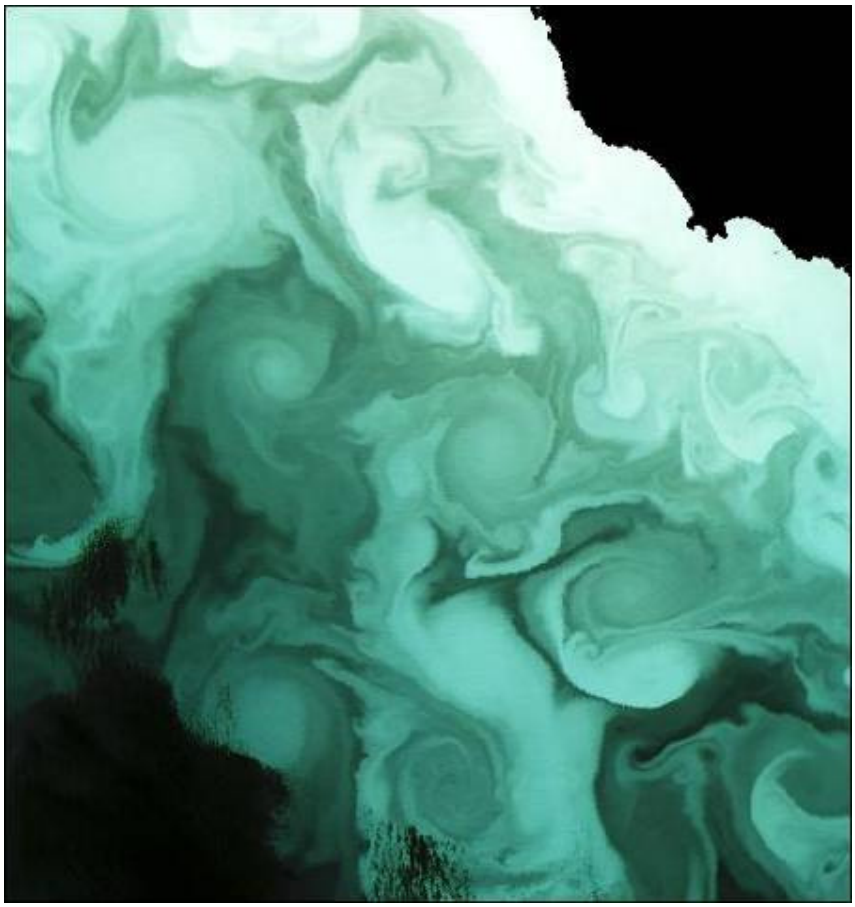
ENVISAT - AATSR

CYCLIC REPORT #107

	START	END
DATE	22ND SEPTEMBER 2011	22ND OCTOBER 2011
TIME	22:03:48	22:04:04
ORBIT #	50015	50446



Sea surface temperatures south of Australia from data acquired on 17 October 2011 during Envisat orbit #50368. The image was prepared from AATSR thermal channels (Red: 12 µm, Green: 11 µm, Blue: 3.7 µm). Image courtesy of J. Abolins.

prepared by/*préparé par*	AATSR IDEAS and QWG team
reference/*réference*	
issue/*édition*	1
revision/*révision*	0
date of issue/*date d'édition*	03 November 2011
status/*état*	
Document type/*type de document*	Technical Note
Distribution/*distribution*	

A P P R O V A L

Title *titre*	AATSR Cyclic Report – Cycle 107	issue 1 *issue*	revision 0 *revision*
author *auteur*	Pauline Cocevar	date 03 November *date* 2011	
approved by *approuvé par*		date *date*	

C H A N G E L O G

reason for change /*raison du changement*	issue/*issue*	revision/*revision*	date/*date*
		0	

C H A N G E R E C O R D

ISSUE: 1 REVISION: 0

reason for change/*raison du changement*	page(s)/*page(s)*	paragraph(s)/ *paragraph(s)*

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AATSR CYCLIC REPORT # 107

1 INTRODUCTION

The AATSR Cyclic Report is distributed by the AATSR IDEAS team to keep the AATSR community informed of any modification regarding instrument performances, the data production chain and the results of calibration and validation campaigns at the end of each Envisat 2010+ cycle, which consists of 431 complete orbits over the course of 30 days.

This document is available online at: http://earth.esa.int/pcs/envisat/aatsr/reports/cyclic/

1.1 Acronyms and Abbreviations

AATSR	Advanced Along Track Scanning Radiometer
APC	Antenna Pointing Controller
CR	Cyclic Report
DDS	Data Dissemination System
DMOP	Detailed Mission Operation Plan
DMS	Data Management System
EN-UNA-YYYY/#	Envisat Unavailability (plus year and number)
ESOC	European Space Operation Centre
GOSTA	Global Ocean Surface Temperature Atlas
HSM	High Speed Multiplexer
IDEAS	Instrument Data quality Evaluation and Analysis Service
IECF	Instrument Engineering and Calibration Facilities
IPF	Instrument Processing Facilities
LUT	Look Up Table
MPS	Mission Planning Schedule
NRT	Near Real Time
OCM	Orbit Control Manoeuvre
OBDH	On-board Data Handling
PDS	Payload Data Segment
PMC	Payload Management Computer
RAL	Rutherford Appleton Laboratory
SPR	Software Problem Reporting
SSR	Solid State Recorder
SW	Software
VISCAL	Visible Calibration

The AATSR list of acronyms and abbreviations is available at the following site:
http://envisat.esa.int/dataproducts/aatsr/CNTR5.htm#eph.aatsr.glossary

