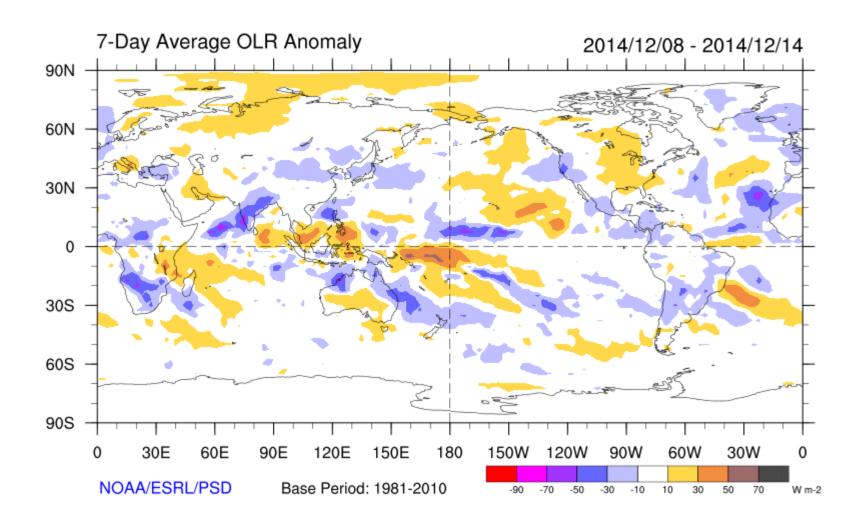
Global Tropics Hazards And Benefits Outlook <u>December 16, 2014</u>

