

Global Tropics Hazards And Benefits Outlook

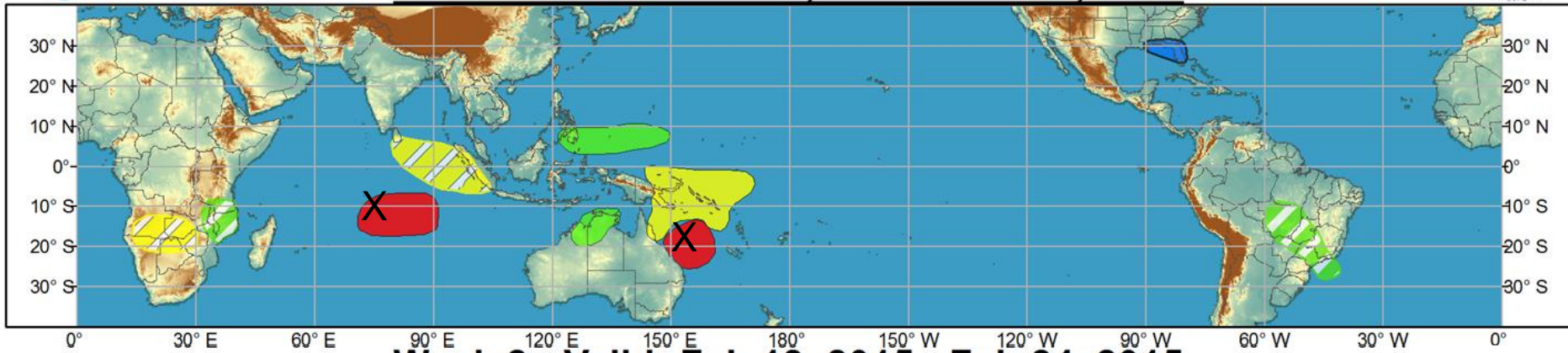
February 24, 2015

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

Week 1 - Valid: Feb 18, 2015 - Feb 24, 2015

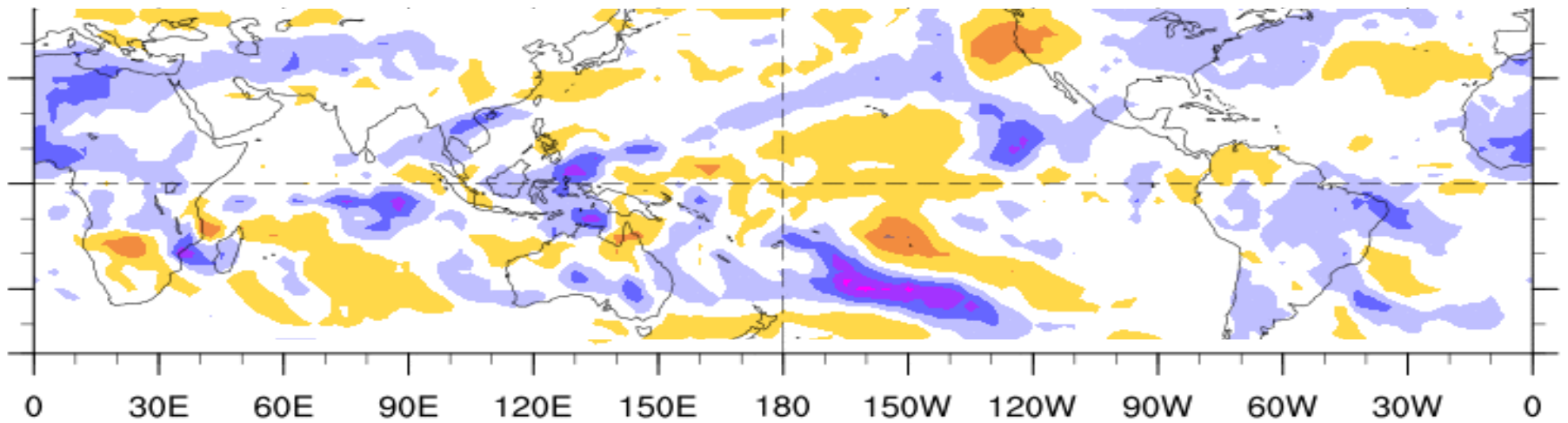


Week 2 - Valid: Feb 18, 2015 - Feb 24, 2015

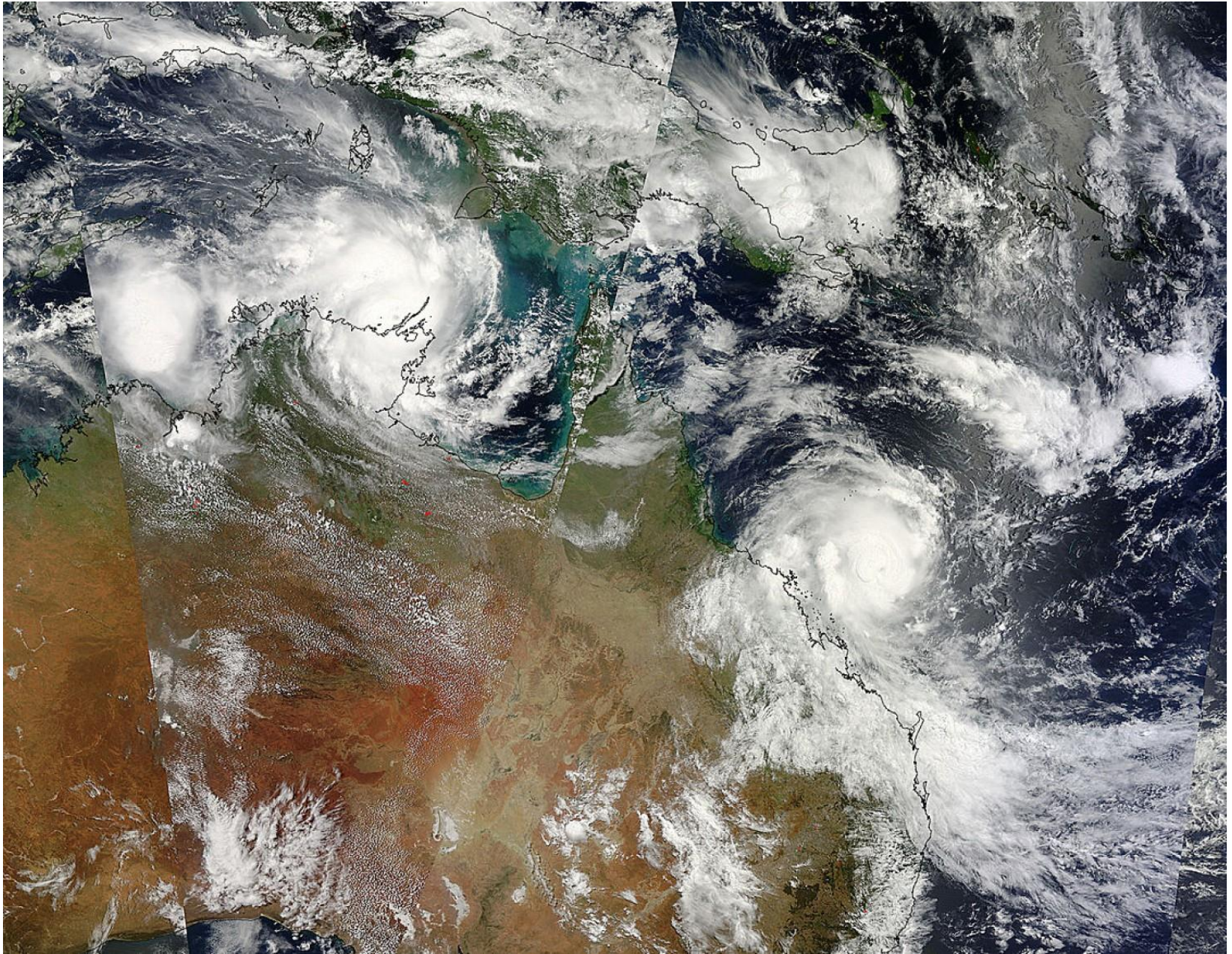


7-Day Average OLR Anomaly

2015/02/16 - 2015/02/22

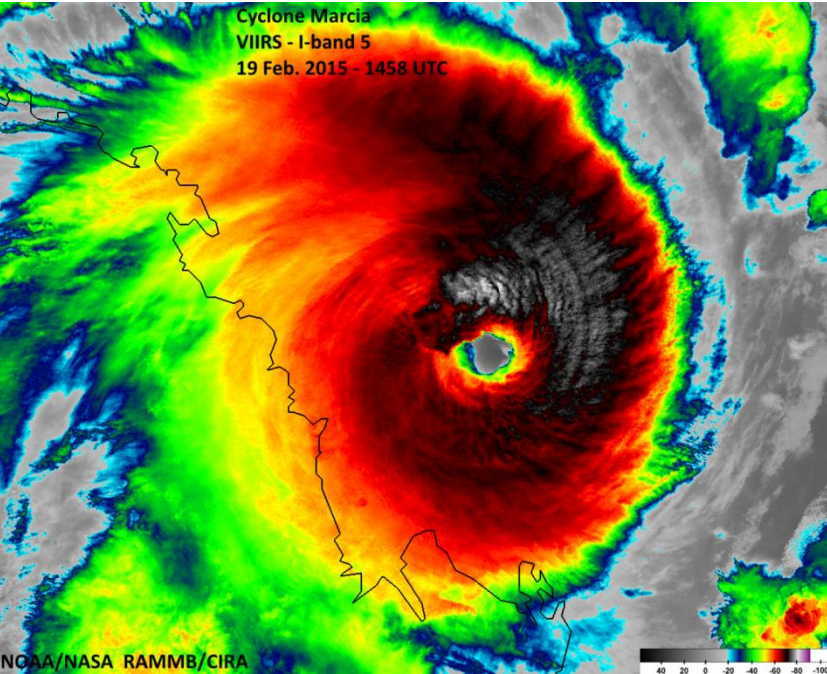


Two TC Landfalls near Australia: Lam (Northern Territory, Cat-2) and Marcia (QLD, Cat-3)



Cyclone Marcia

- Category-3 Intensity before landfall
- Landfall over QLD, near Yeppoon and Rockhampton



Wind, flood damage in Yeppoon, QLD

Synopsis of Climate Modes

ENSO:

- Current: ENSO-neutral (El Nino Watch)
- Outlook: There is an approximately 50-60% chance of El Niño conditions during late winter/early Spring, with ENSO-neutral favored thereafter..

MJO and other subseasonal tropical variability:

- The MJO remained weak during the past week. Transient Kelvin Waves, Equatorial Waves dominating a largely incoherent global tropical convective pattern.
- The GFS ensembles favor a continued weak MJO signal through Week-2, while the ECMWF, Canadian, and operational UKMET favor increasing signal over the Maritime Continent during Week-2.

Extratropics:

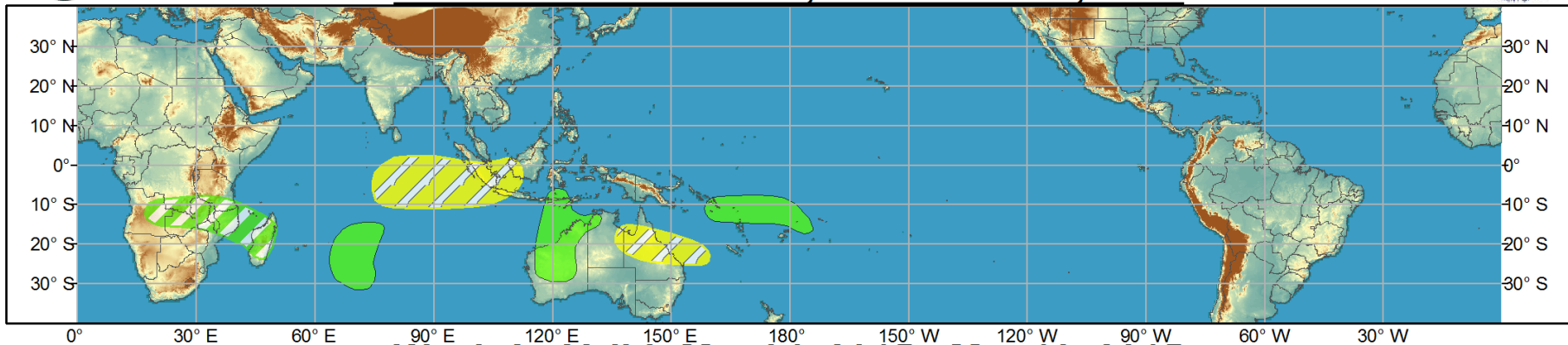
- With a largely incoherent large-scale anomaly global tropical convective anomaly, pattern, internal, mid-latitude variability is likely to drive much of the pattern of the CONUS through Week-2.



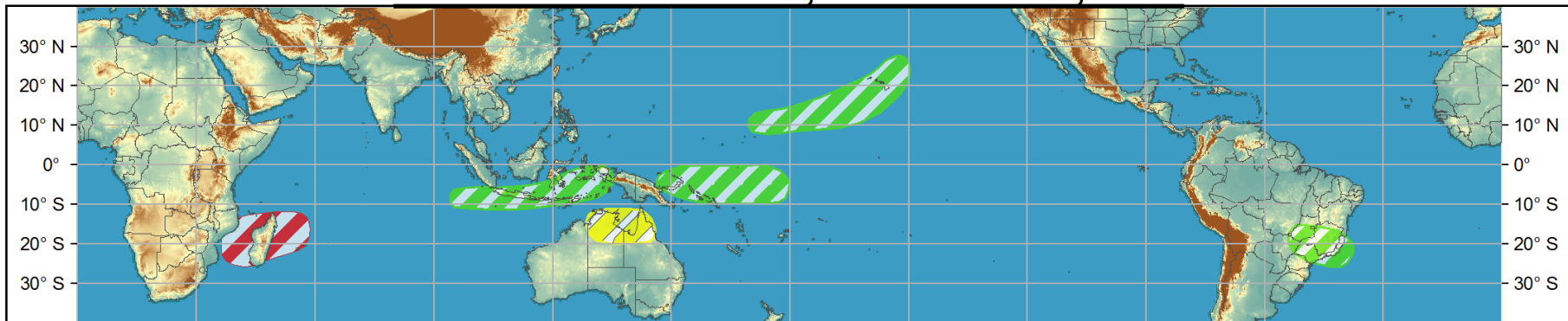
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center



Week 1 - Valid: Feb 25, 2015 - Mar 03, 2015



Week 2 - Valid: Mar 04, 2015 - Mar 10, 2015



Confidence
High Moderate

- Tropical Cyclone Formation**
- Above-average rainfall**
- Below-average rainfall**
- Above-normal temperatures**
- Below-normal temperatures**



