

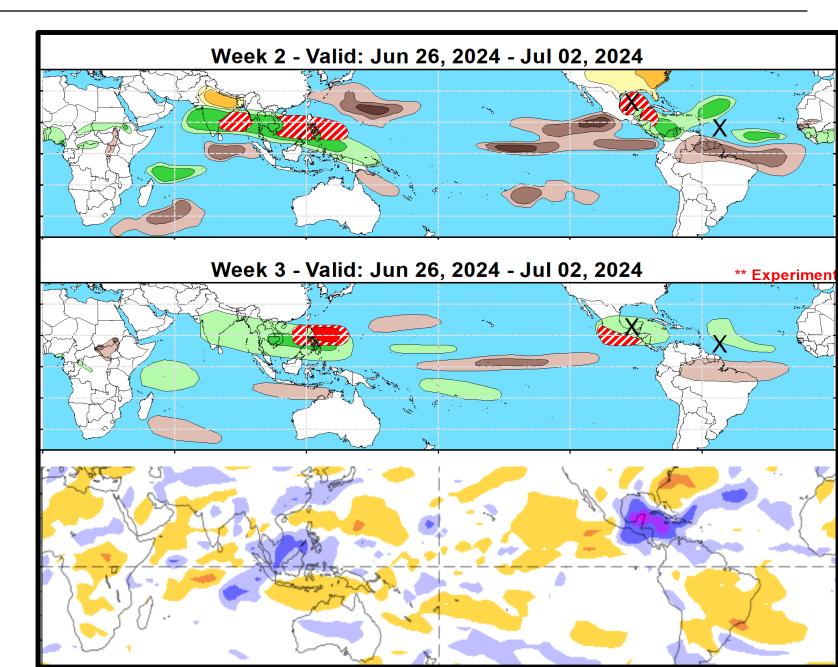


Weeks 2-3 Global Tropics Hazards Outlook 7/2/2024

Nick Novella NWS / NCEP / Climate Prediction Center

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

- ATL: TC Chris
- ATL: TC Beryl



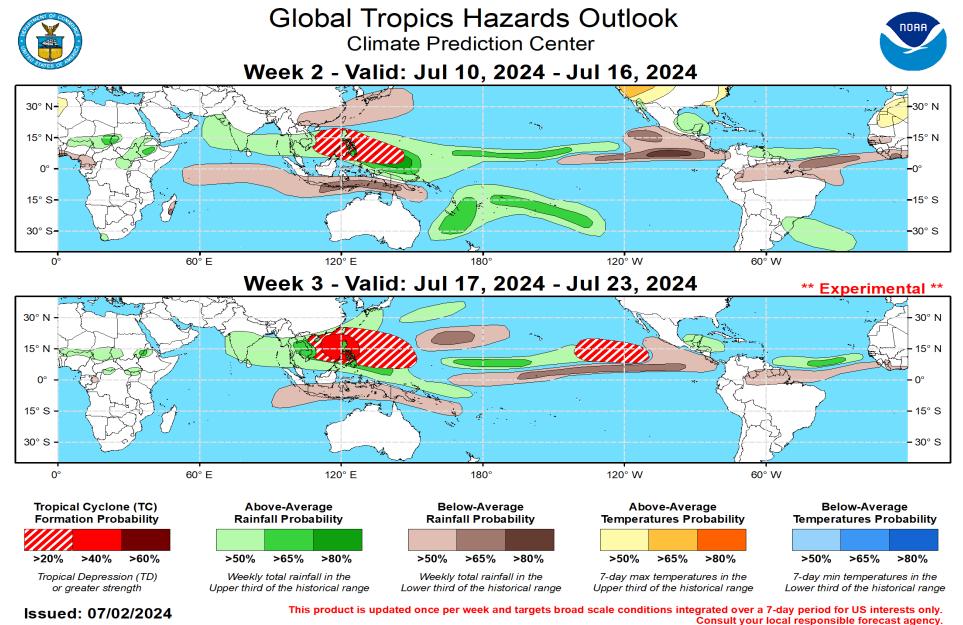
ENSO: (Jun 13, 2024 Update) next update on Thursday, Jul 11th

- ENSO Alert System Status: Final El Niño Advisory / La Niña Watch
- ENSO-neutral conditions are present. La Niña is favored to develop during Jul-Aug-Sep (65% chance) and persist into the Northern Hemisphere winter 20224-25 (85% chance during Nov-Dec-Jan)

MJO and other subseasonal tropical variability:

- The MJO has been largely incoherent for much of June, but has shown signs of renewed activity during the past week over the Indian Ocean.
- While RMM forecasts generally favor a low amplitude MJO crossing the Maritime Continent (weeks1-2), and reaching the western Pacific (week-3), upper-level velocity potential forecasts point to more coherent intraseasonal activity later in July.
- Based on these forecasts, the MJO looks to constructive interfere with an persistent (low frequency) area of enhanced divergence aloft over Maritime Continent and provide favorable conditions for tropical cyclogenesis across the western Pacific.
- Conversely, there are decreased chances for additional tropical cyclone development in eastern Pacifiic and Atlantic towards the middle of July.

