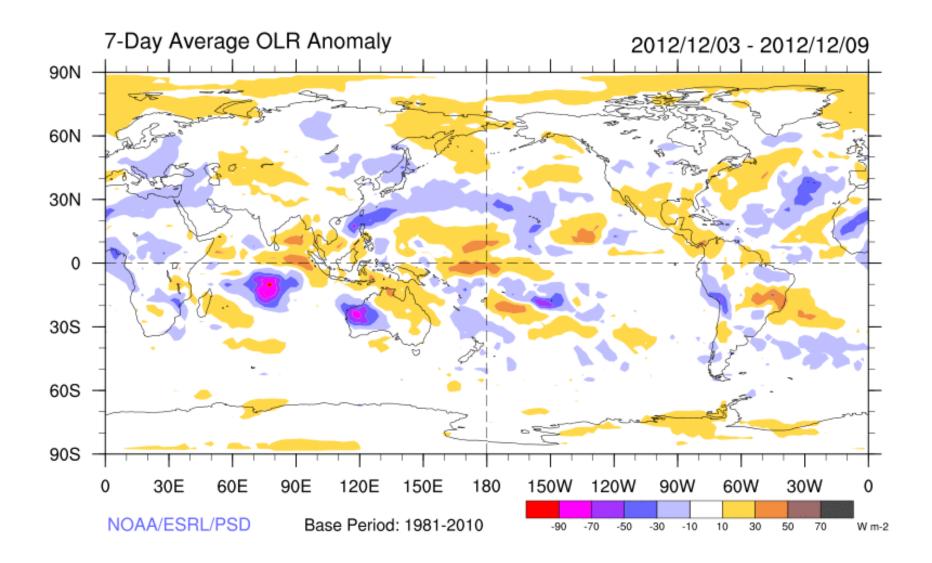
Global Tropics Hazards And Benefits Outlook December 11, 2012

