

Global Tropics Hazards And Benefits Outlook

October 15, 2013

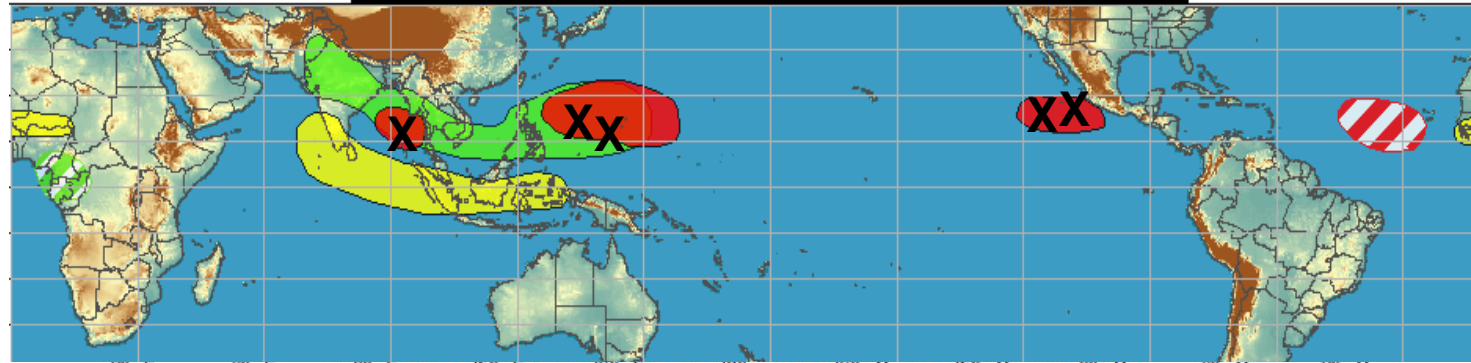
Brad Pugh

Outline

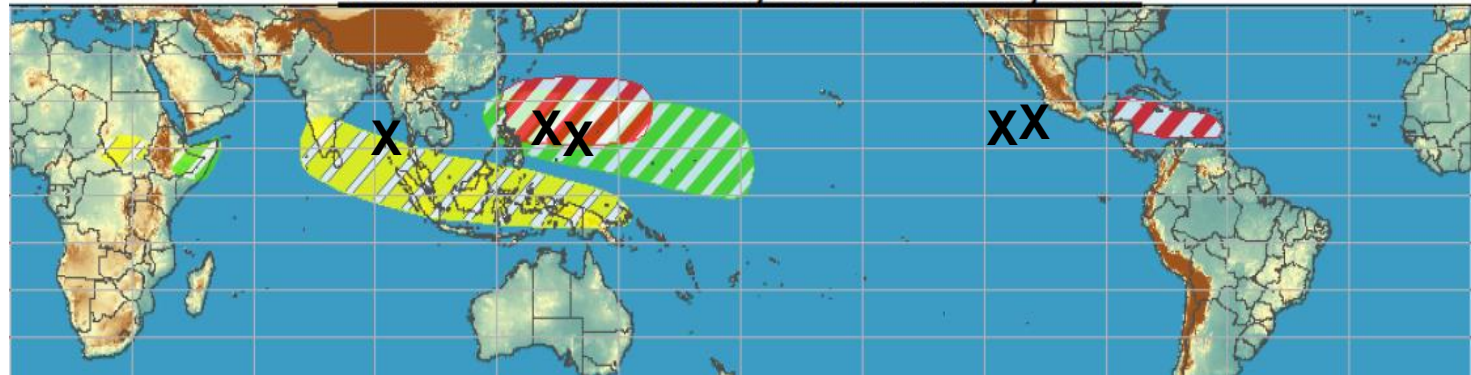
1. Review of Recent Conditions
2. Synopsis of Climate Modes
3. GTH Outlook and Forecast Discussion
4. Connections to U.S. Impacts

Outlook Review

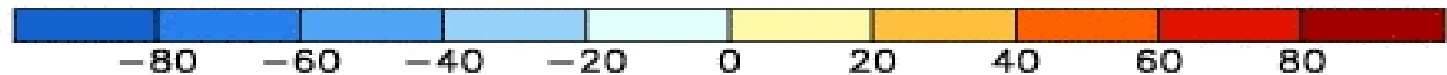
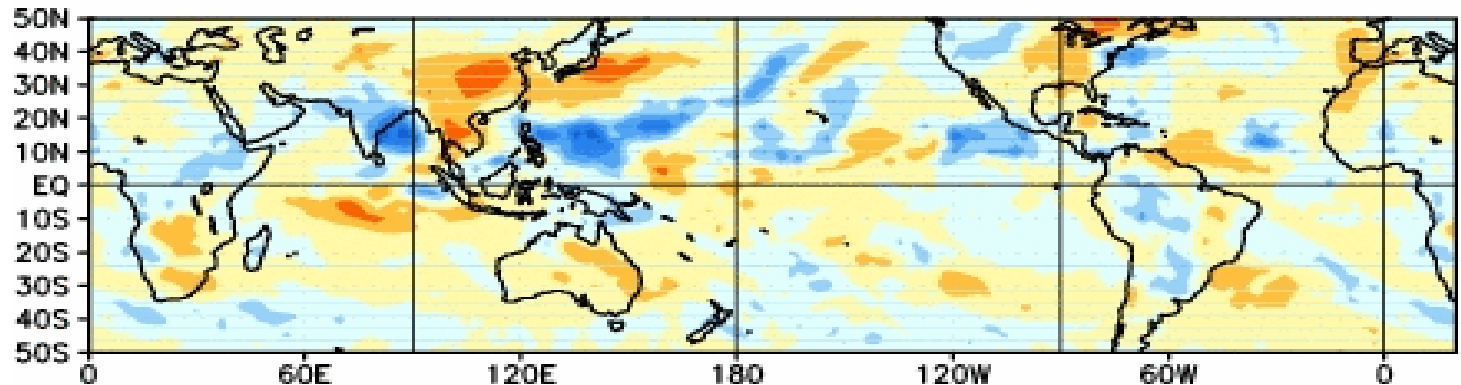
Week 1 - Valid: Oct 09, 2013 - Oct 15, 2013



