Global Tropics Hazards And Benefits Outlook

8/21/2018

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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

Ernesto – ATL
Lane – EPAC/CPAC
Cimaron & Soulik - WPAC

Cool shading
More clouds/rain

Warm shading
Less clouds/rain
Synopsis of Climate Modes

**ENSO: (August 9, 2018 Update)**
- ENSO Alert System Status: [El Niño Watch](#)

- ENSO-neutral conditions are expected to give way to El Niño conditions, with the chance for El Niño increasing to about 60% during fall, and to about 70% during winter 2018-19.

**MJO and other subseasonal tropical variability:**
- MJO is weak with amplitude less than 1.

- Most models have ensemble members that hint at the MJO re-emerging over the eastern Indian Ocean/Maritime Continent during the end of Week-1 or Week-2, but there is enough spread that confidence is low.

**Extratropics:**
- A prominent wave train over the North Pacific is likely influenced by recent TC activity over the West Pacific.
- MJO evolution does not support strong possibilities of TC formation.
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center

**Week 1 - Valid: Aug 22, 2018 - Aug 28, 2018**

**Week 2 - Valid: Aug 29, 2018 - Sep 04, 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: 08/21/2018
Forecaster: MacRitchie

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.
Strong convection over the Pacific and Maritime Continent.

Wave-2 patterns begin to emerge.

Wave-2 pattern sets in; strong convection over WPAC due mainly to TC activity.
Models suggest possibility of MJO development but there is considerable spread and low confidence in this forecast.
Average Conditions when the MJO is present

CAVEAT: These panels are representative of robust MJO events.
Kelvin wave activity during early August helped spawn TC activity; weak MJO and strong ER wave activity forecast for the central Pacific.
August Tropical Storm Formation by MJO phase

Phase 1 (101 days) 38 storms

Phase 2 (79 days) 31 storms

Phase 3 (51 days) 27 storms

Phase 4 (40 days) 12 storms

Phase 5 (117 days) 40 storms

Phase 6 (101 days) 50 storms

Phase 7 (43 days) 17 storms

Phase 8 (26 days) 17 storms

Null (466 days) 189 storms
No new tropical cyclones are expected during the next five days.
Connections to U.S. Impacts
Week 2 – Temperature and Precipitation

8-14 DAY OUTLOOK
TEMPERATURE PROBABILITIES
MADE 20 AUG 2018
VALID AUG 28 - SEP 03, 2018

8-14 DAY OUTLOOK
PRECIPITATION PROBABILITIES
MADE 20 AUG 2018
VALID AUG 28 - SEP 03, 2018
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