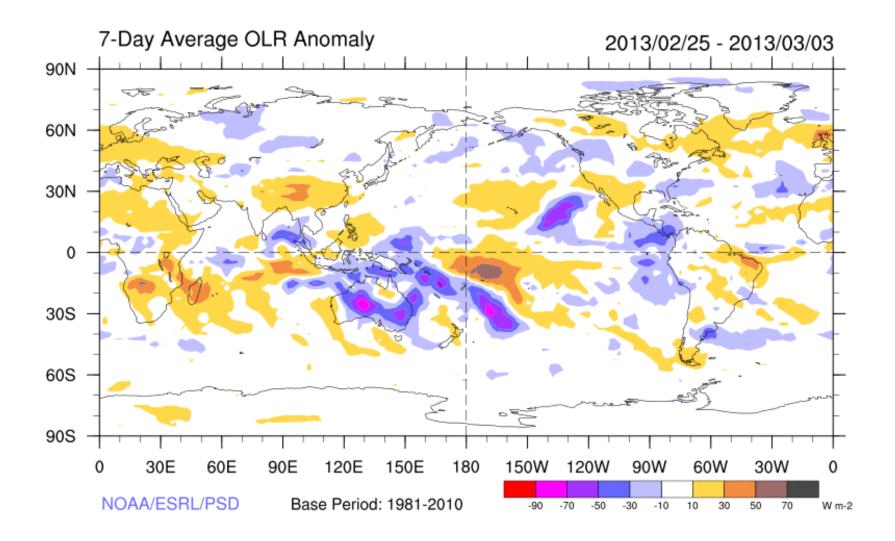
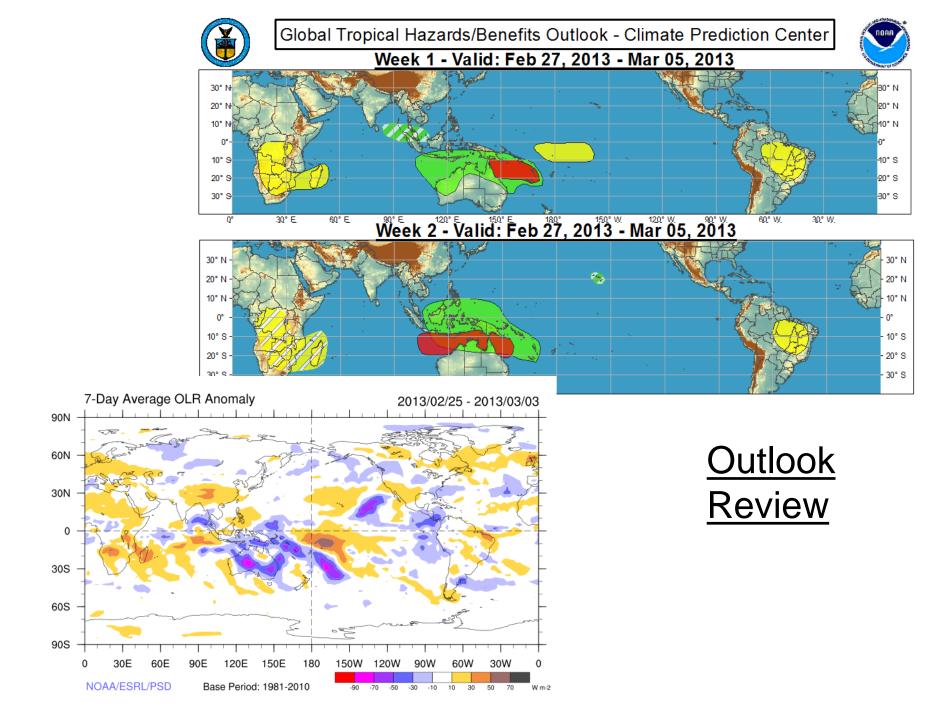
Global Tropics Hazards And Benefits Outlook March 5, 2013

Steve Baxter

<u>Outline</u>

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





Synopsis of Climate Modes

ENSO:

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

MJO and other subseasonal tropical variability:

- The MJO remained active with the enhanced phase entering the western Pacific during the past week. There is a temporary pause in phase 6 currently due to other subseasonal tropical modes.
- There is some spread in the dynamical model MJO index forecasts but the consensus is for a slowly propagating signal moving eastward into phase 7 during the period. Westward moving equatorial Rossby waves are expected to be important over the next two weeks as well.
- Statistical forecasts generally support slow eastward movement and a gradual decrease in amplitude.

