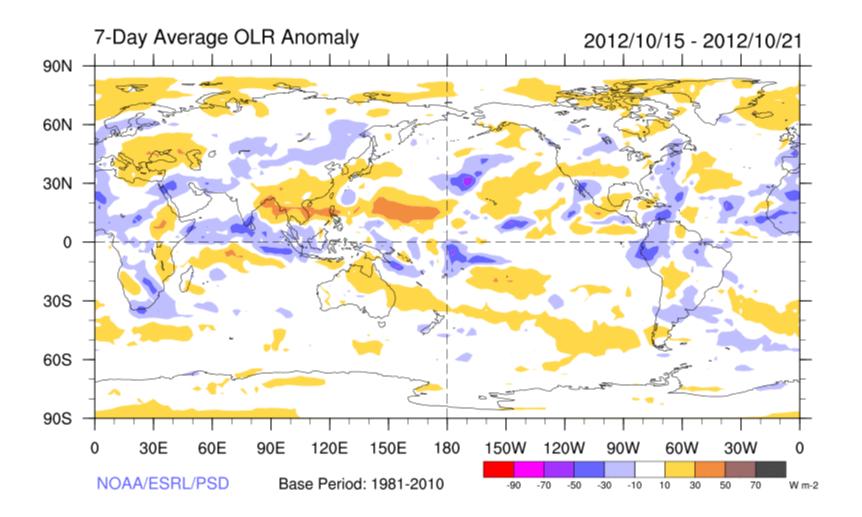
Global Tropics Hazards And Benefits Outlook October 23, 2012