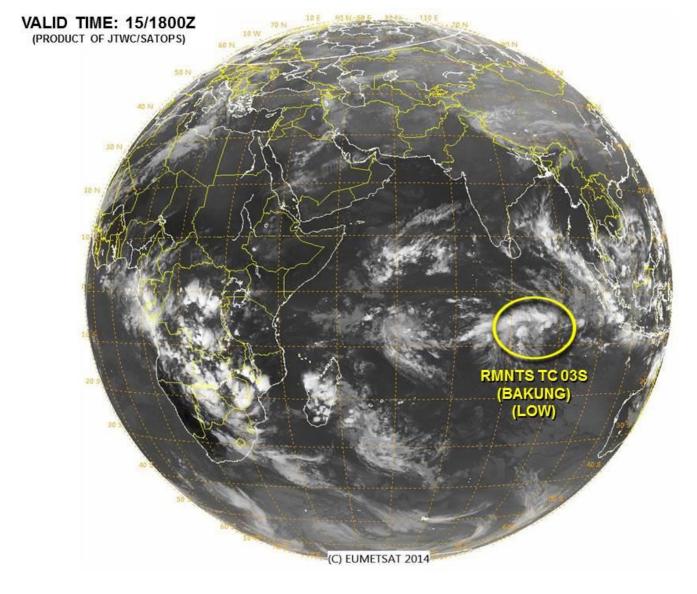
Jon Gottschalck

<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

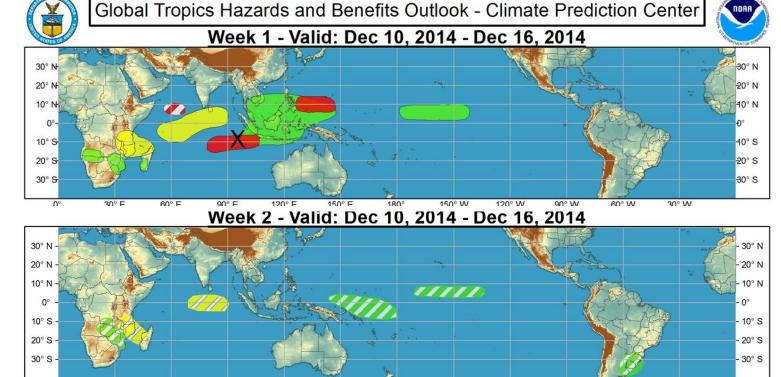
Review of anomalous convection





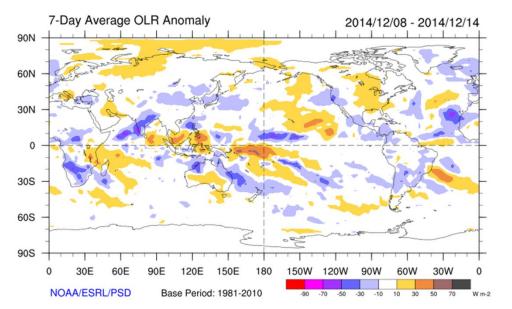
Tropical cyclone Bakung was short lived during the past week

Outlook Review



Cool shading More clouds/rain

Warm shading Less clouds/rain



Synopsis of Climate Modes

ENSO:

• ENSO-neutral conditions currently remain in place. There is a 65% chance that El Niño conditions will be present during the Northern Hemisphere winter and last into spring 2015.

MJO and other subseasonal tropical variability:

- The MJO weakened during the past week although a fast, upper-level signal is still evident.
- Most dynamical model MJO index forecasts depict a weak signal during Week-1 with increase in amplitude in the Indian Ocean during Week-2.

Extratropics:

- A pattern shift appears underway during the Week-2 period with more ridging off the West coast and troughing across the eastern CONUS.
- AO tending closer to zero/weakly negative later during Week-2.
- It is quite difficult to ascertain impacts to the U.S. thereafter until we see if and how organized renewed enhanced convection in the Indian Ocean becomes during Week-2.

Y

Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Dec 24, 2014 - Dec 30, 2014



Confidence Produced: 12/16/2014
High Moderate Forecaster: Gottschalck

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.

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.









