Global Tropics Hazards And Benefits Outlook

July 2, 2013

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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

Week 1 - Valid: Jun 26, 2013 - Jul 02, 2013

Cool shading
More clouds/rain

Warm shading
Less clouds/rain

Week 2 - Valid: Jul 03, 2013 - Jul 09, 2013

7-Day Average OLR Anomaly
2013/06/24 - 2013/06/30
Synopsis of Climate Modes

**ENSO:**
- ENSO-neutral conditions are favored to continue through Northern Hemisphere spring 2013

**MJO and other subseasonal tropical variability:**
- The MJO remained active over the past week, although other modes of subseasonal variability continue to play a role in the global tropical convective anomalies. The MJO convectively enhanced phase is currently over the Western Hemisphere.
- There is considerable spread among the dynamical and statistical model MJO forecasts, with some limiting the eastward propagation of the signal and others continuing propagation with various amplitudes.

**Extratropics:**
- The extended range forecast for the U.S. aligns well with the typical circulation patterns based on the current and forecast phases of the MJO. The forecast includes enhanced chances of above normal precipitation over the eastern half of the CONUS and an enhanced Southwest Monsoon.
IR Satellite & 200-hpa Velocity Potential Anomalies

Green: Enhanced Divergence  Brown: Enhanced Convergence
Average Conditions when the MJO is present (May-Sep)

CAVEAT:
Active phase of the MJO forecast to impact the Western Hemisphere.

There are indications of other modes of variability.
July Tropical Storm Formation by MJO phase

Phase 1 (144 days) 37 storms
Phase 4 (40 days) 14 storms
Phase 7 (67 days) 21 storms
Phase 2 (74 days) 20 storms
Phase 5 (63 days) 11 storms
Phase 8 (61 days) 24 storms
Phase 3 (49 days) 17 storms
Phase 6 (60 days) 23 storms
Null (400 days) 130 storms
Tropical Cyclone Activity is Not Expected During the Next 48 Hours

Outlined areas denote current position of systems discussed in the Tropical Weather Outlook. Color indicates probability of tropical cyclone formation within 48 hours:
- Yellow: Low <30%
- Orange: Medium 30-50%
- Red: High >50%
Connections to U.S. Impacts
Indicates a shift toward milder conditions across the eastern half of the U.S., with some significance across the Corn Belt and mid-Atlantic.

Some significance in composites indicating enhanced precipitation over the central Plains and Southeast.
Week 2 – Temperature and Precipitation
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center

Week 1 - Valid: Jul 03, 2013 - Jul 09, 2013

Week 2 - Valid: Jul 10, 2013 - Jul 16, 2013

Confidence

Tropical Cyclone Formation
High
Moderate

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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Product is updated once per week. The product targets broad scale conditions integrated over a 7-day period for US interests only. Consult your local responsible forecast agency.