Global Tropics Hazards And Benefits Outlook
October 29, 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

Cool shading
More clouds/rain

Warm shading
Less clouds/rain
Synopsis of Climate Modes

**ENSO:**
• ENSO-neutral is expected into the Northern Hemisphere spring 2014.

**MJO and other subseasonal tropical variability:**
• The MJO remained weak during the past 7 days. Most observational indicators are inconsistent with robust MJO activity. Other modes of subseasonal variability are playing a large role in the pattern of anomalous tropical convection.

• Dynamical model MJO index forecasts support little to no MJO related activity during the next 2 weeks. Statistical models have little to no MJO related signal as well.

**Extratropics:**
• The extended range forecast for the U.S. is not influenced greatly by the MJO or coherent ENSO modes. The AO is currently forecast to be significantly positive with an amplified pattern over much of North America.
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center

**Week 1 - Valid: Oct 30, 2013 - Nov 05, 2013**

**Week 2 - Valid: Nov 06, 2013 - Nov 12, 2013**

*Preliminary*

**Produced: 10/29/2013**

**Forecaster: Rosencrans**

**Confidence**
- **High**: Development of a tropical cyclone that eventually reaches tropical storm/cyclone strength.
- **Moderate**: 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. 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

Nearly vertical arrows = Slow propagation.

Evidence of other modes
MJO not an active factor in the latest observations.

Atmospheric Kelvin Wave to impact eastern Pacific, currently just east of Date Line.

Indications of Equatorial Rossby Waves influencing the pattern.
MJO Observation/Forecast

MJO Index Forecast for 28Oct2013-11Nov2013

Western Pacific
Western and Africa
Maritime Continent
Indian Ocean

GFS
ECMWF
UKMET
Average Conditions when the MJO is present (May-Sep)
FROM NHC EPAC GTWO:
THIS SYSTEM HAS A LOW CHANCE...NEAR 0 PERCENT...OF
BECOMING A TROPICAL CYCLONE DURING THE NEXT 48
HOURS...AND A MEDIUM CHANCE...50 PERCENT...OF BECOMING
A TROPICAL CYCLONE DURING THE NEXT 5 DAYS.
Connections to U.S. Impacts
Week 2 – Temperature and Precipitation

8-14 DAY OUTLOOK
TEMPERATURE PROBABILITY
MADE 28 OCT 2013
VALID NOV 05 - 11, 2013

8-14 DAY OUTLOOK
PRECIPITATION PROBABILITY
MADE 28 OCT 2013
VALID NOV 05 - 11, 2013

Week 2 - Valid: Nov 06, 2013 - Nov 12, 2013

Preliminary

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.

Produced: 10/28/2013
Forecaster: Rosencrans

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.