



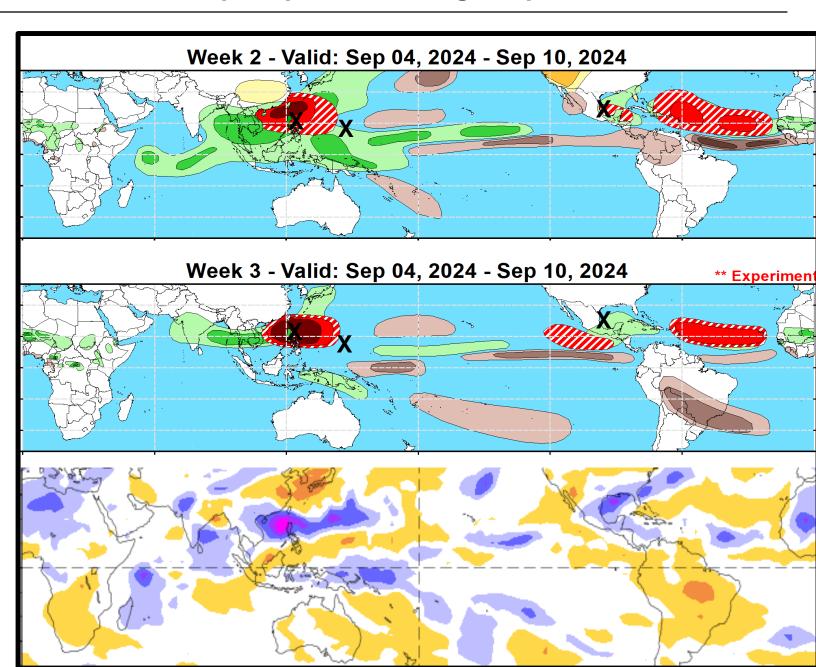
Weeks 2-3 Global Tropics Hazards Outlook 9/10/2024

Brad Pugh
NWS / NCEP / Climate Prediction Center

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

Gulf of Mexico: Tropical Storm Francine

West Pacific: Super Typhoon Yagi and Tropical Depression 14



Synopsis of Climate Modes:

ENSO: (Aug 8, 2024) next update on Thursday, Sep 12th

- ENSO Alert System Status: <u>La Niña Watch</u>
- La Niña favored to emerge during SON (66% chance) and persist into the Northern Hemisphere winter 2024-25 (74% chance during November-January).

MJO and other subseasonal tropical variability:

- A well-defined MJO propagated eastward from the Indian Ocean to the Maritime Continent during the latter half of August. By early September, its eastward progression slowed.
- Dynamical models differ on the future MJO evolution, but the preferred ECMWF model depicts a continued eastward propagating MJO to the Western Hemisphere.
- Tropical cyclone development: West Pacific (very active the next two weeks), East Pacific (increasing chance during late September), Atlantic basin (climatology).

GTH Outlook:

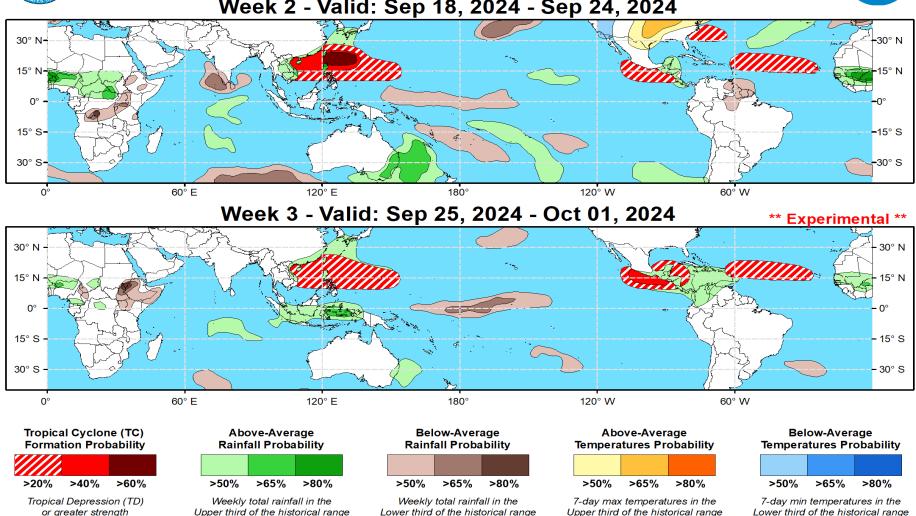


Global Tropics Hazards Outlook

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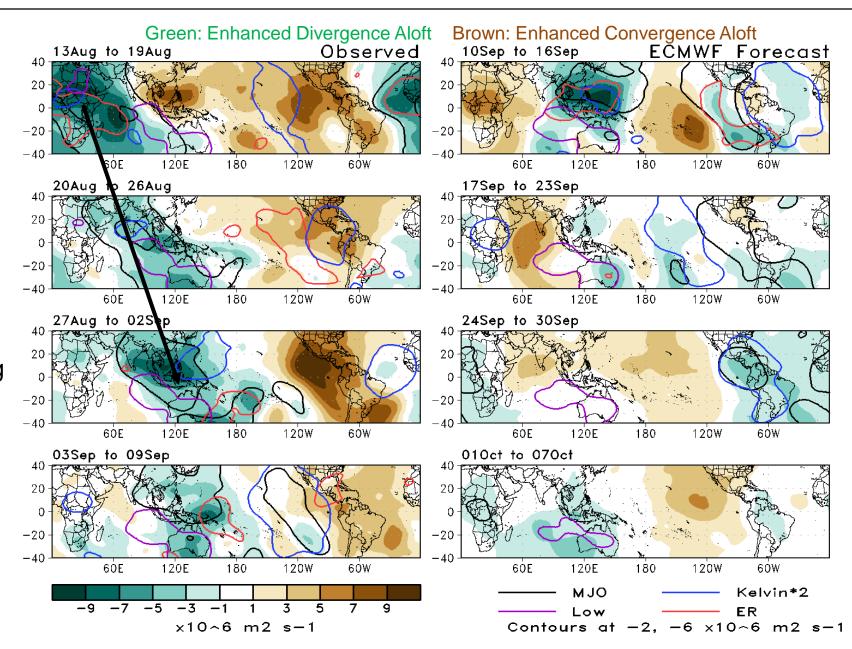


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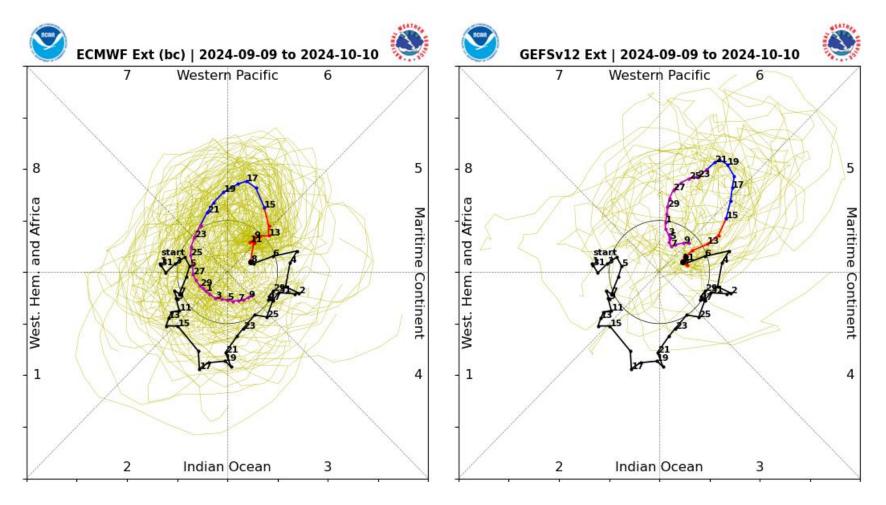
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200-hPa Velocity Potential Anomaly Maps:

- Enhanced MJO phase (aboveaverage rainfall) shifted east from late August to the beginning of September.
- Early September: slower eastward progression
- Mid to late September: enhanced phase overspreading the Western Hemisphere

