



Weeks 2-3 Global Tropics Hazards Outlook

9/20/2022

Brad Pugh

NWS / NCEP / Climate Prediction Center

Synopsis of Climate Modes:

ENSO: (Sep 8, 2022 Update) *next update on Thursday, Oct 13th*

- ENSO Alert System Status: [La Niña Advisory](#)
- La Niña is favored to continue through Northern Hemisphere winter 2022-23, with a 91% chance in Sep-Nov, decreasing to a 54% chance in Jan-Mar 2023.

MJO and other subseasonal tropical variability:

- The MJO weakened during early September as it destructively interfered with the La Niña.
- A remnant MJO is forecast to propagate eastward over the Western Hemisphere during the next two weeks.
- This large-scale environment is expected to be favorable for tropical cyclone development across the Atlantic basin through the beginning of October.

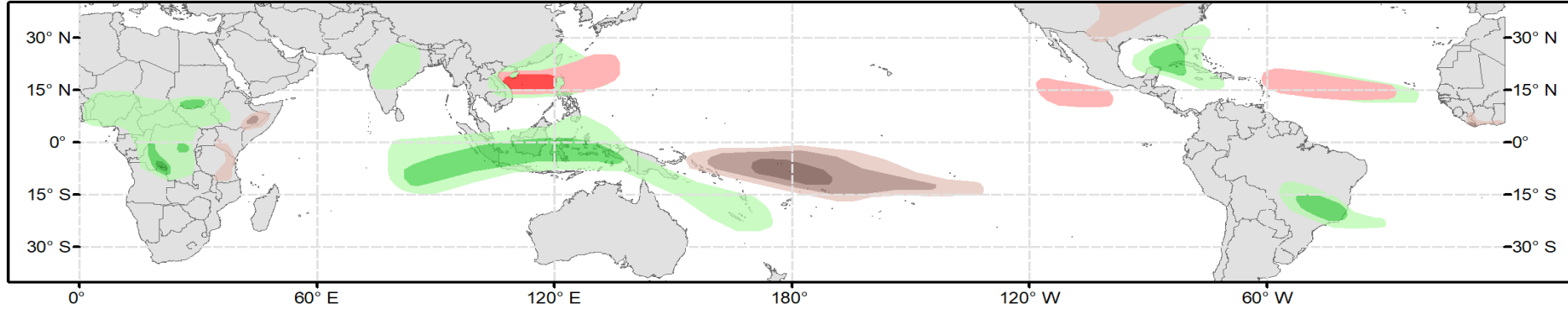
GTH Outlook:



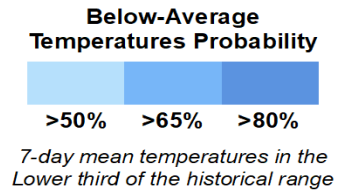
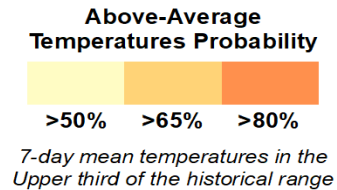
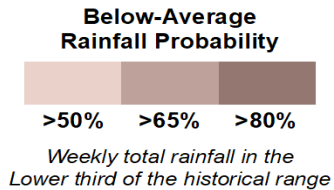
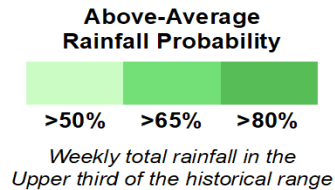
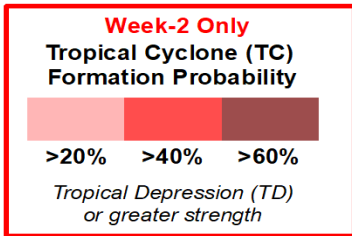
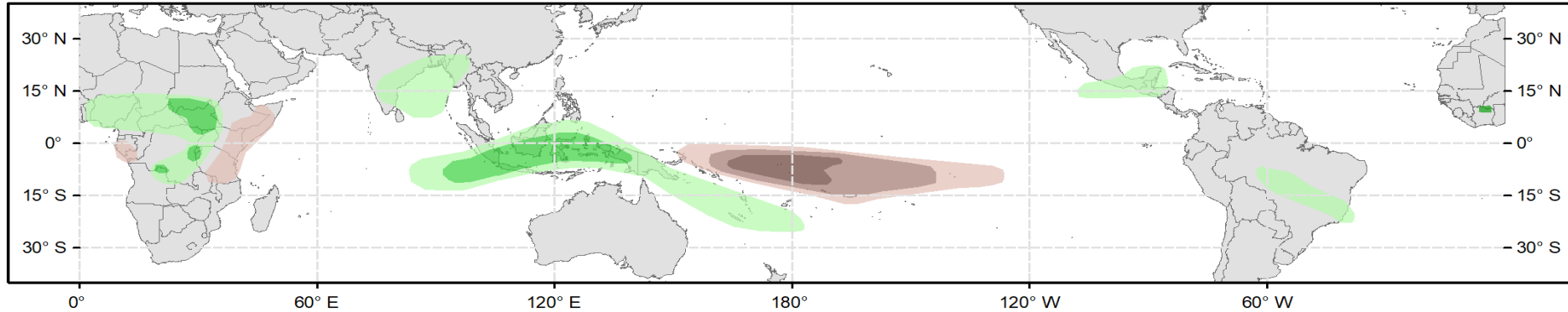
Global Tropics Hazards Outlook Climate Prediction Center



Week 2 - Valid: Sep 28, 2022 - Oct 04, 2022



Week 3 - Valid: Oct 05, 2022 - Oct 11, 2022

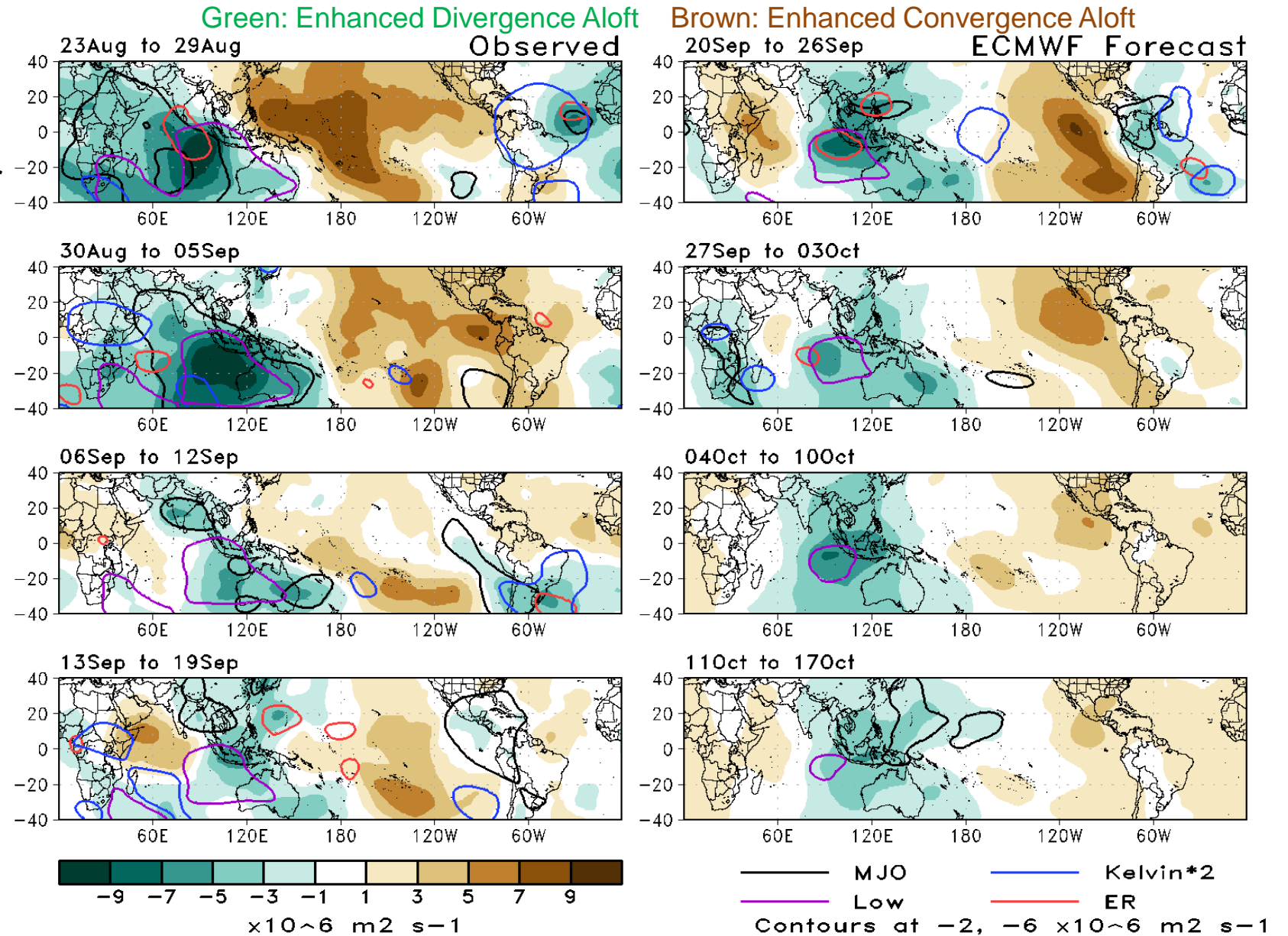


Issued: 09/20/2022
Forecaster: Pugh

This product is updated once per week and targets broad scale conditions integrated over a 7-day period for US interests only. Consult your local responsible forecast agency.

