

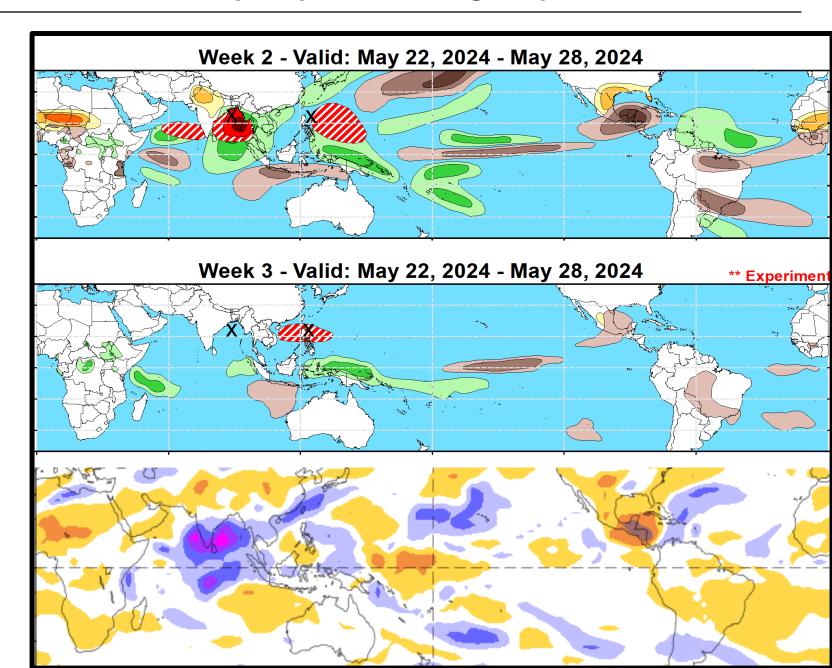


# Weeks 2-3 Global Tropics Hazards Outlook 5/28/2024

Brad Pugh
NWS / NCEP / Climate Prediction Center

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

- Tropical Cyclone Remal in Bay of Bengal: May 25th
- Tropical Cyclone Ewiniar near Luzon: May 25<sup>th</sup> (1<sup>st</sup> TC in the West Pacific during 2024)



## **Synopsis of Climate Modes:**

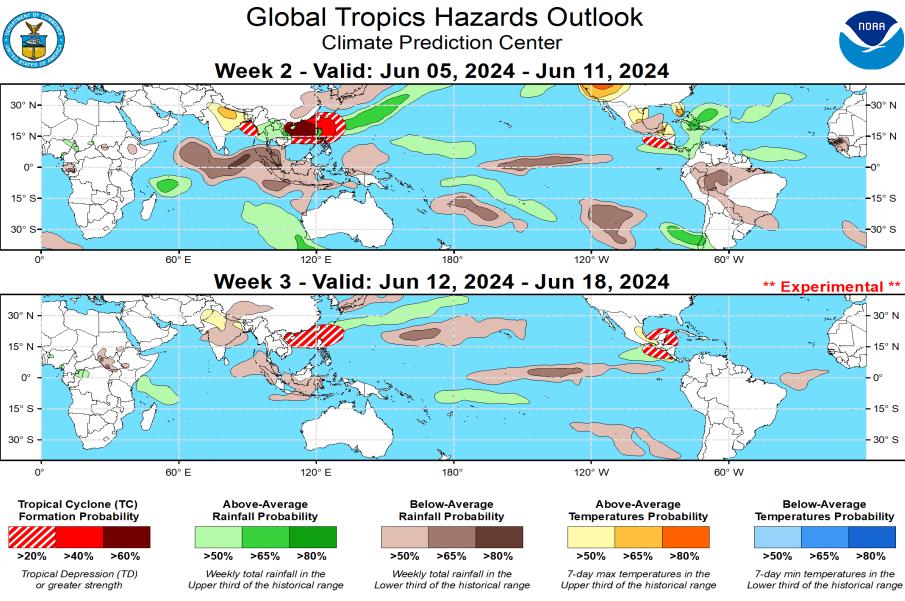
## ENSO: (May 9, 2024 Update) next update on Thursday, Jun 13th

- ENSO Alert System Status: El Niño Advisory / La Niña Watch
- A transition from El Niño to ENSO-neutral is likely in the next month. La Niña may develop in June-August (49% chance) but more likely by July-September (69% chance).

