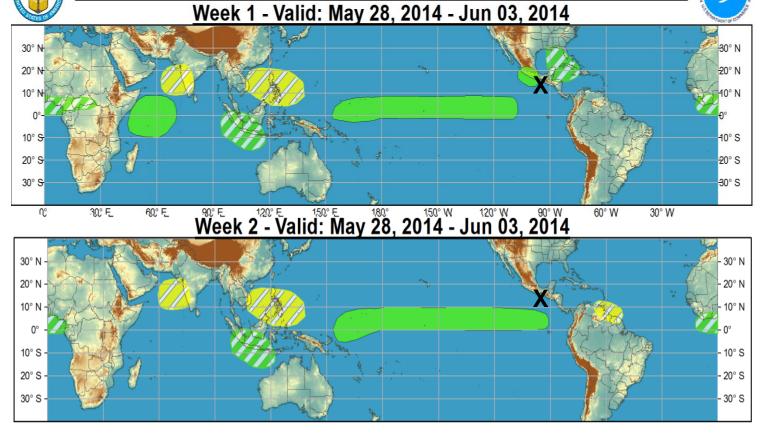
Global Tropics Hazards And Benefits Outlook June 3, 2014

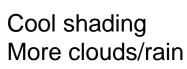
Adam Allgood/Matthew Rosencrans

Outline

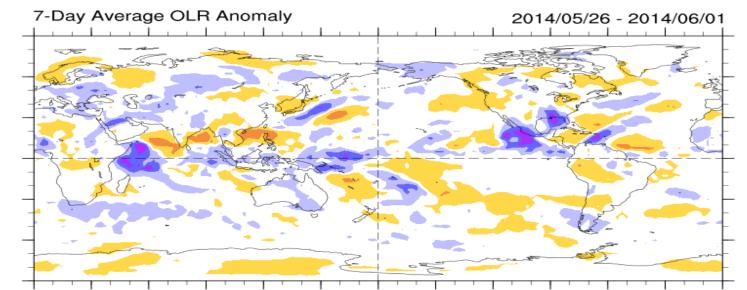
- 1. Review of Recent Conditions
- 2. Synopsis of Climate Modes
- 3. GTH Outlook and Forecast Discussion
- 4. Connections to U.S. Impacts

Outlook Review





Warm shading Less clouds/rain



Synopsis of Climate Modes

ENSO:

- ENSO-neutral conditions continue.*
- Sea surface temperatures (SST) are above-average across the equatorial Pacific Ocean.
- Chance of El Niño increases during the remainder of the year, exceeding 65% by summer.*
- ENSO Alert System Status: El Niño Watch

MJO and other subseasonal tropical variability:

- The MJO remained weak during the past week.
- Dynamical model MJO index forecasts differ on the strength and position of the convectively active portion of the signal during Week-2. Most forecasts indicate slow propagation during Week-1 with a signal emerging over the Maritime Continent in Week-2.

Extratropics:

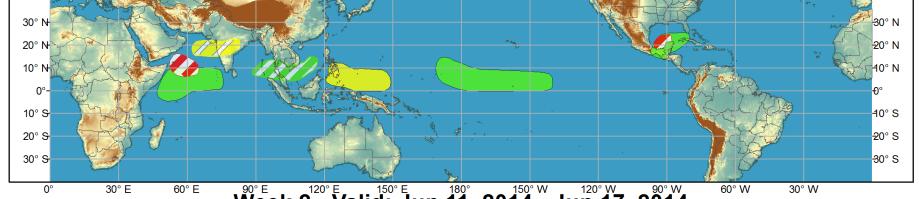
• The extended range forecast for the U.S. is not expected to be impacted greatly by the MJO. Current outlooks indicated enhanced likelihood of above-normal temperatures over the Southwest, California, southern Alaska, and portions of the Southeast. Below normal temperature are favored from the Gulf Coast to the Great Lakes. Above-median rains are likely along the East Coast and Northern Plains with below-median precipitation likely across the Southern Great Plains and Southern Rockies.



Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Jun 11, 2014 - Jun 17, 2014



Confidence High Moderate Produced: 06/03/2014

Forecaster: Allgood/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.

