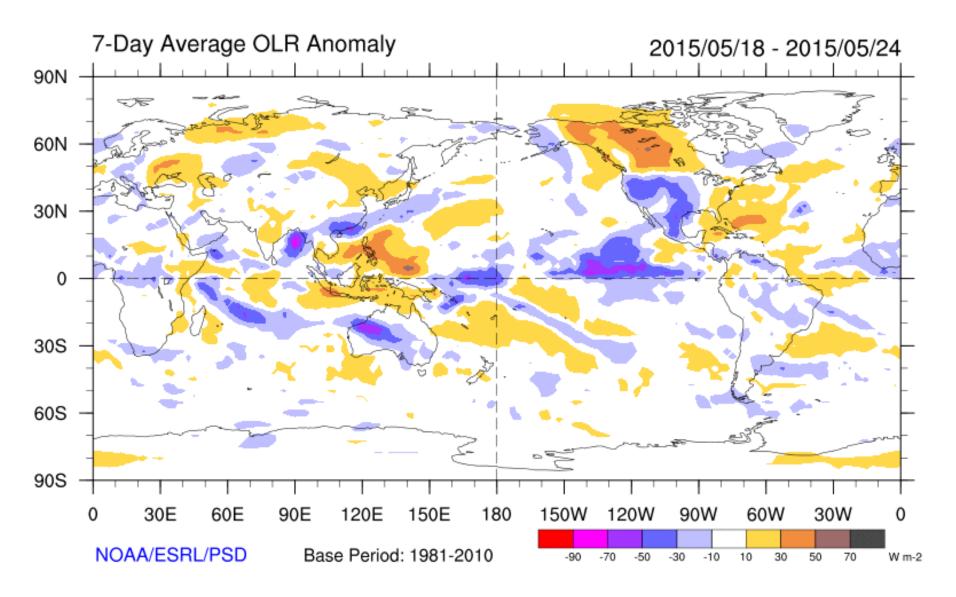
Global Tropics Hazards And Benefits Outlook May 26, 2015