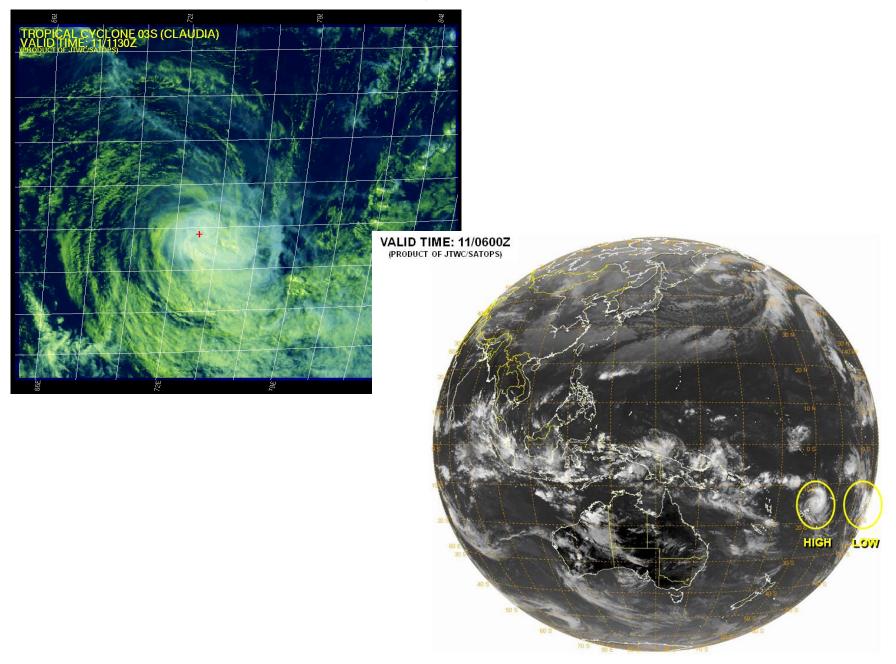
Stephen Baxter

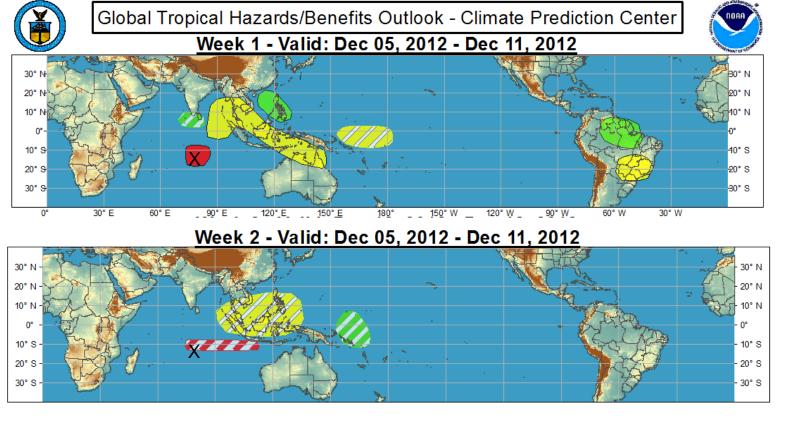
<u>Outline</u>

- 1. Review of Recent Conditions
- 2. Synopsis of Climate Modes
- 3. GTH Outlook and Forecast Discussion

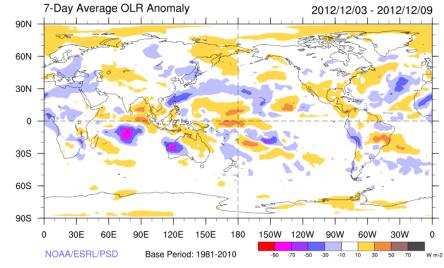


Tropical Cyclone Review





Outlook Review



Synopsis of Climate Modes

ENSO:

• ENSO-neutral conditions continue and ENSO-neutral is favored during the Northern Hemisphere winter 2012-13.

MJO and other subseasonal variability:

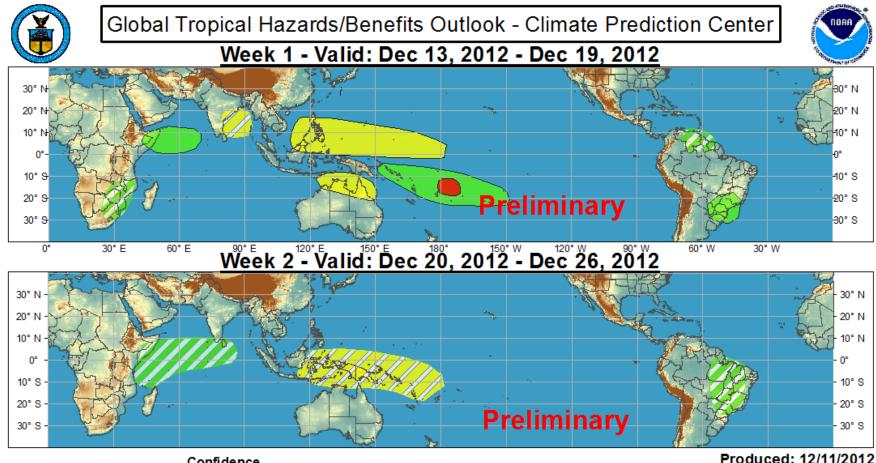
• The MJO has remained weak during the past week, while other sub-seasonal modes have become less coherent as well.

• Dynamical models are in better agreement that the MJO is more likely to emerge in phases 1 or 2 by late in Week-1.

• There is still some westward propagating convection associated with an equatorial Rossby wave.

Extratropics:

• AO/NAO forecast to be negative to neutral over the next two weeks. Additionally, a negative PNA pattern is expected, but not canonical. Tropical forcing of the mid-latitudes remains unclear at this time, but there is some potential interaction on the horizon with reinvigorated MJO.



Confidence

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

Forecaster: Baxter Development of a tropical cyclone that eventually reaches tropical storm/cyclone 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.

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.





