

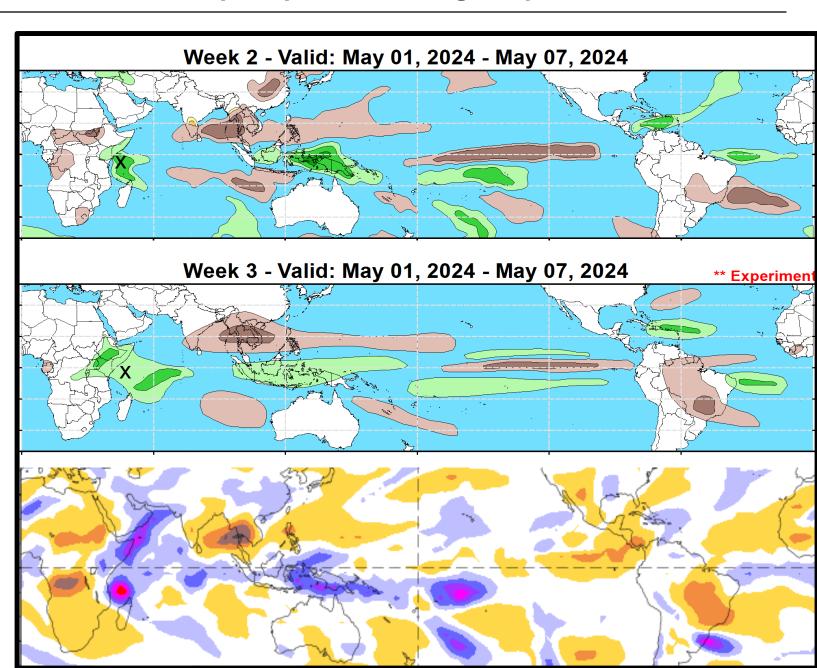


Weeks 2-3 Global Tropics Hazards Outlook 5/7/2024

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NWS / NCEP / Climate Prediction Center

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

Tropical Cyclone Hidaya: May 1 (x= western Indian Ocean)



Synopsis of Climate Modes:

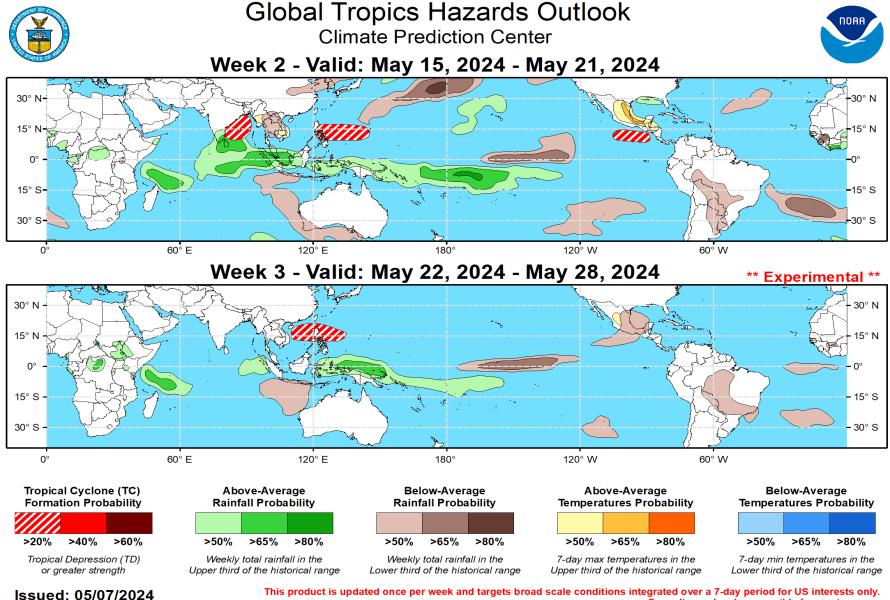
ENSO: (April 11, 2024 Update) next update on Thursday, May 9th

- ENSO Alert System Status: El Niño Advisory / La Niña Watch
- A transition from El Niño to ENSO-neutral is likely by April-June 2024 (85% chance), with chances
 of La Niña developing by June-August (60% chance).

