Global Tropics Hazards And Benefits Outlook

5/25/2021

Brad Pugh

<u>Outline</u>

- 1. Synopsis of Climate Modes
- 2. GTH Outlook and Forecast Discussion
- 3. Connections to U.S. Impacts

Synopsis of Climate Modes

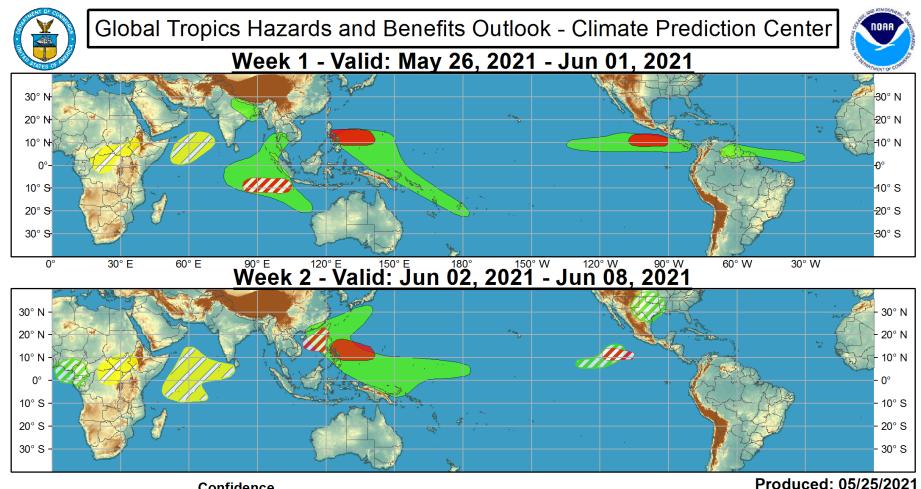
ENSO: (April 8, 2021 Update)

next update on June 10, 2021

- ENSO Alert System Status: Final La Niña Advisory (La Niña has ended)
- La Niña has ended, with ENSO-neutral conditions likely to continue through the Northern Hemisphere summer (67% chance in June-August 2021).

MJO and other subseasonal tropical variability:

- The MJO has remained active since March and recently propagated eastward to the Maritime Continent and West Pacific.
- Dynamical models are in less agreement this week but at least a weaker MJO is expected to shift east over the Pacific during late May into the beginning of June.
- The Pacific (West and East) is likely to be active with multiple tropical cyclones forecast to develop through early June.



Confidence High Moderate

Tropical Cyclone Formation

Above-average rainfall

Below-average rainfall

Above-normal temperatures

Below-normal temperatures

Weekly total rainfall in the upper third of the historical range.

Weekly total rainfall in the lower third of the historical range.

7-day mean temperatures in the upper third of the historical range.

7-day mean temperatures in the lower third of the historical range.

Development of a tropical cyclone (tropical depression - TD, or greater strength).

Product is updated once per week, except from 6/1 - 11/30 for the region from 120E to 0, 0 to 40N. The product targets broad scale conditions integrated over a 7-day period for US interests only. Consult your local responsible forecast agency.