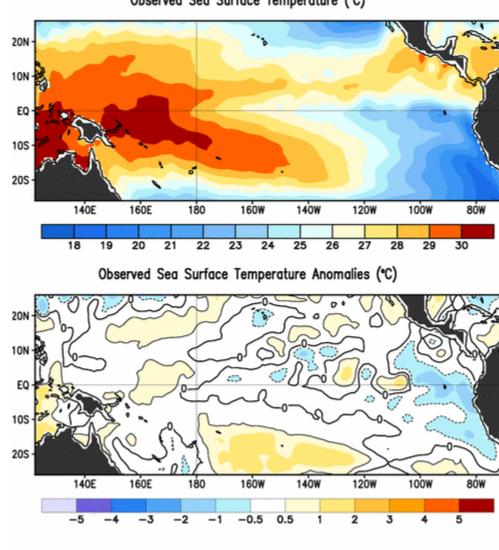








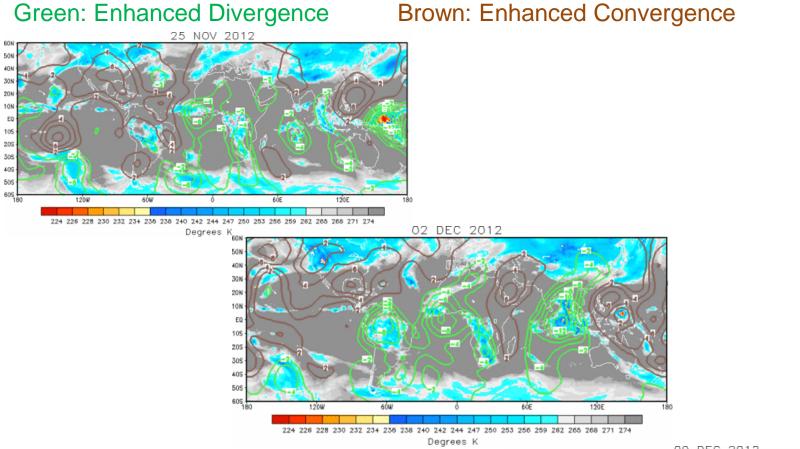
SST Observations

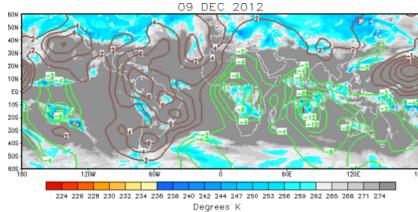


Observed Sea Surface Temperature (°C)

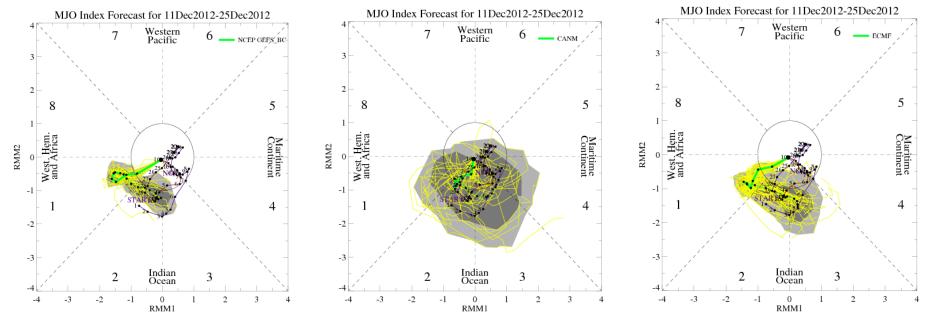
7-day Average Centered on 05 December 2012

