

Global Tropics Hazards And Benefits Outlook

January 15, 2013

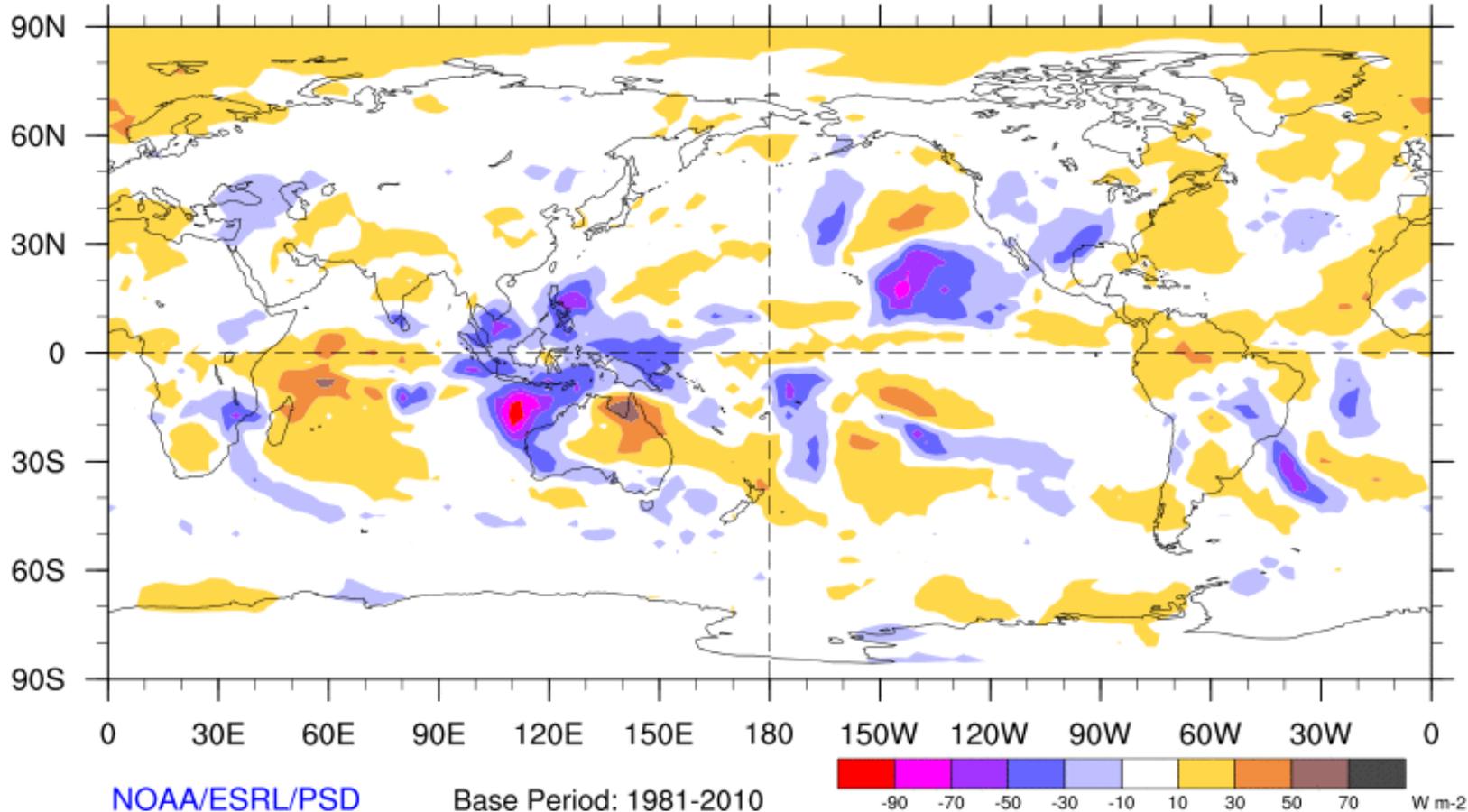
Steve Baxter

Outline

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

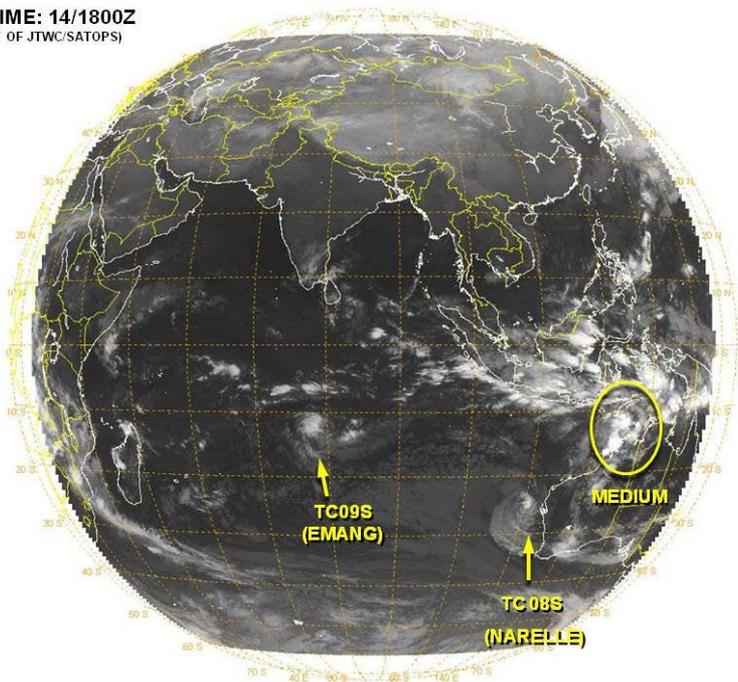
7-Day Average OLR Anomaly

2013/01/07 - 2013/01/13

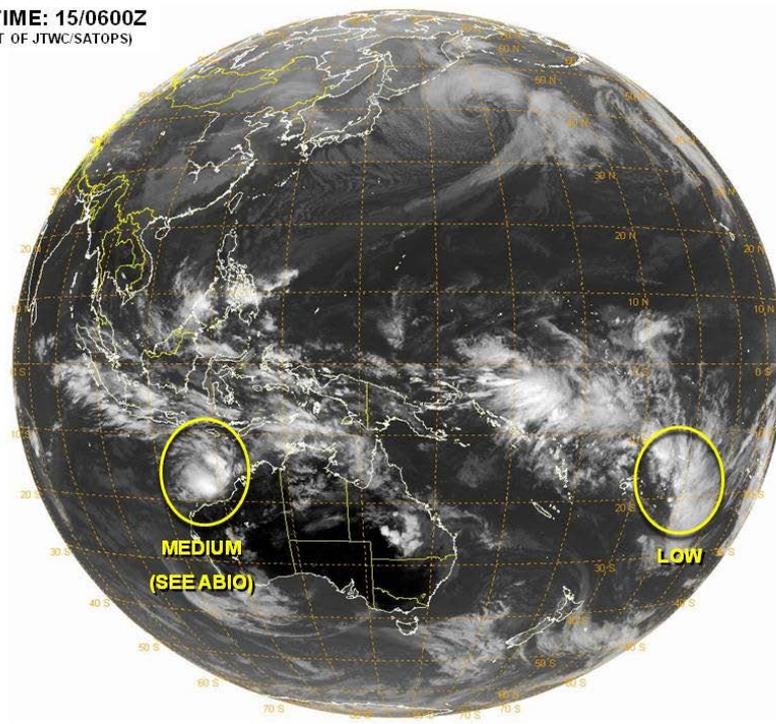


Tropical Cyclone Review

VALID TIME: 14/1800Z
(PRODUCT OF JTWC/SATOPS)



VALID TIME: 15/0600Z
(PRODUCT OF JTWC/SATOPS)





Week 1 - Valid: Jan 09, 2013 - Jan 15, 2013

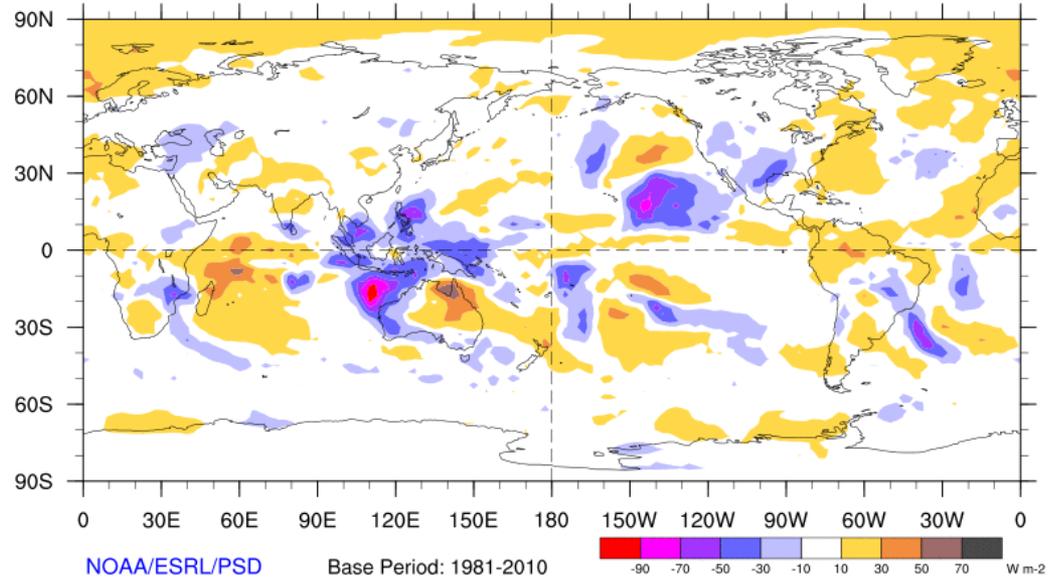


Week 2 - Valid: Jan 09, 2013 - Jan 15, 2013



7-Day Average OLR Anomaly

2013/01/07 - 2013/01/13



Outlook Review

Synopsis of Climate Modes

ENSO:

- ENSO-neutral conditions continue and ENSO-neutral is favored during the Northern Hemisphere winter 2012-13.

MJO and other subseasonal variability:

- The MJO remains strong and continues to propagate eastward into the Pacific.
- Dynamical models and statistical tools are in fair agreement that the MJO is likely to propagate through phase 7 and into phase 8 over the next two weeks.
- There is still some westward propagating convection associated with an equatorial Rossby wave and faster-moving eastward propagating atmospheric Kelvin waves that alter the MJO phase speed as captured by the Wheeler and Hendon index.

