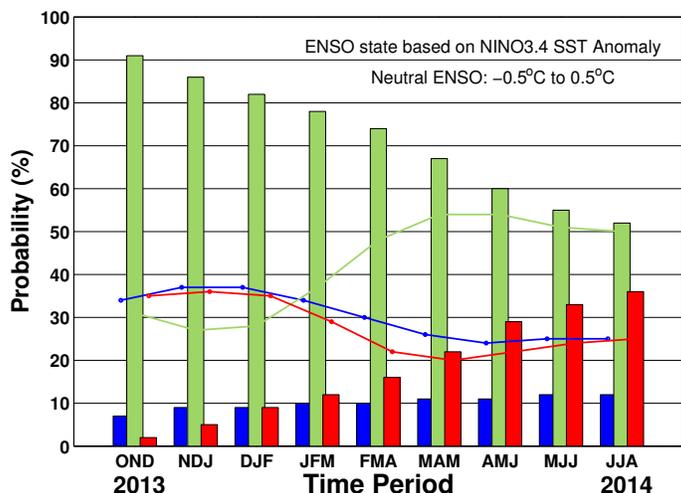


# ENSO QUICK LOOK November 21, 2013

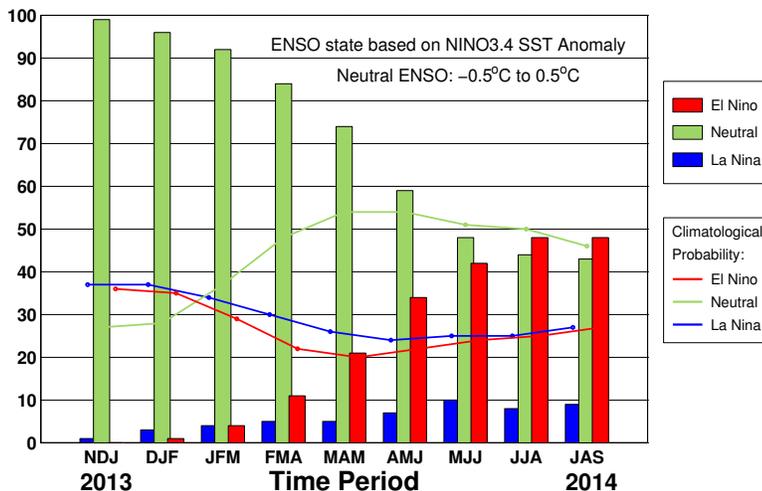
A monthly summary of the status of El Niño, La Niña and the Southern Oscillation, or “ENSO”, based on NINO3.4 index (120-170W, 5S-5N)

During October through mid-November the observed ENSO conditions remained neutral. Most of the ENSO prediction models indicate a continuation of neutral ENSO into the first quarter of 2014. During northern spring and summer a warming tendency is seen in both dynamical and statistical models.

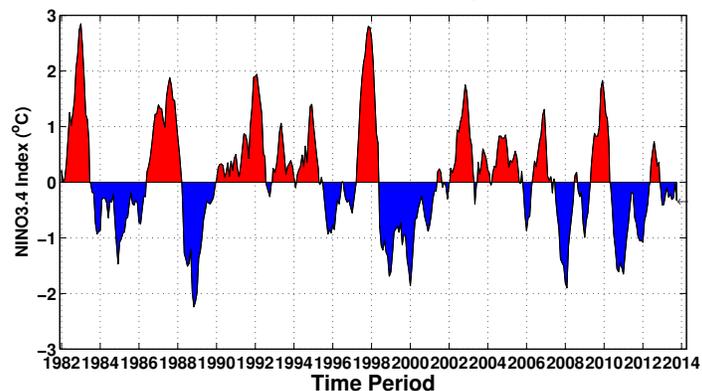
Early-Nov CPC/IRI Consensus Forecast<sup>1</sup>



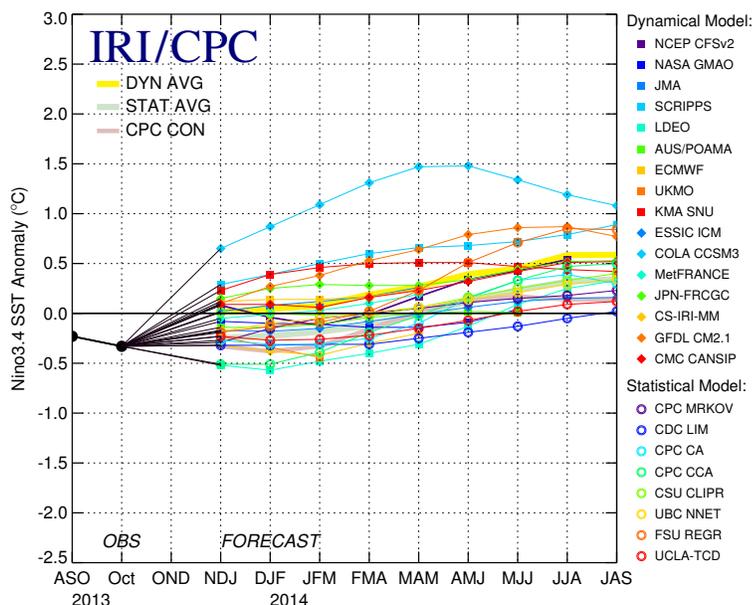
Mid-Nov IRI/CPC Plume-Based Forecast<sup>2</sup>



Historical Sea Surface Temperature Index



Mid-Nov 2013 Plume of Model ENSO Predictions



## Historically Speaking

*El Niño and La Niña events tend to develop during the period Apr-Jun and they:*

- Tend to reach their maximum strength during Dec-Feb
- Typically persist for 9-12 months, though occasionally persisting for up to 2 years
- Typically recur every 2 to 7 years

<sup>1</sup>Based on a consensus of CPC and IRI forecasters, in association with the official CPC/IRI ENSO Diagnostic Discussion.

<sup>2</sup>Purely objective, based on regression, using equally weighted model predictions from the plume.