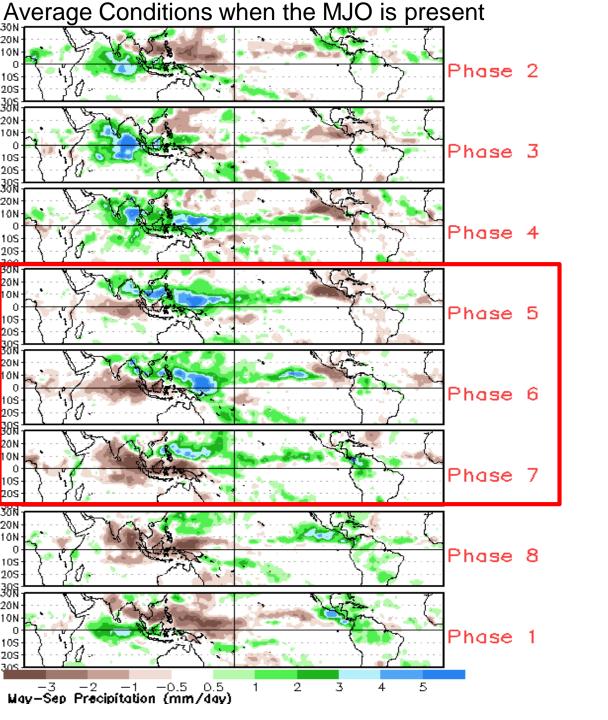




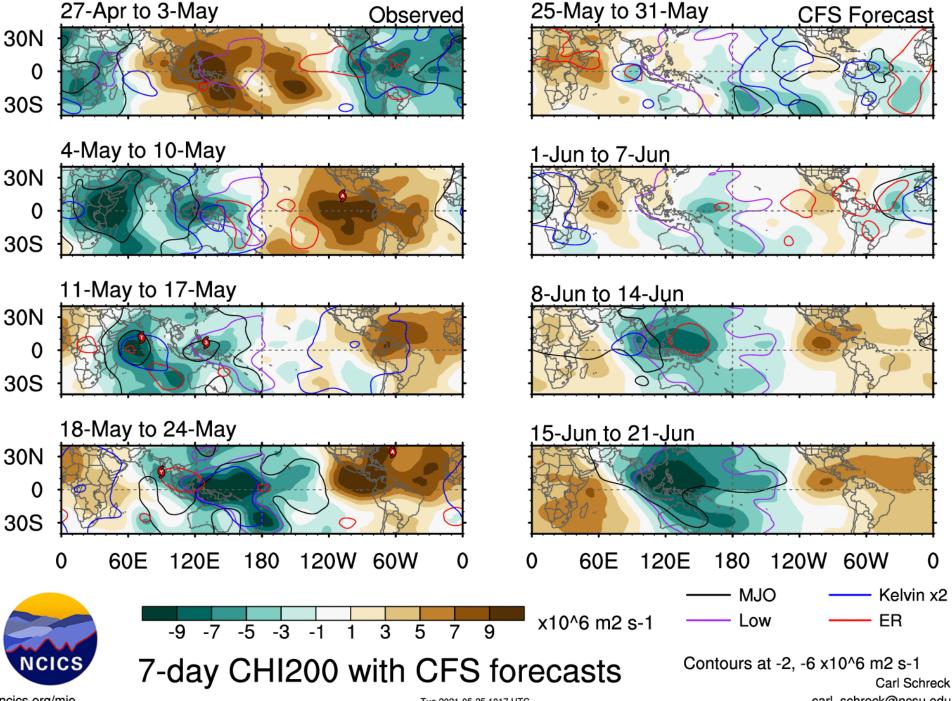




Forecaster: Pugh



CAVEAT: These panels are representative of robust MJO events.