Week 2 - Valid: Oct 09, 2013 - Oct 15, 2013

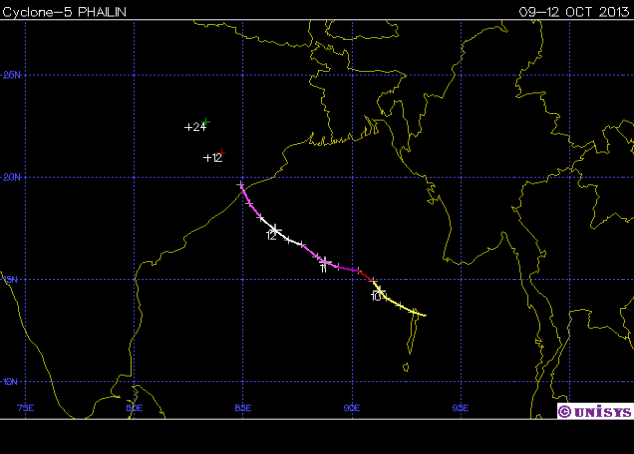


OLR ANOMS Pentad Centered on 10 OCT 2013

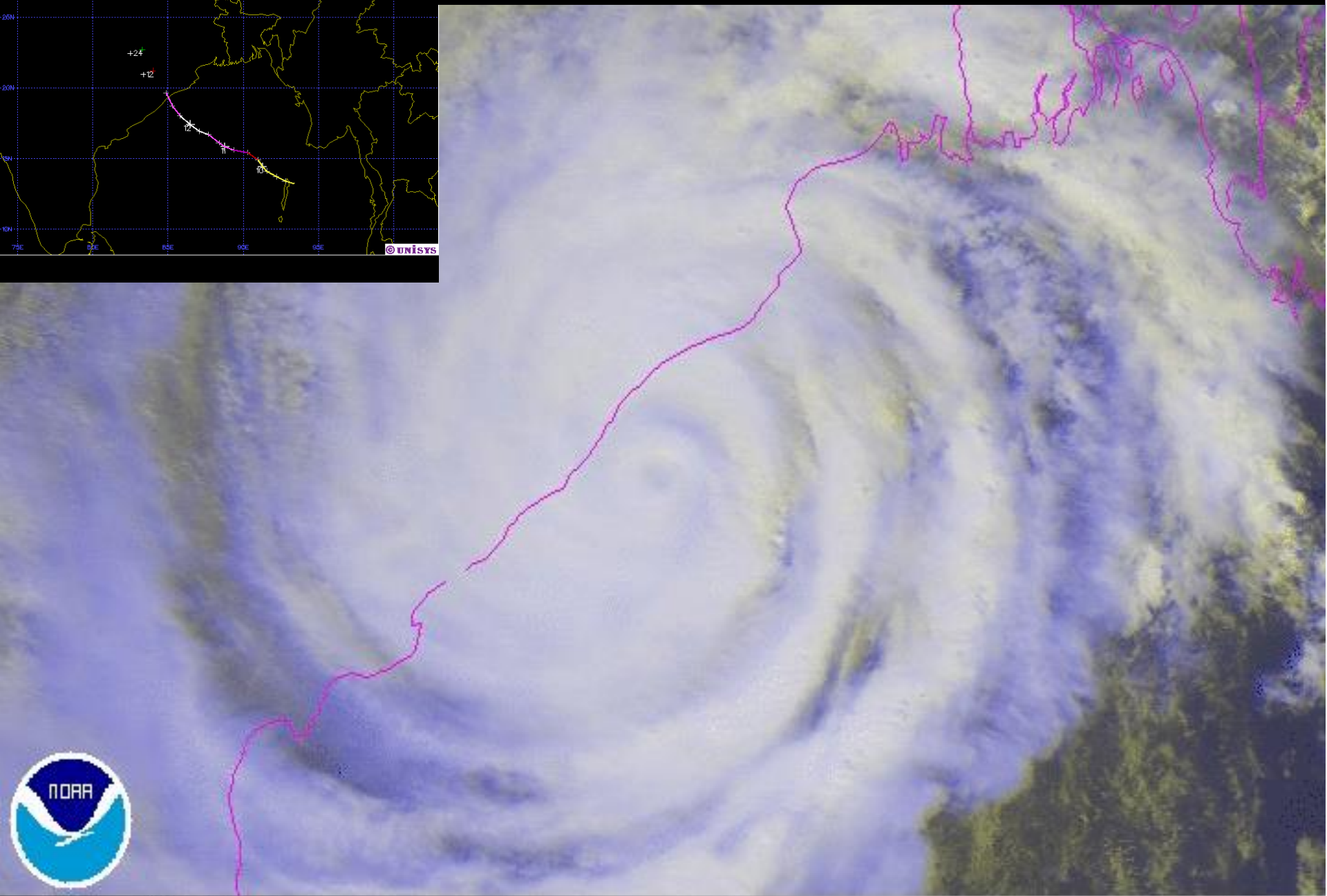


Cool shading
More clouds/rain

Warm shading
Less clouds/rain

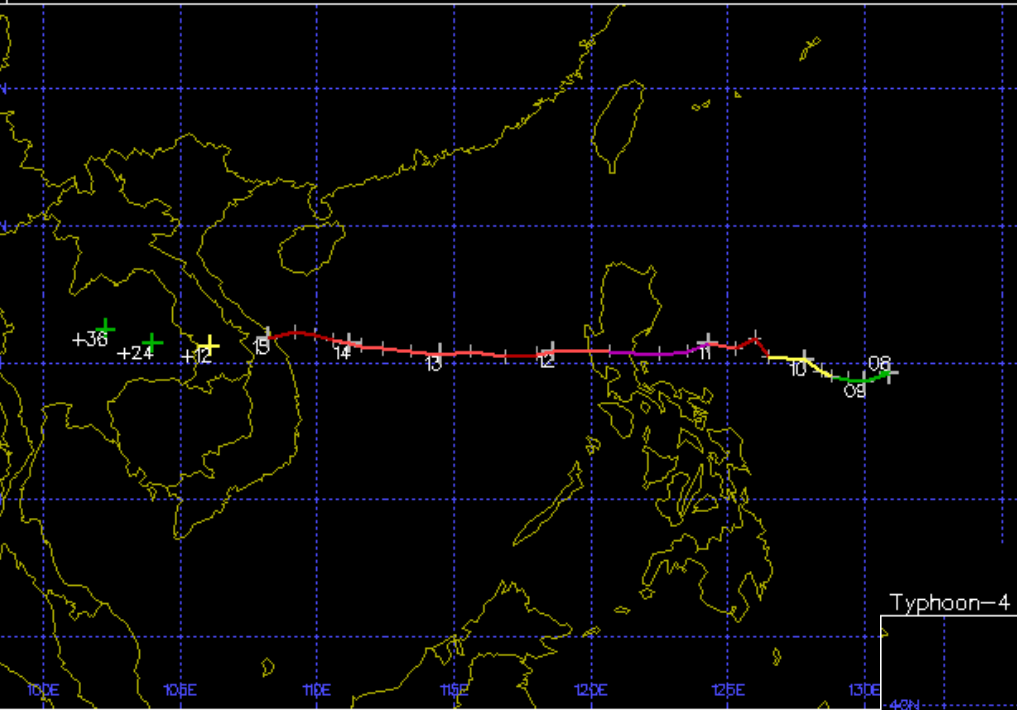


Tropical Cyclone Phailin: Max Winds 140 knots



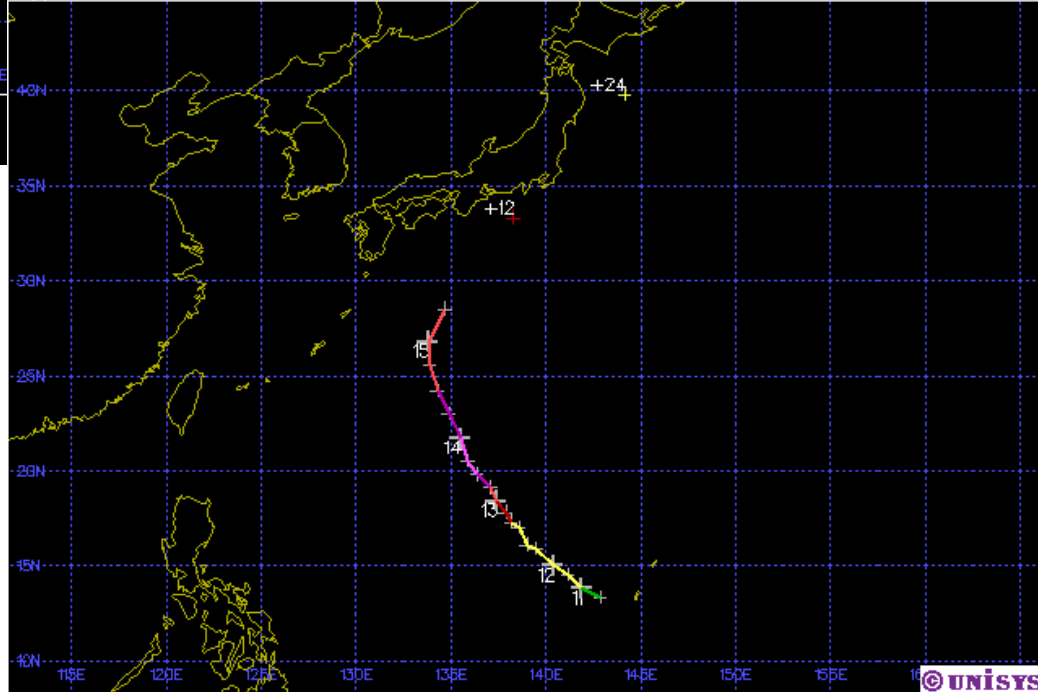
Typhoon-3 NARI

09-15 OCT 2013



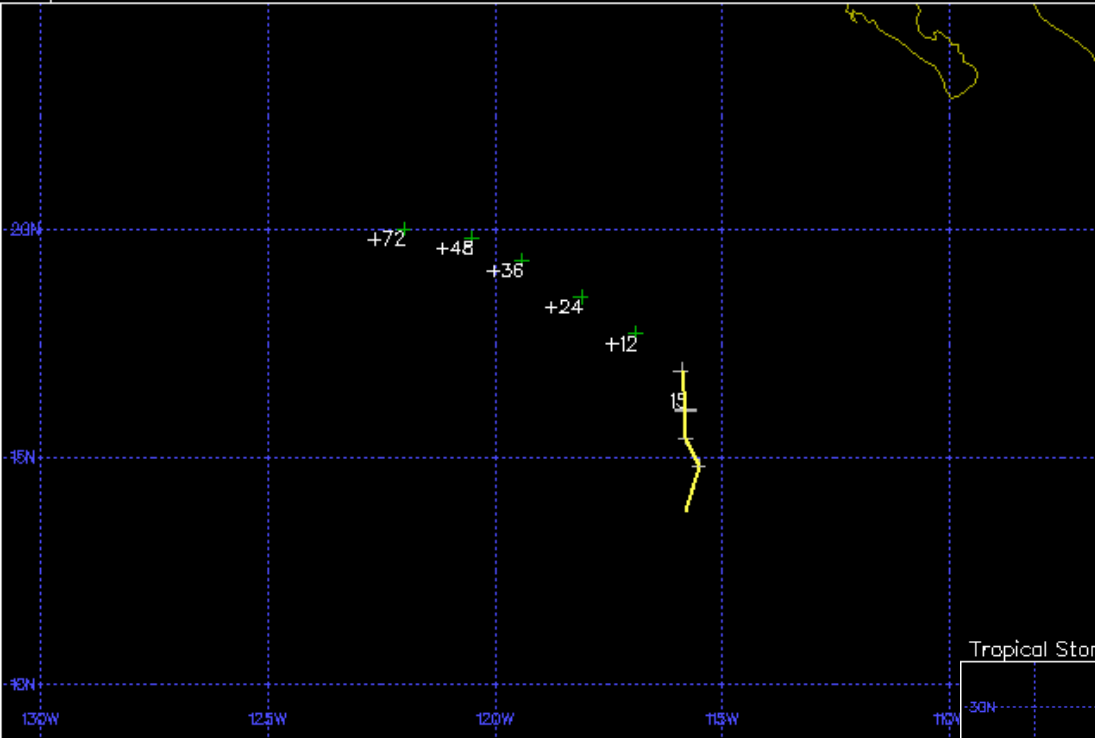
Typhoon-4 WIPHA

10-15 OCT 2013



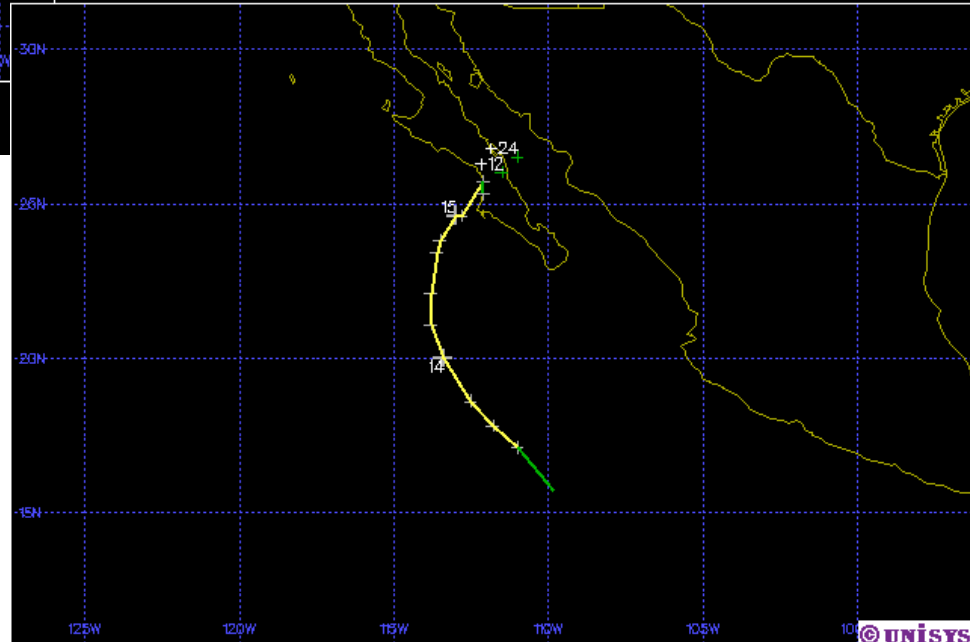
Tropical Storm PRISCILLA

14–15 OCT 2013



Tropical Storm OCTAVE

13–15 OCT 2013



Synopsis of Climate Modes

ENSO:

- ENSO-neutral is favored through the Northern Hemisphere spring 2014.

