Global Tropics Hazards And Benefits Outlook
February 5, 2019

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

Cool shading
More clouds/rain

Warm shading
Less clouds/rain
Synopsis of Climate Modes

**ENSO: (10 January 2019 Update)**
- ENSO Alert System Status: [El Niño Watch](#)

- El Niño is expected to form and continue through the Northern Hemisphere spring 2019 (~65% chance).

- Given the timing and that a weak event is favored, significant global impacts are not anticipated during the remainder of winter, even if conditions were to form.

- Next update scheduled for Feb 14

**MJO and other subseasonal tropical variability:**
- The MJO remains active but recently slowed over the Pacific Ocean.

- Good model agreement exists for eastward propagation to resume with the enhanced phase crossing the Western Hemisphere.

**Extratropics:**
- MJO would favor a colder solution for the eastern CONUS later in February.
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center

Week 1 - Valid: Feb 06, 2019 - Feb 12, 2019

Week 2 - Valid: Feb 13, 2019 - Feb 19, 2019

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: 02/05/2019
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.
Eastward propagation of enhanced convection slowed at beginning of February.

Suppressed phase continued progressing east to the Maritime Continent.
ECMWF remains the fastest with eastward propagation through the Western Hemisphere
CFSv2 Weeks 1 & 2 Precipitation
16 Member Ensemble Mean Forecast from 04Feb2019

Week 1 Anomalies (mm/day) 5Feb2019–11Feb2019

Week 2 Anomalies (mm/day) 12Feb2019–18Feb2019
Pattern change is good news for Queensland and southern Brazil...
Connections to U.S. Impacts
Large ensemble spread with phase of AO during Week-2
Phases 7-8-1 during next 2 weeks
Late February predicted to be colder than normal by the CFS and ECMWF models but uncertainty is high if and when this transition occurs across the East.
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