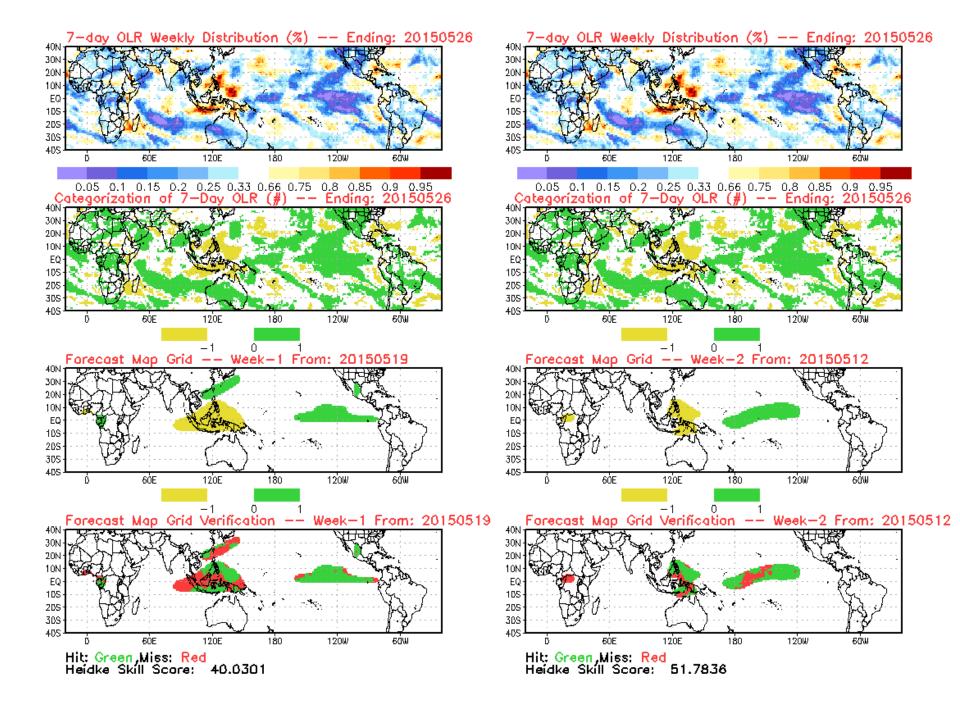
Stephen Baxter

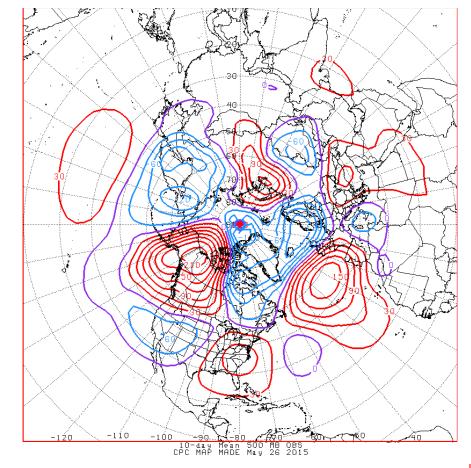
<u>Outline</u>

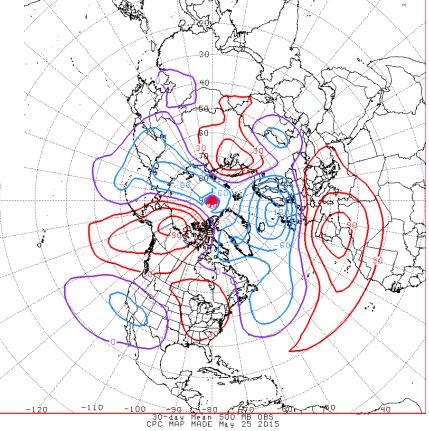
- 1. Review of Recent Conditions
- 2. Synopsis of Climate Modes
- 3. GTH Outlook and Forecast Discussion
- 4. Connections to U.S. Impacts

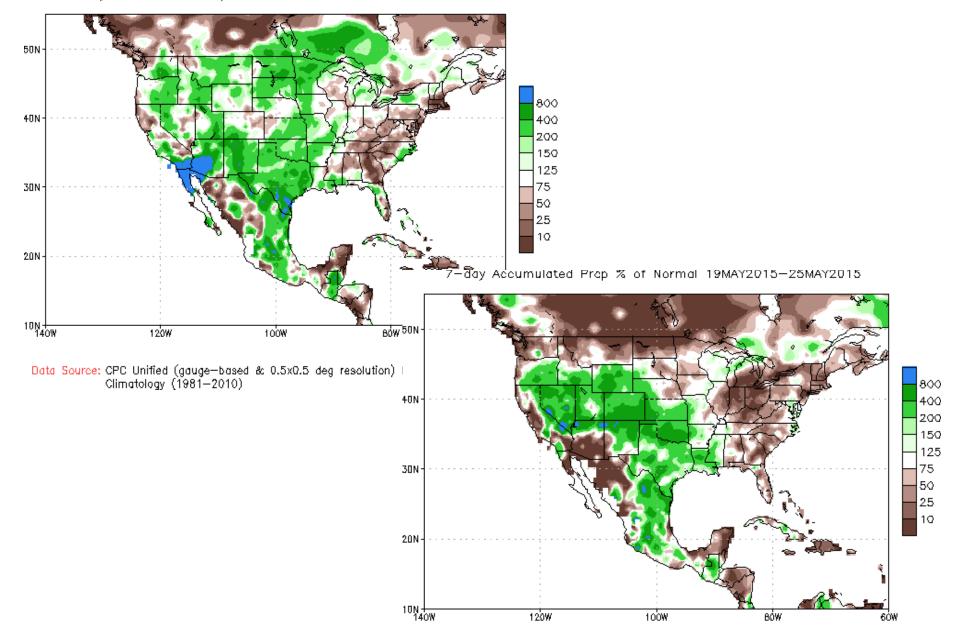


<u>Cool colors</u>: Enhanced rainfall <u>Warm colors</u>: Suppressed rainfall









Data Source: CPC Unified (gauge—based & 0.5x0.5 deg resolution) Precipitation Analysis Climatology (1981—2010)

Synopsis of Climate Modes

ENSO:

- Current: El Niño Advisory
- Outlook: There is an approximately 90% chance that El Niño will continue through Northern Hemisphere summer 2015, and a greater than 80% chance it will last through the year.

MJO and other subseasonal tropical variability:

- The MJO was weak during the past 7 days. Subseasonal variability continues to be dominated the influence of atmospheric Kelvin wave activity.
- Most dynamical model MJO index forecasts depict a strengthening signal over Africa and the Western Hemisphere, although this is likely due to interaction between Kelvin wave activity and El Niño.

