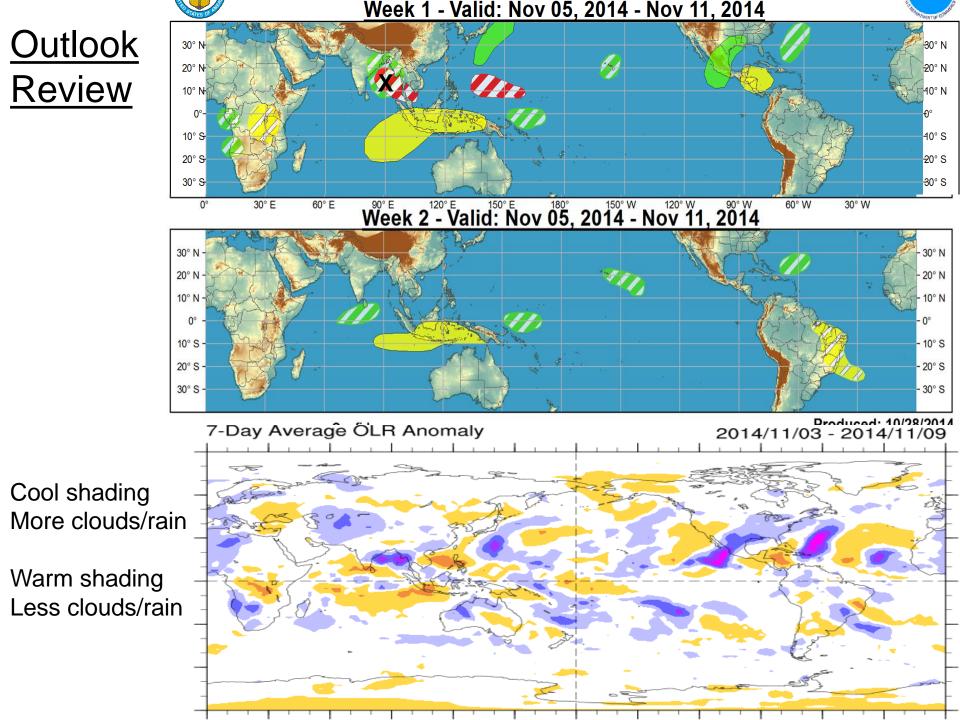
Global Tropics Hazards And Benefits Outlook November 11, 2014

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



Synopsis of Climate Modes

ENSO:

• There is a 58% chance of El Niño during the Northern Hemisphere winter, which is favored to last into the Northern Hemisphere spring 2015.

MJO and other subseasonal tropical variability:

- The amplitude of the RMM and CPC (velocity potential) indices increased during the past week, although eastward propagation of the signal has not been established at this time.
- Dynamical model MJO index forecasts generally support continued eastward propagation, although forecasted convective anomalies are weak over the Indian Ocean. Due to interference from the SST driven base state, it is unclear whether the signal will evolve into a more robust, long lived MJO event.
- Other modes, including westward moving features and extratropical interactions continue to influence the pattern.

Extratropics:

• There is high uncertainty regarding the potential for MJO evolution. A more robust Indian Ocean event, however, would potentially contribute to a warming trend across the eastern and central CONUS during late November or early December.



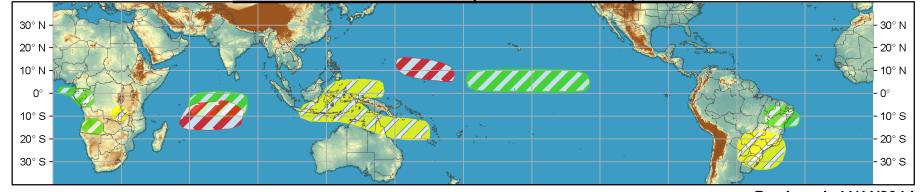
Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Nov 19, 2014 - Nov 25, 2014



Produced: 11/11/2014

Forecaster: Allgood

Tropical Cyclone Formation Development of a tropical cyclone (tropical depression - TD, or greater strength).

Above-average rainfall Weekly total rainfall in the upper third of the historical range.

Confidence High Moderate

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, 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.









