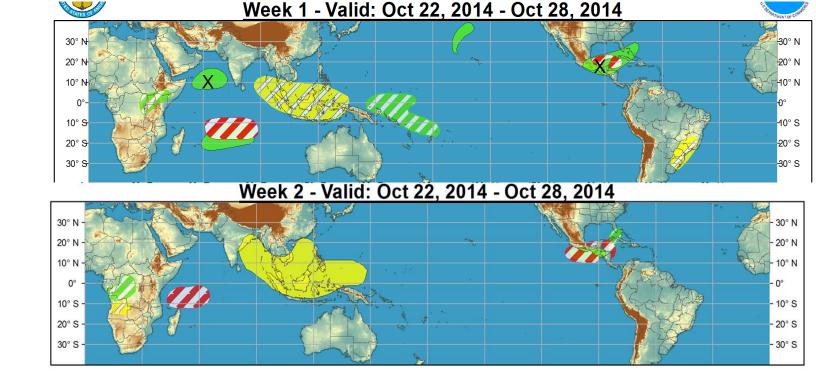
Global Tropics Hazards And Benefits Outlook October 28, 2014

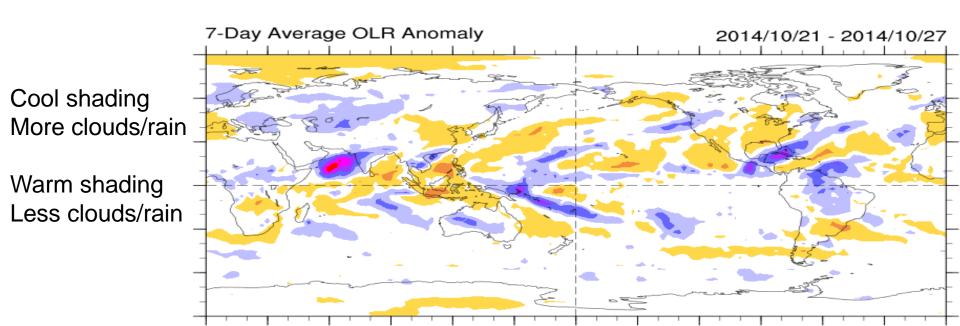
Adam Allgood

<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







Synopsis of Climate Modes

ENSO:

• El Niño is favored to begin in the next 1-2 months and last into the Northern Hemisphere spring 2015.

MJO and other subseasonal tropical variability:

- Although there is evidence of an eastward propagating envelope (currently entering/over the Indian Ocean), the MJO remains largely incoherent as competing signals interfere with the overall global tropical convective pattern.
- Dynamical model MJO index forecasts provide a large range of conflicting MJO index solutions (CFS/GFS favor I.O. convection, ECMWF favors west Pacific convection) due to difficulty resolving the evolution of the competing signals.

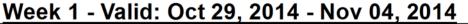
Extratropics:

• The extended range forecast for the U.S. favors above-median temperatures for much of the CONUS (particularly the central US), with odds tilted towards above-median precipitation across the south-central U.S. and the East. Above-average rainfall is also favored for the Northwest. This solution is reasonably consistent with any potential MJO signal coming out over the Indian Ocean.



Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Nov 05, 2014 - Nov 11, 2014



Produced: 10/28/2014 Confidence High Moderate 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.

Above-normal temperatures 7-day mean temperatures in the upper third of the historical range.

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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.