ncics.org/mjo

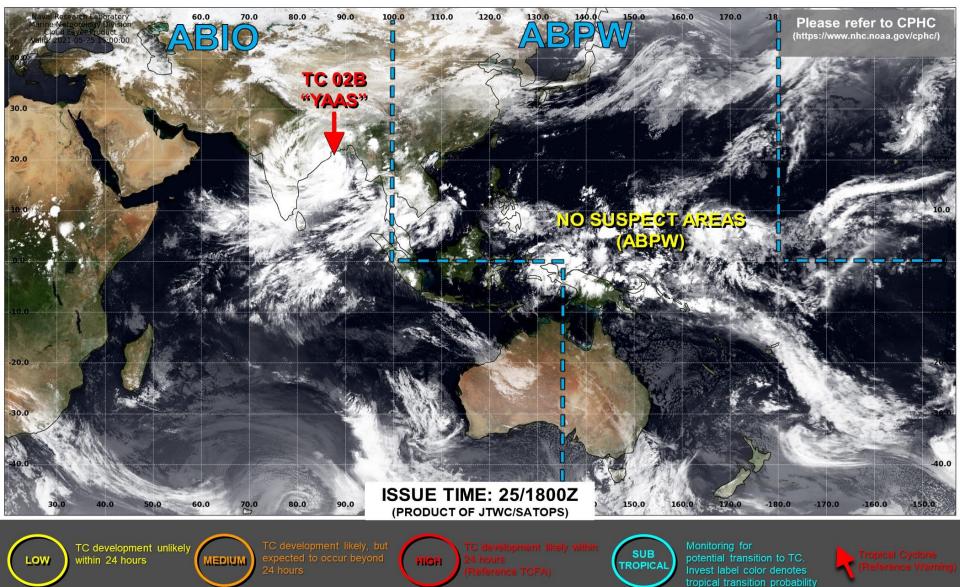
Tue 2021-05-25 1017 UTC

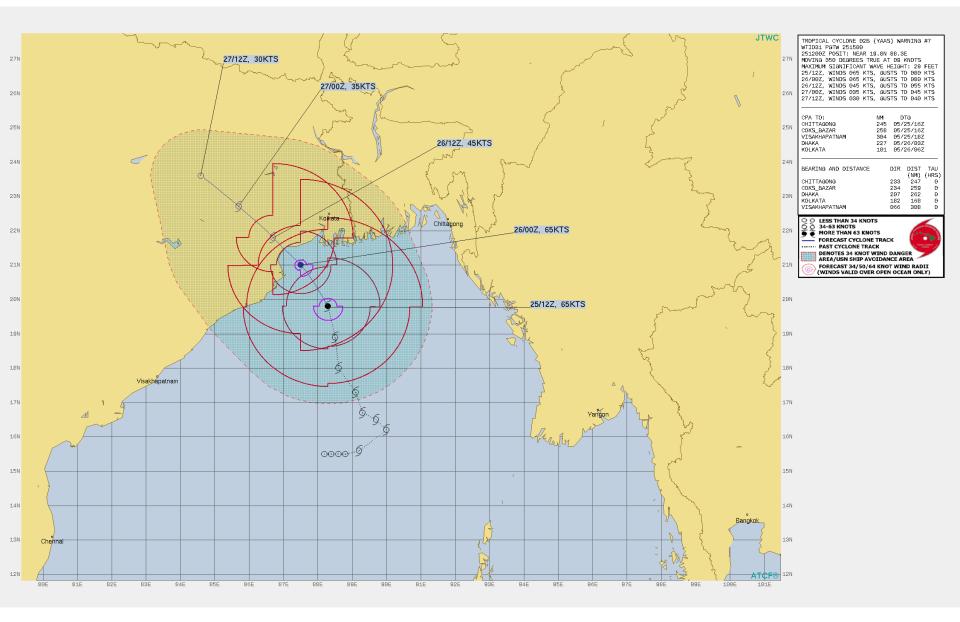
carl_schreck@ncsu.edu



JOINT TYPHOON WARNING CENTER



