



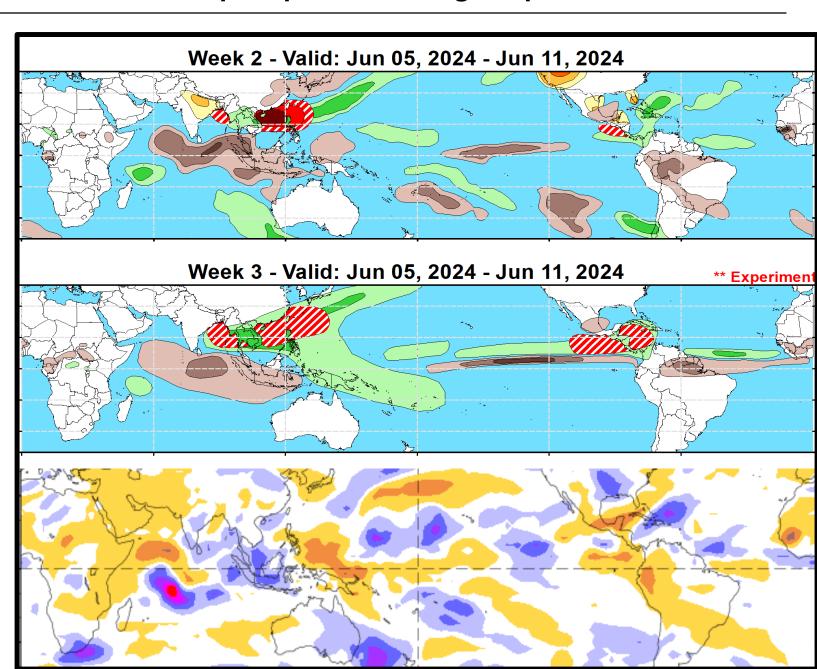
# Weeks 2-3 Global Tropics Hazards Outlook 6/11/2024

Danny Barandiaran

NWS / NCEP / Climate Prediction Center

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

No TCs this week



## **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 RMM index has continued to weaken over the last week, with the RMM index currently near the center of the unit circle.
- Interference from the evolving Pacific base state and frequent Rossby wave activity appear to be weakening the intraseasonal signal.
- Dynamical models depict a weak signal over the next few weeks, though the GEFS favors a coherent eastward propagation of the weak signal across the Pacific to the Western Hemisphere.