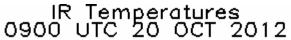
Jon Gottschalck

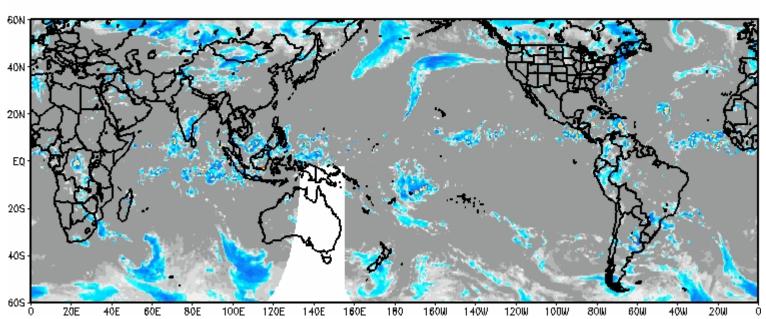
<u>Outline</u>

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



Weekly Satellite Review





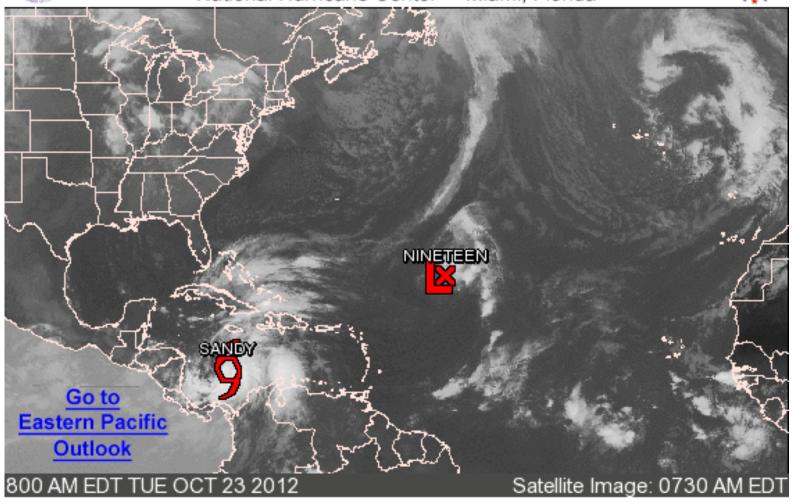
Tropical Cyclone Review

DAR

Graphical Tropical Weather Outlook



National Hurricane Center Miami, Florida

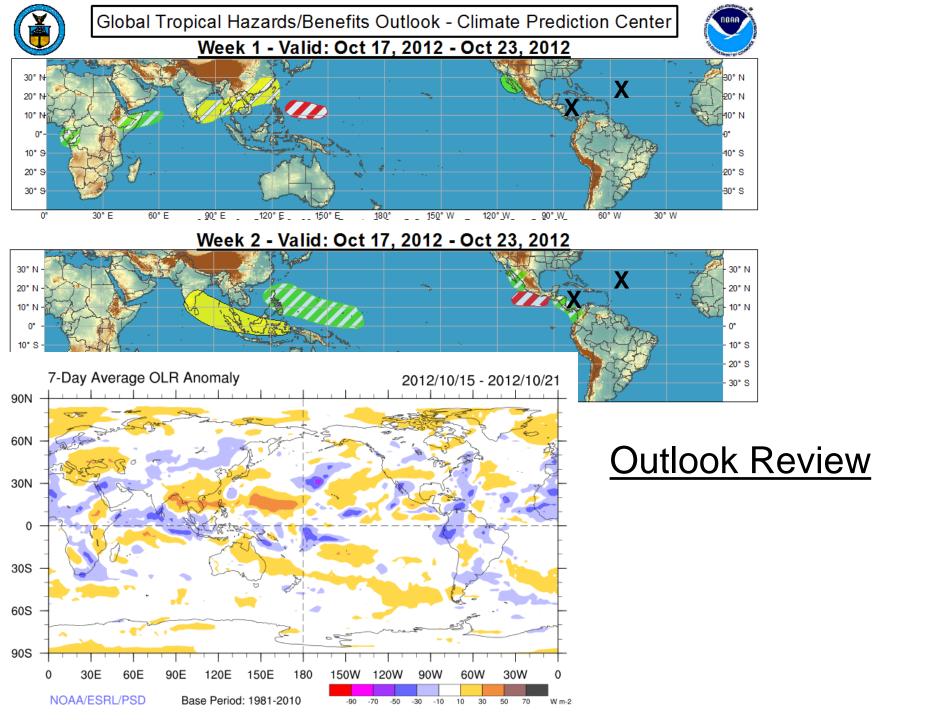


Outlined areas denote current position of systems discussed in the Tropical Weather Outlook. Color indicates probability of tropical cyclone formation within 48 hours.

Low <30%

Medium 30-50%

High >50%



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:

- Some evidence that the MJO has become better organized (centered across Africa).
- Model MJO index forecasts show a weak signal with only minor eastward propagation.
- It remains too early to say whether a more coherent long-lived MJO emerges
- Poor model skill of MJO index forecasts during October.
- High uncertainty during the next 2 weeks on whether a coherent MJO develops.

Extratropics:

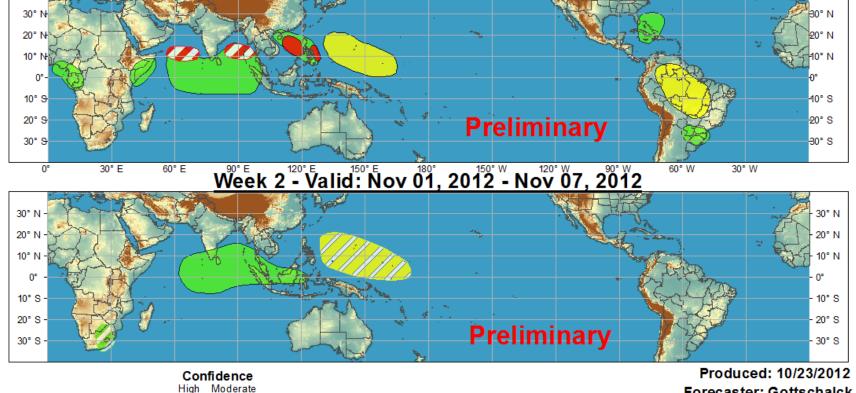
- Sandy needs to be closely monitored for any impact to eastern seaboard this weekend
- AO index continues to run negative and is the primary driver for recent and forecast cold air intrusions across parts of the U.S.



