

Global Tropics Hazards And Benefits Outlook

8/16/2022

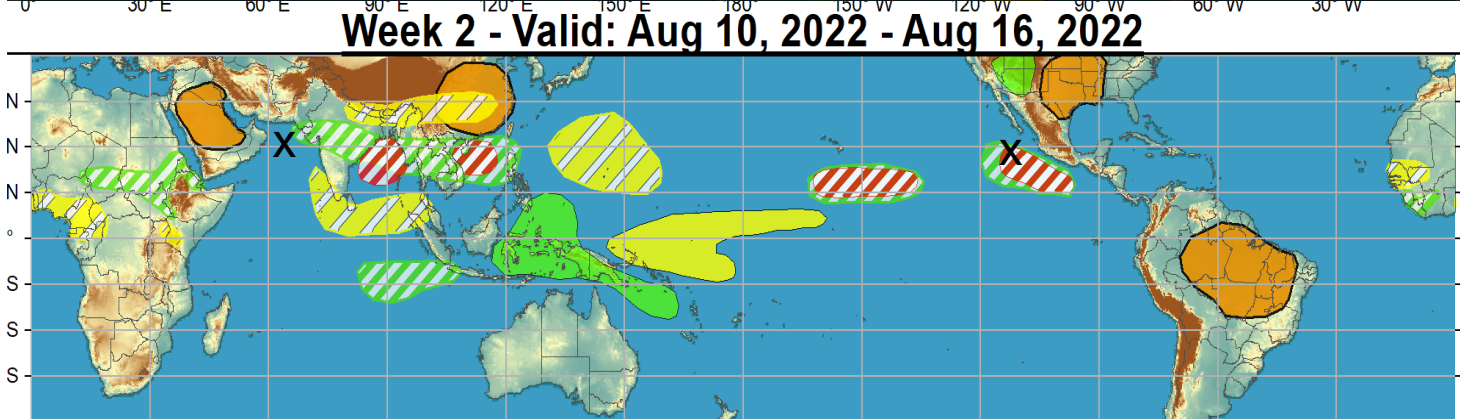
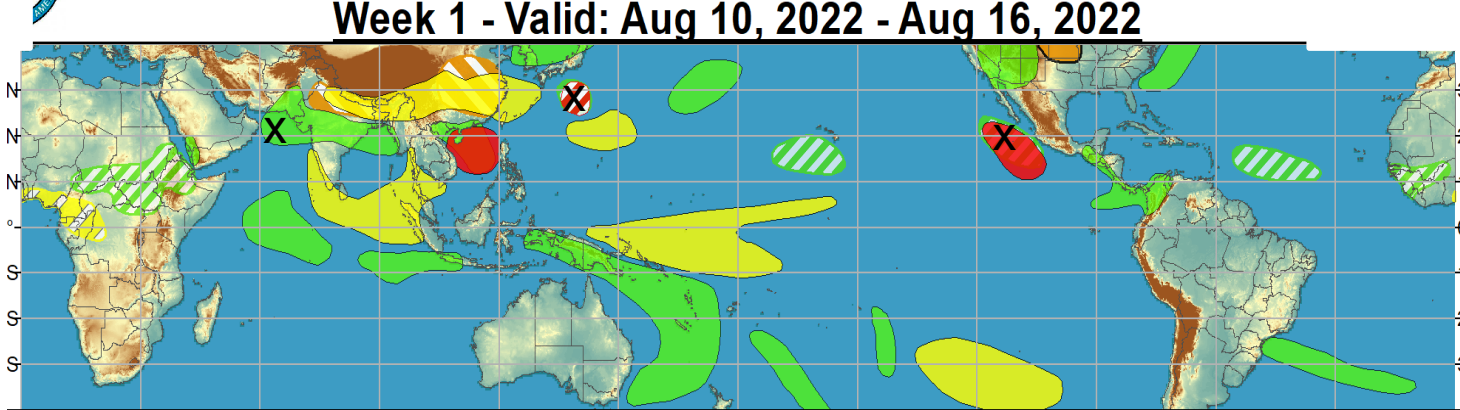
Brad Pugh

Outline

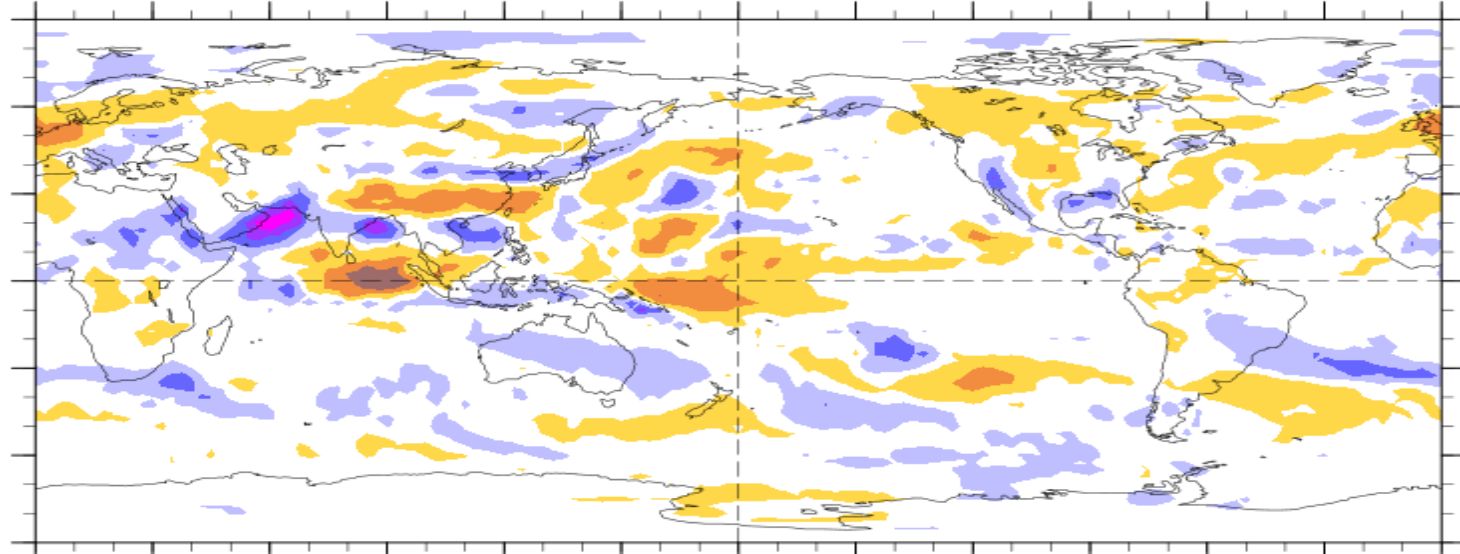
1. Review of Recent Conditions
2. Synopsis of Climate Modes
3. GTH Outlook and Forecast Discussion
4. Connections to U.S. Impacts

