



TROPICAL UPDATE



9 AM EDT

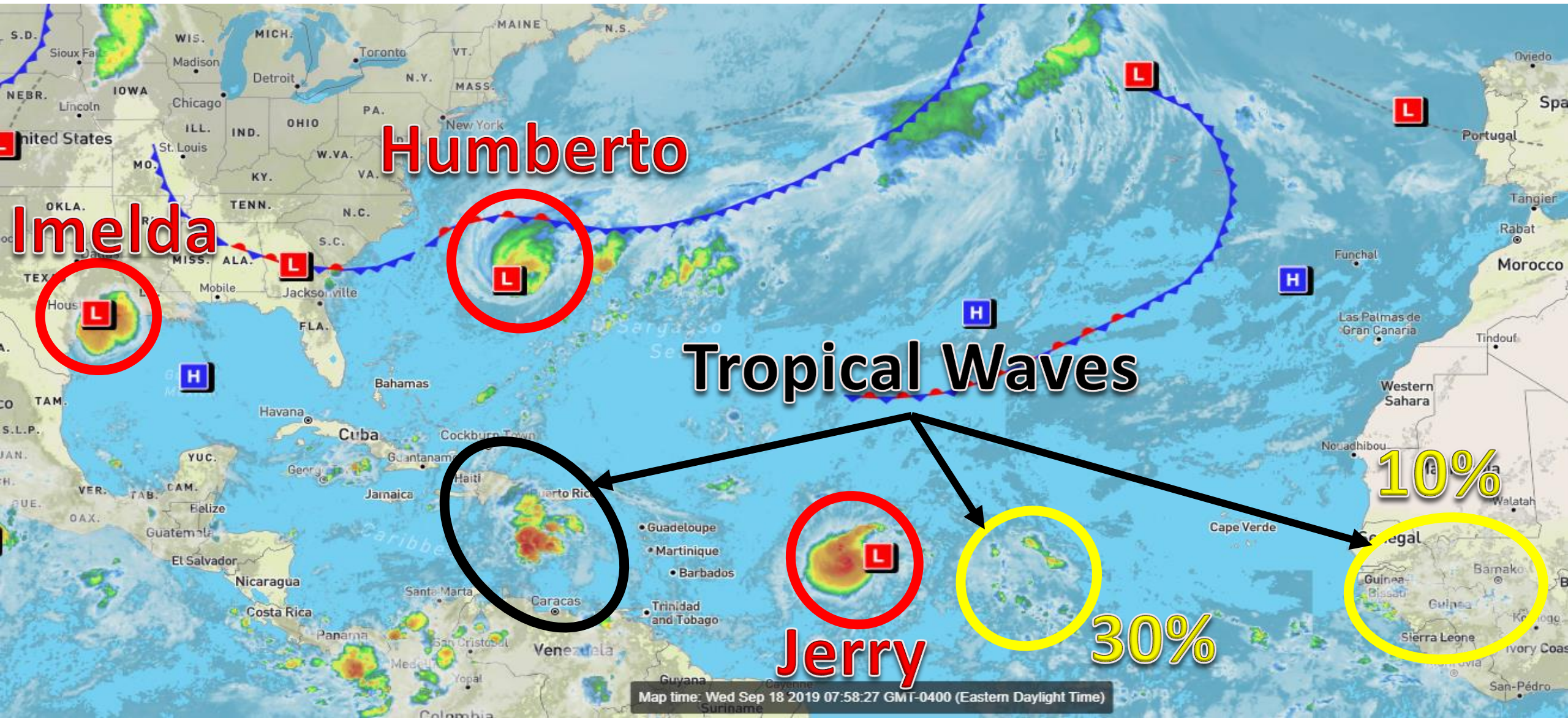
Wednesday, September 18, 2019

Major Hurricane Humberto, Tropical Depression Imelda,
Tropical Storm Jerry, Central Atlantic Wave (30%) &
African Wave (10%)

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



Over the next few days....

Humberto will race to the northeast as it gets picked up by a cold front.

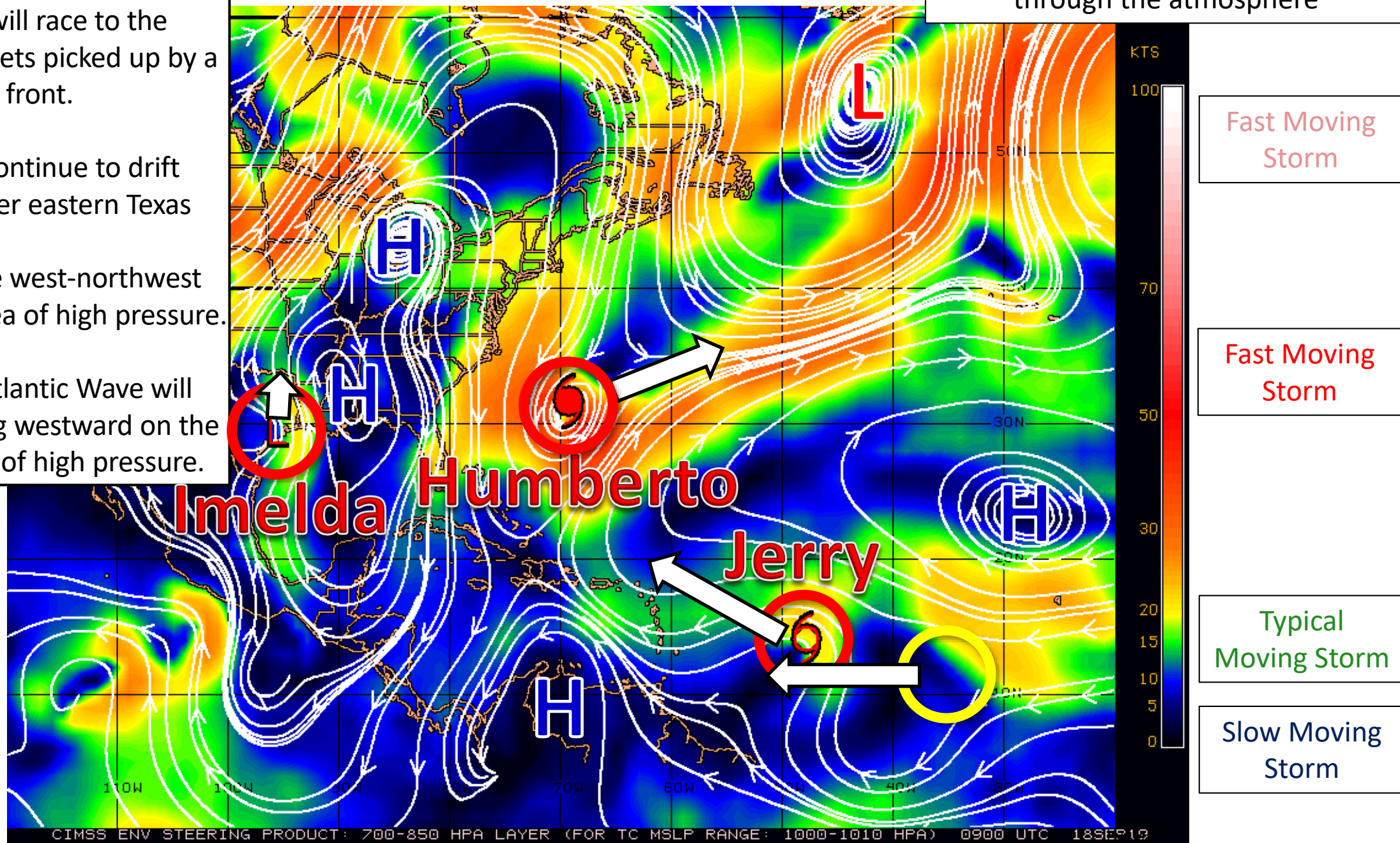
Imelda will continue to drift northward over eastern Texas

Jerry will move west-northwest under a large area of high pressure.

