

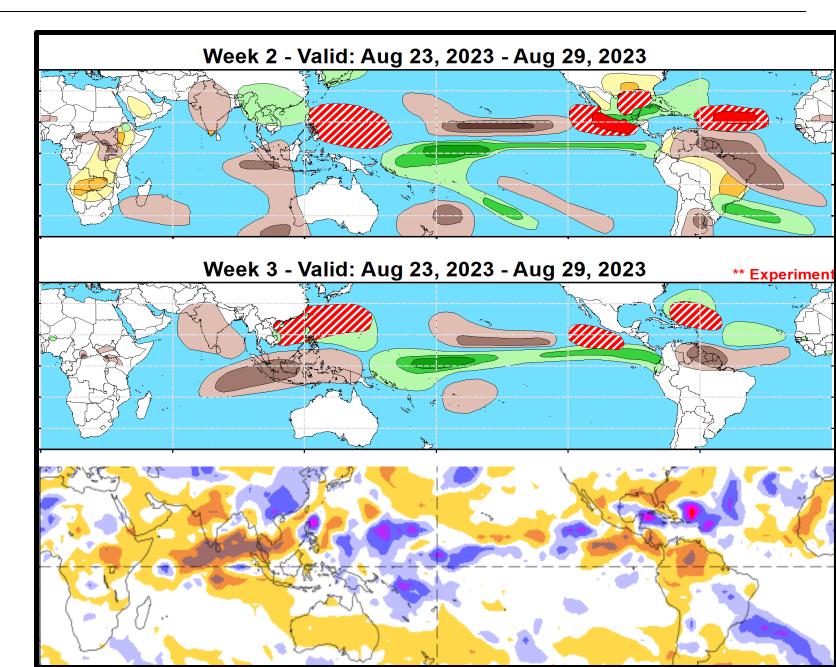


Weeks 2-3 Global Tropics Hazards Outlook 8/29/2023

Adam Allgood NWS / NCEP / Climate Prediction Center

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

- Atlantic: Harold, Idalia, TD-11
- East Pacific: Irwin
- West Pacific: Saola, Haikui



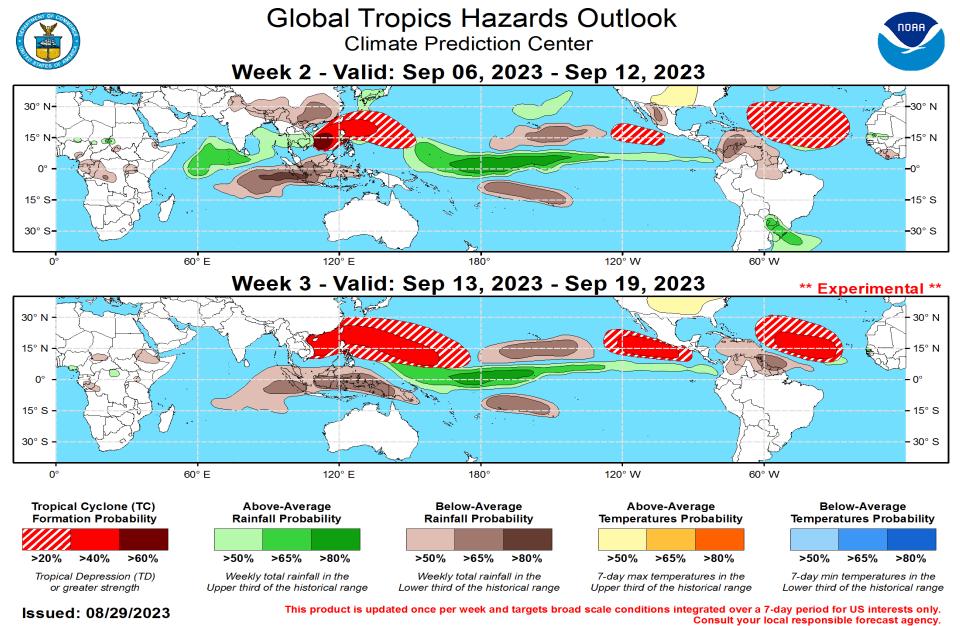
ENSO: (Aug 10, 2023 Update) next update on Thursday, Sep 14th

