Global Tropics Hazards And Benefits Outlook

8/13/2019

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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**: (as of August 12, 2019 – next update on Thursday, September 12th)

- ENSO Alert System Status: Final El Niño Advisory

- ENSO-neutral conditions are present, and is most likely to continue through Northern Hemisphere Winter 2019-2020 (50-55% chance).

**MJO and other subseasonal tropical variability:**

- The MJO was weak over the past week.

- The MJO is forecast to remain weak during most of the GTH forecast period, with a slight chance for re-emergence later during Week-2.

- Continued Rossby wave activity is over western Pacific, partially responsible tropical cyclogenesis in the Pacific.
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center

Week 1 - Valid: Aug 14, 2019 - Aug 20, 2019

Week 2 - Valid: Aug 21, 2019 - Aug 27, 2019

Produced: 08/13/2019
Forecaster: Novella

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.

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.
Incoherent, Wave-2 pattern.

TC activity in WPAC anchored enhanced convection in Pacific, however a N/S dipole of VP was observed

TC activity in WPAC anchored enhanced convection in Pacific, with suppressed envelope expanded over Americas/Atlantic.
• Good agreement between GEFS and ECMWF this week. JMA still eager to amplify MJO signal.
• As indicated in the forecast last week, the recent reemergence of the MJO more reflective of an enhancement of lower-level easterly winds, producing a spurious increase in RMM space.
• Some ECMWF members do suggest some re-strengthening and eastward propagation of the MJO later during Week-2 (phases 1+2).
Currently: Weak MJO and Kelvin wave signals, active equatorial Rossby wave.

Forecast: Rossby wave development in eastern and central Pacific (could fuel TC development)
Five-Day Graphical Tropical Weather Outlook
National Hurricane Center Miami, Florida

No Disturbances

No new tropical cyclones are expected during the next five days.
Days 1-4

Day 5-8

Day 9-12

Day 13-15
Connections to U.S. Impacts
Week 2 – Temperature and Precipitation

8-14 DAY OUTLOOK
TEMPERATURE PROBABILITY
MADE 12 AUG 2019
VALID AUG 20 – 26, 2019

8-14 DAY OUTLOOK
PRECIPITATION PROBABILITY
MADE 12 AUG 2019
VALID AUG 20 – 26, 2019

DASHED BLACK LINES ARE CLIMATOLOGY
VALUES ABOVE TA) OR BELOW (BE NORMAL
GRAY AREAS ARE NEAR-NORMAL

Probability of Below | Normal | Probability of Above
90% | 80% | 70% | 60% | 50% | 40% | 30% | 20% | 10% | 0% | 0% | 10% | 20% | 30% | 40% | 50% | 60% | 70% | 80% | 90%
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