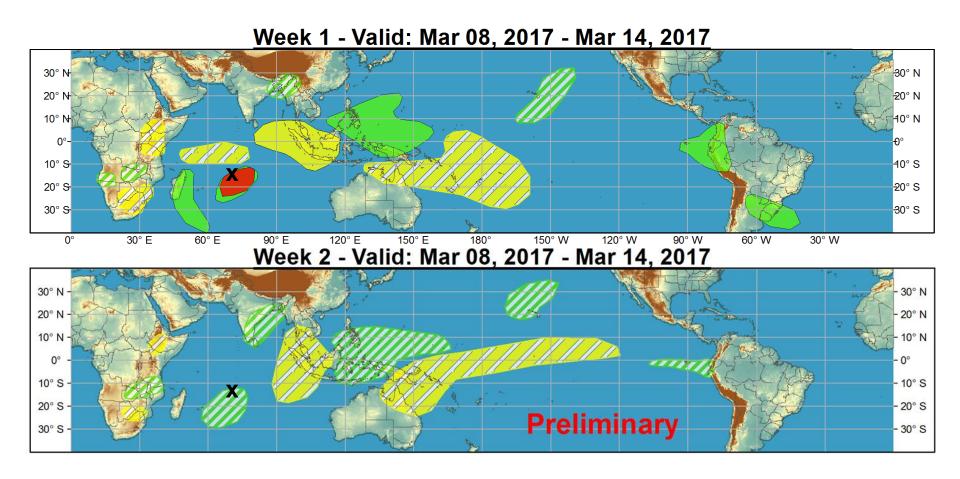
Global Tropics Hazards And Benefits Outlook 3/14/2017

Adam Allgood

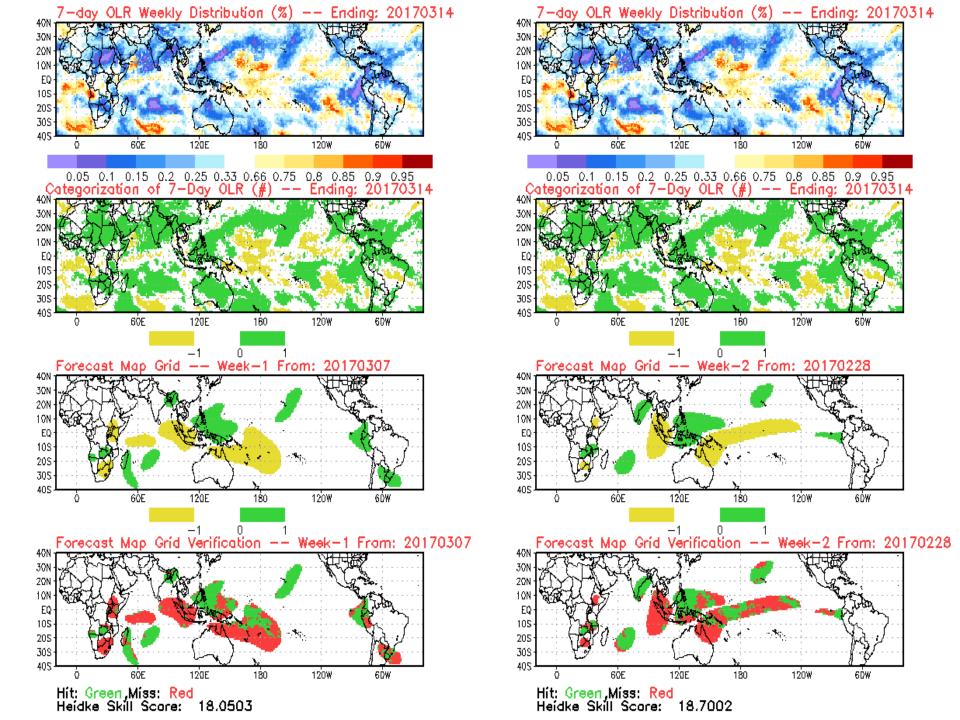
<u>Outline</u>

- 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>



Tropical Storm Eleven – formed 8 March Max sustained winds: 40kt



Synopsis of Climate Modes

ENSO:

• ENSO-neutral conditions are favored to continue through at least the Northern Hemisphere spring 2017, with increasing chances for El Niño development into the fall.