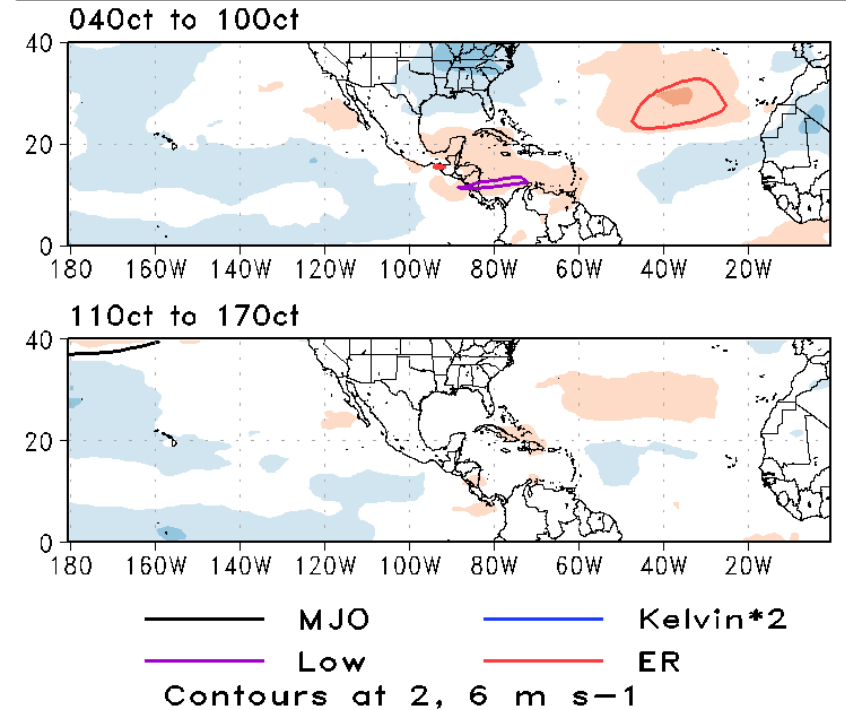
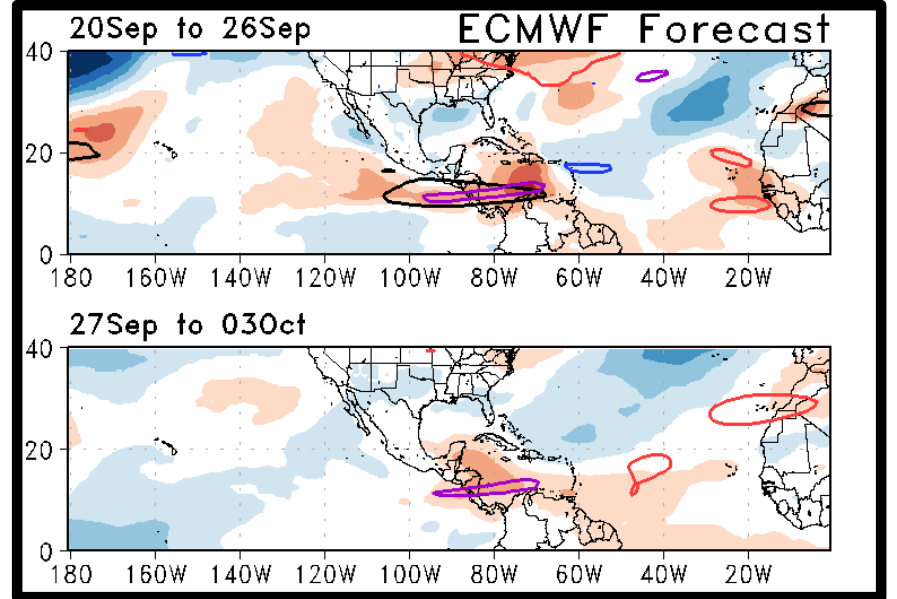
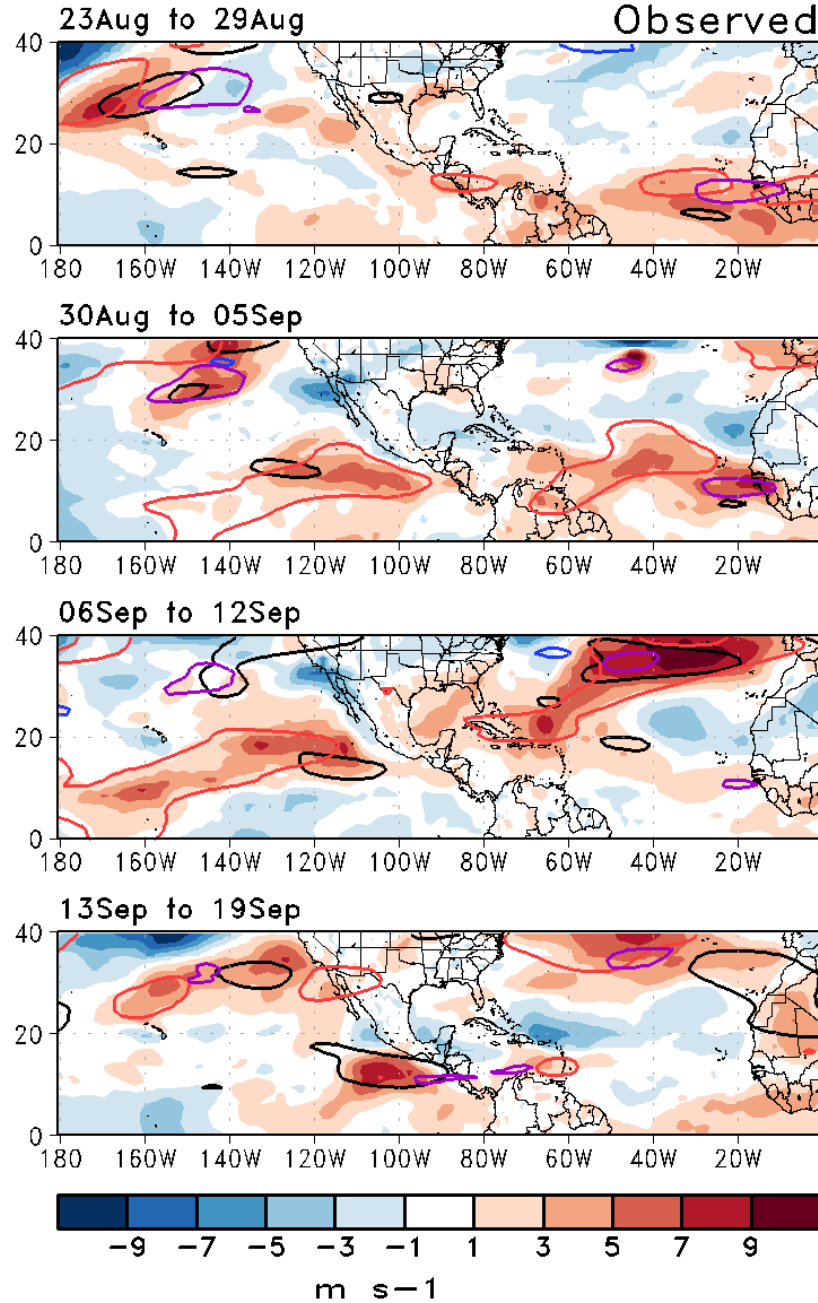
200-hPa Velocity Potential Anomaly Maps:

- For the Sep 13-19 observation period, note the MJO signal over the East Pacific and Americas.
- During the next two weeks, this remnant MJO signal shifts eastward to Africa.