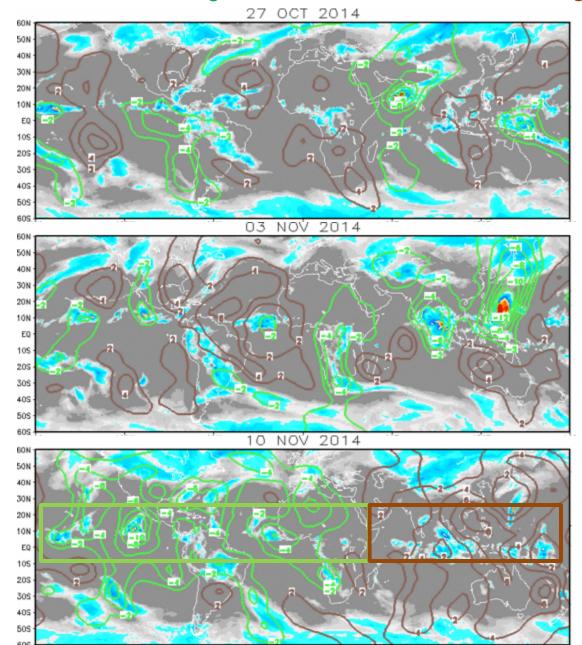






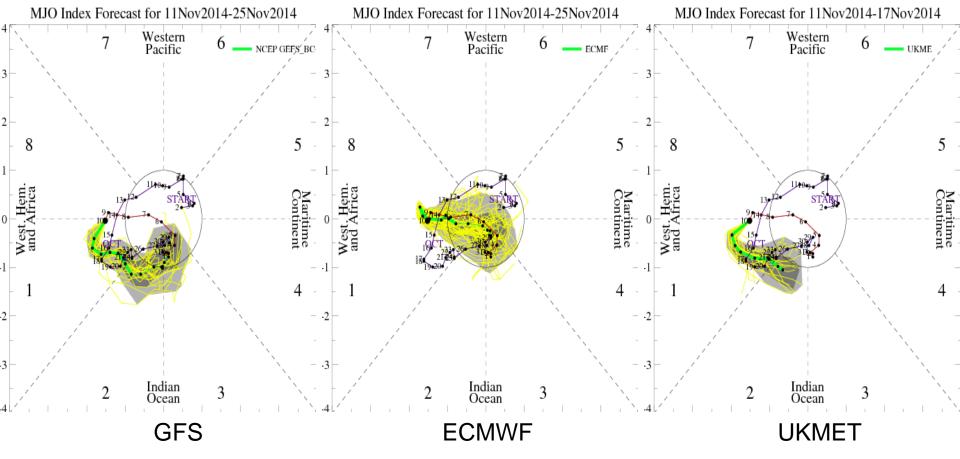
IR Satellite & 200-hpa Velocity Potential Anomalies

Green: Enhanced Divergence Brown: Enhanced Convergence



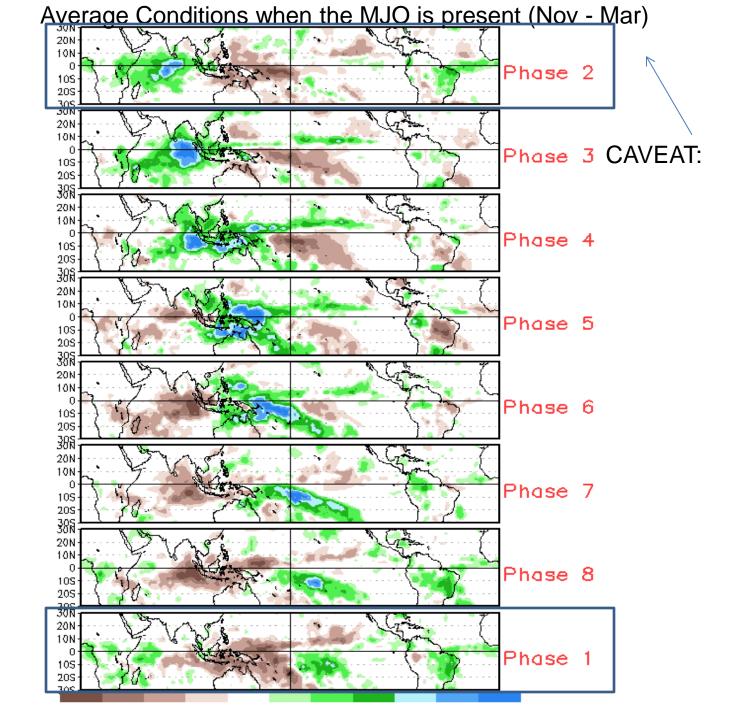
Wave-1 structure, but a lack of coherent eastward propagation (yet).

