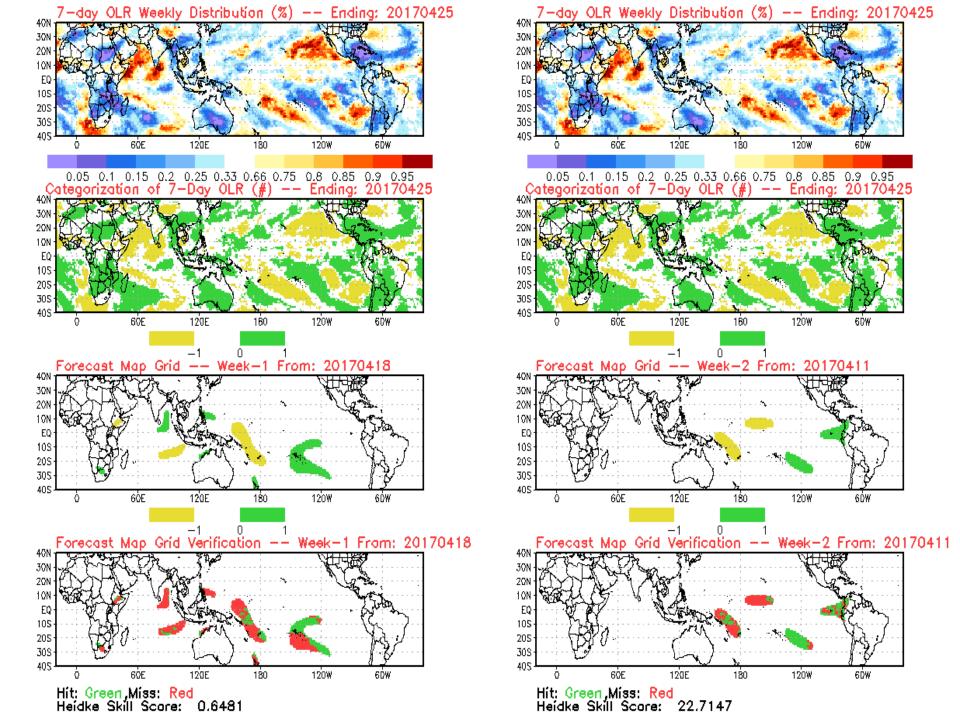
Global Tropics Hazards And Benefits Outlook 4/25/2017

Brad Pugh

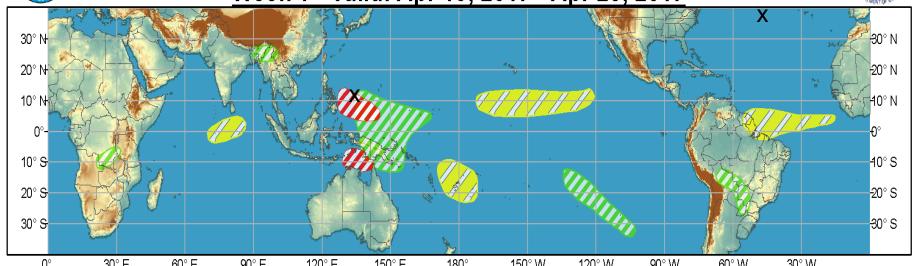
Outline

- 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

Week 1 - Valid: Apr 19, 2017 - Apr 25, 2017



Tropical Storm Arlene

- 1st named storm of the 2017 Atlantic season
- Formed at a relatively high latitude of 36 degrees N (800 mi west of Azores)
- Only the 2nd tropical cyclone to form over the Atlantic Basin during April

Tropical Depression 3W

Expected to remain weak as it recurves away from the Philippines

Synopsis of Climate Modes

ENSO:

- ENSO-neutral conditions are expected to continue through boreal Spring.
- Increasing chances of El Niño development by boreal late Summer/Fall.
- The next ENSO update will be released on 11 May 2017.

MJO and other subseasonal tropical variability:

- The MJO remained weak, with faster Kelvin Waves more dominant during April.
- Dynamical models indicate the continuation of a weak signal with a Kelvin Wave crossing the Western Hemisphere during Week-1.

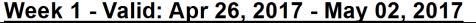
Extratropics:

- The extended range temperature and precipitation forecasts for the U.S. are not likely to be influenced by the MJO.
- Very large spread among the GFS and ECMWF ensemble members during Week-2.



Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: May 03, 2017 - May 09, 2017



Confidence Produced: 04/25/2017

Forecaster: Pugh

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.



