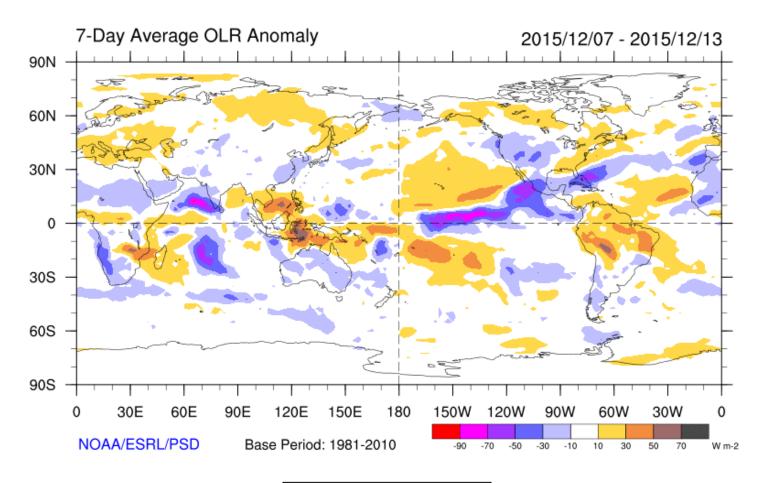
Global Tropics Hazards And Benefits Outlook <u>December 15, 2015</u>