Extratropics:

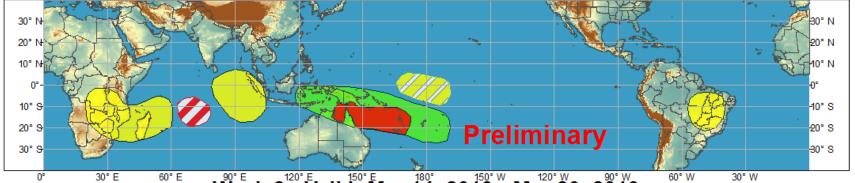
- High latitude blocking (-AO / -NAO) playing a large role across the central and eastern U.S. despite MJO forcing
- Circulation across the Pacific has been more consistent with the MJO
- •The current forecast evolution of the MJO supports an extratropical response in phase with the negative AO



Global Tropical Hazards/Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Mar 14, 2013 - Mar 20, 2013



Confidence Produced: 03/05/2013

High Moderate Forecaster: Baxter

Tropical Cyclone FormationDevelopment 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.



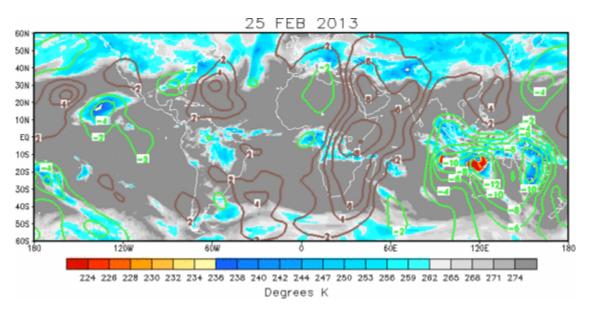


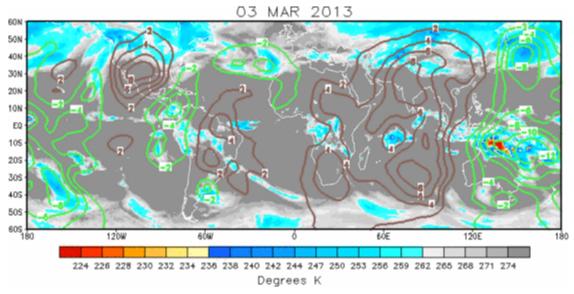




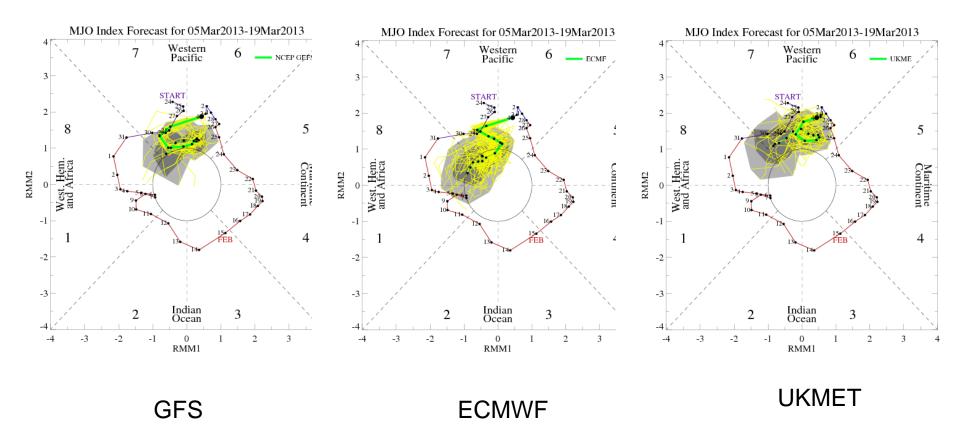
IR Satellite & 200-hpa Velocity Potential Anomalies

