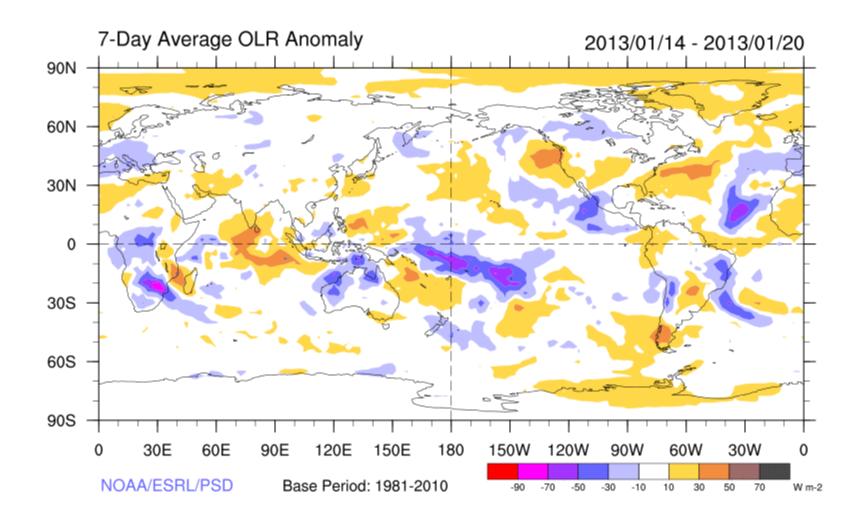
Global Tropics Hazards And Benefits Outlook January 22, 2013

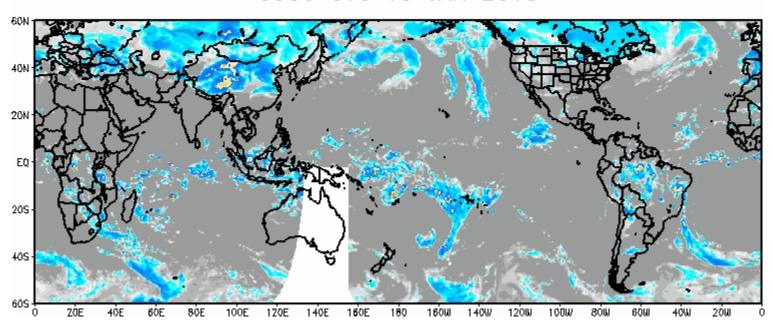
Jon Gottschalck

<u>Outline</u>

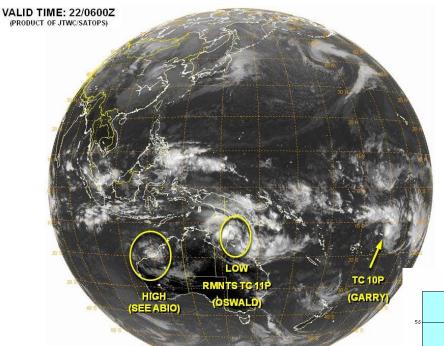
- 1. Review of Recent Conditions
- 2. Synopsis of Climate Modes
- 3. GTH Outlook and Forecast Discussion

