



Weeks 2-3 Global Tropics Hazards Outlook

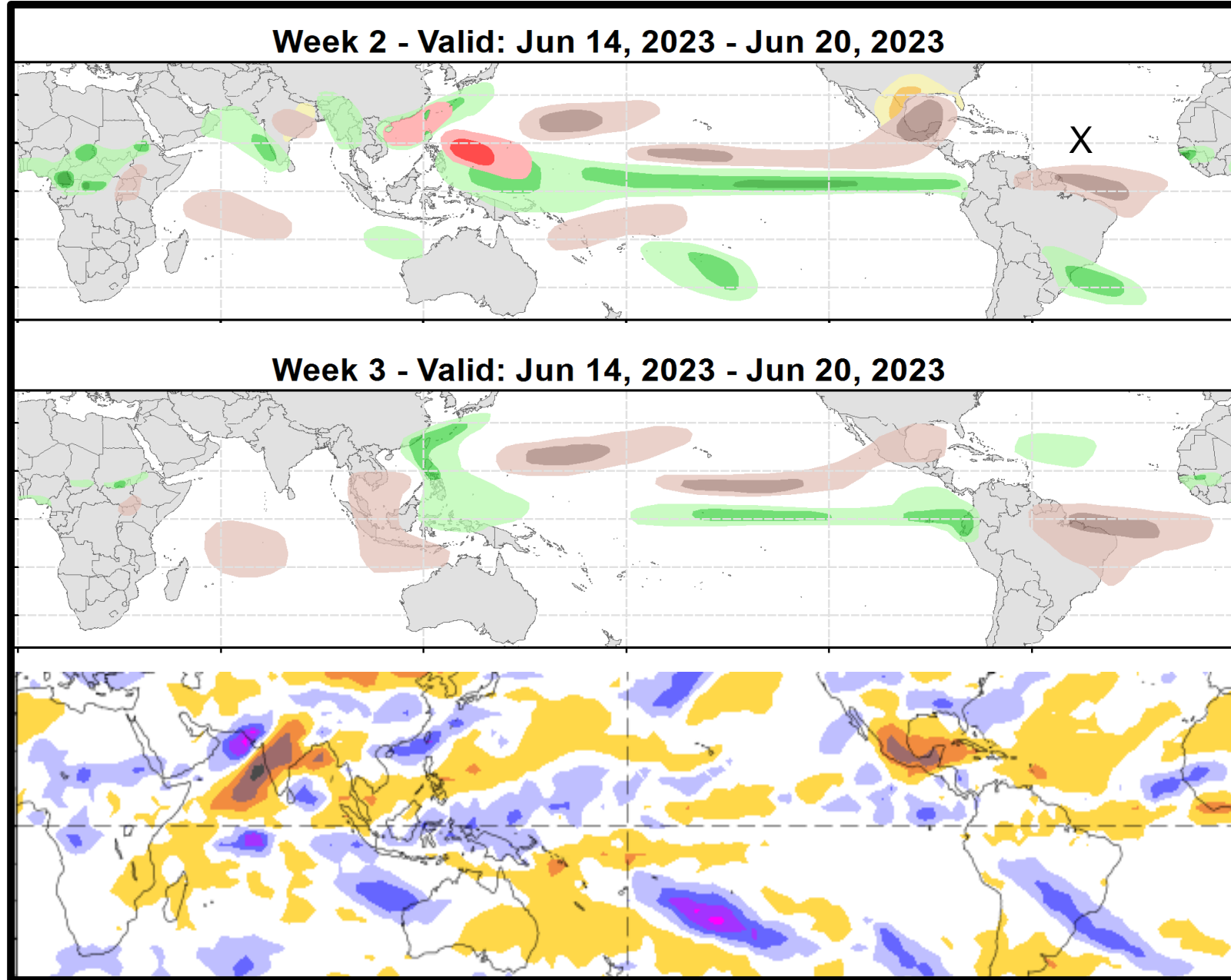
6/20/2023

Brad Pugh

NWS / NCEP / Climate Prediction Center

Outlook Review: TC development & anomalous precipitation during the past week

X Tropical Storm Bret (June 19)



Synopsis of Climate Modes:

ENSO: (Jun 8, 2023 Update) *next update on Thursday, July 13th*

- ENSO Alert System Status: [El Niño Advisory](#)
- El Niño conditions are present and are expected to gradually strengthen into the Northern Hemisphere winter 2023-24.

MJO and other subseasonal tropical variability:

- The MJO weakened during mid-June with El Niño conditions expected to provide an increasing influence on global tropical rainfall and tropical cyclone (TC) development.
- Increased chances for additional TC genesis across the Atlantic basin through early week-2. East Pacific is expected to become more active by the end of June.
- North American monsoon is likely to remain suppressed with a heat wave persisting across northern Mexico and the south-central United States.

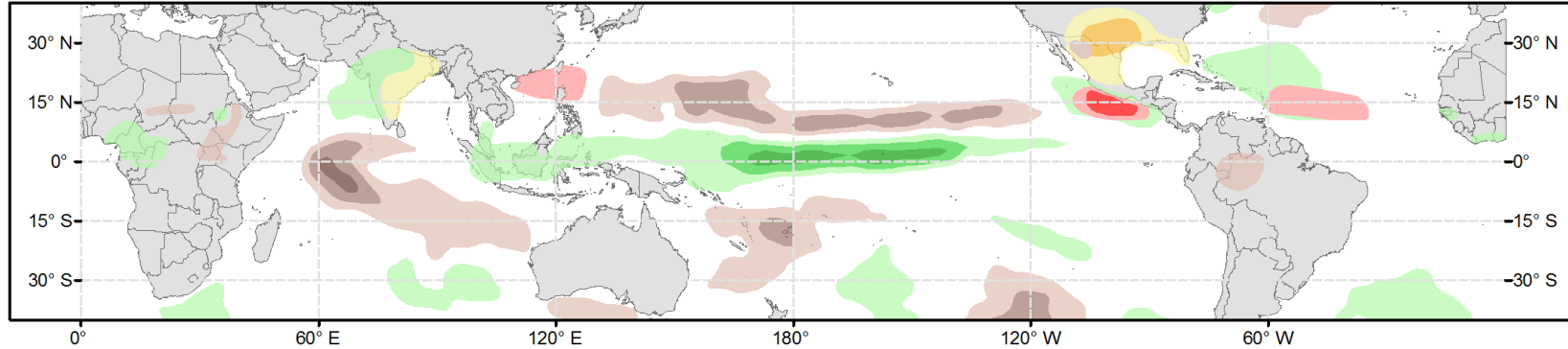
GTH Outlook:



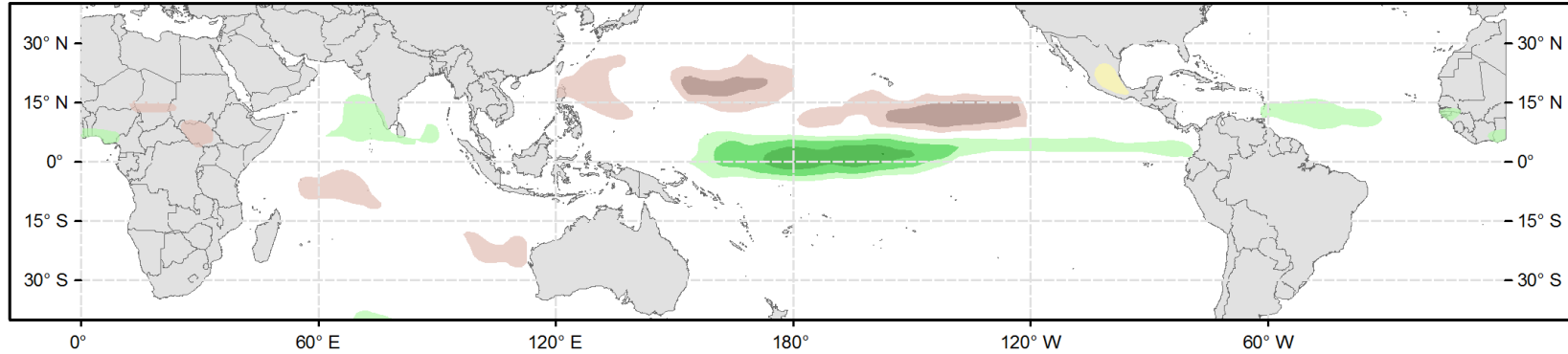
Global Tropics Hazards Outlook Climate Prediction Center



