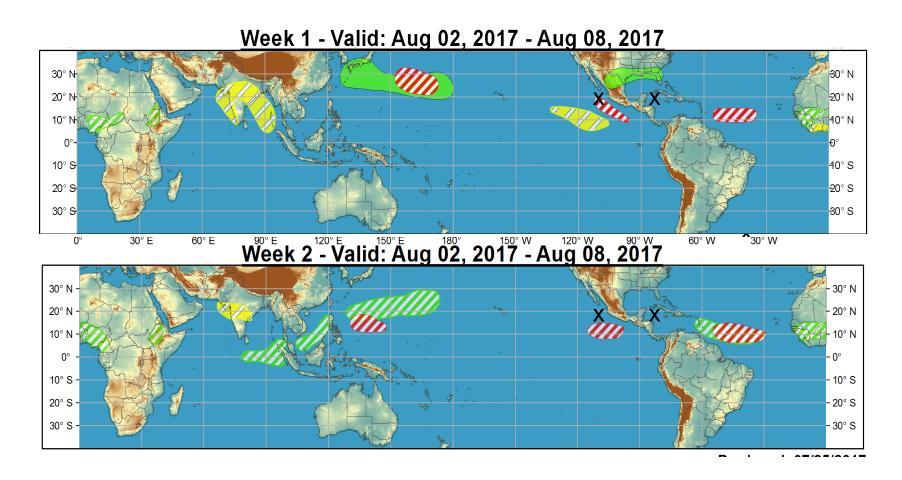
Global Tropics Hazards And Benefits Outlook 8/8/2017

Adam Allgood

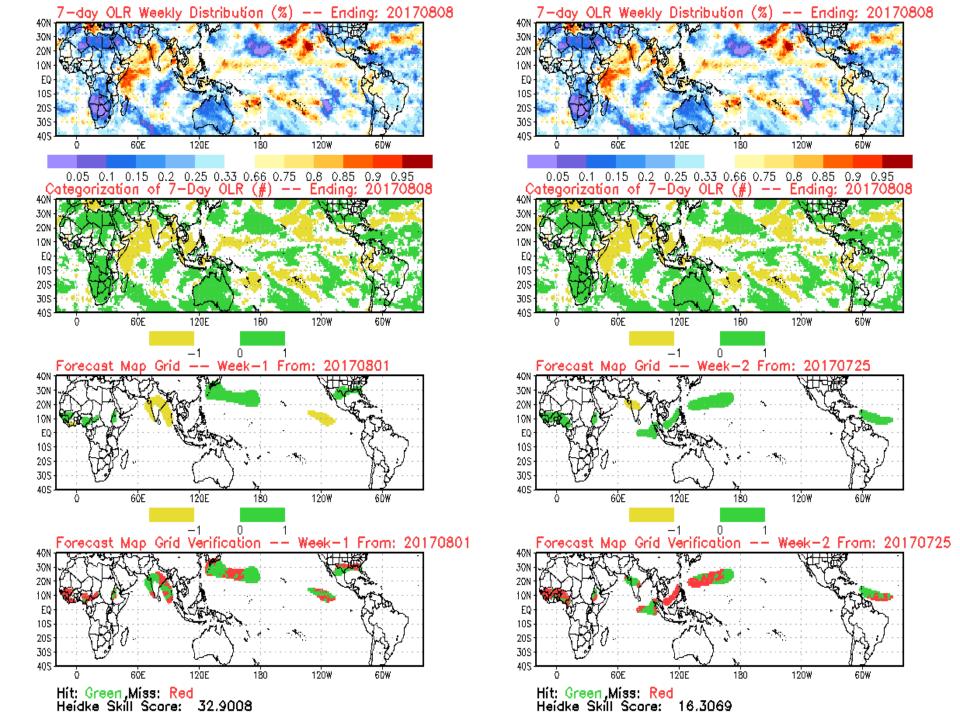
<u>Outline</u>

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

<u>Outlook Review – Tropical Cyclones</u>



TS 11-E – dissipated after a day
TS Franklin – made landfall over the Yucatan



Synopsis of Climate Modes

ENSO:

- ENSO-neutral is favored (~50 to 55% chance) into the Northern Hemisphere winter 2017-18
- The next ENSO Diagnostic Discussion will be released on 10 August

MJO and other subseasonal tropical variability:

- The MJO weakened rapidly over the past several days, as mid-latitude interference from the Southern Hemisphere disrupted the enhanced convection over the Maritime Continent and West Pacific.
- Dynamical models indicate a continued weak MJO signal during the next two weeks, with any enhanced convective signal occurring over the Western Hemisphere (TC related?) or Indian Ocean (ECMWF).