2 SUMMARY

Cyclic Report: 107

Cycle Start: 22nd September 2011, 22:03:48 Orbit #: 50015

Cycle End: 22nd October 2011, 22:04:04 Orbit #: 50446

The main activities during the cycle have been as follows:

- **ESRIN downtimes and delays**
  - 22-23 September 2011: NRT dissemination delay
  - 04, 10, 18 October 2011: Network maintenance
  - 19-21 October 2011: Firewall problems
- **Kiruna downtimes and delays**
  NRT Processing problems were experienced at Kiruna on the following dates:
  - 21-23 September 2011
- **Unavailability**
  There was one unplanned Artemis unavailability affecting Envisat NRT data during this cycle:
  - 29 September 2011: 16:22:14 to 17:38:19
- **Planned AATSR outgassing**
  A planned AATSR outgassing took place between the following dates and times:
  - 07 October 2011 08:19:32 to 10 October 2011 14:49:30

  This affected orbits 50222 to 50269. No infrared data is available for these orbits, and the reflectance channels (1600, 860, 670 and 560 nm) are affected by poor calibration.
- **Envisat Orbital Control Manoeuvre**
  An Envisat in-plane OCM/wheel de-suspension took place during which AATSR was moved from Measurement into Heater mode. This took place between the following times:
  - 14 October 2011: 01:15:00 to 06:00:00
- **AATSR Long Term Drift Correction Developments**
  An email was sent to AATSR users concerning developments in the long-term drift correction table for the AATSR solar reflectance channels; see below for the contents. In order to be placed on this list of AATSR users, please notify Dr D. Smith (Dave.Smith@stfc.ac.uk).
  - Introduction of uncertainty estimates in trend values – these are now included as an additional column for each band. The uncertainty values are primarily based on a statistical analysis of the drift measurements with the

underlying assumption that the reference sites used are invariant over long timescales.

- Introduction of ENVISAT style naming, MPH and SPH. This is to allow the long term drift corrections to be included in the next reprocessing of the AATSR L1b data. The intention for the updated IPF will be the inclusion of a new DSD that directly references the drift correction table filename. A simple file without the additional MPH and SPH will still be available to users.
- Inclusion of Greenland and Dome-C measurements in drift analysis.
- Revised adjustment for the seasonal vignetting of the VISCAL diffuser. Prior to summer 2011 we have used the as measured photodiode signal to provide an additional adjustment to the measured drift to account for a small (<0.5%) vignetting of the solar diffuser at certain times of the year. In order to make the processing of the drift correction table more efficient and reliable, a seasonally averaged adjustment is used. This modification also removes some shorter term effects where there were gaps in the monitor trend, and where the monitor signal is not consistent with the actual signal channel variations, in particular during May 2011 (see AATSR Cyclic Report 105). This modification does have a small impact in the reported drift values, particularly for the early part of the mission where values are shifted slightly by ~1%.
- There is also an updated IDL function AATSR_READ_DRIFT_TABLE.PRO that can read all versions of the table. The calling sequence is the same so there should be no need to modify any code that calls this function. However, the returned structure now includes the uncertainty estimates.

The updated drift correction tables and tools can be found on the AATSR engineering data system at: http://www.aatsrops.rl.ac.uk/EDSX/OtherInfo/.

Note that the drift correction table as provided is the current best estimate of the long-term drift based on a statistical analysis of TOA reflectance measurements over stable desert and ice targets and is therefore based on assumptions about the long term stability of the sites, BRDF etc. Also note that the drift correction does not correct for absolute radiometric biases which are treated separately. Users therefore need to take these and other factors into account when using the tables.

3 SOFTWARE & AUX FILE VERSION CONFIGURATION

3.1 Software Version

AATSR IPF for Level 1 and Level 2: Version 6.03

AATSR L2P Processor: Version 1.5.

3.2 Auxiliary Files

AATSR processing uses the following auxiliary files:

- Browse Product Lookup Data (ATS_BRW_AX)
- L1b Characterisation Data (ATS_CH1_AX)
- Cloud Lookup Table Data (ATS_CL1_AX)
- General Calibration Data (ATS_GC1_AX)
- AATSR Instrument Data (ATS_INS_AX)
- Visible Calibration Coefficients Data (ATS_VC1_AX)
- L1b Processing Configuration Data (ATS_PC1_AX)
- L2 Processing Configuration Data (ATS_PC2_AX)
- SST Retrieval Coefficients Data (ATS_SST_AX)
- LST Land Surface Temperature Coefficients Data (ATS_LST_AX)

Because the PC1 file contains the orbit period, two versions now need to be maintained after the mission extension orbit manoeuvres.

The latest filename for each auxiliary file in use in the PDS is as follows:

Product name
ATS_BRW_AXVIEC20020123_072338_20020101_000000_20200101_000000
ATS_CH1_AXVIEC20070720_093530_20020301_000000_20200101_000000
ATS_CL1_AXVIEC20101015_104659_20020301_000000_20200101_000000
ATS_GC1_AXVIEC20070720_093834_20020301_000000_20200101_000000
ATS_INS_AXVIEC20070720_094014_20020301_000000_20200101_000000
See below for VC1 files
ATS_LST_AXVIEC20101018_094830_20020301_000001_20200101_000000
ATS_PC1_AXVIEC20101015_101827_20020301_000000_20101021_235959
ATS_PC1_AXVIEC20101015_100604_20101022_000000_20200101_000000
ATS_PC2_AXVIEC20020123_074151_20020101_000000_20200101_000000
ATS_SST_AXVIEC20051205_102103_20020101_000000_20200101_000000

