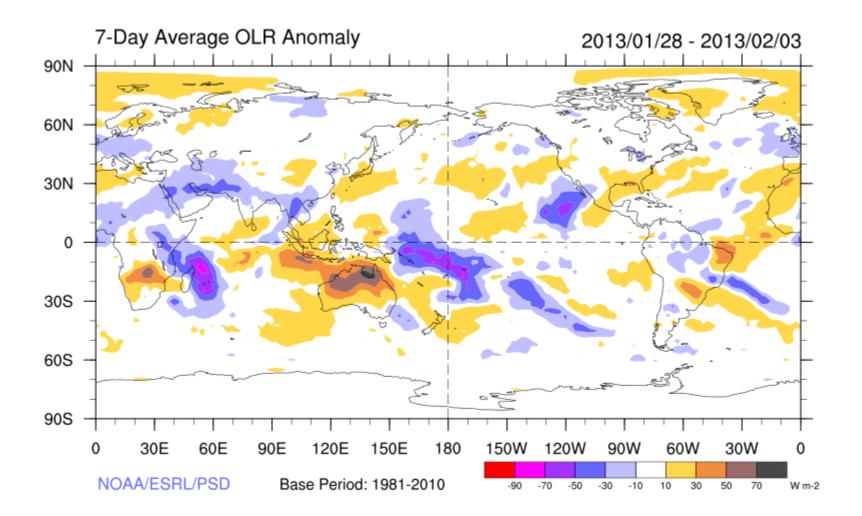
# Global Tropics Hazards And Benefits Outlook <u>February 5, 2013</u>

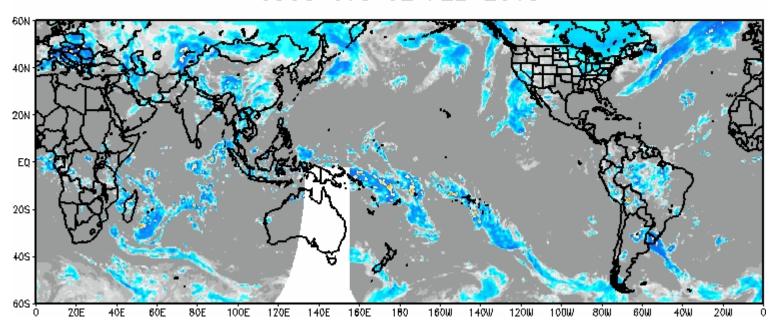
Jon Gottschalck

## **Outline**

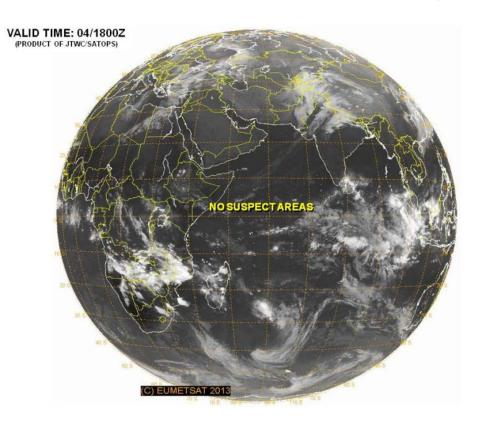
- 1. Review of Recent Conditions
- 2. Synopsis of Climate Modes
- 3. GTH Outlook and Forecast Discussion