GTH Outlook:

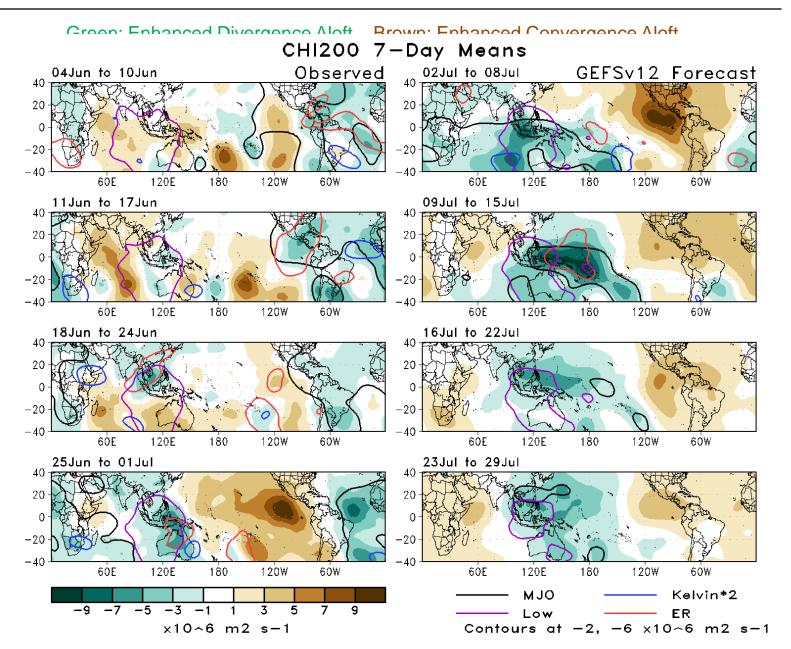


Forecaster: Novella

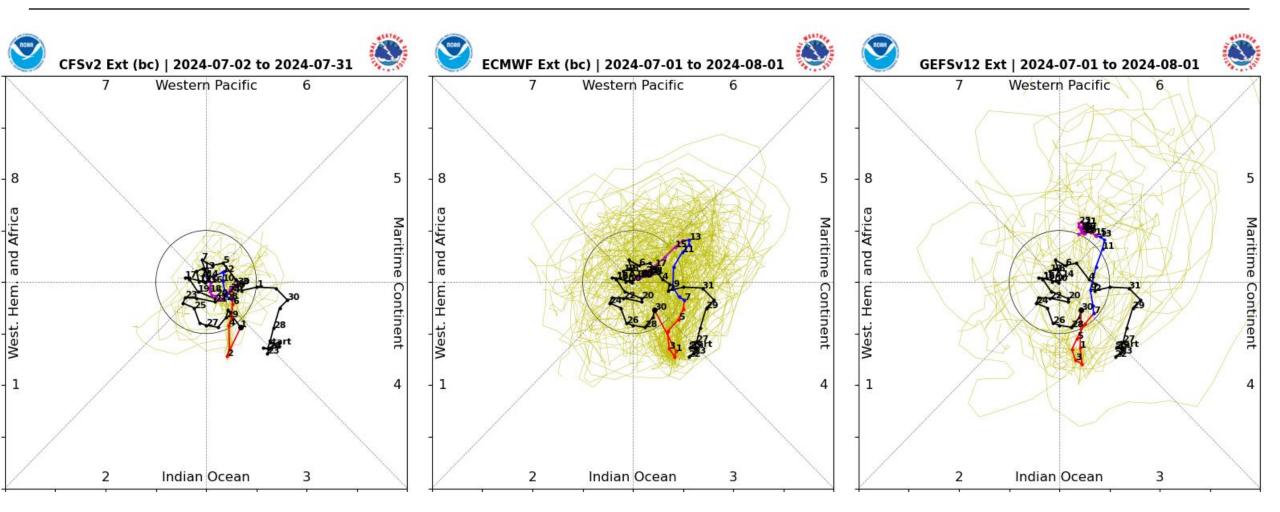
200-hPa Velocity Potential Anomaly Maps:

- During late June, a wave-1 pattern became more evident in the observations consistent with renewed MJO activity.
- A wave-1 pattern remains evident in the forecasts, with MJO activity coming through the filtering but maintains a slow phase speed.
- The MJO looks to constructively interfere with Low-frequency variability and equatorial Rossby wave activity towards the middle of July
- The suppressed phase of the MJO is favored to overspread the tropical Americas, Atlantic and Africa.

