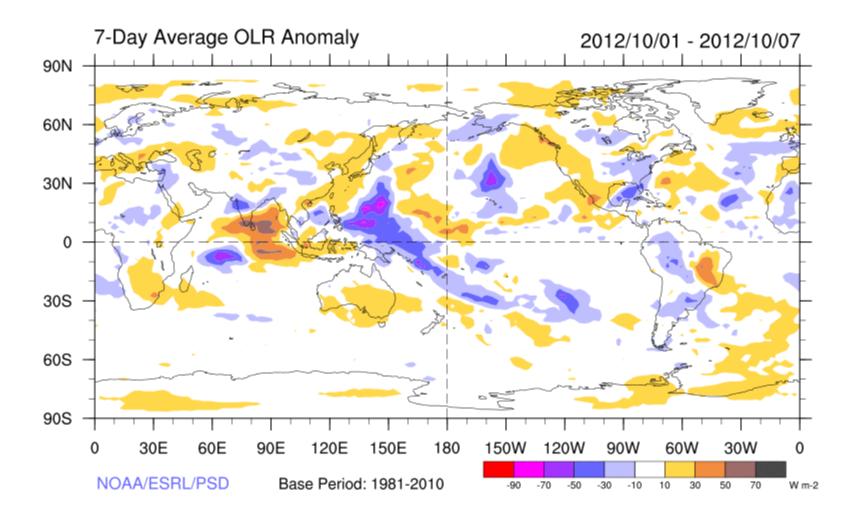
# Global Tropics Hazards And Benefits Outlook October 9, 2012