IR Satellite & 200-hpa Velocity Potential Anomalies

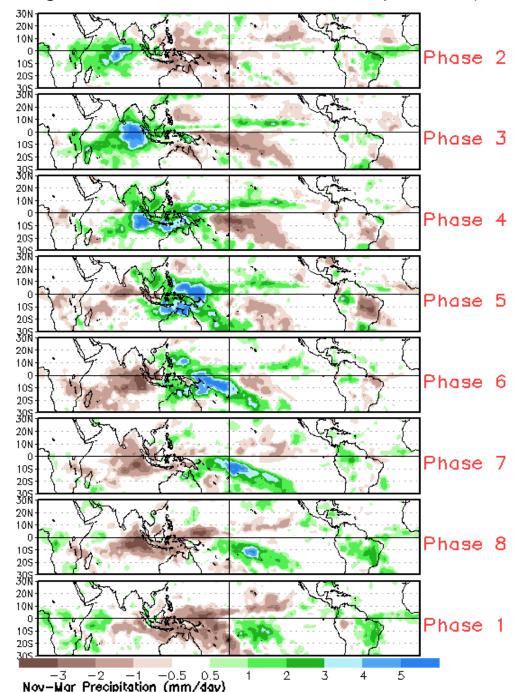


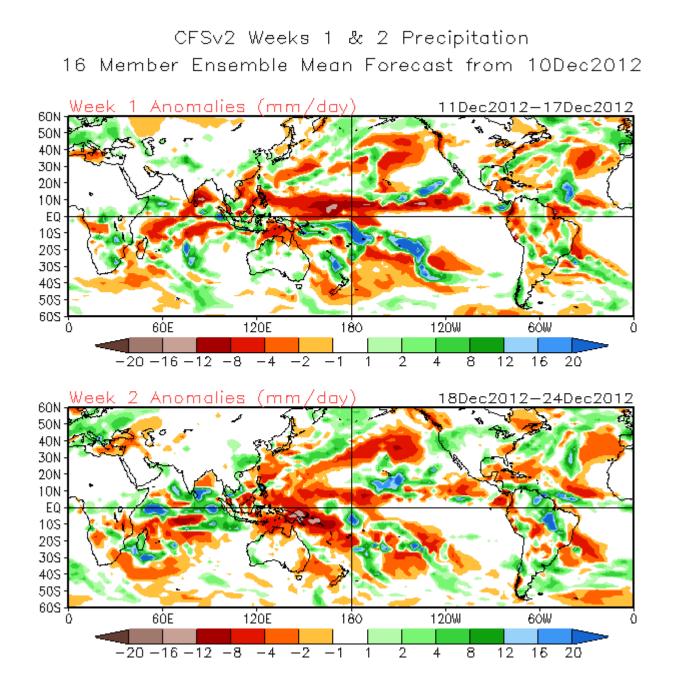


MJO Observation/Forecast

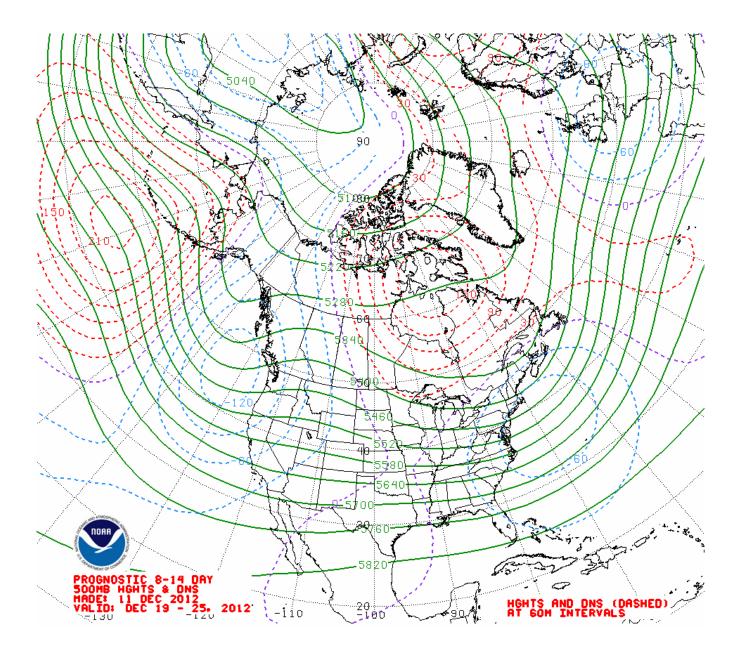


Average Conditions when the MJO is present (Nov-Mar)

