International Space Science Institute
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International Teams in Space Science

Generation of Climate Data Records of Sea-Surface Temperature from current and future satellite radiometers

Team Leader:

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Second Workshop 1-5 October 2012

Draft Agenda

27 September 2012, 09:15

Monday, 1 October, 2012

1 Welcome (09:00)

1.1 Local Arrangements
1.2 Review Objectives of the Workshop
1.3 Discuss & modify agenda

2 Satellite radiometers

2.1 New developments:
  2.1.1 Suomi-NPP VIIRS Instrument characteristics and SST Accuracies (Peter Minnett)
  2.1.2 AMSR-2 on GCOM-W1 (Peter Minnett)
  2.1.3 Chinese FY satellites and sensors (Lei Guan)
2.2 Consequences of loss of Envisat and AATSR; progress towards SLSTR (Gary Corlett)
2.3 New results of note (All)

3 Shipboard radiometers

3.1 Update on past and future deployment plans.
3.2 Radiometer calibration workshop – developments?

4 In situ measurements

4.1 Updates on results using drifting or moored buoys.
4.2 New developments?

5 Discussion of SST CDRs

5.1 Uncertainty budgets and SI traceability (Theo Theocharous)
5.2 Improvements on the flow diagram developed at the First Workshop?
5.3 How can the satellite-derived SST CDR be extended back before the deployments of ship-board radiometers? (Gary Wick)
5.4 How can satellite SST CDRs be merged with in situ SST time series?
5.5 Ocean reference sites – is this concept one to follow for radiometric skin SST measurements?
5.6 Alignment with QA4EO; involvement of CEOS

6 Data Archiving and distribution

6.1 Refine the user requirements for a data archive

6.2 Discuss and agree upon the initial radiometer data format, including metadata for archival data (Tim Nightingale)

Tuesday, 2 October, 2012

7 Definition of Breakout Groups – Ship-board radiometry, in situ measurements and (other suggestions?) ….

Each group to consider, amongst other things:

7.1 Minimum and optimal accuracy requirements and how these can be achieved and demonstrated

7.2 Revision of contents of "Best Practices Handbooks" for measurements to be used to validate satellite-derived SSTs

7.3 Discuss research areas that need urgent attention.

Wednesday, 3 October, 2012

8 **Updates in Sentinel-3 and SST_cci** (Craig Donlon)

9 Reports of Breakout Groups

10 Breakout sessions

Thursday, 4 October, 2012

11 Reports of Breakout Groups

12 Breakout sessions

13 Reports of Breakout Groups

Friday, 5 October, 2012

14 Future plans

14.1 Identify problems to be addressed, gaps to be filled
14.2 Requirements of future calibration workshops
14.3 Opportunities for coordinated ship radiometer deployments
14.4 Outline of peer-reviewed publications arising from this ISSI Study Project
14.5 Dates for next ISSI Workshop

Adjourn 12:30

Workshop Participants

Dr Peter Minnett (Team Leader)	University of Miami, USA
Dr Gary Corlett (Co-leader)	University of Leicester, UK
Dr Sandra Castro	University of Colorado, USA
Dr Craig Donlon (Wed & Thurs)	ESA-ESTEC, NL
Dr Lei Guan	Ocean University of China, CN
Dr Andrew Jessup	University of Washington, USA
Dr Tim Nightingale	Rutherford Appleton Laboratory, UK
Mrs Anne O'Carroll (Mon & Tues)	EUMETSAT, DE
Dr Theo Theocharous	National Physical Laboratory, UK
Dr Gary Wick	NOAA Earth System Research Laboratory, USA
Mr Werenfrid Wimmer (from Mon pm)	University of Southampton, UK