Table 3-1 Latest auxiliary files currently in use by the PDS

3.2.1 STATUS OF DAILY VISIBLE CALIBRATION FILES

3.2.1.1 VC1 File Availability

The following daily reflectance channel calibration files were not available during this cycle::

Date	Validity range		Comments
	From	To	
24/09/2011	22/09/2011	29/09/2011	Could not be generated due to lack of data
09/10/2011	07/10/2011	14/10/2011	No data available due to AATSR outgassing
10/10/2011	08/10/2011	15/10/2011	No data available due to AATSR outgassing
11/10/2011	09/10/2011	16/10/2011	No data available due to AATSR outgassing

Table 3-2 Unavailable VC1 files

This reporting period, issues with the IECF resulted in several orbital files not being disseminated, usually of the order of one file every few days. This is an ongoing issue which is under investigation.

3.2.2 STATUS OF OTHER AUXILIARY FILES

No auxiliary files changed during this cycle.

4 PDS STATUS

4.1 Instrument Unavailability

AATSR data were unavailable due to instrument unavailability at the following times during the cycle:

UTC Start	UTC Stop	Reason	Reference	Planned
29-Sep-2011 16:22:14	29-Sep-2011 17:38:19	Artemis anomaly	ART-ENV-UNA-2011-027	No
07-Oct-2011 08:19:32	10-Oct-2011 14:49:30	AATSR outgassing; IR channels unavailable	EN-UNA-2011/0208	Yes
14-Oct-2011 01:15:00	14-Oct-2011 06:00:00	AATSR in Heater mode due to in-plane OCM	EN-UNA-2011/0211	Yes

Table 4-1 Instrument unavailability during cycle 107. The period covered by EN-UNA-2011/0208 is not included in the table below as only the thermal channels were unavailable.

4.2 L0 Data Acquisition and L1B Processing Status

Week		Orbit		Availability (s)			Availability (%)		
#	Dates	Start	Stop	Inst Unav	L0 gaps	L1 gaps	Instrument	L0	L1
1	22-Sep-2011 22:03:48	50015	50101	0	0	0	100.00%	100.00%	100.00%
2	28-Sep-2011 21:43:48	50101	50187	4565	5666	0	99.12%	98.03%	98.03%
3	04-Oct-2011 21:23:49	50187	50274	0	0	5591	100.00%	100.00%	98.92%
4	10-Oct-2011 22:44:03	50274	50360	17100	14926	15825	96.70%	93.82%	90.77%
5	16-Oct-2011 22:24:03	50360	50446	0	7767	0	100.00%	98.50%	98.50%

Table 4-2 Instrument and data unavailability weekly summary for Cycle 107.

The instrument was available for 99.16% of the time during the cycle.
The L0 data were available for 98.07% of the time during the cycle.
The L1b data were available for 97.24% of the time during the cycle.

The following L0 data were missing from this cycle:

UTC Start	UTC Stop	Duration (s)	Orbit Start	Orbit End
29-Sep-2011 13:12:15	29-Sep-2011 14:46:41	5666	50110	50110
11-Oct-2011 07:34:31	11-Oct-2011 09:14:07	5976	50279	50279
11-Oct-2011 17:25:35	11-Oct-2011 19:03:18	5863	50285	50285
13-Oct-2011 13:41:28	13-Oct-2011 14:32:55	3087	50311	50312
18-Oct-2011 11:14:02	18-Oct-2011 11:34:11	1209	50382	50382
21-Oct-2011 08:07:05	21-Oct-2011 08:18:20	675	50423	50423
21-Oct-2011 09:46:27	21-Oct-2011 11:24:30	5883	50424	50424

Table 4-3 ATS_NL__0P missing data during Cycle 107

Data missing at L0 are also missing at L1B. The following L1B data were additionally missing from this cycle:

UTC Start	UTC Stop	Duration (s)	Orbit Start	Orbit End
08-Oct-2011 11:05:58	08-Oct-2011 12:39:09	5591	50238	50239
13-Oct-2011 09:50:09	13-Oct-2011 11:17:06	5217	50309	50310
13-Oct-2011 13:27:03	13-Oct-2011 13:41:28	865	50311	50311
14-Oct-2011 06:24:17	14-Oct-2011 09:06:40	9743	50321	50323

Table 4-4 ATS_TOA_1P missing data during Cycle 107

4.2.1 ORBITS AFFECTED BY POOR DATA QUALITY

The information reported in Section 4.2 does not consider the quality of the data, only whether or not it is available.

During this cycle, the following orbits contained frames suffering from bad/missing telemetry:

- 50322 (14/10/2011)
- 50382 (18/10/2011)
- 50423 (21/10/2011)

4.3 L0 and L1B Backlog Processing Status

There is no update available on the status of backlog processing.

