



Weeks 2-3 Global Tropics Hazards Outlook

6/24/2025

Brad Pugh

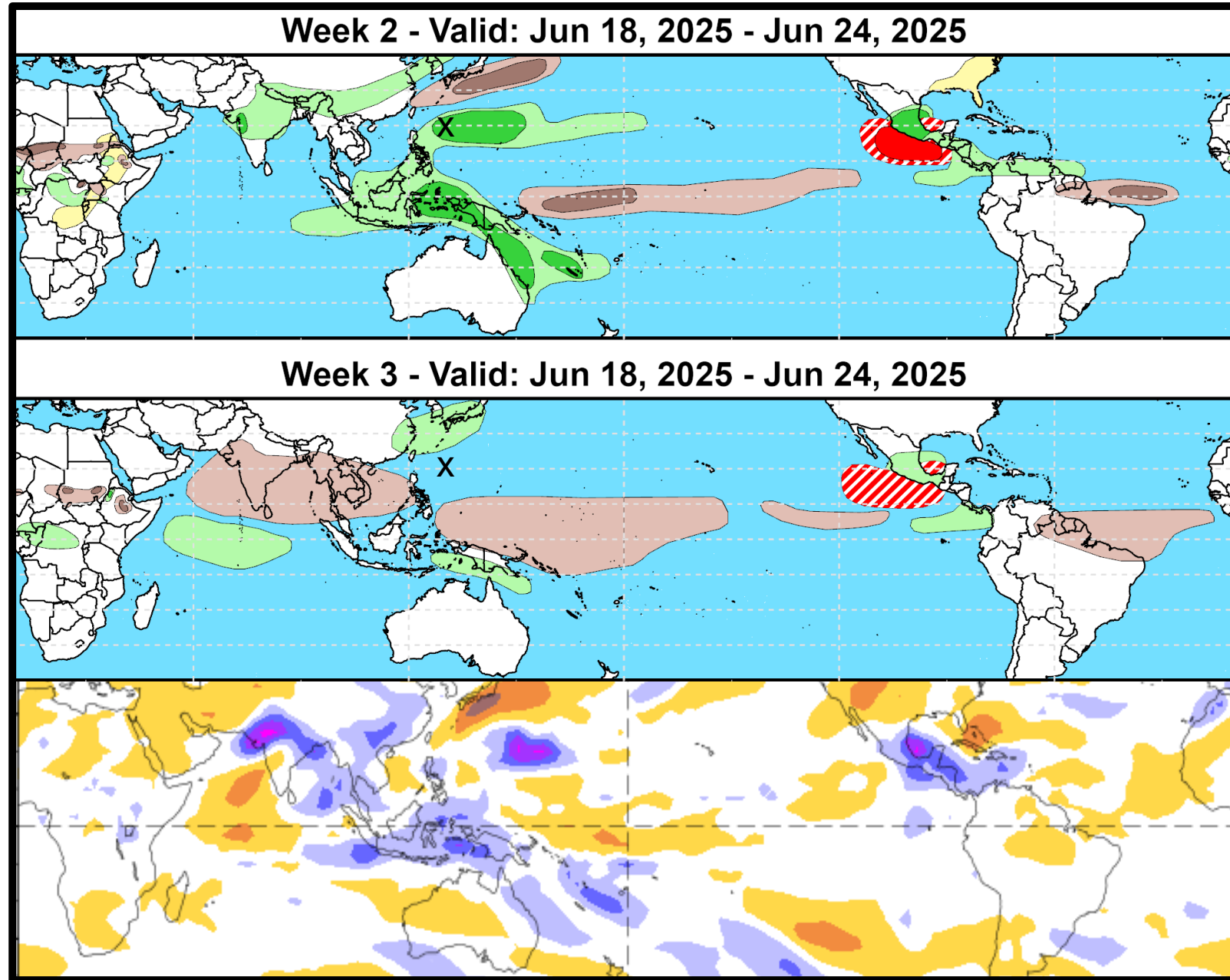
NWS / NCEP / Climate Prediction Center

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

East Pacific: no formation yet since Hurricane Erick

West Pacific: Tropical Storm Sepat

Central Atlantic (35N): Tropical Storm Andrea



Synopsis of Climate Modes:

ENSO: (Jun 12, 2025 Update) *next update on Thursday, Jul 10th*

- ENSO Alert System Status: Not Active
- ENSO-Neutral is likely in the Northern Hemisphere summer 2025 and may continue into winter 2025-26, though confidence is lower.

MJO and other subseasonal tropical variability:

- MJO remains weak as other modes of tropical variability are influencing global tropical rainfall.
- Based on the GFS and ECMWF models, there are no signs of a strengthening MJO during the next two to three weeks.
- The East Pacific is forecast to become less active by mid-July, while an increased chance of tropical cyclone development is forecast for the West Pacific throughout weeks 2 and 3.

