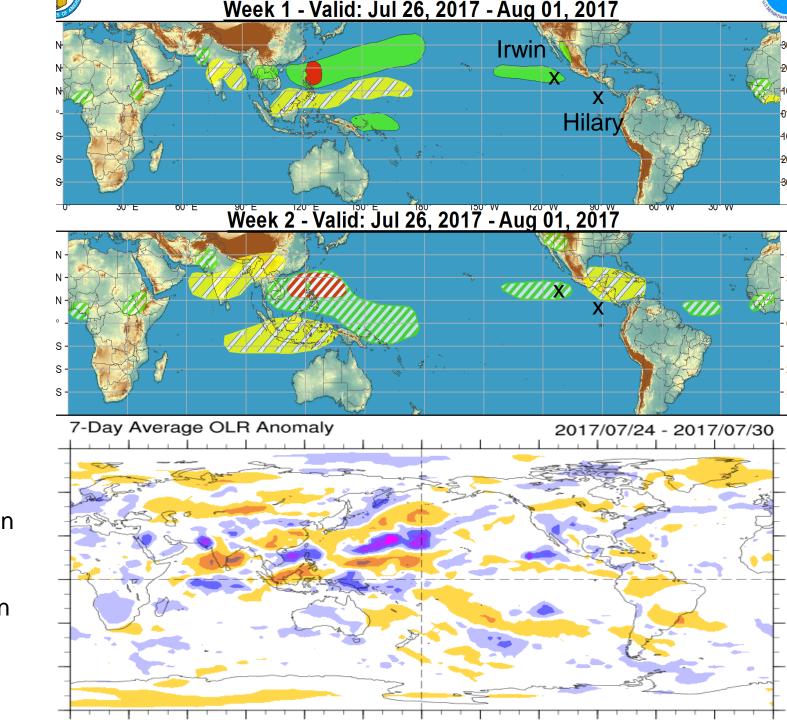
Global Tropics Hazards And Benefits Outlook 8/1/2017

Anthony Artusa

<u>Outline</u>

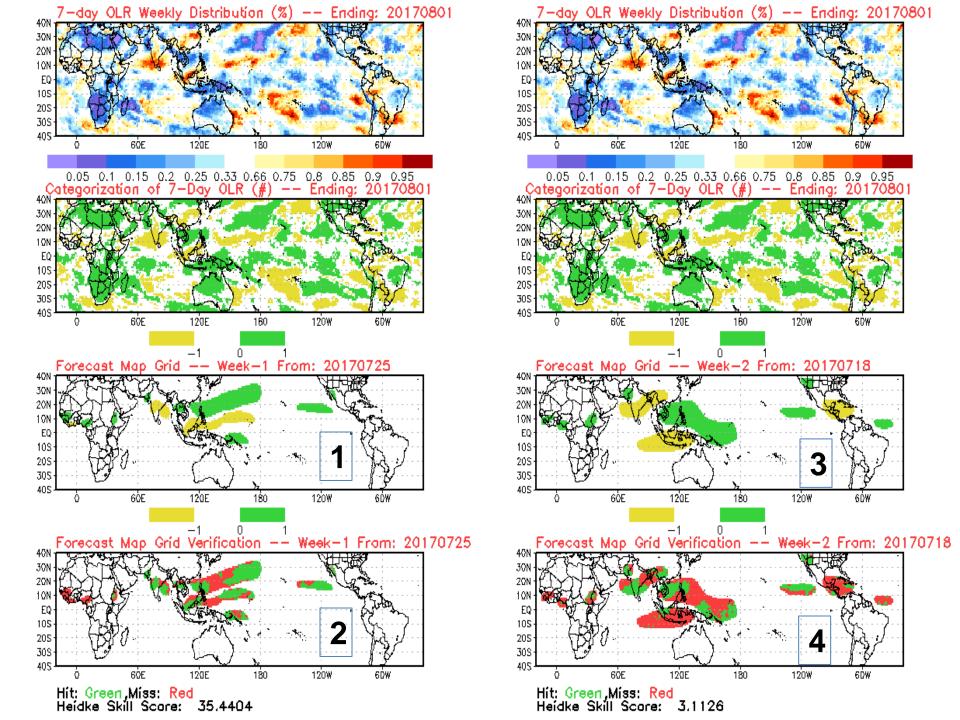
- 1. Review of Recent Conditions
- 2. Synopsis of Climate Modes
- 3. GTH Outlook and Forecast Discussion
- 4. Connections to U.S. Impacts