Jon Gottschalck

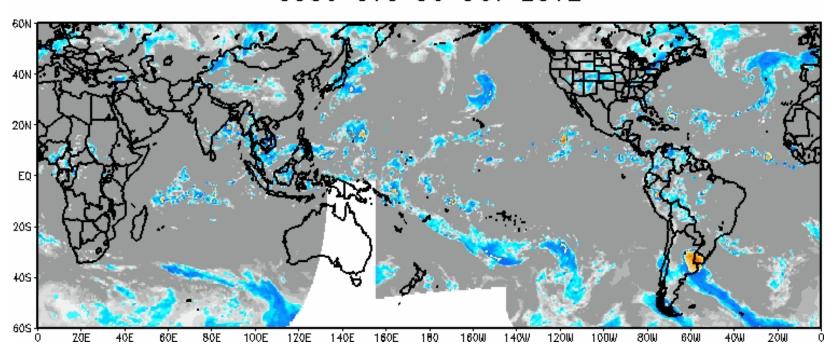
#### **Outline**

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

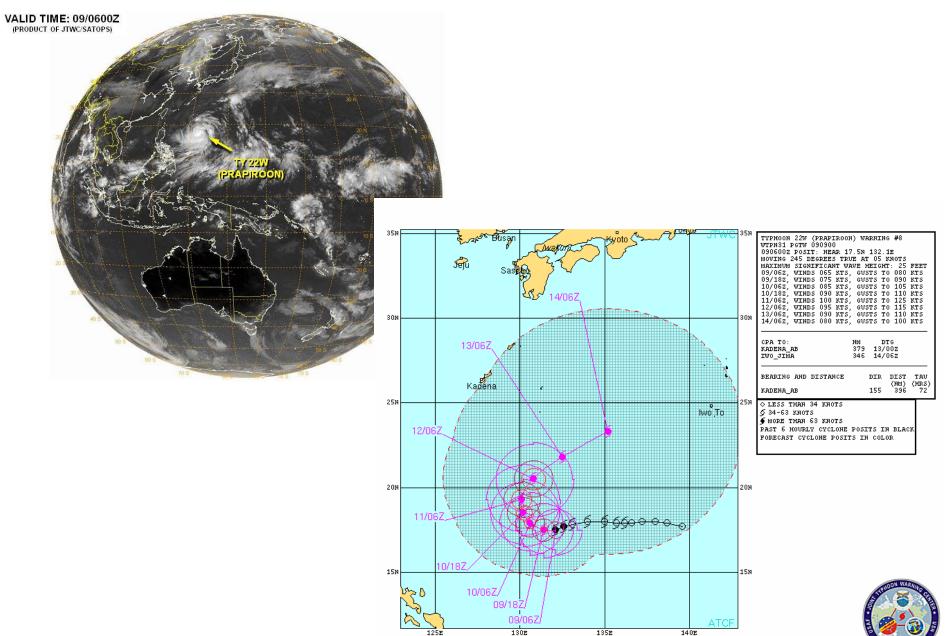


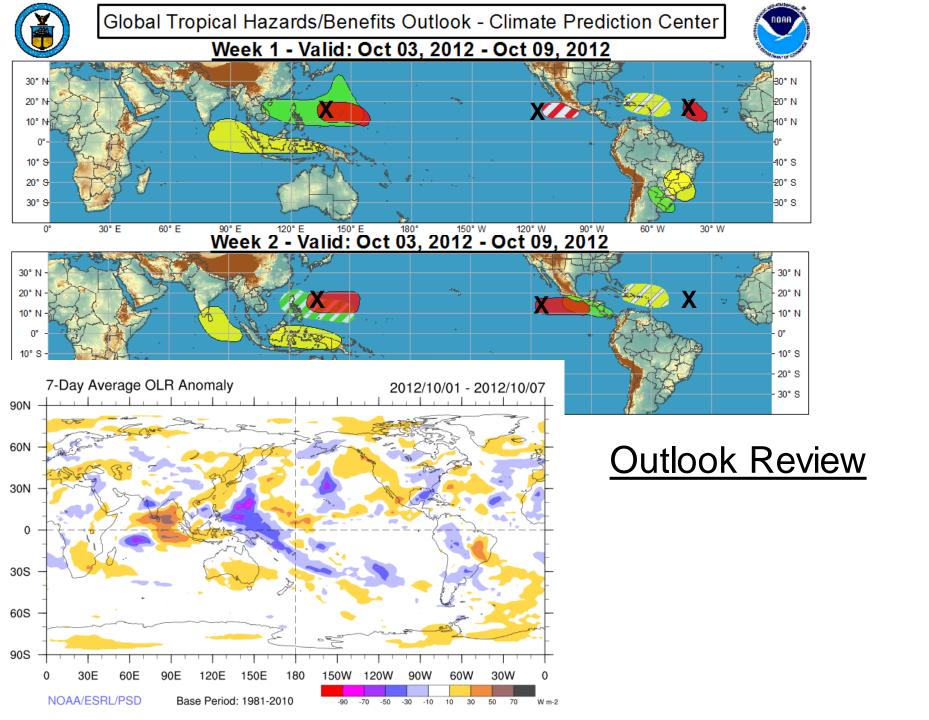
# Weekly Satellite Review

IR Temperatures 0900 UTC 06 OCT 2012



# **Tropical Cyclone Review**





# Synopsis of Climate Modes

#### **ENSO:**

• Borderline ENSO-neutral / weak El Niño conditions are expected to continue into Northern Hemisphere winter 2012-13, possibly strengthening during the next few months.

#### MJO and other subseasonal variability:

- The MJO remained weak.
- Some potential for a stronger signal to develop in the western hemisphere in Week-2
- Model skill of MJO index forecasts has been very marginal recently
- Most likely a combination of other tropical subseasonal variability (atmospheric Kelvin and ER wave activity)

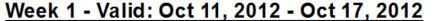
#### **Extratropics:**

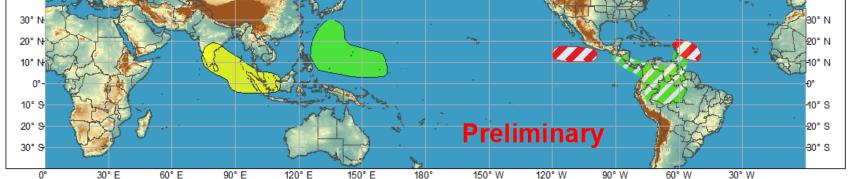
Some extended range model guidance favors moisture from the Tropics entering SW/SP once again