Extratropics:

• The extended range temperature and precipitation forecasts for the U.S. are not likely to be impacted by MJO activity or recurving tropical cyclones (Noru dissipated over Japan). A trough over the eastern U.S. may play a role in the track of a potential Atlantic TC.



Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Aug 16, 2017 - Aug 22, 2017



Confidence High Moderate Produced: 08/08/2017

Forecaster: Allgood

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.













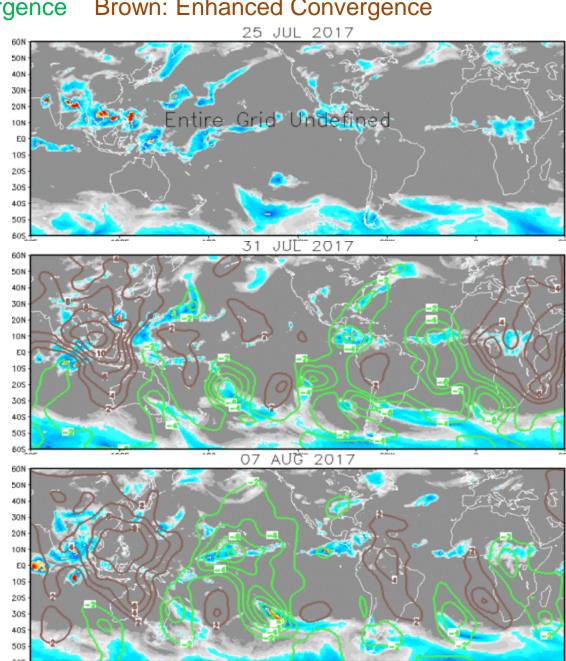
IR Satellite & 200-hpa Velocity Potential Anomalies

Green: Enhanced Divergence Brown: Enhanced Convergence

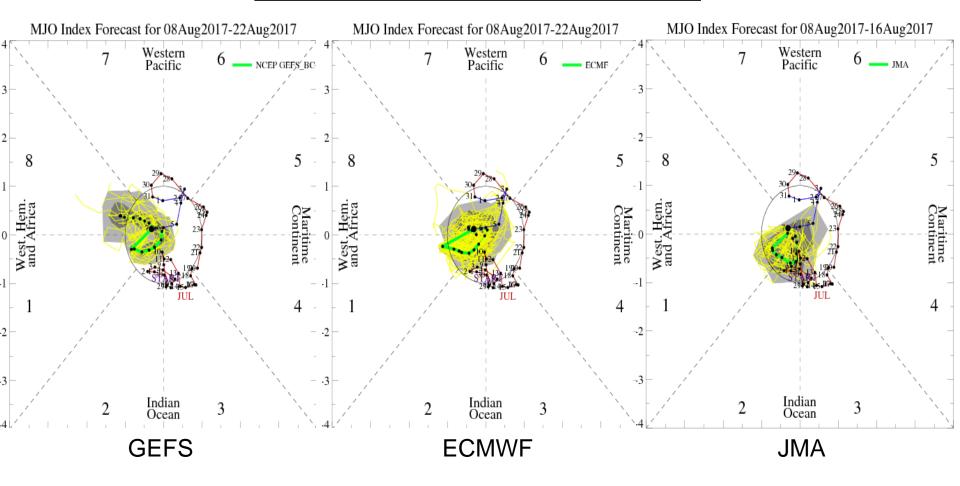
Technical difficulties.

RMM-based index showing signal over West Pacific, not impressive at the upper-levels.

Wave-2 projection, but note upper-level signal over the central Pacific.