- ENSO Alert System Status: El Niño Advisory
- El Niño is anticipated to continue through the Northern Hemisphere winter (95% chance during DJF)

MJO and other subseasonal tropical variability:

- An active MJO signal is apparent in the upper-level velocity potential field, with some signal also apparent in the wind field.
- Little MJO activity is apparent in the OLR field due to destructive interference with the ongoing El Niño.
- Dynamical model MJO index forecasts favor increasingly coherent MJO activity, with the enhanced phase propagating across the Maritime Continent during Week-2, and the West Pacific during Week-3.
- The MJO supports increased chances for tropical cyclone development over the South China Sea and Northwest Pacific (spreading southeast with time), and decreased activity over the East Pacific and Atlantic basins during Weeks 2-3.
- Despite the broader unfavorability, the climatological peak of tropical cyclone activity plus unusually warm ocean temperatures maintains a potential for tropical cyclone development during the outlook period.

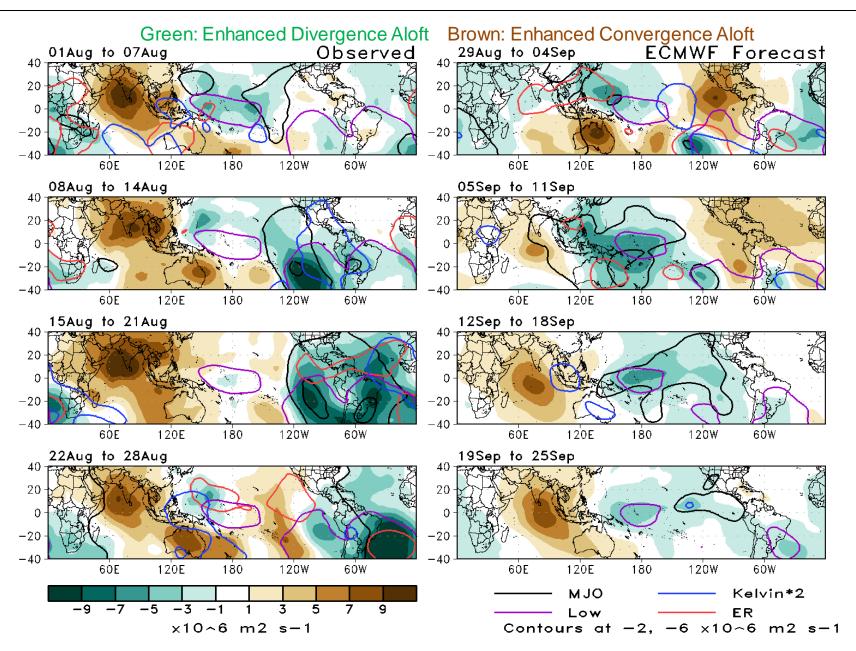
GTH Outlook:



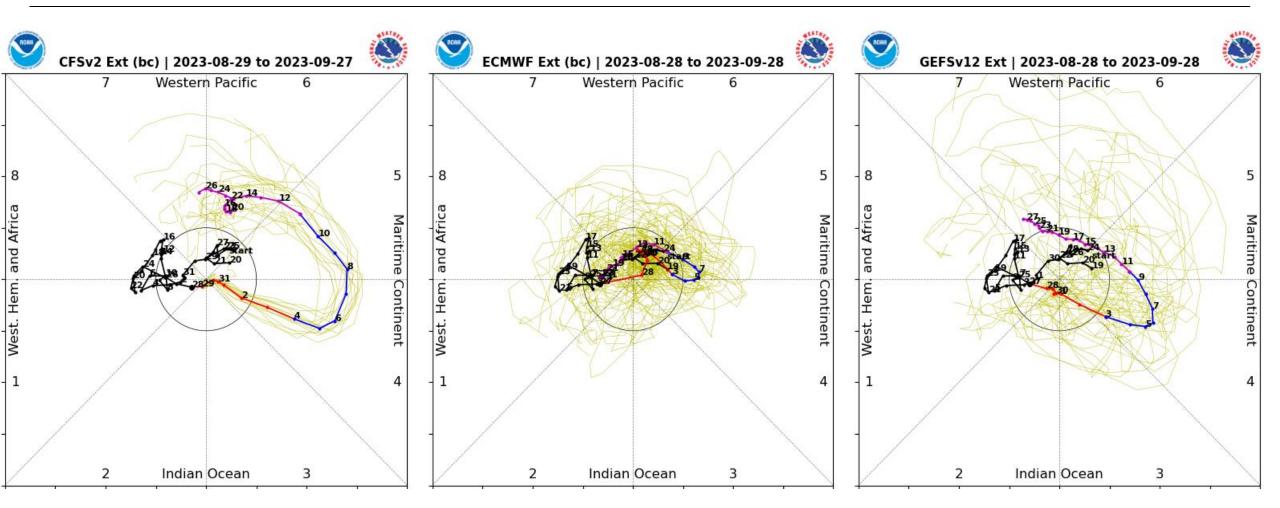
Forecaster: Allgood

200-hPa Velocity Potential Anomaly Maps:

- Eastward propagation of an enhanced signal is apparent over the Western Hemisphere
- A more stationary suppressed signal over the IO and MT, as well as enhancement near the Date Line, are associated with El Niño.
- ECMWF forecasts show more robust MJO activity over the next 4 weeks.

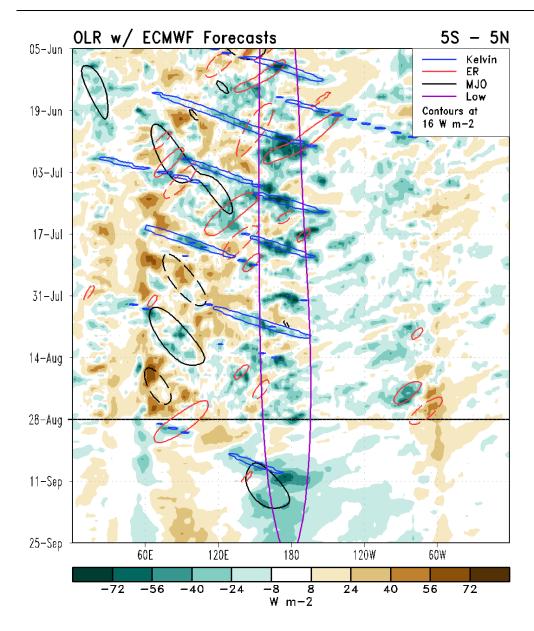


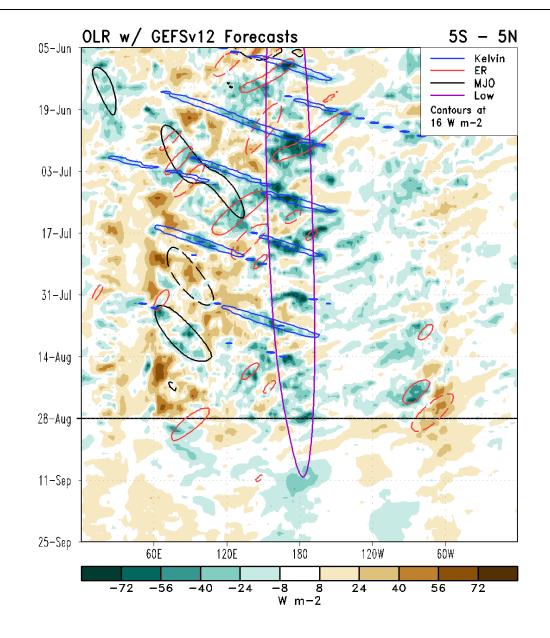
RMM Index Observations & Forecasts:



- The GEFS and CFS favor robust MJO activity over the next few weeks.
- The ECMWF also favors eastward propagation, albeit with a weaker signal.

