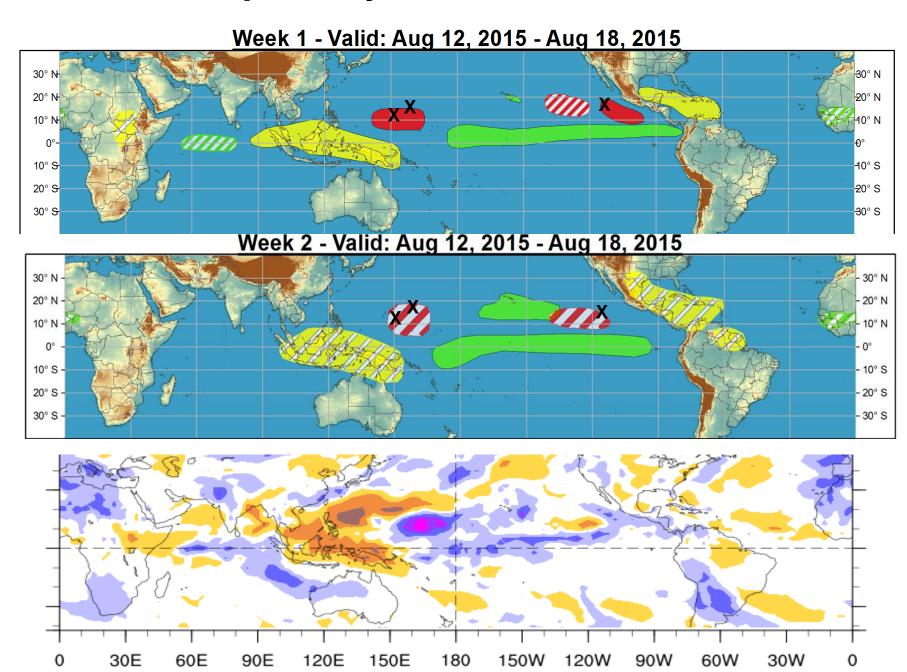
Global Tropics Hazards And Benefits Outlook <u>August 18, 2015</u>

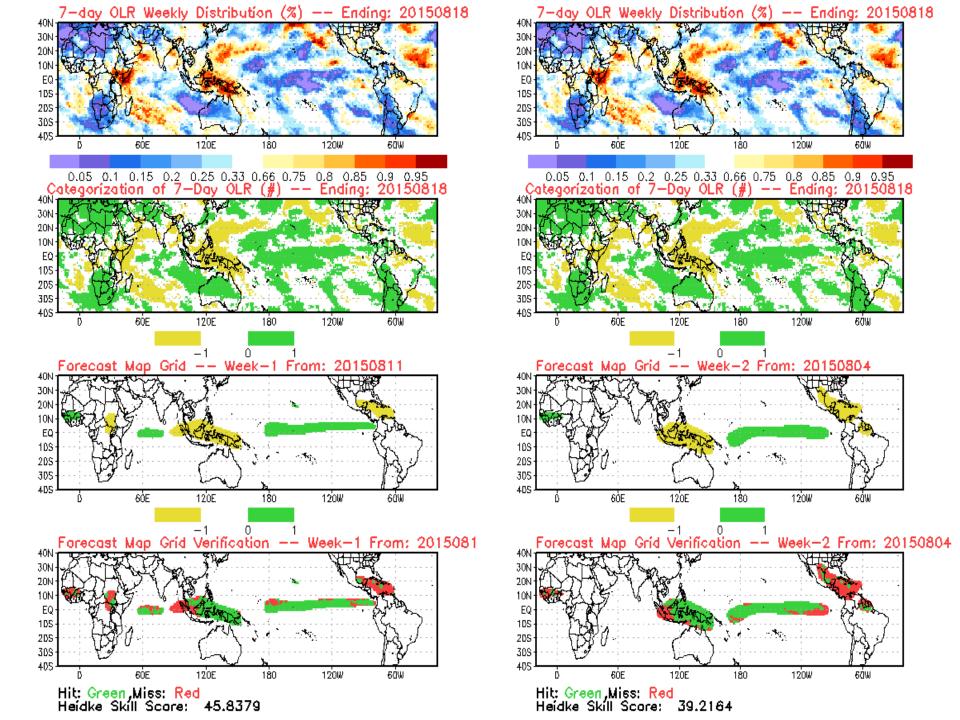
Adam Allgood

<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

Tropical Cyclone Verifications





Synopsis of Climate Modes

ENSO:

- Current: El Niño Advisory
- Outlook: There is a greater than 90% chance that El Niño will continue through Northern Hemisphere winter 2015-16, and around an 85% chance it will last into early spring 2016.

MJO and other subseasonal tropical variability:

- The MJO is incoherent and not anticipated to play a role in the global tropical convective pattern.
- Dynamical model MJO Index forecasts are very noisy, with ensemble members falling into almost every Phase during the next two weeks. This is reflective of the lack of a coherent subseasonal signal.
- El Niño and tropical cyclone activity are anticipated to be the primary drivers of tropical convective patterns during the next two weeks.

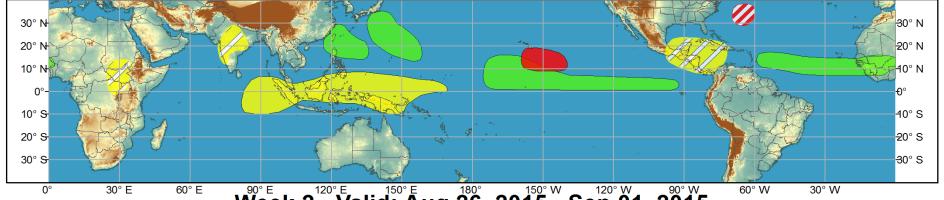
Extratropics:

• While the MJO is not anticipated to be a factor in the the evolution of the mid-latitude pattern, El Niño and recurving West Pacific tropical cyclones may play a role.

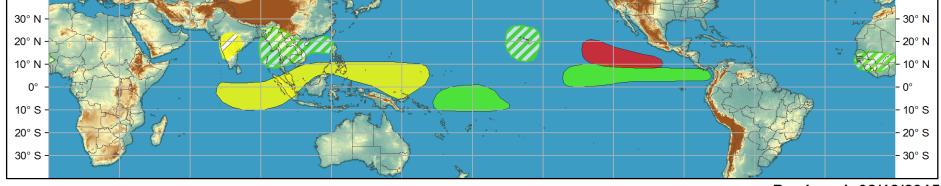
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Aug 26, 2015 - Sep 01, 2015



Confidence High Moderate Produced: 08/18/2015

Forecaster: Allgood

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.

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, 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





