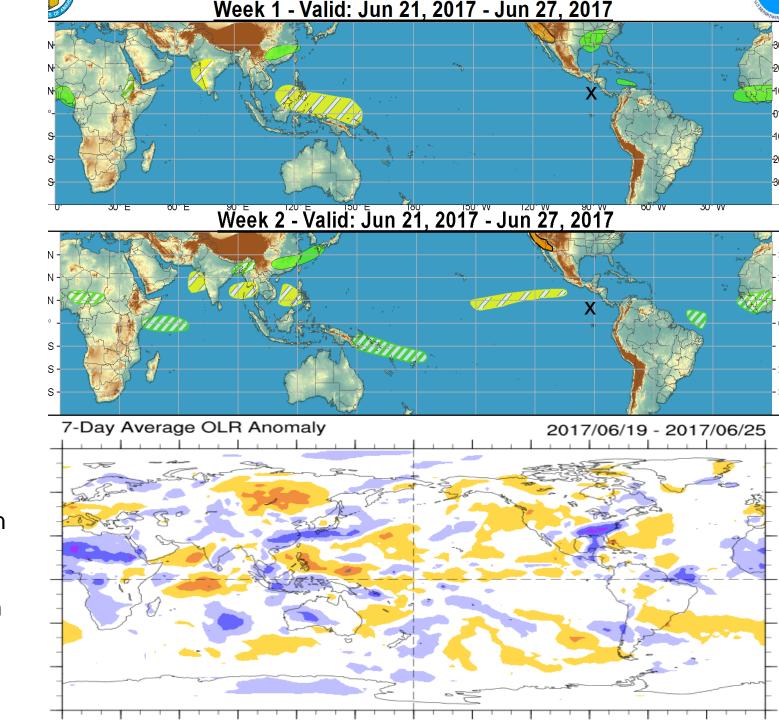
Global Tropics Hazards And Benefits Outlook 6/27/2017

Matthew Rosencrans

Outline

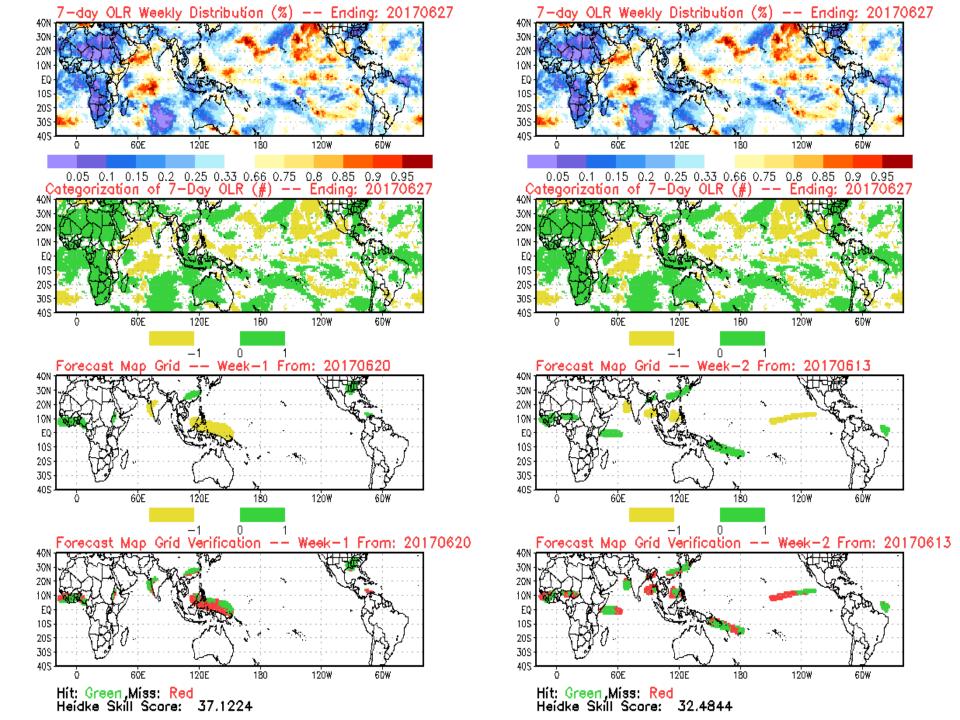
- 1. Review of Recent Conditions
- 2. Synopsis of Climate Modes
- 3. GTH Outlook and Forecast Discussion
- 4. Connections to U.S. Impacts

Outlook Review



Cool shading More clouds/rain

Warm shading Less clouds/rain



Synopsis of Climate Modes

ENSO:

• ENSO-neutral is favored (50 to ~55% chance) through the Northern Hemisphere fall 2017.

