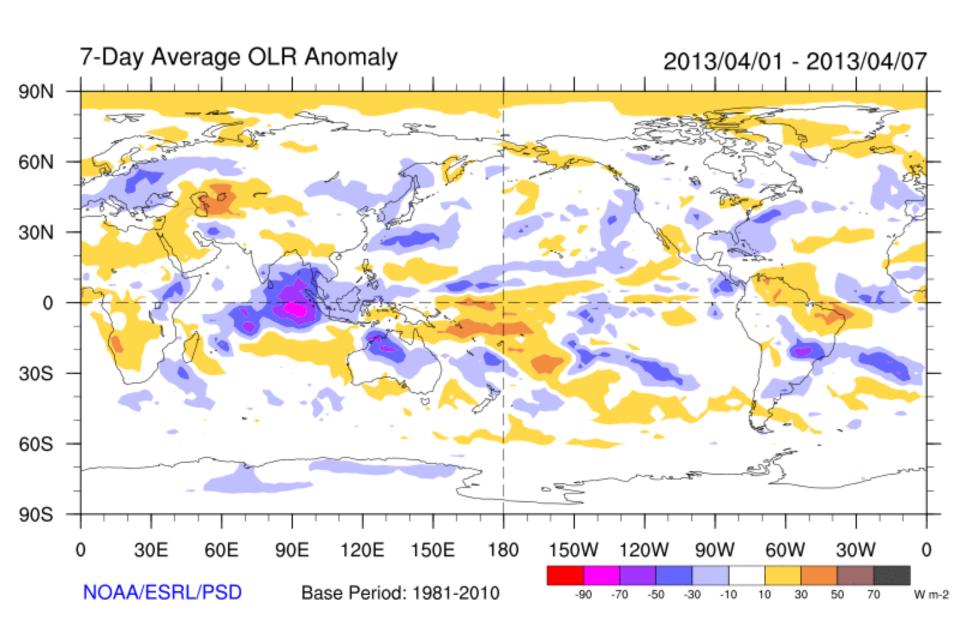
Global Tropics Hazards And Benefits Outlook April 8, 2013

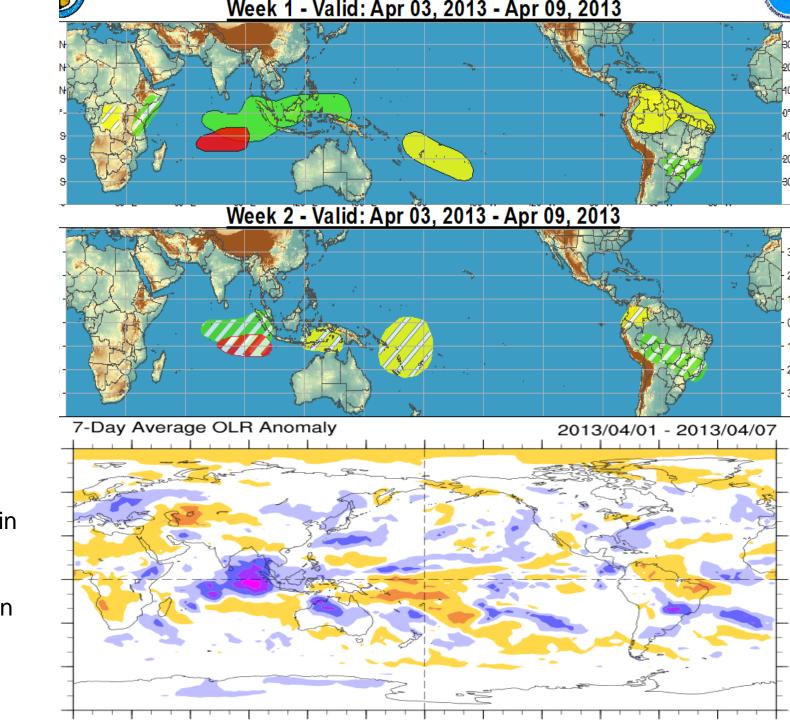
Matthew Rosencrans

<u>Outline</u>

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



Outlook Review



Cool shading More clouds/rain

Warm shading Less clouds/rain

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, although some observational indicators are less coherent than in previous weeks as other subseasonal variability are playing a large role in the pattern of anomalous tropical convection. The MJO enhanced phase is centered over the eastern Indian Ocean.
- Dynamical model MJO index forecasts generally support continued eastward propagation. The statistical tools also support continued MJO activity, although those reflect a weaker signal.

