

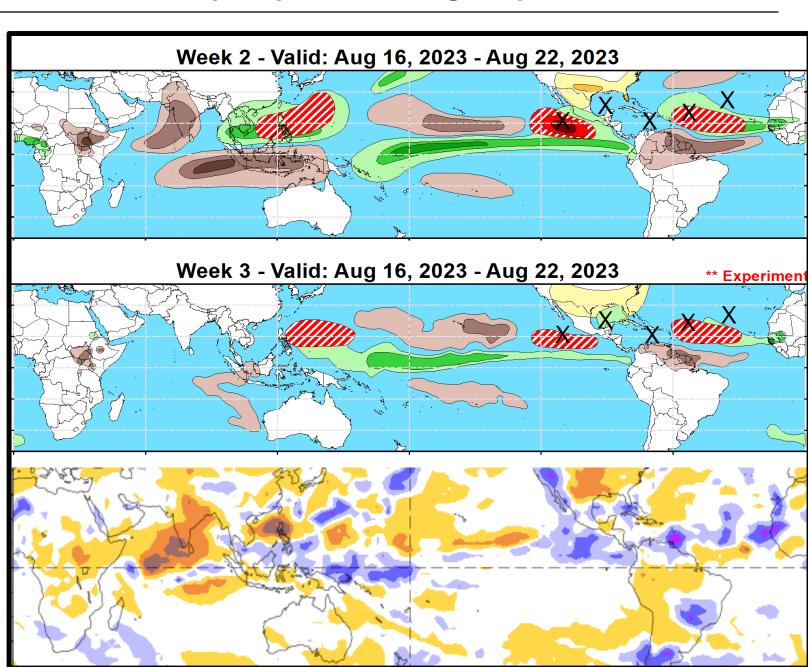


Weeks 2-3 Global Tropics Hazards Outlook 8/22/2023

Brad Pugh
NWS / NCEP / Climate Prediction Center

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

- East Pacific: Hurricane Hilary
- Atlantic: 4 Tropical Cyclones
- Gert and Emily (short-lived)
- Franklin (tracking towards Hispaniola)
- Harold (made landfall in Padre Island, TX)



Synopsis of Climate Modes:

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

- ENSO Alert System Status: El Niño Advisory
- El Niño is expected to continue through the Northern Hemisphere winter.

MJO and other subseasonal tropical variability:

- The MJO strengthened during mid-August with its enhanced phase over the Western Hemisphere.
- Dynamical models depict the MJO propagating east to the West Pacific from late August to early September.
- This predicted MJO evolution coupled with nearing the peak in climatology supports enhanced chances for tropical cyclone (TC) development across the Atlantic basin.
- The East (West) Pacific are forecast to become less (more) favorable for TC development by the beginning of September.