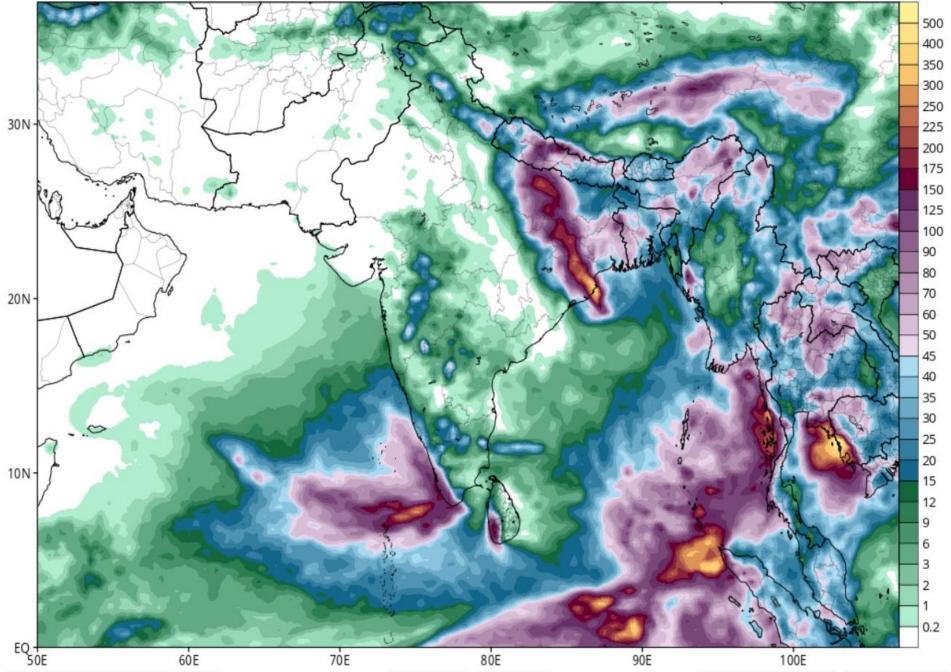


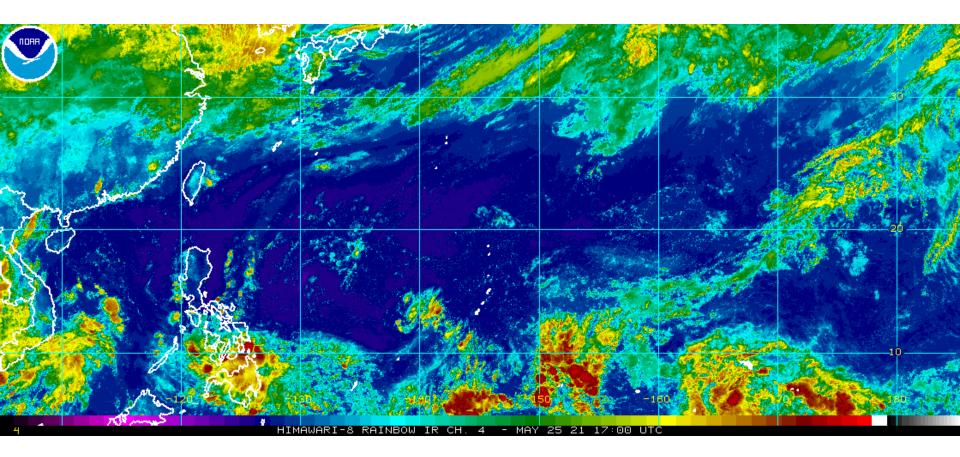


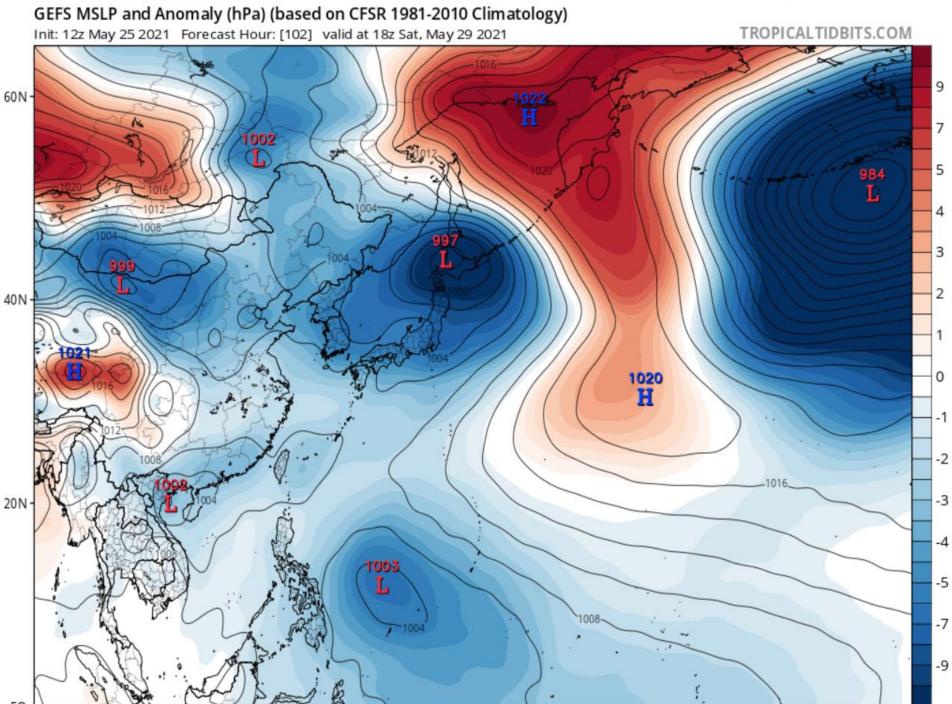
GFS Total Accumulated Precipitation (mm) from 12z25May2021 to 18z30May2021