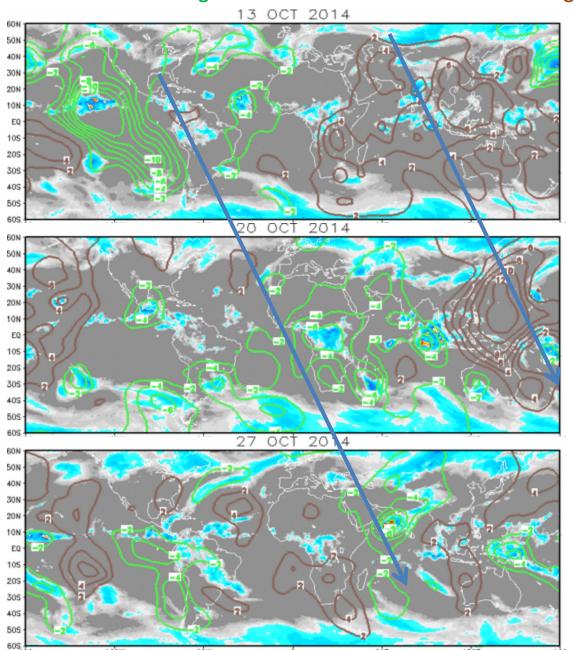




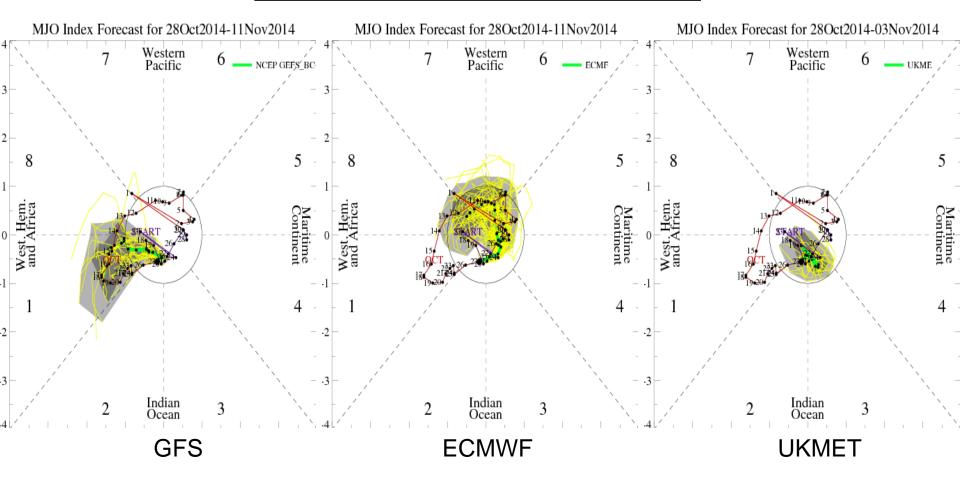


IR Satellite & 200-hpa Velocity Potential Anomalies

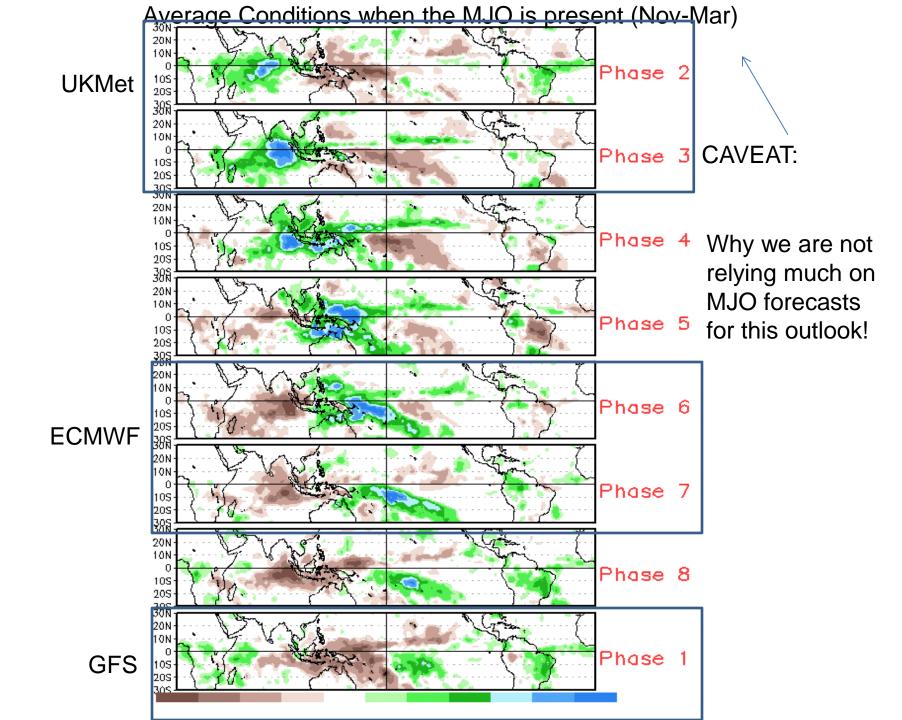
Green: Enhanced Divergence Brown: Enhanced Convergence