MJO Observation/Forecast



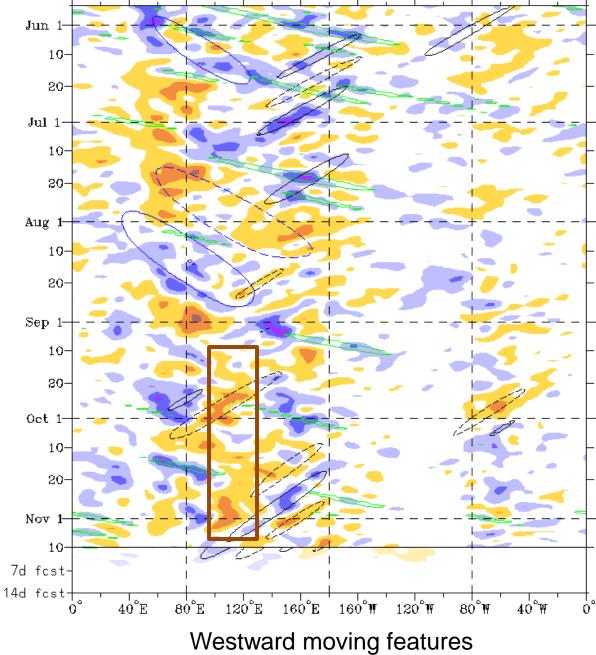
Several models (GFS, UKMET, Canadian, Japanese) depict an evolving MJO event.

The bias corrected ECMWF is an outlier, quickly weakening the signal by the end of Week-1.

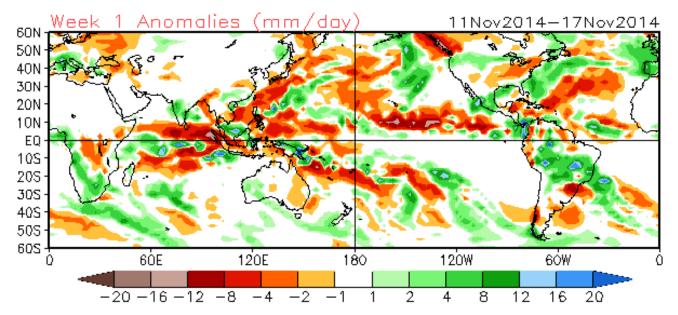


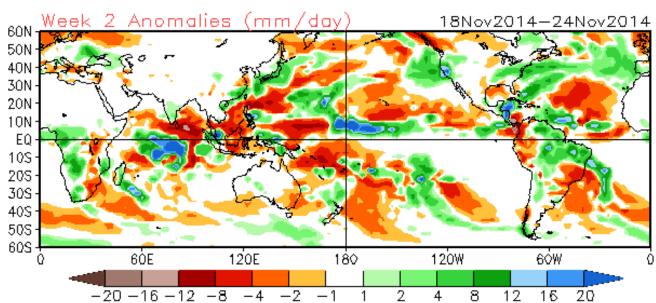
Persistent suppression has been observed over the Maritime Continent since mid-September (brown box)

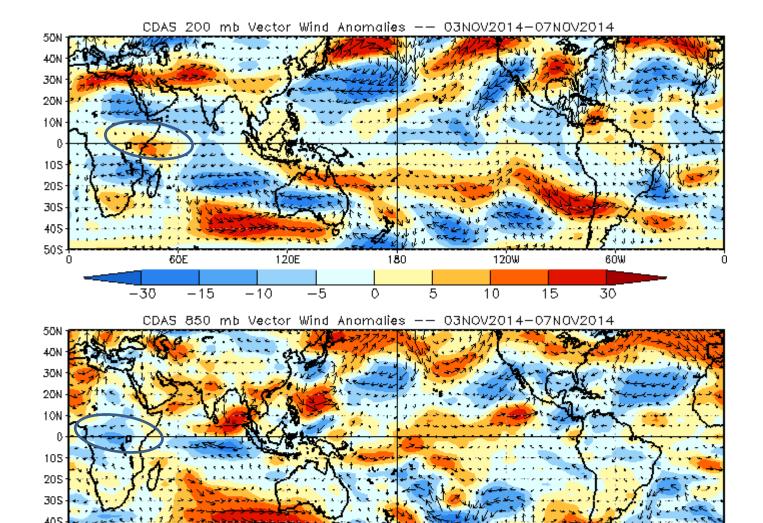
Kelvin Wave activity has generated enhanced convection east and west of the M.C., but there has been no long-lived MJO-like subseasonal signal.



Westward moving features evident west of the Date Line.