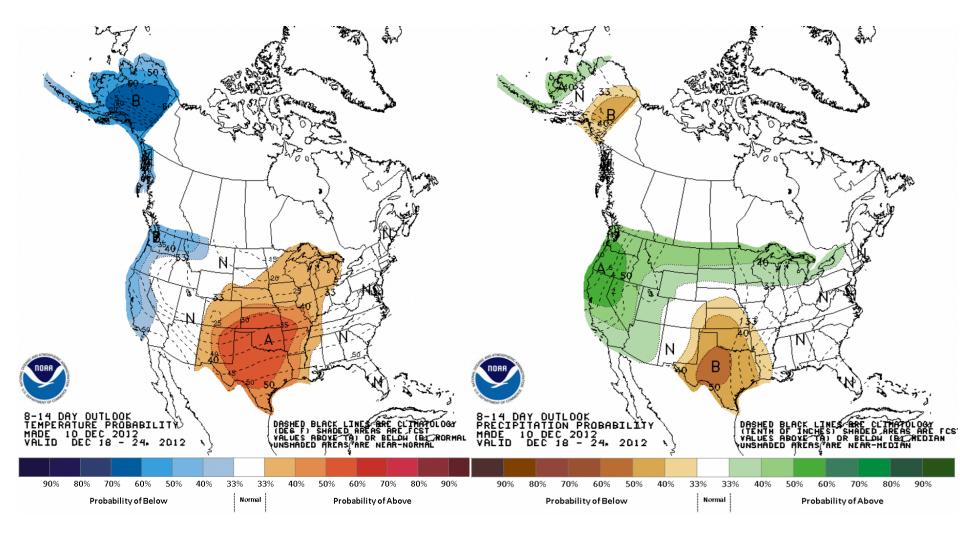




Week 2 500-hPa Manual Chart

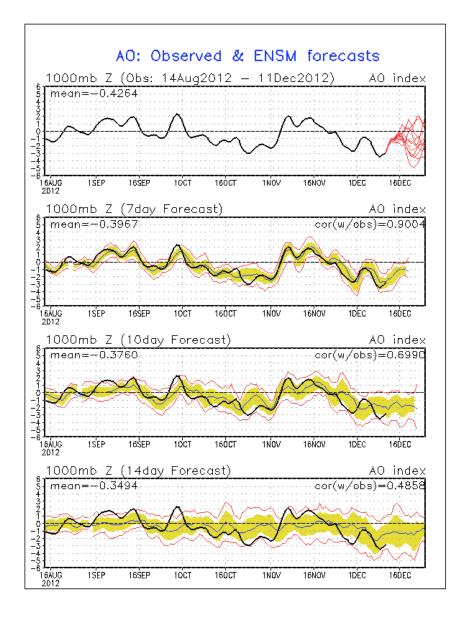


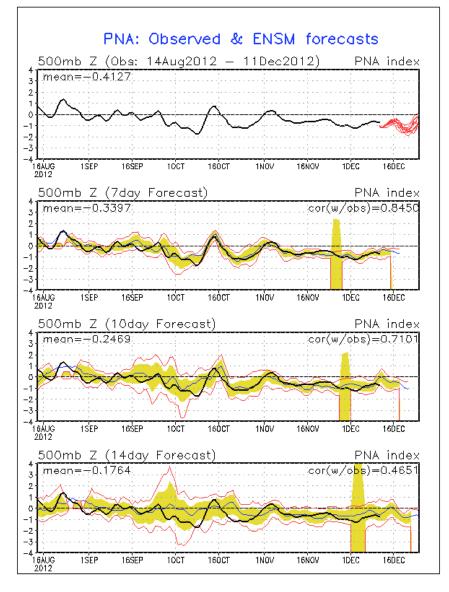
Week 2 -- Temperature and Precipitation



Recent AO and PNA Observations and GEFS

Forecast





Last Week's Observations and PNA/AO Composite