Green: Enhanced Divergence Brown: Enhanced Convergence

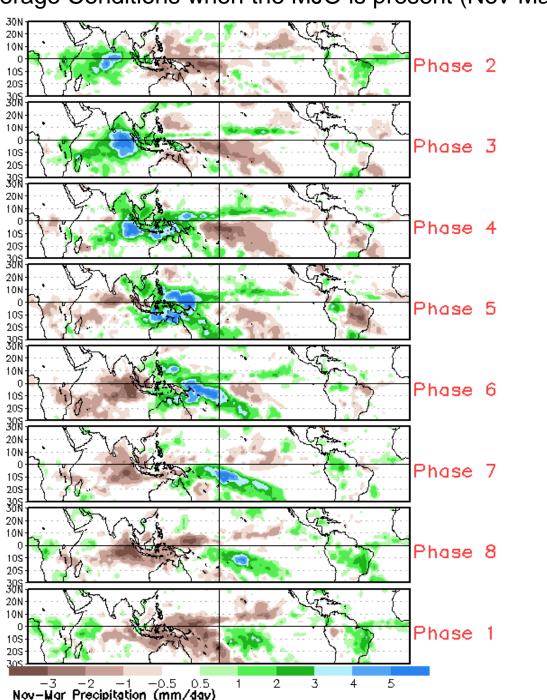




MJO Observation/Forecast

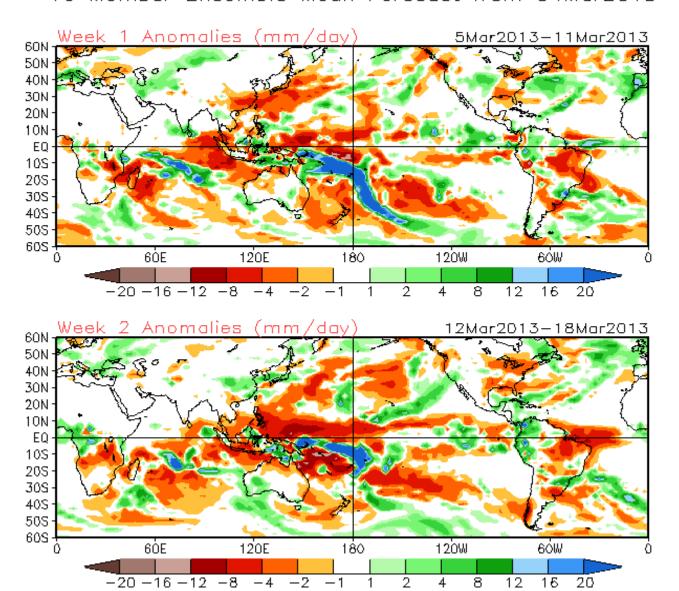


Average Conditions when the MJO is present (Nov-Mar)