180

120W

8

6ÓW

12

120E

-2

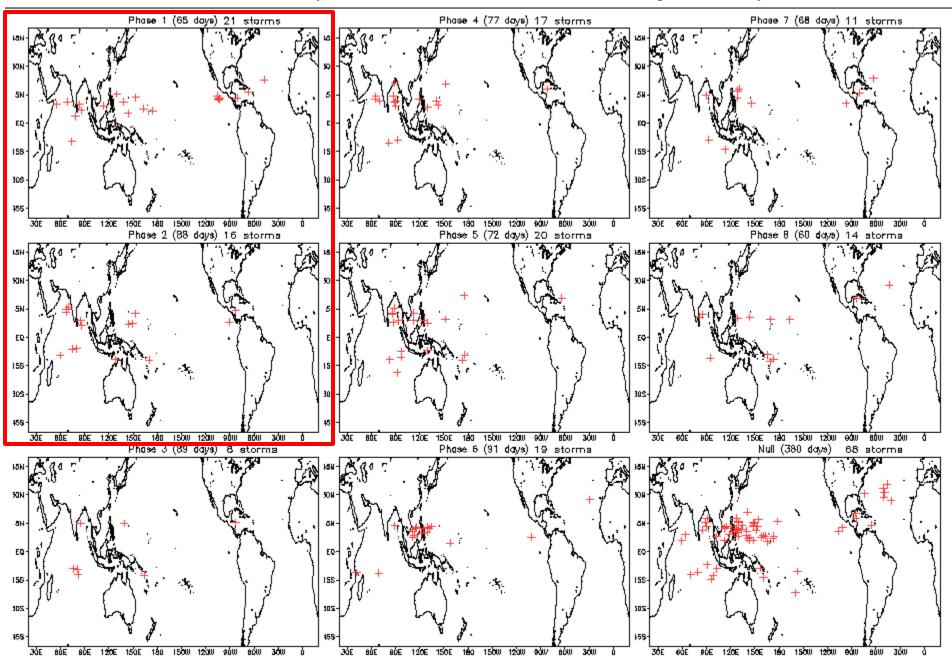
6ÔE

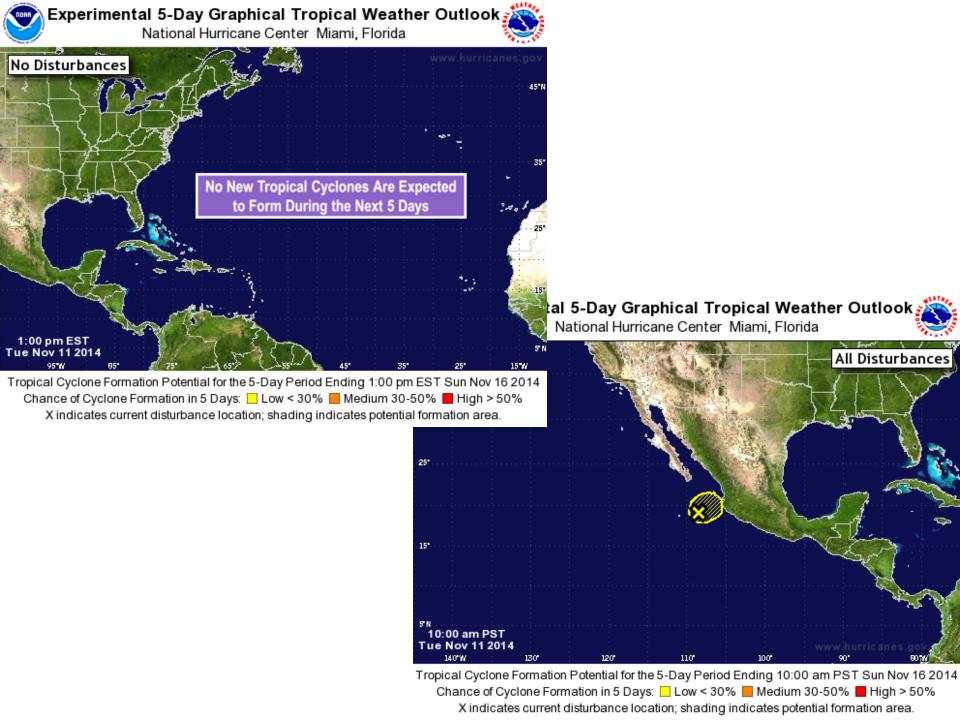
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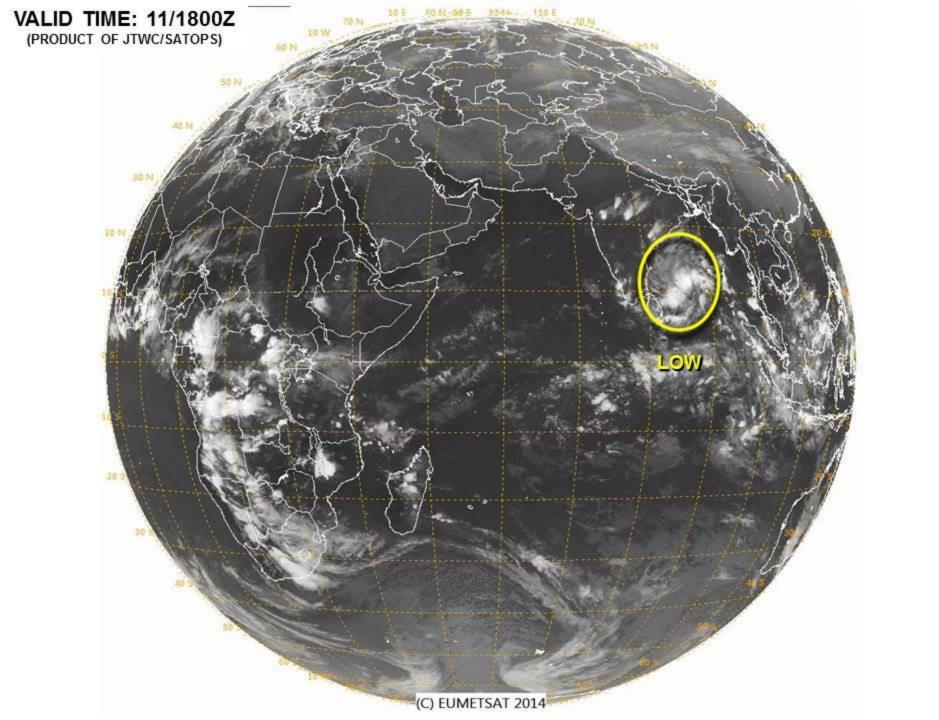
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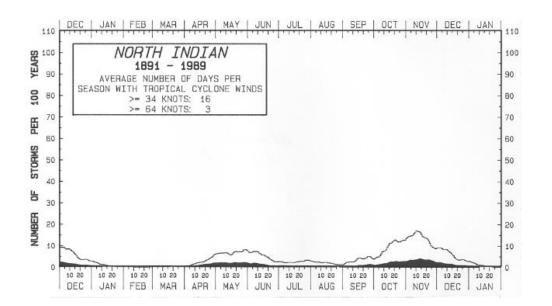
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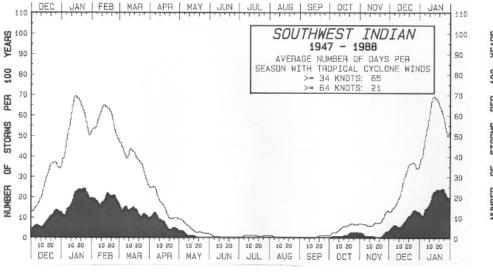
November Tropical Storm Formation by MJO phase

