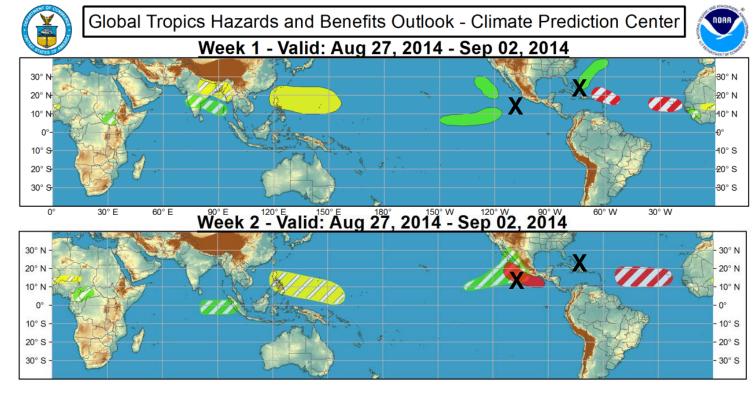
Global Tropics Hazards And Benefits Outlook September 2, 2014

Stephen Baxter

Outline

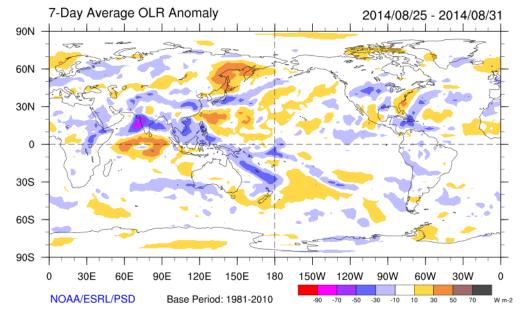
- 1. Review of Recent Conditions
- 2. Synopsis of Climate Modes
- 3. GTH Outlook and Forecast Discussion
- 4. Connections to U.S. Impacts

Outlook Review



Cool shading More clouds/rain

Warm shading Less clouds/rain



Synopsis of Climate Modes

ENSO:

- Current:ENSO-neutral
- Outlook: The chance of El Niño is about 65% during the NH fall and early winter.

MJO and other subseasonal tropical variability:

- The MJO remained fairly weak with both the CPC and RMM indices not indicating a robust MJO. However, there is some evidence of a more organized, eastward-propagating signal of late, with the enhanced phase currently over the northeastern IO and Maritime Continent.
- Dynamical model MJO index forecasts generally support continued eastward propagation but a weak signal (GFS is still an outlier).
- Therefore, a weak MJO is expected to impact the global tropics, along with Rossby waves and atmospheric Kelvin waves.

Extratropics:

• There seems to be little in the way extratropical teleconnections from the observed pattern of tropical convection. Though there is some organization in the pattern of tropical convection, the midlatitudes continue to be impacted more by regionally-varying short wavelength, high-amplitude waves.



Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Sep 10, 2014 - Sep 16, 2014



Produced: 09/02/2014 Confidence High Moderate Forecaster: Baxter

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.