#### **MJO** and other subseasonal tropical variability:

- The MJO strengthened during late May and recently propagated eastward from the Indian Ocean to the Maritime Continent.
- Dynamical model output is in good agreement that a MJO propagates eastward during the next two to three weeks but differ on its speed.
- Tropical cyclone development is likely for the South China Sea and West Pacific for week-2 (June 5-11).

## **GTH Outlook:**



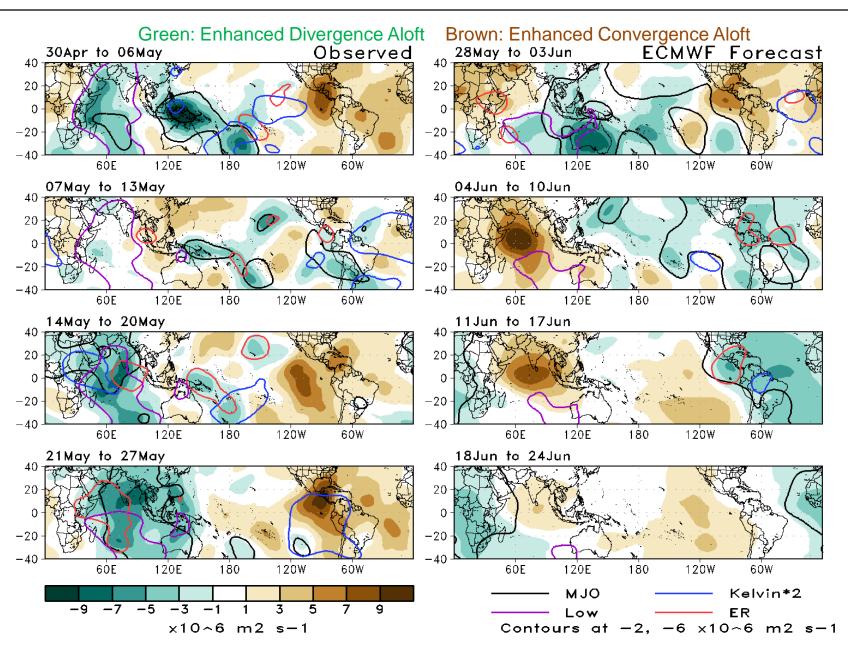
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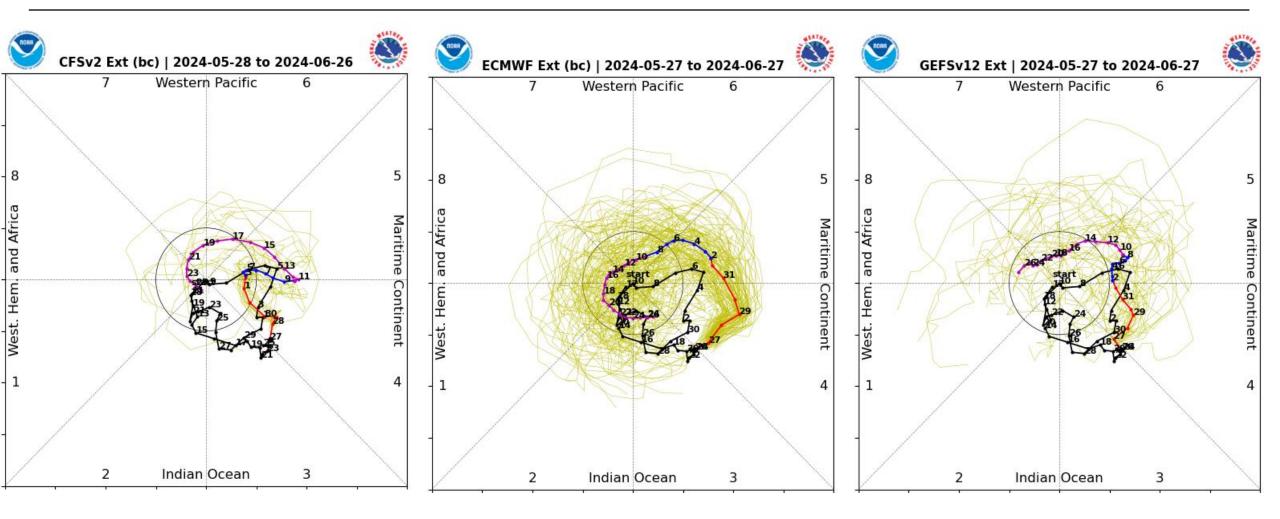
Forecaster: Pugh