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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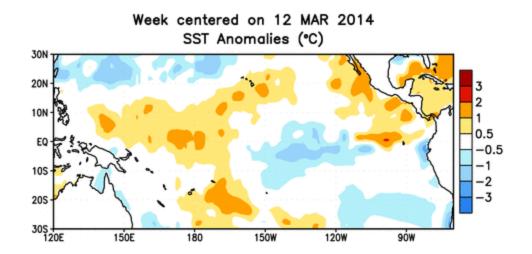


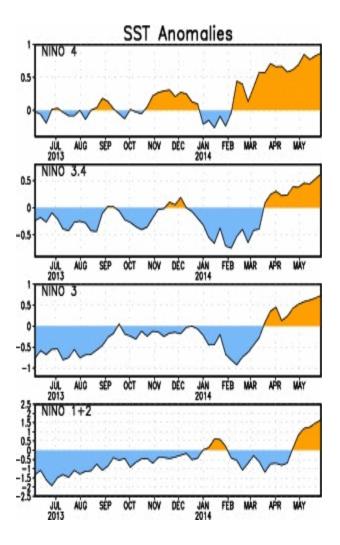






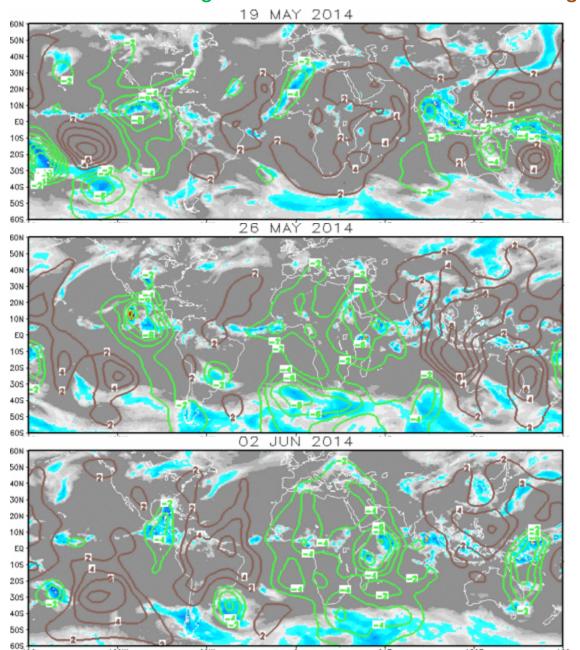
SSTs continue to increase over the Central and Eastern Pacific





IR Satellite & 200-hpa Velocity Potential Anomalies

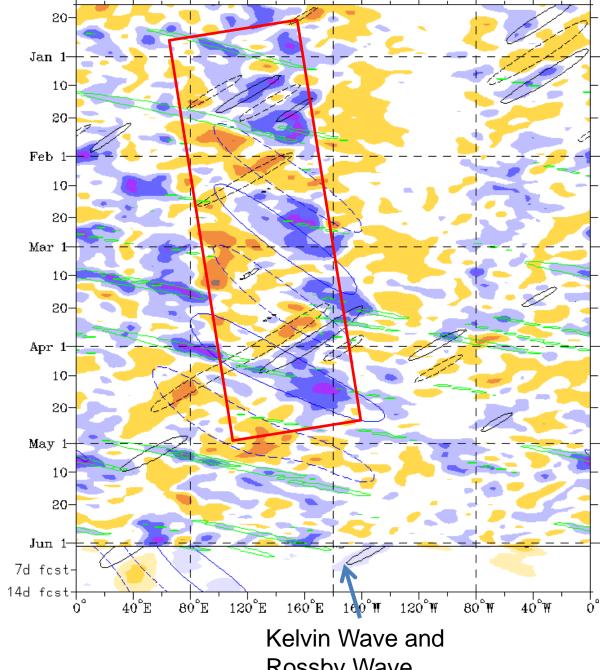
Green: Enhanced Divergence Brown: Enhanced Convergence