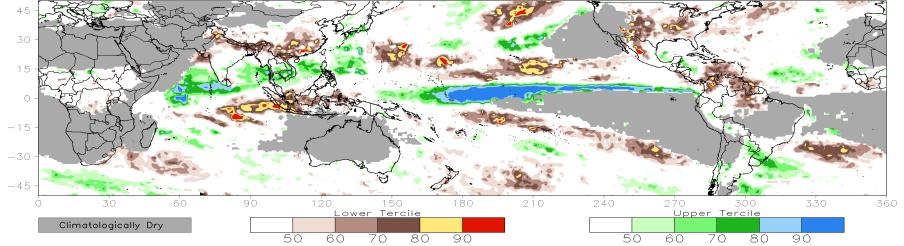
Outgoing Longwave Radiation (OLR) Anomaly Time/Lon Plots:



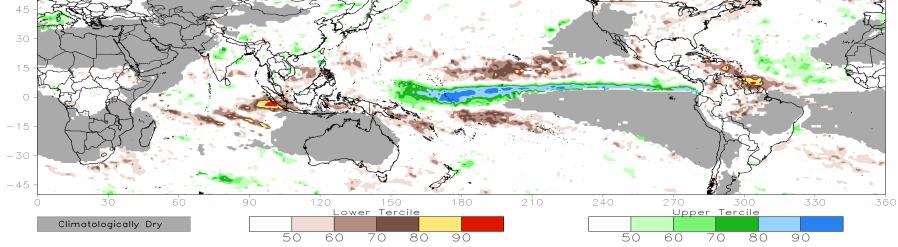


Consolidated Probabilistic Precipitation: Weeks 2 & 3

CONS 00z: Week2 Probability for Total Rainfall Below(Above) Lower(Upper) Tercile (%) Valid: 06Sep2023-12Sep2023

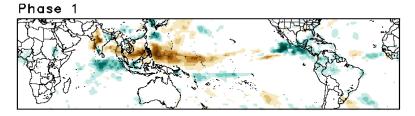


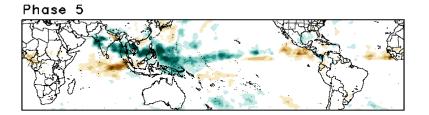
CONS 00z: Week3 Probability for Total Rainfall Below(Above) Lower(Upper) Tercile (%) Valid: 13Sep2023-19Sep2023

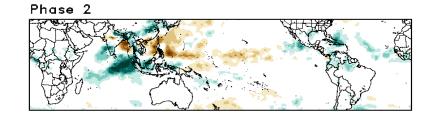


Historical Precipitation Anomalies By MJO Phase:

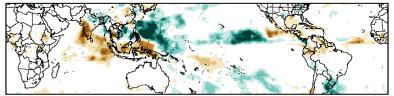
JAS MJO Composite: GPCP1DD (mm/day)



