Outline

1. Review of Recent Conditions
2. Synopsis of Climate Modes
3. GTH Outlook and Forecast Discussion
4. Connections to U.S. Impacts
No new tropical cyclogenesis... however...
If the disturbance attains TS intensity, it would be named Felicia.
Synopsis of Climate Modes

**ENSO:**
- Current: [El Niño Advisory](#)
- Outlook: There is a greater than 90% chance that El Niño will continue through Northern Hemisphere winter 2015-16, and around an 80% chance it will last into early spring 2016.

**MJO and other subseasonal tropical variability:**
- The MJO signal remained coherent in the upper-levels, but the amplitude of the MJO indices decreased due to increasing destructive interference with the El Niño signal.
- Dynamical model MJO index forecasts are all over the place – with some (GEFS) depicting increased amplitude over the Indian Ocean, others keeping more signal over the East Pacific, and others rapidly returning the signal to the West Pacific.

**Extratropics:**
- Due to the weakening MJO signal, the impacts on the extratropics are difficult to determine.
- ENSO will likely continue to be the dominant driver of tropical variability during the next several weeks.
- If continued eastward propagation of the subseasonal signal is realized, vertical shear over the tropical Atlantic may be reduced.
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center

Week 1 - Valid: Jul 22, 2015 - Jul 28, 2015

Week 2 - Valid: Jul 29, 2015 - Aug 04, 2015

Confidence

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.

Produced: 07/21/2015
Forecaster: Allgood

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

• Wave-1 structure
• Robust eastward propagation
• Note weakening enhanced anomaly field over Atlantic/Africa, and lingering strong enhancement over the Epac.
NOTE: Forecasts are several days old due to technical difficulties.

GFS: Increasing amplitude over west-central Indian Ocean.
UKMET: Signal returns to the Eastern Pacific.
CMC: Big spread among ensemble members, some depict an IO event, others bring the signal quickly to the West Pacific by Week-2.
Average Conditions when the MJO is present

CAVEAT: These panels are representative of robust MJO events.
Enhanced Pacific convection due to El Niño (green box)

MJO event (dashed lines)
July Tropical Storm Formation by MJO phase

Phase 1 (144 days) 37 storms
Phase 2 (74 days) 20 storms
Phase 3 (49 days) 17 storms
Phase 4 (40 days) 14 storms
Phase 5 (63 days) 11 storms
Phase 6 (60 days) 23 storms
Phase 7 (67 days) 21 storms
Phase 8 (61 days) 24 storms
Null (480 days) 130 storms
NCEP Ensemble-based Probability (%) of TC genesis for forecasts during the 120–240h period from initial time = 2015072100
Connections to U.S. Impacts
Lagged composite from MJO
5-day intervals
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center

Week 1 - Valid: Jul 22, 2015 - Jul 28, 2015

Week 2 - Valid: Jul 29, 2015 - Aug 04, 2015

Confidence
High Moderate

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.

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