

Global Tropics Hazards And Benefits Outlook

November 26, 2013

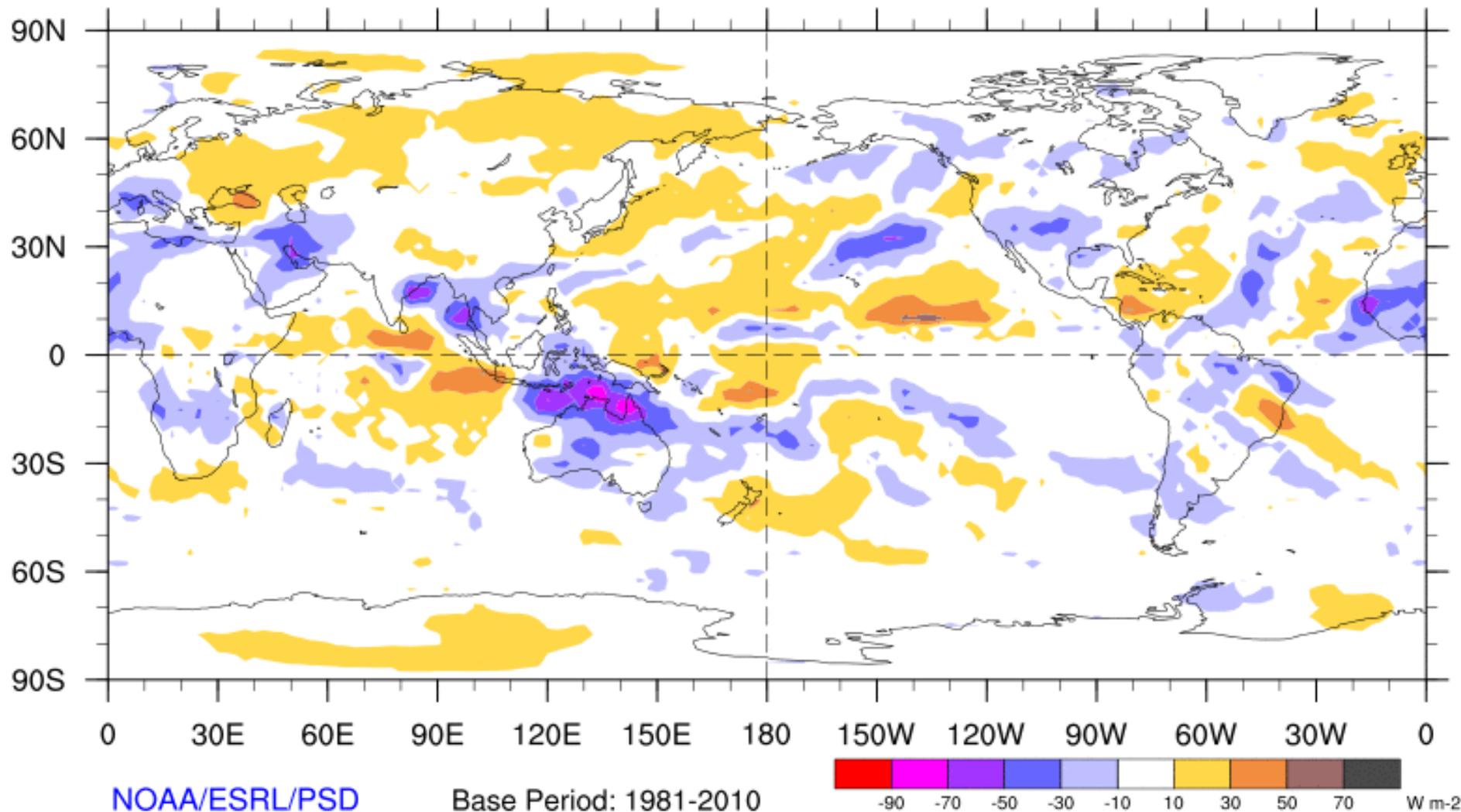
Adam Allgood

Outline

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

7-Day Average OLR Anomaly

2013/11/18 - 2013/11/24



Outlook Review

Cyclone Lehar (23 November)

Tropical Storm Alessia (22 November)