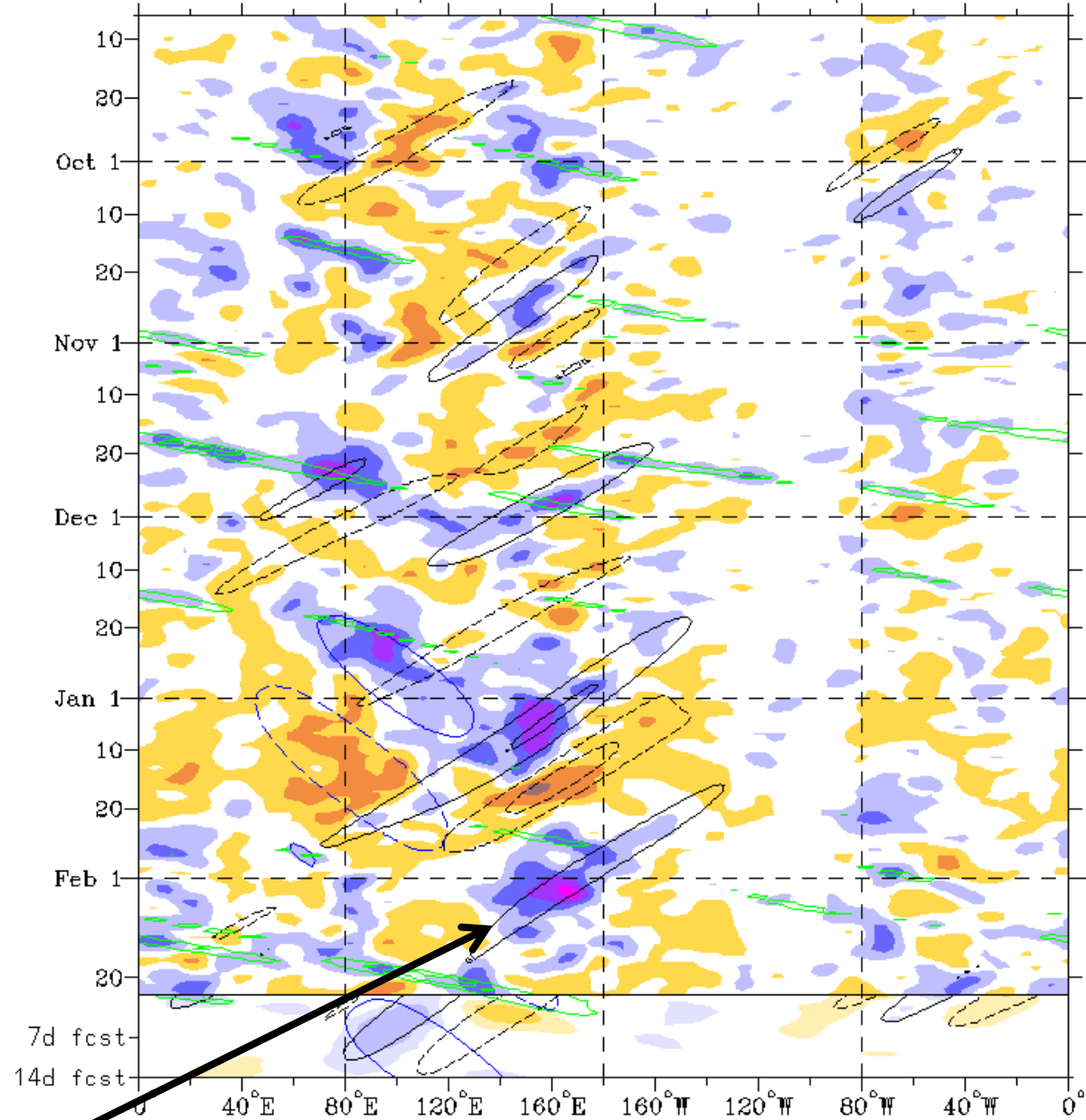
- Development of a tropical cyclone (tropical depression - TD, or greater strength).
- Weekly total rainfall in the upper third of the historical range.
- Weekly total rainfall in the lower third of the historical range.
- 7-day mean temperatures in the upper third of the historical range.
- 7-day mean temperatures in the lower third of the historical range.

Produced: 02/24/2015

Forecaster: Allgood

Product is updated once per week, except from 6/1 - 11/30 for the region from 120E to 0, 0 to 40N. The product targets broad scale conditions integrated over a 7-day period for US interests only. Consult your local responsible forecast agency.



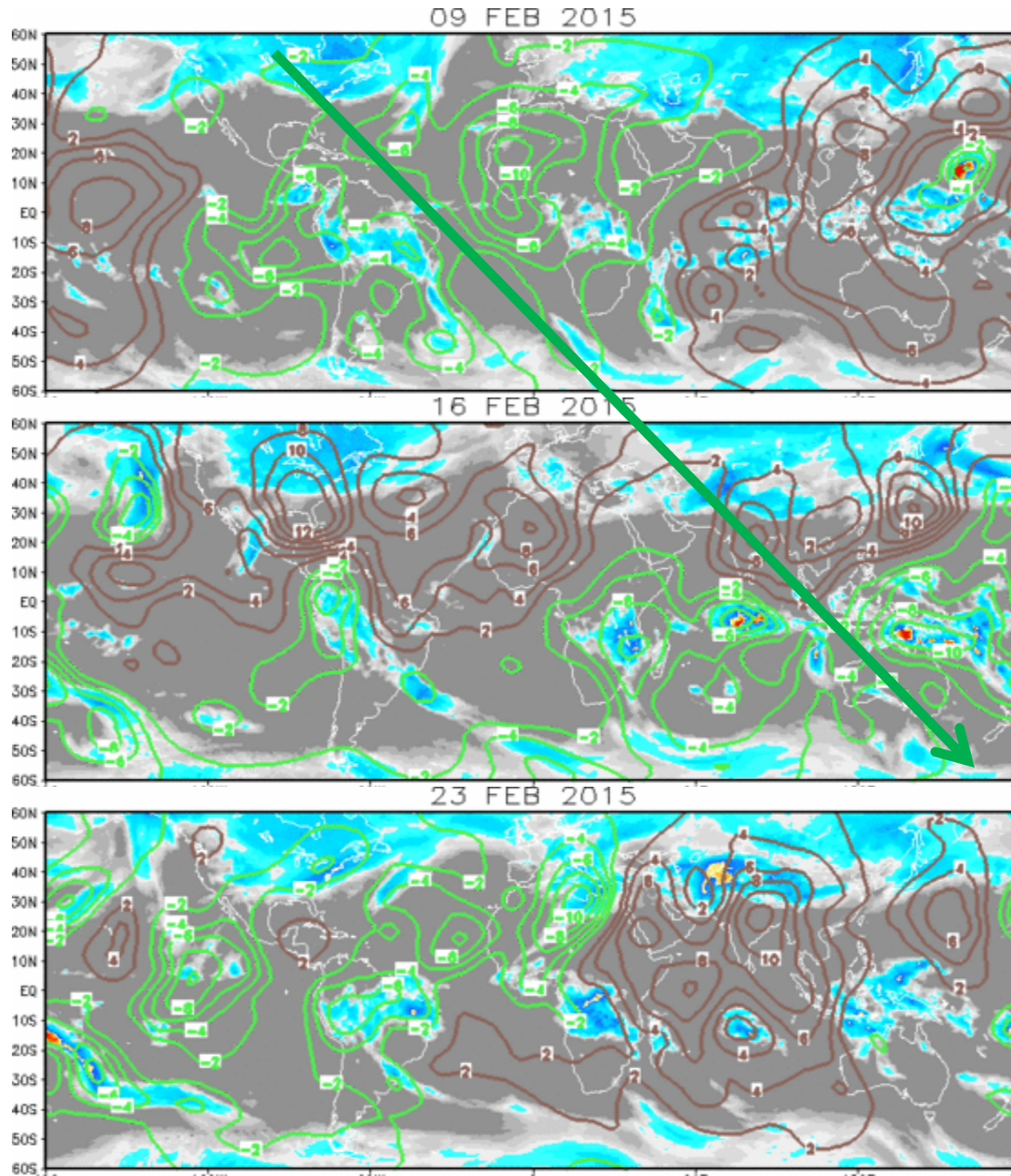


Largely incoherent pattern overall.