Outlook Review



Cool shading More clouds/rain

Warm shading Less clouds/rain



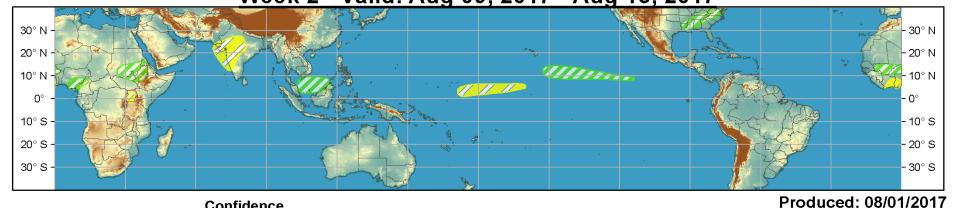


Global Tropics Hazards and Benefits Outlook - Climate Prediction Center









Confidence High Moderate

Forecaster: Artusa

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

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.



Above-normal temperatures











Synopsis of Climate Modes

ENSO:

• ENSO-neutral is favored (~50 to 55% chance) into the Northern Hemisphere winter 2017-18.

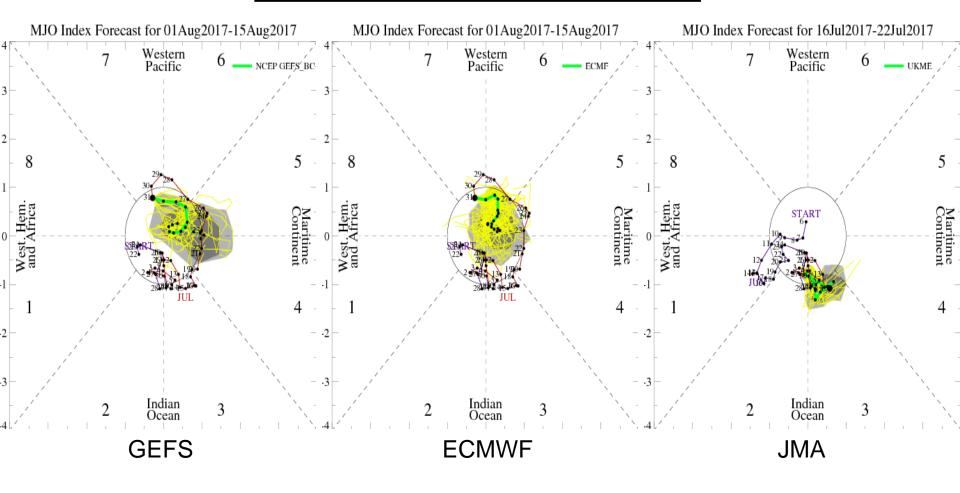
MJO and other subseasonal tropical variability:

- The MJO remained active, and remains over the Maritime Continent and western Pacific Ocean. A Kelvin wave is moving through phases 7,8... expected to continue into Atlantic during Week-1.
- Dynamical models predict the MJO signal will be affected by westward-moving modes of variability (ERWs), kelvin wave activity, and the low-frequency signal during the next 2 weeks. TC activity is forecast to be enhanced across portions of the western Pacific, the eastern Pacific, and the central Atlantic basins during Week-1. Week-2 impacts are very uncertain.