Global Tropical Hazards/Benefits Outlook - Climate Prediction Center



Week 1 - Valid: Oct 25, 2012 - Oct 31, 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.

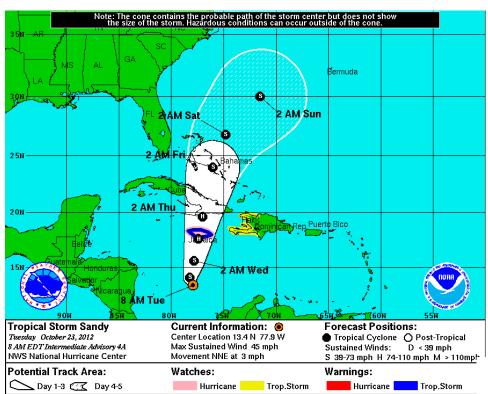
Product is updated once per week. The product targets broad scale conditions integrated over a 7-day period for US interests only. Consult your local responsible forecast agency.

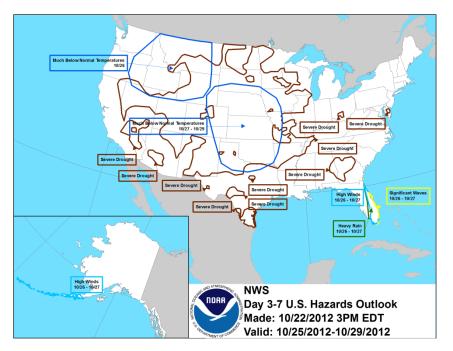


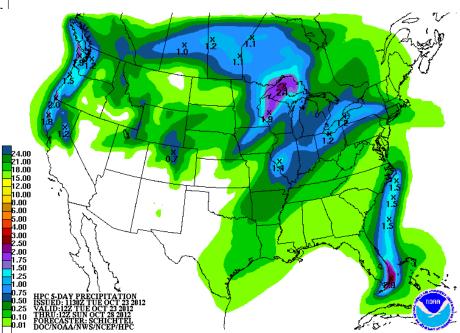






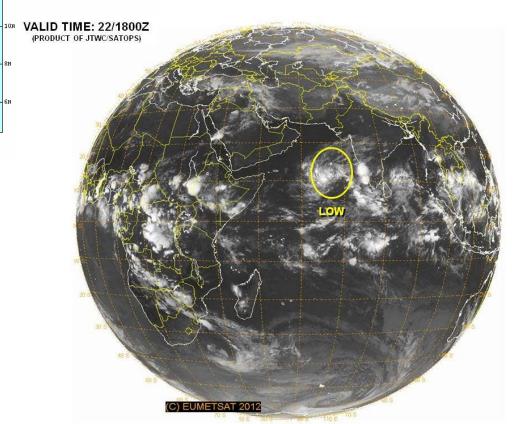






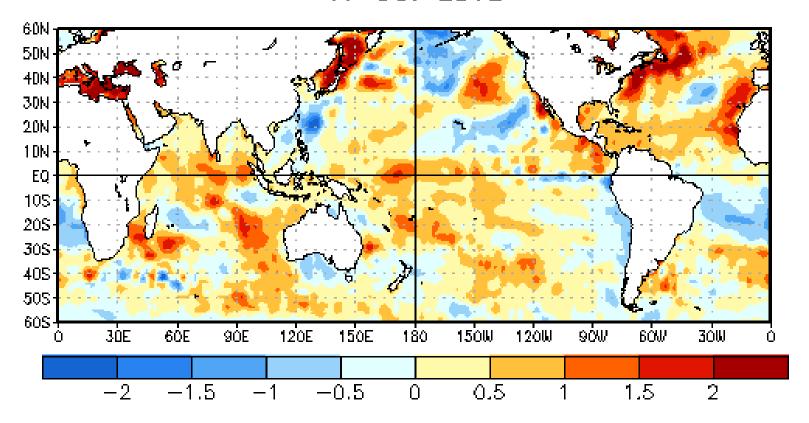


TROPICAL CYCLONE FORMATION ALERT WTPM21 PGTW 231030 2305002 POSITION: NEAR 8.6M 128.5E MOVING WESTWARD AT 08 KNOTS MAXIMUM SUSTAINED WINDS: 23 KNOTS