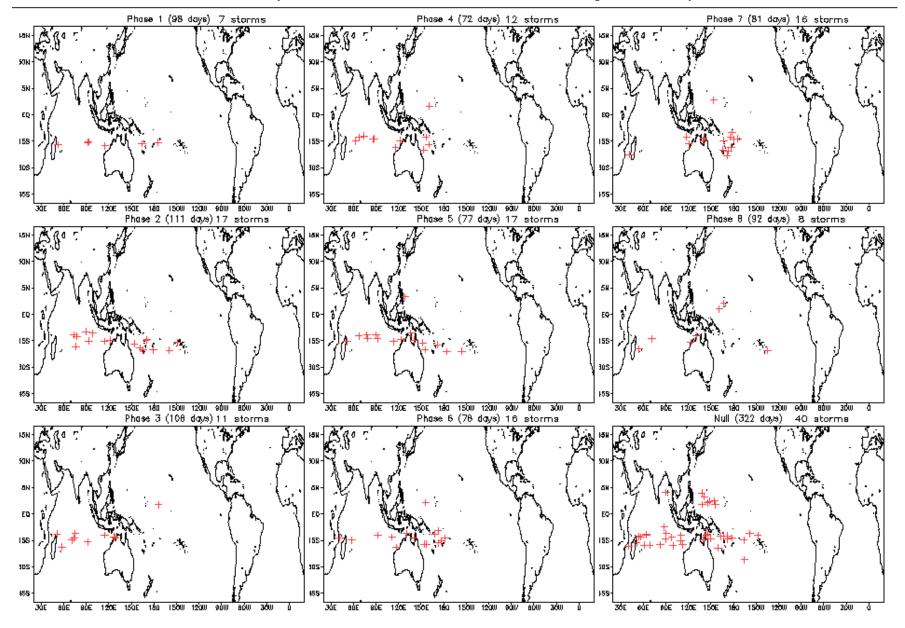


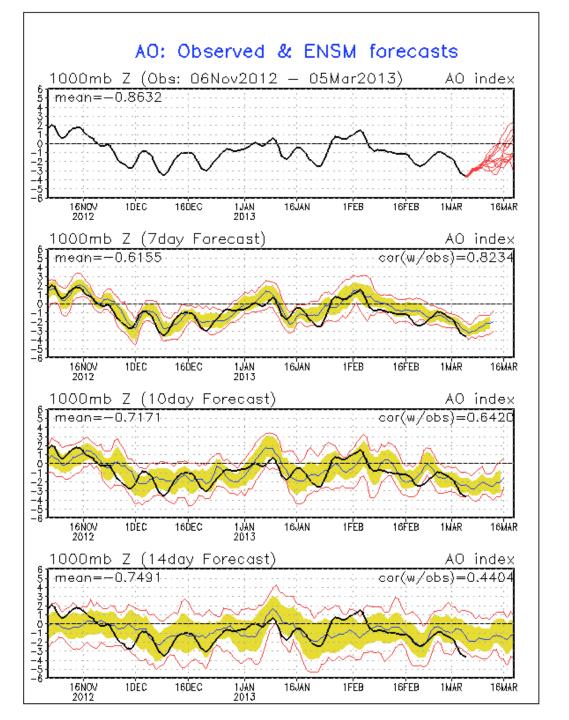
CFSv2 Weeks 1 & 2 Precipitation

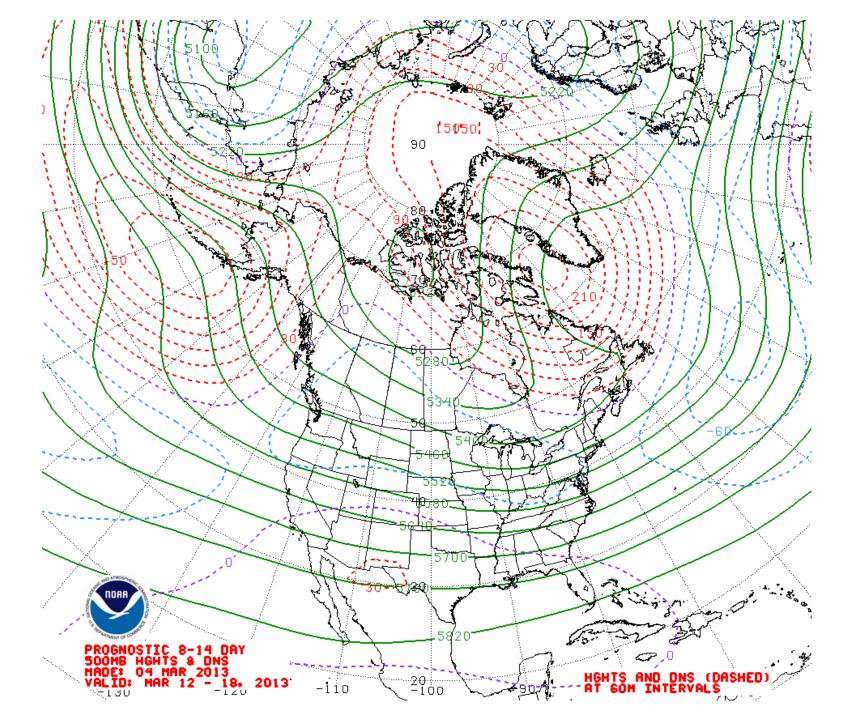
16 Member Ensemble Mean Forecast from 04Mar2013