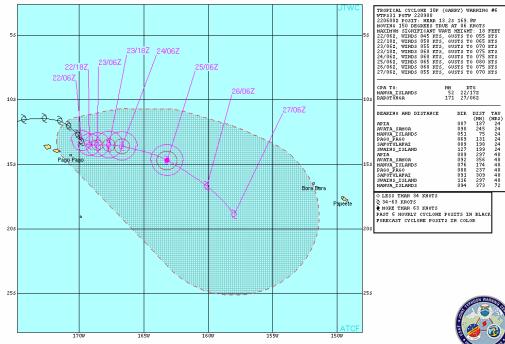


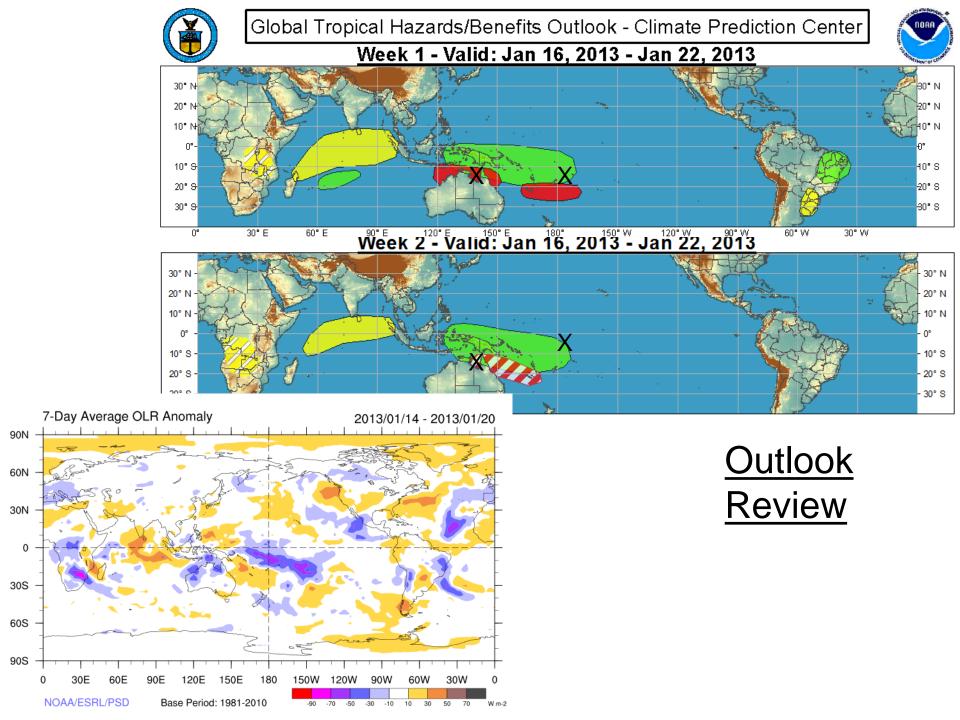
IR Temperatures 0900 UTC 19 JAN 2013



Tropical Cyclone Review







Synopsis of Climate Modes

ENSO:

• ENSO-neutral conditions are favored to continue through Northern Hemisphere spring 2013

MJO and other subseasonal variability:

- The MJO remains active and continues to propagate eastward across the Pacific
- Dynamical models and statistical tools are in fair agreement that the MJO index is likely to propagate through phase 7 and into phase 8 over the next two weeks
- Westward propagating convection associated with an equatorial Rossby wave and fastermoving eastward propagating atmospheric Kelvin waves continue to impact evolution of the MJO index

Extratropics:

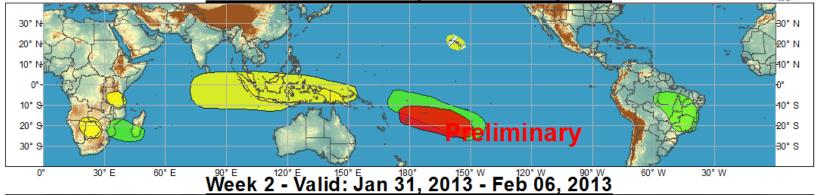
- Large spread in AO/NAO forecasts over next two weeks
- PNA is forecast to be neutral to positive over next two weeks
- Tropical forcing of the mid-latitudes will continue to be important into February

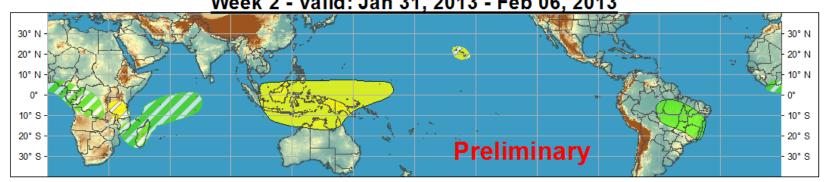


Global Tropical Hazards/Benefits Outlook - Climate Prediction Center



Week 1 - Valid: Jan 24, 2013 - Jan 30, 2013





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

Tropical Cyclone Formation Development of a tropical cyclone that eventually reaches tropical storm/c

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.