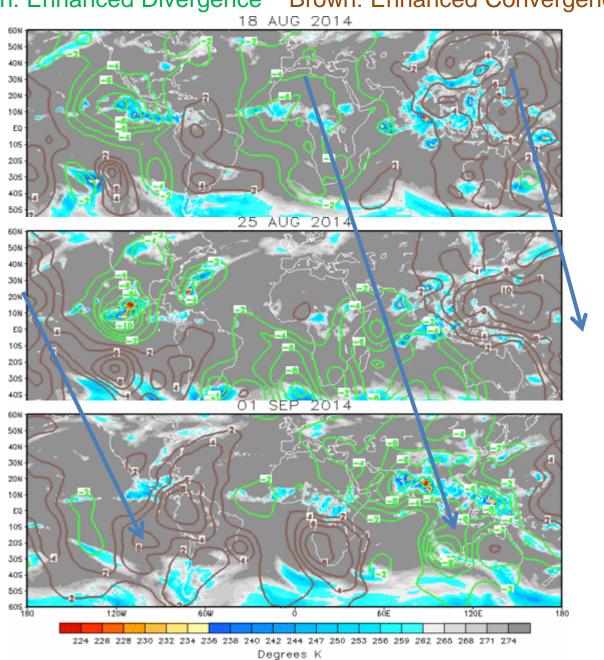




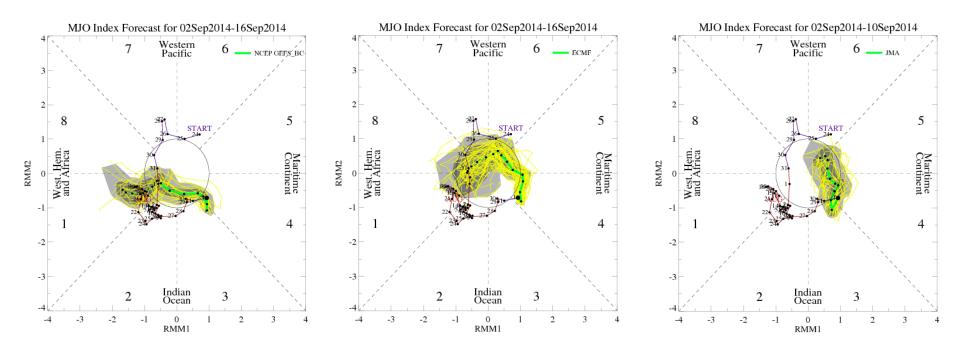


IR Satellite & 200-hpa Velocity Potential Anomalies

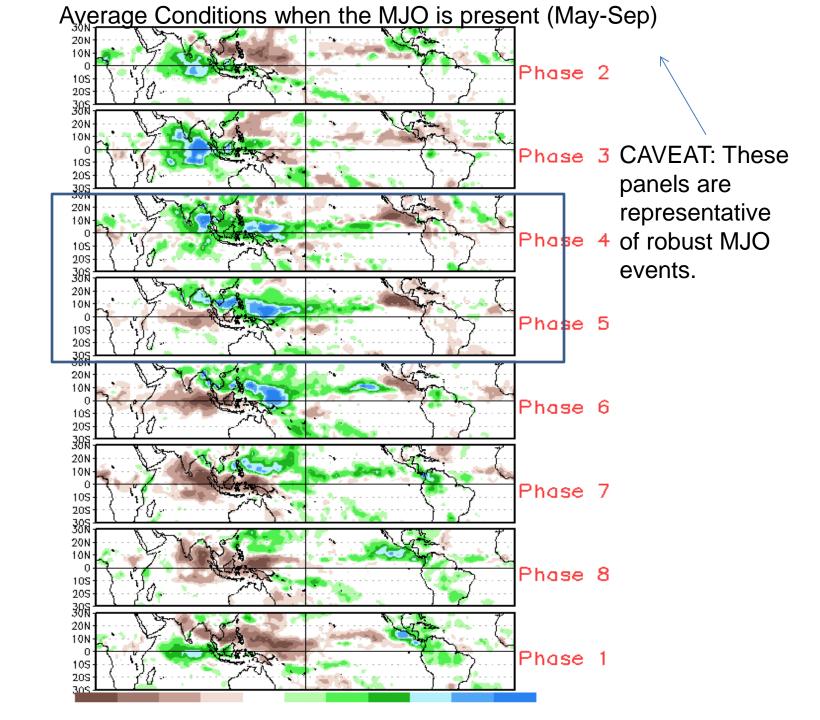
Green: Enhanced Divergence Brown: Enhanced Convergence



