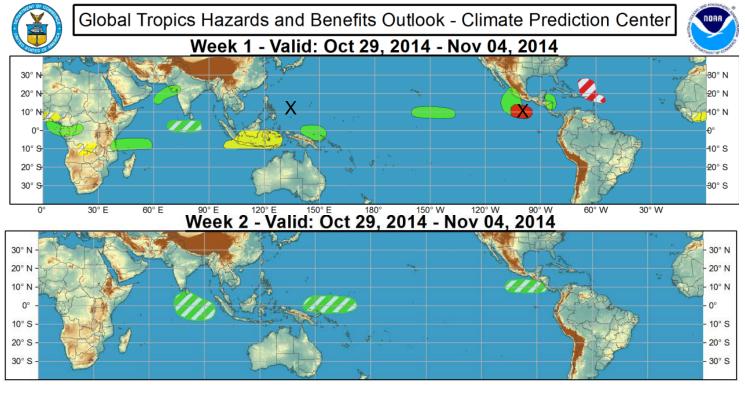
# Global Tropics Hazards And Benefits Outlook <u>November 4, 2014</u>

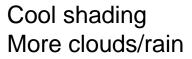
Stephen Baxter

### <u>Outline</u>

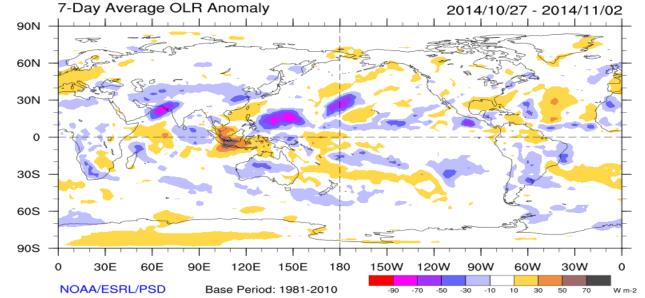
- 1. Review of Recent Conditions
- 2. Synopsis of Climate Modes
- 3. GTH Outlook and Forecast Discussion
- 4. Connections to U.S. Impacts

### Outlook Review





Warm shading Less clouds/rain



## Synopsis of Climate Modes

#### **ENSO**:

• El Niño is favored to be declared in the next month or so and last into the Northern Hemisphere spring 2015. Consensus among forecast tools is for a weak event.

### MJO and other subseasonal tropical variability:

- The MJO remains weak as competing signals interfere with the overall global tropical convective pattern.
- There is better agreement among models this week, though the GFS remains the only robust MJO solution during Week-2. GFS performance has been poor recently, suggesting that the ECMWF and other guidance that indicate little coherent MJO activity are favored. There is some consensus that a weak convective signal could emerge over the Indian Ocean during Week-2.

#### **Extratropics:**

• The dominant feature over the next 10 days is the recurving typhoon over the western Pacific, forecast to contribute to extreme amplification southwest of Alaska, with downstream wave dispersion favoring colder-than-normal and mostly drier-than-average conditions over the CONUS during the 6-14 day period. Beyond that, tropical subseasonal variability gives very little insight into the evolution of the extratropical climate.

#### Global Tropics Hazards and Benefits Outlook - Climate Prediction Center







Week 2 - Valid: Nov 12, 2014 - Nov 18, 2014



Produced: 11/04/2014

Forecaster: Baxter

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

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

Confidence 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.