MJO and other subseasonal tropical variability:

- The MJO strengthened during late April with its enhanced phase propagating eastward from the Indian Ocean to the Maritime Continent since the beginning of May.
- The MJO is forecast to continue a rapid pace eastward over the Western Hemisphere during the next two weeks. Other modes of subseasonal variability (Kelvin wave and equatorial Rossby wave) are complicating the RMM-based index forecast and the weeks 2 and 3 outlooks.
- Brief window for tropical cyclone (TC) development exists in the East Pacific: May 15-21. Although only
 a 20 to 40 percent chance, other favored areas during mid to late May include the Bay of Bengal
 and West Pacific.

GTH Outlook:

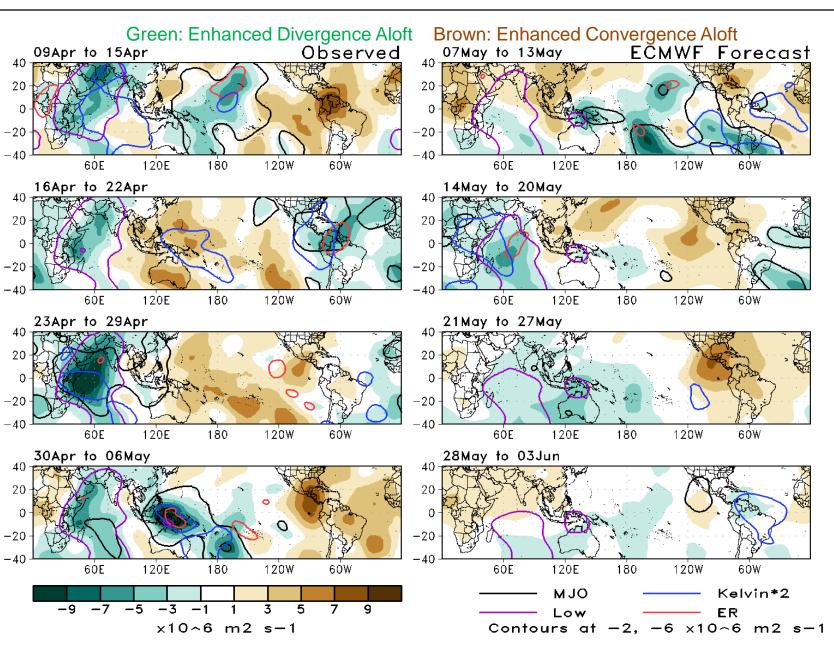


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Consult your local responsible forecast agency.

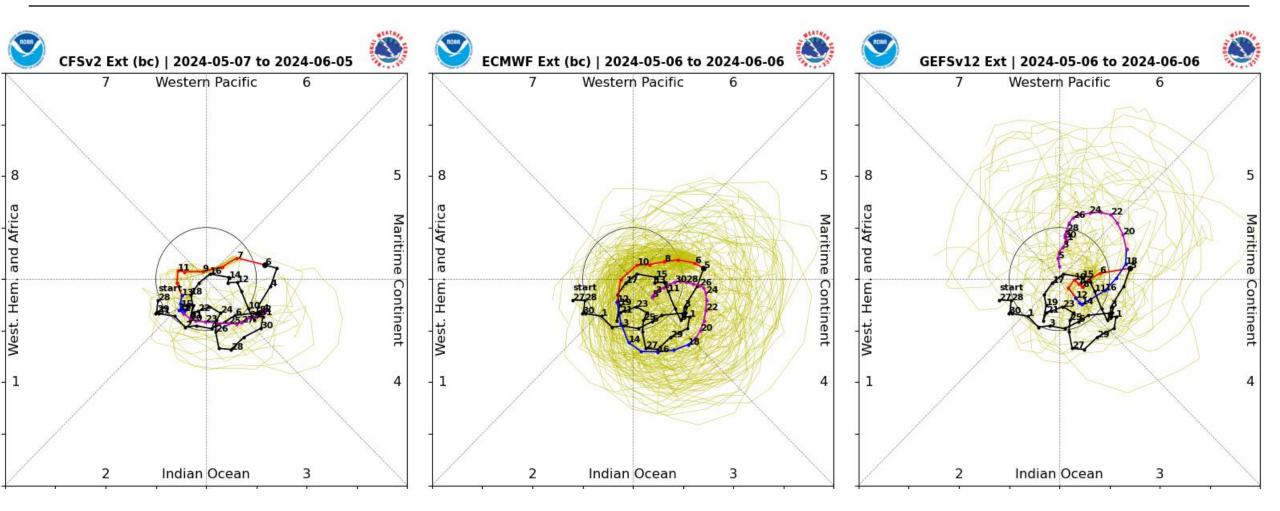
Forecaster: Pugh

200-hPa Velocity Potential Anomaly Maps:

- April 23-29: MJO constructively interfered with a low frequency state over eastern Africa and the western Indian Ocean
- April 30 to May 6: MJO eastward propagation to the West Pacific
- Complicated forecast next few weeks but enhanced lift and tropical rainfall shifts quickly from the Pacific back to the Indian Ocean



RMM Index Observations & Forecasts:



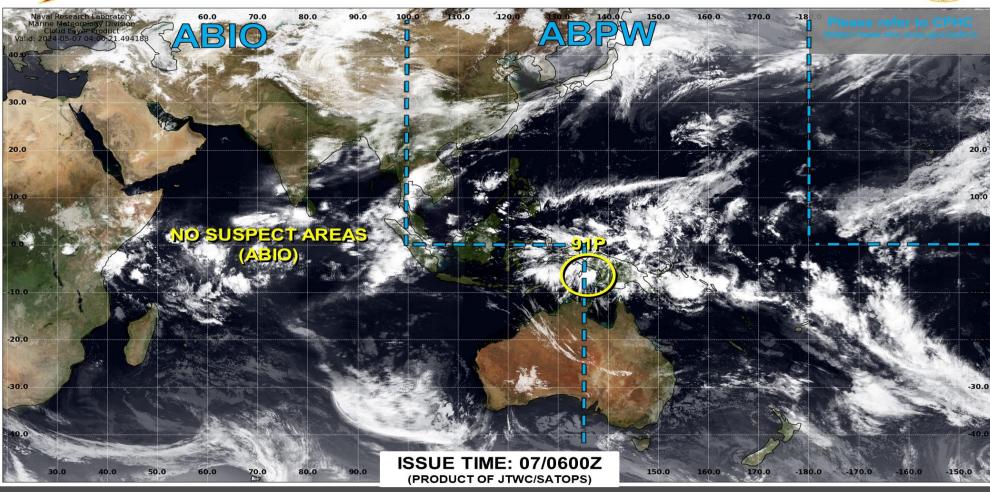
- Large model spread on the MJO amplitude but a fast eastward propagation is apparent among the ensemble means.
- ECMWF ensemble mean has the RMM index back to phase 4 by May 20th.