MJO signal weak

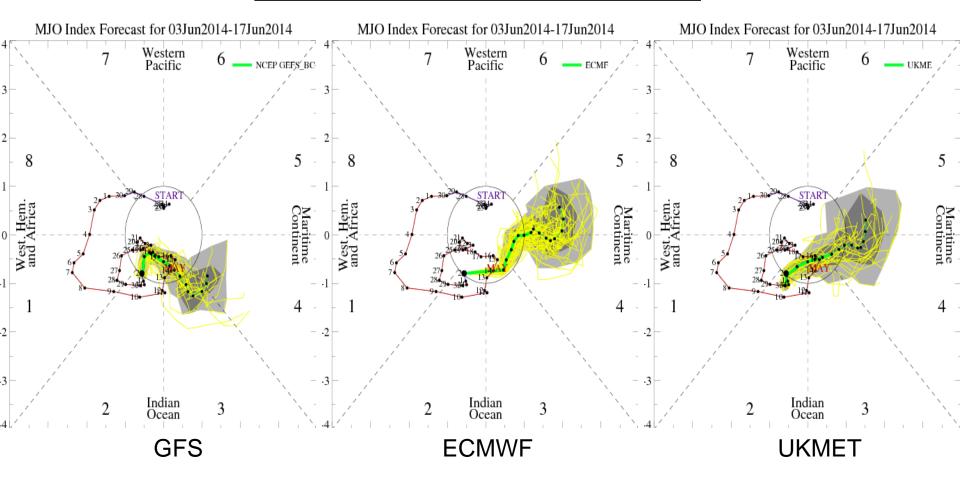
Main drivers are now:

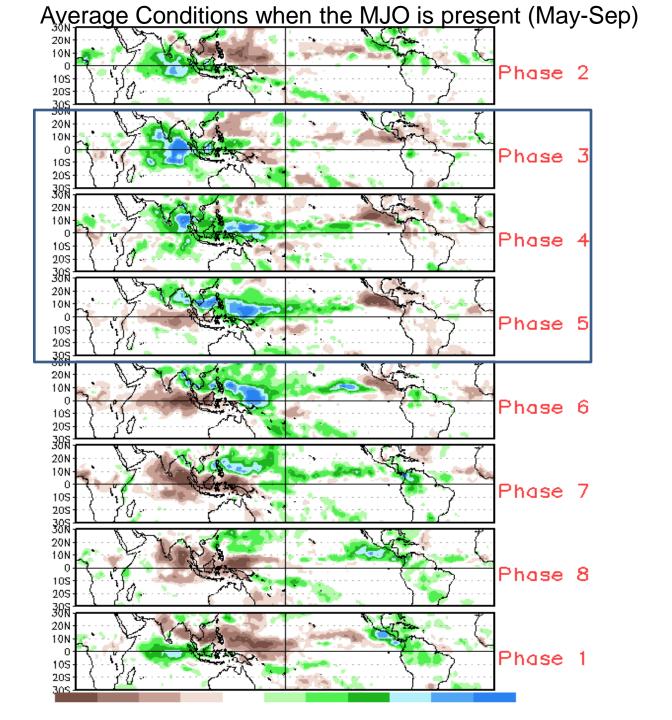
- Atmospheric Kelvin waves (green ovals)
- Equatorial Rossby Waves (black oval, tilted to bottom left)
- 3) Interseasonal state (red box)



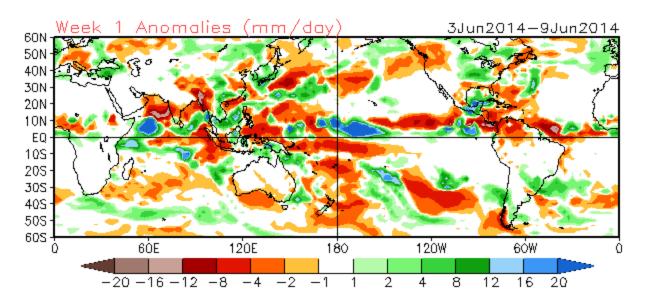
Rossby Wave interaction likely.

