Global Tropics Hazards And Benefits Outlook

5/30/2017

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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

Cool shading
More clouds/rain

Warm shading
Less clouds/rain
Synopsis of Climate Modes

**ENSO:**
- ENSO-neutral and El Niño are nearly equally favored during the Northern Hemisphere summer and fall 2017

**MJO and other subseasonal tropical variability:**
- The MJO was weak, and propagating eastward toward the western Maritime Continent. Over the past one to two weeks, atmospheric Kelvin wave activity has been prominent along with some westward-moving variability.

- Dynamical models indicate an eastward-moving MJO signal over the next week, with uncertainty increasing by Week-2. The evolution of the subseasonal pattern of tropical convection is expected to be complex.

**Extratropics:**
- The extended range temperature forecasts for the U.S. are broadly consistent with the lagged MJO footprint, but this signature is fairly weak this time of year and complicated by the complex evolution of the pattern of tropical convection.
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center

Week 1 - Valid: May 31, 2017 - Jun 06, 2017

Week 2 - Valid: Jun 07, 2017 - Jun 13, 2017

Preliminary

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: 05/30/2017
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 enhanced convection centered over the Indian Ocean.

Wave-1 broke down as the pattern remained largely stationary.

Wave-2 pattern becoming less clear, with suppressed signal intensifying over the Pacific basin.
RMM index forecasts depict eastward propagation early, with the GEFS showing a similar evolution to that which was recently observed.
MJO, Rossby wave and Kelvin waves having an influence

Low-frequency pattern less of an influence
June Tropical Storm Formation by MJO phase

- Phase 1 (104 days): 14 storms
- Phase 2 (82 days): 11 storms
- Phase 3 (57 days): 10 storms
- Phase 4 (88 days): 6 storms
- Phase 5 (77 days): 6 storms
- Phase 6 (82 days): 17 storms
- Phase 7 (45 days): 16 storms
- Phase 8 (70 days): 15 storms
- Null (423 days): 71 storms
No new tropical cyclones are expected during the next five days.
Connections to U.S. Impacts
Week 2 – Temperature and Precipitation
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center

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Week 2 - Valid: Jun 07, 2017 - Jun 13, 2017

Preliminary

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Above-average rainfall: Weekly total rainfall in the upper third of the historical range.
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Above-normal temperatures: 7-day mean temperatures in the upper third of the historical range.
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