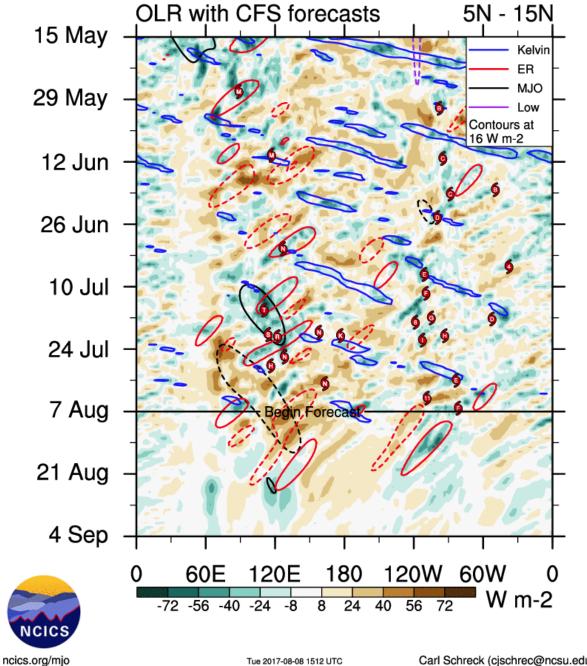


MJO Observation/Forecast



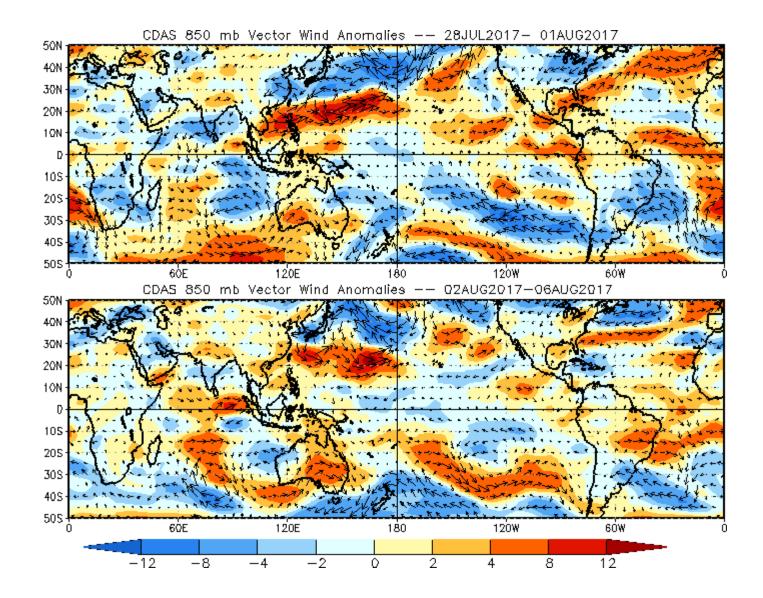
GEFS – regressed propagation followed by amplification over the Western Hemisphere ECMWF and JMA – weak signal, non-bias corrected weakly favors Indian Ocean

Low frequency enhanced convection over Maritime Continent disrupted, as well as the Asian monsoon

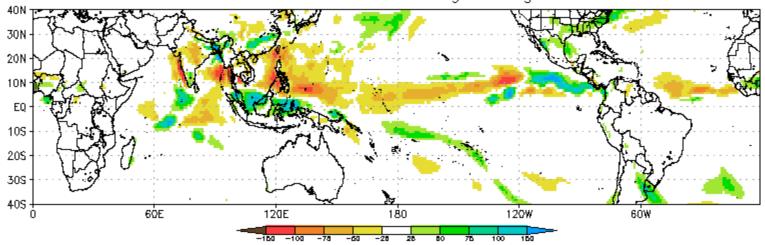


Tue 2017-08-08 1512 UTC

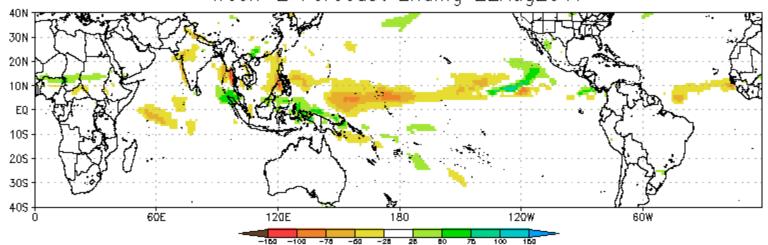
Carl Schreck (cjschrec@ncsu.edu)