Week 1 - Valid: Nov 20, 2013 - Nov 26, 2013

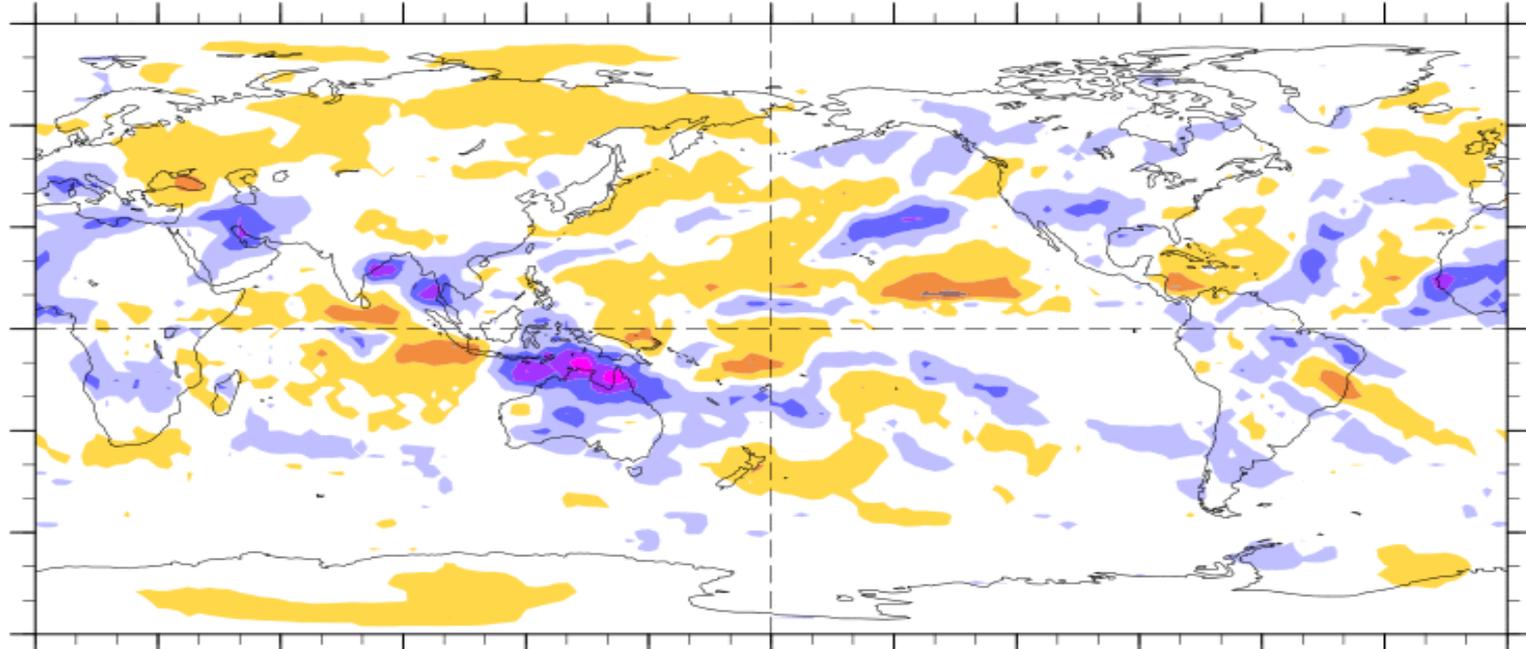


Week 2 - Valid: Nov 20, 2013 - Nov 26, 2013



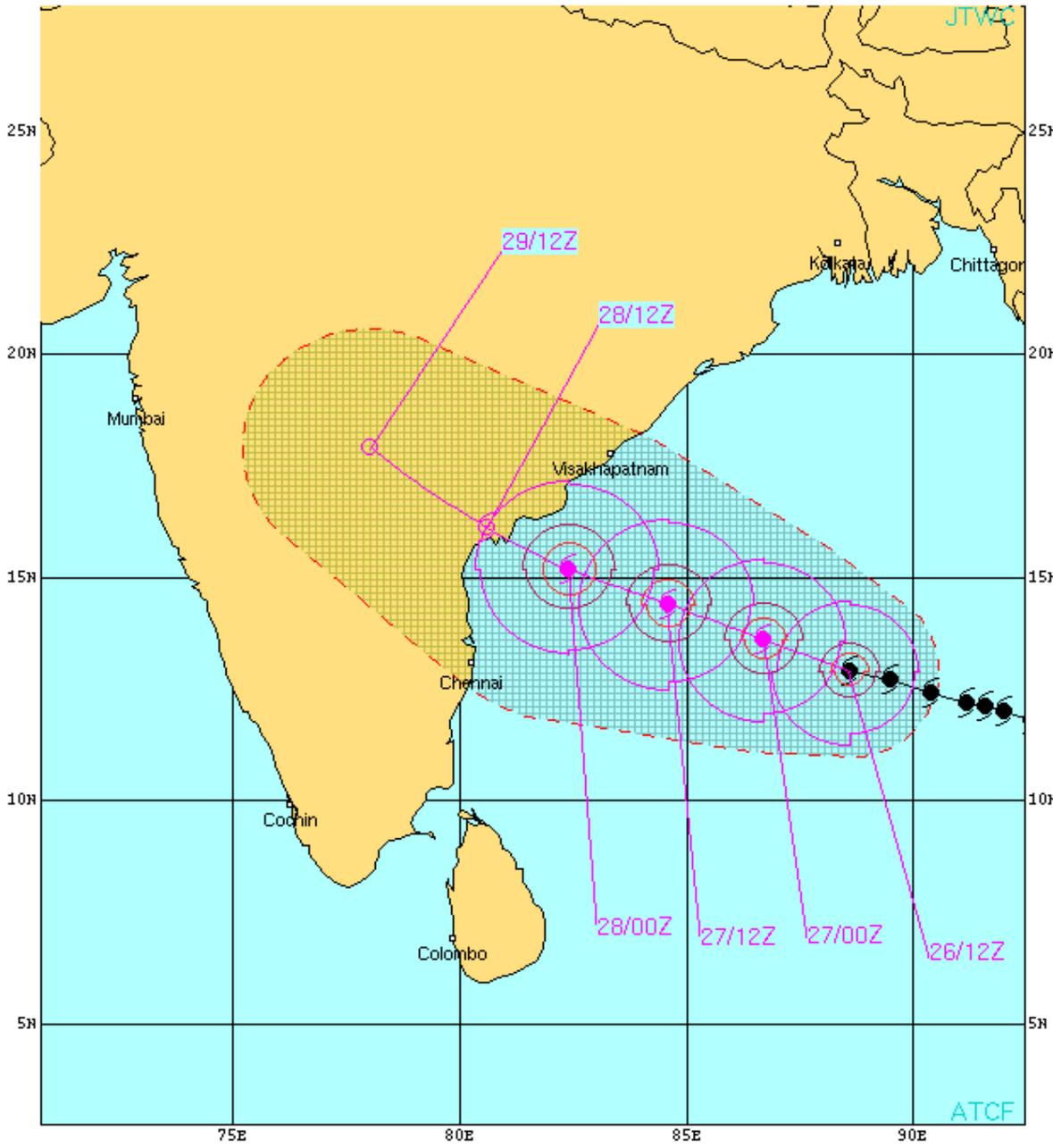
7-Day Average OLR Anomaly

2013/11/18 - 2013/11/24



Cool shading
More clouds/rain

Warm shading
Less clouds/rain



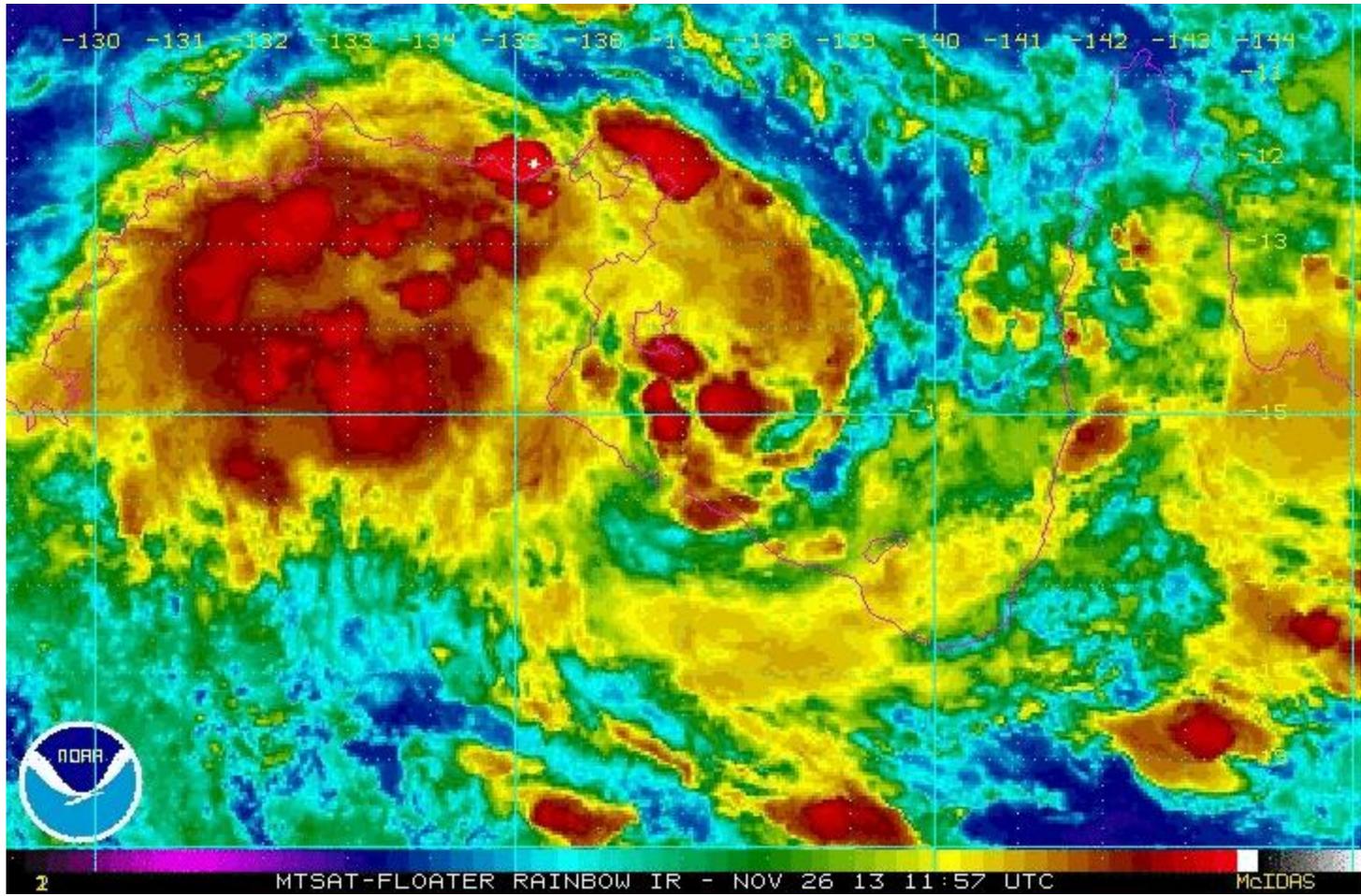
TROPICAL CYCLONE 05B (LEHAR) WARNING #14
 WT1031 PGTW 261500
 261200Z POSIT: NEAR 12.9N 88.6E
 MOVING 285 DEGREES TRUE AT 09 KNOTS
 MAXIMUM SIGNIFICANT WAVE HEIGHT: 27 FEET
 26/12Z, WINDS 075 KTS, GUSTS TO 090 KTS
 27/00Z, WINDS 080 KTS, GUSTS TO 100 KTS
 27/12Z, WINDS 085 KTS, GUSTS TO 105 KTS
 28/00Z, WINDS 090 KTS, GUSTS TO 110 KTS
 28/12Z, WINDS 060 KTS, GUSTS TO 075 KTS
 29/12Z, WINDS 025 KTS, GUSTS TO 035 KTS

CPA TO:	NM	DTG
CHENNAI	166	28/05Z

BEARING AND DISTANCE	DIR	DIST (NM)	TAU (HRS)
CHENNAI	072	262	24

○ LESS THAN 34 KNOTS
 ⊗ 34-63 KNOTS
 ● MORE THAN 63 KNOTS
 PAST 6 HOURLY CYCLONE POSITS IN BLACK
 FORECAST CYCLONE POSITS IN COLOR





Synopsis of Climate Modes

ENSO:

- ENSO-neutral conditions are favored to continue through Northern Hemisphere spring 2013

MJO and other subseasonal tropical variability:

- The MJO remained incoherent during the previous week, with influence from other types of coherent tropical subseasonal variability dominating the anomalous convection and circulation pattern.
- Dynamical model MJO index forecasts indicate little signal over the next several days. The majority of dynamical forecasts indicate increasing agreement for the potential for an eastward propagating signal emerging over the Indian Ocean during Week-2.
- It is too early to conclude that this potential signal will emerge as a longer lived, more robust MJO.

Extratropics:

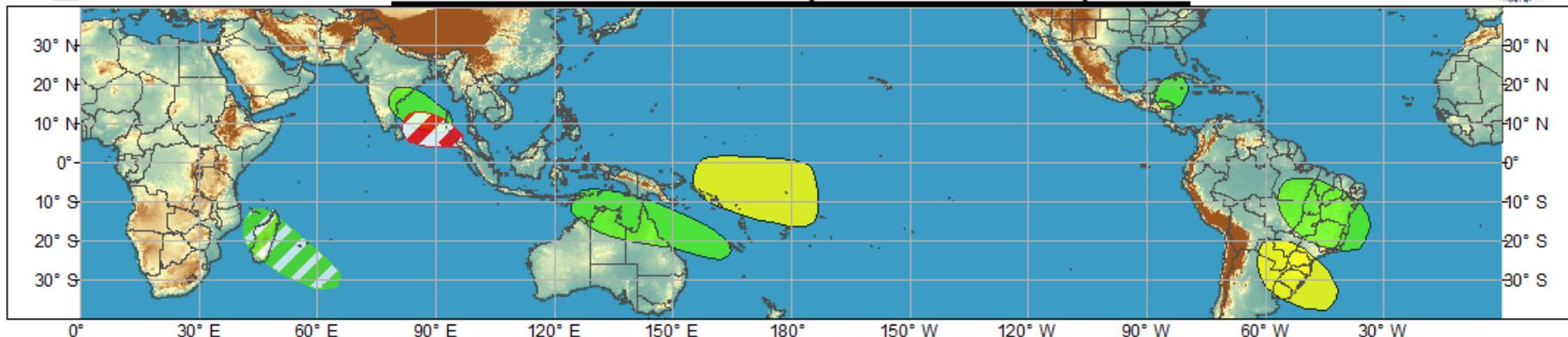
- Little tropical to extratropical impacts can be discerned from the current pattern. A significant outbreak of arctic air is anticipated over the north central U.S. during early December.



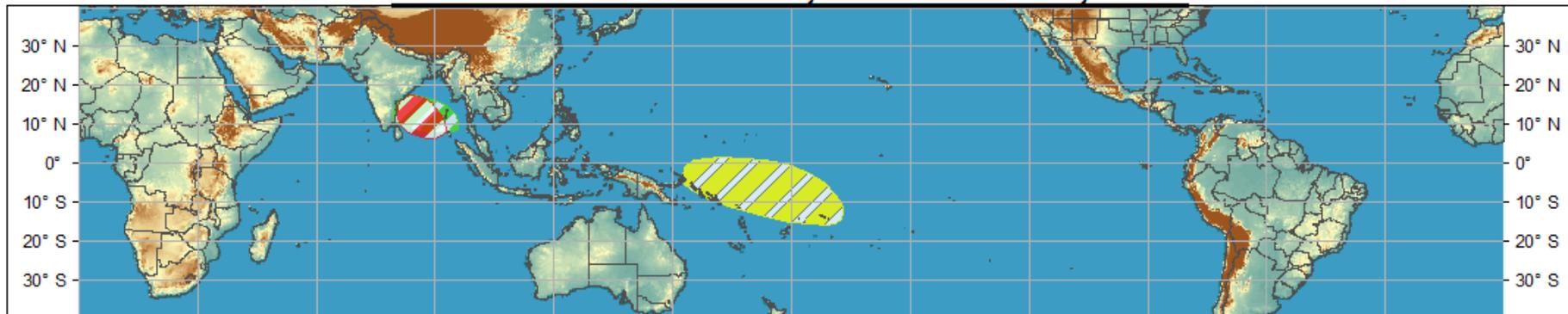
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center



Week 1 - Valid: Nov 27, 2013 - Dec 03, 2013



Week 2 - Valid: Dec 04, 2013 - Dec 10, 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.
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Produced: 11/26/2013

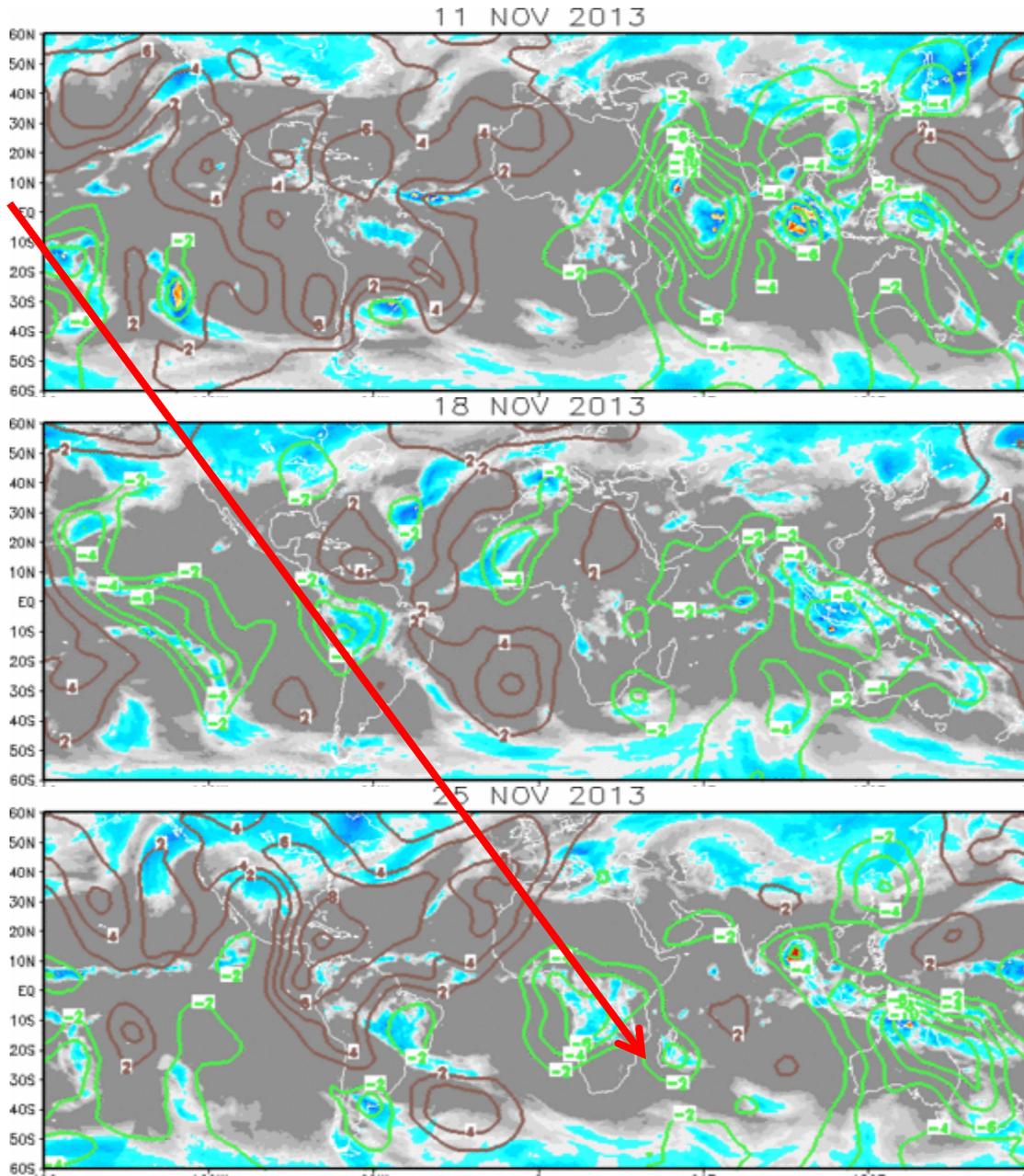
Forecaster: Allgood

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.