5 DATA QUALITY CONTROL

5.1 Monitoring of Instrument Parameters

5.1.1 JITTER

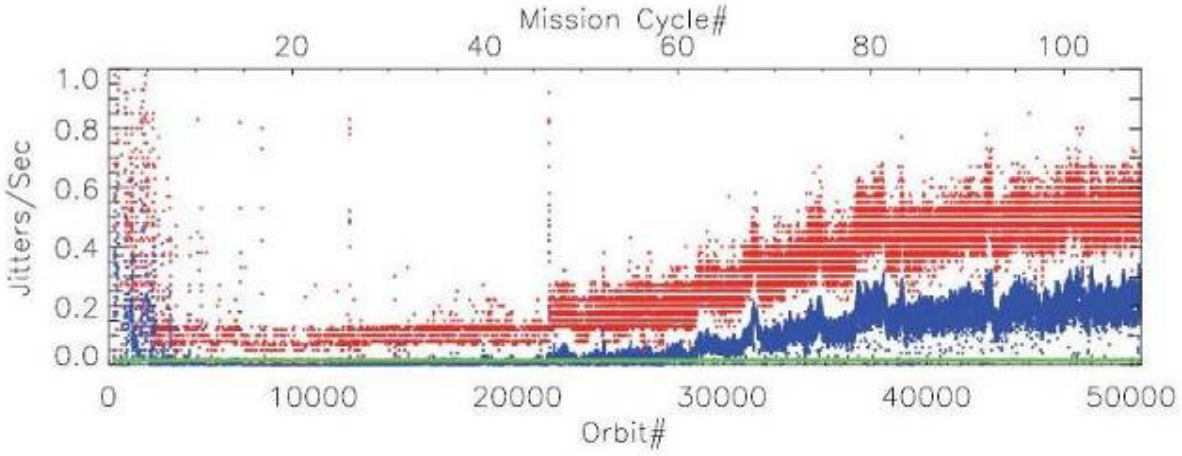

Figure 5-1 Jitter trend from mission start

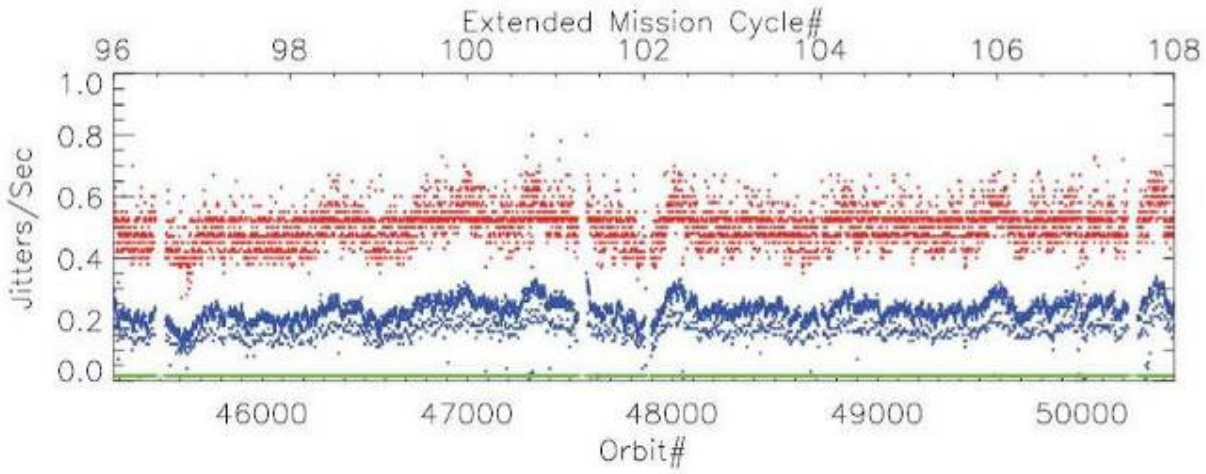

Figure 5-2 Jitter trend since the mission extension

The plots show the jitter-trend since the start of the mission and since the recent mission extension, against both orbit-number and cycle-number. The mean jitter-rate (per-orbit) is shown in blue and the maximum rate per orbit in red. The green horizontal line shows the nominal mean jitter-level achieved for much of the mission.

The jitter plot for the extended mission shows no significant change in the mean jitter-rate variation over this cycle compared to that in recent cycles.

5.1.2 SENSOR TEMPERATURE

The detector temperature plots for Cycle 107 can be found at:
http://www.aatsrops.rl.ac.uk/EDSX/CyclePlots/DetTemps107.pdf

Detector temperatures have been nominal throughout this cycle, given the outgassing.

5.1.3 VISCAL

NRT calibration quality for the AATSR reflectance channels has been maintained throughout the cycle apart from the outgassing period when no NRT VC1 files are delivered. The list of "orbital" VC1 files delivered for this cycle can be found at: http://www.aatsrops.rl.ac.uk/EDSX/CyclePlots/VC-107.txt

5.1.4 NE∆T

Information on the NE∆T is shown in Table 5-1. Figure 5-3 shows the trend since launch.

	Hot BB		Cold BB	
	T = 301.82K		T = 262.86K	
	Count	**NE∆T (mK)**	**Count**	**NE∆T (mK)**
12µm	1.57	32.9	1.19	34.6
11µm	1.52	31.0	1.12	33.6
3.7µm	2.54	32.2	1.21	76.6

Table 5-1 NE∆T information for 22 October 2011 (Cycle 107)

