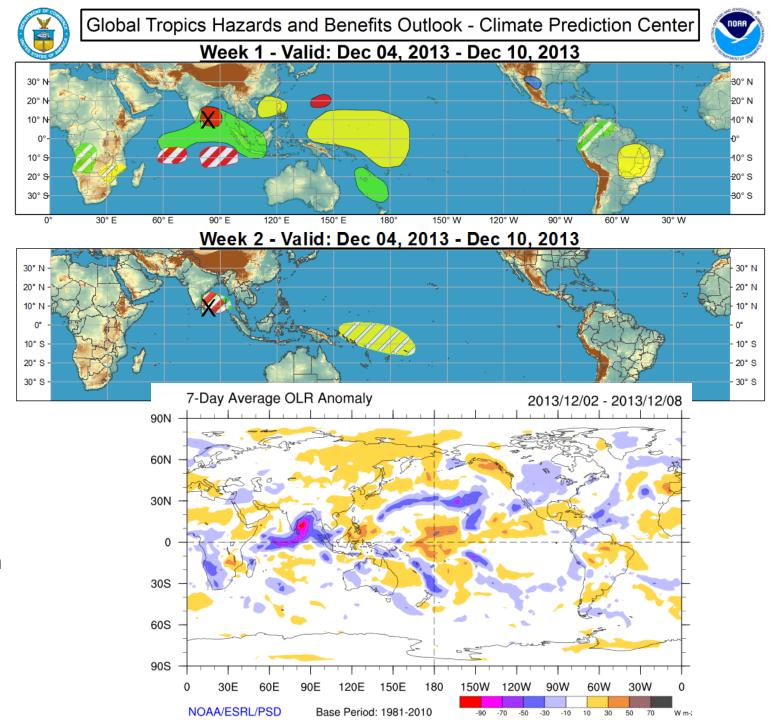
Global Tropics Hazards and Benefits Outlook <u>December 10, 2013</u>

Jon Gottschalck

Outline

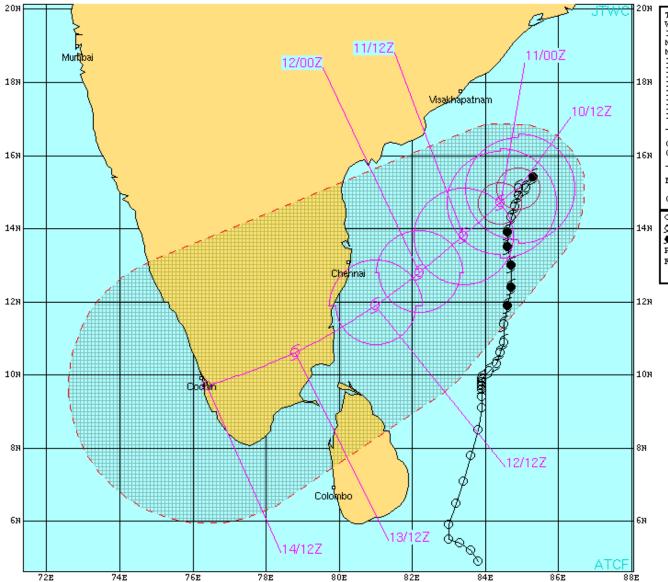
- 1. Brief review of Recent Conditions
- 2. Synopsis of Climate Modes
- 3. GTH Outlook and Forecast Discussion
- 4. Connections to U.S. Impacts

Outlook Review



Cool shading
More clouds/rain

Warm shading Less clouds/rain



TROPICAL CYCLONE 06B (MADI) WARNING #19 WTI031 PGTW 101500 1012002 POSIT: NEAR 15.1N 84.9E MOVING 230 DEGREES TRUE AT 05 KNOTS MAXIMUM SIGNIFICANT WAVE HEIGHT: 25 FEET 10/12z, WINDS 060 KTS, GUSTS TO 075 KTS 11/00z, WINDS 055 KTS, GUSTS TO 070 KTS 11/12Z, WINDS 050 KTS, GUSTS TO 065 KTS 12/002, WINDS 045 KTS, GUSTS TO 055 KTS 12/122, WINDS 040 KTS, GUSTS TO 050 KTS 13/122, WINDS 035 KTS, GUSTS TO 045 KTS 14/122, WINDS 020 KTS, GUSTS TO 030 KTS CPA TO: DTG 82 12/112 CHENNAI BEARING AND DISTANCE DIR DIST TAU (NM) (HRS) 186 24 077 CHENNAI

∮ MORE THAN 63 KNOTS

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



Synopsis of Climate Modes

ENSO:

• ENSO-neutral is expected to continue into the Northern Hemisphere summer 2014.

