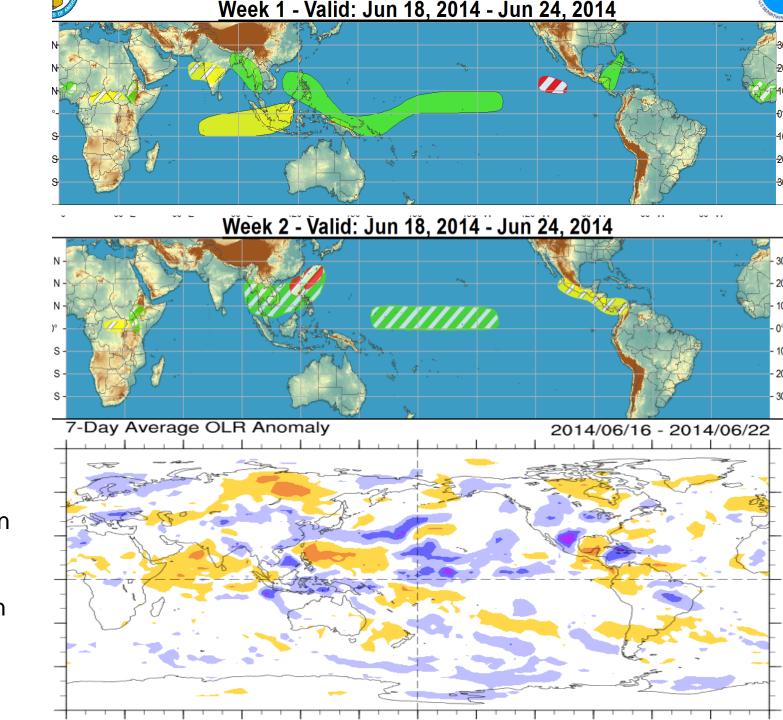
Global Tropics Hazards And Benefits Outlook June 24, 2013

Matthew Rosencrans

<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:

• El Nino Watch. The chance of El Niño is 70% during the Northern Hemisphere summer and reaches 80% during the fall and winter.

MJO and other subseasonal tropical variability:

- The MJO strengthened during the past week.
- Model forecasts of the MJO are highly varied. Some propagate the signal to the Americas/Africa, others center the signal over the Central Pacific (likely linked to evolving ENSO state). The statistical tools also support continued MJO activity, although those reflect a weaker signal with less propagation than the GFS and more than the other models.

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 more precipitation across the eastern third of the CONUS.



Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Jul 02, 2014 - Jul 08, 2014



Confidence High Moderate Produced: 06/24/2014

Forecaster: Rosencrans

Tropical Cyclone Formation Development of a tropical cyclone (tropical depression - TD, or greater 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, except from 6/1 - 11/30 for the region from 120E to 0, 0 to 40N. The product targets broad scale conditions integrated over a 7-day period for US interests only. Consult your local responsible forecast agency.