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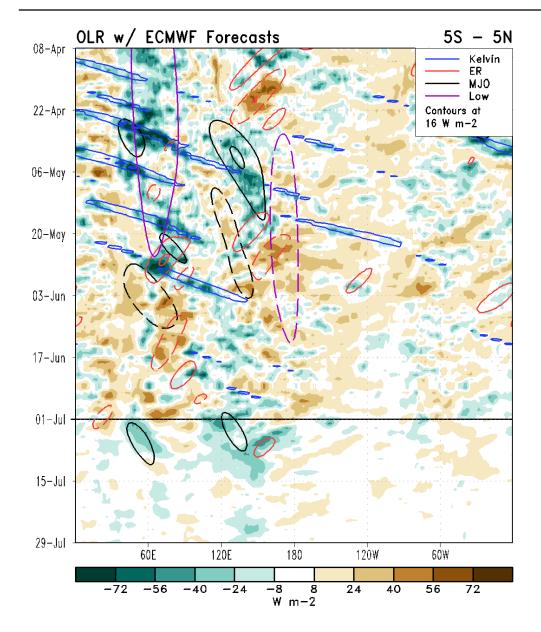


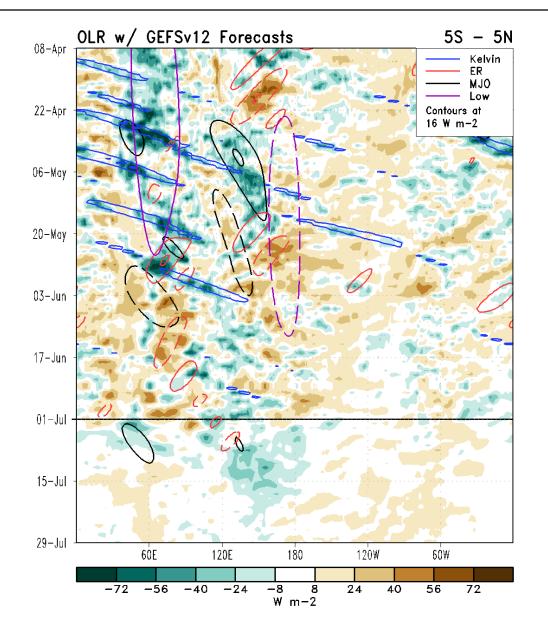
RMM Index Observations & Forecasts:



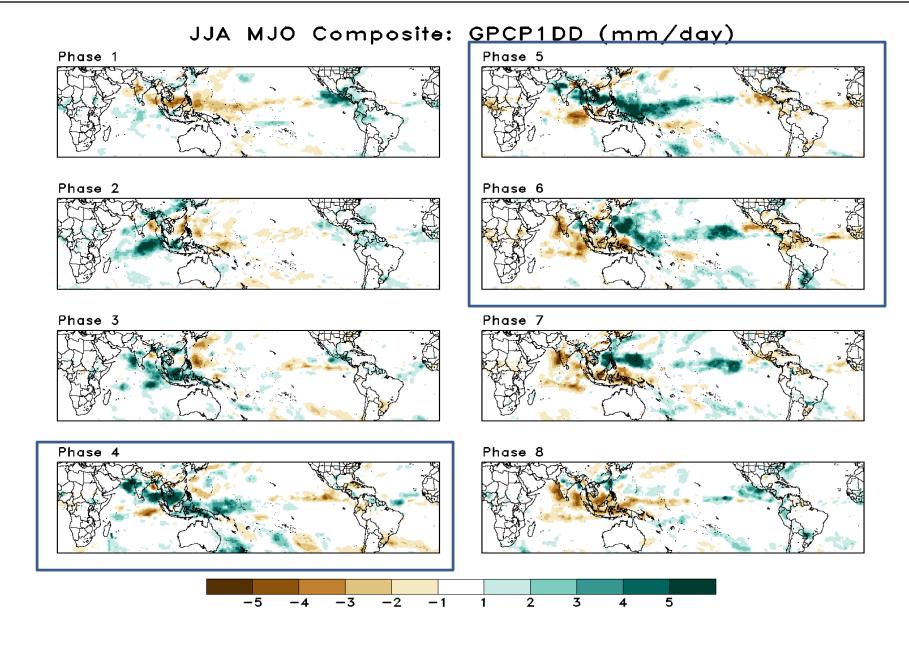
• Consistent with previous RMM forecast, models generally favor an eastward propagating MJO signal, but maintain a low amplitude with high ensemble spread at longer leads.