MJO and other subseasonal tropical variability:

- A weak to moderate MJO continued over the past week with the enhanced phase recently entering the western Hemisphere.
- Most dynamical model MJO index forecasts generally support continued eastward propagation through the western Hemisphere (Phases 8 and 1).

Extratropics:

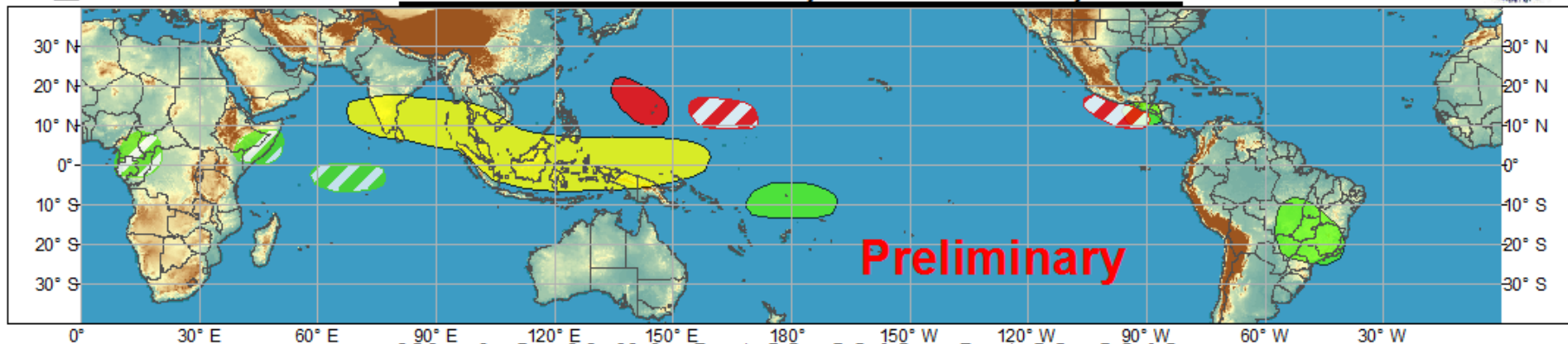
- Recurvature of west Pacific typhoons contributing to a highly amplified flow across the north Pacific and North America during the next two to three weeks.
- Northern Hemisphere longwave pattern is expected to become stable.



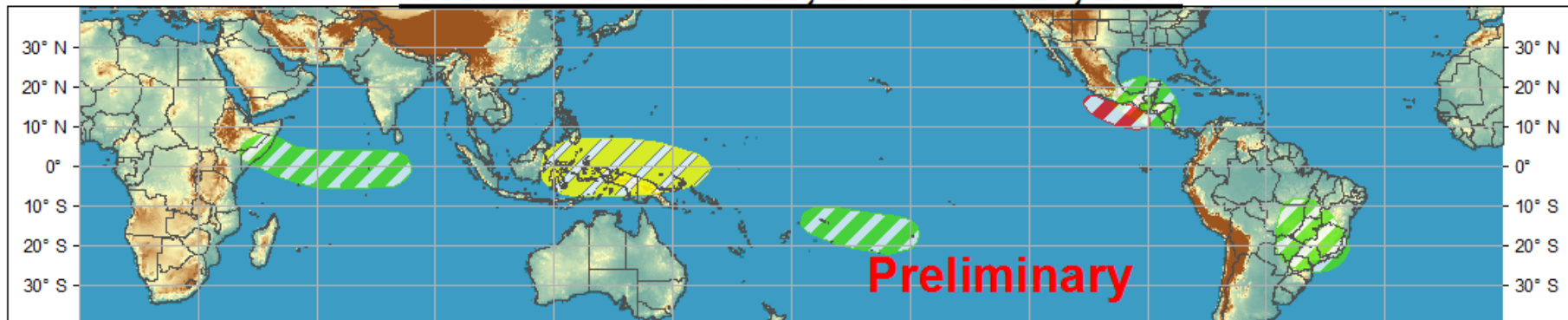
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center













Week 1 - Valid: Oct 16, 2013 - Oct 22, 2013



Week 2 - Valid: Oct 23, 2013 - Oct 29, 2013



Confidence
High Moderate

- | | | |
|-----------------------------------|---|--|
| 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. |

Produced: 10/15/2013

Forecaster: Pugh

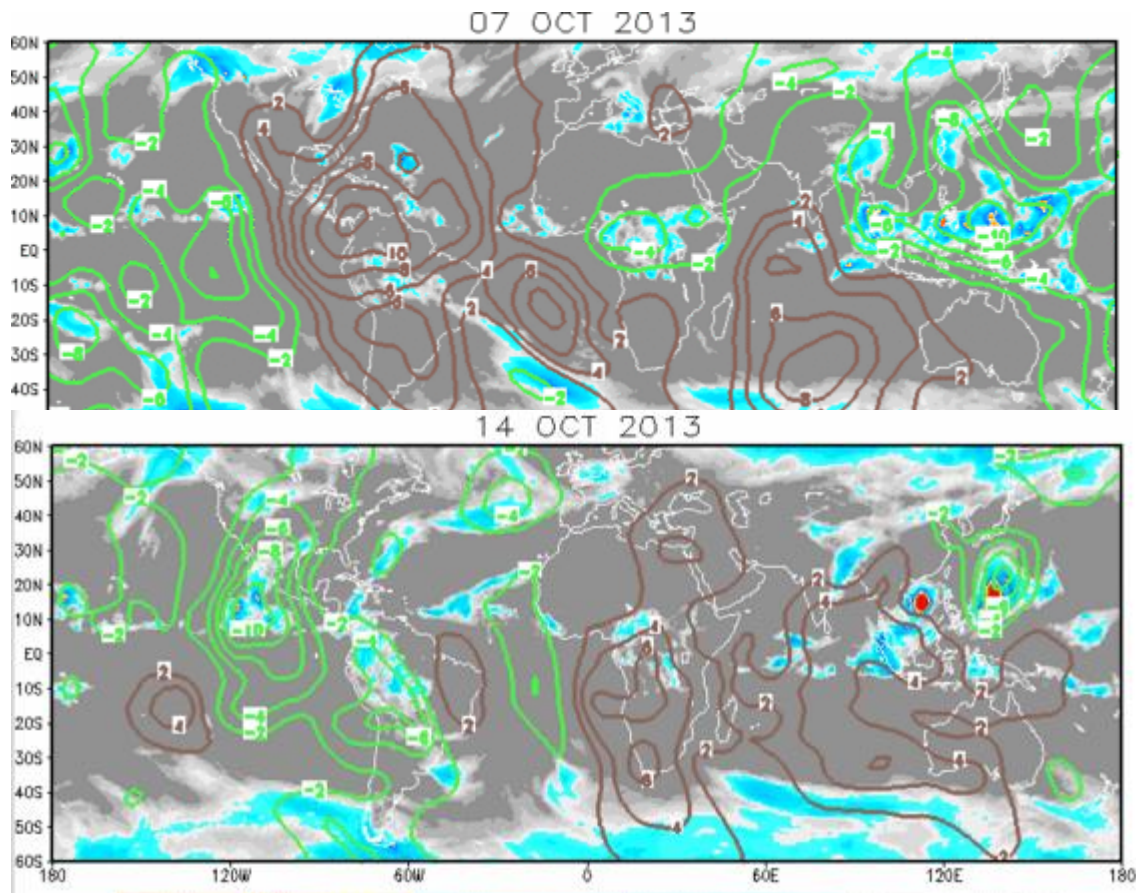
Product is updated once per week. The product targets broad scale conditions integrated over a 7-day period for US interests only. Consult your local responsible forecast agency.