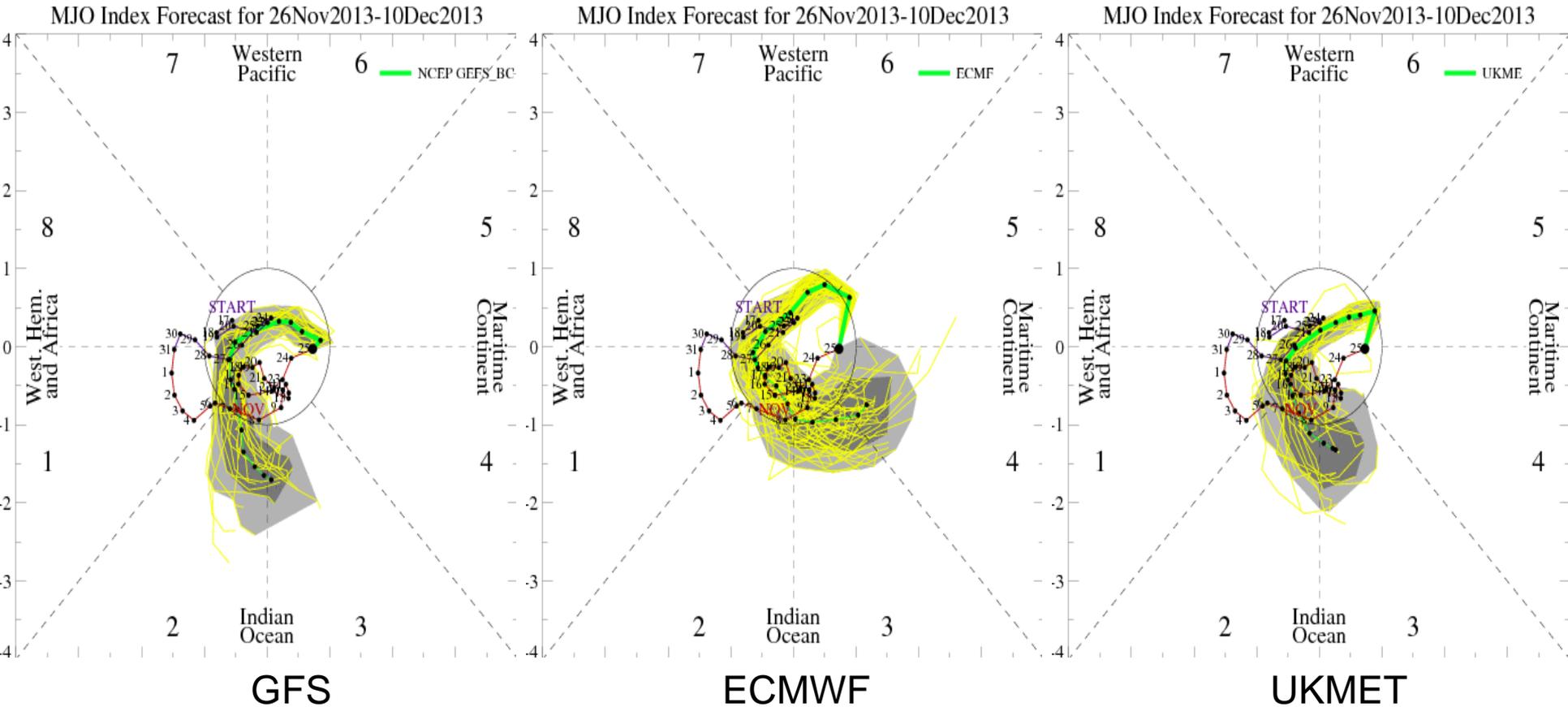
IR Satellite & 200-hpa Velocity Potential Anomalies

Green: Enhanced Divergence Brown: Enhanced Convergence

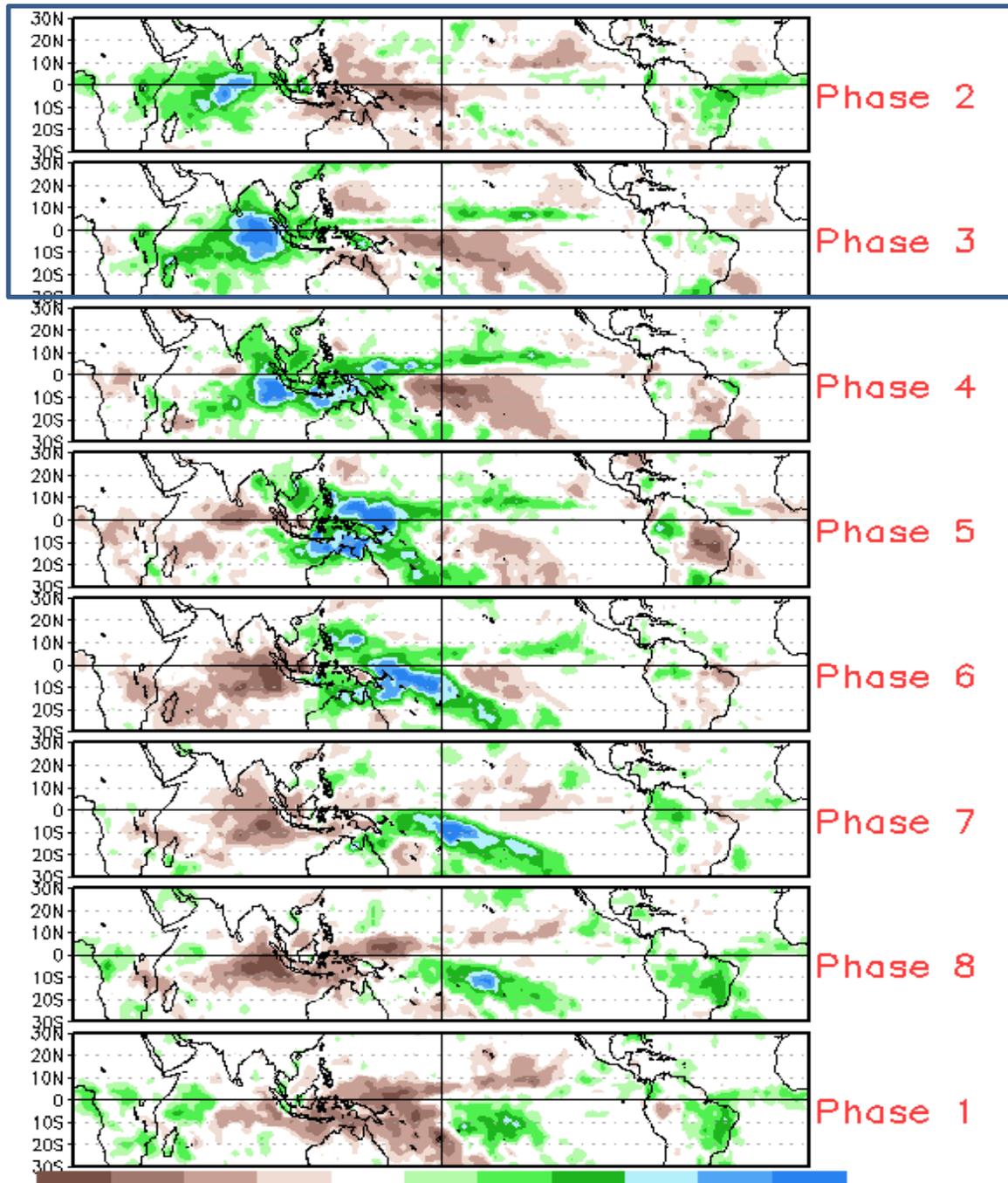


No MJO coherence (e.g., a Wave-1 pattern) evident

MJO Observation/Forecast

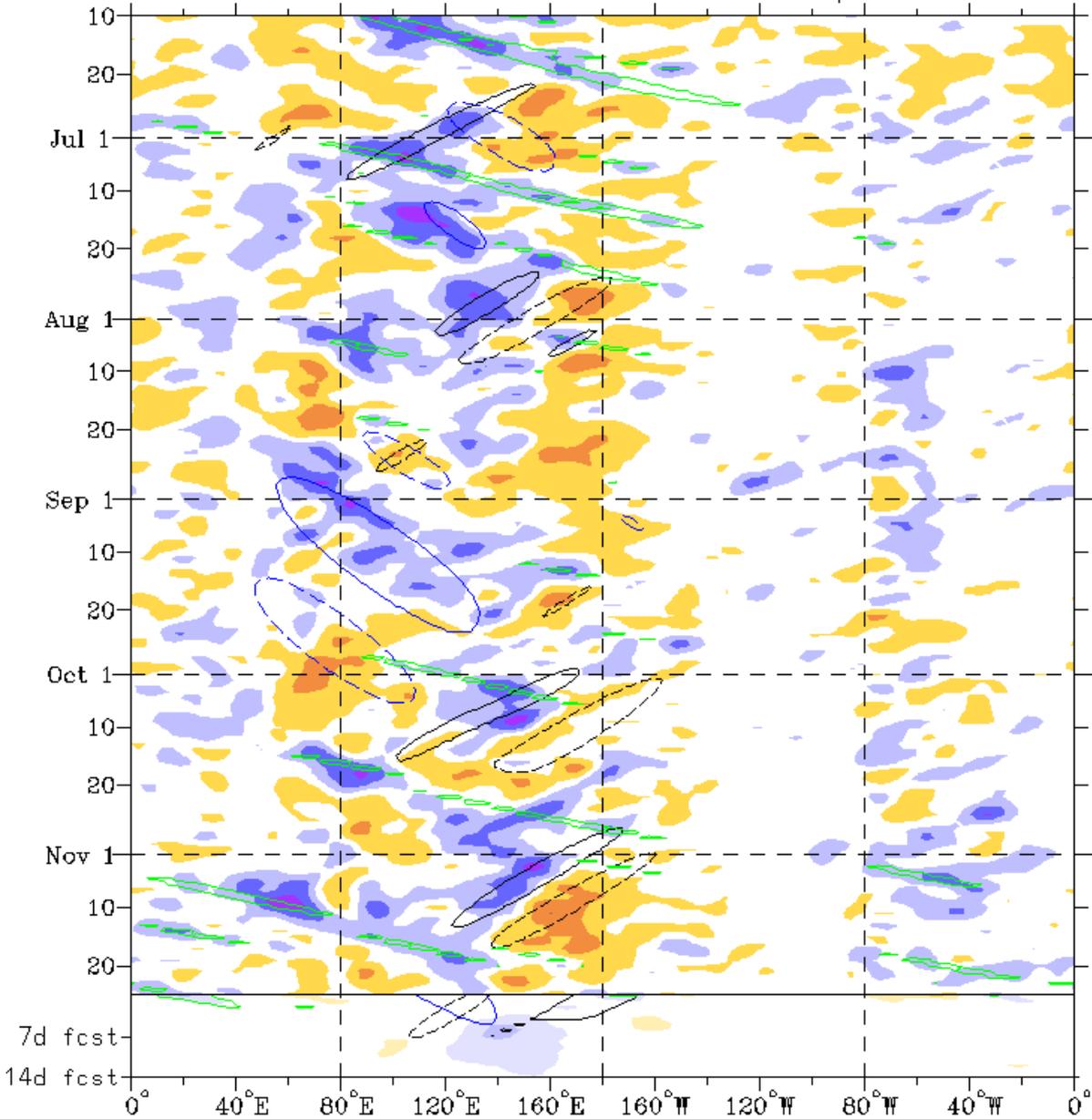


Average Conditions when the MJO is present (Nov - Mar)