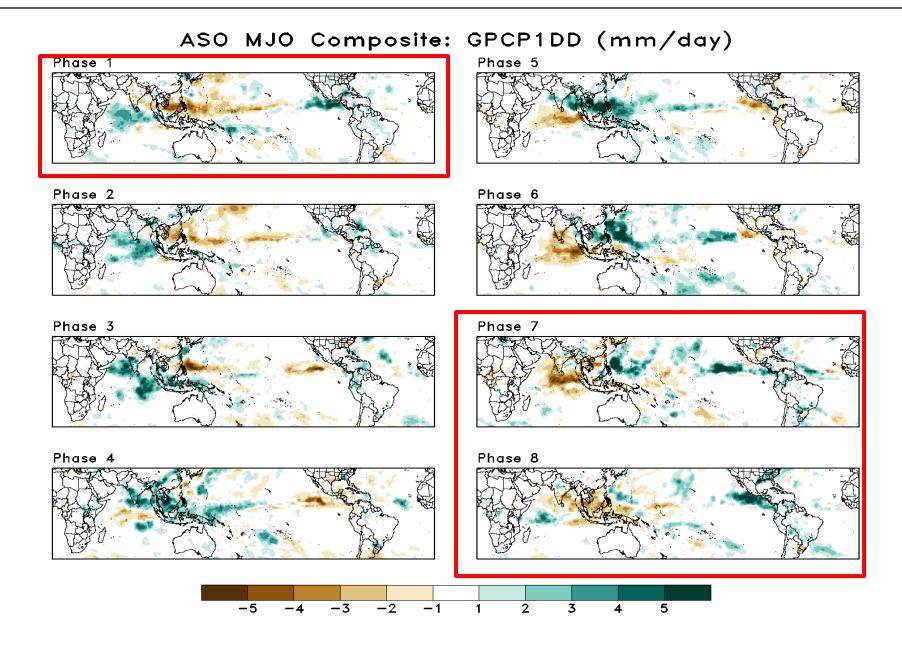


RMM Index Observations & Forecasts:

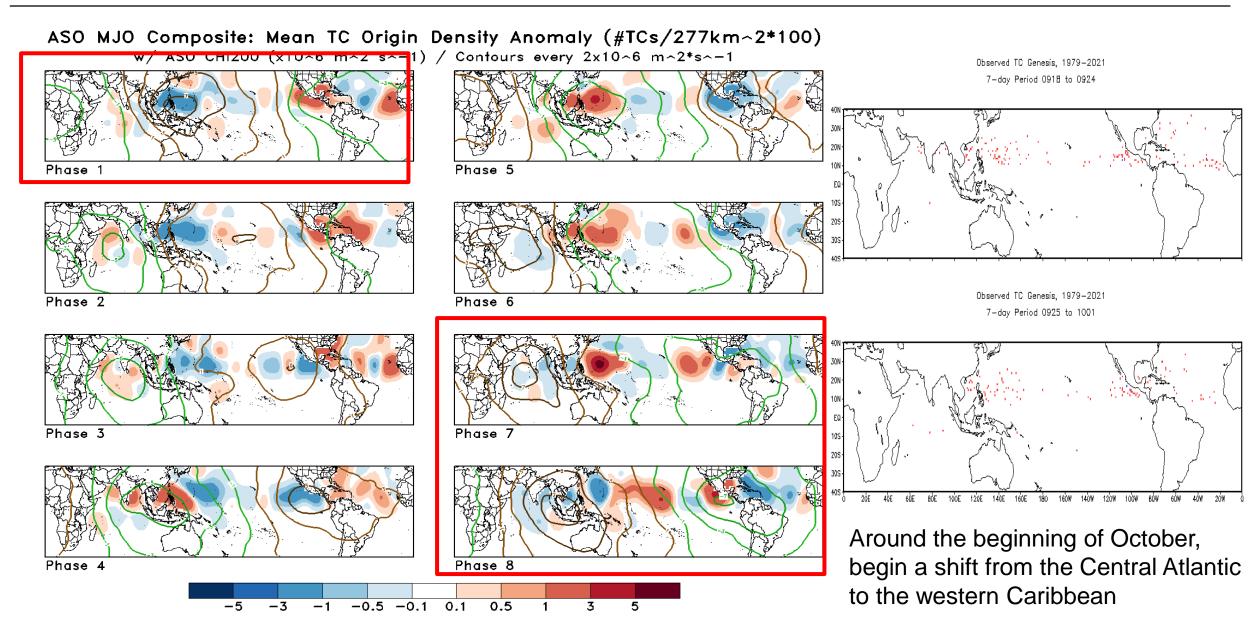


- The preferred ECMWF model favors a circumnavigation of the MJO that returns to the Western Hemisphere (phases 8 and 1) during the next 3 weeks.
- However, a majority of the GFS ensemble members depict little or no eastward propagation.