MJO Observation/Forecast

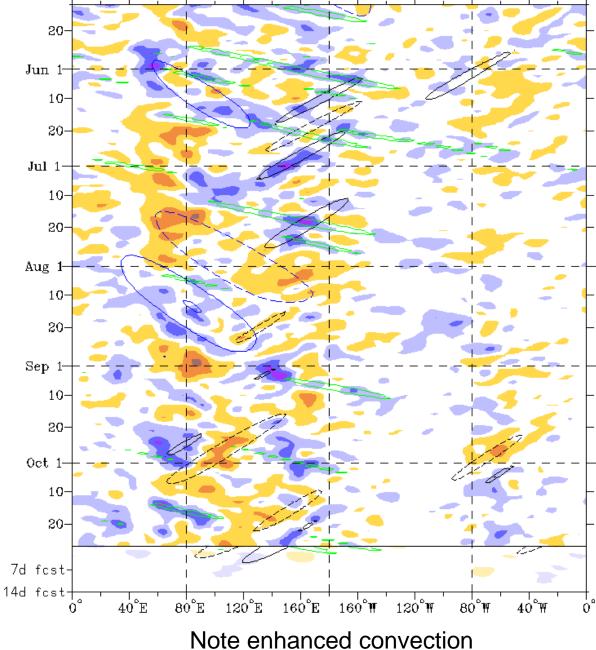


Pick your quadrant!

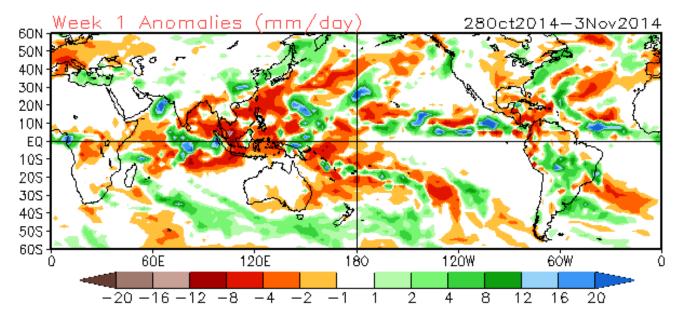


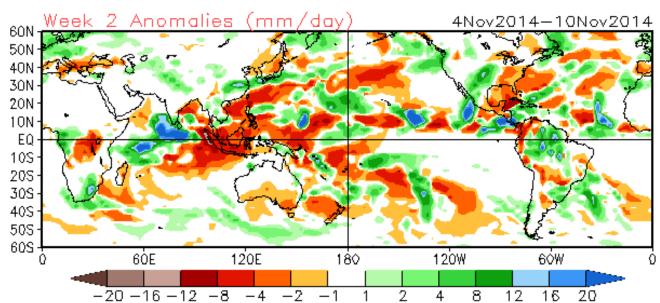
Note competing signals:

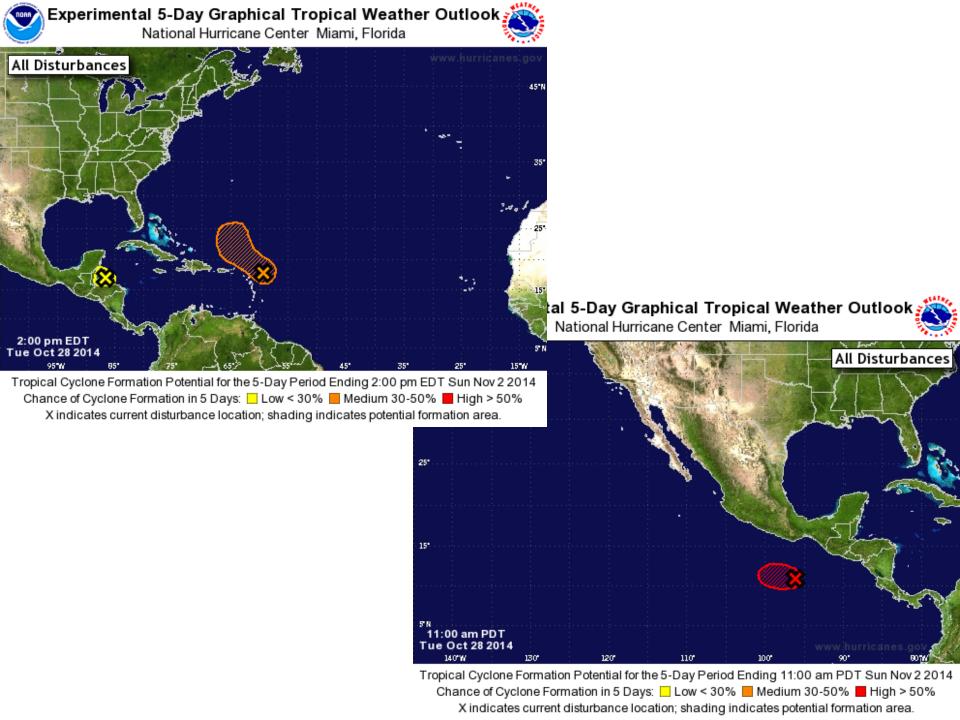
- Eastward moving signal over the Indian Ocean (weak evidence of a slower moving envelope)
- Westward moving features over the W-Pac/Maritime Continent

