Global Tropics Hazards And Benefits Outlook
09/18/2018

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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

Cool shading
More clouds/rain

Warm shading
Less clouds/rain
Synopsis of Climate Modes

**ENSO: (September 13, 2018 Update)**

- **ENSO Alert System Status:** [El Niño Watch](#)

- There is a 50-55% chance of El Niño onset during the Northern Hemisphere fall 2018 (September-November), increasing to 65-70% during winter 2018-19.

**MJO and other subseasonal tropical variability:**

- The MJO is currently weak but models forecast it to strengthen and emerge in phases 8/1 by Week-2.

- Equatorial Rossby wave activity and a transition to an El Niño base state are the primary drivers along with several active TCs.

**Extratropics:**

- Although the MJO is likely to re-emerge by Week-2, downstream extratropical impacts aren’t likely to be significant until later.
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center

Week 1 - Valid: Sep 19, 2018 - Sep 25, 2018

Week 2 - Valid: Sep 26, 2018 - Oct 02, 2018

Confidence

Tropical Cyclone Formation
High Moderate 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: 09/18/2018
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.
Wave-1 turns to Wave-2 as low-frequency variability weakens and TCs become active.

Regionally small areas of convection dominate the pattern but this should change by Week-2 as the MJO emerges.
There is good agreement of an MJO in phase 8 by Week-2.
MJO remains weak
Average Conditions when the MJO is present

CAVEAT: These panels are representative of robust MJO events.

Expected during Week-2
September Tropical Storm Formation by MJO phase

Phase 1 (81 days) 31 storms
Phase 4 (78 days) 30 storms
Phase 7 (39 days) 22 storms
Phase 2 (122 days) 56 storms
Phase 5 (106 days) 48 storms
Phase 8 (87 days) 29 storms
Phase 3 (51 days) 16 storms
Phase 6 (61 days) 27 storms
Null (333 days) 169 storms
Connections to U.S. Impacts
Week 2 – Temperature and Precipitation
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**Week 2 - Valid: Sep 26, 2018 - Oct 02, 2018**

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**Confidence**
- High
- Moderate

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