Extratropics:

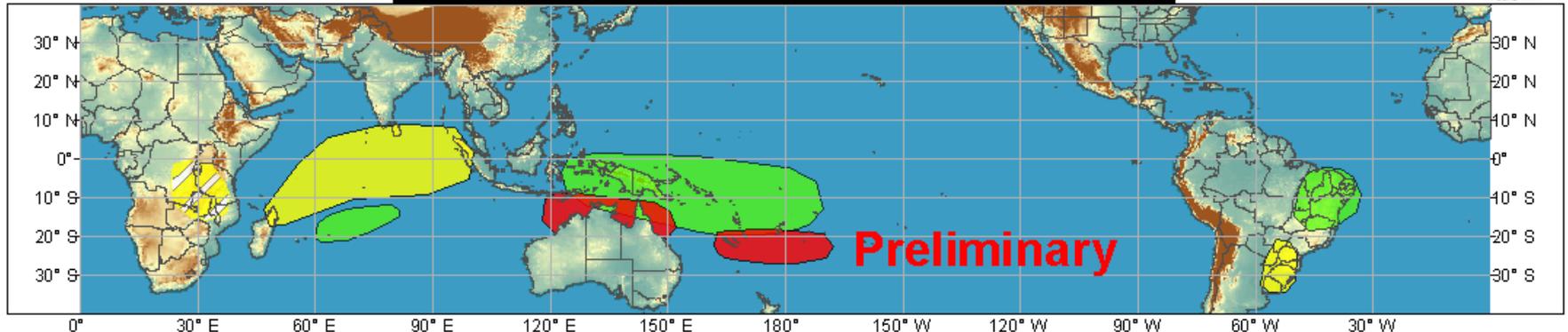
- AO/NAO forecast to be neutral to negative. Additionally, the PNA is forecast to be near neutral. Tropical forcing of the mid-latitudes will continue to be important over the next couple of weeks.



Global Tropical Hazards/Benefits Outlook - Climate Prediction Center



Week 1 - Valid: Jan 17, 2013 - Jan 23, 2013



Week 2 - Valid: Jan 24, 2013 - Jan 30, 2013



Produced: 01/15/2013

Forecaster: Baxter

	Confidence		
	High	Moderate	
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.

