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**Climate Impact Company Global Climate Report**

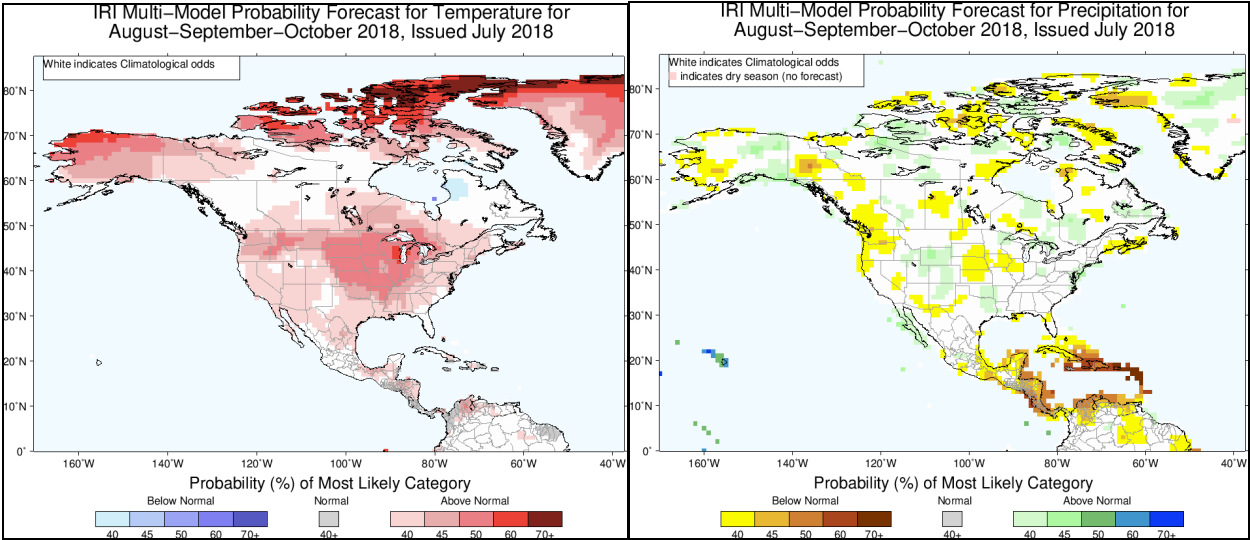
**Comparing CIC & IRI Climate Forecasts through SEP/OCT/NOV 2018**

*A lot of disagreement contributed to by ENSO uncertainty*

**Thursday July 19, 2018**

Comments made are based on Climate Impact Company constructed analog climate forecasts issued over the past couple weeks compared to probability forecasts issued by the International Research Institute for Climate and Society earlier today. Charts are provided for agriculture hot spots.

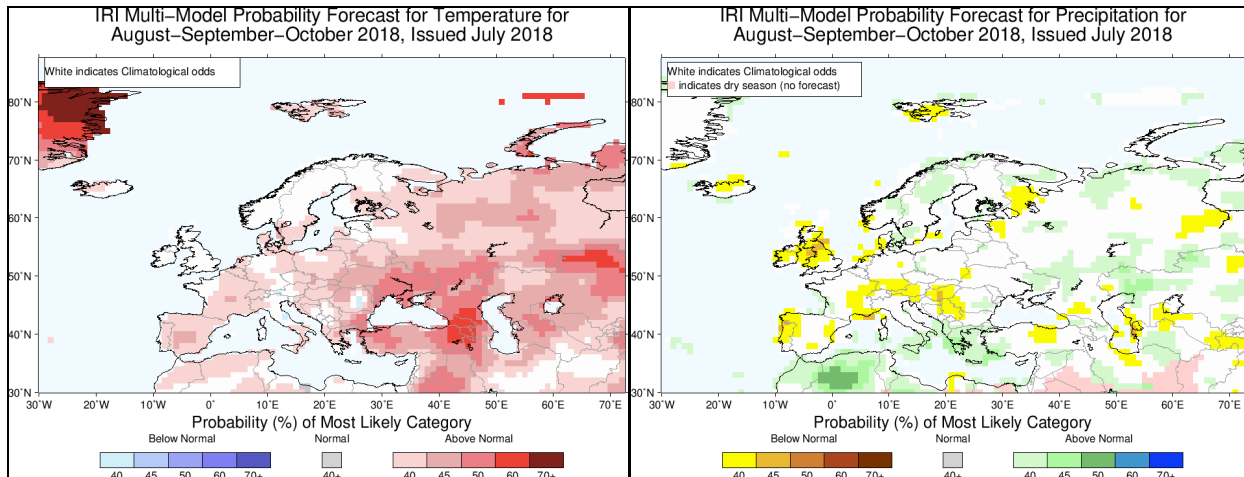
**North America: CIC not nearly as warm as IRI in Corn Belt.**



