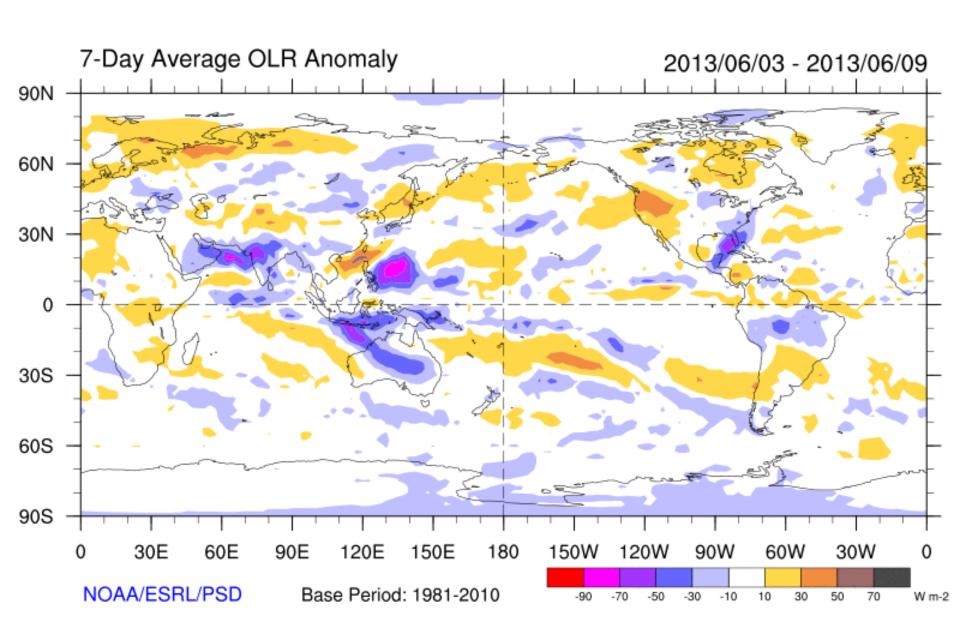
Global Tropics Hazards And Benefits Outlook June 11, 2013

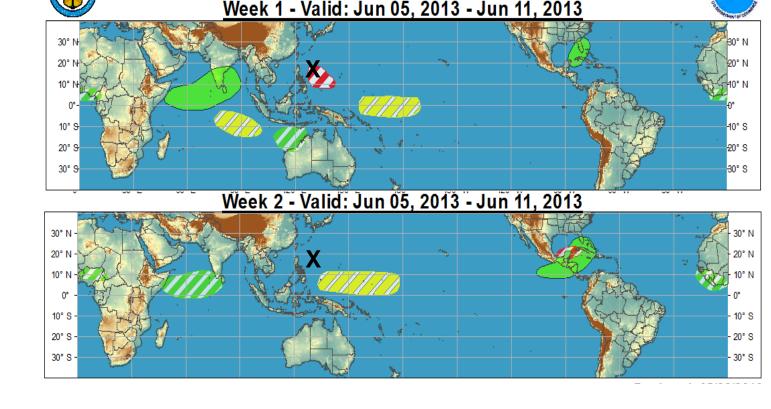
Matthew Rosencrans

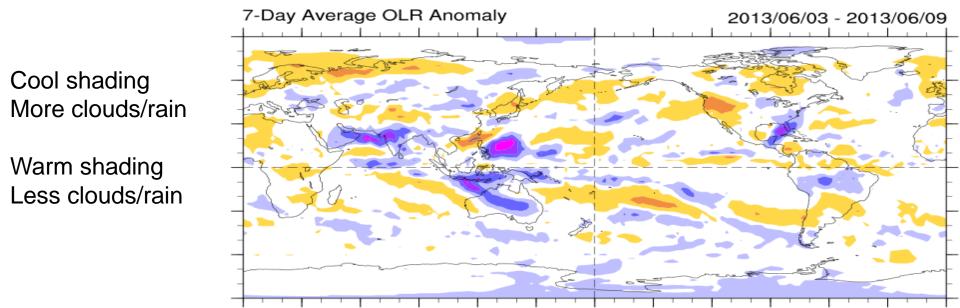
<u>Outline</u>

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



Outlook Review





Synopsis of Climate Modes

ENSO:

ENSO-neutral is favored through the Northern Hemisphere summer 2013

MJO and other subseasonal tropical variability:

- The MJO has remained weak over the past seven days.
- Model MJO index forecasts indicate strengthening/increasing coherence of the signal over the Maritime Continent (Phase 4), with propagation toward the Western Pacific (Phases 5-6).
- Atmospheric Kelvin waves playing a role.

Tropics:

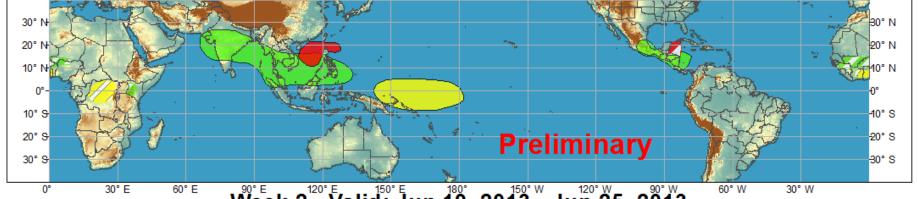
- Slight chance of TC development in the southern Gulf of Mexico/Gulf of Honduras, late in Week-1 to early Week-2. (Moderate Confidence).
- Enhanced likelihood of TC development over South China Sea/near northern Philippines, Week-1.



Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Jun 19, 2013 - Jun 25, 2013



Confidence High Moderate

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

Tropical Cyclone Formation 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 Below-normal temperatures 7-day mean temperatures in the upper third of the historical range.

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.





