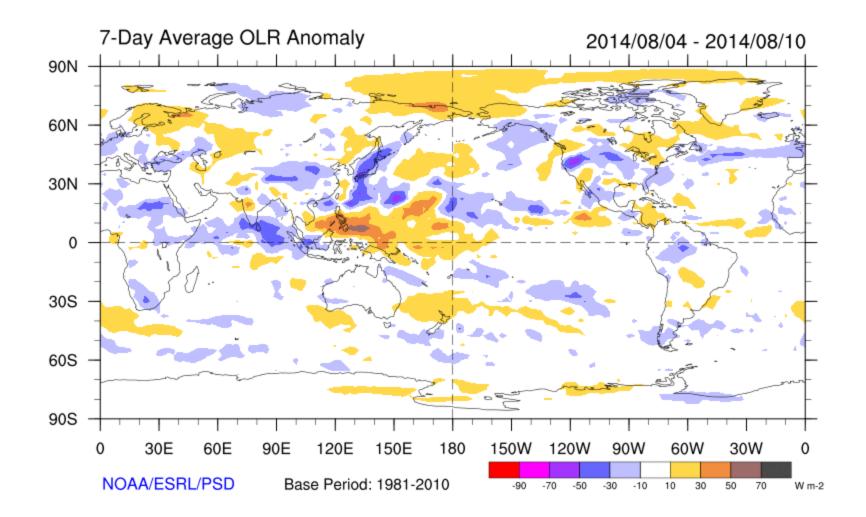
Global Tropics Hazards And Benefits Outlook <u>August 12, 2013</u>

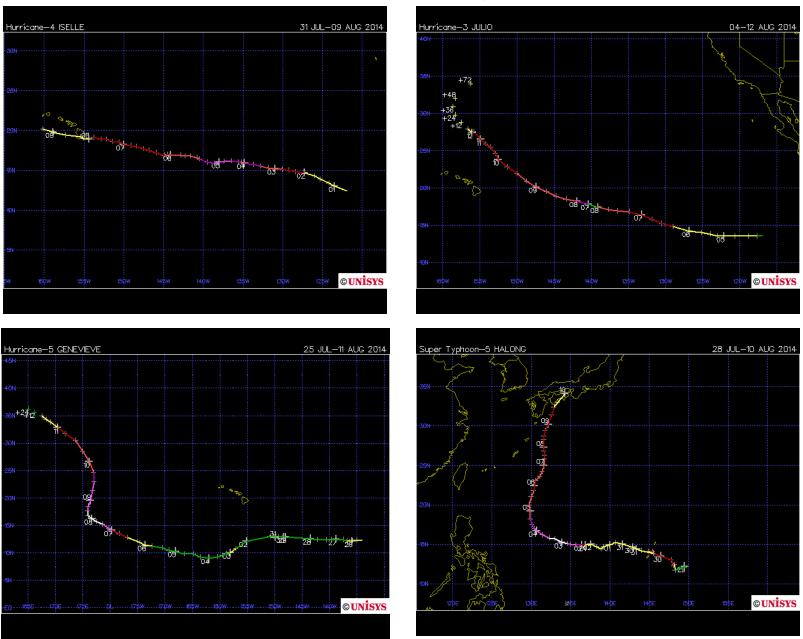
Jon Gottschalck

<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



Pacific Tropical Cyclones



Global Tropics Hazards and Benefits Outlook - Climate Prediction Center **Outlook** Week 1 - Valid: Aug 06, 2014 - Aug 12, 2014 Review 30° N 20° N 20° N 10° N 10° N 10° S 20° S 20° S 30° S 30° S Week 2 - Valid: Aug 06, 2014 - Aug 120° W 120° W 2014 0° 30° E 60° E 30° W 30° N 20° N 20° N 10° S 7-Day Average OLR Anomaly 20° S 2014/08/04 - 2014/08/10 30° S 90N 60N Cool shading 30N More clouds/rain Warm shading 30S

60S

90S

60E

Base Period: 1981-2010

NOAA/ESRL/PSD

60W

30W

Less clouds/rain

Synopsis of Climate Modes

ENSO:

• El Nino Watch remains in effect with probabilities near 65% during the Oct-Nov-Dec through Dec-Jan-Feb seasons.