Init: 12z May 25 2021 Forecast Hour: [126] valid at 18z Sun, May 30 2021

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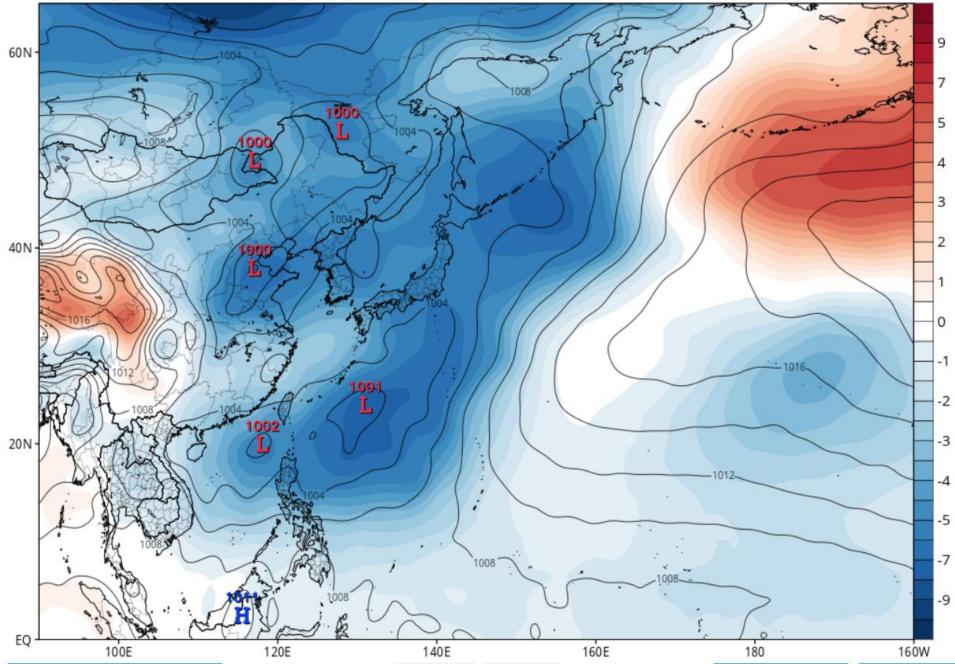


