

Regional enhancements

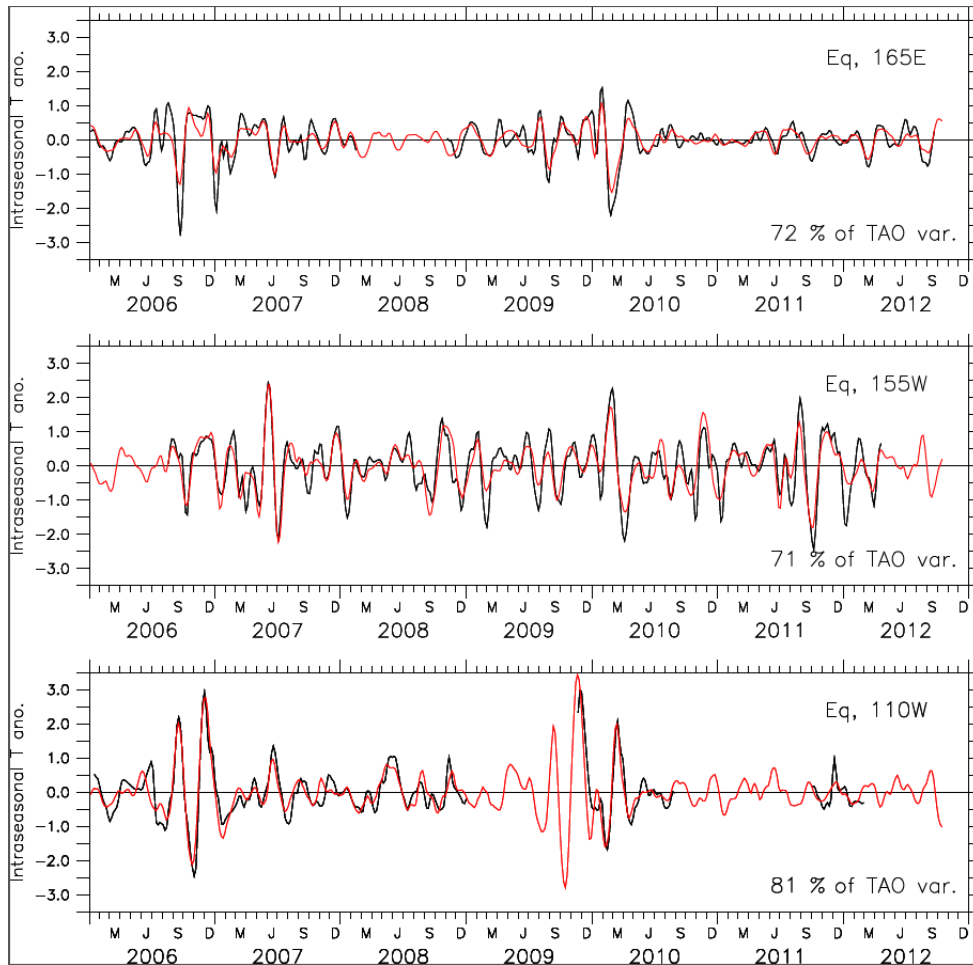
2. Equatorial Pacific

Motivation: ENSO
observation/prediction

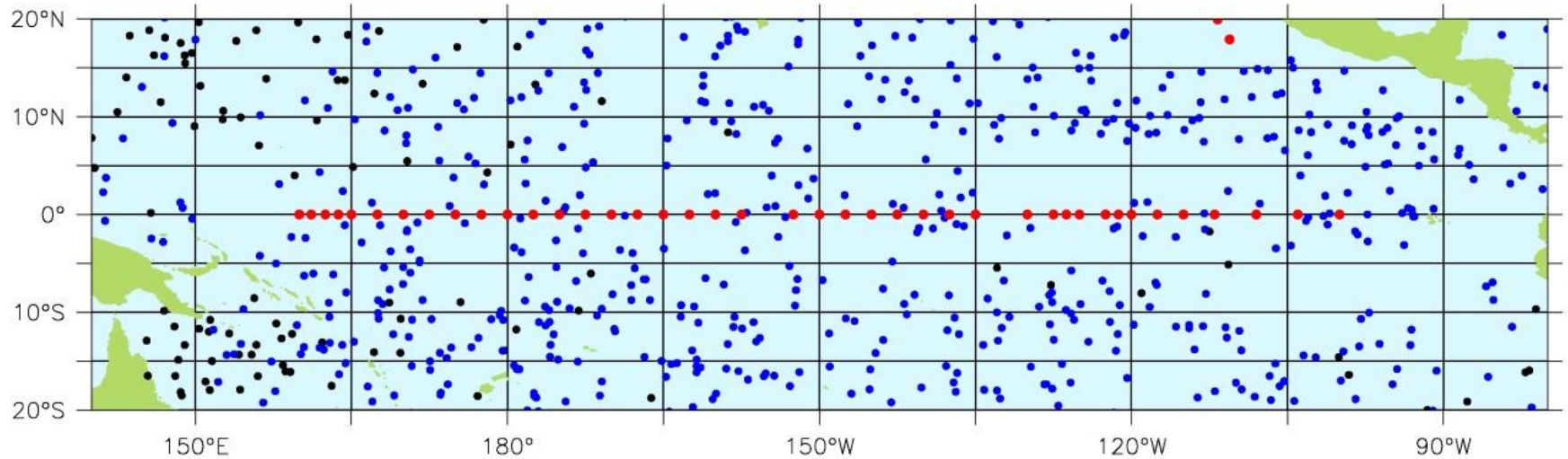
The present Argo array captures about 90% of the variance in TAO/TRITON 100m equatorial T on timescales > 10 days.