#### Global Tropical Hazards/Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Oct 18, 2012 - Oct 24, 2012



Confidence Produced: 10/09/2012

High Moderate Forecaster: Gottschalck\

**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.

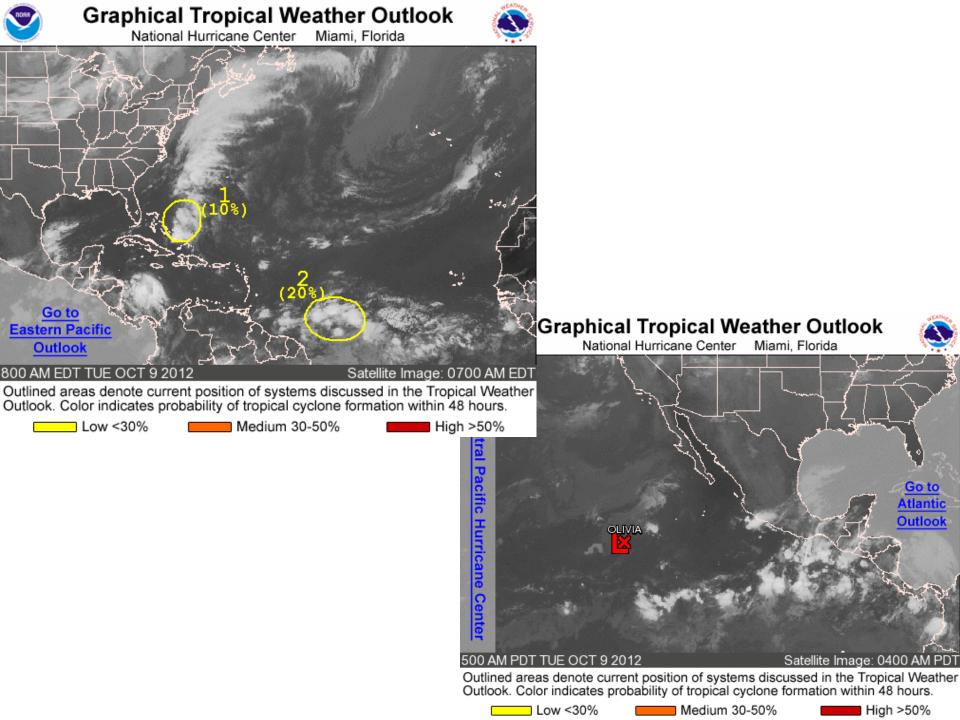
Product is updated once per week. The product targets broad scale conditions integrated over a 7-day period for US interests only. Consult your local responsible forecast agency.