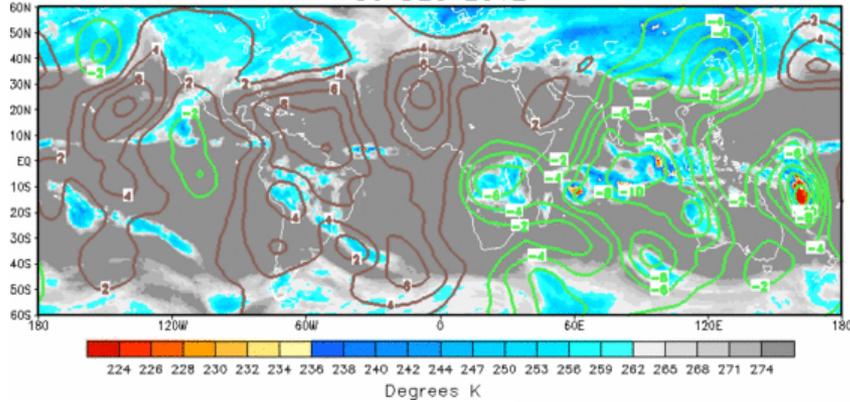


IR Satellite & 200-hpa Velocity Potential Anomalies

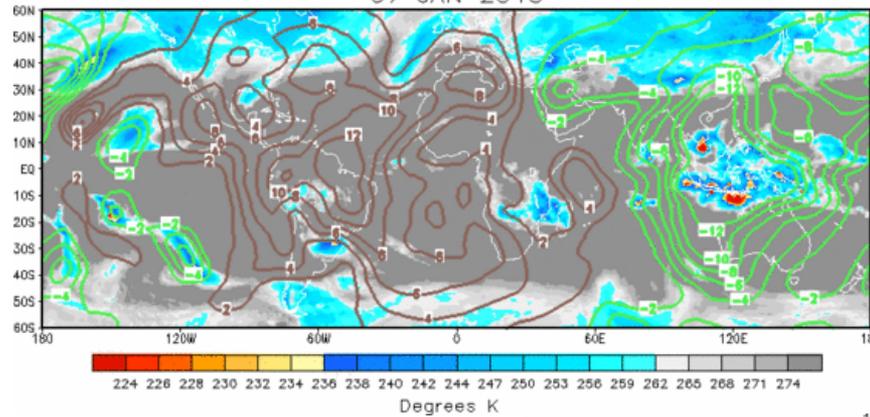
Green: Enhanced Divergence

Brown: Enhanced Convergence

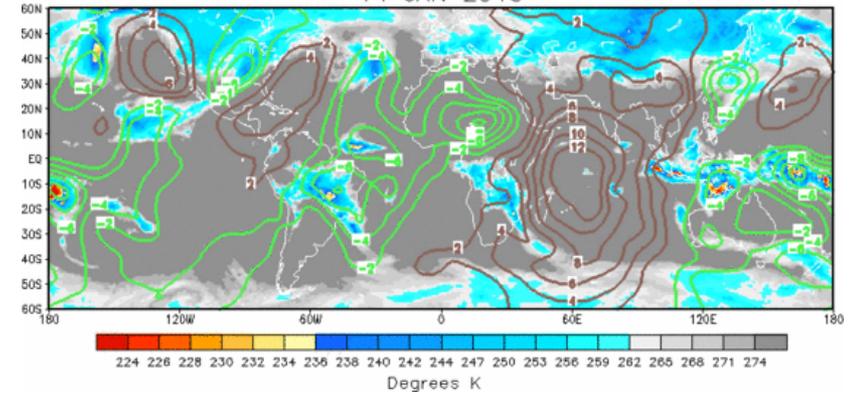
30 DEC 2012



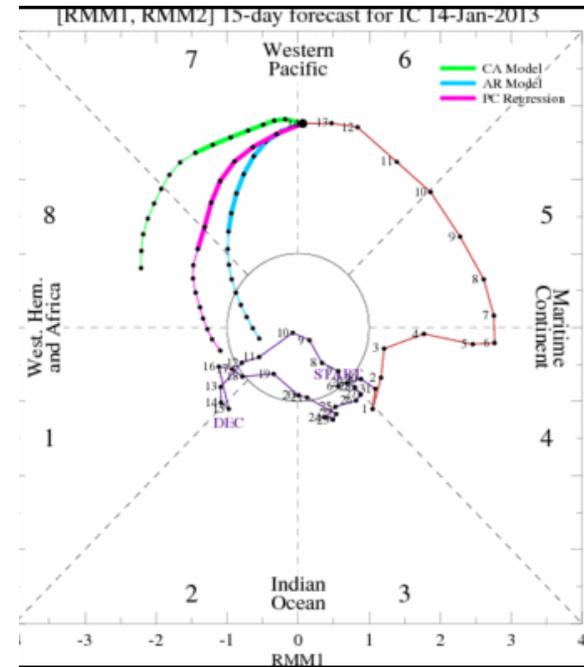
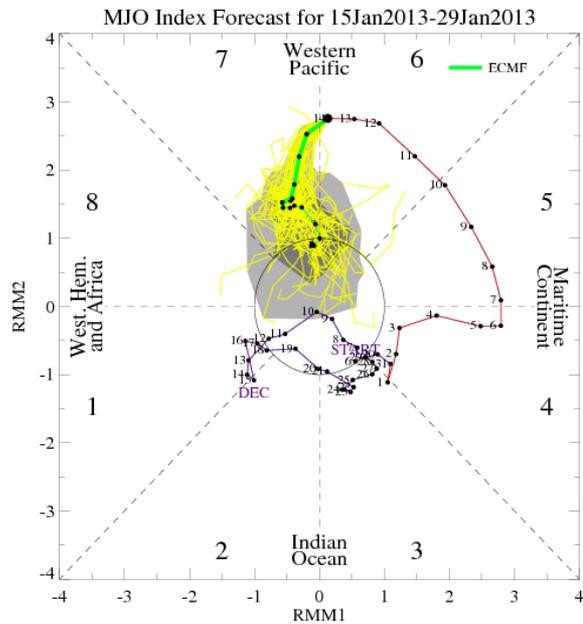
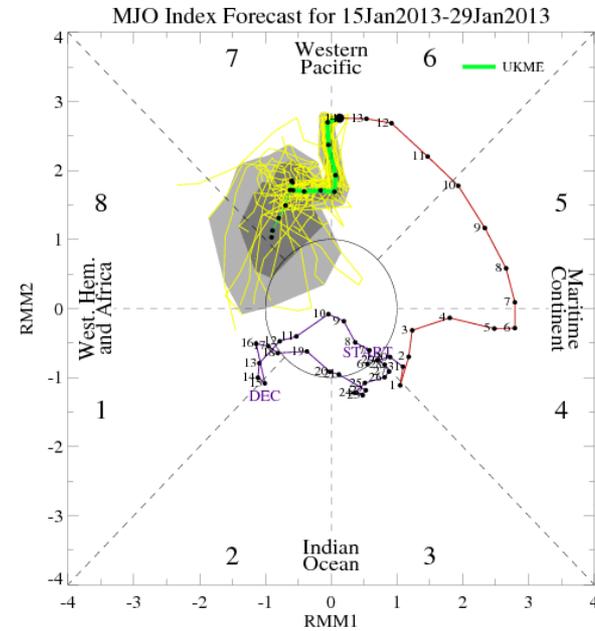
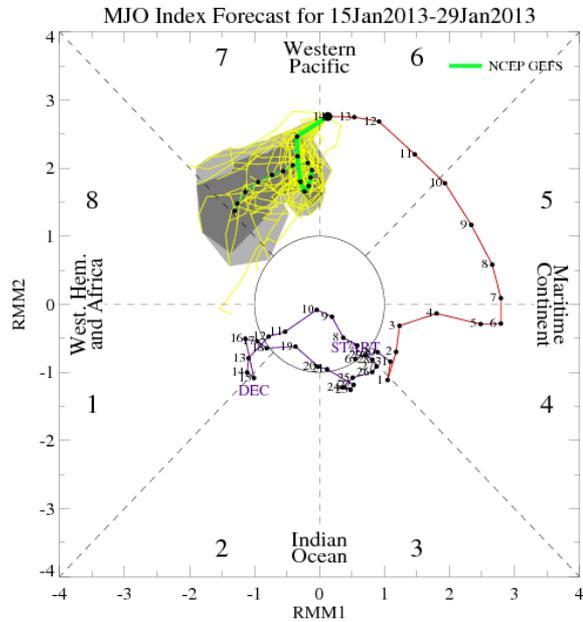
07 JAN 2013