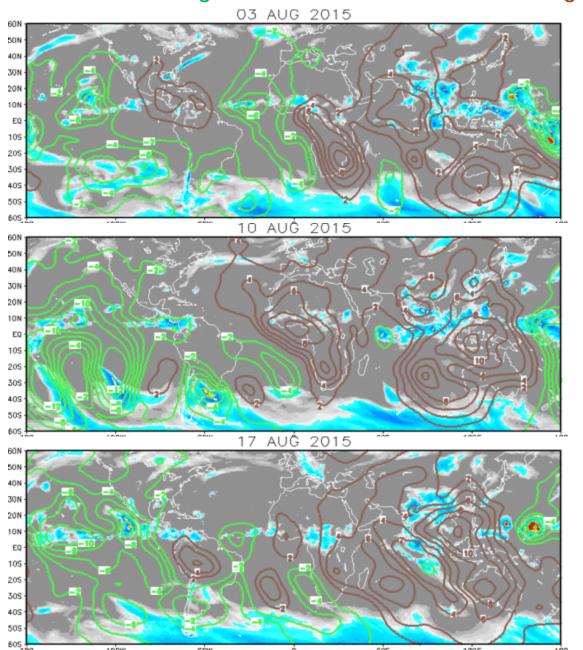




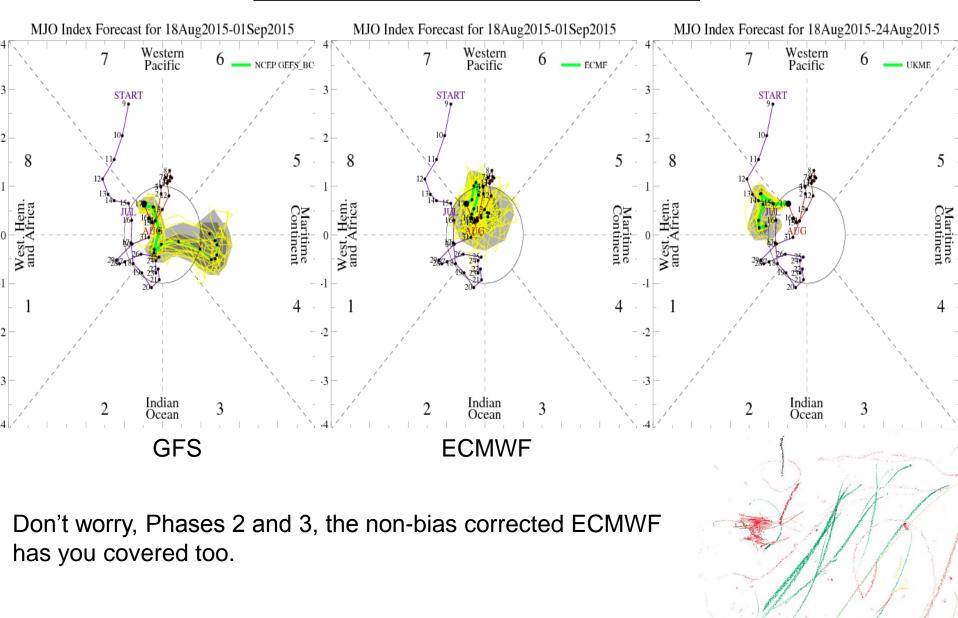


IR Satellite & 200-hpa Velocity Potential Anomalies

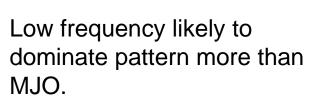
Green: Enhanced Divergence Brown: Enhanced Convergence



MJO Observation/Forecast

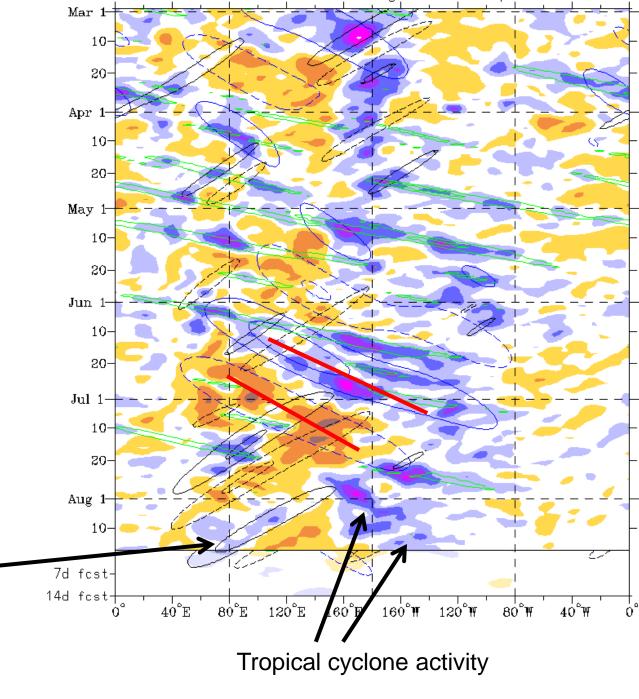


Toddler art, about the same level of helpfulness.