IR Satellite & 200-hpa Velocity Potential Anomalies

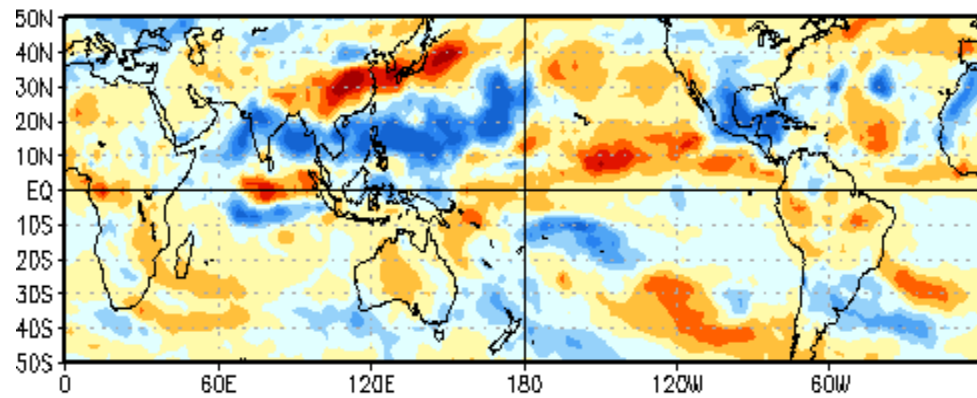
Green: Enhanced Divergence Brown: Enhanced Convergence