Slow, weakening ERW activity

IR Satellite & 200-hpa Velocity Potential Anomalies

Green: Enhanced Divergence Brown: Enhanced Convergence

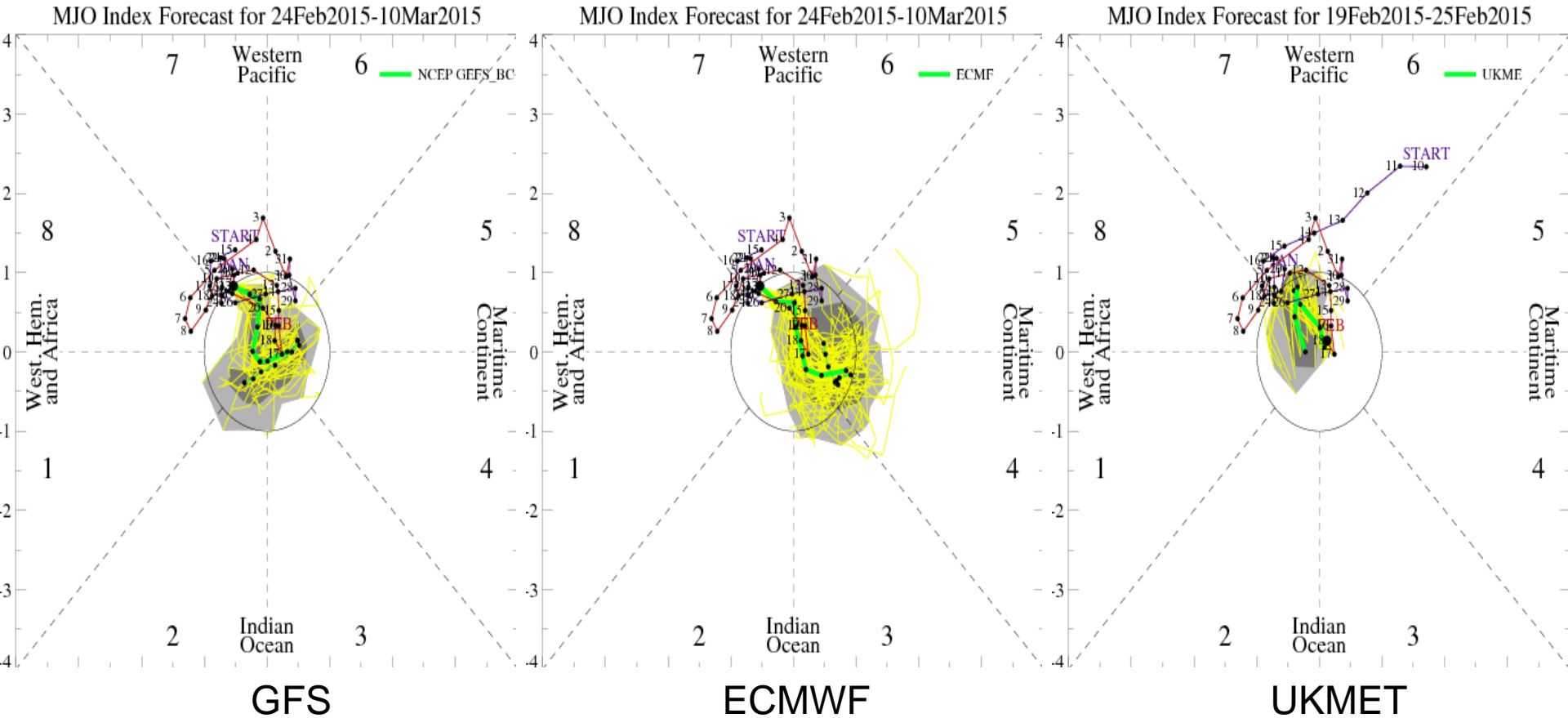


MJO Activity
not apparent.

More
transient KW
activity
(Green Line)

