Global Tropics Hazards And Benefits Outlook

5/22/2018

Brad Pugh

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

2 Tropical Cyclones: Gulf of Aden and western Arabian Sea

Cool shading
More clouds/rain

Warm shading
Less clouds/rain
Synopsis of Climate Modes

**ENSO:**

- ENSO-neutral is favored through Sep-Nov 2018, with chances of El Nino increasing to near 50 percent by Northern Hemisphere winter 2018-19.

**MJO and other subseasonal tropical variability:**

- The enhanced (suppressed) phase of the MJO is centered over the Indian (Pacific) Ocean.
- Although model solutions vary on the strength of the MJO during the next two week, its likely to continue propagating east from the Indian Ocean to the Maritime Continent.
- Watching the Gulf of Mexico for an early season tropical cyclone
- Regardless of development, heavy rainfall likely from western Cuba north to the eastern half of the Gulf Coast.

**Extratropics:**

- Teleconnection responses across North America are weak during this time of year.
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center

Week 1 - Valid: May 23, 2018 - May 29, 2018

Week 2 - Valid: May 30, 2018 - Jun 05, 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: 05/22/2018
Forecaster: Pugh

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.
During early May, a wave-1 signal consistent with an active MJO event re-emerged, with enhanced convection across the Americas, Atlantic, and Africa.

Wave-1 with a moderate MJO projection

Eastward propagation slowed recently due to interference from westward-moving Rossby Waves.
Amplitude and speed differences increase later in Week-1 and Week-2

Preferred ECMWF model indicates a faster eastward propagation
Average Conditions when the MJO is present

CAVEAT: These panels are representative of robust MJO events.

Expectations

Week-1: Phase 1

Week-2: Phase 1/2

CAVEAT: These panels are representative of robust MJO events.
Enhanced phase of the MJO crossed the Prime Meridian two weeks ago. Rossby Waves are forecast to interfere with the MJO during the next two weeks.
Connections to U.S. Impacts
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