



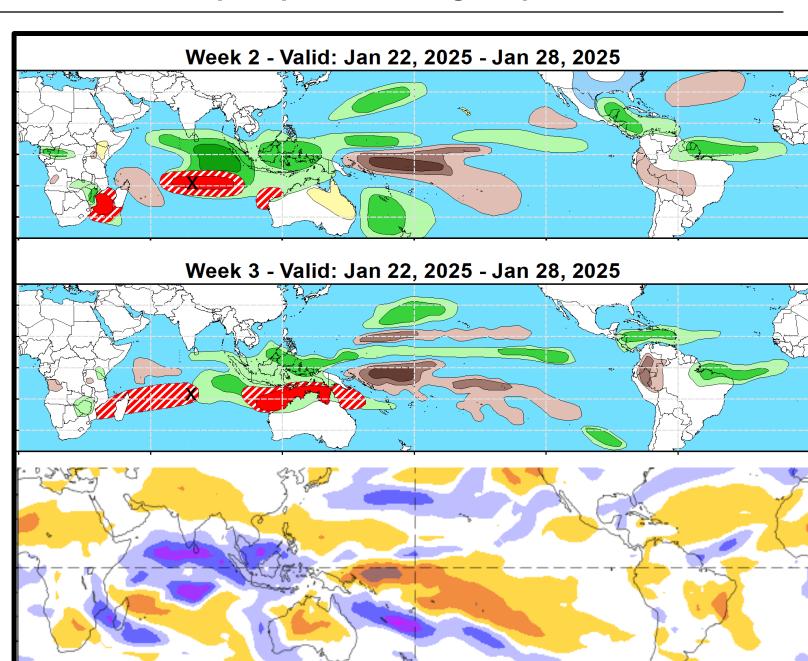
Weeks 2-3 Global Tropics Hazards Outlook 1/28/2025

Brad Pugh
NWS / NCEP / Climate Prediction Center

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

January 28: Tropical Cyclone 11S

Joint Typhoon Warning Center: monitoring Mozambique Channel and Coral Sea



Synopsis of Climate Modes:

ENSO: (Jan 9, 2025 Update) next update on Thursday, Feb 13th

- ENSO Alert System Status: <u>La Niña Advisory</u>
- La Niña conditions are present and are expected to persist through Feb-Apr 2025 (59% chance),
 with a transition to ENSO-neutral likely during Mar-May 2025 (60% chance)

MJO and other subseasonal tropical variability:

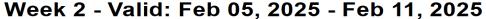
- A robust MJO propagated eastward over the Indian Ocean to the Maritime Continent during late January.
- Dynamical models are in good agreement that the MJO continues its eastward propagation to the West Pacific through early February.
- Multiple tropical cyclones are expected to develop over the South Indian Ocean during the next two
 weeks. Areas near northern Australia and the South Pacific are also favored to be quite active through
 mid-February.

GTH Outlook:

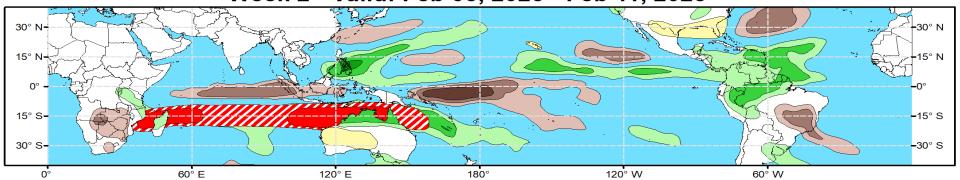


Global Tropics Hazards Outlook

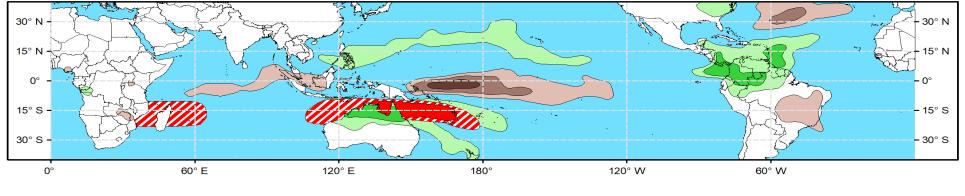
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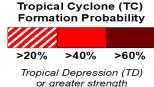






