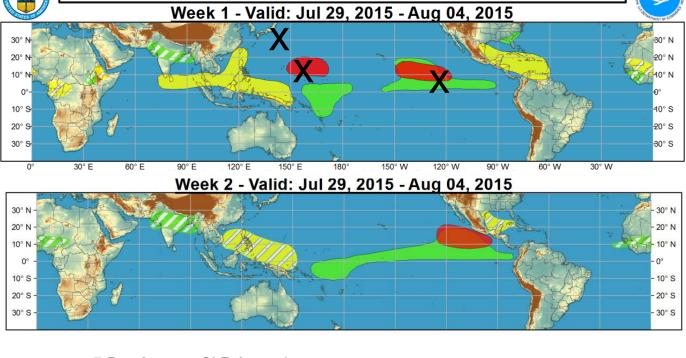
Global Tropics Hazards And Benefits Outlook August 4, 2015

Stephen Baxter

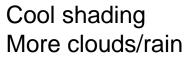
Outline

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

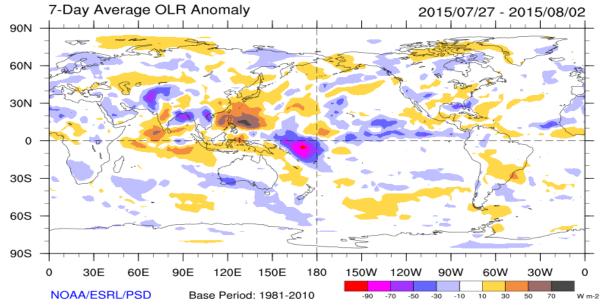
Outlook Review

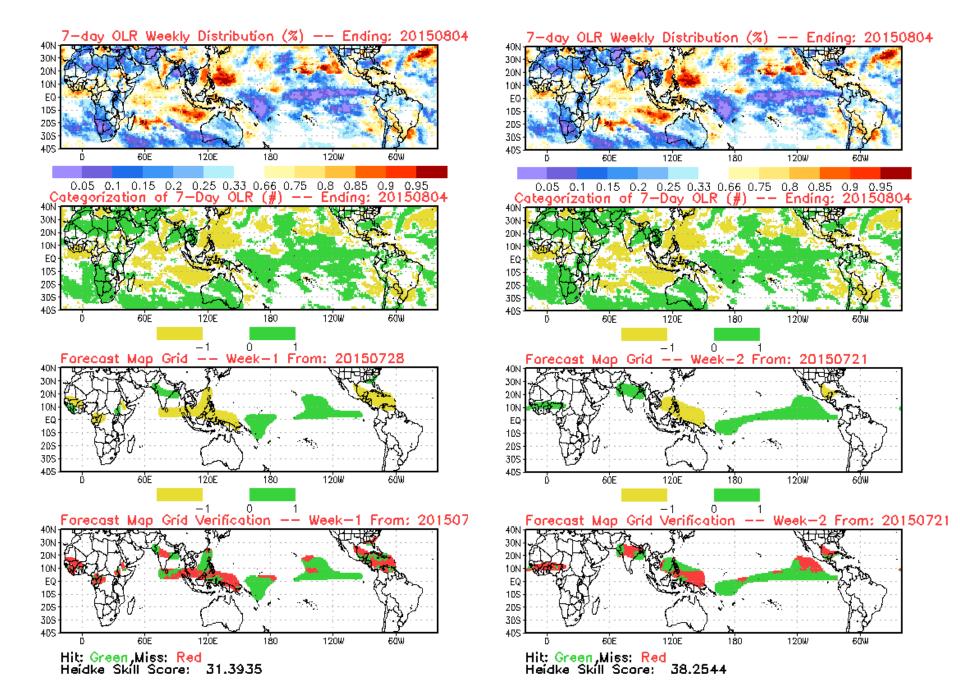


Global Tropics Hazards and Benefits Outlook - Climate Prediction Center



Warm shading Less clouds/rain





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 80% chance it will last into early spring 2016.

MJO and other subseasonal tropical variability:

- The MJO is weak and not likely to impact tropical variability during the next 2 weeks.
- Most dynamical models depict a stationary signal or some westward movement, likely due to tropical cyclone activity.

Extratropics:

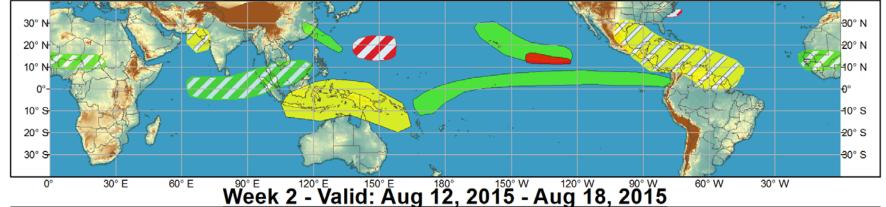
• The extended range temperature and precipitation forecasts for the U.S. are not likely to be impacted by the MJO, but could be influenced by El Niño over the next several weeks.

