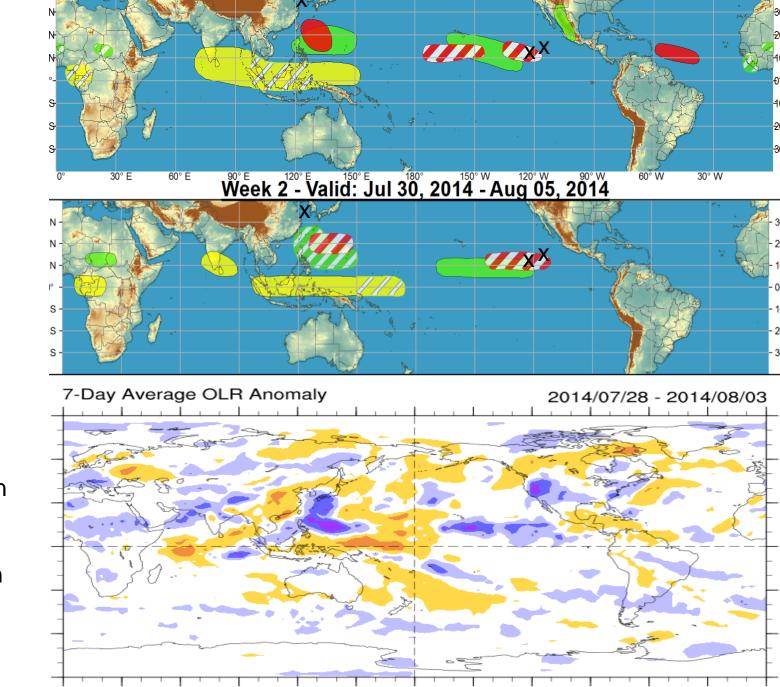
Global Tropics Hazards And Benefits Outlook August 5, 2013

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



Week 1 - Valid: Jul 30, 2014 - Aug 05, 2014

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 remained weak according to the WH-RMM index, with some weakening in the CPC index as well.
- Model forecasts of the MJO are less varied than last week, with most of the models indicating convection over Africa/Western Indian Ocean. Not consistent with robust MJO activity.

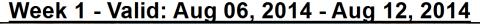
Extratropics:

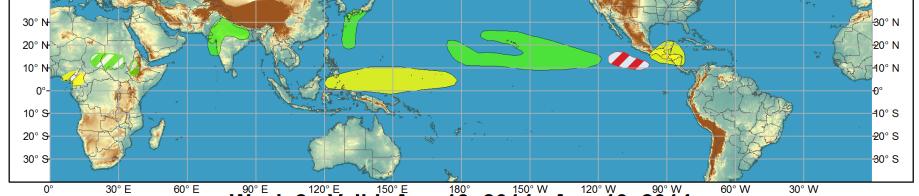
• Kelvin Waves and persistent background state are likely to have an impact in the shorter term forecasts with increased moisture across the monsoon region and the Southeast, and warm conditions across the Pacific Northwest and Alaska.



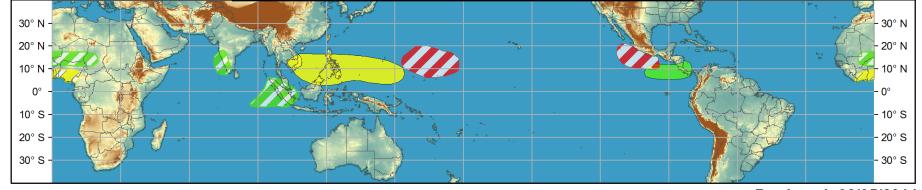
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Aug 13, 2014 - Aug 19, 2014



Confidence High Moderate Produced: 08/05/2014

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.

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.