Historical Precipitation Anomalies By MJO Phase:



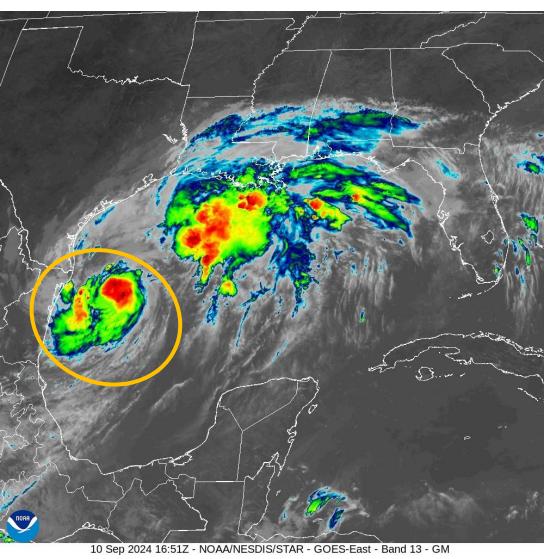
Historical TC Origin Anomalies By MJO Phase & Weeks 2+3 Genesis Climo:

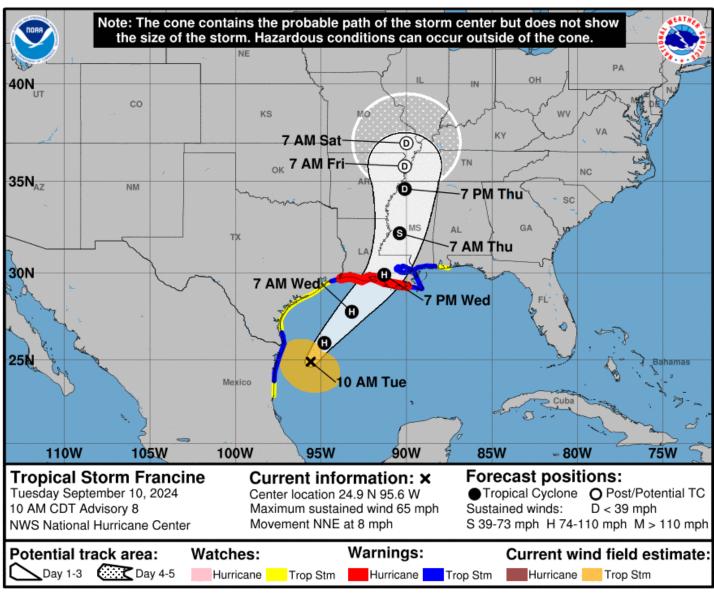


Tropical Cyclone Monitoring/Forecast: NHC / CPHC



Tropical Storm Francine



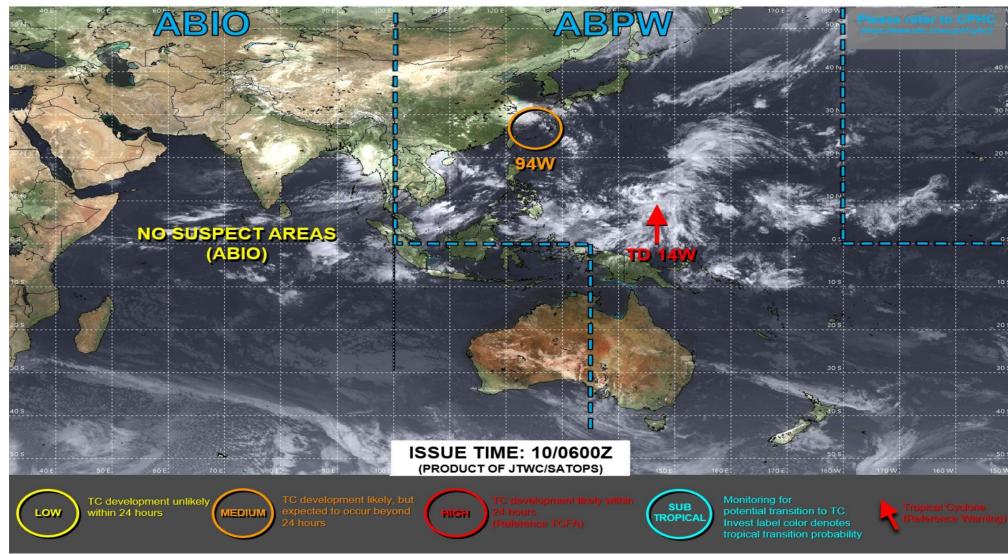


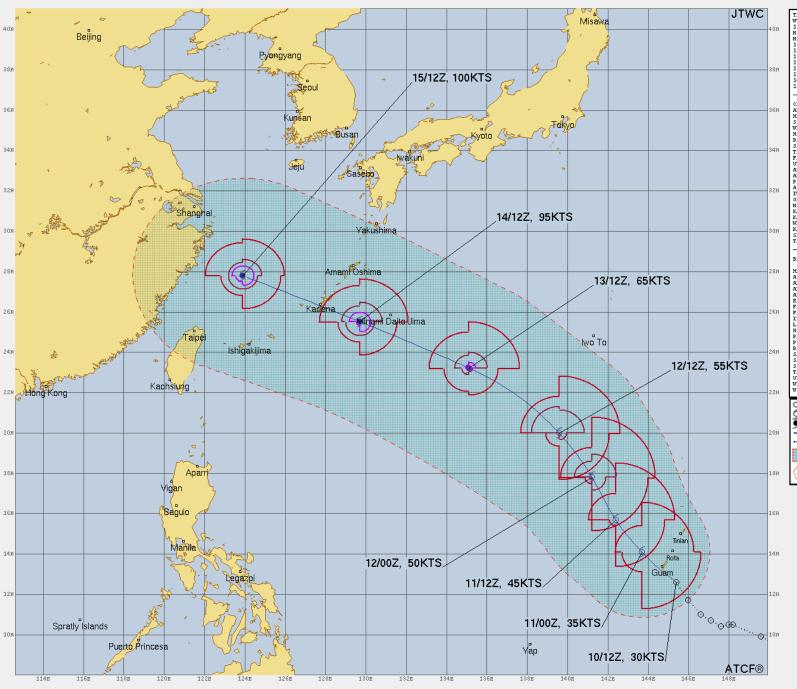
Tropical Cyclone Monitoring/Forecast: JTWC



JOINT TYPHOON WARNING CENTER



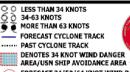




TROPICAL DEPRESSION 14W (BEEINCA) WARNING #3
WTPH31 POTW 101500
1012002 POSIT: HERA 12.5M 145.4E
MOUTHO 325 DEGREES TRUE AT 11 KNOTS
HAXIMMS SCONFICENT WARE MEIGHT: 16 FEET
10/122, WITHOS 030 KTS, GUSTS TO 040 KTS
11/022, WITHOS 035 KTS, GUSTS TO 045 KTS
12/122, WITHOS 055 KTS, GUSTS TO 045 KTS