Week 2 - Valid: Jun 28, 2023 - Jul 04, 2023



Week 3 - Valid: Jul 05, 2023 - Jul 11, 2023



Week-2 Only
Tropical Cyclone (TC) Formation Probability

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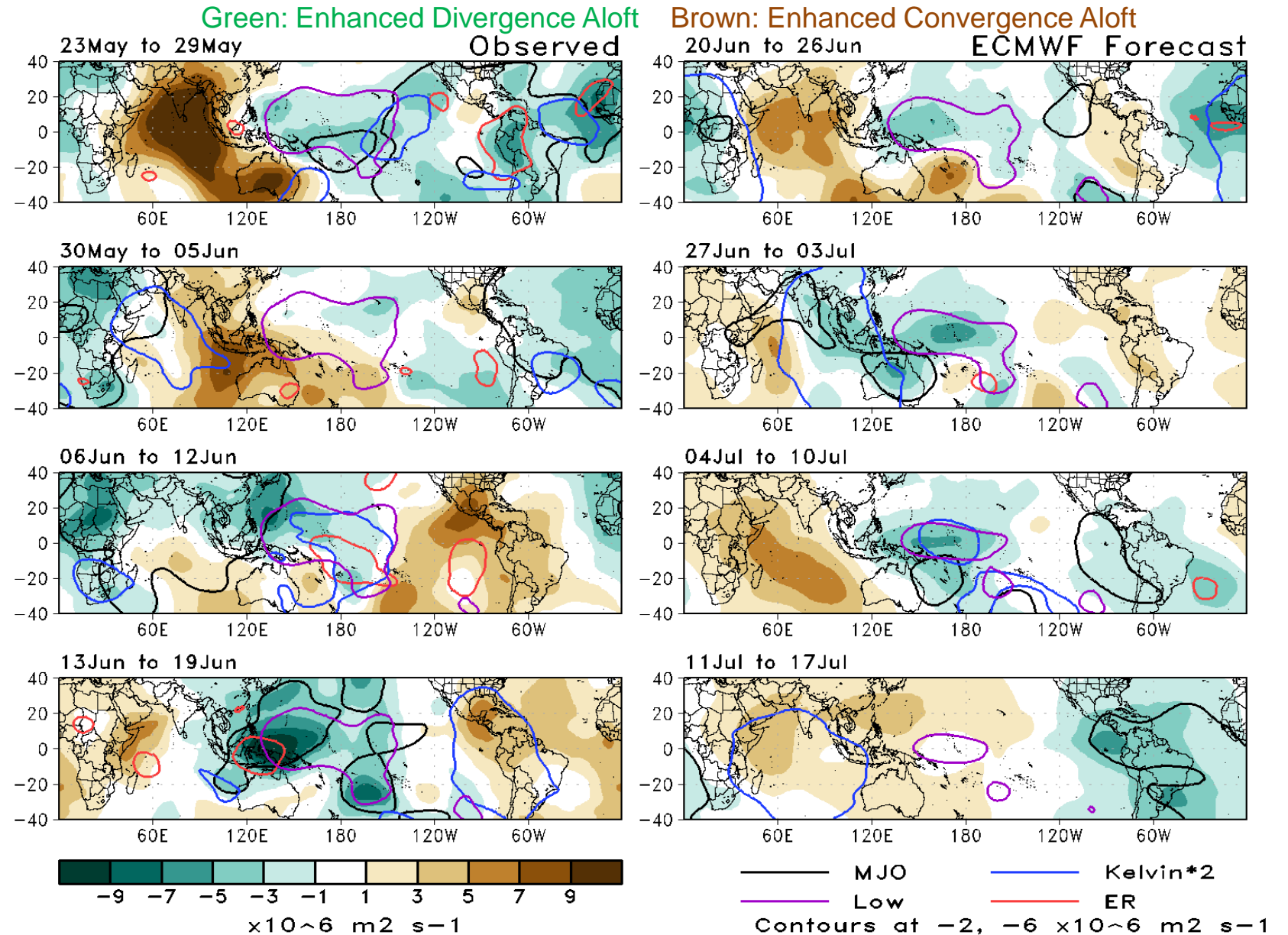
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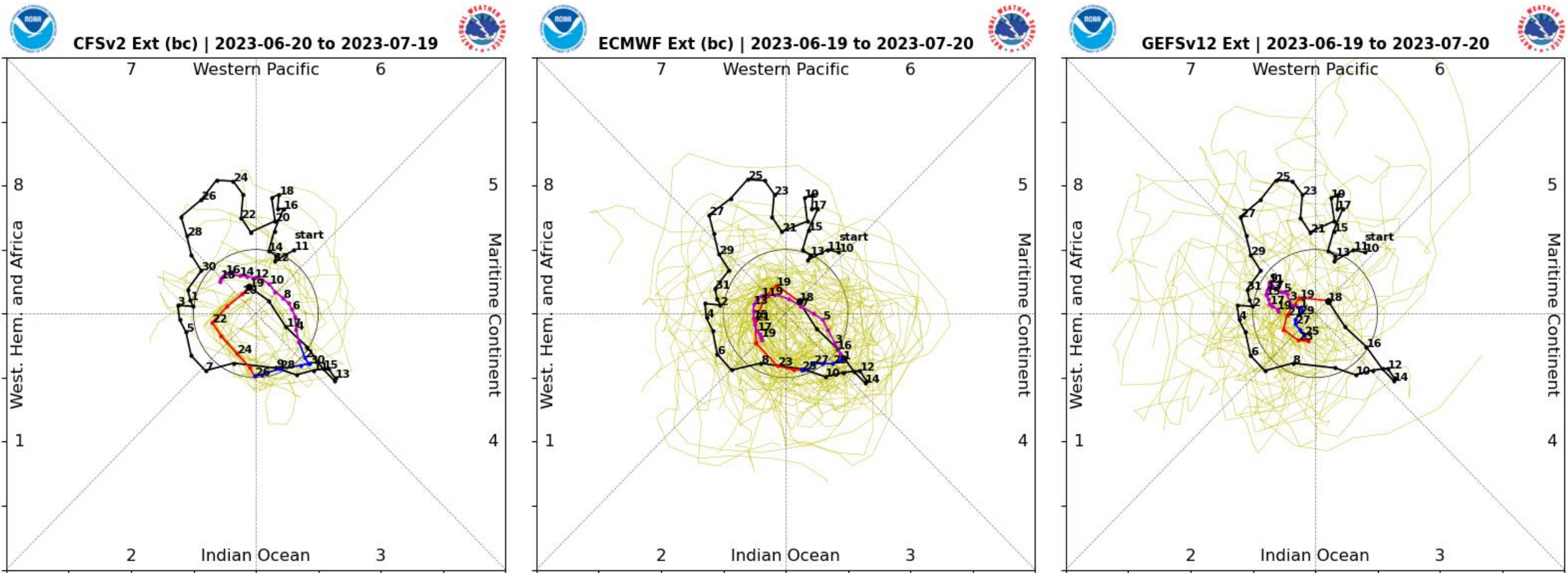
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200-hPa Velocity Potential Anomaly Maps:

- The low frequency El Niño footprint remains evident, with enhanced divergence (convergence) aloft across the central Pacific (Indian Ocean) persisting through early July.
- Less coherent pattern during late June and early July, consistent with a weaker MJO.