Outlook Review

X= Tropical Cyclone



7-Day Average OLR Anomaly 2022/08/08 - 2022/08/14



Cool shading
More clouds/rain

Warm shading
Less clouds/rain

Synopsis of Climate Modes

ENSO: (August 11, 2022)

next update on Thursday, September 8th

- ENSO Alert System Status: [La Niña Advisory](#)
- La Niña is favored to continue into the Northern Hemisphere Fall (86% chance), with probabilities decreasing to 60% during Dec-Jan-Feb 2022-23.

MJO and other subseasonal tropical variability:

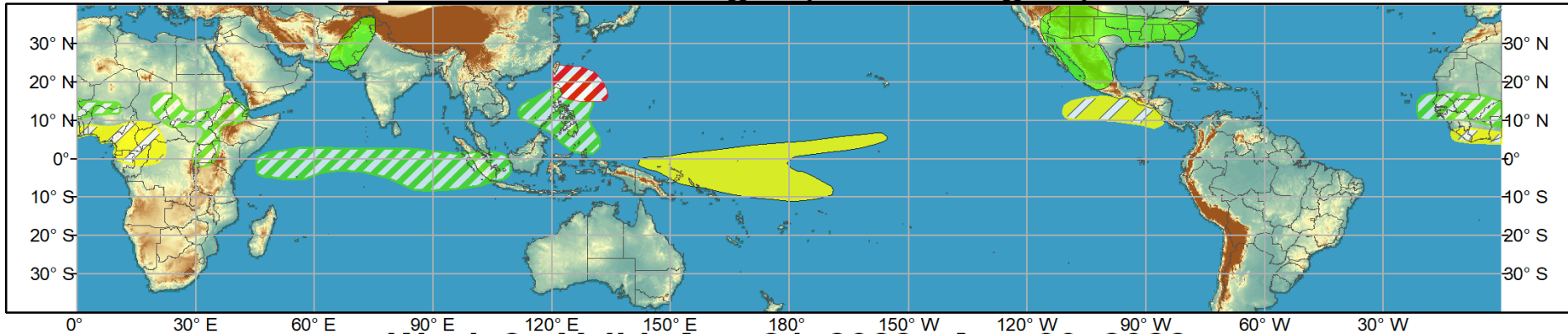
- The MJO remains weak and incoherent.
- Dynamical models agree that the MJO strengthens over Africa during week-1 and then propagates eastward across the Indian Ocean during week-2.
- This evolving pattern would increase chances for tropical cyclone (TC) development across the Main Development Region of the Atlantic during late August.
- Unlike previous weeks, TC formation is less likely across the East Pacific during the next two weeks.



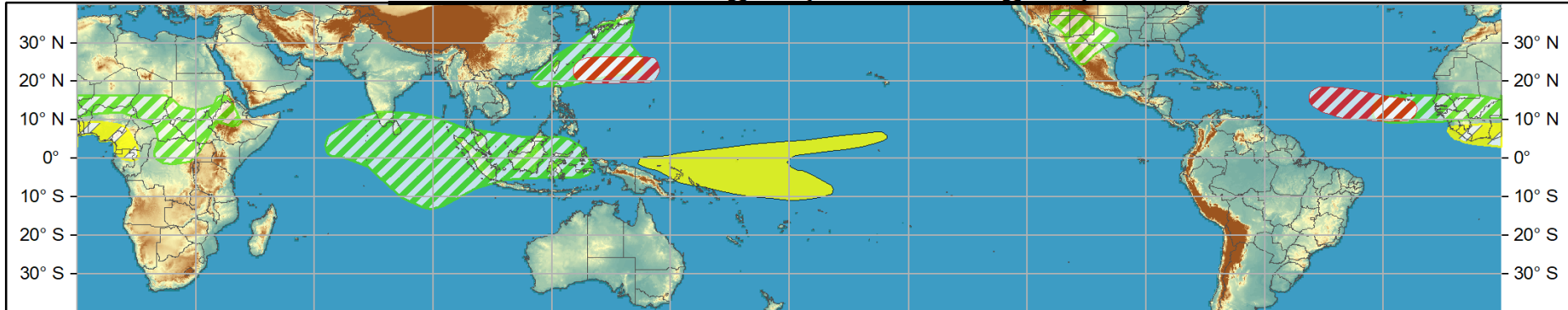
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center



Week 1 - Valid: Aug 17, 2022 - Aug 23, 2022



Week 2 - Valid: Aug 24, 2022 - Aug 30, 2022



Produced: 08/16/2022

Forecaster: Pugh

Confidence

High Moderate

- Tropical Cyclone Formation** Development of a tropical cyclone (tropical depression - TD, or greater strength).
- Above-average rainfall** Weekly total rainfall in the upper third of the historical range.
- Below-average rainfall** Weekly total rainfall in the lower third of the historical range.
- Above-normal temperatures** 7-day mean temperatures in the upper third of the historical range.
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IR Satellite & 200-hpa Velocity Potential Anomalies