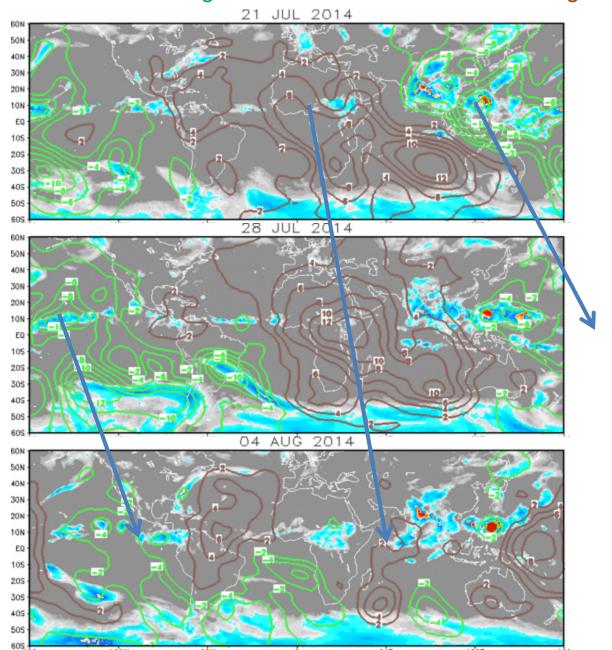




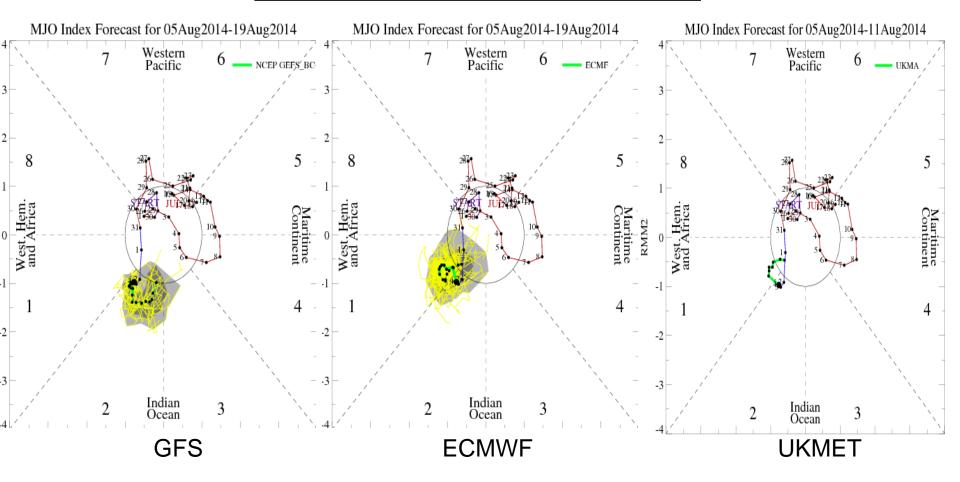


IR Satellite & 200-hpa Velocity Potential Anomalies

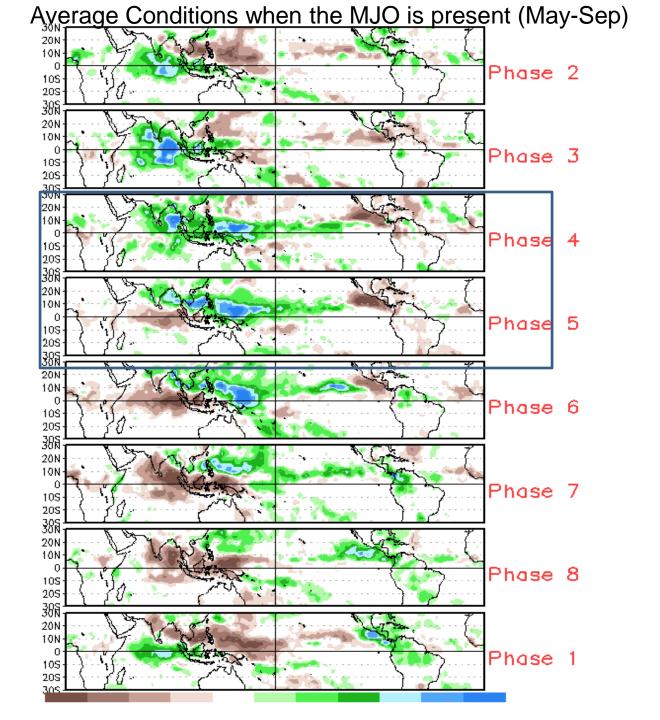
Green: Enhanced Divergence Brown: Enhanced Convergence



