

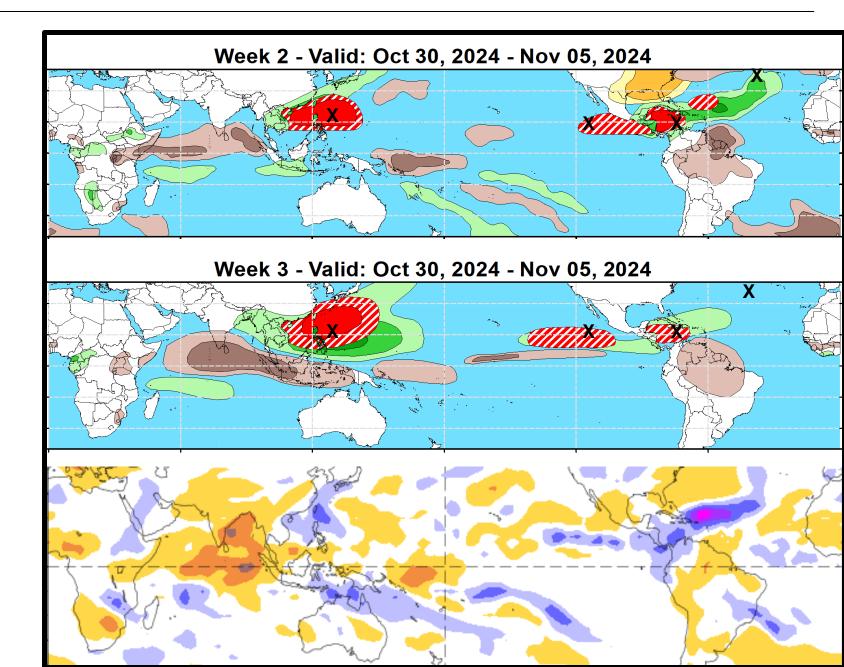


Weeks 2-3 Global Tropics Hazards Outlook 11/5/2024

Adam Allgood NWS / NCEP / Climate Prediction Center

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

- Lane (East Pac) 11/2
- Patty (North Atl) 11/2
- Yinxing (West Pac) 11/3
- Rafael (Caribbean) 11/4



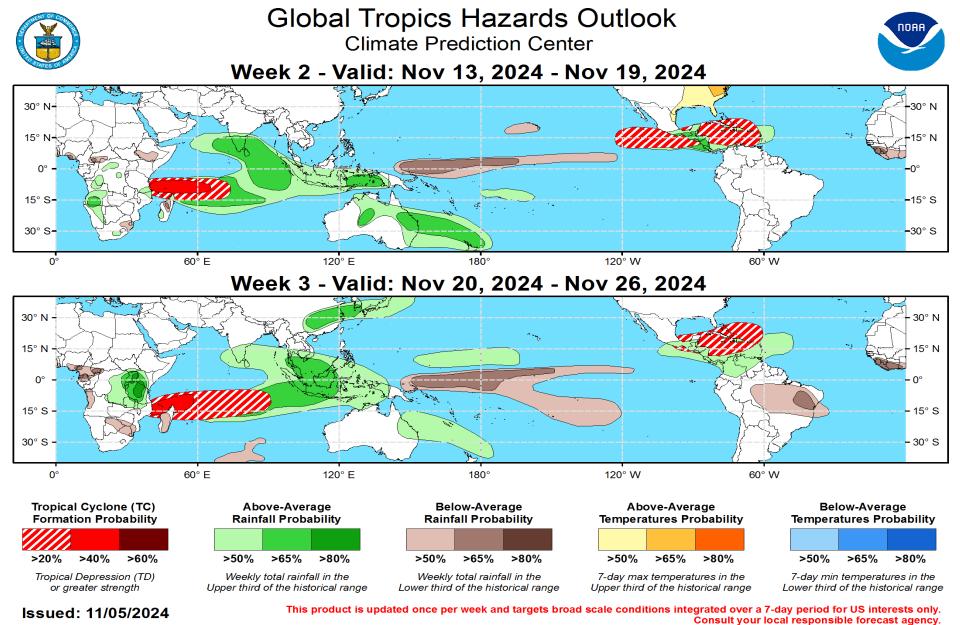
ENSO: (Oct 10, 2024 Update) next update on Thursday, Nov 14th

- ENSO Alert System Status: La Niña Watch
- La Niña is favored to emerge in September-November (60% chance) and is expected to persist through January-March 2025.