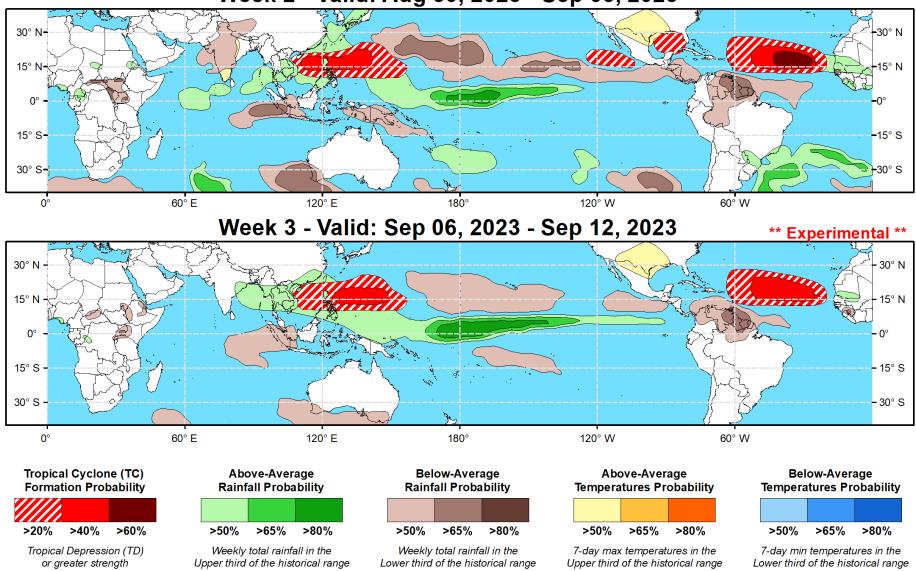


Global Tropics Hazards Outlook

Climate Prediction Center



Week 2 - Valid: Aug 30, 2023 - Sep 05, 2023

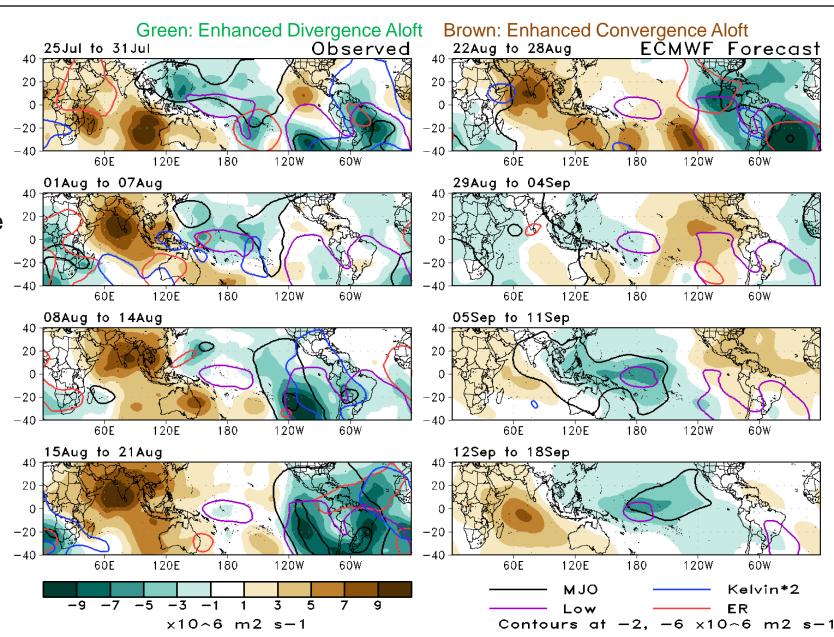


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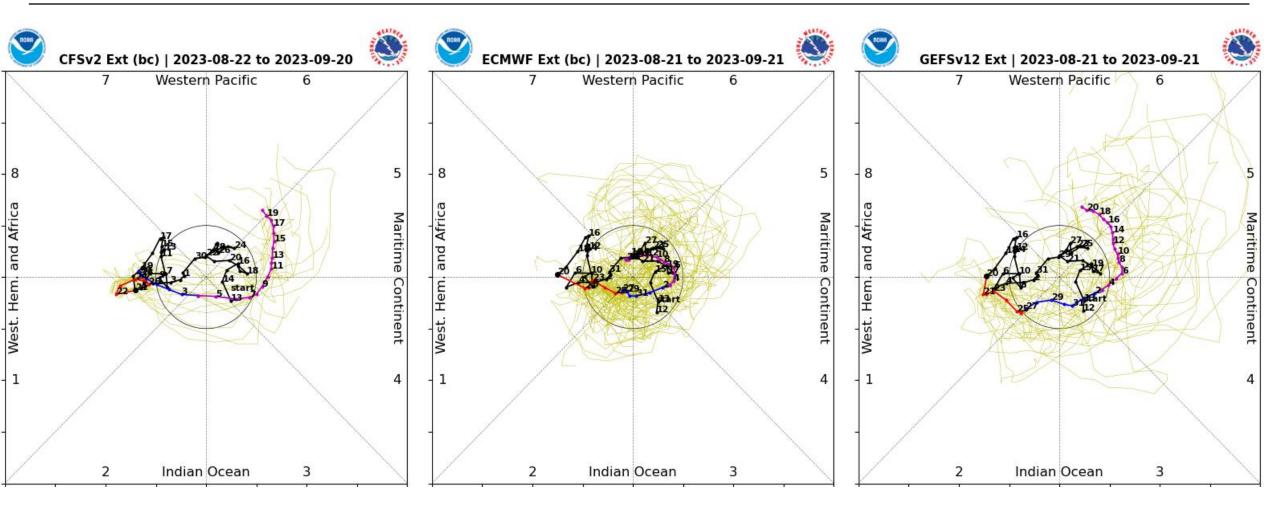
Consult your local responsible forecast agency.