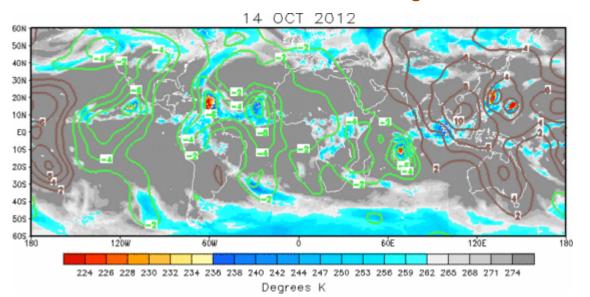
SST Observations

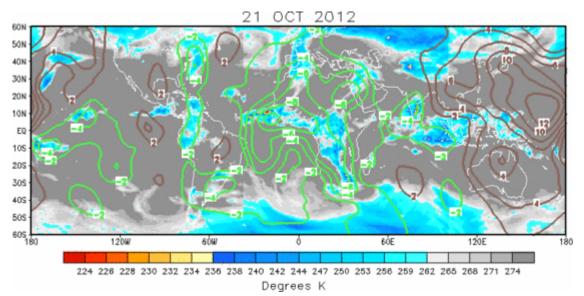
17 OCT 2012



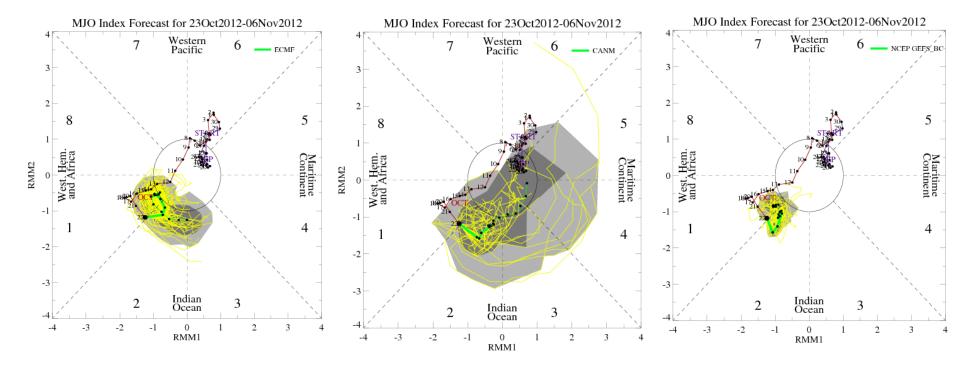
IR Satellite & 200-hpa Velocity Potential Anomalies