MJO Observation/Forecast



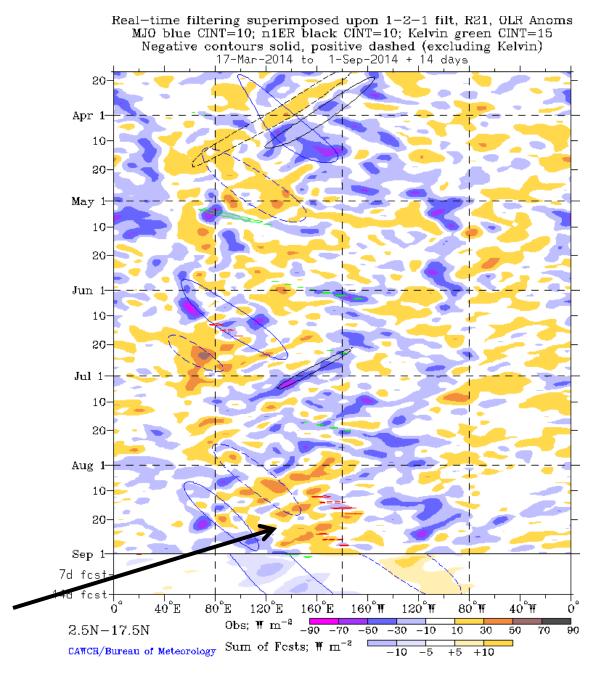
GFS ECMWF JMA

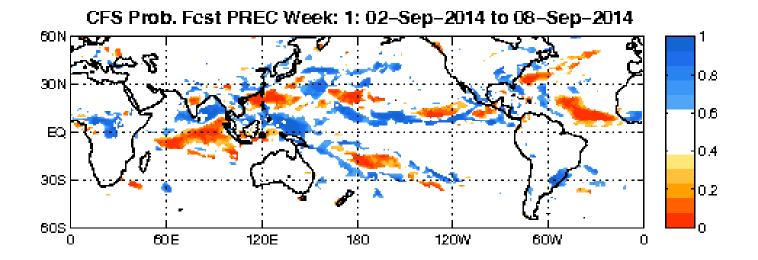


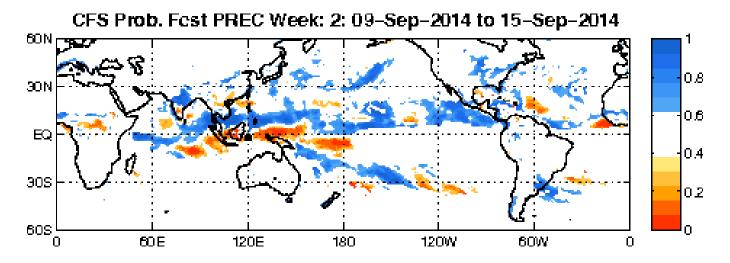
Weak, active phase of the MJO forecast to impact Maritime Continent and West Pacific.

Evolving ENSO also contributing.

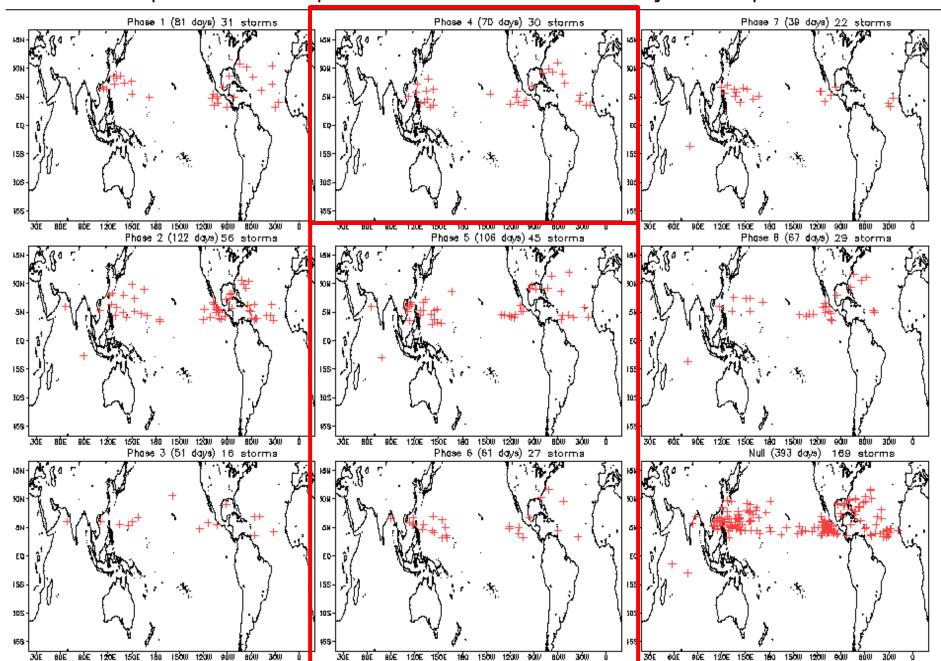
Equatorial Rossby Waves not as impactful as in previous weeks.







September Tropical Storm Formation by MJO phase

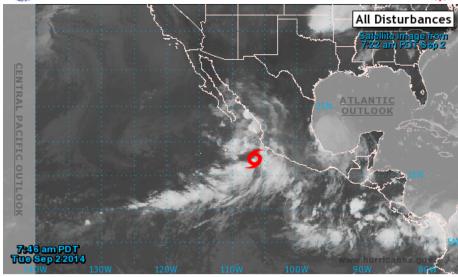




2-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida





Tropical or Sub-Tropical Cyclone: O Depression 5 Storm 5 Hurricane ⊗ Post-Tropical Cyclone