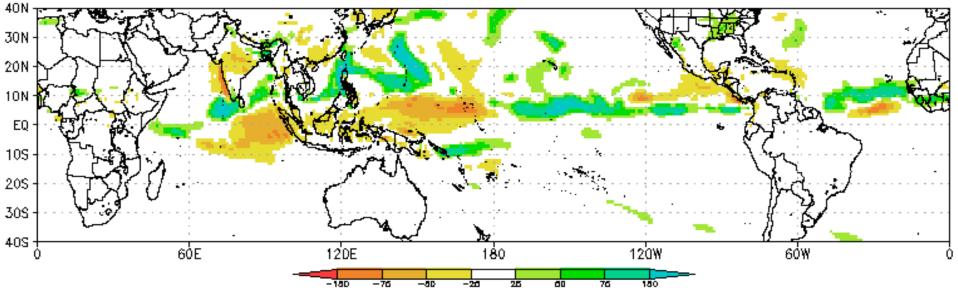


MJO indicated by red lines

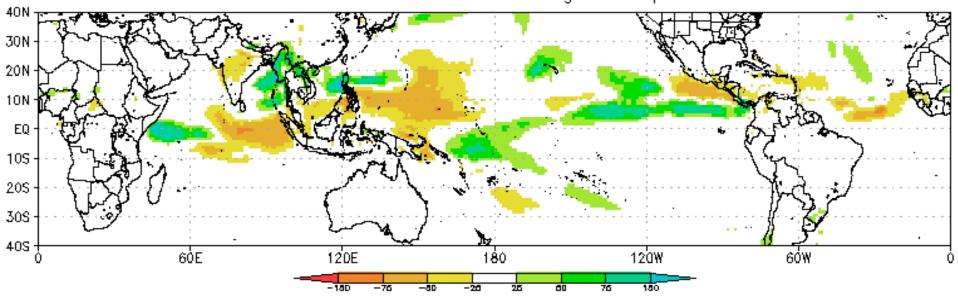
Rossby wave near 80E.