MJO and other subseasonal tropical variability:

- The MJO remains generally weak.
- Dynamical model MJO index forecasts do not indicate a strong MJO signal over the next 1-2 weeks, although some models show some minor eastward propagation of a weak signal to the Maritime continent over the period.
- Statistical forecasts show a slow propagation of a weak MJO signal during the period, consistent with some dynamical model forecasts.
- Other types of subseasonal tropical variability remain quite active.

Extratropics:

- Given the high uncertainty in the pattern of anomalous tropical convection, impacts to the U.S. are unclear and uncertain.
- AO favored to be strongly positive over next 1-2 weeks.



Global Tropics Hazards and Benefits Outlook - Climate Prediction Center











Confidence Produced: 12/10/2013

High Moderate Forecaster: Gottschalck

Tropical Cyclone FormationDevelopment of a tropical cyclone that eventually reaches tropical storm/cyclone 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. The product targets broad scale conditions integrated over a 7-day period for US interests only. Consult your local responsible forecast agency.





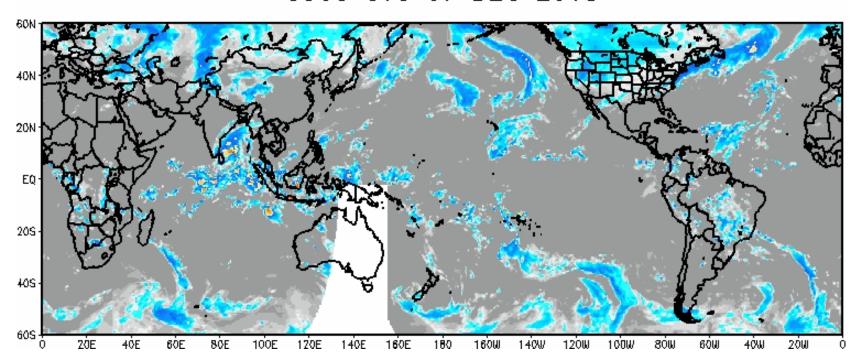






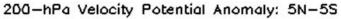


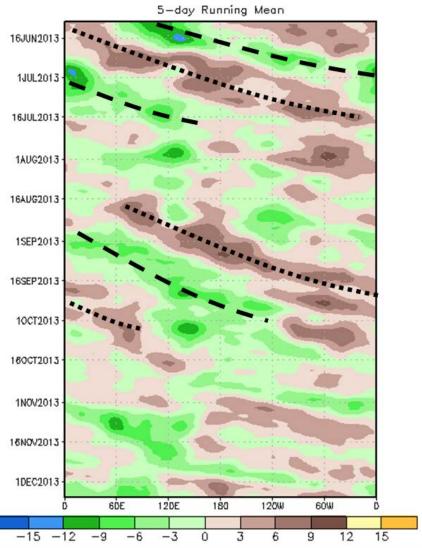
IR Temperatures 0900 UTC 07 DEC 2013

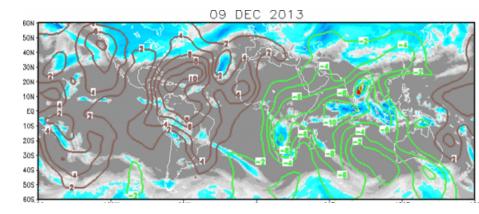


200-hpa Velocity Potential Anomalies

Green: Enhanced Divergence Brown: Enhanced Convergence

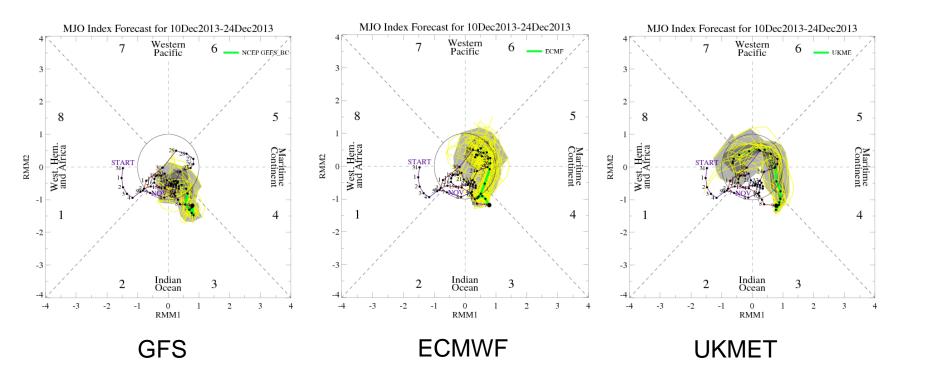


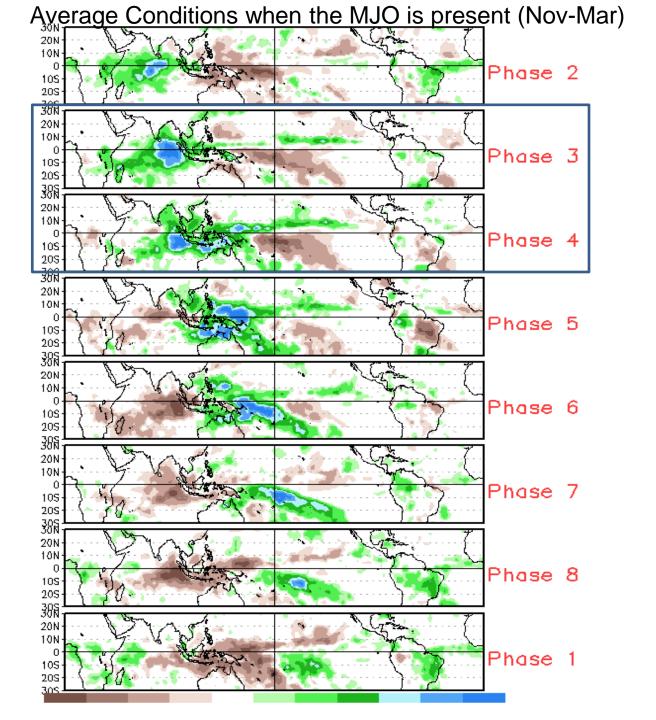




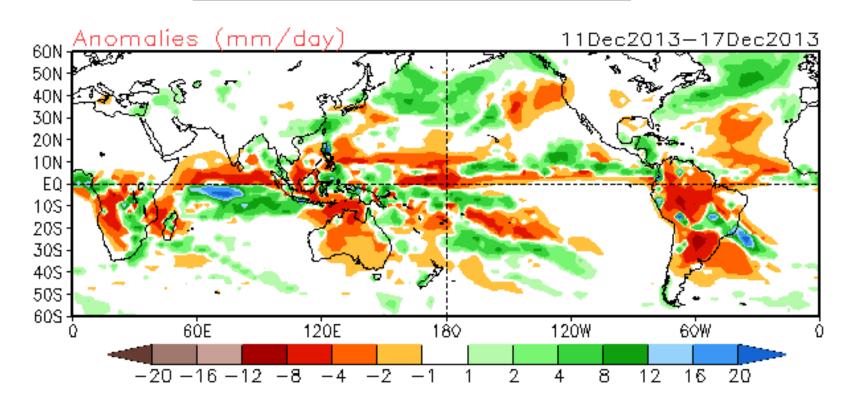