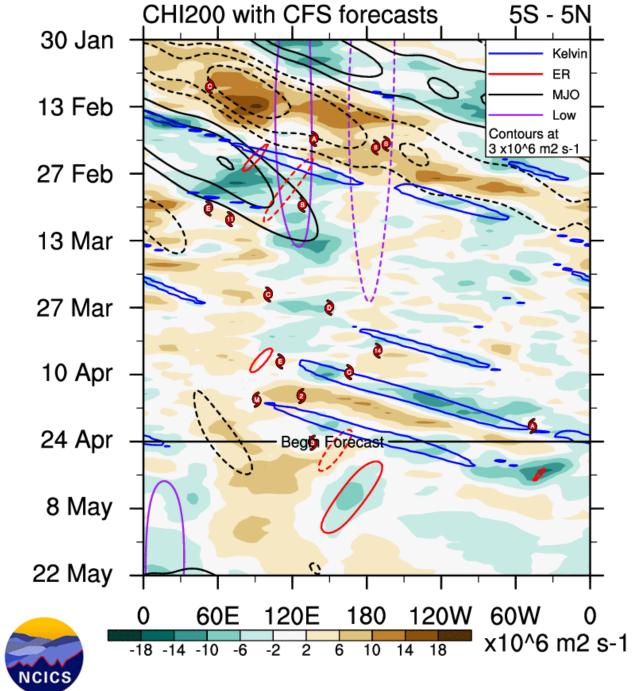






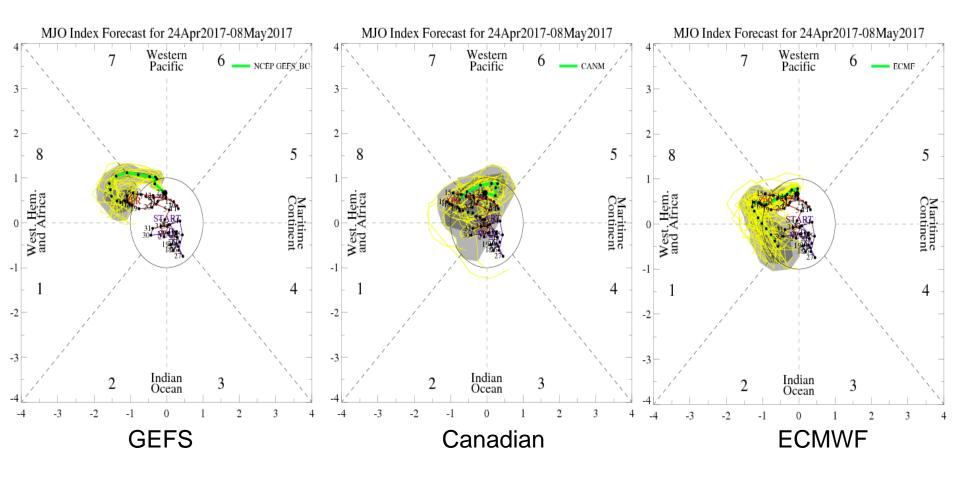






Multiple atmospheric KWs since late March

MJO Observation/Forecast

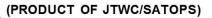


Wheeler-Hendon based analyses of model forecasts indicate an increase in amplitude during Week-1.