Jon Gottschalck

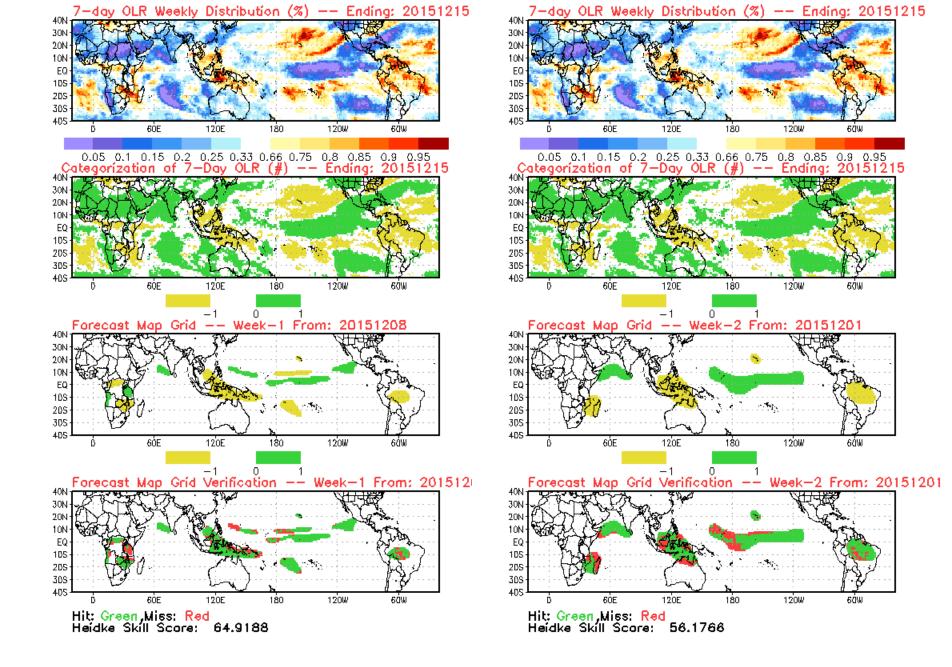
<u>Outline</u>

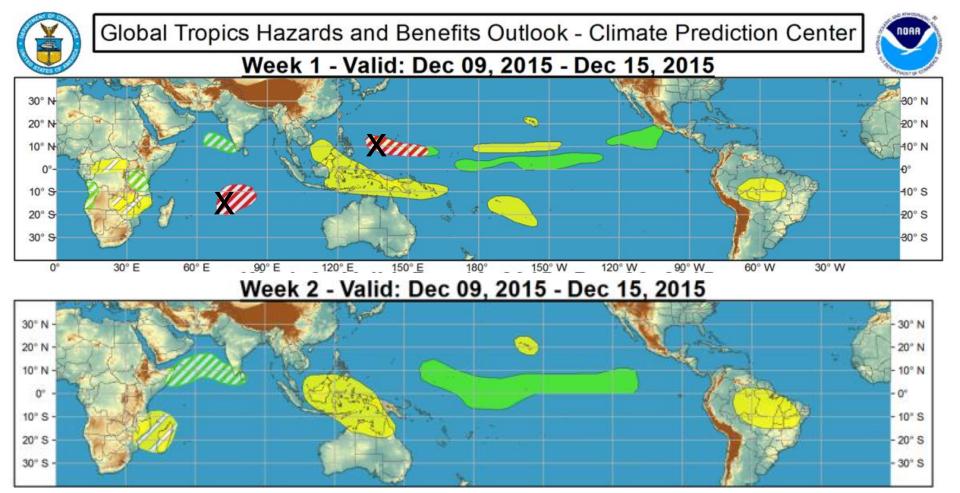
- 1. Review of Recent Conditions
- 2. Synopsis of Climate Modes
- 3. GTH Outlook and Forecast Discussion
- 4. Connections to U.S. Impacts

Weekly Tropical Convection Review



Cool shading
More clouds/rain
Warm shading
Less clouds/rain





Tropical Cyclone Review

Synopsis of Climate Modes

ENSO:

- Current: El Niño Advisory
- Outlook: El Niño is expected to remain strong through the Northern Hemisphere winter 2015-16, with a transition to ENSO-neutral anticipated during late spring or early summer 2016.

MJO and other subseasonal tropical variability:

- The MJO remained generally incoherent over the past week
- But the MJO is showing some signs of becoming better organized in some observations
- Some dynamical forecasts of the MJO index show a strengthening and eastward propagating signal over the next two weeks. But considerable spread in model guidance.
- The MJO is favored to modulate the pattern of anomalous tropical convection over the next two weeks

Extratropics:

- The potential MJO development needs to be monitored quite closely over the next few weeks because if organized, robust, long lived it could modify the circulation across the PNA sector
- NAO and AO forecast to be strongly positive, PNA negative over the next two weeks

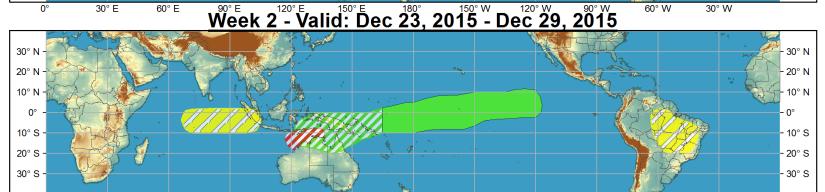


Global Tropics Hazards and Benefits Outlook - Climate Prediction Center









Confidence Produced: 12/15/2015

High Moderate Forecaster: Gottschalck

Tropical Cyclone FormationDevelopment of a tropical cyclone (tropical depression - TD, or greater strength).

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, 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.