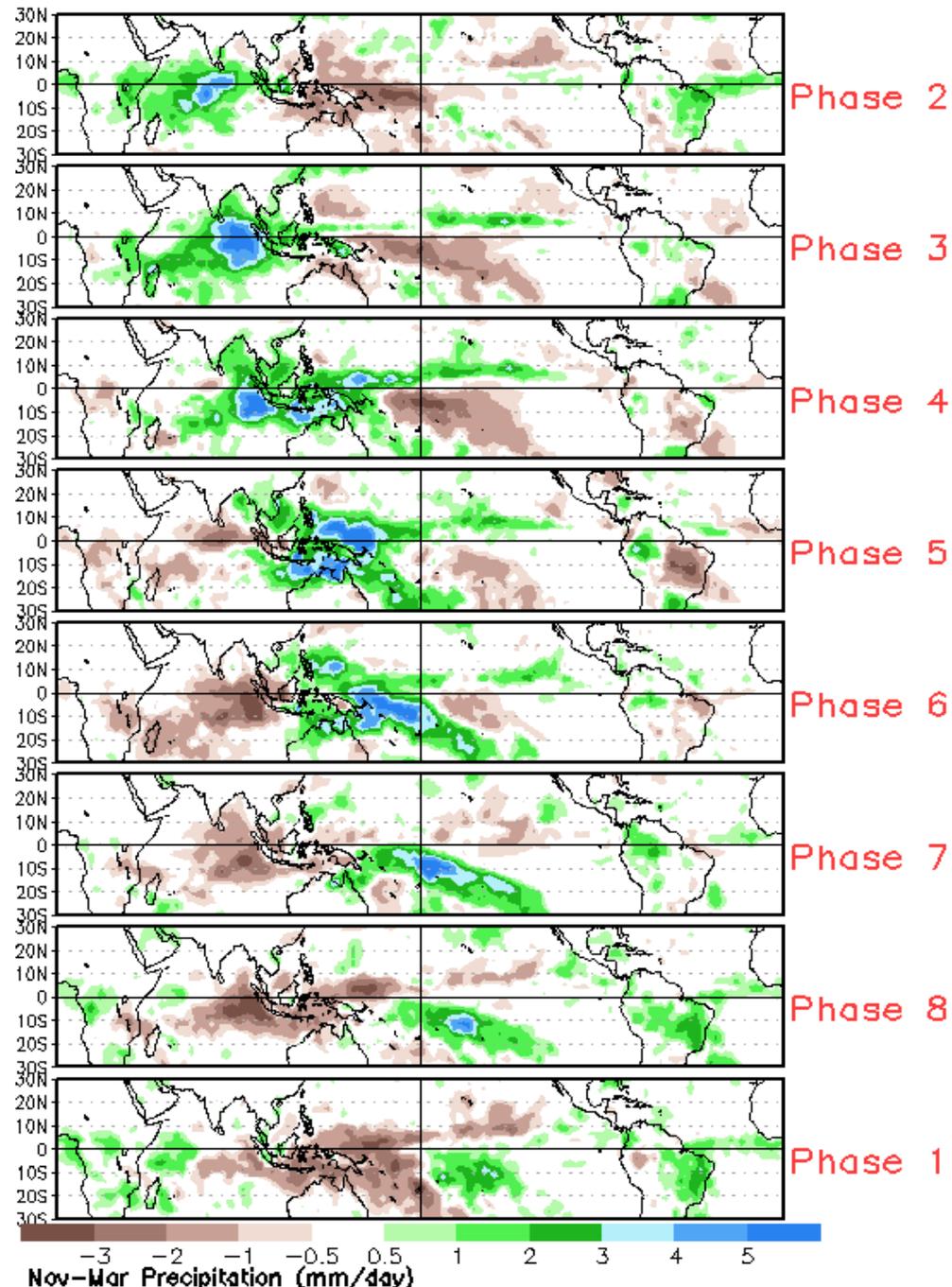
14 JAN 2013



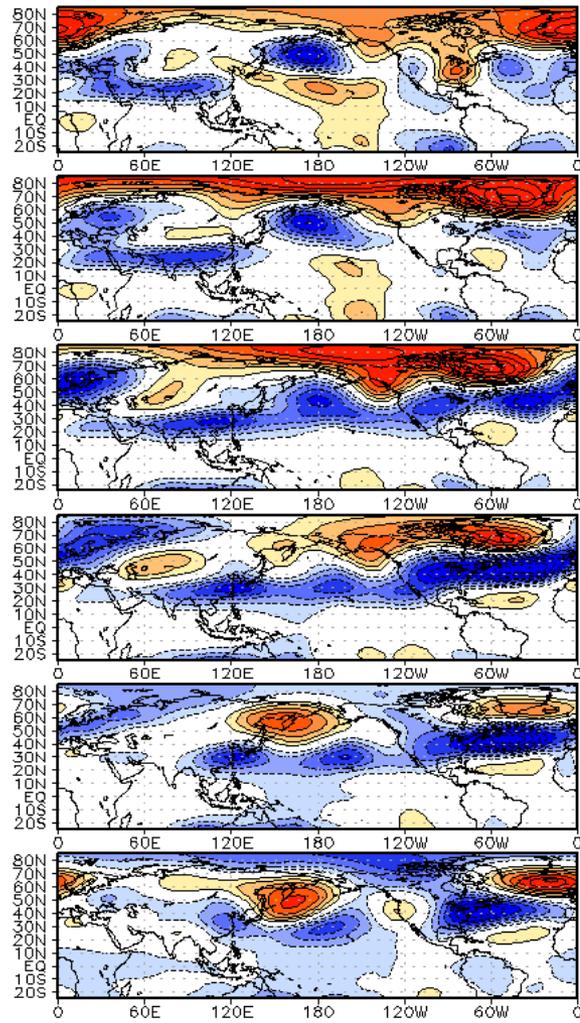
MJO Observation/Forecast



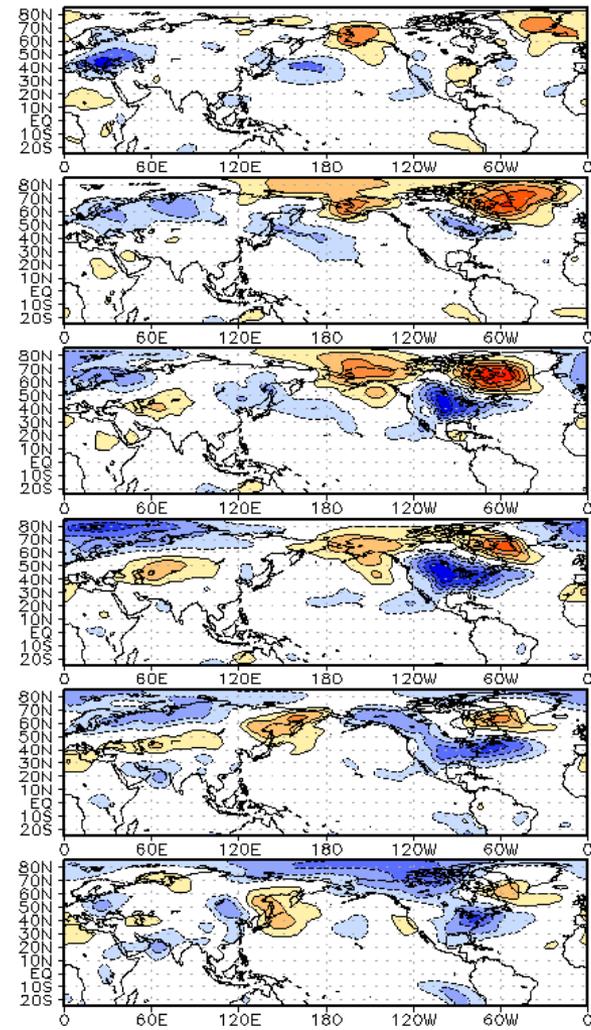