#### **GTH Outlook:**

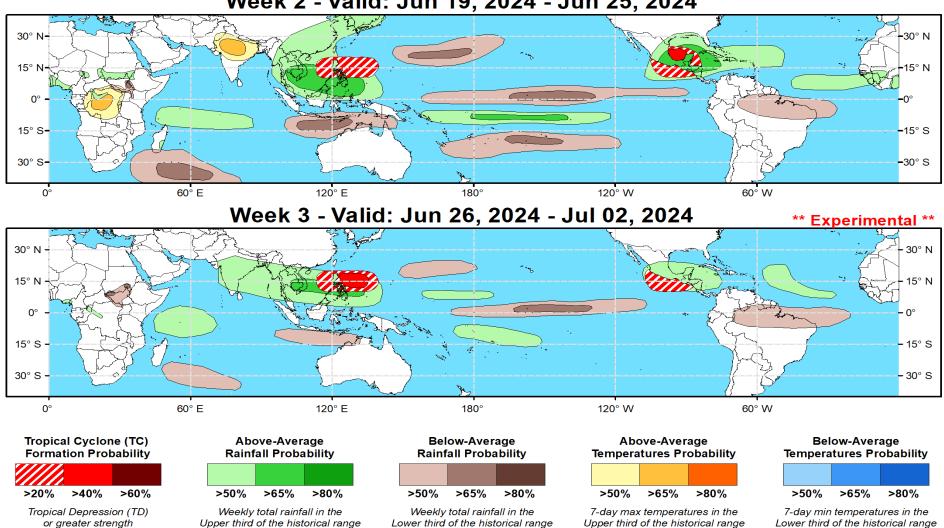


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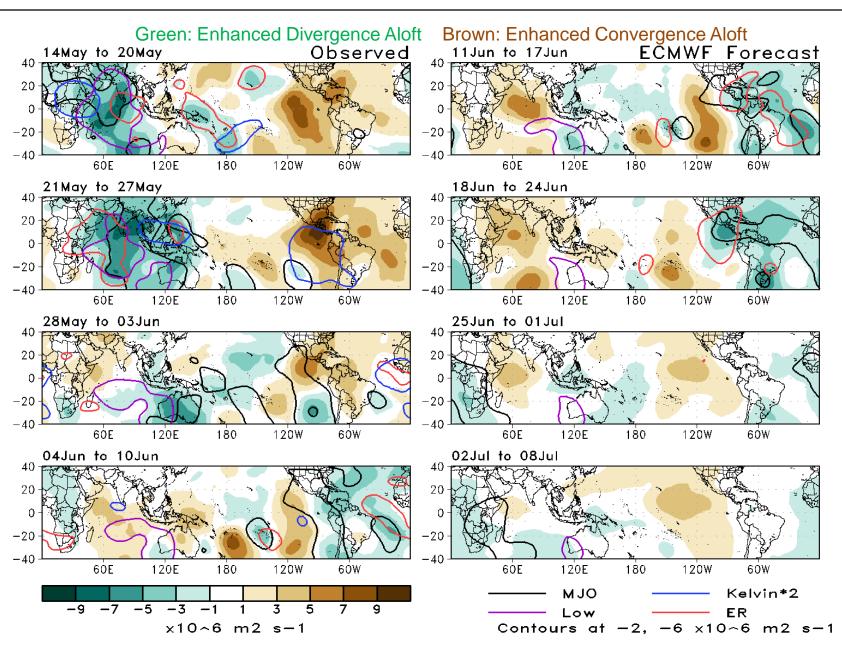
Week 2 - Valid: Jun 19, 2024 - Jun 25, 2024



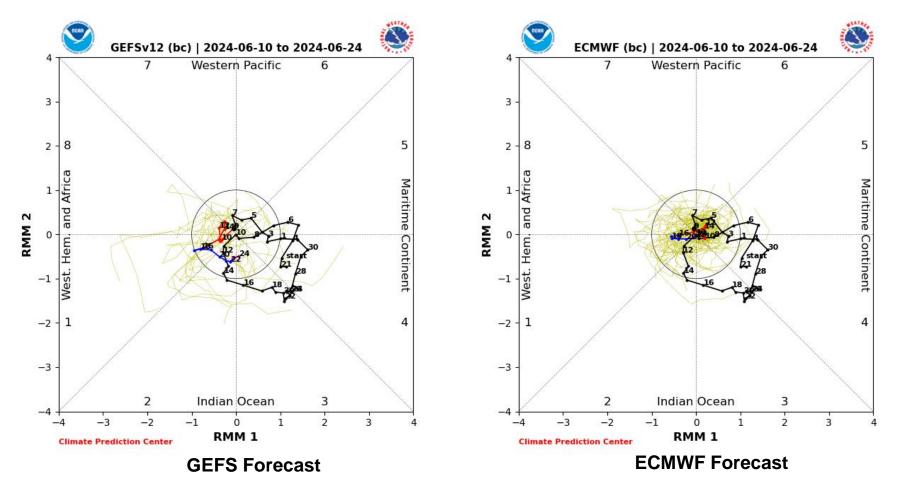
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## 200-hPa Velocity Potential Anomaly Maps:

- As May came to a close the MJO went from a fairly high amplitude to a much weaker state. Wave-1 symmetry has become less defined.
- Model solutions generally favor a continuance of this weakened state of the MJO for the next several weeks.

