Global Tropics Hazards And Benefits Outlook

6/9/2020

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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

TC Nisarga

Cool shading
More clouds/rain

Warm shading
Less clouds/rain
Synopsis of Climate Modes

**ENSO:** (May 14, 2020 Update)  
*next update on Thursday (6/11)!*

- ENSO Alert System Status: Not Active

- There is a ~65% chance of ENSO-neutral during Northern Hemisphere summer 2020, with chances decreasing through the autumn (to 45-50%).

**MJO and other subseasonal tropical variability:**

- The upper-level VP pattern resembles an MJO signal but is more likely due to a strong Kelvin Wave that is currently over the West Pacific.

- Dynamical model RMM index forecasts suggest that the MJO will stay inactive, even though the Kelvin Wave is forecast to circumnavigate the Tropics again.
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center

**Week 1 - Valid: Jun 10, 2020 - Jun 16, 2020**

**Week 2 - Valid: Jun 17, 2020 - Jun 23, 2020**

<table>
<thead>
<tr>
<th>Confidence</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Tropical Cyclone Formation</td>
<td>Development of a tropical cyclone (tropical depression - TD, or greater strength).</td>
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<td>Above-average rainfall</td>
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Produced: 06/09/2020  
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 pattern, strong frontal activity off eastern Asia.

Enhanced convection over Central America and western Africa.

Wave-1 pattern that resembles a strong MJO, but is more likely due to a slow Kelvin Wave.
The GEFS and ECMWF forecast a weak MJO signal during the next two weeks.
Average Conditions when the MJO is present

CAVEAT: These panels are representative of robust MJO events.
Kelvin wave activity in the Indian Ocean and West Pacific.

Faint MJO signal.

Hints of Rossby wave activity over the West Pacific in early June.
June Tropical Storm Formation by MJO phase

Phase 1 (104 days) 14 storms

Phase 2 (92 days) 11 storms

Phase 3 (57 days) 10 storms

Phase 4 (80 days) 6 storms

Phase 5 (77 days) 8 storms

Phase 6 (92 days) 17 storms

Phase 7 (45 days) 16 storms

Phase 8 (70 days) 15 storms

Null (423 days) 71 storms
No new tropical cyclones are expected during the next five days.
Connections to U.S. Impacts
AO: Observed & ENSM forecasts

1000mb Z (Obs: 11Feb2020 - 09Jun2020) AD index

1000mb Z (7day Forecast) AD index

1000mb Z (10day Forecast) AD index

1000mb Z (14day Forecast) AD index
Week 2 – Temperature and Precipitation

[Map showing temperature and precipitation outlook for the United States for the next 2 weeks, with color-coded areas indicating probability distributions.]
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center

**Week 1 - Valid: Jun 10, 2020 - Jun 16, 2020**

**Week 2 - Valid: Jun 17, 2020 - Jun 23, 2020**

**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.

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