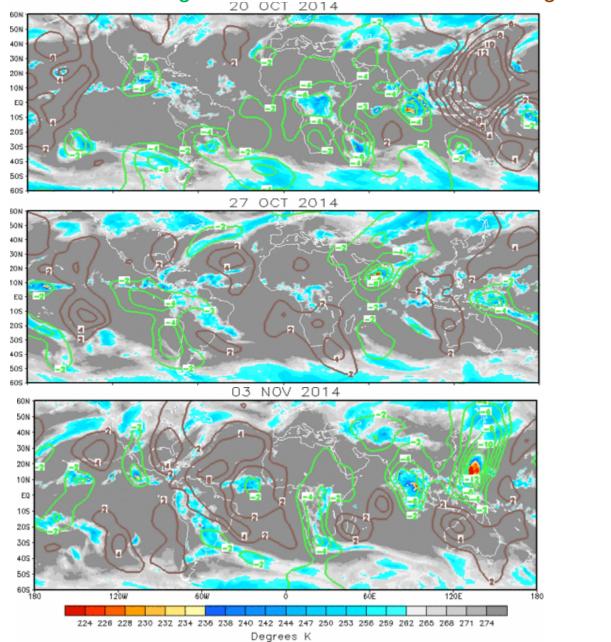




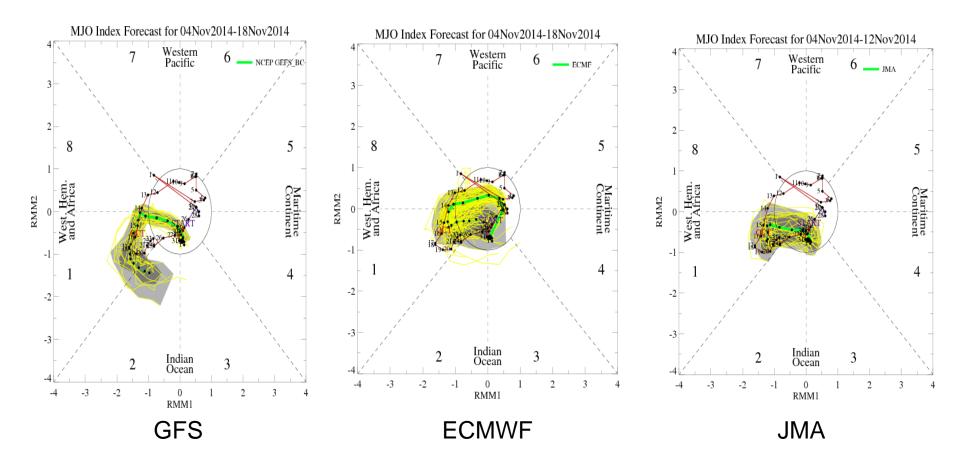


### IR Satellite & 200-hpa Velocity Potential Anomalies

Green: Enhanced Divergence Brown: Enhanced Convergence

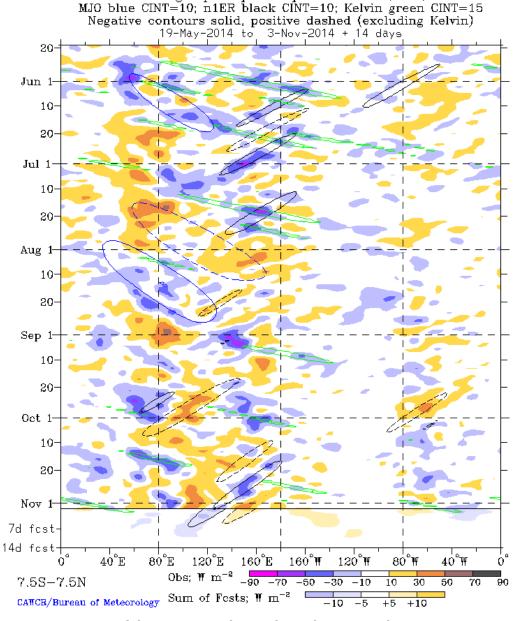


### MJO Observation/Forecast



Better agreement this week.

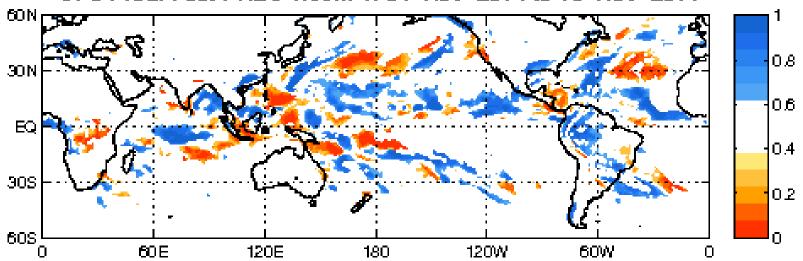
There is some eastward-moving Kelvin wave activity, competing with persistent drying near 100-120E. Westward-moving waves are also evident.



