GHRSST Satellite SST Validation Technical Advisory Group Breakout Report

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ST-VAL Breakout Session, 14th GHRSST Science Team Meeting, Woods Hole, 17-21 June 2013

In Situ SST Radiometers

- Proposal for common format and repository for Shipborne SST radiometer data
  - Standardise on CCI netCDF format? - Tim Nightingale to email
  - NEODC (RAL) willing to host SST radiometric data
- Where do we need in situ SSTskin?
  - CDR-TAG: Along repeat transects within 100 km of each other and ideally at least once monthly
- High latitude in situ SSTskin
  - DMI obtaining Arctic ISAR SSTskin (but how frequent/sustained)
  - RV Investigator to sporadically obtain Southern Ocean ISAR SSTskin from mid-2014
  - Do we need more ships at high lats with more repeating transects?

GHRSST Validation Protocol Document

- Proposal from GHRSST PO for a brief VPD that would contain:
  - Review of existing datasets
  - QC procedures
  - Future data requirements
  - Description of how to produce SSES's and quality levels via links to L2/L3 producers' documents
- Volunteers to write sections to email Gary Corlett

Sensor Specific Error Statistics

- Are they being calculated correctly?
  - Every L2/L3 producer does something different
  - Producers need to provide:
    - SSES method description
    - SSES validation
- Are they appropriate for the application?
  - ST-VAL to work with IC-TAG to determine what L4 producers need from SSES's
  - Do users need additional SSES fields such as sses_count and sst_count?
    - sses_count = Number of *in situ* matches that contributed to the statistics
    - sst_count = Number of satellite SST measurements that contributed to the "best typical" L3 SST grid value

NOAA NESDIS STAR

iQUAM *in situ* SST quality monitor v2.0

NOAA / NESDIS / STAR

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- Maps
- Statistics
- Time Series
- Platforms

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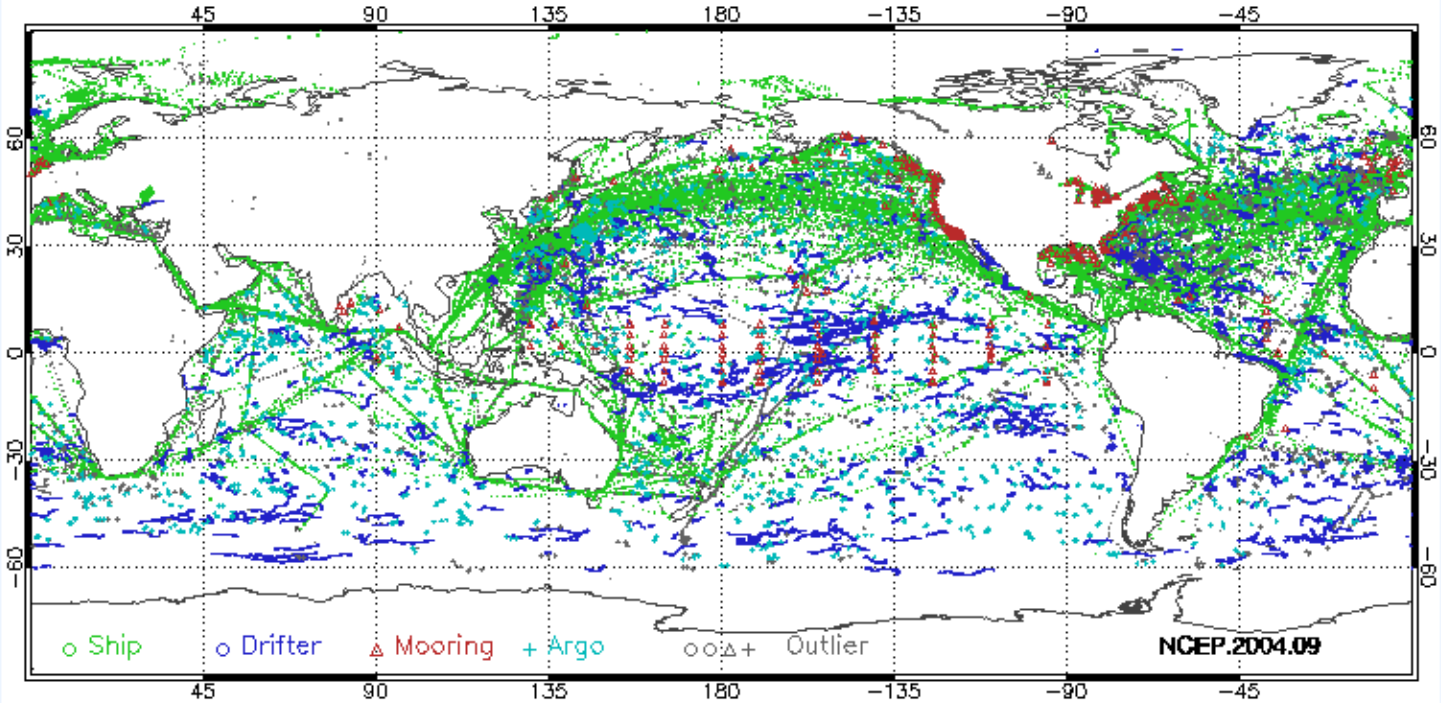
Different platform types are shown in different colors, with outliers (erroneous observations) shown in gray. Each symbol stands for one observation.

Tropical moorings include TAO/TRITON, PIRATA, RAMA etc. Coastal moorings are all other moorings.

Argo floats data are from USGODAE GDAC ftp site. The shallowest good measurement in 3-8dbar depth range is extracted from each profile.

Global map of measurements



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