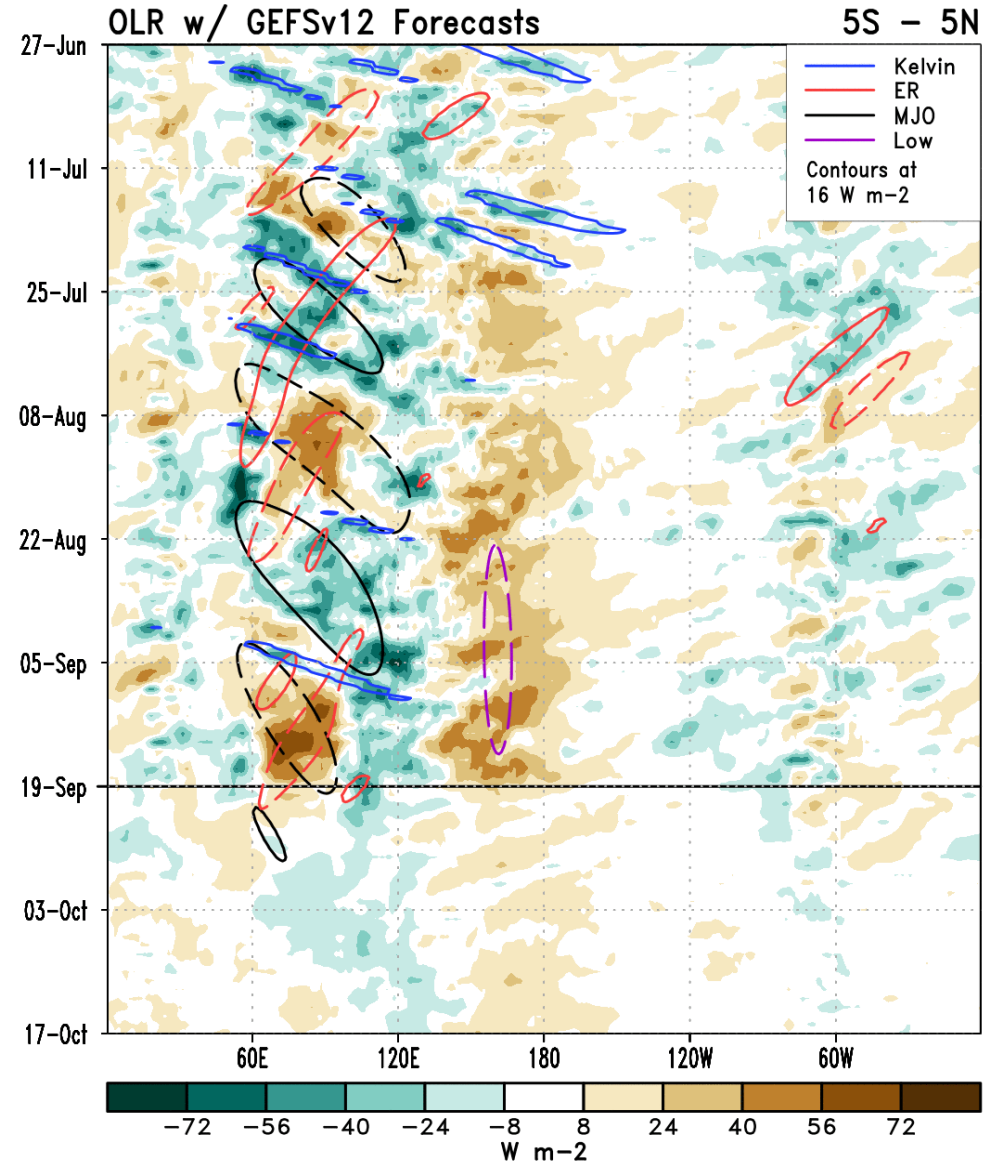
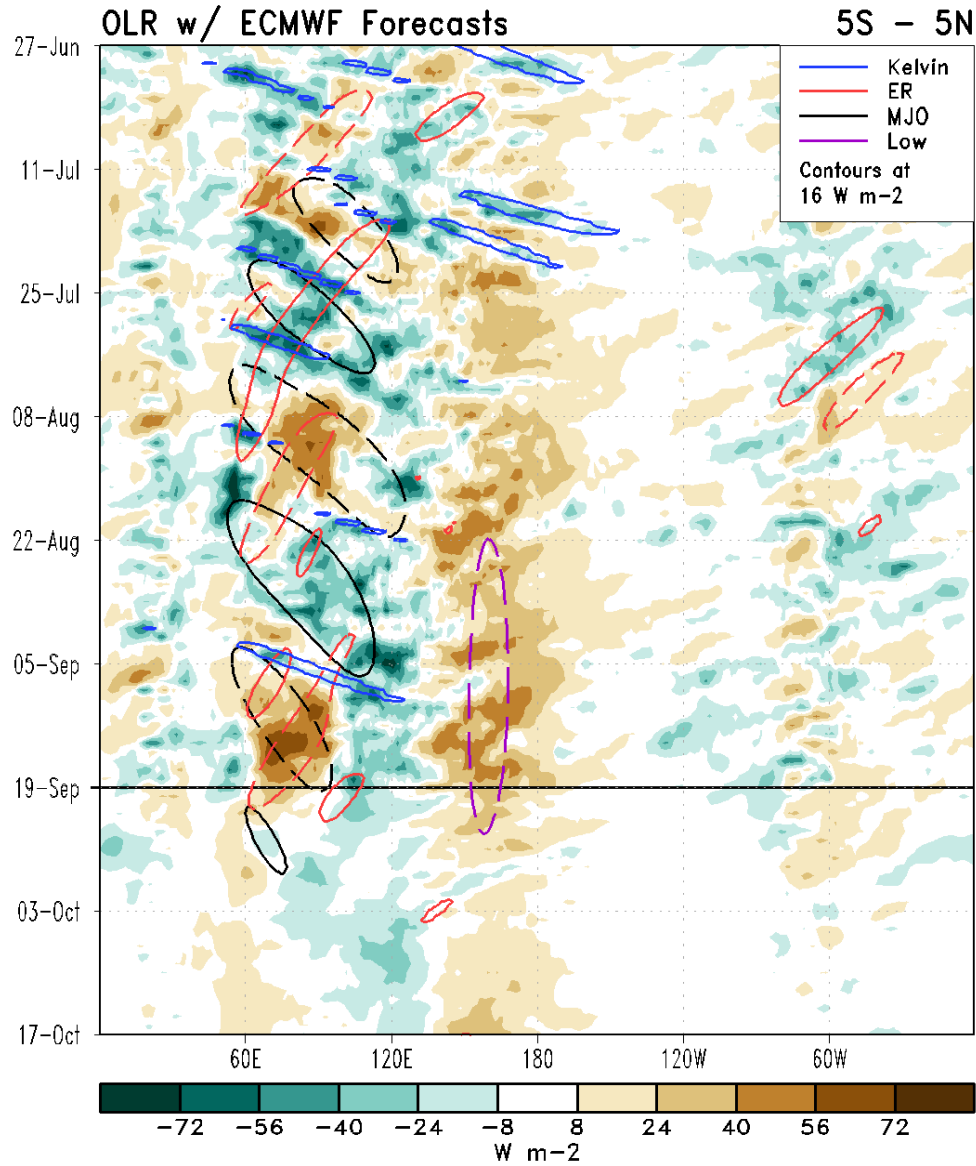


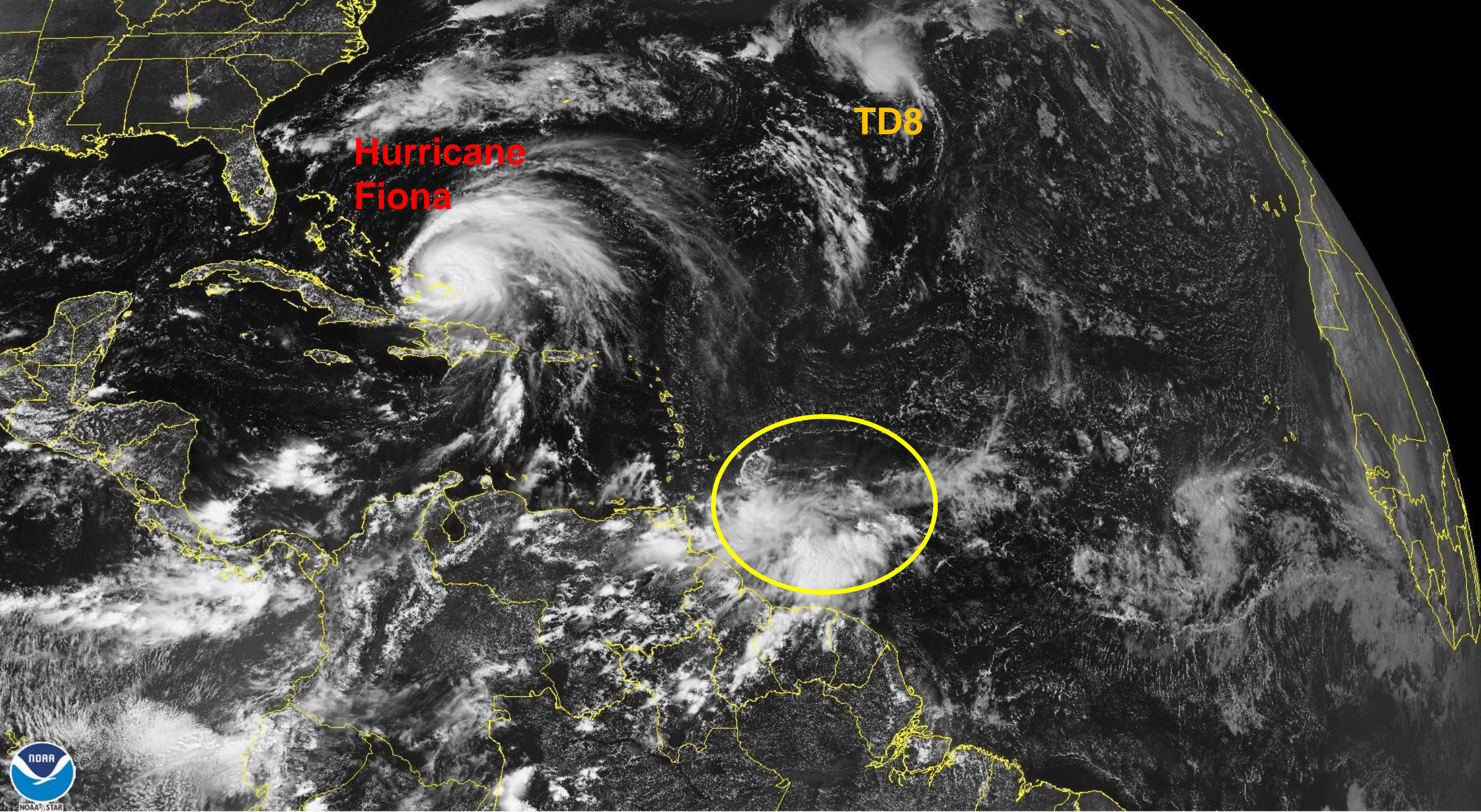
ECMWF model depicts westerly (red) low-level wind anomalies which reduces wind shear: East Pacific and parts of the tropical Atlantic

UWND850 7-Day Means



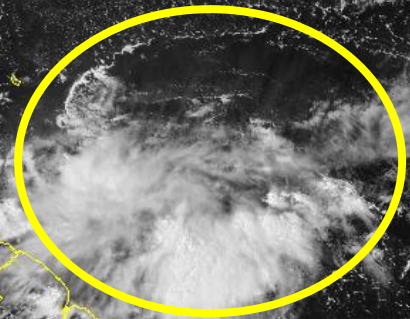
Outgoing Longwave Radiation (OLR) Anomaly Time/Lon Plots:



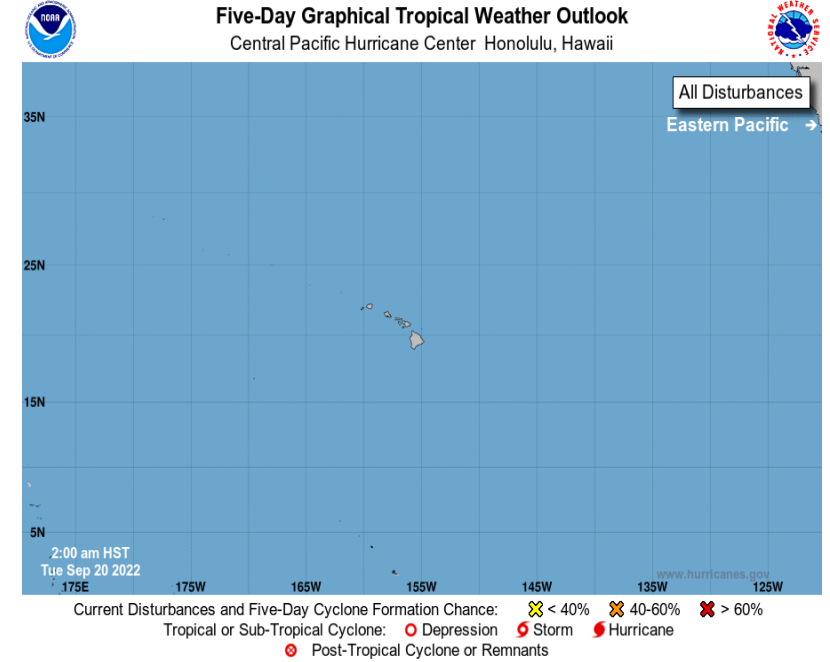
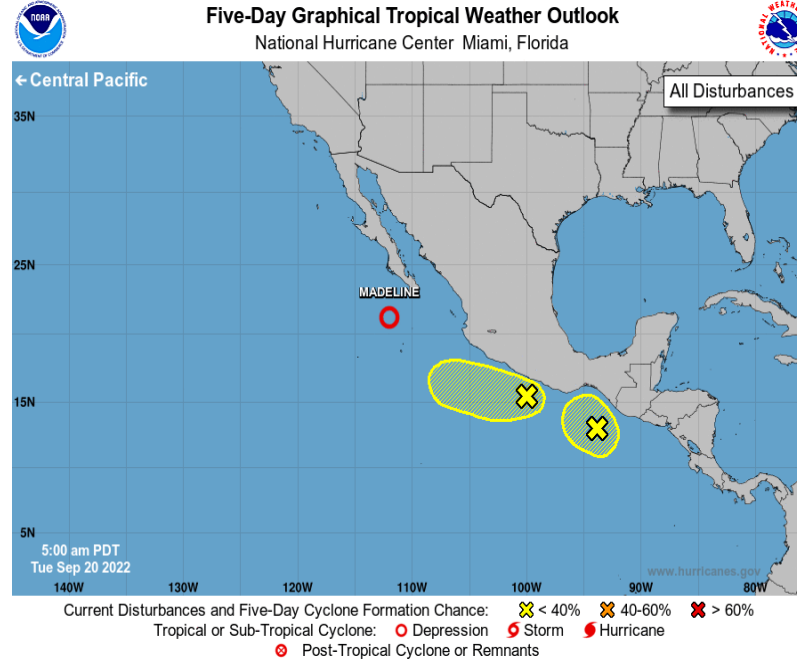
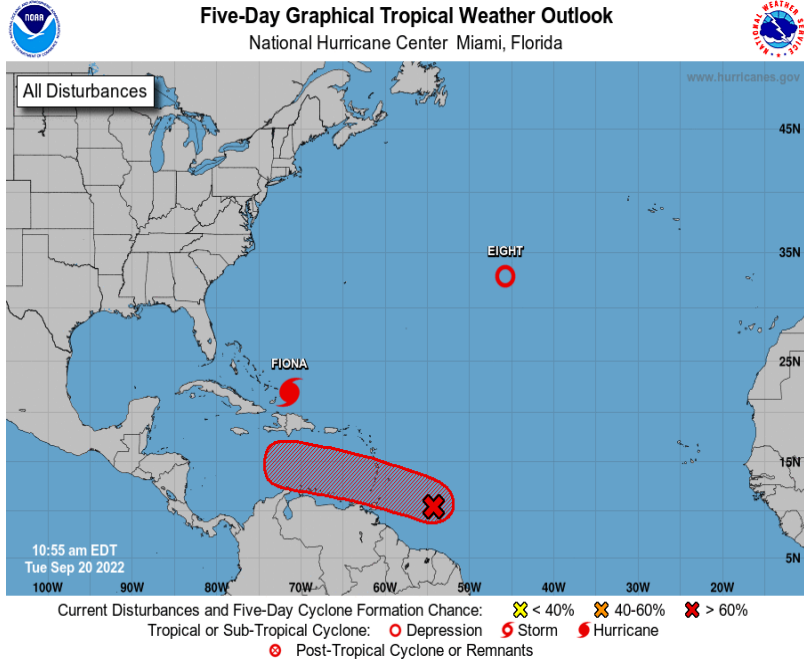


**Hurricane
Fiona**

TD8

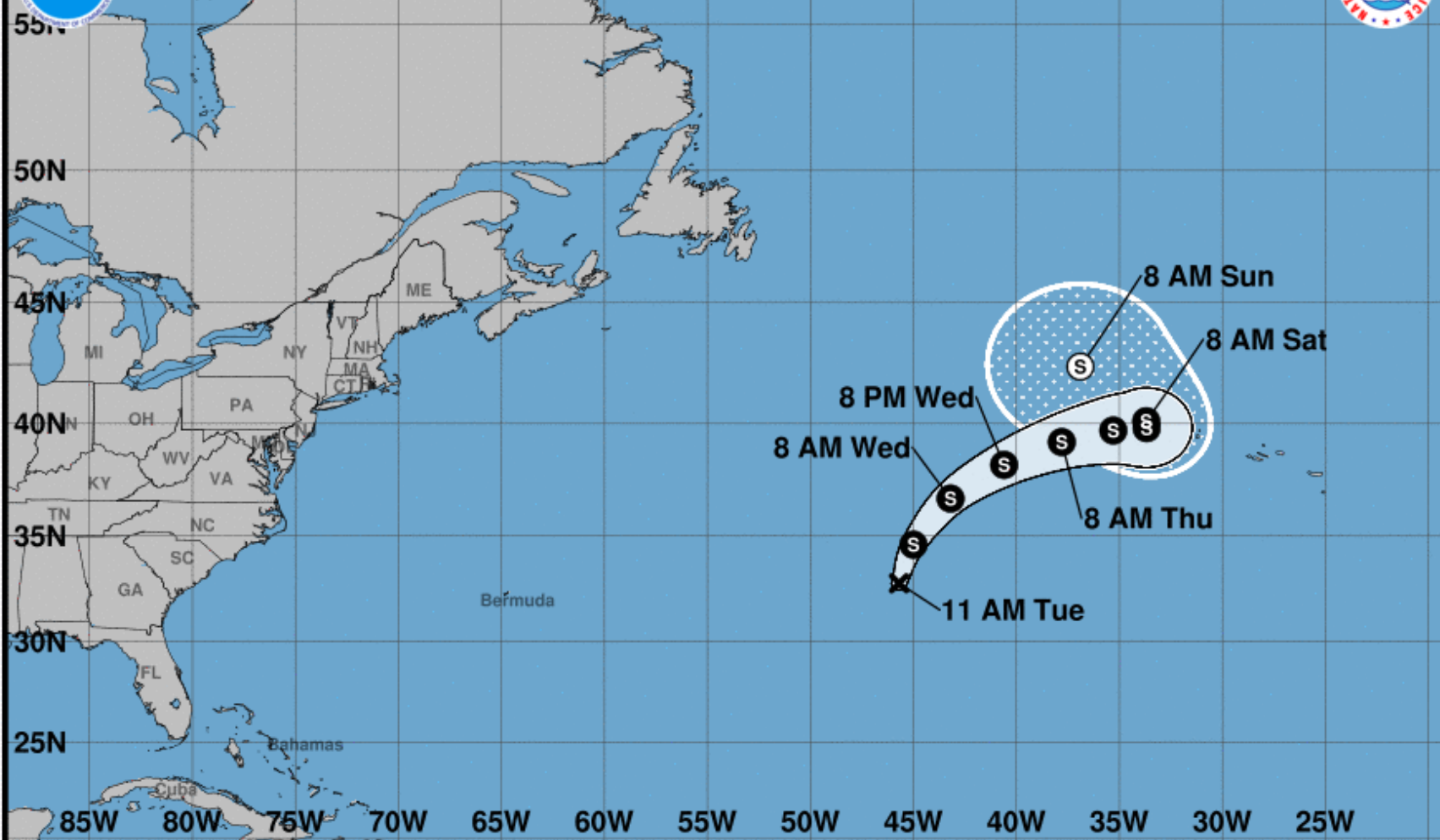


Tropical Cyclone Monitoring/Forecast: NHC





Note: The cone contains the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.

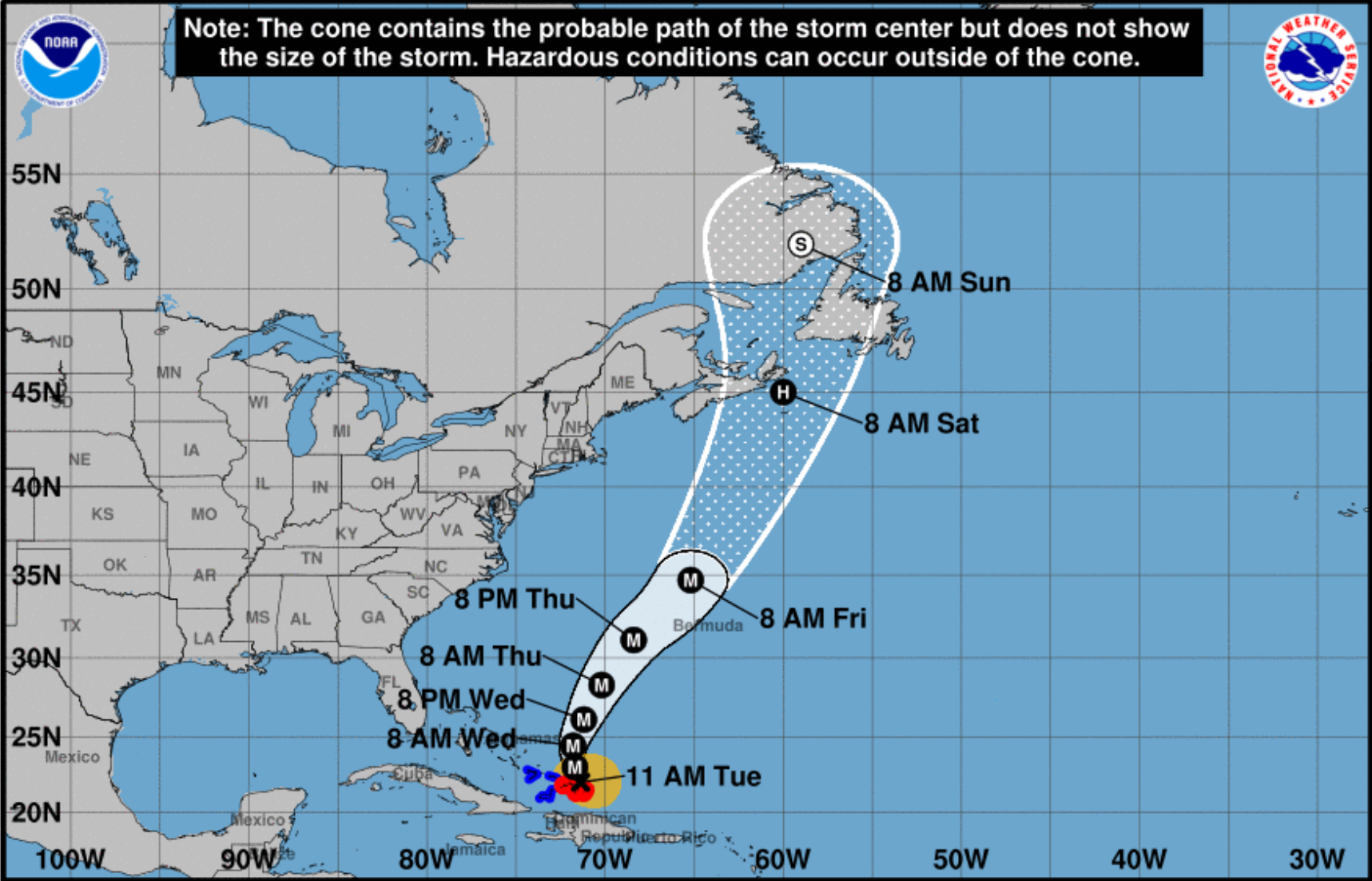


Tropical Depression Eight
 Tuesday September 20, 2022
 11 AM AST Advisory 1
 NWS National Hurricane Center

