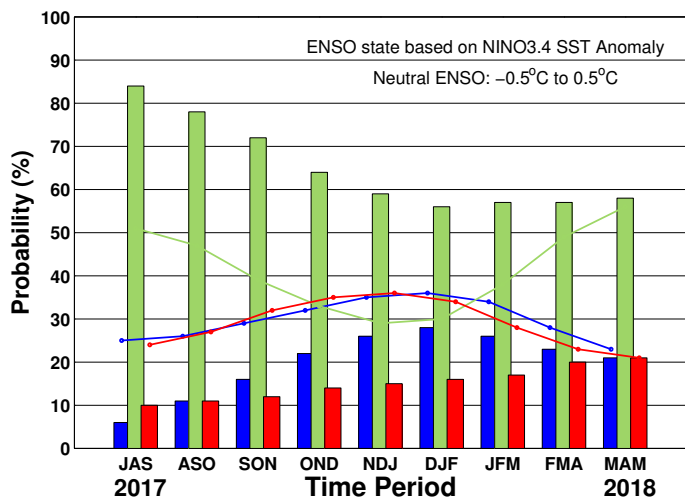


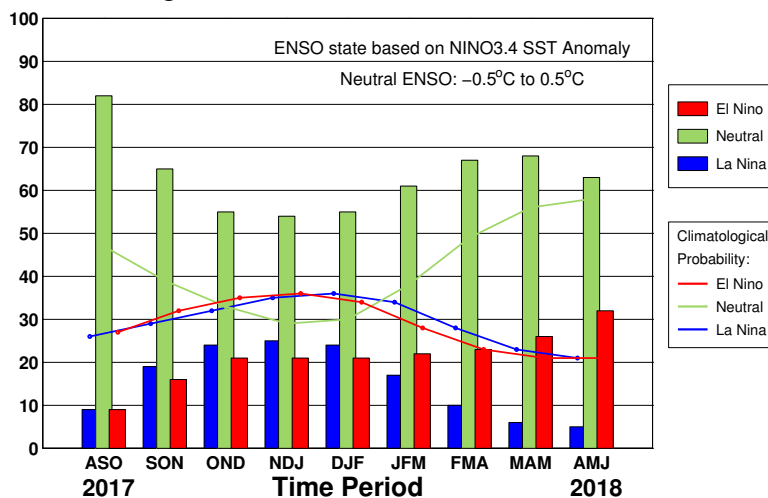
ENSO QUICK LOOK Aug 18, 2017 A monthly summary of the status of El Niño, La Niña and the Southern Oscillation, or “ENSO”, based on NINO3.4 index (120-170W, 5S-5N)

In mid-August 2017, the tropical Pacific remained in an ENSO-neutral state, with near-average SSTs in the east-central tropical Pacific and the atmosphere also maintaining ENSO-neutral patterns. The collection of latest ENSO prediction models indicates ENSO-neutral as the most likely condition through Northern Hemisphere fall and into winter, with chances for El Niño or La Niña development less than one-half that for neutral.

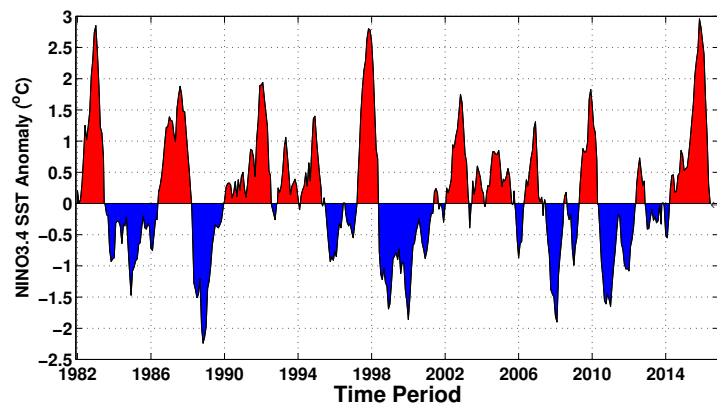
Early-Aug CPC/IRI Official Forecast¹



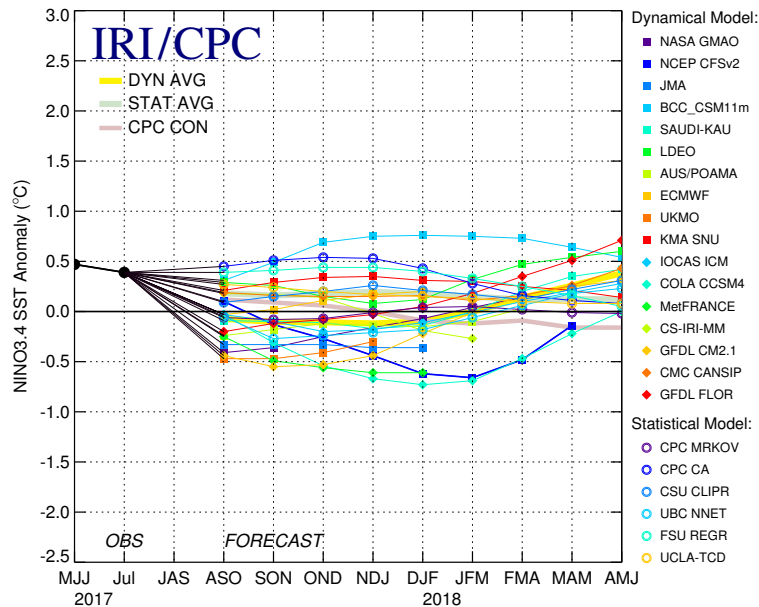
Mid-Aug IRI/CPC Model-Based Forecast²



Historical NINO3.4 SST Anomaly



Mid-Aug 2017 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

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

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