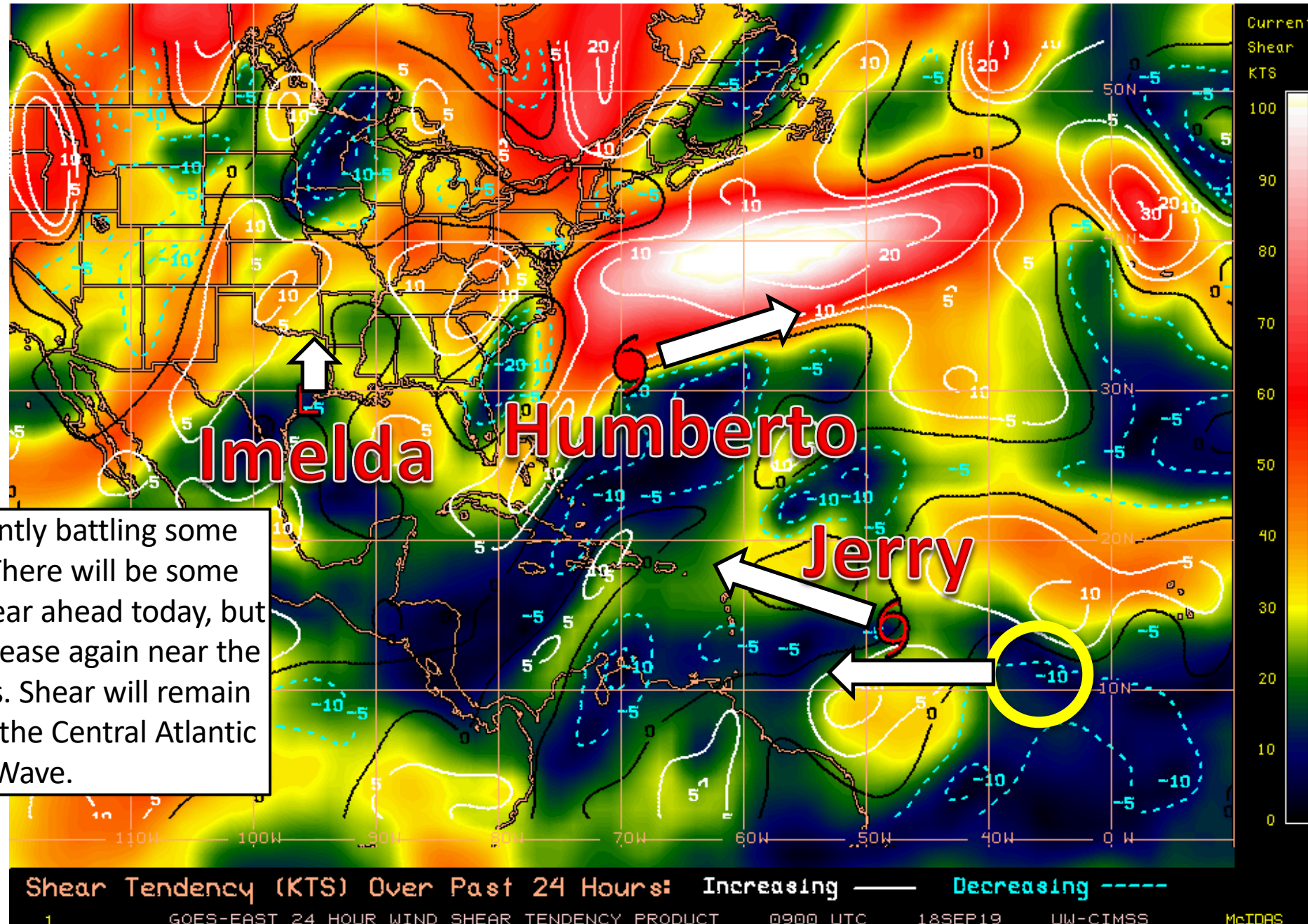
The Central Atlantic Wave will continue moving westward on the southern edge of high pressure.

Steering Currents

Color denotes the movement speed through the atmosphere

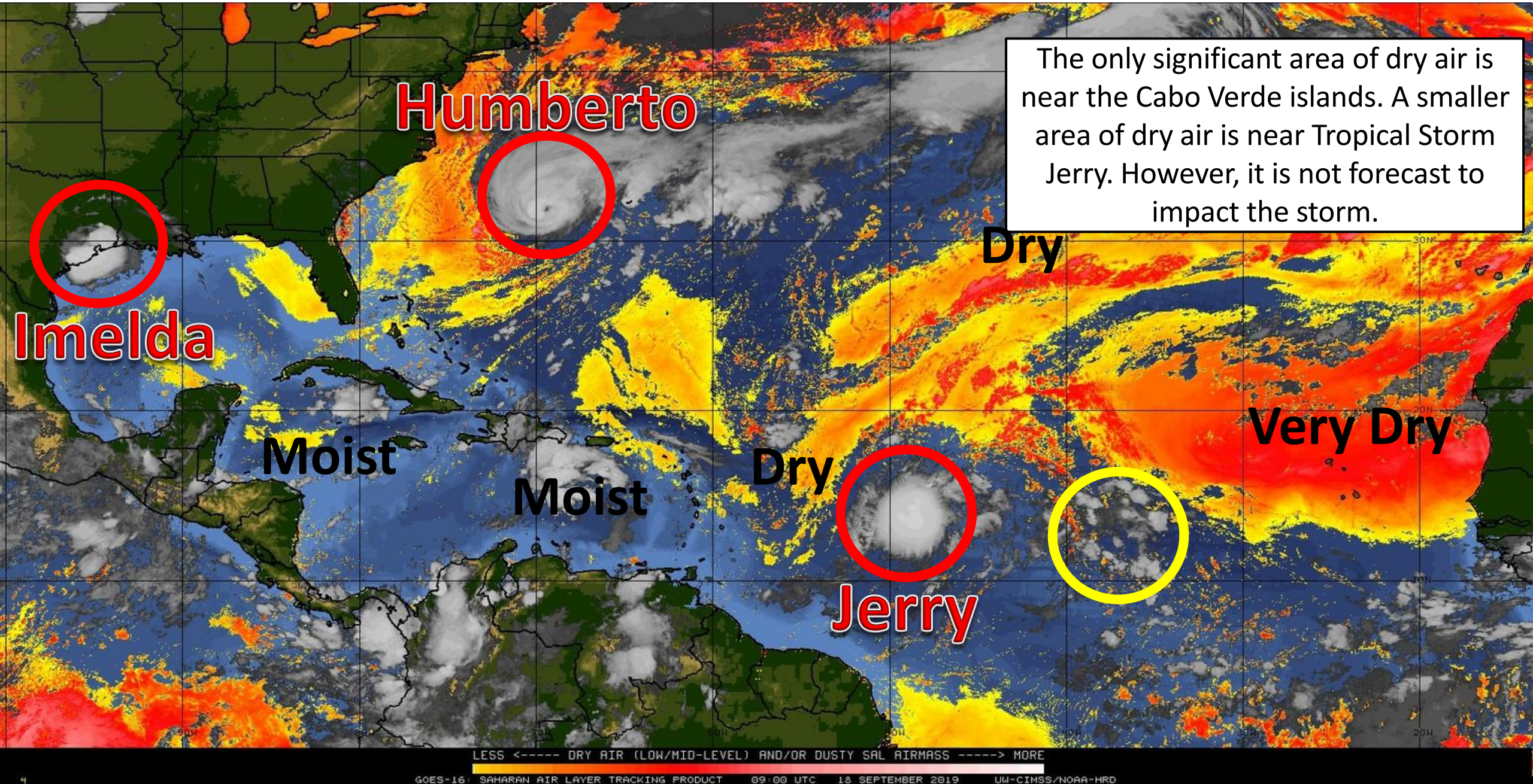


Wind Shear (shaded) and Wind Shear Tendencies (contoured)



Jerry is currently battling some wind shear. There will be some decrease in shear ahead today, but shear may increase again near the Lesser Antilles. Shear will remain high ahead of the Central Atlantic Wave.

Dry Air & Saharan Dust

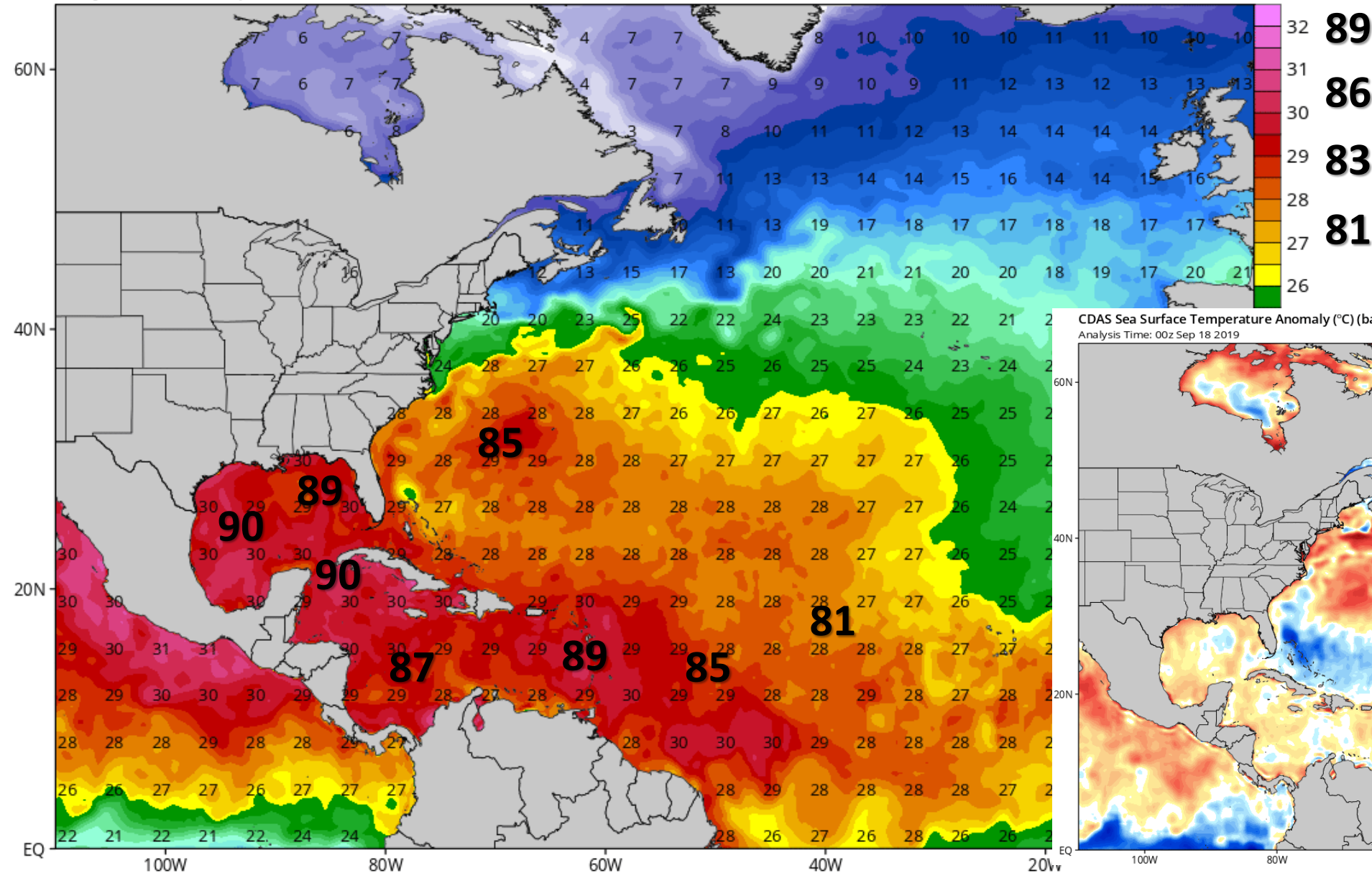


North Atlantic Sea Surface Temperatures and Anomalies

CDAS Sea Surface Temperature (°C)

