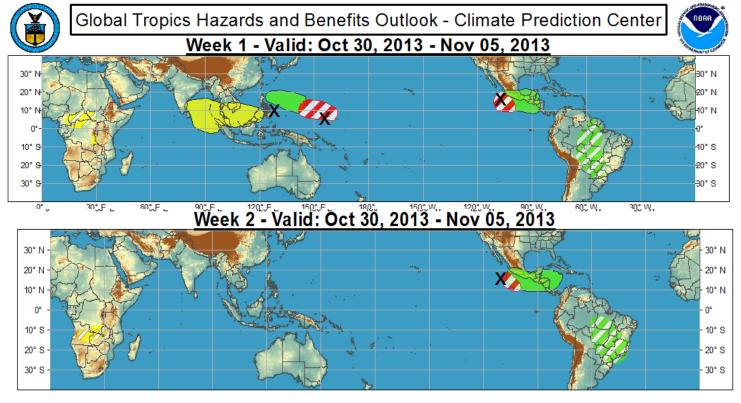
Global Tropics Hazards And Benefits Outlook <u>November 5, 2013</u>

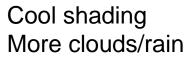
Stephen Baxter

Outline

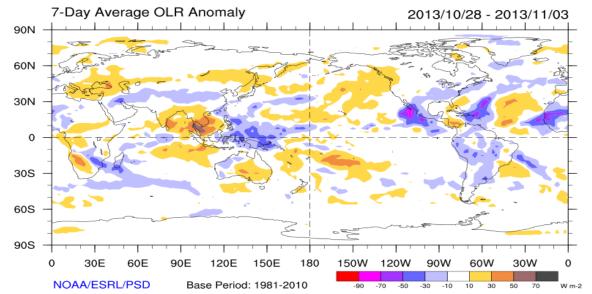
- 1. Review of Recent Conditions
- 2. Synopsis of Climate Modes
- 3. GTH Outlook and Forecast Discussion
- 4. Connections to U.S. Impacts

Outlook Review





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 showed signs of reorganizing in the past week with the enhanced phase currently centered over Africa. Other subseasonal and possibly interannual modes continue to play an important role in the pattern of tropical convection.
- Dynamical model MJO index forecasts suggest the propagation of a weak MJO through phases 2 and 3 over the next two weeks. Statistical tools are fairly robust, also suggesting propagation through phases 2 and 3.
- •Confidence is fairly low, however, due to some conflicting tools and interference from other modes of variability.

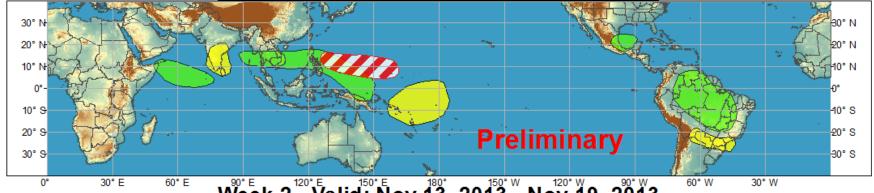
Extratropics:

- 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 strongly positive over the next ten days.
- The dominant extratropical feature is likely going to be a large block in the North Pacific, likely projecting onto both a negative PNA and a negative WP/NPO pattern.

Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Nov 13, 2013 - Nov 19, 2013



Confidence Moderate

Forecaster: Baxter

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.

Weekly total rainfall in the lower third of the historical range.

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.