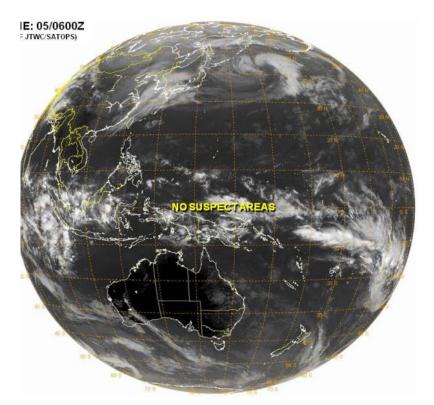


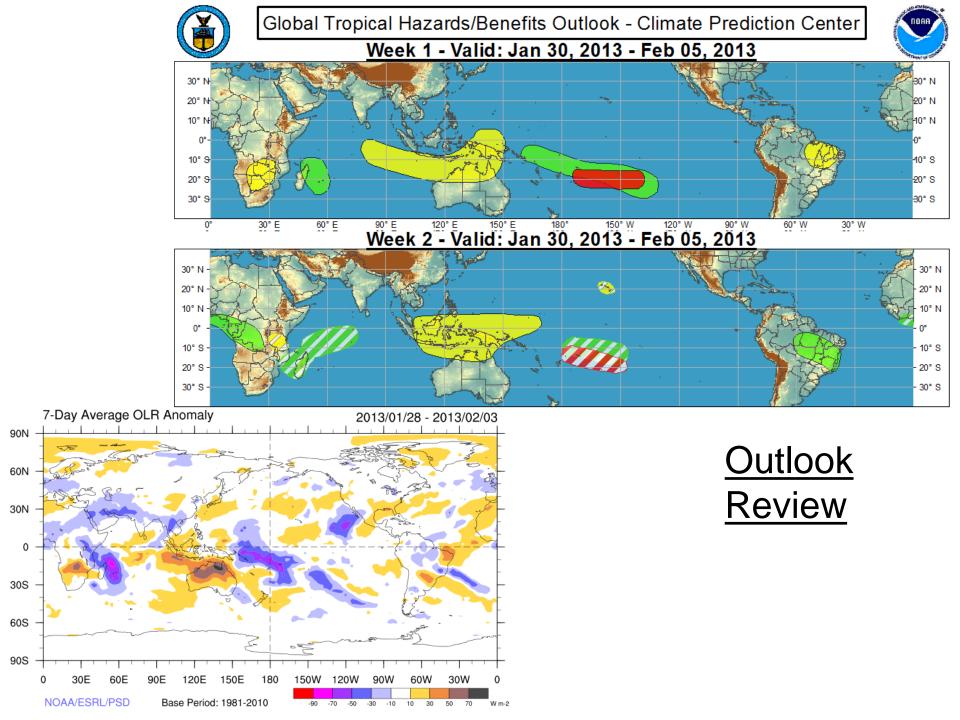
#### IR Temperatures 0900 UTC 02 FEB 2013



# Tropical Cyclone Review







# Synopsis of Climate Modes

#### **ENSO**:

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

#### MJO and other subseasonal tropical variability:

- The MJO remained active over the past week with more coherent eastward propagation. The enhanced phase is nearing Africa.
- Large spread in dynamical model MJO index forecasts, but we favor continued eastward propagation during the next two weeks with the enhanced phase entering the Indian Ocean.

#### **Extratropics**:

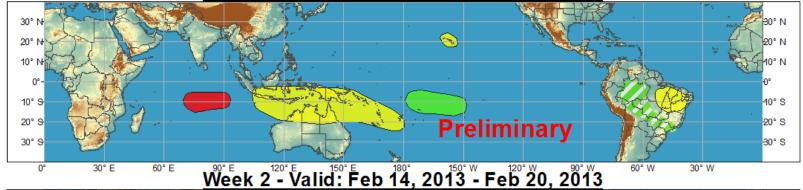
- The forecast MJO evolution would favor a trough across the west on average near or just after mid-February and so an elevated chance for below-normal temperatures across the west.
- Late in February would favor troughing along or near the west coast and a ridge on average across the eastern U.S.

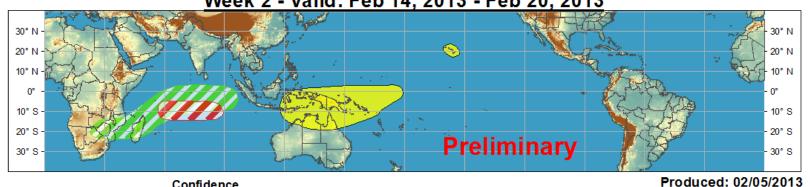


#### Global Tropical Hazards/Benefits Outlook - Climate Prediction Center



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





Confidence Produced: 02/05/2013

High Moderate 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.