MJO and other subseasonal tropical variability:

- The MJO remained weak in general and this is indicated by objective MJO indices. There is some evidence, however, of an intraseasonal signal, primarily noted as an envelope of suppressed convection that has slowly shifted eastward to the western Pacific from the Indian Ocean.
- A strong westward moving equatorial Rossby wave is evident across the western Pacific.
- Looking ahead, the fact remains that robust, canonical and longer-lived MJO activity has been difficult to initiate and maintain in recent months and this is likely to continue. Both statistical and dynamical model forecast tools indicate little prospects for more strong MJO activity to emerge in the coming few weeks.

Extratropics:

• Convective pattern favors little subseasonal predictability originating from Tropics at the current time. Latest model guidance indicates sub-par monsoon precipitation for the Southwest beginning later this week into next week.



Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Aug 20, 2014 - Aug 26, 2014



Confidence
High Moderate

Produced: 08/12/2014

Forecaster: Gottschalck

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.







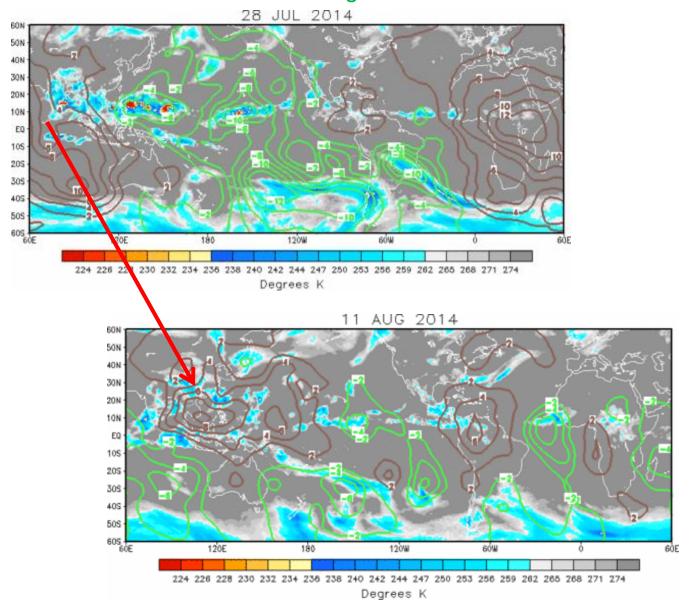


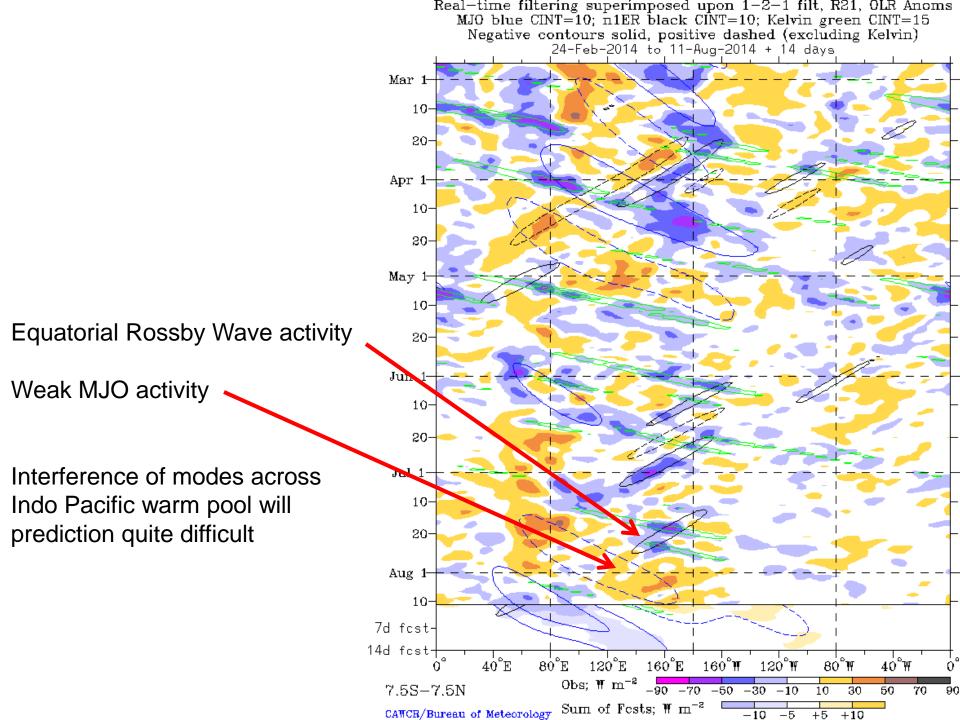




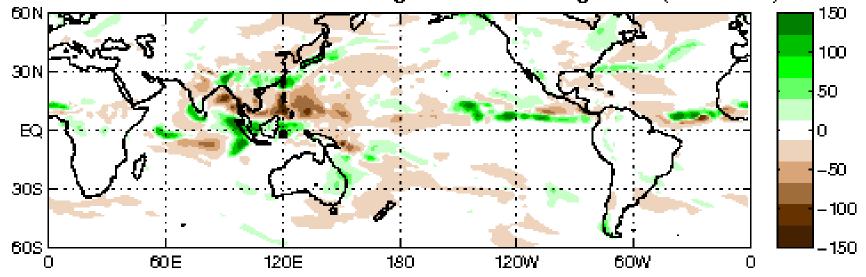
IR Satellite & 200-hpa Velocity Potential Anomalies

Green: Enhanced Divergence Brown: Enhanced Convergence

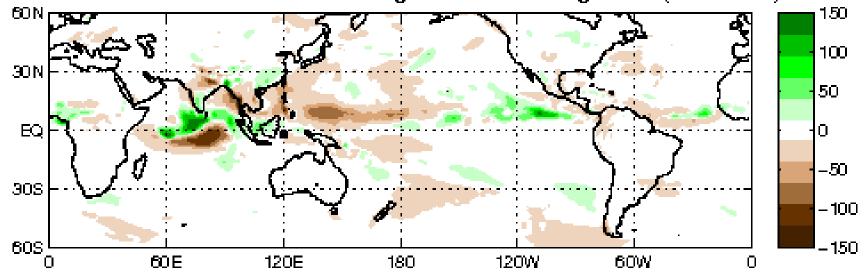




CFS: Anom. PREC Week1: 12-Aug-2014 to 18-Aug-2014 (mm/week).



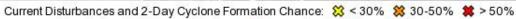
CFS: Anom. PREC Week2: 19-Aug-2014 to 25-Aug-2014 (mm/week).



2-Day Graphical Tropical Weather Outlook National Hurricane Center Miami, Florida

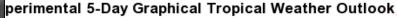






Post-Tropical Cyclone X Remnants

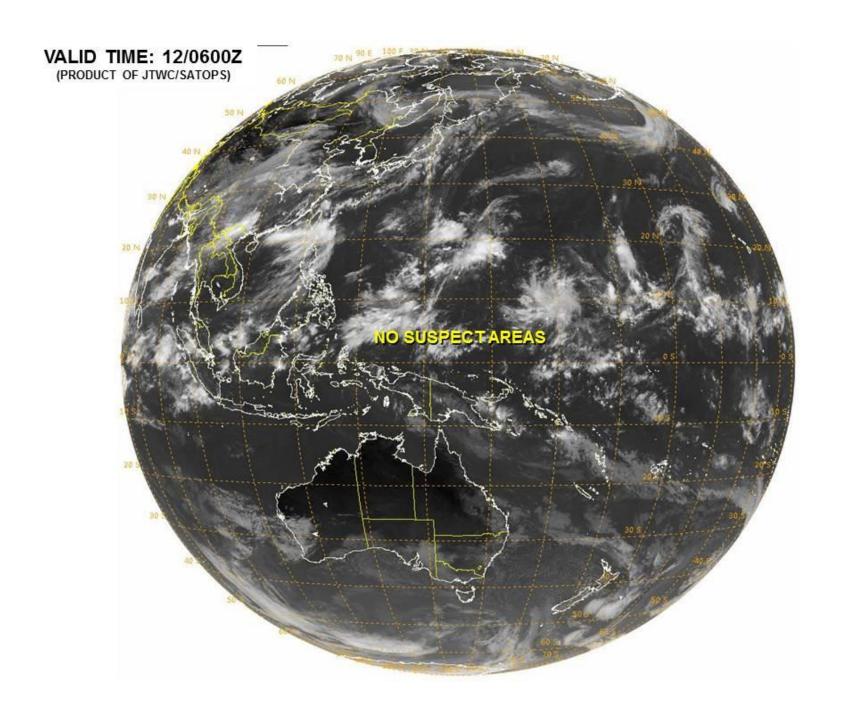
Tropical or Sub-Tropical Cyclone: O Depression 5 Storm Hurricane