# 200-hPa Velocity Potential Anomaly Maps:

- A coherent wave-1 pattern developed during the latter half of May as the MJO strengthened.
- The ECMWF model depicts
  eastward propagation of
  anomalous upper-level
  divergence/convergence during
  the next three weeks.

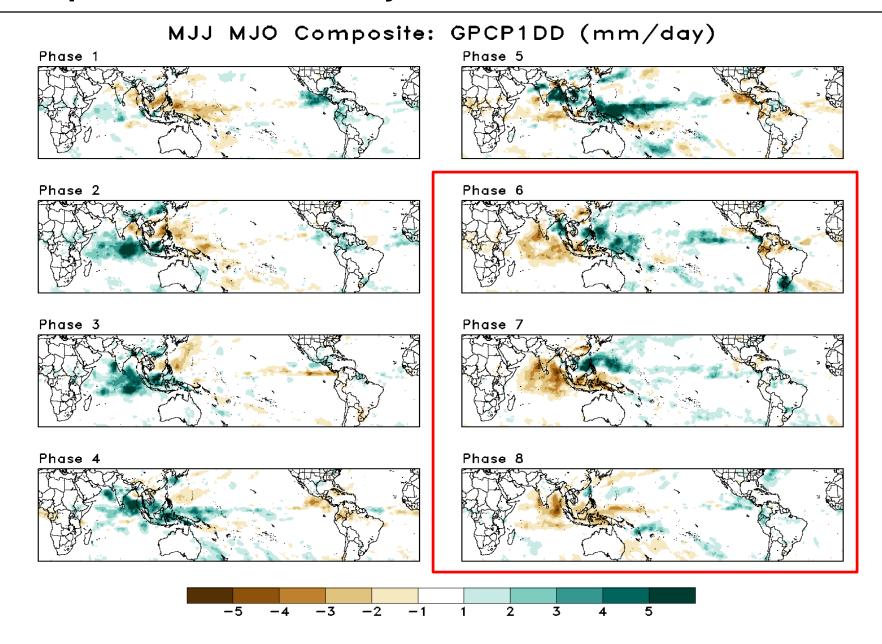


## **RMM Index Observations & Forecasts:**



- Nearly all of the CFS, ECMWF, and GEFS ensemble members depict eastward propagation (counter clockwise).
- However, there are differences on its speed with the ECMWF model the fastest of the dynamical models.