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.





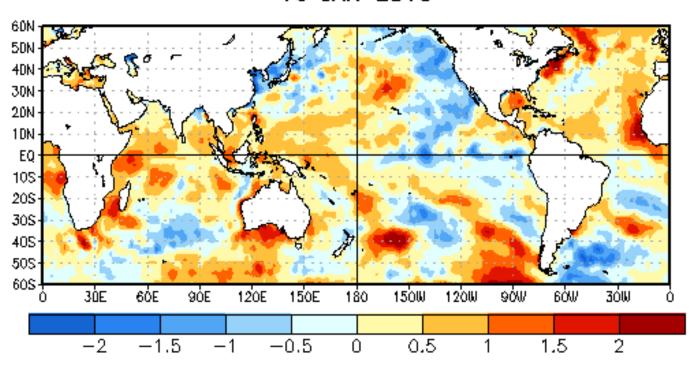






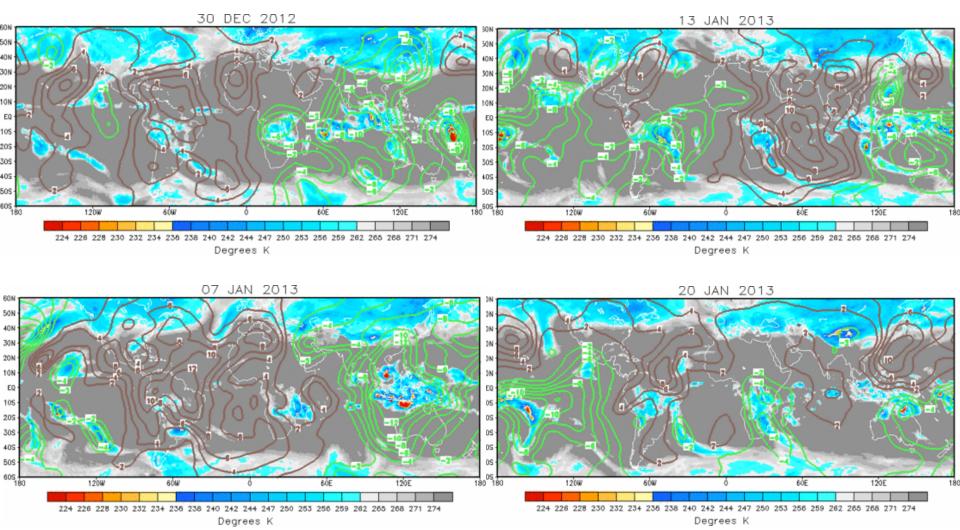
SST Observations

SST Anomalies (°C) 16 JAN 2013

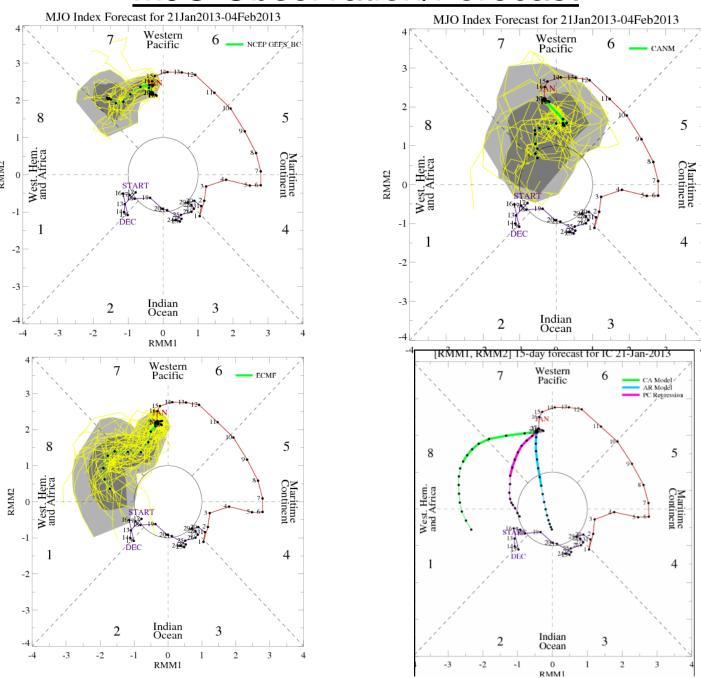


IR Satellite & 200-hpa Velocity Potential Anomalies