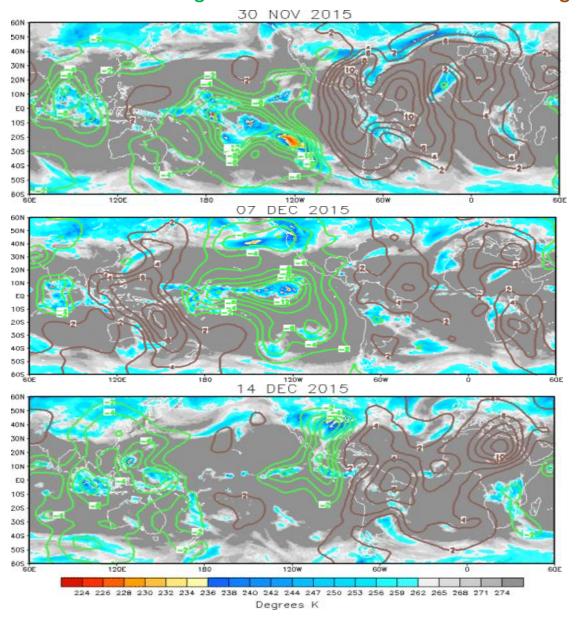




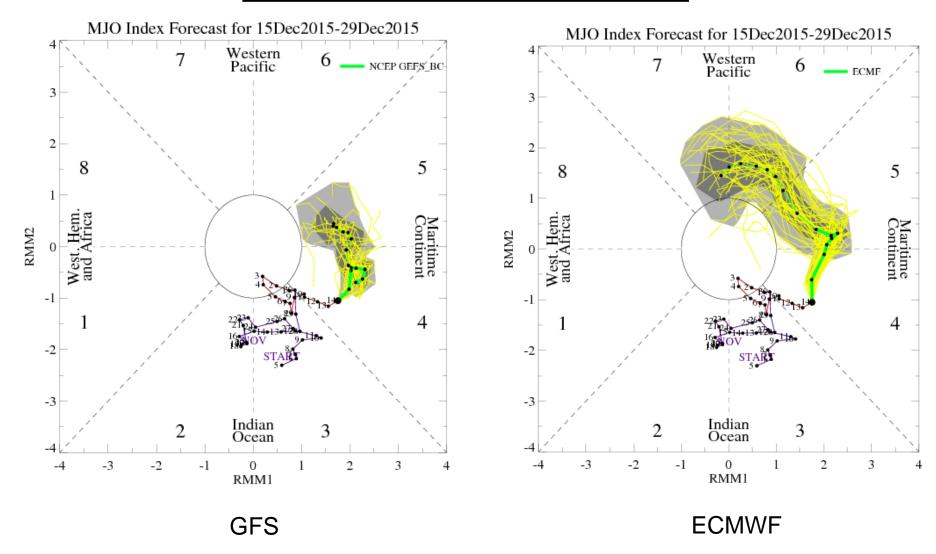


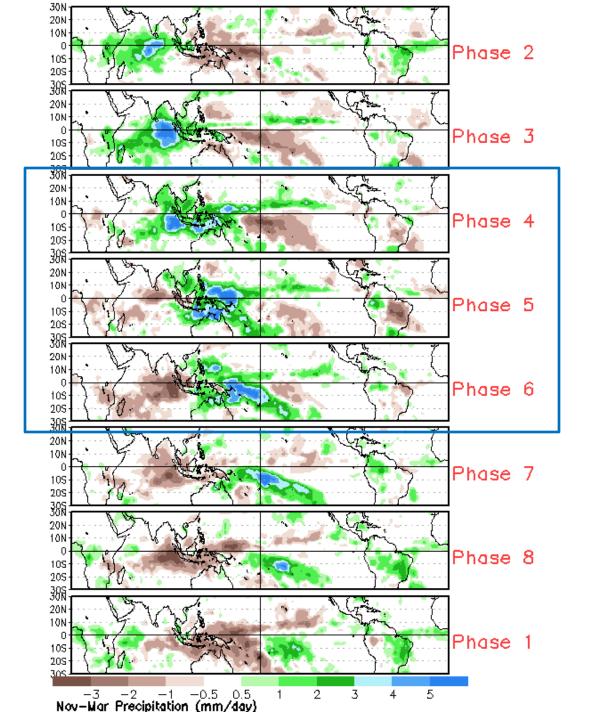
IR Satellite & 200-hpa Velocity Potential Anomalies

