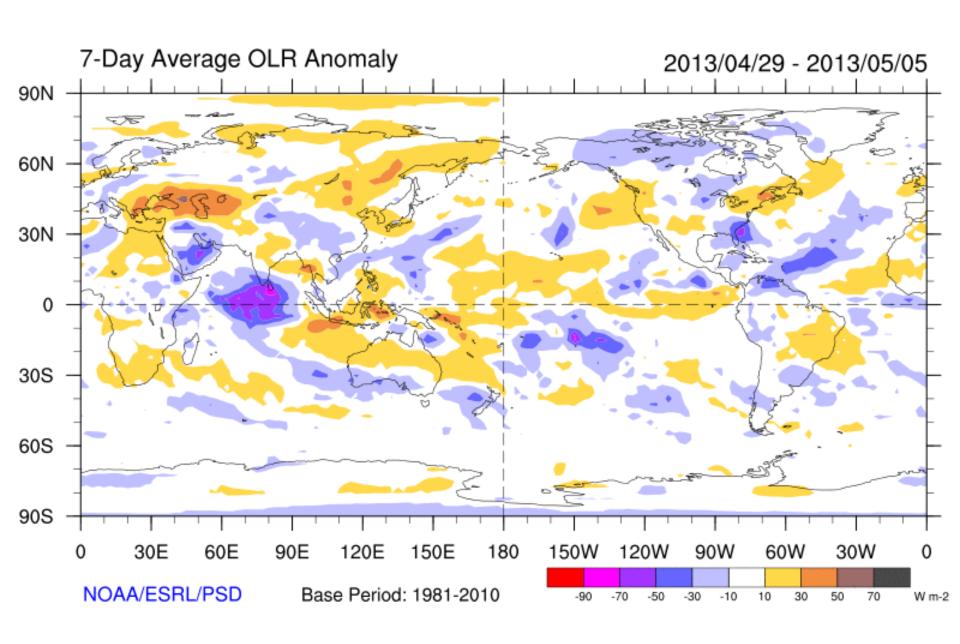
Global Tropics Hazards And Benefits Outlook May 7, 2013

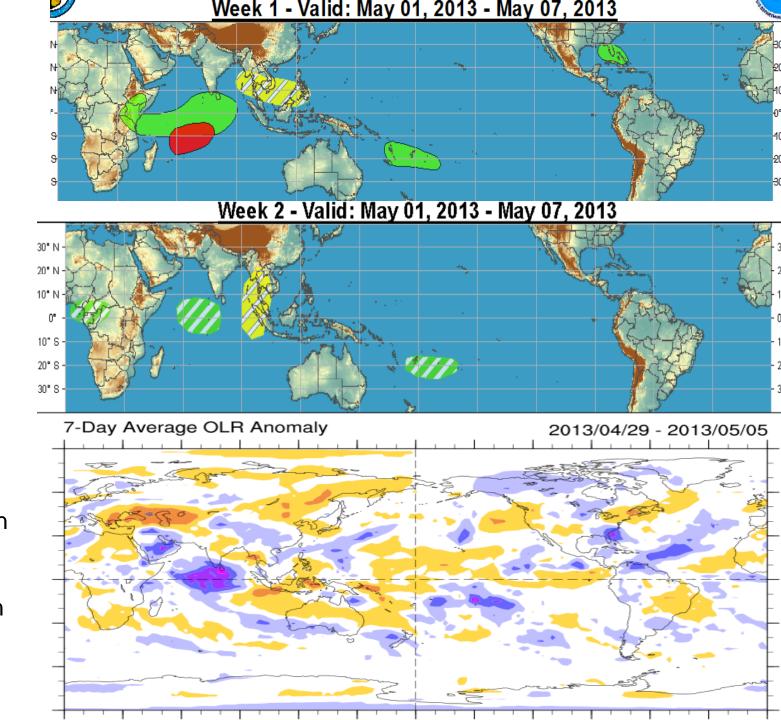
Brad Pugh

<u>Outline</u>

- 1. Review of Recent Conditions
- 2. Synopsis of Climate Modes
- 3. GTH Outlook and Forecast Discussion



Outlook Review



Cool shading More clouds/rain

Warm shading Less clouds/rain

Synopsis of Climate Modes

ENSO:

• ENSO-neutral conditions are favored to continue through boreal summer 2013.