However, for intraseasonal variability (30 – 100 days), the present Argo array captures only 70 -80% of the variance.

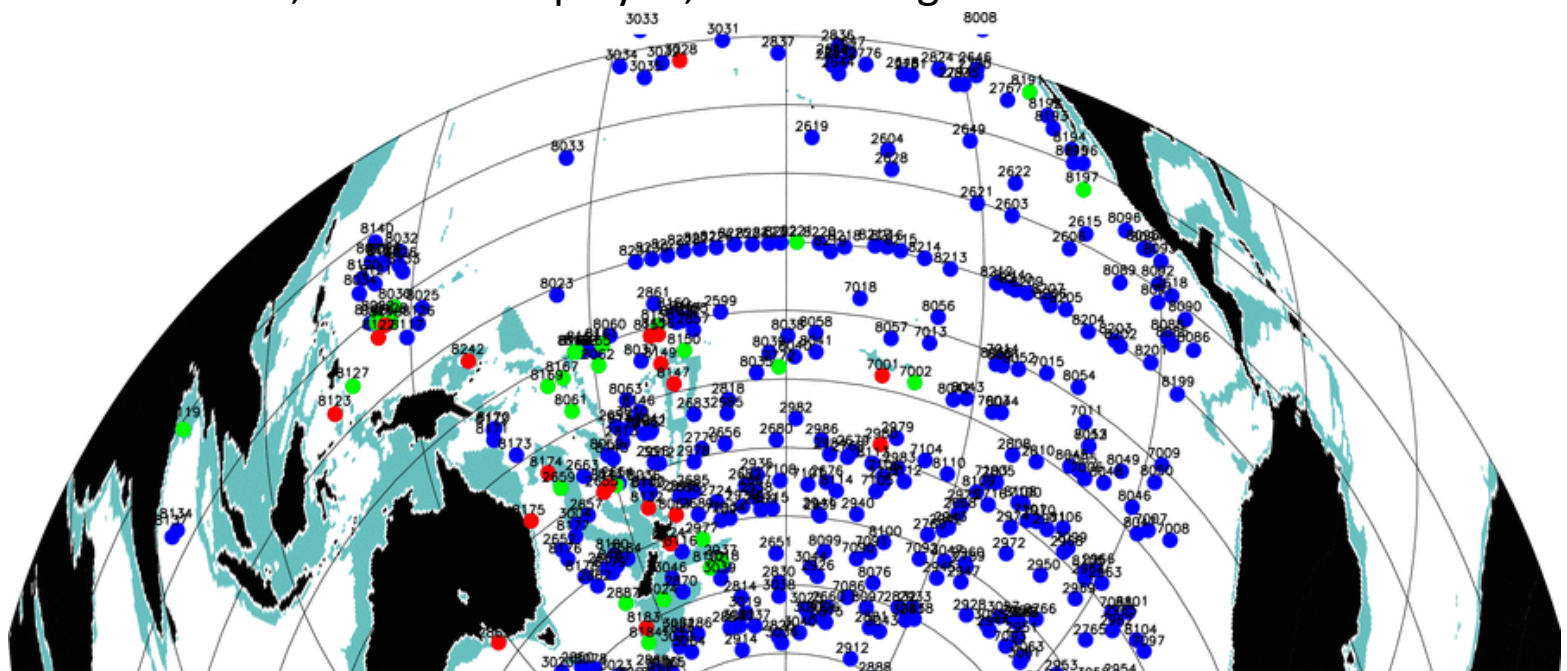
Given longstanding vandalism problems with moorings in the eastern Pacific, and the recent degradation in TAO/TRITON, we investigate the efficiency of an enhanced Argo in the equatorial waveguide.



