Global Tropics Hazards And Benefits Outlook
04/24/2018

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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

Cool shading
More clouds/rain

Warm shading
Less clouds/rain
Synopsis of Climate Modes

**ENSO:**
- La Niña is transitioning to ENSO-neutral, with ENSO-neutral likely (greater than 50% chance) to continue through the Northern Hemisphere summer 2018. (Updated April 12, 2018)

**MJO and other subseasonal tropical variability:**
- The MJO has weakened; the remnant enhanced phase is over the western Maritime Continent.
- Equatorial Rossby wave activity is prominent over the Indian Ocean as well as the West Pacific.
- All of the dynamical models forecast a weak MJO signal to propagate to the Western Hemisphere during Week-2. This is due in part to extratropical variability influencing the tropics and causing a more rapid eastward propagation of the upper-level wind field.

**Extratropics:**
- The weakening MJO is unlikely to have a strong impact on the mid-latitudes.
- However, the lagged MJO response is consistent with the current GEFS forecasts over eastern North America during the 6-14 day period.
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center

Week 1 - Valid: Apr 25, 2018 - May 01, 2018

Week 2 - Valid: May 02, 2018 - May 08, 2018

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: 04/24/2018
Forecaster: Baxter

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.
Wave-1 pattern with MJO enhanced phase over Western Hemisphere.

MJO shifted east over Africa to the western Indian Ocean.

Pattern has broken down substantially, enhanced phase centered over western Maritime Continent.
Wheeler-Hendon RMM diagrams from the GEFS, ECMWF, and JMA, show a continued weak MJO signal.
Average Conditions when the MJO is present

CAVEAT: These panels are representative of robust MJO events.
MJO forecast to weaken during Week-1.

Equatorial Rossby waves forecast to dominate over Indian Ocean (possible TC influence) and West Pacific.
Connections to U.S. Impacts