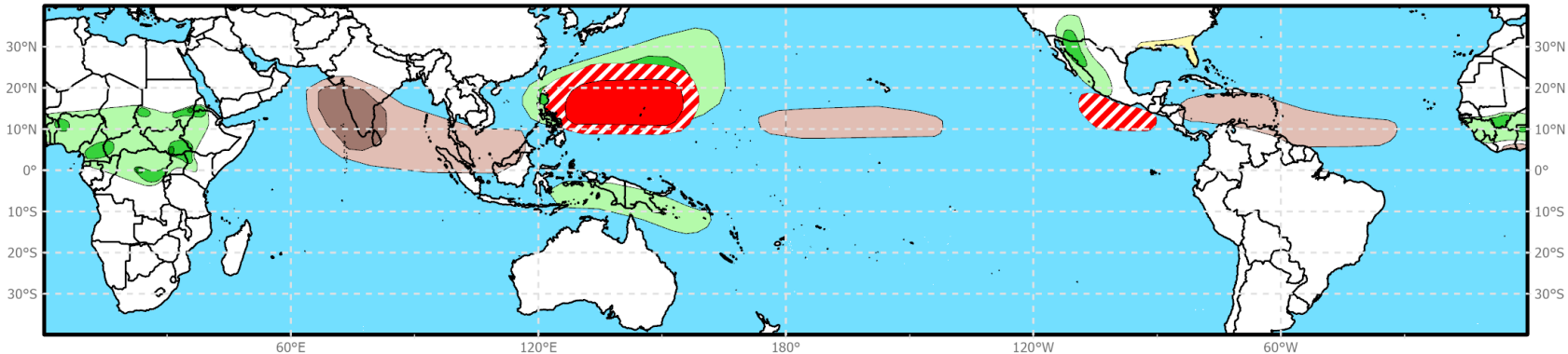


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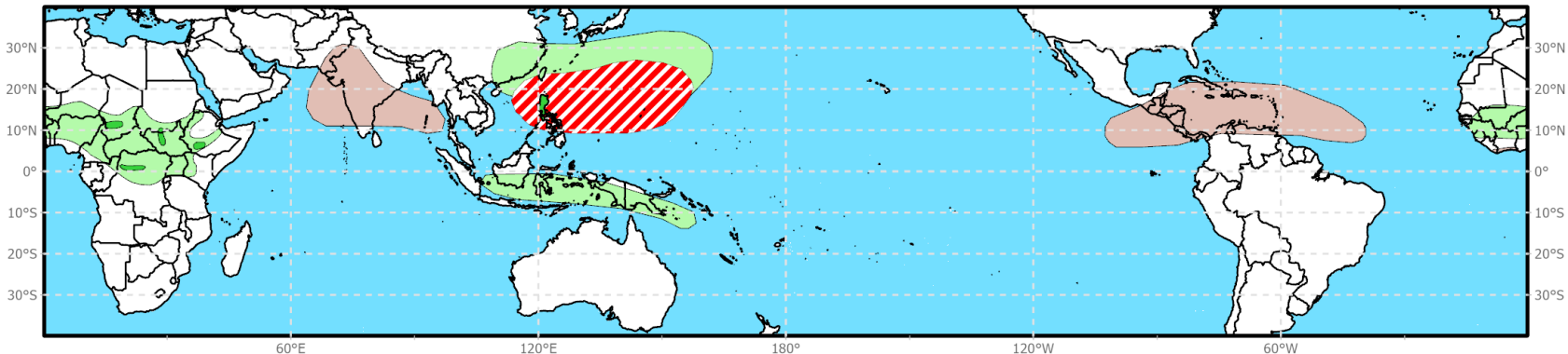
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Week 2 - Valid: Jul 02, 2025 - Jul 08, 2025



Week 3 - Valid: Jul 09, 2025 - Jul 15, 2025



**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**



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*Weekly total rainfall in the
Lower third of the historical range*

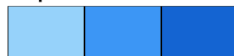
**Above-Average
Temperatures Probability**



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*7-day mean temperatures in the
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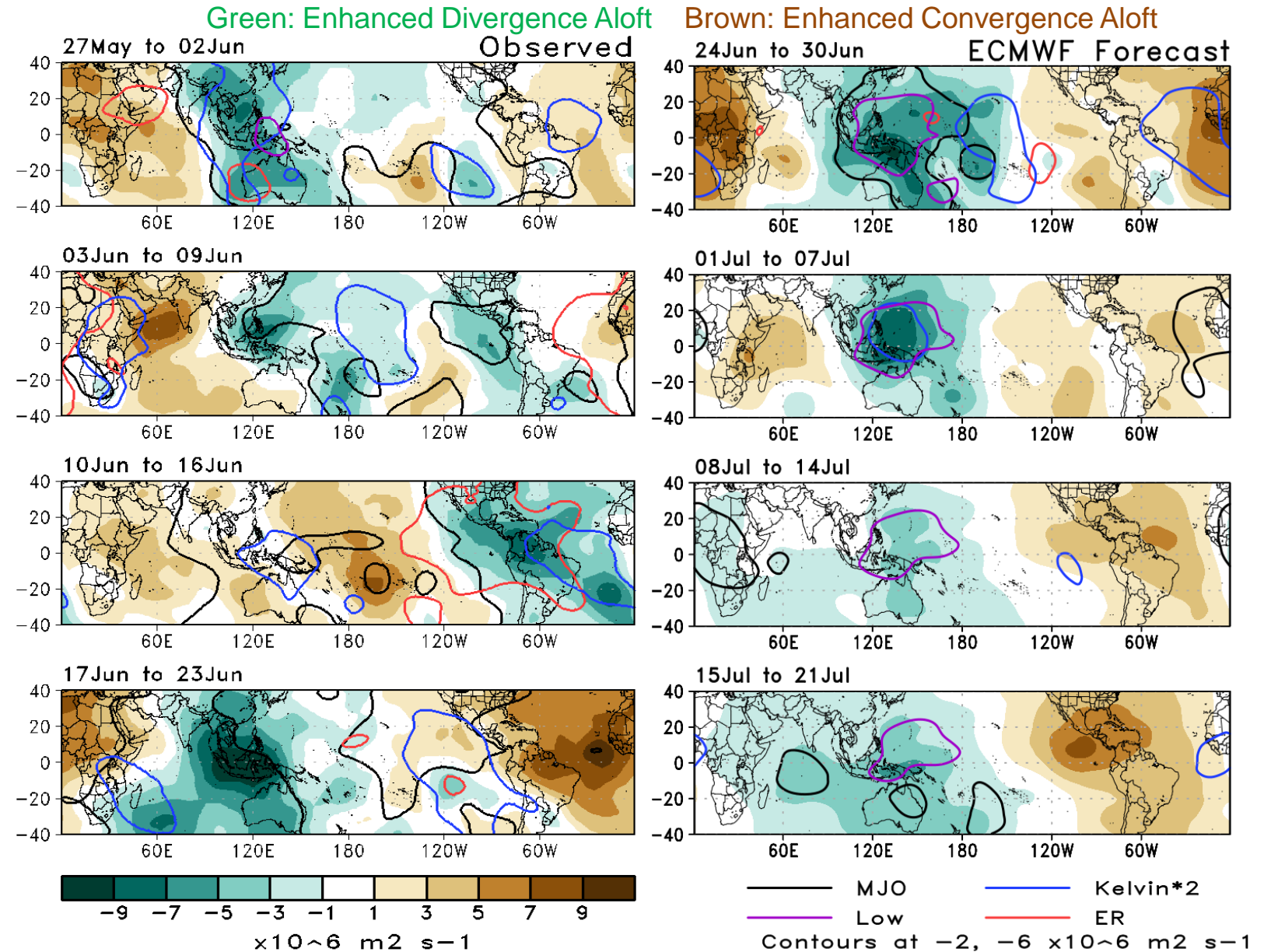
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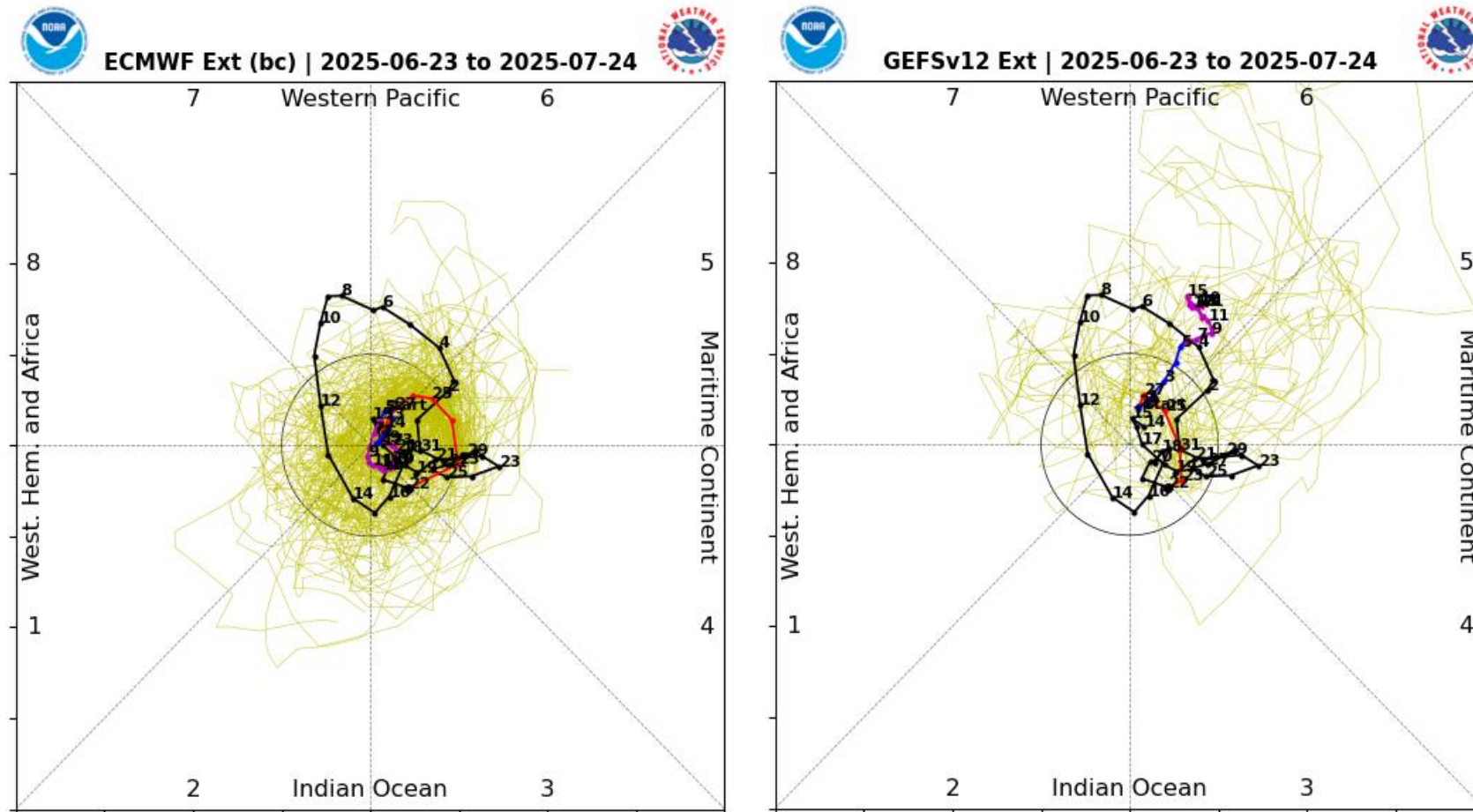
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Consult your local responsible forecast agency.