Analysis Time: 00z Sep 18 2019

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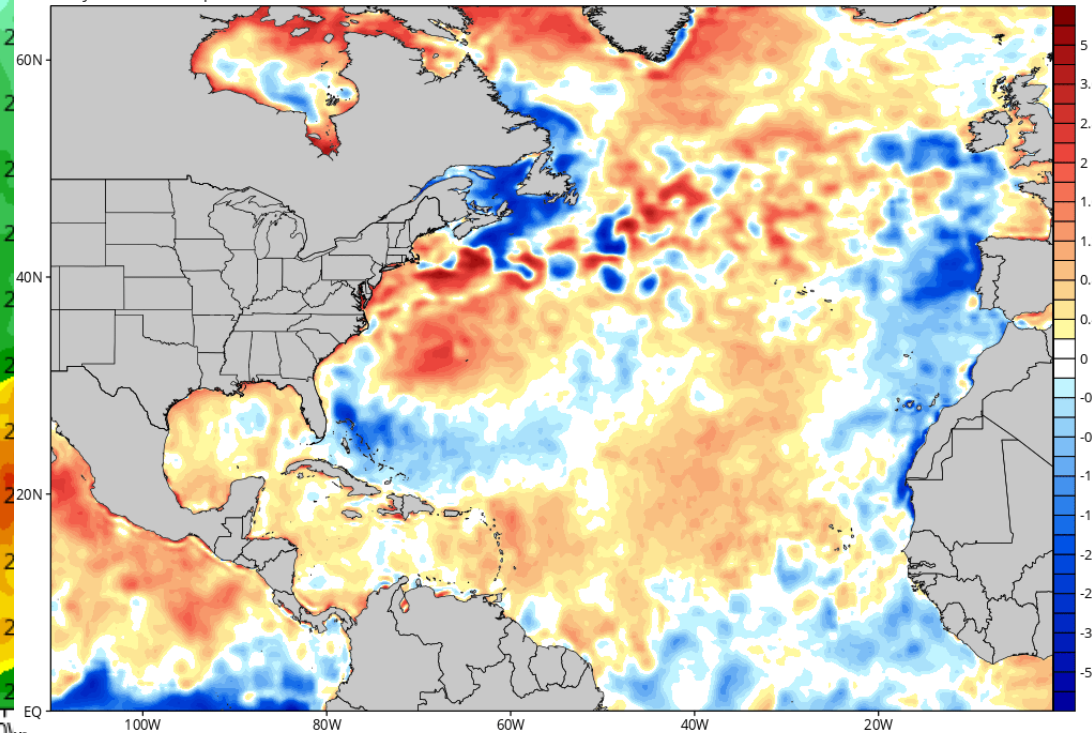


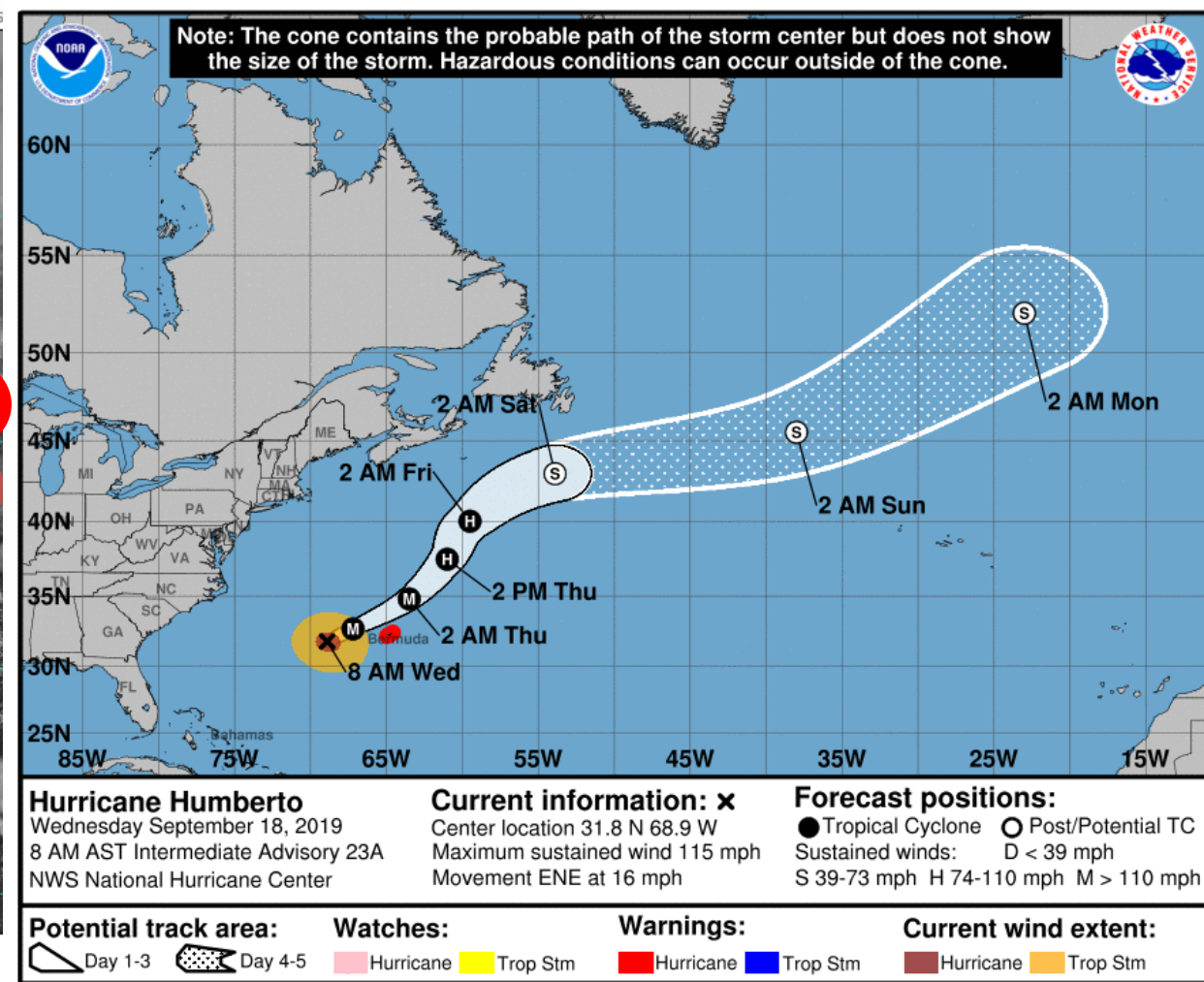
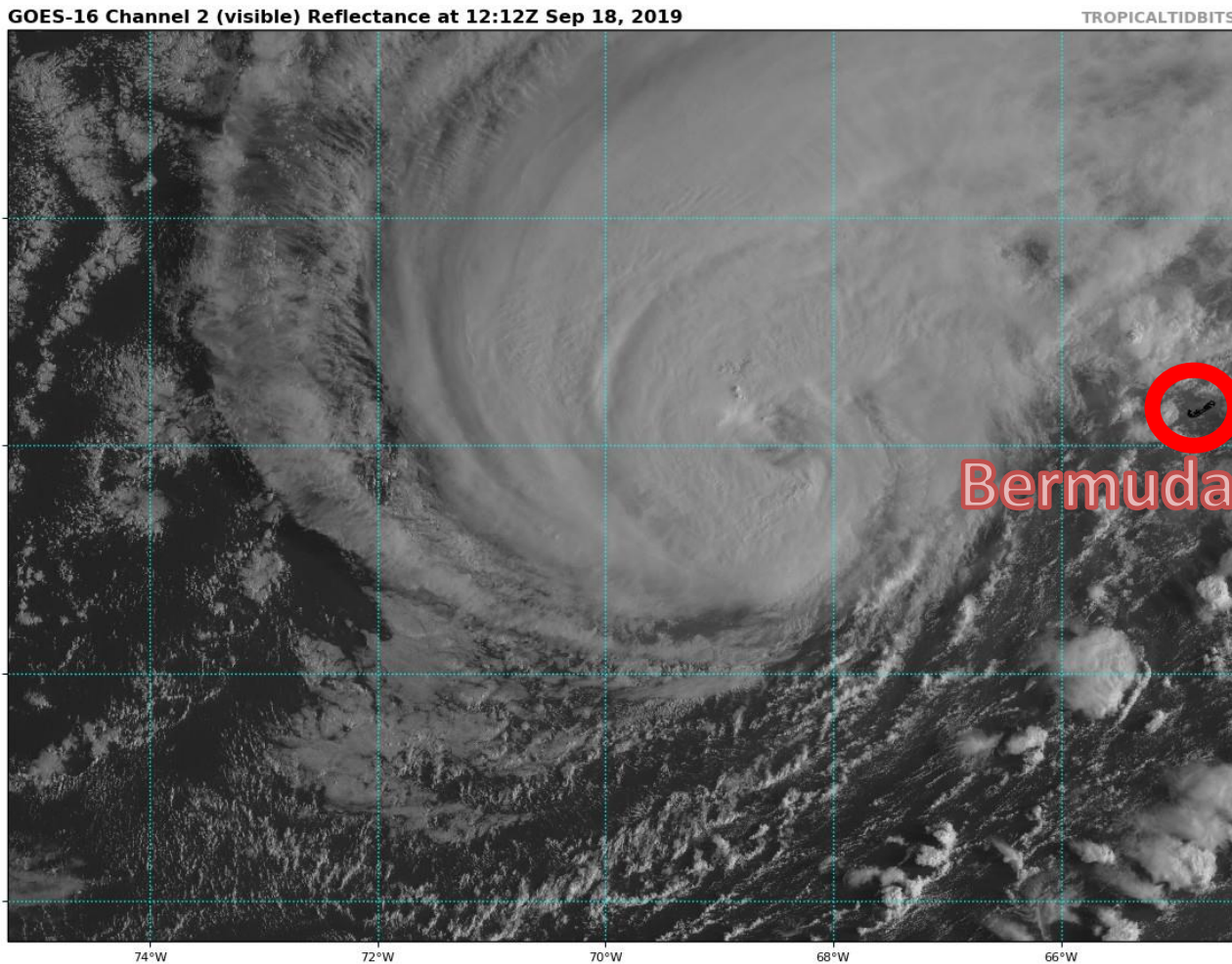
Water temperatures are warm enough to support tropical development basin-wide, and are running a little above normal in the Gulf, Caribbean, and tropical Atlantic. The cooler waters near the Bahamas are as a result of Dorian.