12/122, WITHOS 055 KTS, GUSTS TO 045 KTS
12/122, WITHOS 055 KTS, GUSTS TO 055 KTS
12/122, WITHOS 055 KTS, GUSTS TO 070 KTS
13/122, WITHOS 055 KTS, GUSTS TO 115 KTS
14/122, WITHOS 055 KTS, GUSTS TO 115 KTS
15/122, WITHOS 100 KTS, GUSTS TO 115 KTS

CPA TO:	нм	DTG	
ANDERSEN AFB	24	09/10/172	
HAGATHA	6	09/10/172	
SOROL	395	09/10/172	
WFO GUAM	16	09/10/172	
NAVSTA GUAM	2	09/10/18z	
ROTA	57		
SATPAN	122	09/10/192	
TINIAN	114		
FAIS	317	09/10/222	
VLITHI	348	09/11/00z	
ANATAHAN	179	09/11/032	
ALAMAGAN	226	09/11/112	
PAGAN	241	09/11/152	
AGRIHAN	254	09/11/192	
IWO TO	275	09/12/212	
OKIDAITO JIMA	23	09/14/052	
MINAMIDATTO JIMA	49	09/14/072	
KANOYA	348	09/14/192	
KADENA AB	8	09/14/202	
WHITE BEACH	5	09/14/202	
KAOHSIUNG	368	09/15/122	
SHANGHAI	239	09/15/122	
TAIPEI	207	09/15/122	