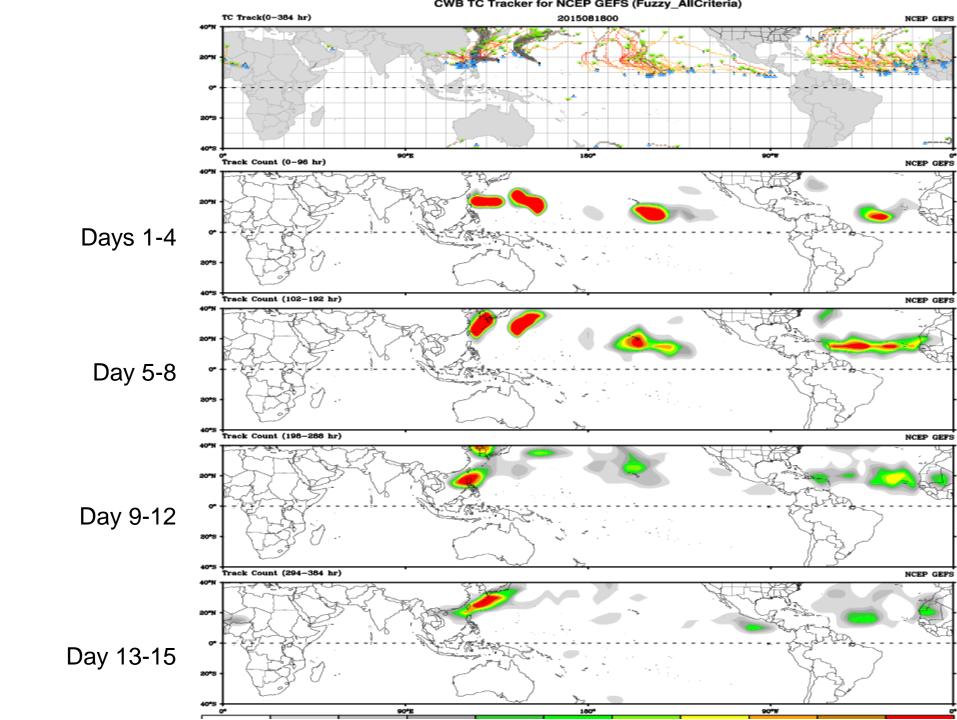


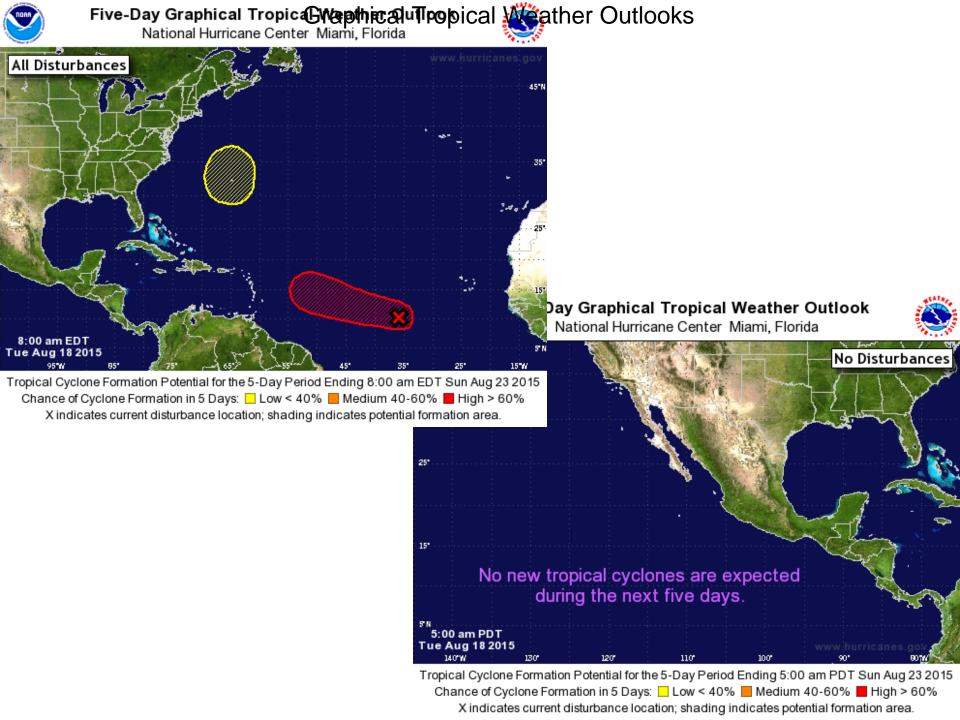
CFSv2 Precip Anomalies (mm) Issued 17Aug2015 Week—1 Forecast Ending 25Aug2015