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

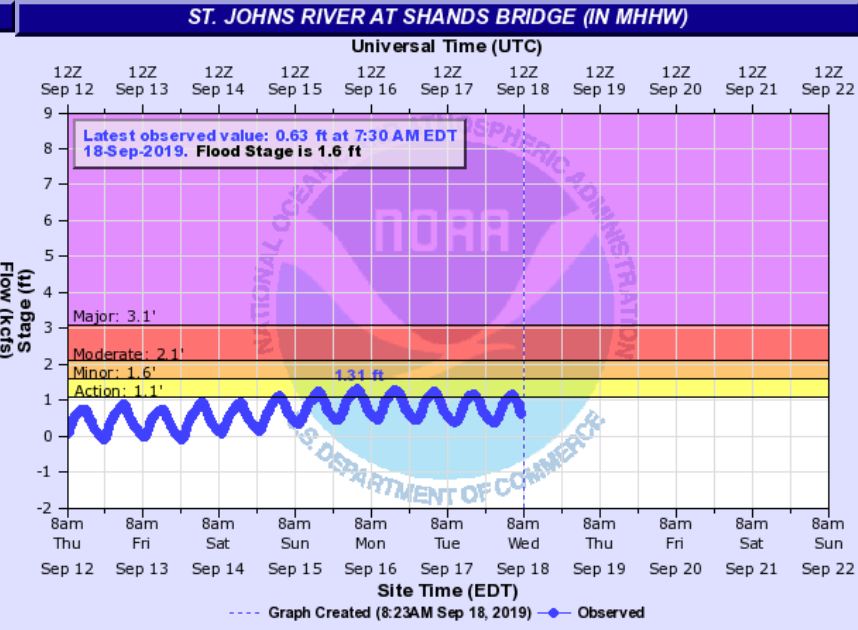
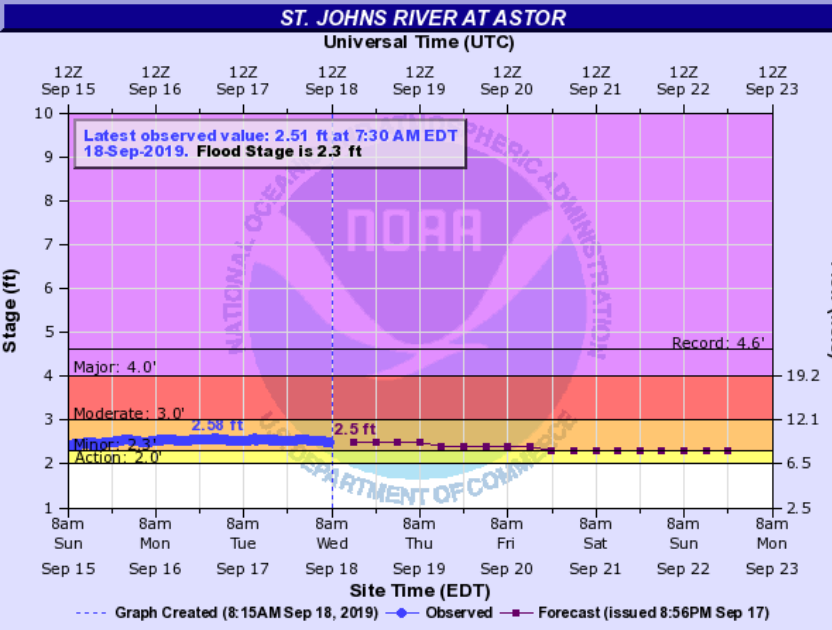
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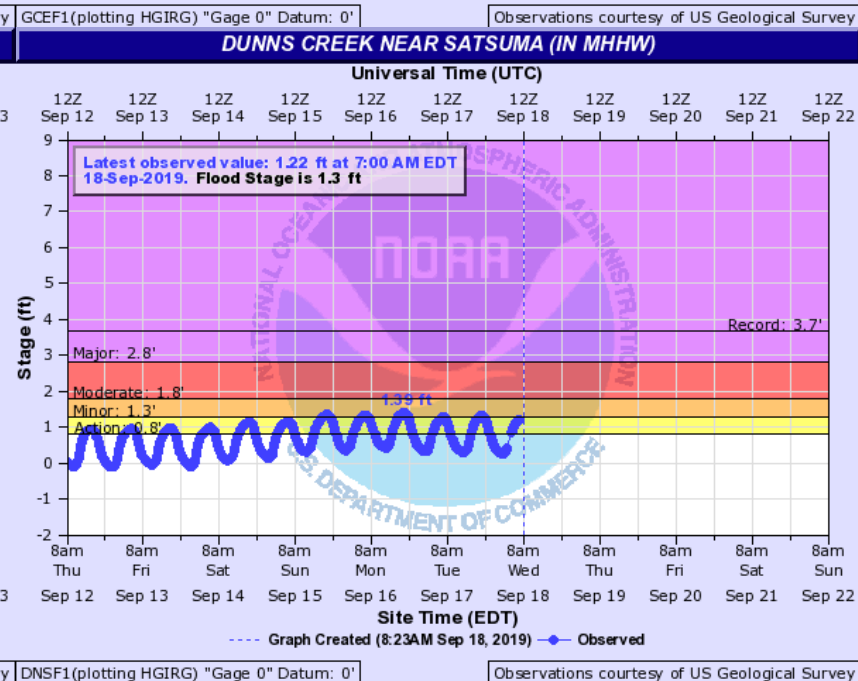
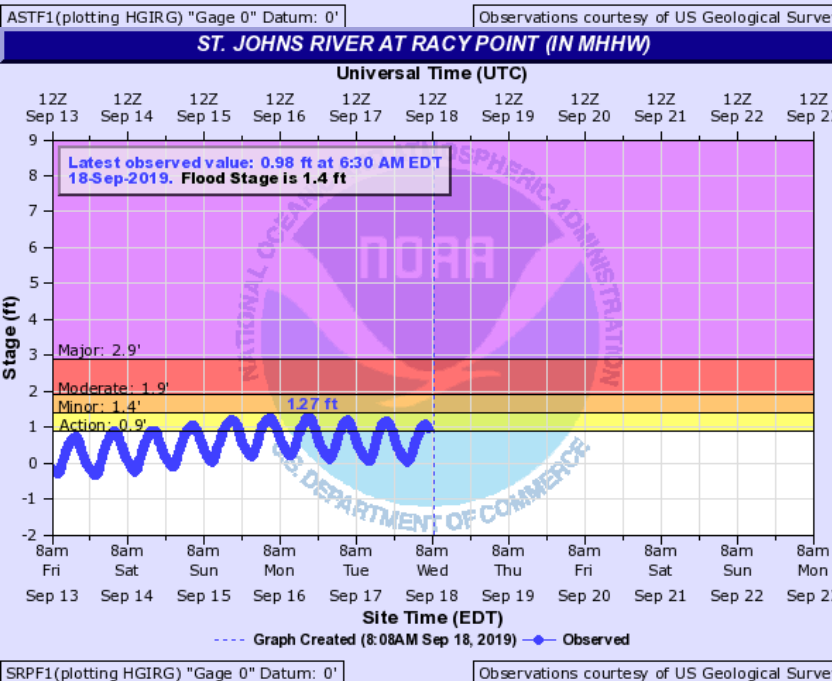
Major Hurricane Humberto: Humberto is currently located about 240 miles west of Bermuda and moving to the east-northeast at 16 mph. Humberto will gradually turn to the northeast and accelerate. Maximum sustained winds have increased to 115 mph (Category 3 Hurricane), and some additional strengthening is possible before weakening begins tonight or Thursday. Humberto will pass near Bermuda later today and tonight.