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

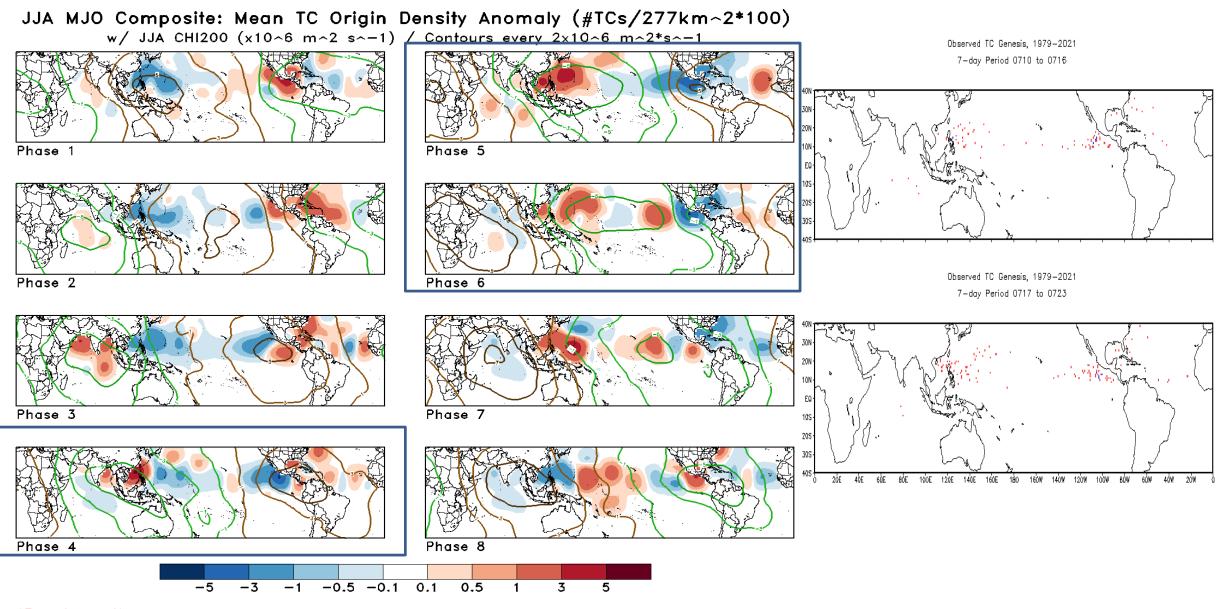




Historical Precipitation Anomalies By MJO Phase:

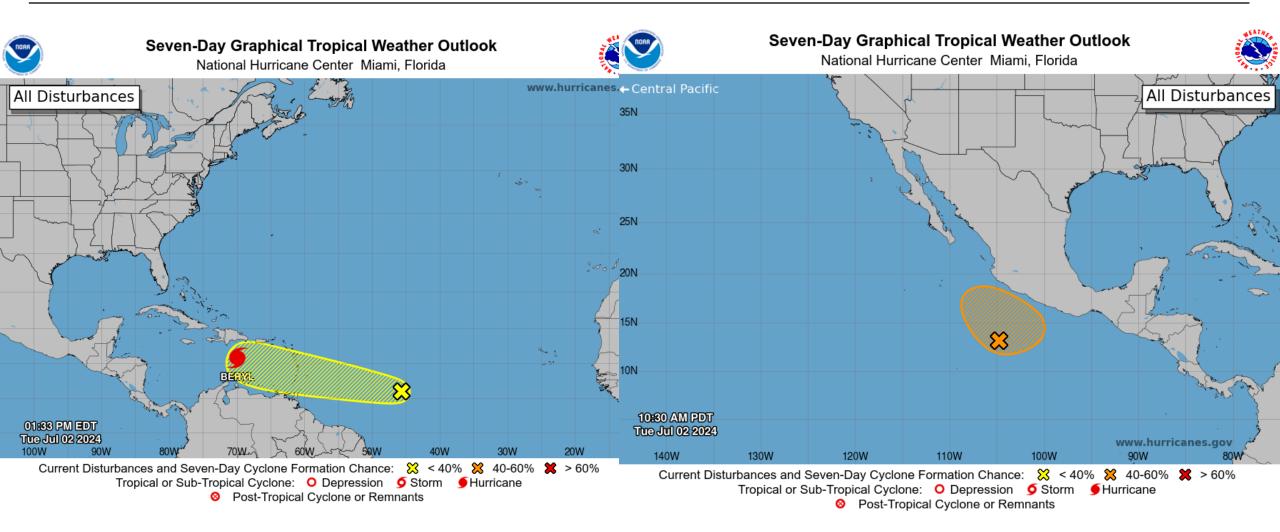


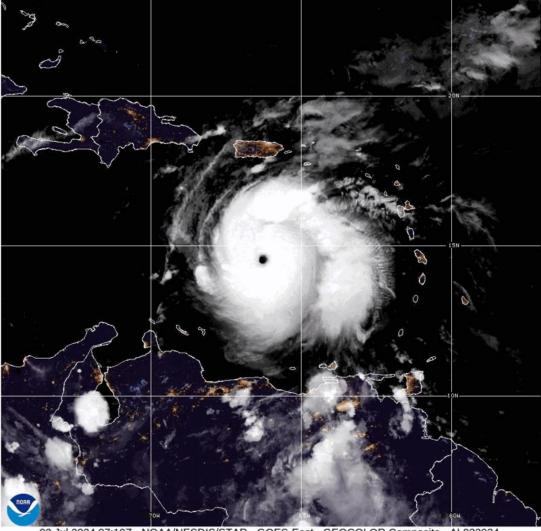
Historical TC Origin Anomalies By MJO Phase & Weeks 2+3 Genesis Climo:



