Global Tropics Hazards And Benefits Outlook

August 23, 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:**
- **La Niña Watch**

La Niña is favored to develop during August - October 2016, with about a 55-60% chance of La Niña during the fall and winter 2016-17.

**MJO and other subseasonal tropical variability:**
- Enhanced phase of MJO/Tropical Storm Aliasing/Monsoon Trough over western North Pacific
- Dynamical models indicate signal will remain over western North Pacific through Week-2, & either weaken or remain a similar intensity
- Difficult to determine partial contributions from MJO/Tropical Storm Aliasing/Monsoon Trough

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


Week 2 - Valid: Aug 31, 2016 - Sep 06, 2016

Produced: 08/23/2016
Forecaster: Artusa

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.

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.
In general, a Wave-2-like pattern

Enhanced convection over tropical North Pacific & around S. America.... Suppressed convection elsewhere.

Appearing to coalesce towards a Wave-1-like pattern with enhanced divergence over Pacific/Maritime Continent.
Wheeler-Hendon based analyses of model forecasts indicate a continued signal for Weeks 1&2 over the western North Pacific, with little if any eastward propagation, and similar amplitude.
Connections to U.S. Impacts
AO: Observed & ENSM forecasts

1000mb Z (Obs: 26Apr2016 - 23Aug2016)  AD index
mean=0.0089

1000mb Z (7day Forecast)  AD index
mean=-0.1204  cor(w/obs)=0.8520

1000mb Z (10day Forecast)  AD index
mean=-0.2493  cor(w/obs)=0.6534

1000mb Z (14day Forecast)  AD index
mean=-0.3884  cor(w/obs)=0.3321
Week 2 – Temperature and Precipitation

8-14 Day Outlook:
- Temperature Probability
  - 90% to 80% probability of Below Normal
  - 80% to 70% probability of Normal
  - 70% to 60% probability of Above Normal
- Precipitation Probability
  - 90% to 80% probability of Below Normal
  - 80% to 70% probability of Normal
  - 70% to 60% probability of Above Normal
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center


Week 2 - Valid: Aug 31, 2016 - Sep 06, 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: 08/23/2016
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.