MJO and other subseasonal tropical variability:

- Robust MJO activity continues, with the enhanced convective phase now crossing the Western Hemisphere.
- The MJO has helped promote an uptick in late season TC activity across the East Pacific and Atlantic basins, and this enhancement is favored to continue during the Week-2 and Week-3 outlook period.
- Dynamical model MJO index forecasts favor continued MJO activity over the next few weeks.
- The current pattern over the CONUS (western trough, eastern ridge) is likely to be reinforced by extratropical teleconnections from MJO activity.
- Big question is whether MJO activity persists beyond Week-3 as the enhanced signal attempts to re-enter the Pacific.

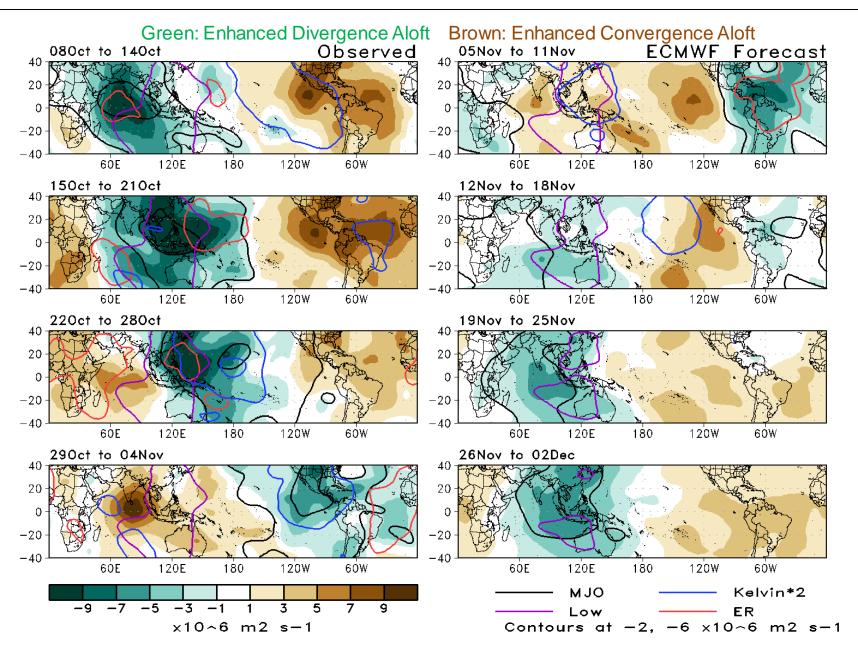
GTH Outlook:



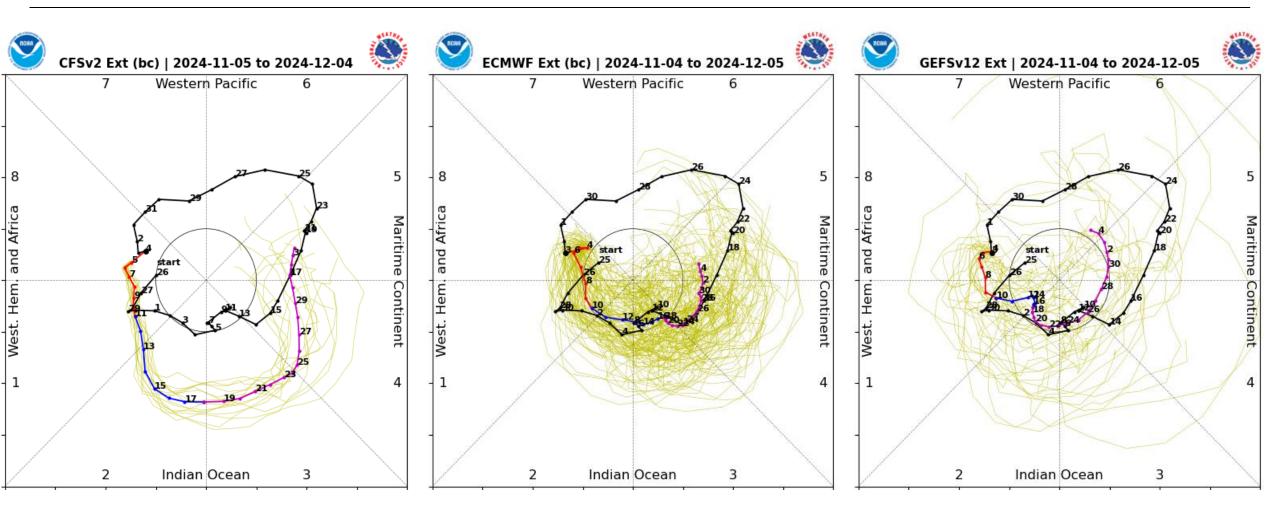
Forecaster: Allgood

200-hPa Velocity Potential Anomaly Maps:

- Textbook MJO propagation during October and early November.
- Continued MJO evolution is favored into Weeks-2 and 3.
- The ECMWF stalls the progression over the Maritime Continent (barrier effect)

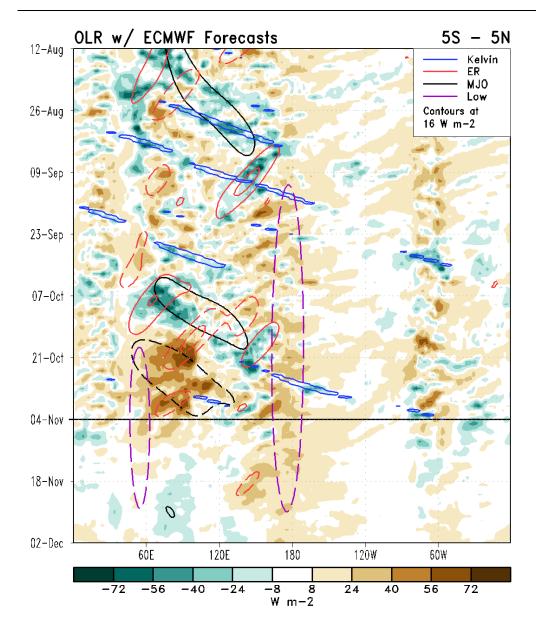


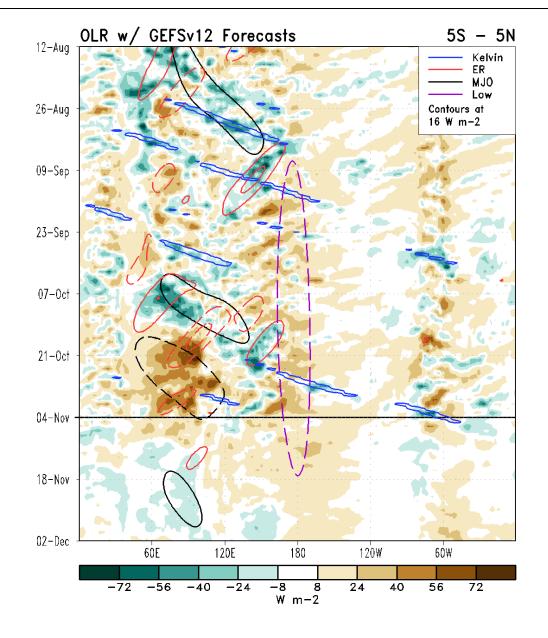
RMM Index Observations & Forecasts:



• All dynamical model systems indicate continued MJO activity through at least Week-3.

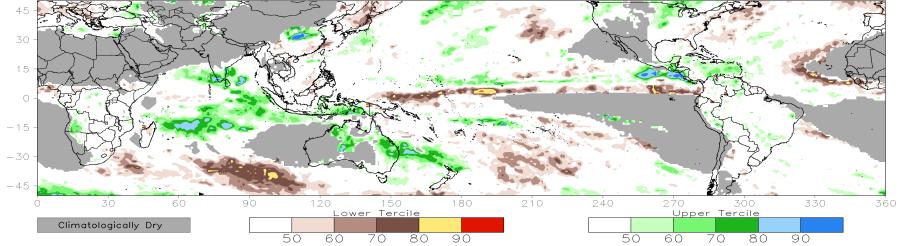
Outgoing Longwave Radiation (OLR) Anomaly Time/Lon Plots:



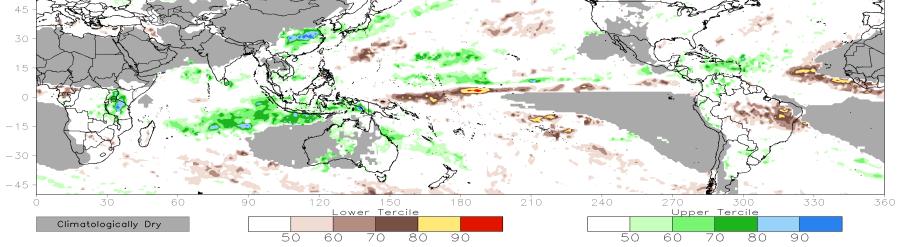


Consolidated Probabilistic Precipitation: Weeks 2 & 3

CONS 00z: Week2 Probability for Total Rainfall Below(Above) Lower(Upper) Tercile (%) Valid: 13Nov2024-19Nov2024