Longitude

MJO Index Model Forecasts

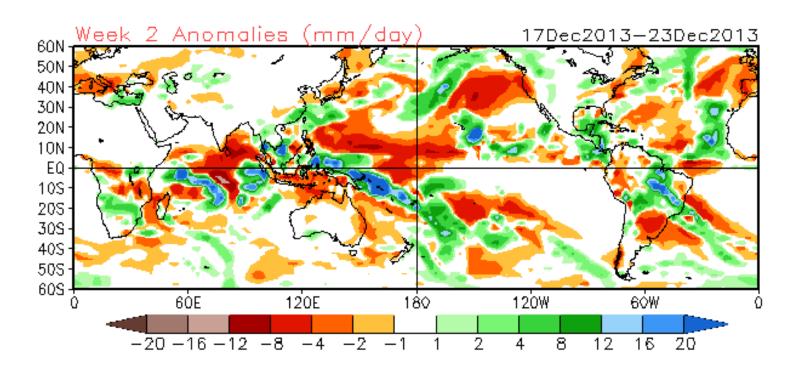


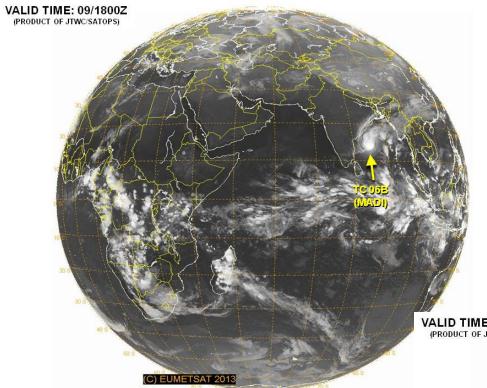


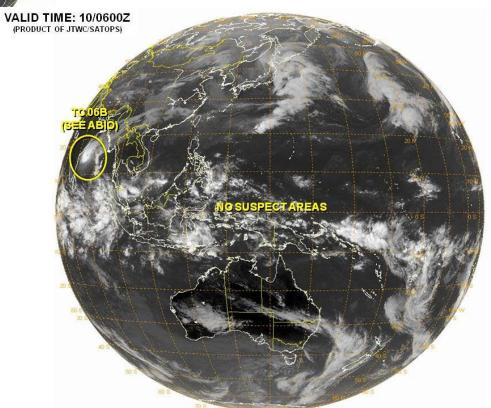
GFS – Week-1 Precipitation Anomalies

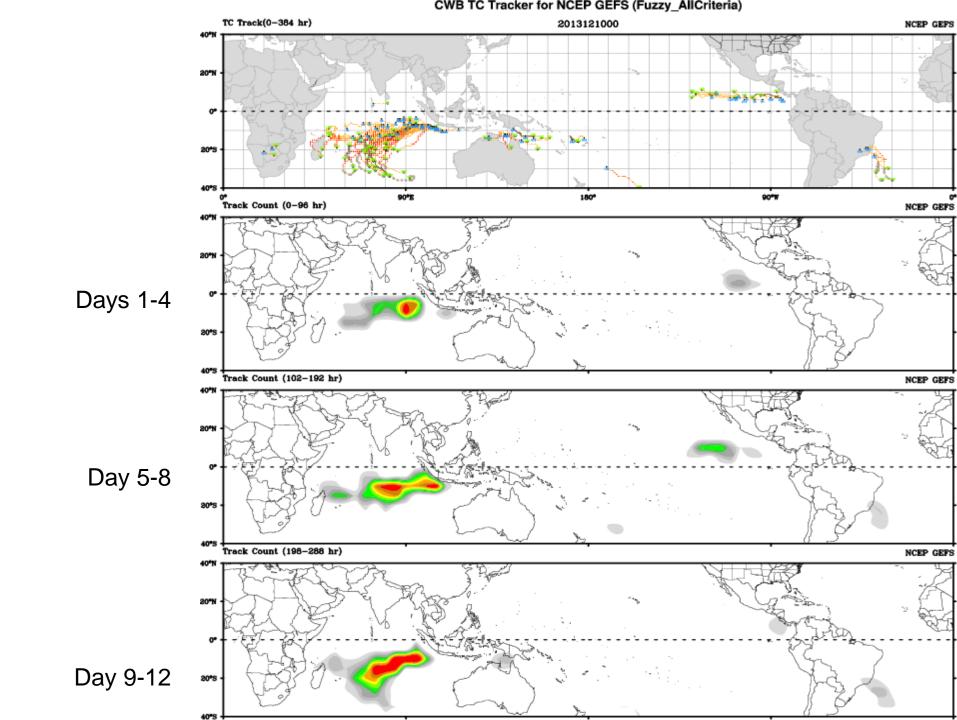


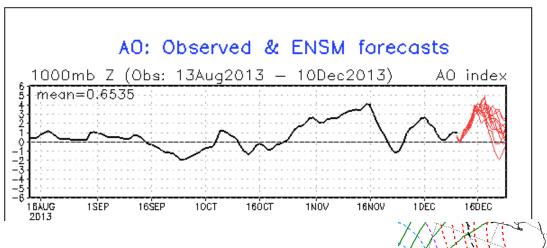
CFS – Precipitation Anomalies

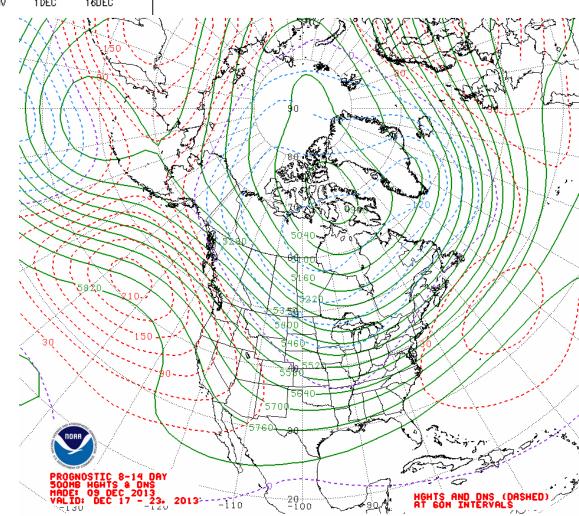


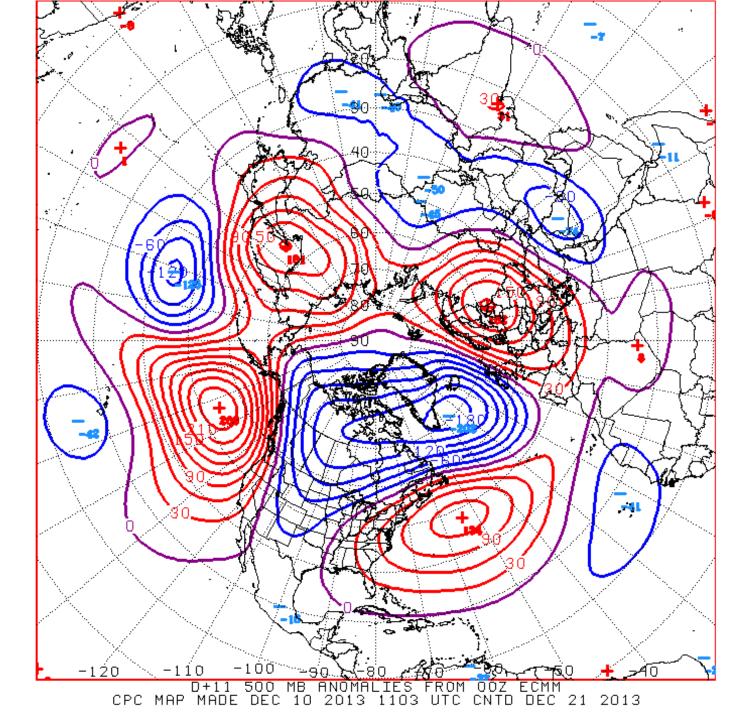


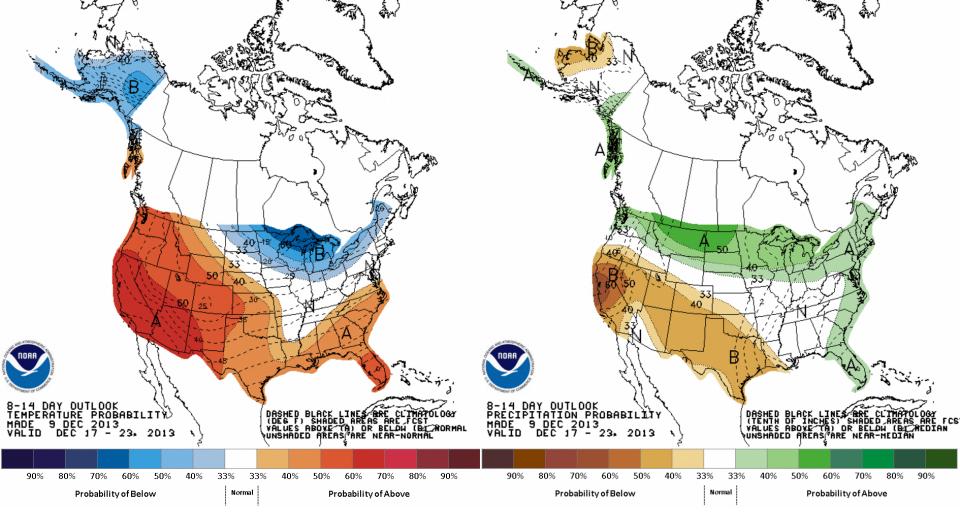














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