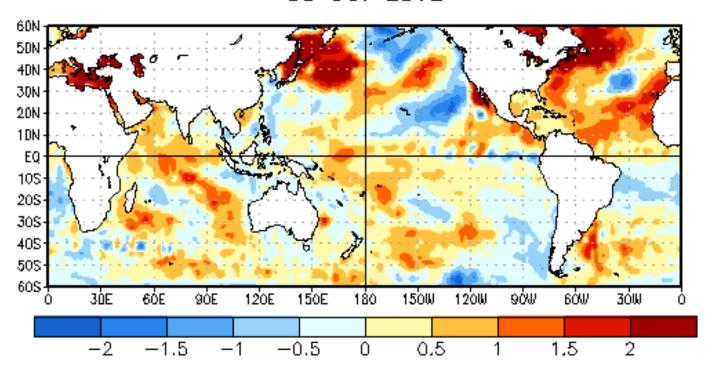






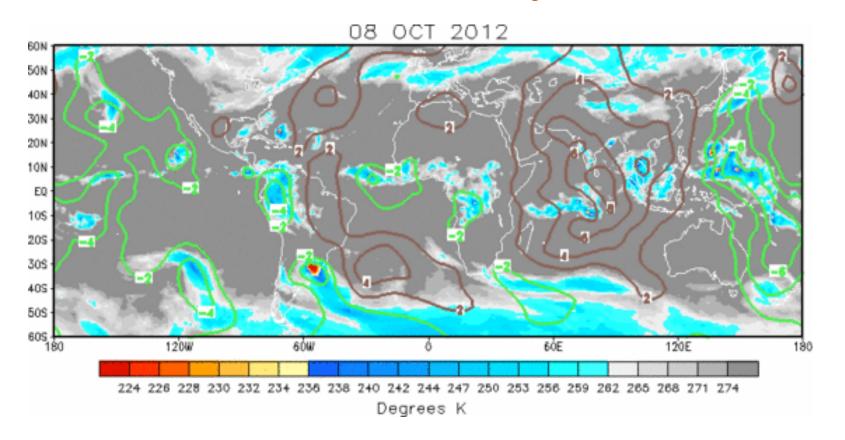
## **SST Observations**

03 OCT 2012

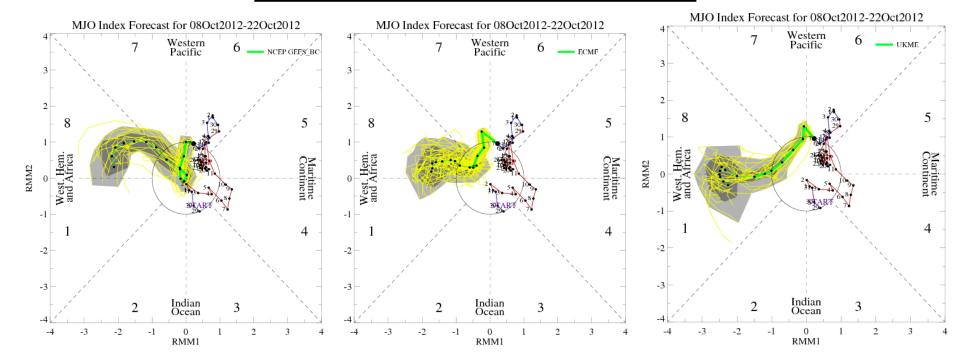


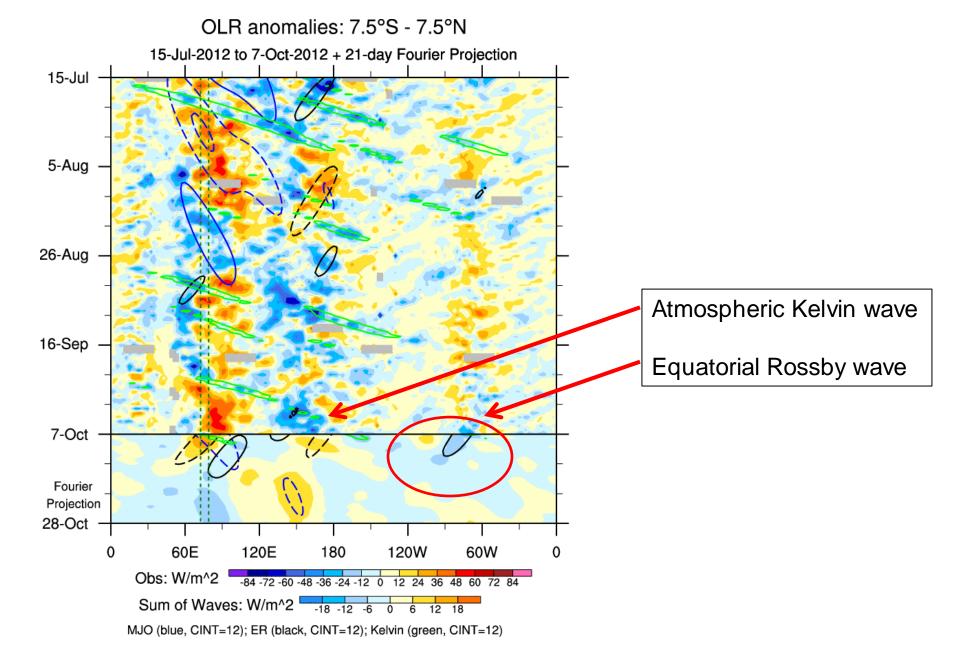
#### IR Satellite & 200-hpa Velocity Potential Anomalies