Extratropics:

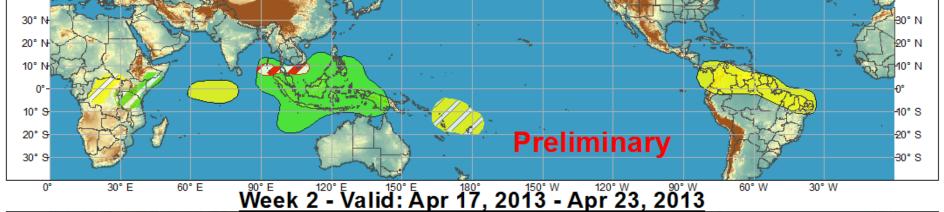
• The extended range forecast for the U.S. aligns well with the typical circulation patterns based on the current and forecast phases of the MJO. These include a trend towards abovenormal temperatures across the eastern U.S. and a more active across the central U.S.

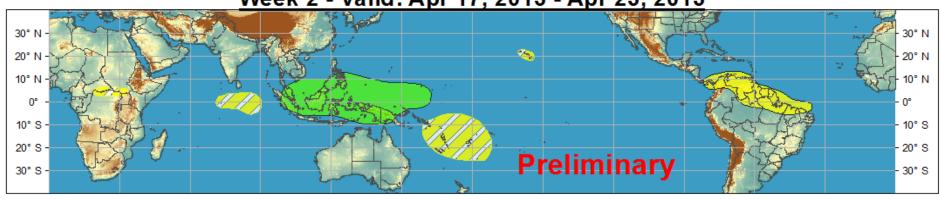


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Confidence High Moderate Produced: 04/09/2013

Forecaster: Rosencrans

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.





