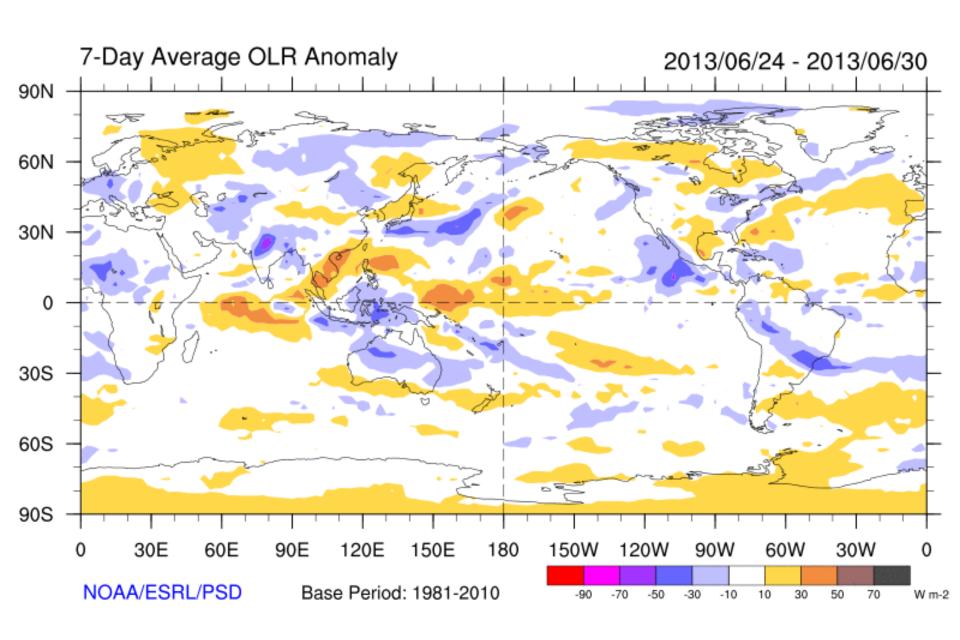
Global Tropics Hazards And Benefits Outlook July 2, 2013

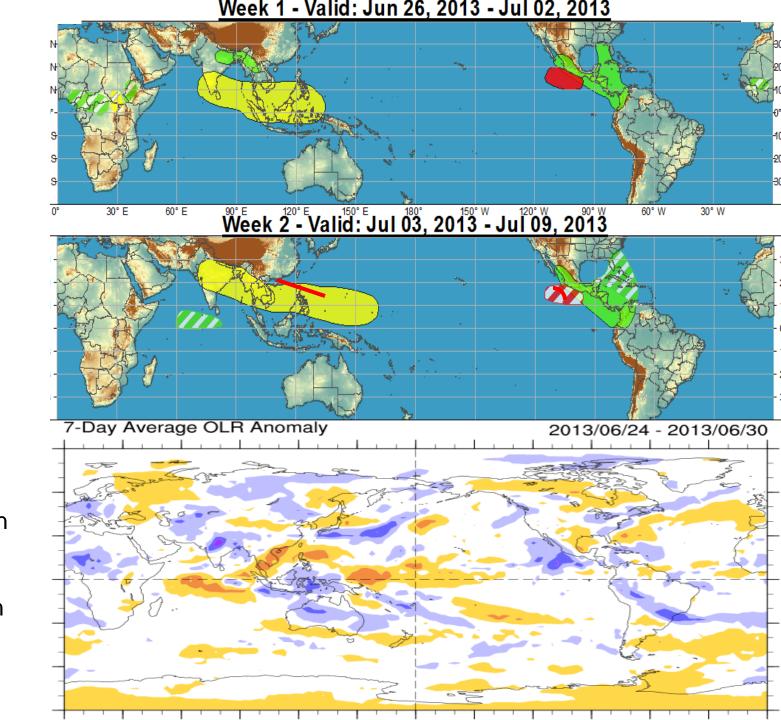
Adam Allgood

<u>Outline</u>

- 1. Review of Recent Conditions
- 2. Synopsis of Climate Modes
- 3. GTH Outlook and Forecast Discussion
- 4. Connections to U.S. Impacts