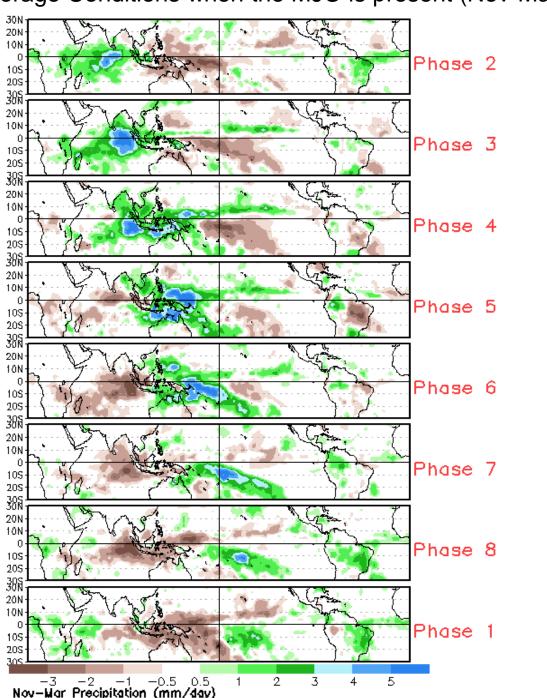
Green: Enhanced Divergence Brown: Enhanced Convergence



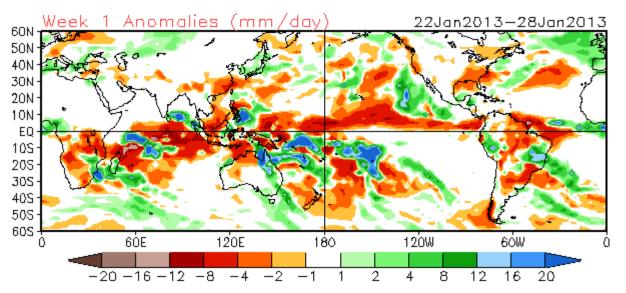
MJO Observation/Forecast

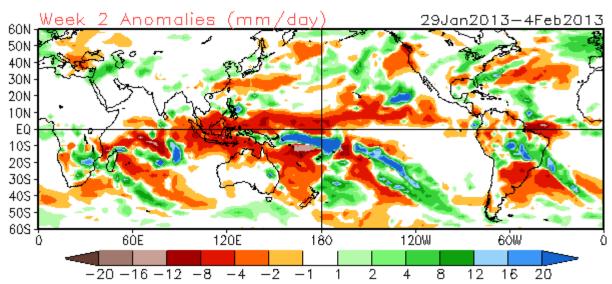


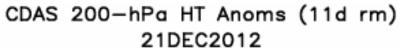
Average Conditions when the MJO is present (Nov-Mar)