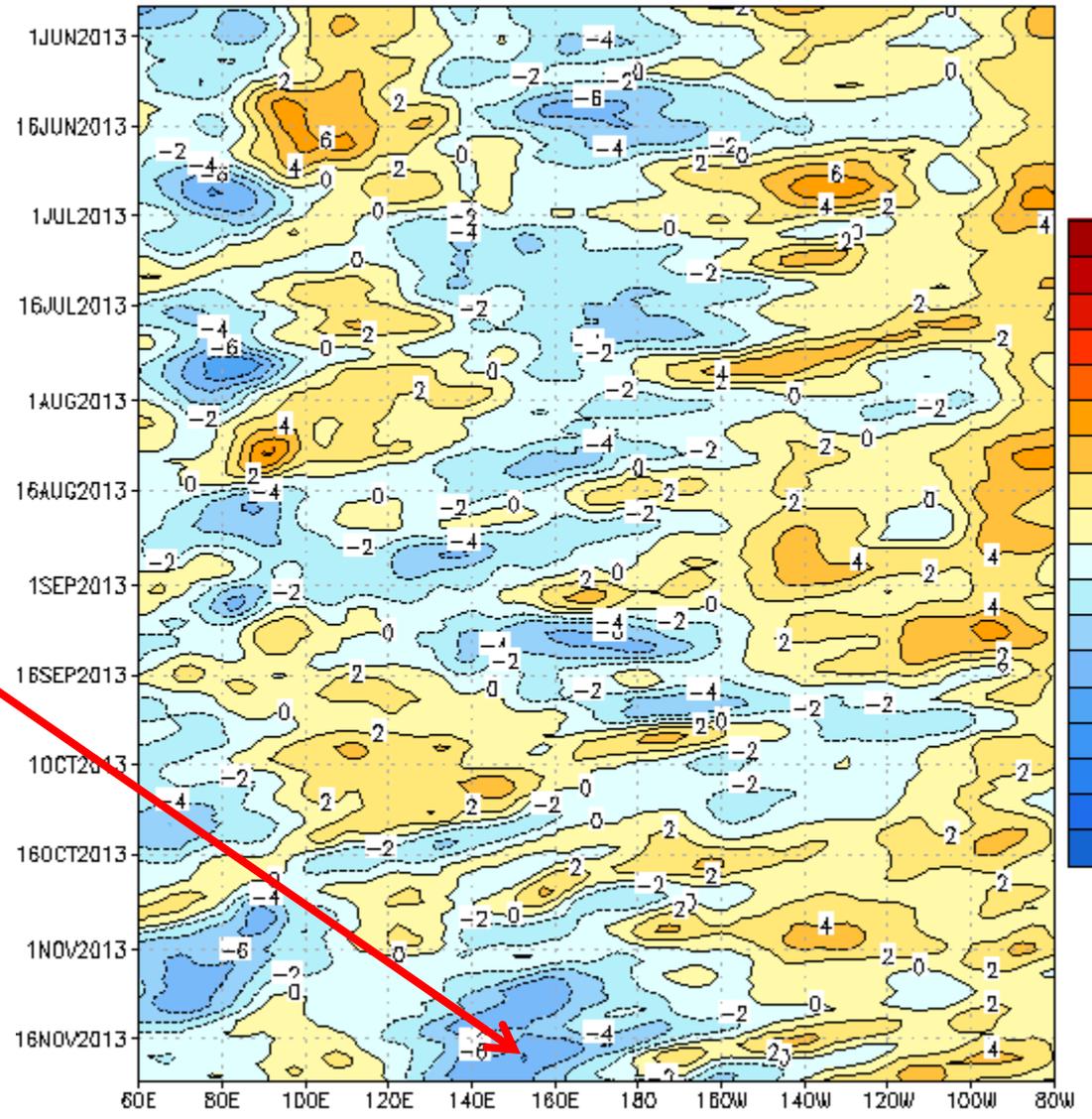


Rossby Wave influence is evident over the western Pacific and Maritime Continent.

Atmospheric Kelvin Waves are evident over the Western Hemisphere and Pacific Ocean.

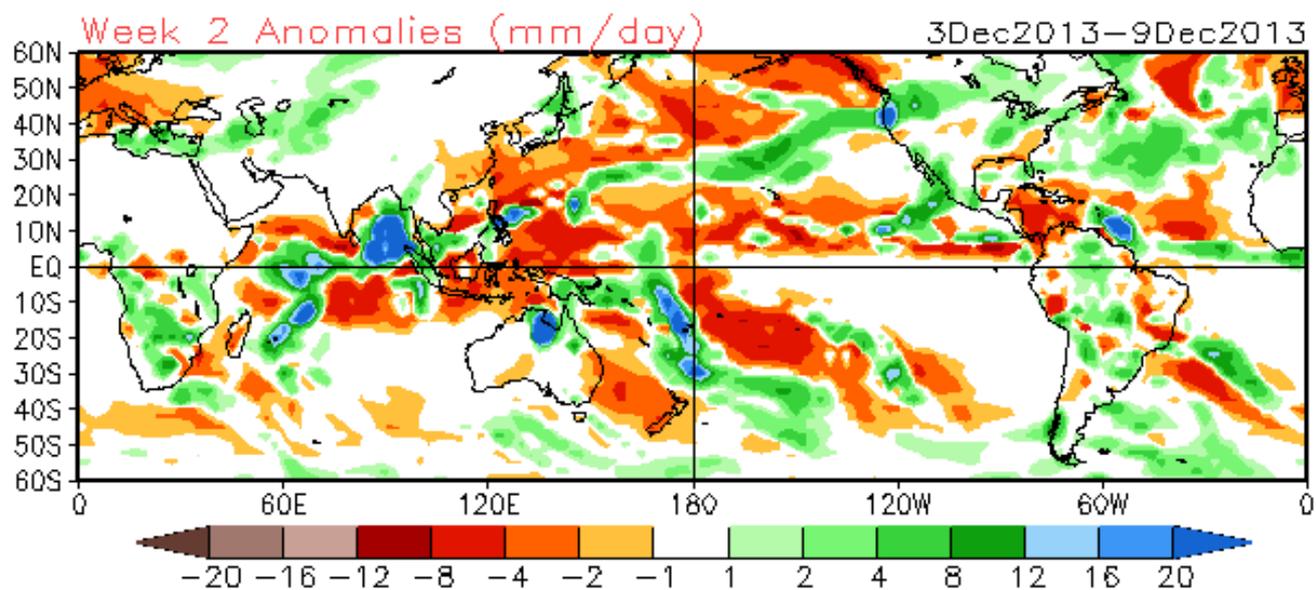
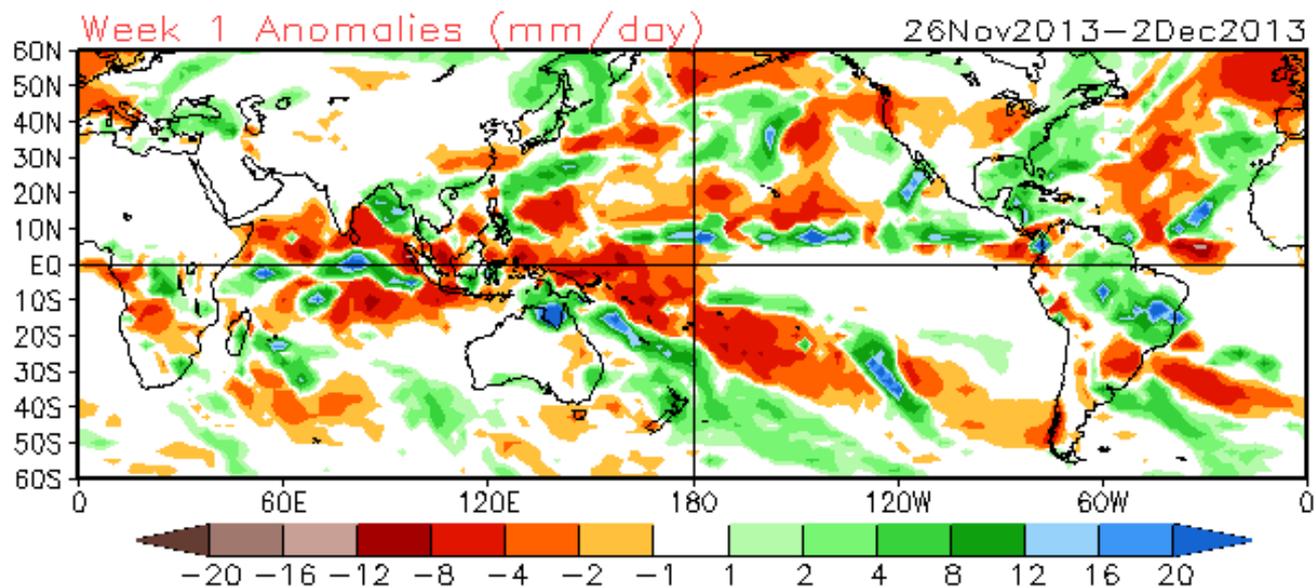


CDAS 850-hPa U Anoms. (5N-5S)



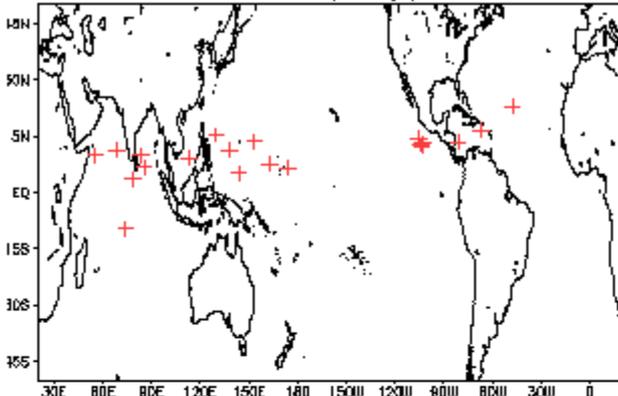
Influence of westward moving features evident in the evolution of equatorial low level zonal wind anomalies.