200-hPa Velocity Potential Anomaly Maps:

- Less coherent pattern during late July and early August.
- By mid-August, a better defined wave-1 structure emerged in the observations.
- Forecast: Note the eastward propagation of the enhanced and suppressed phases during the next three weeks.

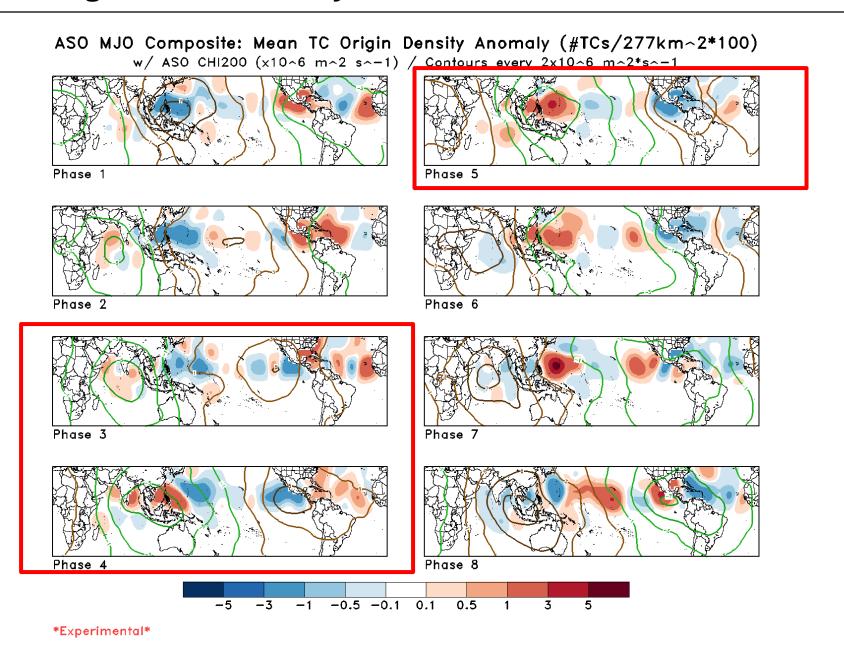


RMM Index Observations & Forecasts:



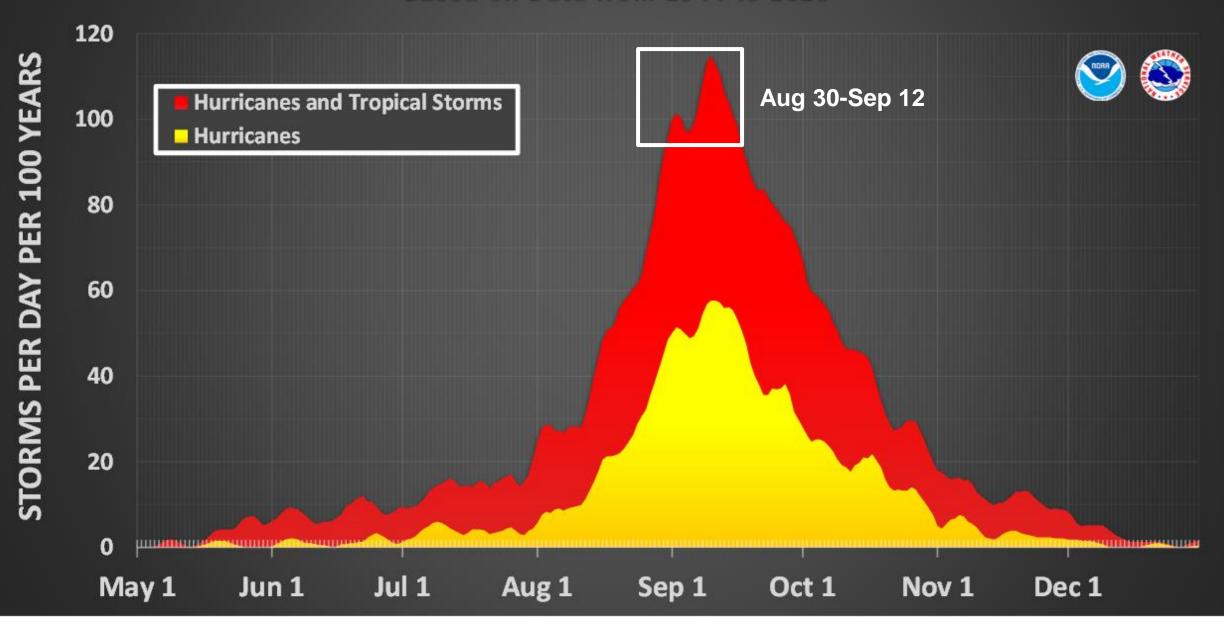
- Large spread on the amplitude due to interference with the background El Nino.
- CFS, ECMWF, and GEFS agree on counterclockwise (eastward) rotation of the MJO through mid-September.