MJO and other subseasonal tropical variability:

- The MJO strengthened since the beginning of May as many observational indicators are more coherent than late April.
- •Model MJO index forecasts continue an organized MJO during the next 2 weeks with enhanced convection shifting east from the Indian Ocean to the Maritime Continent.

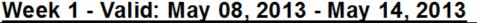
Extratropics:

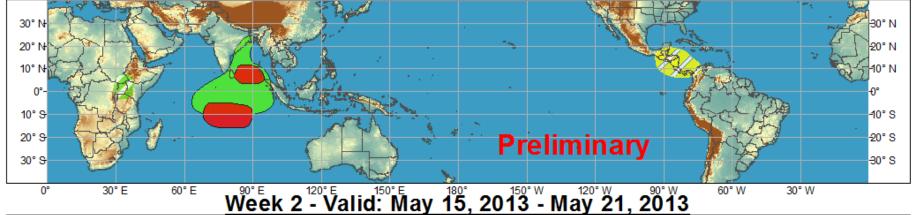
- Due to the transition time of year (too early to influence monsoon flow & TC development), the MJO is expected to have only minor effects on the mid-latitudes of North America.
- •The expected evolution of the MJO tends to favor above normal temperatures for the eastern half of the nation late week-2 and week-3.

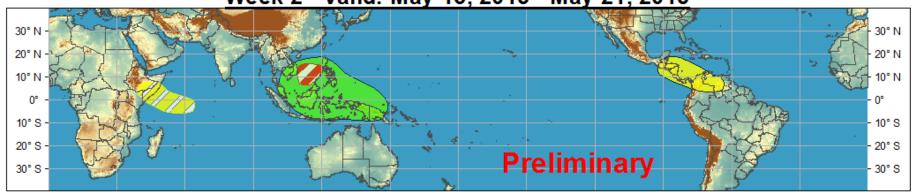


Global Tropics Hazards and Benefits Outlook - Climate Prediction Center









Confidence Produced: 05/06/2013
High Moderate Forecaster: Pugh

Tropical Cyclone Formation Development 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.