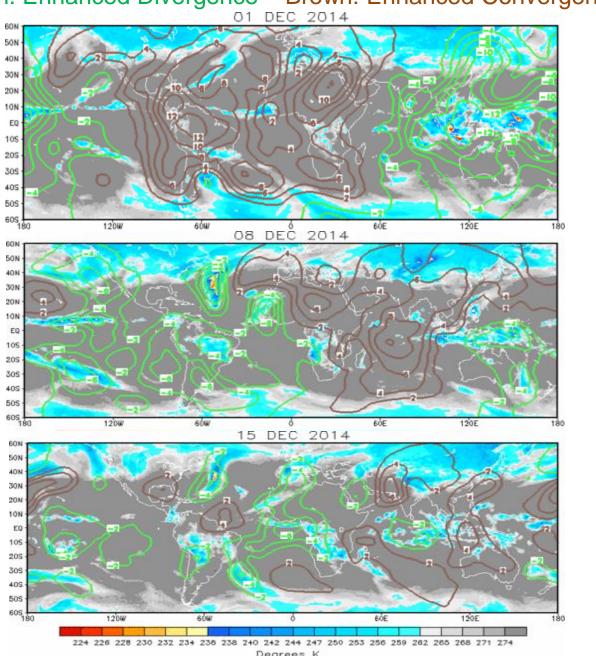


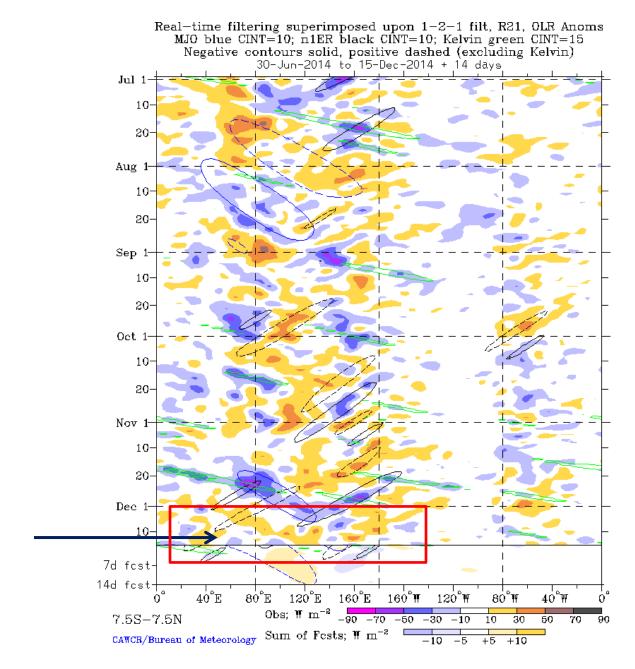




IR Satellite & 200-hpa Velocity Potential Anomalies

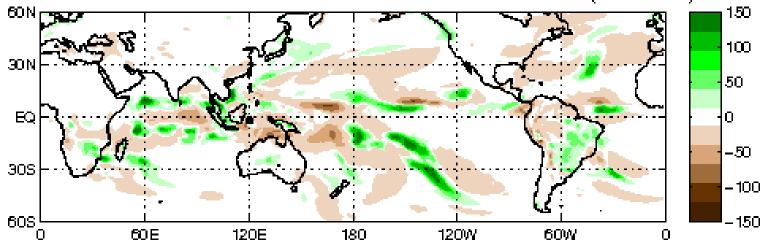
Green: Enhanced Divergence Brown: Enhanced Convergence



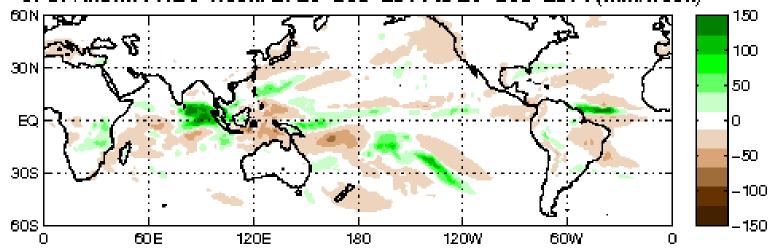


Weak signals from subseasonal modes of variability

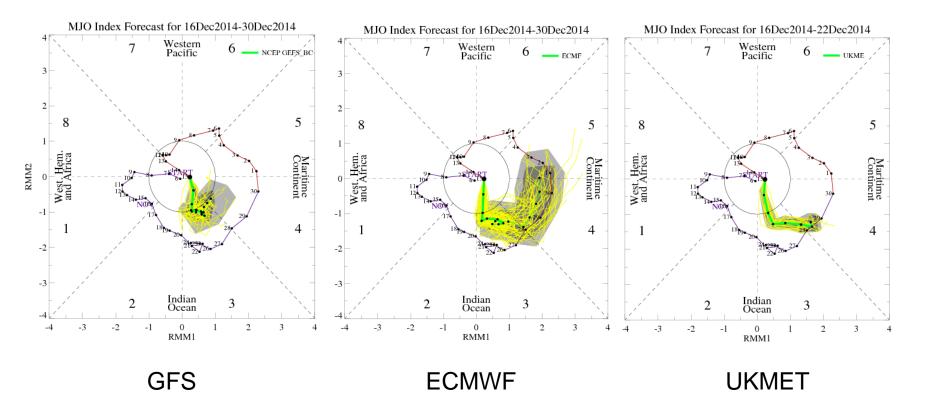
CFS: Anom. PREC Week: 1: 16-Dec-2014 to 22-Dec-2014 (mm/week)