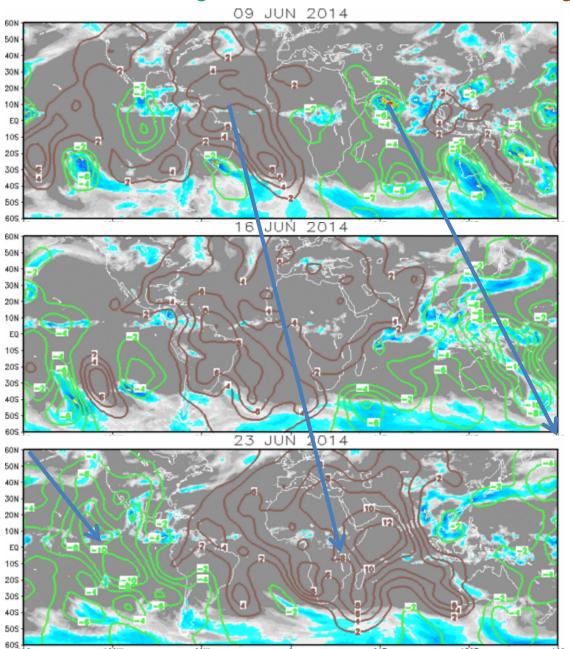




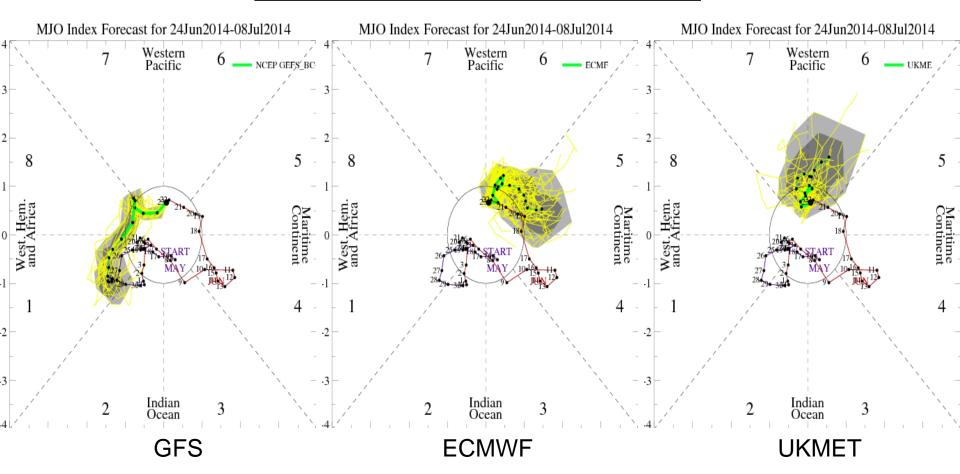


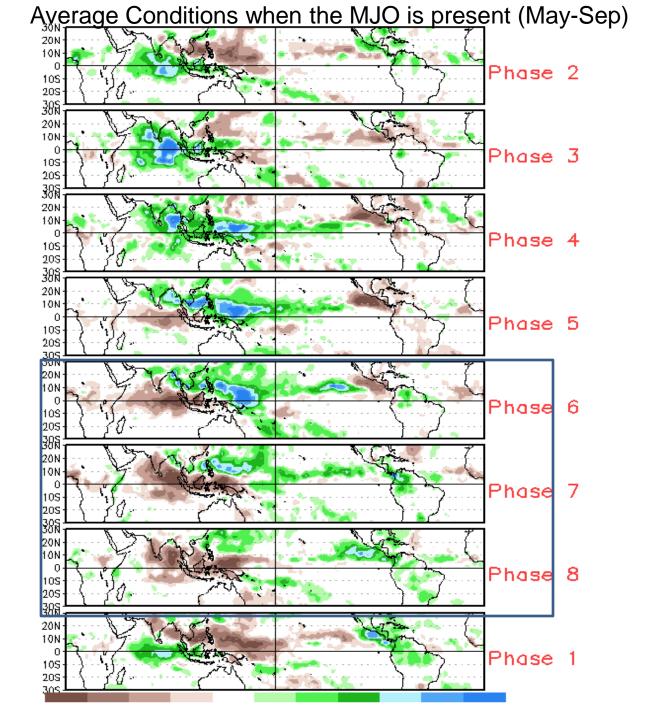
IR Satellite & 200-hpa Velocity Potential Anomalies

Green: Enhanced Divergence Brown: Enhanced Convergence

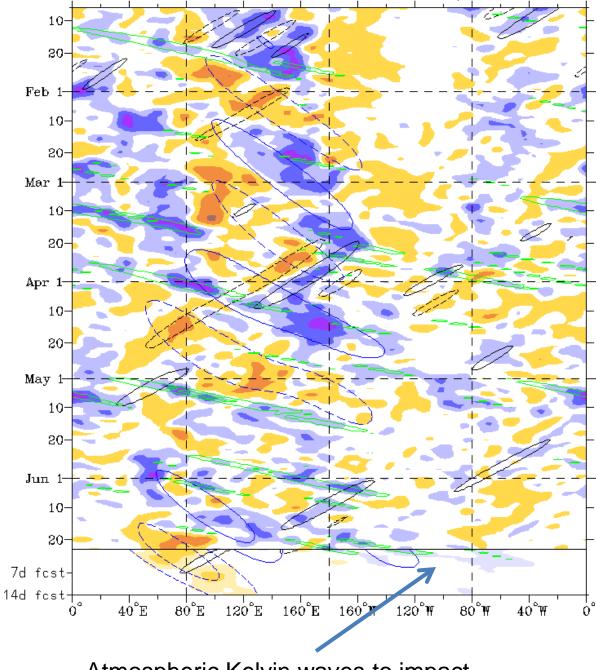


MJO Observation/Forecast



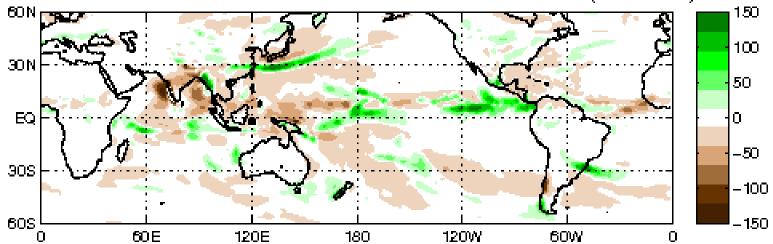


Active phase of the MJO forecast to impact Central Pacific (if it holds together). Suppressed phase over the Indian Ocean.