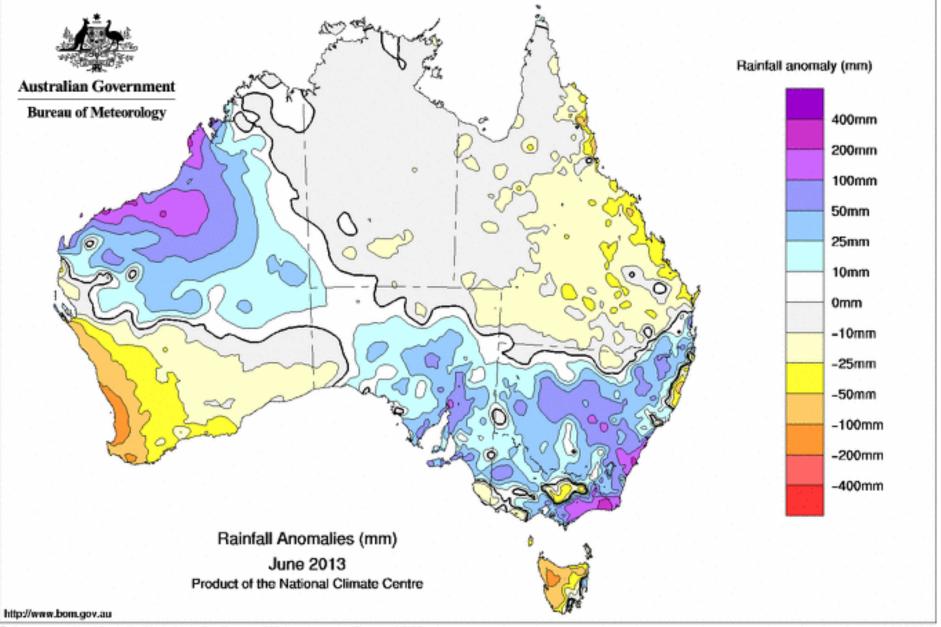


Outlook Review



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 other modes of subseasonal variability continue to play a role in the global tropical convective anomalies. The MJO convectively enhanced phase is currently over the Western Hemisphere.
- There is considerable spread among the dynamical and statistical model MJO forecasts, with some limiting the eastward propagation of the signal and others continuing propagation with various amplitudes.

Extratropics:

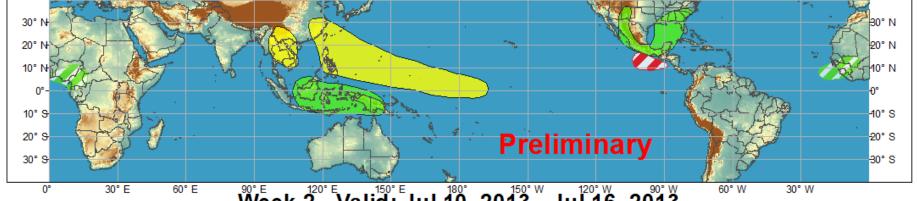
• The extended range forecast for the U.S. aligns well with the typical circulation patterns based on the current and forecast phases of the MJO. The forecast includes enhanced chances of above normal precipitation over the eastern half of the CONUS and an enhanced Southwest Monsoon.



Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Jul 10, 2013 - Jul 16, 2013



Produced: 07/02/2013 Confidence High Moderate Forecaster: Allgood

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.

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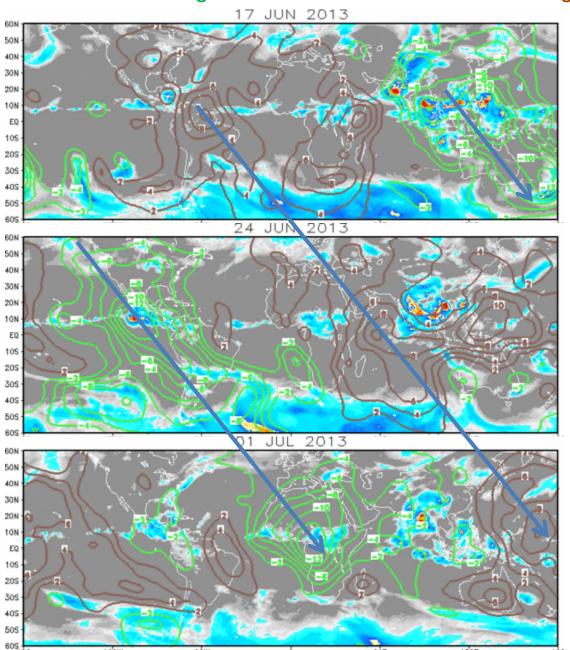