Week 3 - Valid: Feb 12, 2025 - Feb 18, 2025





>50% >65% >80%

Weekly total rainfall in the

Upper third of the historical range

Above-Average
Rainfall Probability

>50% >65% >80%

Weekly total rainfall in the

Below-Average
Rainfall Probability

>50% >65% >80%

Weekly total rainfall in the

Lower third of the historical range

Above-Average
Temperatures Probability
>50% >65% >80%

7-day max temperatures in the Upper third of the historical range Below-Average
Temperatures Probability
>50% >65% >80%

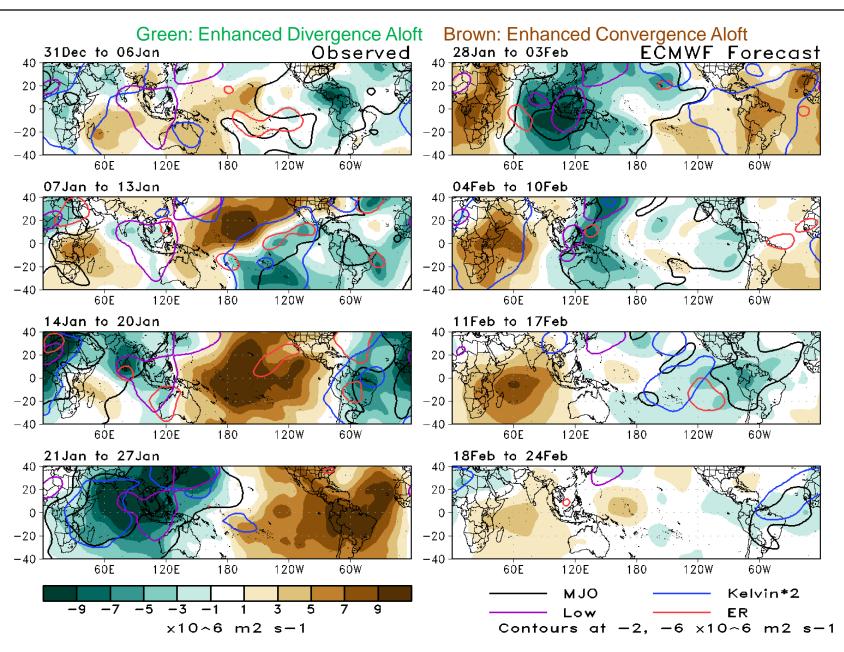
7-day min temperatures in the Lower third of the historical range

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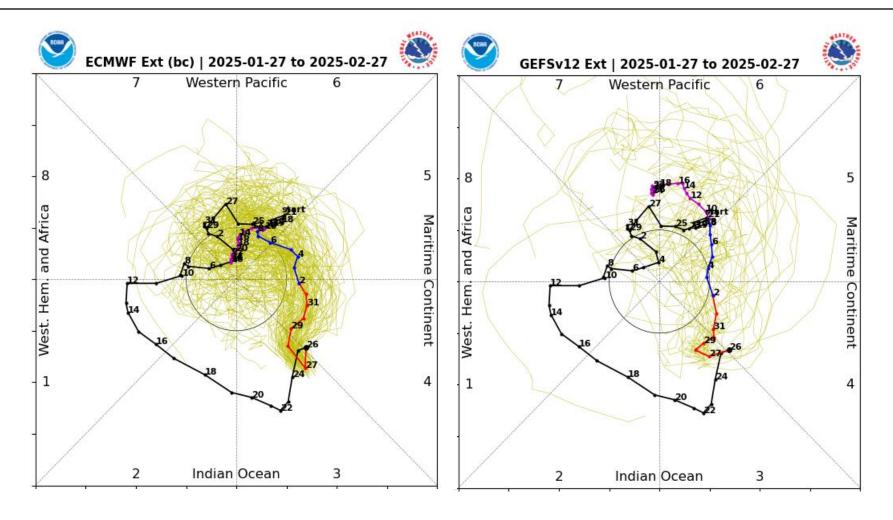
Consult your local responsible forecast agency.