MJO Observation/Forecast

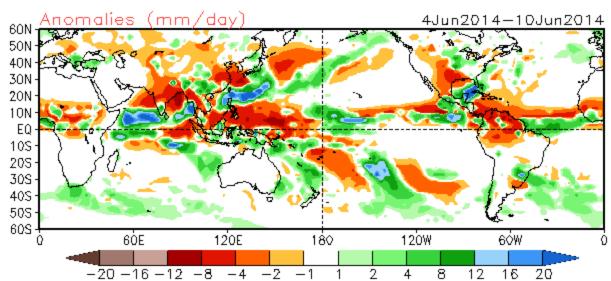




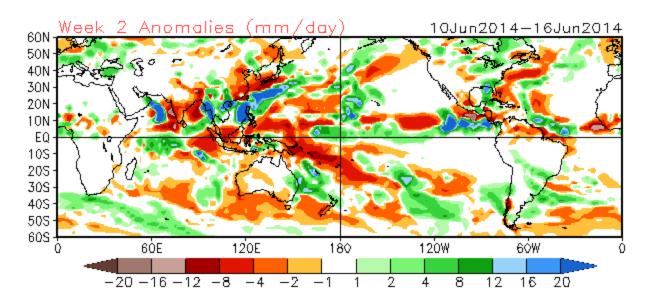
CFS



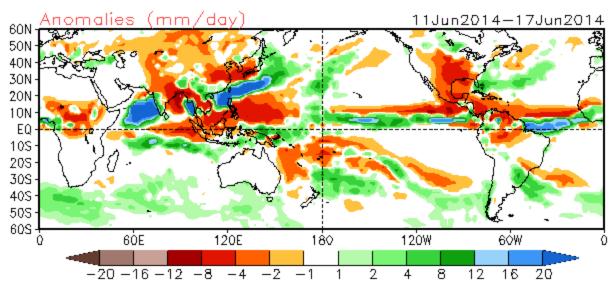