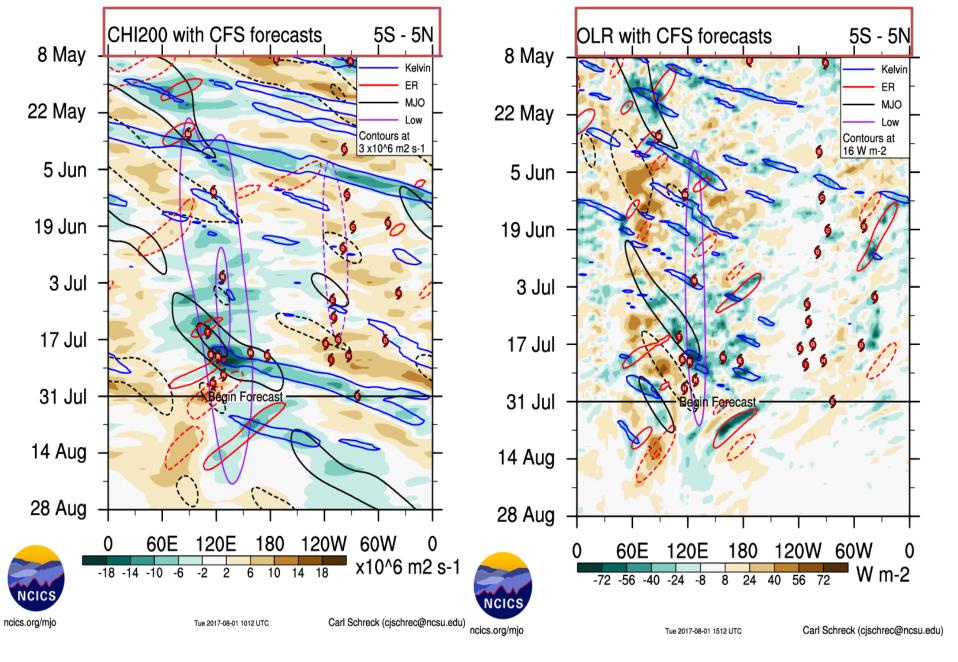
Extratropics:

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

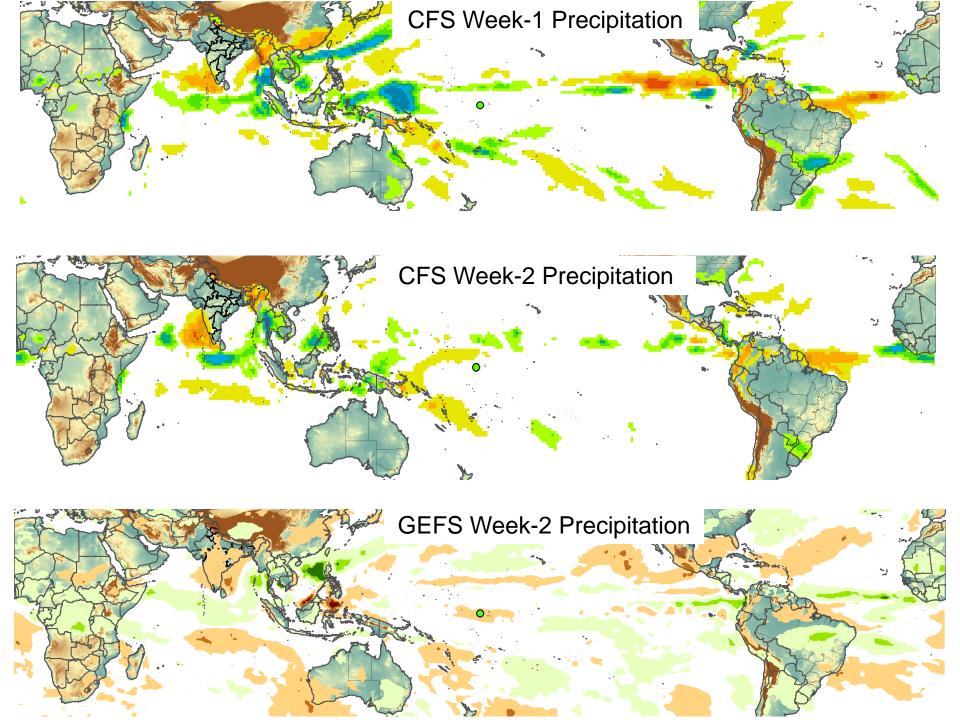
MJO Observation/Forecast

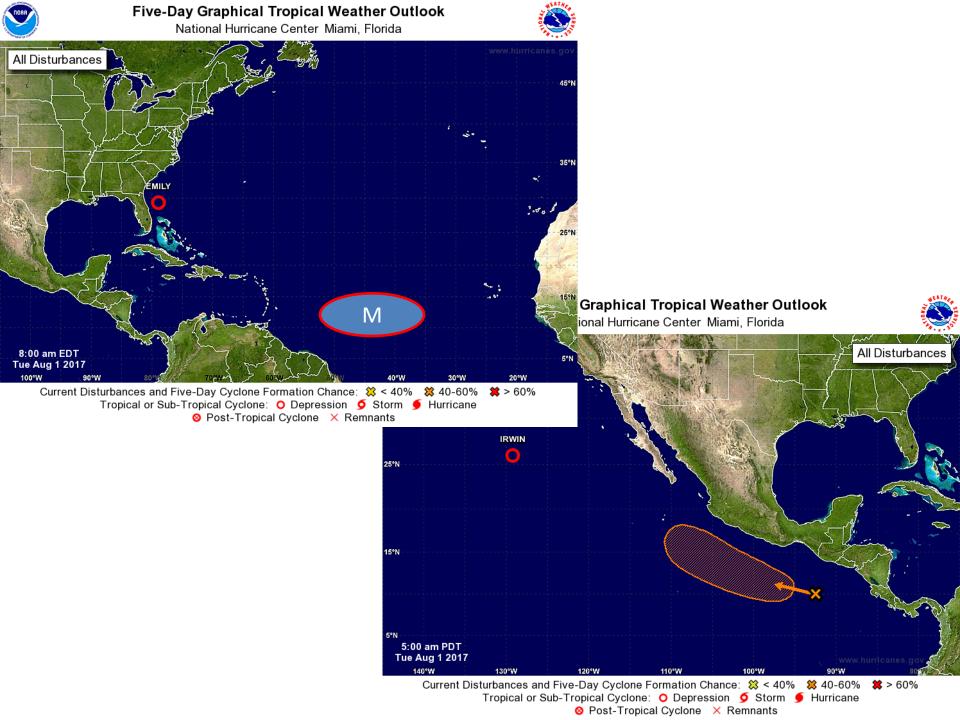


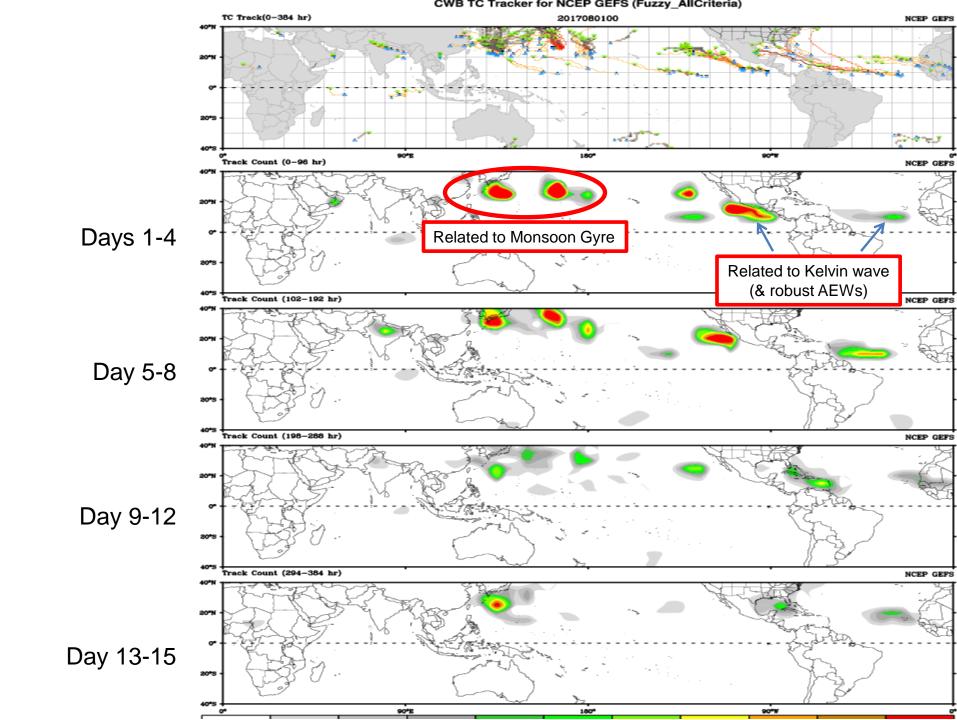
Wheeler-Hendon based analyses of model forecasts indicate westward-moving modes of variability during Week-1, with possible re-emergence of a signal in the Indian Ocean during Week-2.