200-hPa Velocity Potential Anomaly Maps:

- Enhanced divergence aloft is forecast to persist over the West Pacific.
- Conversely, enhanced convergence aloft is expected to strengthen over the Caribbean Sea, Central America, and the East Pacific during mid-July.

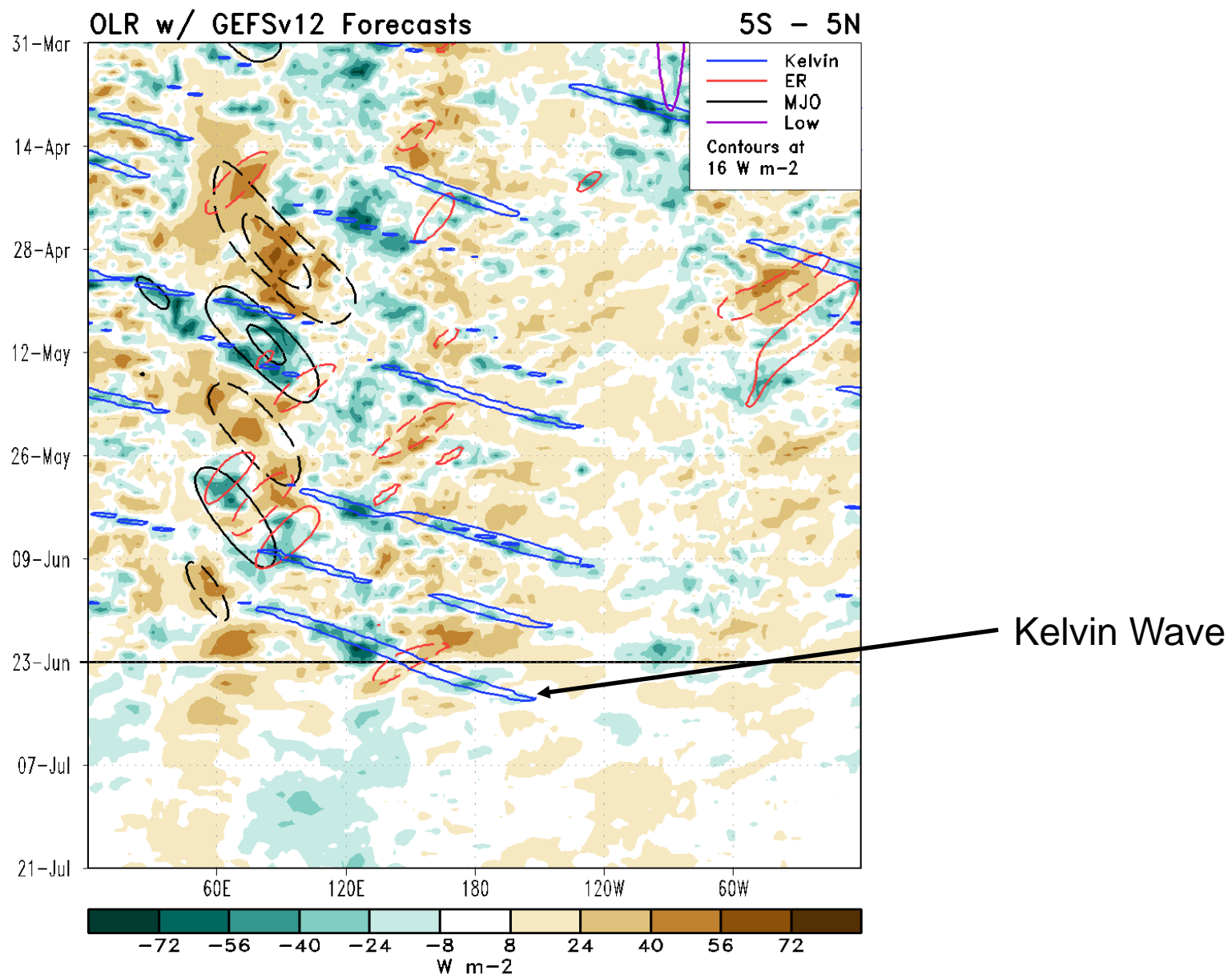


RMM Index Observations & Forecasts:

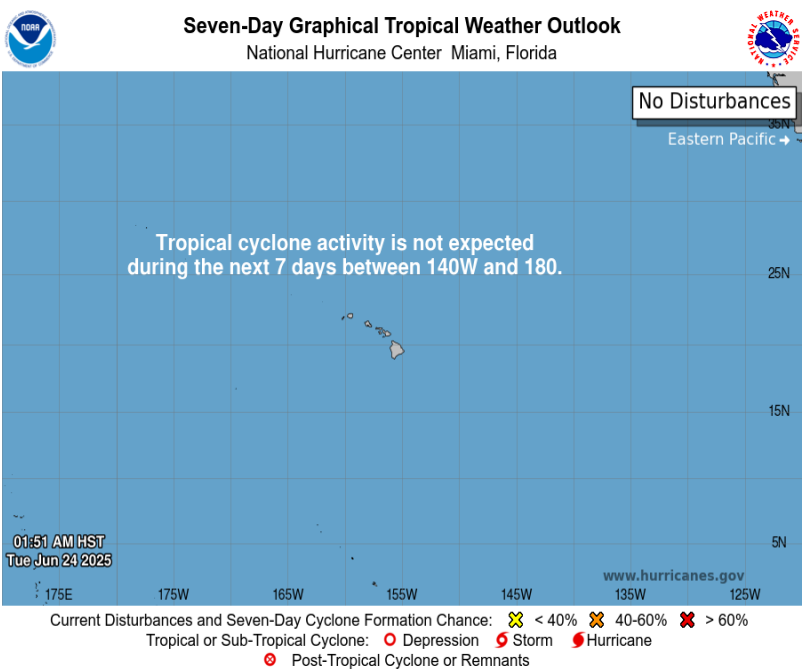
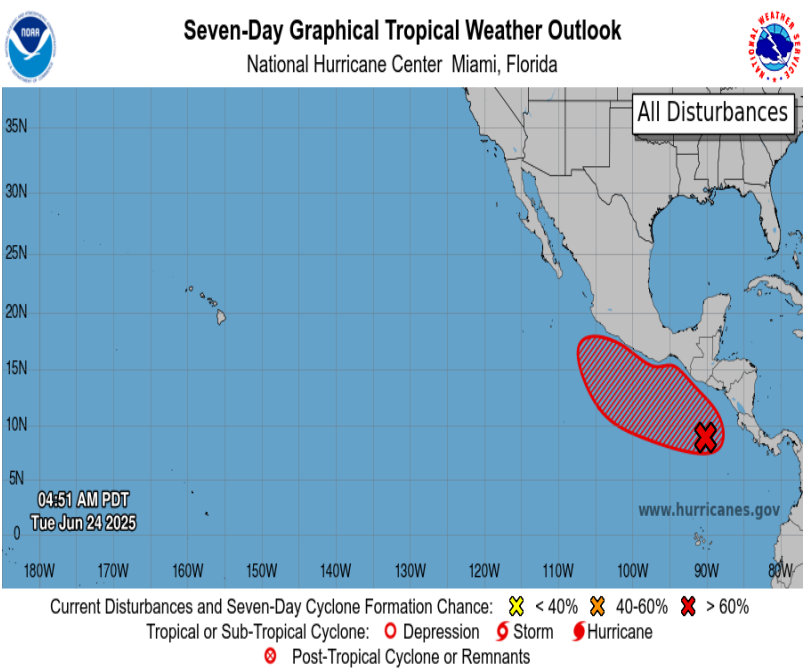
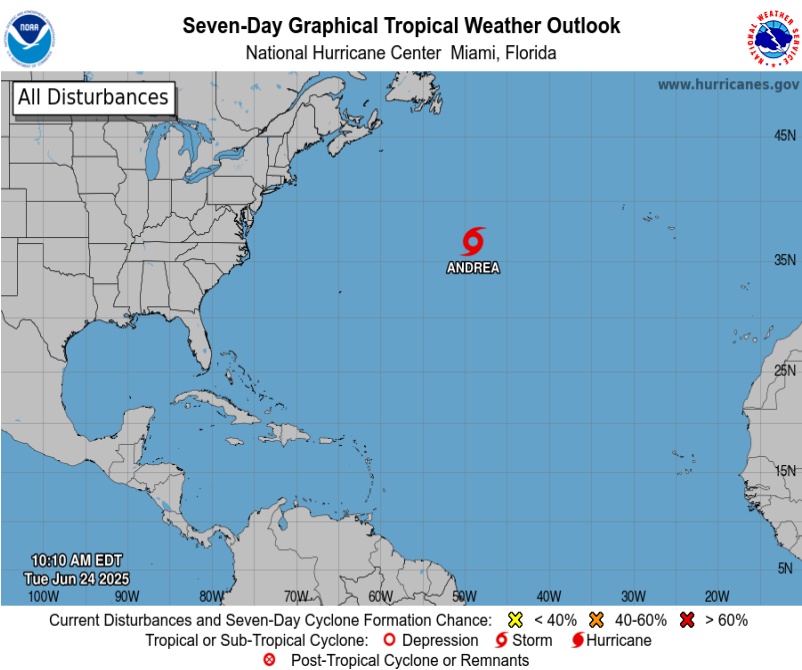


- Ensemble spread is large among the dynamical models with no consensus for a strengthening MJO.
- Several GEFS members depict a higher amplitude of the RMM index (phases 5 and 6) but with little eastward propagation.