MJO and other subseasonal tropical variability:

- The MJO remained weak during the past 7 days.
- Dynamical models indicate a weak signal initially, strengthening over the Indian Ocean during week-1, then models diverge significantly, allowing other modes to dominate the pattern.

Extratropics:

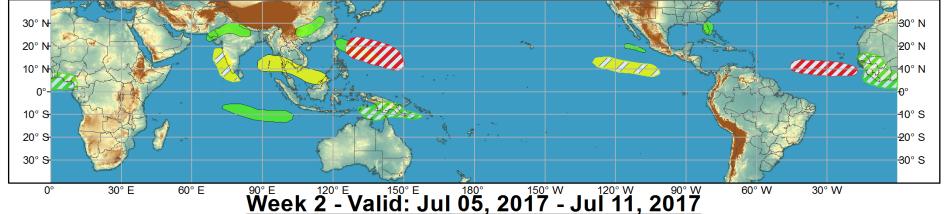
• The extended range temperature and precipitation forecasts for the U.S. are not likely to be impacted by MJO activity.



Global Tropics Hazards and Benefits Outlook - Climate Prediction Center









Confidence High Moderate Produced: 06/27/2017

Forecaster: Rosencrans

Tropical Cyclone Formation Development of a tropical cyclone (tropical depression - TD, or greater strength).

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

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, 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.



Below-average rainfall

Above-normal temperatures

Below-normal temperatures













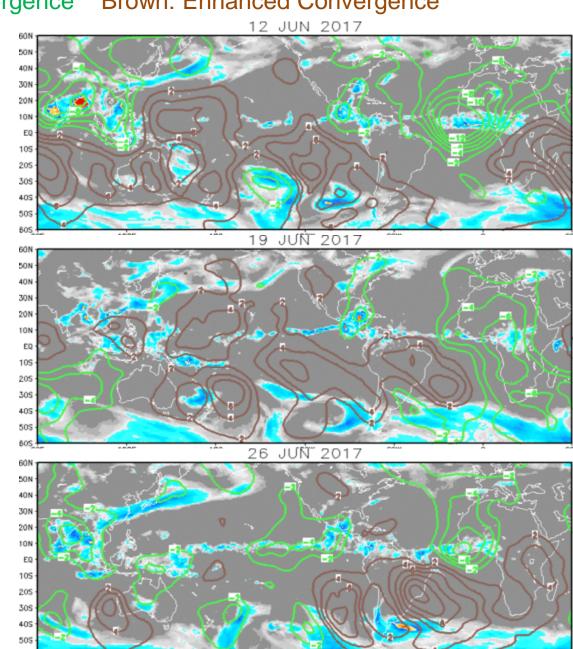
IR Satellite & 200-hpa Velocity Potential Anomalies

Green: Enhanced Divergence Brown: Enhanced Convergence

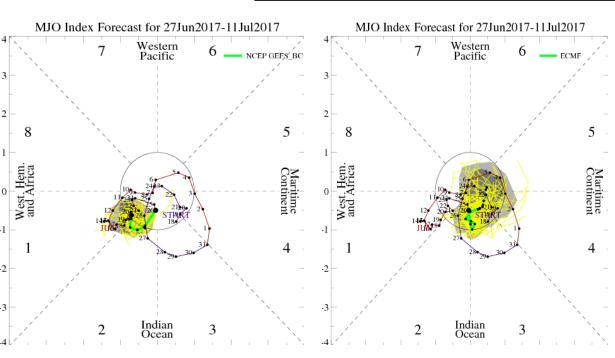
High wave number, not consistent with MJO.

Pattern not consistent with MJO.

High wave number, not consistent with MJO. Highlights other modes of variability.