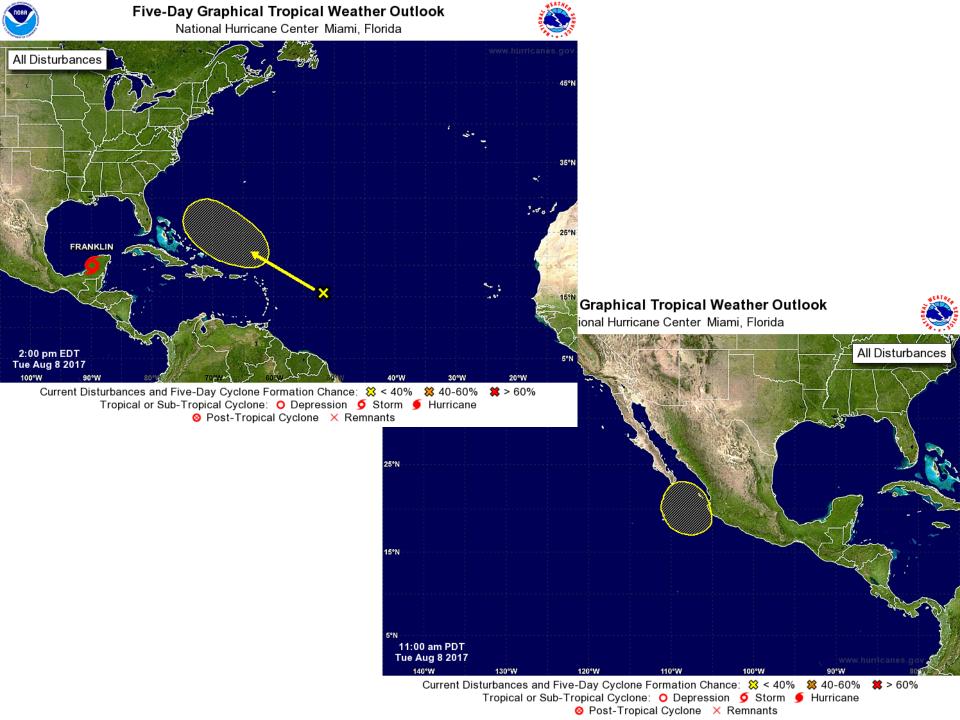


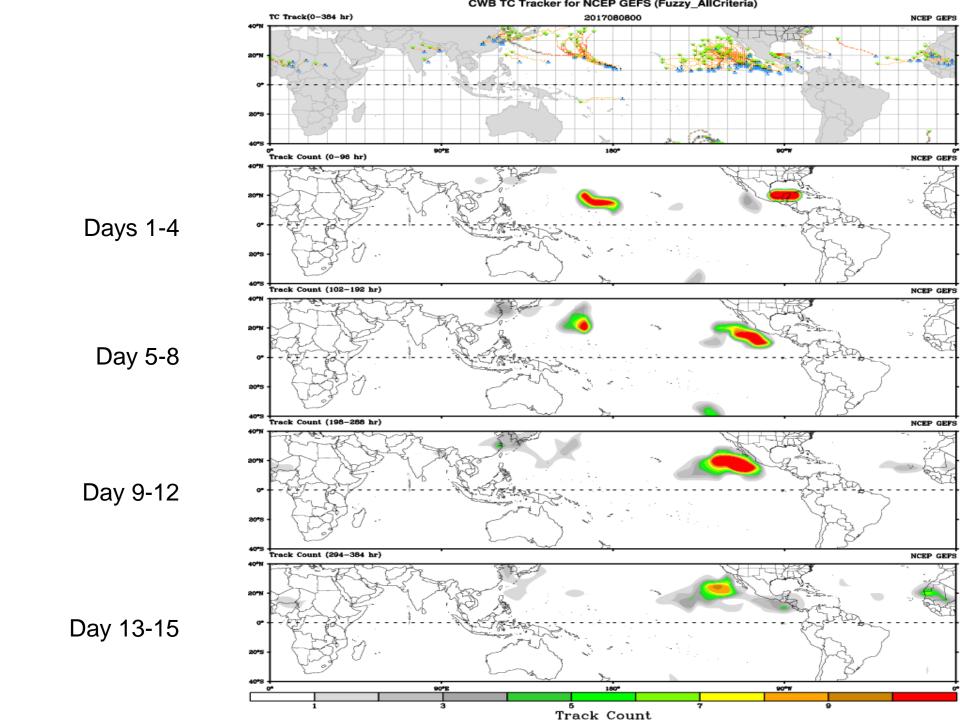
CFS Precipitation Anomalies (mm) Issued 07Aug2017 Week-1 Forecast Ending 15Aug2017



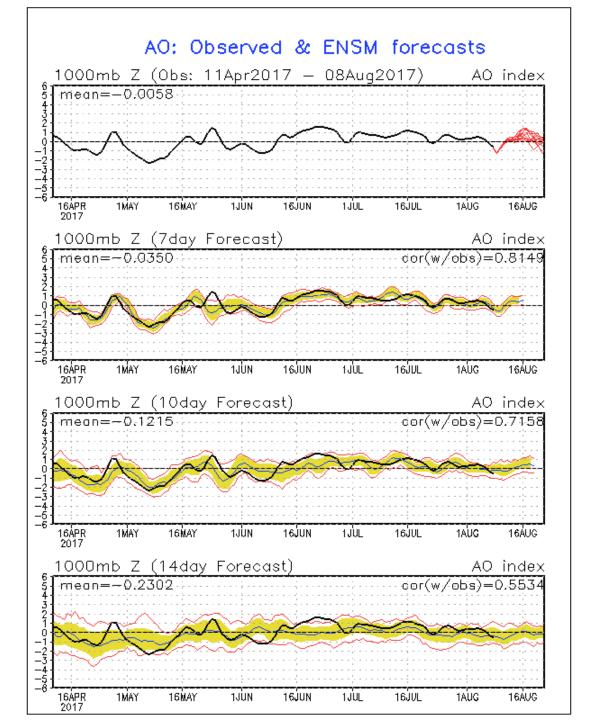
CFS Precipitation Anomalies (mm) Issued 07Aug2017 Week-2 Forecast Ending 22Aug2017