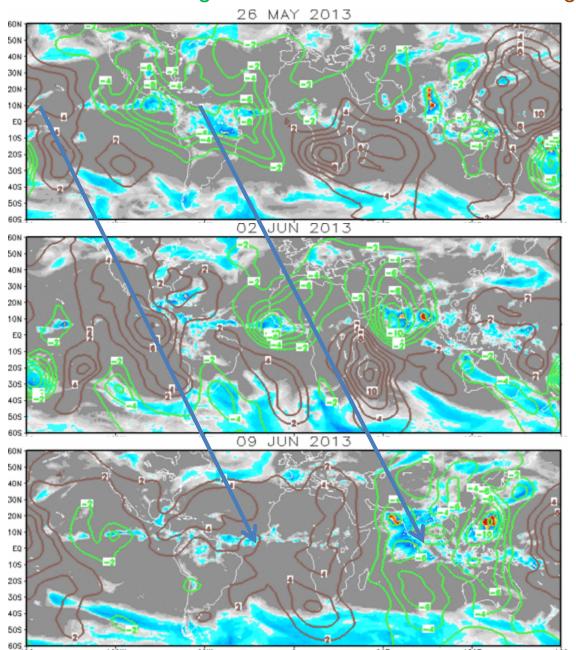




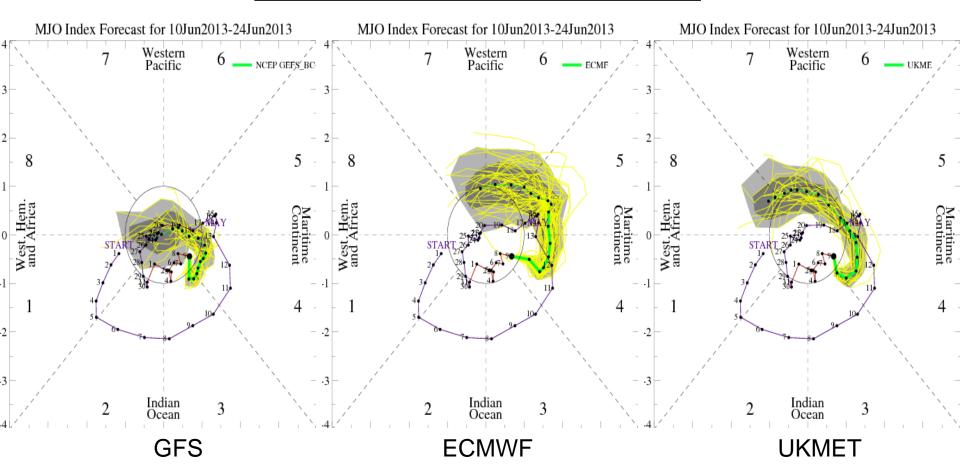


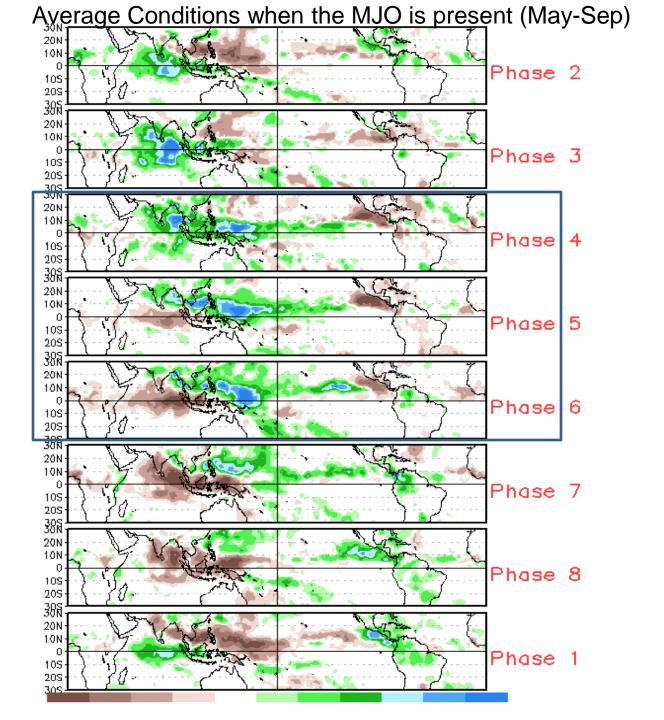
IR Satellite & 200-hpa Velocity Potential Anomalies

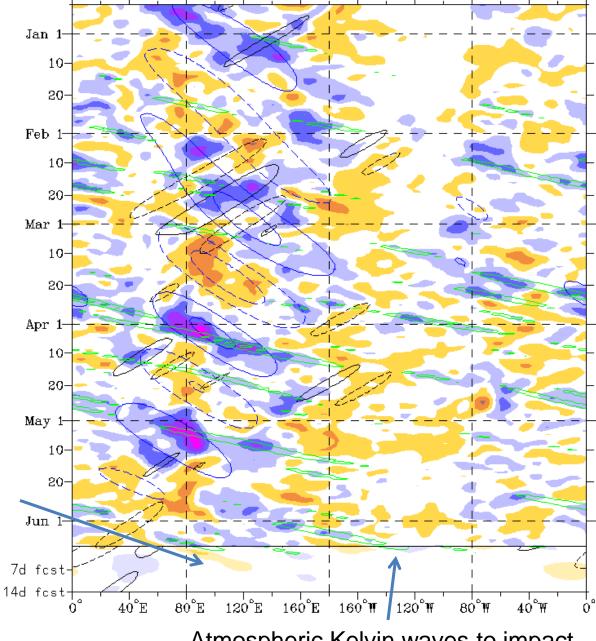
Green: Enhanced Divergence Brown: Enhanced Convergence