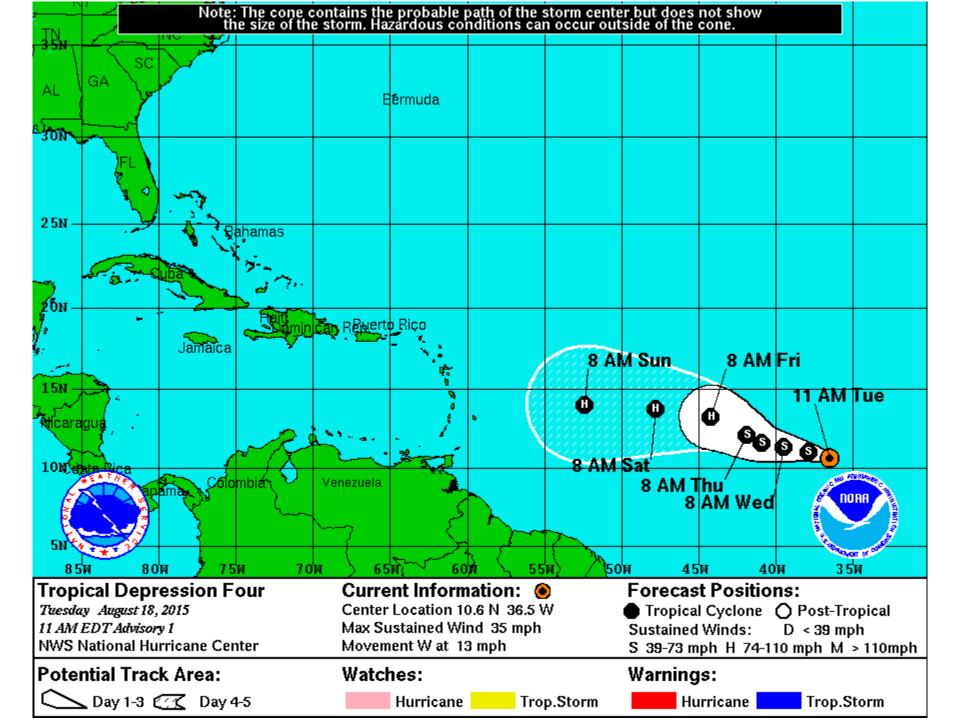


CFSv2 Precip Anomalies (mm) Issued 17Aug2015 Week—2 Forecast Ending 01Sep2015

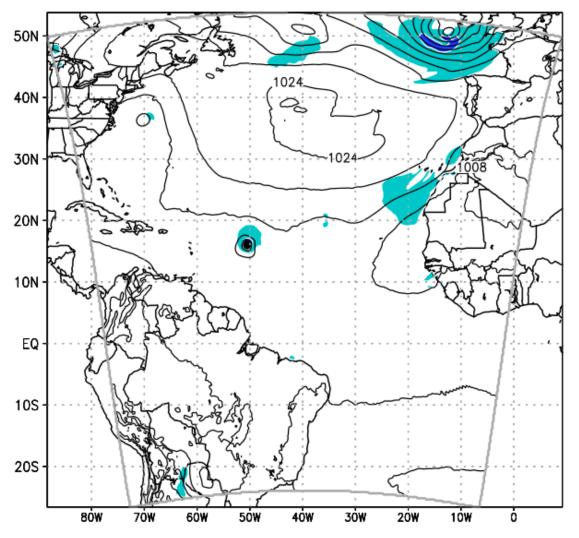




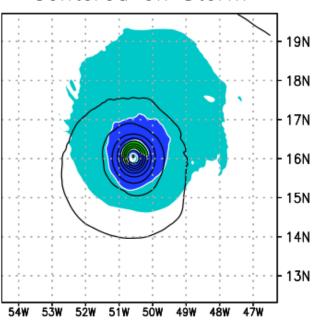




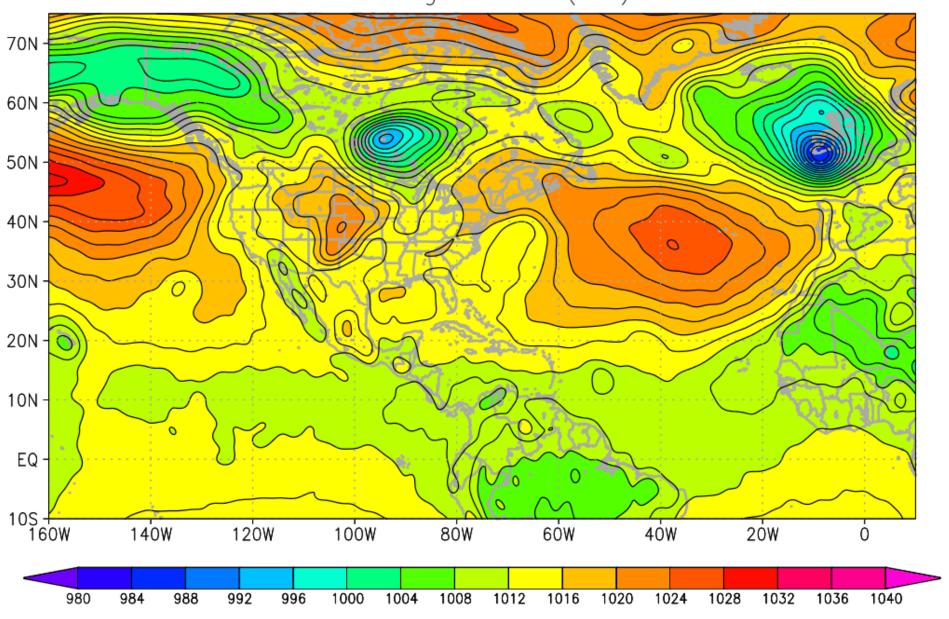
06Z18AUG2015—invest961 HWRF (0.2°) Wind at 10m (knots) & MSLP (mb) F=126 h Valid 12Z23AUG2015