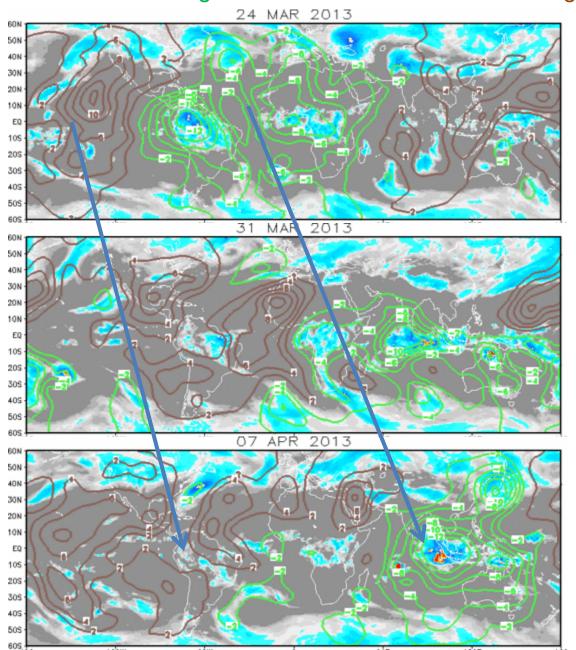




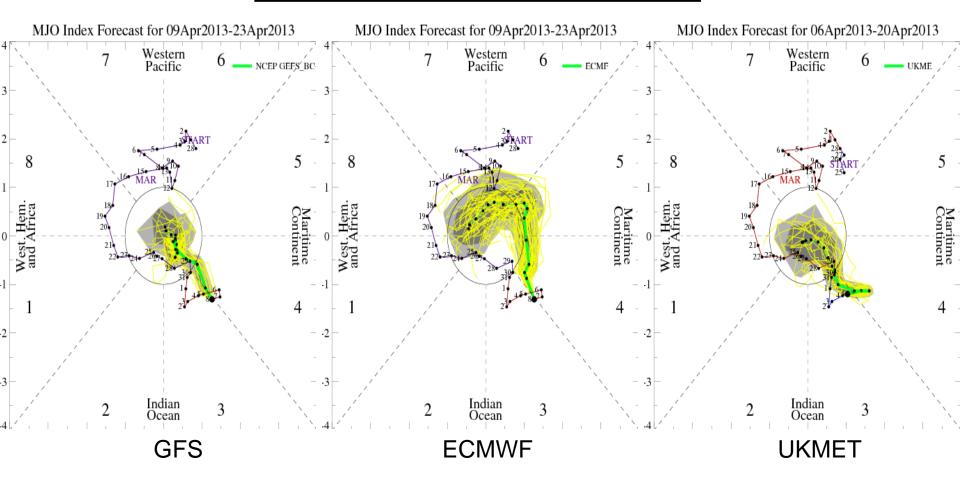


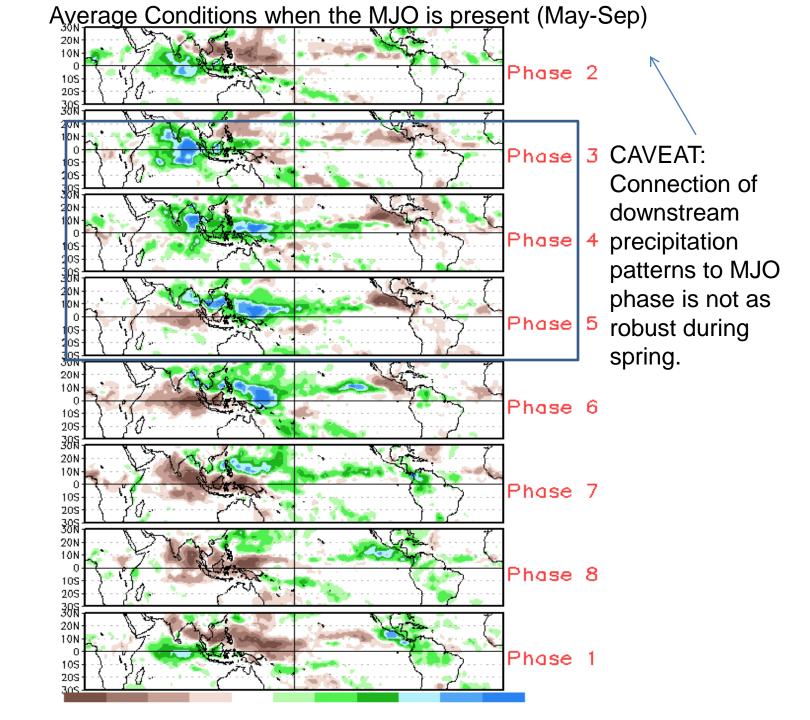
IR Satellite & 200-hpa Velocity Potential Anomalies