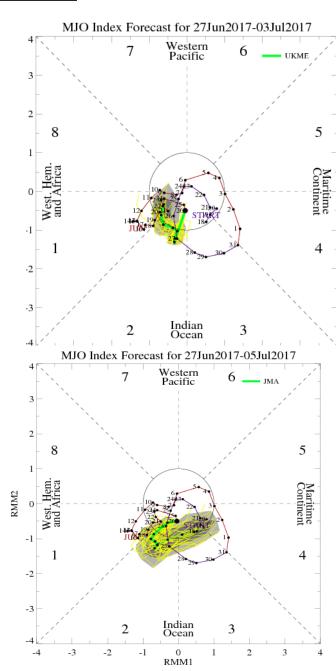


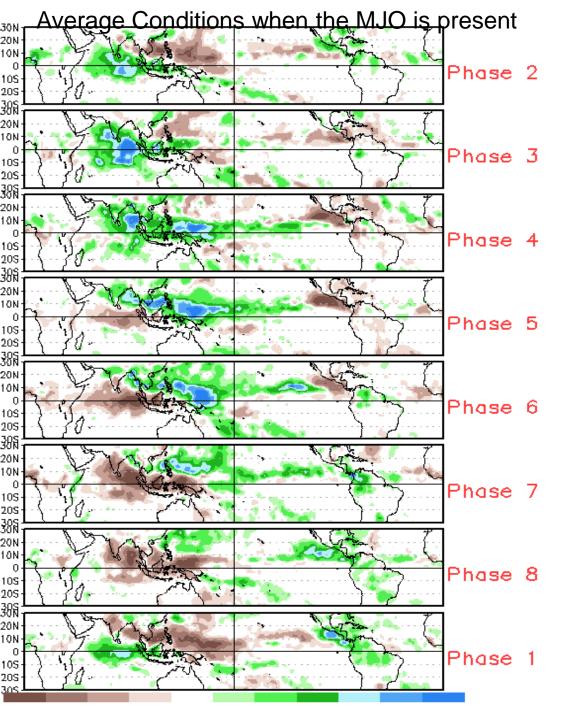
MJO Observation/Forecast



Two "camps" for where convection is likely to setup during the next 2 weeks.

Neither related to MJO.





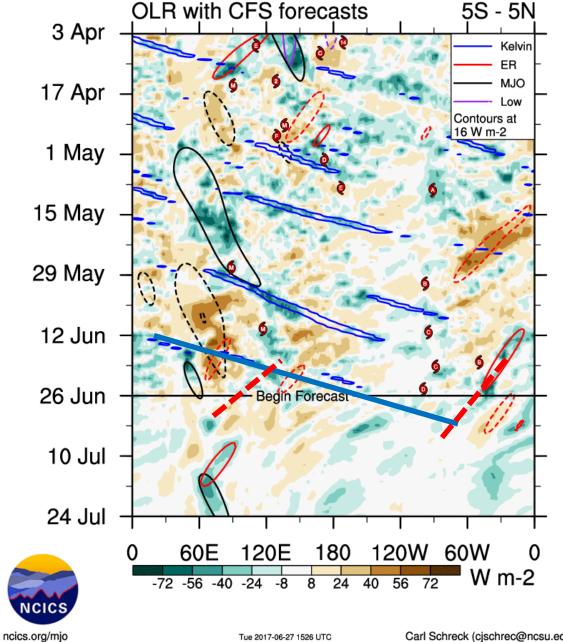
CAVEAT: These panels are representative of robust MJO events.

Rossby wave

Kelvin wave having an influence

MJO little to no influence

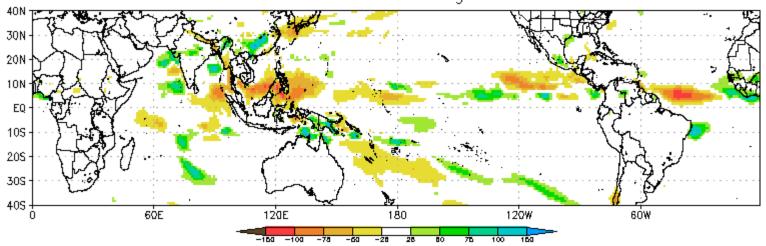
Low-frequency pattern less of an influence



