Global Tropics Hazards And Benefits Outlook

3/14/2017

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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 – Tropical Cyclones

Tropical Storm Eleven – formed 8 March
Max sustained winds: 40kt
Synopsis of Climate Modes

**ENSO:**
- ENSO-neutral conditions are favored to continue through at least the Northern Hemisphere spring 2017, with increasing chances for El Niño development into the fall.

**MJO and other subseasonal tropical variability:**
- The MJO weakened during the past week
- Dynamical model MJO index forecasts generally depict a weak signal over the next two weeks.
- Rossby waves, the remnant low frequency state, and mid-latitudes influencing pattern.

**Extratropics:**
- Due to the lack of a robust intraseasonal signal in the tropics, the effects of tropical forcing on the extratropics is uncertain.
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center

Week 1 - Valid: Mar 15, 2017 - Mar 21, 2017

Week 2 - Valid: Mar 22, 2017 - Mar 28, 2017

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: 03/14/2017
Forecaster: Allgood

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 with enhanced phase emerging over the Indian Ocean.

Less coherent Wave-1 over Maritime Continent. Westward moving features competing.

Semi-coherent structure remains, but zonal width of enhanced phase is very limited wrt canonical MJO signal. Note low frequency enhanced signal over western South America.
Wheeler-Hendon based analyses of model forecasts indicate a weak MJO signal during the next two weeks. GEFS is a bit of an outlier showing a weak signal (scenario is unlikely).
Weakened MJO apparent in OLR field.

Rossby Wave interference, and also remnant low frequency state
Connections to U.S. Impacts
Week 2 – Temperature and Precipitation
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Week 1 - Valid: Mar 15, 2017 - Mar 21, 2017

Week 2 - Valid: Mar 22, 2017 - Mar 28, 2017

Confidence

Tropical Cyclone Formation
- High: Development of a tropical cyclone (tropical depression - TD, or greater strength).
- Moderate:

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.

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