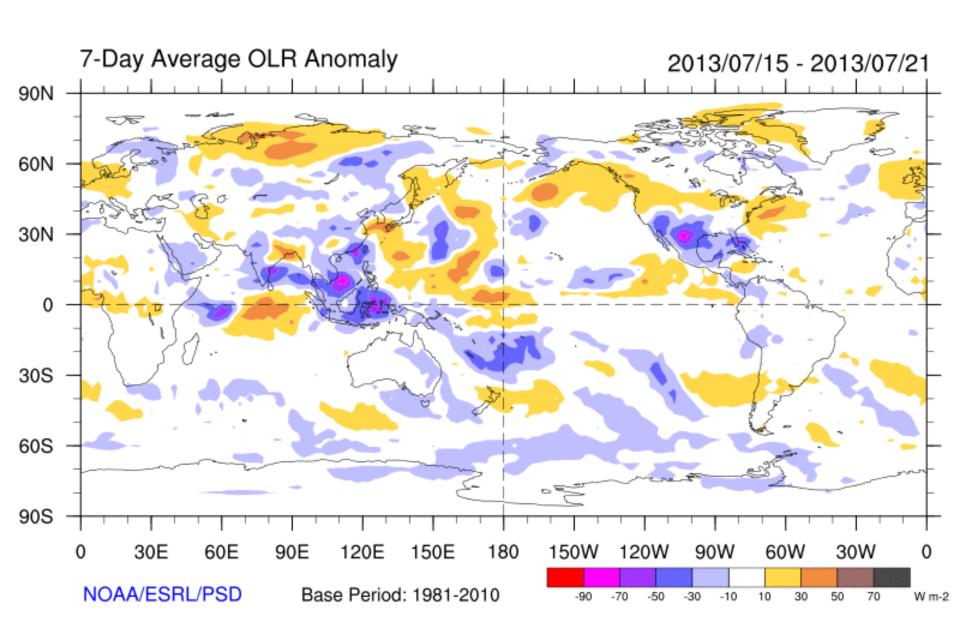
Global Tropics Hazards And Benefits Outlook July 23, 2013

Adam Allgood

<u>Outline</u>

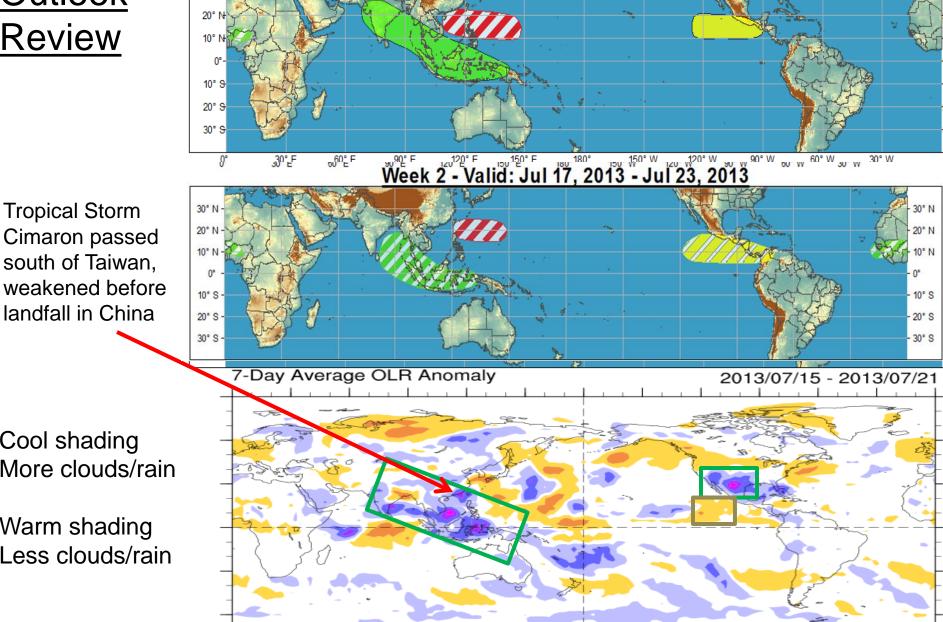
- 1. Review of Recent Conditions
- 2. Synopsis of Climate Modes
- 3. GTH Outlook and Forecast Discussion
- 4. Connections to U.S. Impacts



Outlook Review

Tropical Storm

30° N



Week 1 - Valid: Jul 17, 2013 - Jul 23, 2013

Cool shading More clouds/rain

Warm shading Less clouds/rain

Synopsis of Climate Modes

ENSO:

• ENSO-neutral conditions are favored to continue into Northern Hemisphere fall 2013

MJO and other subseasonal tropical variability:

- The MJO remained active over the past week, although influence from other modes of tropical intraseasonal variability have contributed to a noiser appearance in the global tropical circulation.
- Dynamical model MJO index forecasts generally maintain a weak signal due to influence from other modes, but continued eastward propagation of an MJO signal over the western Pacific Ocean remains apparent.

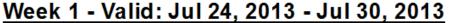
Extratropics:

• The extended range forecast for the U.S. tilts the odds towards below-median temperatures and above-median precipitation over the eastern CONUS, contrasting with above-median temperatures over the interior West. Below-median precipitation is favored over the central and southern Plains (following heavy rainfall this week).



Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Jul 31, 2013 - Aug 06, 2013



Confidence Produced: 07/23/2013
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.

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.







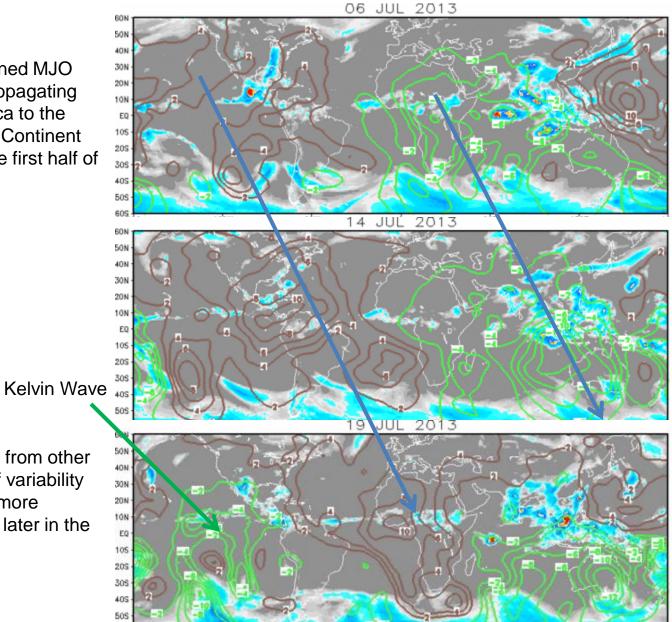




IR Satellite & 200-hpa Velocity Potential Anomalies

Green: Enhanced Divergence Brown: Enhanced Convergence

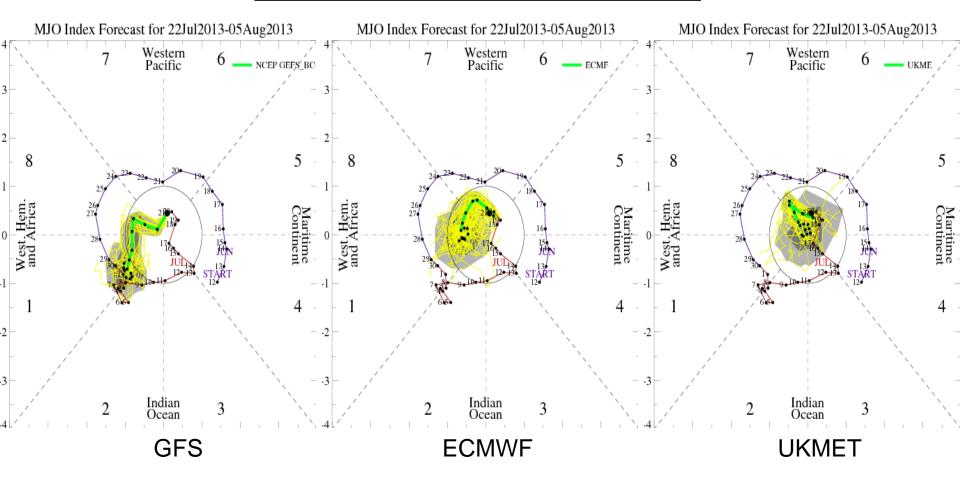
Well-defined MJO signal propagating from Africa to the **Maritime Continent** during the first half of July.



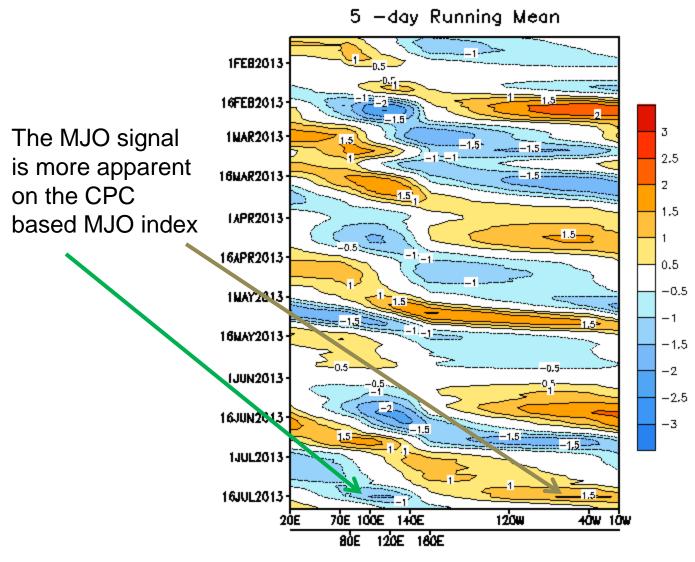
120W

Influence from other modes of variability became more apparent later in the period.

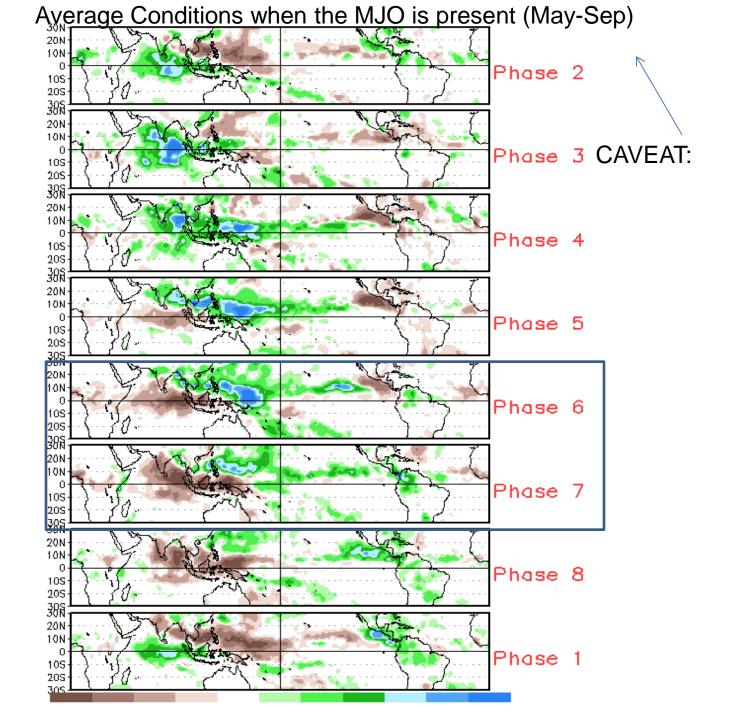
MJO Observation/Forecast



Both the GFS and European support eastward propagation of a weak (influenced by other modes) MJO signal across the Pacific during the upcoming two weeks

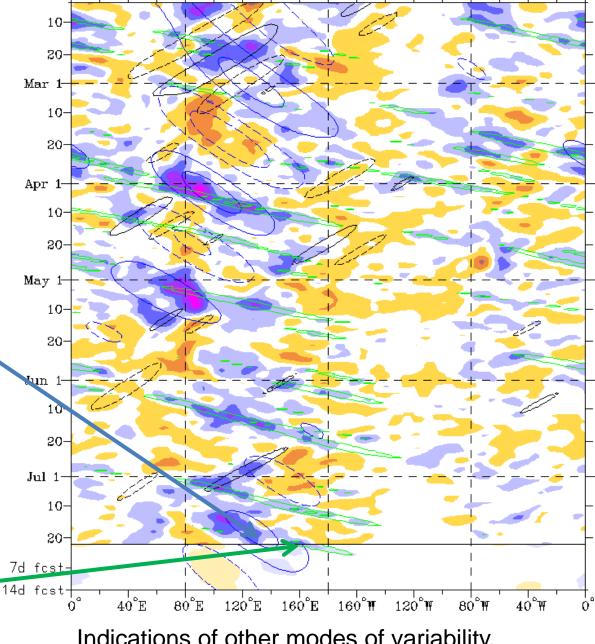


Data updated through 23 Jul 2013



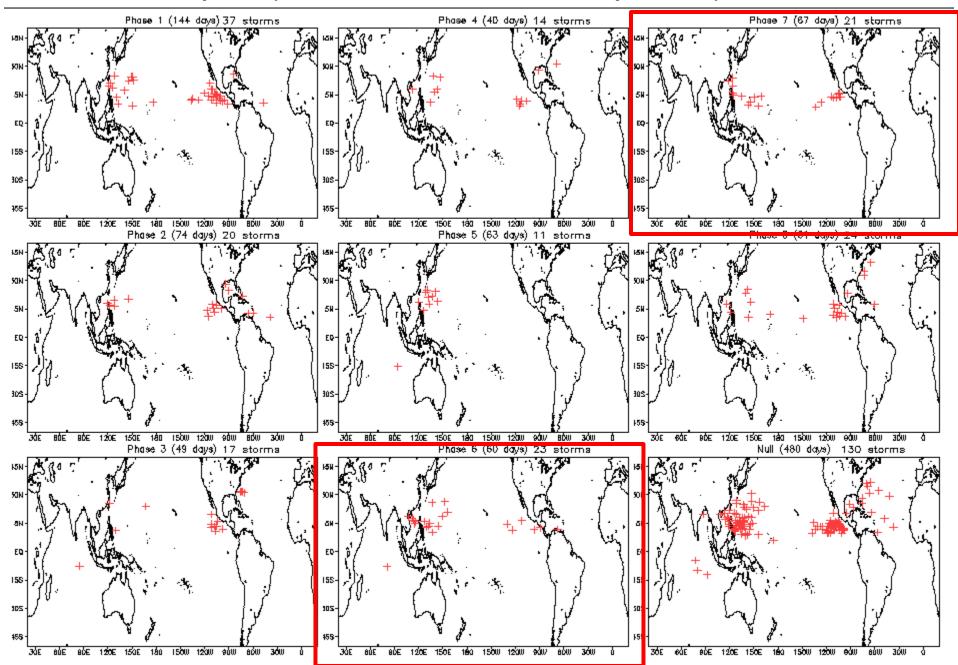
Active phase of the MJO is forecasted to propagate into the western Pacific.

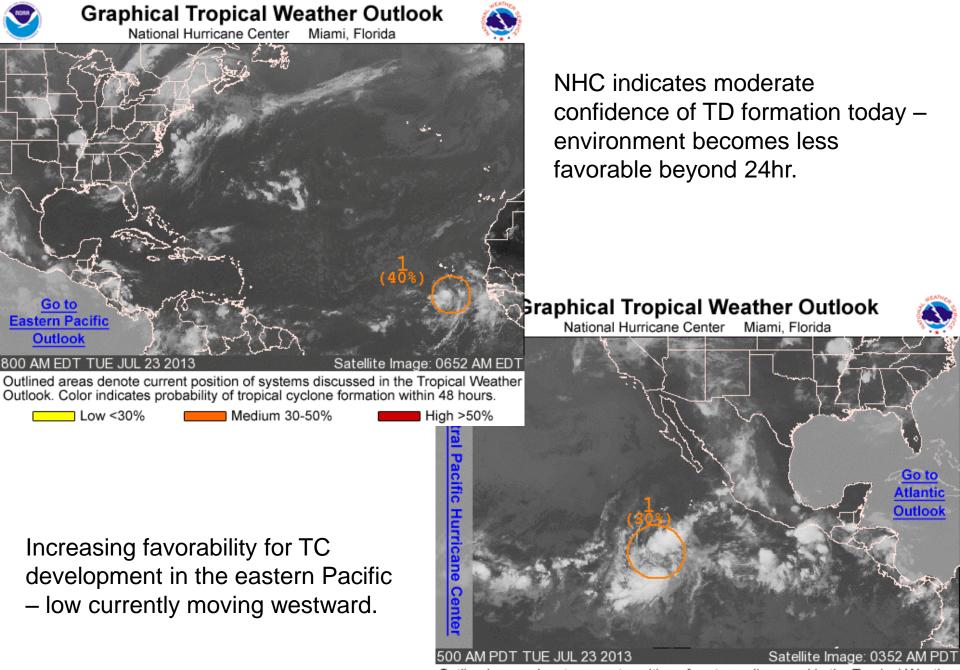
Atmospheric Kelvin waves to impact Americas



Indications of other modes of variability, including subseasonally enhanced convection over the Maritime Continent.

July Tropical Storm Formation by MJO phase



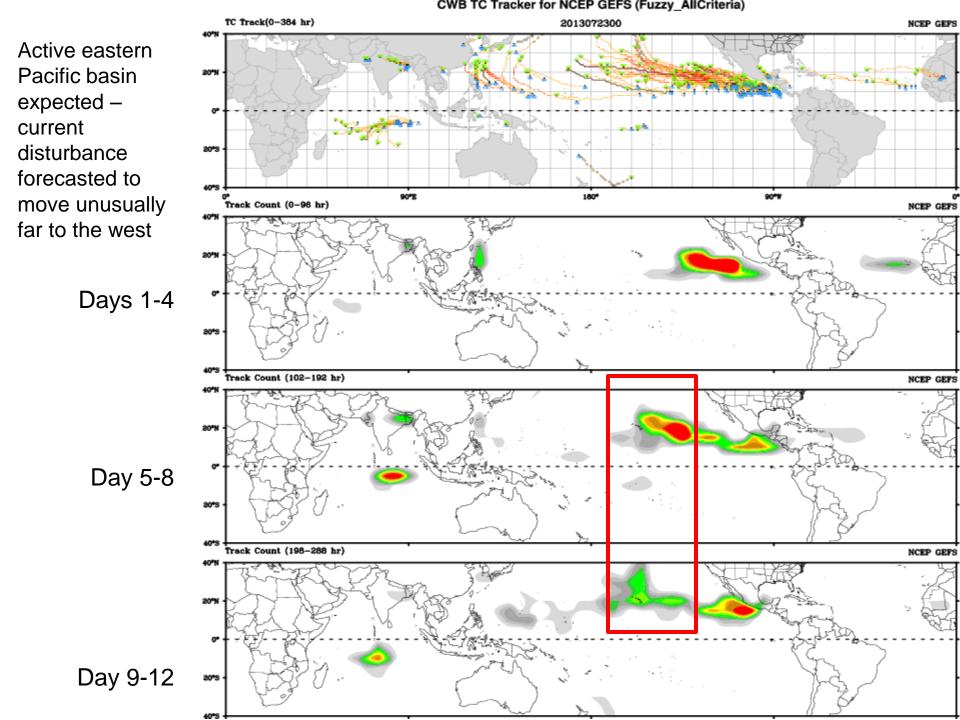


Low <30%</p>

Outlined areas denote current position of systems discussed in the Tropical Weather Outlook. Color indicates probability of tropical cyclone formation within 48 hours.

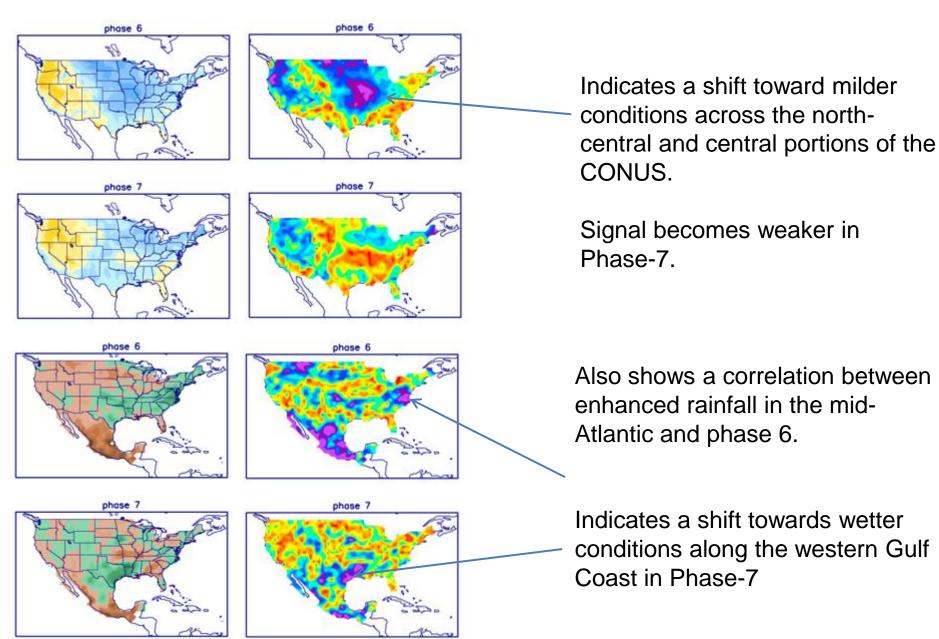
Medium 30-50%

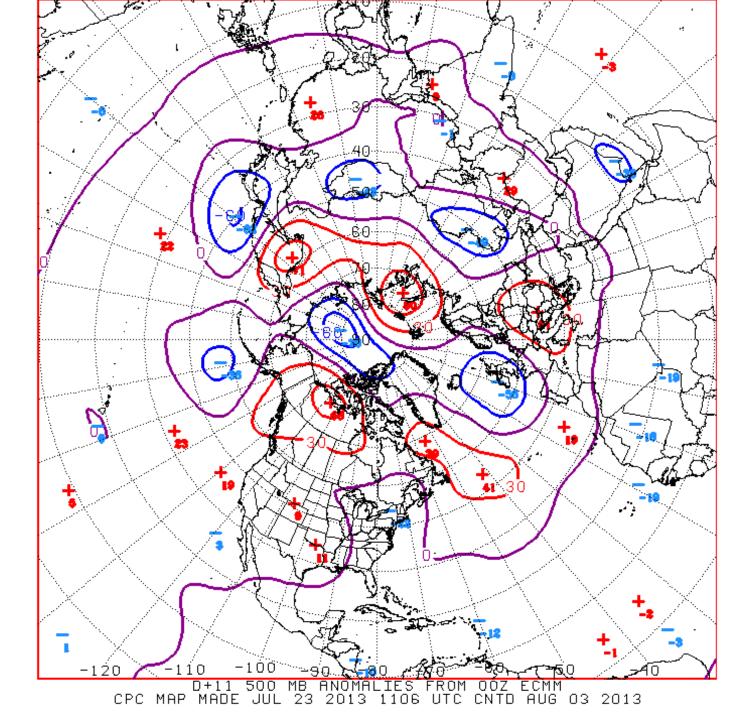
High >50%



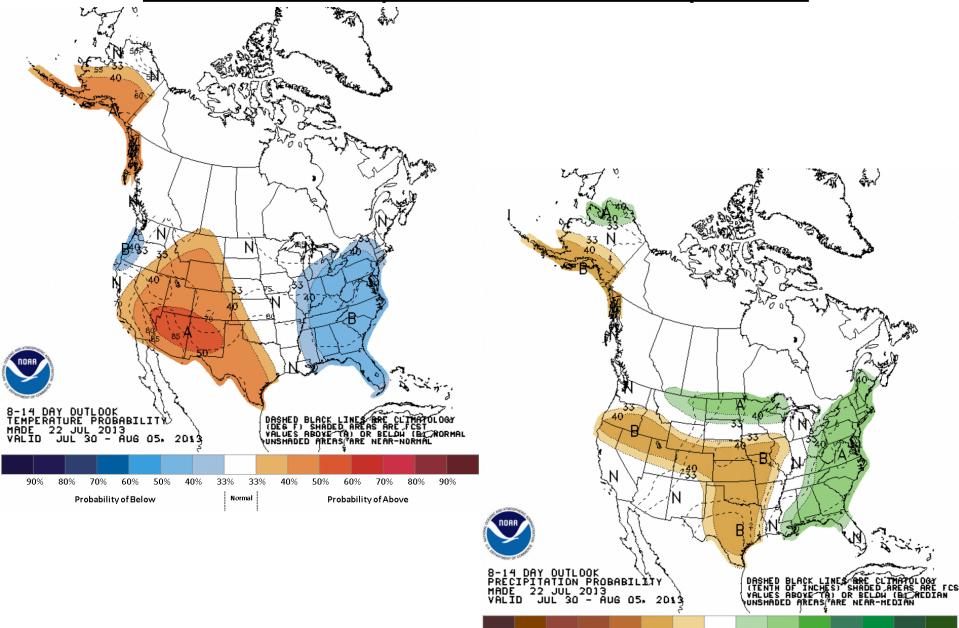
Connections to U.S. Impacts

US Composites based on MJO Phase





Week 2 - Temperature and Precipitation



70%

Probability of Below

33%

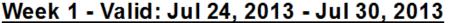
Normal

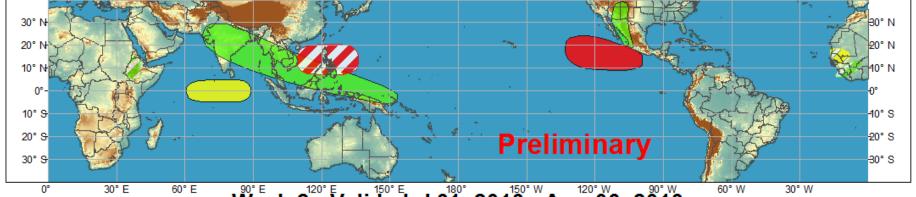
Probability of Above



Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







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