Current information: x
 Center location 32.8 N 45.7 W
 Maximum sustained wind 35 mph
 Movement N at 10 mph

Forecast positions:
 ● Tropical Cyclone ○ Post/Potential TC
 Sustained winds: D < 39 mph
 S 39-73 mph H 74-110 mph M > 110 mph

Potential track area:	Watches:	Warnings:	Current wind extent:
Day 1-3 Day 4-5	Hurricane Trop Stm	Hurricane Trop Stm	Hurricane Trop Stm



Hurricane Fiona
 Tuesday September 20, 2022
 11 AM EDT Advisory 25
 NWS National Hurricane Center

Current information: x
 Center location 22.0 N 71.4 W
 Maximum sustained wind 115 mph
 Movement NNW at 9 mph

Forecast positions:
 ● Tropical Cyclone ○ Post/Potential TC
 Sustained winds: D < 39 mph
 S 39-73 mph H 74-110 mph M > 110 mph

Potential track area:
 Day 1-3 (white outline) Day 4-5 (dotted pattern)

Watches:
 Hurricane (pink) Trop Stm (yellow)

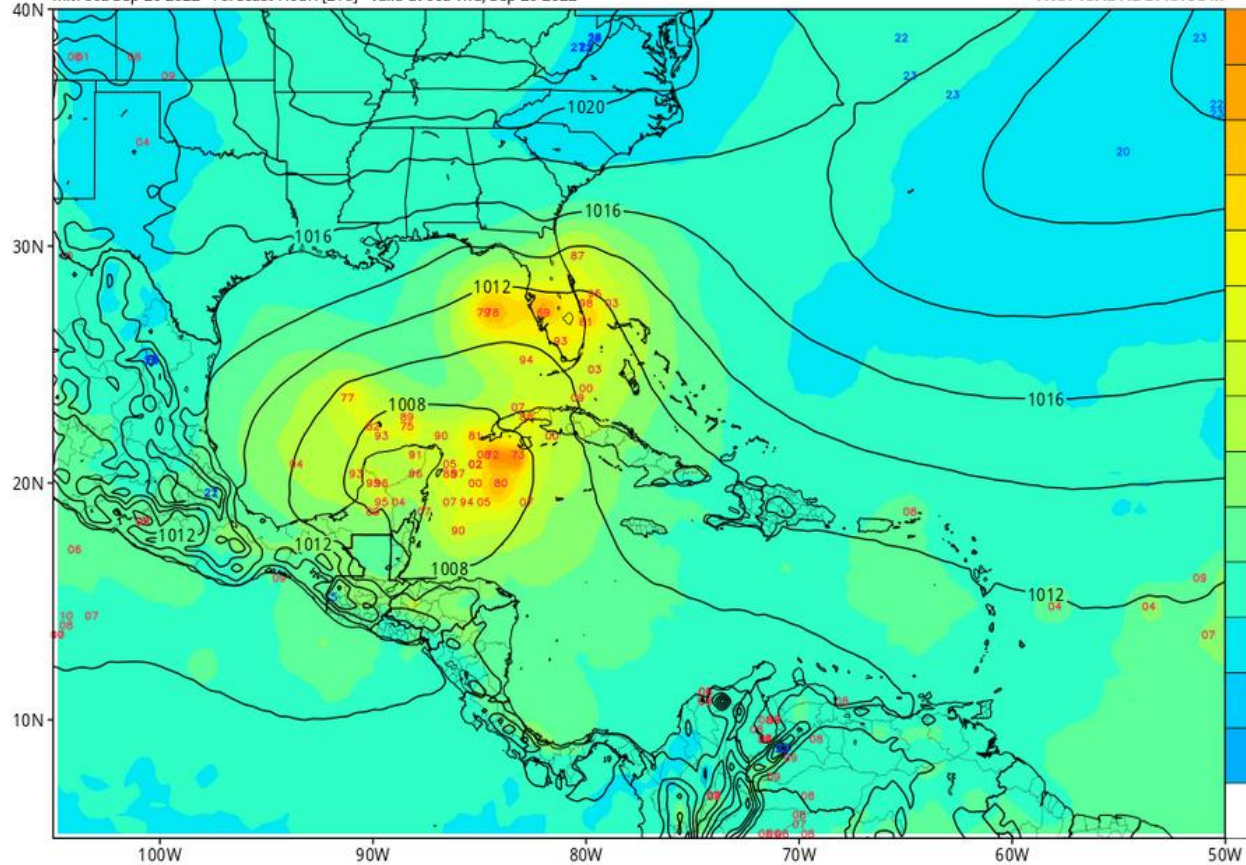
Warnings:
 Hurricane (red) Trop Stm (blue)

Current wind extent:
 Hurricane (brown) Trop Stm (orange)