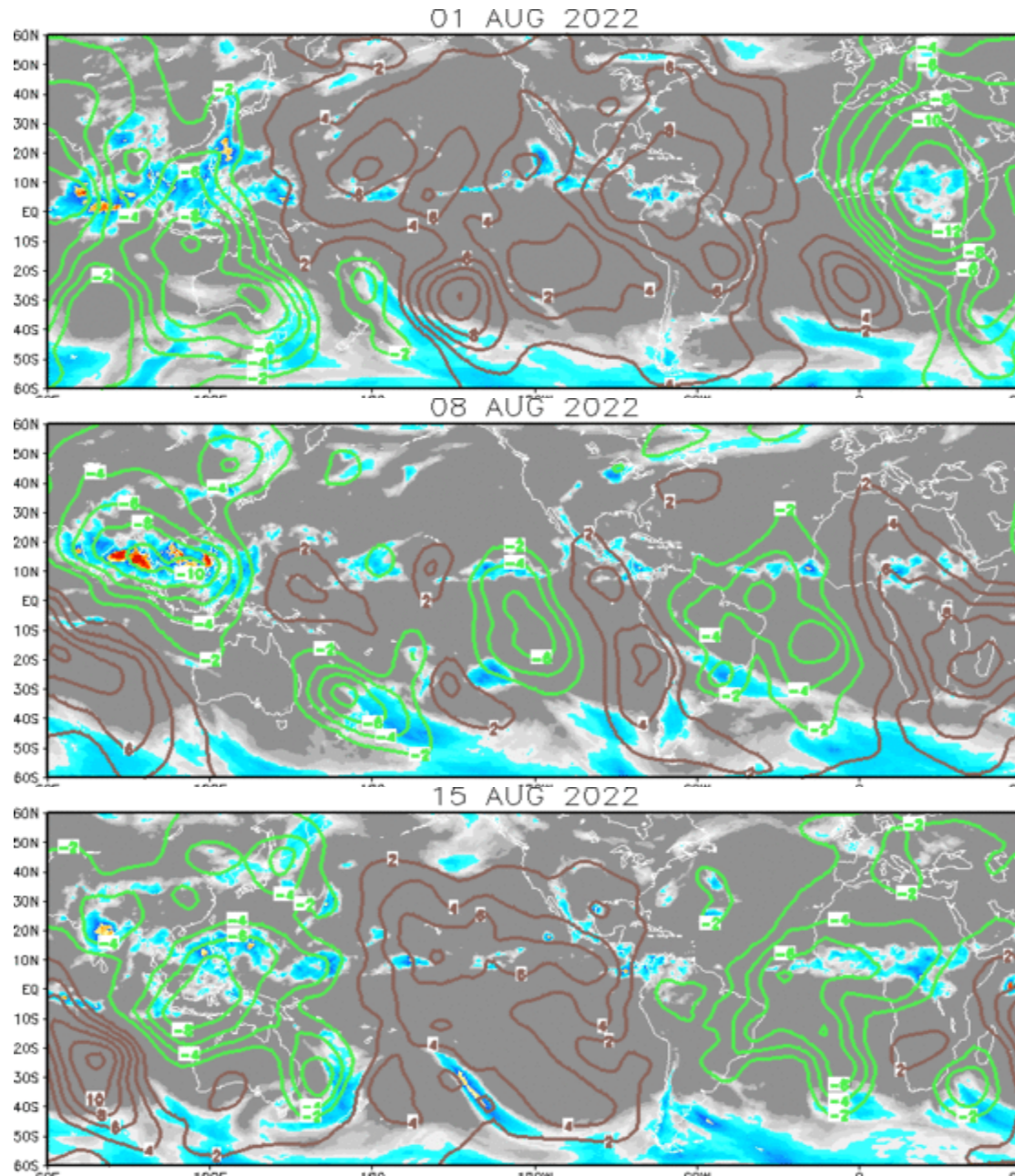
Green: Enhanced Divergence

Brown: Enhanced Convergence

Envelopes of enhanced and suppressed conditions continued to shift eastward by early August.

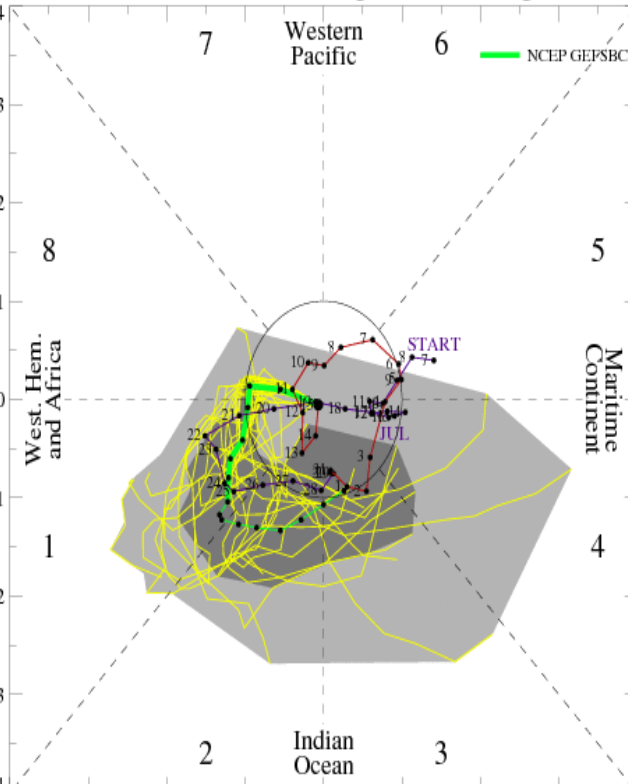
Pattern has become much less defined with increasing anomalous divergence aloft over the Pacific and Atlantic. Enhanced convection remains entrenched over the IO

La Nina continues to dominate over the Pacific and Maritime Continent. A Kelvin Wave has recently led to upper-level divergence across Africa.