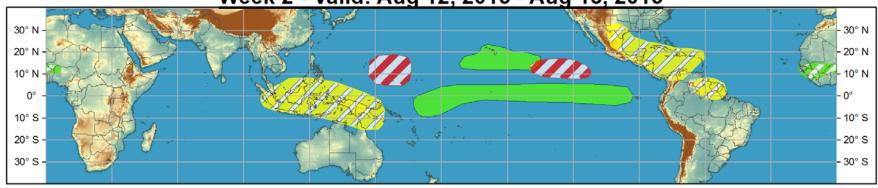
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Confidence High Moderate Produced: 08/04/2015

Forecaster: Baxter

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

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.















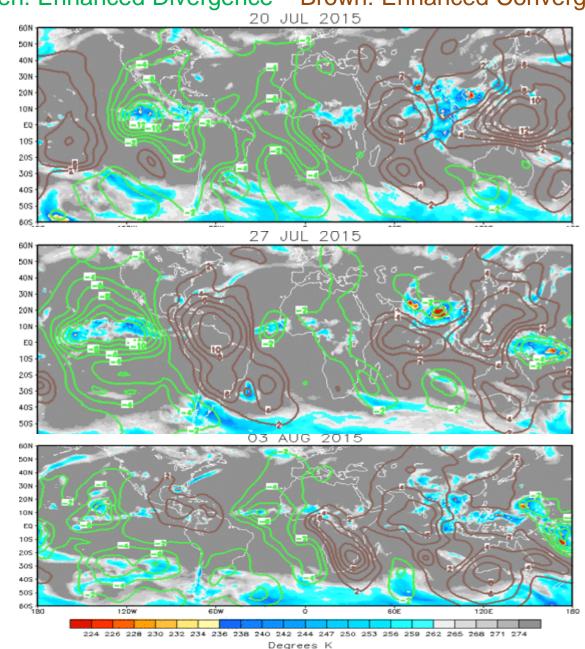
IR Satellite & 200-hpa Velocity Potential Anomalies

Green: Enhanced Divergence Brown: Enhanced Convergence

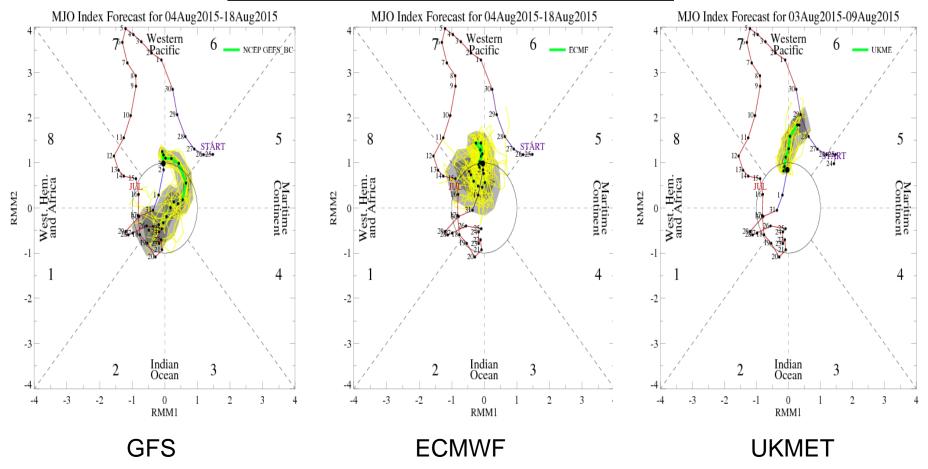
Base state and transient features evident.

Wave-1 structure broke down.

Some
westward
propagation
observed,
consistent
with an
equatorial
Rossby
wave.