# **Historical Precipitation Anomalies By MJO Phase:**

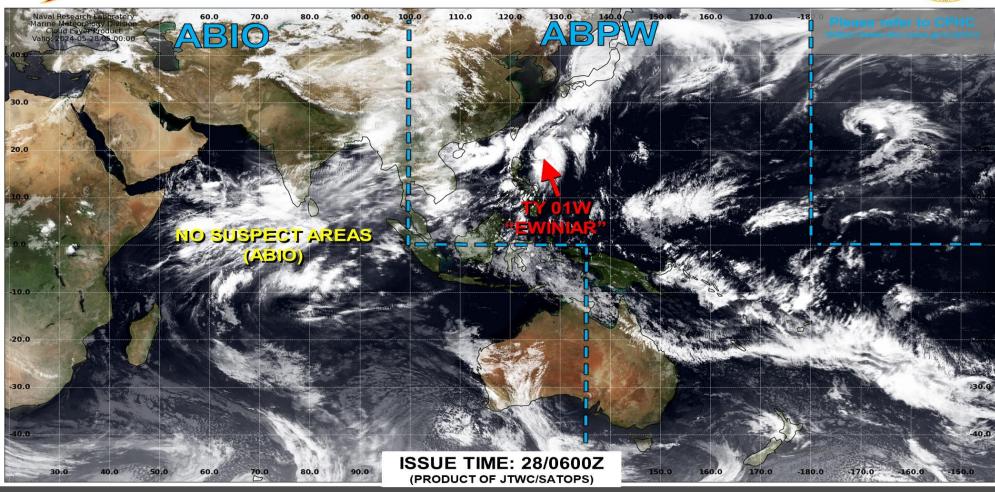


# **Tropical Cyclone Monitoring/Forecast: JTWC**



#### **JOINT TYPHOON WARNING CENTER**



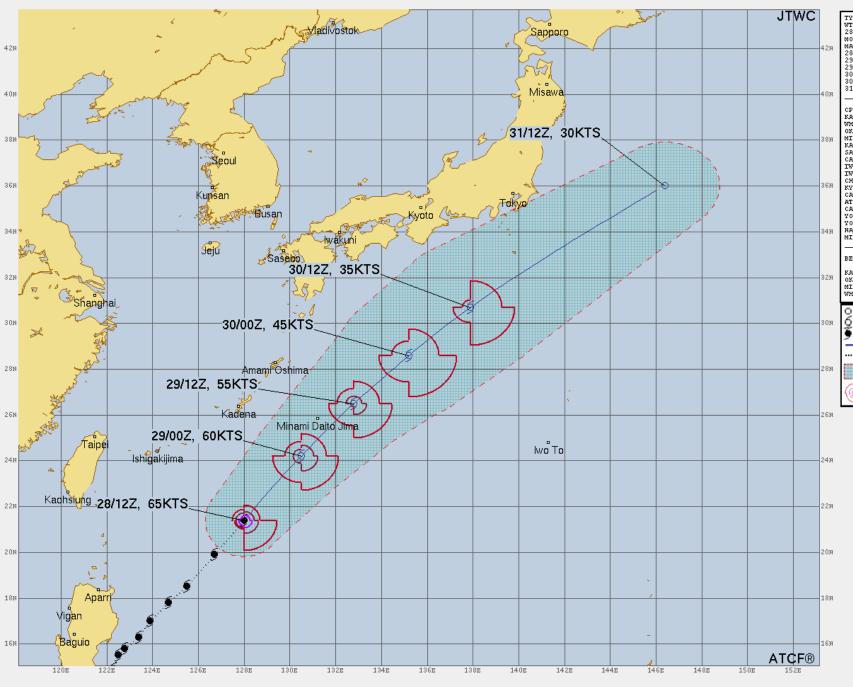




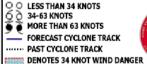








TYPHOON OIW (EWINIAR) WARNING #16 WYPH31 PETW 281500 2812002 POSIT: NEAR 21.4N 128.0E MOVING 040 DEGREES TRUE AT 19 KNOTS MAXIMUM SIGNIFICANT WAVE HEIGHT: 31 FEET 28/122, WINDS 065 KTS, GUSTS TO 080 KTS 29/002, WINDS 060 KTS, GUSTS TO 075 KTS 29/122, WINDS 055 KTS, GUSTS TO 070 KTS 30/002, WINDS 045 KTS, GUSTS TO 055 KTS 30/122, WINDS 035 KTS, GUSTS TO 045 KTS 31/122, WINDS 030 KTS, GUSTS TO 040 KTS NM 0776 197 05/23/002 18 05/23/002 18 05/23/02 277 05/23/02 277 05/23/162 277 05/30/02 395 05/30/02 346 05/30/072 346 05/30/072 311 05/30/172 182 05/30/172 182 05/30/172 185 05/31/002 176 05/31/002 189 05/31/002 189 05/31/002 KADENA\_AB WHITE\_BEACH OKIDATTO\_JIMA MINAMIDAITO\_JIMA KANOYA SASEBO CAMP\_KENGUN IWAKUNI IWO\_TO CHICHI\_JIMA KYOGAMISAKI CAMP\_FUJI ATSUGI CAMP\_ZAMA YOKOSUKA YOKOTA AB MARITA AIRPORT 161 05/31/022 367 05/31/112 BEARING AND DISTANCE DIR DIST TAU (NM) (HRS) 300 0 257 0 317 0 294 0 KADENA\_AB OKIDAITO\_JIMA MINAMIDAITO\_JIMA WHITE\_BEACH 178 224 214 179 O O LESS THAN 34 KNOTS