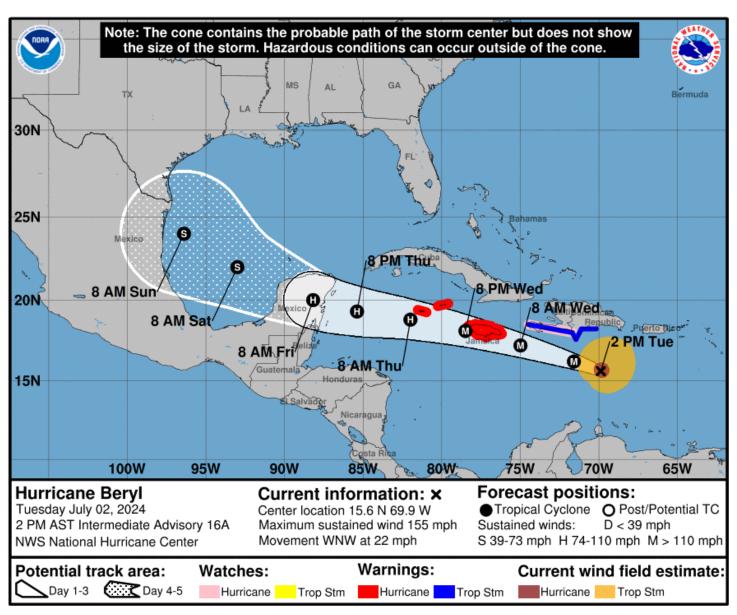
Experimental

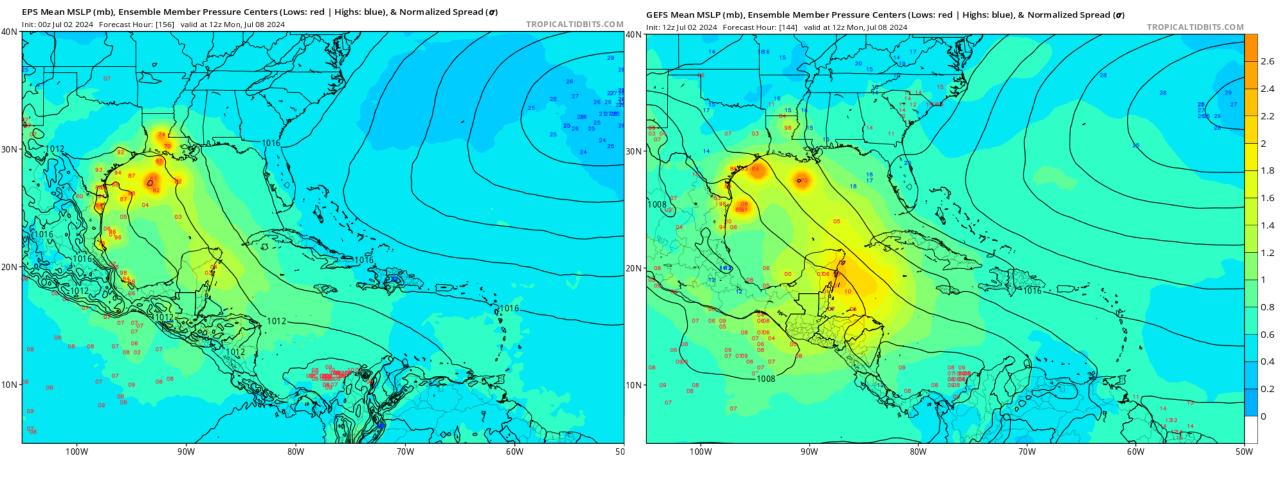
Tropical Cyclone Monitoring/Forecast: NHC / CPHC