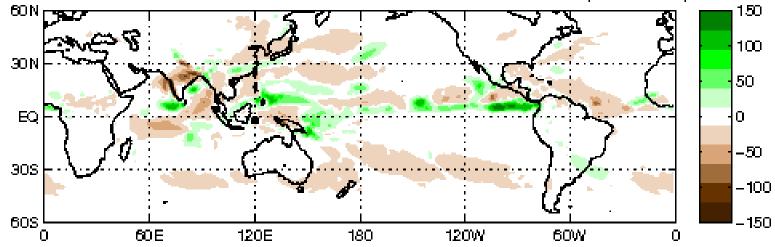


Atmospheric Kelvin waves to impact Americas.

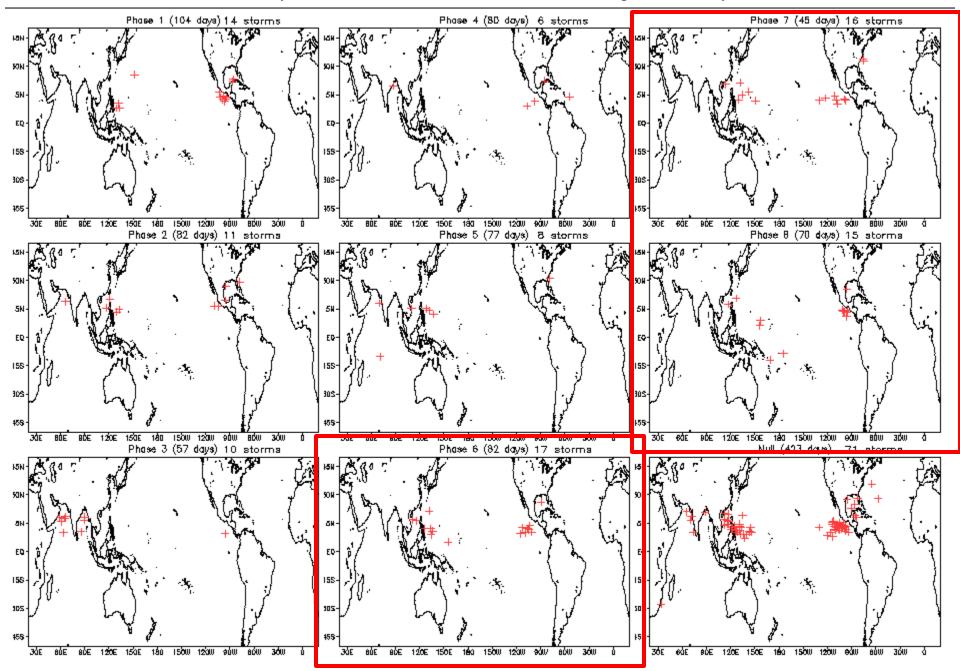
CFS: Anom. PREC Week1: 24-Jun-2014 to 30-Jun-2014 (mm/week)

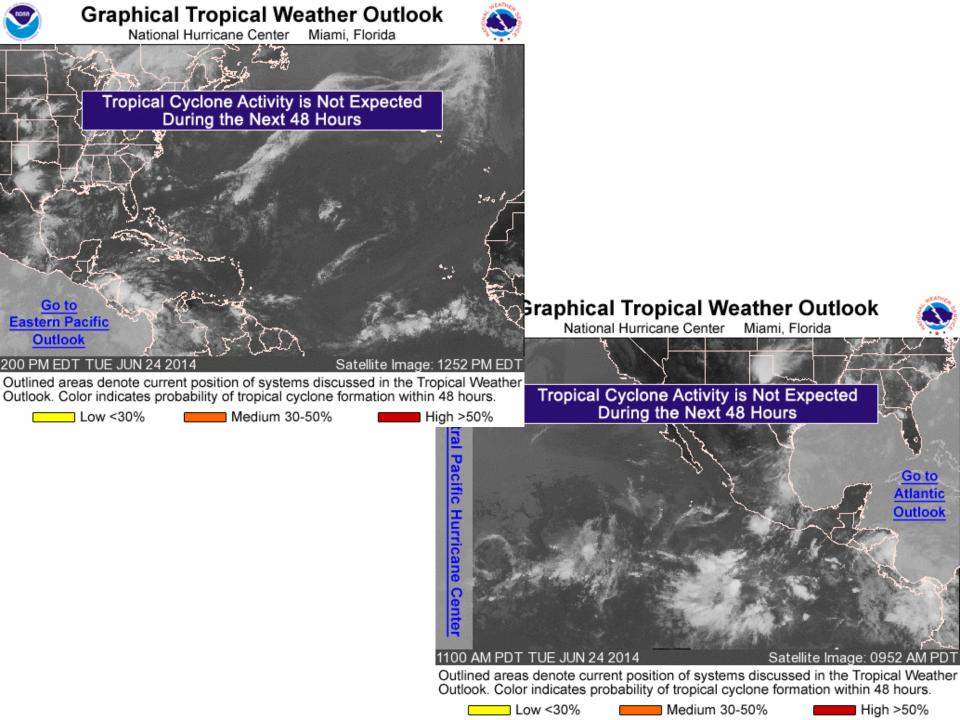


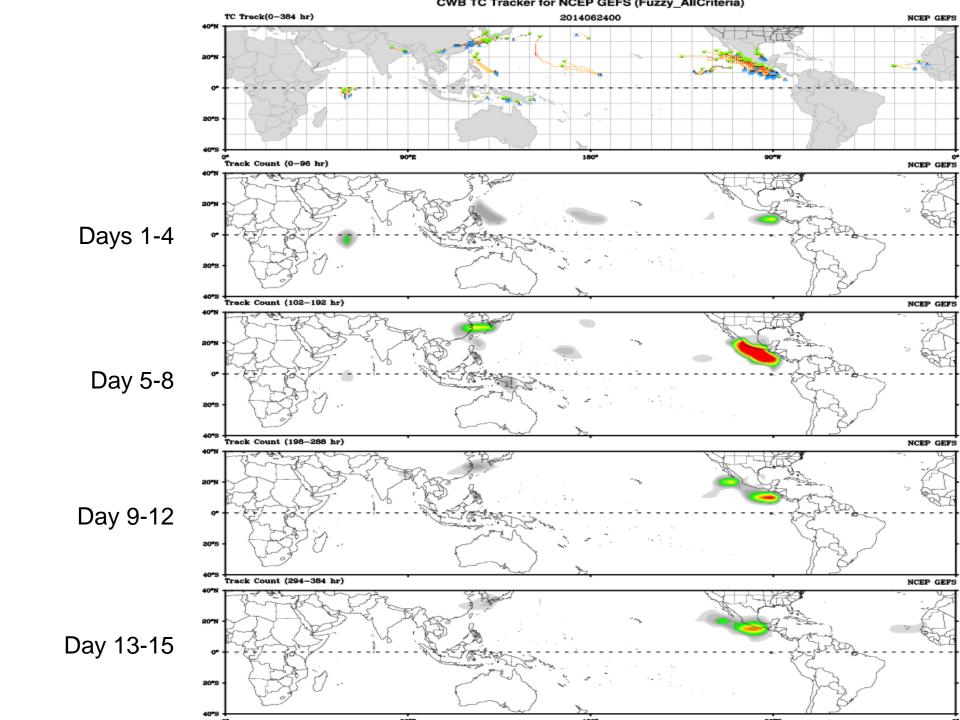
CFS: Anom. PREC Week2: 01-Jul-2014 to 07-Jul-2014 (mm/week)