St. Johns River at Astor

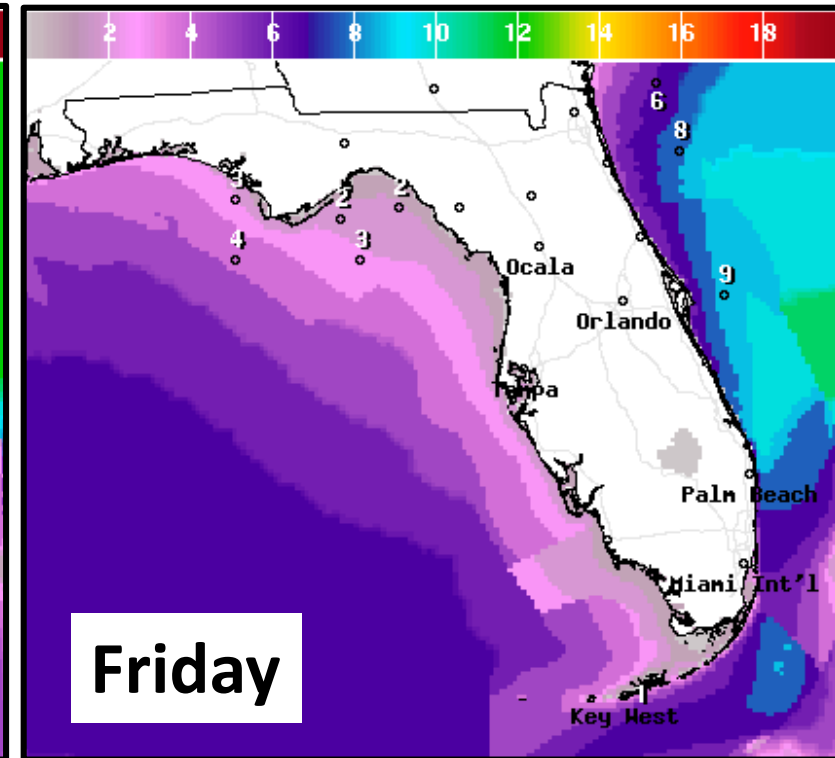
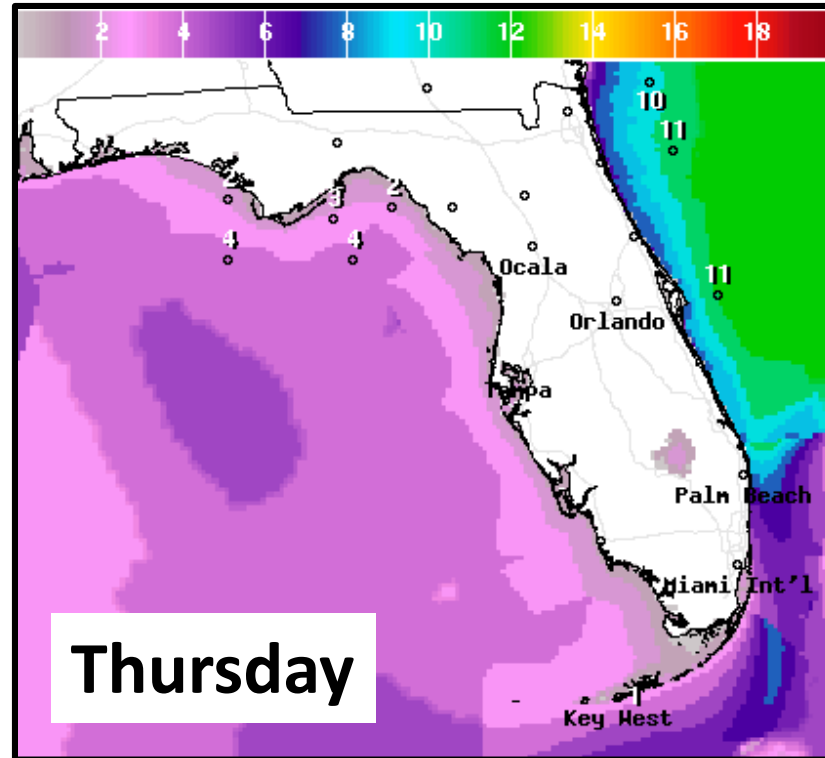
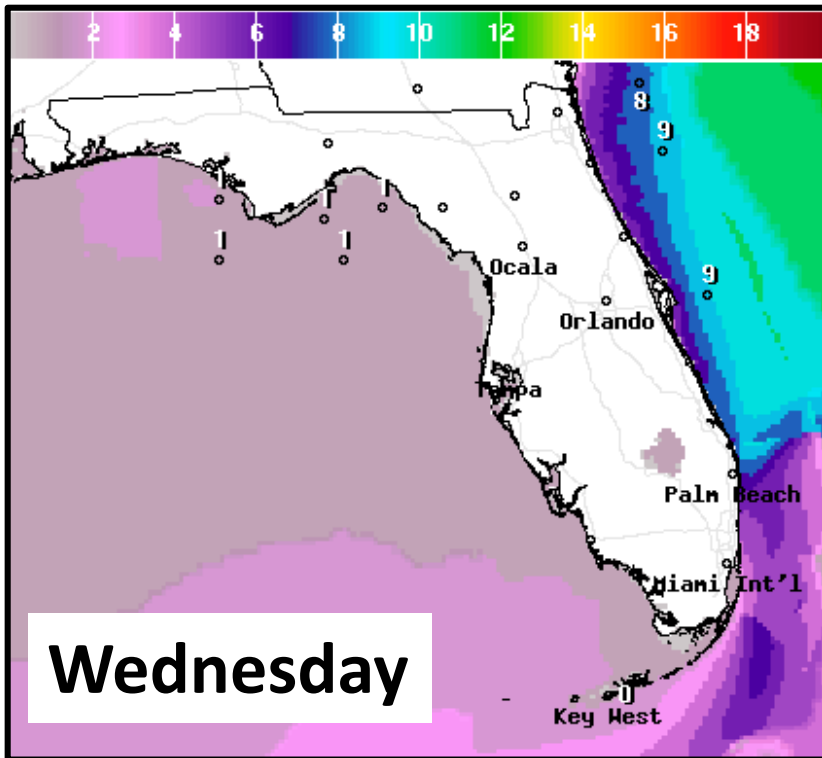
The St. Johns River at Astor remains in minor flood stage. Minor flooding is occurring, and minor flooding is forecast to continue throughout the week.

Minor flooding is also occurring at high tide in the lower St. Johns River today due to the persistent onshore winds of the last few days. Tides are running 1-1.5' above normal, and expected to continue through at least Thursday morning.



Coastal Flood Statement

Forecast Wave Heights



Breaking waves of 4-8' will build late in the week to 6-10'. A cold front will move through on tonight and Thursday reinforcing the breezy onshore winds even after Humberto moves into the North Atlantic. Minor beach erosion is likely to continue.



Breezy winds and swells from Humberto will keep the rip current risk **HIGH** at all Atlantic beaches all week.