MJO Observation/Forecast

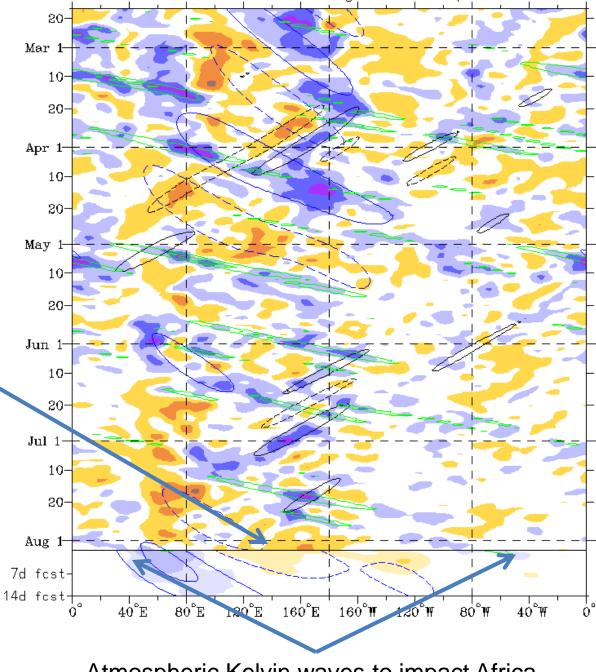


Signal is weak and not likely associated a current or emerging MJO.



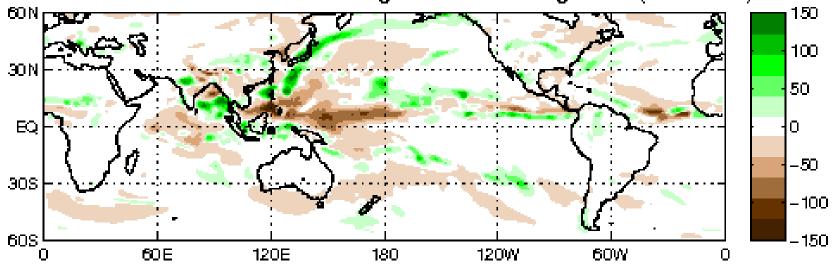
Equatorial Rossby Wave activity likely to impact Maritime Continent.

Some models indicate constructive interference of KW and ERW into Week-2.

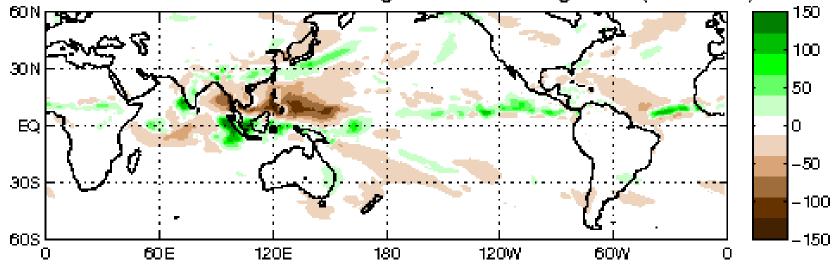


Atmospheric Kelvin waves to impact Africa.

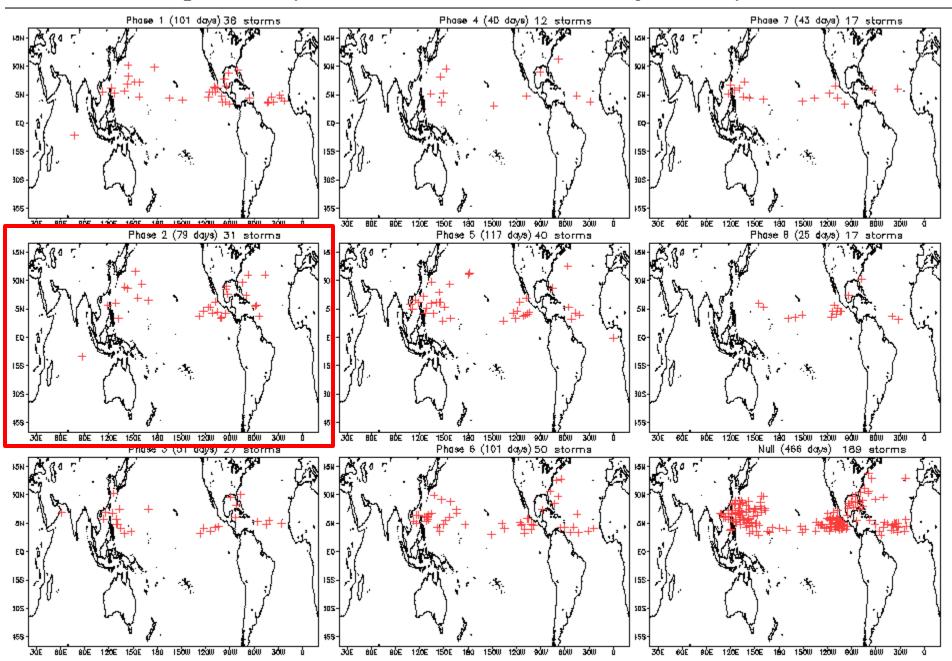
CFS: Anom. PREC Week1: 05-Aug-2014 to 11-Aug-2014 (mm/week).