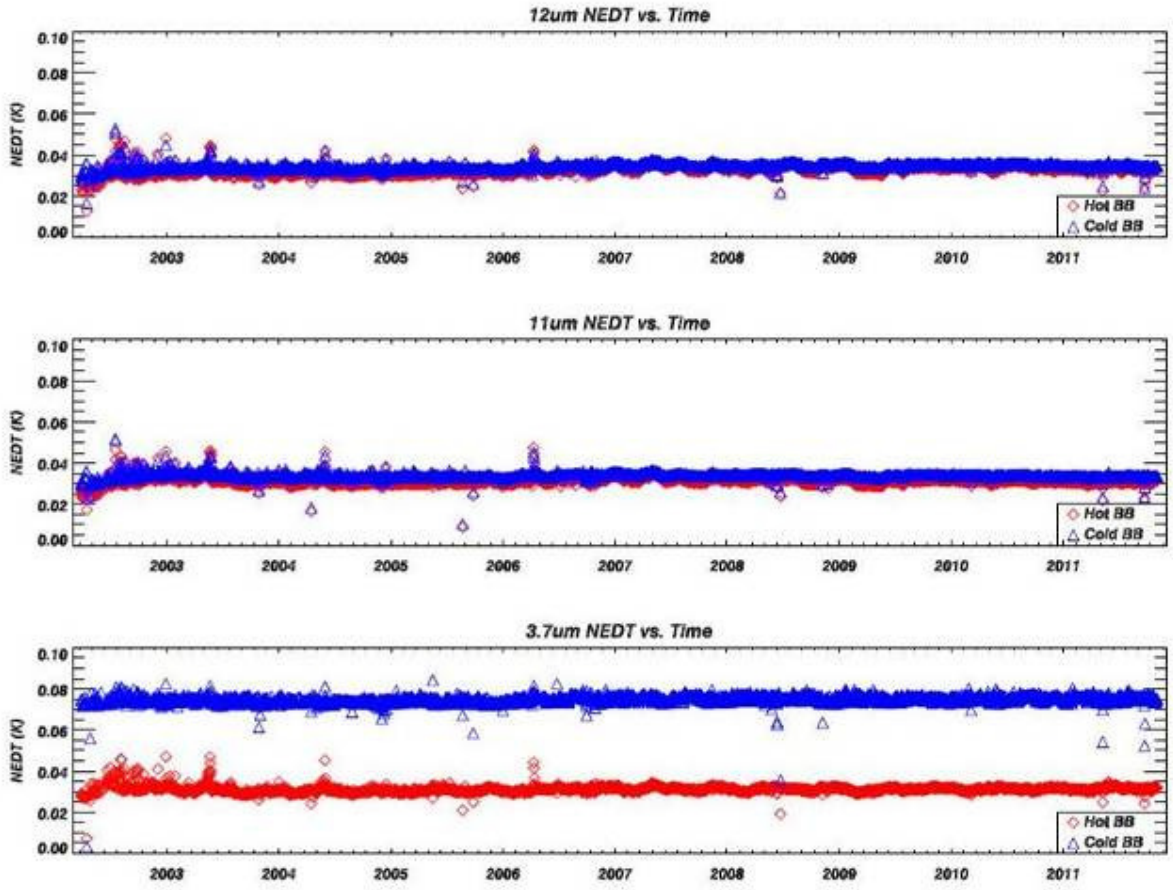

Figure 5-3 Time series of NE∆T since launch

5.2 User Rejection

There were no user rejections during this cycle.

5.3 Software Problem Reporting

This section describes the new and open SPRs, their potential impact on the data quality, and any SPRs that have been closed.

5.3.1 EXISTING SPRS THAT ARE STILL OPEN

The following SPRs are still open:

Wrong REF_DOC in MPH of AATSR products
NA-PR-10-05334
As a result of the AMALFI-2 pilot project, it has been discovered that the REF_DOC field in the MPH of AATSR products is different from the product specification name.
1) The REF_DOC should follow “AA-BB-CCC-DD-EEEE_V/I”, 23 characters where

AA-BB-CCC-DD-EEEE is the ESA standard document number and V/I is the volume/issue.
2) The referenced product spec is still 3/K. whilst the one applicable, and also referenced in the SRN of 6.03 is 4/A.

AATSR Child Products contain insufficient number of ADS records
NA-PR-08-03912
The number of ADS records present in AATSR child products is insufficient for processing of the entire product. Users are currently advised to order products of at least 1 granule longer to obtain all required ADS records. Excluding the SQADS and the scan pixel x and y ADS, the DPM requires that for AATSR full resolution products, the number of records in the ADS shall be one greater than the number of MDS granules in the product. Child products are currently produced with a number of ADS records equal to the number of MDS granules in the product. In the case of the SQADS, this is sampled only every 512 rows, rather then every 32, so in order to provide coverage for every granule in a child product, the number of SQADS records strictly required depends on the length of the child product and where the child product starts in relation to the 512 record boundaries. Parent products by definition start on a 512 record boundary, but child products need not. If we define a product segment of 512 consecutive rows (=16 granules) as a frame, then the number of SQADS records required in the child product is equal to the number of frames overlapped by the child product. For the case of the Scan Pixel x and y ADS, the records represent instrument scans, not image rows. There is no simple algorithm to define the number of records from the parent product that should be included in the child product.

Update to AATSR Child product generation requirements
NA-PR-08-04015
The 'Child Product Generation Requirements' on pages 520-521 of the document 'PDS Technical Specification for Maintenance and Evolution' (PO-RF-CSF-GS-20437) currently reads:
"For time extraction, for each data set in the parent product, the time stamp of the DSRs shall be compared to that of the requested start time (t0) segment. The first DSR extracted from each data set to form the new child data set is the one with a time stamp immediately preceding or equal to t0. The last DSR extracted from each DS is the one immediately preceding t1."
To ensure that a sufficient number of Auxiliary Data Set Records are present in AATSR child products, the requirement should be changed to read as follows:
"For time extraction, for each data set in the parent product, the time stamp of the DSRs shall be compared to that of the requested start time (t0) segment. The first DSR extracted from each data set to form the new child data set is the one with a time stamp immediately preceding or equal to t0. The last DSR extracted from each DS is the one immediately preceding t1.
For AATSR data, the last ADS DSR extracted from each DS is the one whose time label is equal to or greater than t1 provided such a DSR exists, otherwise the last ADS DSR in the product."