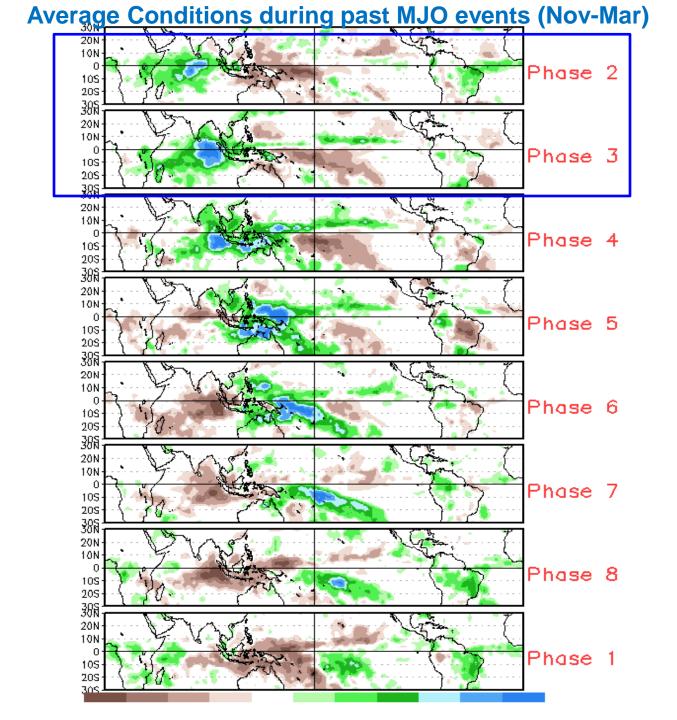


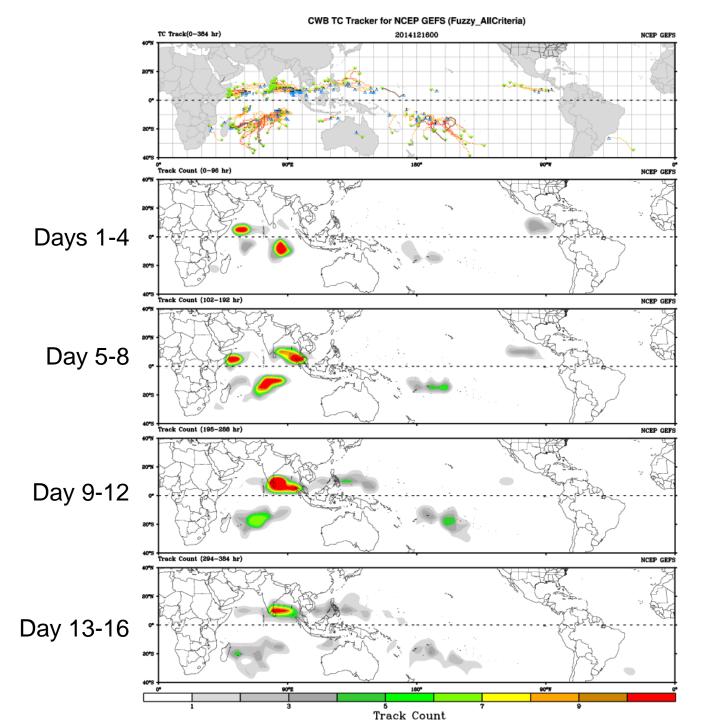
CFS: Anom. PREC Week: 2: 23-Dec-2014 to 29-Dec-2014 (mm/week)