Average Conditions when the MJO is present (Nov-Mar)



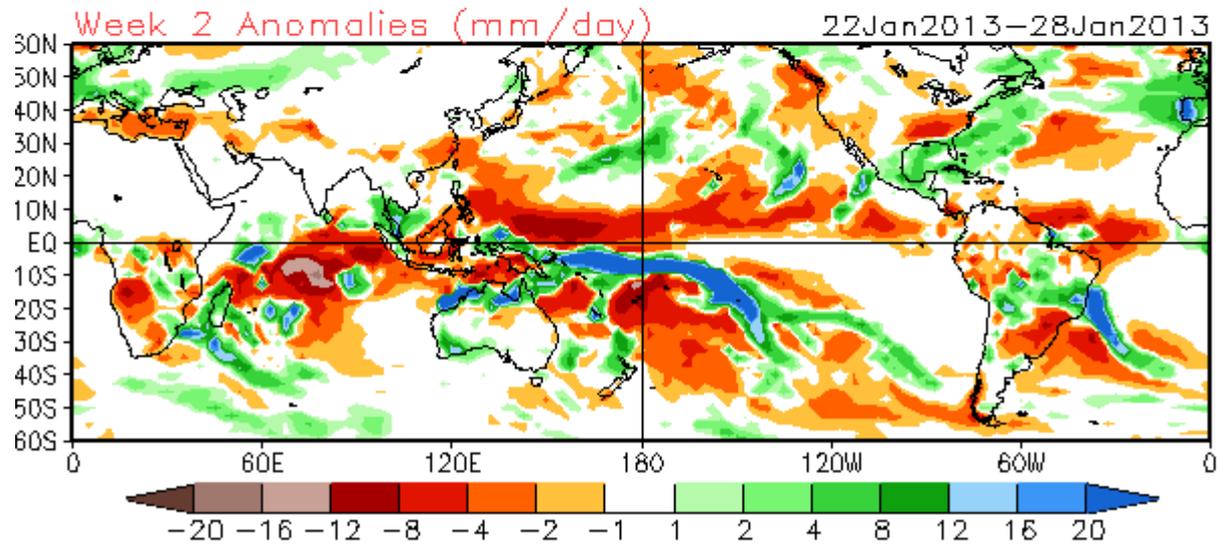
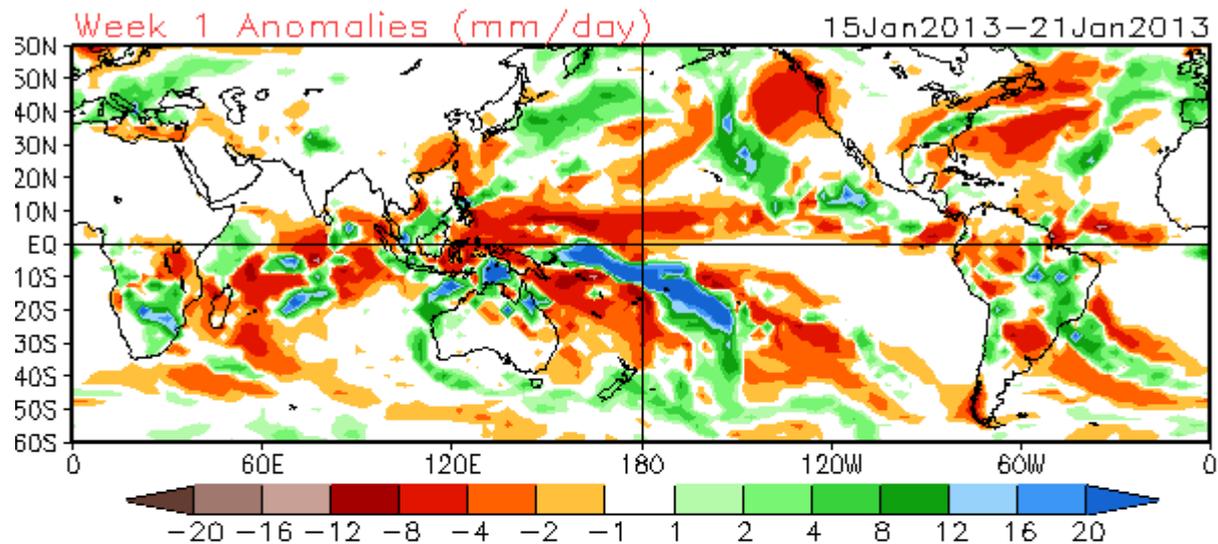
WHMJO Phase 7 z200 Lagged Composite (djf)