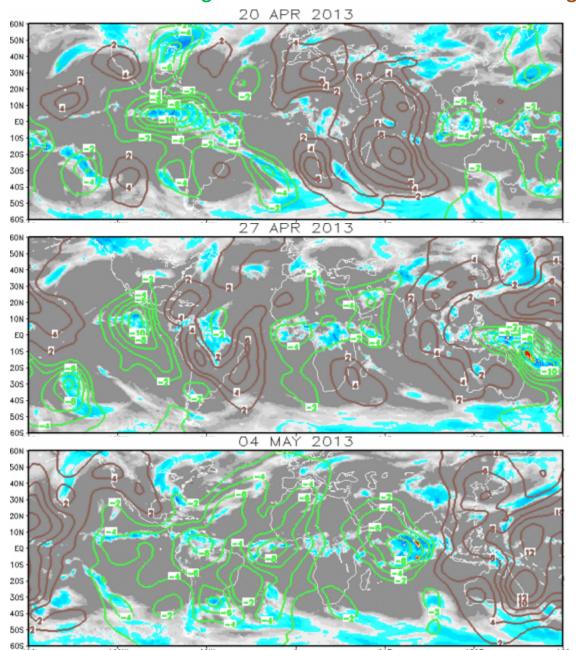






IR Satellite & 200-hpa Velocity Potential Anomalies

Green: Enhanced Divergence Brown: Enhanced Convergence

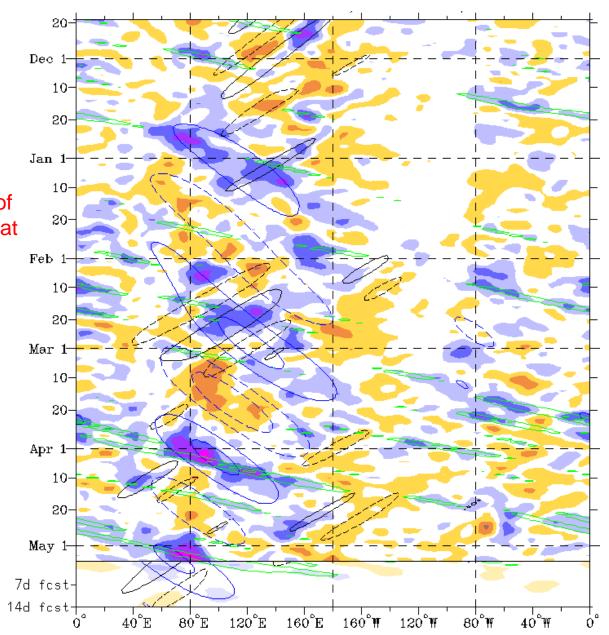


OLR Anomalies

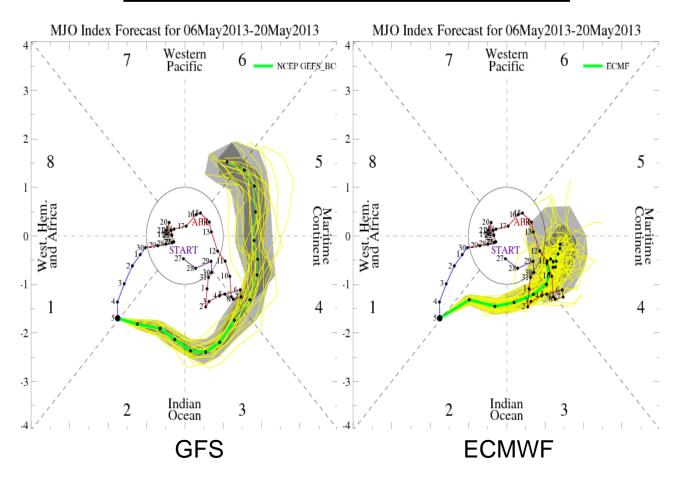
Cool shading More clouds/rain

Warm shading Less clouds/rain

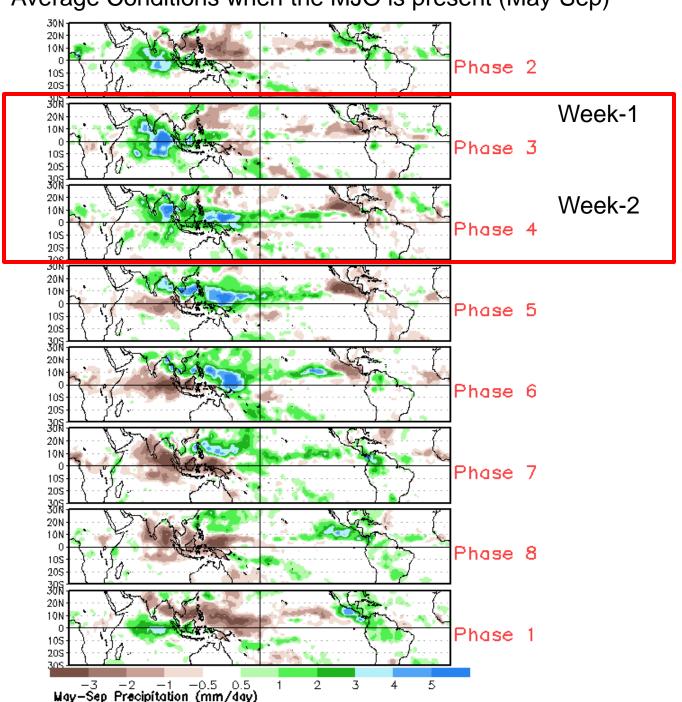
Ovals represent the targeting of organized tropical variability that can be used to aid predictions