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

Init: 00z Sep 20 2022 Forecast Hour: [216] valid at 00z Thu, Sep 29 2022

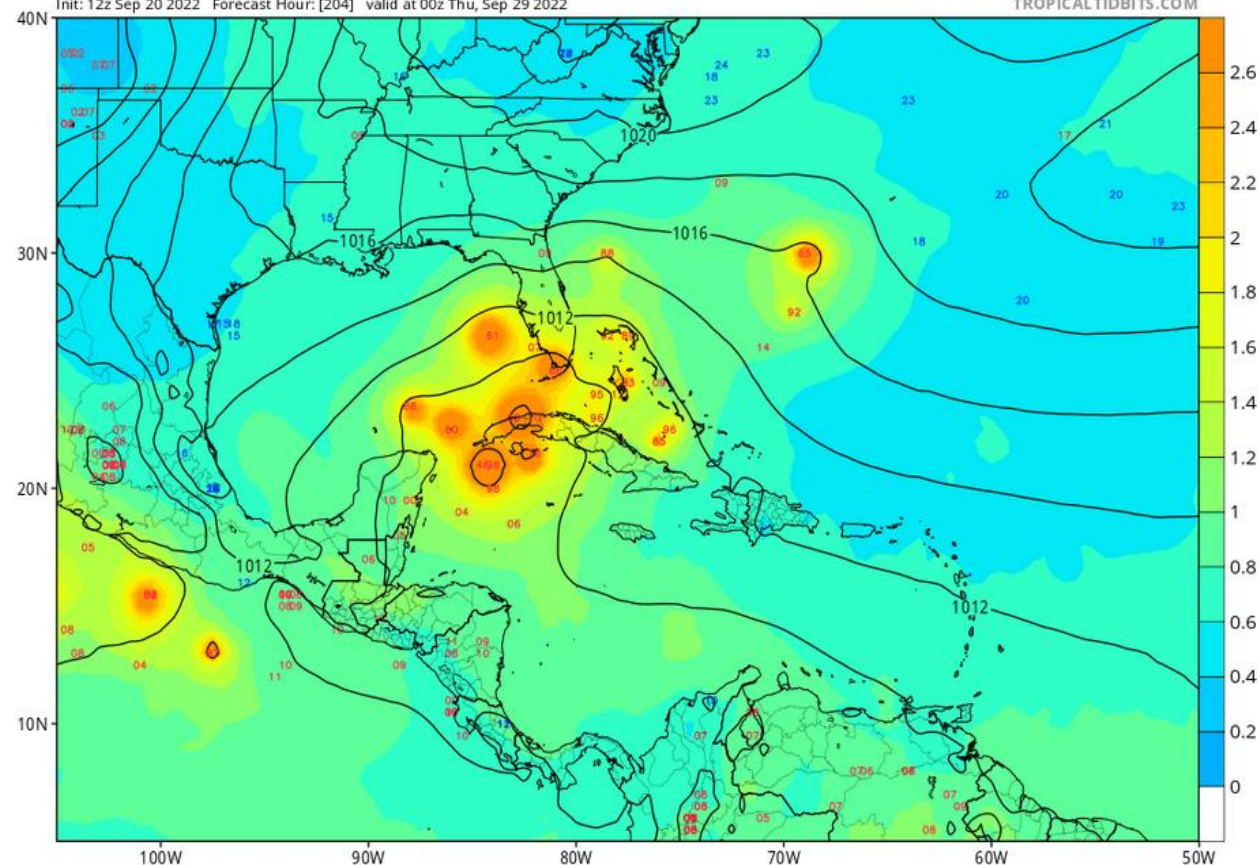
TROPICALTIDBITS.COM



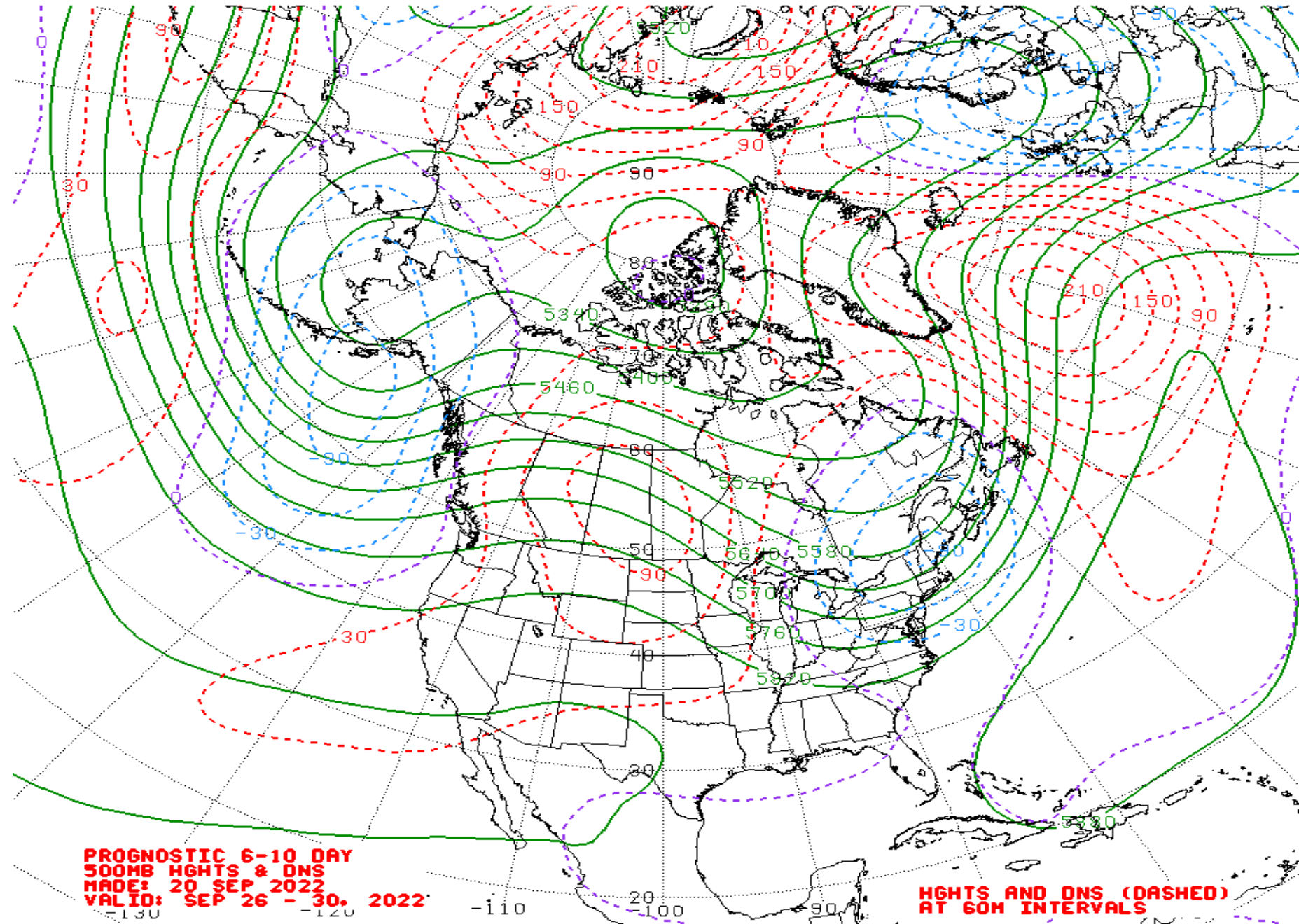
GEFS Mean MSLP (mb), Ensemble Member Pressure Centers (Lows: red | High: blue), & Normalized Spread (σ)

Init: 12z Sep 20 2022 Forecast Hour: [204] valid at 00z Thu, Sep 29 2022

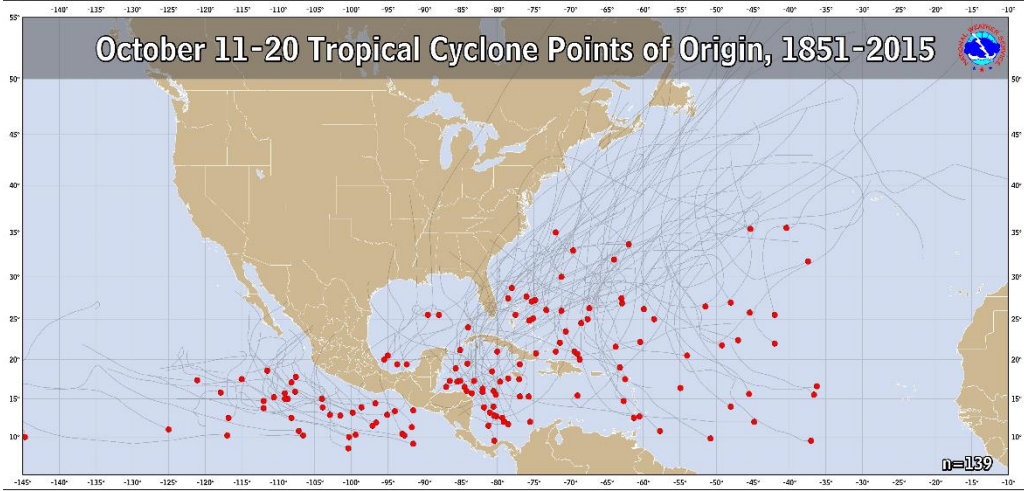
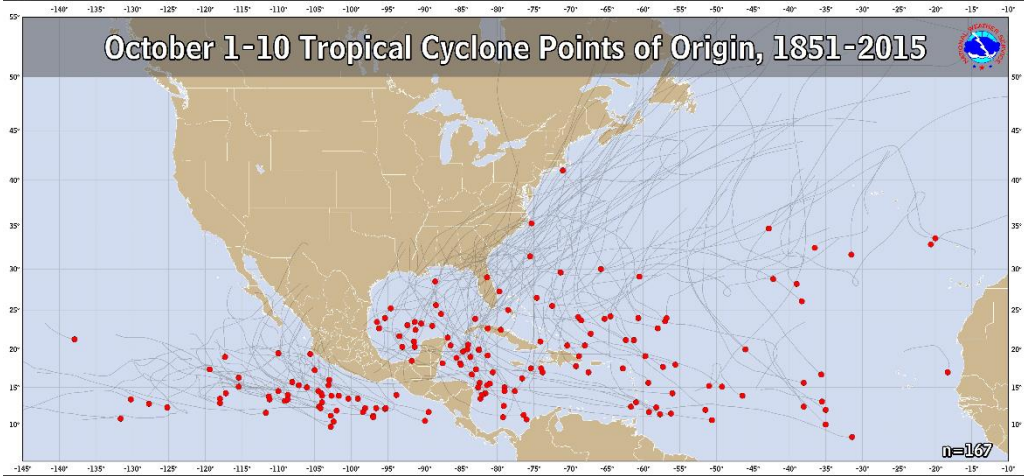
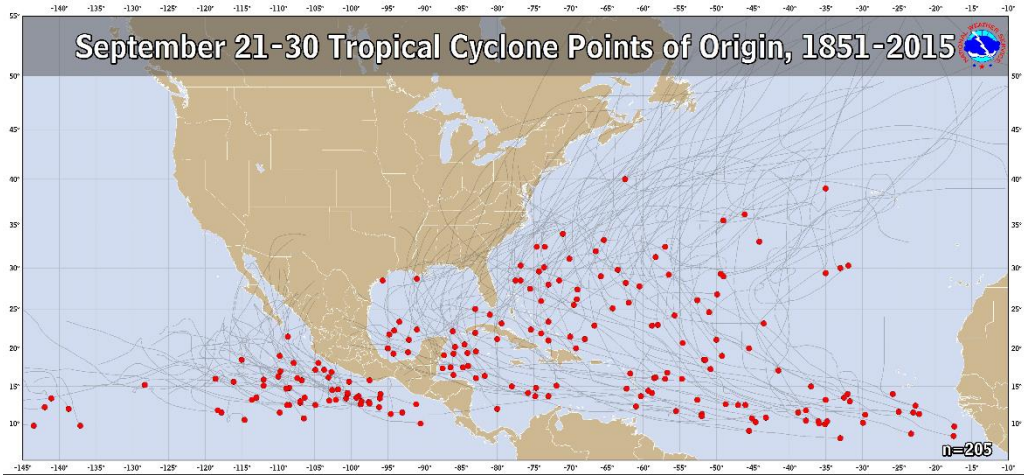
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0Z ECMWF ensemble members and 12Z GEFS: future track of system from Caribbean



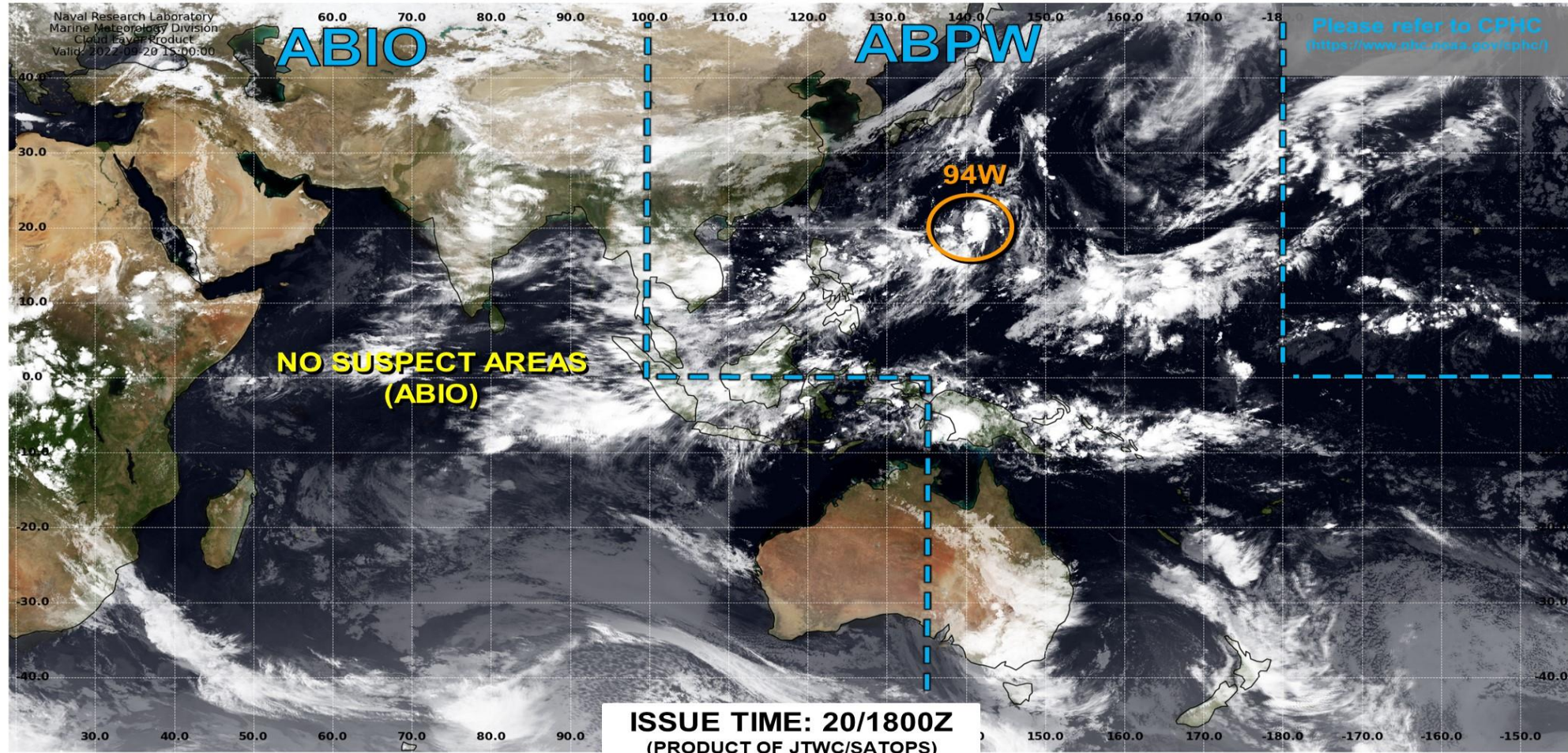
Amplitude/placement of eastern U.S. trough: critical factor in system emerging from Caribbean