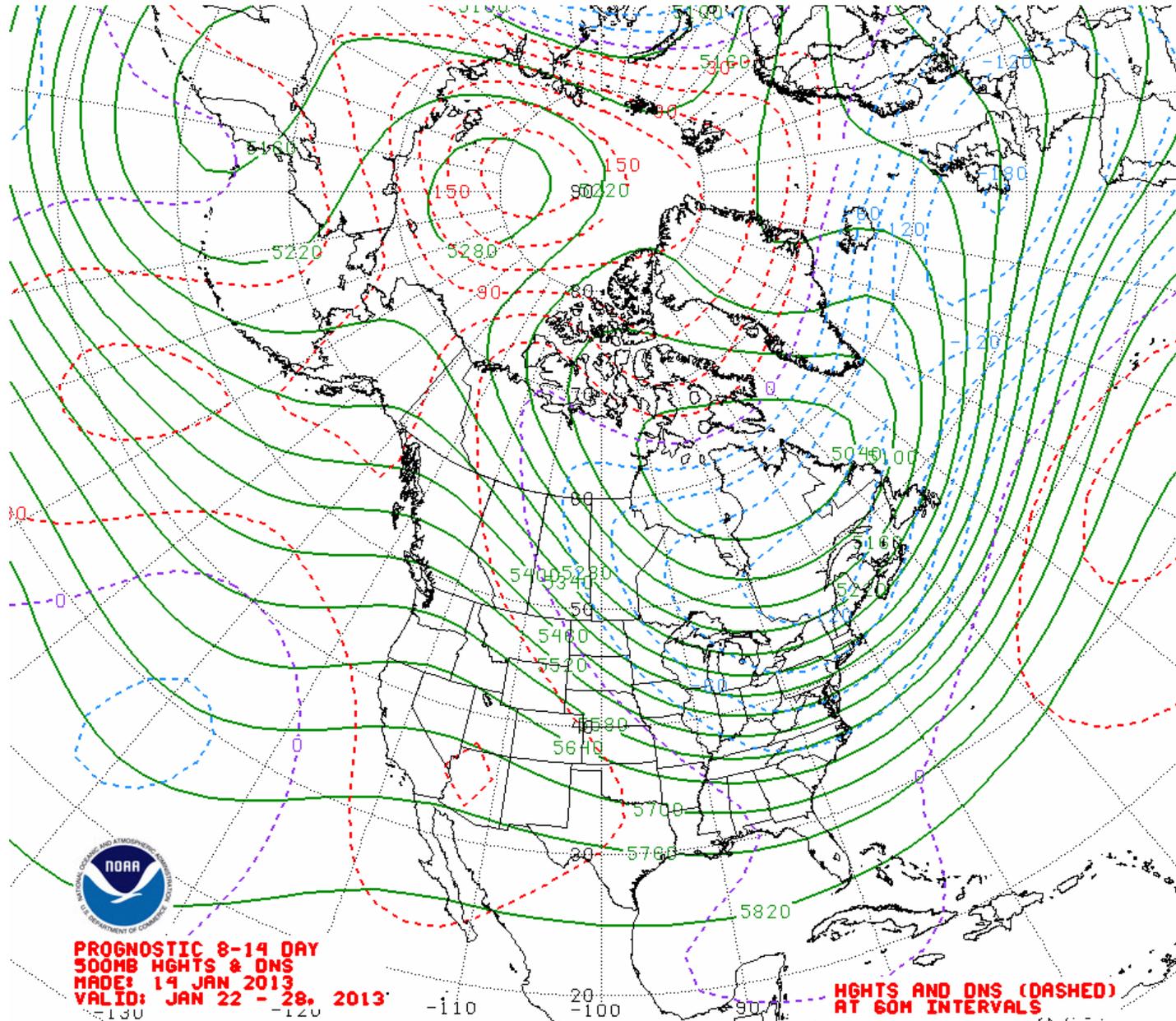
WHMJO Phase 7 t850 Lagged Composite (djf)