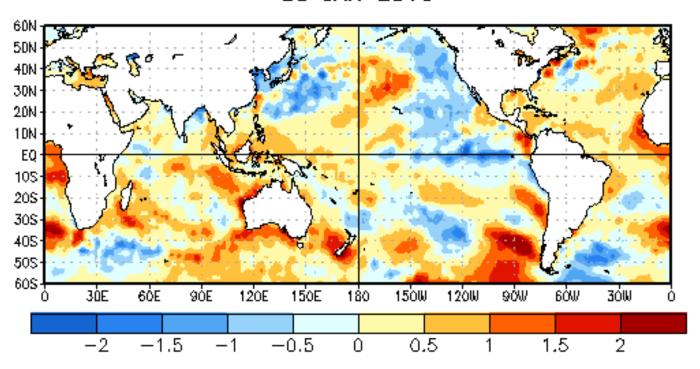






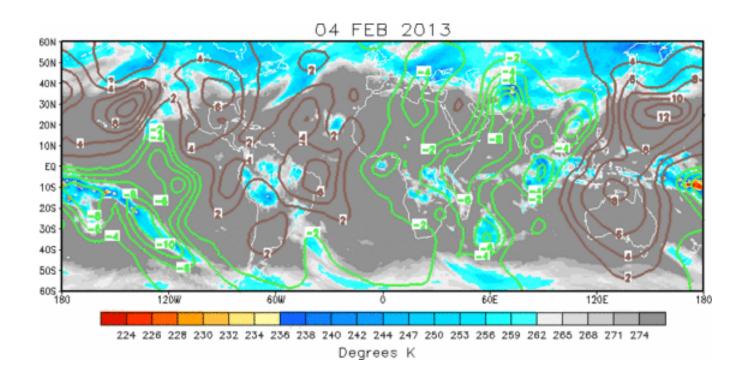
## **SST Observations**

SST Anomalies (°C) 30 JAN 2013

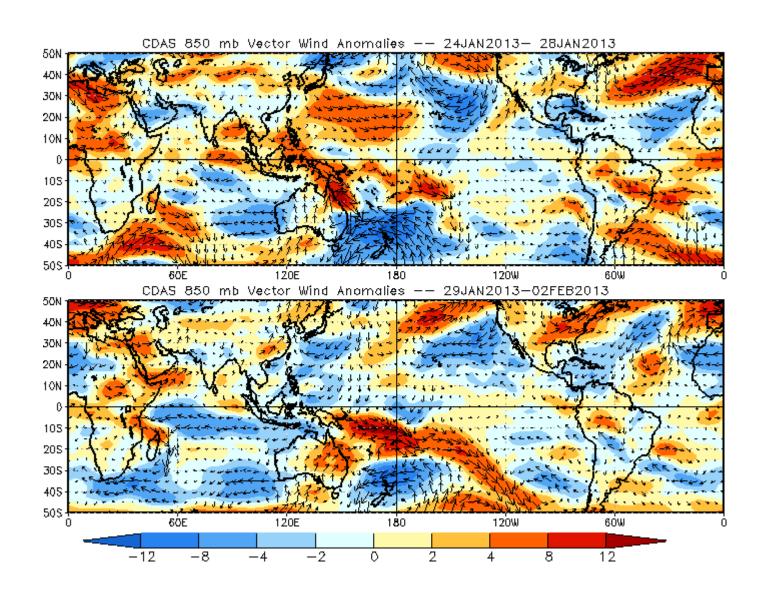


#### IR Satellite & 200-hpa Velocity Potential Anomalies

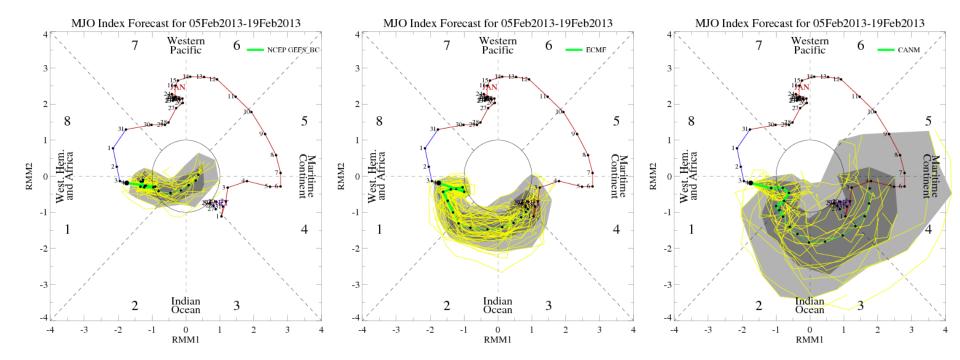
Green: Enhanced Divergence Brown: Enhanced Convergence



