Global Tropics Hazards And Benefits Outlook
August 11, 2015

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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
**ENSO:**

- **Current:** [El Niño Advisory](#)
- **Outlook:** There is a greater than 90% chance that El Niño will continue through Northern Hemisphere winter 2015-16, and around an 80% chance it will last into early spring 2016.

**MJO and other subseasonal tropical variability:**

- The MJO is weak and not likely to impact tropical variability during the next 2 weeks.

- Most dynamical model MJO index forecasts depict a westward moving signal during the next 2 weeks, with little to no signal. Any amplitude in the WH framework is likely in response to tropical cyclone activity over the East Pacific.

**Extratropics:**

- The extended range temperature and precipitation forecasts for the U.S. are not likely to be impacted by the MJO, but more likely impacted by the ongoing El Nino and tropical cyclone activity near Baja California.
**Global Tropics Hazards and Benefits Outlook - Climate Prediction Center**

**Week 1 - Valid: Aug 12, 2015 - Aug 18, 2015**

**Week 2 - Valid: Aug 19, 2015 - Aug 25, 2015**

**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.

Produced: 08/11/2015
Forecaster: Rosencrans

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.
IR Satellite & 200-hpa Velocity Potential Anomalies

Green: Enhanced Divergence  Brown: Enhanced Convergence

Base state and transient features evident.

Wave-1 structure broken down. Residual active MJO over Atlantic.

Rossby Wave over Indian Ocean.
Wheeler-Hendon based analyses of model forecasts indicate little to no MJO related signal. Any amplitude here, outside the circle, is likely related to tropical cyclone activity.
Average Conditions when the MJO is present

CAVEAT: These panels are representative of robust MJO events.
Low frequency likely to dominate pattern more than MJO.

MJO indicated by red lines

Rossby wave near 100E.

Kelvin Wave likely to traverse Pacific.
CFS: Anom. PREC Week: 1: 12-Aug-2015 to 18-Aug-2015 (mm/week)

CFS: Anom. PREC Week: 2: 19-Aug-2015 to 25-Aug-2015 (mm/week)
No Disturbances

No new tropical cyclones are expected during the next five days.

Tropical Cyclone Formation Potential for the 5-Day Period Ending 8:00 am EDT Sun Aug 16 2015
Chance of Cyclone Formation in 5 Days: ▪ Low < 40% ▪ Medium 40-60% ▪ High > 60%
X indicates current disturbance location; shading indicates potential formation area.

Tropical Cyclone Formation Potential for the 5-Day Period Ending 5:00 am PDT Sun Aug 16 2015
Chance of Cyclone Formation in 5 Days: ▪ Low < 40% ▪ Medium 40-60% ▪ High > 60%
X indicates current disturbance location; shading indicates potential formation area.
Connections to U.S. Impacts
Lagged composites from MJO
5-day intervals

WHMJO Phase 1 t850 Lagged Composite (jas)

WHMJO Phase 1 olr Lagged Composite (jas)

NOT APPLICABLE DURING
WEAK MJO EVENTS.
Week 2 – Temperature and Precipitation

8-14 Day Outlook
Temperature Probability
Made 10 Aug 2015
Valid Aug 18 - 24, 2015

8-14 Day Outlook
Precipitation Probability
Made 10 Aug 2015
Valid Aug 18 - 24, 2015
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