MJO and other subseasonal tropical variability:

- The MJO weakened during the past week
- Dynamical model MJO index forecasts generally depict a weak signal over the next two weeks.
- Rossby waves, the remnant low frequency state, and mid-latitudes influencing pattern.

Extratropics:

• Due to the lack of a robust intraseasonal signal in the tropics, the effects of tropical forcing on the extratropics is uncertain.



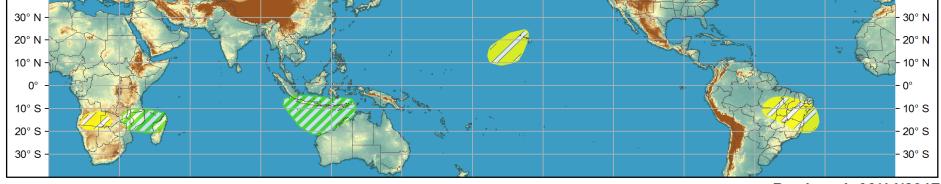
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Mar 22, 2017 - Mar 28, 2017



Confidence High Moderate Produced: 03/14/2017

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.

Below-average rainfall Weekly total rainfall in the lower third of the historical range.

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













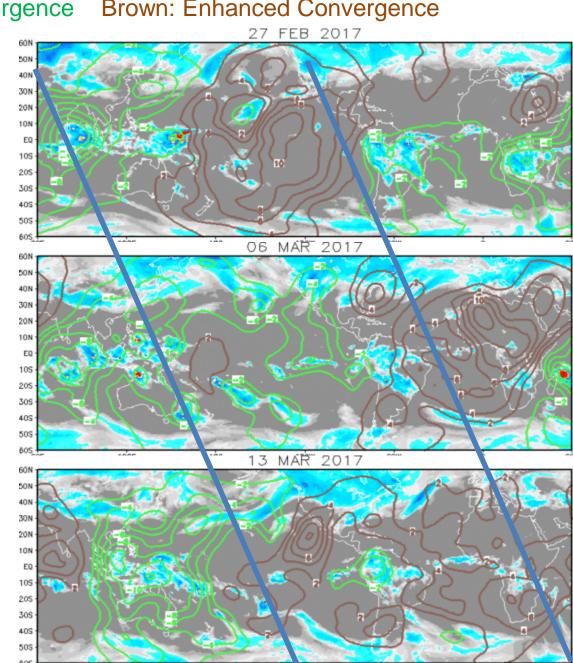
IR Satellite & 200-hpa Velocity Potential Anomalies

Green: Enhanced Divergence Brown: Enhanced Convergence

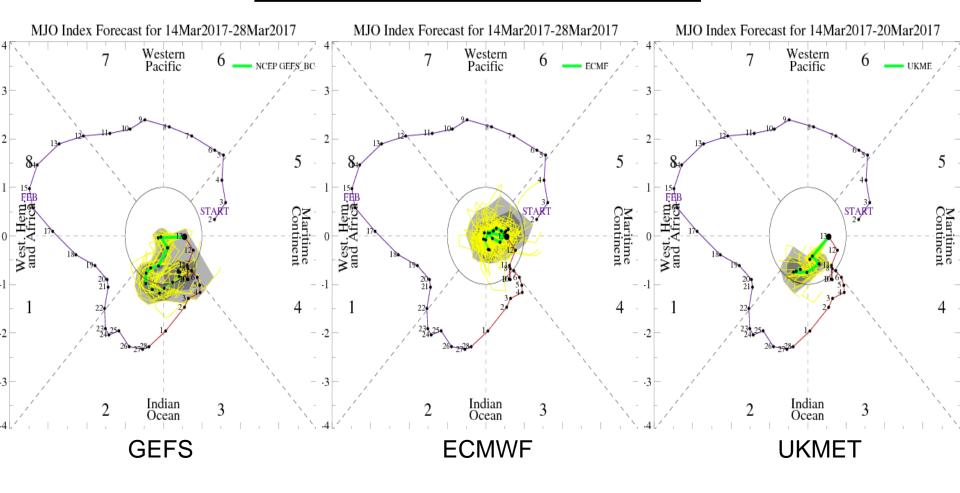
Wave-1 with enhanced phase emerging over the Indian Ocean.

