Global Tropics Hazards And Benefits Outlook

5/25/2021

Brad Pugh

Outline

1. Synopsis of Climate Modes
2. GTH Outlook and Forecast Discussion
3. Connections to U.S. Impacts
**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.
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center

Week 1 - Valid: May 26, 2021 - Jun 01, 2021

Week 2 - Valid: Jun 02, 2021 - Jun 08, 2021

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.

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

Produced: 05/25/2021
Forecaster: Pugh

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.
Average Conditions when the MJO is present

CAVEAT: These panels are representative of robust MJO events.
27-Apr to 3-May Observed
25-May to 31-May CFS Forecast

4-May to 10-May
1-Jun to 7-Jun

11-May to 17-May
8-Jun to 14-Jun

18-May to 24-May
15-Jun to 21-Jun

7-day CHI200 with CFS forecasts

ncics.org/mjoTue 2021-05-25 1017 UTC

x10^6 m2 s-1

Contours at -2, -6 x10^6 m2 s-1

MJO Kelvin x2 Low ER
TC 02B “YAAS”

IO ISSUANCED AGENCY
pants-Typhoon Warning Center (JTWC/CPHC)

ISSUE TIME: 25/1800Z (PRODUCT OF JTWC/CPHC)

LOW
TC development unlikely within 24 hours

MEDIUM
TC development likely, but expected to occur beyond 24 hours

HIGH
TC development likely within 24 hours (Reference TCFA)

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

Tropical Cyclone (Reference Warning)
Connections to U.S. Impacts
Week 2 – Temperature and Precipitation
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