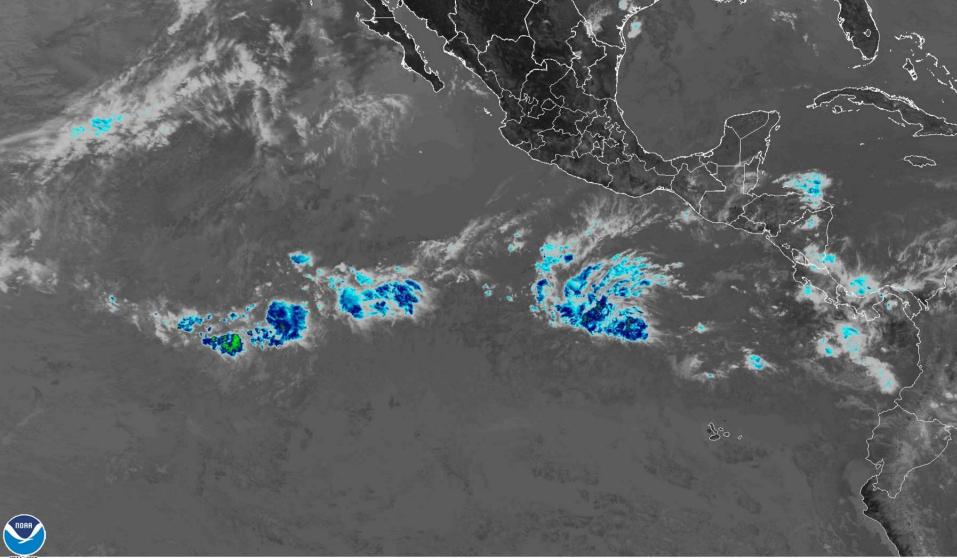
EQ ·



Init: 12z May 25 2021 Forecast Hour: [270] valid at 18z Sat, Jun 05 2021

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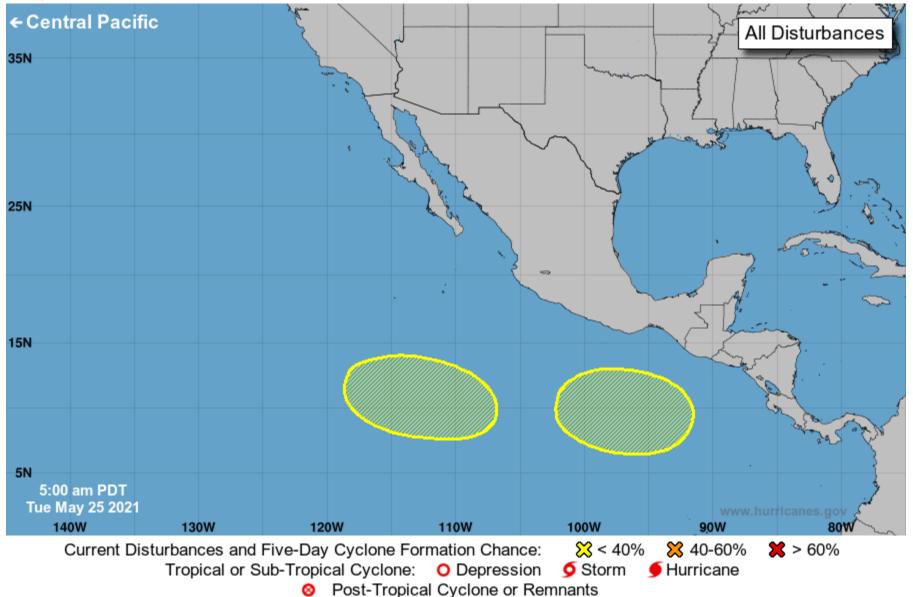
25 May 2021 17:40Z NOAA/NESDIS/STAR GOES-East Band 07



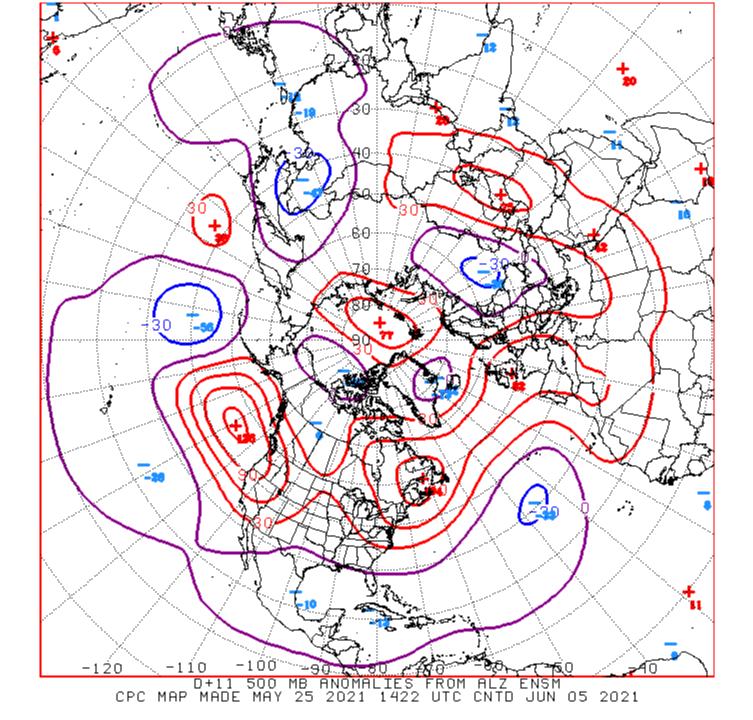
Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida

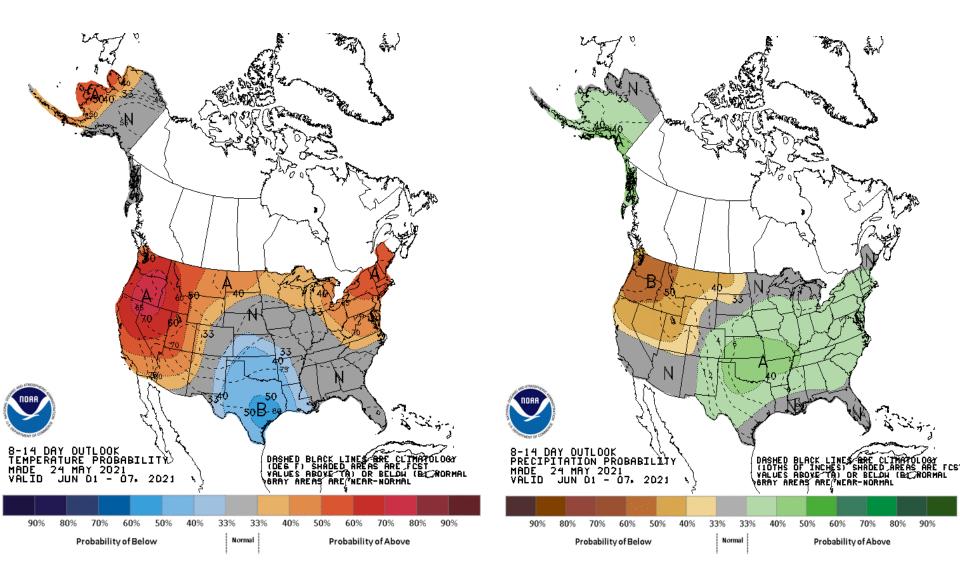


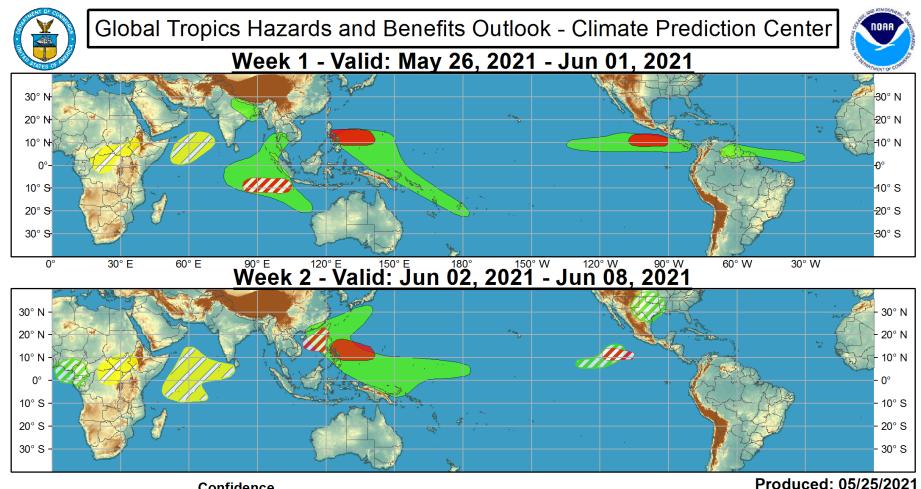


Connections to U.S. Impacts



Week 2 – Temperature and Precipitation





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