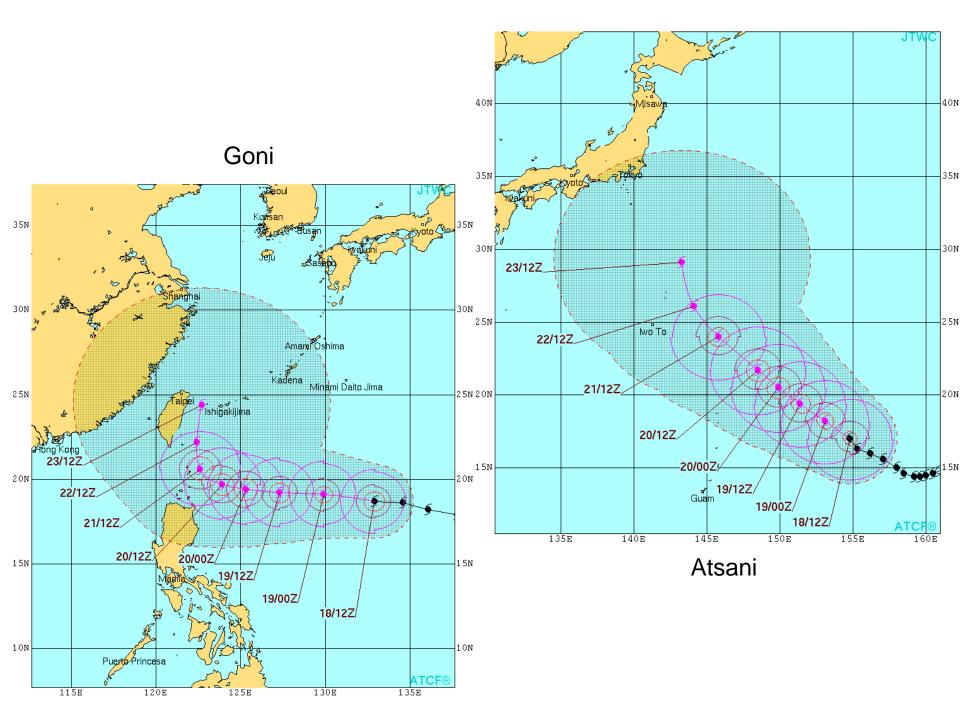


Fine Mesh Grid (0.02°) Centered on Storm

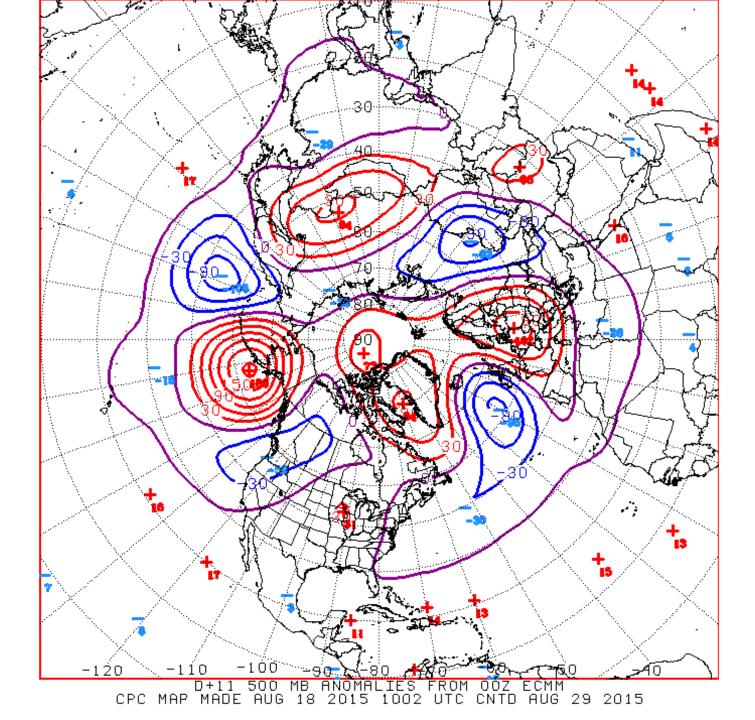


12Z18AUG2015 gfs MSLP (mb) T=126 h

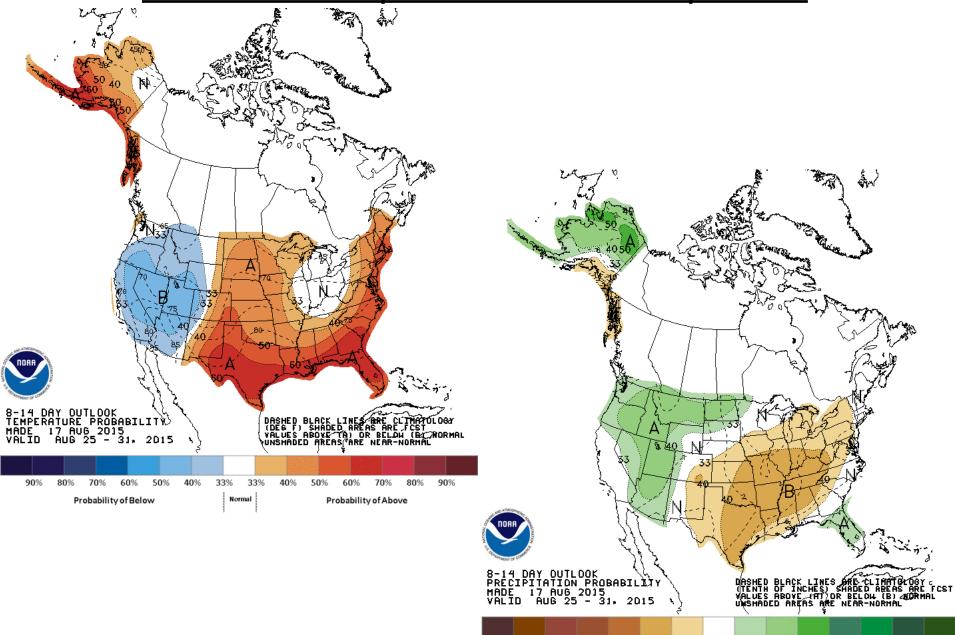




Connections to U.S. Impacts



