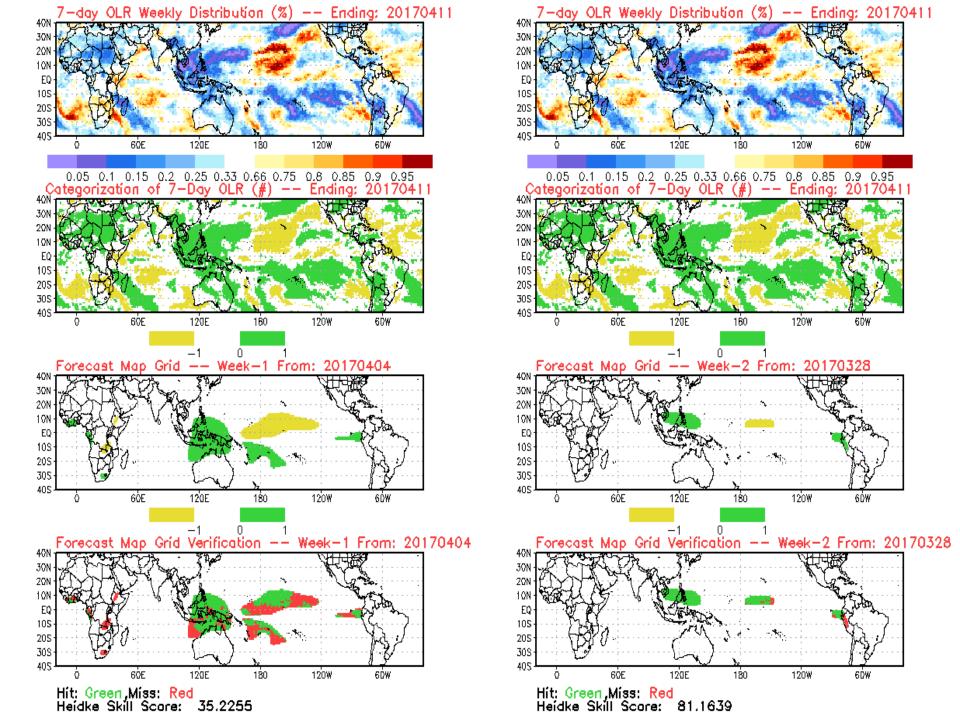
# Global Tropics Hazards And Benefits Outlook 4/11/2017

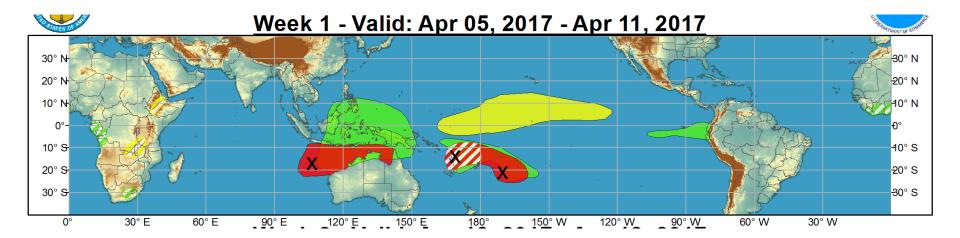
**Brad Pugh** 

### **Outline**

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



## **Tropical Cyclone Verification**



#### **Tropical Cyclone Ernie**

- Apr 6-8: rapidly intensified to max winds of 130 knots over the South Indian Ocean
- Dissipated a few days later

#### **Tropical Cyclone Cook**

- Developed on Apr 8 over the southwest Pacific
- Crossed New Caledonia with max sustained winds of 85 knots

#### **Tropical Cyclone 14P**

Short-lived and developed east of the Date Line

# Synopsis of Climate Modes

#### ENSO:

- ENSO-neutral conditions are expected to continue through boreal Spring.
- Increasing chances of El Niño development through boreal Autumn.
- The next ENSO update will be released on 13 Apr 2017.

#### MJO and other subseasonal tropical variability:

- The MJO remained weak, with slightly more organization in recent days.
- Dynamical models indicate the continuation of a weak signal with fast propagation of the enhanced phase into the Western Hemisphere during the next two weeks.

#### **Extratropics**:

- The extended range temperature and precipitation forecasts for the U.S. are not likely to be influenced by the MJO.
- Model solutions are in good agreement with a trough persisting south of the Aleutians.



#### Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Apr 19, 2017 - Apr 25, 2017



Confidence Moderate Produced: 04/11/2017

Forecaster: Pugh

**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.

**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.



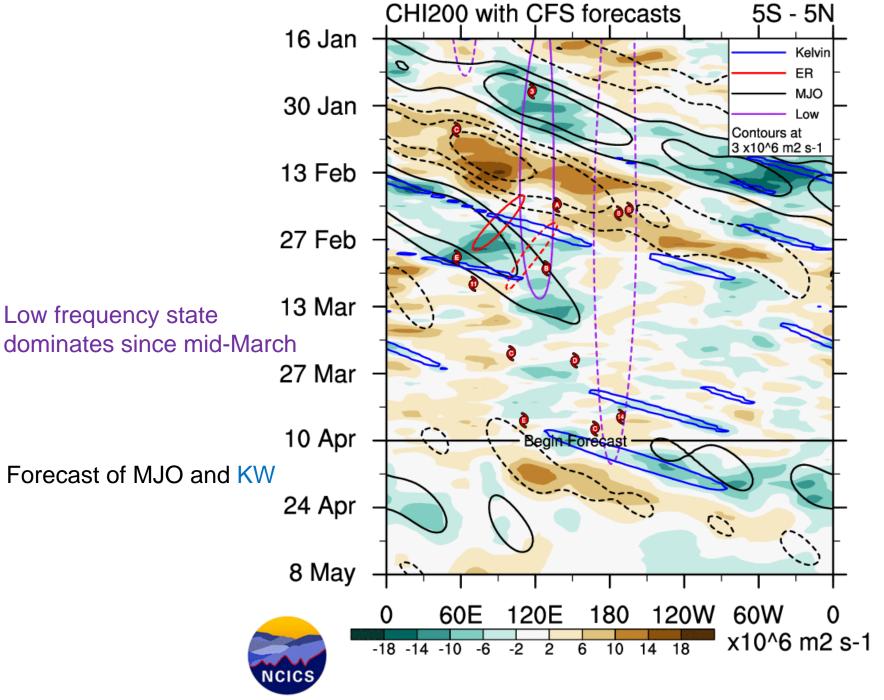




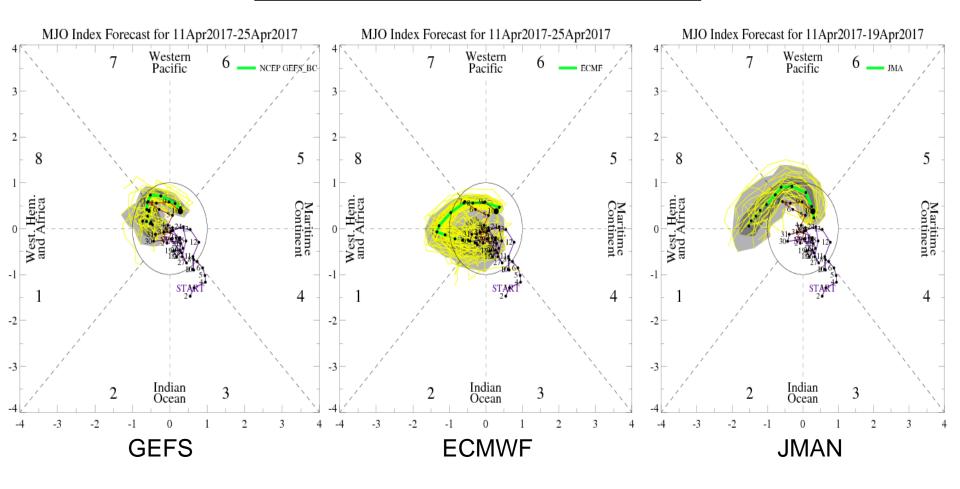








## MJO Observation/Forecast



Wheeler-Hendon based analyses of model forecasts indicate eastward propagation of a weak signal.