Data updated through 23 NOV 2013

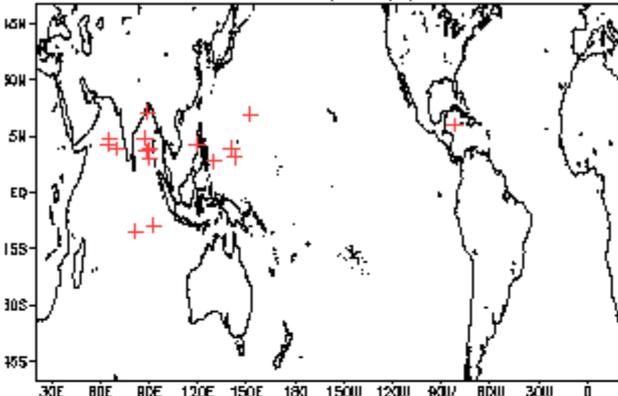


November Tropical Storm Formation by MJO phase

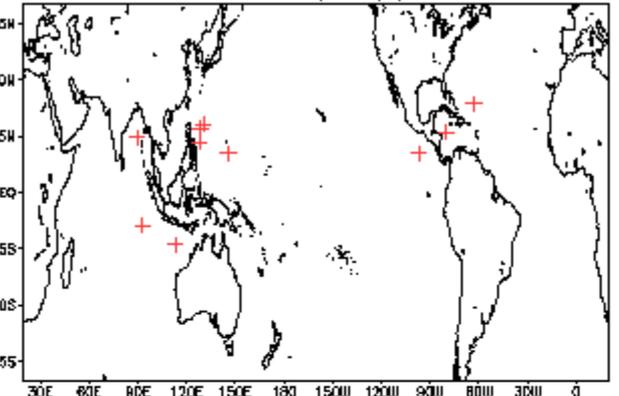
Phase 1 (65 days) 21 storms



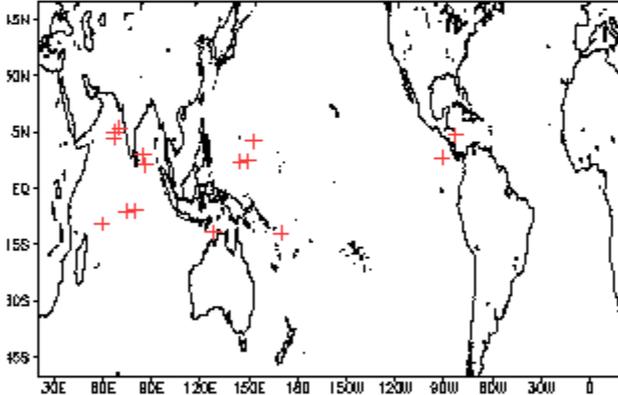
Phase 4 (77 days) 17 storms



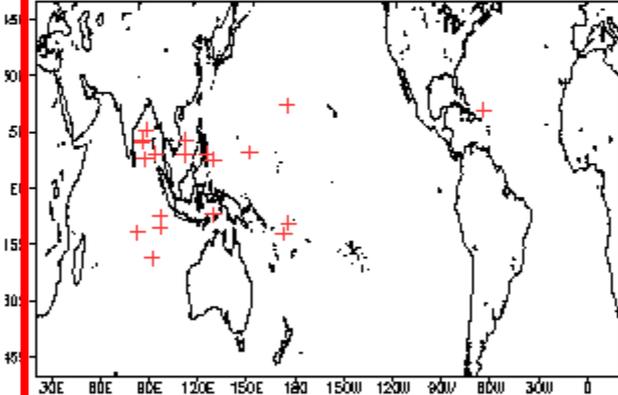
Phase 7 (68 days) 11 storms



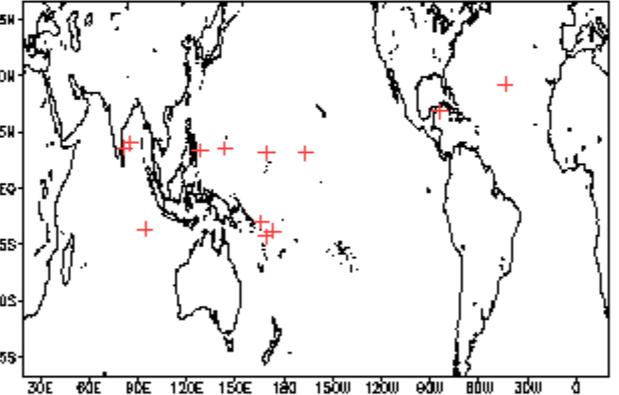
Phase 2 (88 days) 16 storms



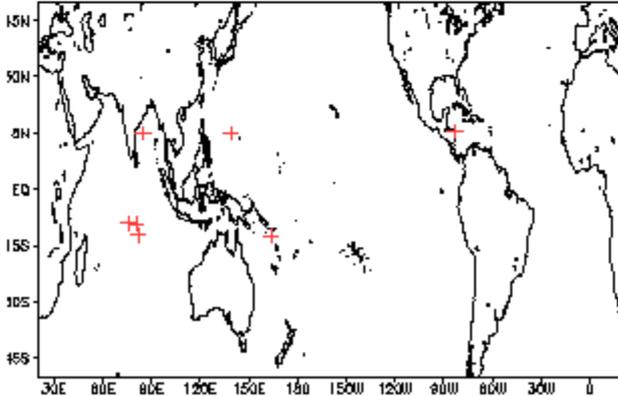
Phase 5 (72 days) 20 storms



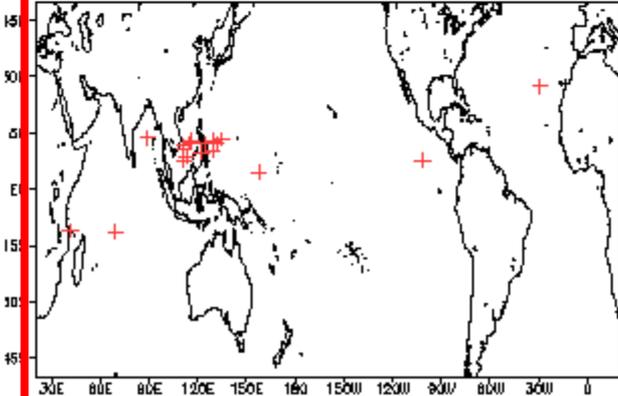
Phase 8 (60 days) 14 storms



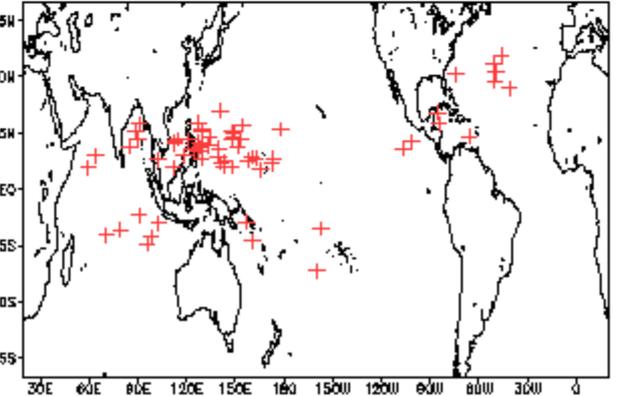
Phase 3 (89 days) 8 storms



Phase 6 (91 days) 19 storms



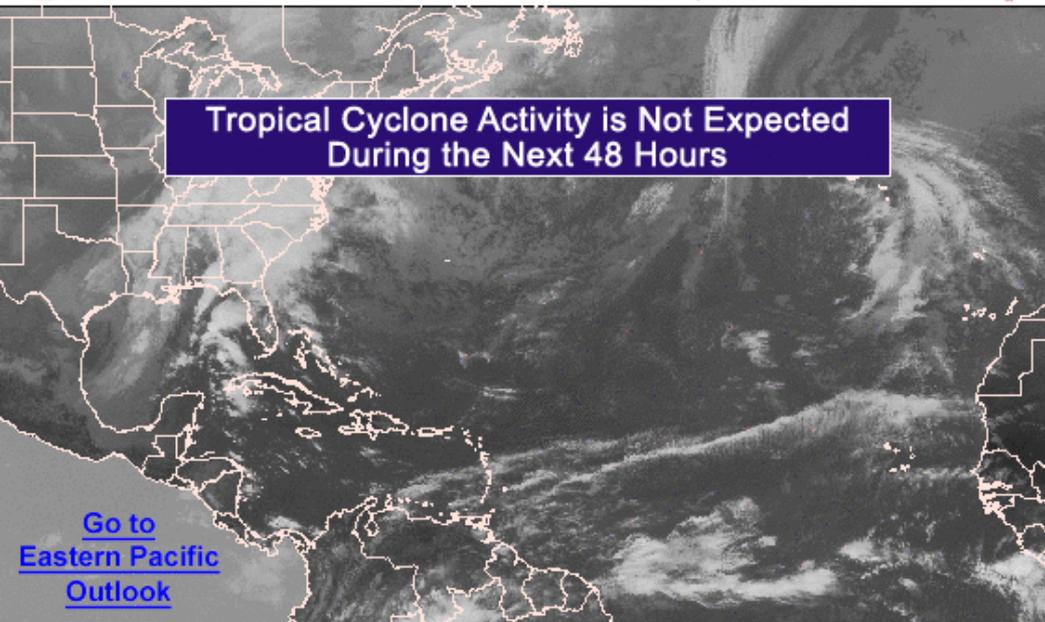
Null (380 days) 65 storms





Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



100 PM EST TUE NOV 26 2013

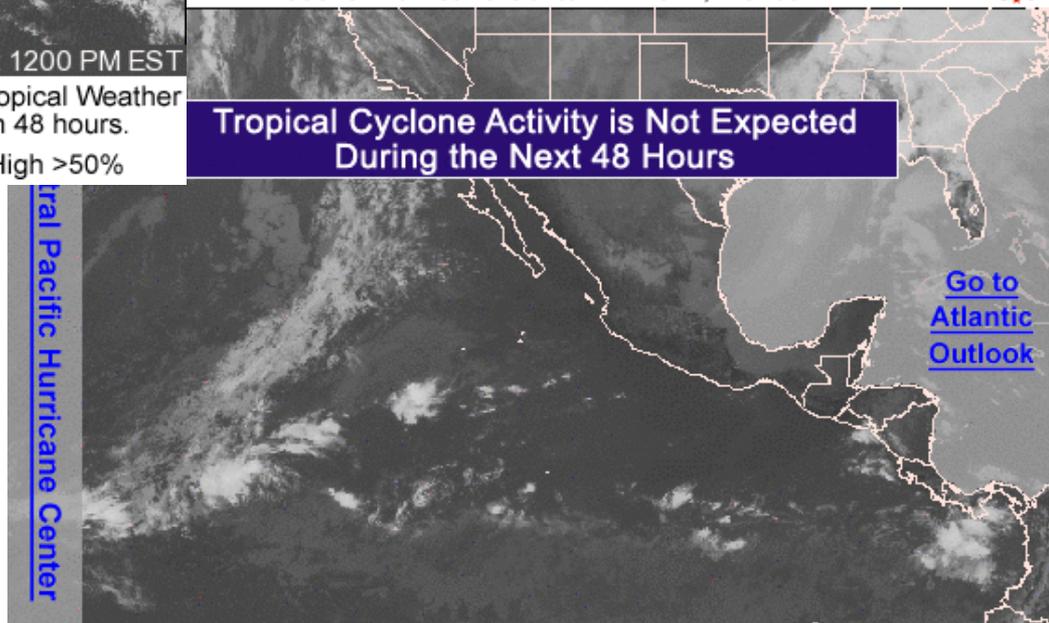
Satellite Image: 1200 PM EST

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%

Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida

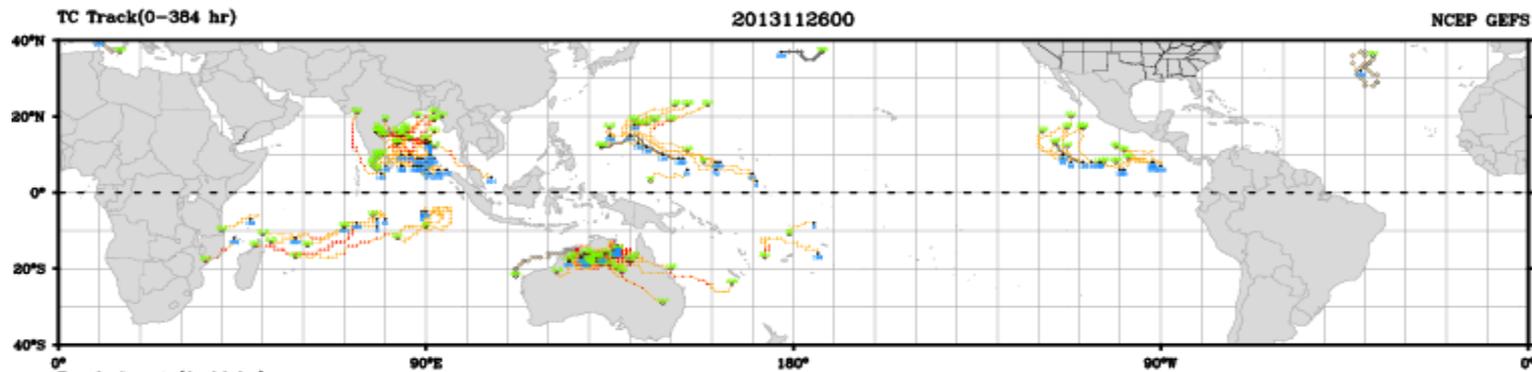


1000 AM PST TUE NOV 26 2013

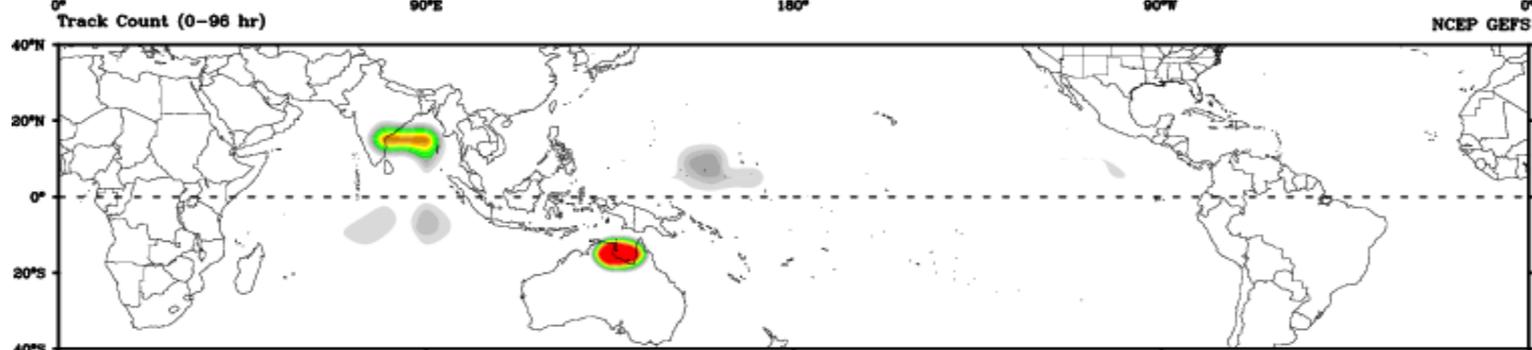
Satellite Image: 0900 AM PST

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

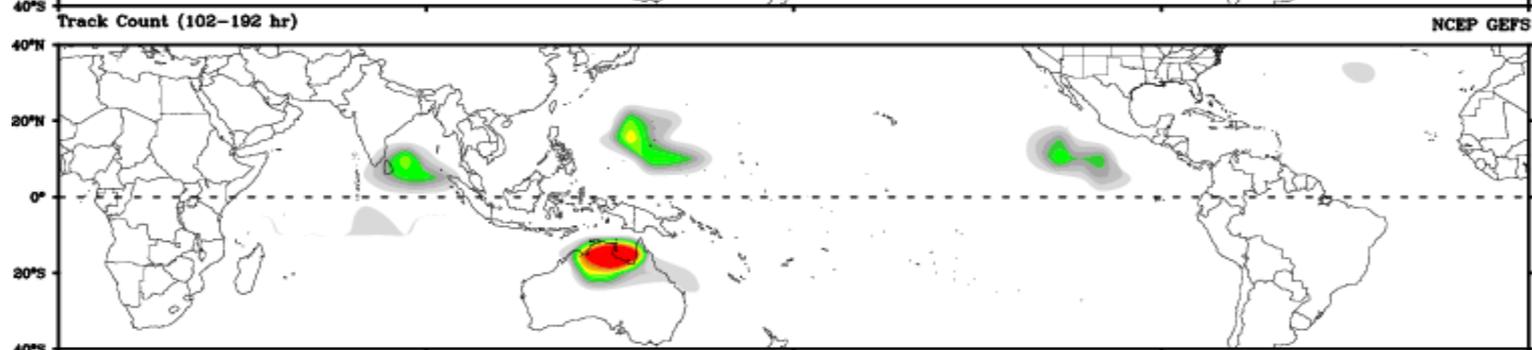
Low <30%
 Medium 30-50%
 High >50%



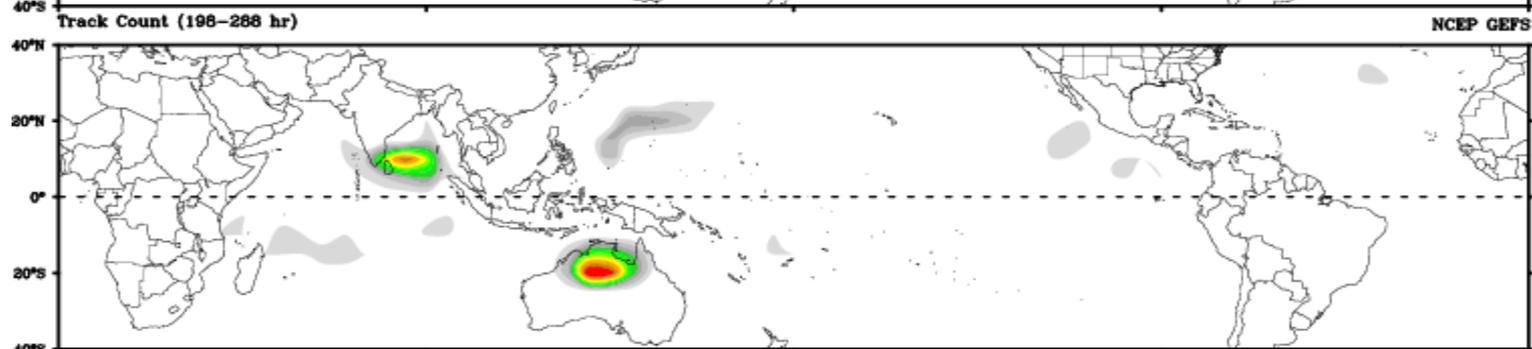
Days 1-4

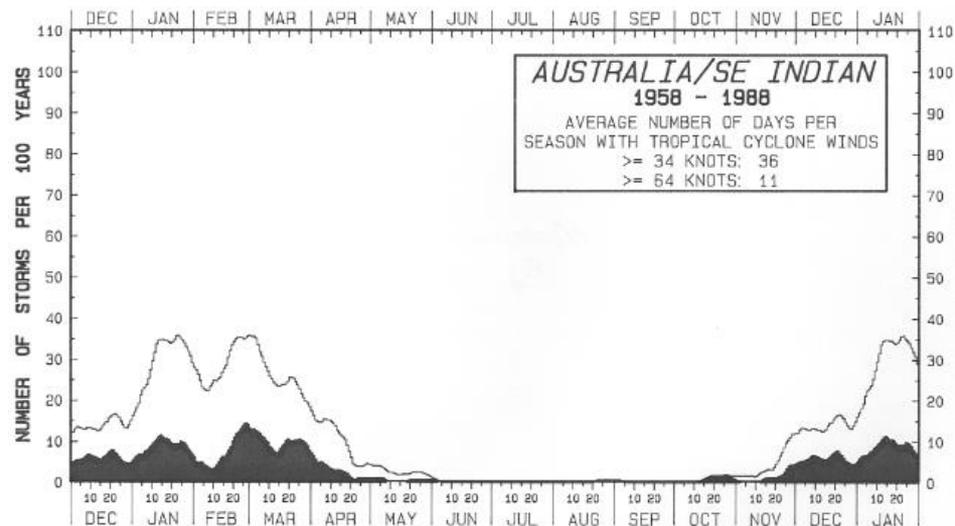
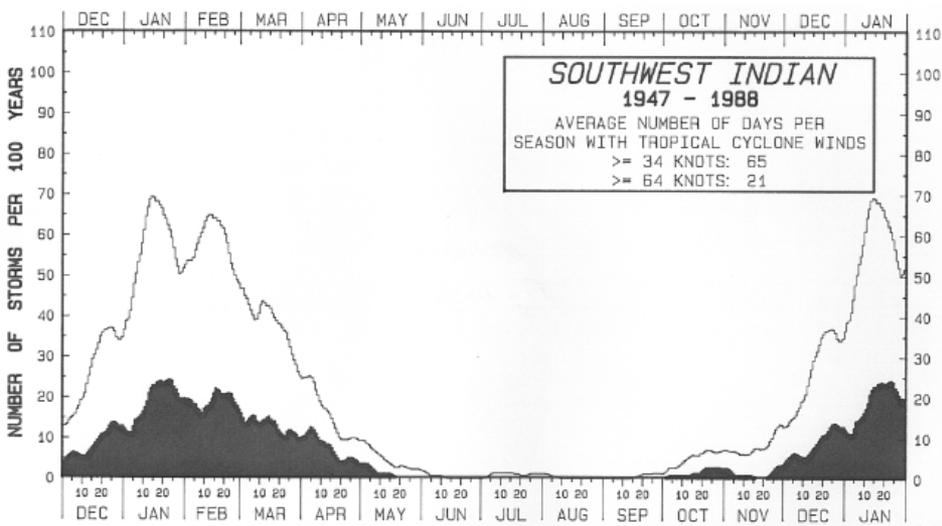
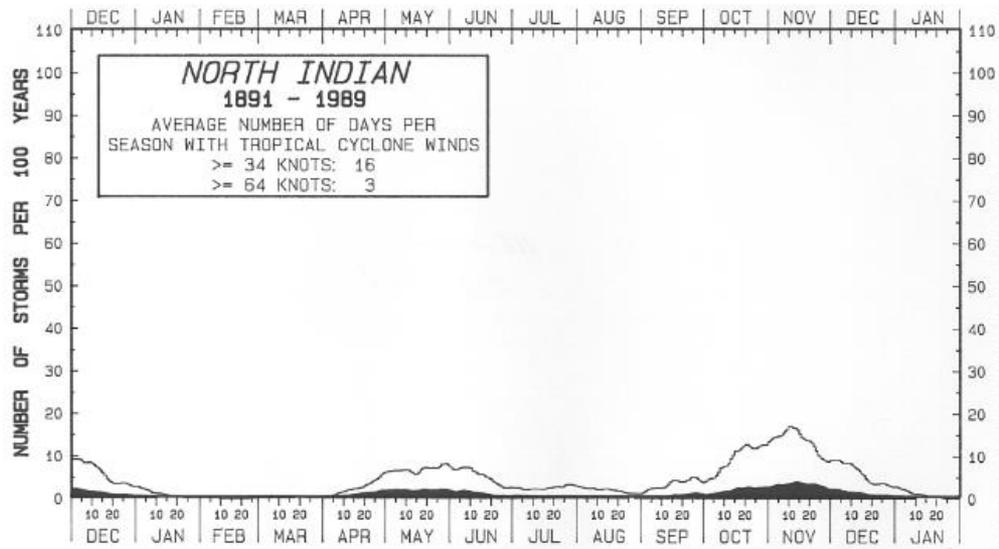