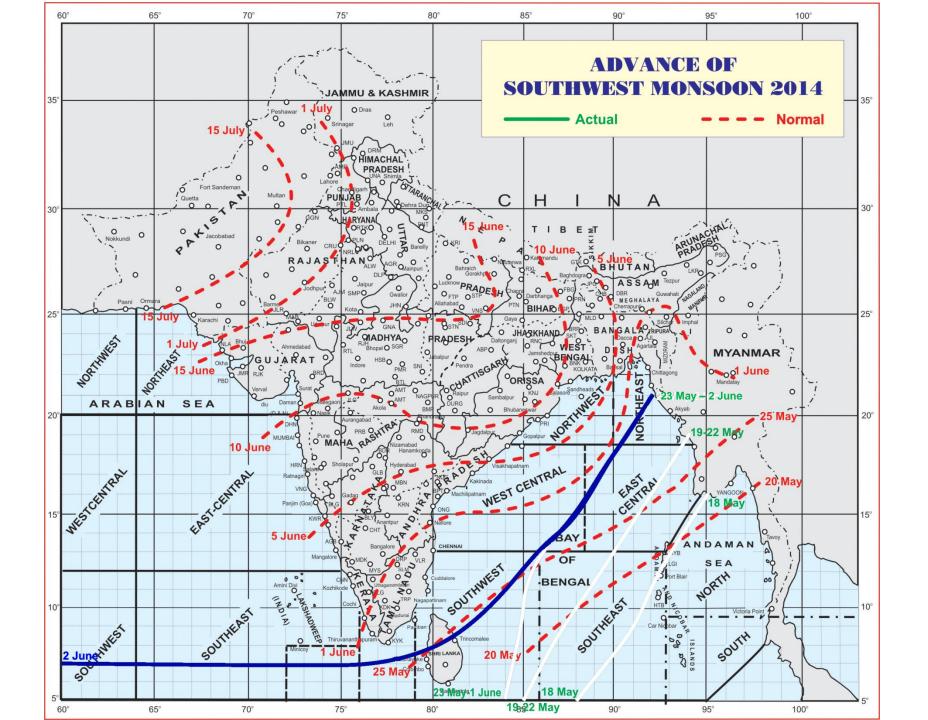


CFS

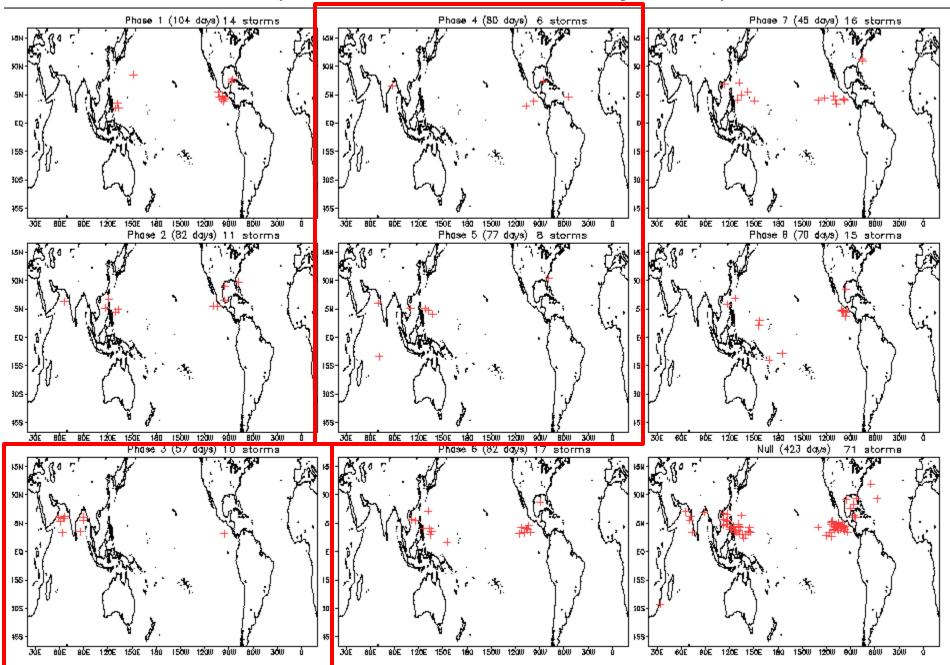


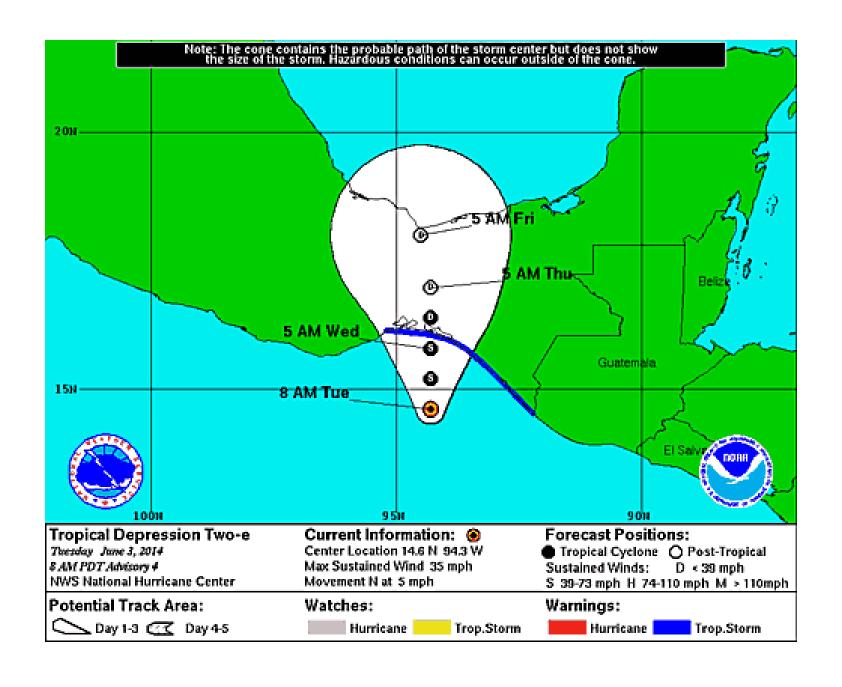