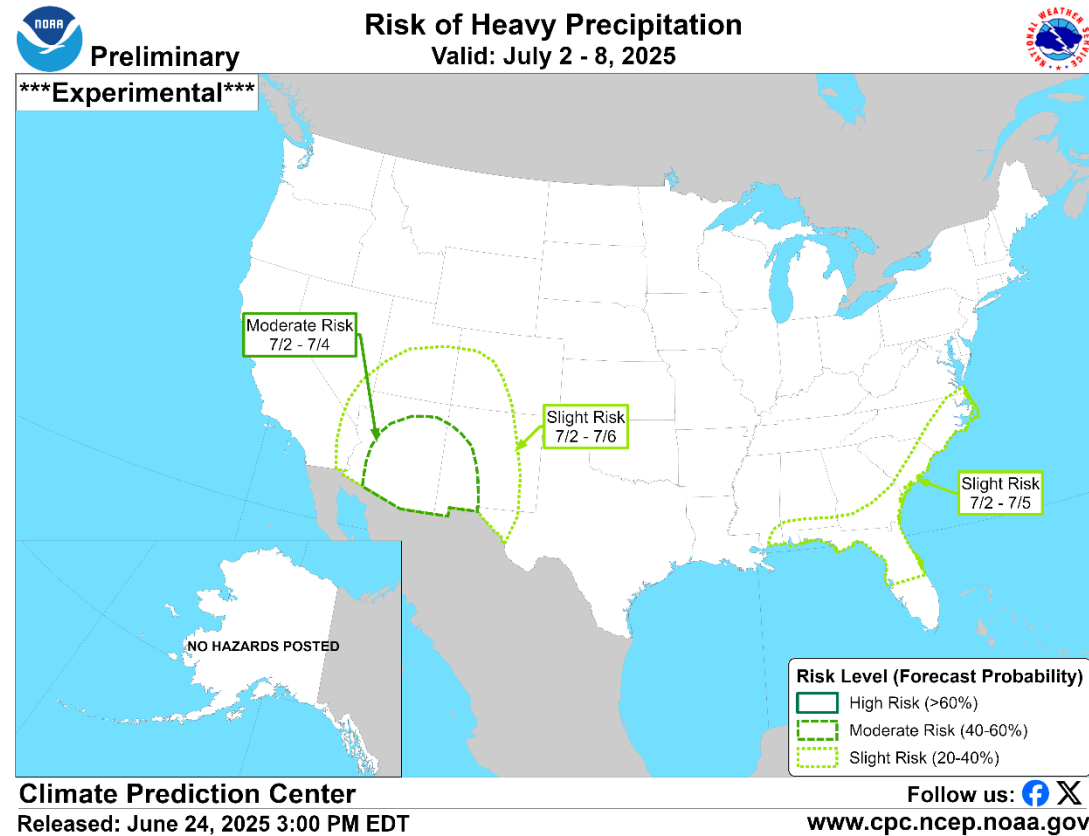
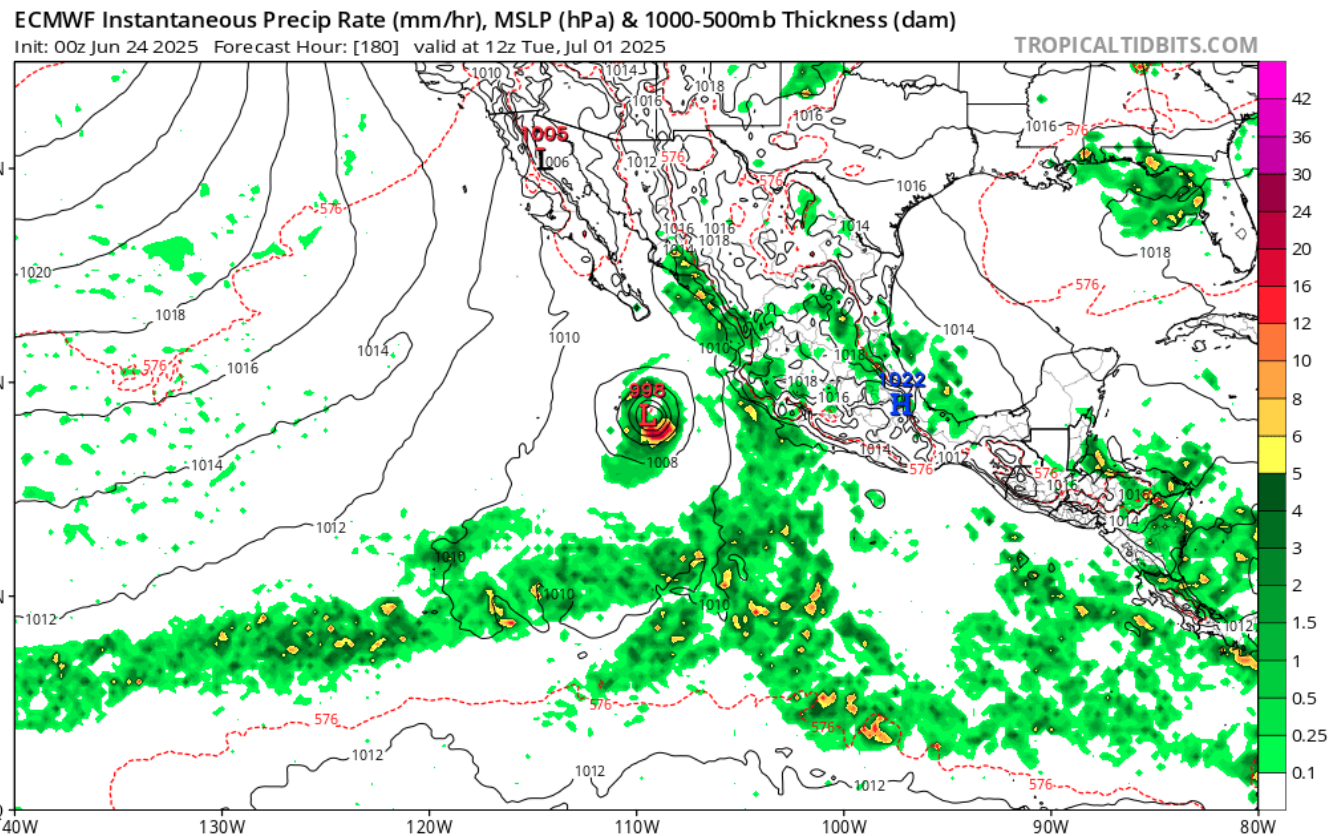
Outgoing Longwave Radiation (OLR) Anomaly Time/Lon Plots:



Tropical Cyclone Monitoring/Forecast: NHC / CPHC



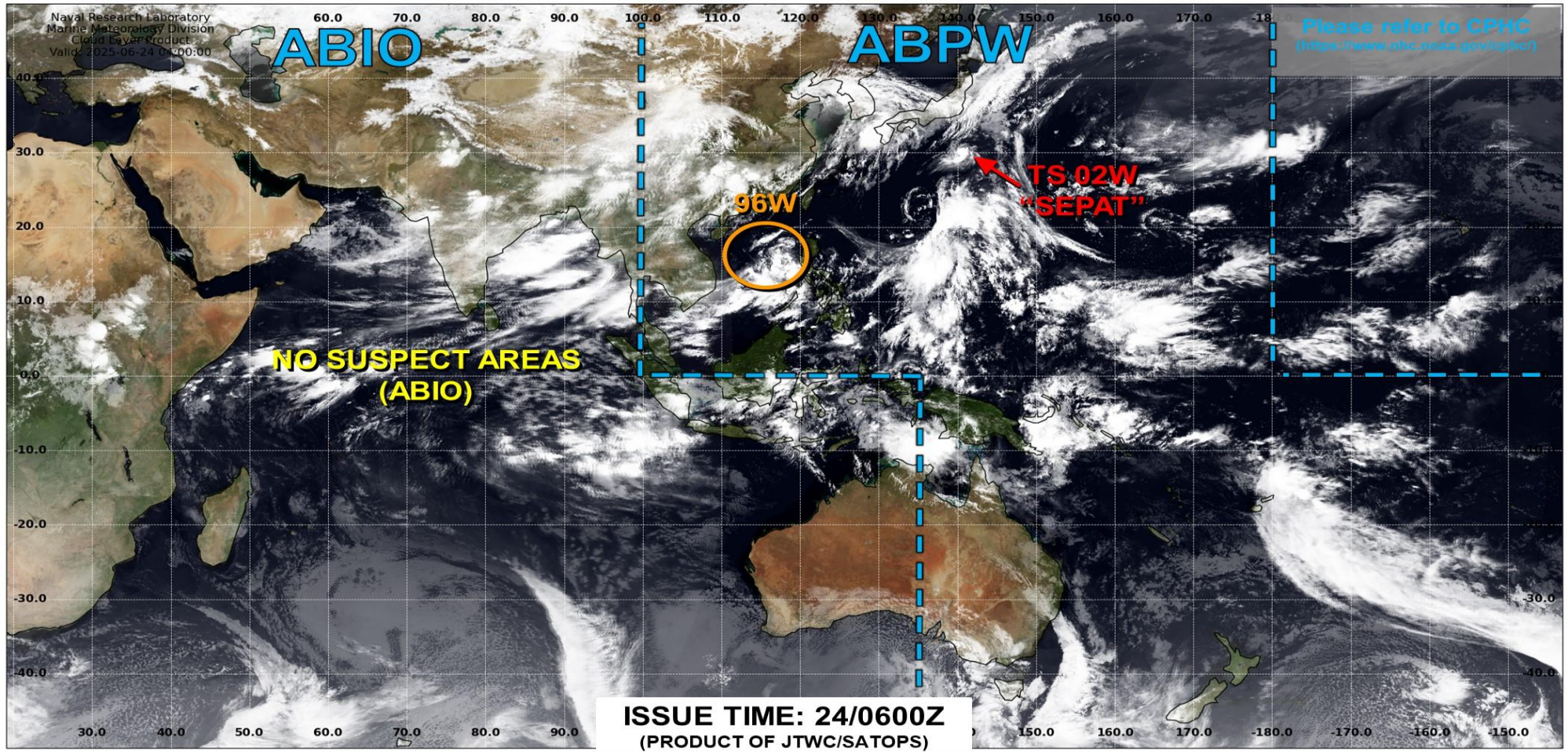
Southwestern United States: Heavy Precipitation and Flash Flooding