MJO Observation/Forecast

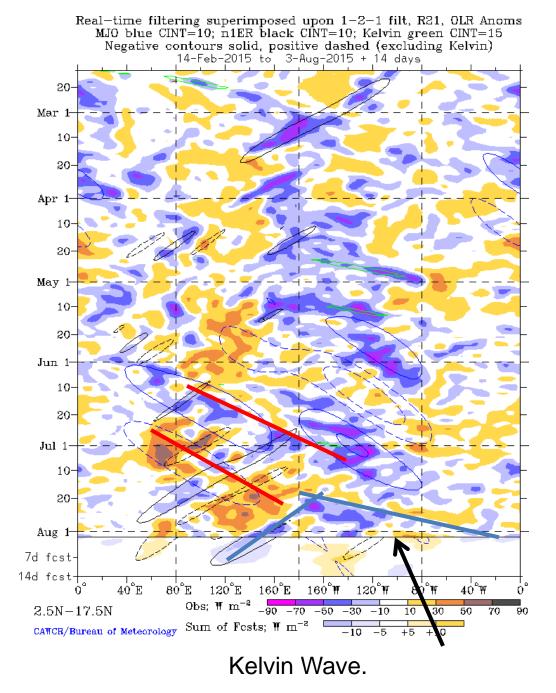


Wheeler-Hendon based analyses of model forecasts indicate little coherent MJO activity.

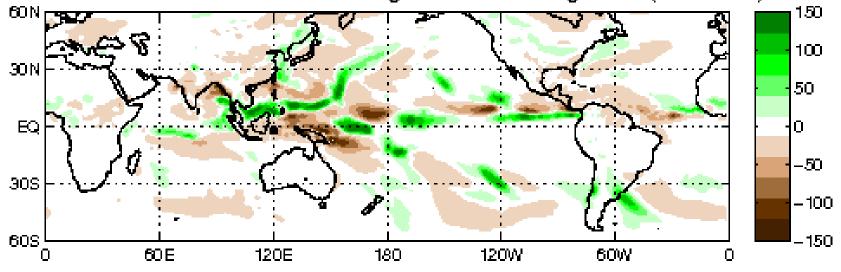
Low frequency likely to dominate pattern more than MJO.

Some indications of Rossby wave near 160E.

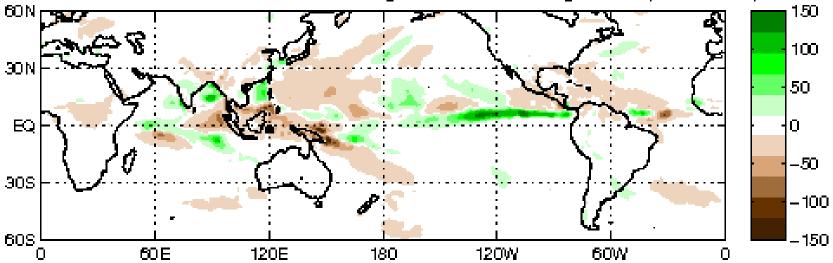
MJO indicated by red lines.



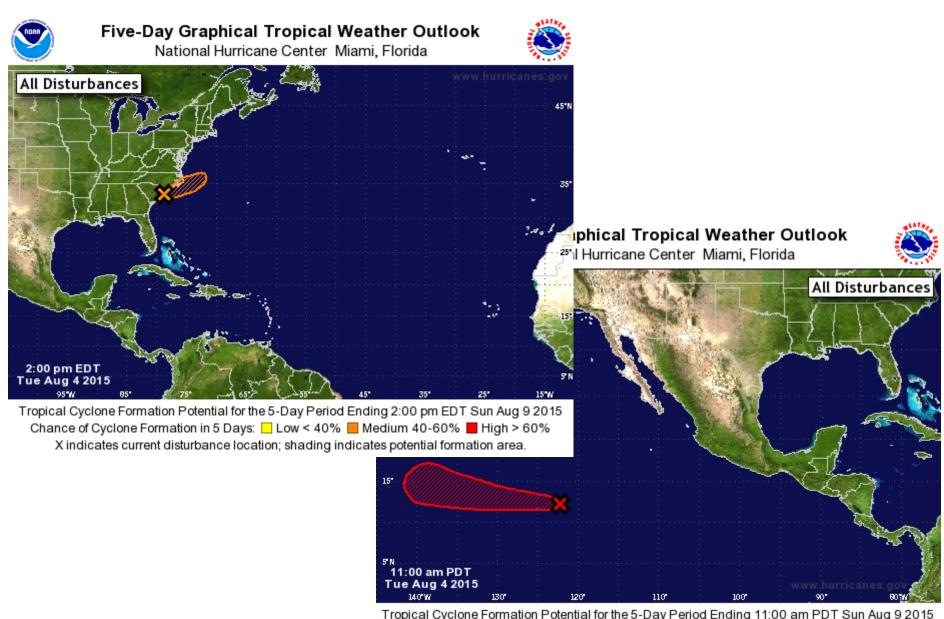
CFS: Anom. PREC Week: 1: 05-Aug-2015 to 11-Aug-2015 (mm/week)



CFS: Anom. PREC Week: 2: 12-Aug-2015 to 18-Aug-2015 (mm/week)