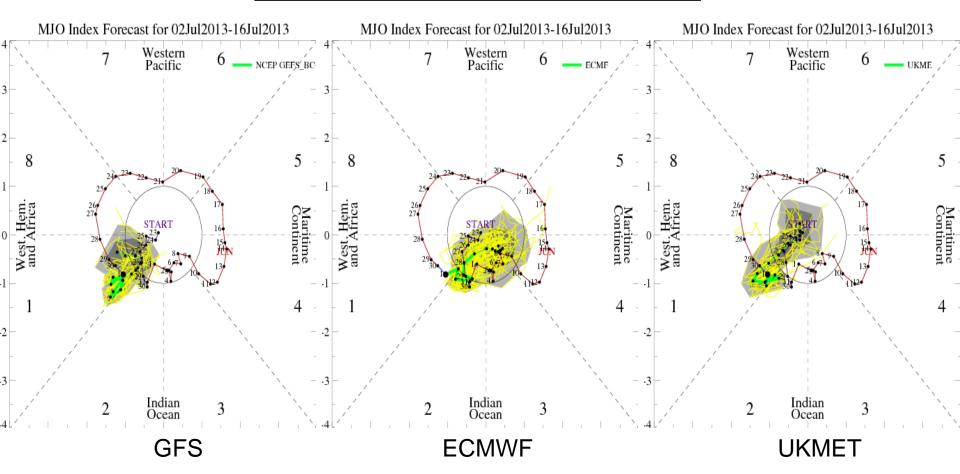


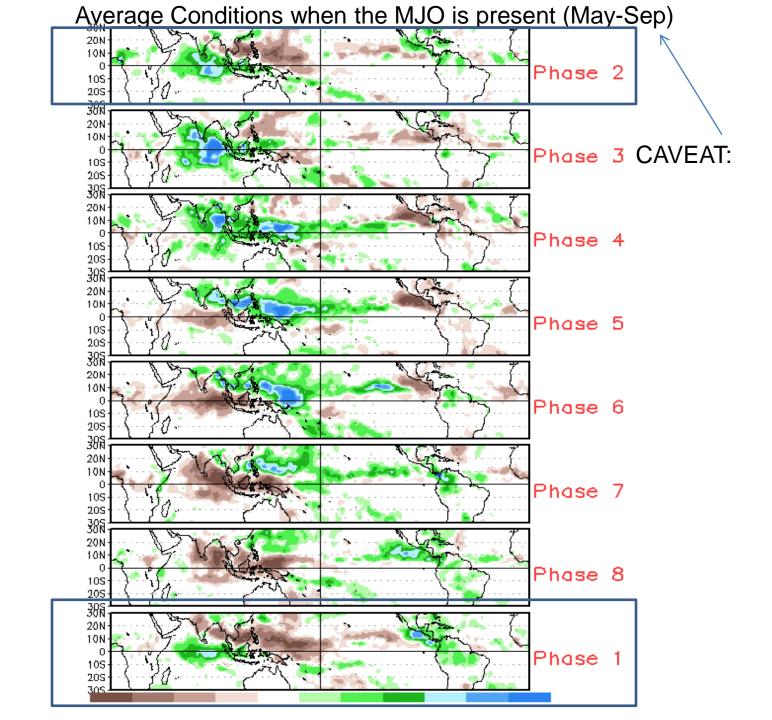
IR Satellite & 200-hpa Velocity Potential Anomalies