ERW Activity
less apparent
due to
interference

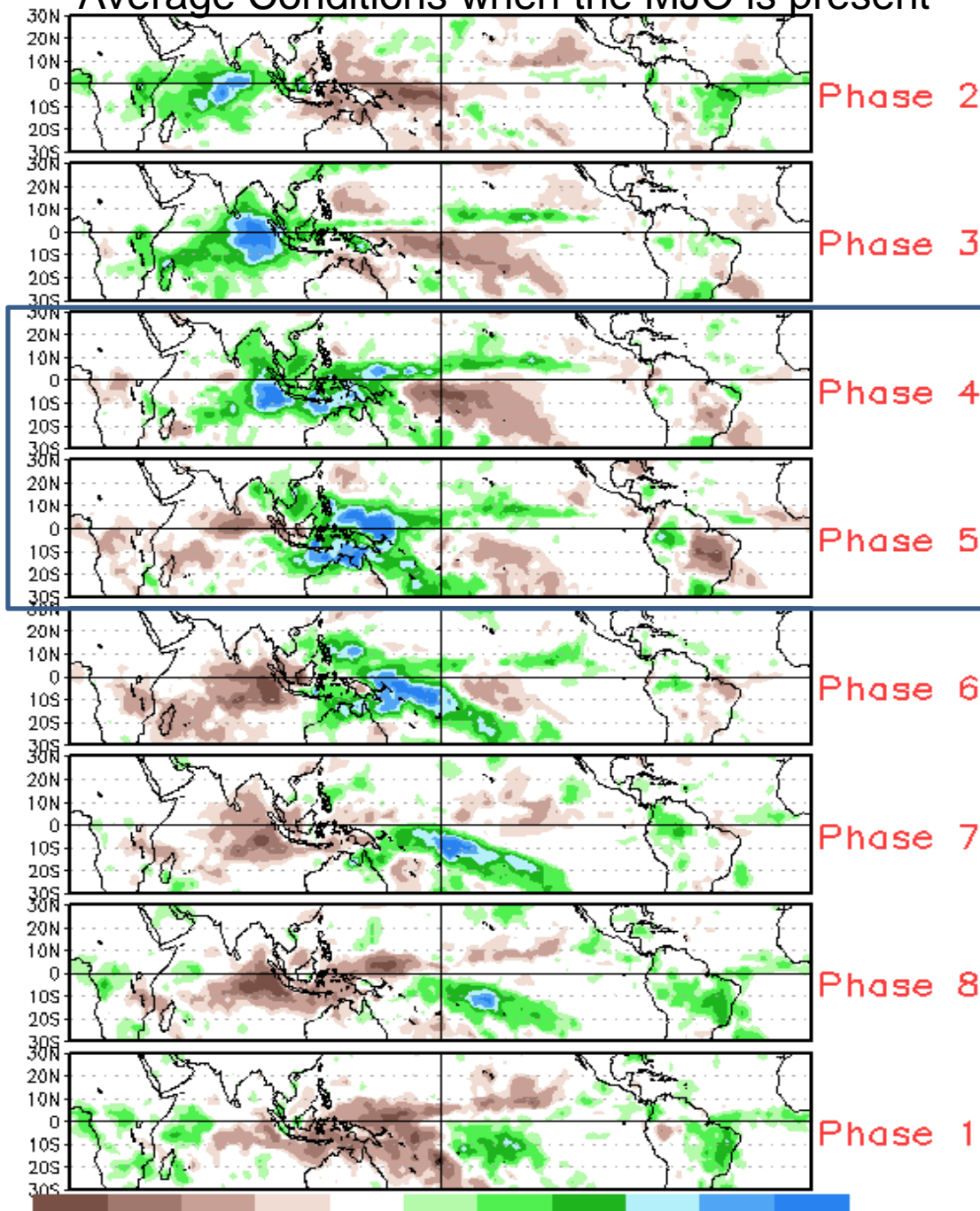
MJO Observation/Forecast



Weak MJO signal

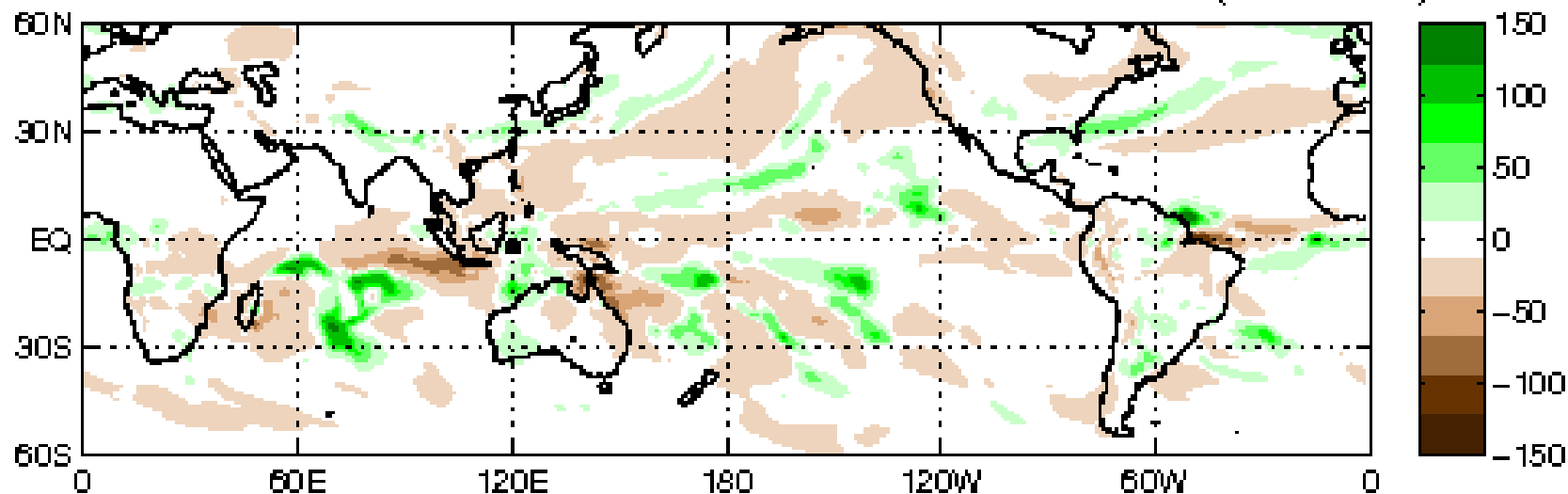
Weak M.T. signal Week-2

Average Conditions when the MJO is present

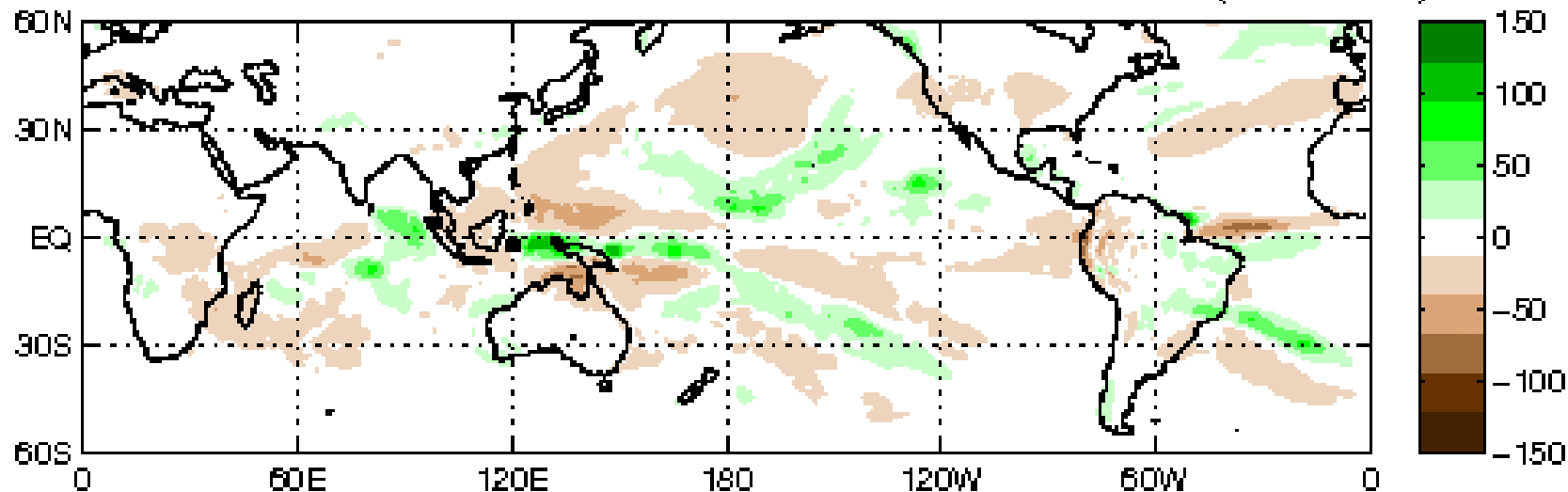


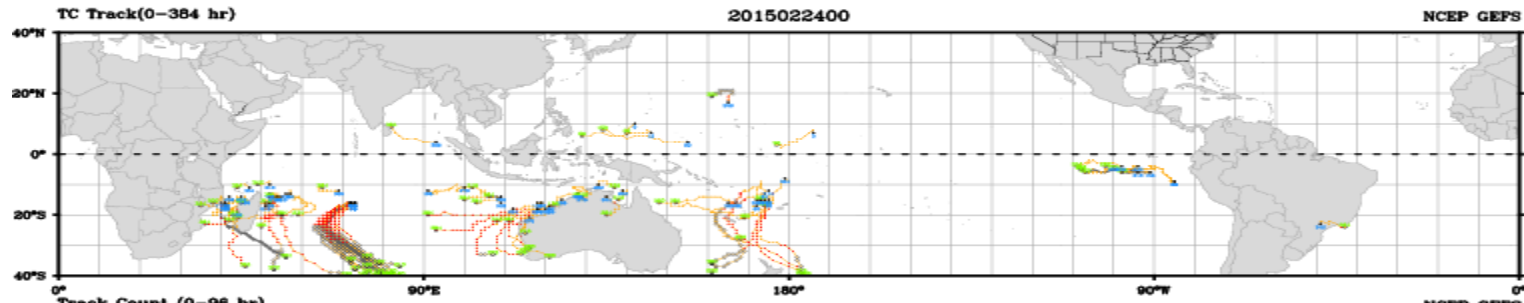
CAVEAT: These panels are representative of robust MJO events.