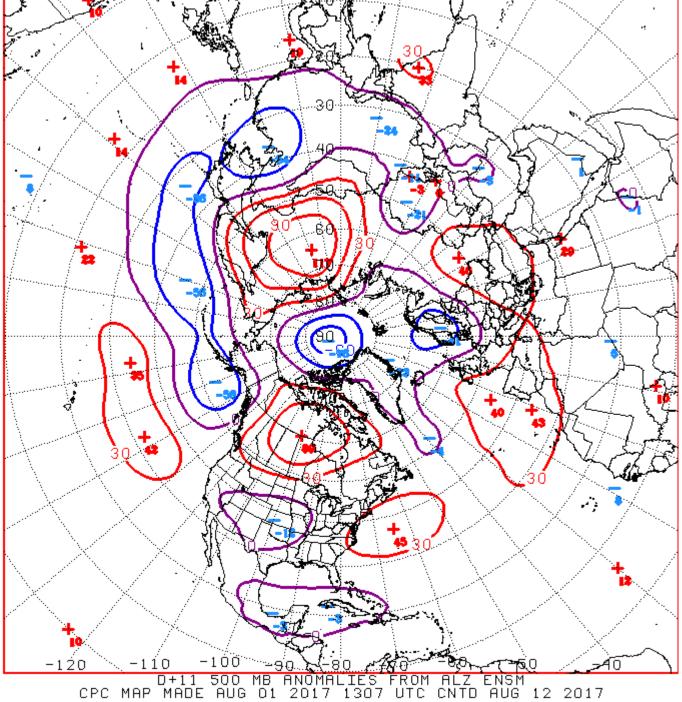
MJO, Rossby waves, Kelvin waves, Low-frequency signal all having an impact



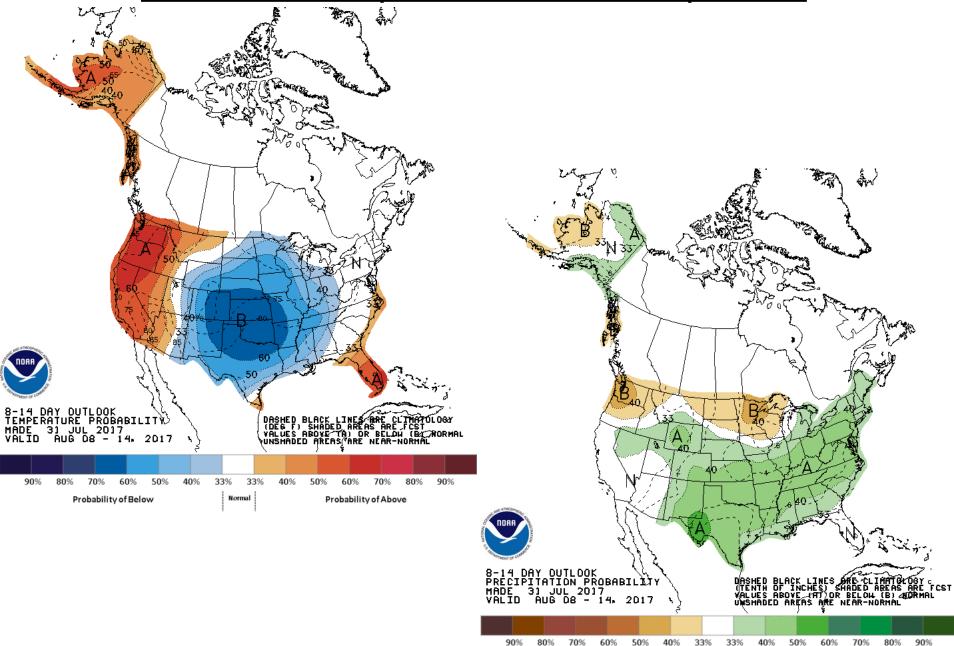




Connections to U.S. Impacts



Week 2 - Temperature and Precipitation



Probability of Below

Normal

Probability of Above



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Confidence High Moderate

Forecaster: Artusa Development of a tropical cyclone (tropical depression - TD, or greater strength).

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

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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