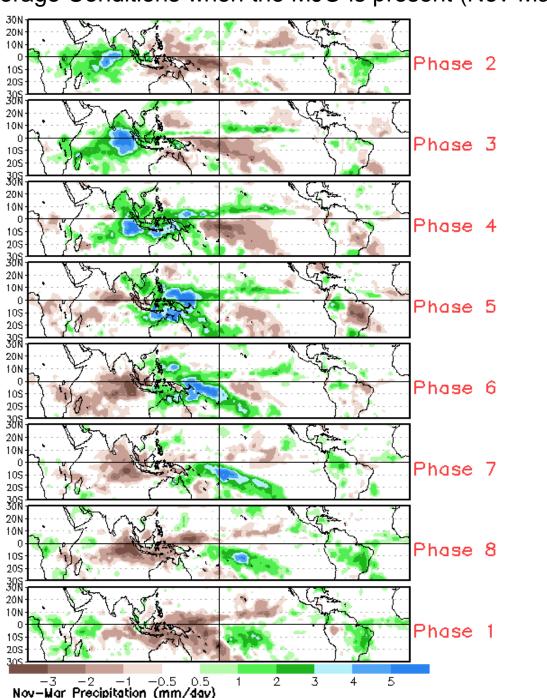
## 850-hPa winds

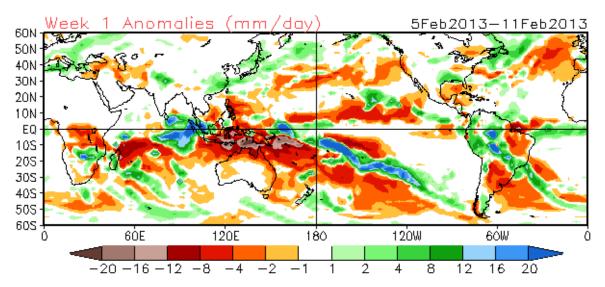


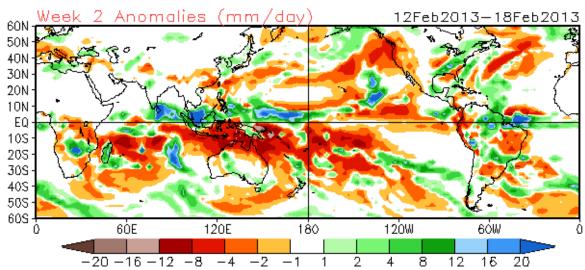
## MJO Observation/Forecast



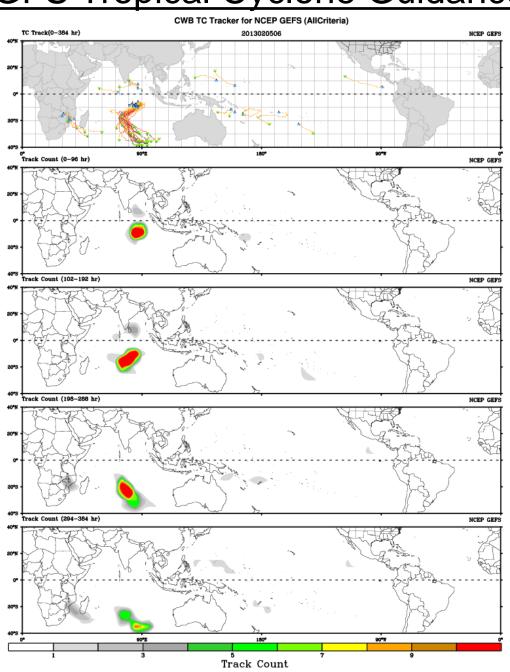
Average Conditions when the MJO is present (Nov-Mar)