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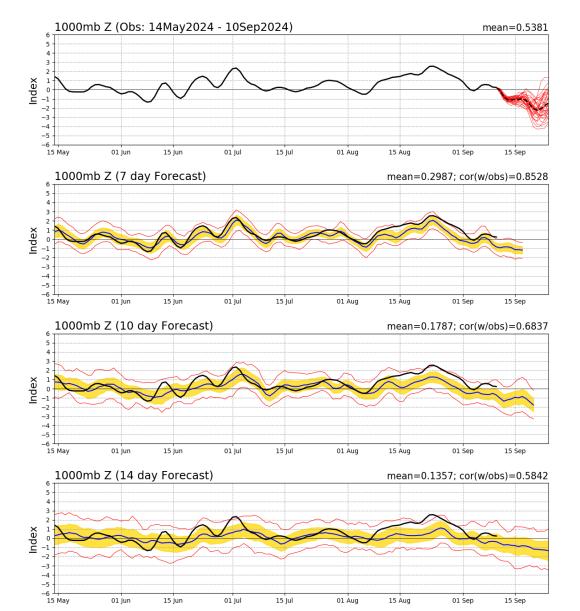
FORECAST 34/50/64 KNOT WIND RADII (WINDS VALID OVER OPEN OCEAN ONLY)

Teleconnection Indices: PNA / AO:

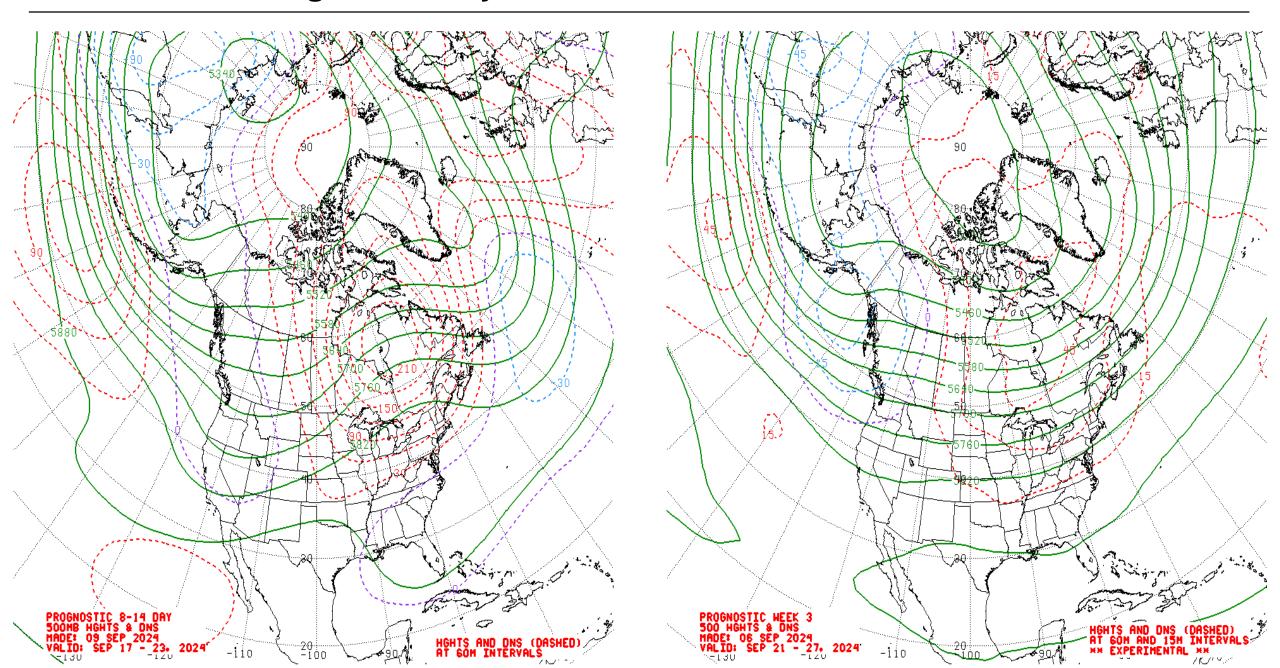
PNA Index: Observed & GEFS Forecasts

500mb Z (Obs: 14May2024 - 10Sep2024) mean = -0.032515 May 15 Jul 01 Aug 15 Aug 15 Sep 500mb Z (7 day Forecast) mean=-0.0079; cor(w/obs)=0.870215 May 15 Jun 01 Aug 15 Sep 500mb Z (10 day Forecast) mean=-0.0211; cor(w/obs)=0.6599-4 H 15 May 01 Jun 15 Jun 15 Jul 01 Aug 15 Aug 01 Sep 15 Sep 500mb Z (14 day Forecast) mean=-0.0346; cor(w/obs)=0.482601 Aug 15 May 15 Jun 15 Jul 15 Aug 15 Sep 01 Sep