Eastward
Propagation
During the
Past Week

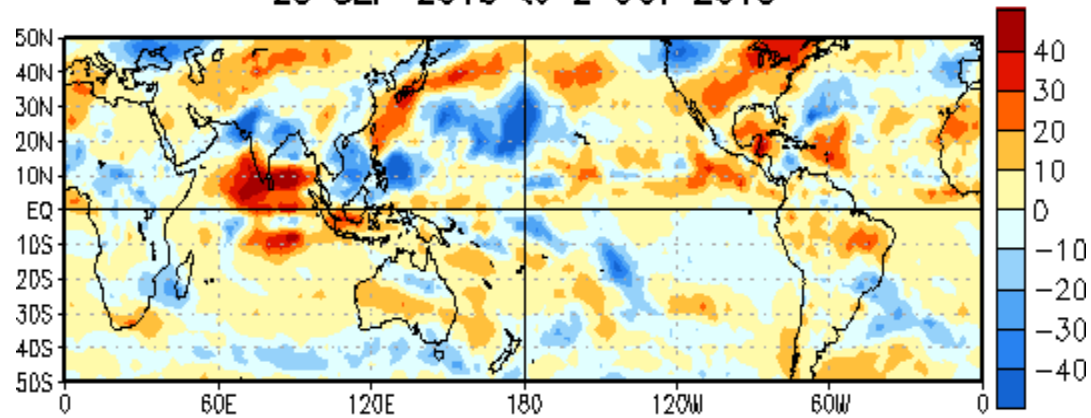


OLR Anomalies

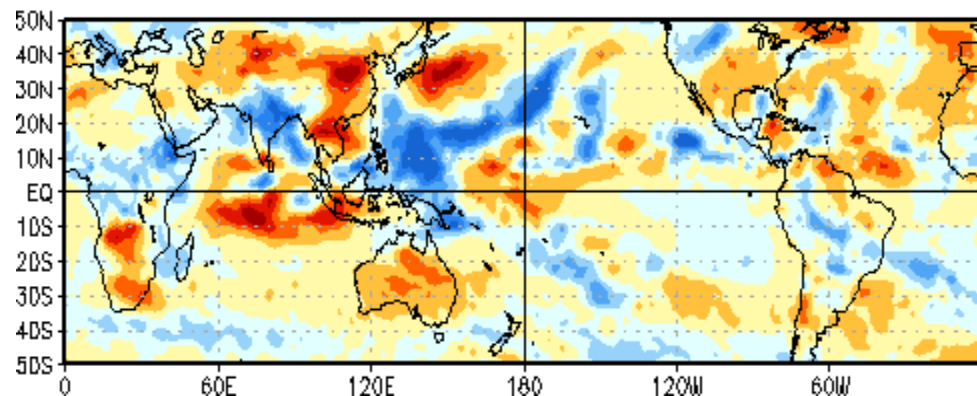
13 SEP 2013 to 22 SEP 2013



23 SEP 2013 to 2 OCT 2013

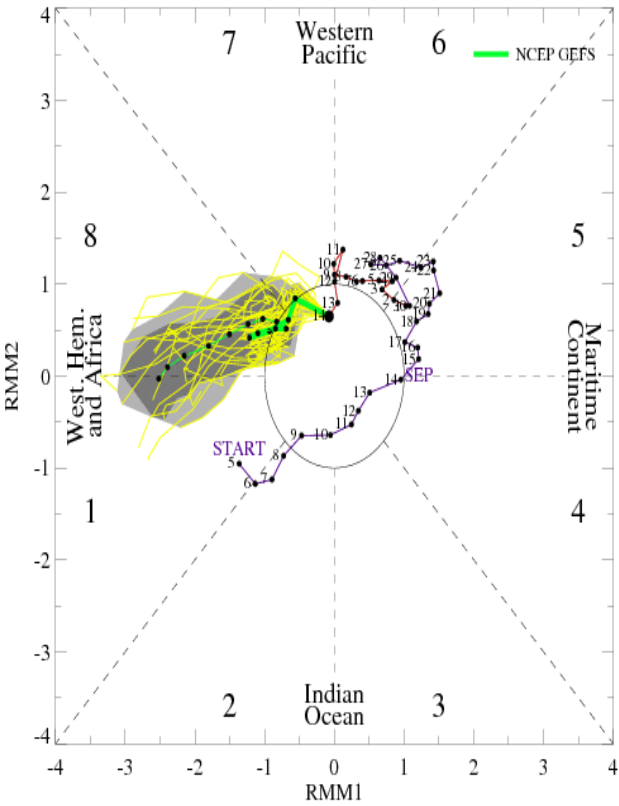


3 OCT 2013 to 12 OCT 2013



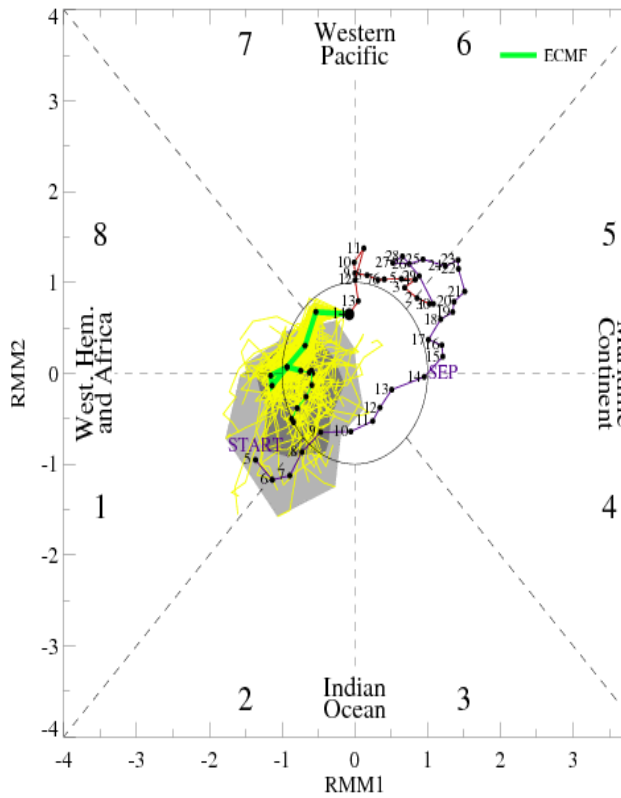
MJO Observation/Forecast

MJO Index Forecast for 15Oct2013-29Oct2013



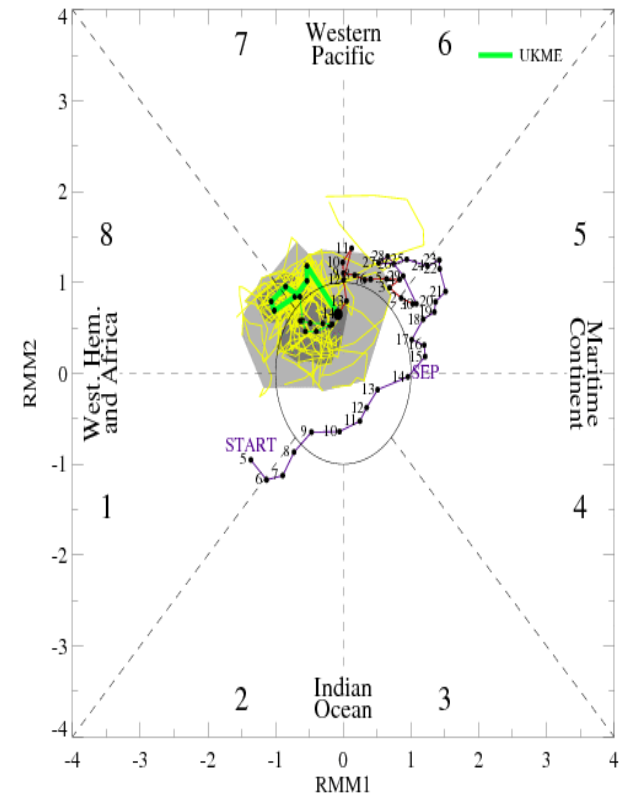
GFS

MJO Index Forecast for 15Oct2013-29Oct2013



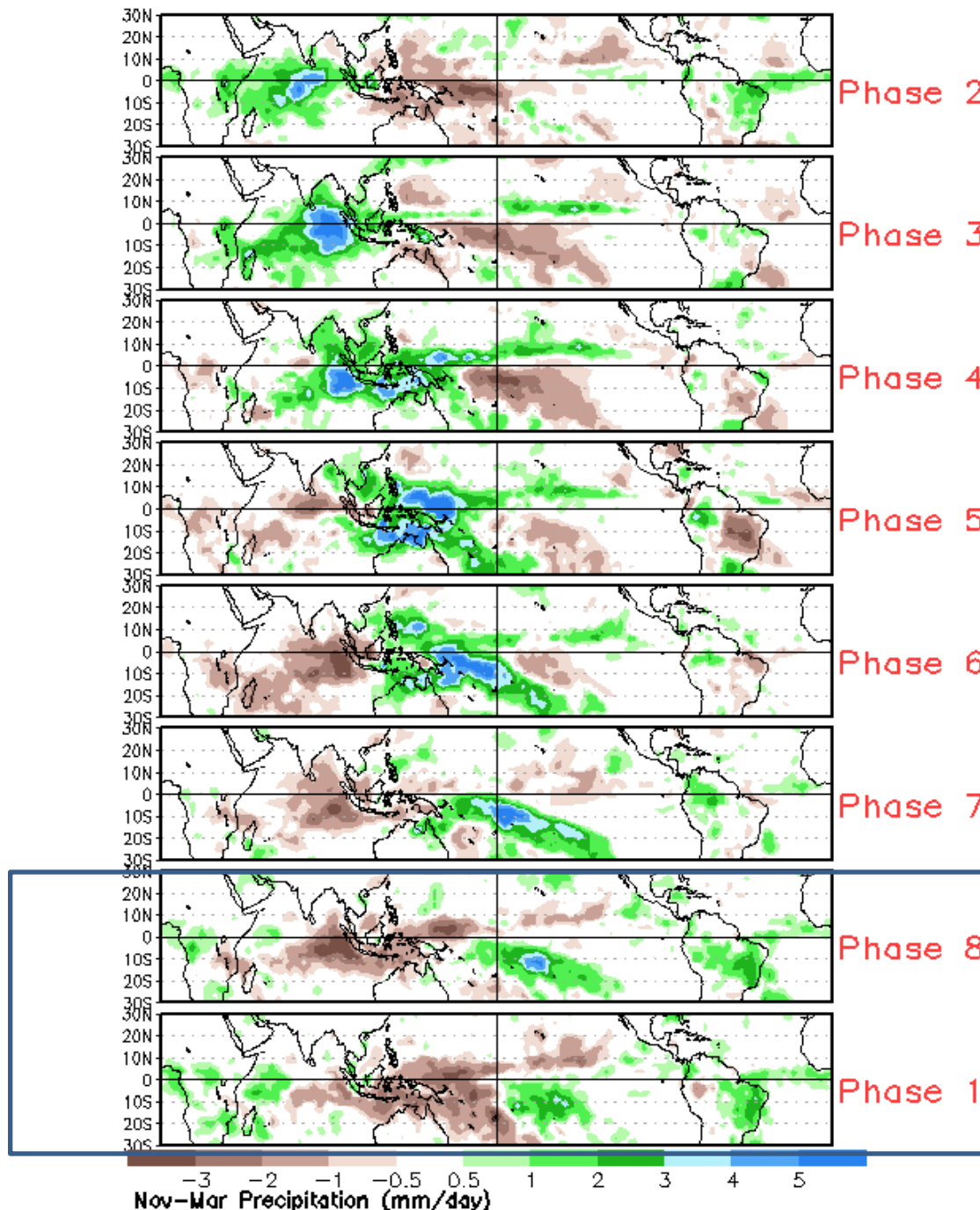
ECMWF

MJO Index Forecast for 15Oct2013-29Oct2013



UKMET

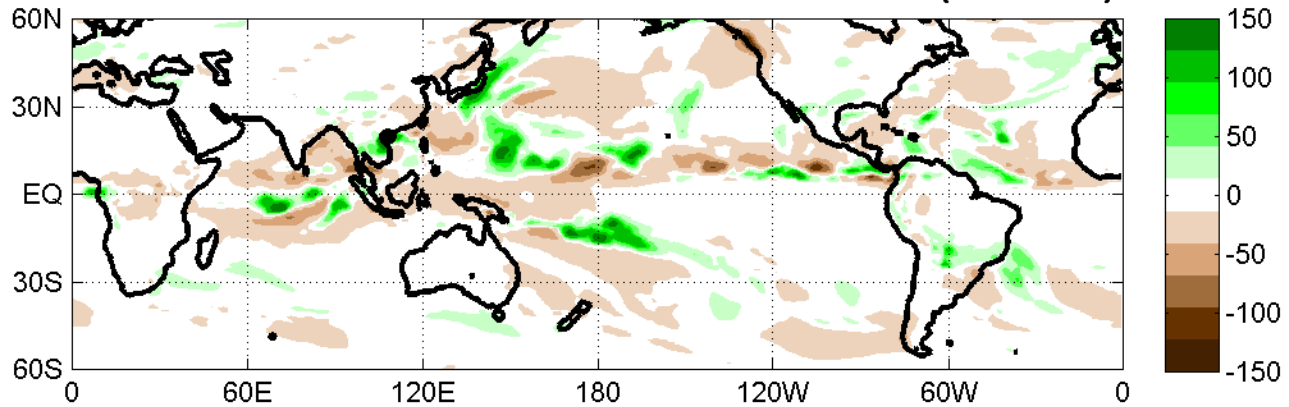
Average Conditions when the MJO is present (Nov-Mar)



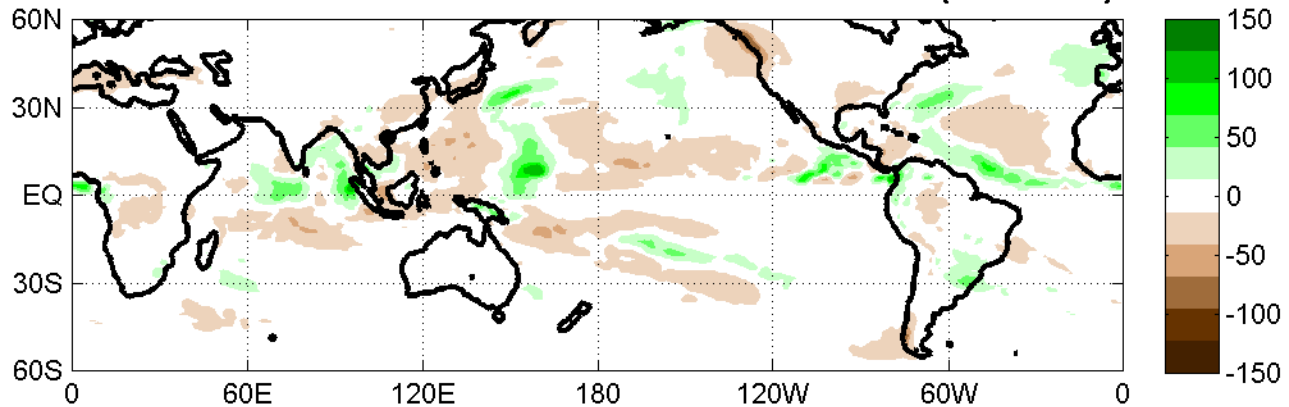
CAVEAT:



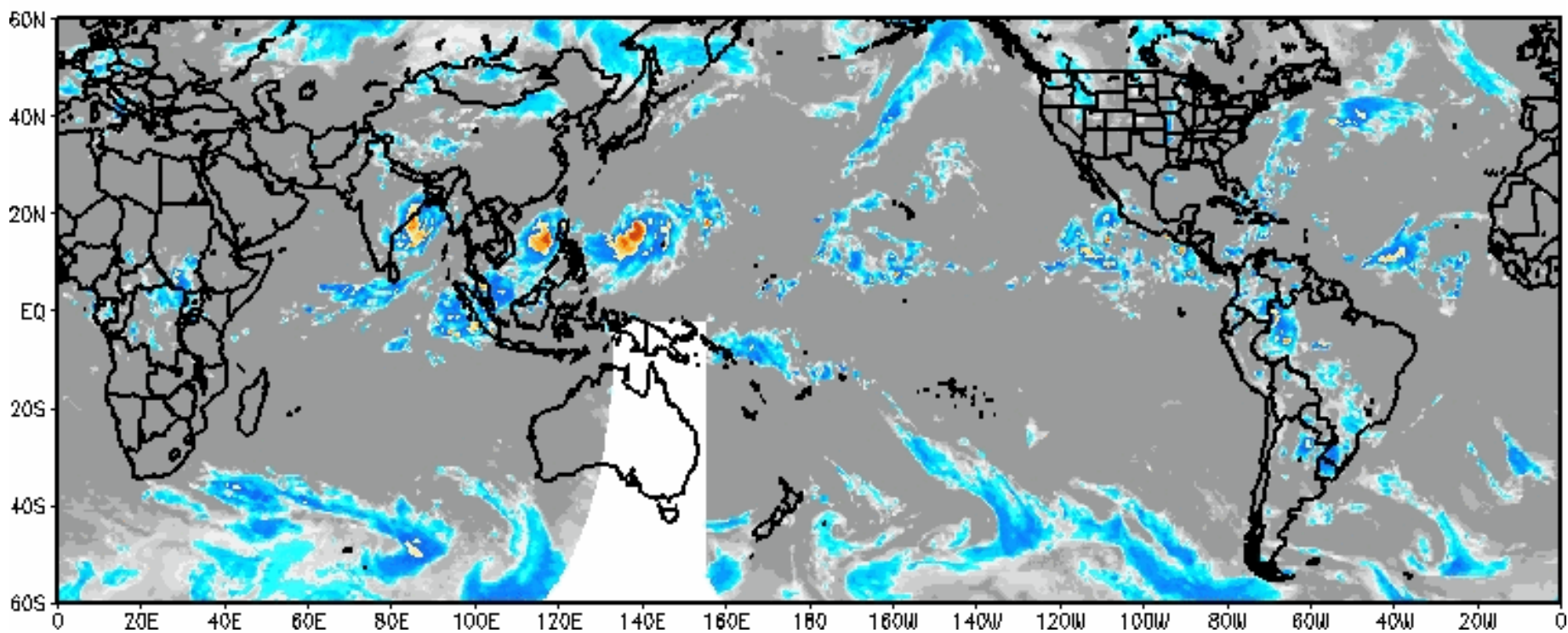
CFS: Anom. PREC Week1: 15-Oct-2013 to 21-Oct-2013 (mm/week)