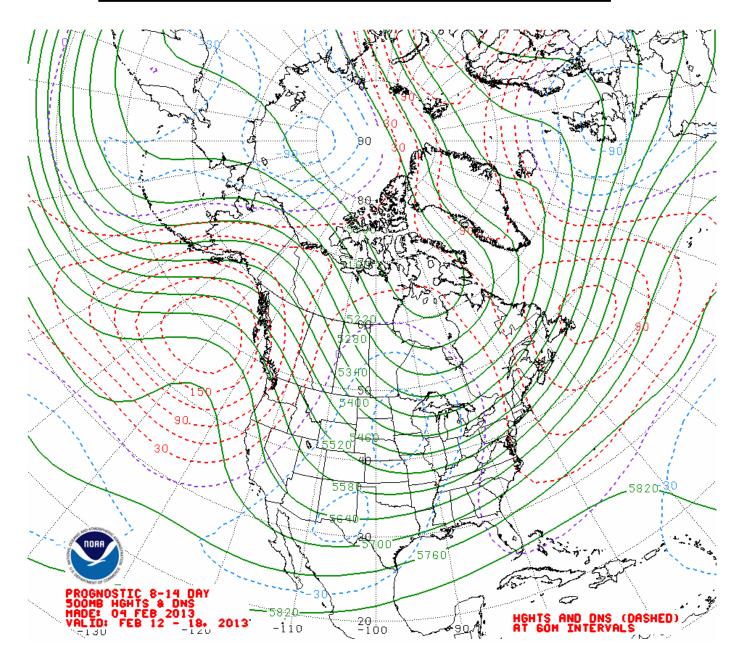




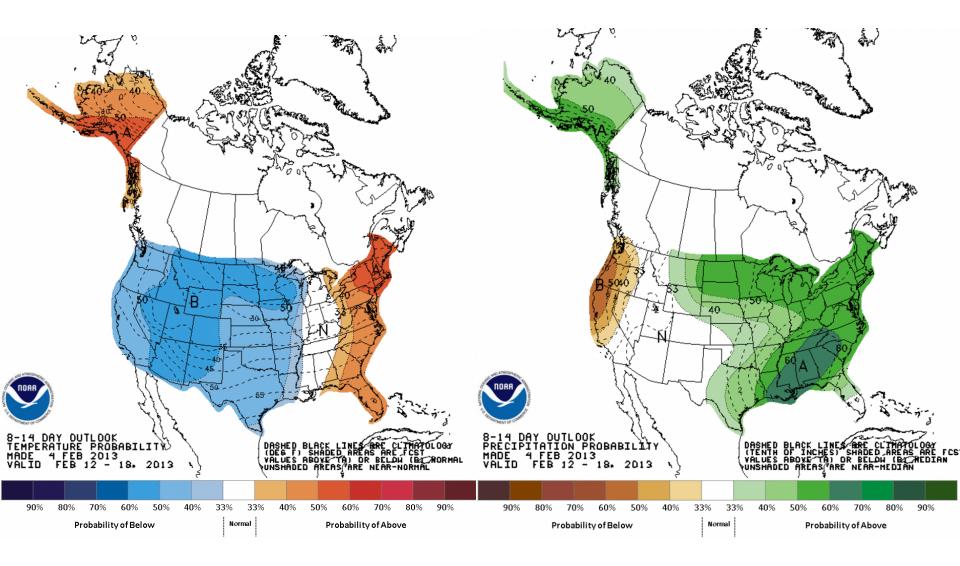
## GFS Tropical Cyclone Guidance

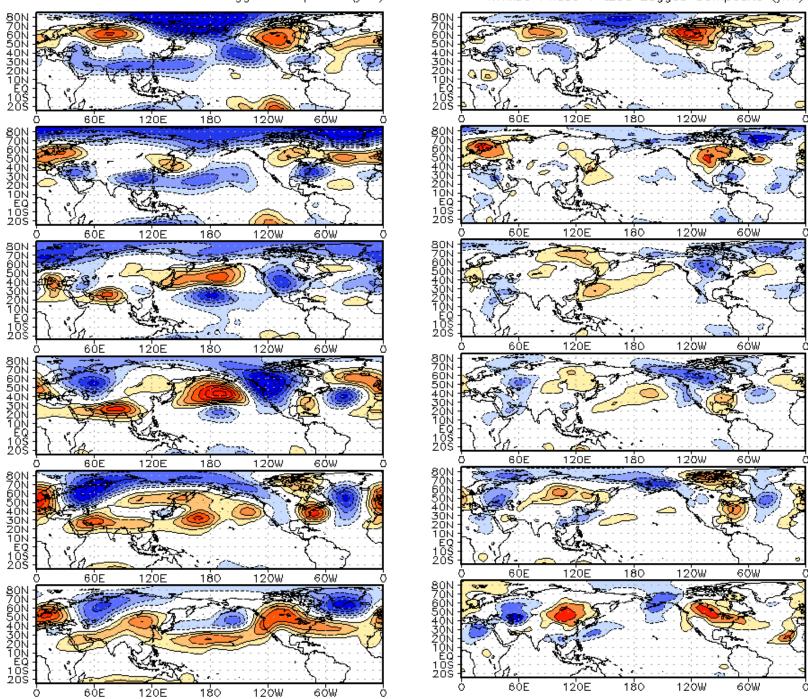