Tropical Cyclone Monitoring/Forecast: JTWC



JOINT TYPHOON WARNING CENTER



LOW TC development unlikely within 24 hours

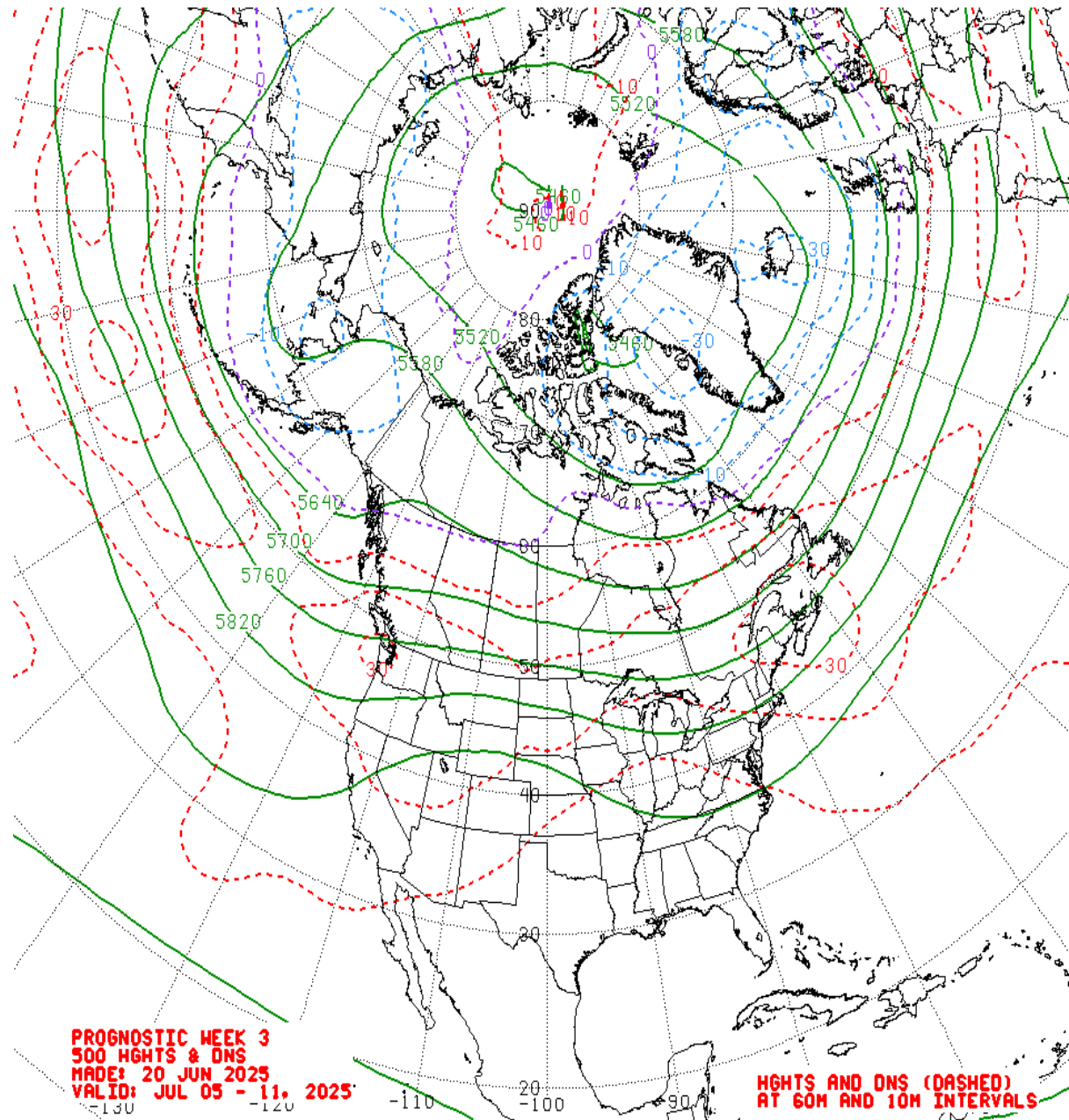
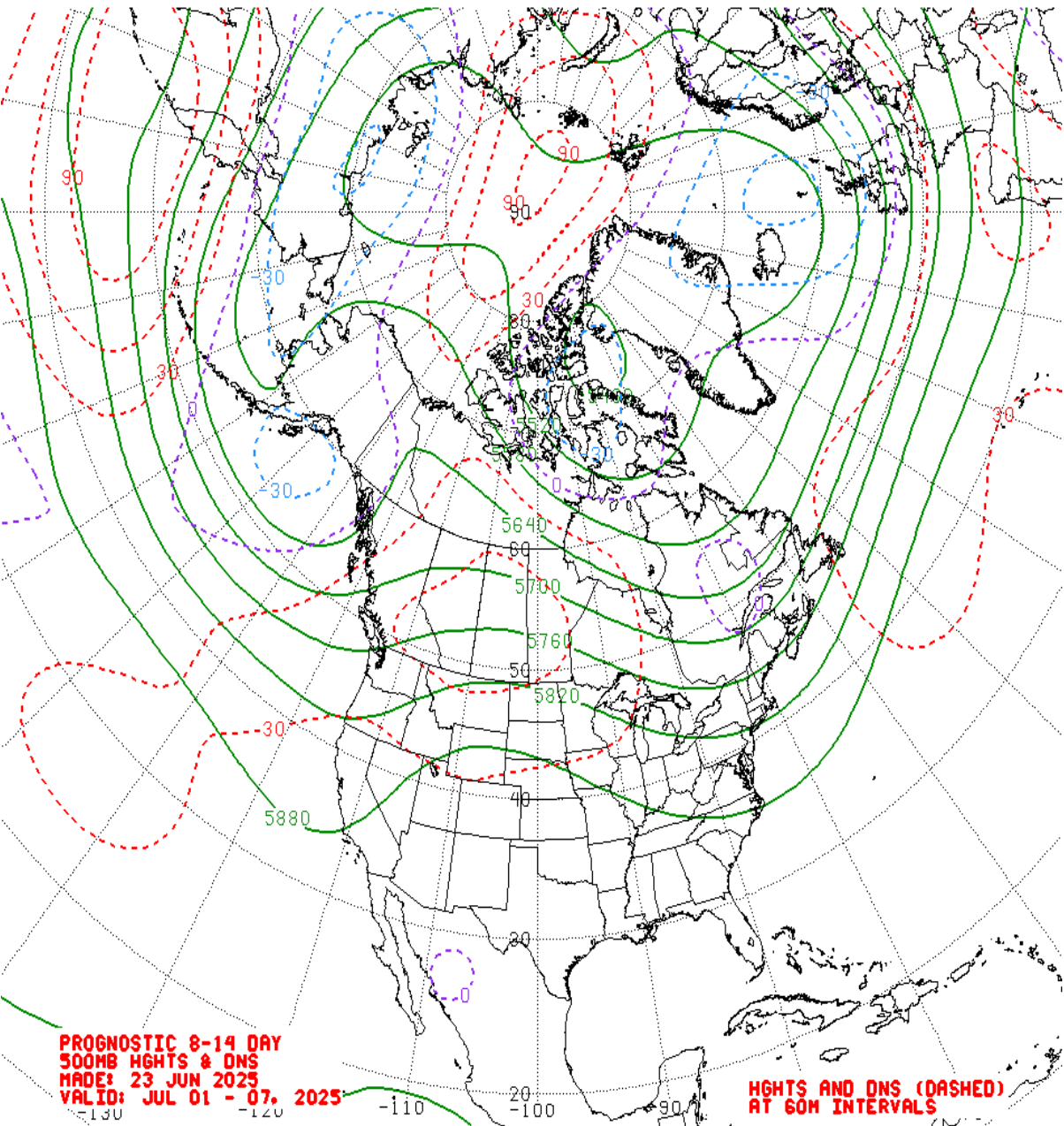
MEDIUM TC development likely, but expected to occur beyond 24 hours