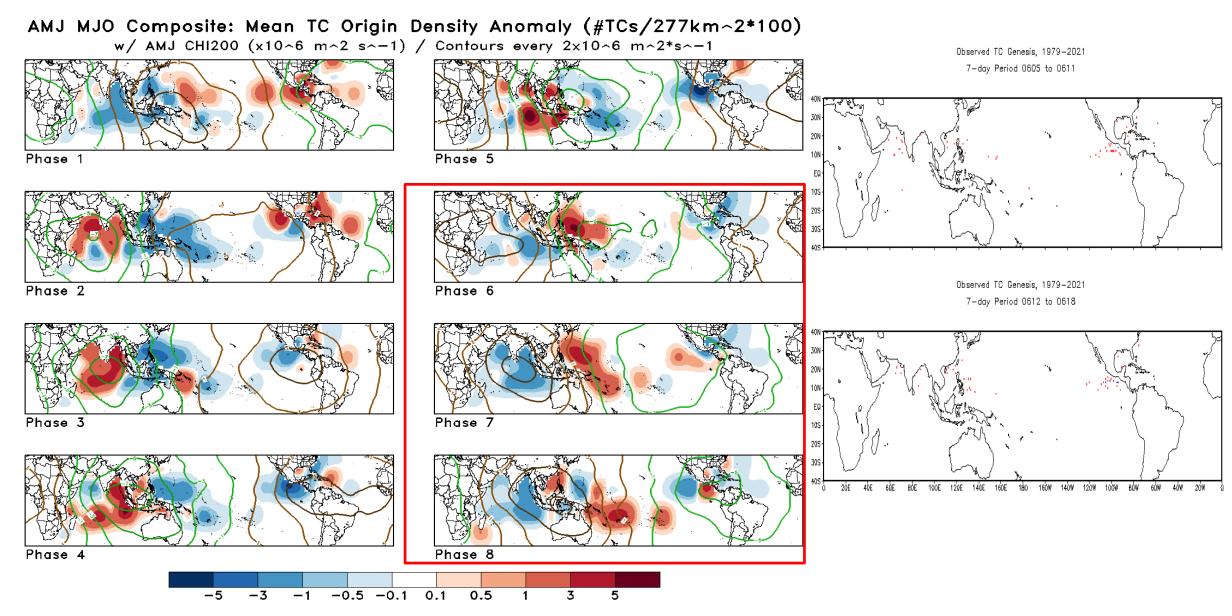
AREA/USN SHIP AVOIDANCE AREA

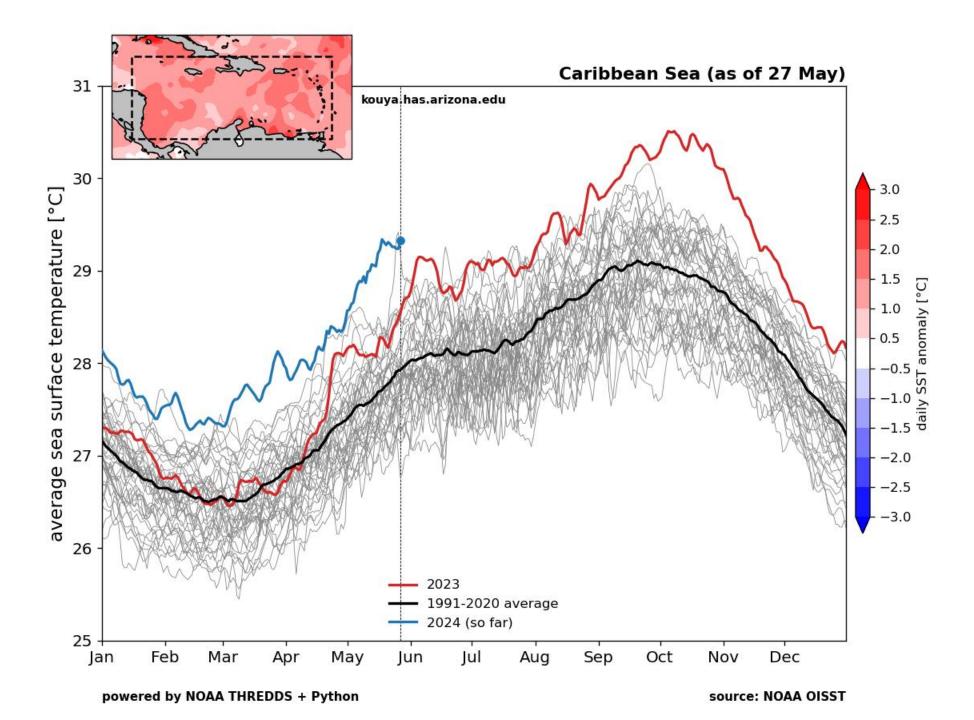
FORECAST 34/50/64 KNOT WIND RAD

FORECAST 34/50/64 KNOT WIND RADII