Below-average rainfall

Above-normal temperatures





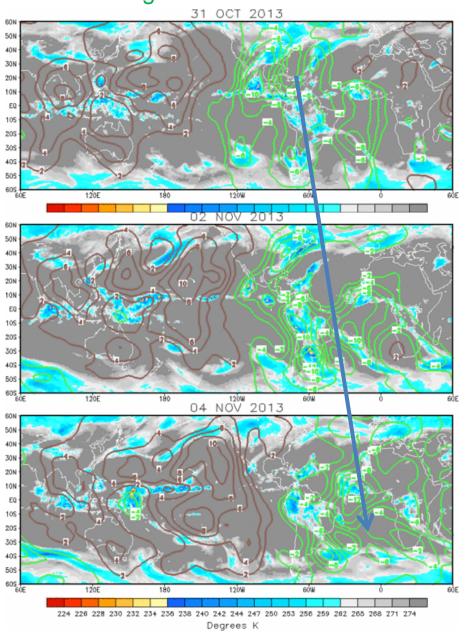




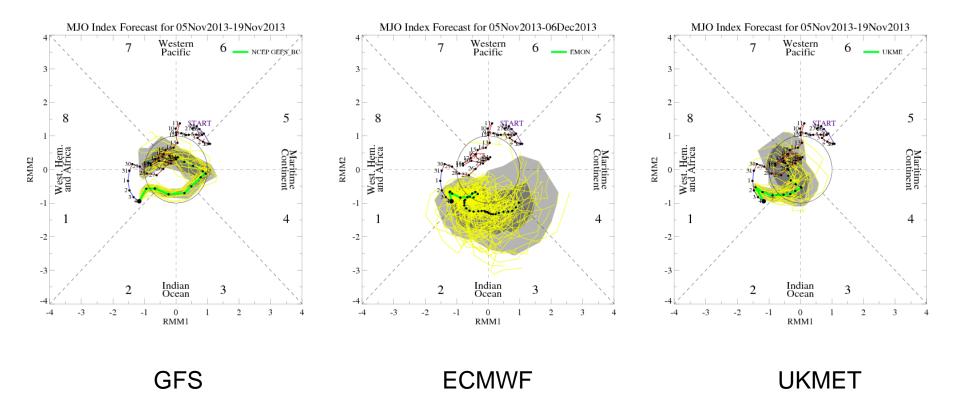


IR Satellite & 200-hpa Velocity Potential Anomalies

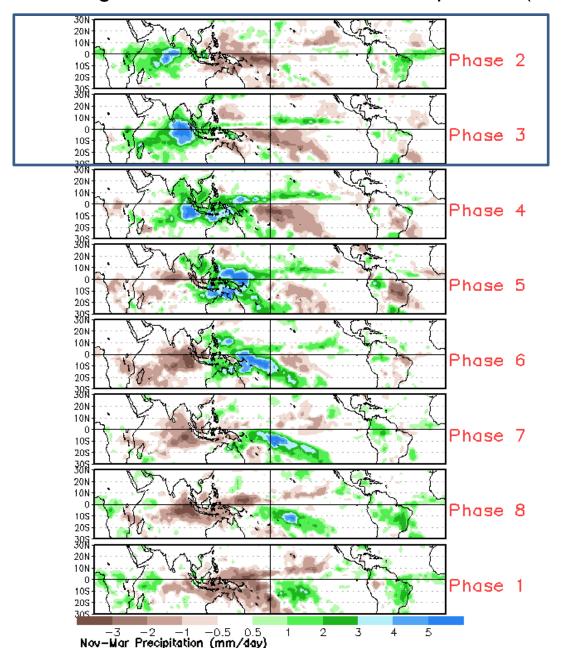
Green: Enhanced Divergence Brown: Enhanced Convergence