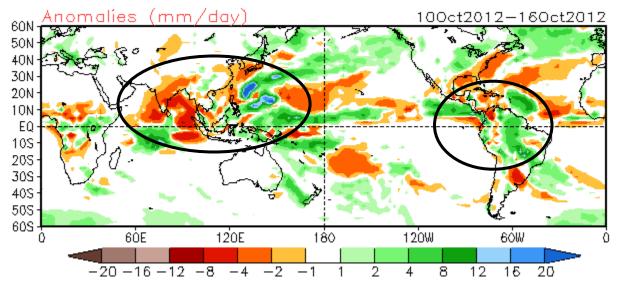
Green: Enhanced Divergence
Brown: Enhanced Convergence



## MJO Observation/Forecast







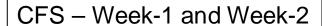
GFS - Week-1

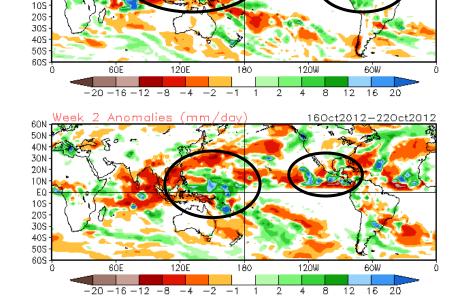
90ct2012-150ct2012

CFSv2 Weeks 1 & 2 Precipitation 16 Member Ensemble Mean Forecast from 080ct2012

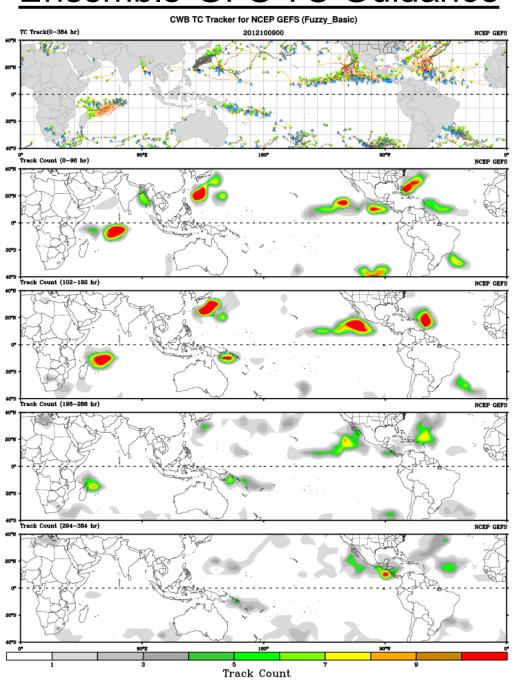
Week 1 Anomalies (mm/day)