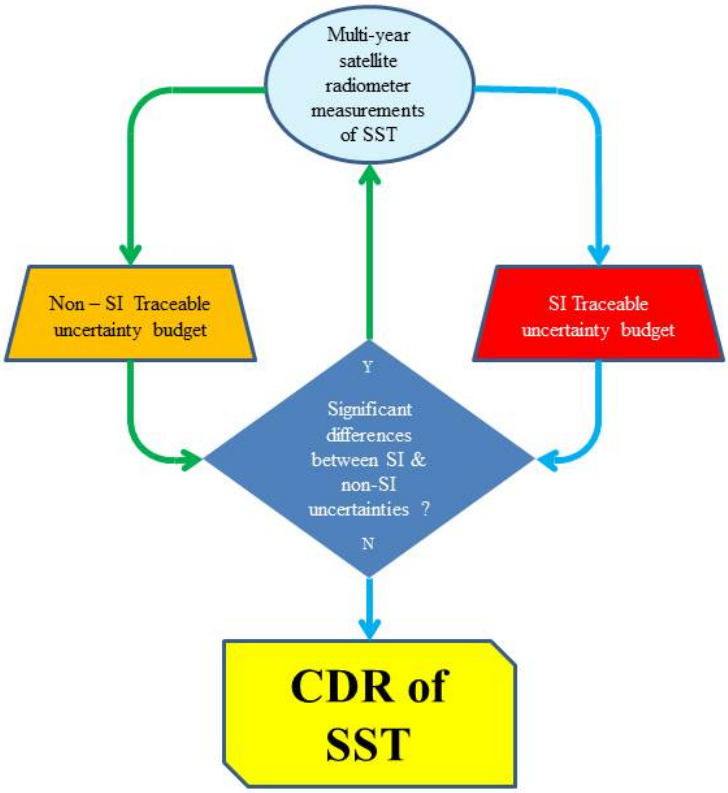

Figure 1 Simplified depiction of the path to generating CDRs of SST using shipboard radiometers.

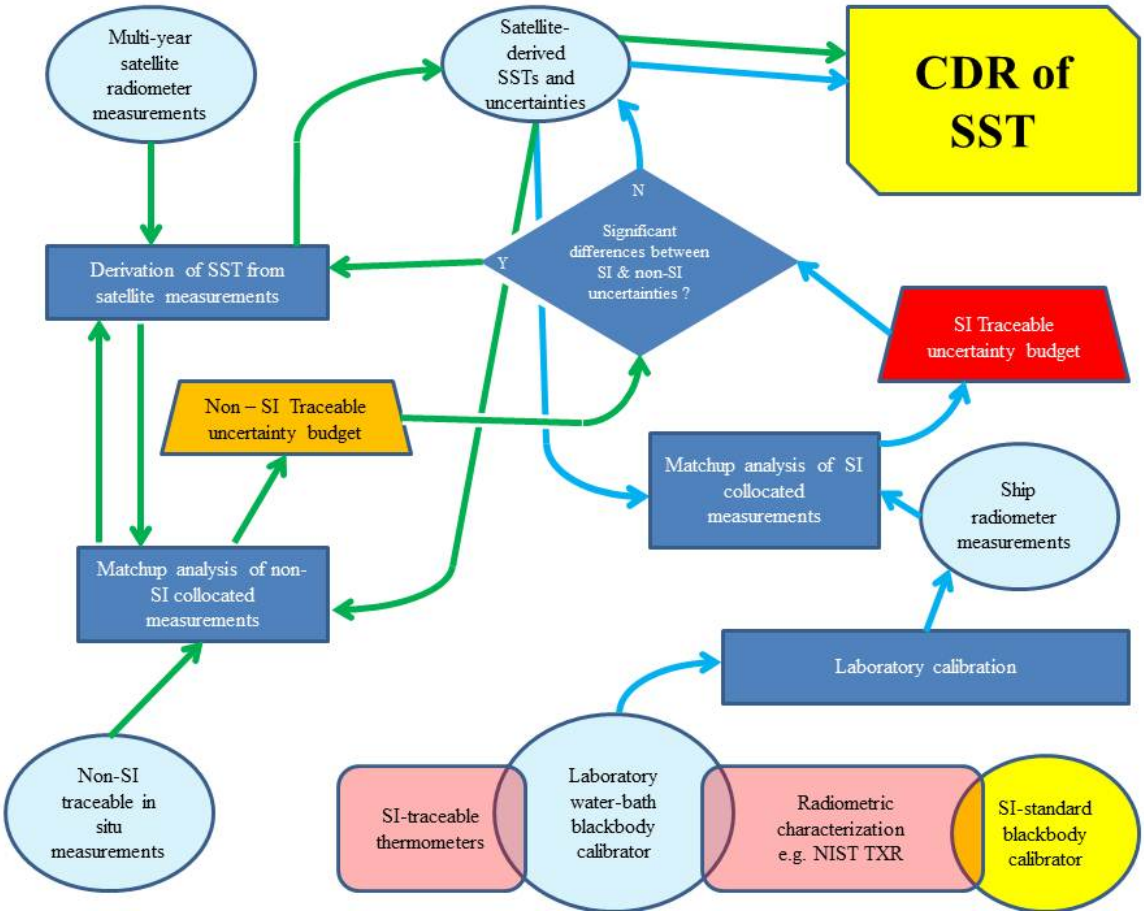

Figure 2. Detailed diagram of the pathway to generating CDRs of SSTs using shipboard radiometers.