Green: Enhanced Divergence
Brown: Enhanced Convergence

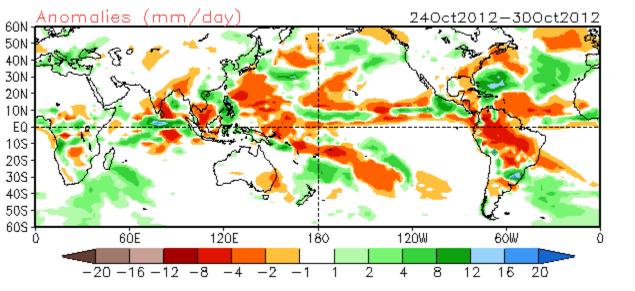




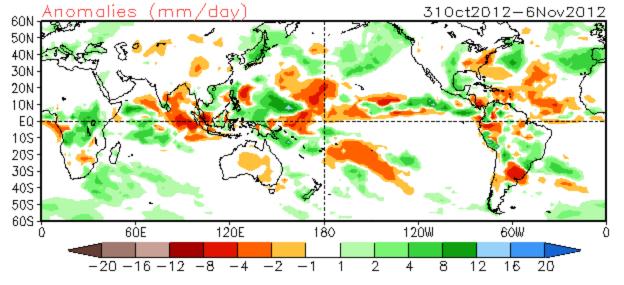
MJO Observation/Forecast



Average Conditions when the MJO is present (May-Sep) 30N 20N 10N Phase 2 105 20S 35N 20N 10N Phase 3 10S 20S 308 20N 10N Phase 4 10S 20S 30N 20N 10N Phase 5 10S 20S 30S 30N 20N 10N Phase 6 10S 20S 38Ñ 20N 10N Phase 7 10S -20S -30S -30N -20N -10N -Phase 8 10S 20S 30N -20N -10N Phase 1 105 20S -3 -2 -1 -0.5 0.5 May-Sep Precipitation (mm/day)