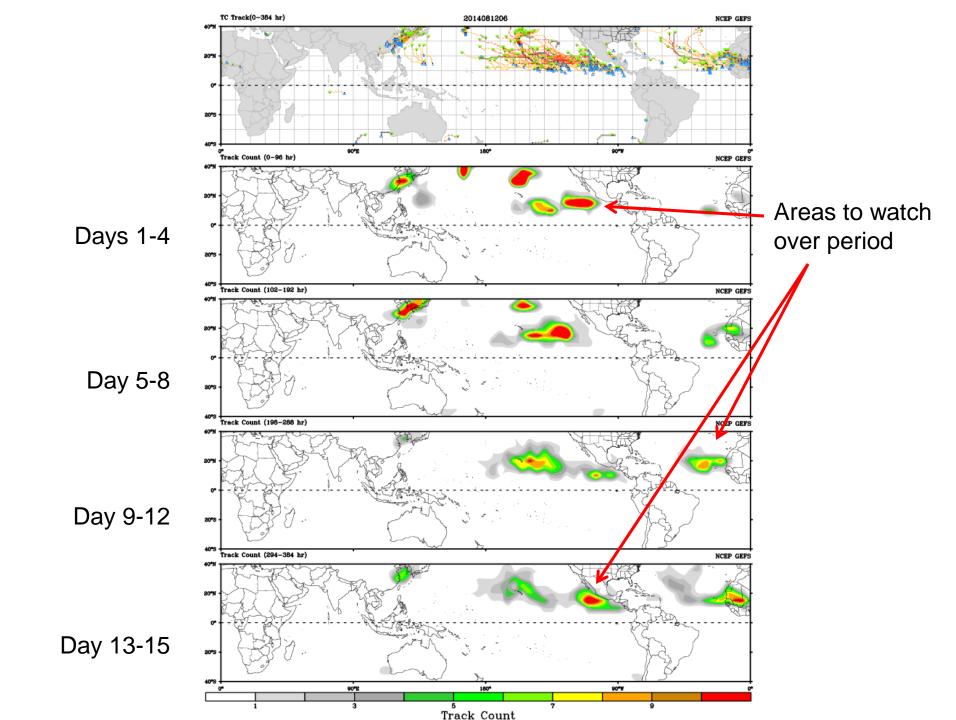






Tropical Cyclone Formation Potential for the 5-Day Period Ending 5:00 am PDT Sun Aug 17 2014 Chance of Cyclone Formation in 5 Days: ☐ Low < 30% ☐ Medium 30-50% ☐ High > 50% X indicates current disturbance location; shading indicates potential formation area.