30N 20N





## Ensemble GFS TC Guidance

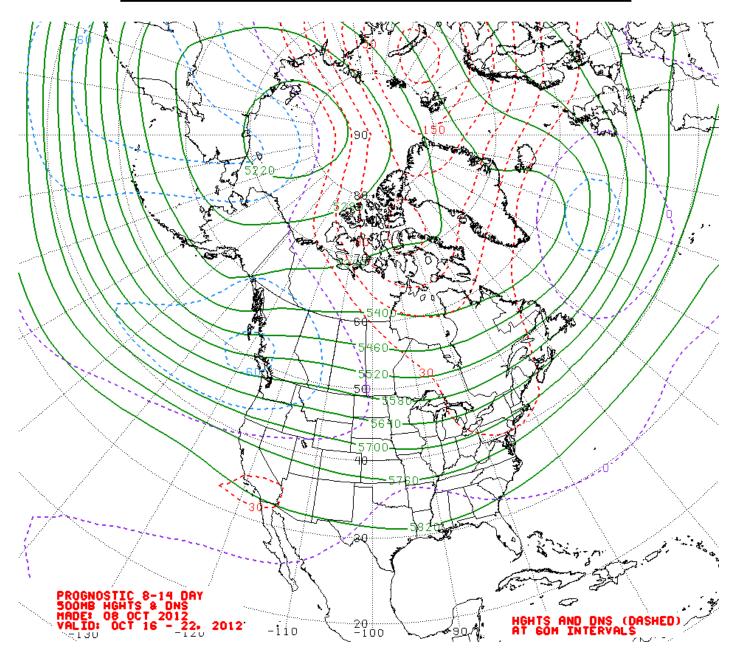


#### CDAS 850-hPa U Anoms. (5N-5S)16APR2012 1WAY2012-18WAY2012 -16 14 1JUN2012 -12 10 1B 1BJUN2012 1JUL2012 16JUL2012 1AUG2012 --10-1216AUG2012 --14-16 1SEP2012 -16SEP2012 -10CT2012 -1DOE 120E 140E 160W 140W 8ÓE 160E 180

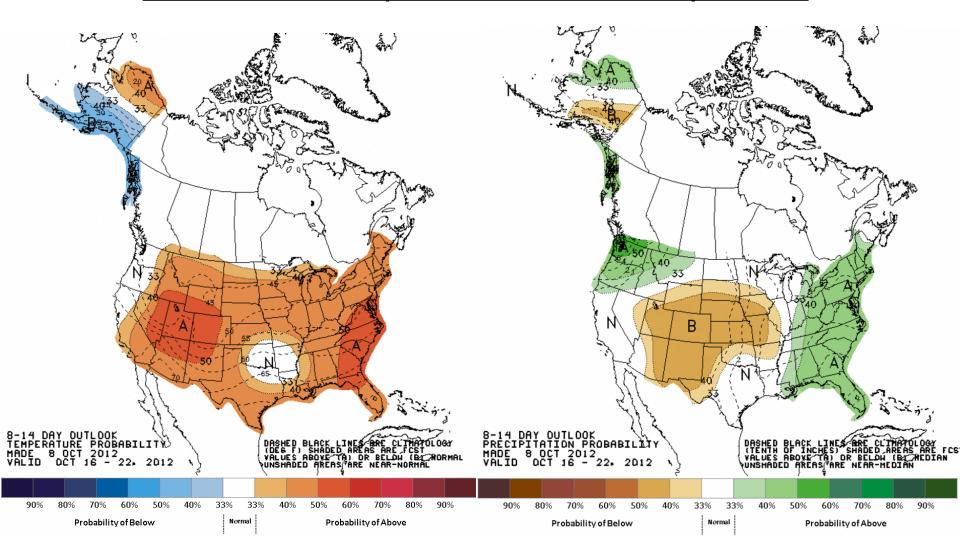
Westerly wind burst, some help for El Nino?

Data updated through 06 OCT 2012

### Week 2 500-hPa Manual Chart



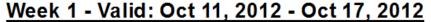
## Week 2 -- Temperature and Precipitation

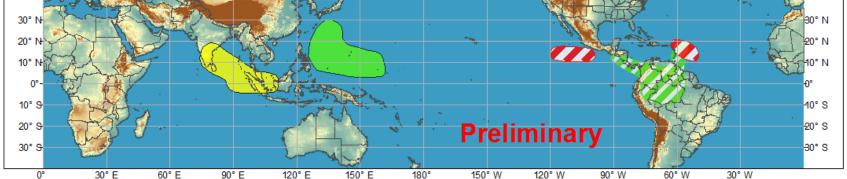




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