HIGH TC development likely within 24 hours (Reference TCFA)

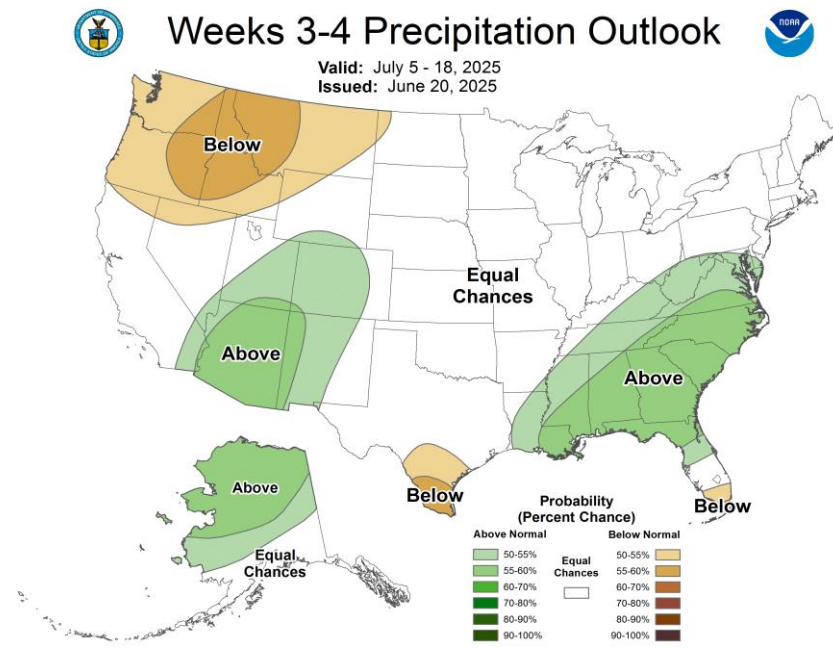
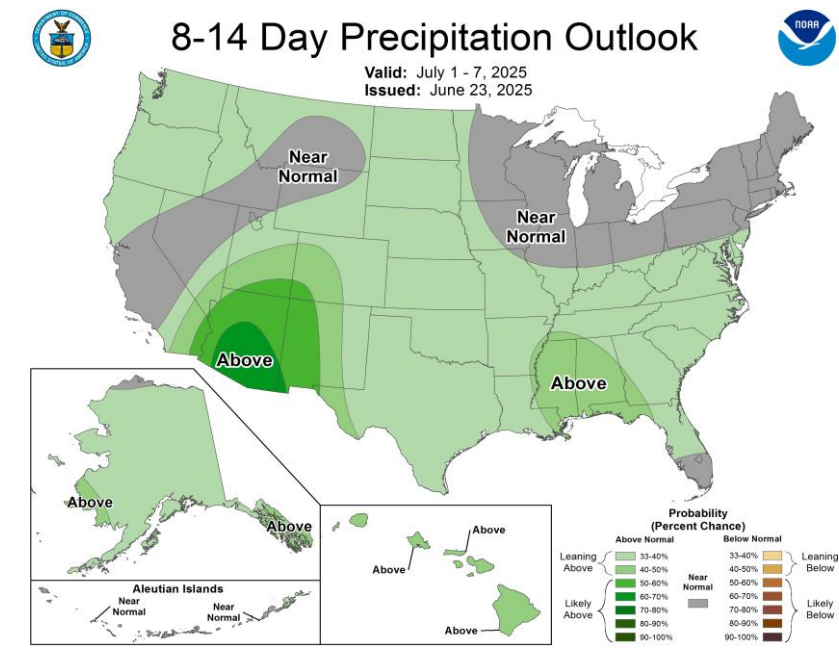
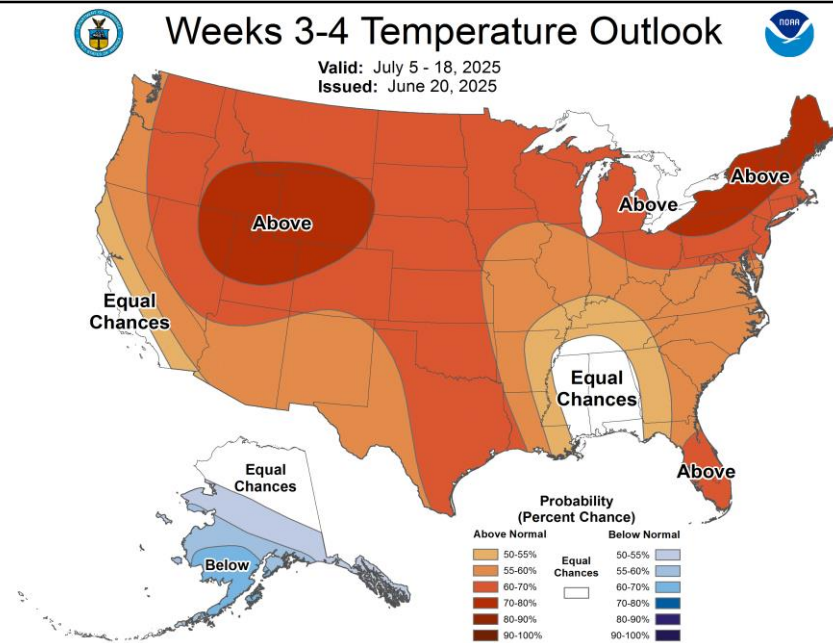
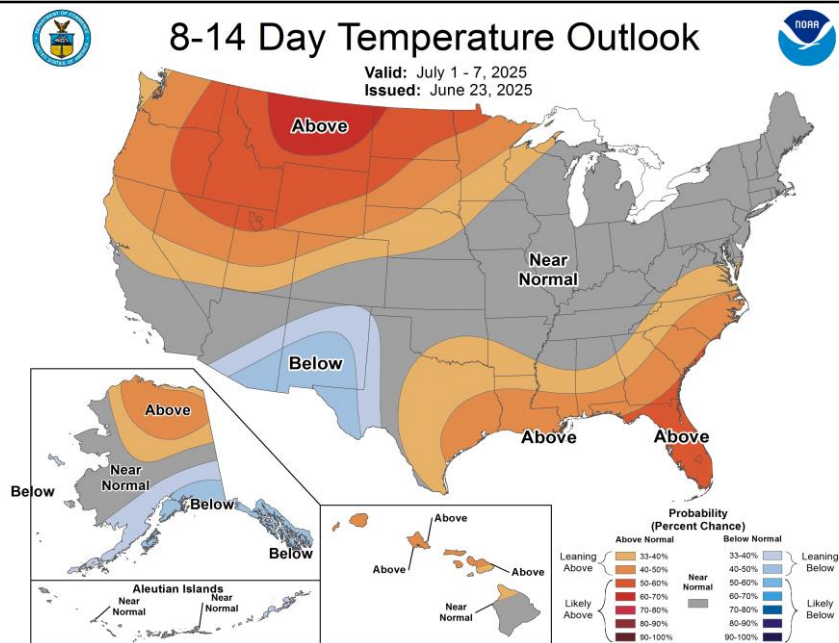
SUB TROPICAL Monitoring for potential transition to TC. Invest label color denotes tropical transition probability