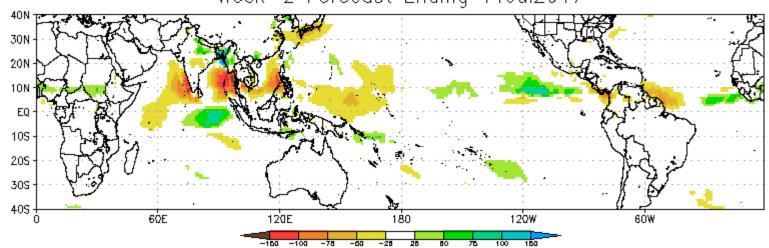
Tue 2017-06-27 1526 UTC

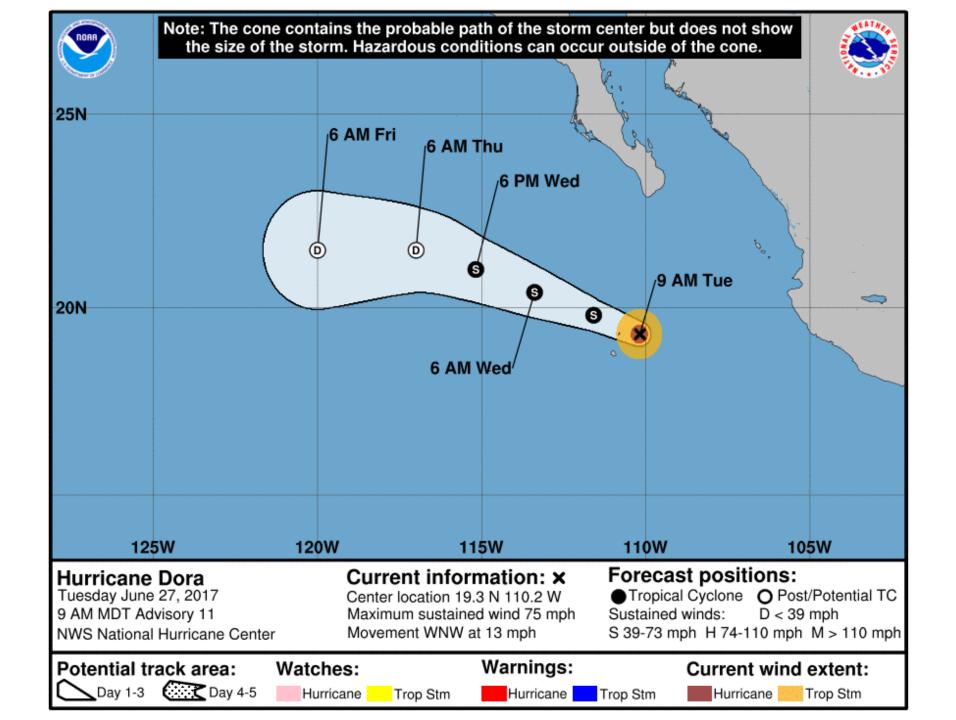
Carl Schreck (cjschrec@ncsu.edu)

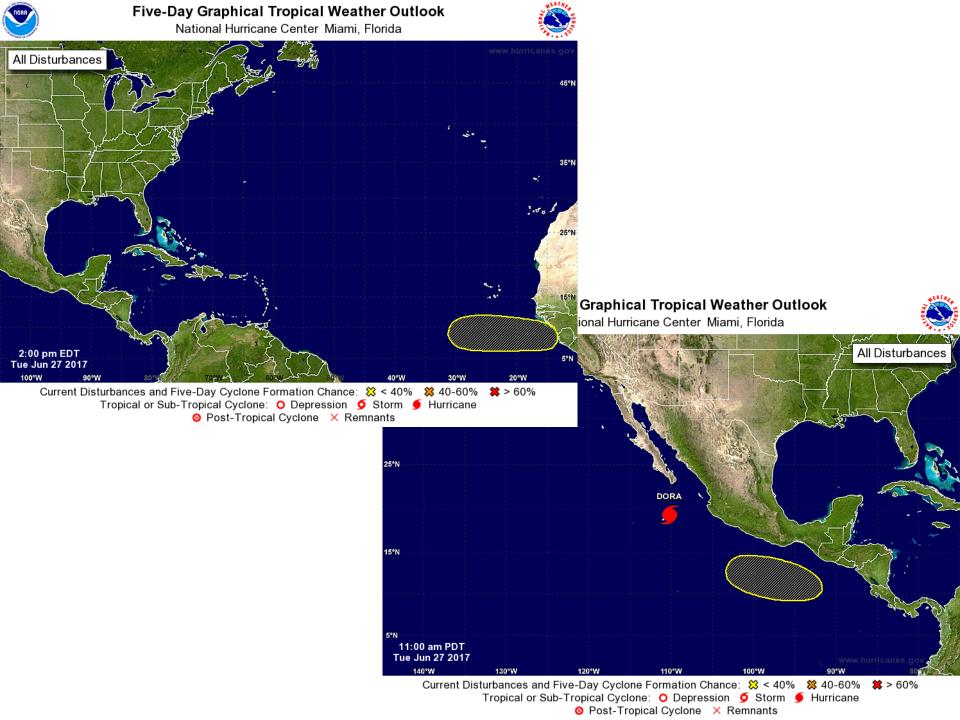
CFS Precipitation Anomalies (mm) Issued 26Jun2017 Week—1 Forecast Ending 04Jul2017