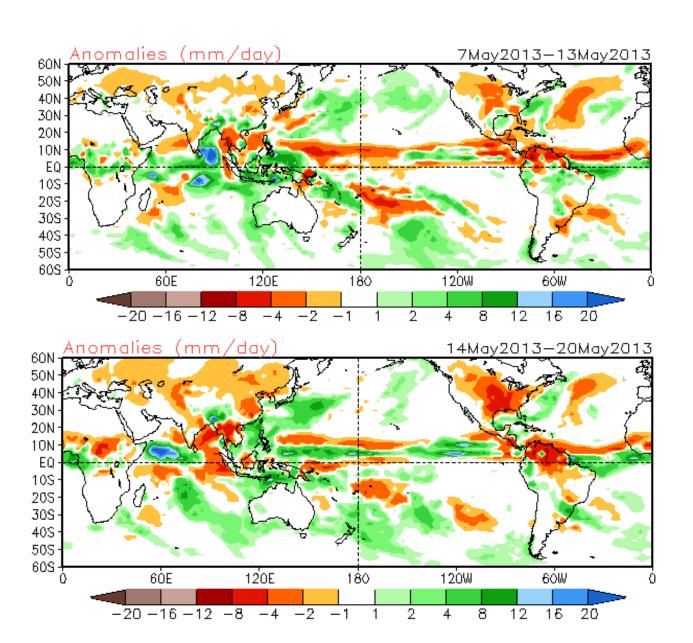
MJO Observation/Forecast



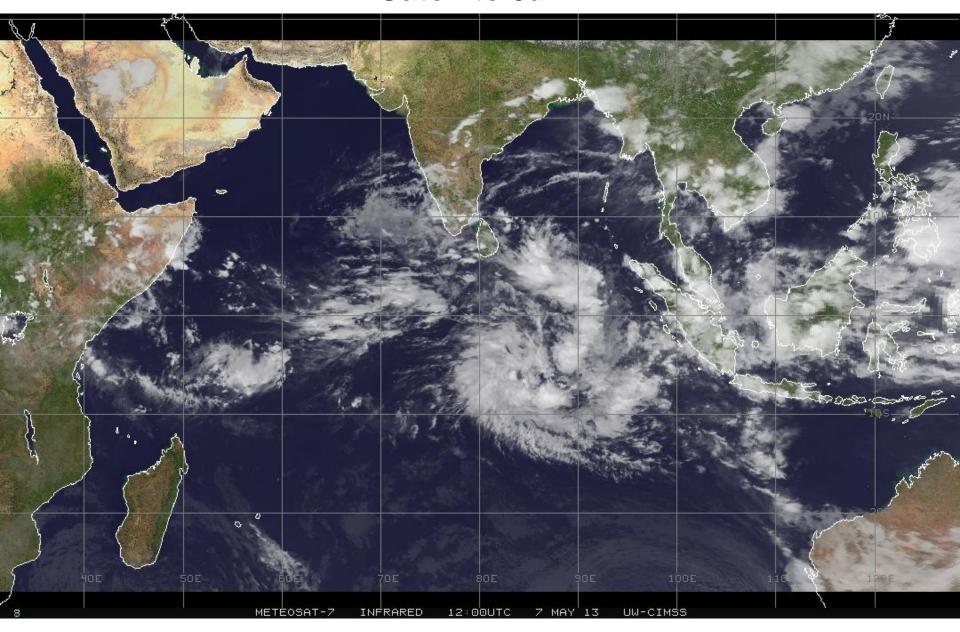
Average Conditions when the MJO is present (May-Sep)