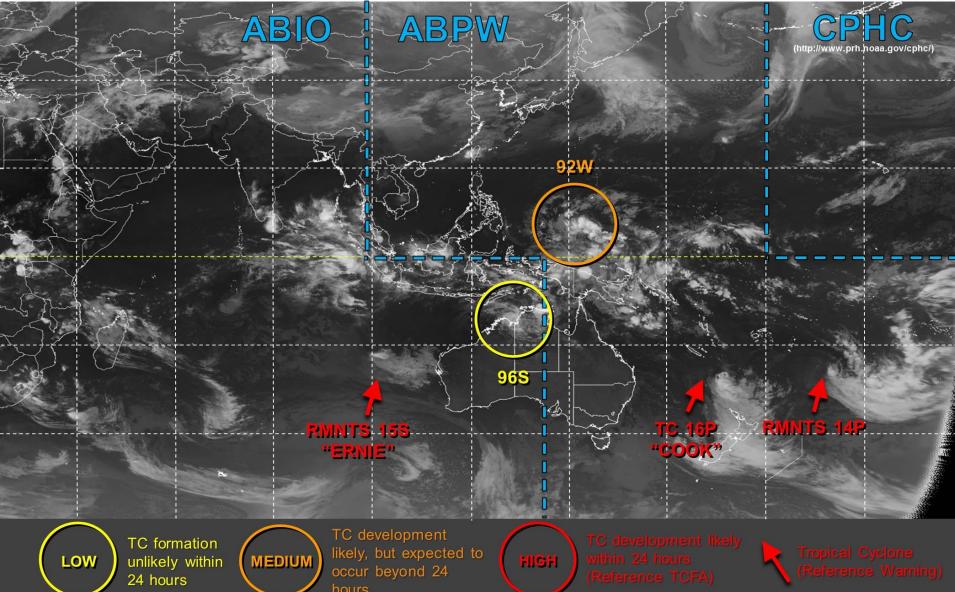
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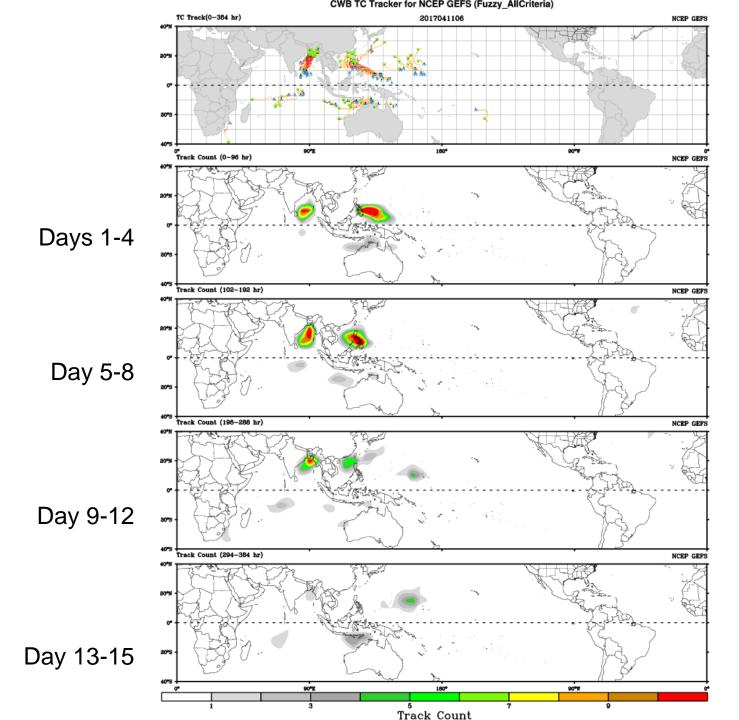
#### **Tropical Cyclone Development Potential**