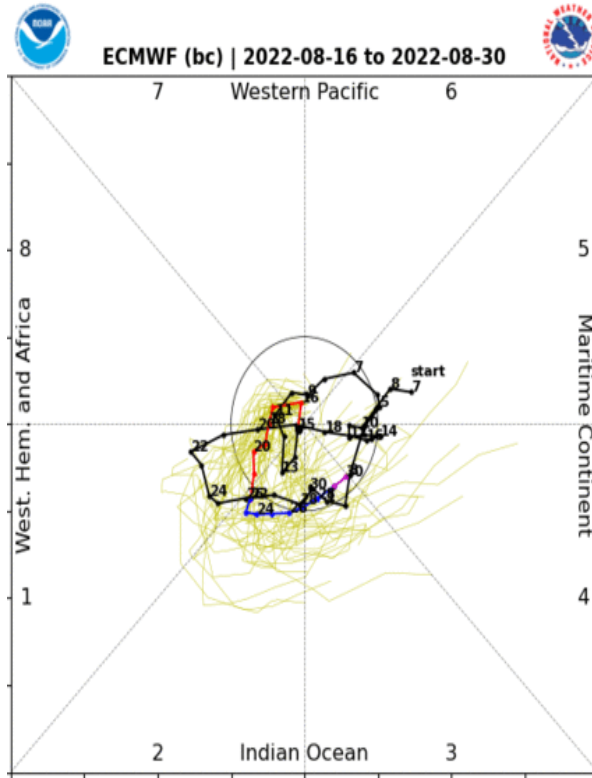


MJO Observation/Forecast

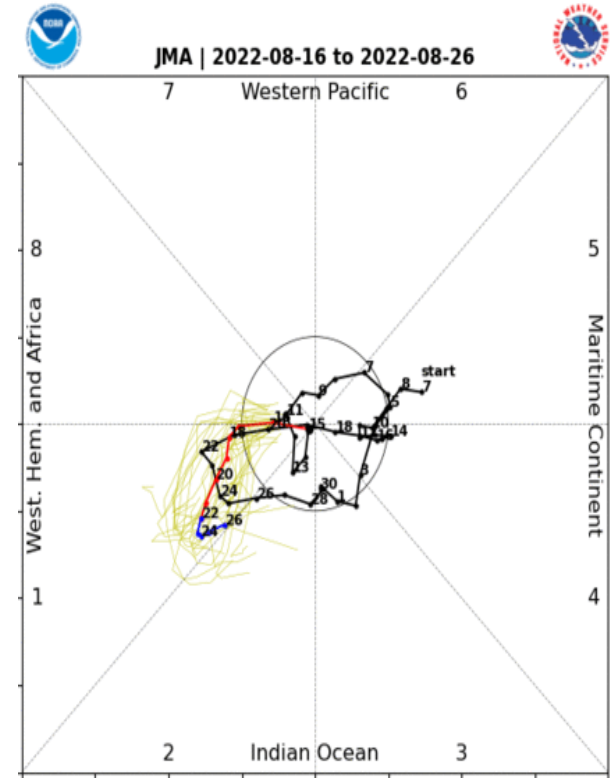
[RMM1, RMM2] forecast for Aug-16-2022 to Aug-30-2022



GEFS



ECMWF



JMA

Good model agreement for an increase in amplitude and eastward propagation across Africa and the Indian Ocean.



Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



← Central Pacific

All Disturbances

35N

25N

15N

5N

5:00 am PDT
Tue Aug 16 2022

140W 130W 120W 110W 100W 90W 80W

www.hurricanes.gov

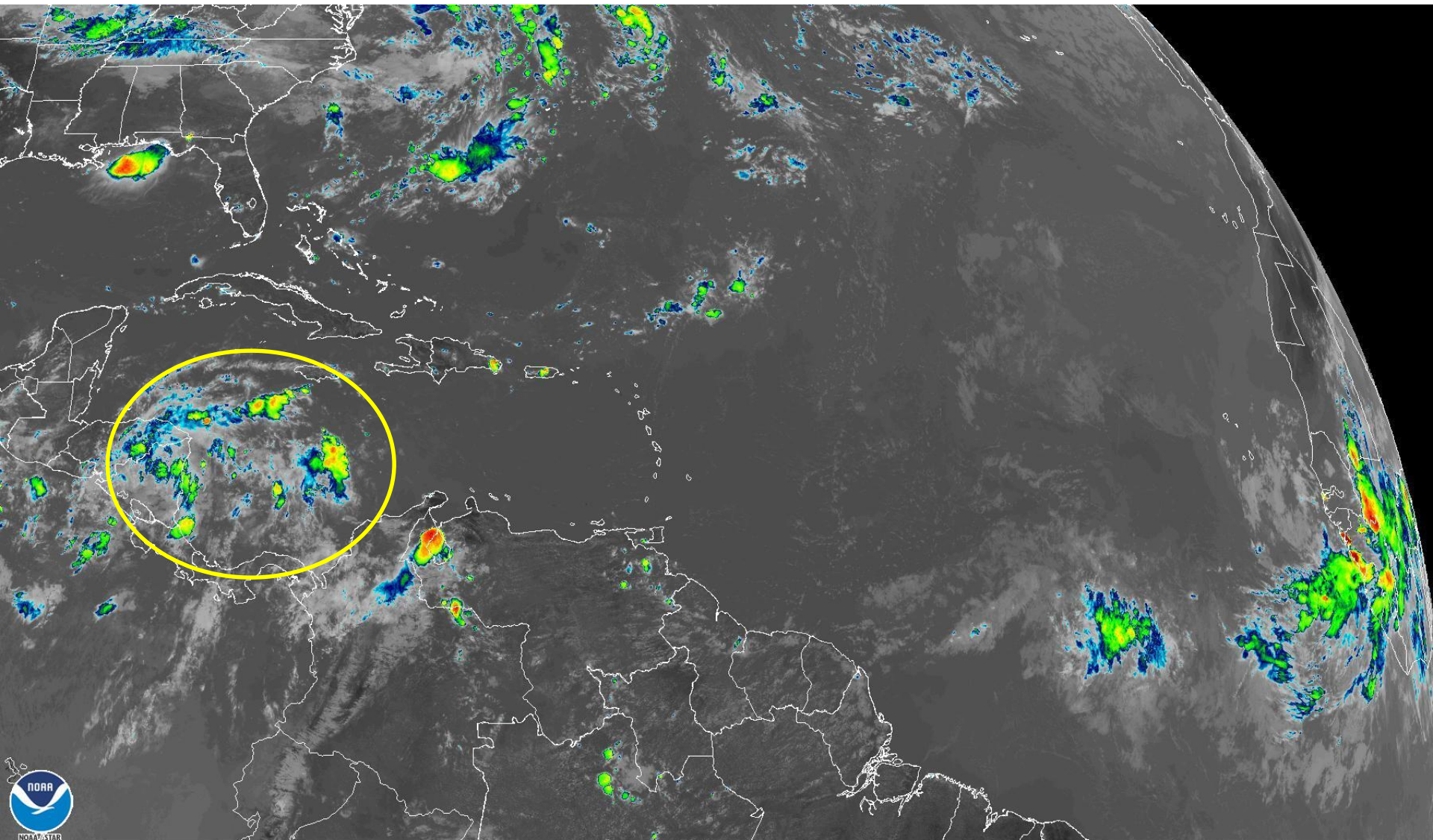
IVETTE



Current Disturbances and Five-Day Cyclone Formation Chance: < 40% 40-60% > 60%

Tropical or Sub-Tropical Cyclone: Depression Storm Hurricane

Post-Tropical Cyclone or Remnants

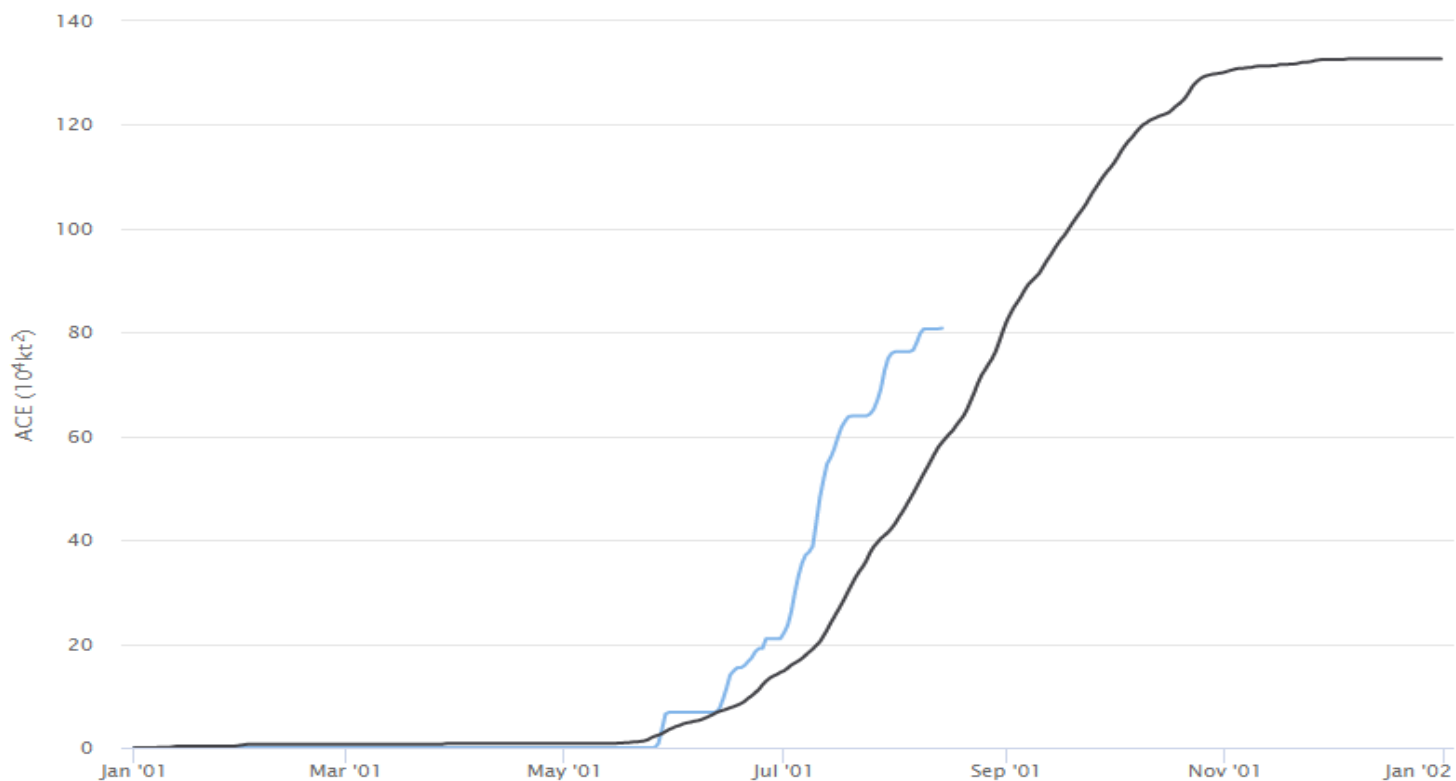


16 Aug 2022 16:40Z - NOAA/NESDIS/STAR GOES-East - Band 13 raw

Year	<u>Storm#</u>	Name	<u>Dates TC Active</u>	<u>Max Wind (kts)</u>	<u>MSLP (mb)</u>	<u>Named Storm Days</u>	<u>Hurricane Days</u>	<u>Major Hurricane Days</u>	<u>Accumulated Cyclone Energy</u>