Green: Enhanced Divergence Brown: Enhanced Convergence

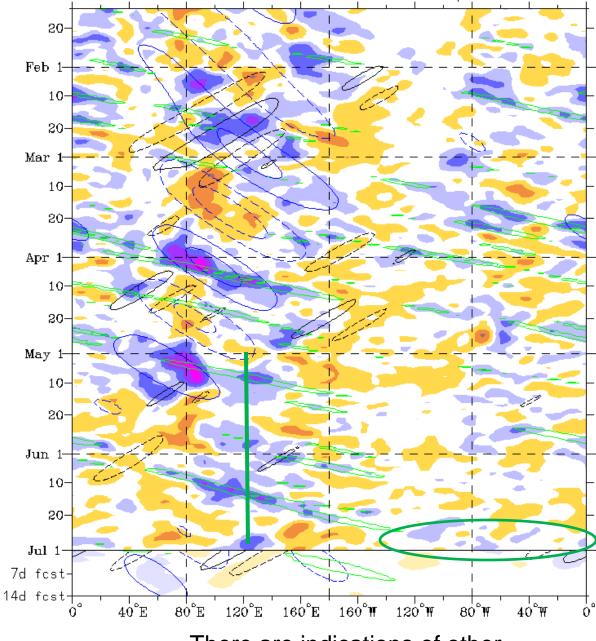


MJO Observation/Forecast

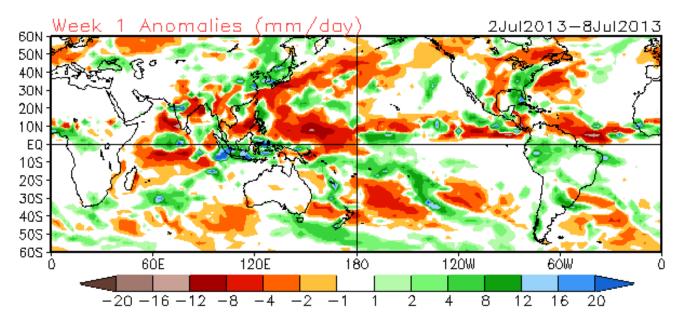


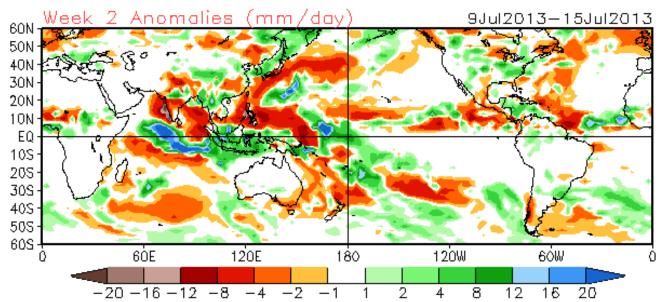


Active phase of the MJO forecast to impact the Western Hemisphere.