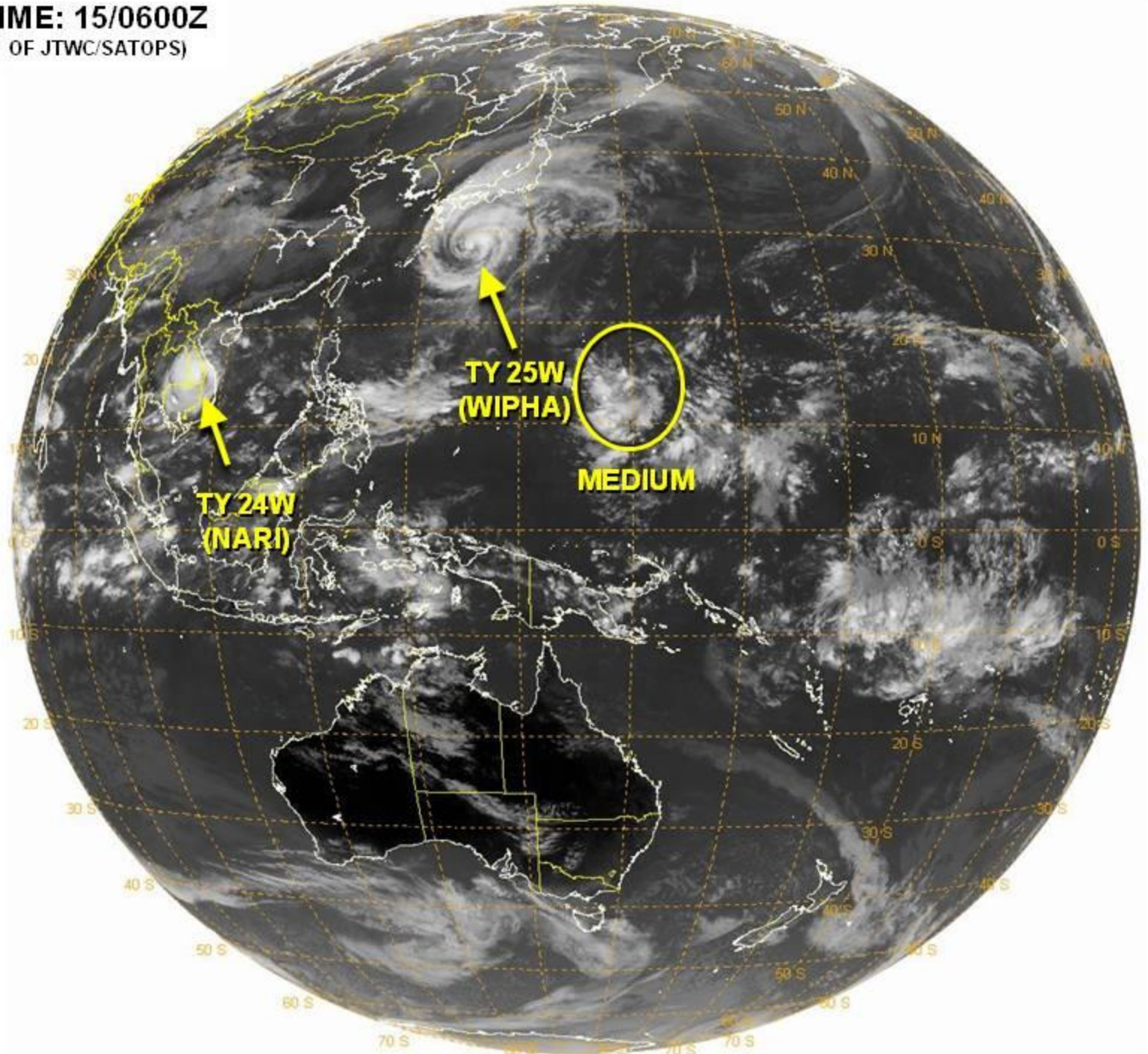
CFS: Anom. PREC Week2: 22-Oct-2013 to 28-Oct-2013 (mm/week)

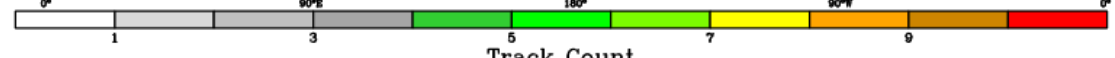
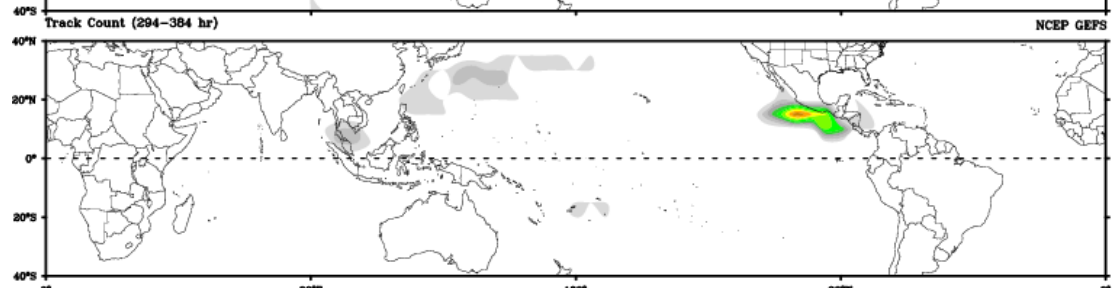
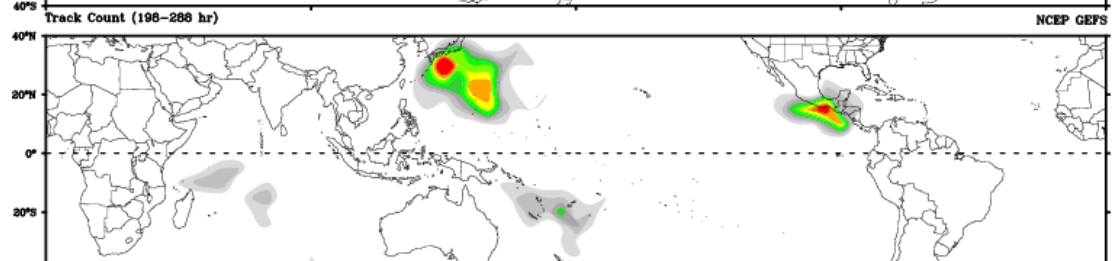
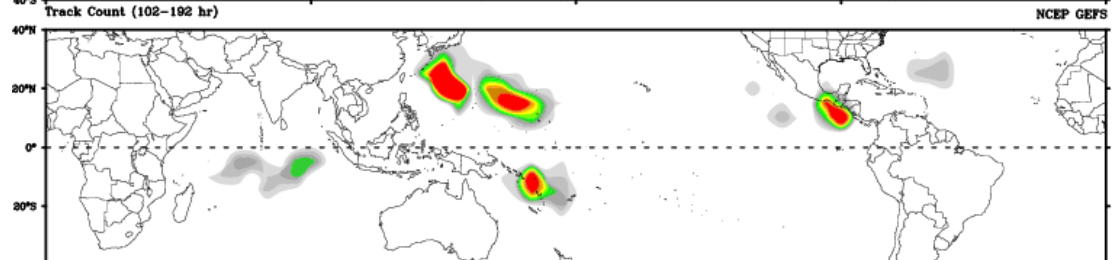
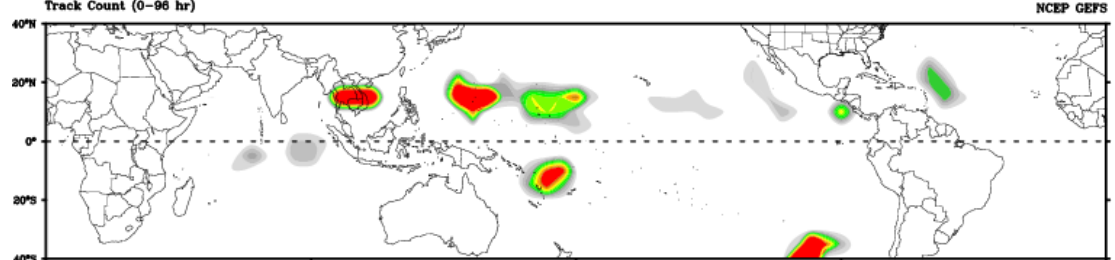
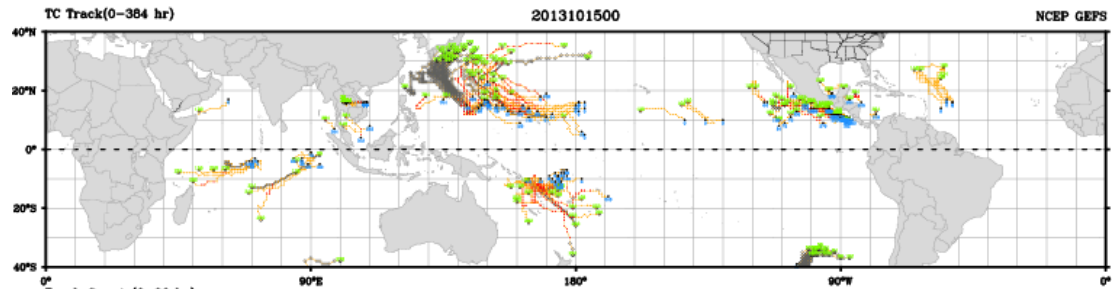


IR Temperatures 0900 UTC 12 OCT 2013



VALID TIME: 15/0600Z
(PRODUCT OF JTWC/SATOPS)