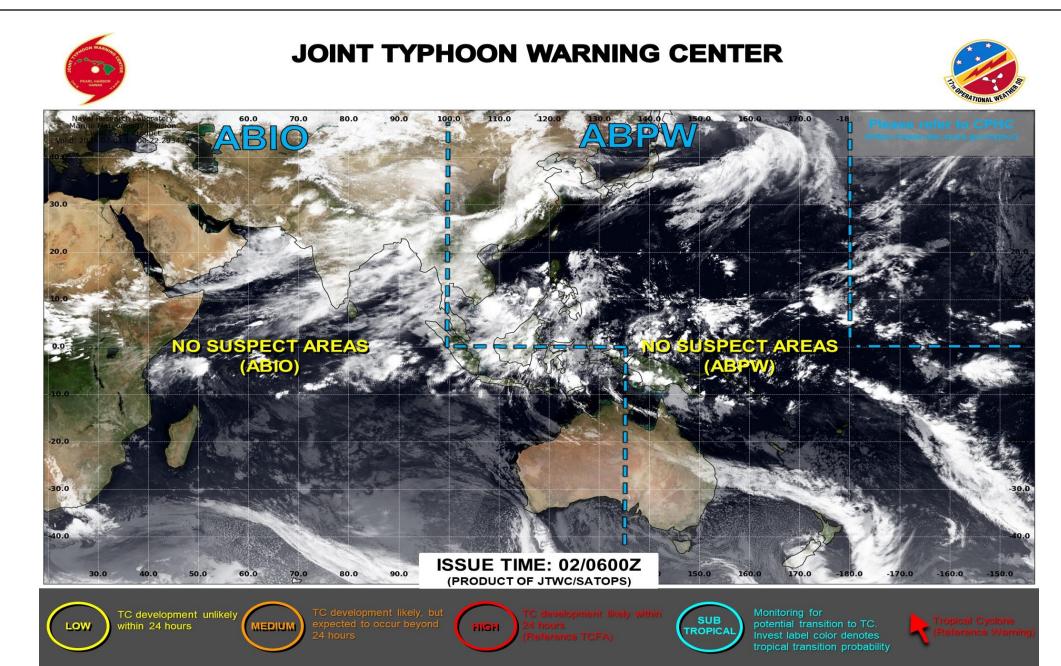


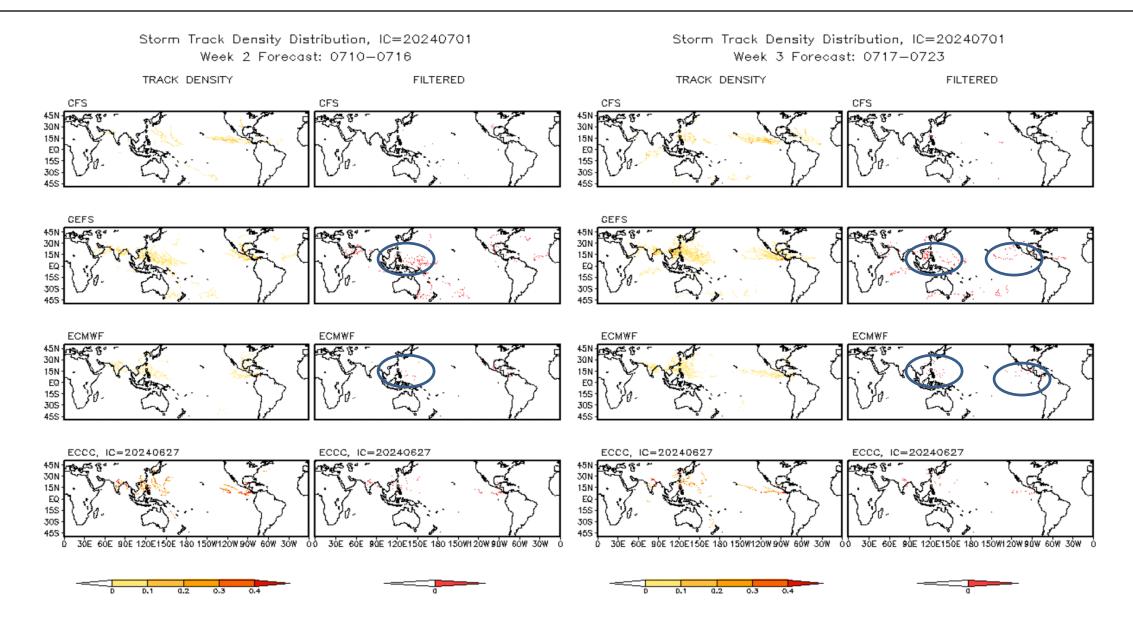
02 Jul 2024 07:10Z - NOAA/NESDIS/STAR - GOES-East - GEOCOLOR Composite - AL022024

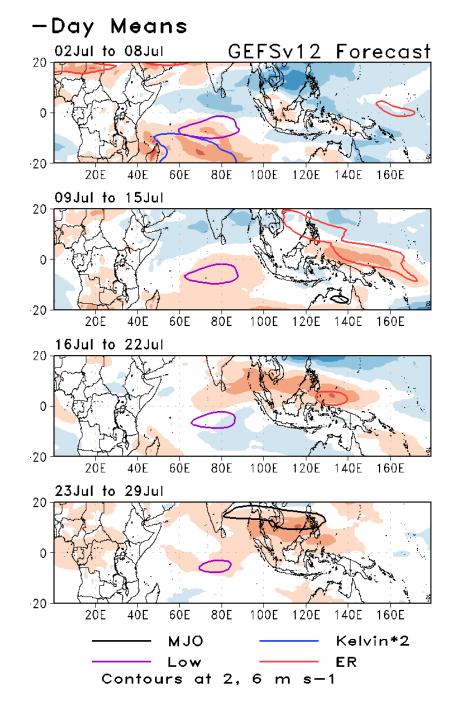




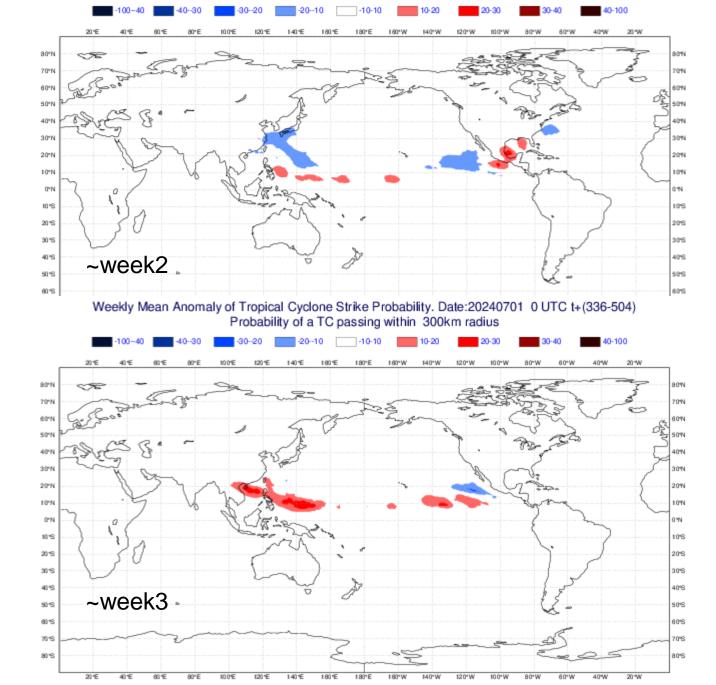
Tropical Cyclone Monitoring/Forecast: JTWC