MJO Observation/Forecast

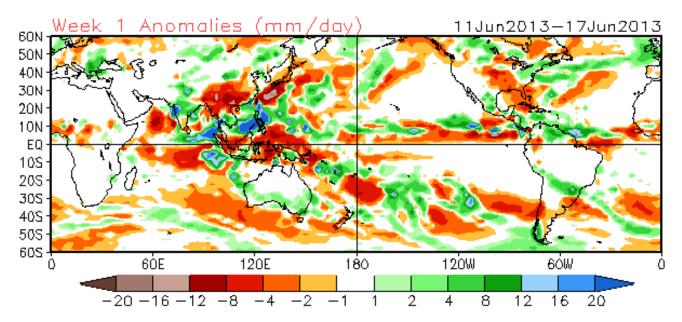


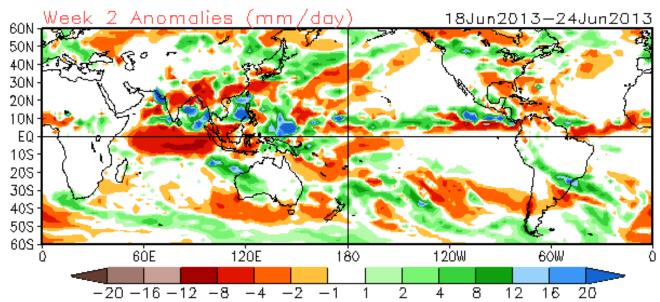




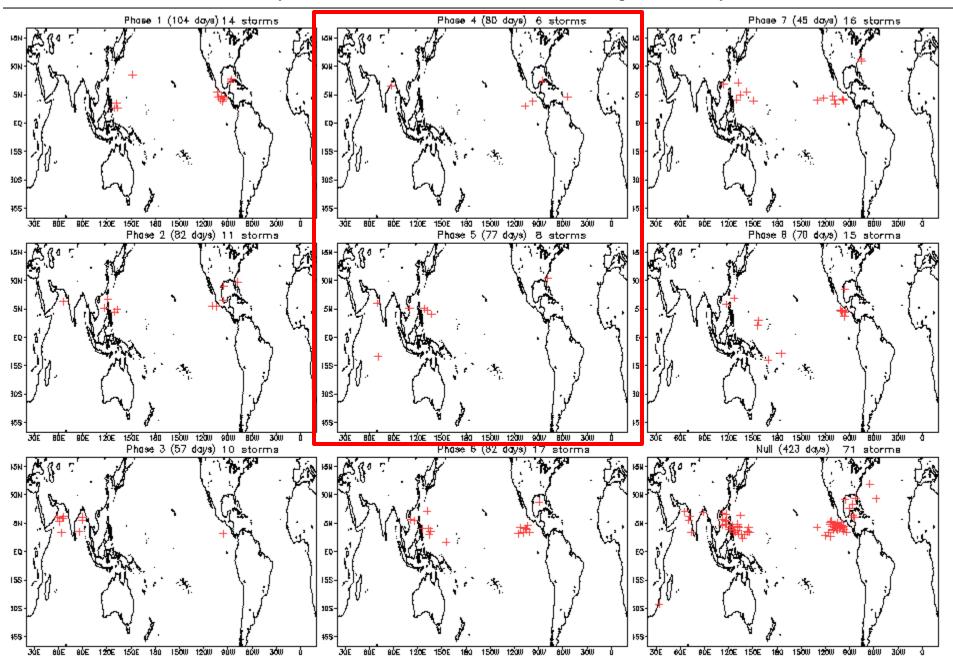
Active phase of the MJO forecast to impact eastern Indian Ocean and Maritime Continent.