Processing of L1/L2 fails with product ATS_NL__0PNPDE20100515_214836_000061722089_00272_42911_1524.N1

IDEAS-PR-10-05411

The problem does not occur in prototype, but in PDGS operational chain and in Gamme validation platform. Processing the following L0 product to L1 and L2 fails ATS_NL__0PNPDE20100515_214836_000061722089_00272_42911_1524.N1.
Please consider that same error occurs also IN GAMME test environment.
19.08.2010 -Feedback from ELCA:"There is just a debug option that has to be removed from the optimization options while building AATSR IPF. When building the IPF with the correct options this error does not occur and the processing completes and generates L1/L2 products."

AATSR MPH OSV field does not agree with SPH auxiliary filename

IDEAS-PR-11-05568

We are noticing that, on occasion, the OSV source field in the MPH does not agree with the auxiliary data file name given in the SPH. For example: (1) in product ATS_TOA_1PRUPA20110527_222624_000065273103_00029_48319_8139.N1, the MPH gives the OSV source as "FR", while the SPH reports that the file used was actually an FPO file (AUX_FPO_AXVPDS20110528_102115_20110527_190825_20110606_212212); (2) in product ATS_TOA_1PNPDE20110526_021402_000066813103_00003_48293_4416.N1, the MPH gives the OSV source as "FP", while the SPH reports that the file used was actually an FRO file (AUX_FRO_AXVPDS20110528_102115_20110524_221000_20110527_005000). Note that this does not always happen, but seems to be related to when files are processed using a non-anticipated file type, but not in every instance. ELCA's analysis: "The solution is to compute in output product's MPH the OSV value based on the orbit file passed in the job order instead of using the L0 MPH's value."

AATSR: Reduce the logging noise by removing the warning on jitter

IDEAS-PR-11-05587

The requirement is that the scan jitter warnings are disabled (this information is present in the products themselves, and we are aware and monitoring jitter levels from the operational data anyway). There are numerous warnings of this type, even in the logs from a successful processing run, so they prevent the log from being easily read to diagnose any problems.
We see this also useful for PDGS, since the logging size will reduce.
It is agreed that this change shall be included in the IPF version for the reprocessing.

5.3.2 NEW SPRS SINCE THE LAST CYCLIC REPORT

The following SPR was opened since the last Cyclic Report:

AATSR:AATSR products non conformance to FODP
IDEAS-PR-11-05594
From O&M: PBI000000004179: The AATSR Flight Operations and Data Plan (FODP), PO-PL-ESA-AT-0152, Issue 2 Revision 5 dated 22 November 2001 defines the meaning of "consolidated" in Appendix B.1 as follows: "… time-ordered, no overlap nor data gap except when the instrument is not operated …", and for Level 0 there should be sufficient overlap only so that the higher level products can be chopped "… ANX to ANX …". The FODP is part of the high level agreement between ESA and Defra and so can be taken as the definitive requirement for AATSR products. We would like to enquire as to the current definition applied to consolidated products and ask that a change be proposed and the impact of such a change evaluated.
This PBI is a copy of the PBI1161. The PBI1161 was corrected via a CRQ but the delivery introduced other problem so the CRQ was discarded. Consequently, the problem described by PBI1161 is still present.

5.3.3 CLOSED SPRS

The following SPR has been closed since the last Cyclic Report. Note that although closed, the problem was not solved and it has been re-opened as the SPR in Section 5.3.2.

AATSR Consolidated Products
NA-PR-08-03952
The AATSR Flight Operations and Data Plan (FODP), PO-PL-ESA-AT-0152, Issue 2 Revision 5 dated 22 November 2001 defines the meaning of "consolidated" in Appendix B.1 as follows: "… time-ordered, no overlap nor data gap except when the instrument is not operated …", and for Level 0 there should be sufficient overlap only so that the higher level products can be chopped "… ANX to ANX …". The FODP is part of the high level agreement between ESA and Defra and so can be taken as the definitive requirement for AATSR products. We would like to enquire as to the current definition applied to consolidated products and ask that a change be proposed and the impact of such a change evaluated.

5.4 Monthly Level 3 Products

The following plots have been generated from the available Meteo products acquired for September 2011. These consist of 503 products from orbits 49700 to 50130. Figure 5-5, Figure 5-6, Figure 5-7 and Figure 5-8 show the SST average in dual and nadir views, the standard deviation and the number of contributory orbits for September 2011. Figure 5-9 and Figure 5-10 show anomalies of the monthly averages from an SST climatology. Please note that individual colour scales for each plot are not available, however the scheme used is given in Figure 5-4, and the data ranges of each plot are specified in the accompanying caption.

Figure 5-4 This is the colour scheme used for the following plots, running linearly from left to right with increasing magnitude