Tropical Cyclone Monitoring/Forecast: JTWC



JOINT TYPHOON WARNING CENTER





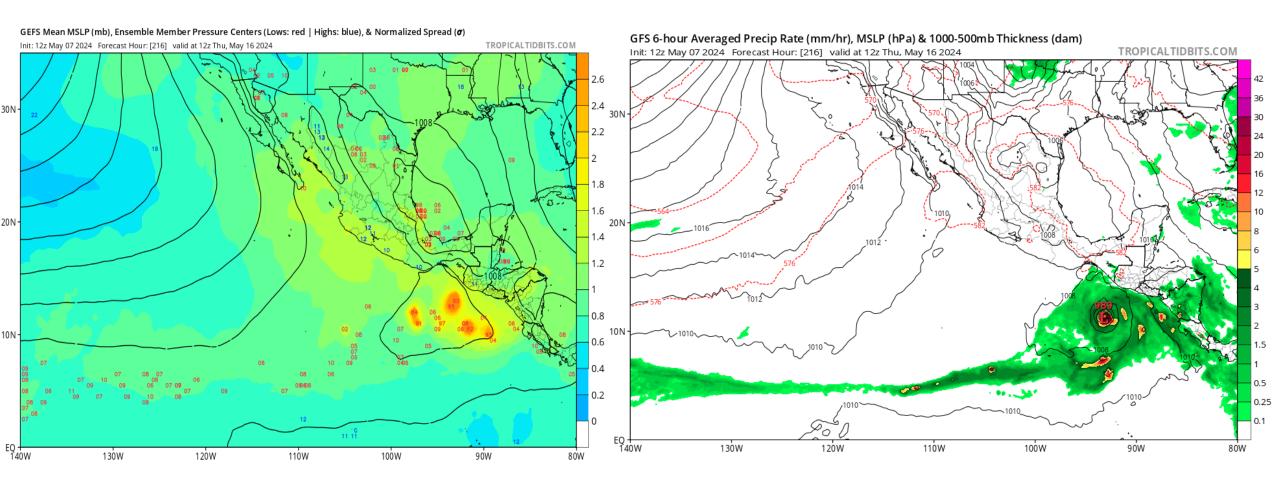






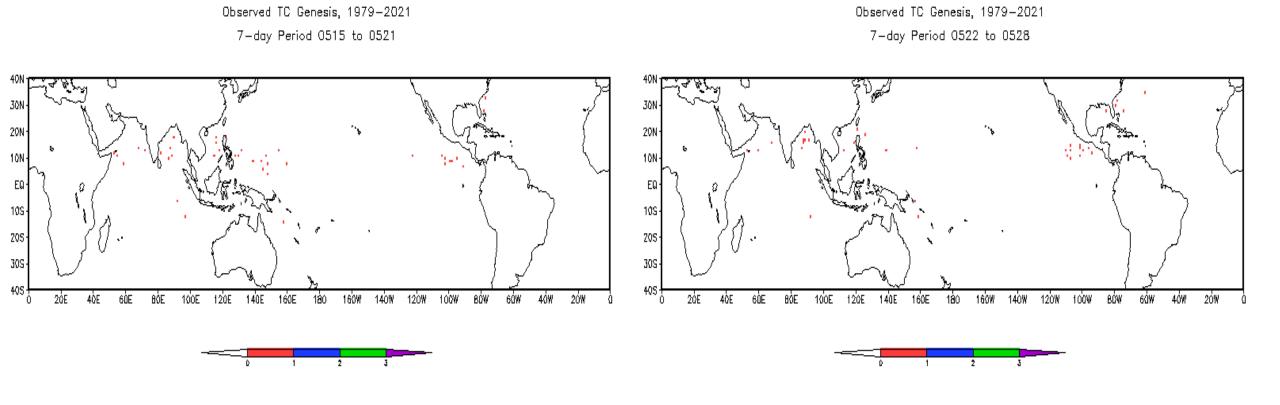




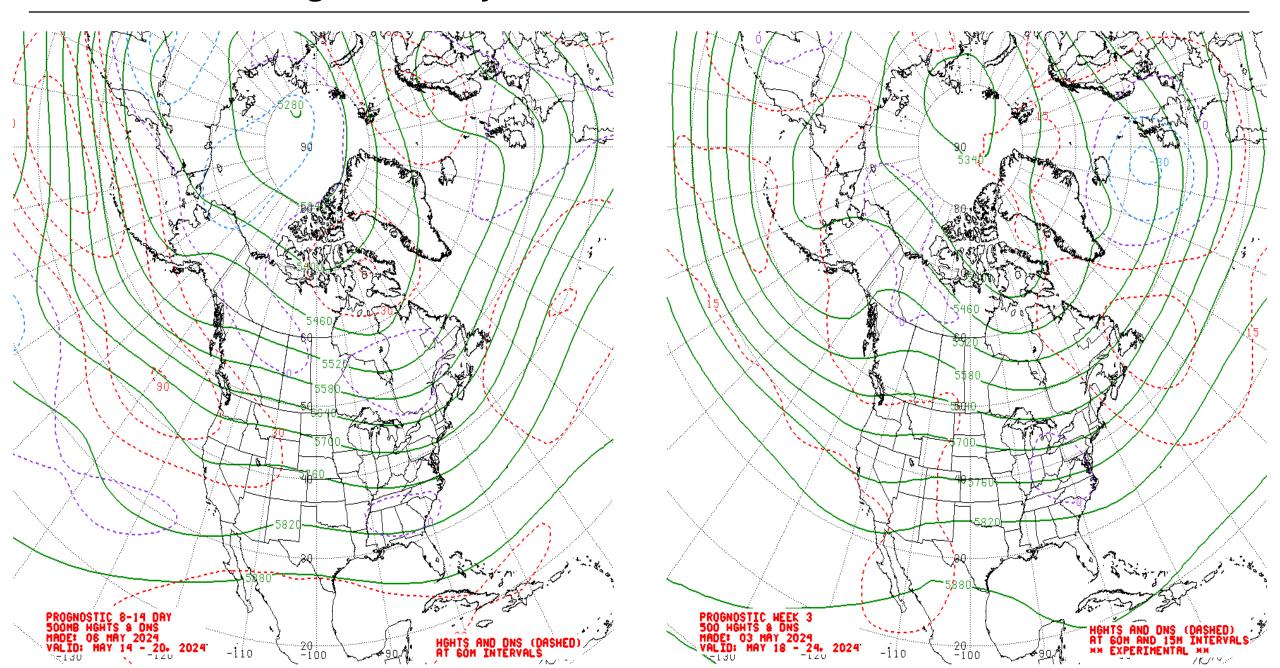


30% ensemble members have TC development