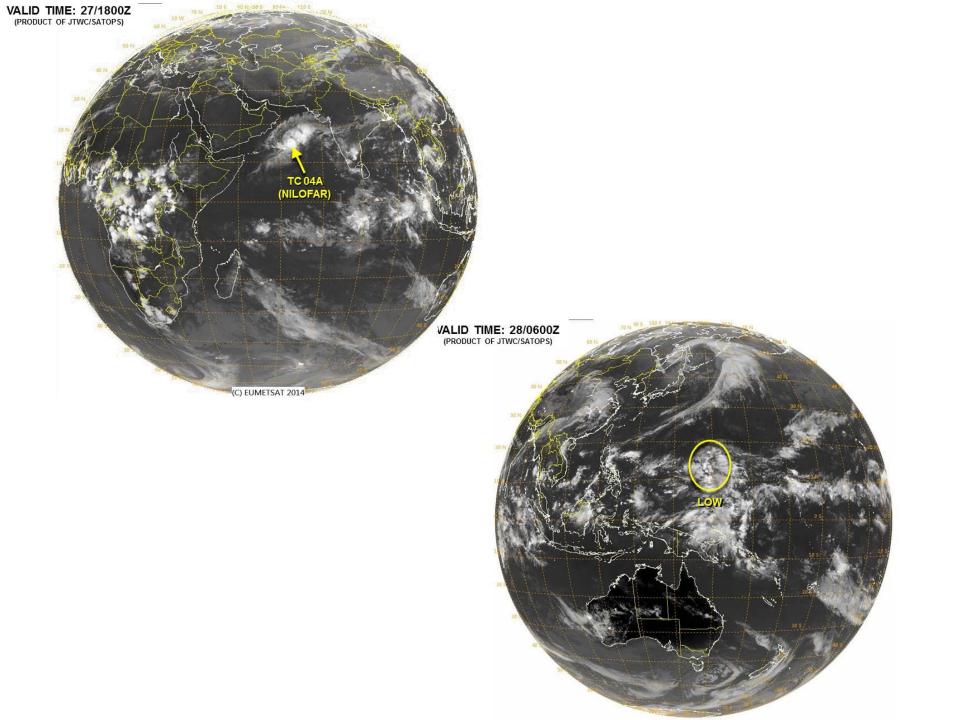


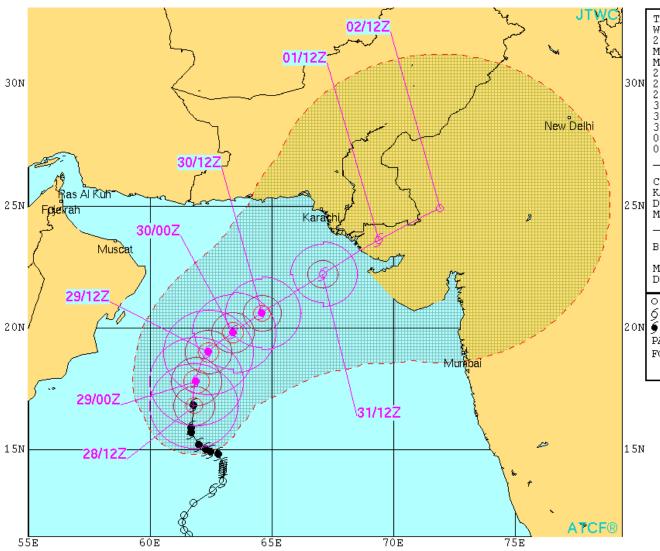
Note enhanced convection returning over the E-Pac.











TROPICAL CYCLONE 04A (NILOFAR) WARNING #13 WTIO31 PGTW 281500 281200Z POSIT: NEAR 16.8N 61.8E MOVING 005 DEGREES TRUE AT 09 KNOTS MAXIMUM SIGNIFICANT WAVE HEIGHT: 30 FEET 28/12Z, WINDS 115 KTS, GUSTS TO 140 KTS 29/00Z, WINDS 125 KTS, GUSTS TO 150 KTS 29/12Z, WINDS 115 KTS, GUSTS TO 140 KTS 30/00Z, WINDS 105 KTS, GUSTS TO 130 KTS 30/12Z, WINDS 085 KTS, GUSTS TO 105 KTS 31/12Z, WINDS 055 KTS, GUSTS TO 070 KTS 01/12Z, WINDS 040 KTS, GUSTS TO 050 KTS 02/12Z, WINDS 030 KTS, GUSTS TO 040 KTS CPA TO: DTG KARACHI 131 01/01Z 29/05Z DUQM 259 MASIRAH ISLAND 218 29/10Z BEARING AND DISTANCE DIR DIST TAU (MM) (HRS) MASIRAH_ISLAND 112 220 24 MQUG 097 269 24