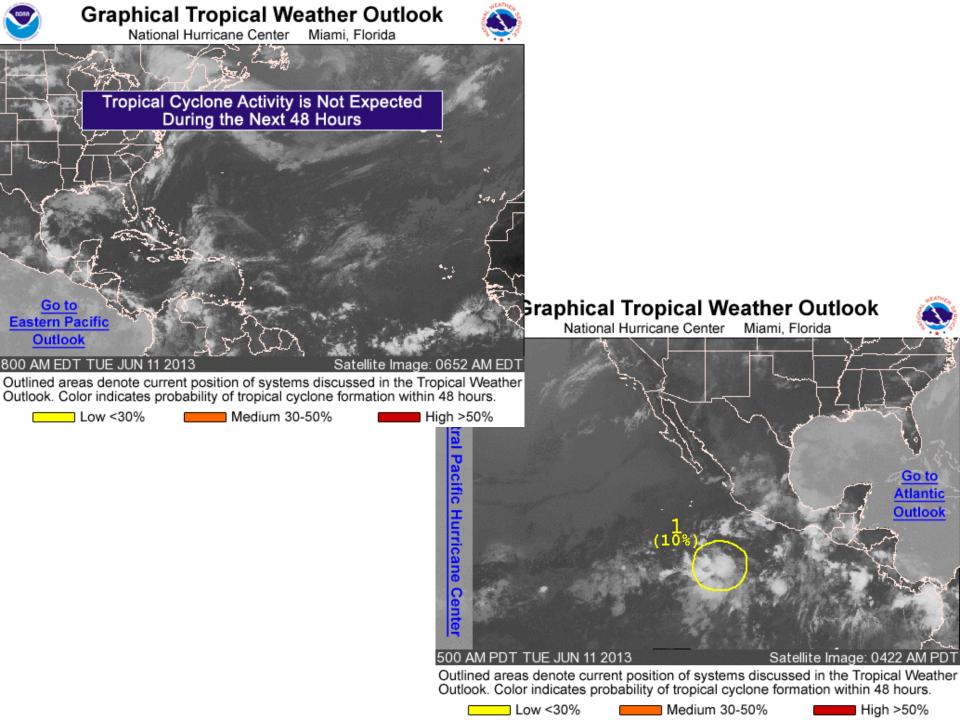
Atmospheric Kelvin waves to impact Americas (Tropical Cyclone development threat).