***Fig. 1-2: The IRI temperature and precipitation probability forecast for AUG/SEP/OCT 2018 across North America is indicated. In the Corn Belt the IRI forecast indicates anomalous warm risk whereas the Climate Impact forecast is much cooler.***

There is a big discrepancy in the late summer/early autumn forecast between CIC and IRI (*Fig. 1-2*). The CIC and IRI forecasts are similarly dry in the Corn Belt. However, a large discrepancy exists with the temperature outlook. The IRI forecast is high probability of anomalous warmth centered on the Corn Belt for late summer/early autumn while CIC is temperate to cooler than normal.

### Europe/Western Russia: CIC wetter than IRI.



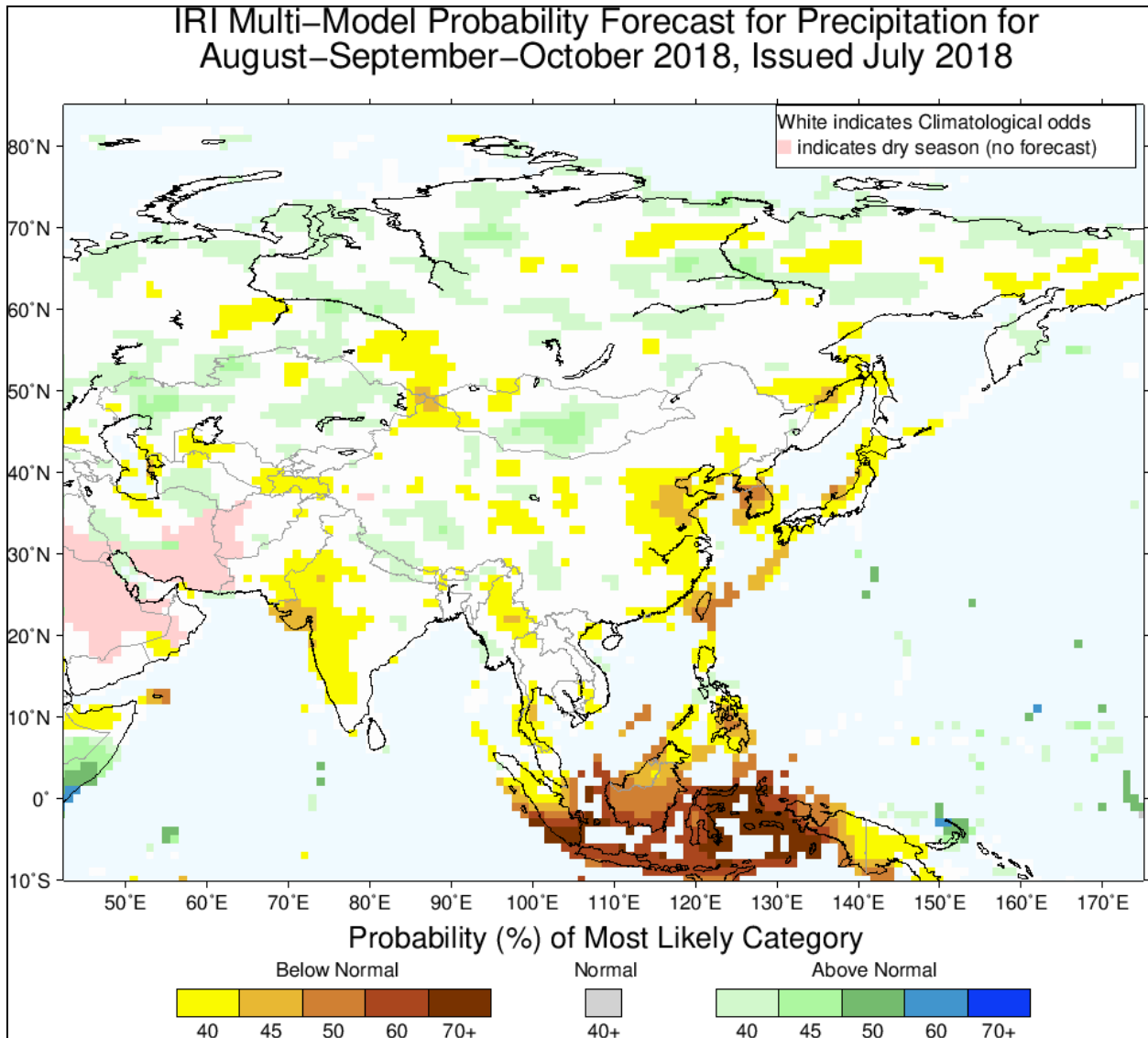
*Fig. 3-4: The IRI temperature and precipitation probability forecast for AUG/SEP/OCT 2018 across Europe and Western Russia is indicated. The CIC forecast is wetter than IRI for western and southern portions of Europe and the Black Sea region.*