Less coherent Wave-1 over Maritime Continent. Westward moving features competing.

Semi-coherent structure remains. but zonal width of enhanced phase is very limited wrt canonical MJO signal. Note low frequency enhanced signal over western South America

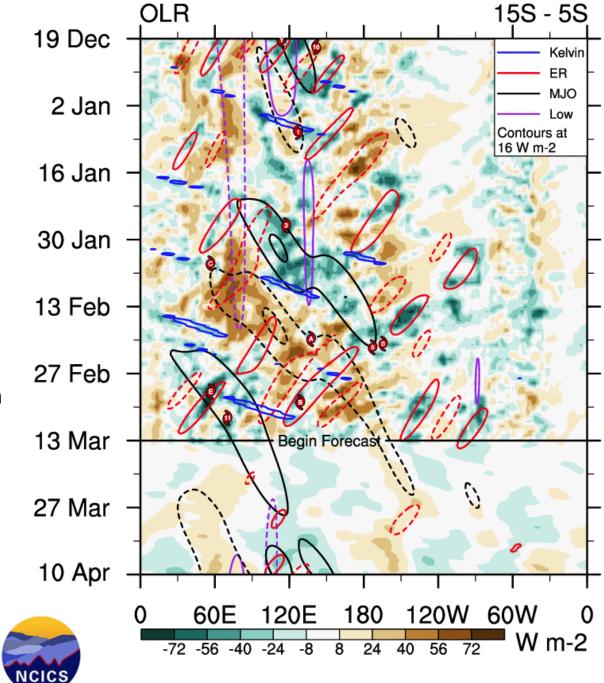


MJO Observation/Forecast



Wheeler-Hendon based analyses of model forecasts indicate a weak MJO signal during the next two weeks.

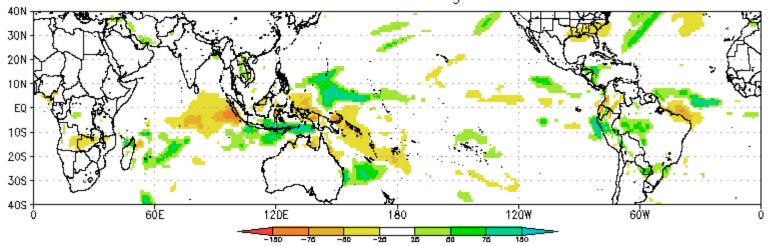
GEFS is a bit of an outlier showing a weak signal (scenario is unlikely)



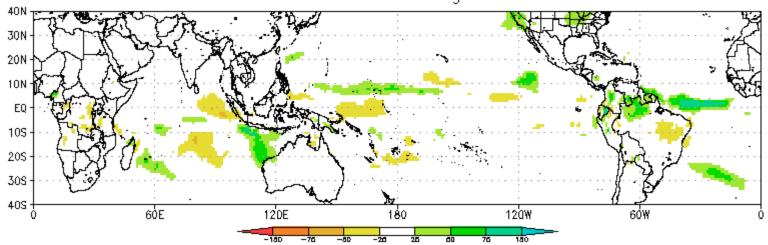
Weakened MJO apparent in OLR field.