Green: Enhanced Divergence Brown: Enhanced Convergence

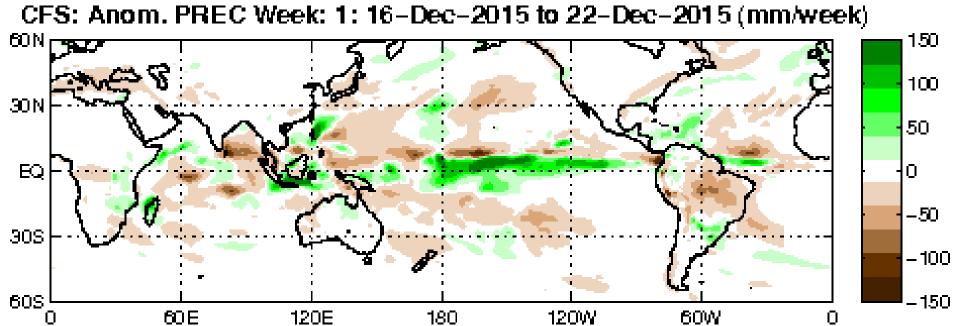


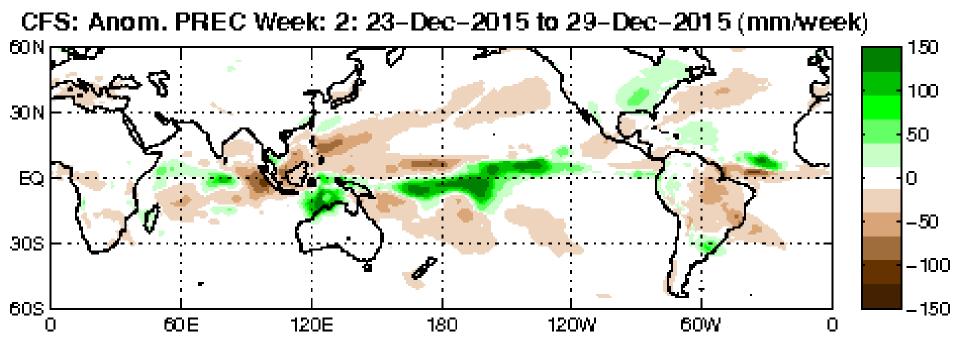
MJO Observation/Forecast