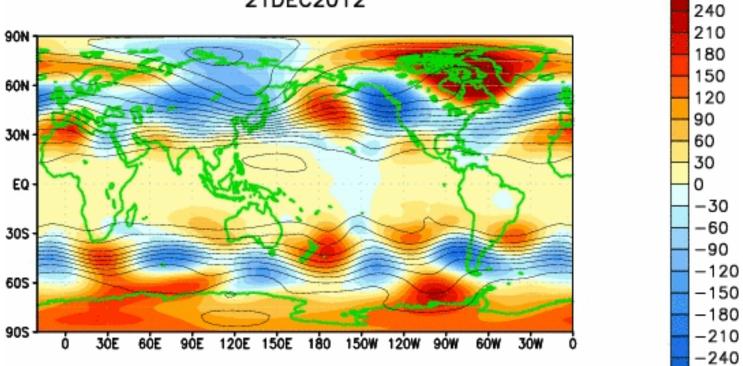


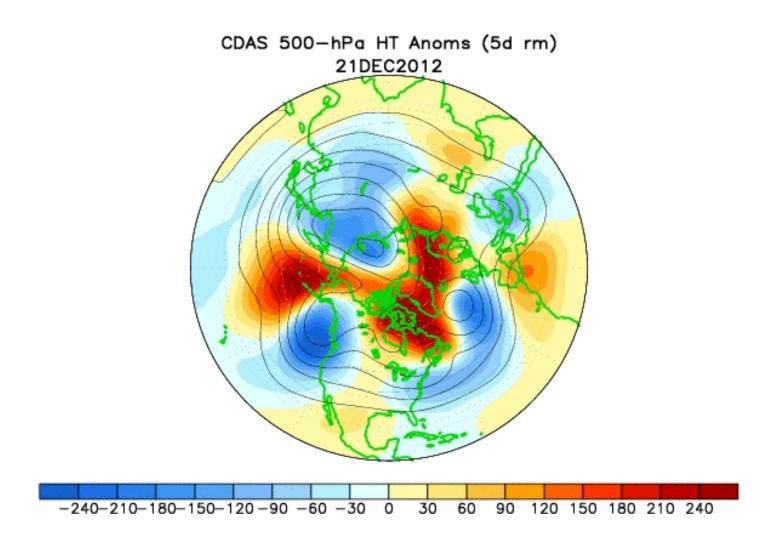
CFSv2 Weeks 1 & 2 Precipitation 16 Member Ensemble Mean Forecast from 21Jan2013