(WINDS VALID OVER OPEN OCEAN ONLY)

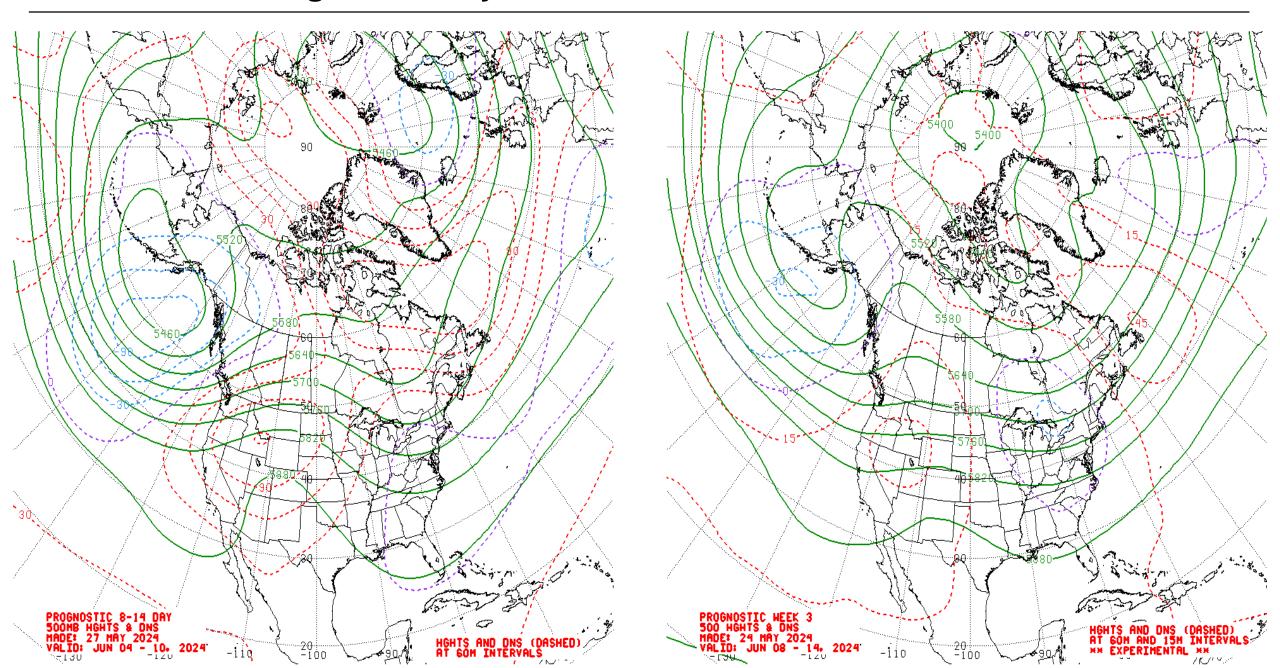
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## Historical TC Origin Anomalies By MJO Phase & Weeks 2+3 Genesis Climo:

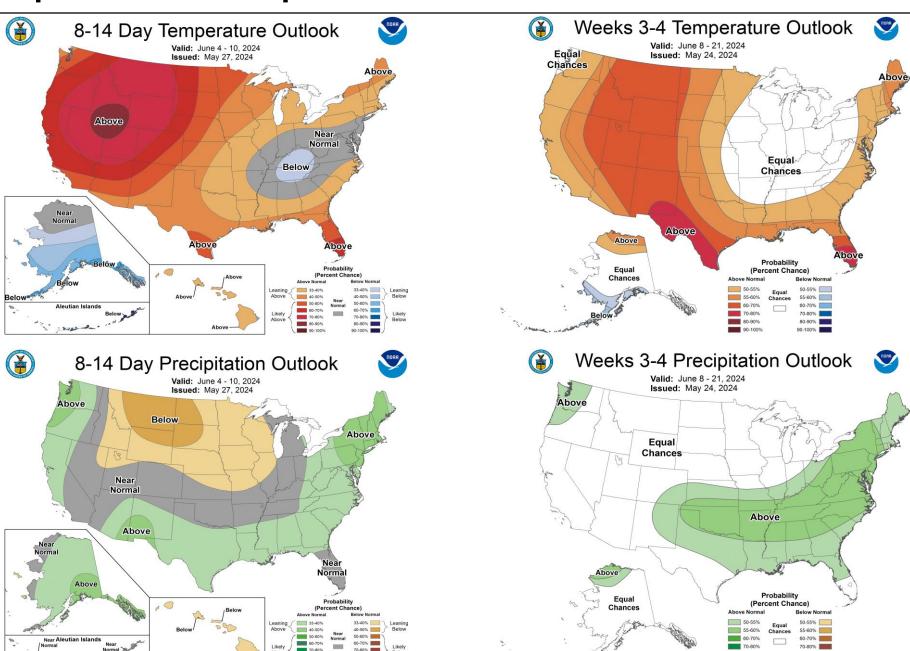




# Mean 500-hPa Height Anomaly Forecasts: Weeks 2+3

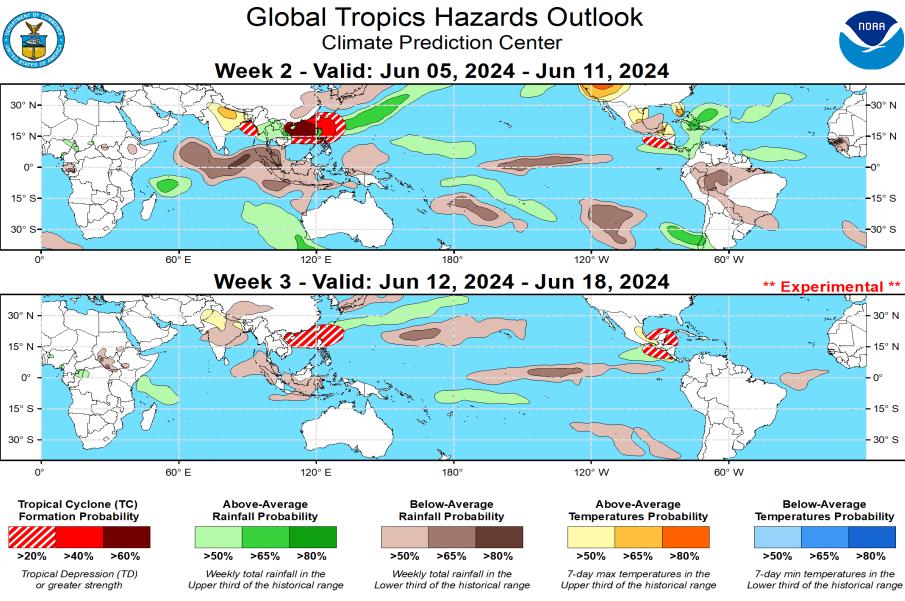


# **Official Temperature & Precipitation Forecasts:**



90-100%

## **GTH Outlook:**



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