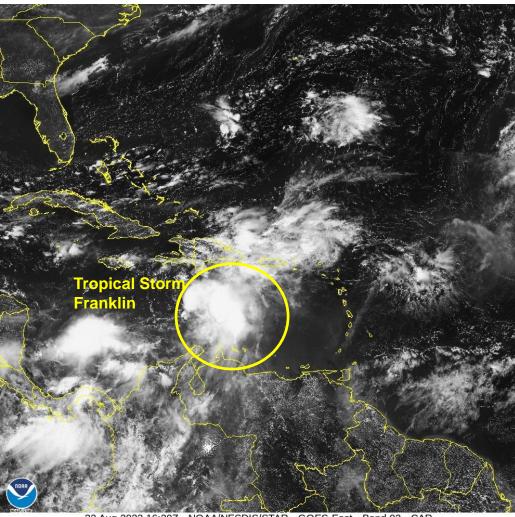
Historical TC Origin Anomalies By MJO Phase & Weeks 2+3 Genesis Climo:



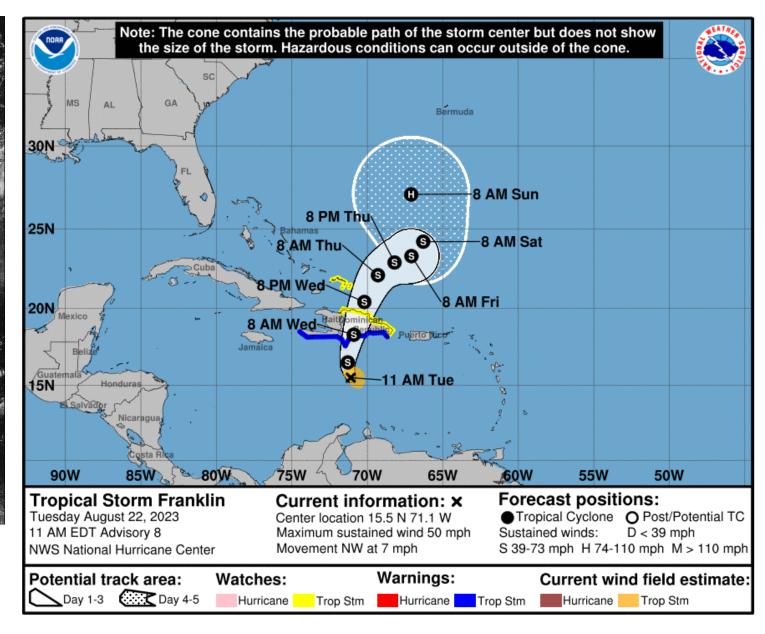
Atlantic Hurricane and Tropical Storm Activity