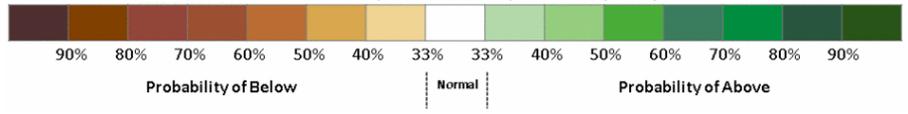
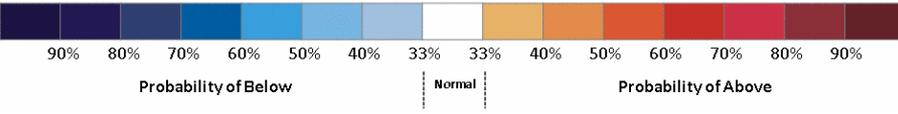
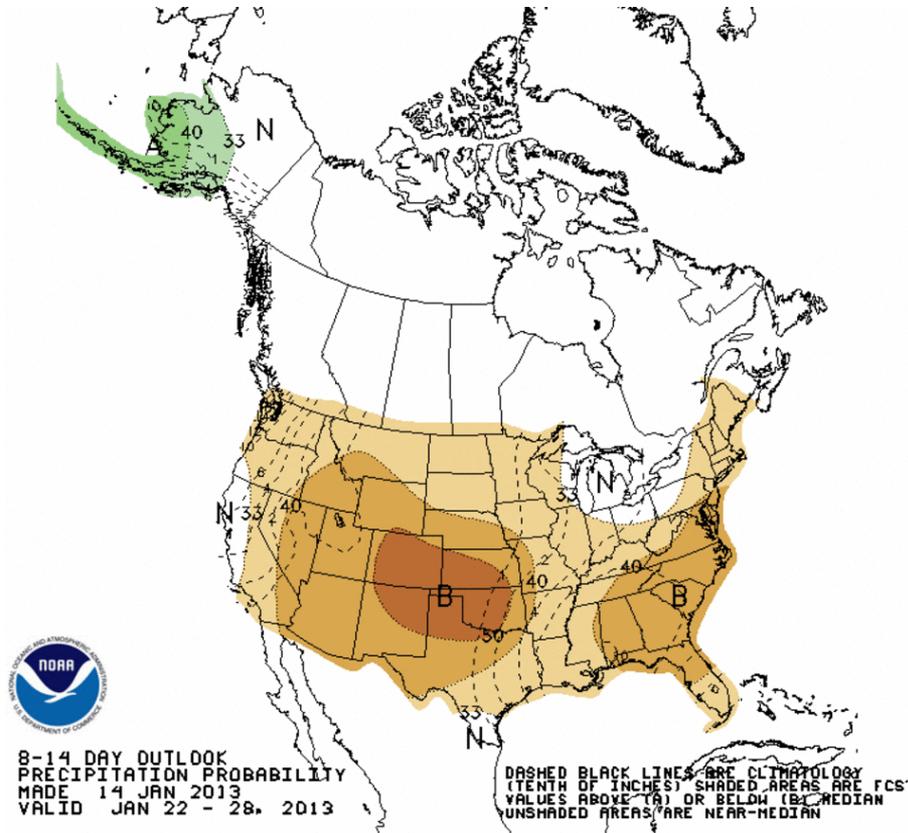
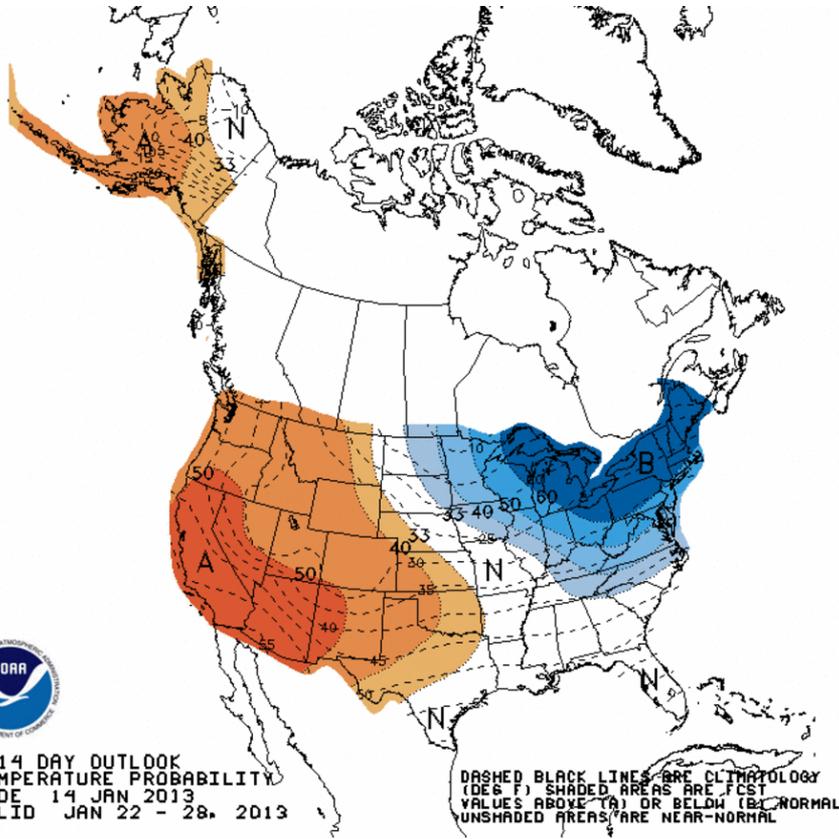
CFSv2 Weeks 1 & 2 Precipitation
16 Member Ensemble Mean Forecast from 14Jan2013



Week 2 500-hPa Manual Chart

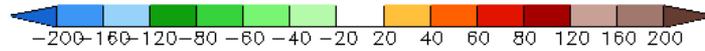
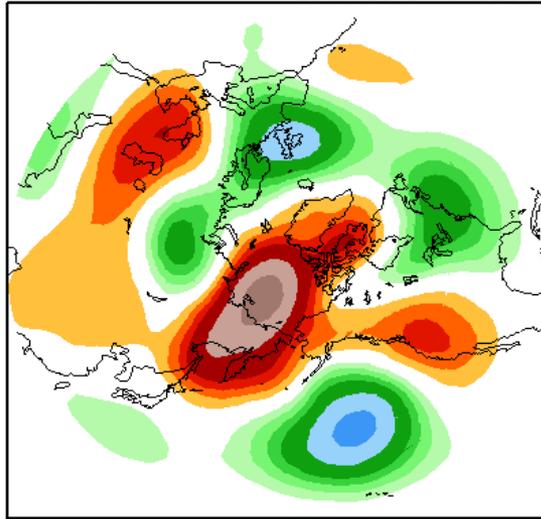


Week 2 – Temperature and Precipitation



CFSv2 Weeks 3 & 4 500 hPa Z Anomalies (m)
16 Member Ensemble Mean Forecast from 14Jan2013

Week 3 29Jan2013–4Feb2013



Week 4 5Feb2013–11Feb2013