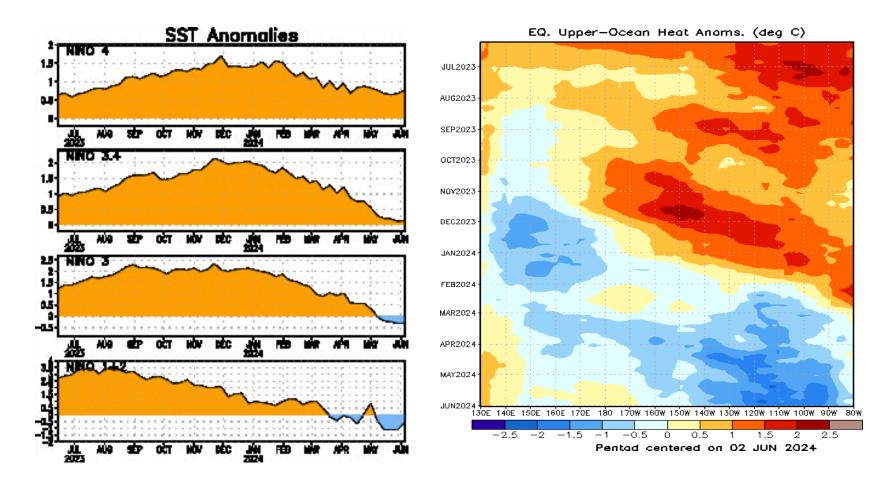


#### **MJO Index: Forecast Evolution**



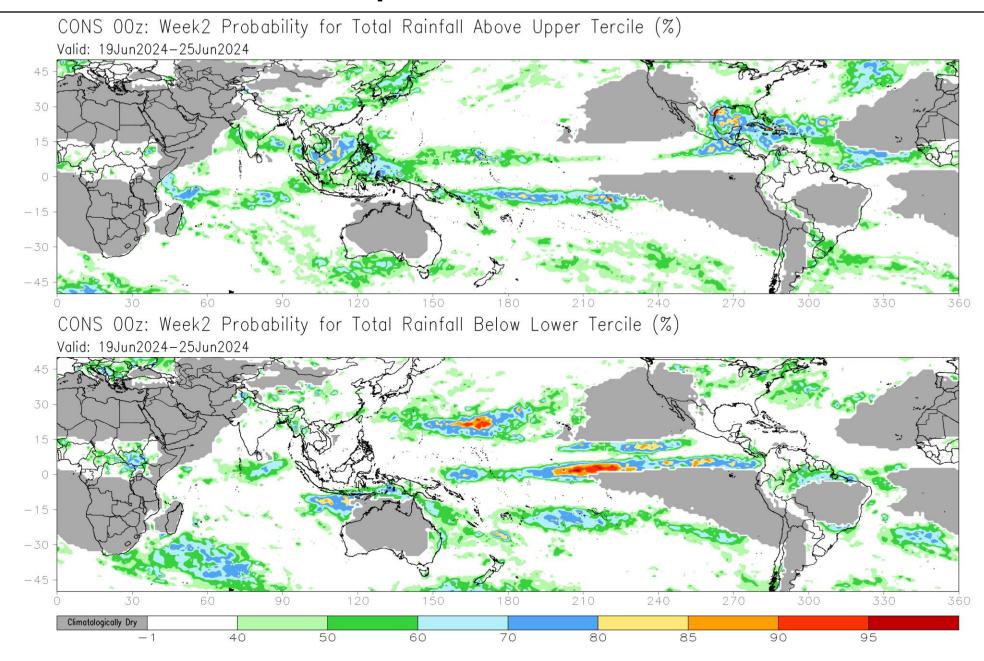
 The ECMWF and GEFS (as well as most other operational models) favor a continuation of very weak RMM index and therefore MJO activity over the coming weeks.