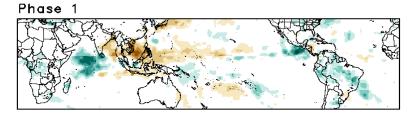


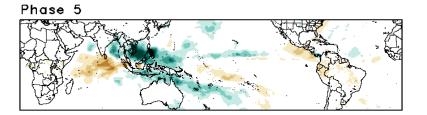
CONS 00z: Week3 Probability for Total Rainfall Below(Above) Lower(Upper) Tercile (%) Valid: 20Nov2024-26Nov2024

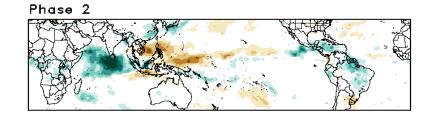


Historical Precipitation Anomalies By MJO Phase:

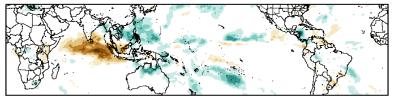
OND MJO Composite: GPCP1DD (mm/day)



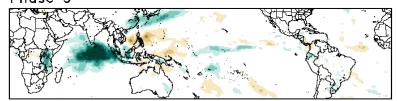




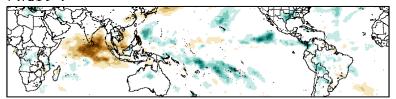
