Global Tropics Hazards And Benefits Outlook

September 13, 2016

Anthony Artusa

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:**

- Not Active

**ENSO-Neutral conditions are slightly favored (55-60%) during the upcoming NH fall and winter 2016-17.**

**MJO and other subseasonal tropical variability:**

- Intraseasonal signal over (north)western Pacific is weak; tied to monsoon trough & TC activity

- Dynamical models indicate weak to moderate amplitude MJO, emerging between the eastern Indian Ocean and the western Pacific.

**Extratropics:**

- The extended range temperature and precipitation forecasts for the U.S. are not likely to be impacted by the MJO.
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center

Week 1 - Valid: Sep 14, 2016 - Sep 20, 2016

Week 2 - Valid: Sep 21, 2016 - Sep 27, 2016

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: 09/13/2016
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.
IR Satellite & 200-hpa Velocity Potential Anomalies

Green: Enhanced Divergence  Brown: Enhanced Convergence

Breakdown of the signal into higher wavenumber modes.
Wheeler-Hendon based analyses of model forecasts indicate a somewhat stronger signal emerging over the region between the eastern Indian Ocean and the western Pacific.
Connections to U.S. Impacts
Week 2 – Temperature and Precipitation
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center

Week 1 - Valid: Sep 14, 2016 - Sep 20, 2016

Week 2 - Valid: Sep 21, 2016 - Sep 27, 2016

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: 09/13/2016
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.