200-hPa Velocity Potential Anomaly Maps:

- Late January: wave-1 pattern of strong anomalous upper-level divergence (convergence) over the Indian Ocean and Maritime Continent (Americas)
- MJO may begin to weaken by mid-February as it destructively interferes with La Nina

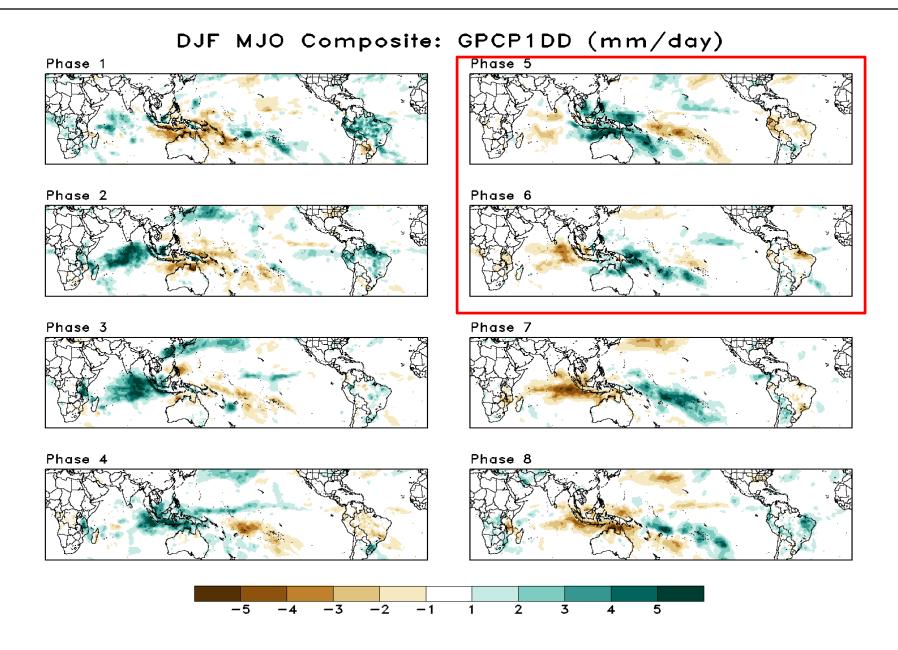


RMM Index Observations & Forecasts:



- Good model agreement on continued eastward propagation to the West Pacific.
- Ensemble spread is large on the amplitude of the RMM index (MJO strength) by early February.