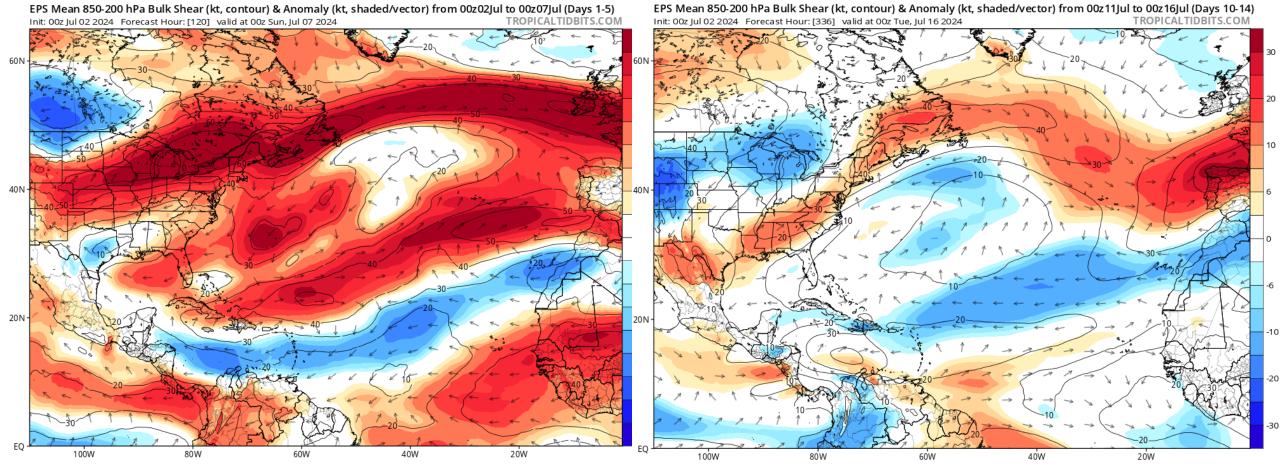




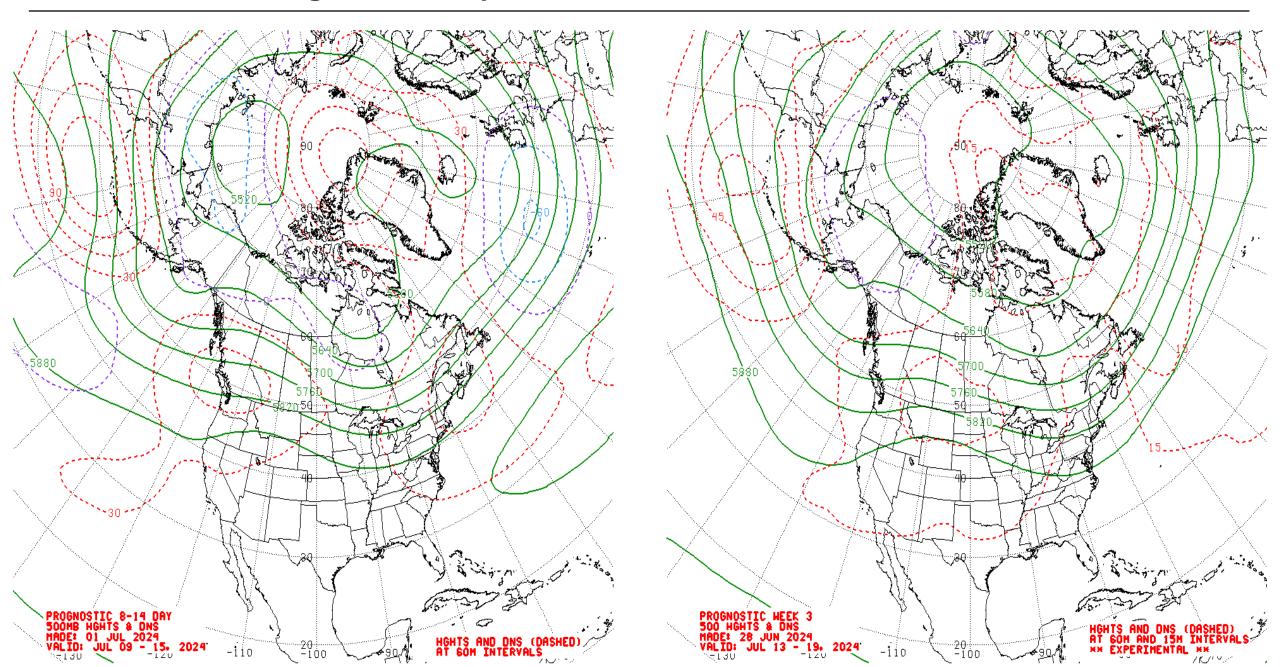


Weekly Mean Anomaly of Tropical Cyclone Strike Probability. Date:20240701 0 UTC t+(168-336) Probability of a TC passing within 300km radius