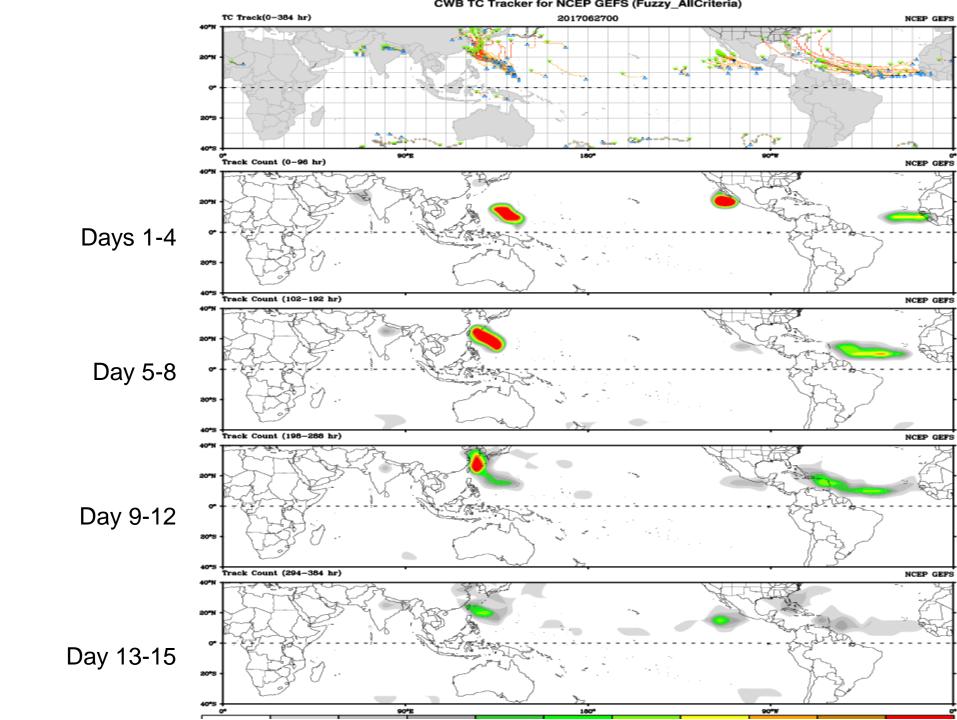


CFS Precipitation Anomalies (mm) Issued 26Jun2017 Week-2 Forecast Ending 11Jul2017