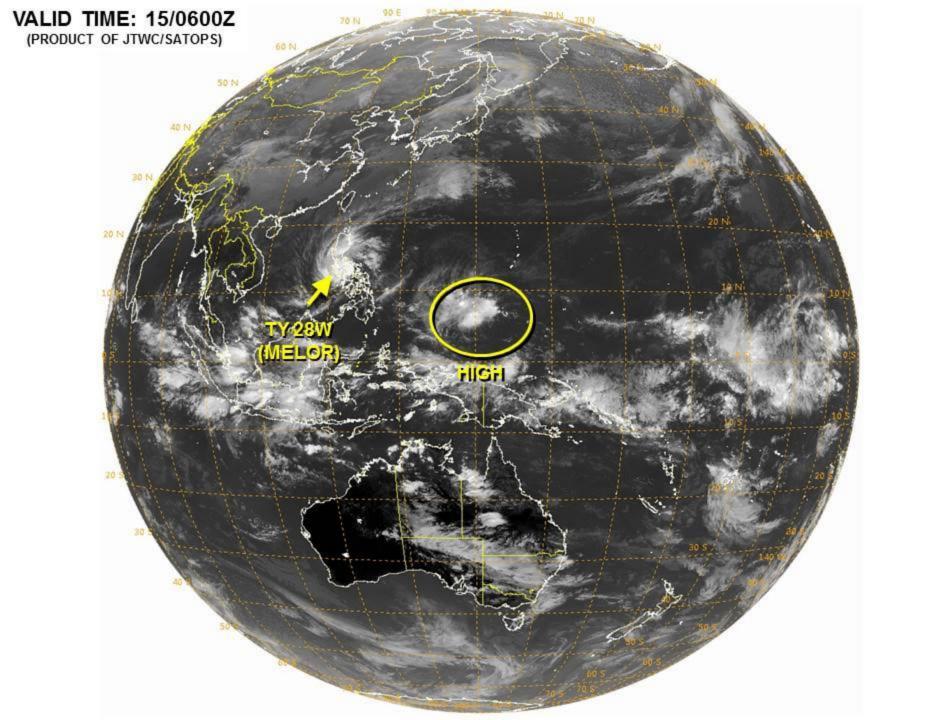




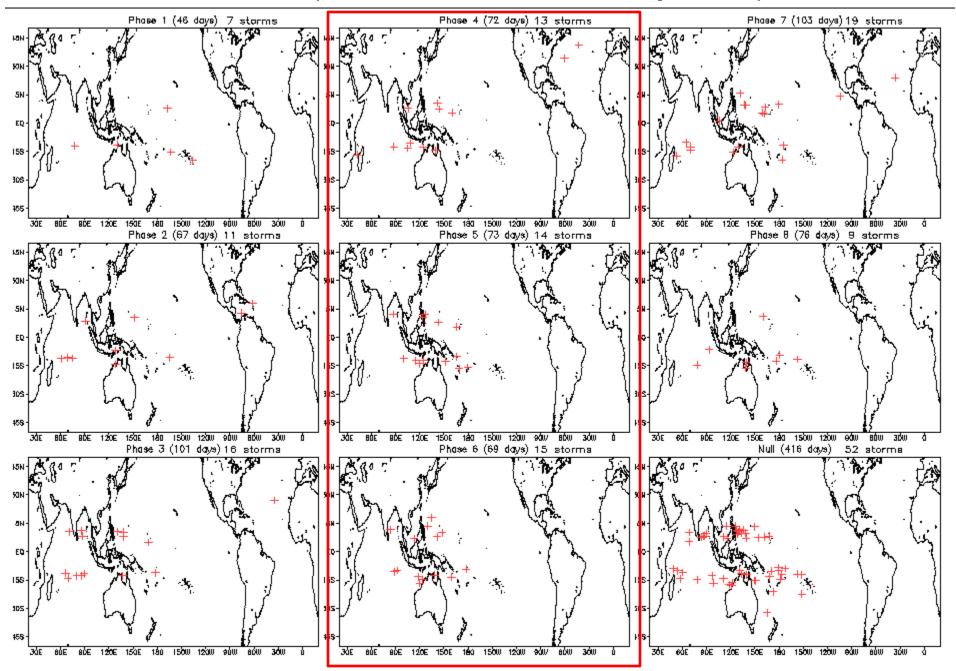
MJO Composites



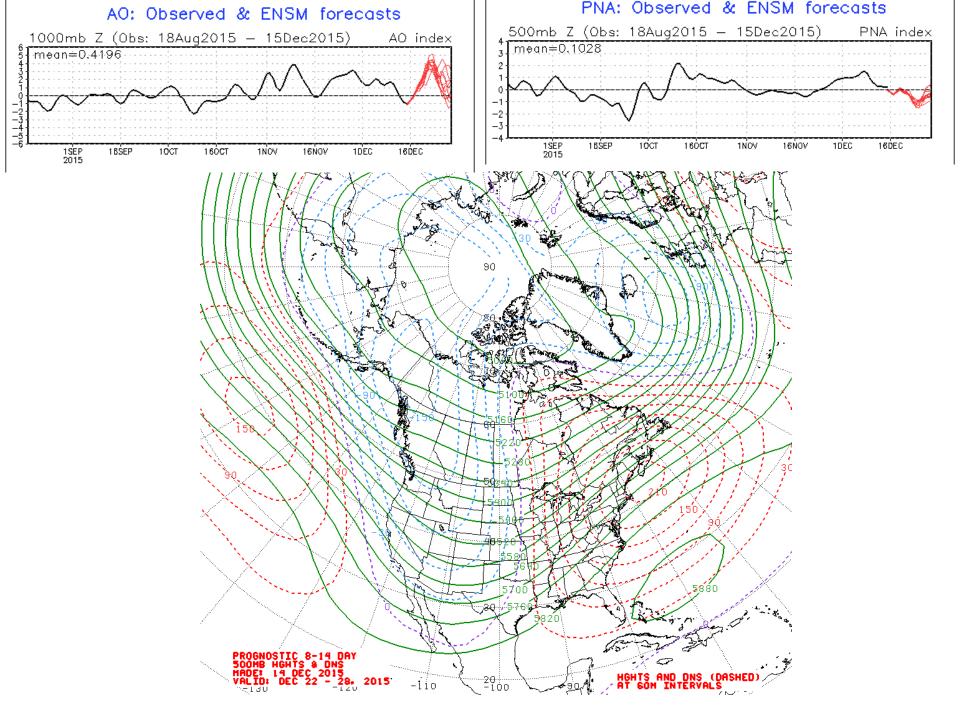


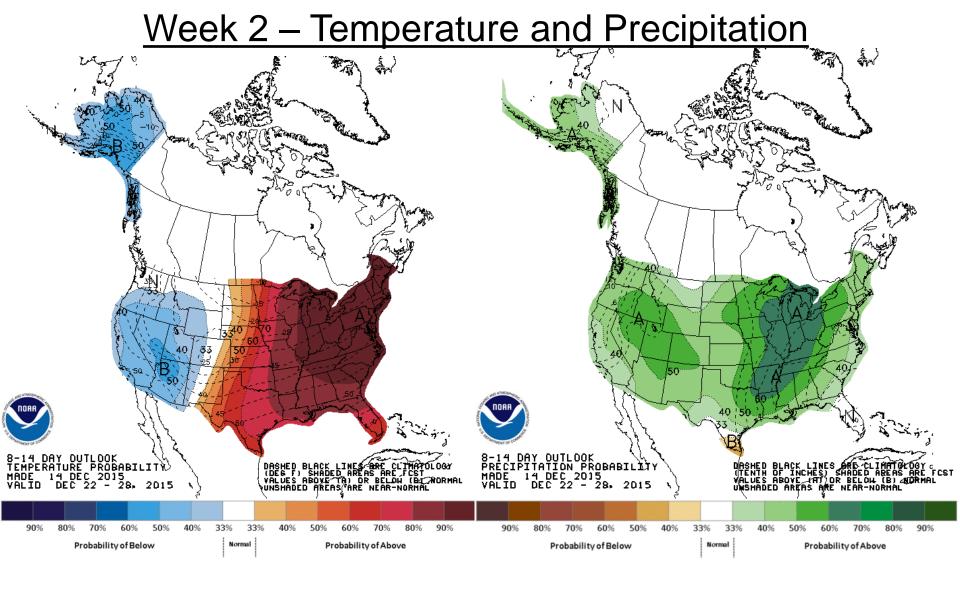