Green: Enhanced Divergence Brown: Enhanced Convergence

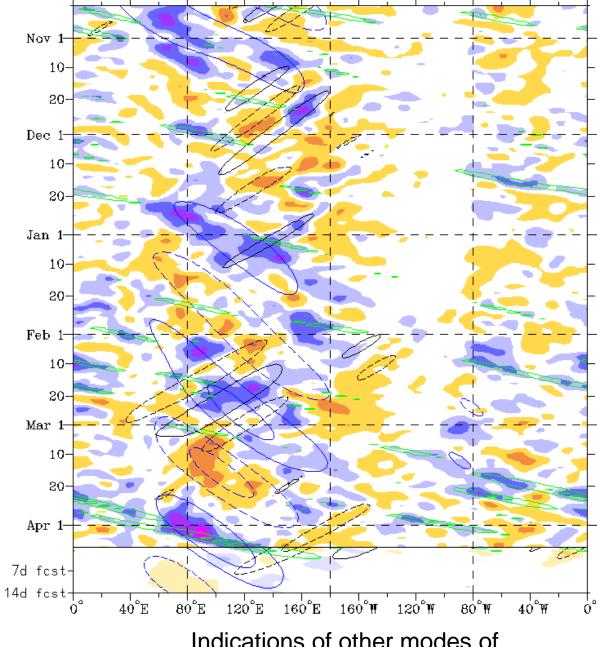


MJO Observation/Forecast

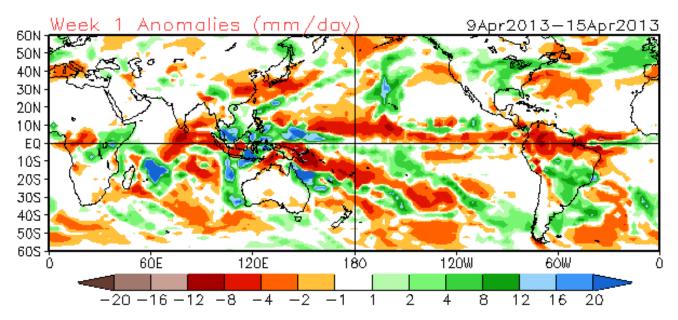


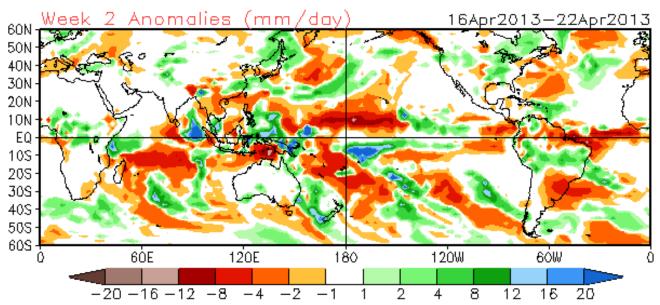


Atmospheric Kelvin waves and active phase of the MJO forecast to impact Indian Ocean and Maritime Continent.

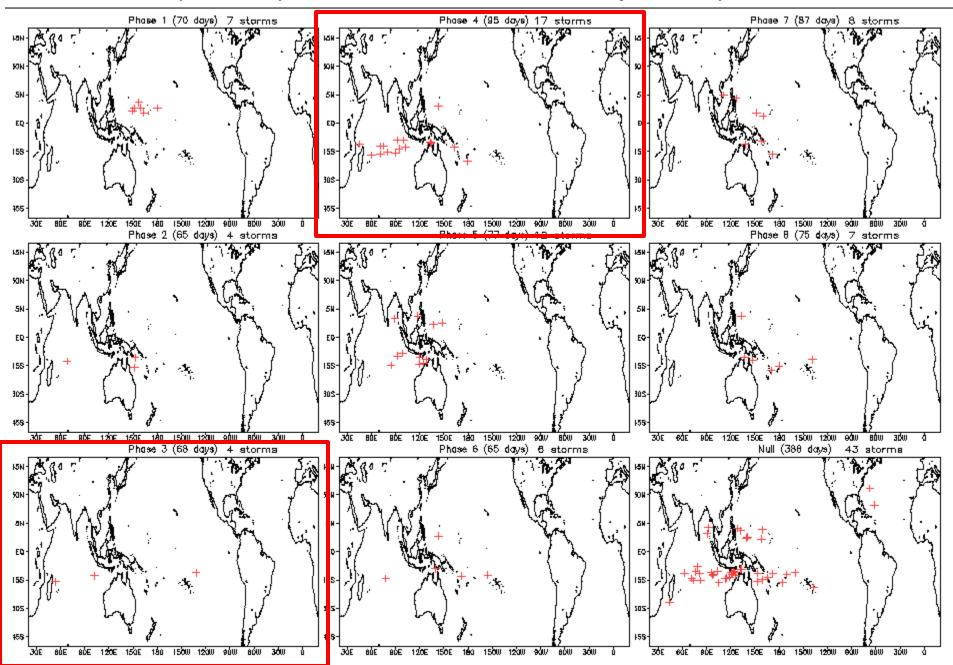


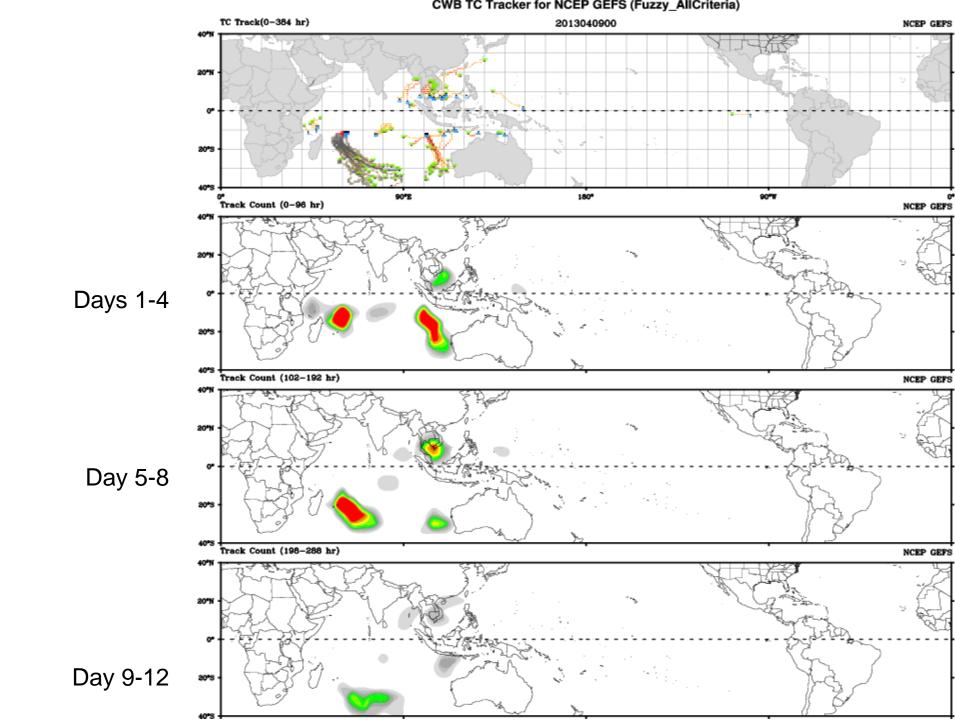
Indications of other modes of variability, including mid-latitude influence near the Date Line.