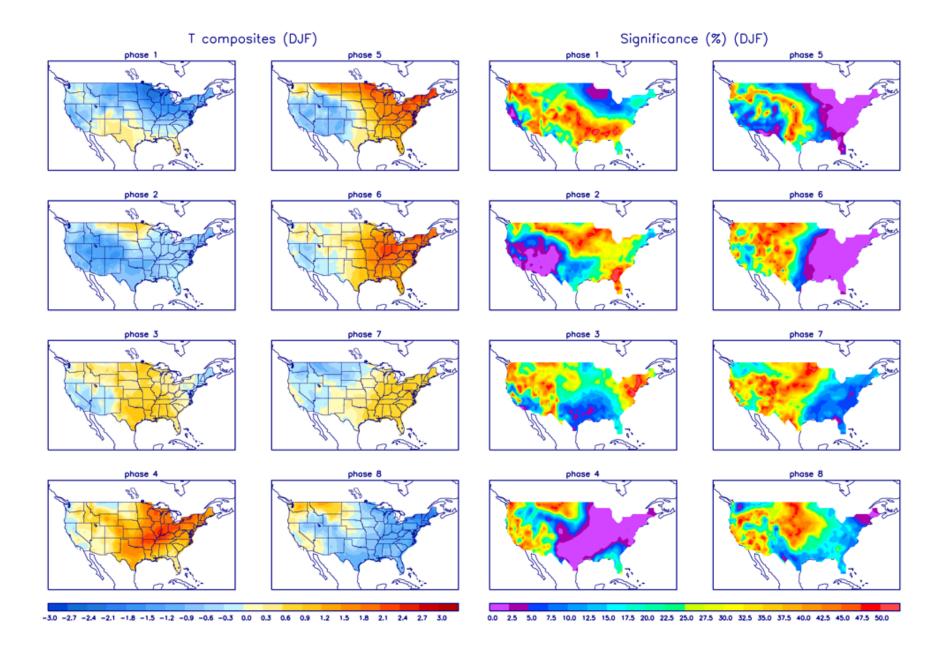


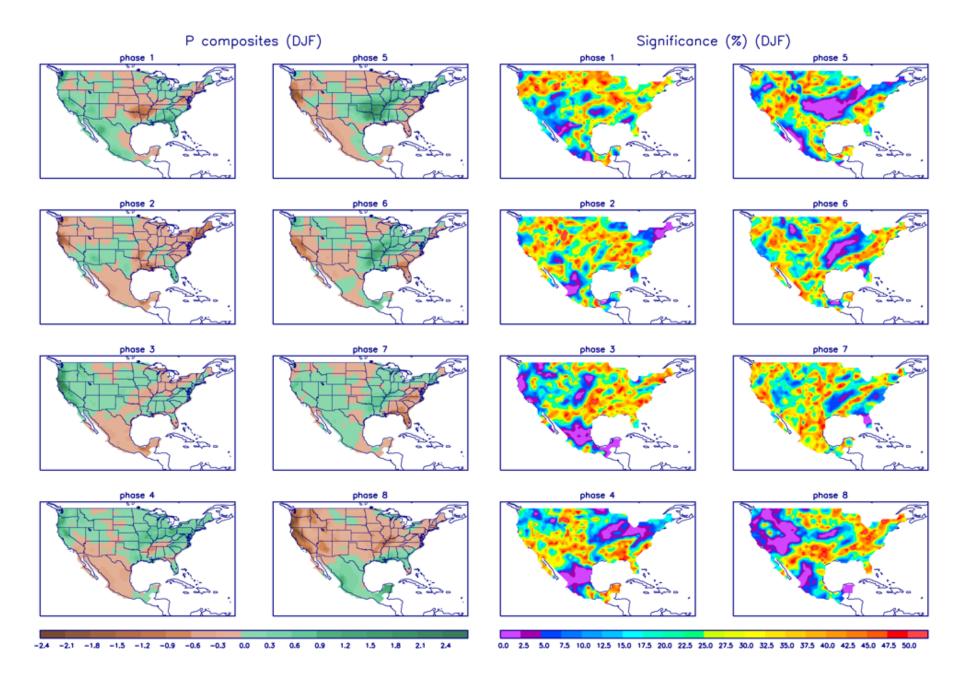


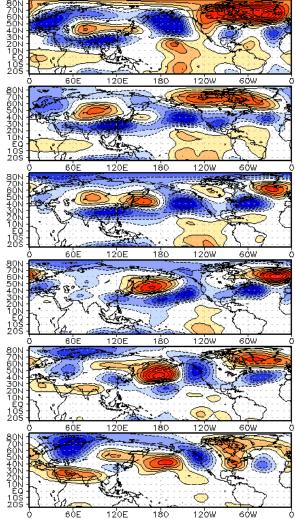


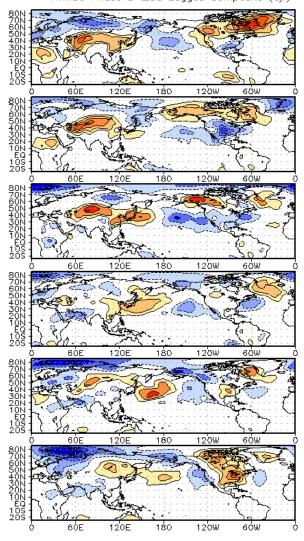


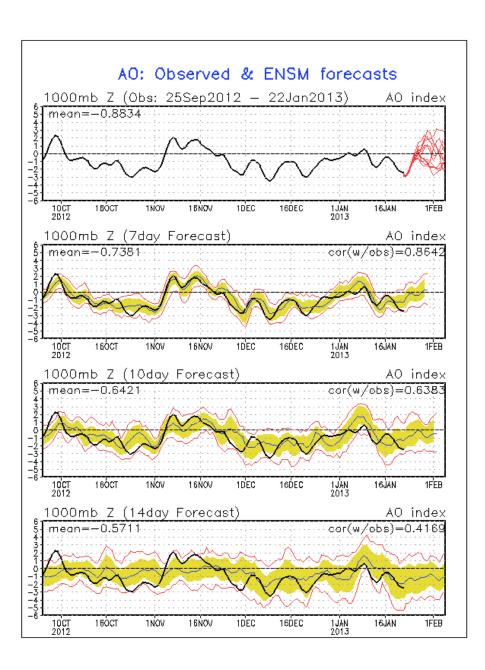


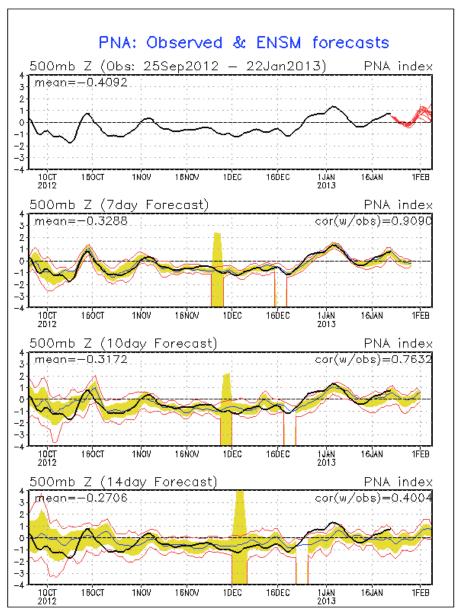




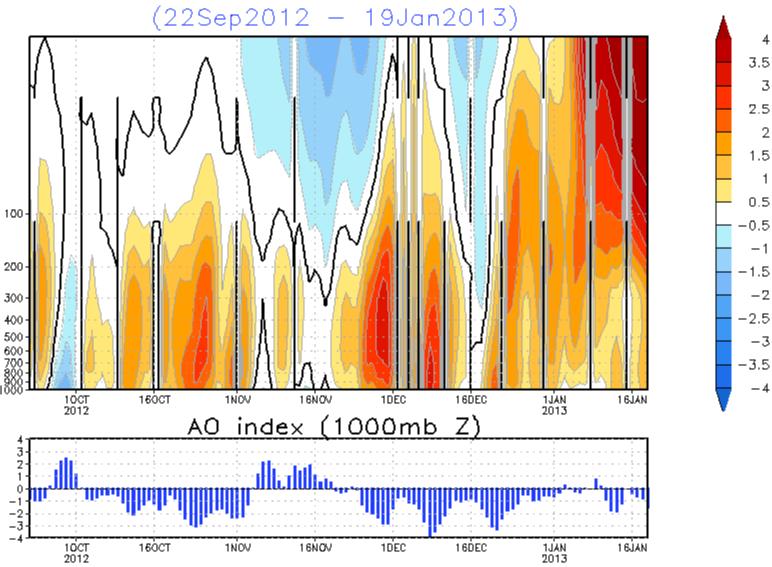




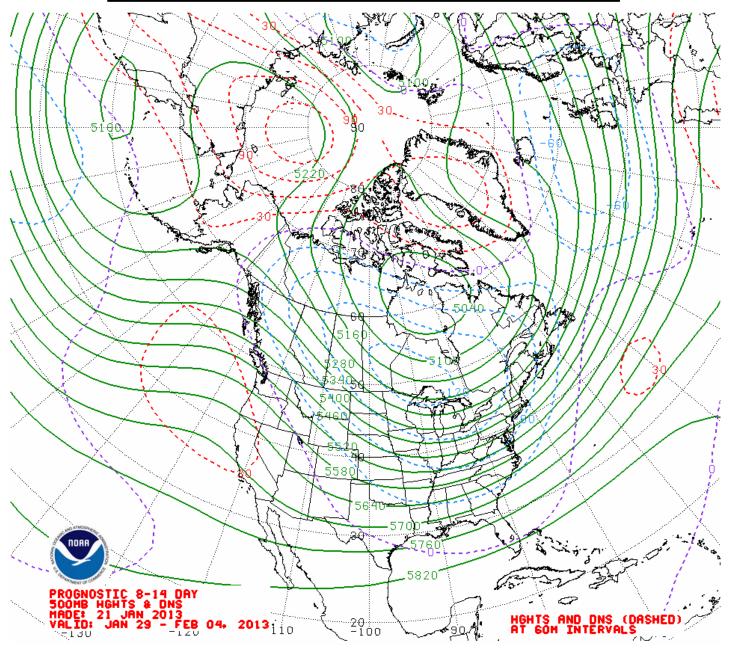