Phase 6



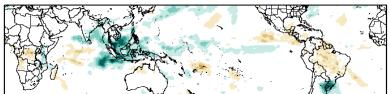
Phase 3



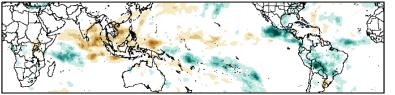
Phase 7



Phase 4

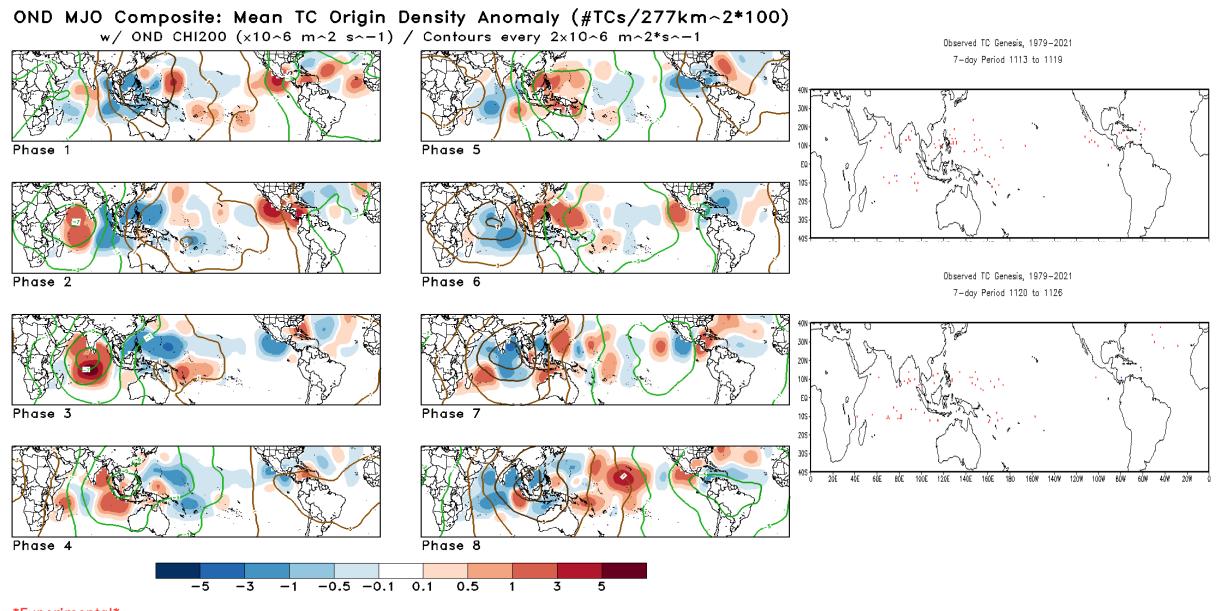


Phase 8



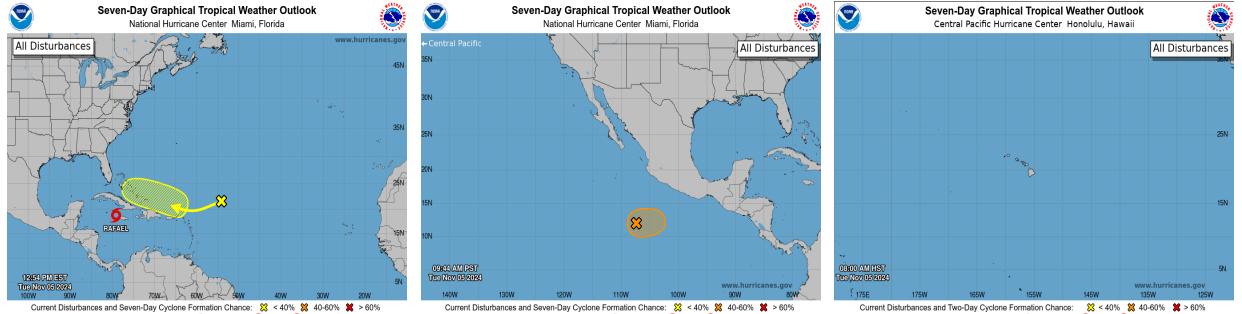


Historical TC Origin Anomalies By MJO Phase & Weeks 2+3 Genesis Climo:



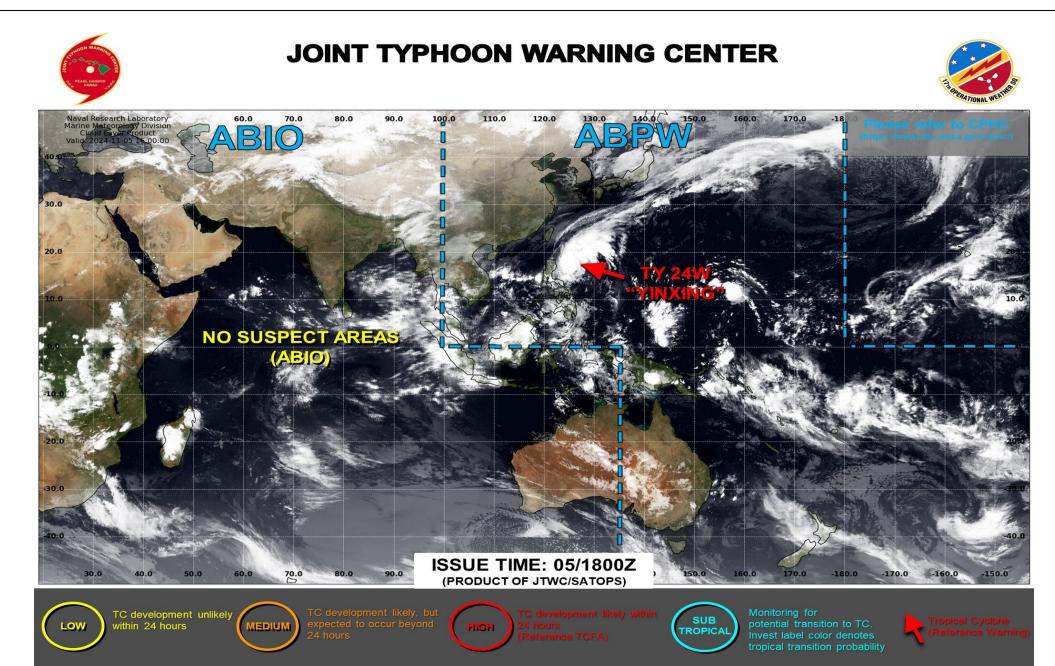
Experimental

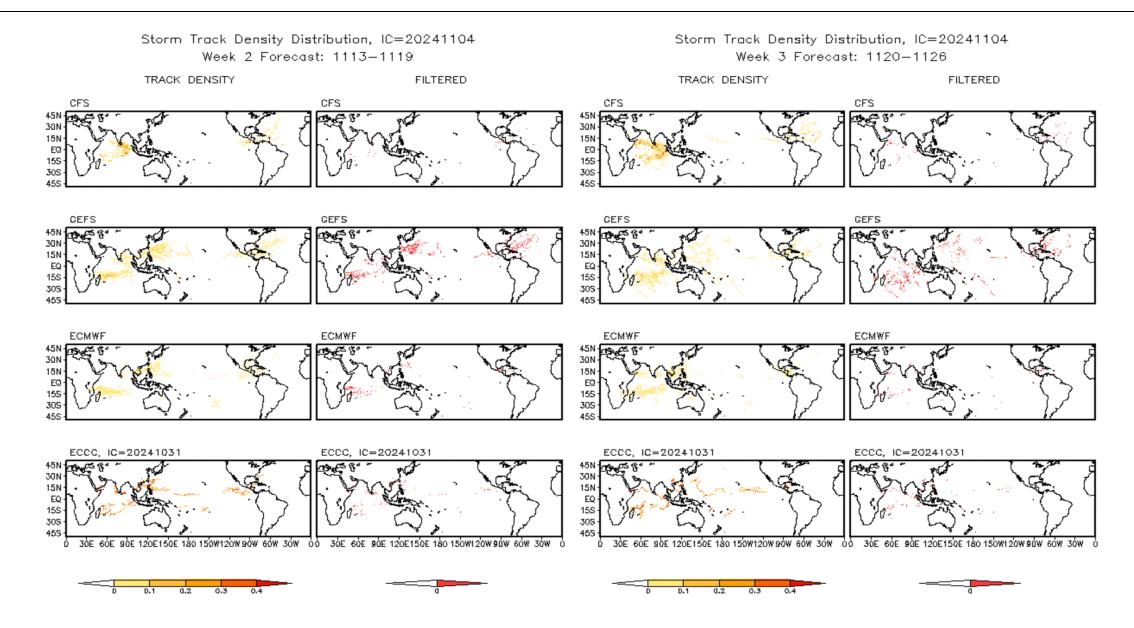
Tropical Cyclone Monitoring/Forecast: NHC / CPHC