Tropical Cyclone (Reference Warning)

Mean 500-hPa Height Anomaly Forecasts: Weeks 2+3



Official Temperature & Precipitation Forecasts:



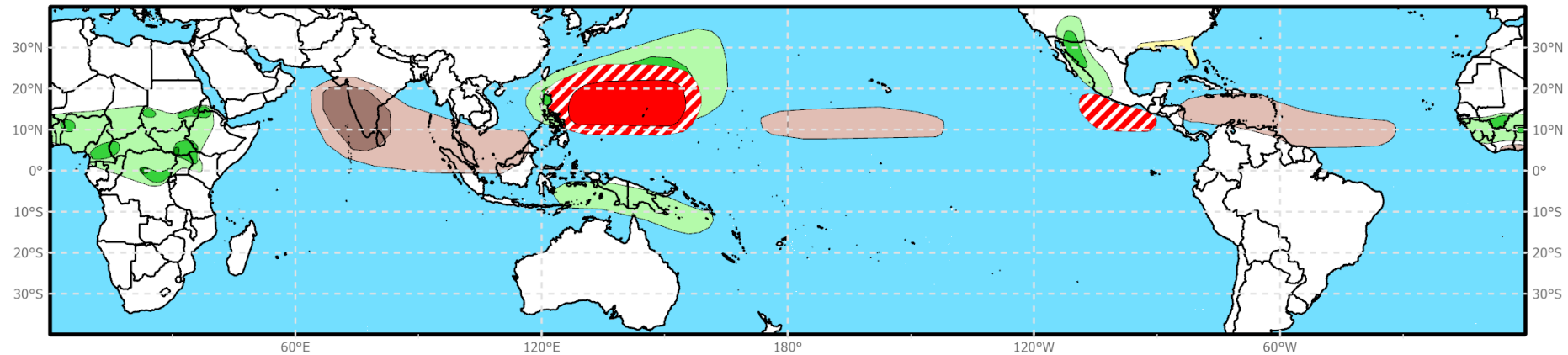


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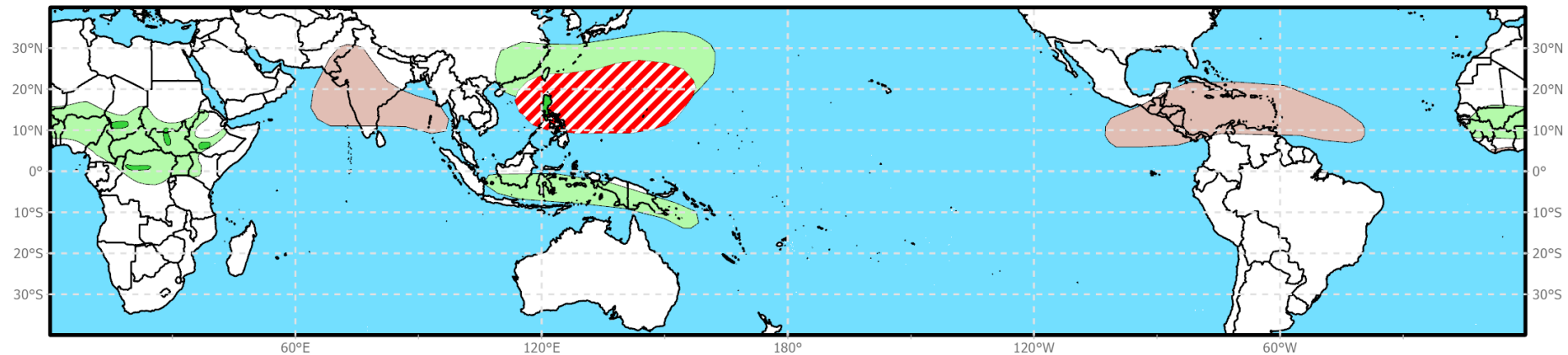
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