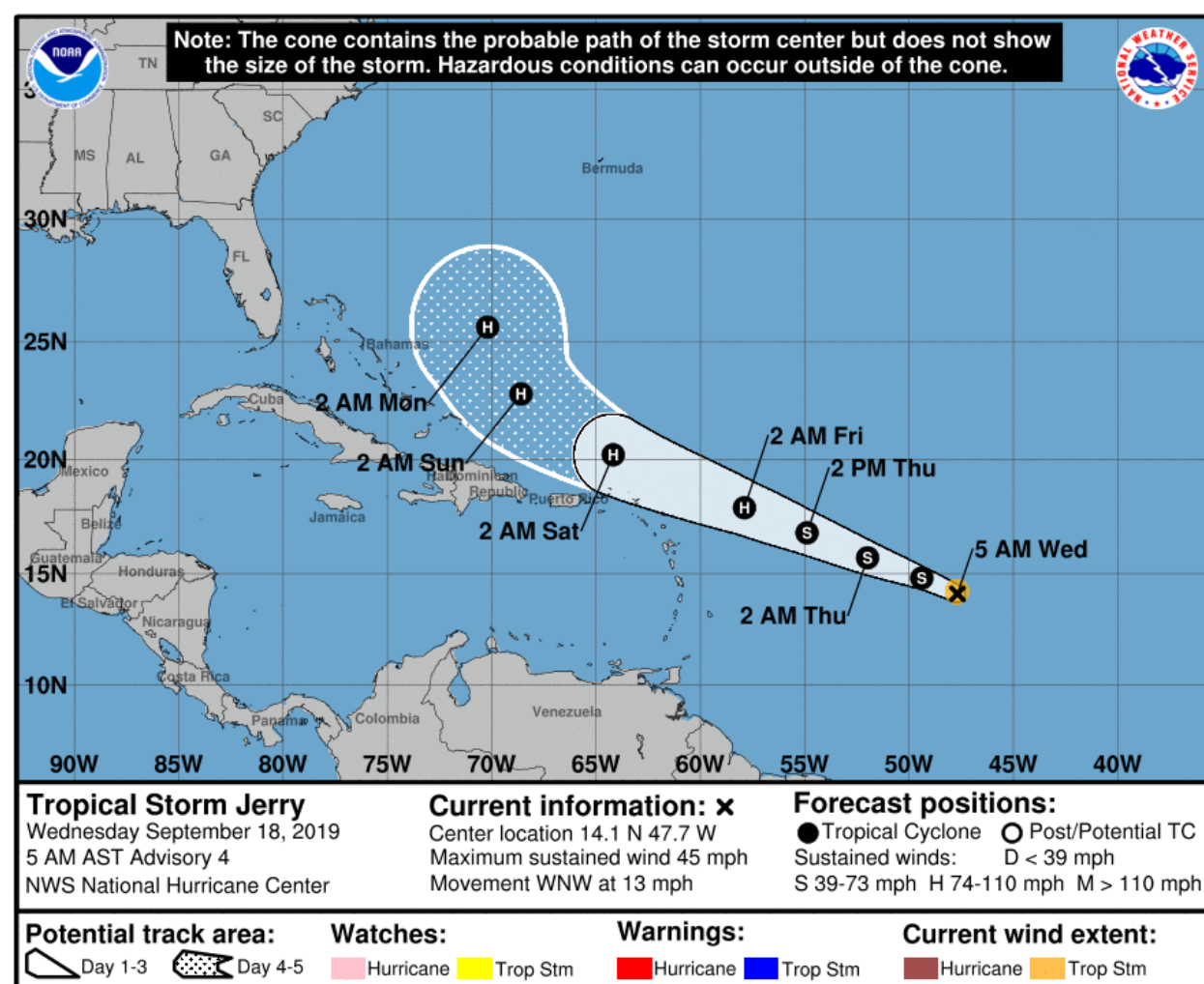
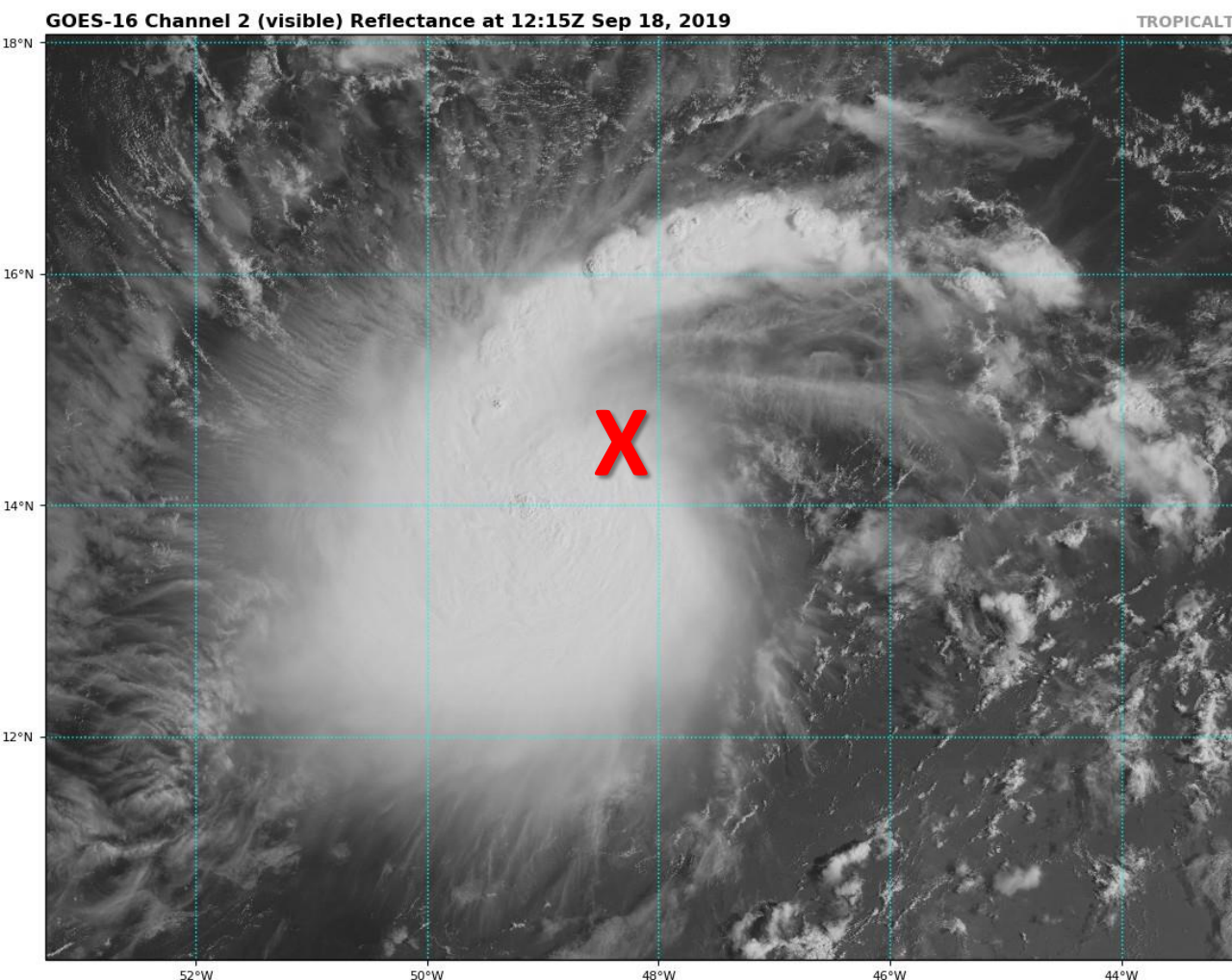
BEACH WARNING FLAGS

BANDERAS DE ADVERTENCIA EN LA PLAYA

-  **Water Closed to Public**
Agua Cerrada al Publico
-  **High Hazard**
High Surf and/or Strong Currents
Peligro Alto, Resaca Alta y/o Corrientes Fuertes
-  **Medium Hazard**
Moderate Surf and/or Currents
Peligro Medio, Resaca Moderada y/o Corrientes Fuertes
-  **Low Hazard**
Calm Conditions, Exercise Caution
Peligro Bajo, Condiciones Calmas, Tenga Cuidado
-  **Stinging Marine Life**
Man o' War, Jellyfish, Stingrays
Animal Marino que causa picaduras Fragata Portuguesa, Medusas, Rayas

Absence of Flags Does Not Assure Safe Waters
La Ausencia de Banderas No Asegura Aguas Seguras



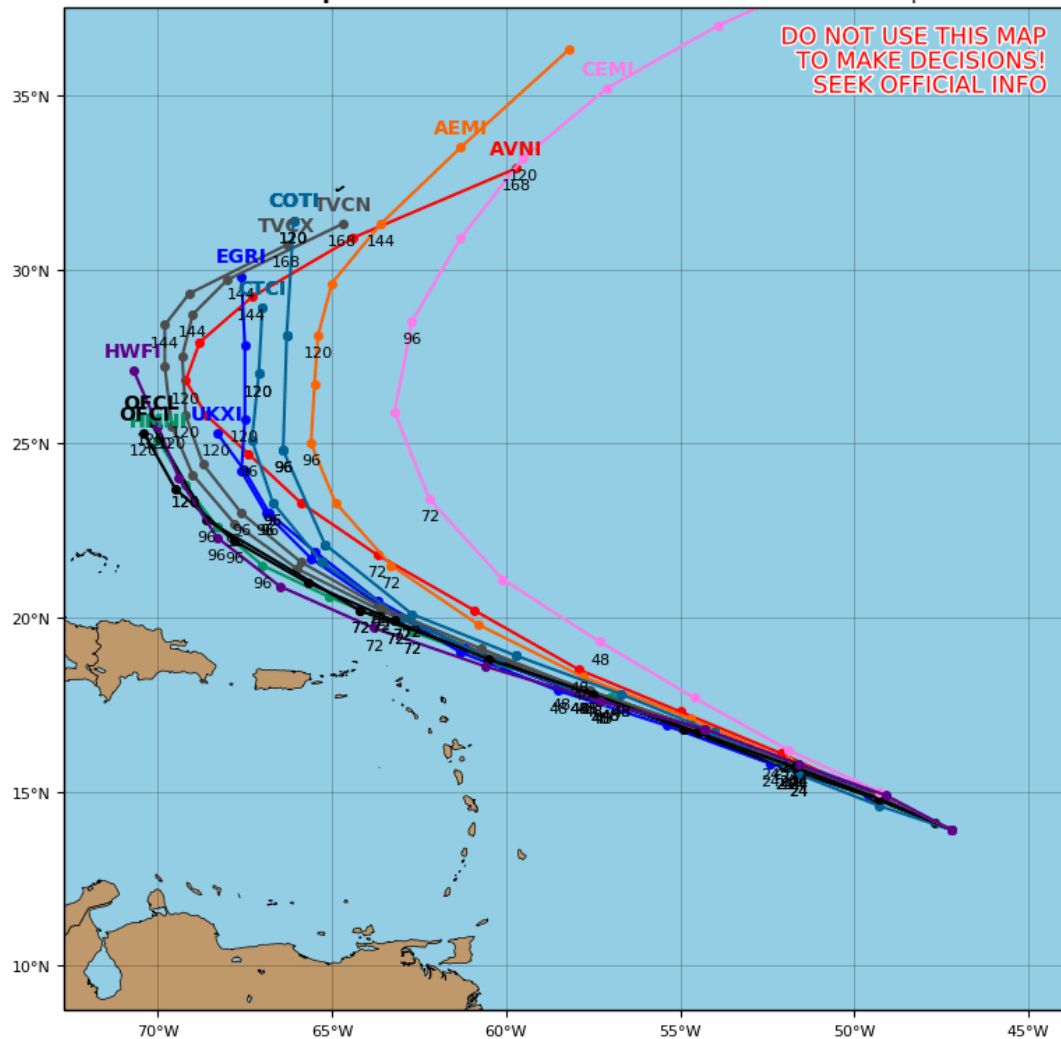


Tropical Storm Jerry: TD #10 strengthened overnight and has become the 10th named storm of the season. Tropical Storm Jerry is located about 960 miles east of the Leeward Islands, moving west-northwest at 13 mph. This general motion with a slight increase in forward speed is expected over the next few days. Maximum sustained winds have increased to near 45 mph, and further strengthening is forecast. Jerry could become a hurricane Thursday night or Friday. Wind shear is displacing a lot of the storms to the southwest of the center (red X). Shear may relax somewhat today before increasing again near the Lesser Antilles.

