

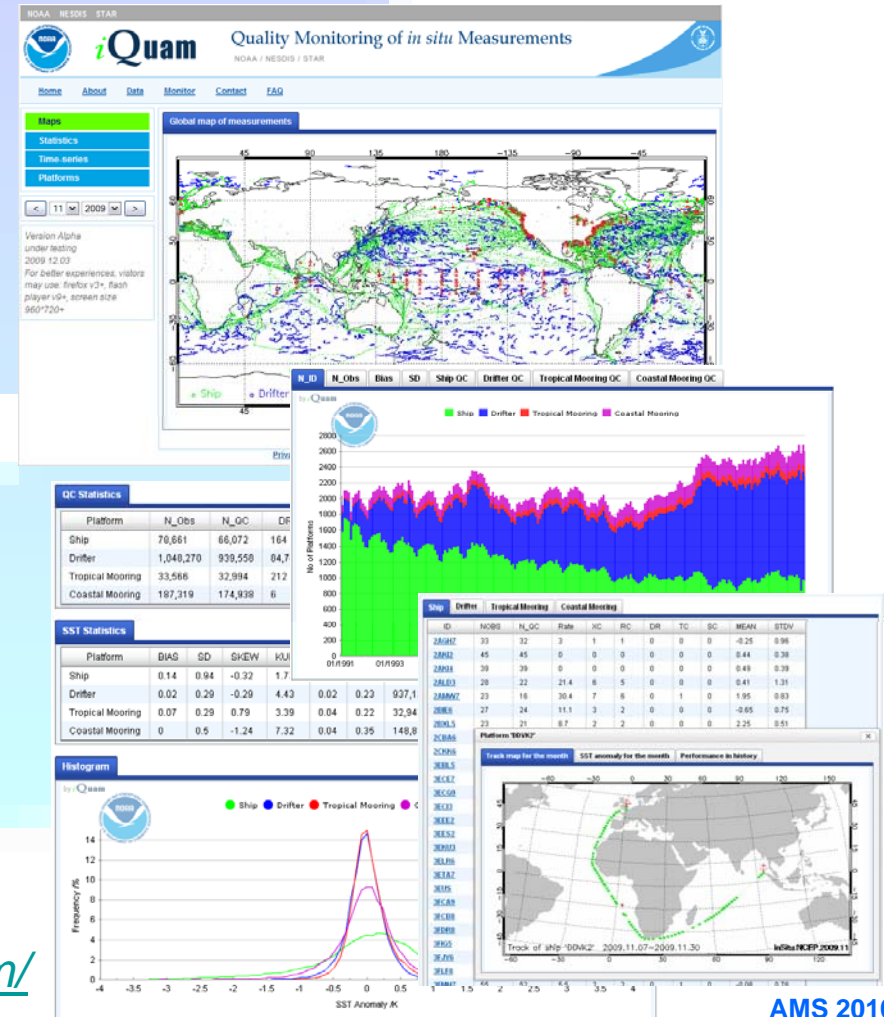


6th Annual Symposium on Future National Operational Environmental Satellite Systems-NPOESS and GOES-R

Oral - Evaluation and Quality Control of *in situ* SSTs for Use in the Cal/Val of Satellite Retrievals at NESDIS

Feng Xu, Alexander Ignatov

- Inventory of available *in situ* data sets
 - NCEP GTS (NRT, 1991 - pr, No QC)
 - ICOADS (1980s-2009, QCed)
 - FNMOC (NRT, 1998 - pr, QCed)
- Development of advanced QC for satellite Cal/Val applications
 - Preprocessing and cleaning
 - Duplicate Removal, Travel-Speed Check, SST-Gradient Check
 - Bayesian methods for Reference Check and Cross-platform Check
- iQuam – online monitoring *in situ* SSTs
 - Provide QCed NCEP *in situ* data on FTP
 - Global maps, statistics, time-series of Nobs/Bias/SD wrt Reynolds
 - Individual platforms: Statistics, track map, SST anomalies, performance history
 - Feedback to QC system: platform blacklist, *a priori* information...



<http://www.star.nesdis.noaa.gov/sod/sst/iquam/>