June Tropical Storm Formation by MJO phase

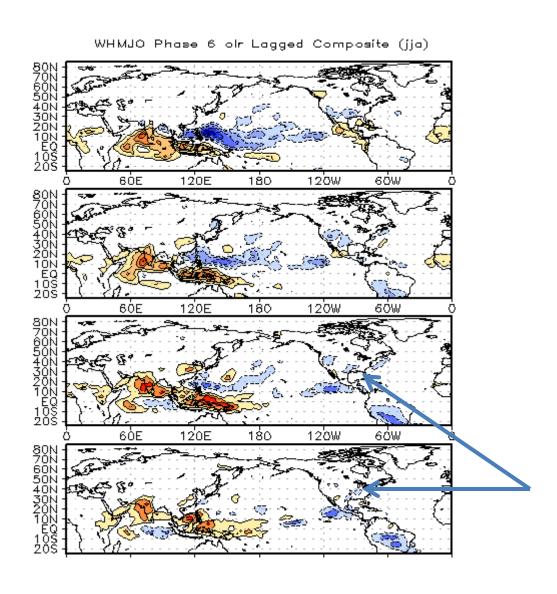


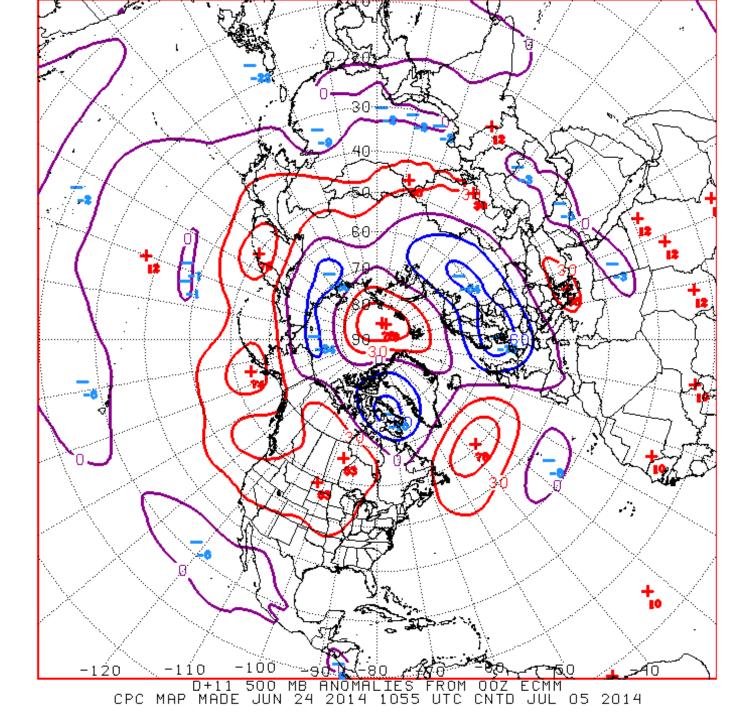




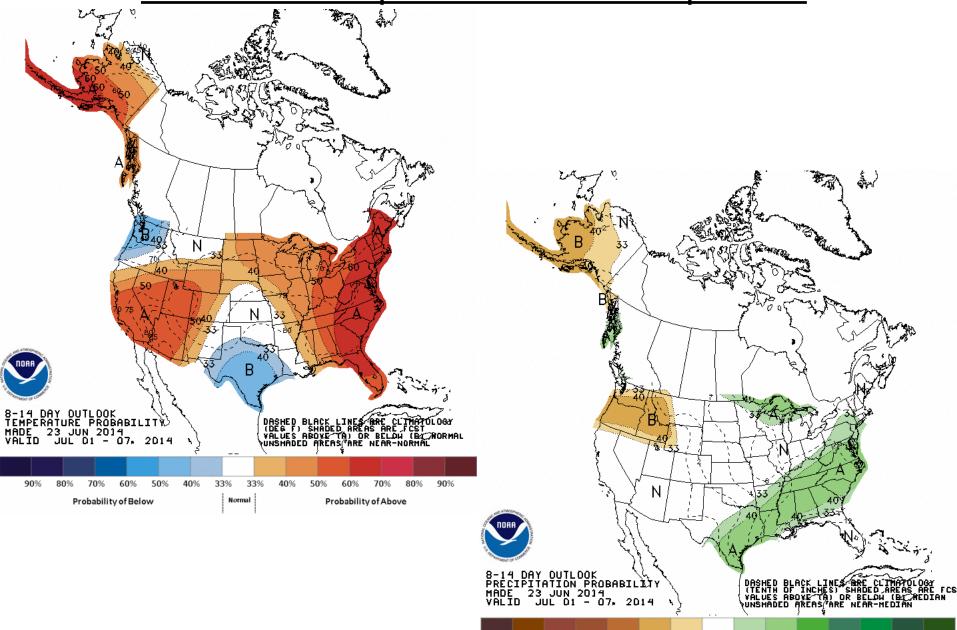
Connections to U.S. Impacts

US Composites based on MJO Phase





Week 2 - Temperature and Precipitation



70%

Probability of Below

33%

Normal

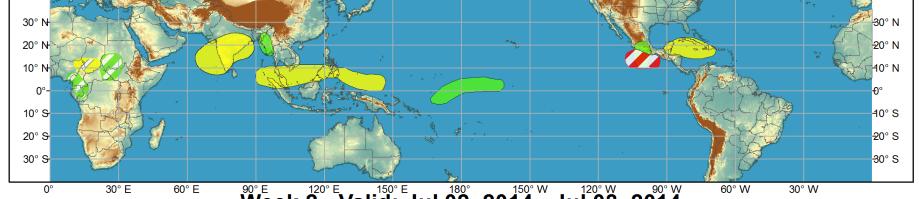
Probability of Above



Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







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