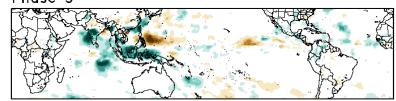




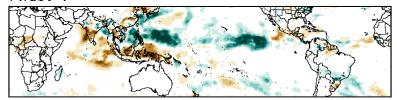




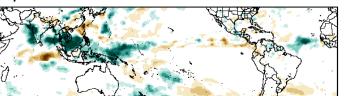




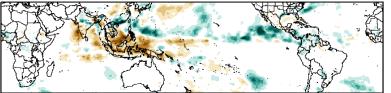
Phase 7





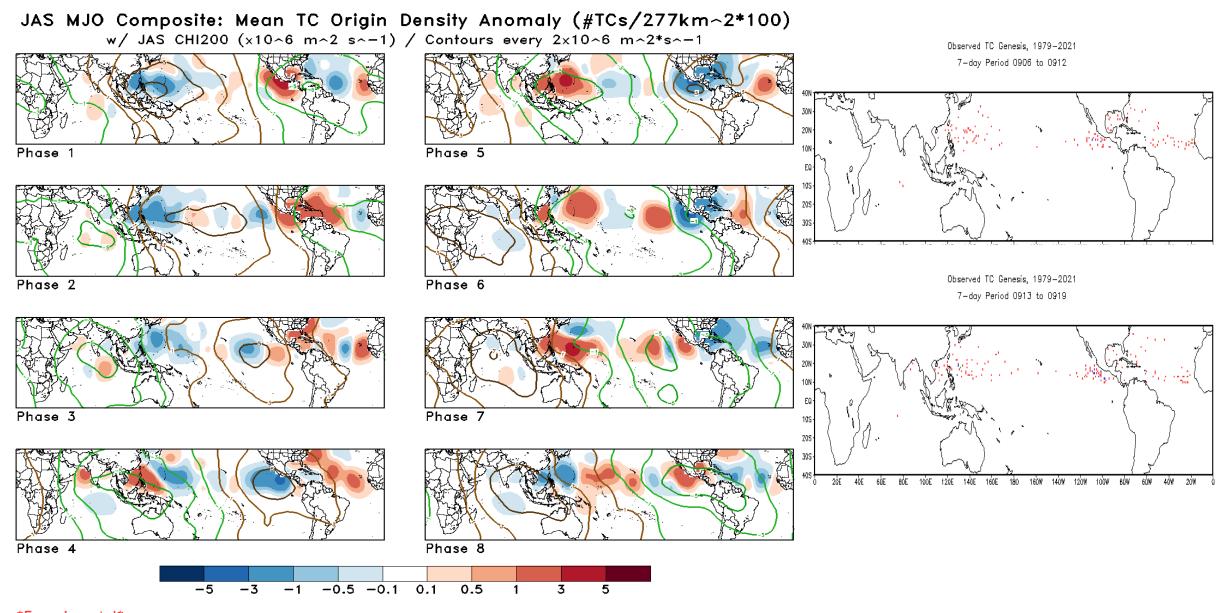






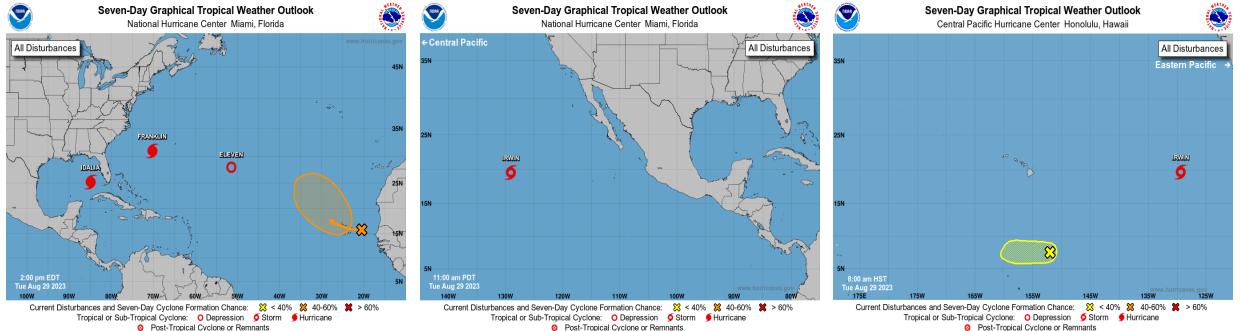


Historical TC Origin Anomalies By MJO Phase & Weeks 2+3 Genesis Climo:



Experimental

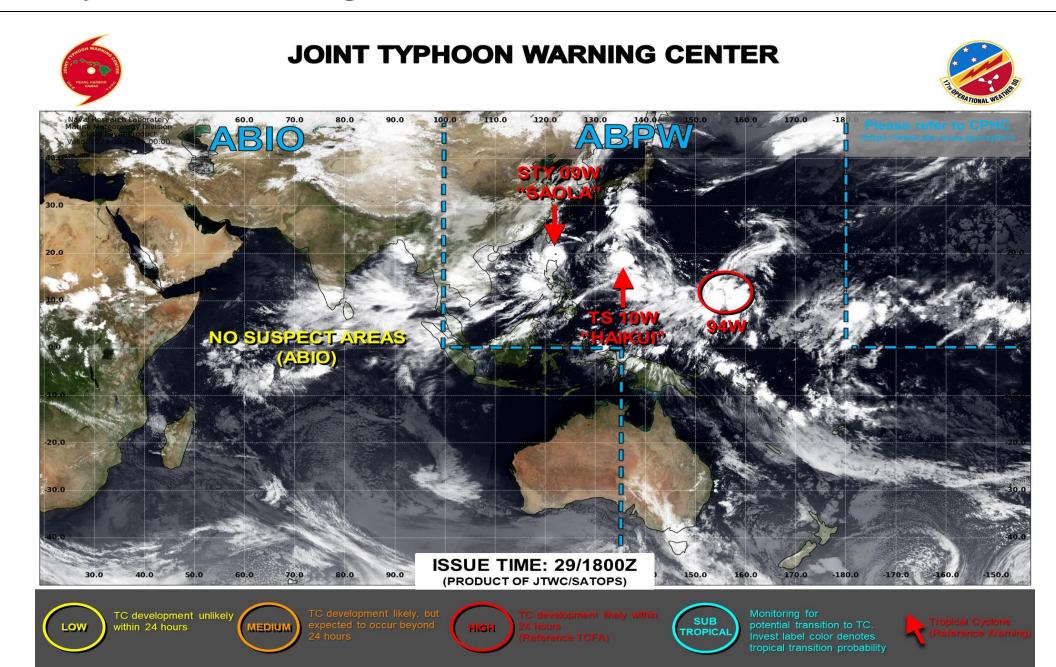
Tropical Cyclone Monitoring/Forecast: NHC / CPHC