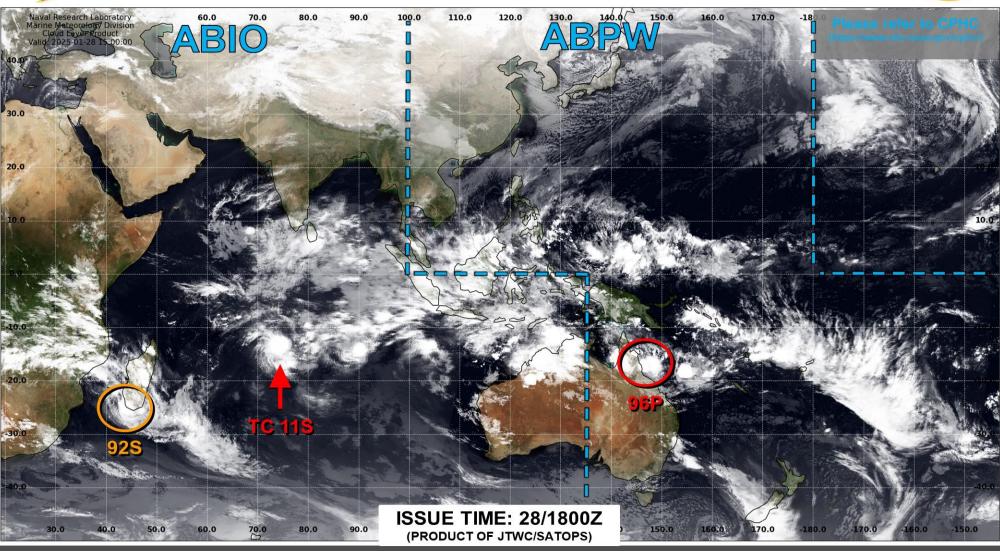
Historical Precipitation Anomalies By MJO Phase:





JOINT TYPHOON WARNING CENTER







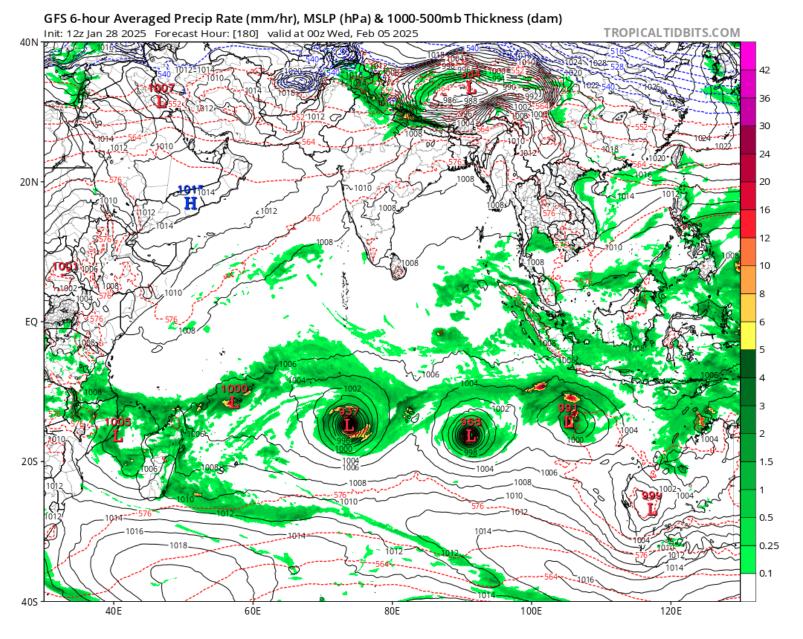






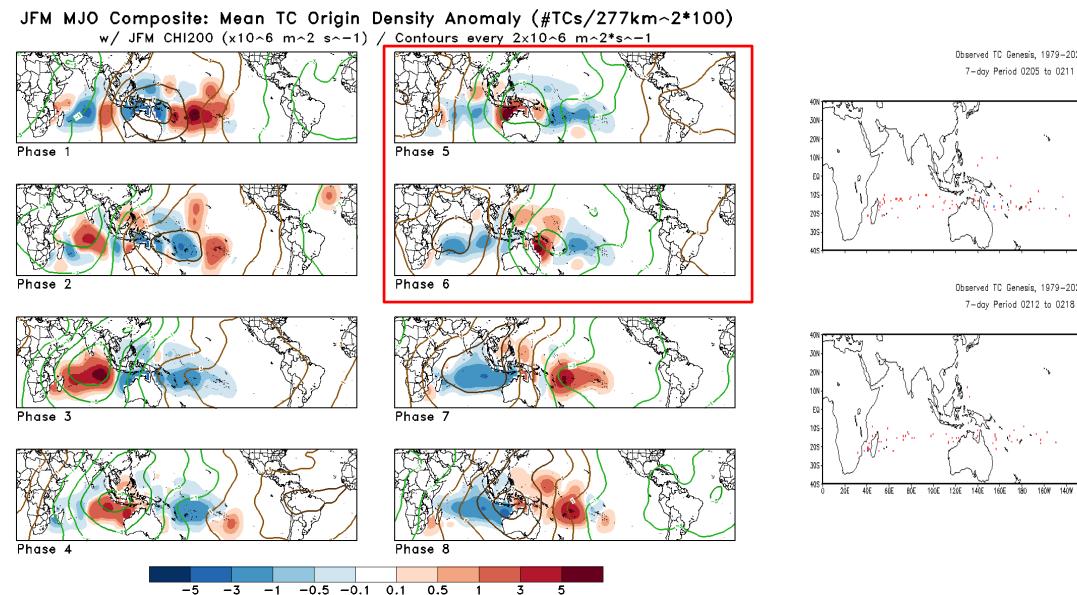
Monitoring for potential transition to TC. Invest label color denotes tropical transition probability