December Tropical Storm Formation by MJO phase

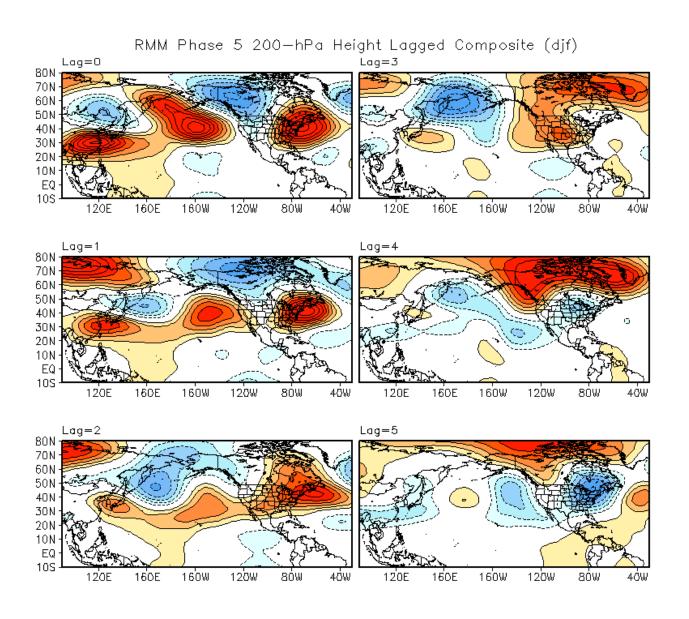


Connections to U.S. Impacts





MJO Lagged Composites





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