### SSTs and Weekly Heat Content Evolution in the Equatorial Pacific

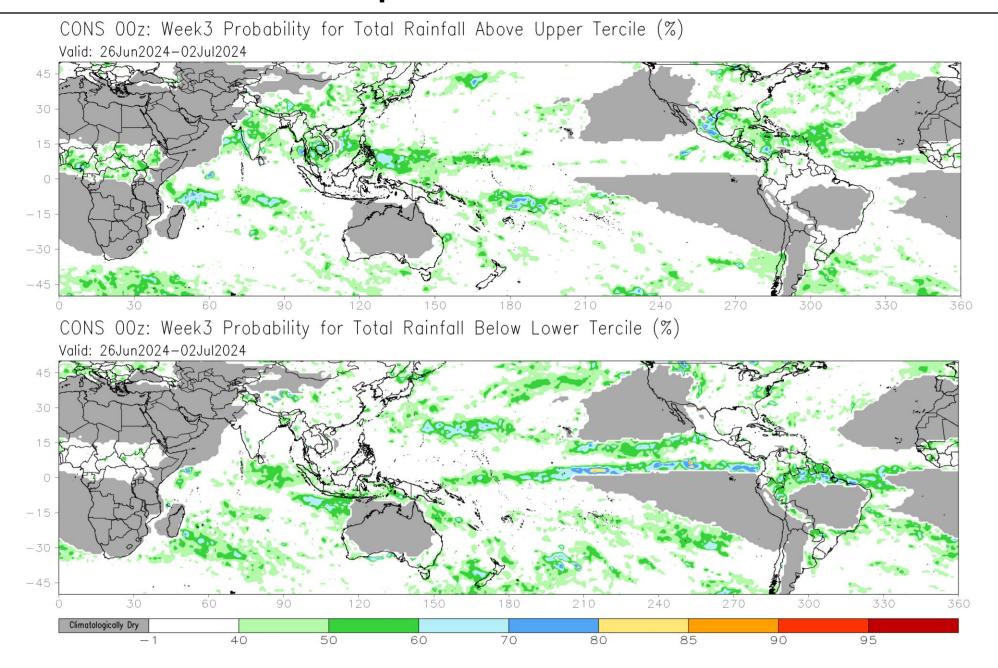


- SSTs in the easternmost Niño regions continue to trend downward since February, indicative of a decaying El Niño and potentially developing La Niña.
- Negative subsurface temperature anomalies continue to be observed across nearly the entire Pacific, with cooling most pronounced across the Eastern Pacific.

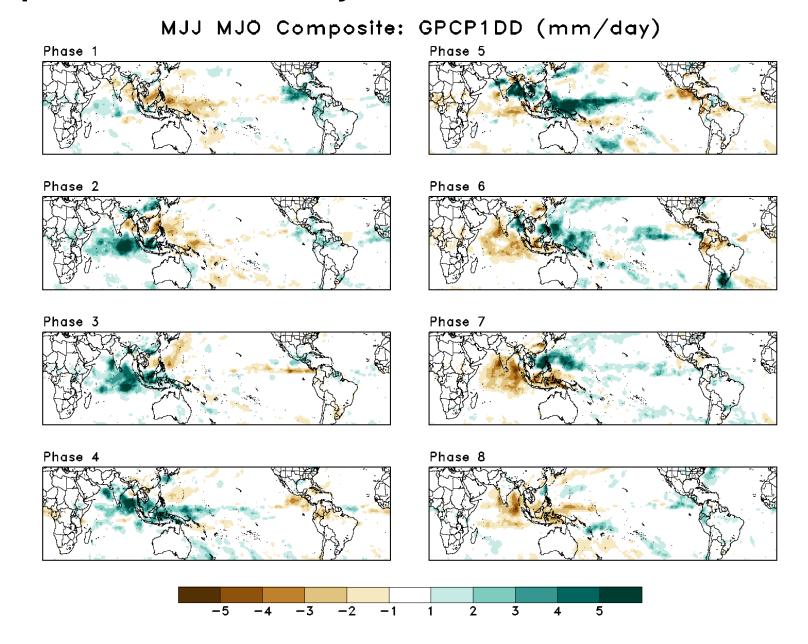
## Consolidated Probabilistic Precipitation: Weeks 2 & 3