The AUG/SEP/OCT 2018 precipitation forecast across Europe is extremely critical due to the drought causing widespread water shortages and lowering river levels. The IRI forecast indicates anomalous warmth and dryness continues (*Fig. 3-4*). The CIC forecast is somewhat wetter for western and southern Europe (and similarly warmer than normal).

In Western Russia the IRI forecast is warmer than normal with greatest risk in the Black Sea region. Southwest Russia is wetter than normal while the Black Sea region is drier than normal. The CIC outlook for Western Russia is different. The Black Sea region is near to wetter than normal while Southwest Russia is dry. CIC is cooler to the northeast of the Black Sea versus the IRI outlook although similarly warmer than normal for Western Russia.

## China/India: IRI drier than CIC for Eastern China/Western India

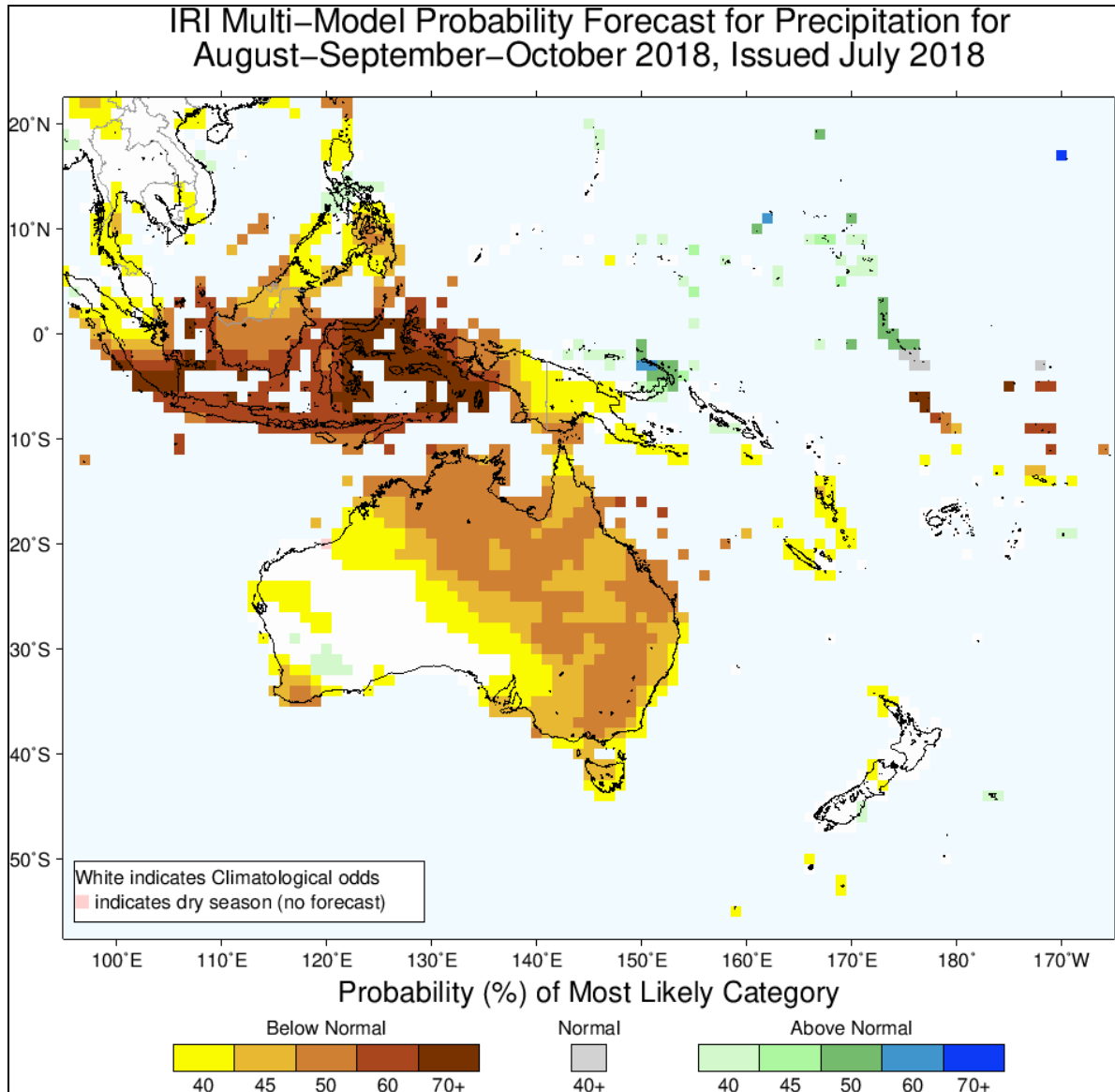
The IRI precipitation outlook indicates strong dry probabilities for Eastern China and Western India (*Fig. 5*). The CIC forecast is not as aggressive with dryness for China and in India the CIC outlook is drier in southeast portions and less dry western sections as compared to IRI. Note the strong dryness across Indonesia by IRI. CIC is similar except wetter in Malaysia.



*Fig. 5: The IRI precipitation probability forecast for AUG/SEP/OCT 2018 across Asia is indicated. The outlook is drier than CIC for Eastern China and Western India.*