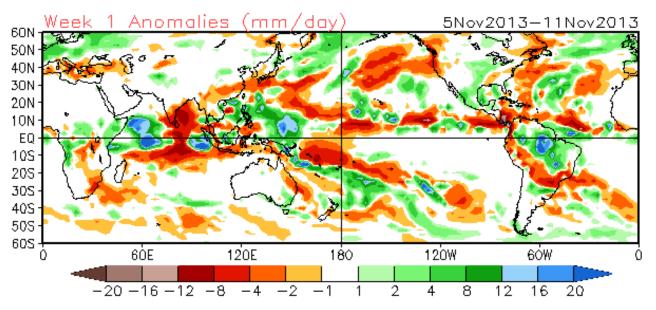
MJO Observation/Forecast

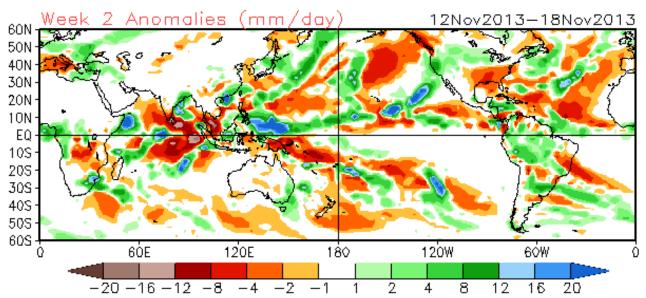


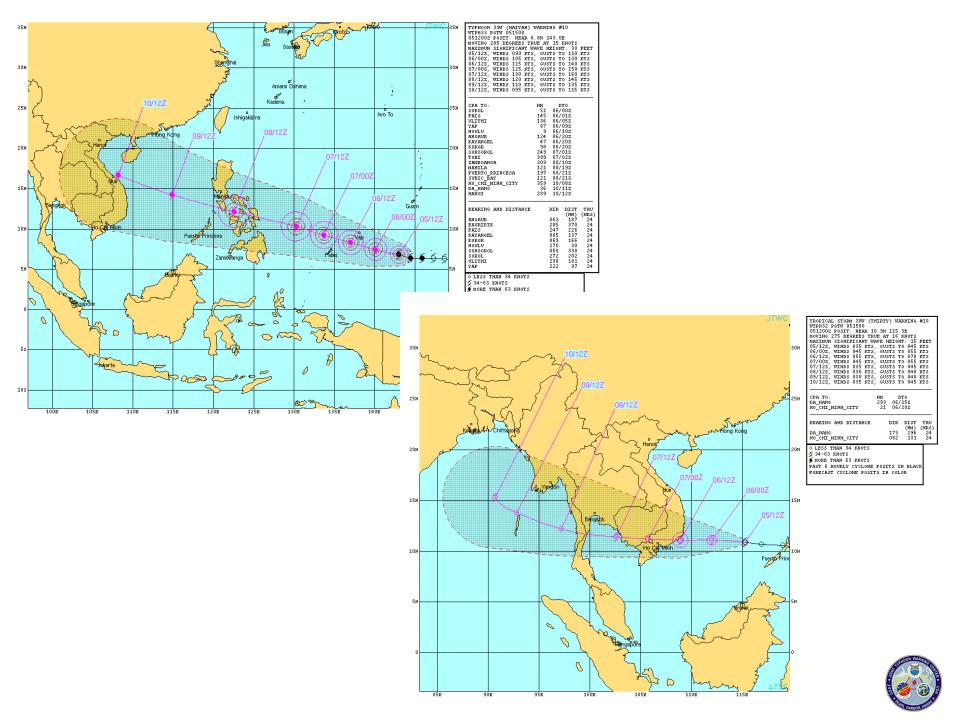
Average Conditions when the MJO is present (Nov-Mar)



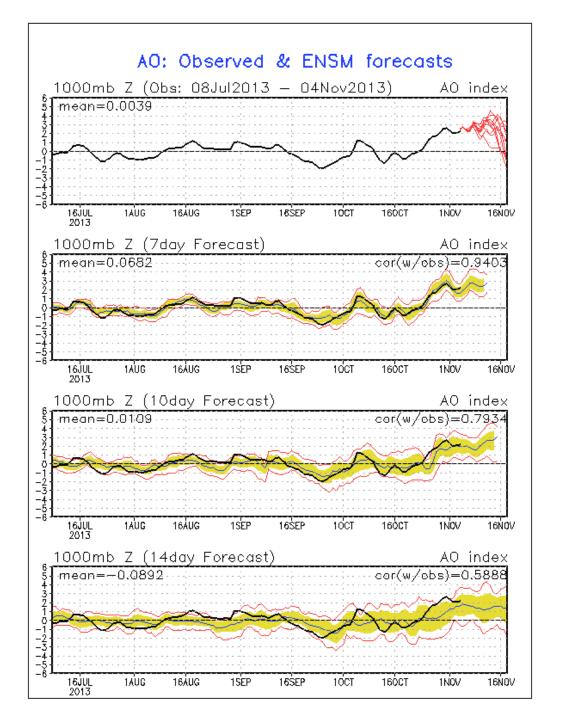
CFSv2 Weeks 1 & 2 Precipitation 16 Member Ensemble Mean Forecast from 04Nov2013