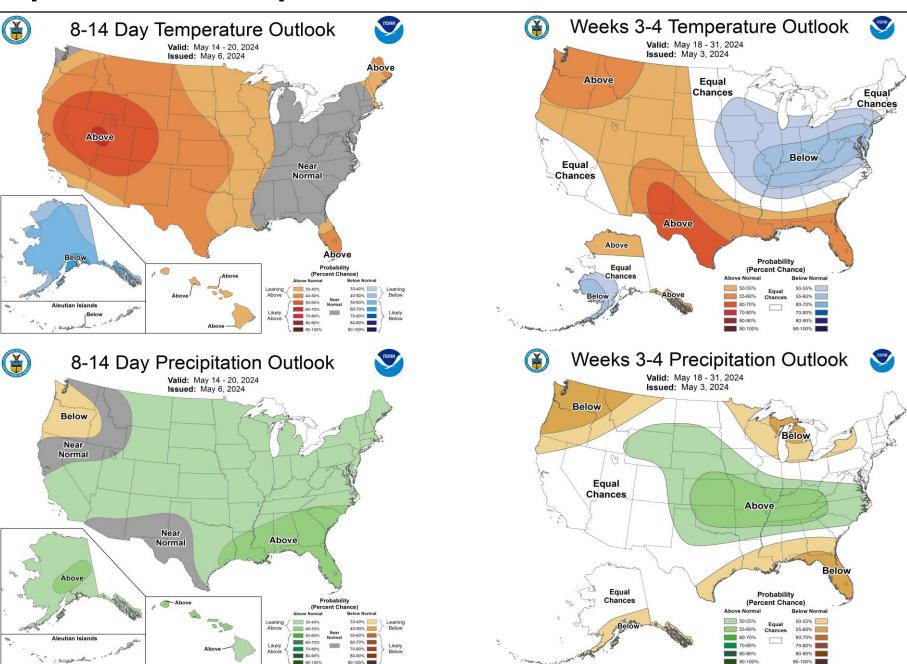
TC Climatological Genesis: Weeks 2+3



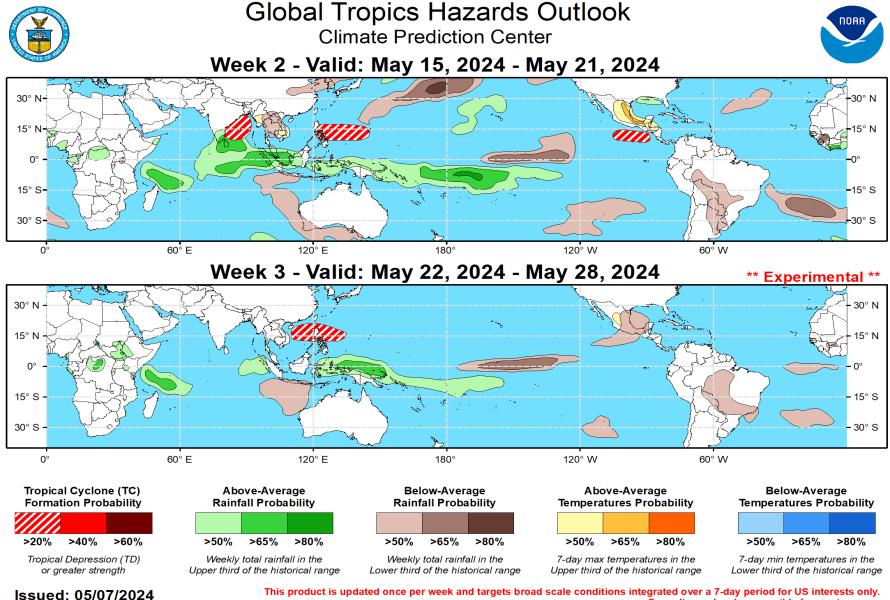
Mean 500-hPa Height Anomaly Forecasts: Weeks 2+3



Official Temperature & Precipitation Forecasts:



GTH Outlook:



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