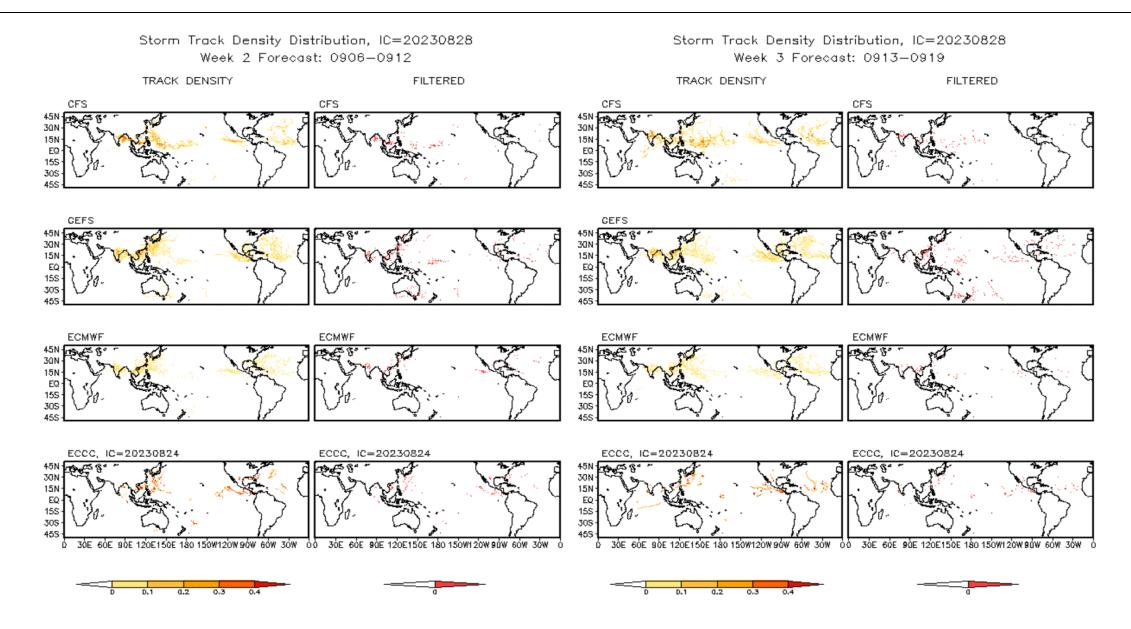


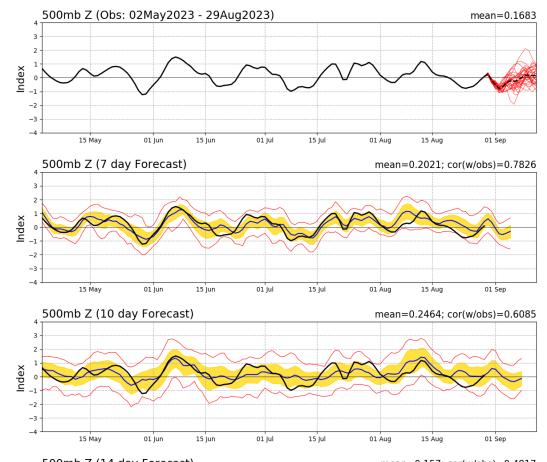
Ø Post-Tropical Cyclone or Remnants

Tropical or Sub-Tropical Cyclone: O Depression Storm Storm Ø Post-Tropical Cyclone or Remnants