Based on Data from 1944 to 2020





22 Aug 2023 16:20Z - NOAA/NESDIS/STAR - GOES-East - Band 02 - CAR



Tropical Cyclone Monitoring/Forecast: JTWC



TC development unlikely within 24 hours

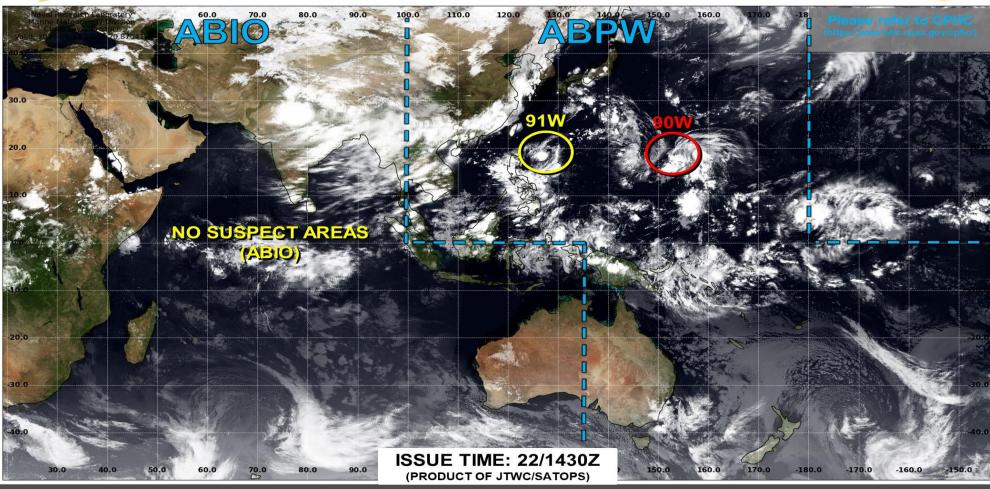
JOINT TYPHOON WARNING CENTER



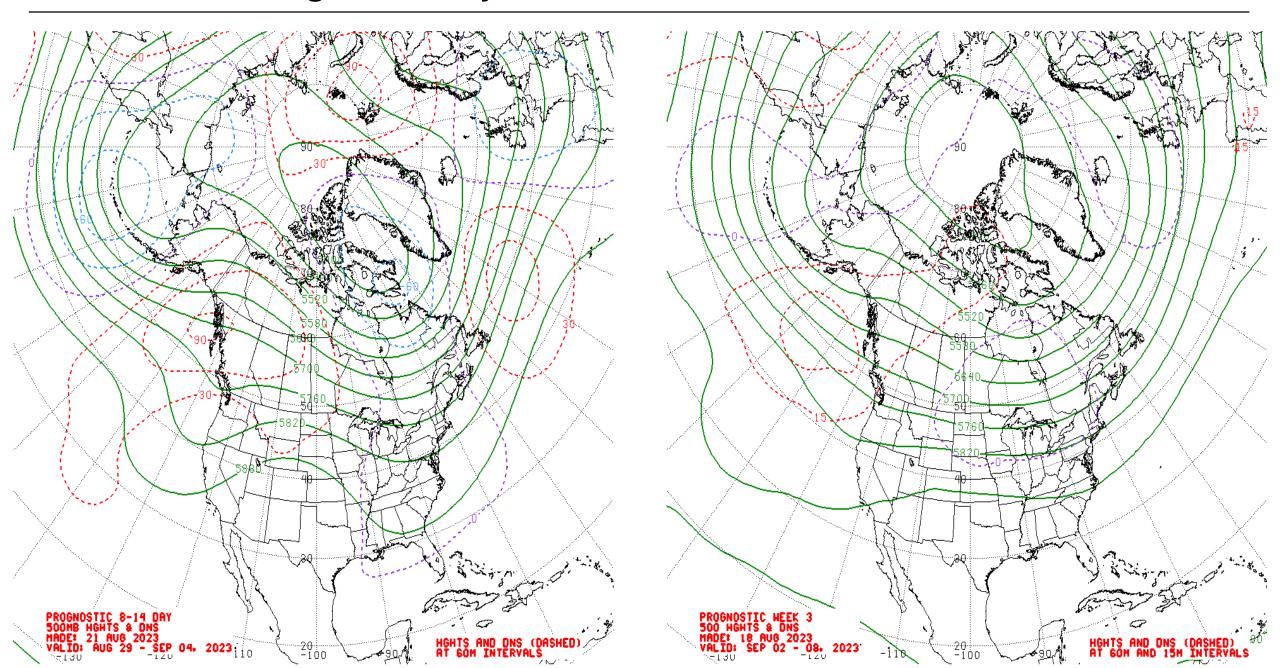
potential transition to TC.

