Global Tropics Hazards And Benefits Outlook

May 20, 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

Global Tropics Hazards and Benefits Outlook - Climate Prediction Center

Week 1 - Valid: May 14, 2014 - May 20, 2014

Week 2 - Valid: May 14, 2014 - May 20, 2014

7-Day Average OLR Anomaly

Cool shading
More clouds/rain

Warm shading
Less clouds/rain
Synopsis of Climate Modes

**ENSO:**
• Chance of El Niño increases during the remainder of the year, exceeding 65% during summer.

**MJO and other subseasonal tropical variability:**
• The MJO weakened during the past two weeks, with any remnant enhanced phase approaching the Maritime Continent.

• A series of Kelvins waves have propagated across the Eastern Hemisphere during the past couple of weeks.

• Dynamical and statistical tools generally suggest weak MJO activity during the next couple of weeks.

**Extratropics:**
• It is often challenging to discern extratropical impacts from the MJO during the spring season. Moreover, with only weak MJO activity ongoing, little to no extratropical impacts can be highlighted at this time.
MJO Indices

[RMM1, RMM2] Phase Space for 10-Apr-2014 to 19-May-2014

5-day Running Mean

Data updated through 20 May 2014
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Week 1 - Valid: May 21, 2014 - May 27, 2014

Week 2 - Valid: May 28, 2014 - Jun 03, 2014

Confidence
High
Moderate

Tropical Cyclone Formation
Development of a tropical cyclone that eventually reaches tropical storm/cyclone 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: 05/20/2014
Forecaster: Baxter

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.
Features of note:

1. Rapid eastward propagation associated with Kelvin wave activity.

2. Tendency for convection over the warmer-than-normal SSTs across the equatorial Pacific.

3. Breakdown of the wave-1 pattern.
Active MJO pattern (dashed/dotted lines)

Low frequency base state (boxes)

The low frequency signal has been modulated by subseasonal signals (e.g., MJO, Kelvin Waves)

The OLR signal places a weak MJO over the eastern Indian Ocean.

Note the Kelvin Wave activity
Connections to U.S. Impacts
Week 2 – Temperature and Precipitation

8-14 DAY OUTLOOK
TEMPERATURE PROBABILITY
MADE 19 MAY 2014
VALID MAY 27 – JUN 02, 2014
DASHED BLACK LINES ARE CliMATOLOGY
VALUES ABOVE 75% OR BELOW 25% NORMAL
UNSHADED AREAS ARE NEAR-NORMAL

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

8-14 DAY OUTLOOK
PRECIPITATION PROBABILITY
MADE 19 MAY 2014
VALID MAY 27 – JUN 02, 2014
DASHED BLACK LINES ARE CliMATOLOGY
VALUES ABOVE 75% OR BELOW 25% MEDIAN
UNSHADED AREAS ARE NEAR-MEDIAN

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