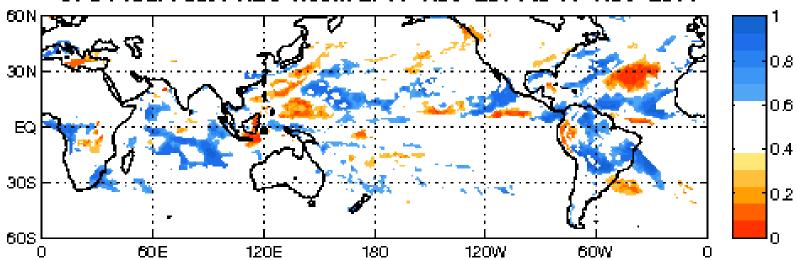
Real-time filtering superimposed upon 1-2-1 filt, R21, OLR Anoms

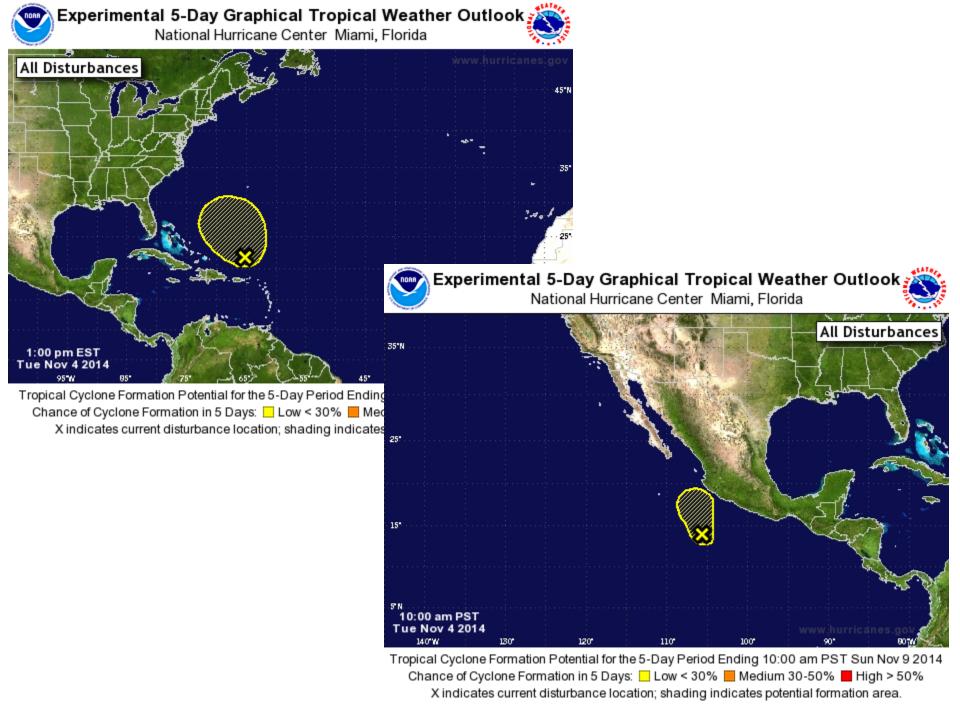
Note persisted enhanced convection over the East Pac.

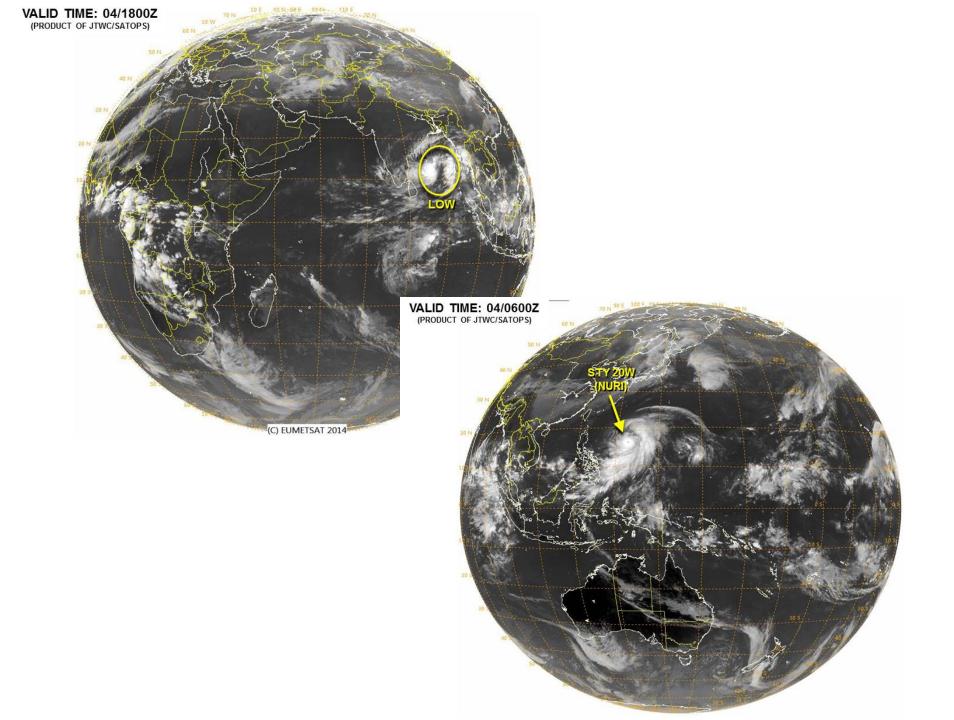
CFS Prob. Fest PREC Week: 1: 04-Nov-2014 to 10-Nov-2014