**IMAGE TIME: 11/1700Z** 

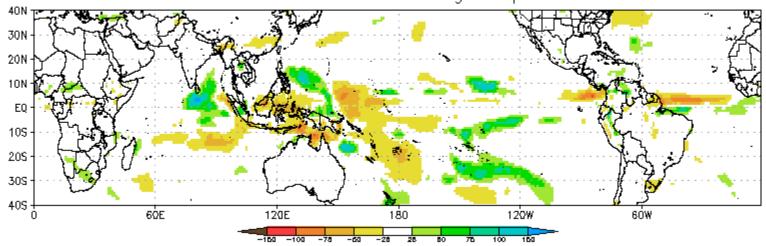




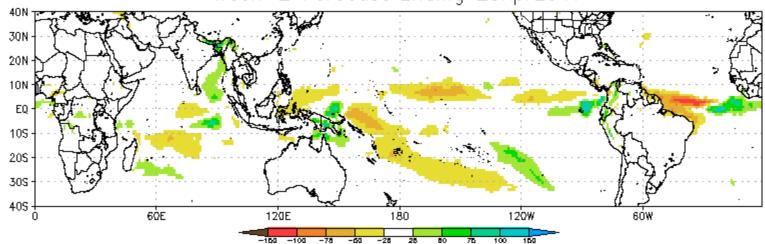




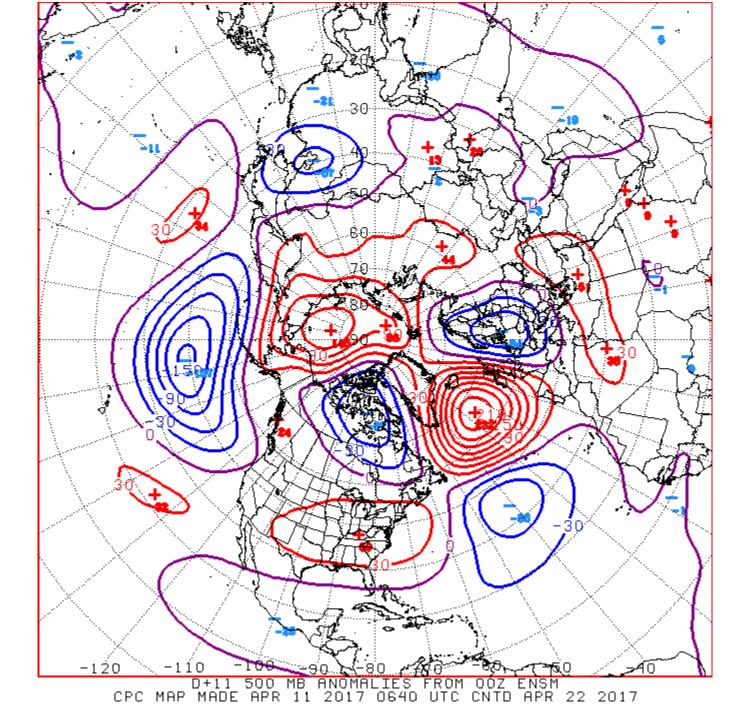
CFS Precipitation Anomalies (mm) Issued 10Apr2017 Week-1 Forecast Ending 18Apr2017



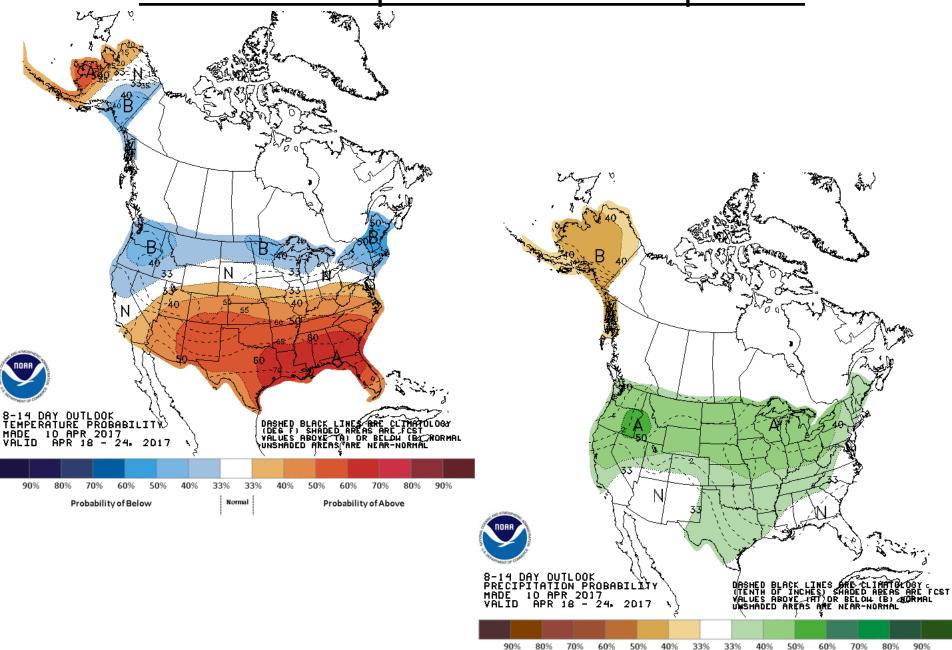
CFS Precipitation Anomalies (mm) Issued 10Apr2017 Week-2 Forecast Ending 25Apr2017



# Connections to U.S. Impacts



Week 2 - Temperature and Precipitation



Probability of Below

Normal

Probability of Above



#### Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Apr 19, 2017 - Apr 25, 2017



Confidence
High Moderate

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

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Produced: 04/11/2017

Forecaster: Pugh