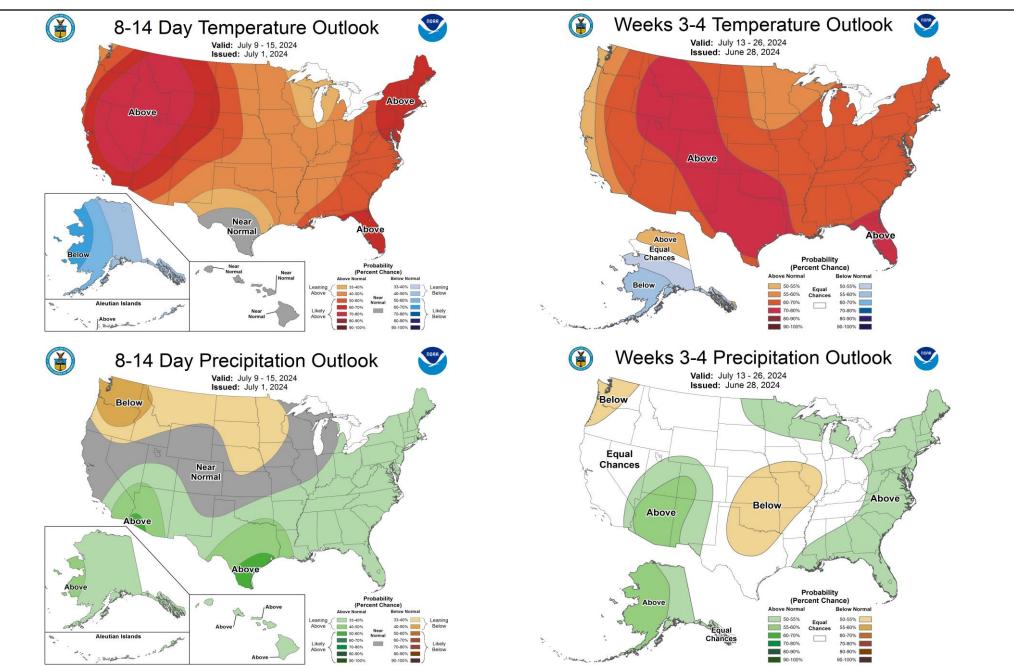


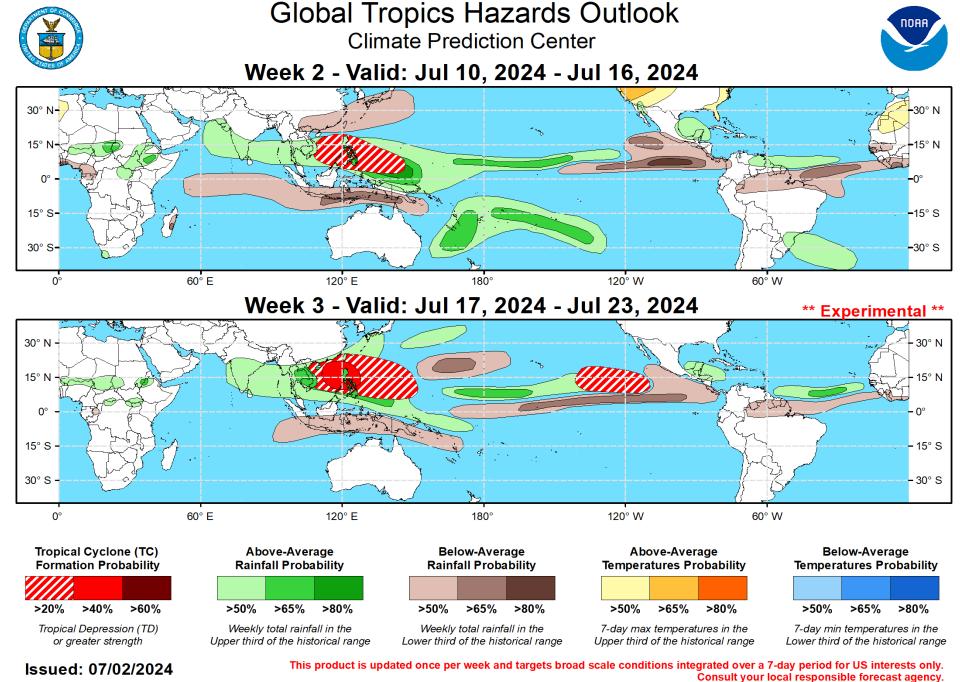


Mean 500-hPa Height Anomaly Forecasts: Weeks 2+3



Official Temperature & Precipitation Forecasts:





Forecaster: Novella