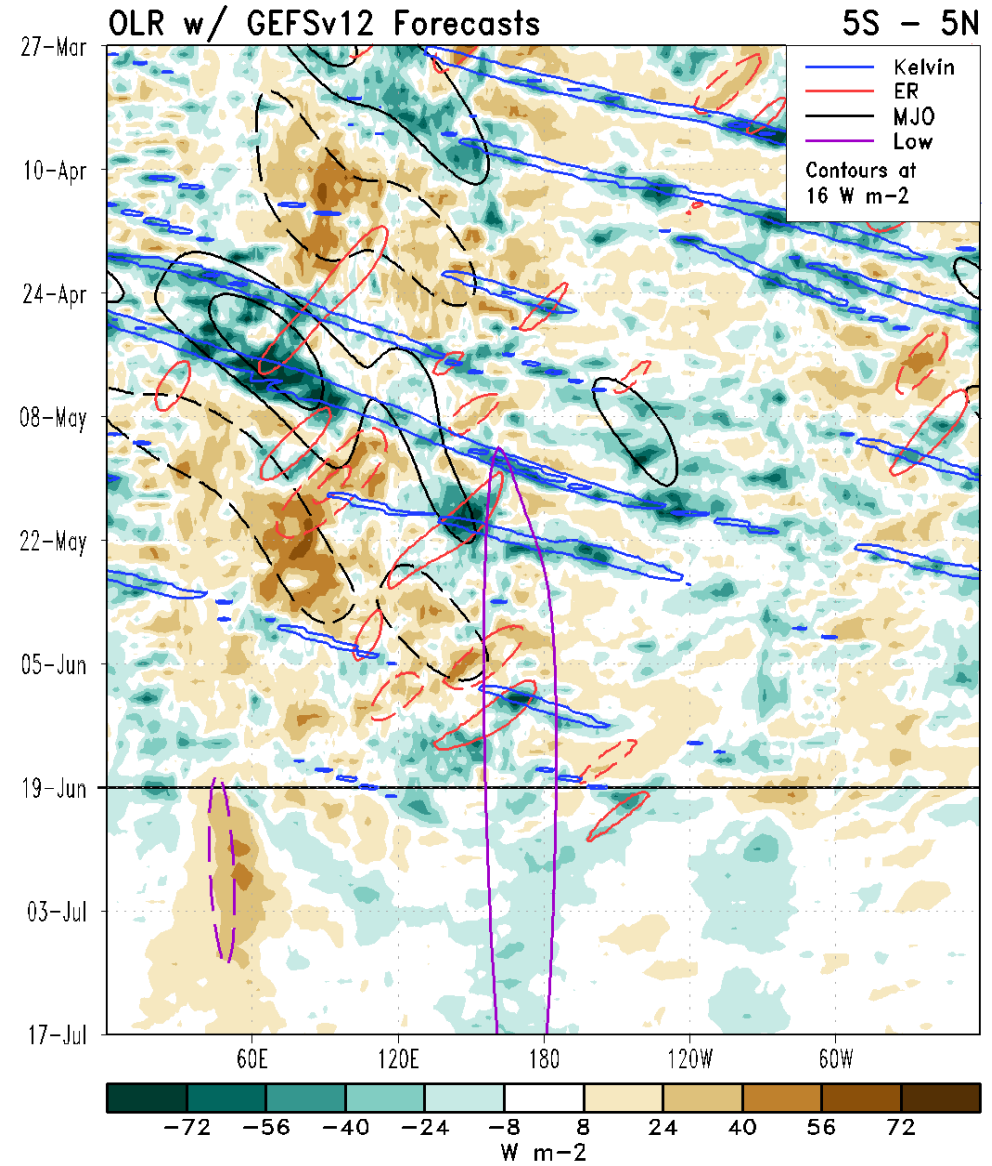
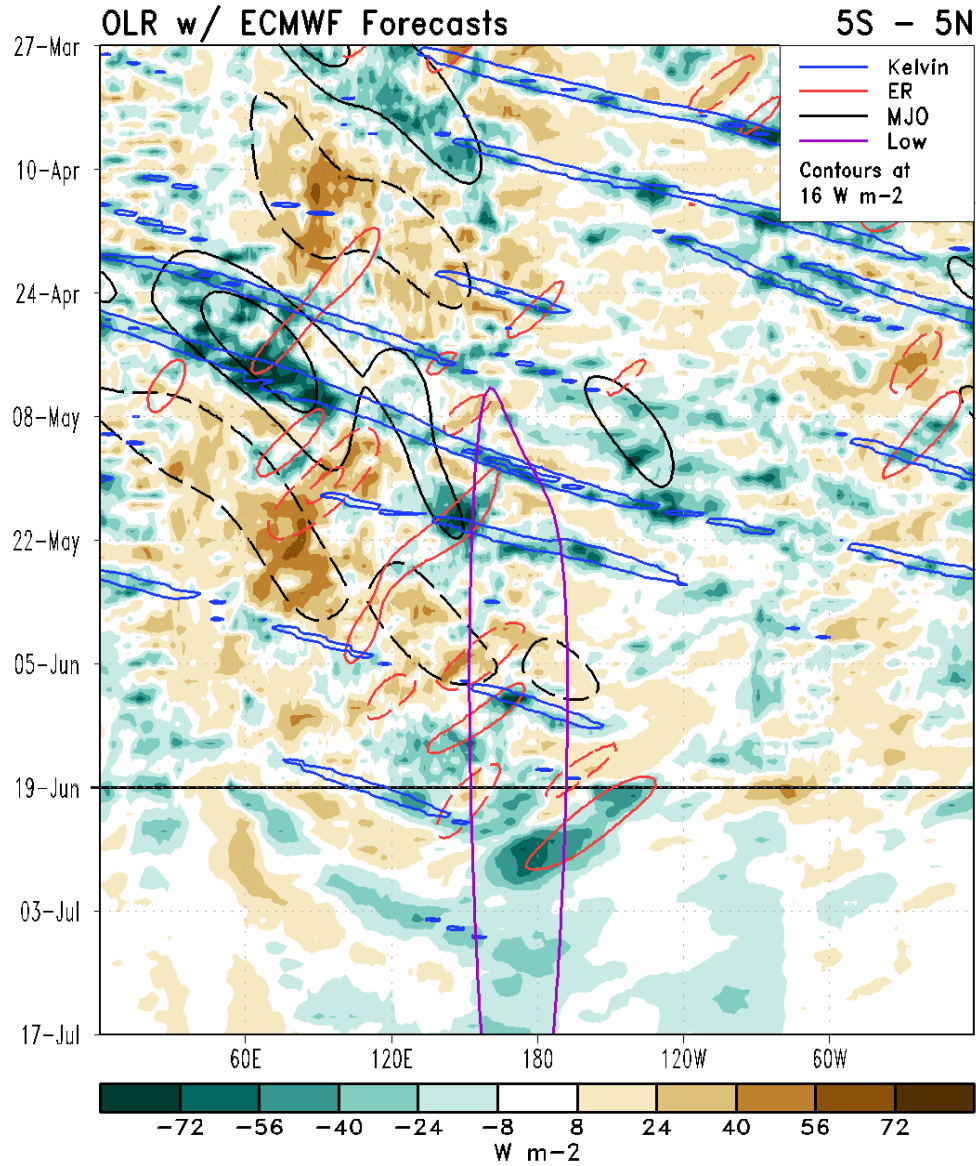


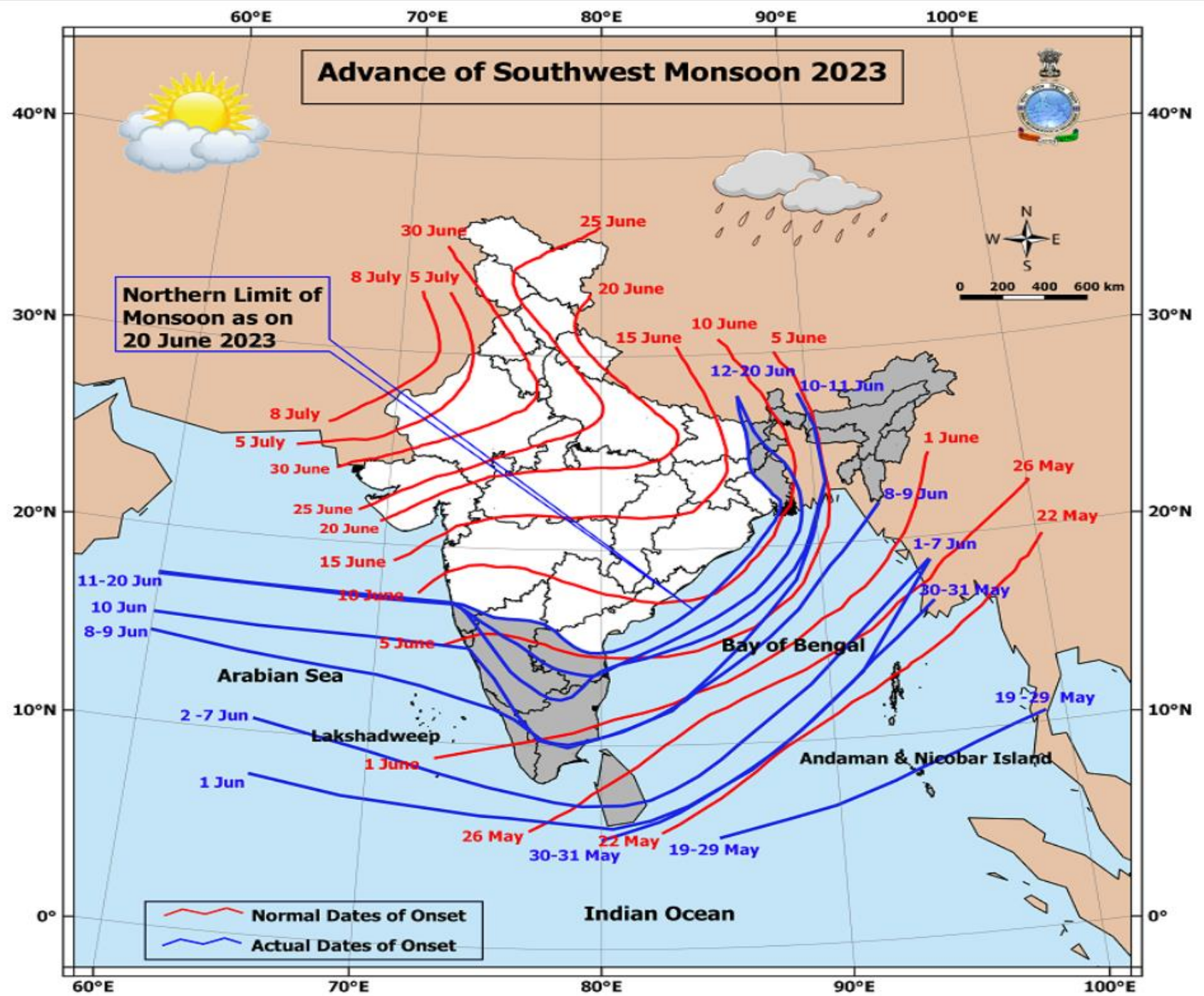
RMM Index Observations & Forecasts:



- The CFS, ECMWF, and GEFs agree that the RMM index remains inside the unit circle through early to mid-July.