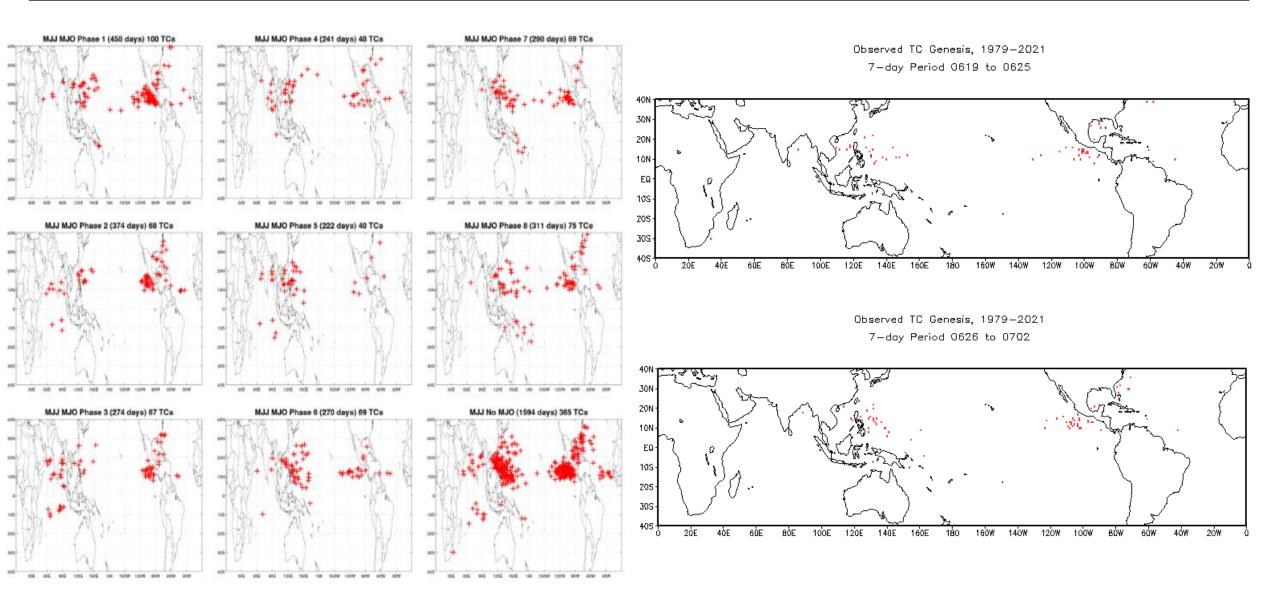
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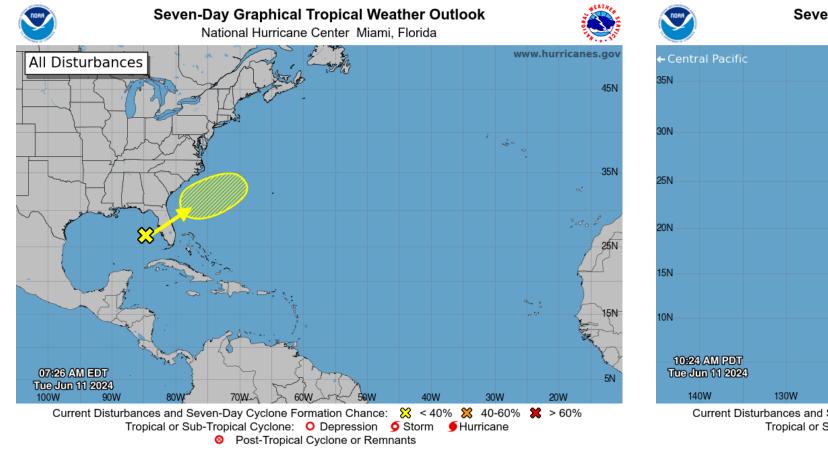
## **Historical Precipitation Anomalies By MJO Phase:**