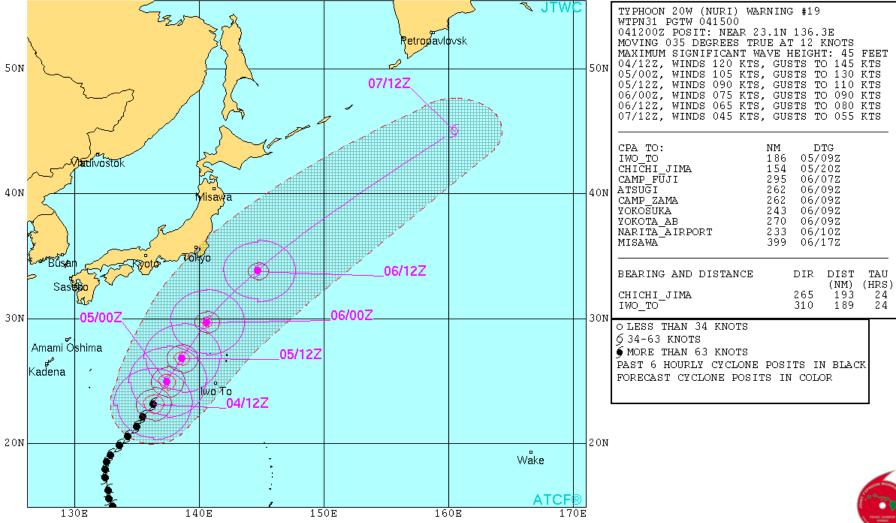


CFS Prob. Fcst PREC Week: 2: 11-Nov-2014 to 17-Nov-2014

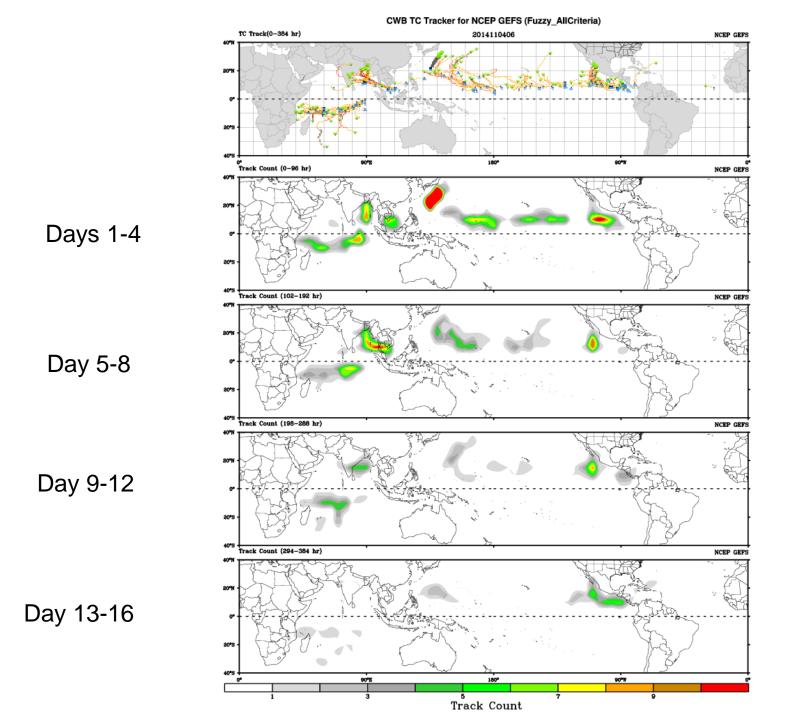




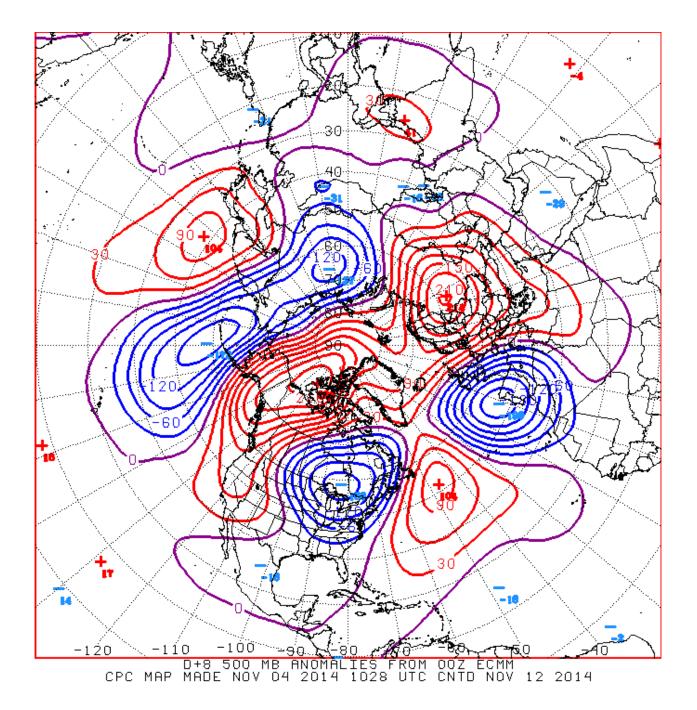




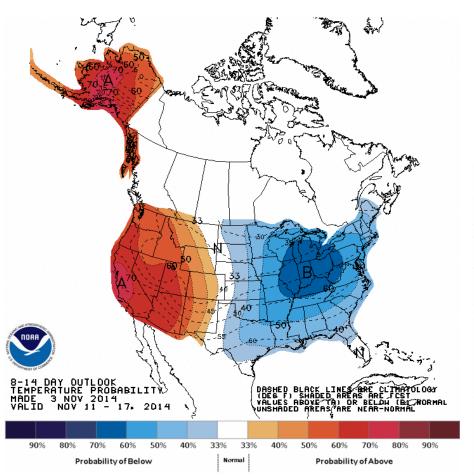


