Global Tropics Hazards And Benefits Outlook
7/3/2018

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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:**
- **El Nino Watch**… ENSO-neutral is favored through NH summer 2018, with the chance for El Nino increasing to 50% during Fall, and ~65% during winter 2018-19.

**MJO and other subseasonal tropical variability:**
- The MJO remained weak and incoherent, with enhanced phase over Africa & the Indian Ocean, and suppressed phase over Pacific.
- Dynamical models indicate a continued weak MJO signal in Week-1, then a weak to moderate signal in Week-2. Signal expected to emerge in vicinity of Maritime Continent. Several Kelvin waves in progress.

**Extratropics:**
- The extended range temperature and precipitation forecasts for the U.S. are not likely to be impacted by MJO activity (because of such a weak, incoherent MJO signal).
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center

Week 1 - Valid: Jul 04, 2018 - Jul 10, 2018

Week 2 - Valid: Jul 11, 2018 - Jul 17, 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: 07/03/2018
Forecaster: Artusa

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-2 pattern. Upper-level DIV over Africa & Indian Ocean, & E-Pac.

Wave-2 pattern. Strongest Upper-level DIV shifts to eastern Indian Ocean. Upper-level DIV remains over East Pac.

Upper-level CON over East Pac. DIV over western Africa, and from East Asia south to Australia.
Wheeler-Hendon based analyses of model forecasts indicate large spread among the individual ensemble members; ensemble mean predicts weak signal in Week-1, and an amplifying signal in Week-2 which emerges in the general vicinity of phase 4 (western Maritime Continent).
MJO, Equatorial Rossby waves, Kelvin waves, and westward moving TCs having an influence

Low-frequency pattern less of an influence
Connections to U.S. Impacts
Week 2 – Temperature and Precipitation

July 2nd

Monsoon; E-Pac TCs
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