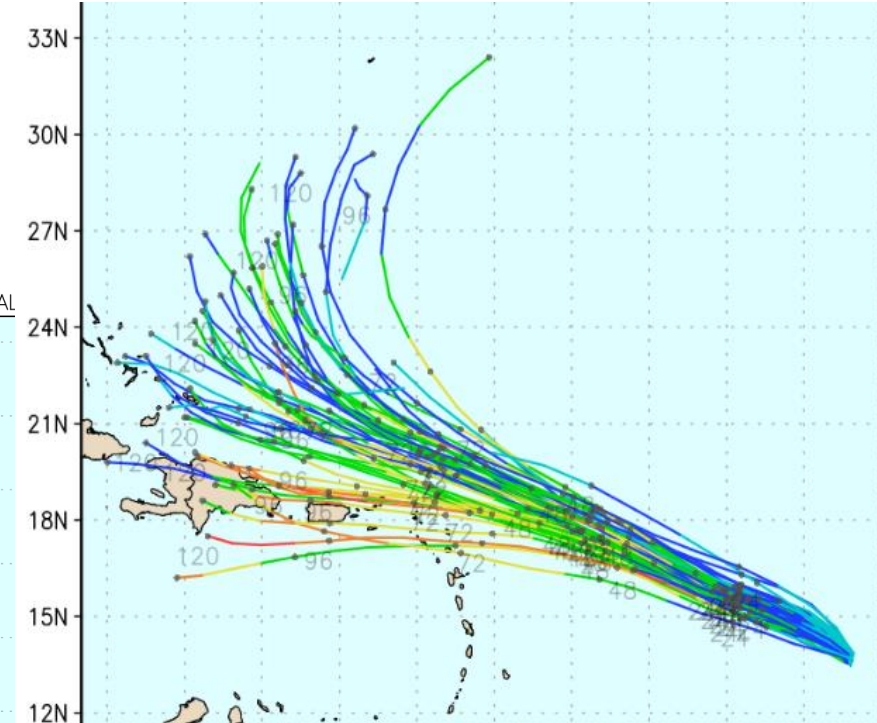
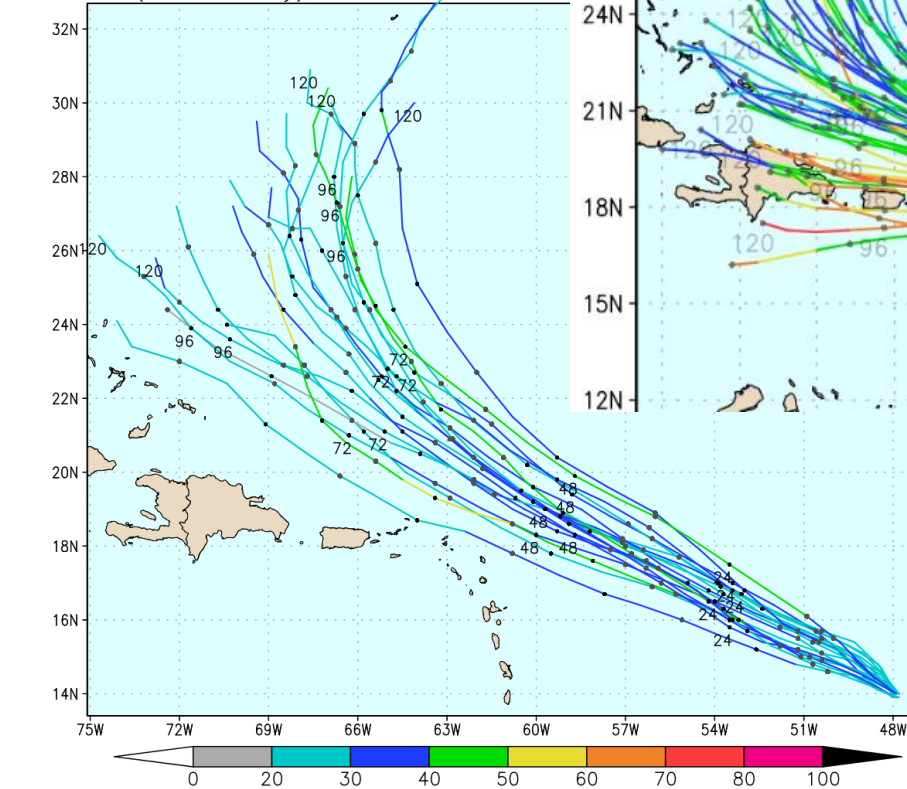
Tropical Storm JERRY Model Track Guidance

Initialized at 06z Sep 18 2019

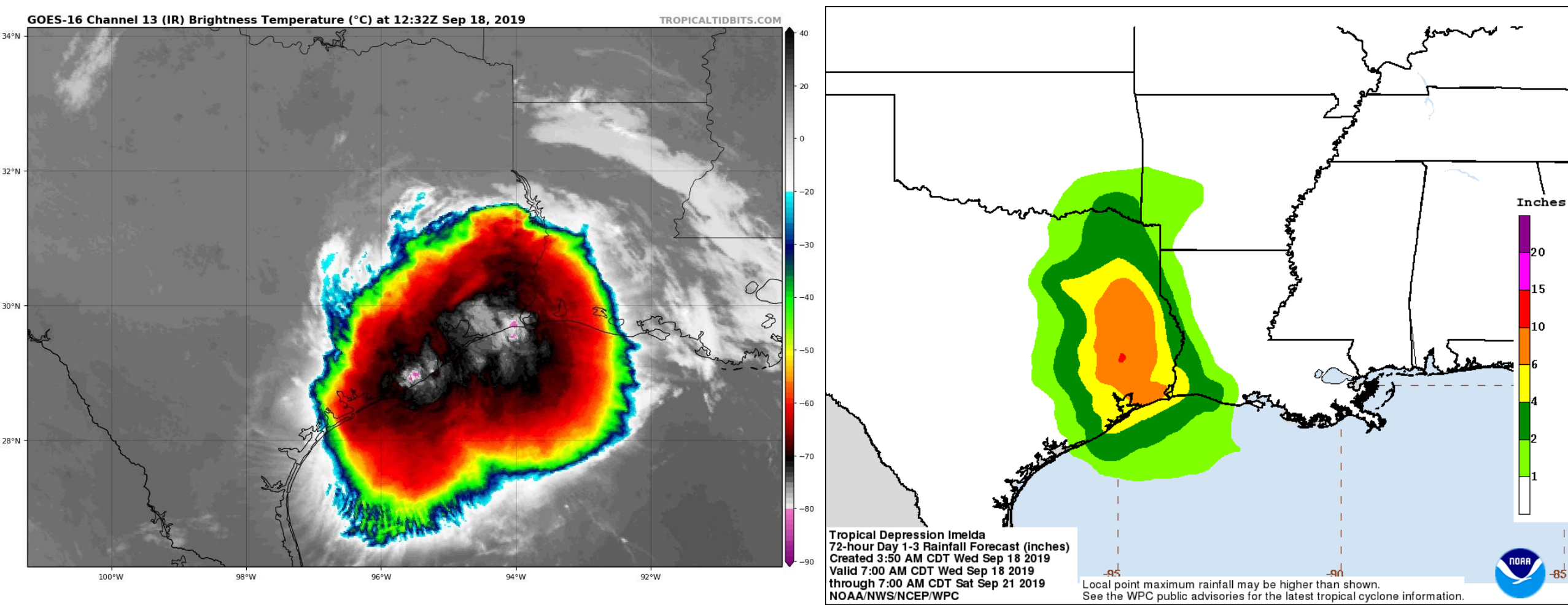
Levi Cowan - tropicaltidbits.com



GFS Ens. (0-120h only), init: 2019091806, AL



Models are in good agreement on track until days 4 and 5 when Tropical Storm Jerry is near and north of the Lesser Antilles. A turn towards the north may occur by day 5, but there remains some uncertainty as to where that turn occurs.