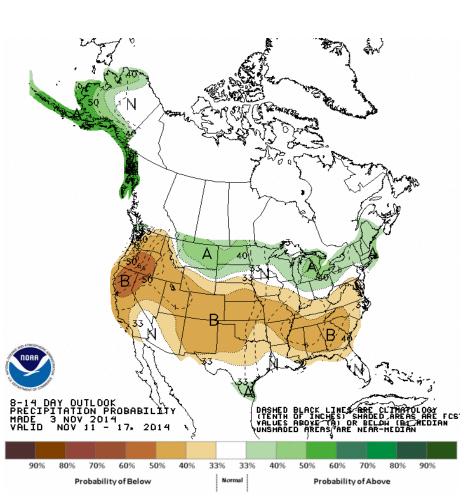


# Connections to U.S. Impacts



### Week 2 - Temperature and Precipitation





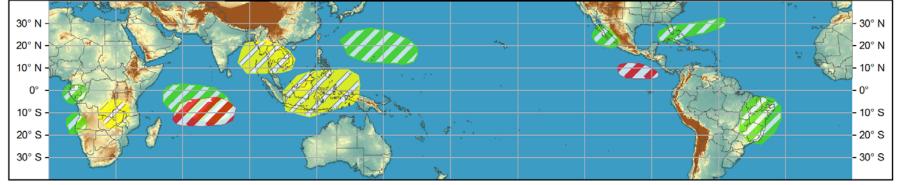
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