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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First Workshop 26-30 March 2012

Revised Draft Agenda

20 March 2012

Monday, 26 March, 2012

1 Welcome

1.1 Local Arrangements - Maurizio Falanga
1.2 Introduction of Participants – All
1.3 Objectives of the Workshop – Peter Minnett
1.4 Discuss & modify agenda - All

2 Background – satellite radiometers

2.1 Requirements of Sea-Surface Temperature Climate Data Records – Peter Minnett, Theo Theocharous
2.2 Approaches to generating SST CDRs – Peter Minnett
2.3 Characteristics of past, current and future radiometers that can contribute to the SST CDR – Gary Corlett, Peter Minnett
2.4 Summary of ESRIN Sentinel-3 Cal/Val Team Meeting, 20-22 March, 2012 – Peter Minnett, Gary Corlett

3 Background – shipboard radiometers

3.1 Characteristics of shipboard radiometers – Peter Minnett, Werenfrid Wimmer, Tim Nightingale
3.2 Calibration requirements – Peter Minnett, Theo Theocharous
3.3 Summaries of RSMAS and CEOS workshops – Peter Minnett, Theo Theocharous
3.4 Calibration histories of radiometers – Peter Minnett, Werenfrid Wimmer, Tim Nightingale
3.5 Deployment – past and future plans – Peter Minnett, Werenfrid Wimmer, Tim Nightingale

4 Background – in situ measurements

4.1 Characteristics of in situ temperature measurements - Anne O'Carroll, Gary Corlett
4.2 Deployments of in situ temperature measurements, past and future, Gary Corlett

Tuesday, 27 March, 2012

5 Discussion of SST CDRs

5.1 Can we justify calling satellite SST fields a CDR? - Peter Minnett, Gary Corlett

5.2 Does the identification of satellite uncertainties using ship-board radiometers constitute a CDR? - Peter Minnett

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? - Anne O'Carroll

5.5 Alignment with QA4EO. - Gary Corlett, Theo Theocharous

6 Definition of Breakout Groups – Ship-board radiometry, in situ measurements and ….

Each group to consider:

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

6.2 Contents of "Best Practices Handbooks" for measurements to be used to validate satellite-derived SSTs

6.3 Identify Research areas that need urgent attention.

Wednesday, 28 March, 2012

7 Reports of Breakout Groups

8 Data Archiving and distribution

8.1 Define the user requirements for a data archive - Peter Minnett et al

8.2 Define minimum requirements of data sets, including metadata for archival data - Tim Nightingale et al

Thursday, 29 March, 2012

9 Breakouts - All

9.1 Write sections for Best Practices Report
9.2 Write sections for Workshop Report
9.3 Develop content for Web Pages

Friday, 30 March, 2012

10 Future plans

10.1 Identify problems to be addressed, gaps to be filled - Peter Minnett, Gary Corlett
10.2 Requirements of future calibration workshops - Peter Minnett, Gary Corlett
10.3 Opportunities for coordinated ship radiometer deployments – Peter Minnett et al.
10.4 Outline of peer-reviewed publications arising from this ISSI Study Project – All
10.5 “Homework” assignments- All
10.6 Dates for next ISSI Workshop -All

Study Group 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	ESA-ESTEC, NL
Dr Bob Evans	University of Miami, USA
Dr Nigel Fox	National Physical Laboratory, UK
Dr Chelle Gentemann	Remote Sensing Systems, USA
Dr Lei Guan	Ocean University of China, CN
Dr Simon Hook	NASA Jet Propulsion Laboratory, USA
Dr Andrew Jessup	University of Washington, USA
Dr Tim Nightingale	Rutherford Appleton Laboratory, UK
Mrs Anne O'Carroll	EUMETSAT, DE
Dr Gary Wick	NOAA Earth System Research Laboratory, USA
Mr Werenfrid Wimmer	University of Southampton, UK
Dr Chris Wilson	NASA Jet Propulsion Laboratory, USA