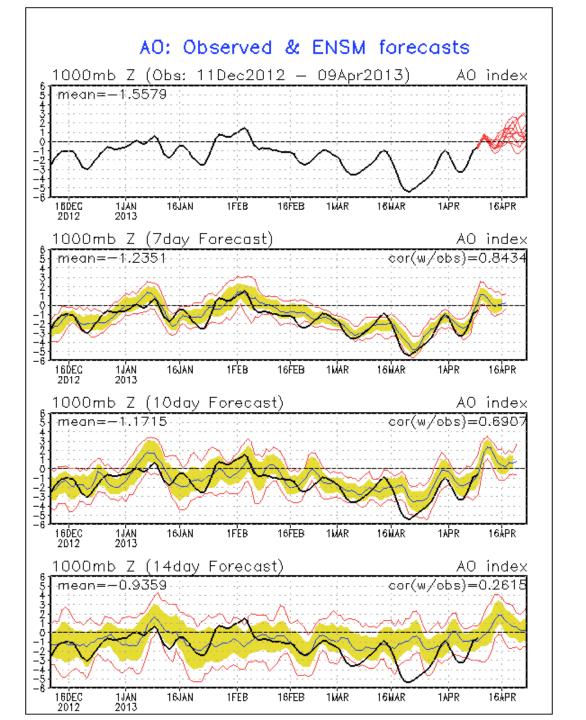


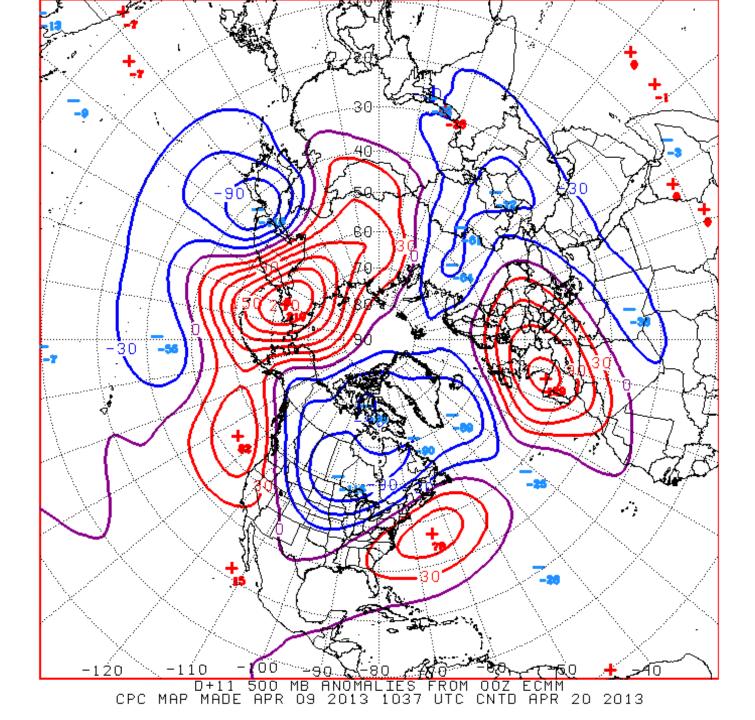


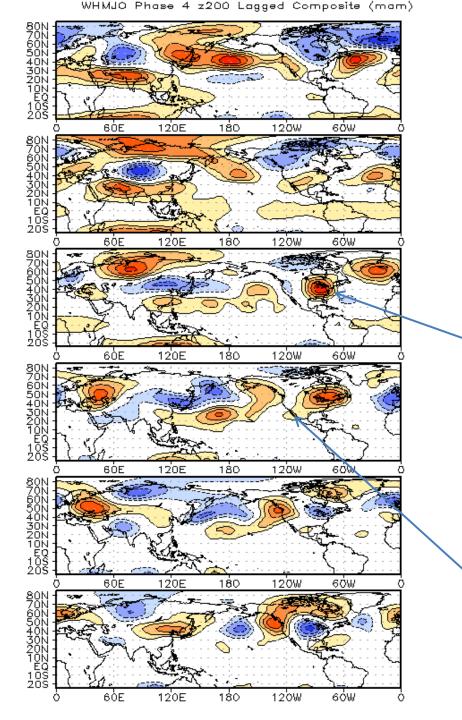
April Tropical Storm Formation by MJO phase





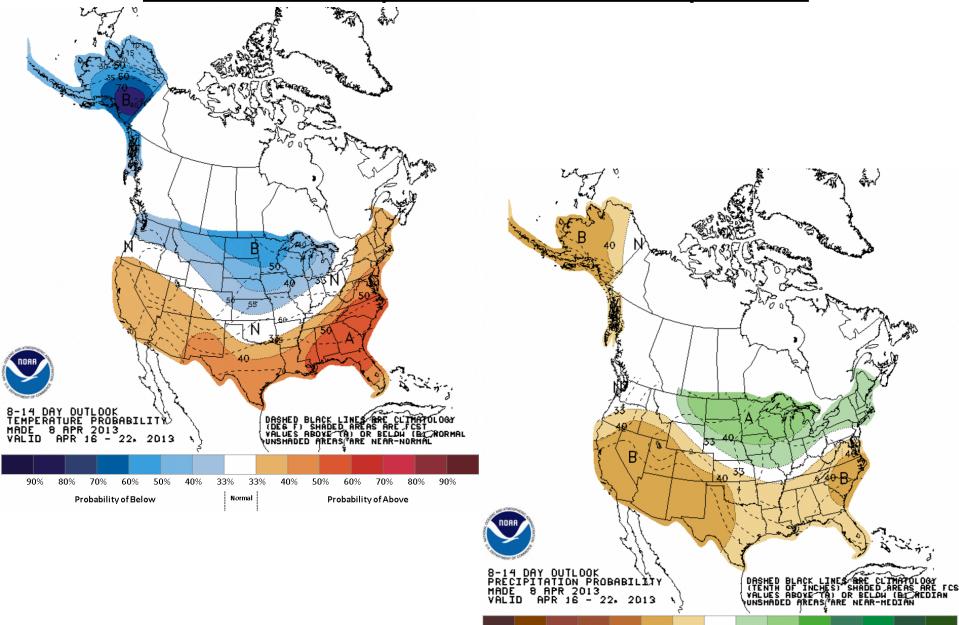






Indicates a shift toward warmer conditions across the eastern half of the CONUS. 5-15 days out. Slightly offset from current dynamical model outputs.