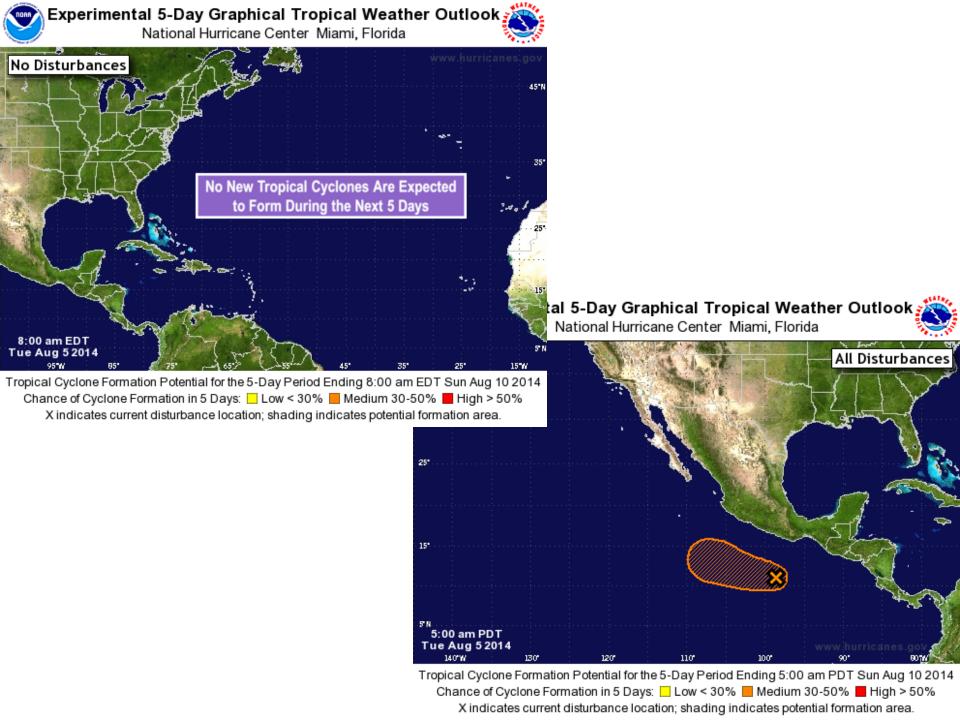


CFS: Anom. PREC Week2: 12-Aug-2014 to 18-Aug-2014 (mm/week)



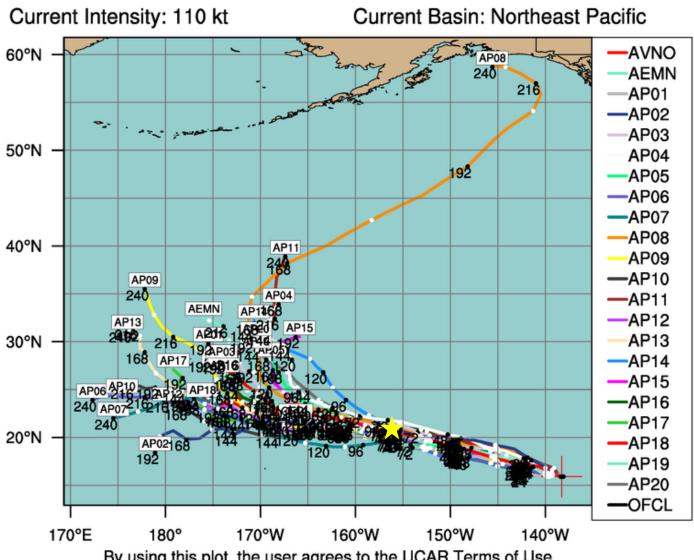
August Tropical Storm Formation by MJO phase