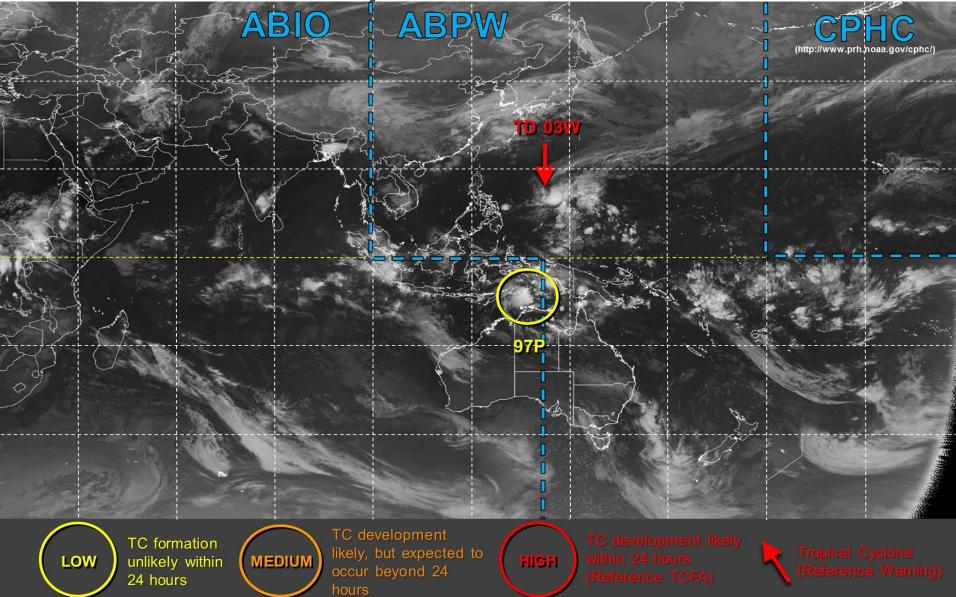
PEARL MARBOR HAMAS

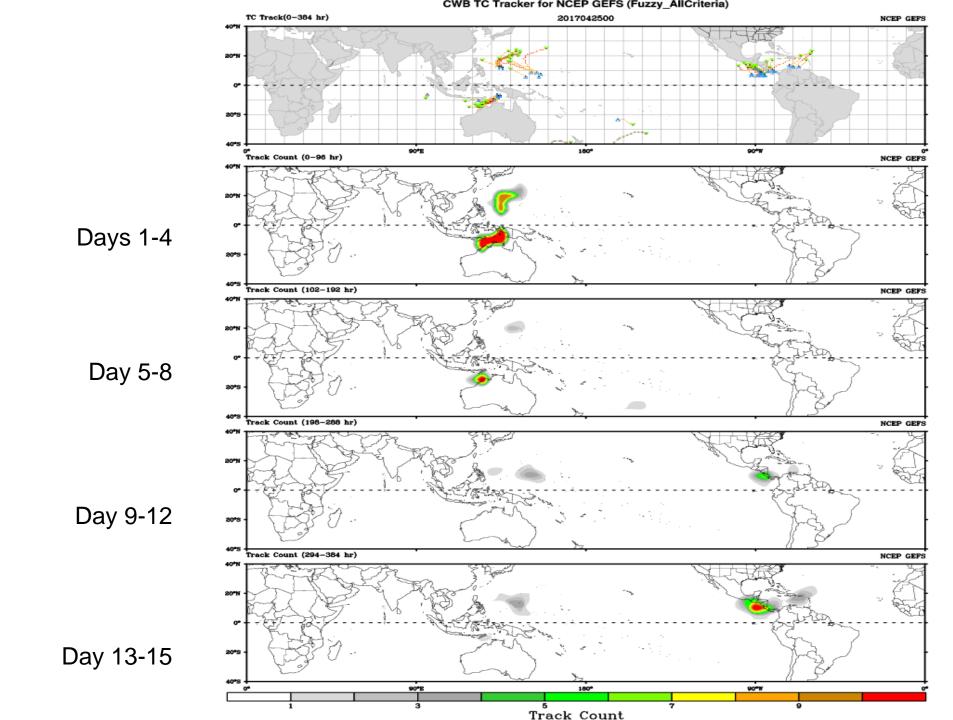
Tropical Cyclone Development Potential

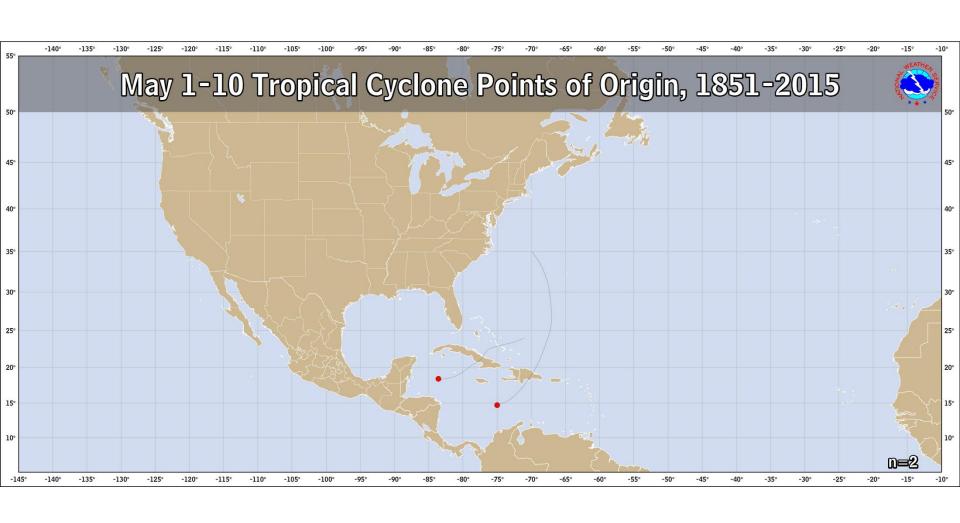
IMAGE TIME: 25/1700Z

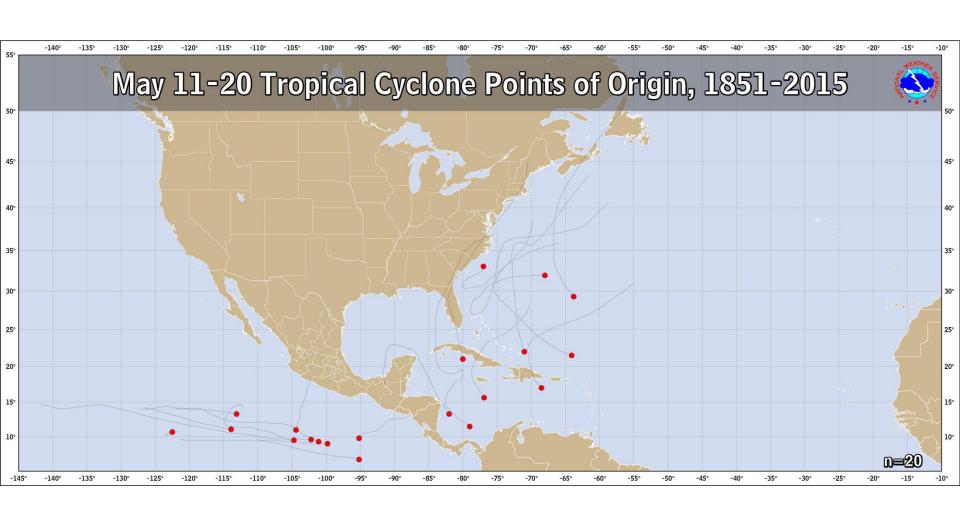


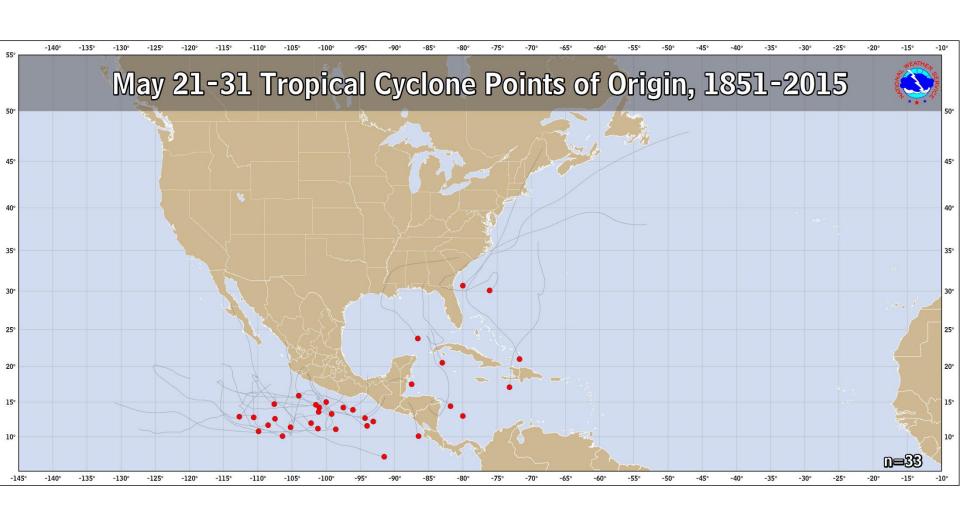