Extratropics:

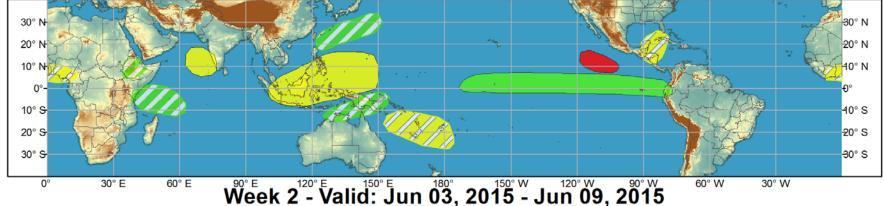
- The extended range forecast for the U.S. is not likely to be largely impacted directly by the MJO.
- Internal, mid-latitude variability is likely to drive much of the pattern of the CONUS along with some potential influence from the Tropics related to El Niño.

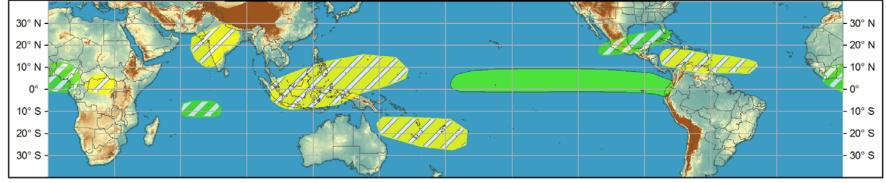


Global Tropics Hazards and Benefits Outlook - Climate Prediction Center









Confidence Moderate Produced: 05/26/2015

Forecaster: Baxter

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.









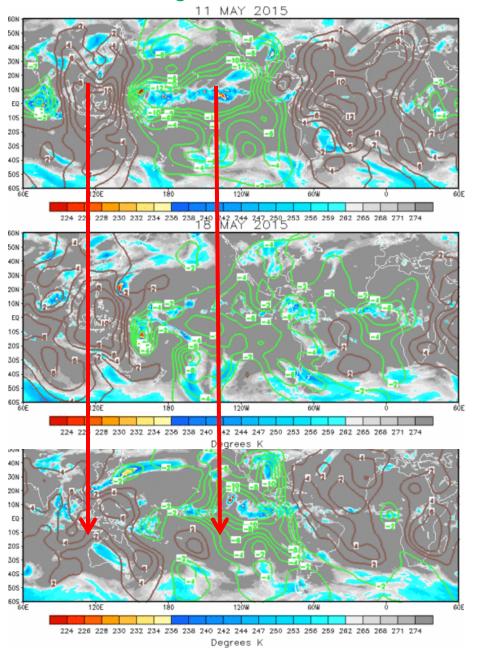






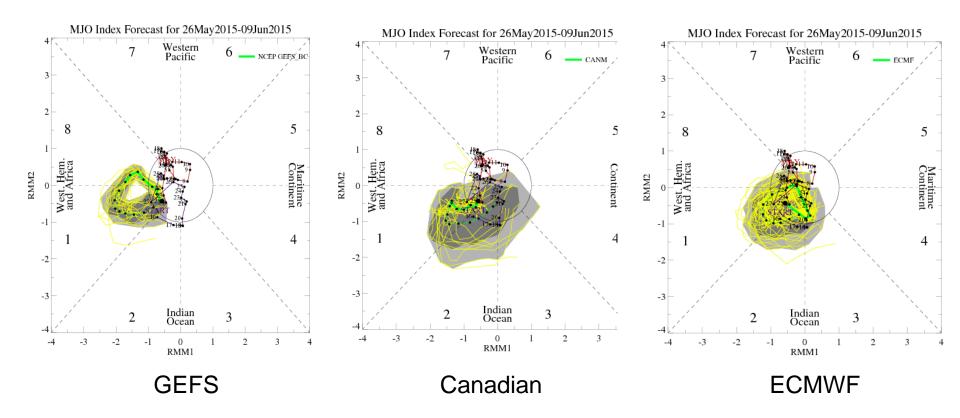
IR Satellite & 200-hpa Velocity Potential Anomalies

Green: Enhanced Divergence Brown: Enhanced Convergence



ENSO signal very apparent, though there is some modulation by Kelvin waves.