tropical transition probability

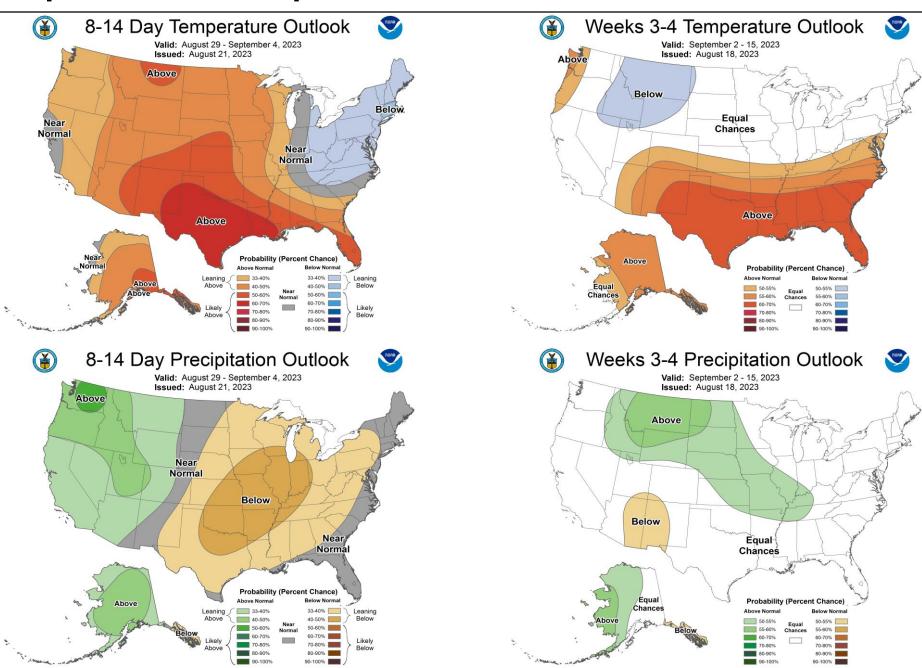
TROPICAL



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



Official Temperature & Precipitation Forecasts:



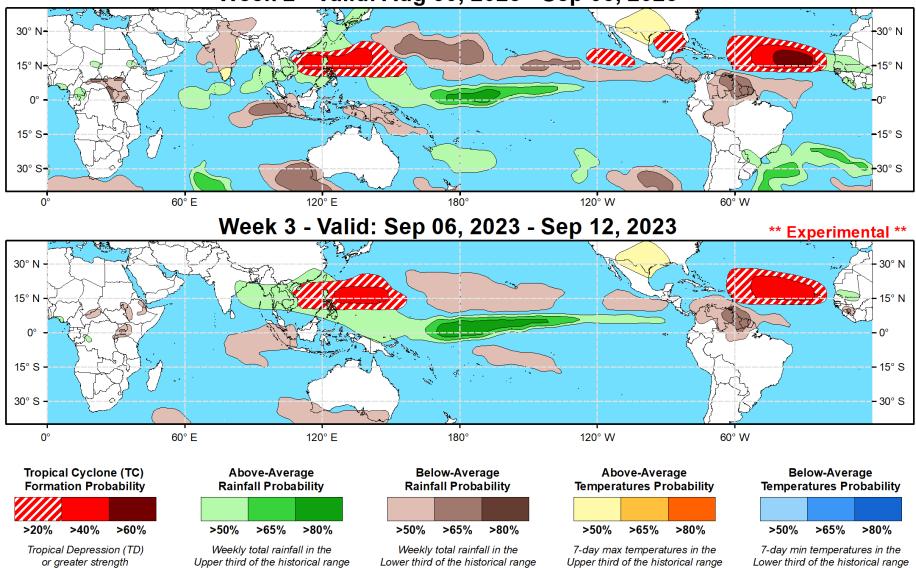


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