MAJOR HURRICANE ISELLE (EP09)

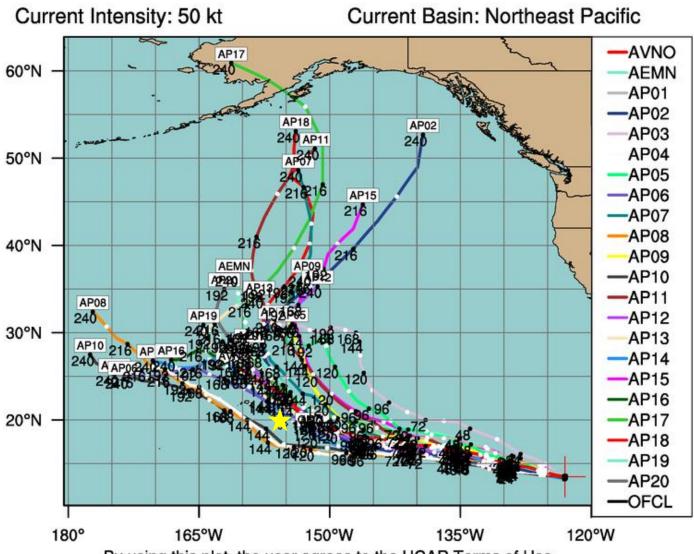
NCEP GFS Ensemble track guidance initialized at 0600 UTC, 05 August 2014





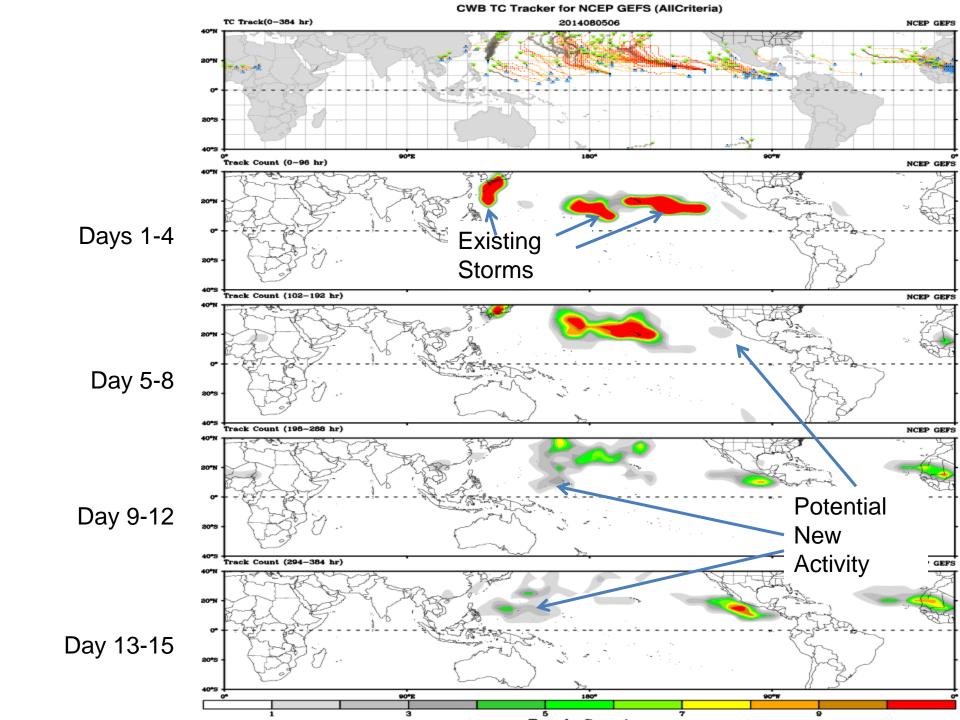
TROPICAL STORM JULIO (EP10)