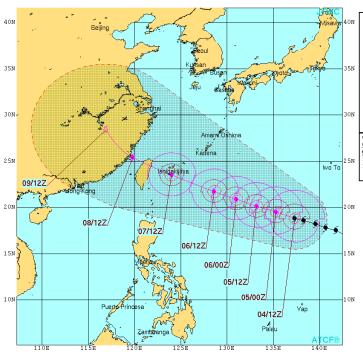
Graphical Tropical Weather Outlooks



Tropical Cyclone Formation Potential for the 5-Day Period Ending 11:00 am PDT Sun Aug 9 2015

Chance of Cyclone Formation in 5 Days: ☐ Low < 40% ☐ Medium 40-60% ☐ High > 60%

X indicates current disturbance location; shading indicates potential formation area.



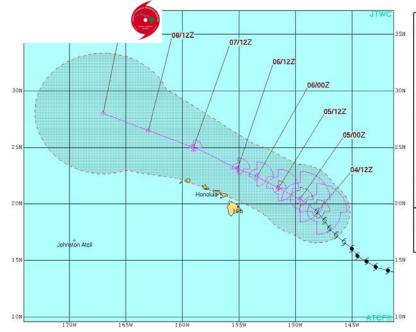


O LESS THAN 34 KNOTS

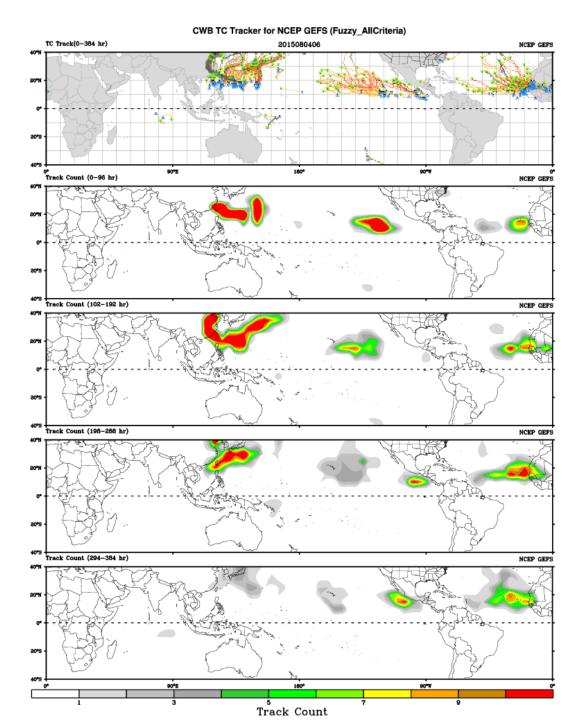
§ 34-63 KNOTS

• MORE THAN 63 KNOTS

PAST 6 HOURLY CYCLONE POSITS IN BLACK
FORECAST CYCLONE POSITS IN COLOR



PARTO NM DTG
(MM) (HFS) BARBERS POINT



Days 1-4

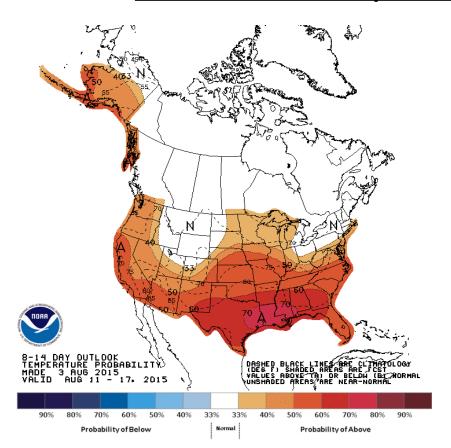
Day 5-8

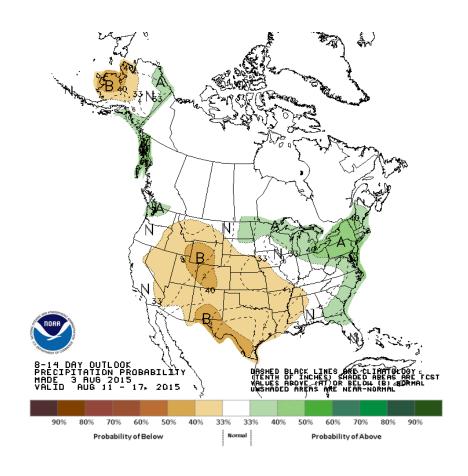
Day 9-12

Day 13-15

Connections to U.S. Impacts

Week 2 – Temperature and Precipitation





Y

Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Aug 12, 2015 - Aug 18, 2015



Confidence High Moderate Produced: 08/04/2015

Forecaster: Baxter

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