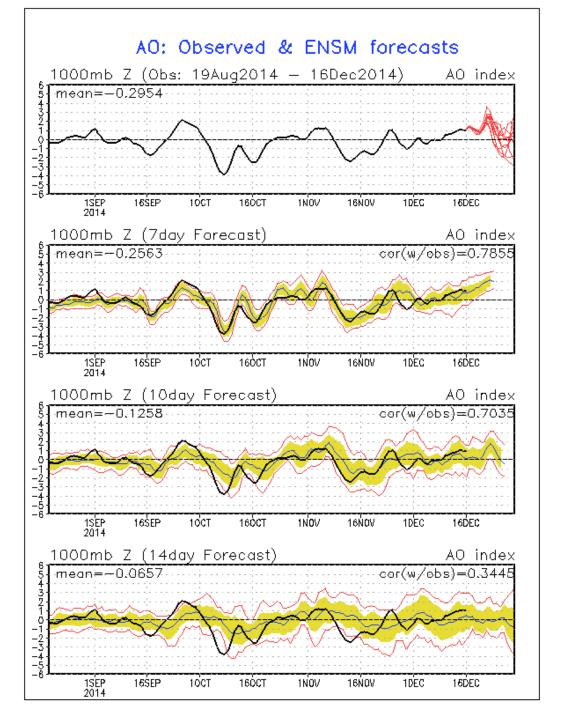
MJO Observation/Forecast

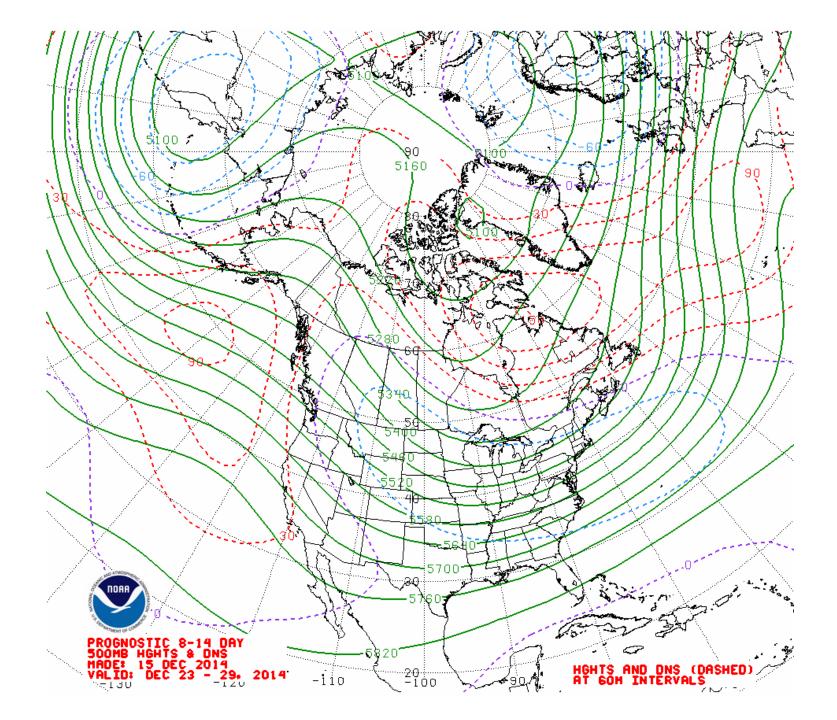




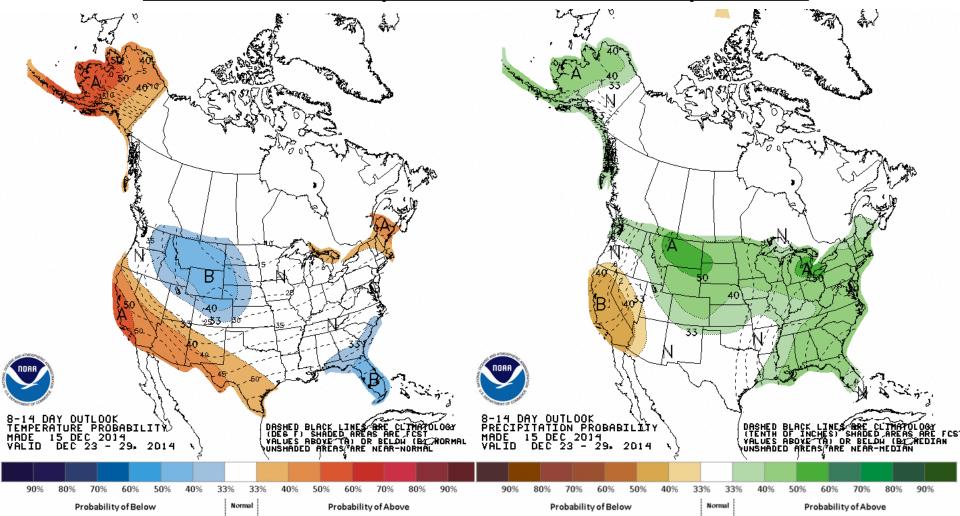


Connections to U.S. Impacts





Week 2 - Temperature and Precipitation



Y

Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Dec 24, 2014 - Dec 30, 2014



Confidence Produced: 12/16/2014
High Moderate Forecaster: Gottschalck

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