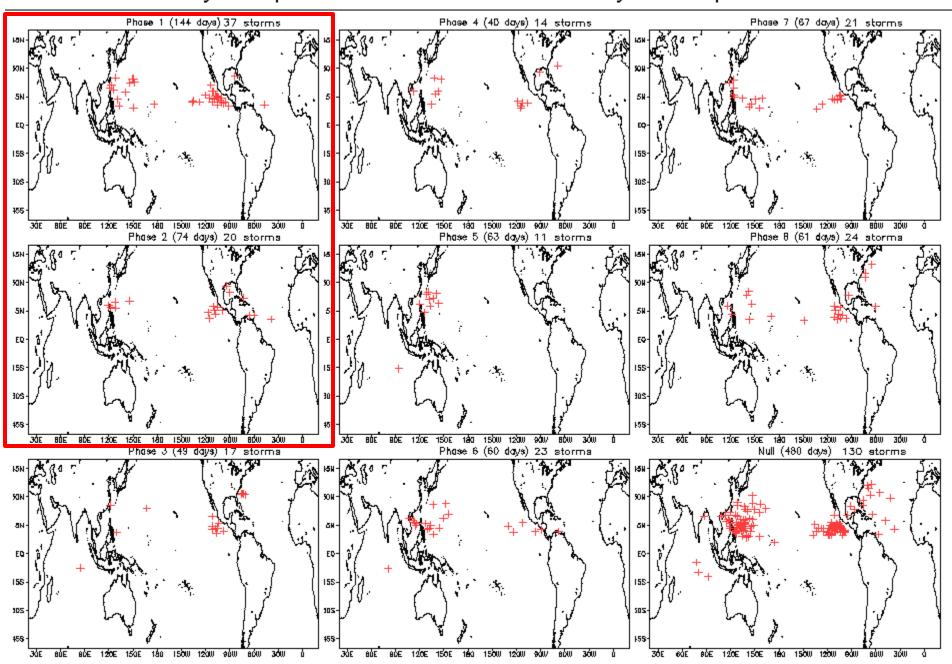


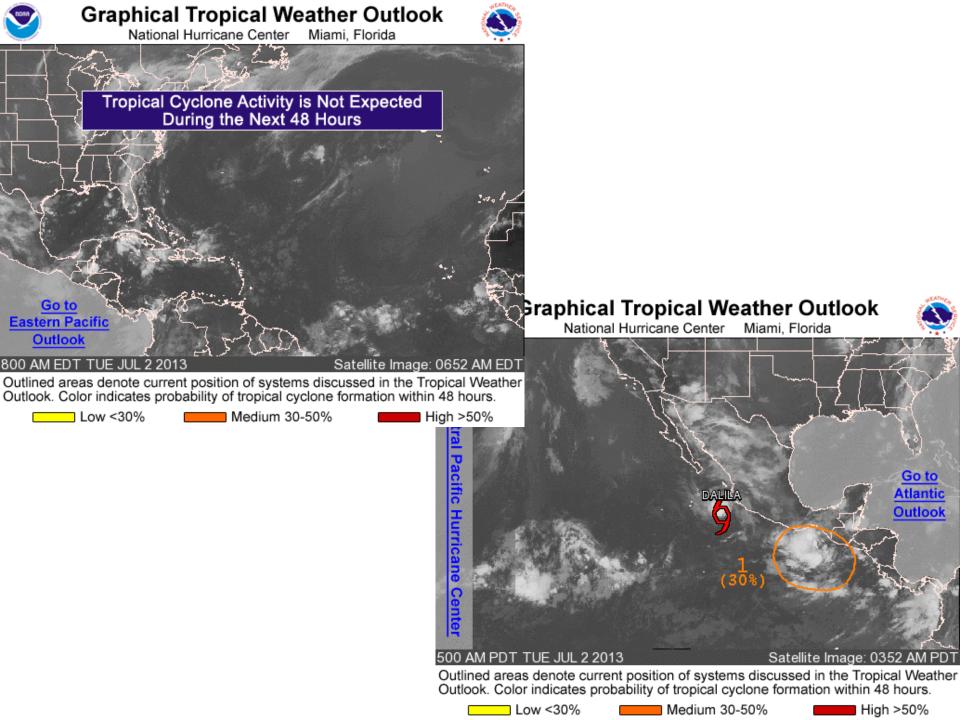
There are indications of other modes of variability.