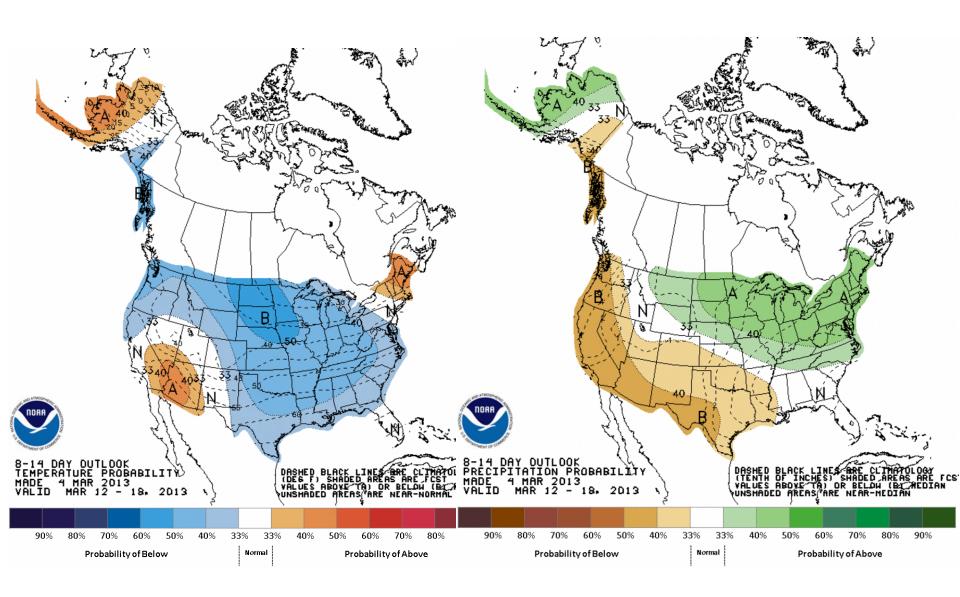
March Tropical Storm Formation by MJO phase

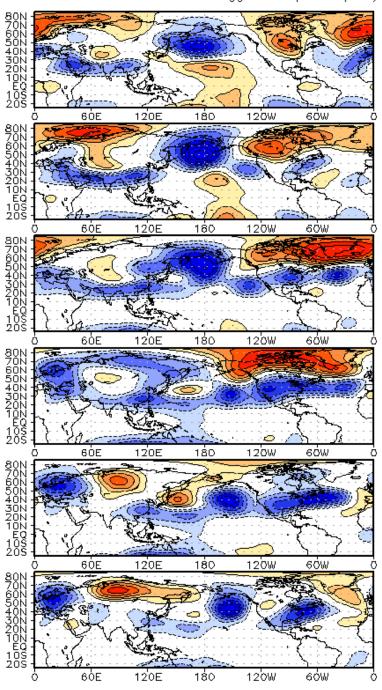






Week 2 – Temperature and Precipitation



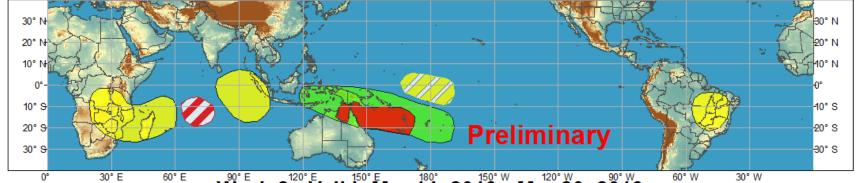




Global Tropical Hazards/Benefits Outlook - Climate Prediction Center



Week 1 - Valid: Mar 07, 2013 - Mar 13, 2013



Week 2 - Valid: Mar 14, 2013 - Mar 20, 2013



Confidence Produced: 03/05/2013

High Moderate Forecaster: Baxter

Tropical Cyclone FormationDevelopment of a tropical cyclone that eventually reaches tropical storm/cyclone strength.

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