### Australia: IRI and CIC similarly dry.

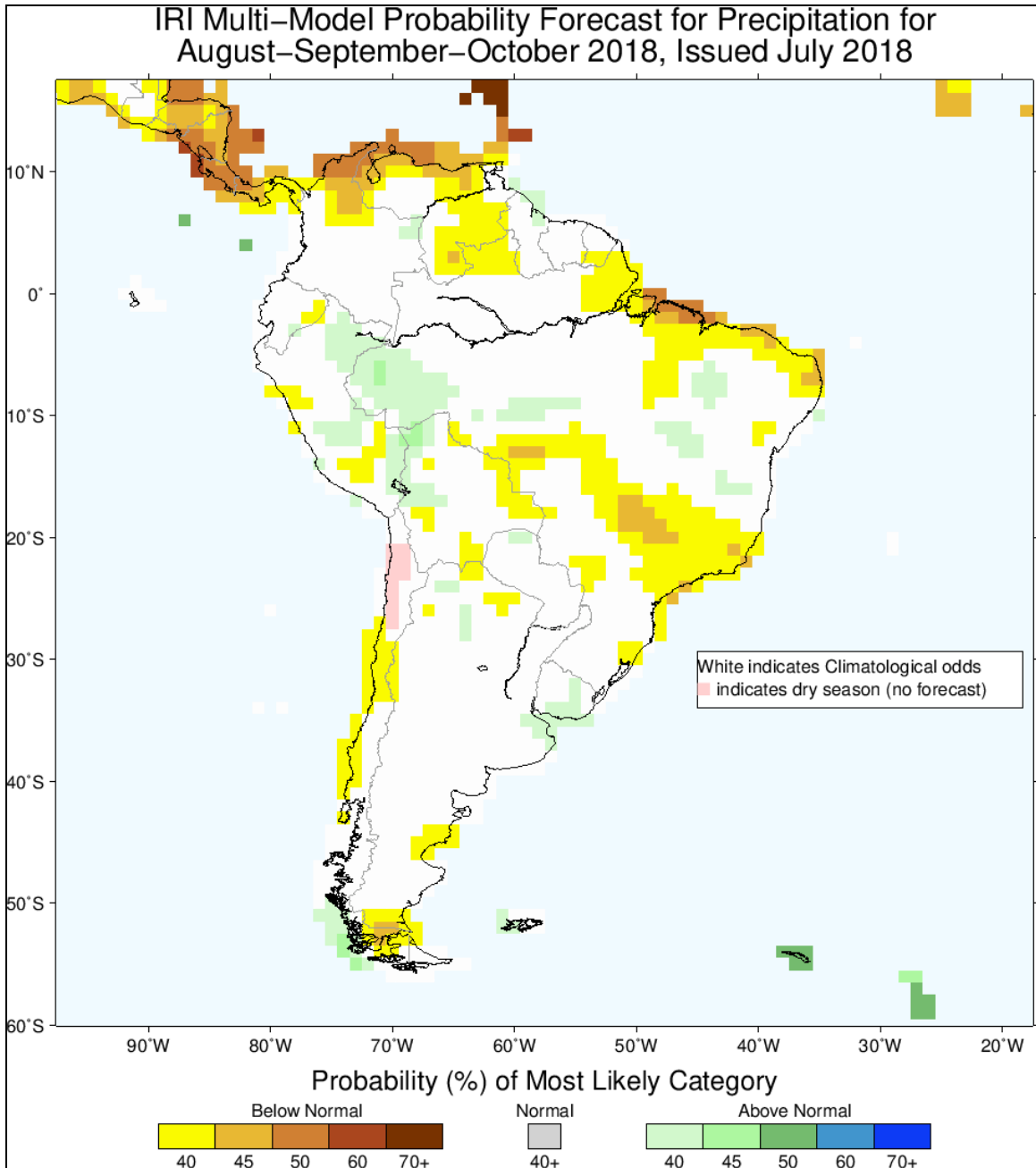
The IRI and CIC precipitation outlooks for late winter and spring are drier than normal (*Fig. 6*) across most of the continent as the drought condition is likely to worsen.



*Fig. 6: The IRI precipitation probability forecast for AUG/SEP/OCT 2018 across Australia is indicated. The outlook is similarly dry to CIC.*