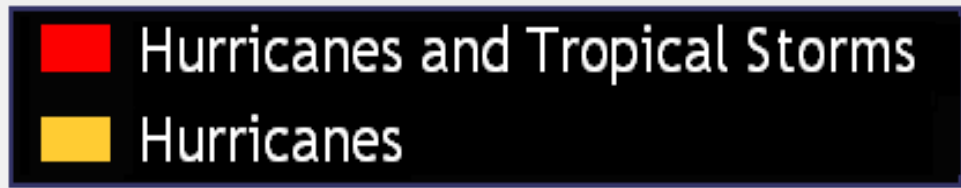
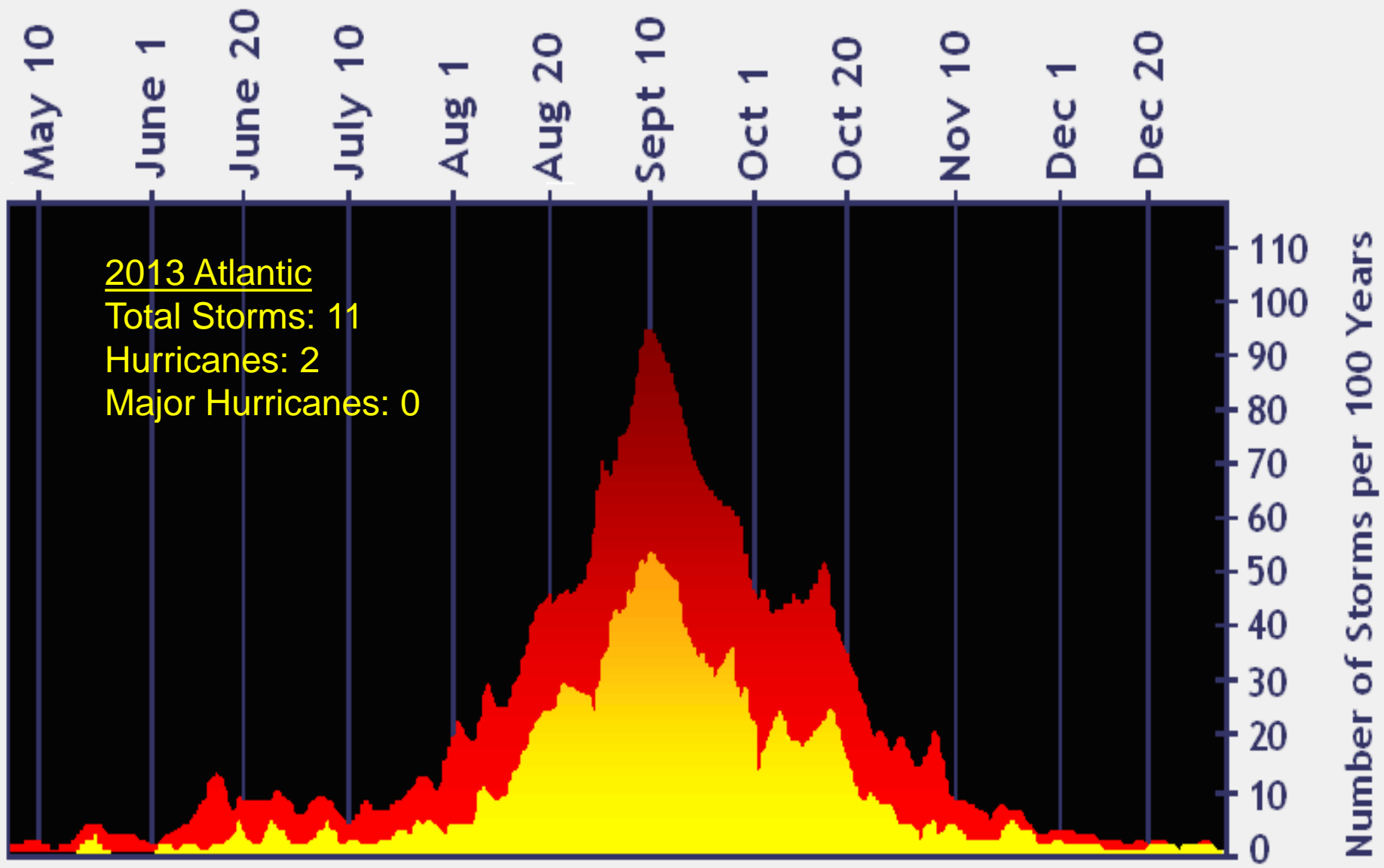