CFS: Anom. PREC Week: 1: 25-Feb-2015 to 03-Mar-2015 (mm/week)

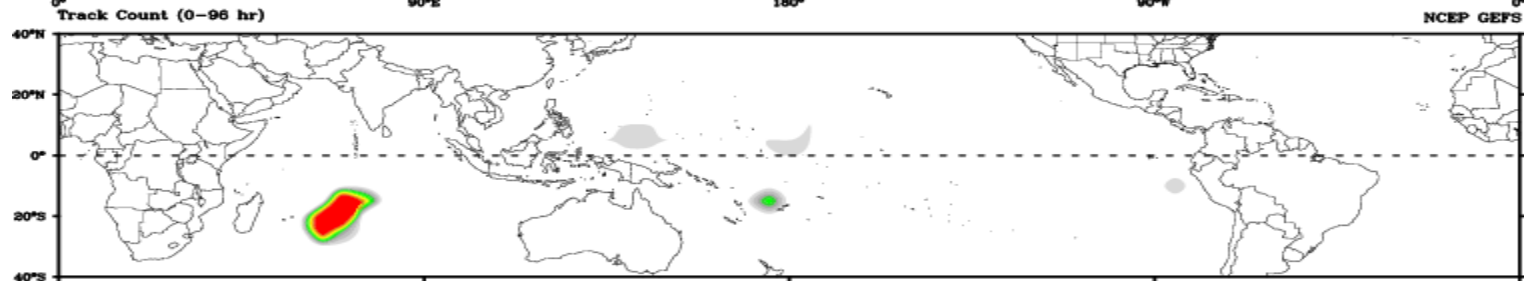


CFS: Anom. PREC Week: 2: 04-Mar-2015 to 10-Mar-2015 (mm/week)