MJO Observation/Forecast

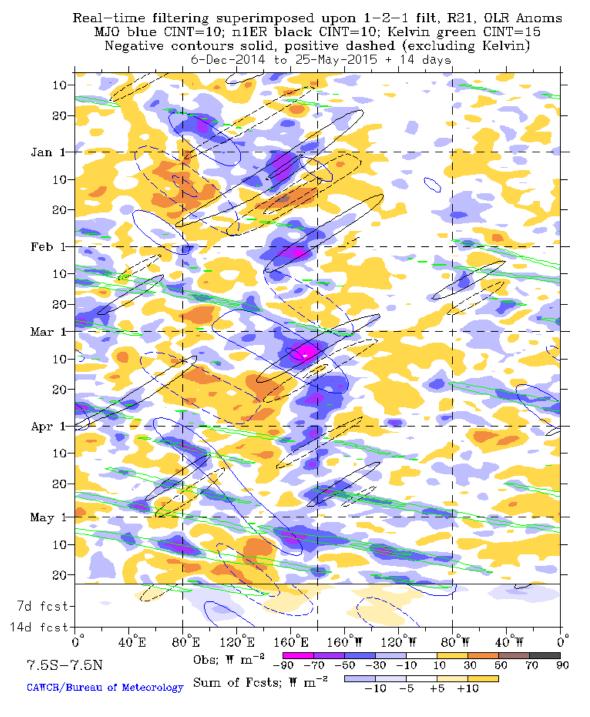


RMM forecasts indicate something other than canonical MJO, likely related to ENSO and Kelvin waves.

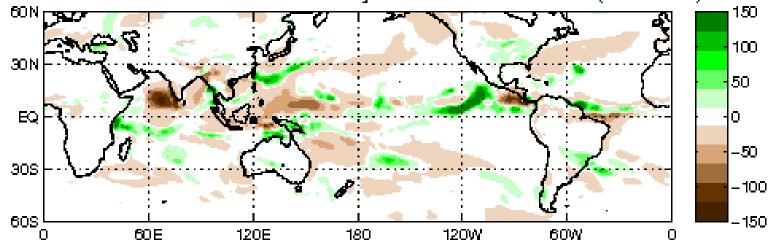
Green contours are propagation of enhanced phases of atmospheric Kelvin waves

Kelvin wave activity prominent over the East Pacific, as well as over the eastern Indian Ocean.

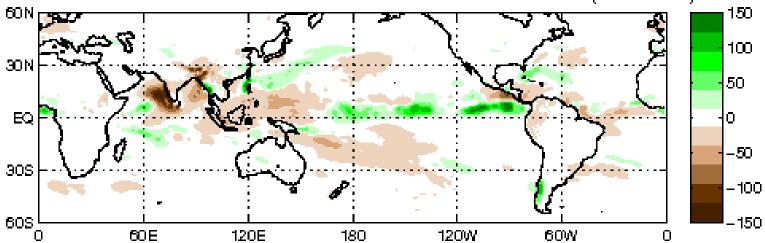
Low frequency is contributing, especially near Date Line.



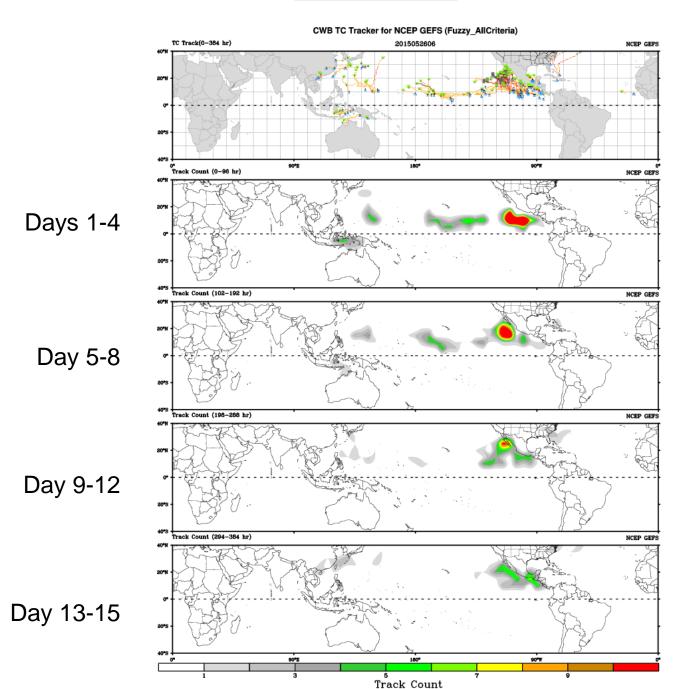
CFS: Anom. PREC Week: 1: 27-May-2015 to 02-Jun-2015 (mm/week)