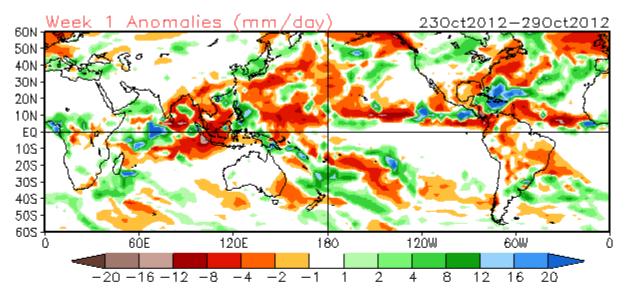
GFS - Week-1

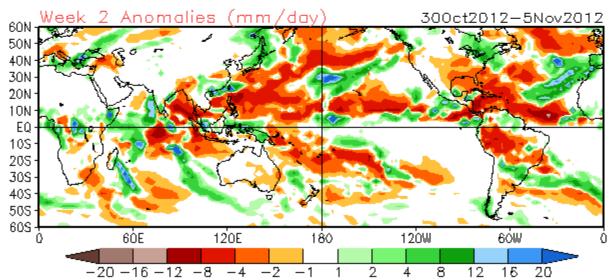


GFS – Week-2

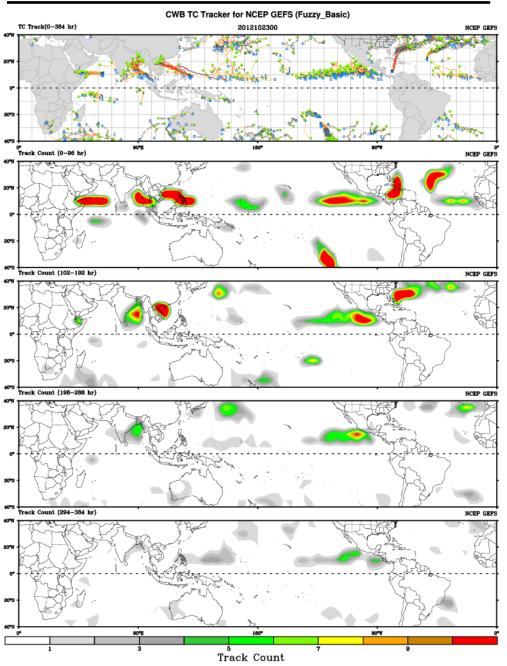
CFSv2 Weeks 1 & 2 Precipitation

16 Member Ensemble Mean Forecast from 220ct2012

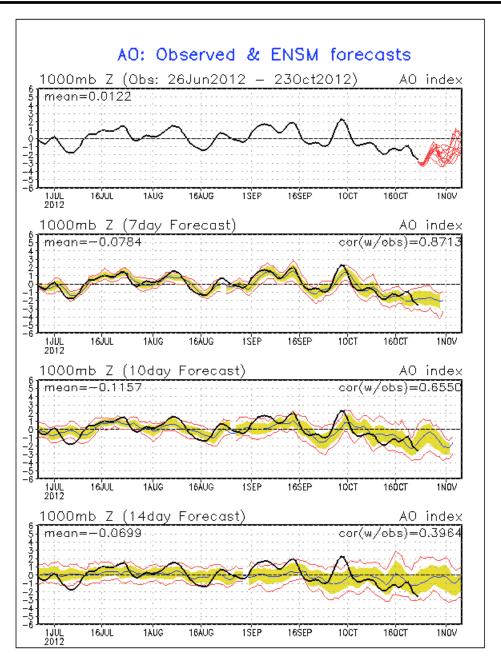




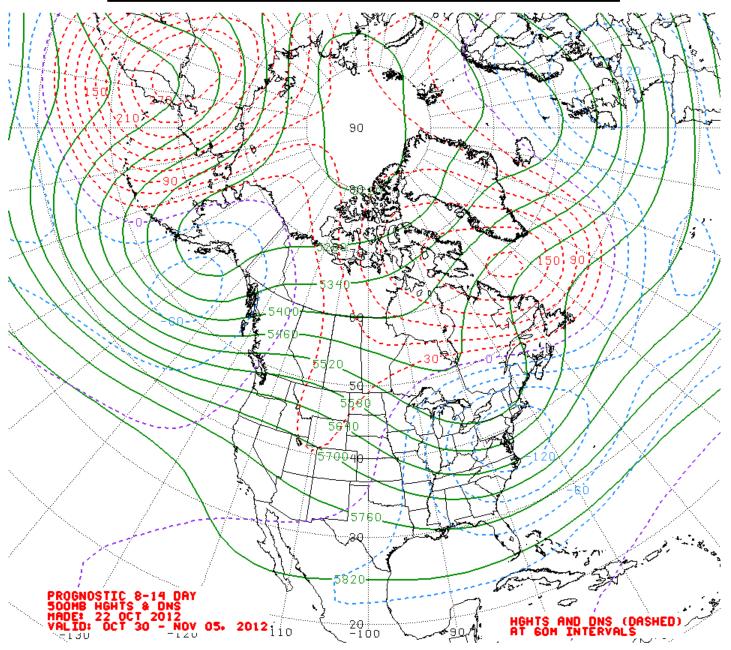
Ensemble GFS TC Guidance



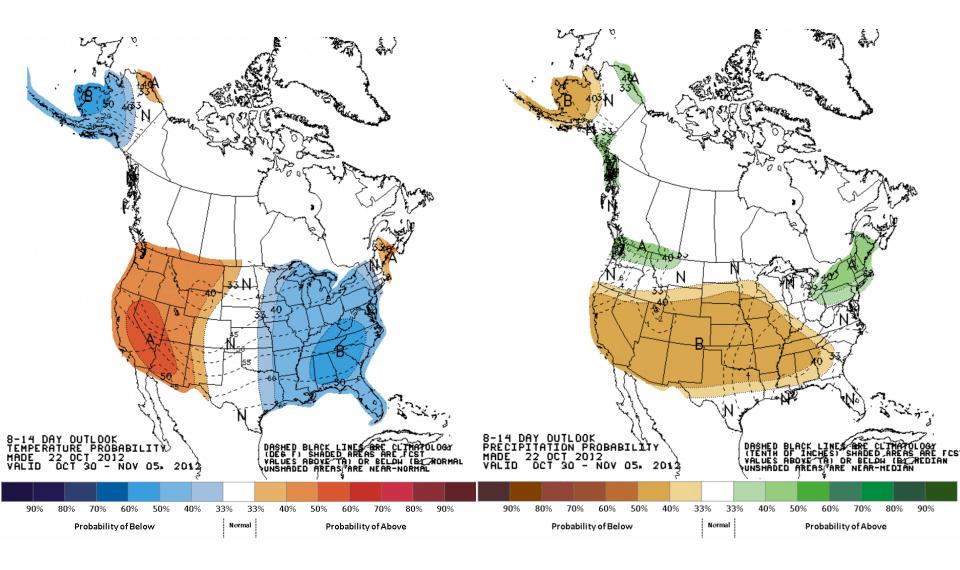
Recent AO Observations and GEFS Forecast



Week 2 500-hPa Manual Chart



Week 2 -- Temperature and Precipitation





Global Tropical Hazards/Benefits Outlook - Climate Prediction Center



Week 1 - Valid: Oct 25, 2012 - Oct 31, 2012





Confidence Produced: 10/23/2012

High Moderate Forecaster: Gottschalck

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