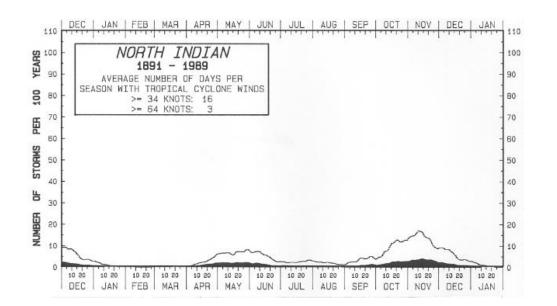
O LESS THAN 34 KNOTS

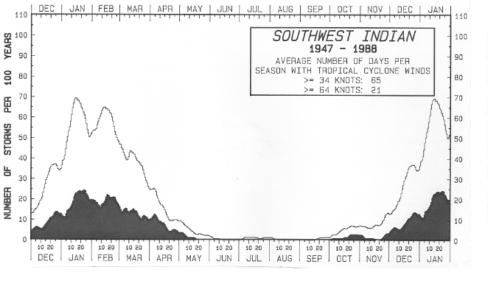
634-63 KNOTS

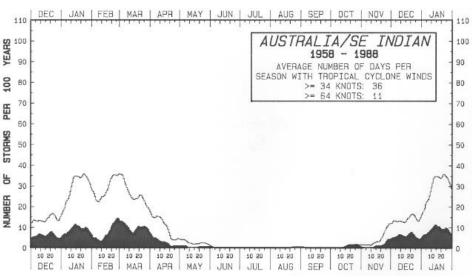
20N ∮ MORE THAN 63 KNOTS

PAST 6 HOURLY CYCLONE POSITS IN BLACK FORECAST CYCLONE POSITS IN COLOR









Connections to U.S. Impacts

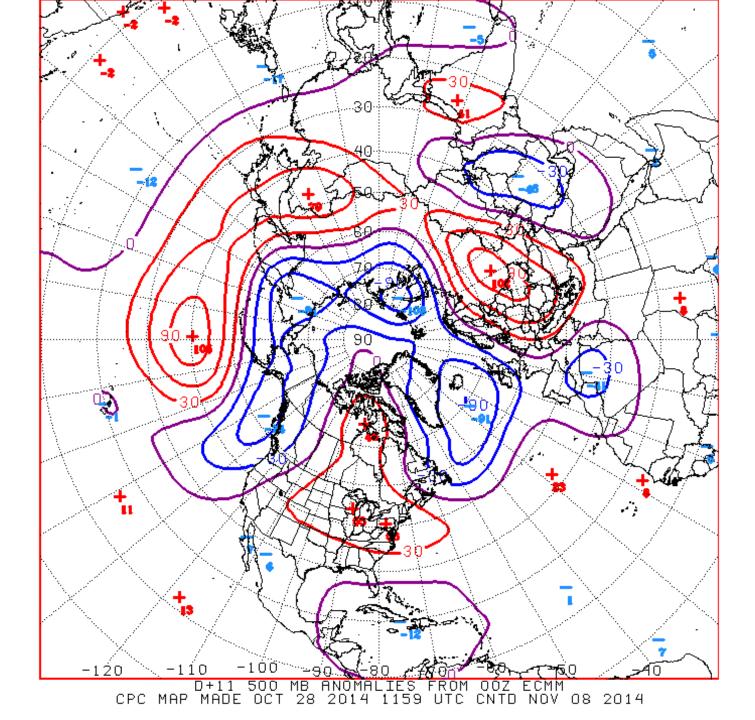
120W

6ÓW

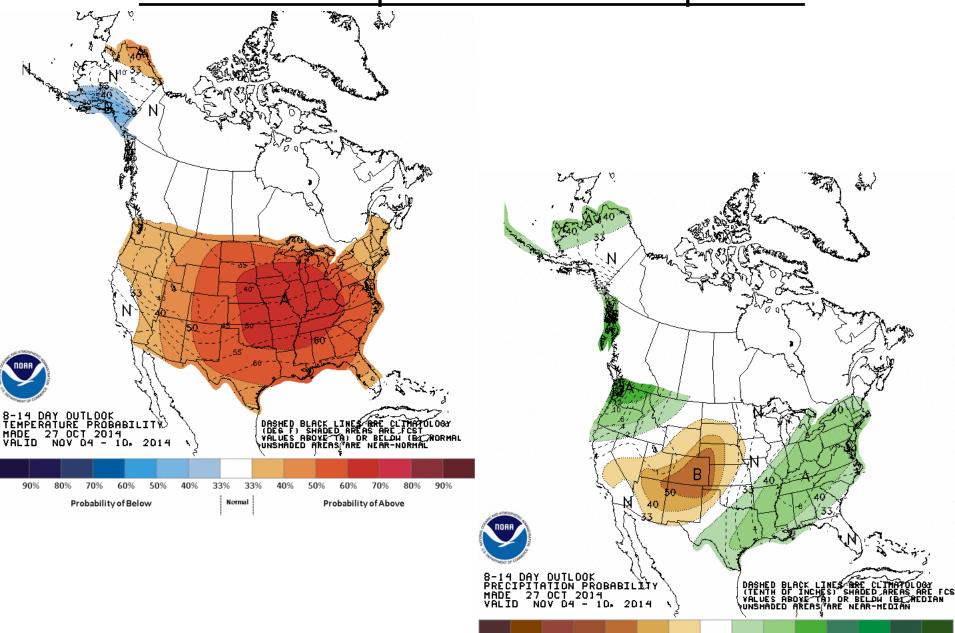
180

60E

120E



Week 2 - Temperature and Precipitation



70%

Probability of Below

33%

Normal

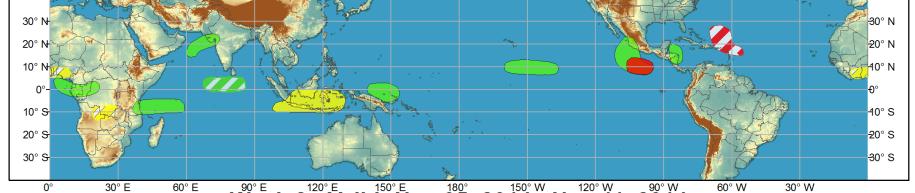
Probability of Above



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