GFS Model



IR Satellite 8am EDT



May Tropical Storm Formation by MJO phase

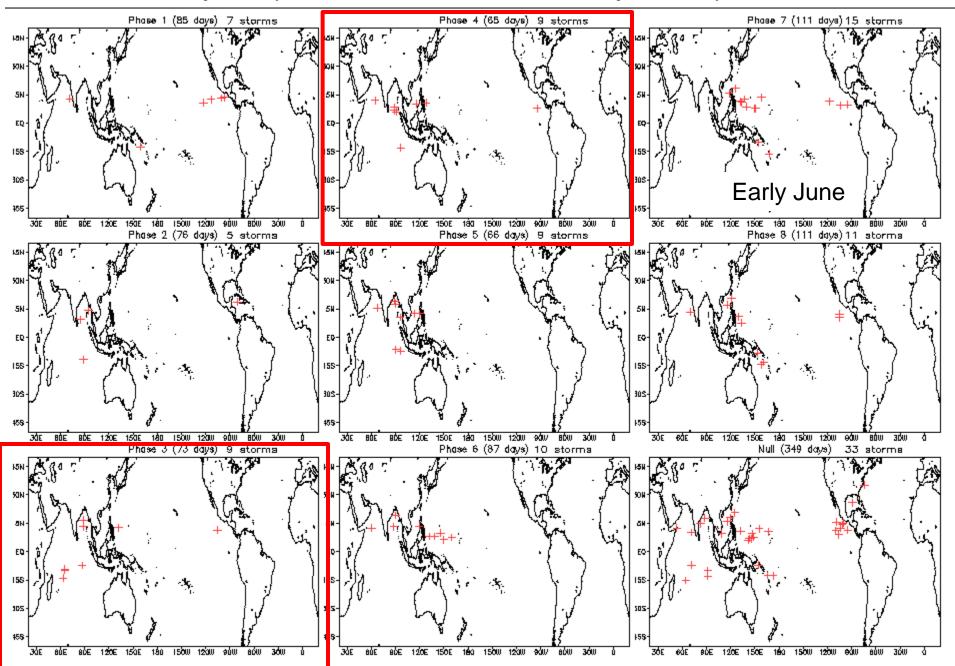
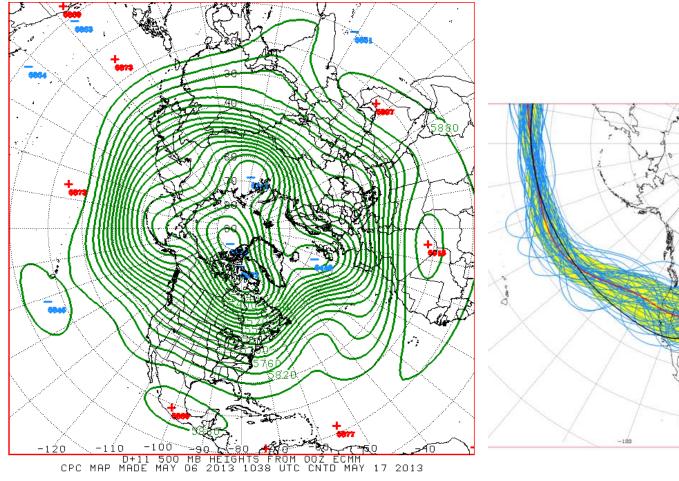
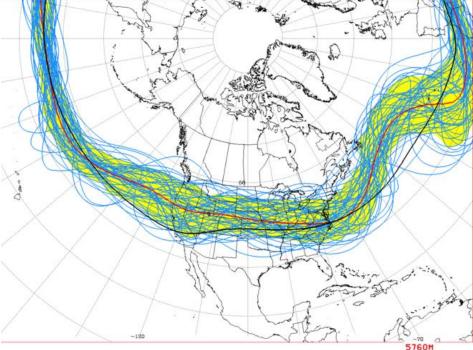


Table 2. Progress of the average eastern Pacific season (1971-2009). Date upon which the following number of events would normally have occurred.