Day 5-8



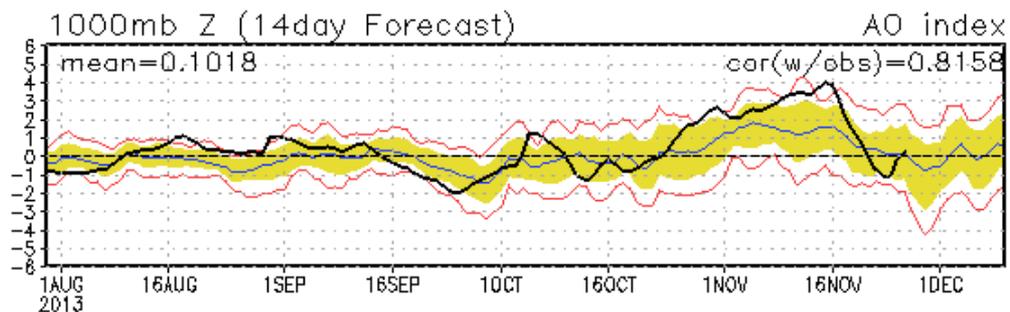
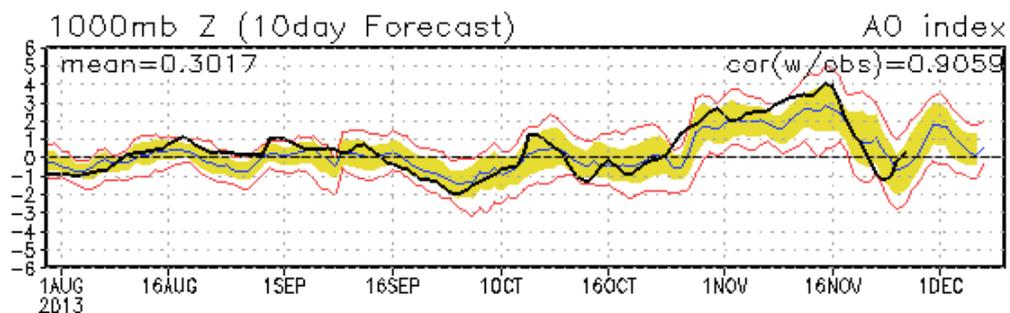
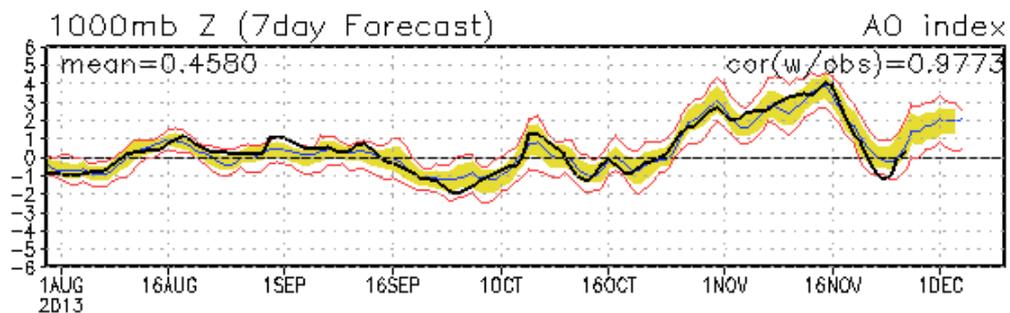
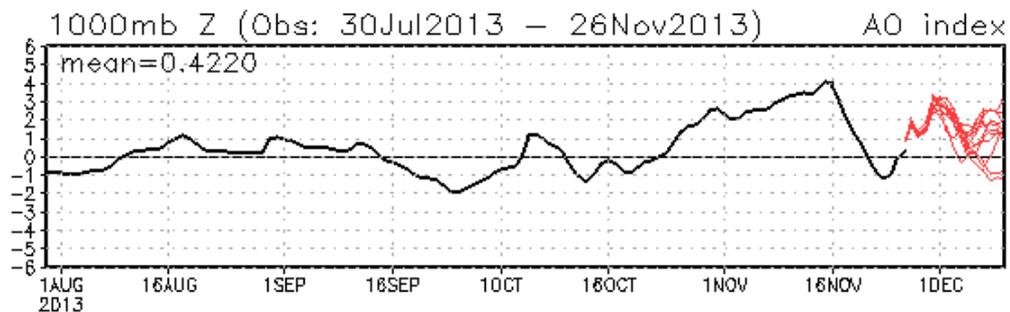
Day 9-12