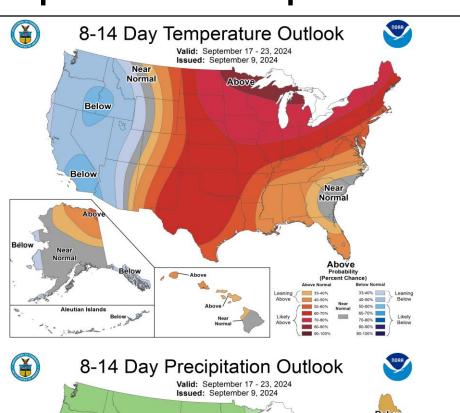
AO Index: Observed & GEFS Forecasts

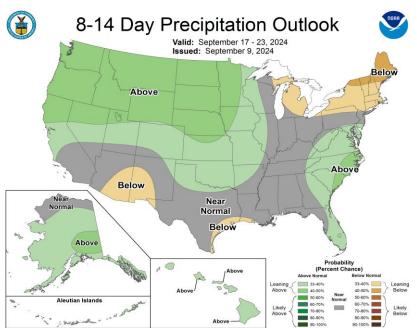


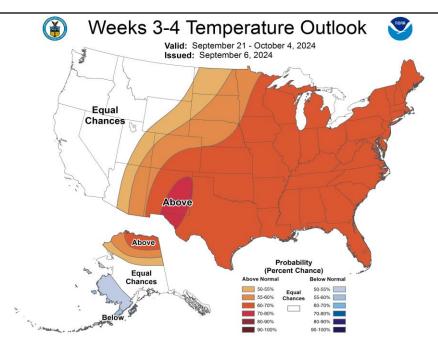
Mean 500-hPa Height Anomaly Forecasts: Weeks 2+3

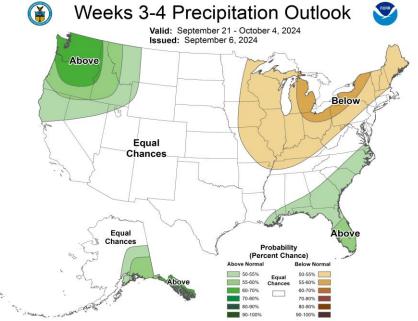


Official Temperature & Precipitation Forecasts:









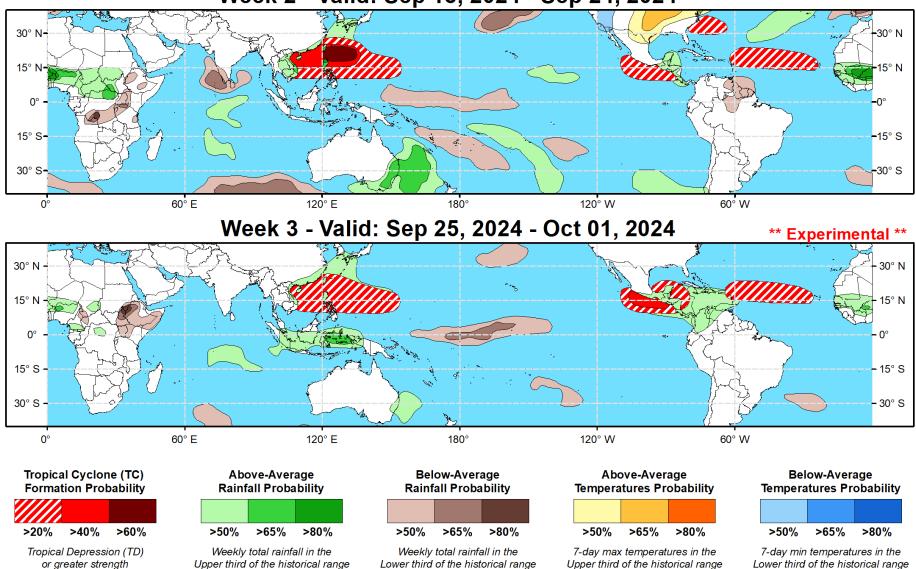


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