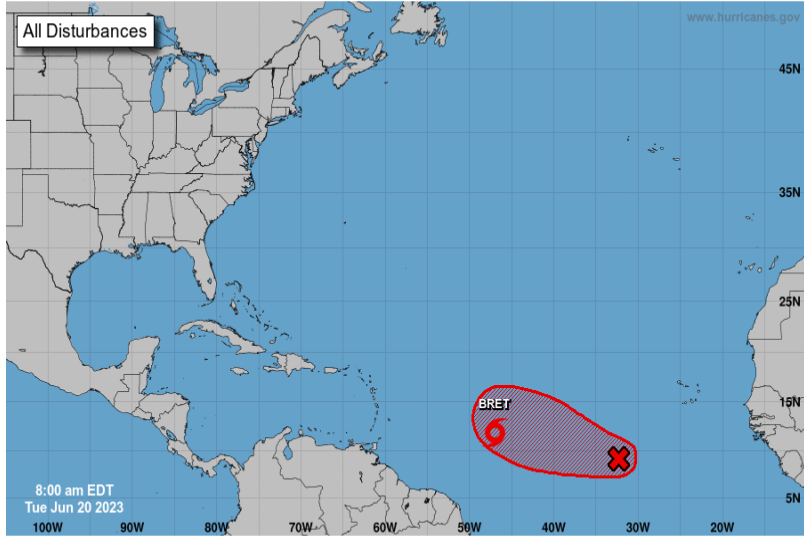
Outgoing Longwave Radiation (OLR) Anomaly Time/Lon Plots:





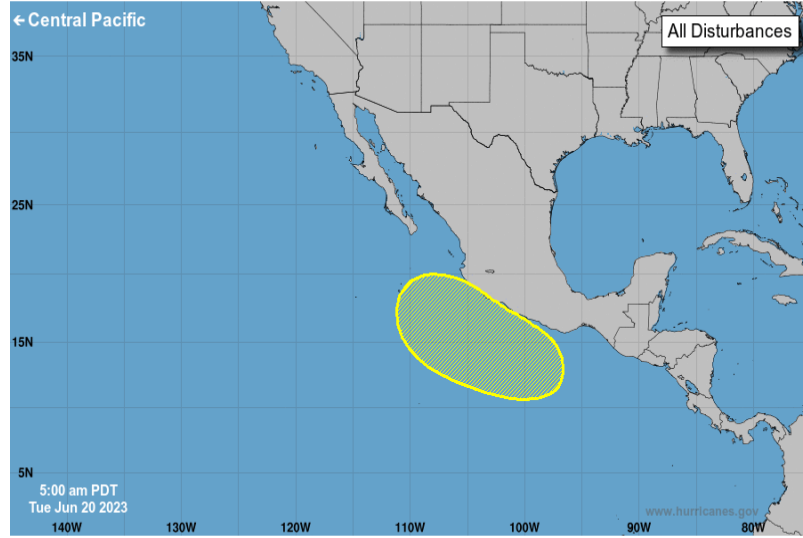
Tropical Cyclone Monitoring/Forecast: NHC

Seven-Day Graphical Tropical Weather Outlook
National Hurricane Center Miami, Florida



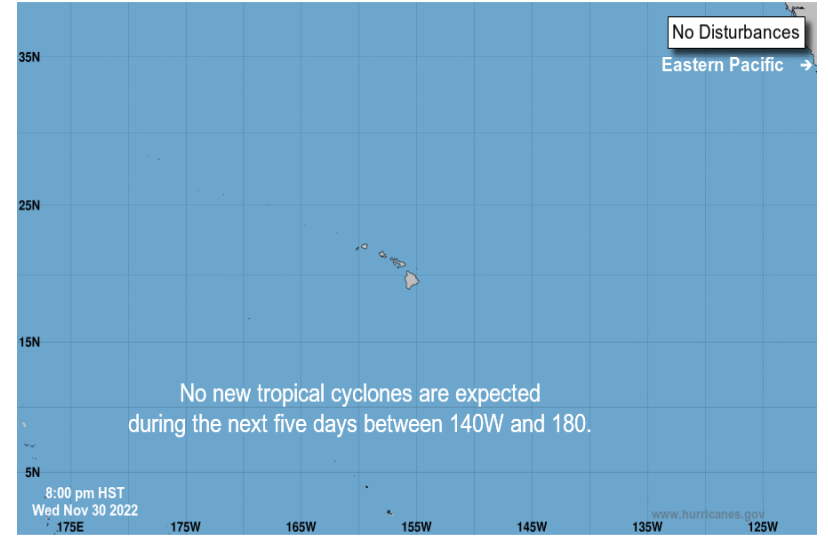
Current Disturbances and Seven-Day Cyclone Formation Chance: < 40% 40-60% > 60%
Tropical or Sub-Tropical Cyclone: Depression Storm Hurricane
 Post-Tropical Cyclone or Remnants

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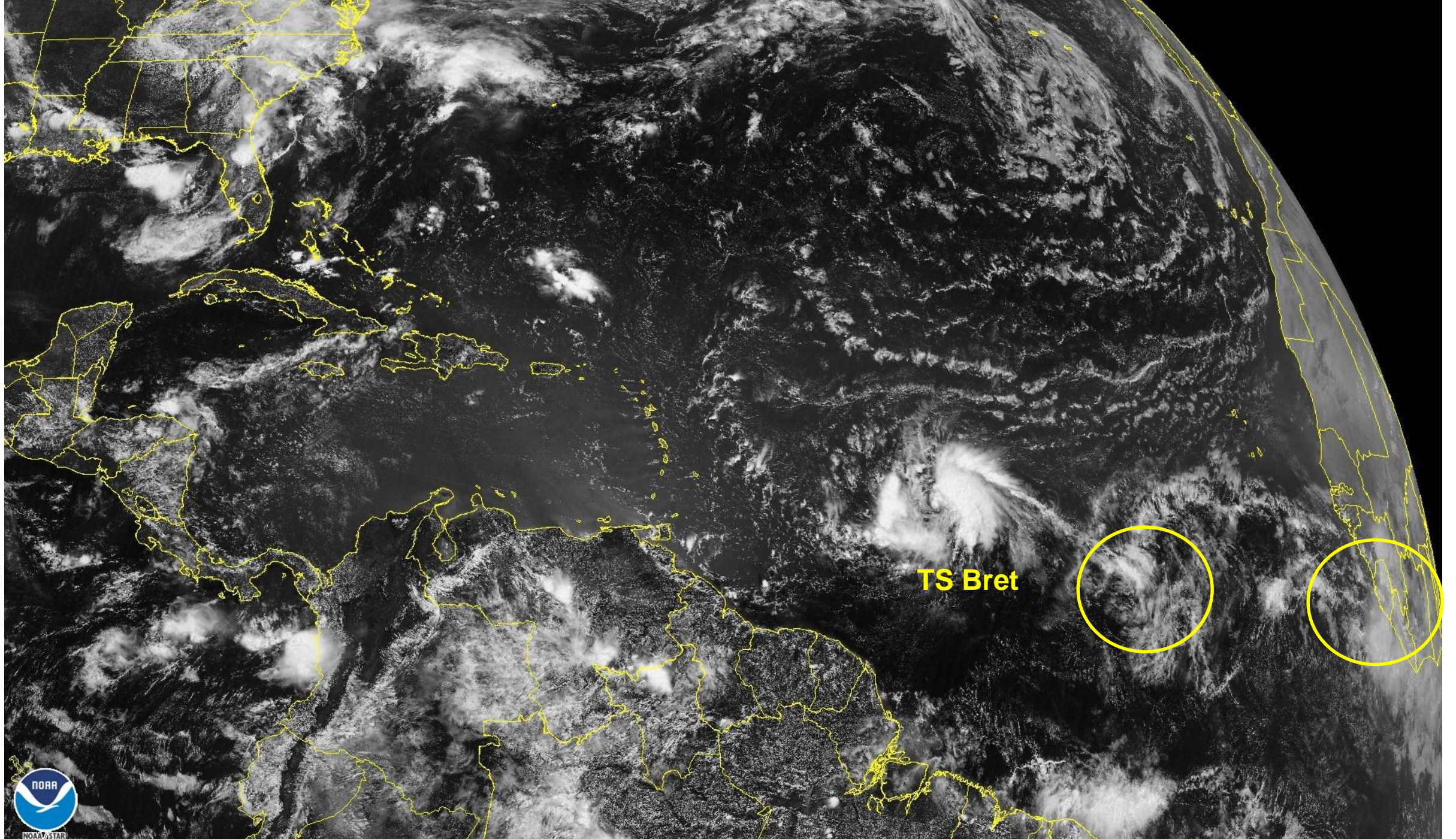


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Five-Day Graphical Tropical Weather Outlook
Central Pacific Hurricane Center Honolulu, Hawaii



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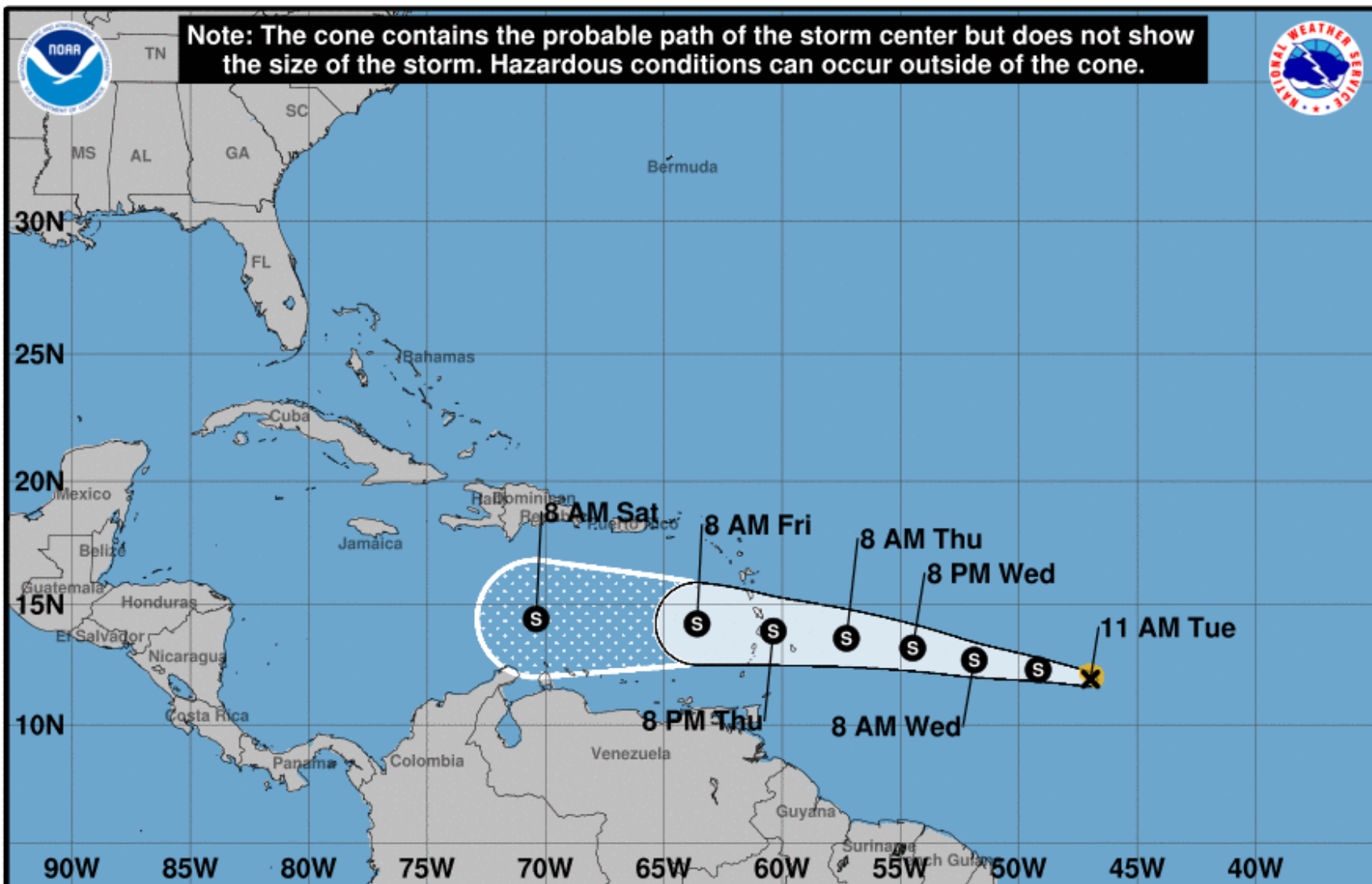
TS Bret



20 Jun 2023 15:40Z - NOAA/NESDIS/STAR - GOES-East - Band 02 - TAW



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.

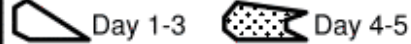


Tropical Storm Bret
 Tuesday June 20, 2023
 11 AM AST Advisory 5
 NWS National Hurricane Center

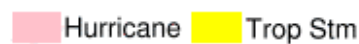
Current information: x
 Center location 11.9 N 47.0 W
 Maximum sustained wind 40 mph
 Movement W at 21 mph

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:



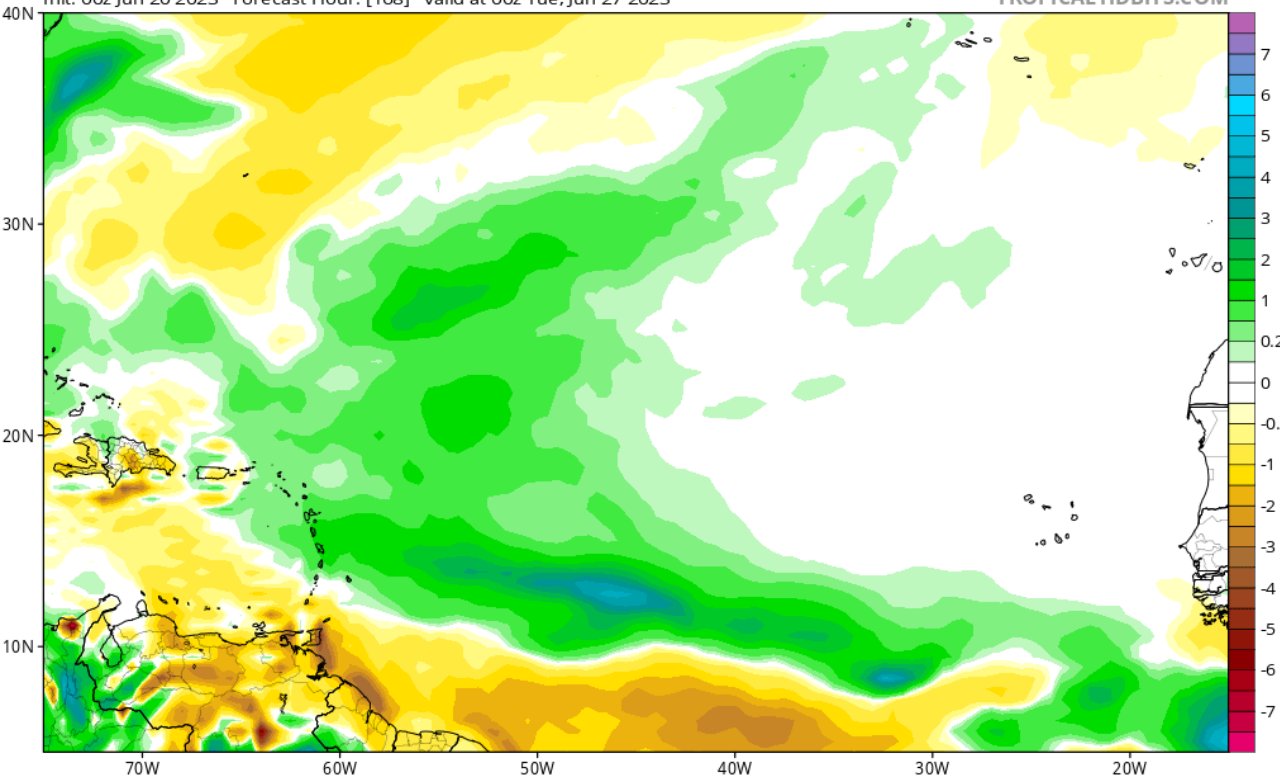
Current wind field estimate:



GEFS Accumulated Precip. Anomaly (in) from 00z20Jun2023 to 00z27Jun2023 (Days 1-7)

Init: 00z Jun 20 2023 Forecast Hour: [168] valid at 00z Tue, Jun 27 2023

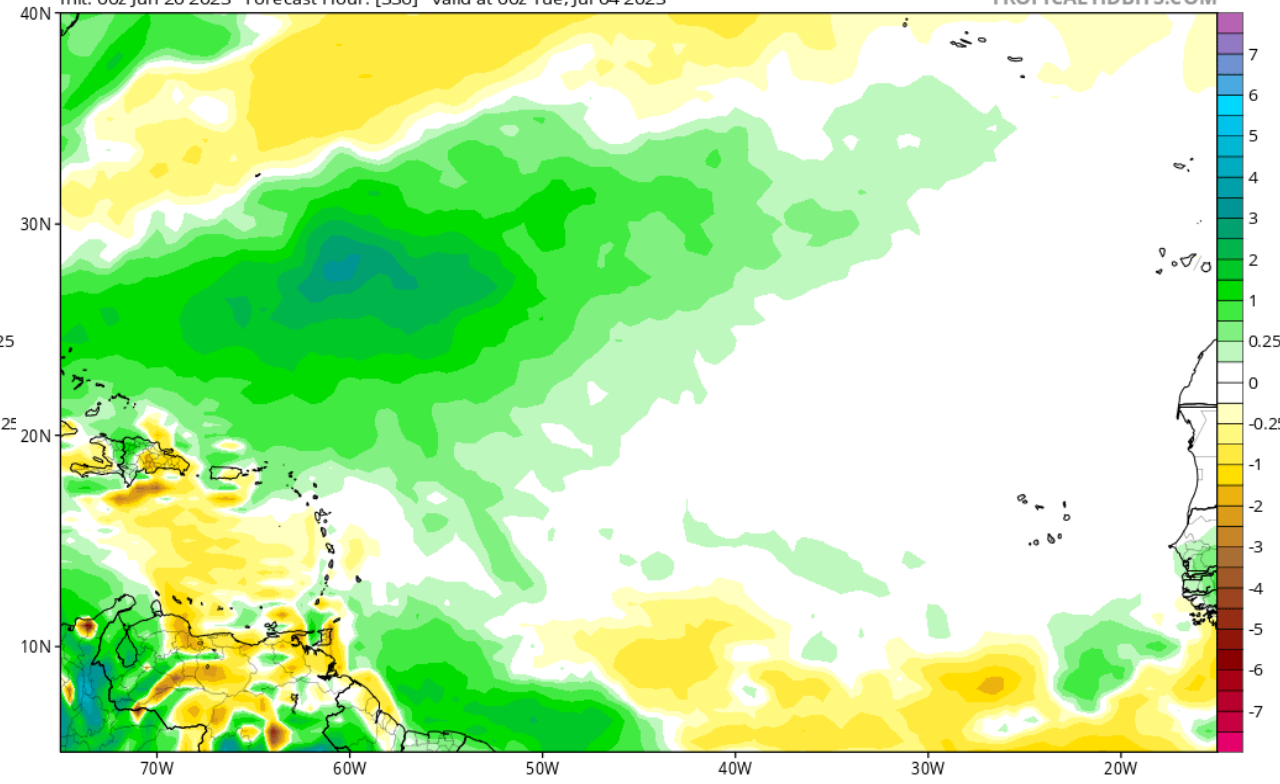
TROPICALTIDBITS.COM



GEFS Accumulated Precip. Anomaly (in) from 00z27Jun2023 to 00z04Jul2023 (Days 8-14)

Init: 00z Jun 20 2023 Forecast Hour: [336] valid at 00z Tue, Jul 04 2023

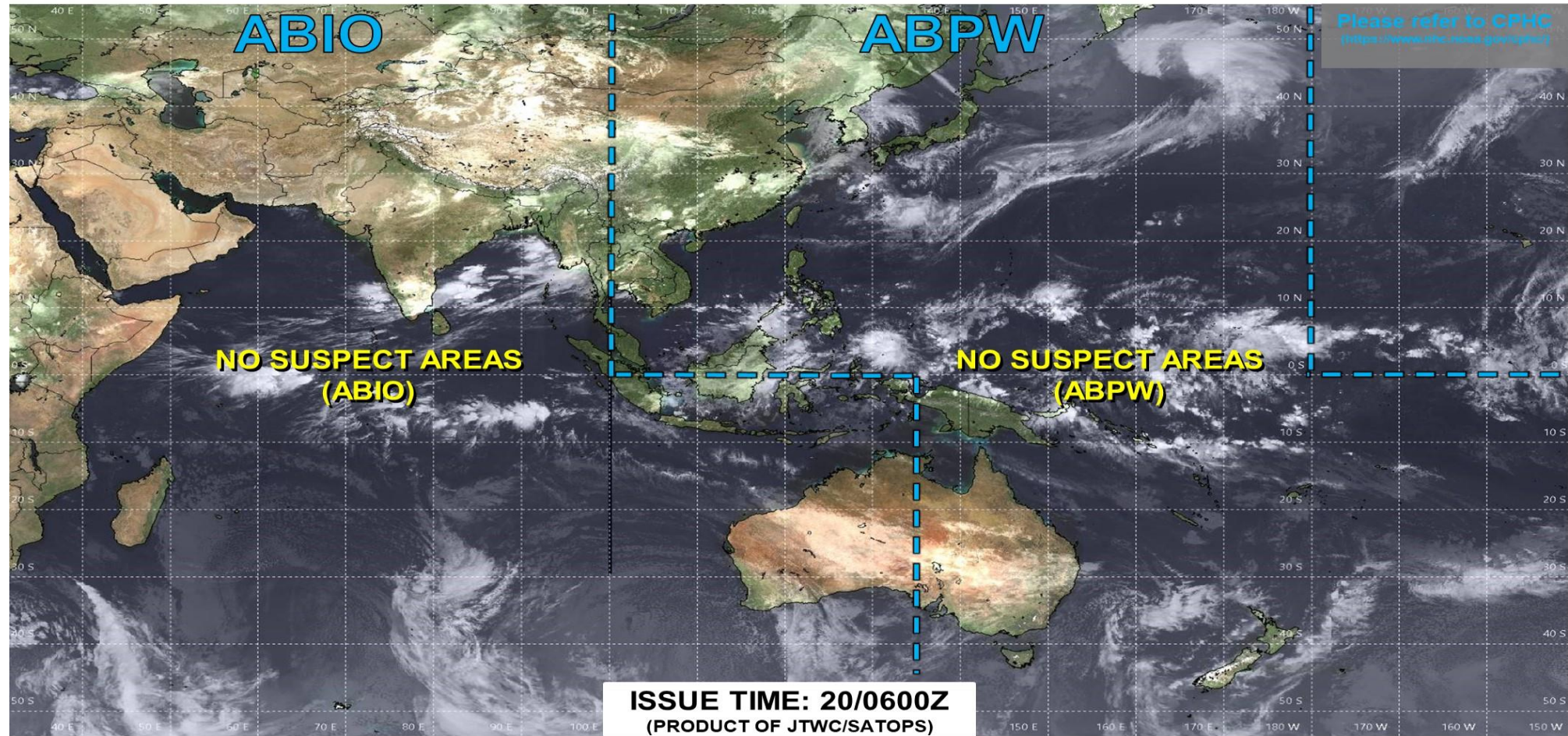
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Tropical Cyclone Monitoring/Forecast: JTWC