Number	Named systems	Hurricanes	Category 3 or greater
1	June 10	June 26	July 19
2	June 25	July 14	Aug 19
3	July 5	July 29	Sep 20
4	July 14	Aug 12	-
5	July 22	Aug 26	-
6	July 30	Sep 9	-
7	Aug 7	Sep 24	-
8	Aug 15	Oct 15	-
9	Aug 24	-	-
10	Sep 1	-	-
11	Sep 10	-	-
12	Sep 19	-	-
13	Sep 28	-	-
14	Oct 11	-	-
15	Nov 5	-	-

Mean mid-level forecast circulation for Days 8-14

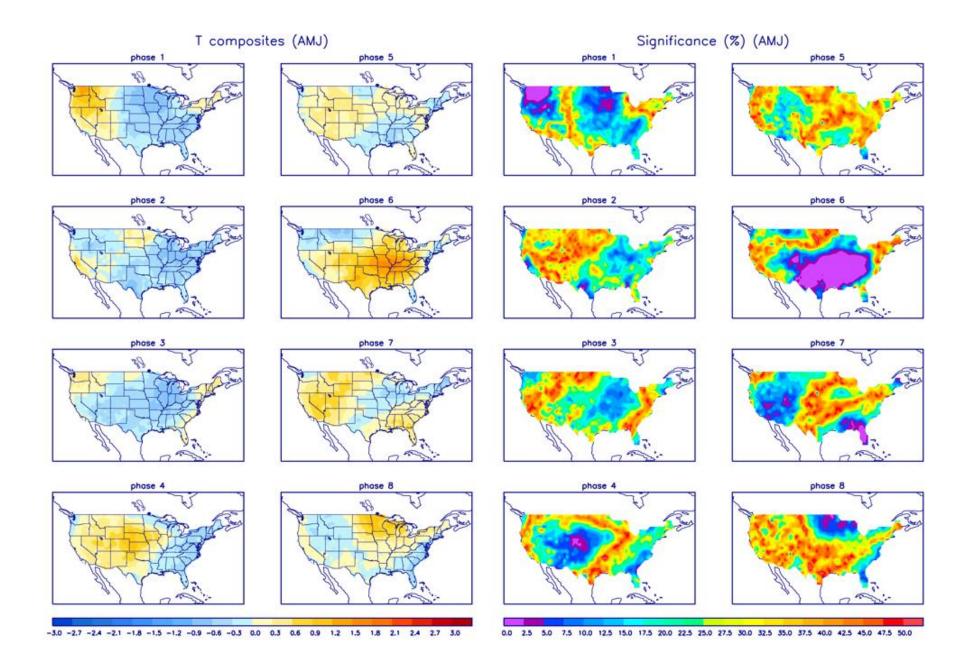




<u>Total</u>

Individual Ensemble Members

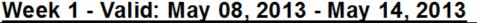
(Mean: Black & Climo: Red)

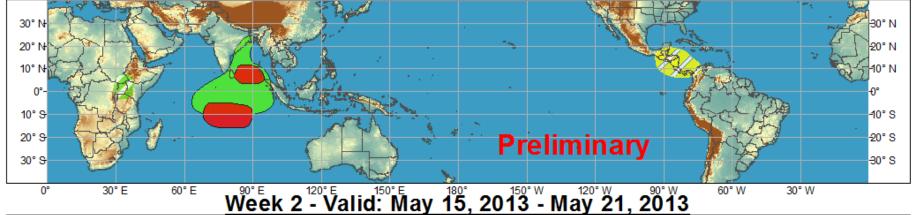


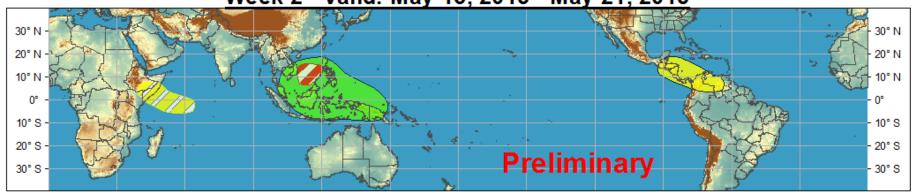


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