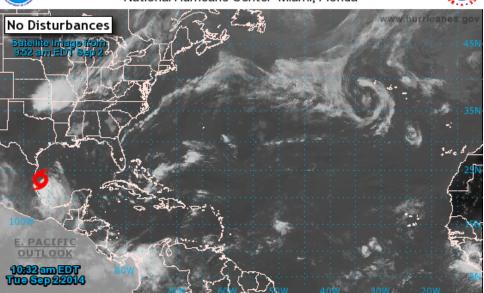
X Remnants



2-Day Graphical Tropical Weather Outlook

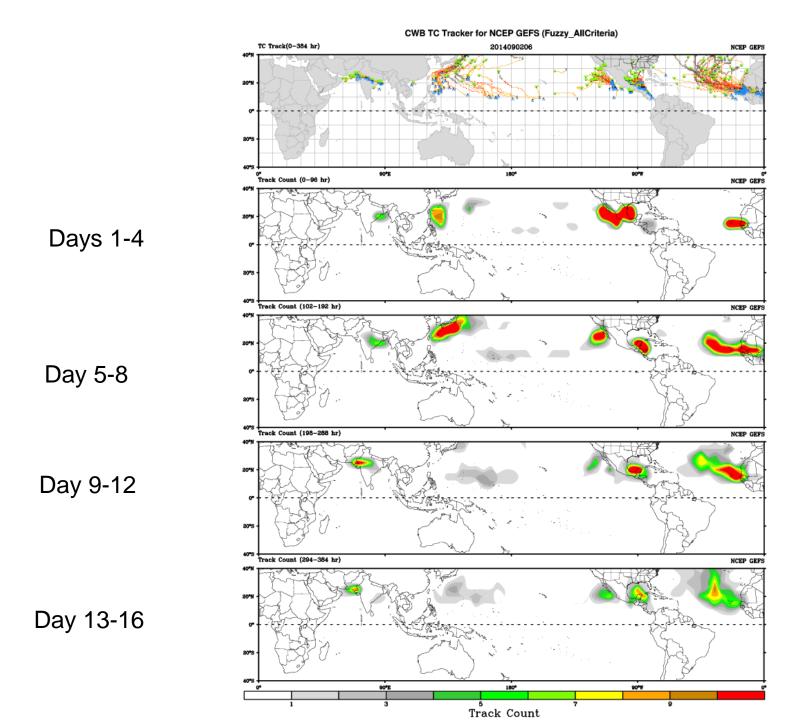
National Hurricane Center Miami, Florida



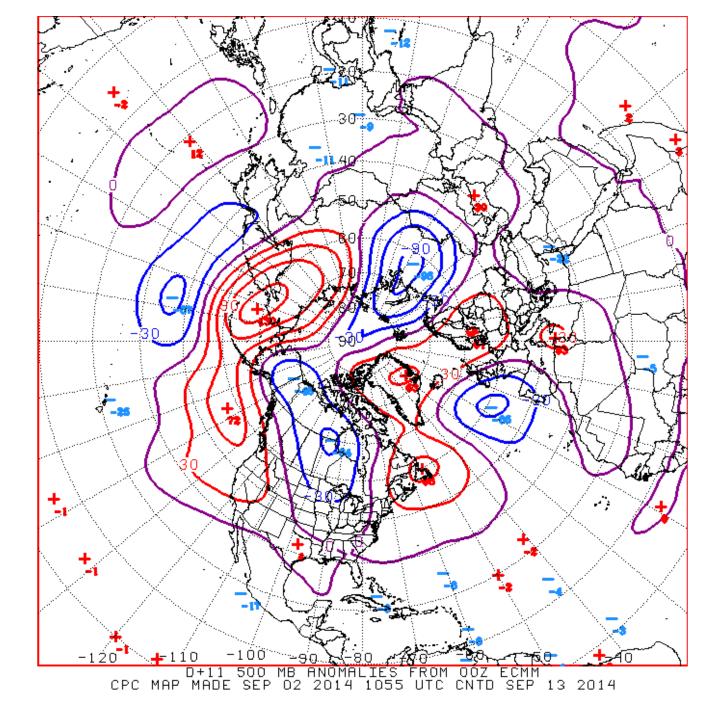


Tropical or Sub-Tropical Cyclone: O Depression 5 Storm Hurricane ⊗ Post-Tropical Cyclone

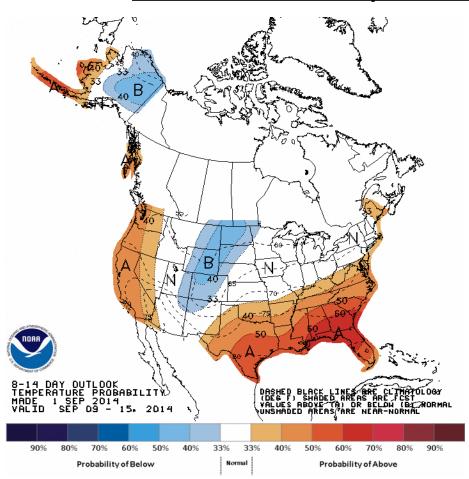
X Remnants

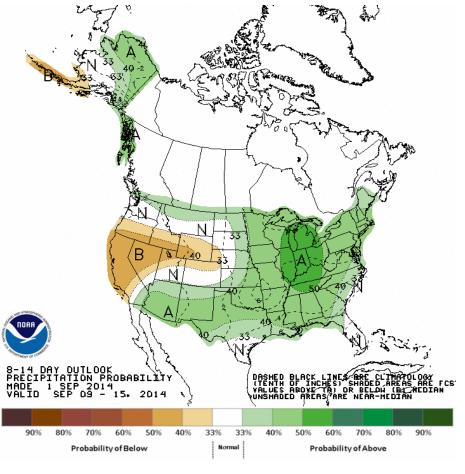


Connections to U.S. Impacts



Week 2 - Temperature and Precipitation







Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







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