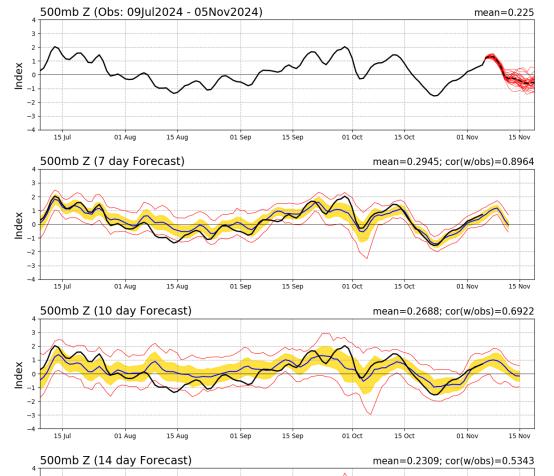


Tropical or Sub-Tropical Cyclone: O Depression **9** Storm **9** Hurricane O Post-Tropical Cyclone or Remnants Current Disturbances and Seven-Day Cyclone Formation Chance: 💥 < 40% 💥 40-60% 💥 > 60% Tropical or Sub-Tropical Cyclone: ○ Depression ∮ Storm ∮ Hurricane ⑧ Post-Tropical Cyclone or Remnants Current Disturbances and Two-Day Cyclone Formation Chance: X < 40% X 40-60% X > 60% Tropical or Sub-Tropical Cyclone: O Depression S form Hurricane O Post-Tropical Cyclone or Remnants

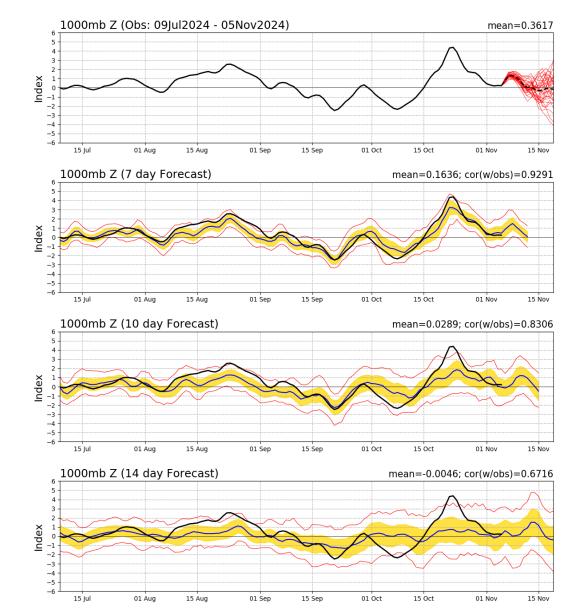
Tropical Cyclone Monitoring/Forecast: JTWC