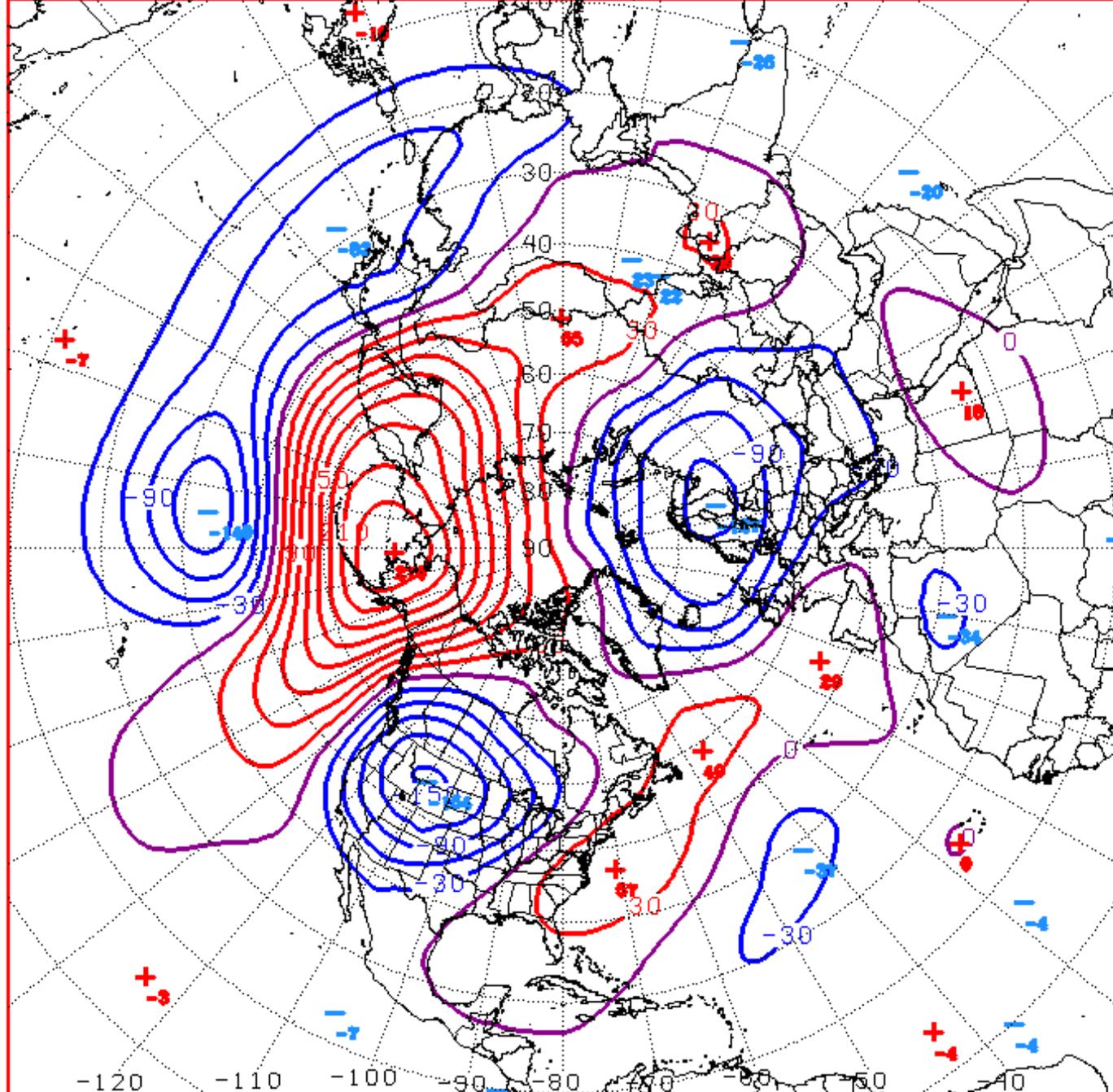




Connections to U.S. Impacts

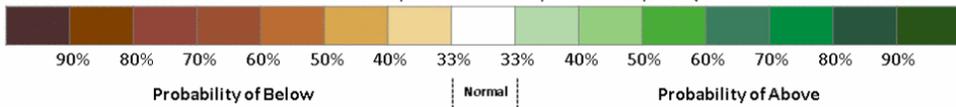
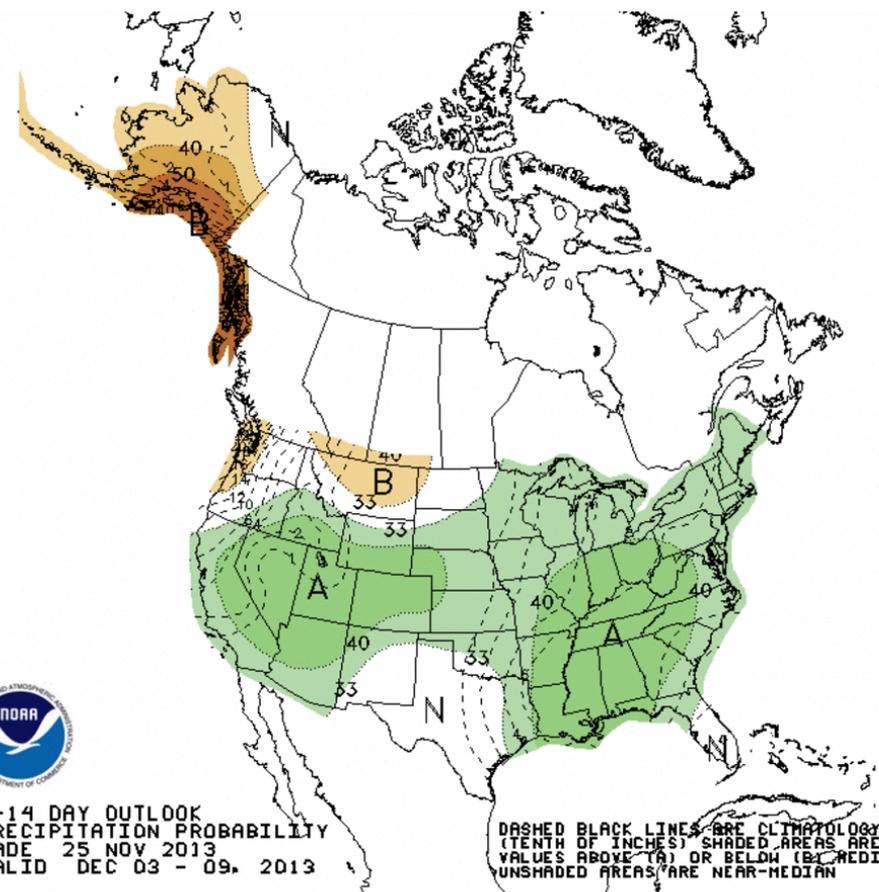
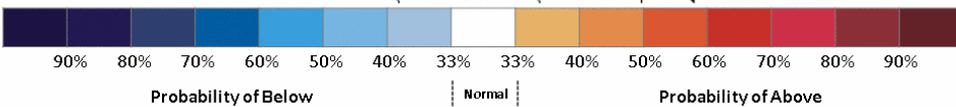
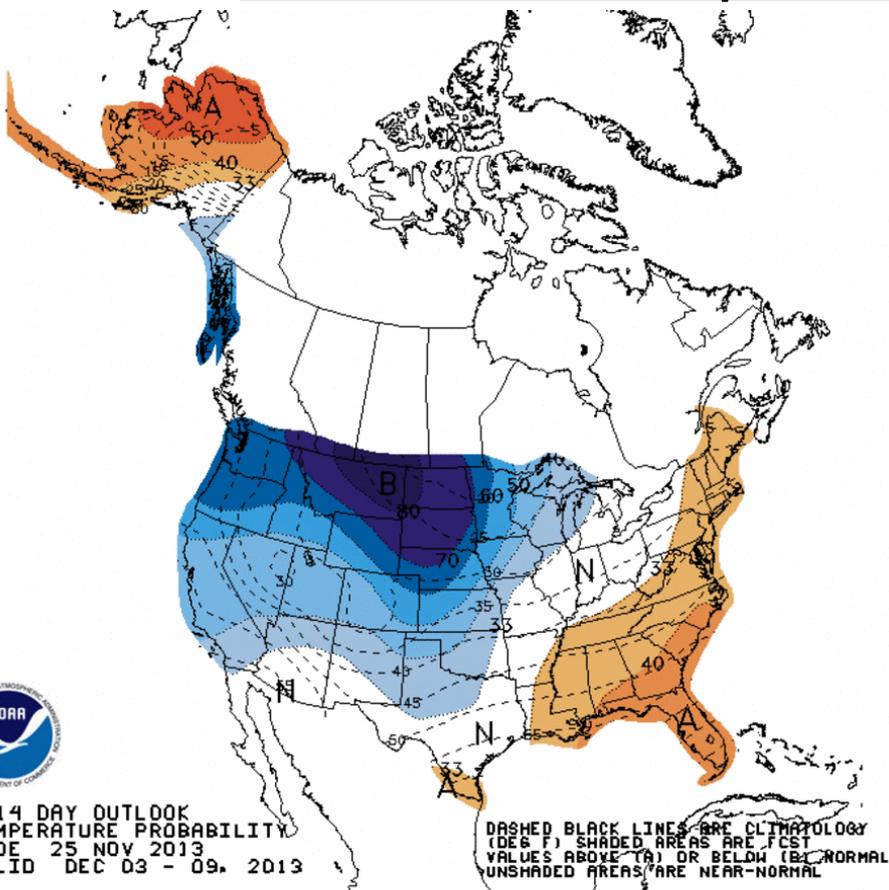
AO: Observed & ENSM forecasts



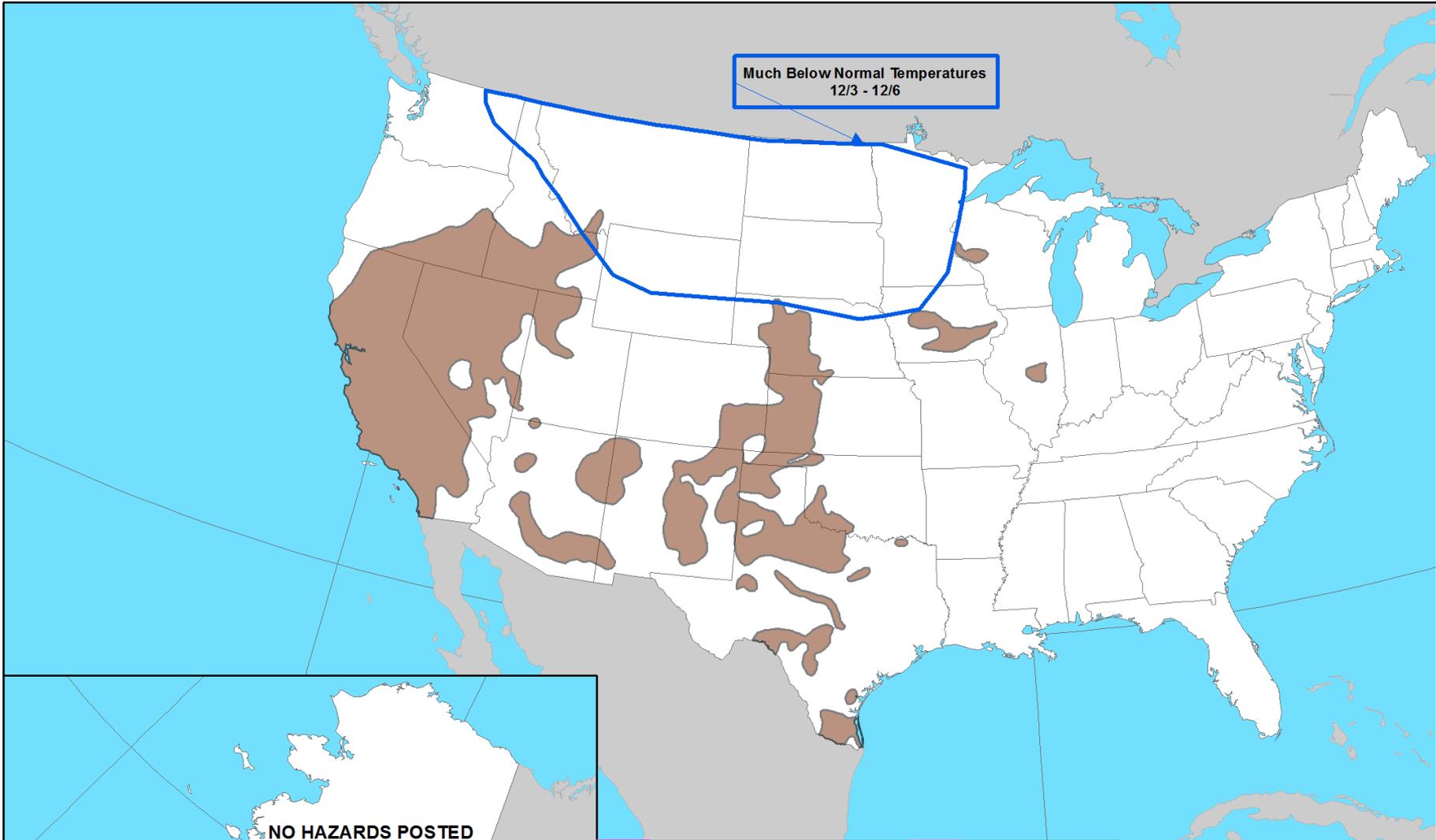


D+11 500 MB ANOMALIES FROM 00Z ECMM
CPC MAP MADE NOV 26 2013 1051 UTC CNTD DEC 07 2013

Week 2 – Temperature and Precipitation

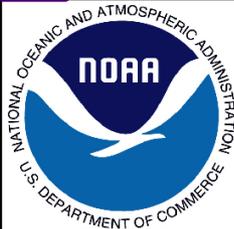


Much Below Normal Temperatures
12/3 - 12/6



NO HAZARDS POSTED

- Flooding Likely
- Flooding Possible
- Flooding Occurring/Imminent
- Severe Drought



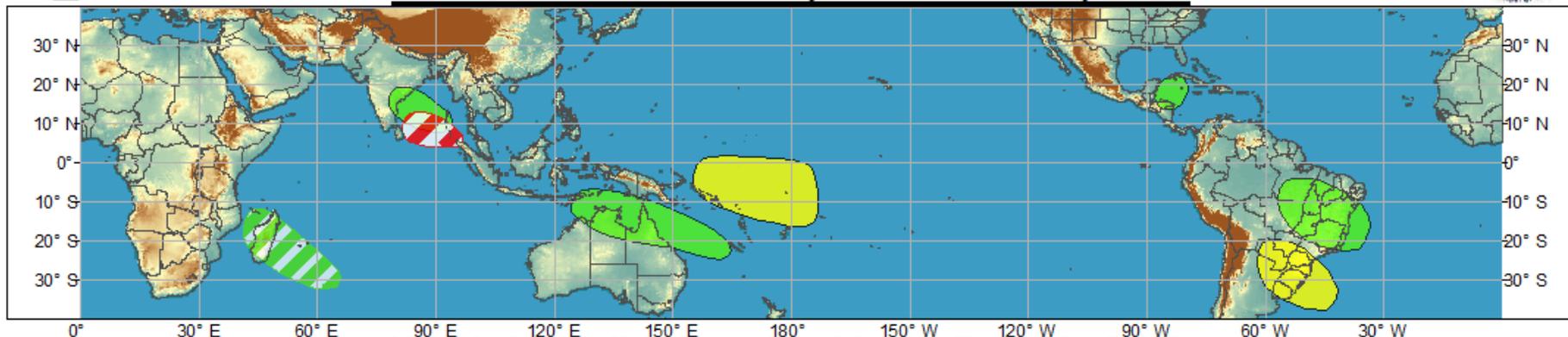
NWS
Day 8-14 U.S. Hazards Outlook
Made: 11/25/2013 3PM EST
Valid: 12/03/2013-12/09/2013



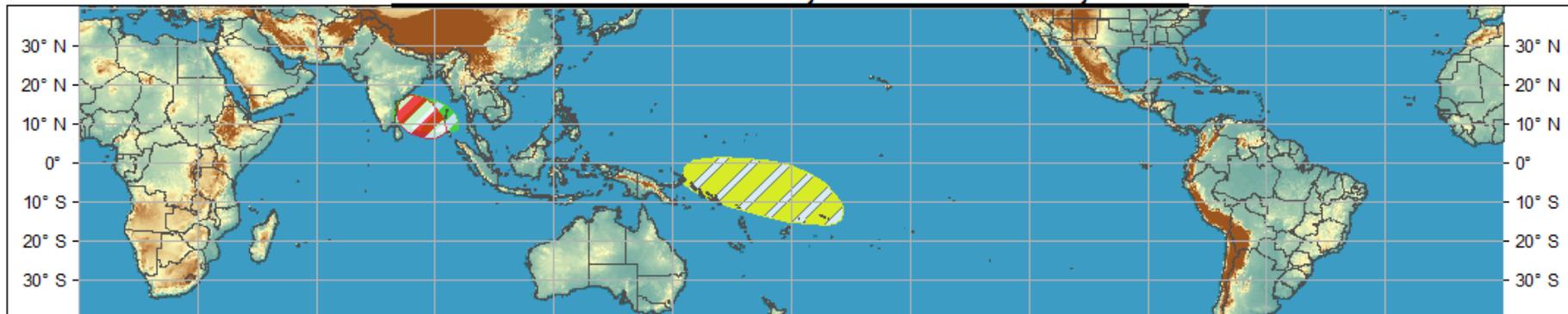
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