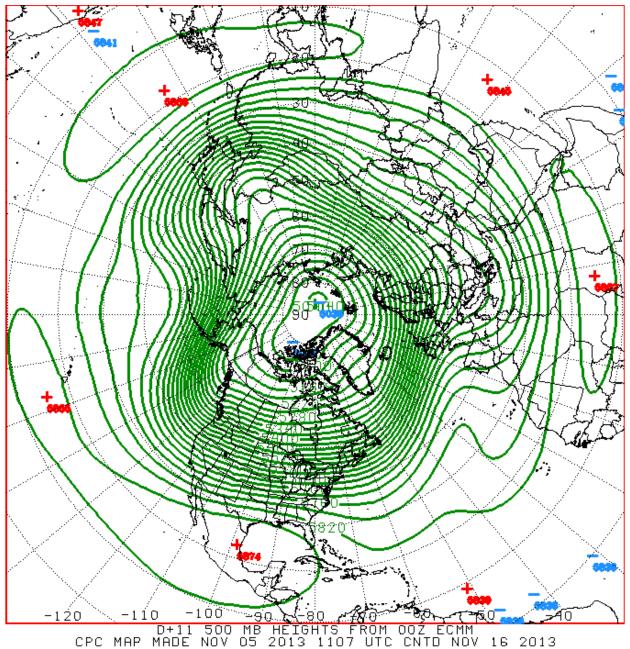




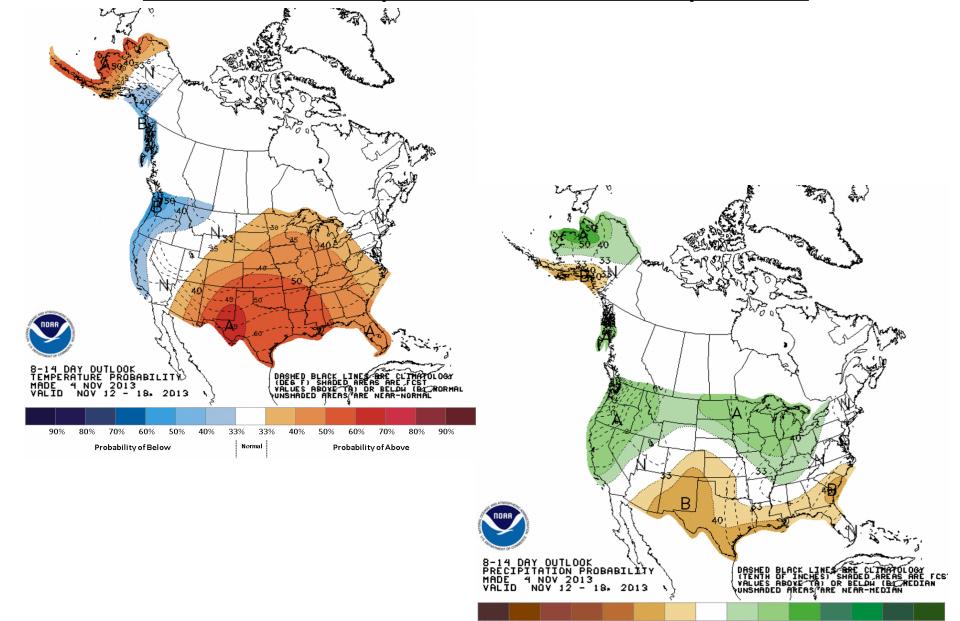


Connections to U.S. Impacts





Week 2 - Temperature and Precipitation



70%

60%

Probability of Below

33%

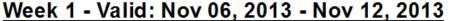
33%

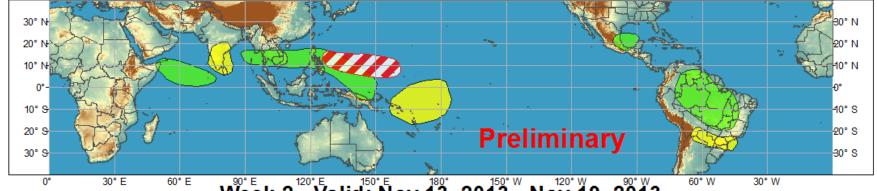
Probability of Above

Normal

Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Nov 13, 2013 - Nov 19, 2013



Confidence

Produced: 11/05/2013

Forecaster: Baxter Development of a tropical cyclone that eventually reaches tropical storm/cyclone strength.

Tropical Cyclone Formation

Moderate

Weekly total rainfall in the upper third of the historical range.

Above-average rainfall Below-average rainfall

Weekly total rainfall in the lower third of the historical range.

Above-normal temperatures Below-normal temperatures



7-day mean temperatures in the upper third of the historical range.

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.