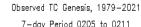


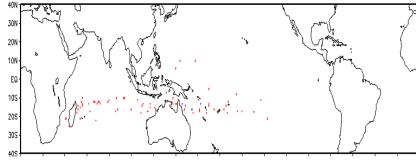


South Indian Ocean: increased chance of multiple TCs next week

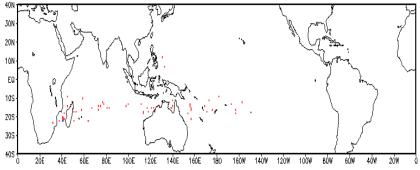
Historical TC Origin Anomalies By MJO Phase & Weeks 2+3 Genesis Climo:







Observed TC Genesis, 1979-2021



Real-Time TC Activity Resources Two-week Forecasts Verifications About Us Archives

Publications

REAL-TIME TC STATISTICS DATA QUALITY METHODOLOGY

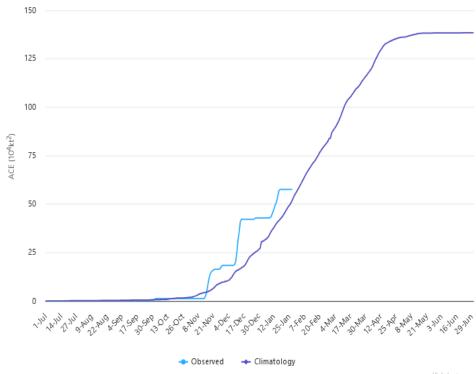
OTHER RESOURCES

Real-Time South Indian Ocean Statistics by Storm for 2024/2025

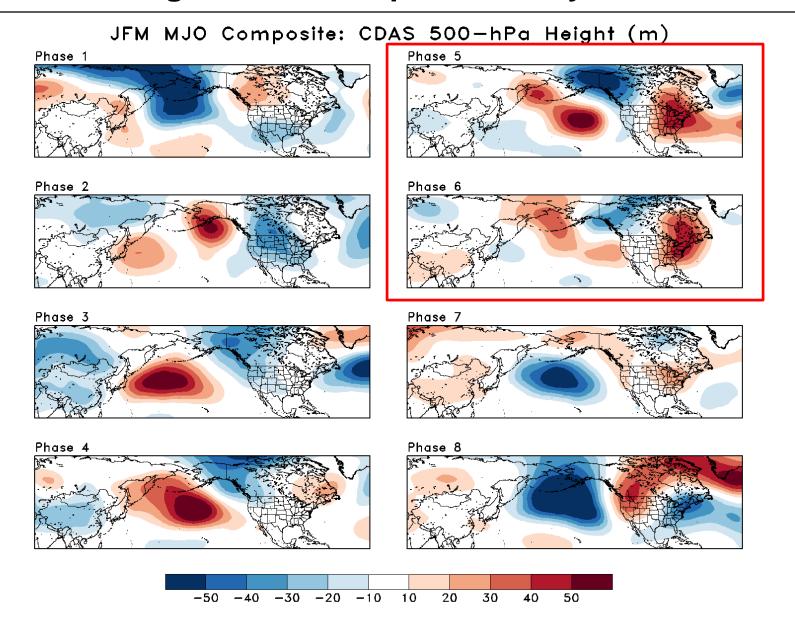