Week 2 - Temperature and Precipitation



70%

Probability of Below

33%

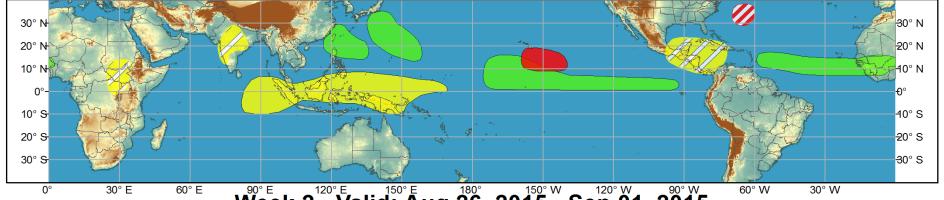
Normal

Probability of Above

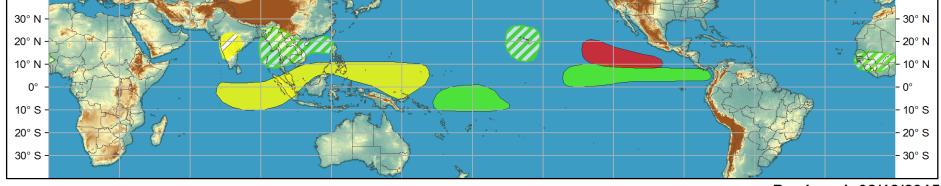
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Below-average rainfall