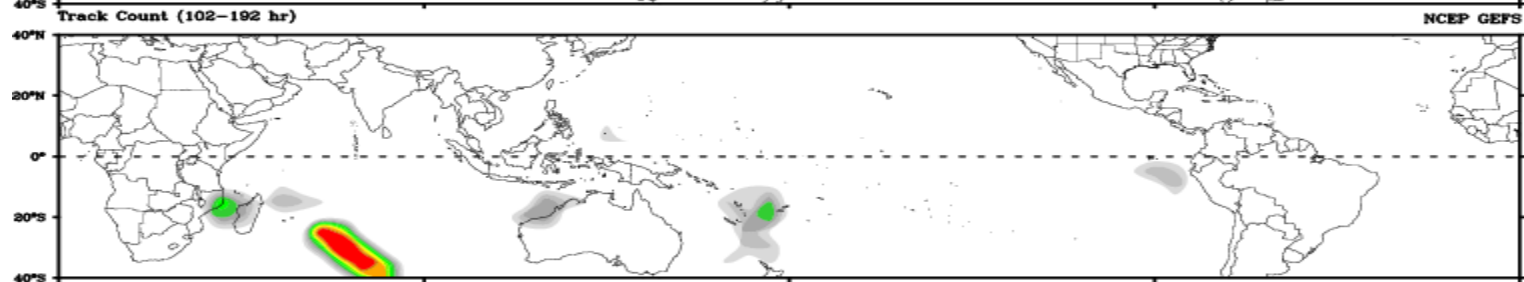




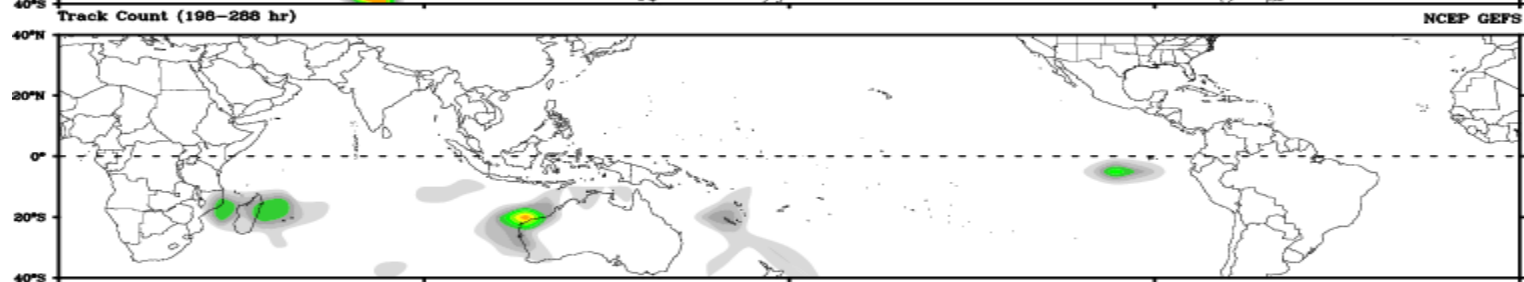
Days 1-4



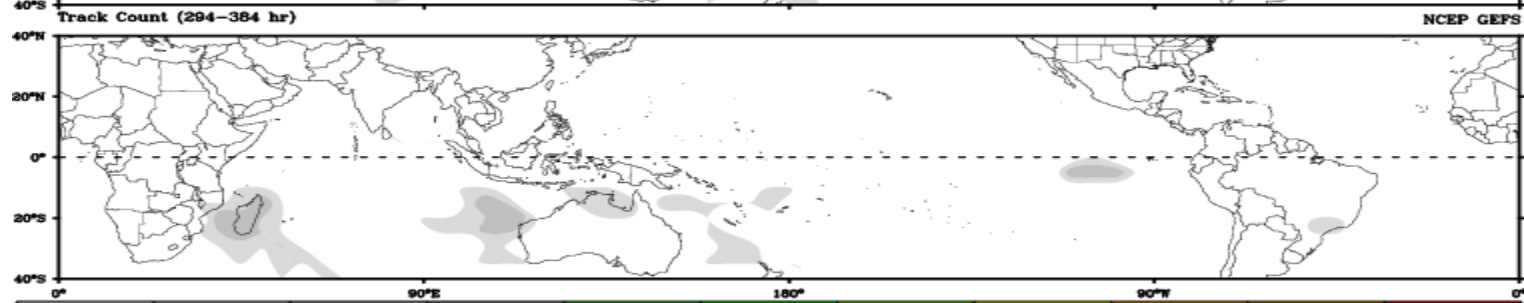
Day 5-8



Day 9-12

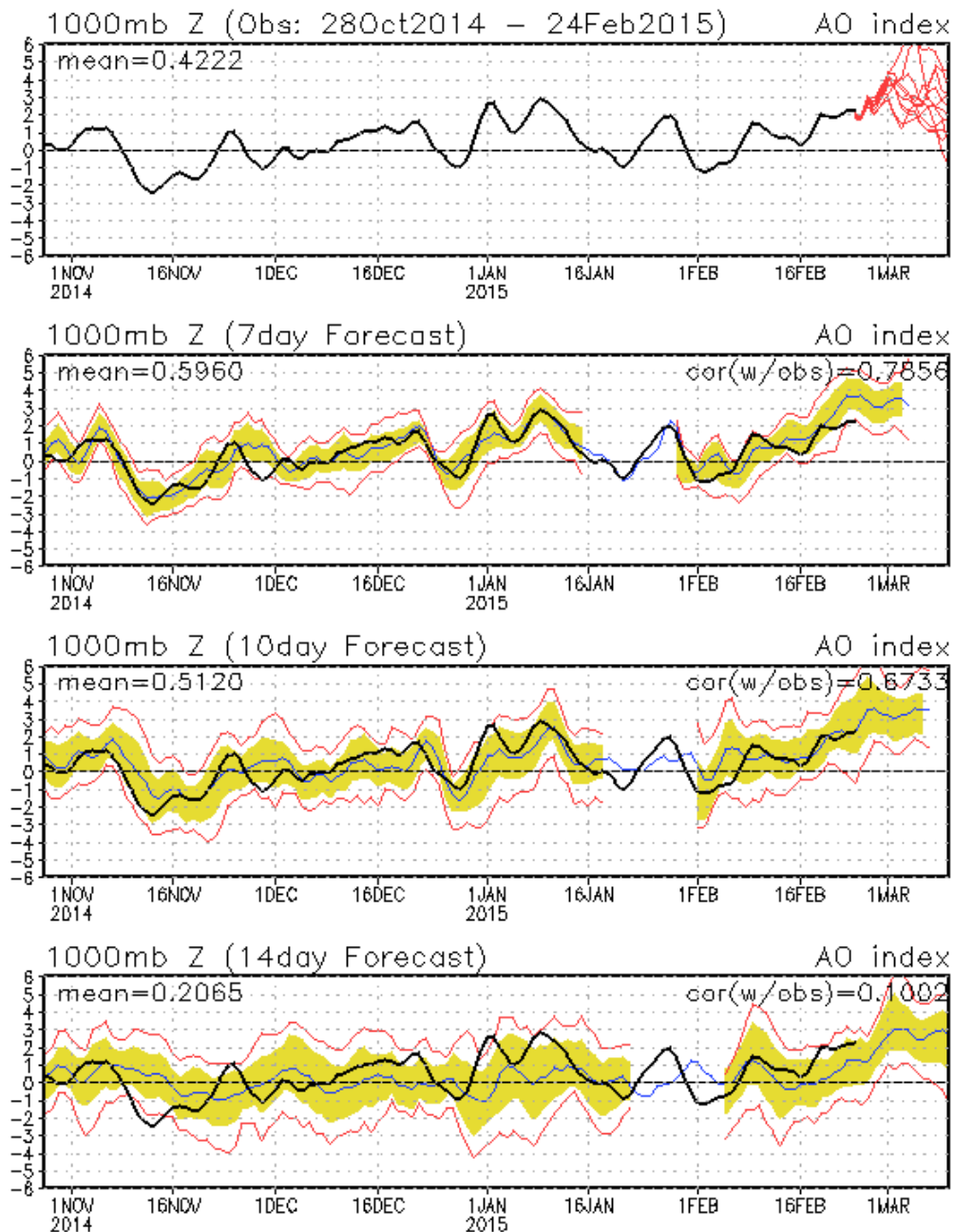


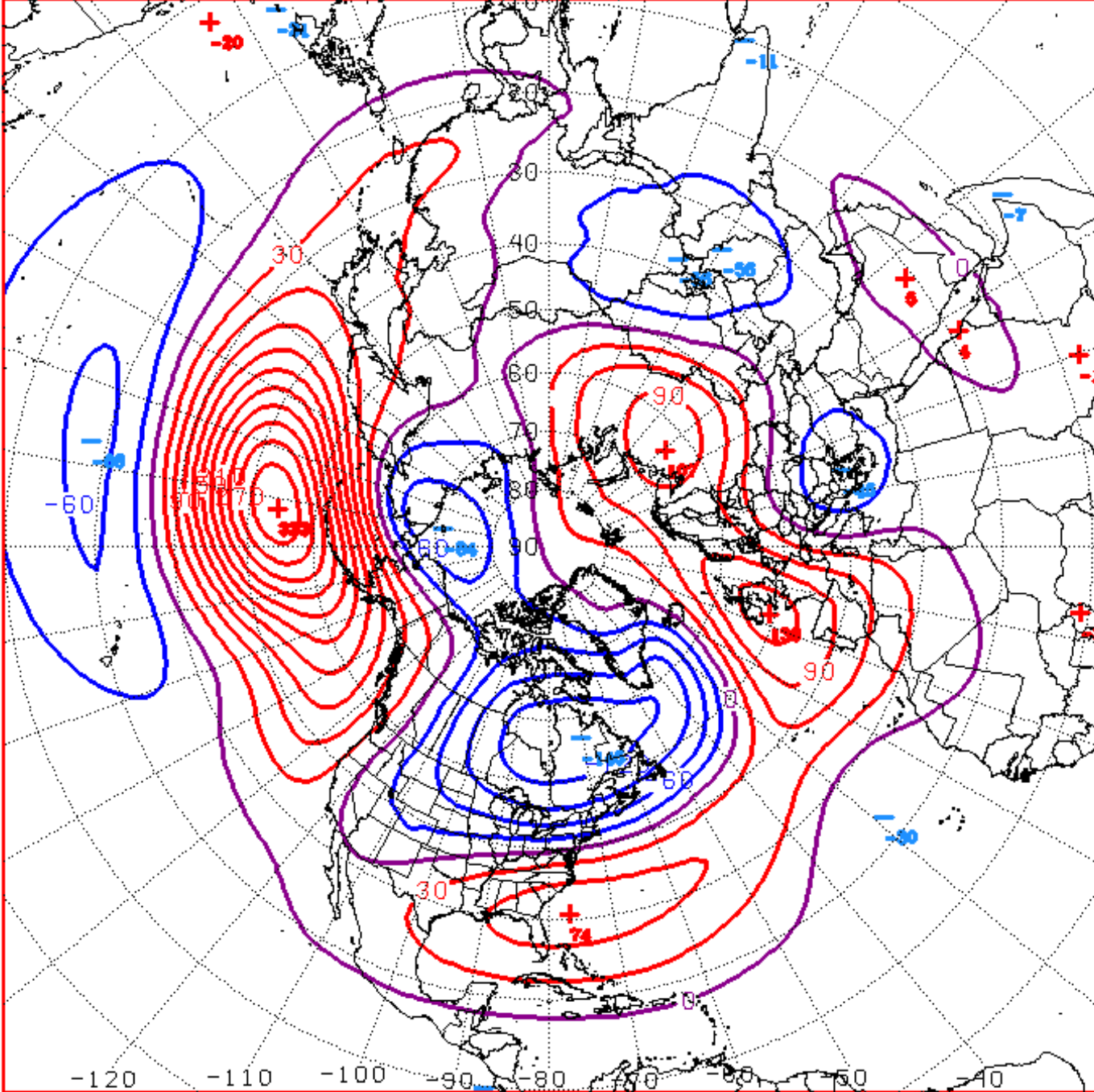
Day 13-15



Connections to U.S. Impacts

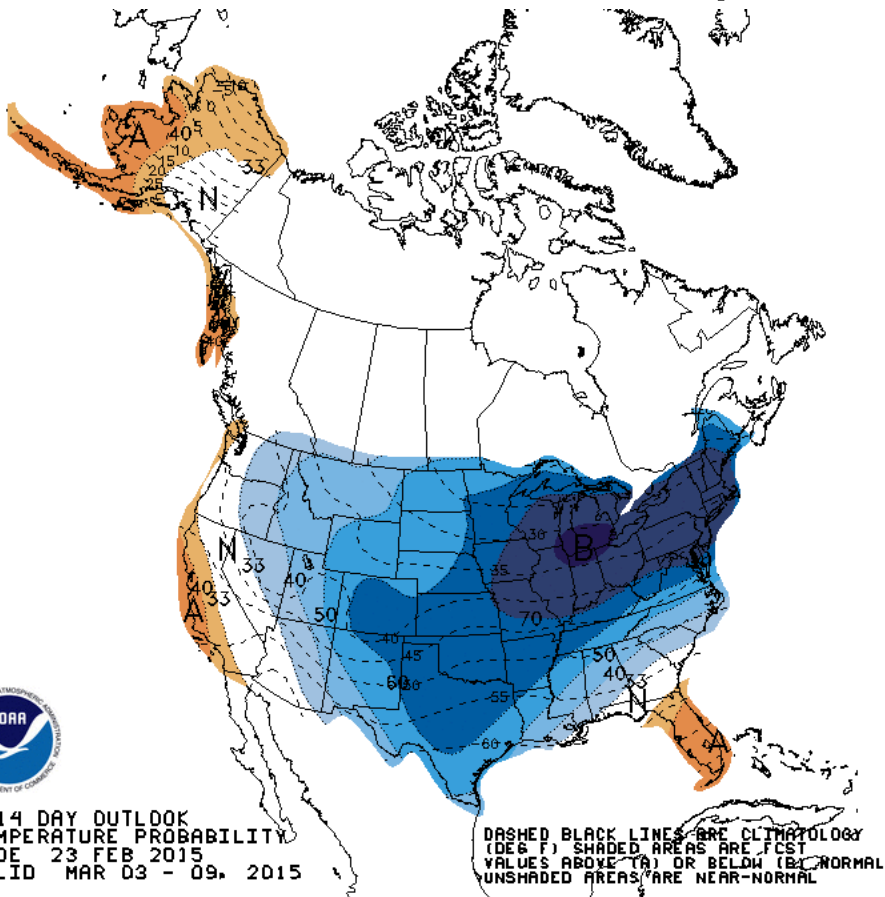
AO: Observed & ENSM forecasts



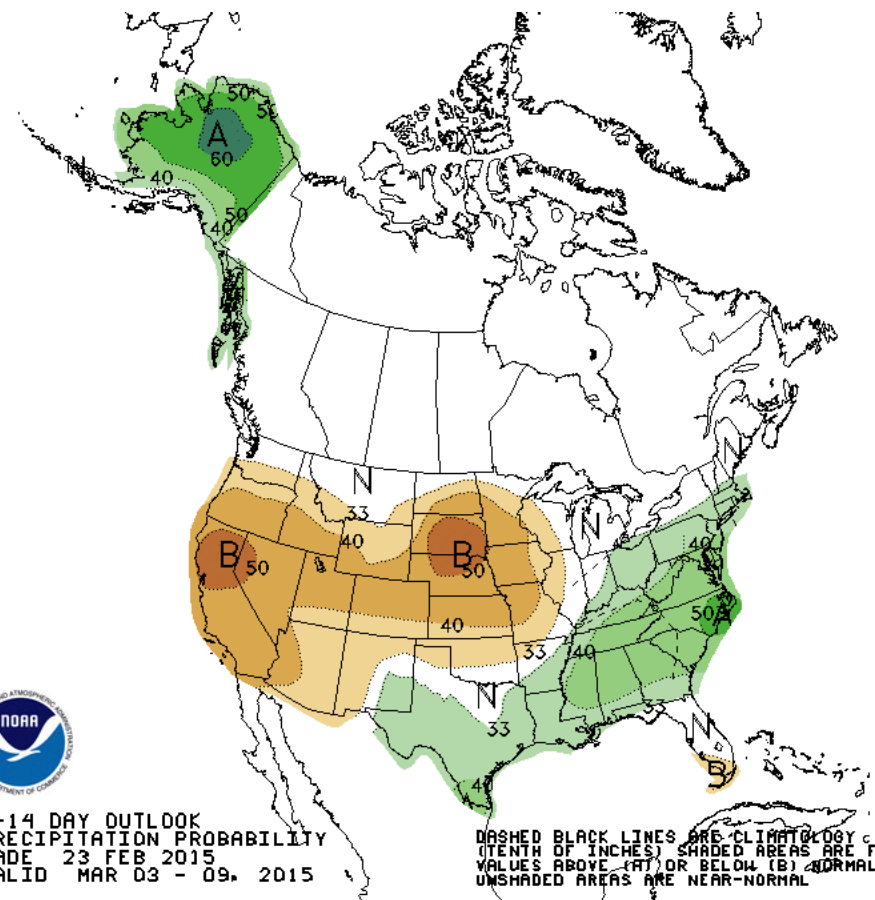
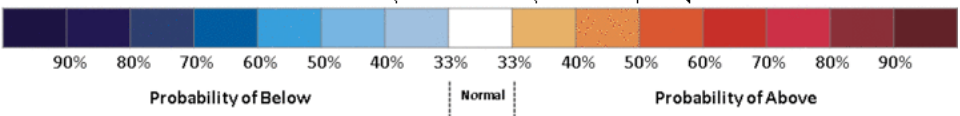


D+11 500 MB ANOMALIES FROM 00Z ECMM
CPC MAP MADE FEB 24 2015 1044 UTC CNTD MAR 07 2015