Year	Storm#	Name	Dates TC Active	Max Wind (kts)	MSLP (mb)	Named Storm Days	Hurricane Days	<u>Major Hurricane</u> <u>Days</u>	Accumulated Cyclone Energy
2024	1	<u>ANCHA</u>	10/1-10/3	50	954	1.75	0.00	0.00	1.3
2024	2	<u>BHEKI</u>	11/14-11/22	115	947	8.00	4.50	1.25	15.1
2024	3	ROBYN	11/27-11/29	50	988	2.75	0.00	0.00	2.0
2024	4	<u>CHIDO</u>	12/9-12/15	135	929	6.00	4.50	3.50	23.9
2024	5	<u>FIVE</u>	12/27-12/28	35	1001	1.50	0.00	0.00	0.7
2025	6	DIKELEDI	1/9-1/17	100	950	8.00	4.50	0.50	14.7

All columns that are underlined are sortable.

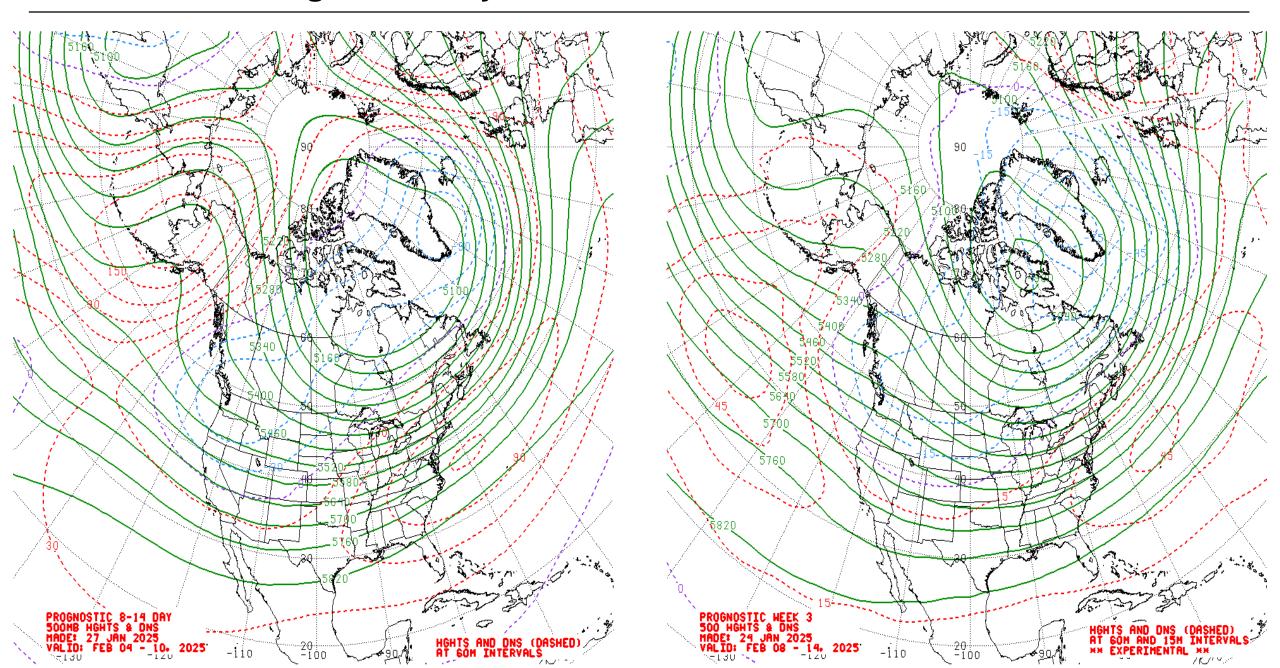
Current Season South Indian Ocean ACE (1991-2020 Climatology)