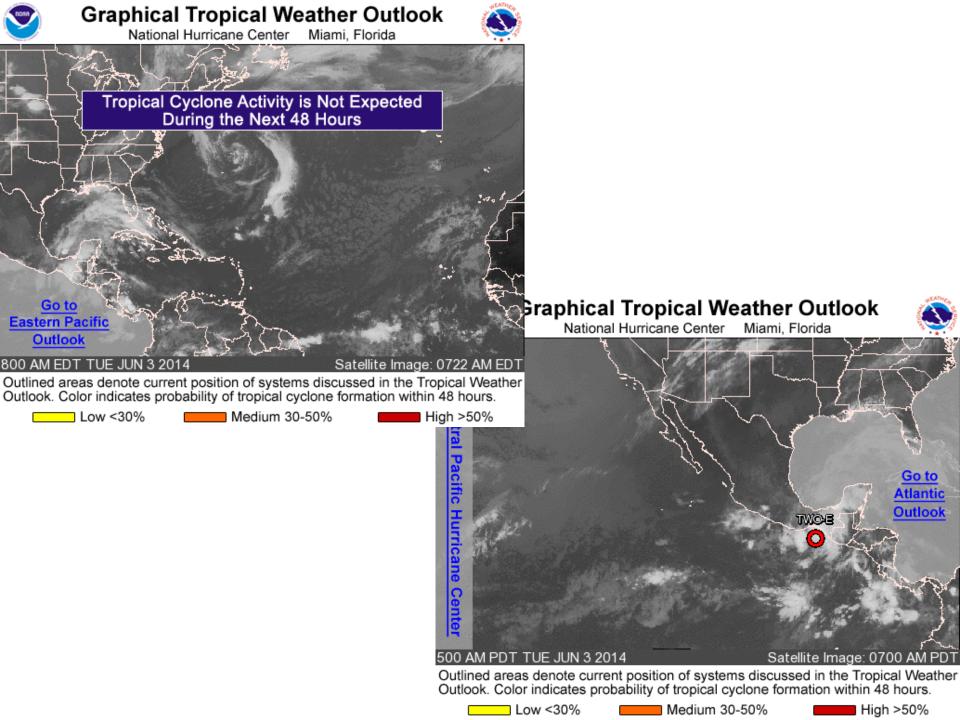


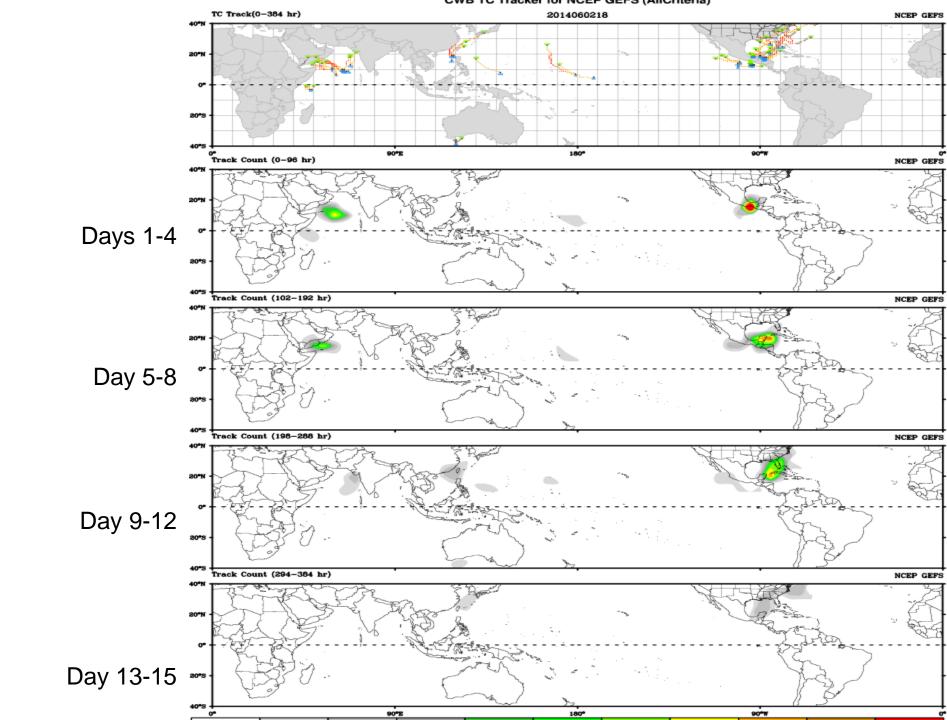


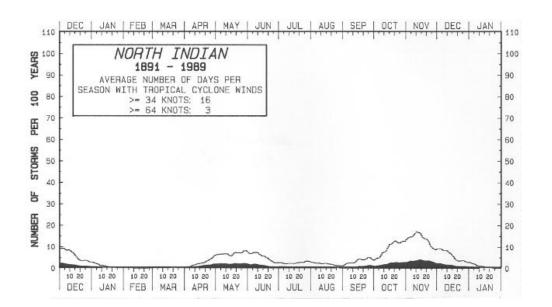
June Tropical Storm Formation by MJO phase