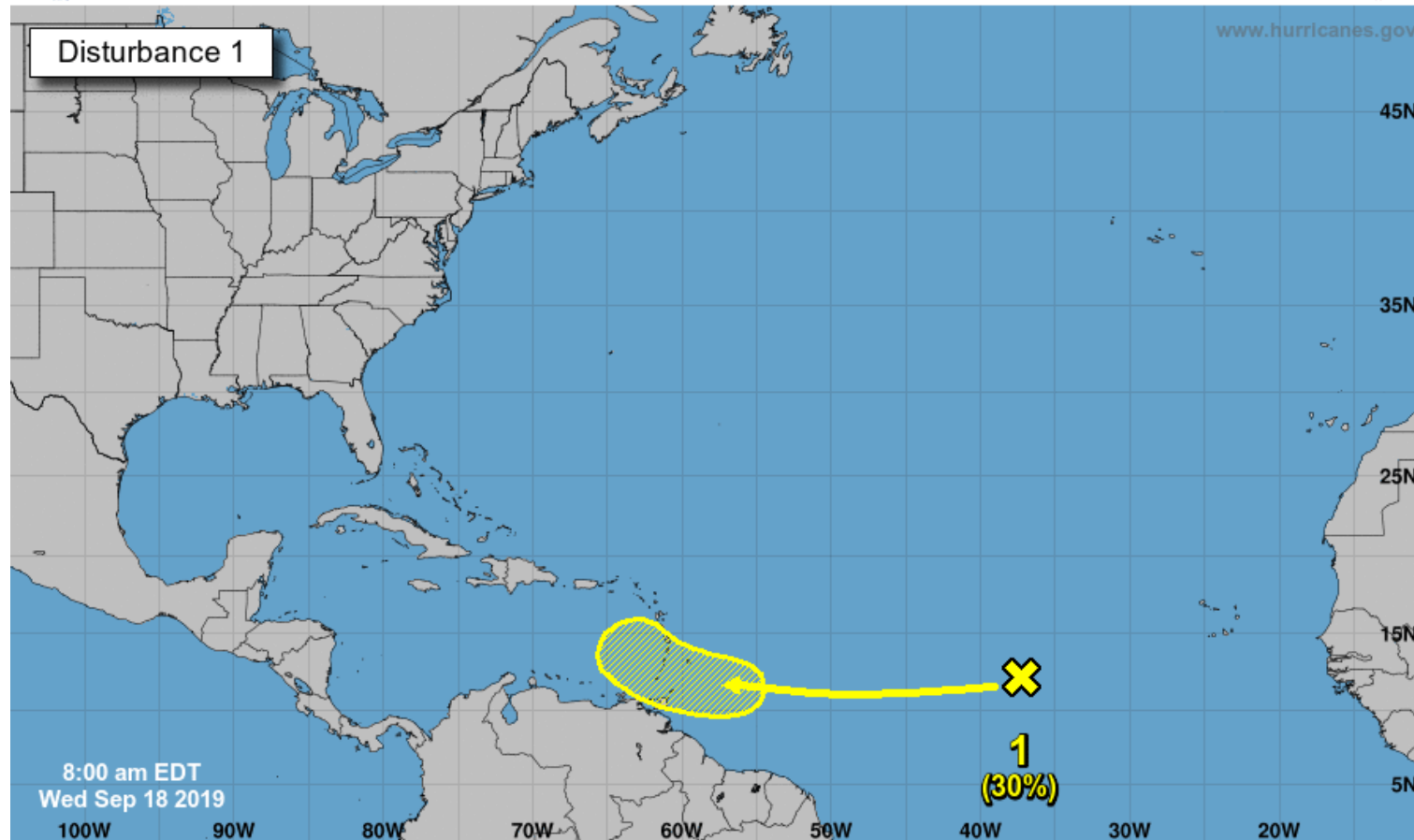


Tropical Depression Imelda: Imelda moved inland yesterday over eastern Texas. The National Hurricane Center has issued its final advisory on Imelda with the Weather Prediction Center taking over advisories. Imelda will continue to produce widespread heavy rain over eastern Texas over the next couple days which will lead to flash flooding.



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

African Wave: A tropical wave located several hundred miles west of the Cabo Verde Islands is producing disorganized cloudiness and showers. Some development of this system is possible over the weekend while the system approaches the Windward Islands or across the southeastern Caribbean Sea early next week.

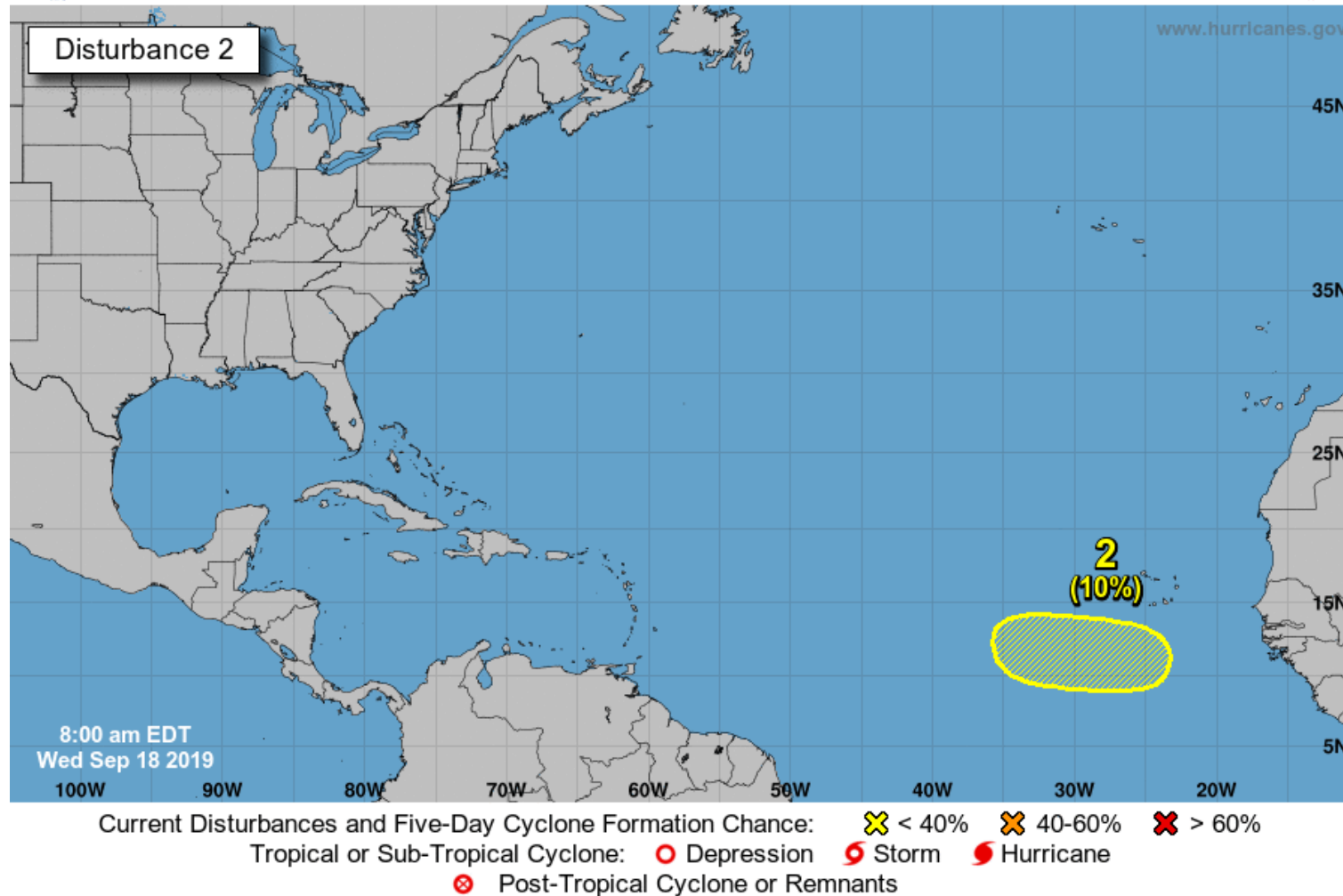
* Formation chance through 48 hours...low...near 0 percent.

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



Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



African Wave: A tropical wave is forecast to move off of the west coast of Africa on Thursday. Development, if any, is expected to be slow to occur through early next week while the system moves generally westward at 10 to 15 mph.

* Formation chance through 48 hours...low...near 0 percent.

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

Summary

Major Hurricane Humberto

- Humberto is located about 240 miles west of Bermuda, and is moving east-northeast at 16 mph. A gradual turn toward the northeast with an increase in forward speed is expected over the next several days.
- Maximum sustained winds have increased to 115 mph (Category 3). Slight strengthening is still possible, but weakening is expected to begin tonight and Thursday.
- This hurricane will pass near Bermuda later today and tonight.

Tropical Depression Imelda

- Imelda is located inland over eastern Texas and is producing heavy rainfall and flash flooding over eastern Texas and far western Louisiana. The NHC is no longer issuing advisories on Imelda.

Tropical Storm Jerry

- TD #10 strengthened into Tropical Storm Jerry overnight. Maximum sustained winds have increased to near 45 mph. Continued gradual strengthening is forecast over the next several days. Jerry is forecast to become a hurricane Thursday night or Friday.
- Jerry is located about 960 miles east of the Lesser Antilles, moving west-northwest at 13 mph. This motion with a slight increase in forward speed is expected over the next few days.
- There is still some uncertainty in days 4-5 as to where and when Jerry will make its northward turn.

Central Atlantic Wave

- A tropical wave several hundred miles west of the Cabo Verde Islands could develop this weekend near the Windward Islands or the southeast Caribbean Sea early next week.
- NHC gives it a near 0% (low) chance over the next 48 hours and a 30% (low) chance of development from days 3-5.

African Wave

- A tropical wave will move off the coast of Africa on Thursday. Some gradual development is possible this weekend in the tropical Atlantic.
- NHC gives it a near 0% (low) chance over the next 48 hours and a 10% (low) chance of development from days 3-5.

Florida Outlook:

- High surf and dangerous rip currents are expected at Atlantic beaches for much of this week thanks to Humberto and a cold front that will move through on Thursday.
- Minor coastal flooding at high tide in the St. Johns River and its tributaries through Thursday morning.
- There will be no impacts to Florida from Imelda.
- It is too early to determine if there will be any impacts from Tropical Storm Jerry or the other two waves. The systems should be monitored.

The next tropics packet will be issued Thursday morning. For the latest information on the tropics, please visit the National Hurricane Center website at www.hurricanes.gov. For the latest flood updates, see the latest products from your local National Weather Service, the [Southeast River Forecast Center](#), and the [Weather Prediction Center](#).



TROPICAL UPDATE



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Florida Division of Emergency Management

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