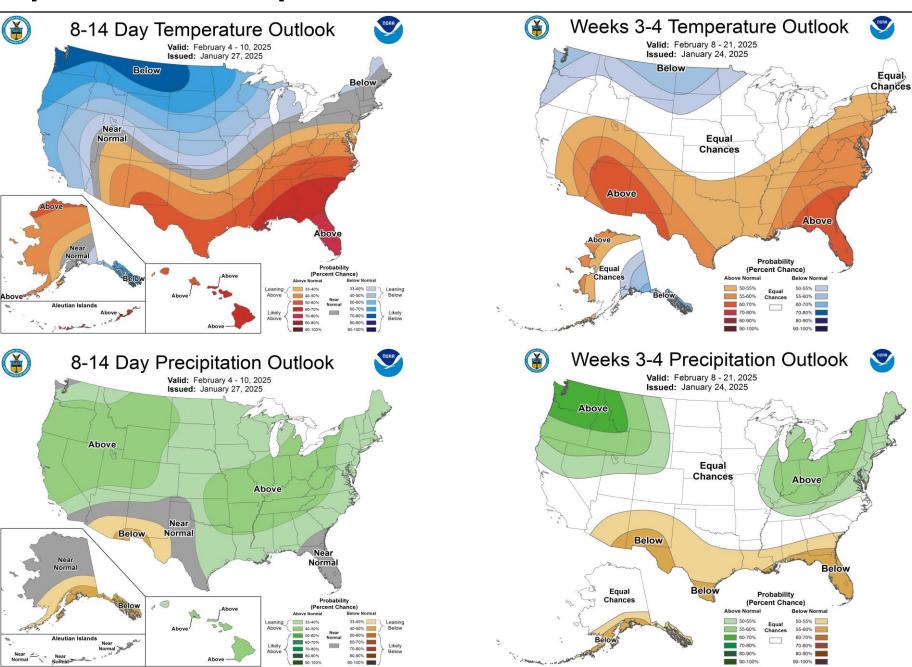
Historical 500-hPa Height & U.S. Temperatures By MJO Phase:



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



Official Temperature & Precipitation Forecasts:

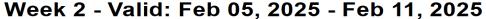


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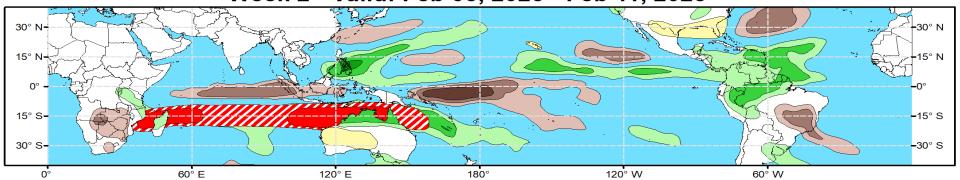


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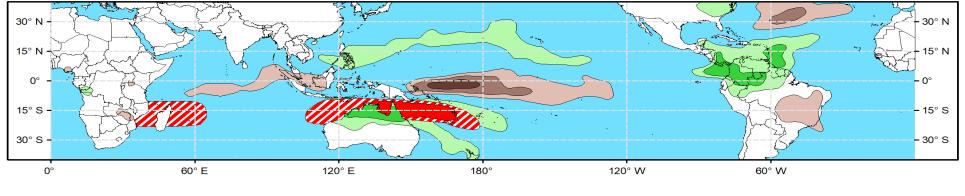
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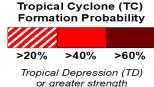






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