2022	1	AGATHA	5/28-5/31	95	964	3.25	2.00	0.00	6.8
2022	2	BLAS	6/14-6/20	75	980	6.00	2.75	0.00	8.4
2022	3	CELIA	6/17-6/28	55	993	7.25	0.00	0.00	5.9
2022	4	BONNIE	7/1-7/9	100	964	8.00	4.75	0.50	16.5
2022	5	DARBY	7/9-7/17	120	954	7.50	4.50	1.75	19.0
2022	6	ESTELLE	7/16-7/21	75	984	5.50	2.25	0.00	7.6
2022	7	FRANK	7/26-8/2	80	975	7.25	2.25	0.00	9.4
2022	8	GEORGETTE	7/27-7/31	50	997	4.00	0.00	0.00	3.0
2022	9	HOWARD	8/7-8/10	75	983	3.25	1.25	0.00	4.4
2022	10	IVETTE	8/15-8/15	35	1005	0.25	0.00	0.00	0.1

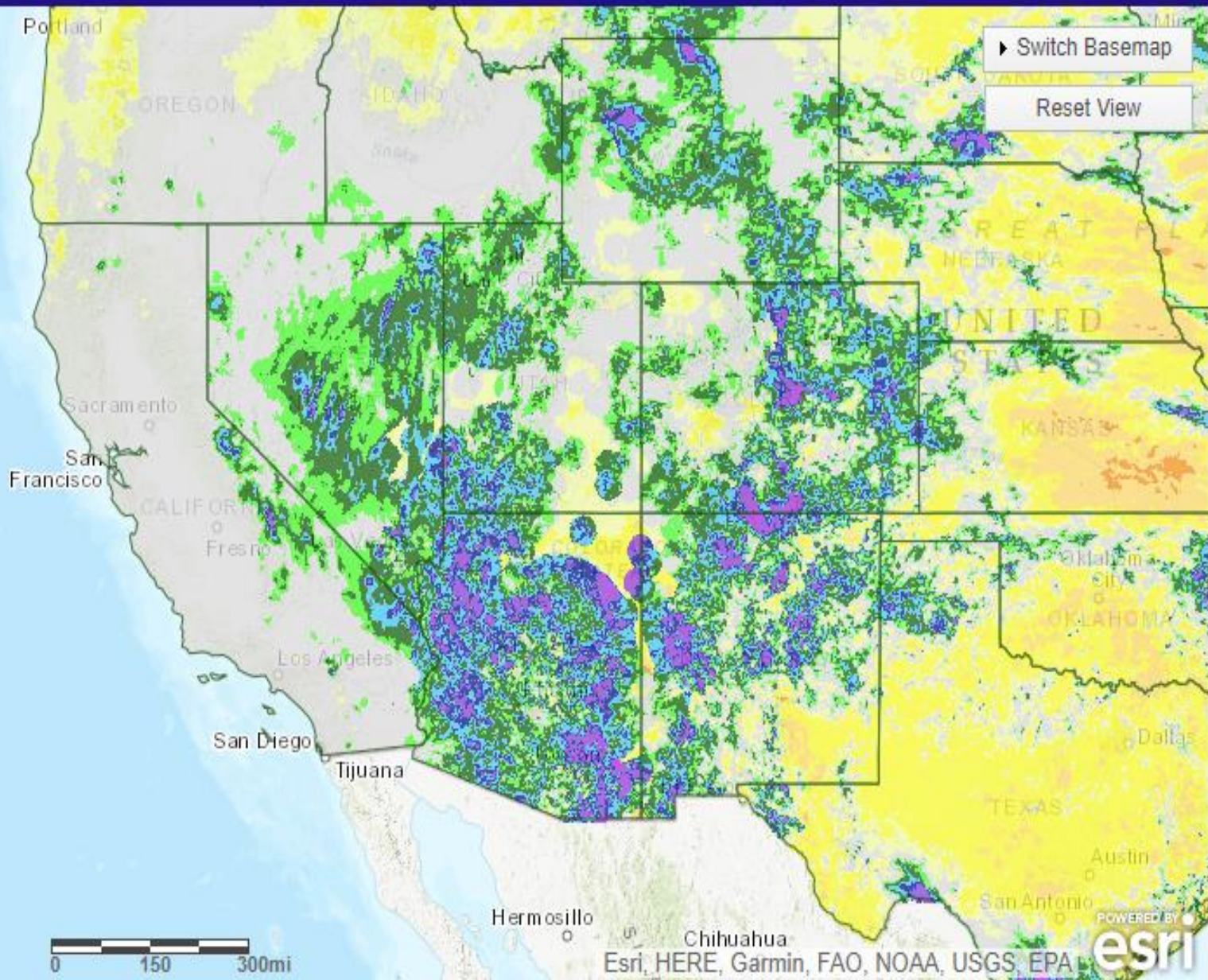
All columns that are underlined are sortable.