Tropical Cyclone Monitoring/Forecast: JTWC

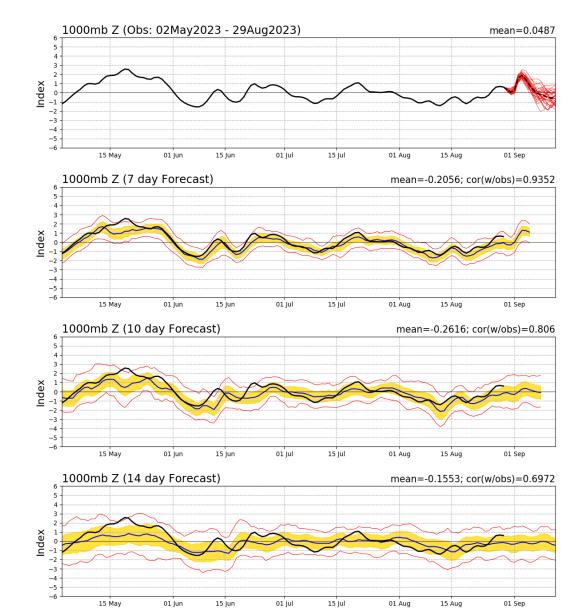


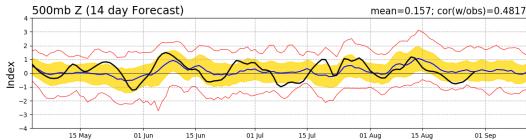




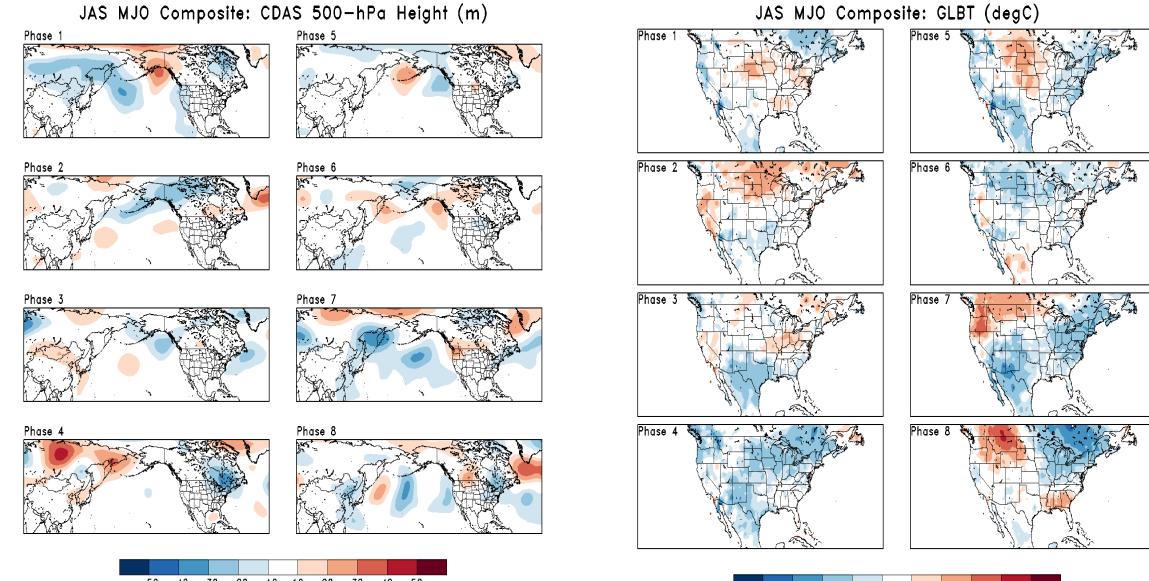
PNA Index: Observed & GEFS Forecasts







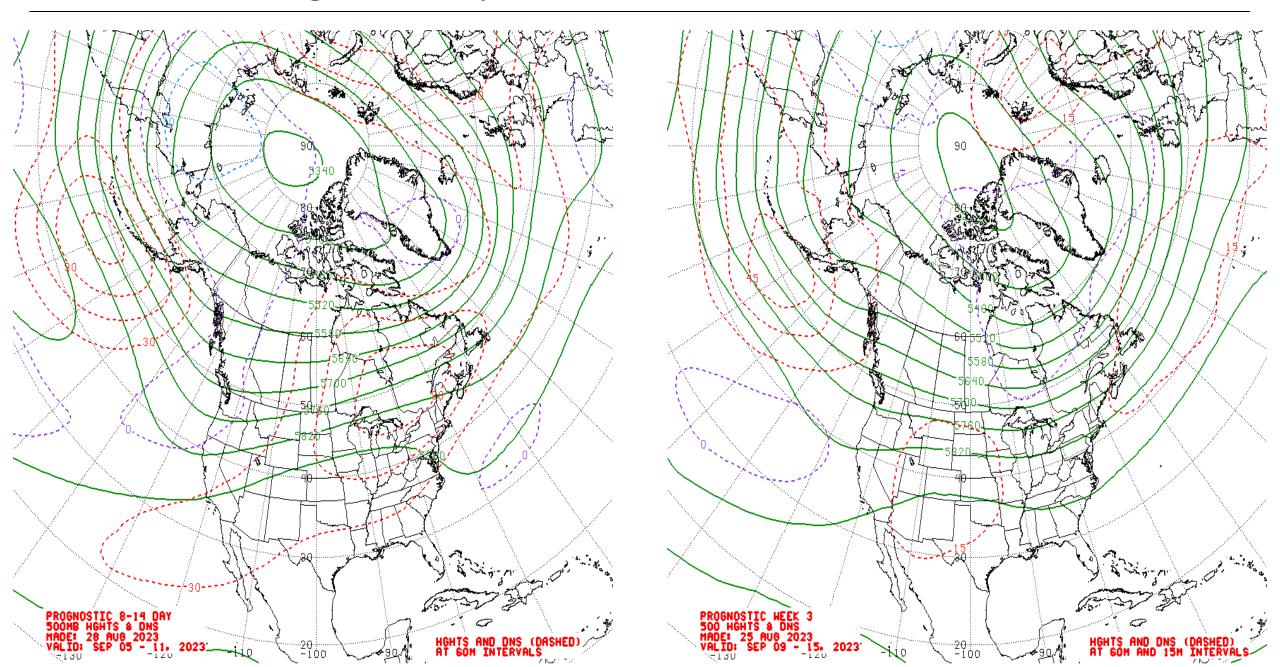
Historical 500-hPa Height & U.S. Temperatures By MJO Phase:



-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:

