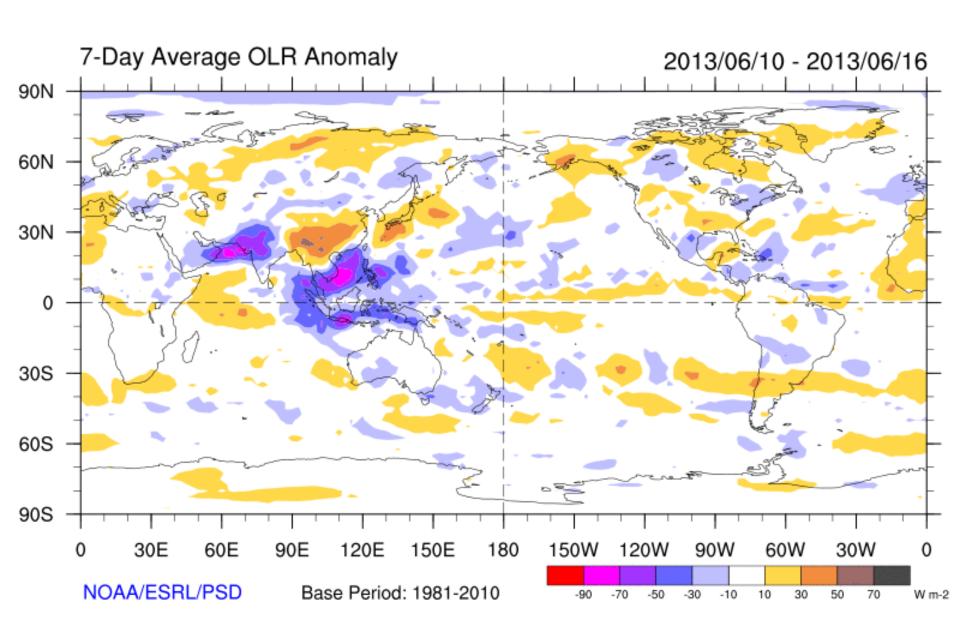
Global Tropics Hazards And Benefits Outlook June 18, 2013

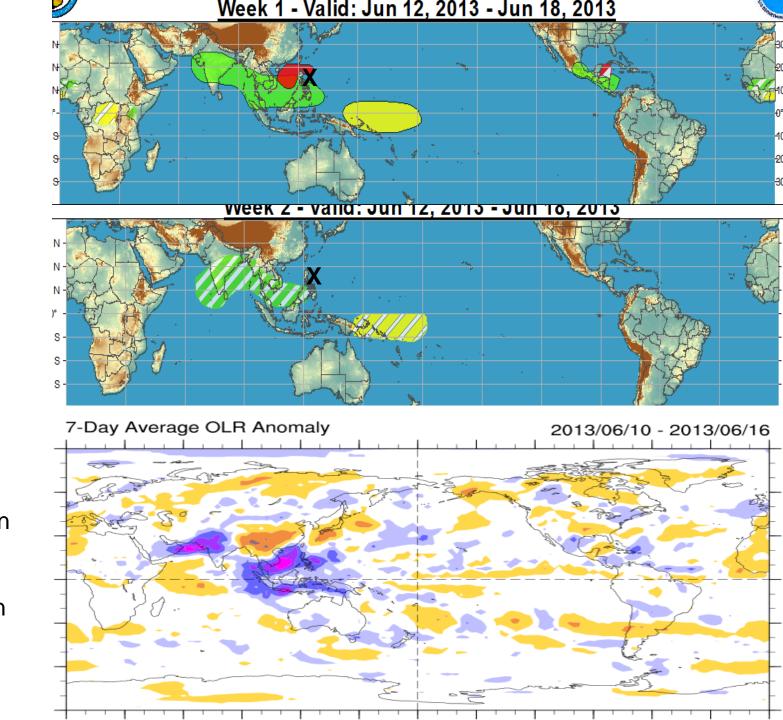
Matthew Rosencrans

<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:

• ENSO-neutral is favored through the Northern Hemisphere summer 2013

MJO and other subseasonal tropical variability:

- The MJO strengthened during the past week, with enhanced convection over the Maritime Continent and south Asia.
- Model MJO index forecasts indicate propagation of the MJO across the Western Pacific to the central Pacific by the end of Week-2
- Atmospheric Kelvin waves playing a role.

Tropics:

- Tropics are active, TD2 in ATL, TS Leepi over WPAC.
- Threat for TC development
 - •EPAC late Week-1 (Kelvin wave) and Week-2 (MJO)
 - •WPAC Week-1 (MJO), lower threat Week-2

Impacts:

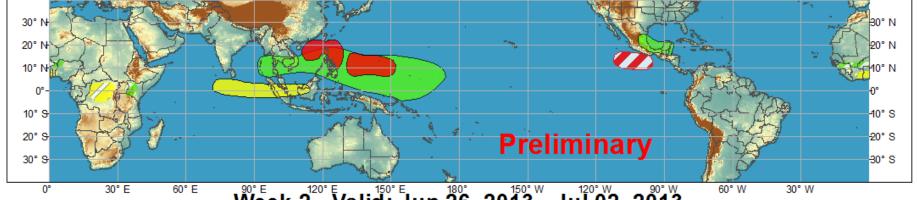
- MJO likely to increase threat of EPAC TC development during Week-2.
- Typically leads to increased moisture over Southwest the next 7-14 days (Week-3 from now).



Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Jun 26, 2013 - Jul 02, 2013



Confidence High Moderate Produced: 06/18/2013

Forecaster: Rosencrans

Tropical Cyclone Formation Above-average rainfall

Development of a tropical cyclone that eventually reaches tropical storm/cyclone strength.

Below-average rainfall

Weekly total rainfall in the upper third of the historical range.

Above-normal temperatures

Weekly total rainfall in the lower third of the historical range.

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.





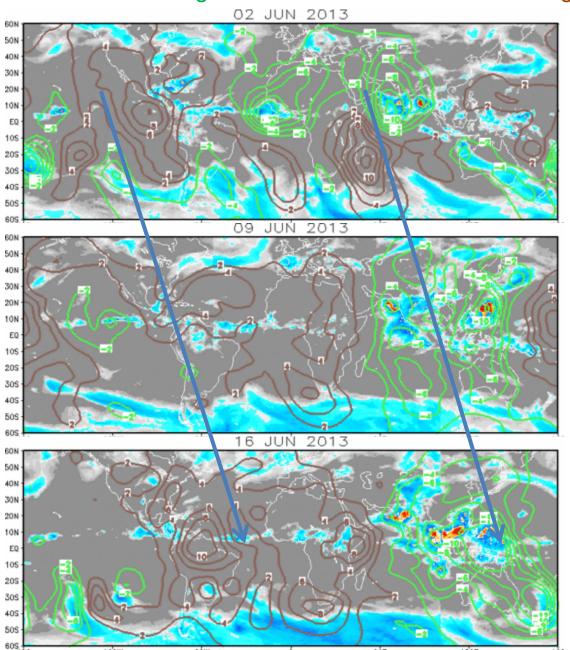




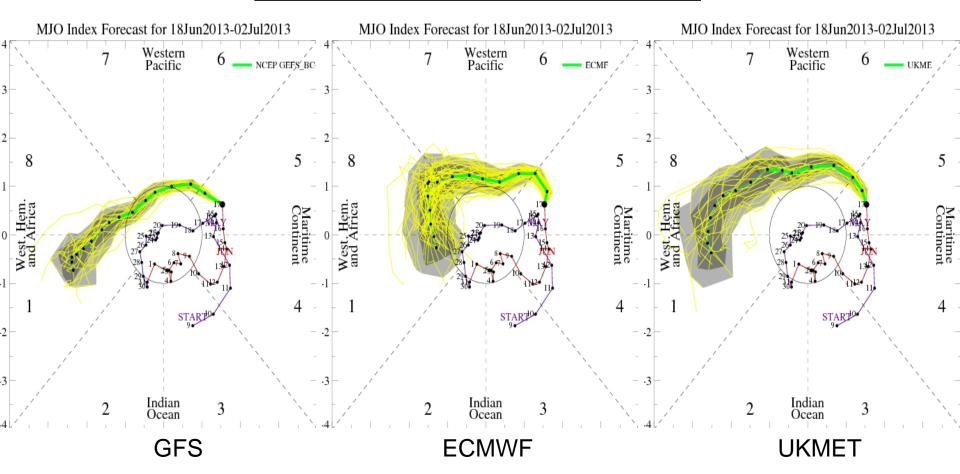


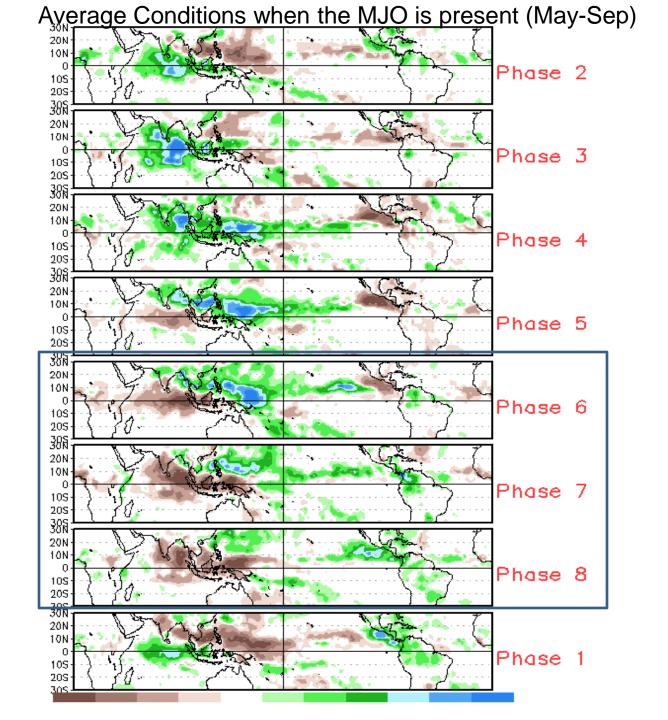
IR Satellite & 200-hpa Velocity Potential Anomalies

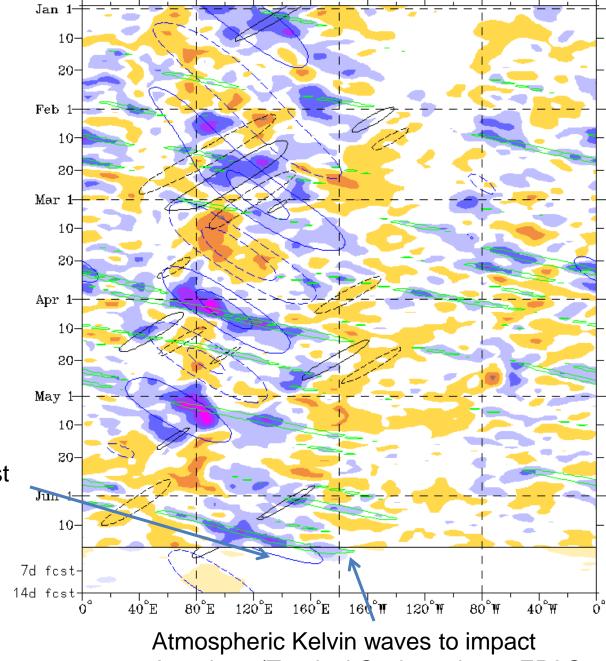
Green: Enhanced Divergence Brown: Enhanced Convergence



MJO Observation/Forecast

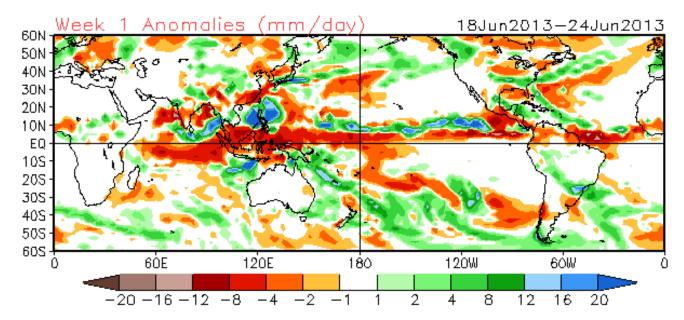


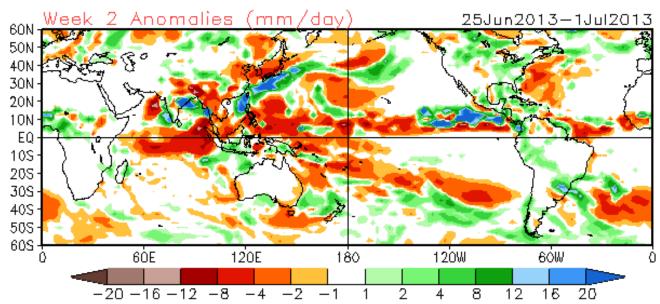




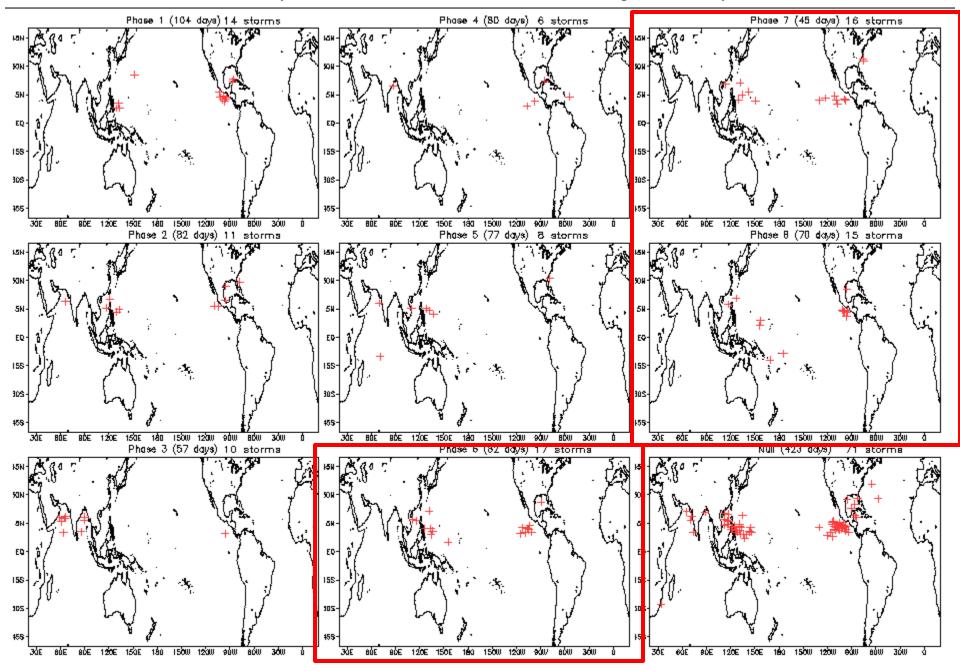
Active phase of the MJO forecast to impact Western Pacific.

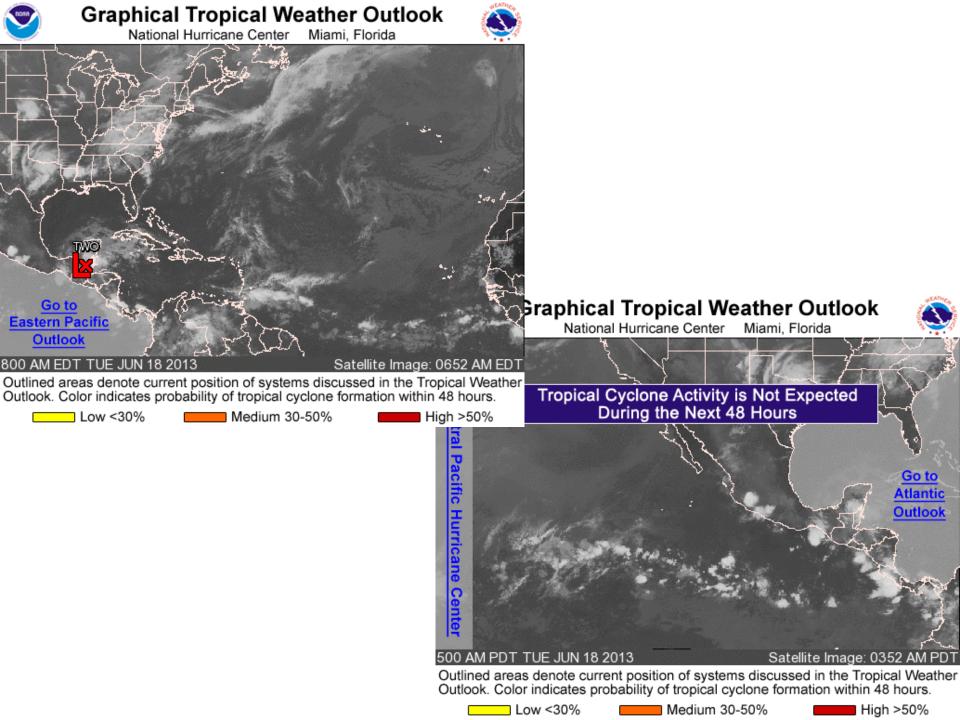
Atmospheric Kelvin waves to impact Americas (Tropical Cyclone threat EPAC, late Week-1).

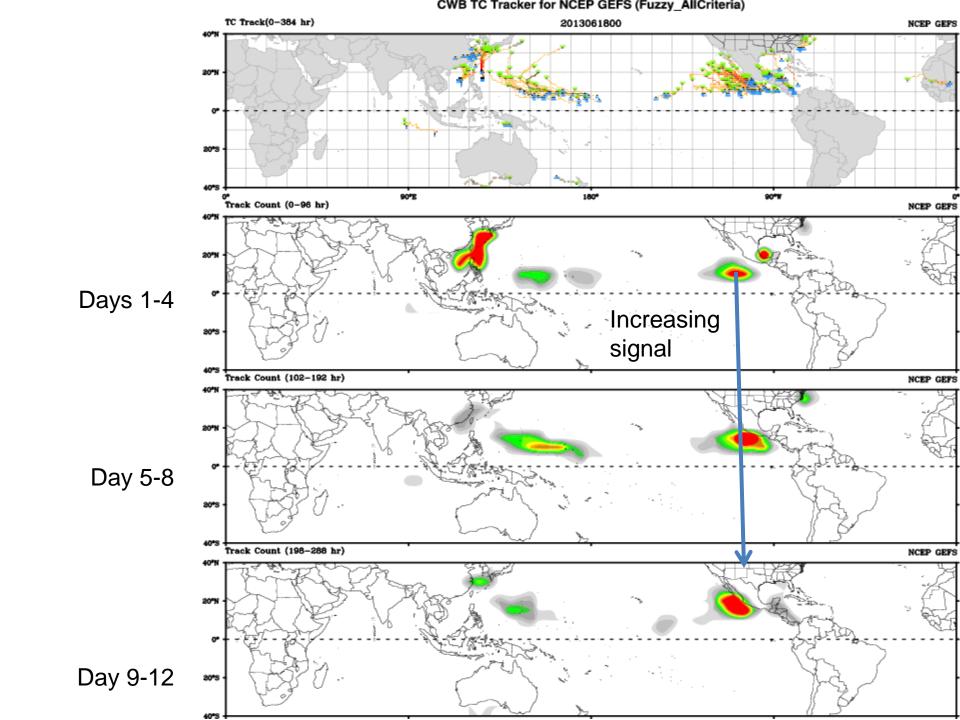




June Tropical Storm Formation by MJO phase

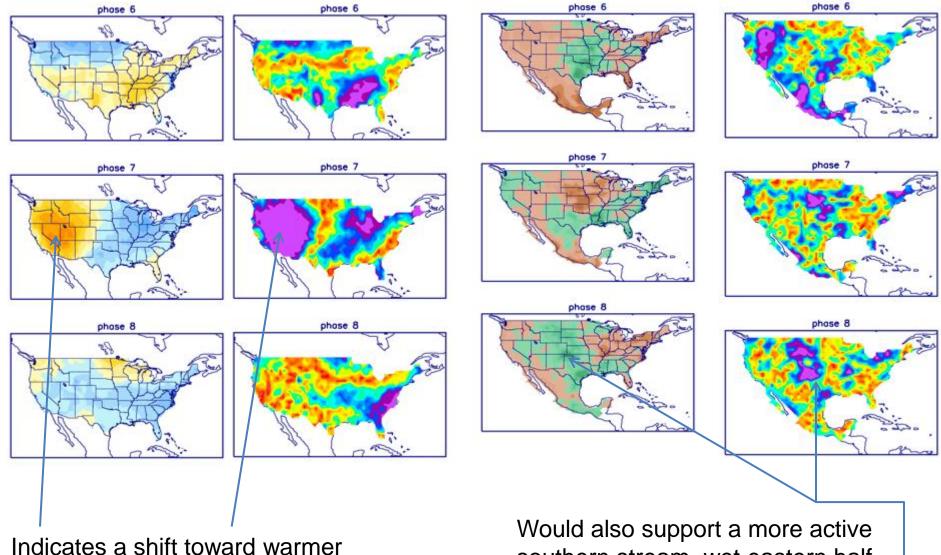






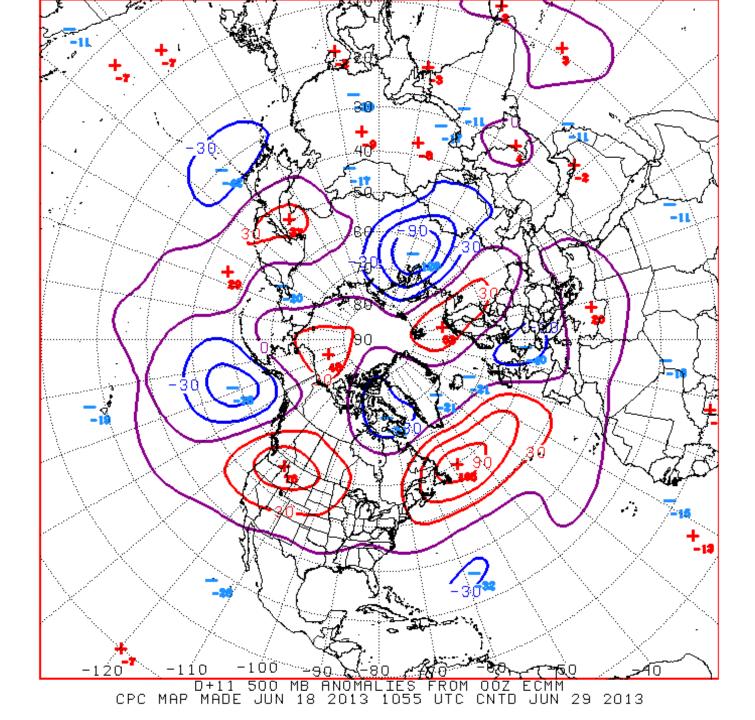
Connections to U.S. Impacts

US Composites based on MJO Phase

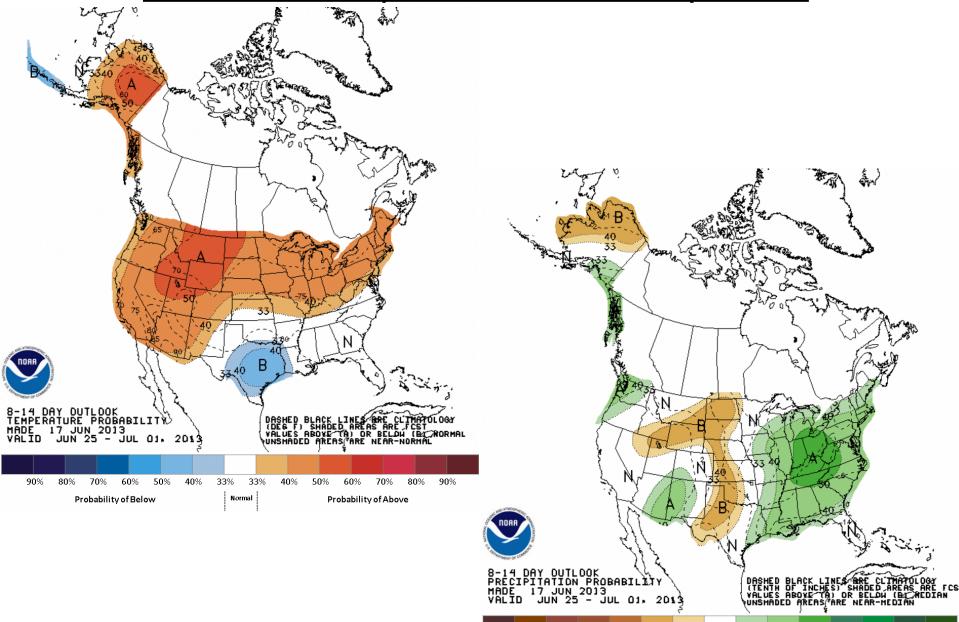


Indicates a shift toward warmer conditions across the western of the CONUS, Week-1/2.

Would also support a more active southern stream, wet eastern half, and some moisture return later Week-2/3 to Rockies.