Would also support some moisture return over the central portions of the country, although a bit later and north (minimal southern stream energy) Week 2 - Temperature and Precipitation



70%

Probability of Below

33%

Normal

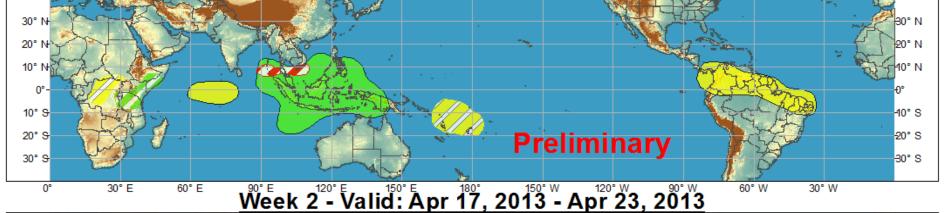
Probability of Above

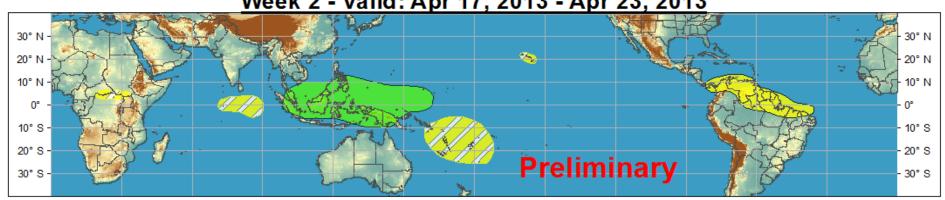


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