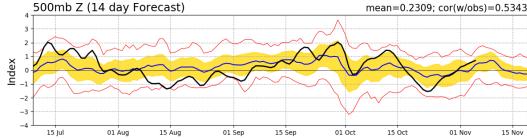






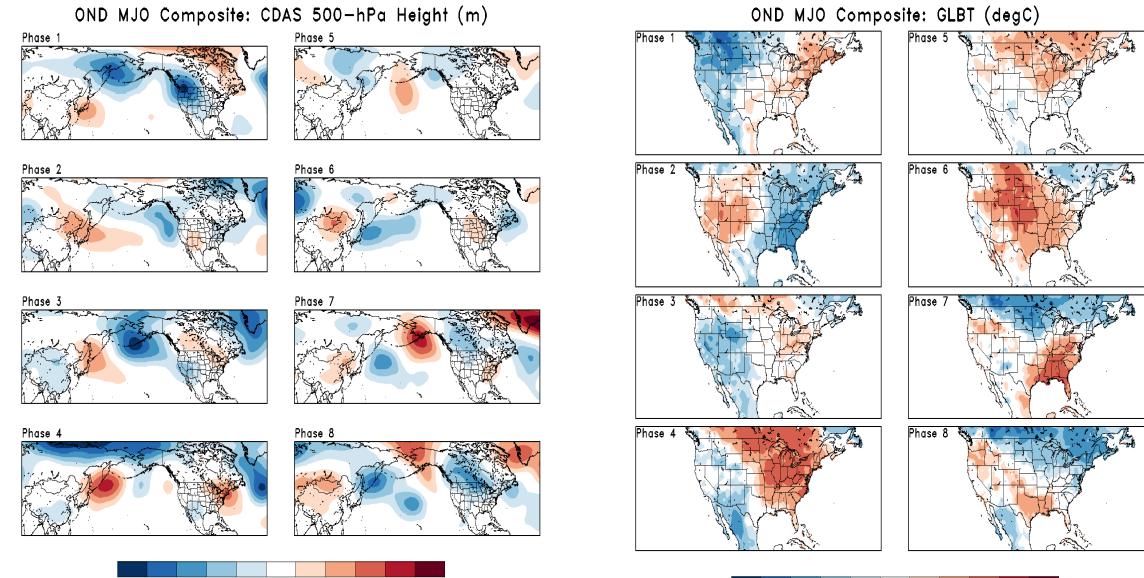
PNA Index: Observed & GEFS Forecasts





AO Index: Observed & GEFS Forecasts

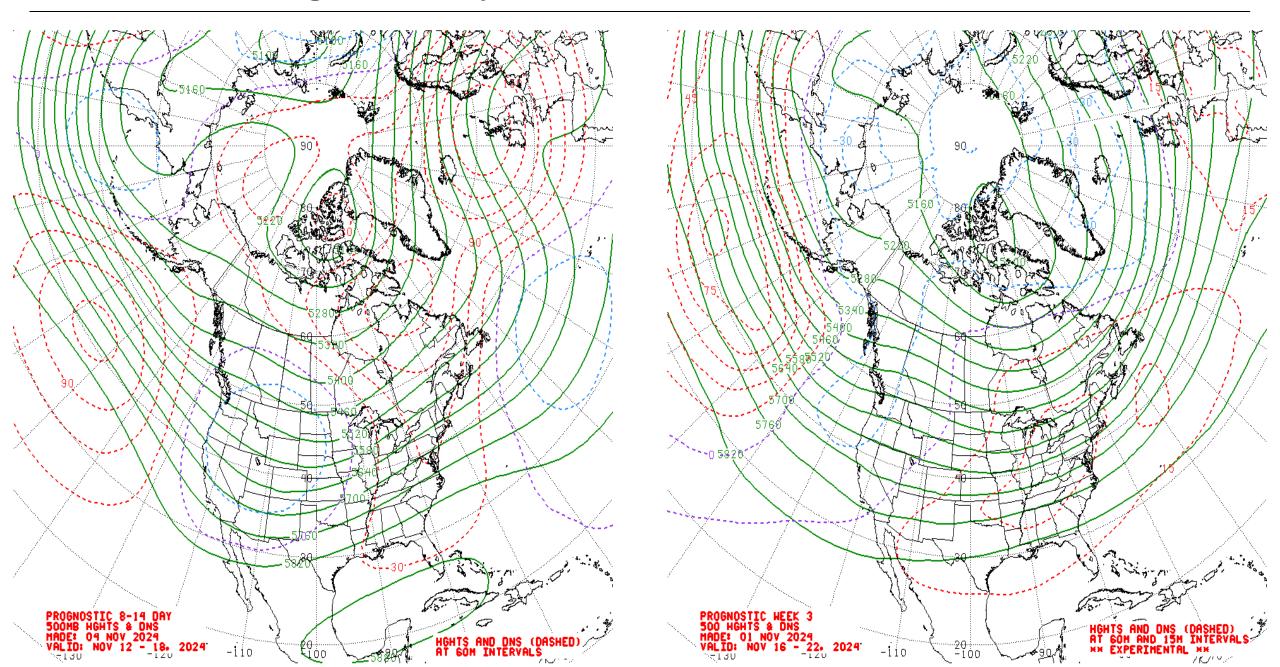
Historical 500-hPa Height & U.S. Temperatures By MJO Phase:



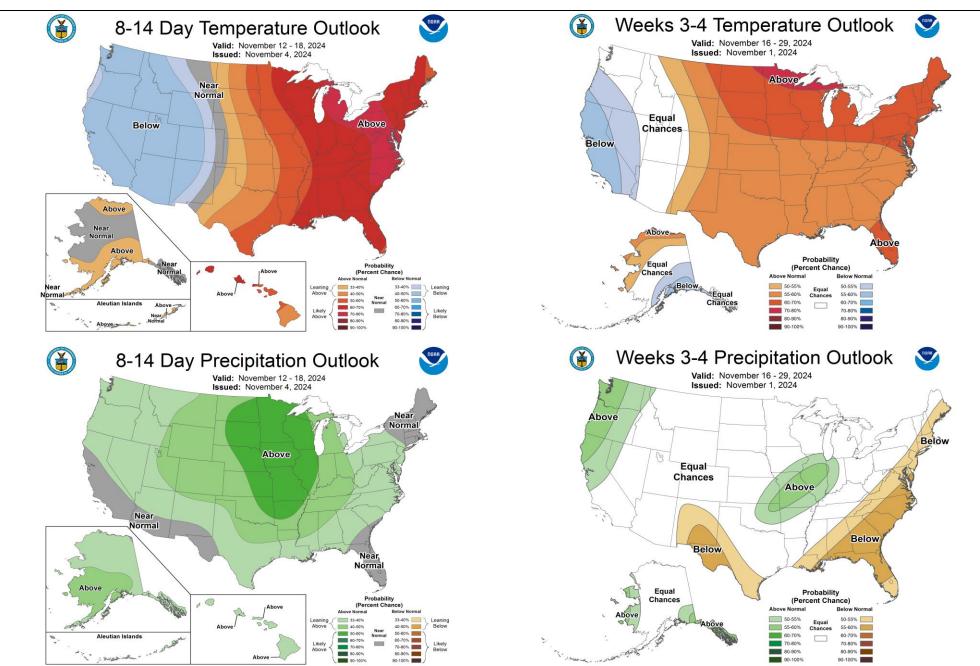
-50 -40 -30 -20 -10 10 20 30 40 50

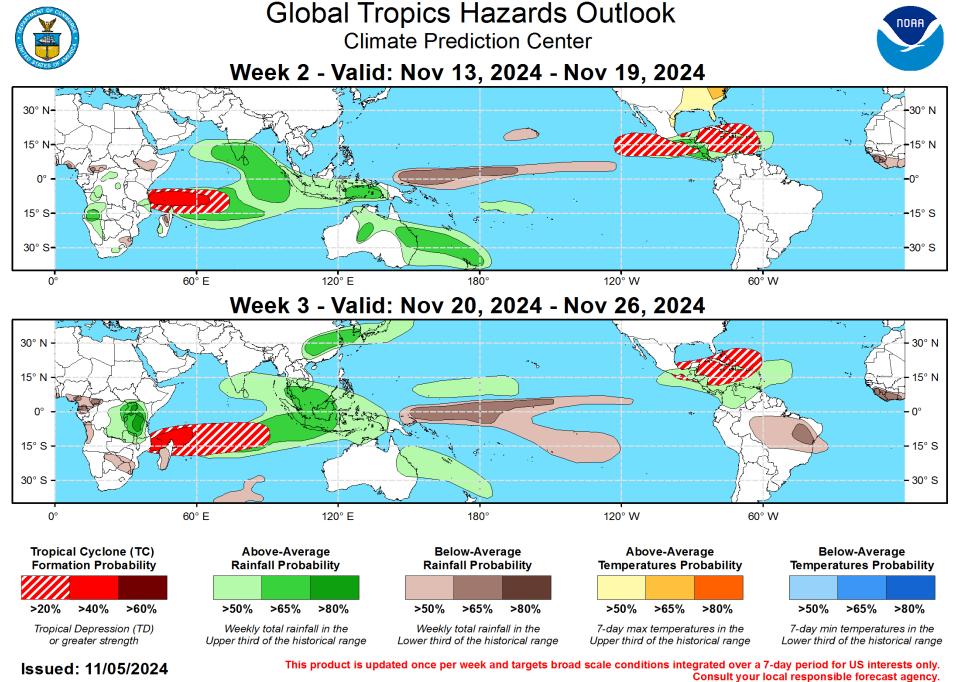
-2 -1.5 -1 -0.5 -0.25 0.25 0.5 1 1.5 2

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



Official Temperature & Precipitation Forecasts:





Forecaster: Allgood