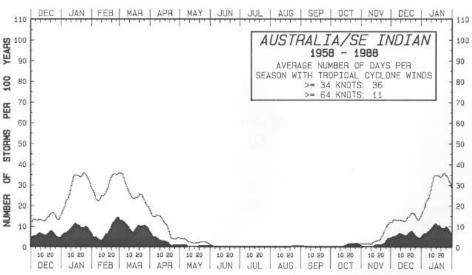




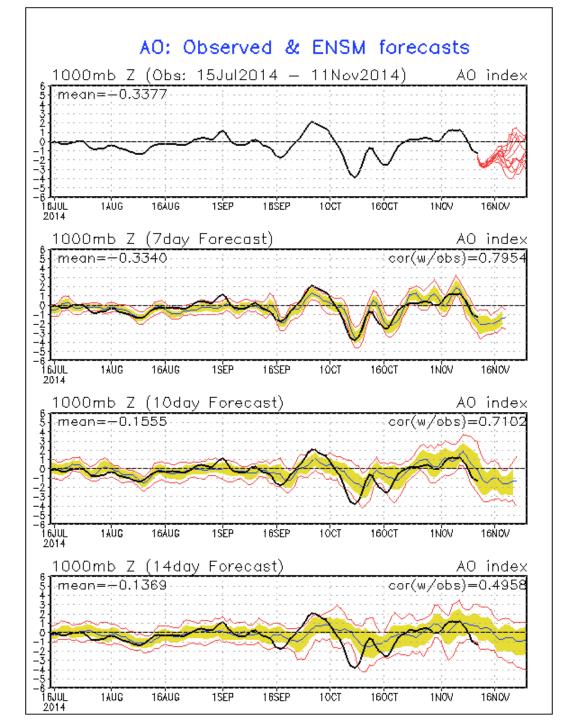


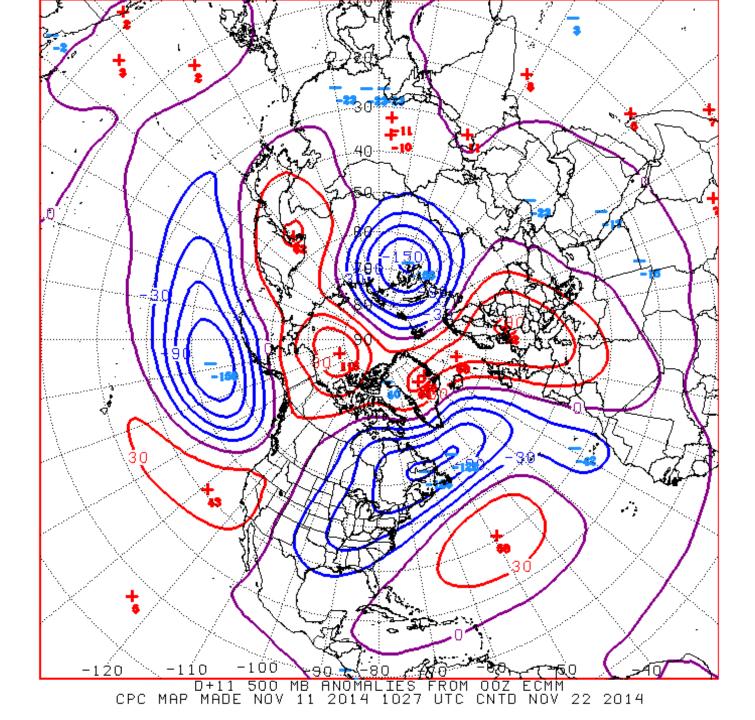




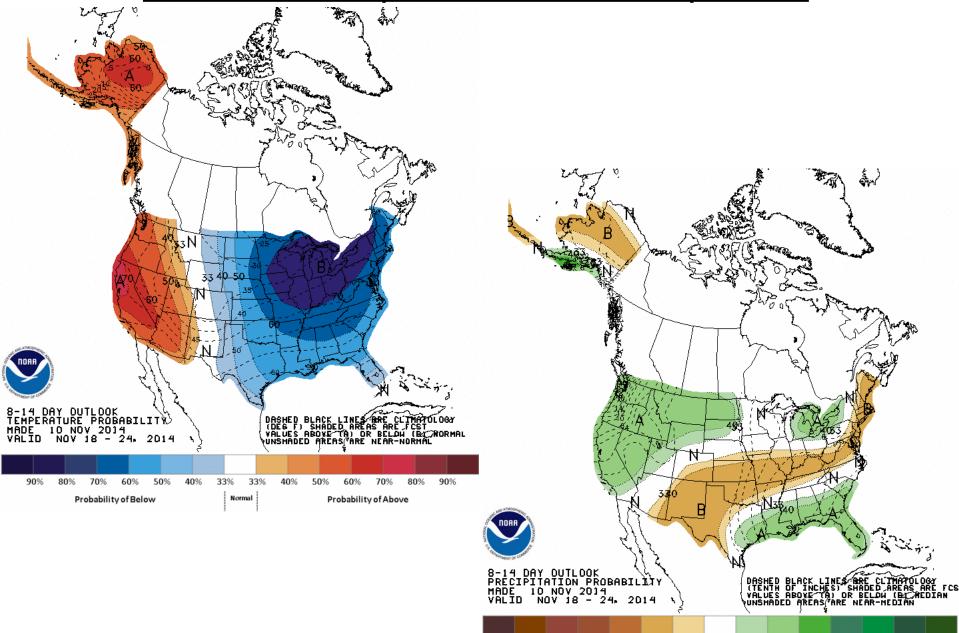


Connections to U.S. Impacts





Week 2 - Temperature and Precipitation



70%

Probability of Below

33%

Normal

Probability of Above



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