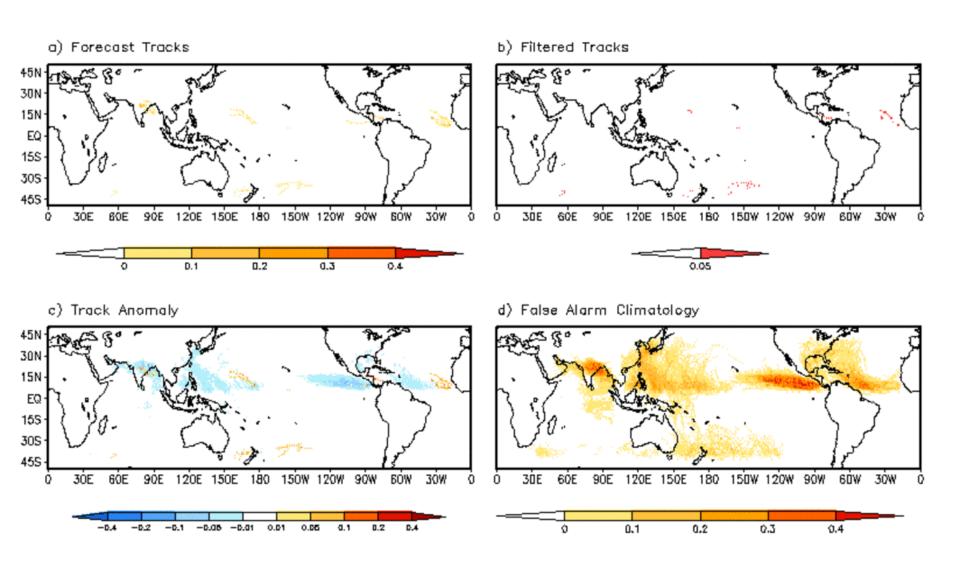




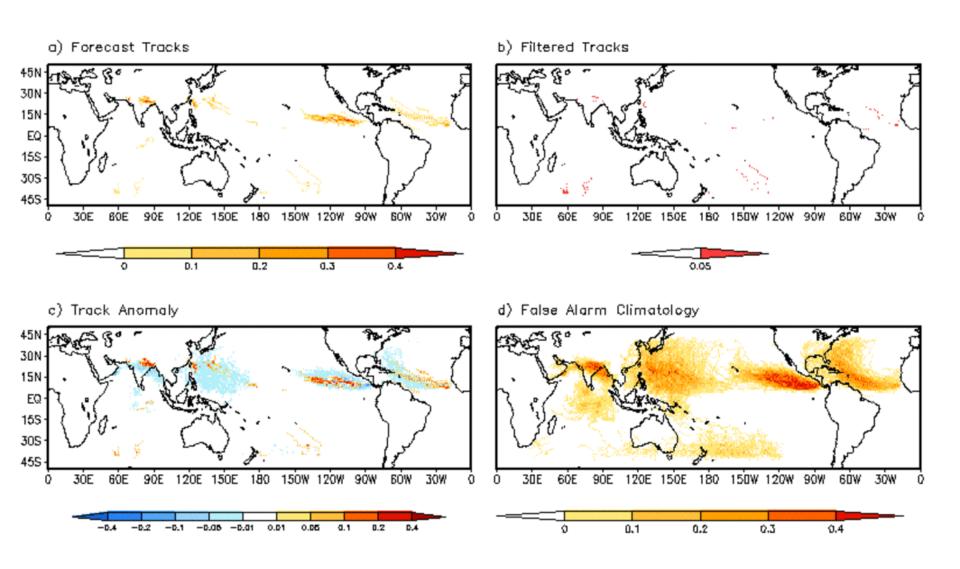




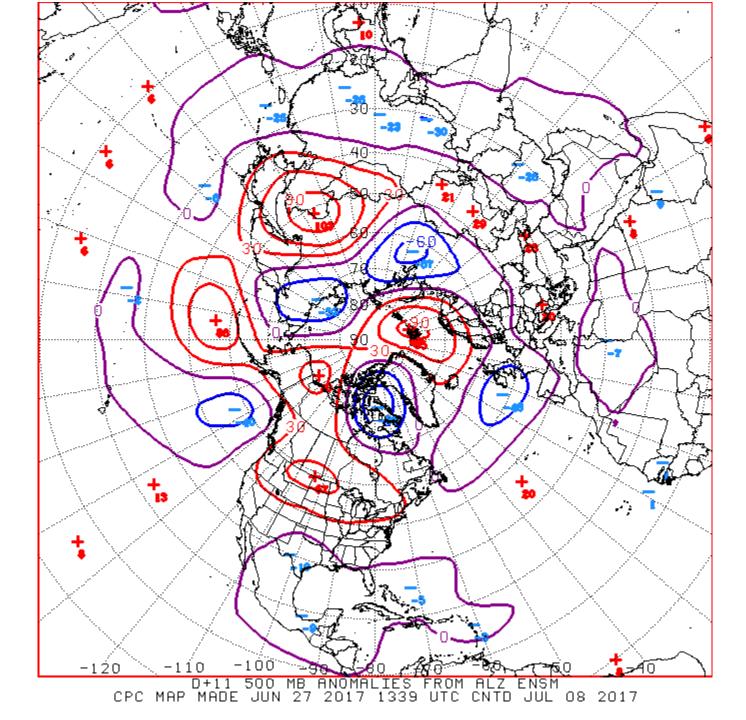
CFSv2 45-Day Forecasts Week 1: 0627-0703