NCEP GFS Ensemble track guidance initialized at 0600 UTC, 05 August 2014

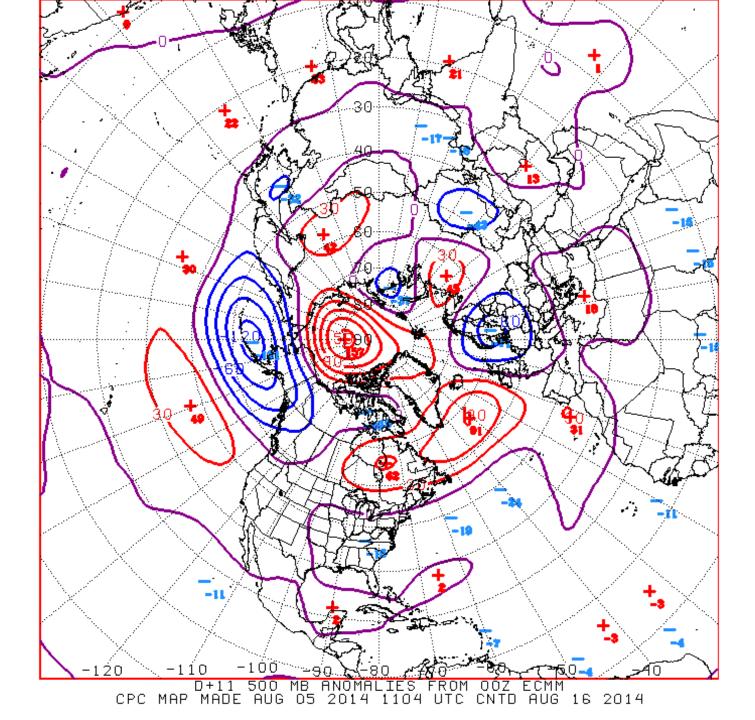


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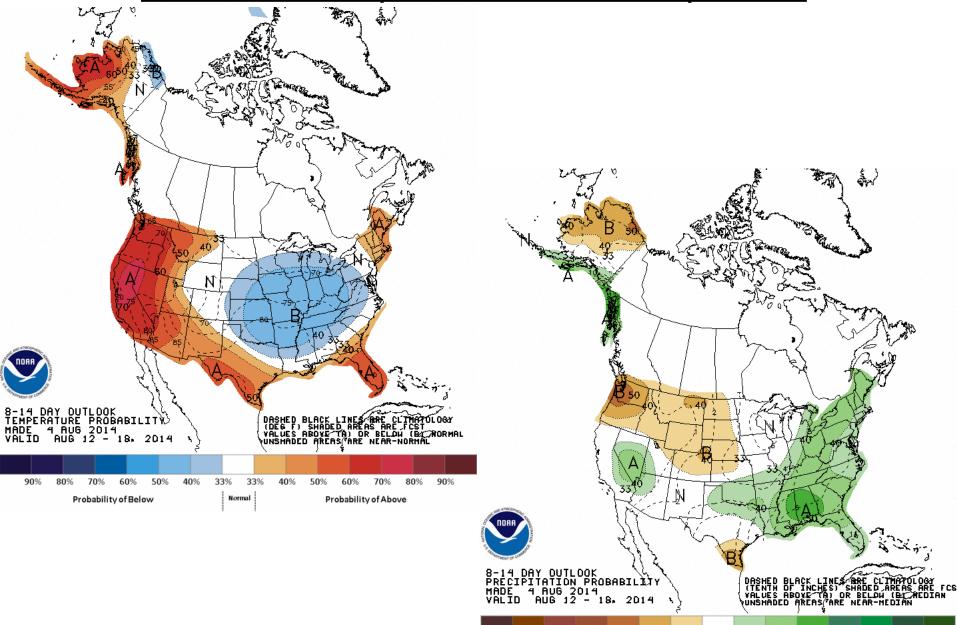




Connections to U.S. Impacts



Week 2 - Temperature and Precipitation



70%

Probability of Below

33%

Normal

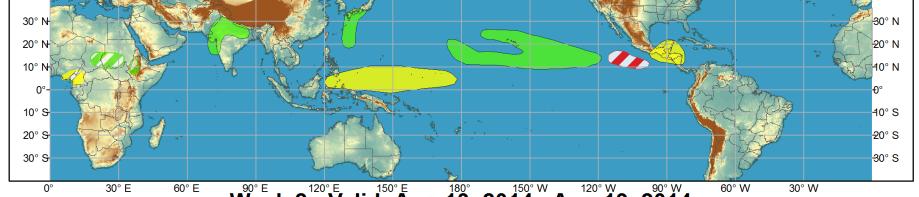
Probability of Above



Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







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Produced: 08/05/2014 Confidence High Moderate Forecaster: Rosencrans

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