JOINT TYPHOON WARNING CENTER



TC development unlikely within 24 hours



TC development likely, but expected to occur beyond 24 hours



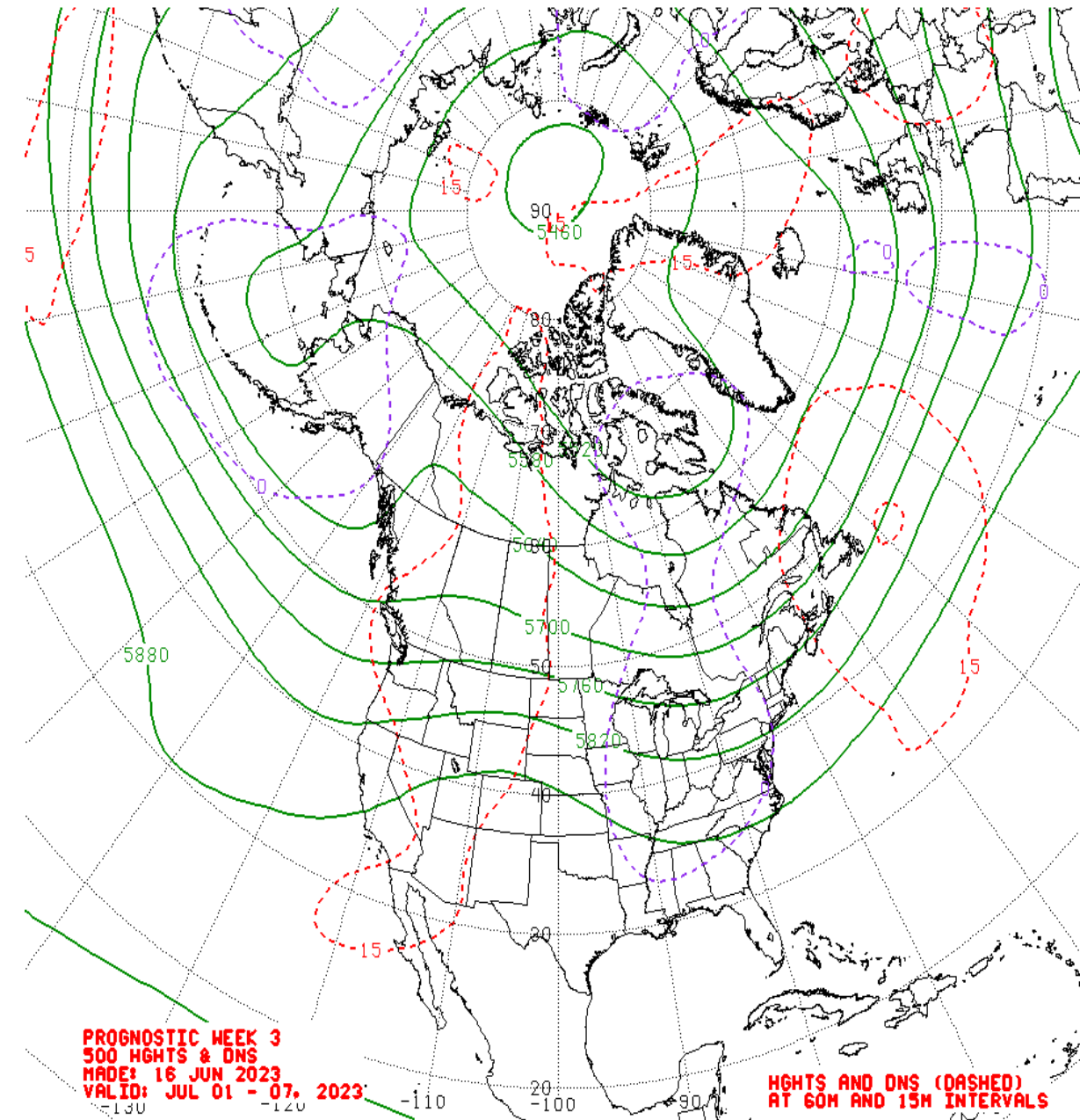
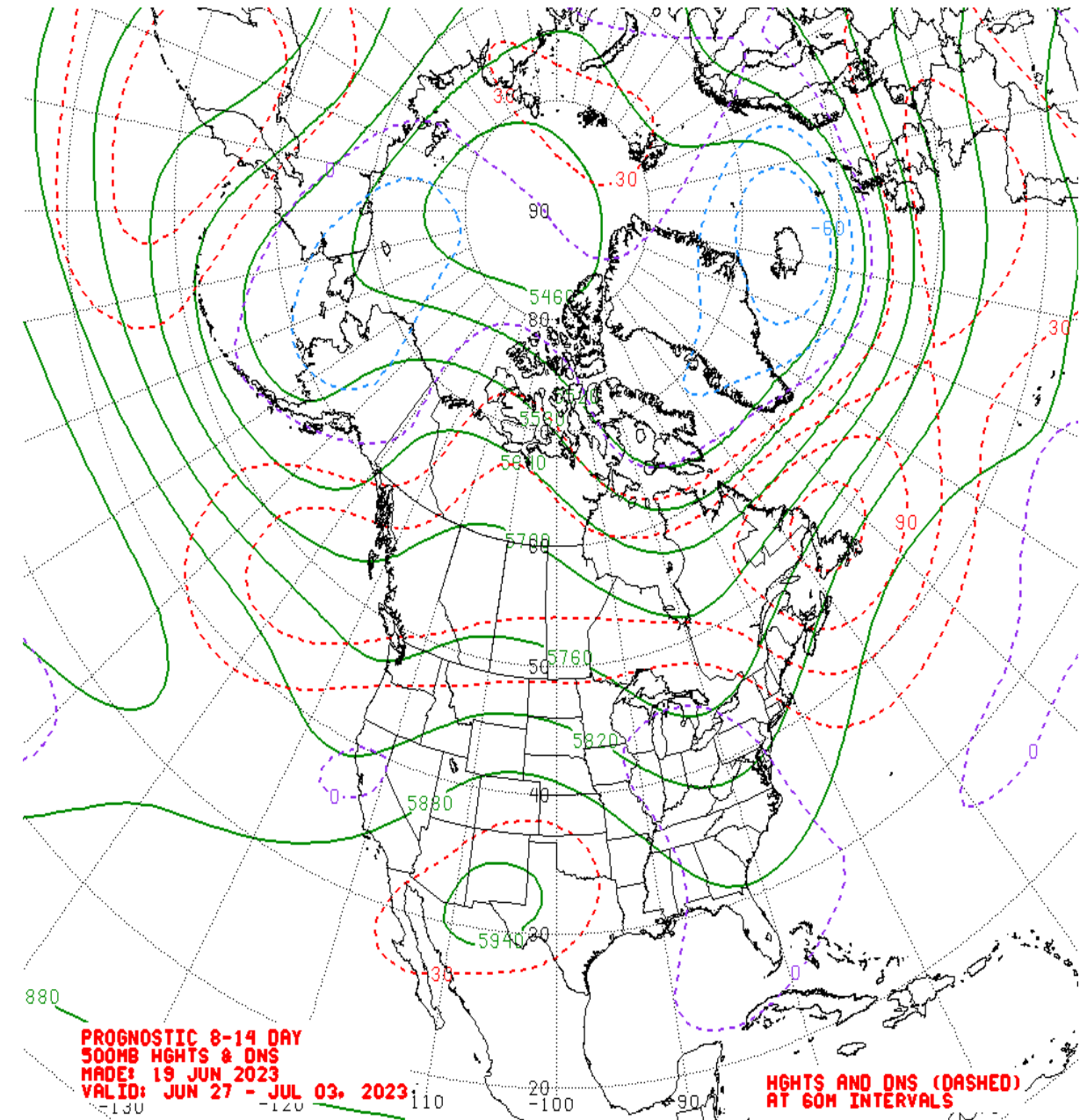
TC development likely within 24 hours (Reference TCFA)