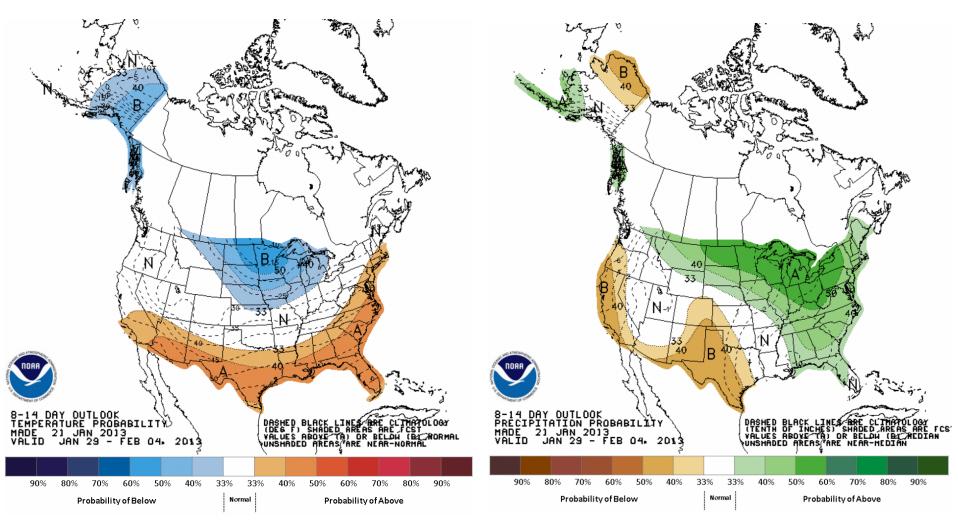
Normalized GPH anomaly (65°N-90°N)



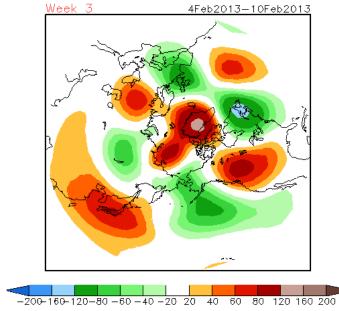
Week 2 500-hPa Manual Chart

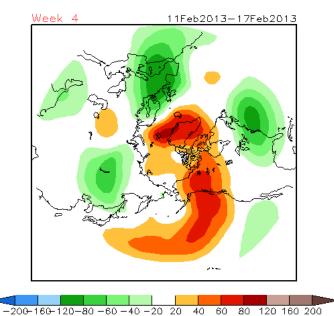


Week 2 – Temperature and Precipitation



CFSv2 Weeks 3 & 4 500 hPa Z Anomalies (m)
16 Member Ensemble Mean Forecast from 20Jan2013



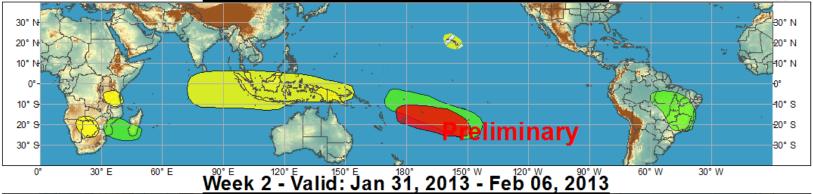


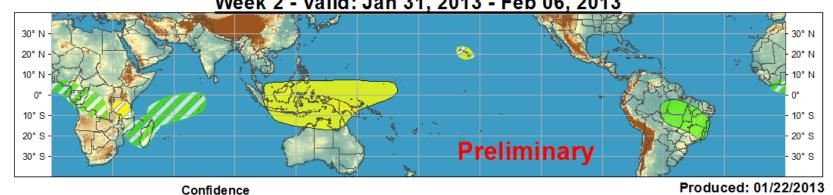


Global Tropical Hazards/Benefits Outlook - Climate Prediction Center



Week 1 - Valid: Jan 24, 2013 - Jan 30, 2013





Forecaster: Gottschalck
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.

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.