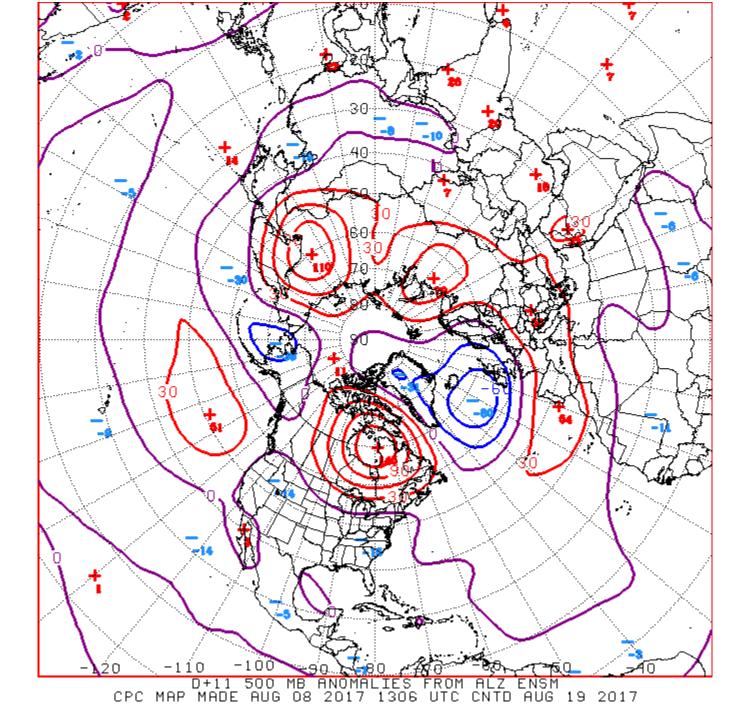




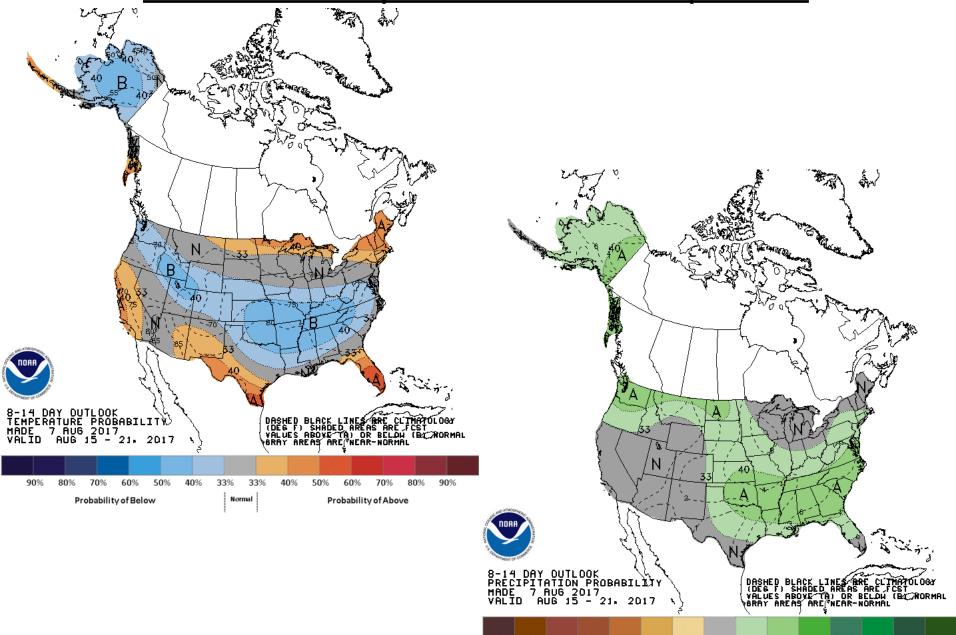


Connections to U.S. Impacts





Week 2 - Temperature and Precipitation



70%

Probability of Below

33%

Normal

Probability of Above

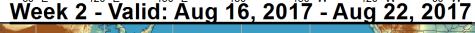


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