Week 2 - Temperature and Precipitation



70%

Probability of Below

33%

Normal

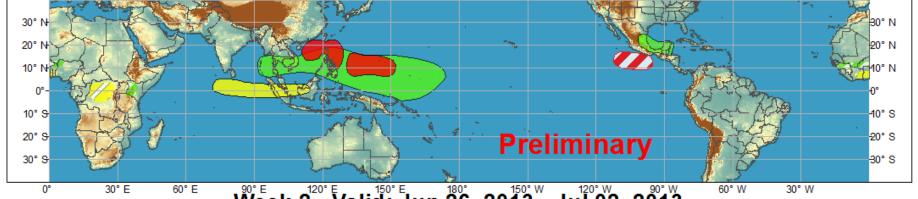
Probability of Above



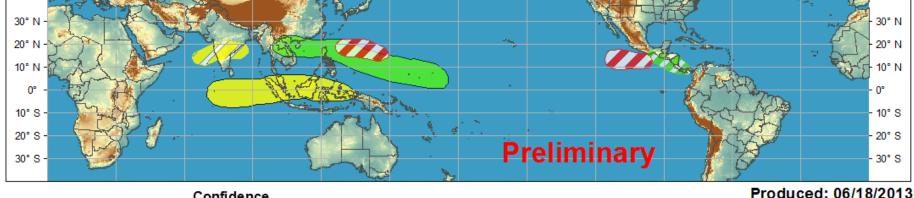
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Jun 26, 2013 - Jul 02, 2013



Confidence High Moderate Forecaster: Rosencrans

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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