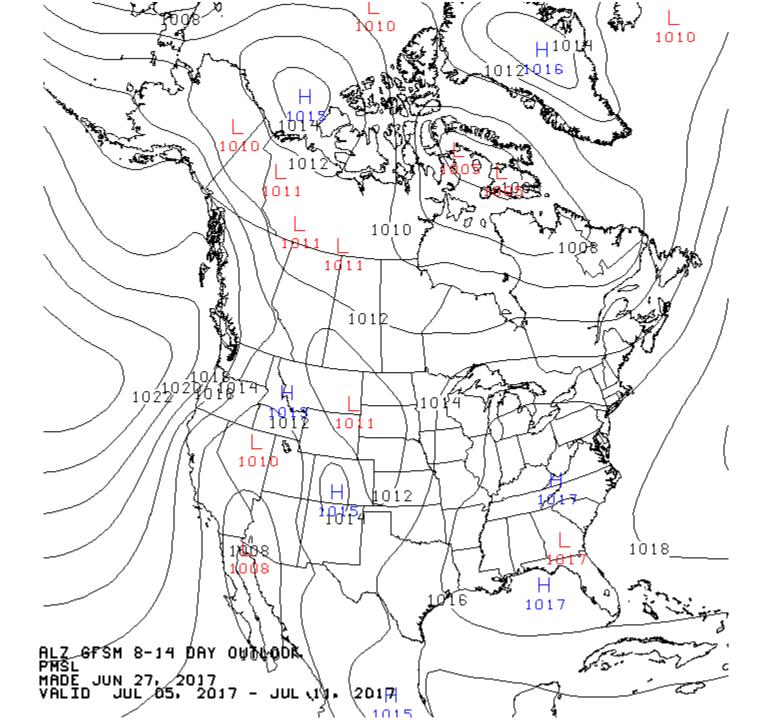


CFSv2 45-Day Forecasts Week 2: 0704-0710

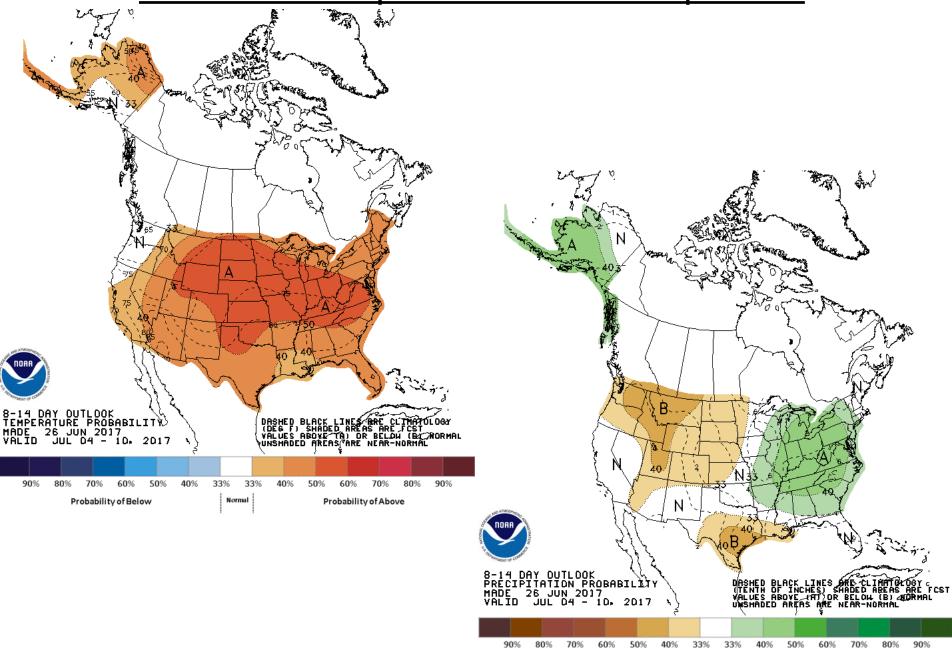


Connections to U.S. Impacts





Week 2 - Temperature and Precipitation



Probability of Below

Normal

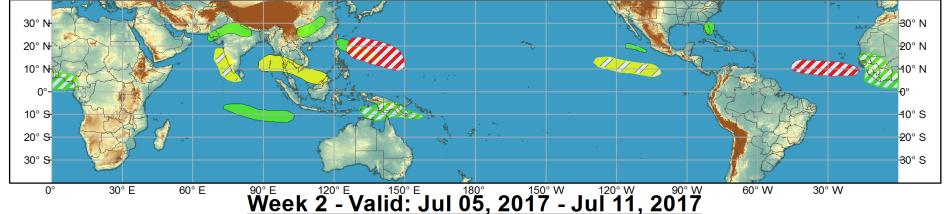
Probability of Above



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