Rossby Wave interference, and also remnant low frequency state

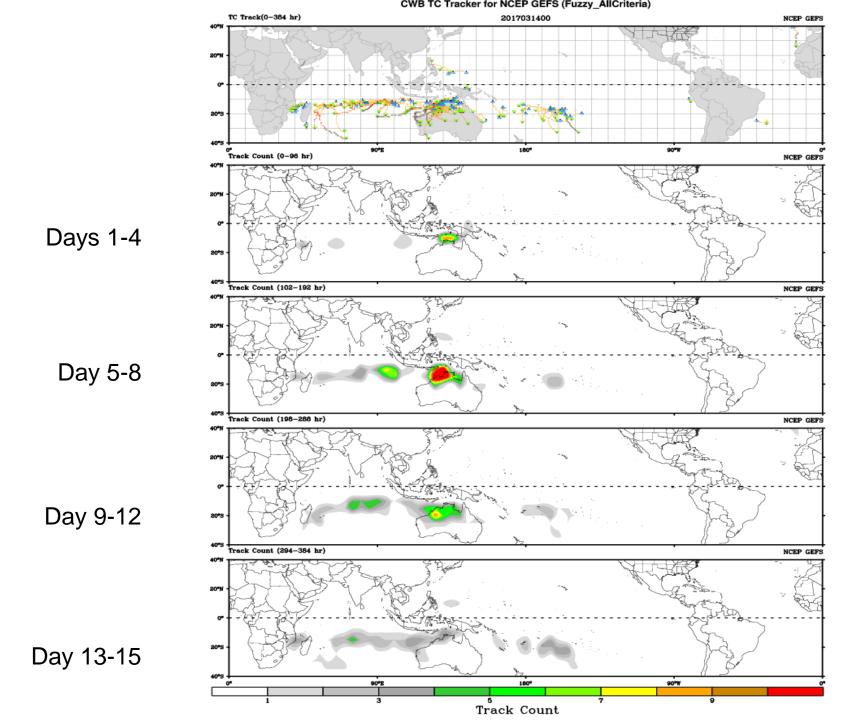
CFSv2 Precip Anomalies (mm) Issued 13Mar2017 Week-1 Forecast Ending 21Mar2017



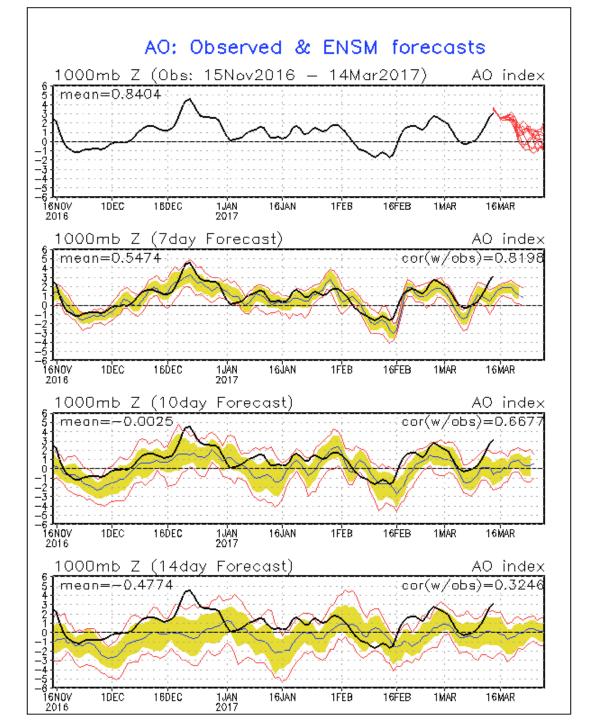
CFSv2 Precip Anomalies (mm) Issued 13Mar2017 Week-2 Forecast Ending 28Mar2017