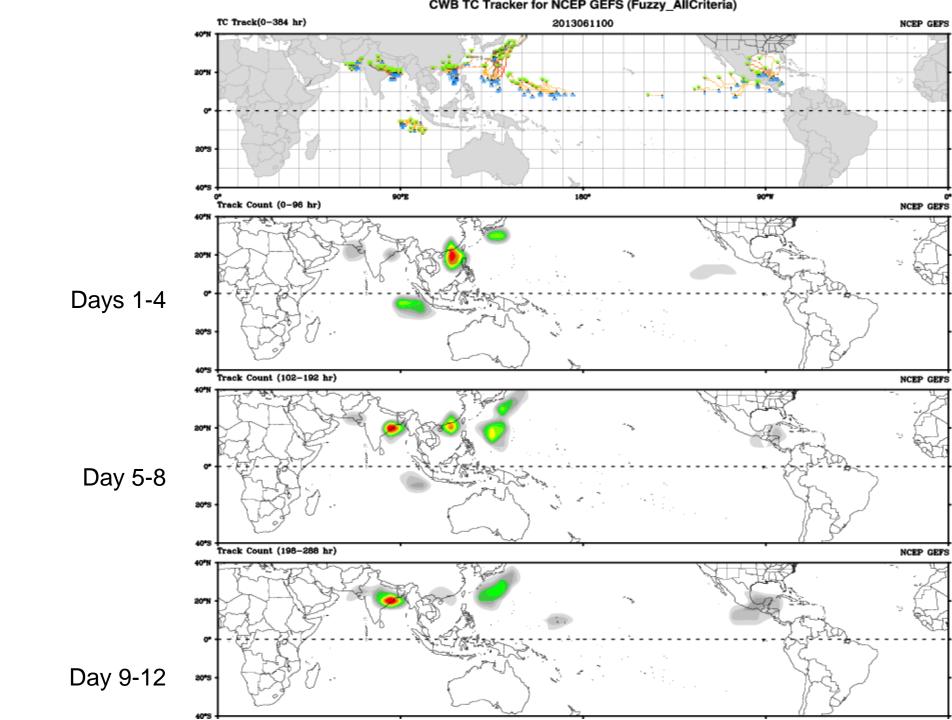




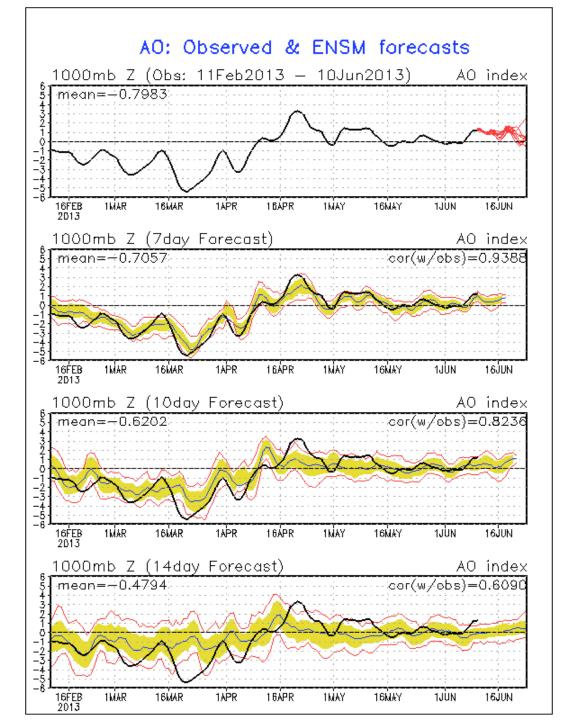
June Tropical Storm Formation by MJO phase