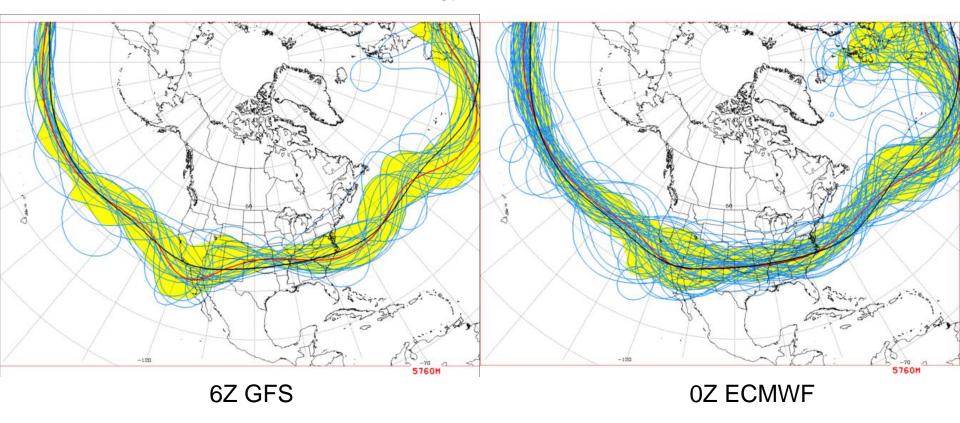
Connections to U.S. Impacts

Ensemble Members at 500-hpa

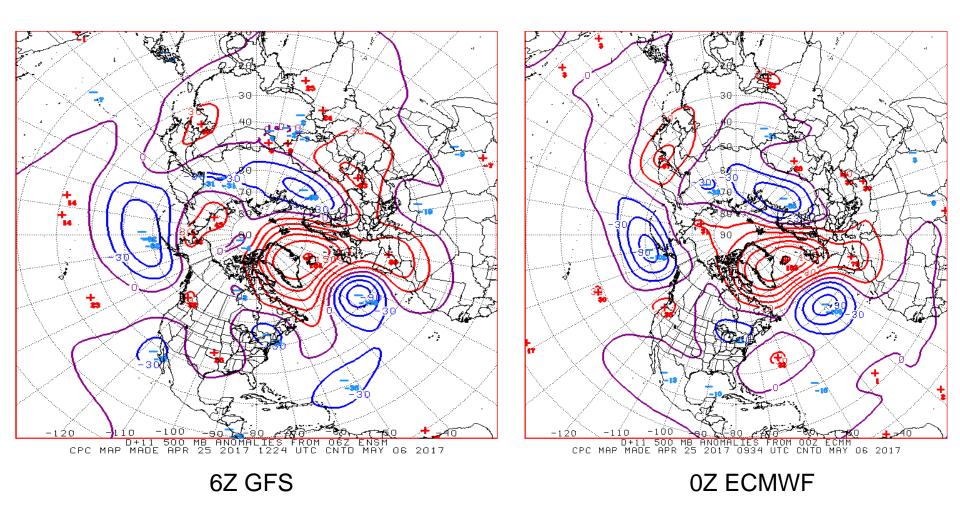
Blue: Individual Ensemble Members

Red: Ensemble Mean

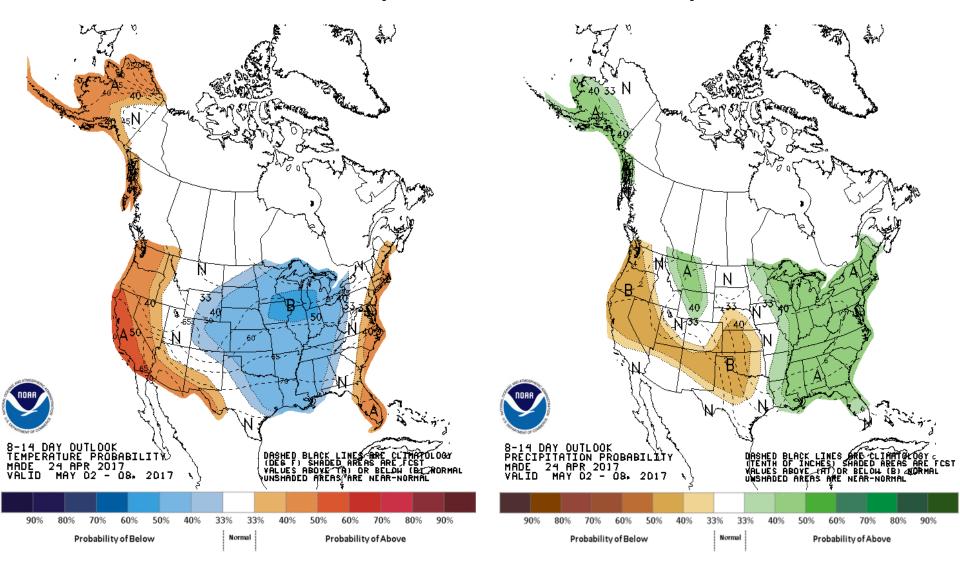
Black: Climatology



500-hpa Anomalies: Ensemble Means



Week 2 - Temperature and Precipitation





Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: May 03, 2017 - May 09, 2017



Confidence Produced: 04/25/2017

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.

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.