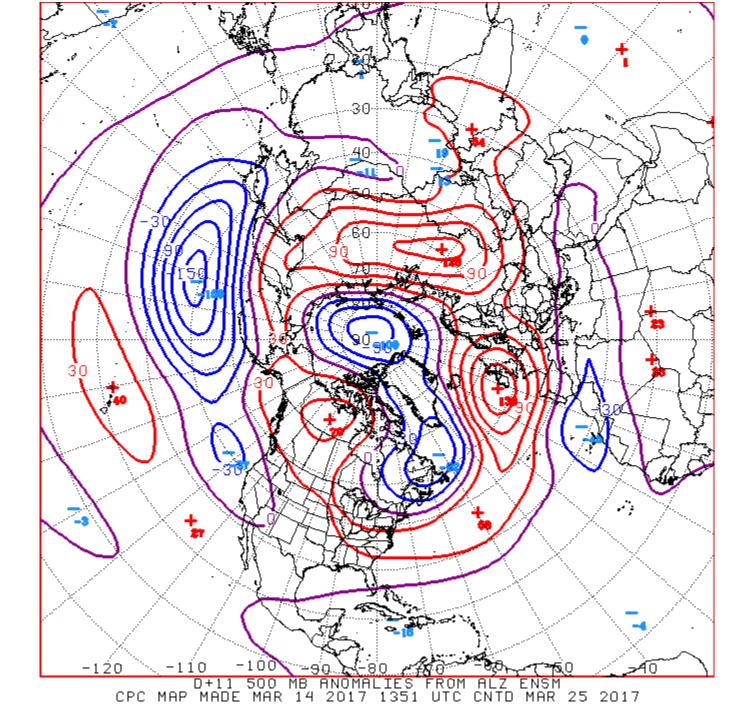


VALID TIME: 13/1800Z (PRODUCT OF JTWC/SATOPS) NO SUSPECT AREAS

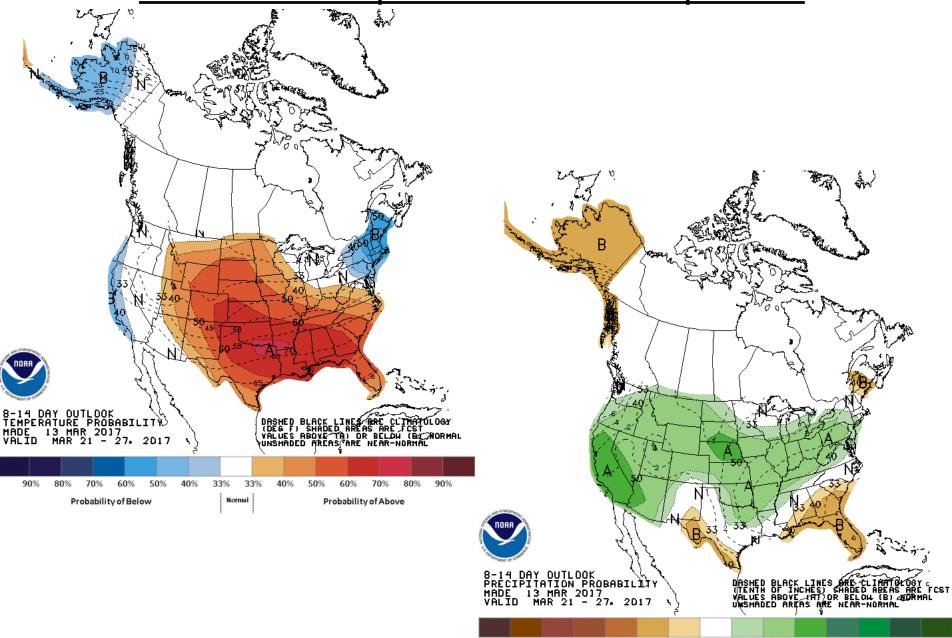


Connections to U.S. Impacts





Week 2 - Temperature and Precipitation



70%

Probability of Below

33%

Normal

Probability of Above



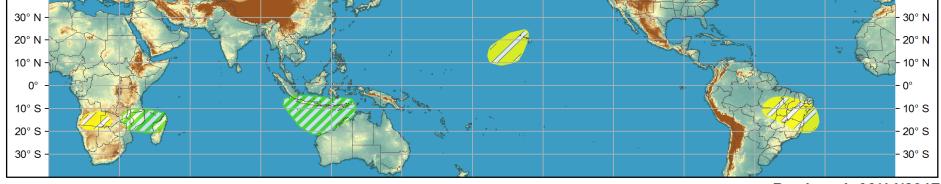
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