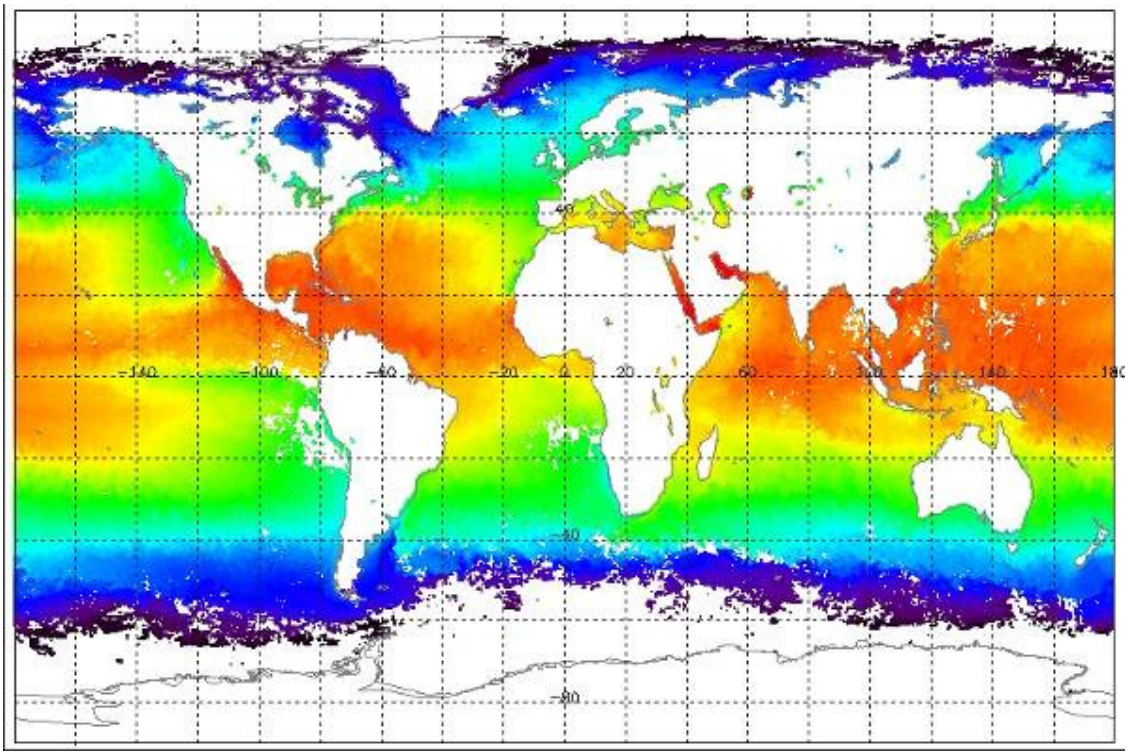

Figure 5-5 Monthly average Dual View SST, with a data range of 270 - 305 Kelvin for September 2011

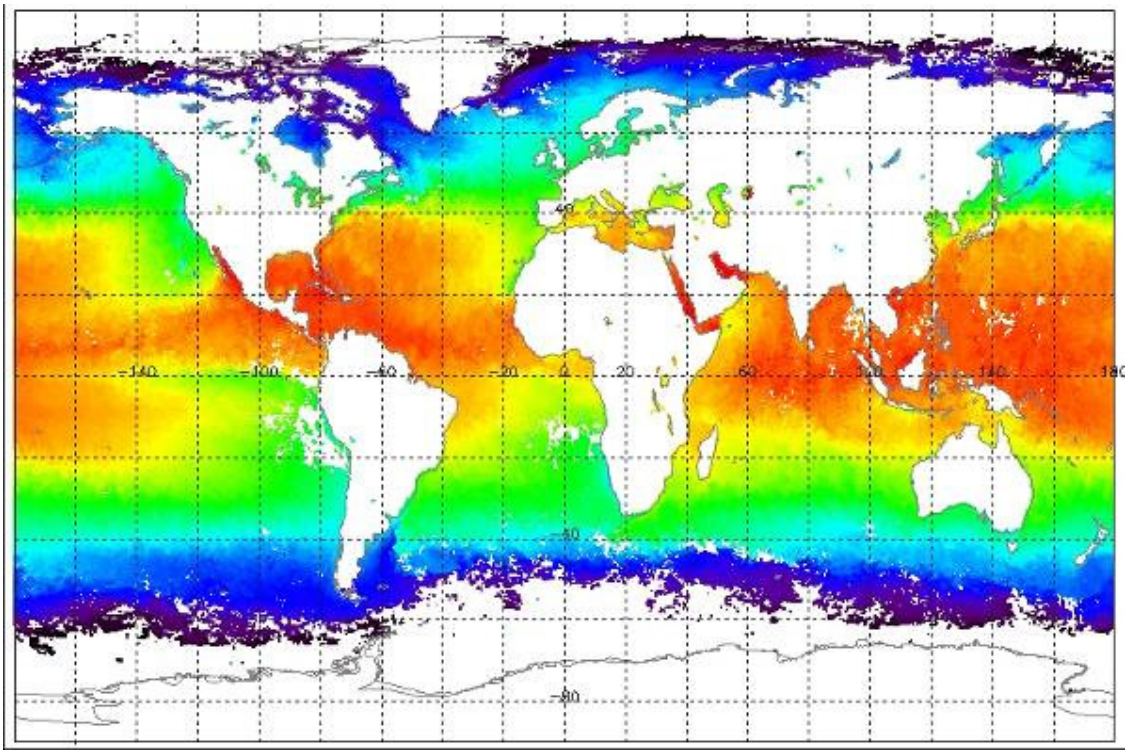

Figure 5-6 Monthly average Nadir View SST, with a data range of 270 – 305 Kelvin for September 2011