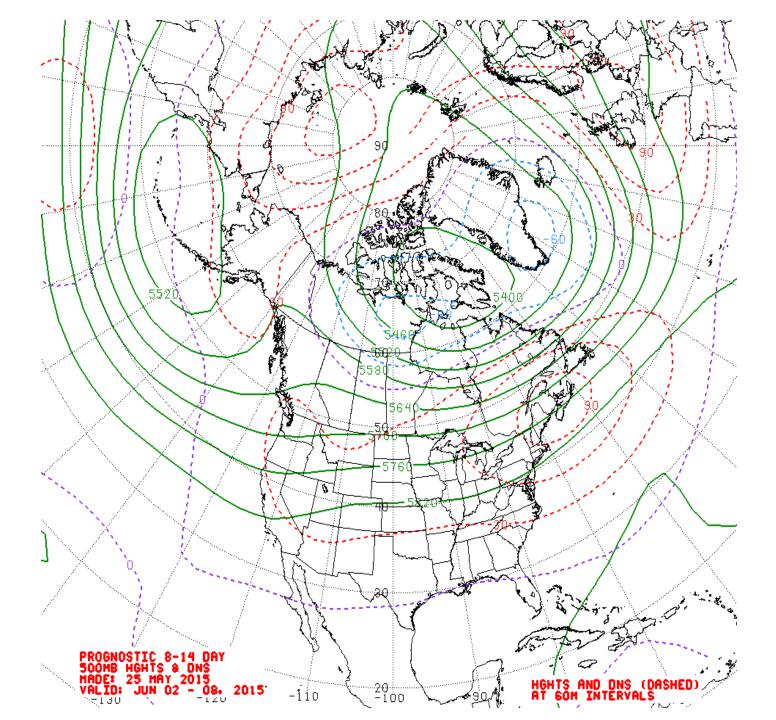


CFS: Anom. PREC Week: 2: 03-Jun-2015 to 09-Jun-2015 (mm/week)

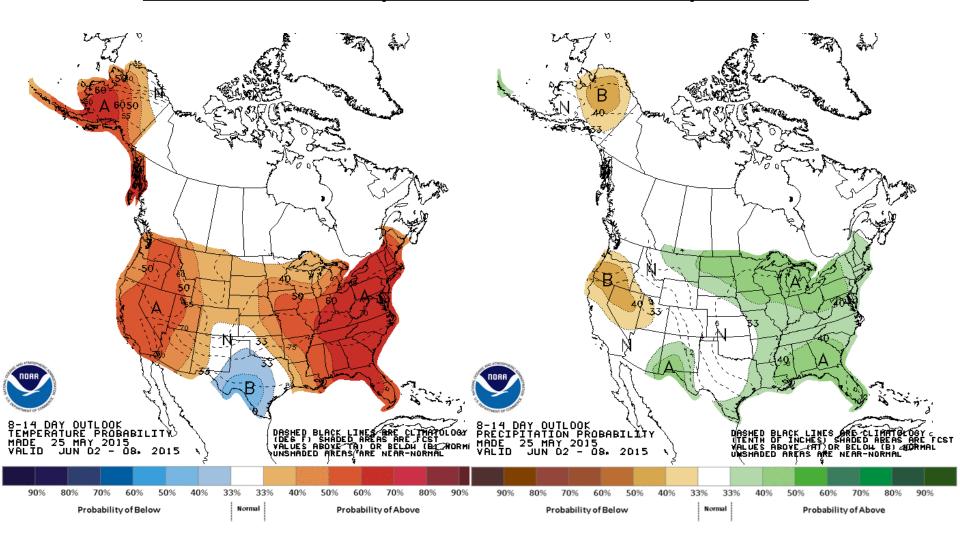


Ensemble GFS





Week 2 - Temperature and Precipitation

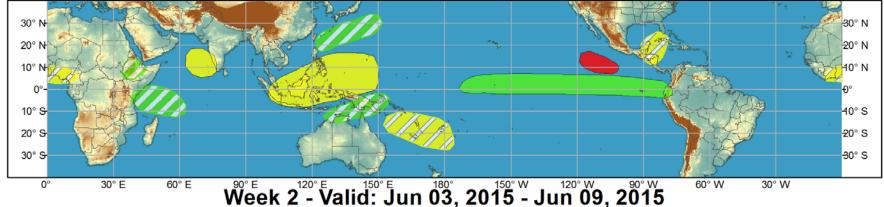




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