## South America: CIC is wetter than IRI in Argentina.

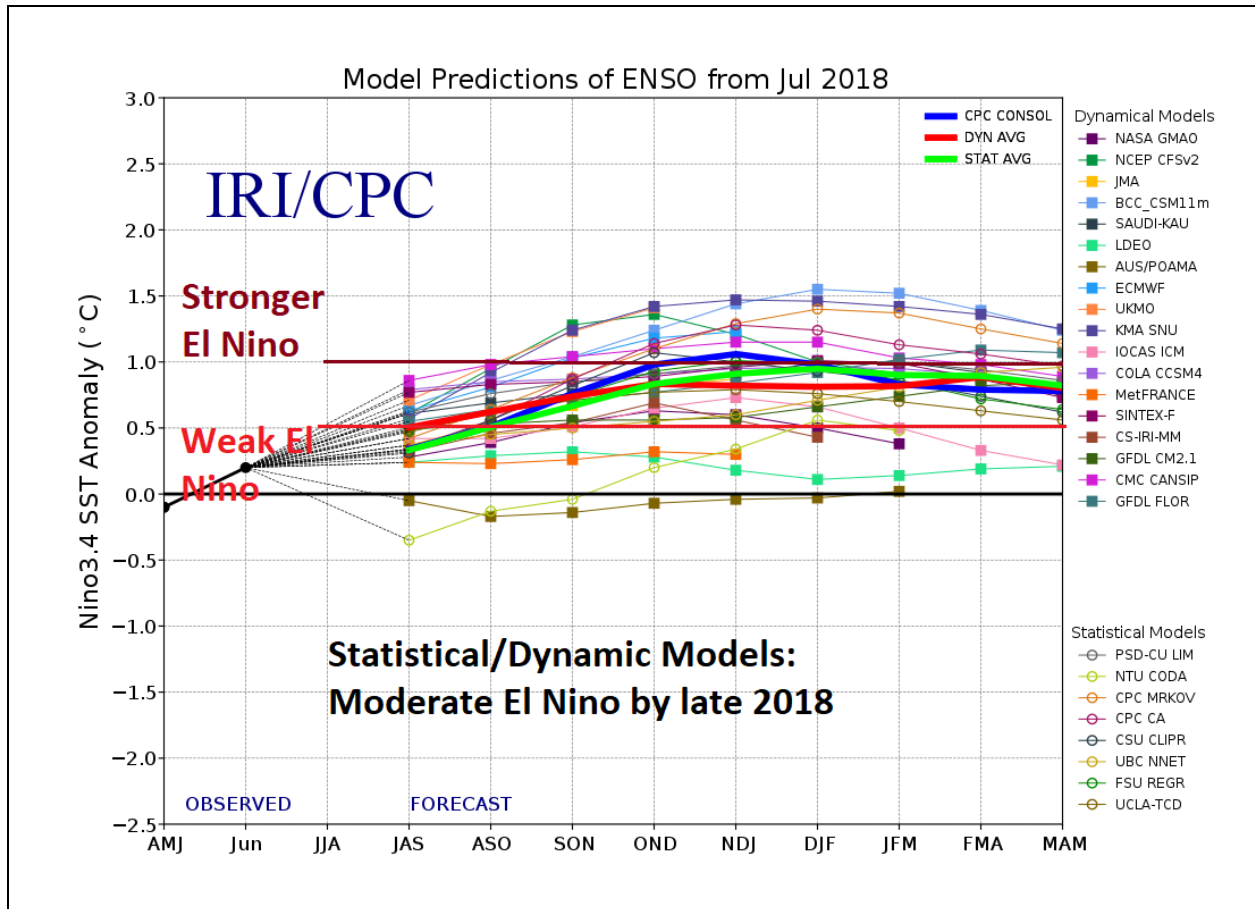
The IRI precipitation probability forecast for the next 90 days across South America is mostly dry in Brazil (Fig. 7) and CIC agrees. However, CIC is wetter than IRI across Argentina.



*Fig. 7: The IRI precipitation probability forecast for AUG/SEP/OCT 2018 across South America is indicated. The CIC outlook is wetter in Argentina.*

## El Nino Southern Oscillation

The IRI collects Nino34 SSTA forecasts from all statistical and dynamic models (*Fig. 8*). The consensus of both sets of models is moderate strength El Nino for later this year.



*Fig. 8: The IRI collection of ENSO phase forecast models indicates a moderate strength El Nino is ahead.*