Global Tropics Hazards And Benefits Outlook
06/04/2019

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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: (May 2019 Update)**
- ENSO Alert System Status: **El Niño Advisory**
- El Niño is favored through Northern Hemisphere summer 2019, with a ~55-60% chance of persisting through winter 2019-20.

**MJO and other subseasonal tropical variability:**
- The MJO has remained active, with the enhanced phase now centered over the Indian Ocean.
- There is fair agreement in the models, as the MJO is forecast to propagate eastward across the Indian Ocean and over the Maritime Continent during the next two weeks.

**Impacts:**
- The tropics are expected to be relatively quiet in terms of TC activity. The MJO would favor some activity over the Indian Ocean during week-1 and possibly week-2.
- Conditions over the East Pacific and Atlantic are expected to become less favorable for TC activity over the one to two weeks with the suppressed phase of MJO.
- The continuation of anomalous lower-level easterlies across the Indian sub-continent is expected to prolong the delay of the Indian monsoon, accompanied with abnormally high temperatures through week-2.
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center

**Week 1 - Valid: Jun 05, 2019 - Jun 11, 2019**

**Week 2 - Valid: Jun 12, 2019 - Jun 18, 2019**

**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: 06/04/2019

Forecaster: Novella

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 enhanced convection over the Western Hemisphere.

Little eastward propagation is evident due to interference with westward moving variability.

Eastward propagation of the high-amplitude Wave-1 pattern resumed.
The GEFS/ECMWF solutions are in fair agreement. The JMA is an outlier due to emphasis on westward moving feature during the early portion of the week-1 period.
Average Conditions when the MJO is present

CAVEAT: These panels are representative of robust MJO events.

Week-1: Phase 3 / 4
Week-2: Phase 5
MJO, Rossby waves and Kelvin waves having an influence.

Low-frequency pattern also prominent.

GEFS emphasis on Rossby wave over Indian Ocean disrupts RMM signal.
No new tropical cyclones are expected during the next five days.
Connections to U.S. Impacts
Week 2 – Temperature and Precipitation
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