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



## **Tropical Cyclone Monitoring/Forecast: NHC / CPHC**



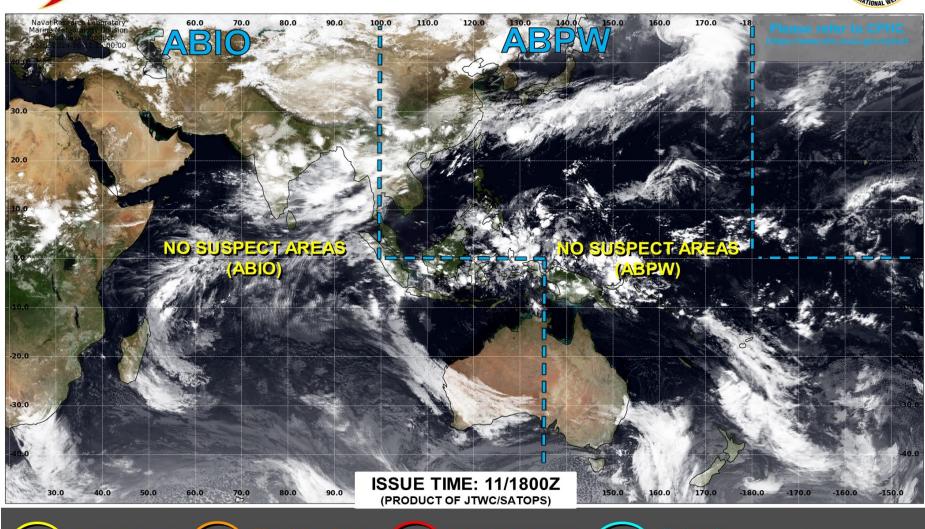


## **Tropical Cyclone Monitoring/Forecast: JTWC**



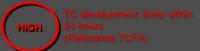
#### **JOINT TYPHOON WARNING CENTER**

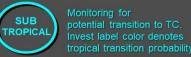






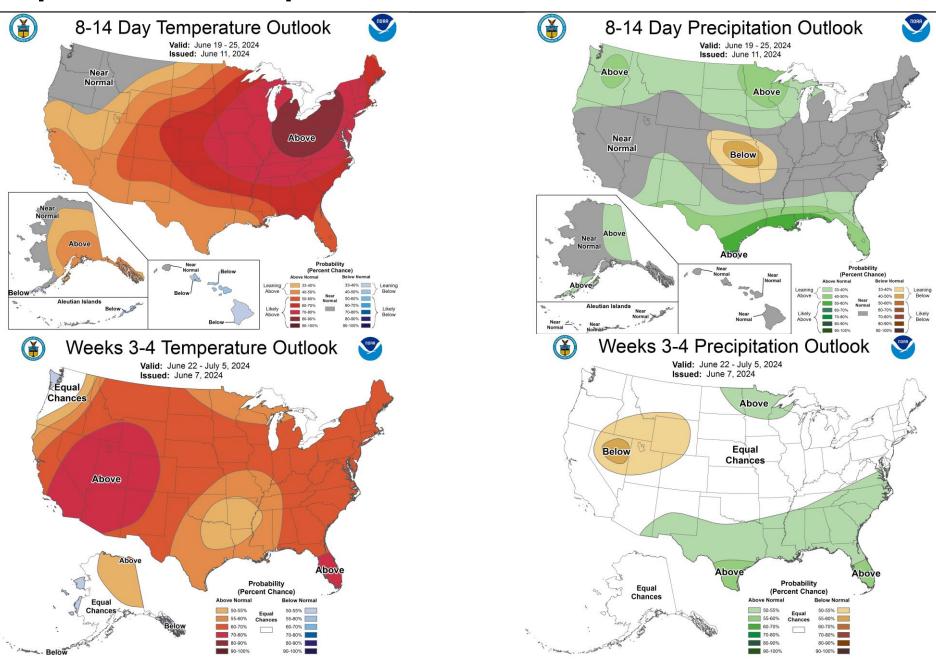








## **Official Temperature & Precipitation Forecasts:**



#### **GTH Outlook:**

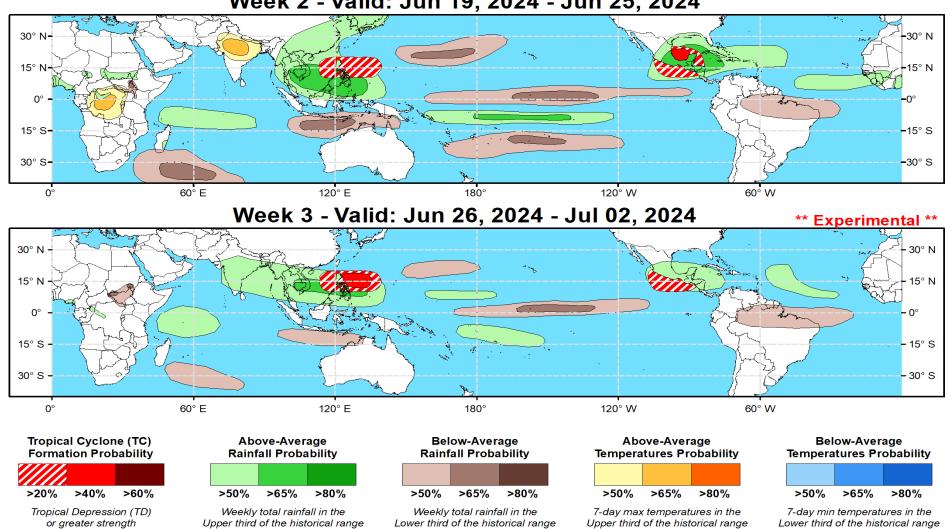


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