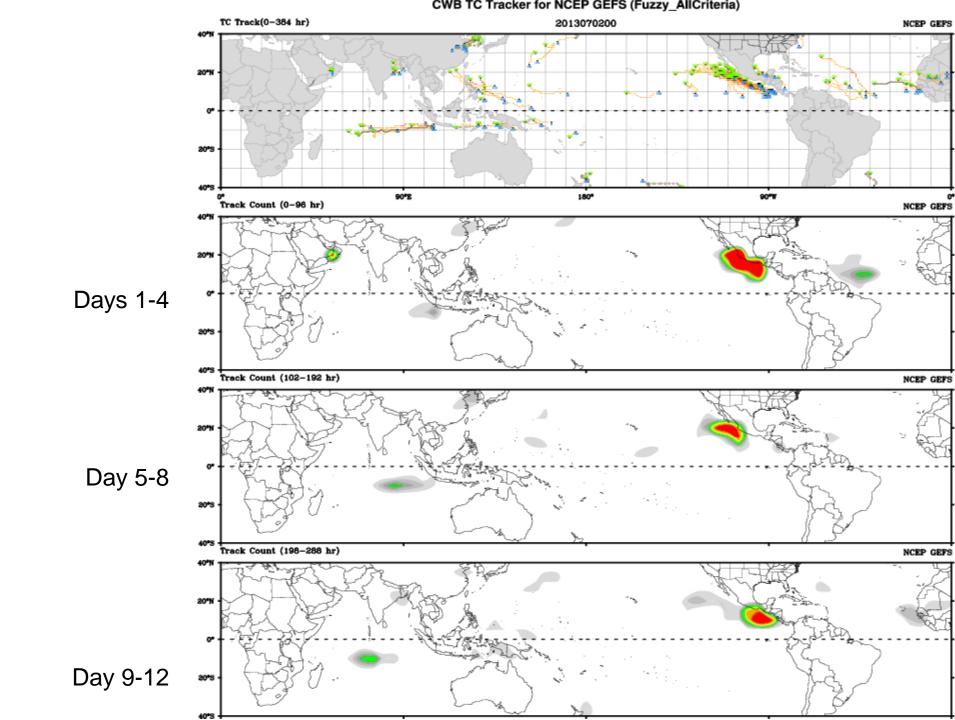




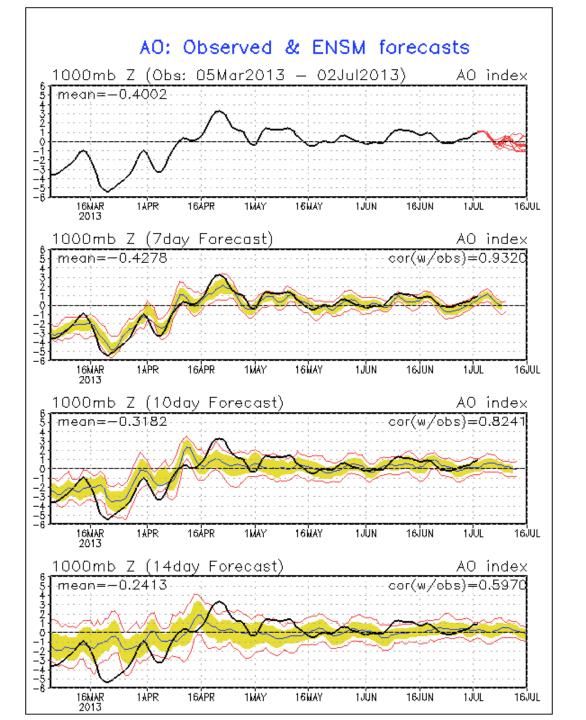
July Tropical Storm Formation by MJO phase