Days 1-4

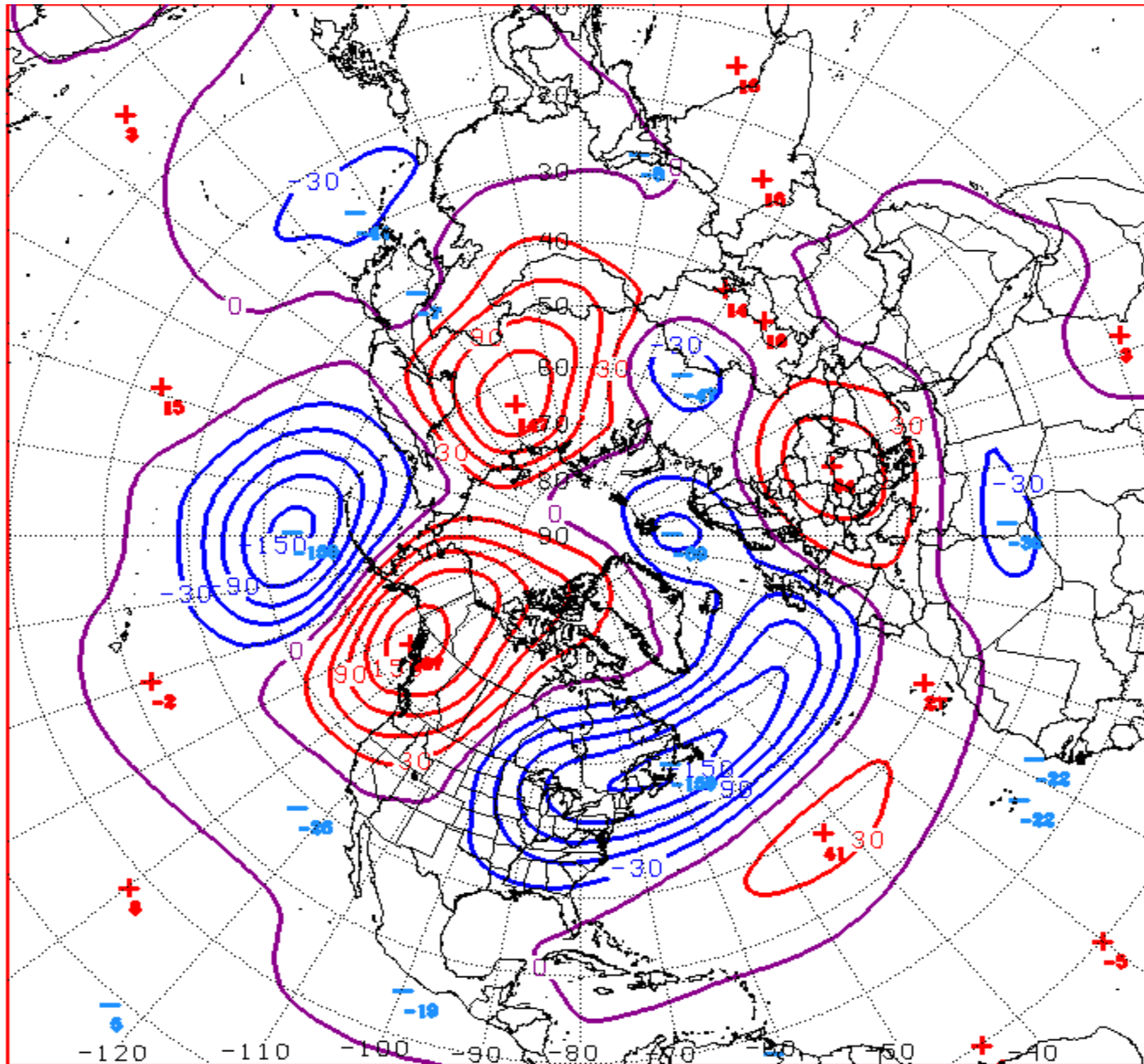
Day 5-8

Day 9-12



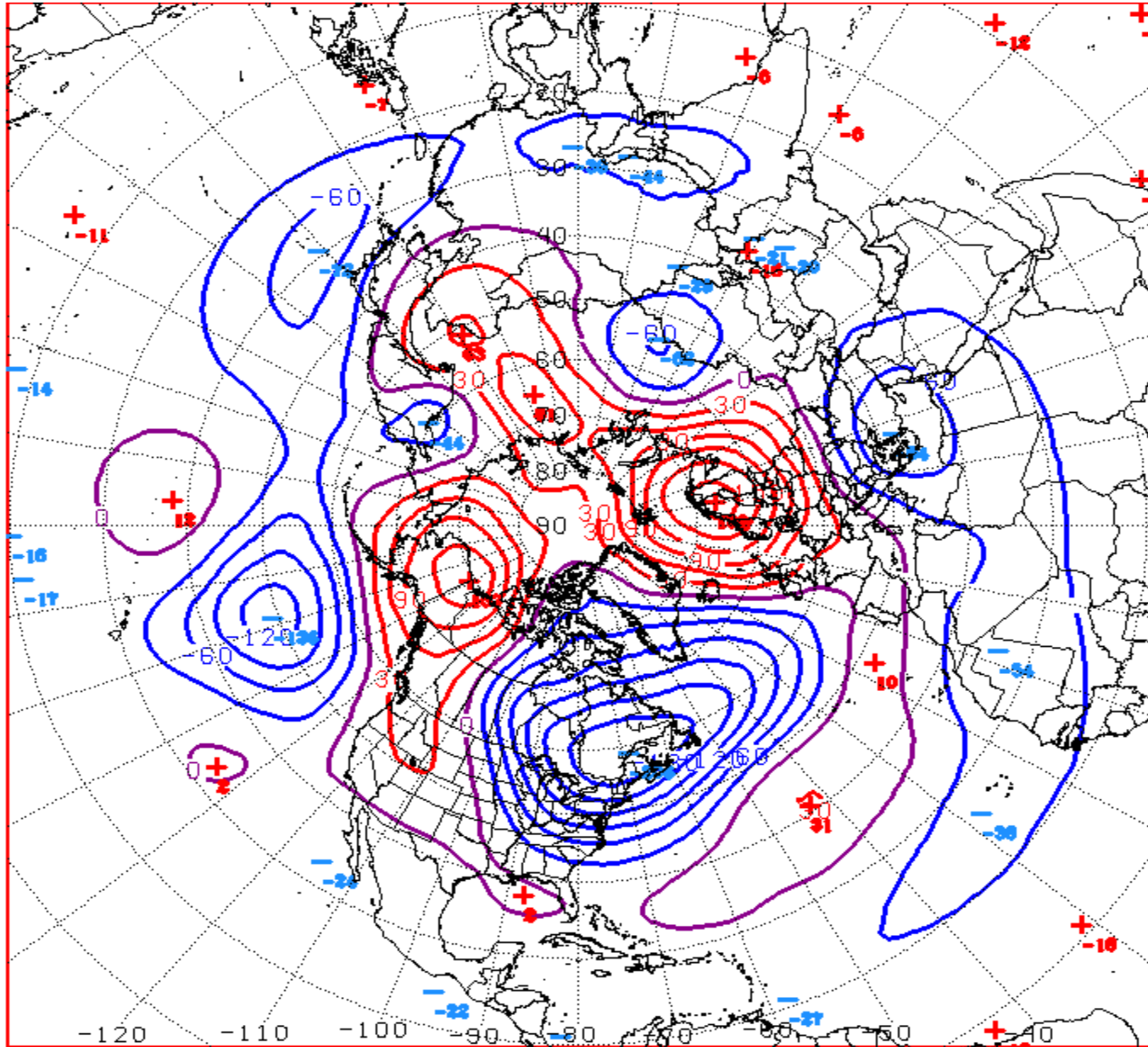
Extratropics

Week-2 0Z GFS Ensemble Mean



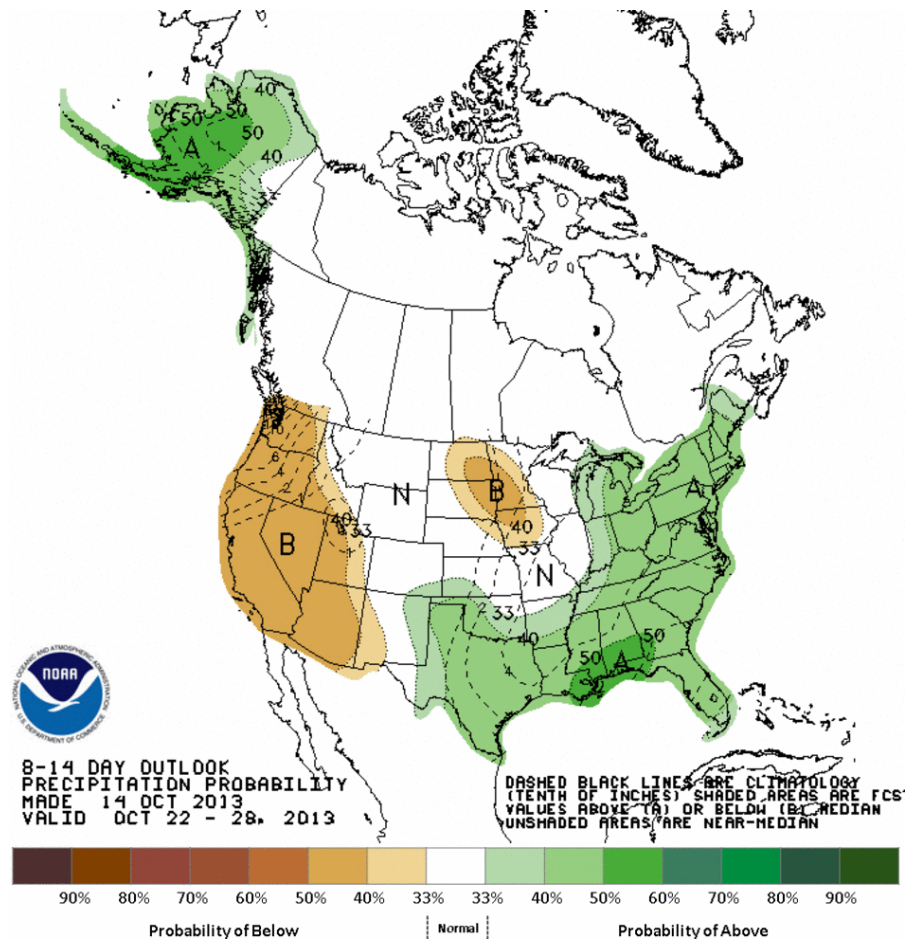
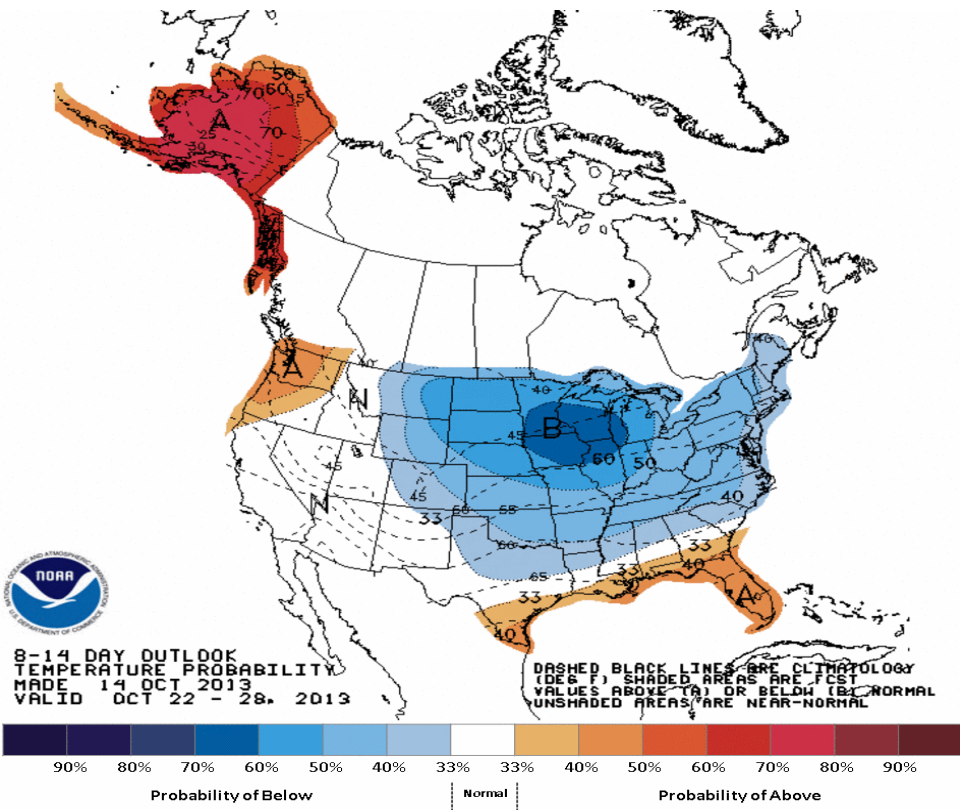
D+11 500 MB ANOMALIES FROM 00Z ENSM
CPC MAP MADE OCT 15 2013 0701 UTC CNTD OCT 26 2013

Week-3 CFS



WEEK 3 CFS FORECAST ANOMS
CPC MAP MADE OCT 15 2013 CNTD NOV 02 2013

Week 2 – Temperature and Precipitation

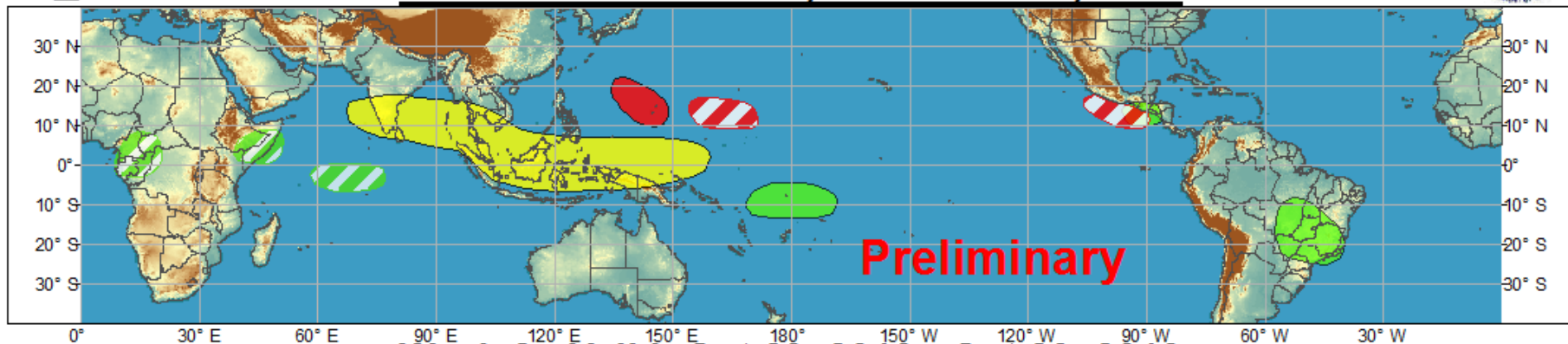




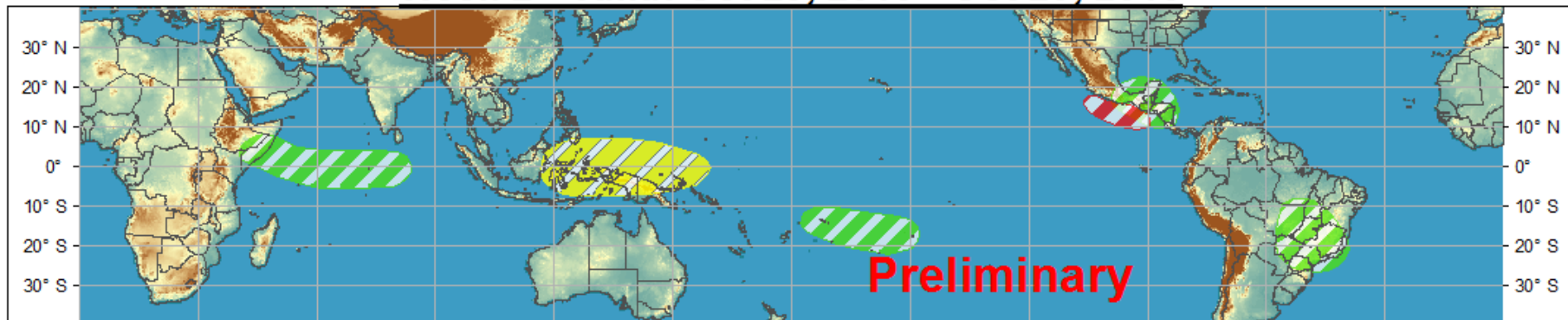
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center













Week 1 - Valid: Oct 16, 2013 - Oct 22, 2013



Week 2 - Valid: Oct 23, 2013 - Oct 29, 2013



Confidence
High Moderate

- | | | |
|-----------------------------------|---|--|
| 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. |

Produced: 10/15/2013

Forecaster: Pugh

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.