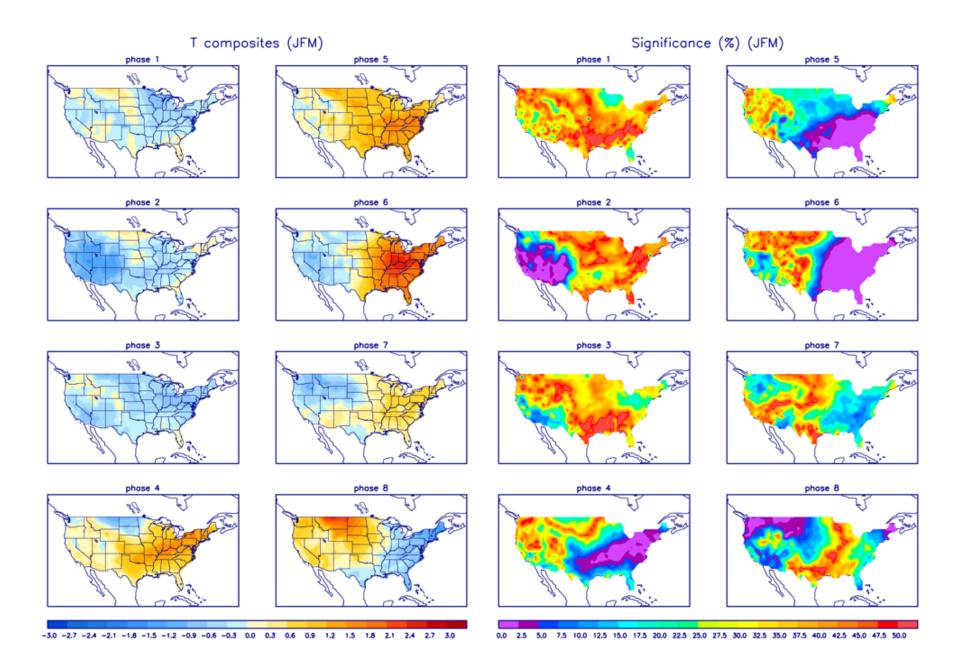
## Week 2 500-hPa Manual Chart

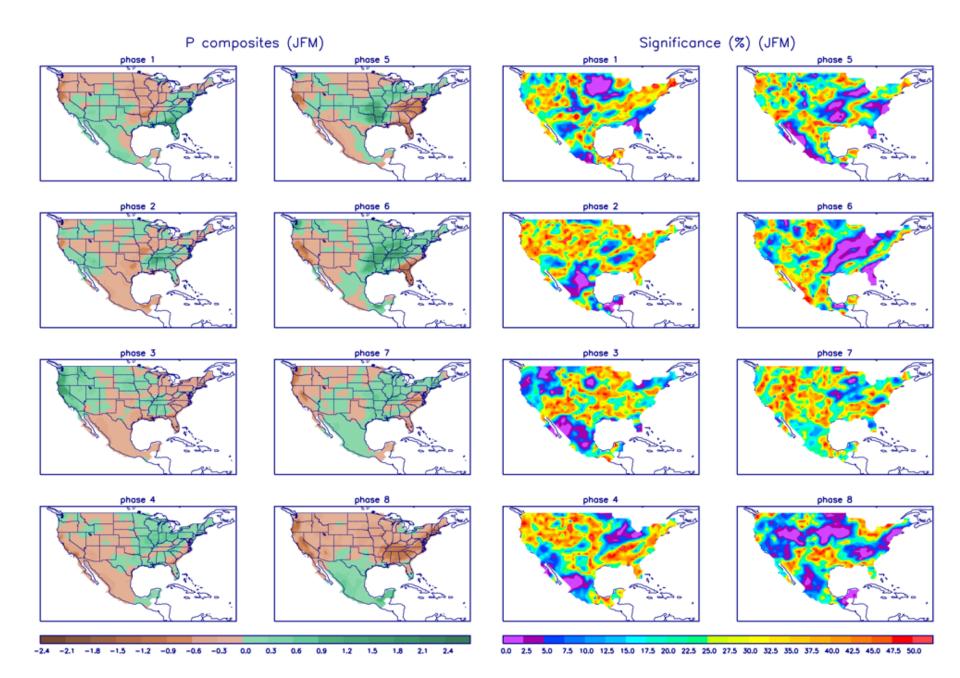


## Week 2 – Temperature and Precipitation







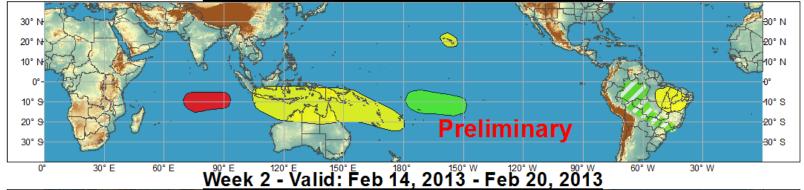


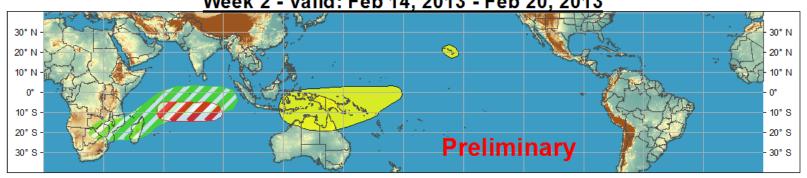


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### Normalized GPH anomaly (65°N-90°N)