Deployment plan for 41 equatorial Pacific floats, SV Investigator



As of 19 March 2014, 34 floats deployed, 7 remaining



Pacific Expeditions' SV Investigator deploying 48 Argo floats, Jan-Mar 2014, on a voyage of > 17,000 km from San Diego to 0°N 100°W to 0°N 155°E to Australia.

20 floats in the forward cabin



28 floats in the main saloon



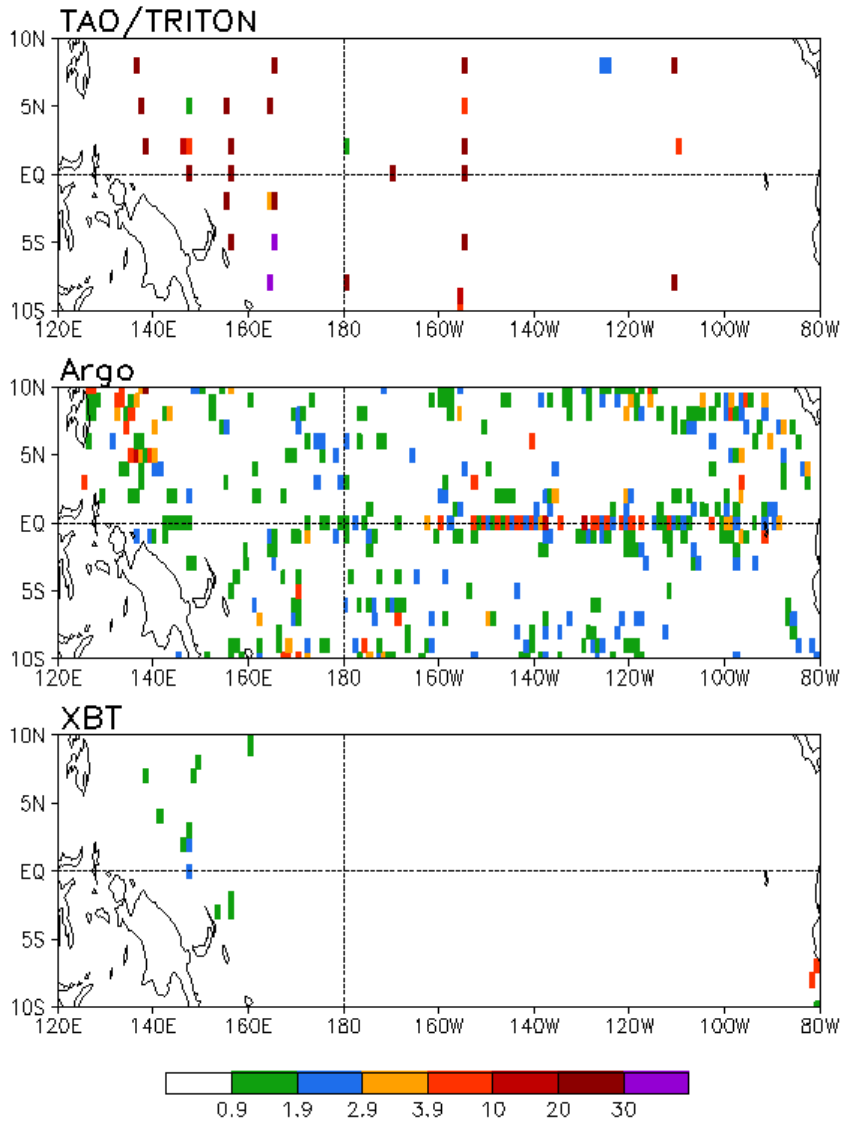
Loading complete – San Diego harbor