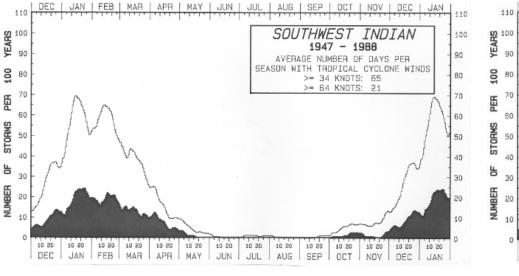


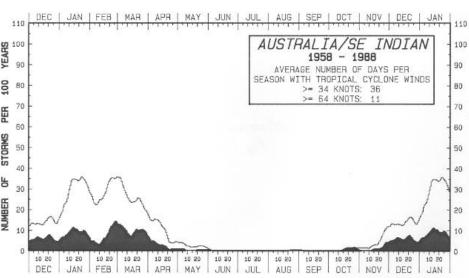




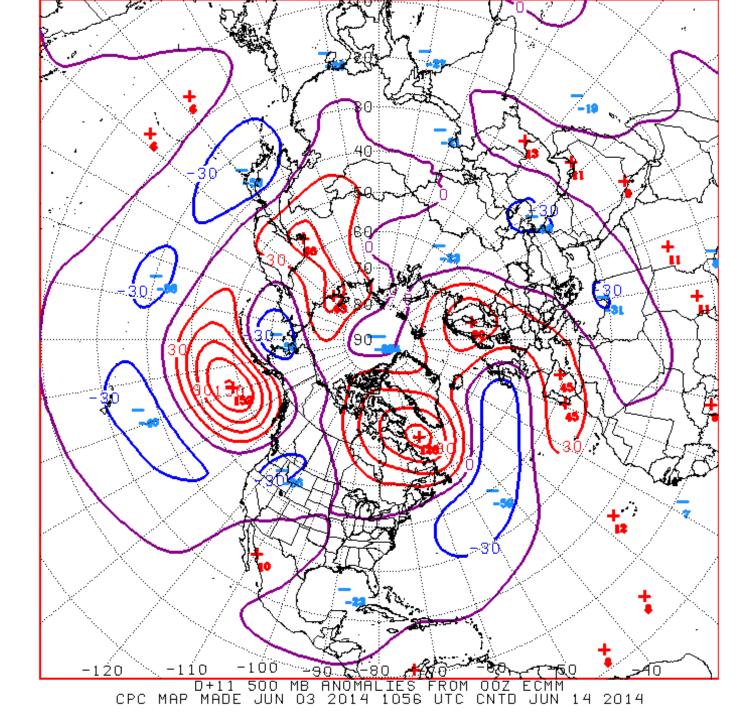




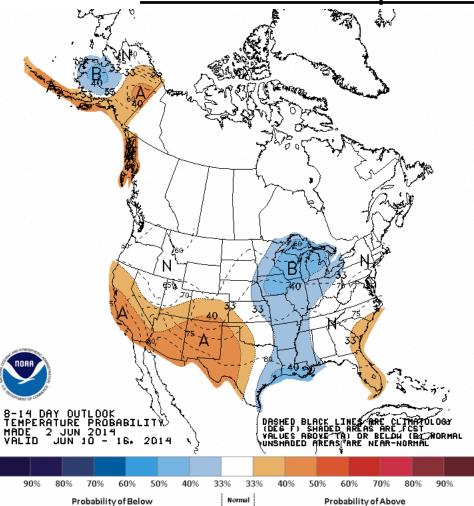




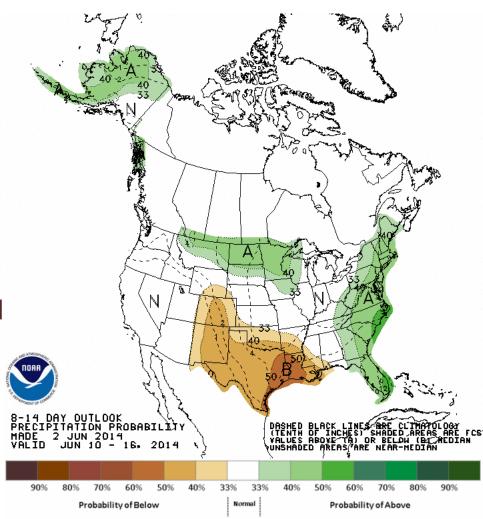
Connections / U.S. Impacts



Week 2 - Temperature and Precipitation



Seeing some patterns consistent with lagged impacts from Phase 5/6 MJO, but not proper linkages over the Pacific to allow preliminary attribution.

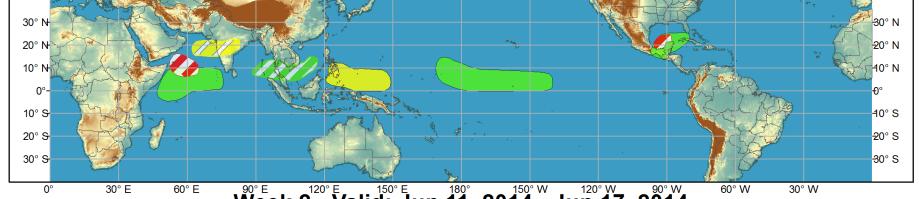




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