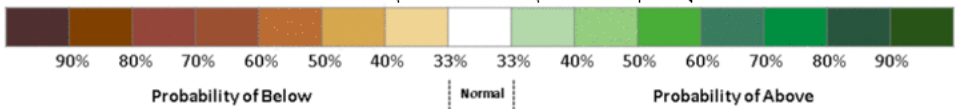
Week 2 – Temperature and Precipitation



8-14 DAY OUTLOOK
TEMPERATURE PROBABILITY
MADE 23 FEB 2015
VALID MAR 03 - 09, 2015



8-14 DAY OUTLOOK
PRECIPITATION PROBABILITY
MADE 23 FEB 2015
VALID MAR 03 - 09, 2015

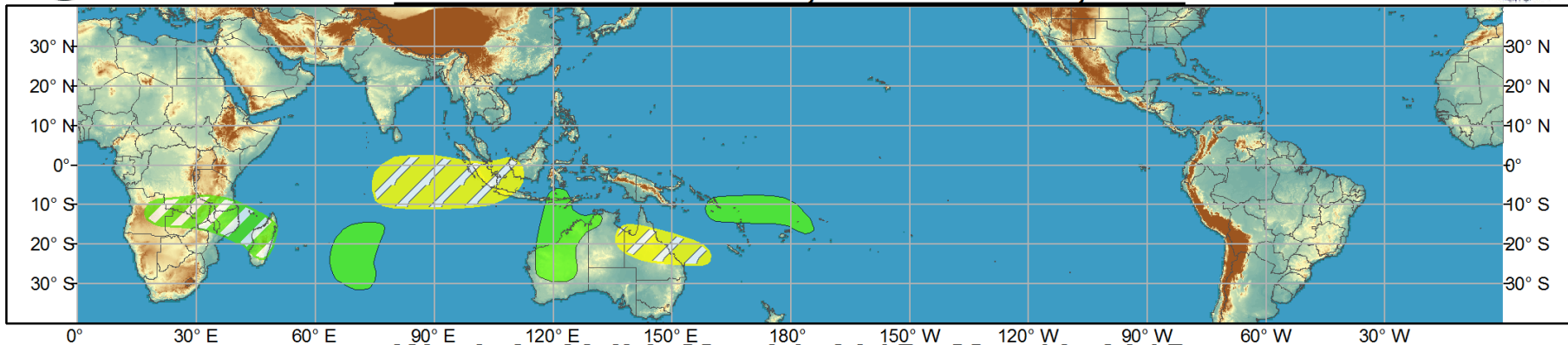




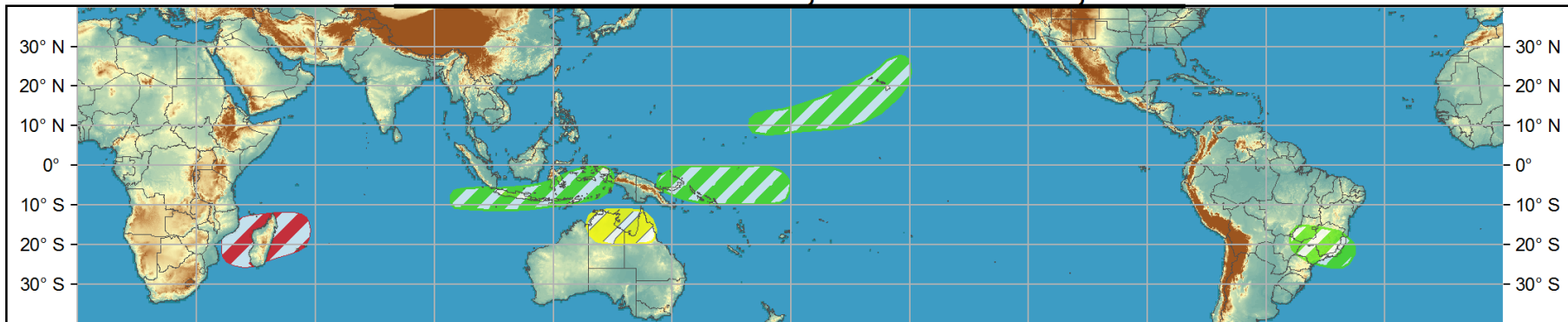
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Below-average rainfall



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.

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