A deployment on the equator

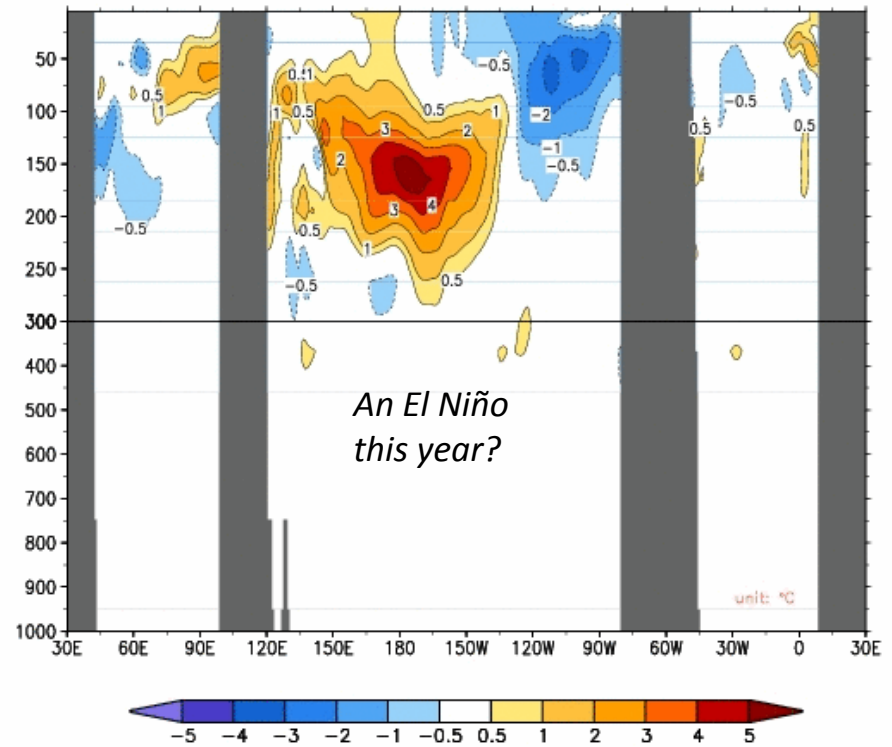
ENSO forecast centers (e.g. NCEP) have already noted the impact of additional Argo floats

of Daily Temp. Profiles in FEB 2014



<http://www.cpc.noaa.gov/products/GODAS/>

GODAS Temperature Anomaly, 02/02/2014–02/27/2014



NOAA CPC Global Ocean Data Assimilation System:
Present equatorial temperature anomaly.
Argo is the dominant global data source.