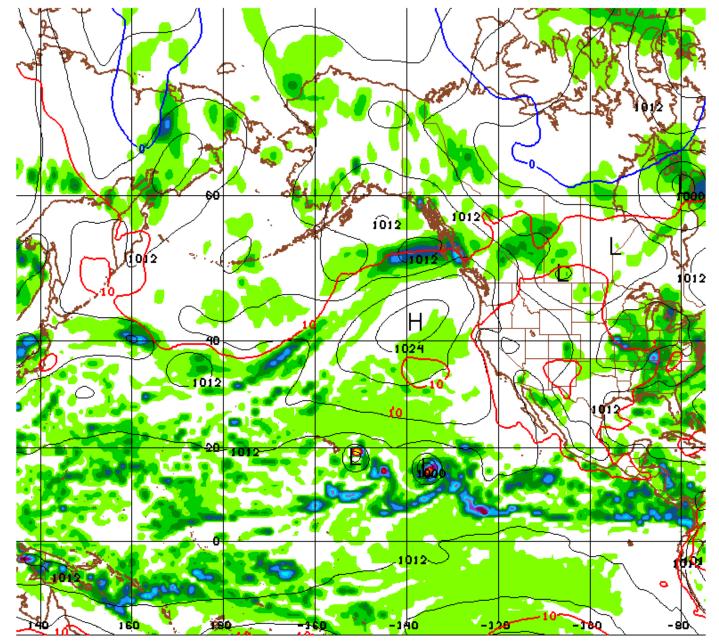




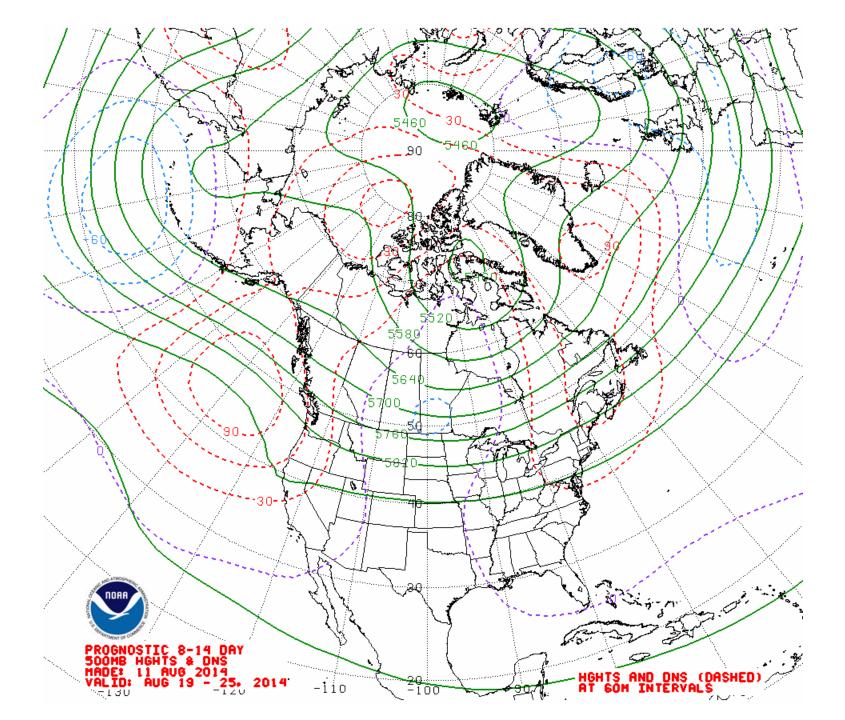
9.00 6.00 7.00

6.00 5.00

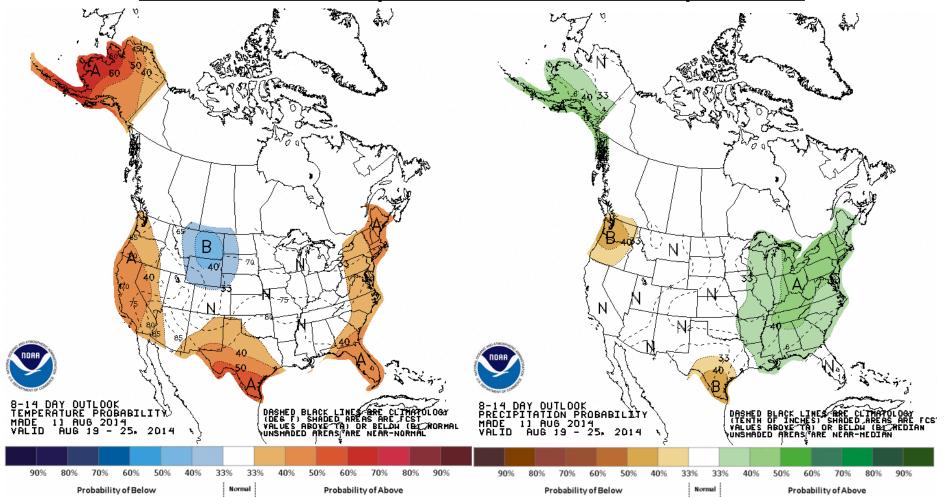
4.00 3.00 2.50 2.00 1.75 1.50 1.25 1.00 0.75 0.50 0.25 0.10 0.01



140819/1800V180 GFS MSLP 12HR PRCP(IN) 850MB TEMP(C)



Week 2 - Temperature and Precipitation





Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Aug 20, 2014 - Aug 26, 2014



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Produced: 08/12/2014

Forecaster: Gottschalck

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