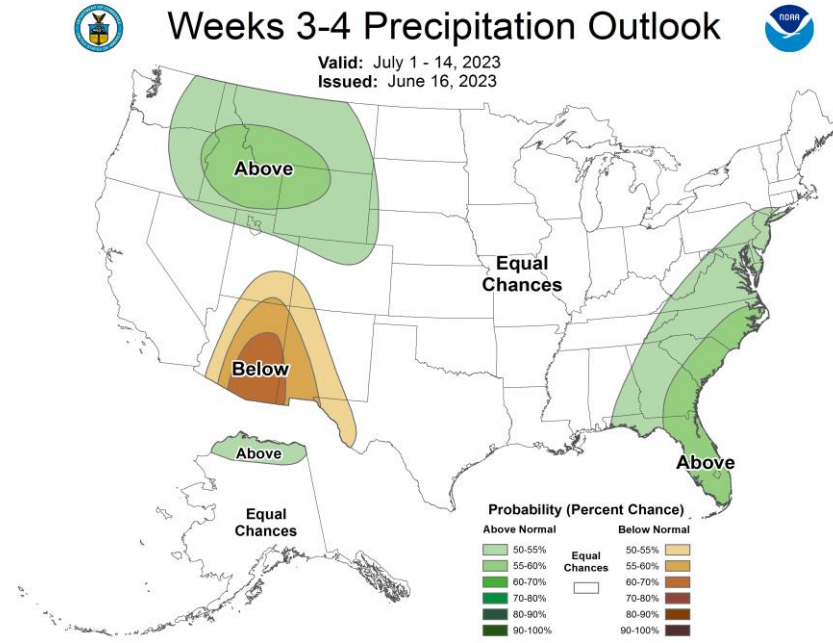
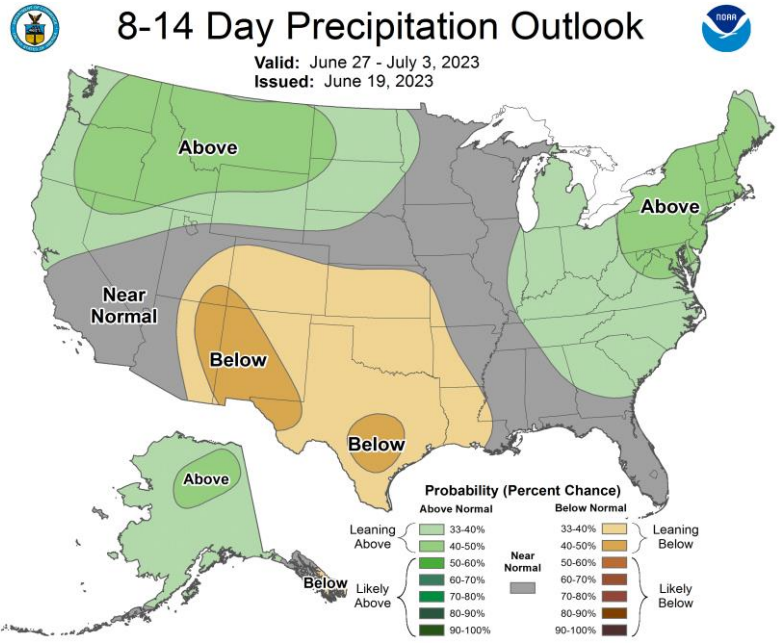
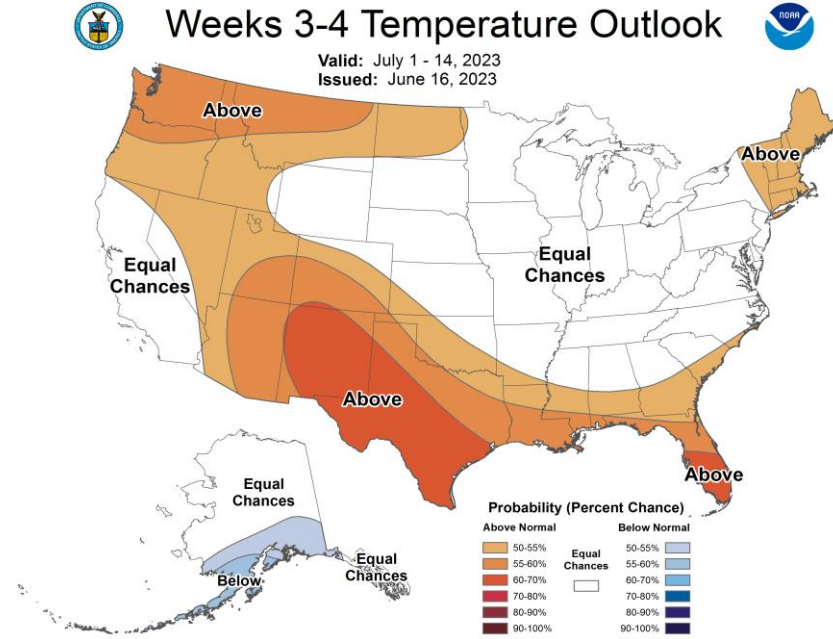
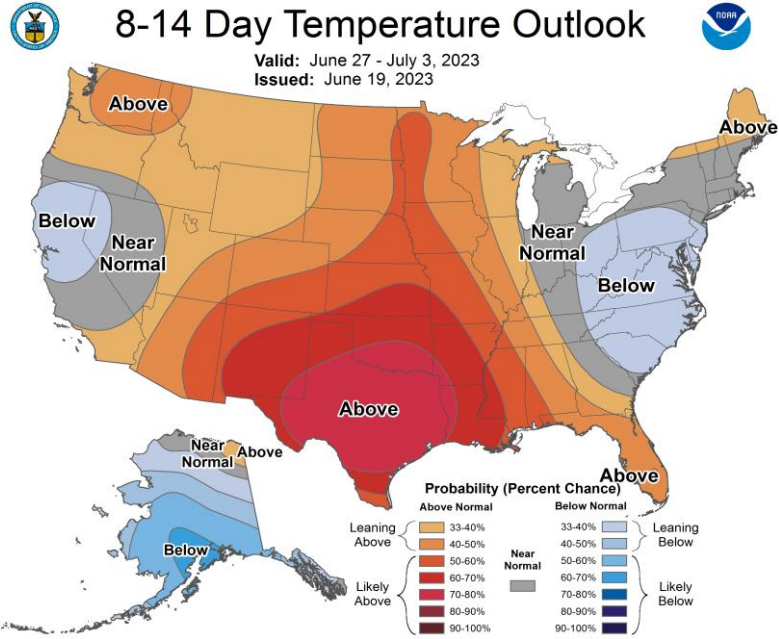
Monitoring for potential transition to TC. Invest label color denotes tropical transition probability

 Tropical Cyclone (Reference Warning)

Mean 500-hPa Height Anomaly Forecasts:



Official Temperature & Precipitation Forecasts:



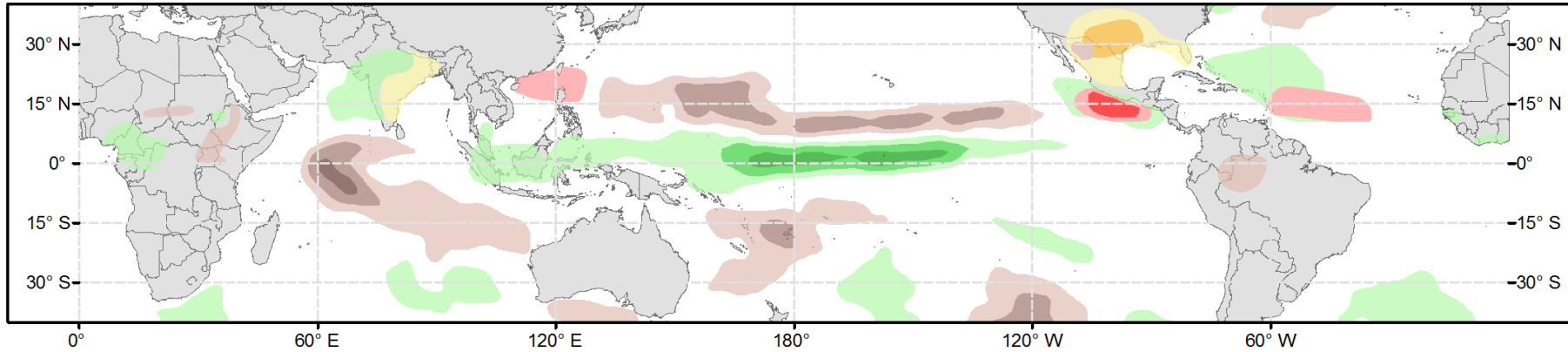


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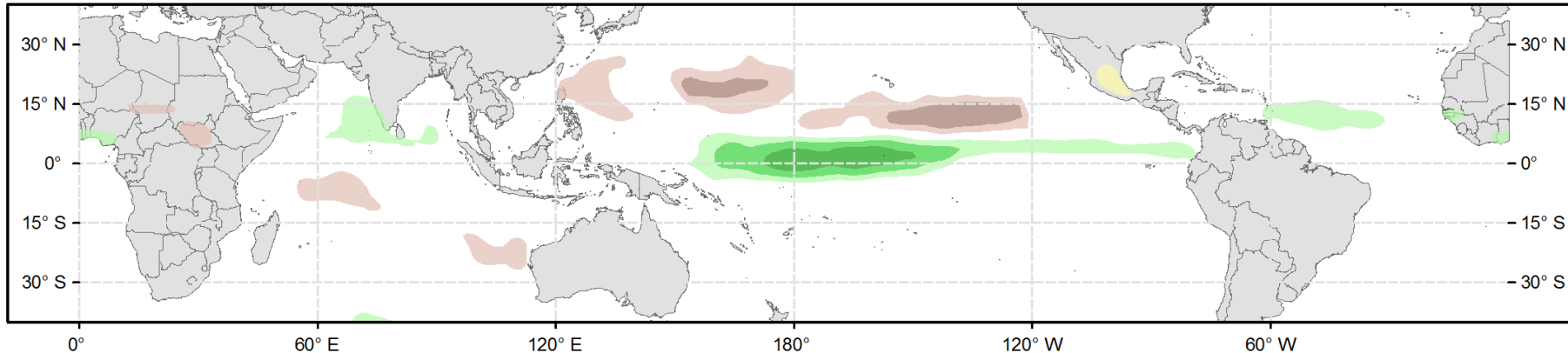
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