Tropical Cyclone Monitoring/Forecast: JTWC



JOINT TYPHOON WARNING CENTER



TC development unlikely within 24 hours



TC development likely, but expected to occur beyond 24 hours



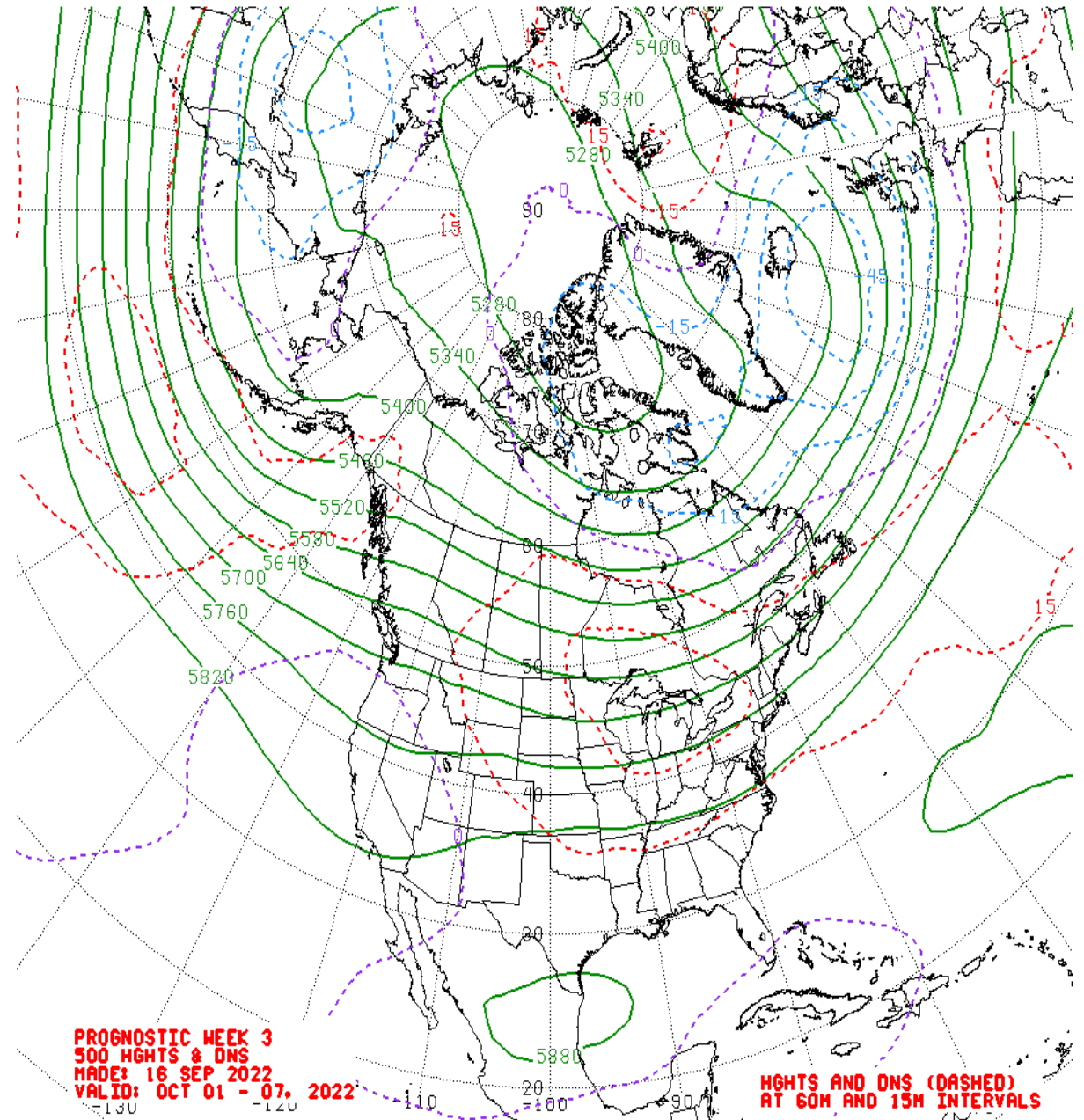
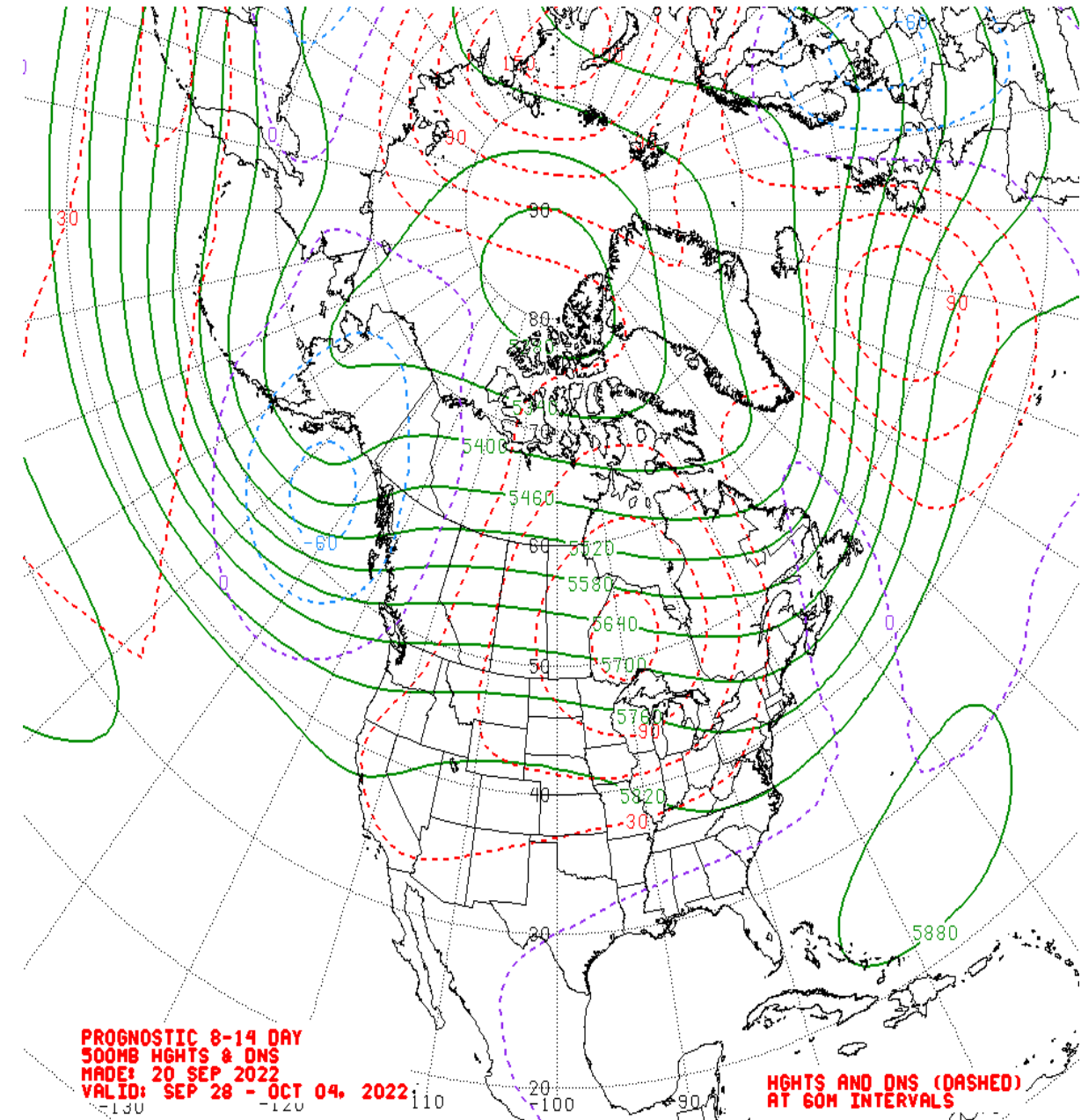
TC development likely within 24 hours (Reference TCFA)



Monitoring for potential transition to TC. Invest label color denotes tropical transition probability

 Tropical Cyclone (Reference Warning)

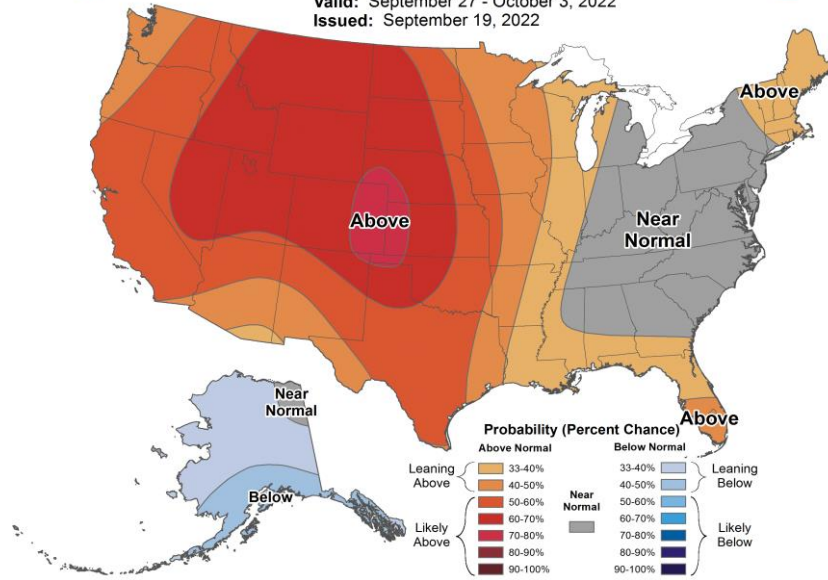
Mean 500-hPa Height Anomaly Forecasts:



Official Temperature & Precipitation Forecasts:

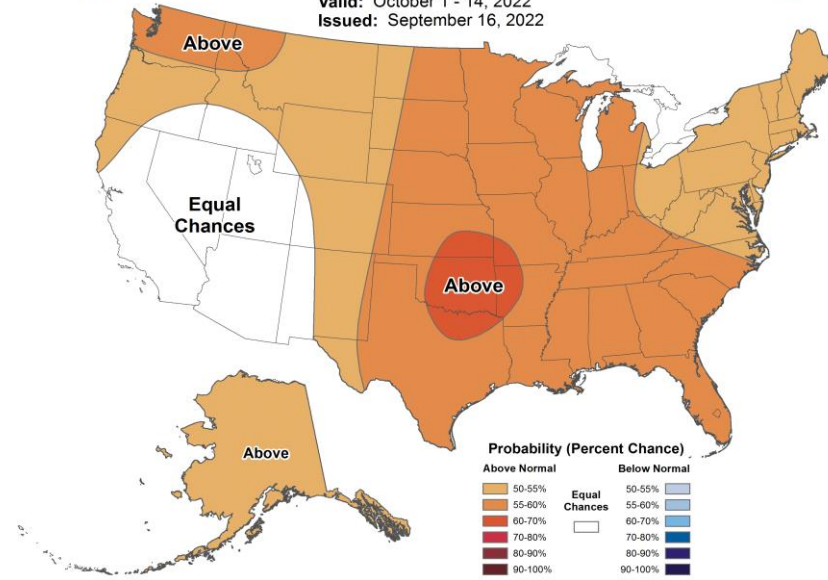
8-14 Day Temperature Outlook

Valid: September 27 - October 3, 2022
 Issued: September 19, 2022



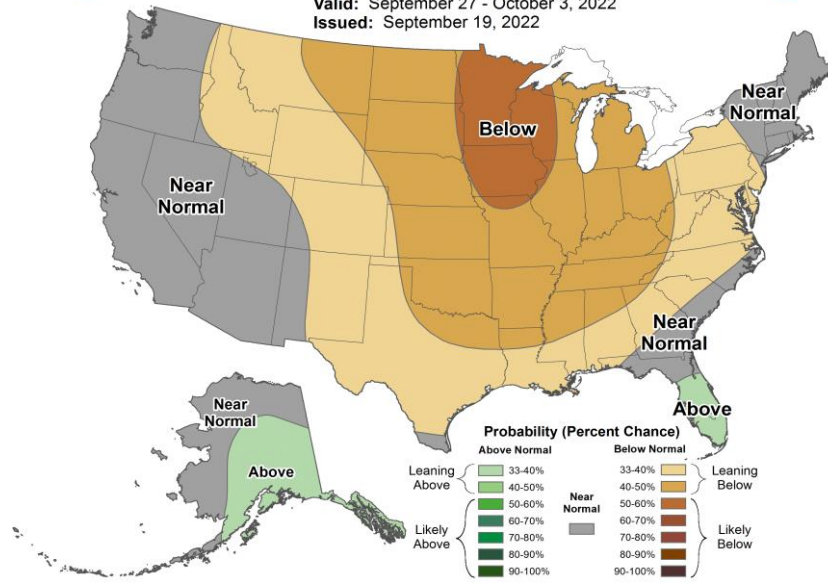
Weeks 3-4 Temperature Outlook

Valid: October 1 - 14, 2022
 Issued: September 16, 2022



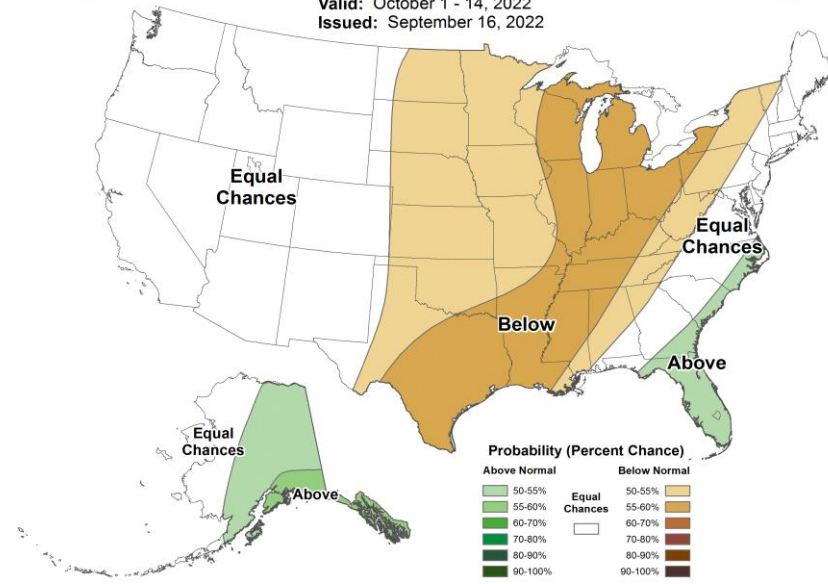
8-14 Day Precipitation Outlook

Valid: September 27 - October 3, 2022
 Issued: September 19, 2022



Weeks 3-4 Precipitation Outlook

Valid: October 1 - 14, 2022
 Issued: September 16, 2022



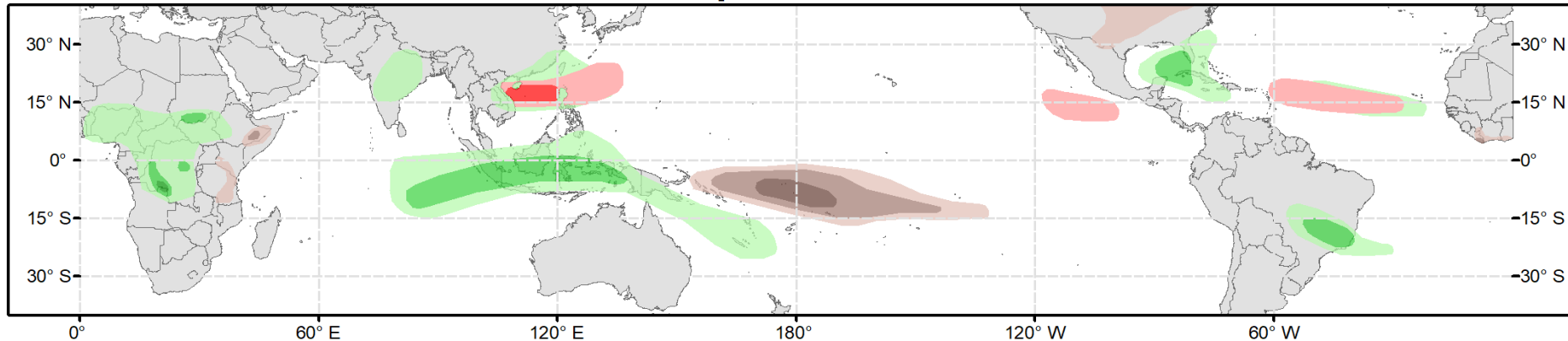


Global Tropics Hazards Outlook

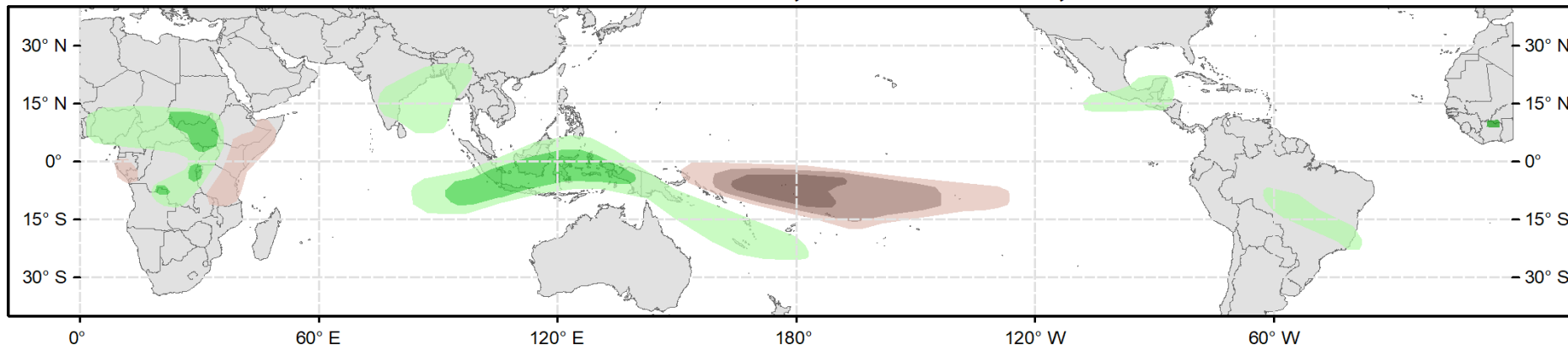
Climate Prediction Center



Week 2 - Valid: Sep 28, 2022 - Oct 04, 2022



Week 3 - Valid: Oct 05, 2022 - Oct 11, 2022



Week-2 Only

Tropical Cyclone (TC) Formation Probability

>20% >40% >60%

Tropical Depression (TD) or greater strength

Above-Average Rainfall Probability

>50% >65% >80%

Weekly total rainfall in the Upper third of the historical range

Below-Average Rainfall Probability

>50% >65% >80%

Weekly total rainfall in the Lower third of the historical range

Above-Average Temperatures Probability

>50% >65% >80%

7-day mean temperatures in the Upper third of the historical range

Below-Average Temperatures Probability

>50% >65% >80%

7-day mean temperatures in the Lower third of the historical range

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