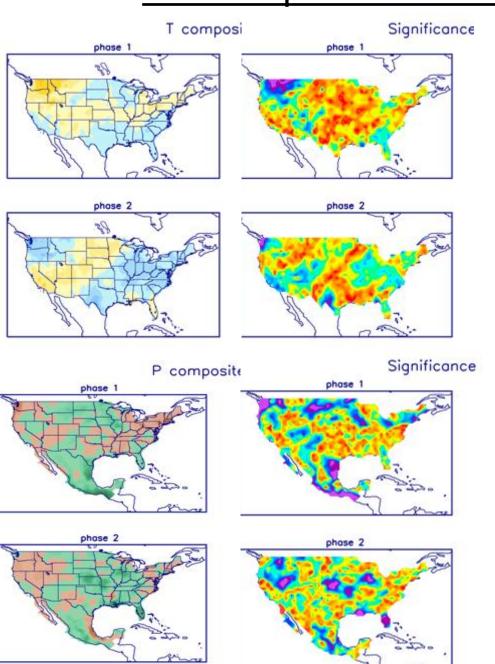




Connections to U.S. Impacts

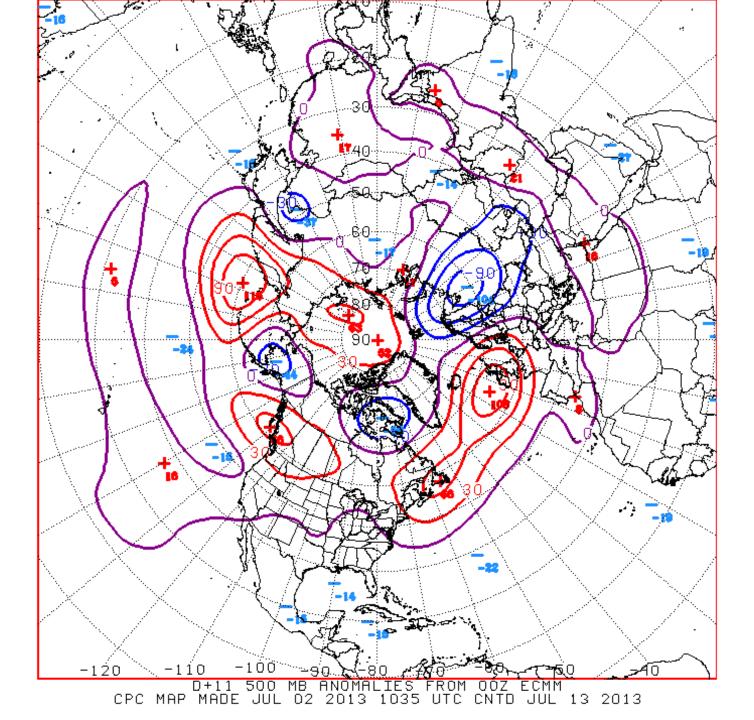


US Composites based on MJO Phase

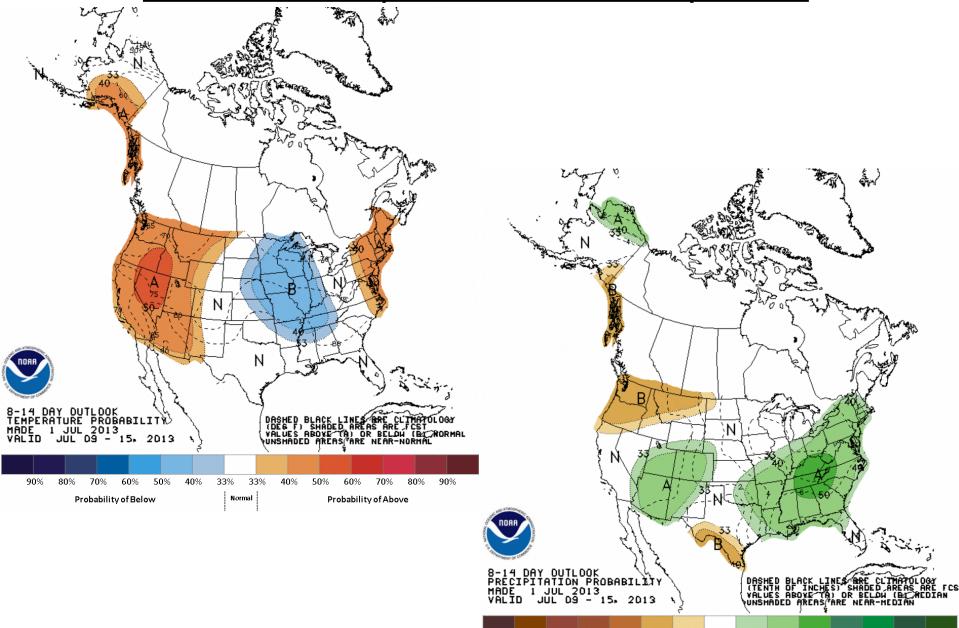


Indicates a shift toward milder conditions across the eastern half of the U.S., with some significance across the Corn Belt and mid-Atlantic.

Some significance in composites indicating enhanced precipitation over the central Plains and Southeast.



Week 2 - Temperature and Precipitation



70%

Probability of Below

33%

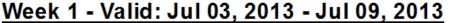
Normal

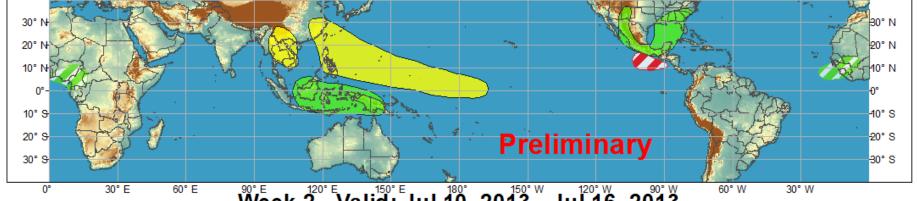
Probability of Above



Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







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Confidence

High Moderate Forecaster: Allgood

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