Current Season Northeast Pacific Ocean ACE (1991-2020 Climatology)

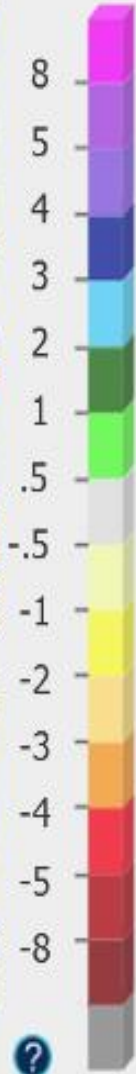


What is UTC time? Map Help

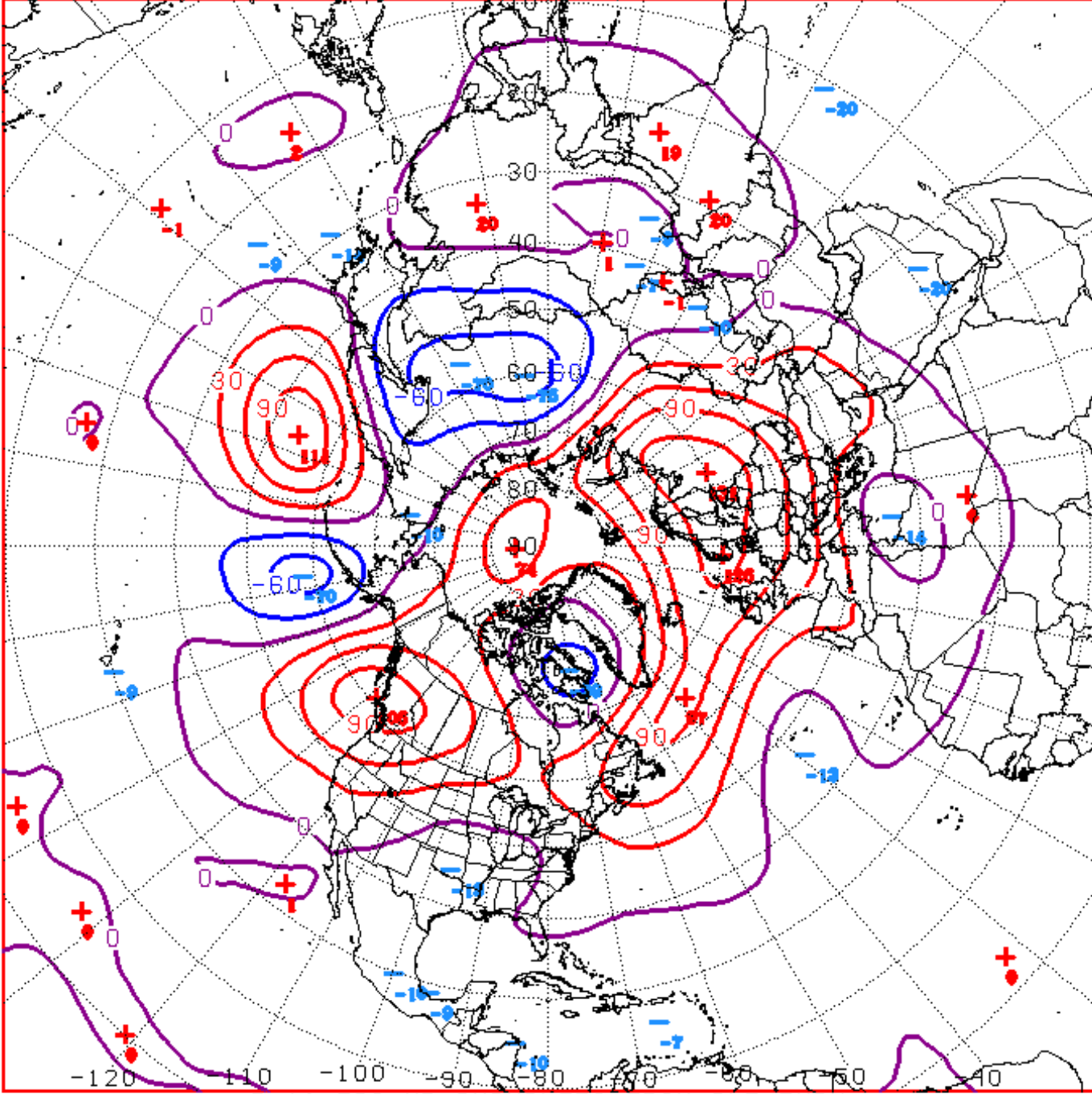
Find address or location



Switch Basemap
Reset View



Connections to U.S. Impacts



D+11 500 MB ANOMALIES FROM ALZ ENSM
 CPC MAP MADE AUG 16 2022 1351 UTC CNTD AUG 27 2022

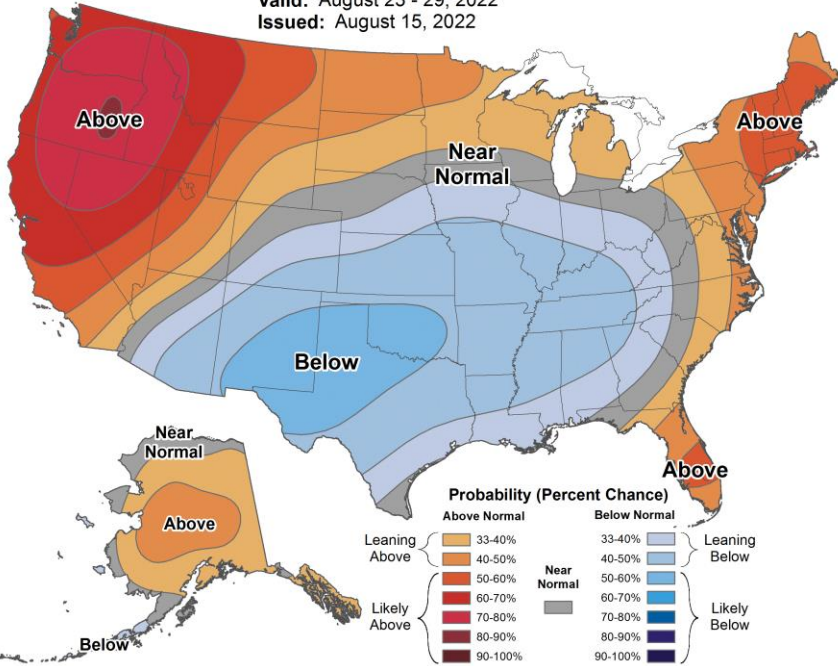