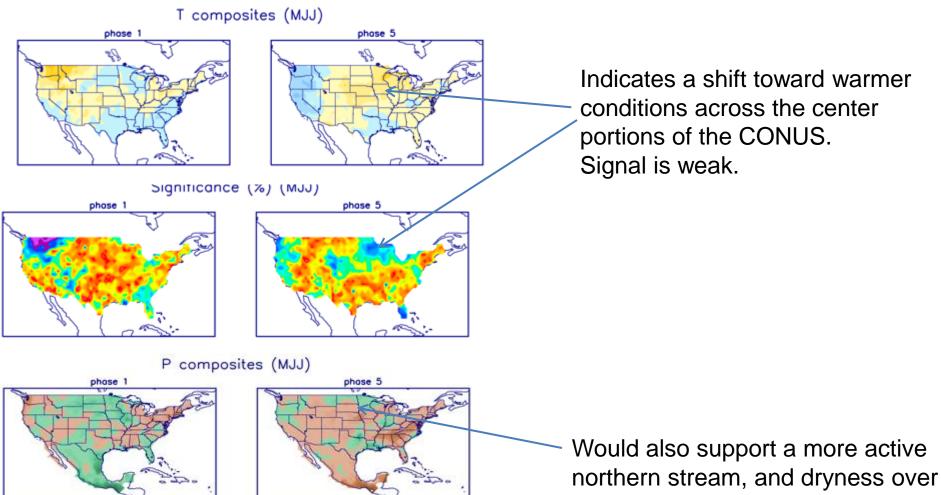




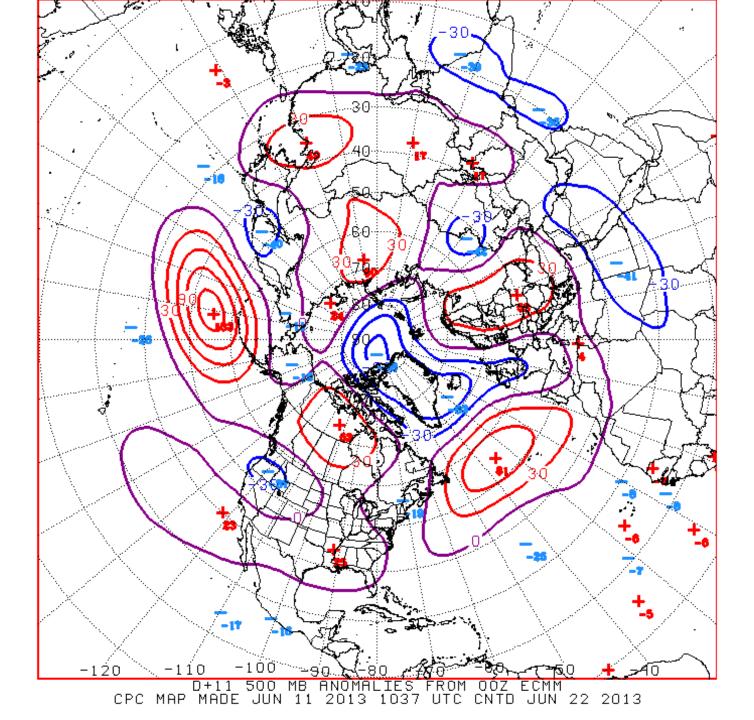
Connections to U.S. Impacts



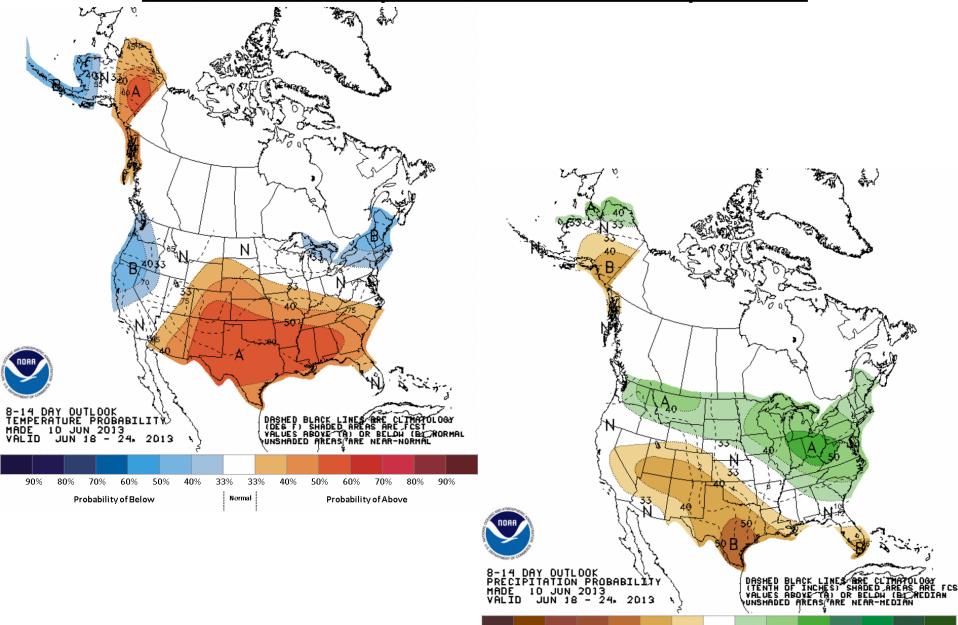
US Composites based on MJO Phase



the southeast
Lower significance/certainty about impacts on precip.



Week 2 - Temperature and Precipitation



70%

Probability of Below

33%

Normal

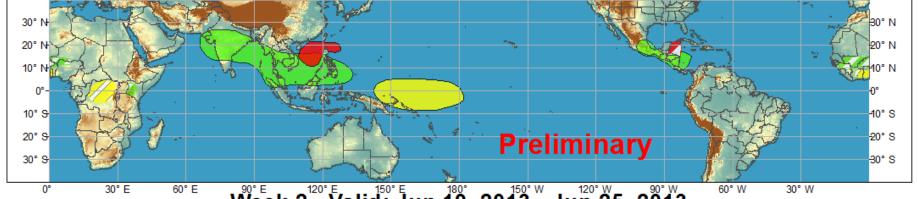
Probability of Above



Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Jun 19, 2013 - Jun 25, 2013



Confidence High Moderate

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

Tropical Cyclone Formation 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 Below-normal temperatures 7-day mean temperatures in the upper third of the historical range.

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.