Week 2 – Temperature and Precipitation



8-14 Day Temperature Outlook



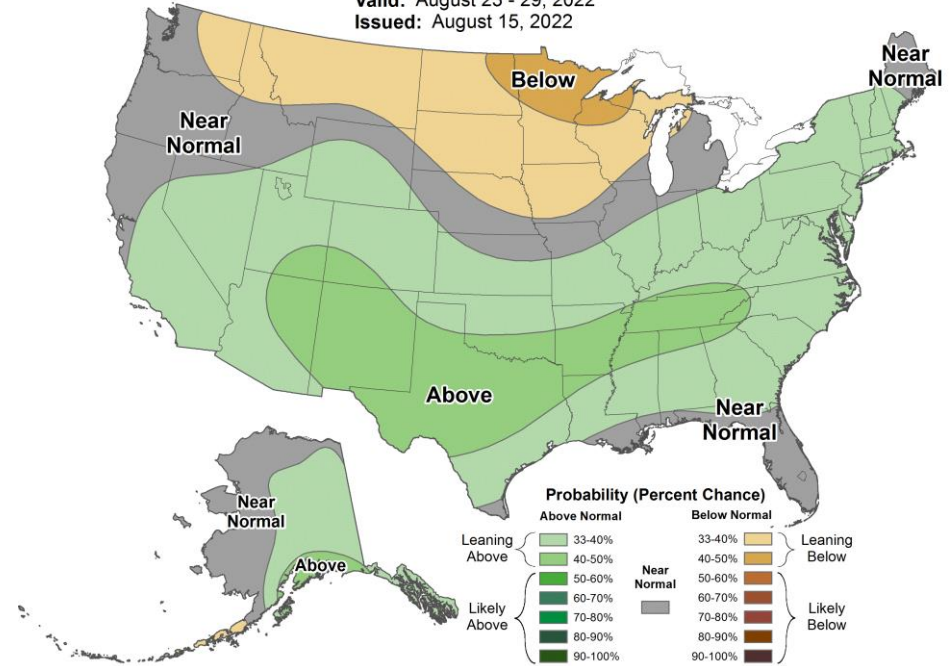
Valid: August 23 - 29, 2022
Issued: August 15, 2022



8-14 Day Precipitation Outlook



Valid: August 23 - 29, 2022
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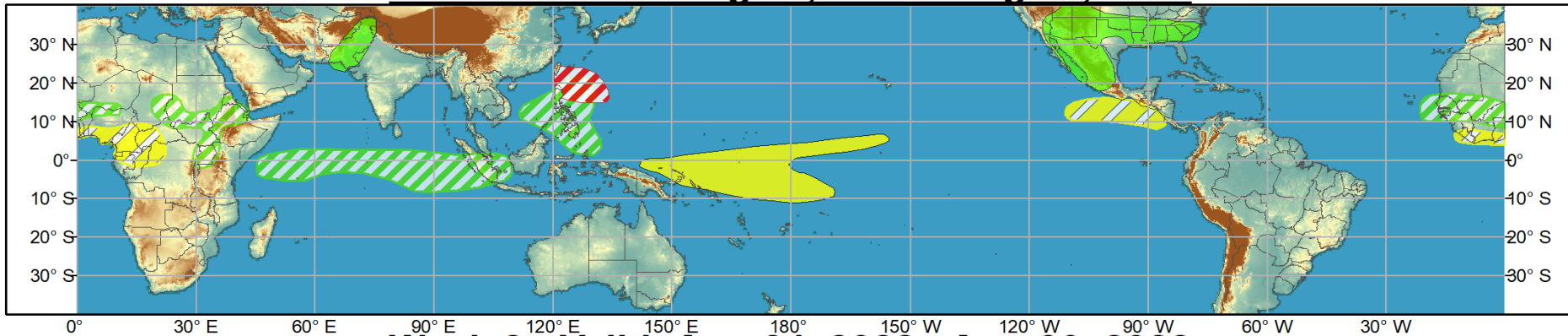




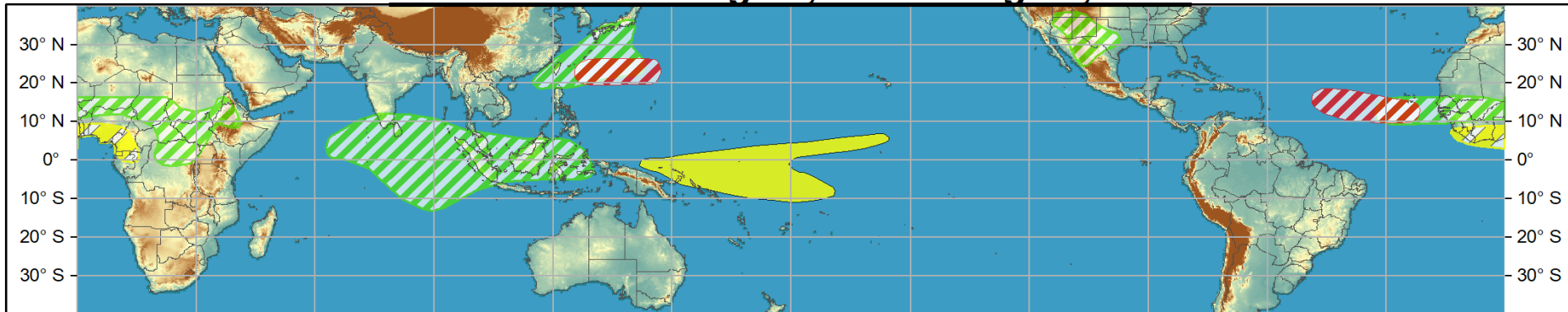
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