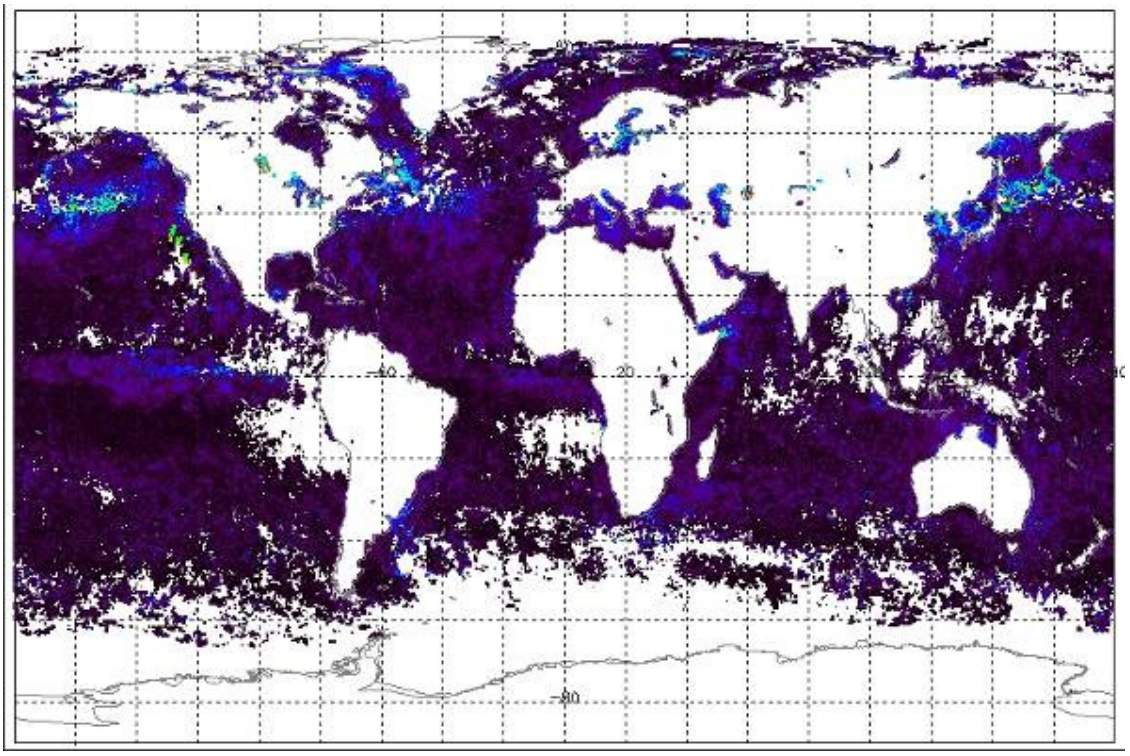

Figure 5-7 Standard deviation of the monthly average SST with a colour key range of 0 to 5 K, and a maximum value of 10 K for September 2011

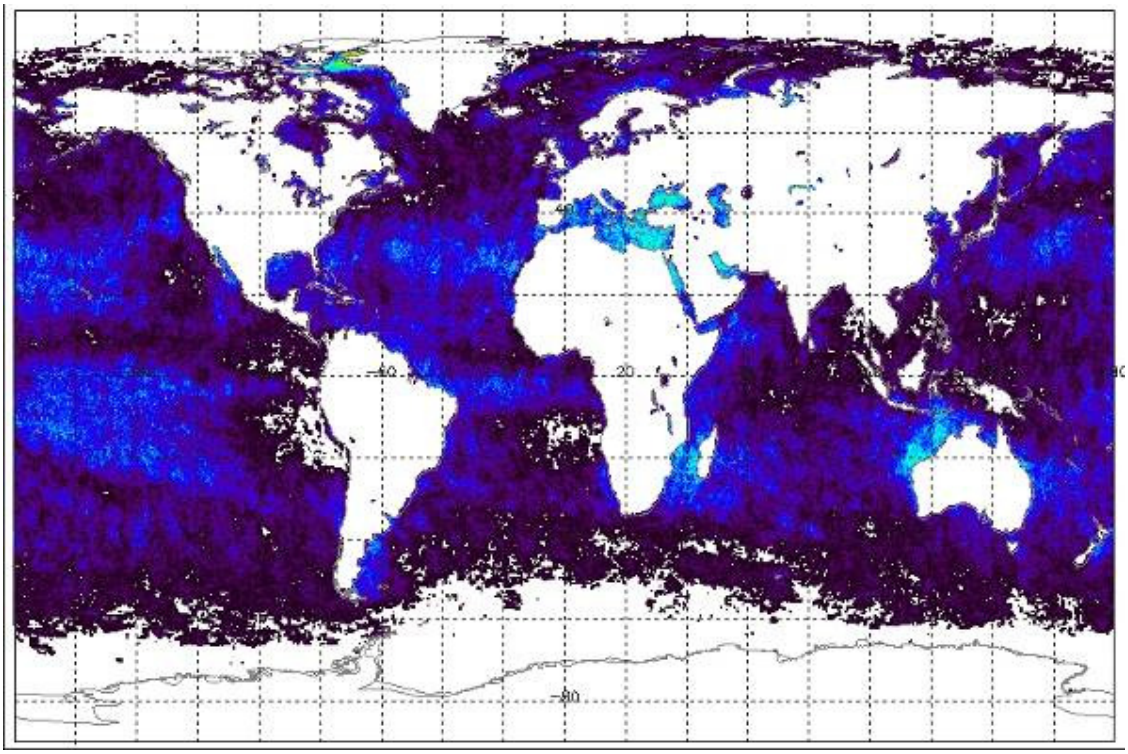

Figure 5-8 Number of contributory orbits to the calculation of the SST, with a colour key range of 0 to 26 (maximum value), for September 2011

Monthly SST anomaly maps, referenced to the GOSTA climatology dataset, are now being produced (beginning at Cyclic Report #106). Figure 5-9 and Figure 5-10 display the SST anomalies for dual- and nadir-view SSTs for September 2011, respectively. The anomaly scale runs from -10 K (blue) to +10 K (red).

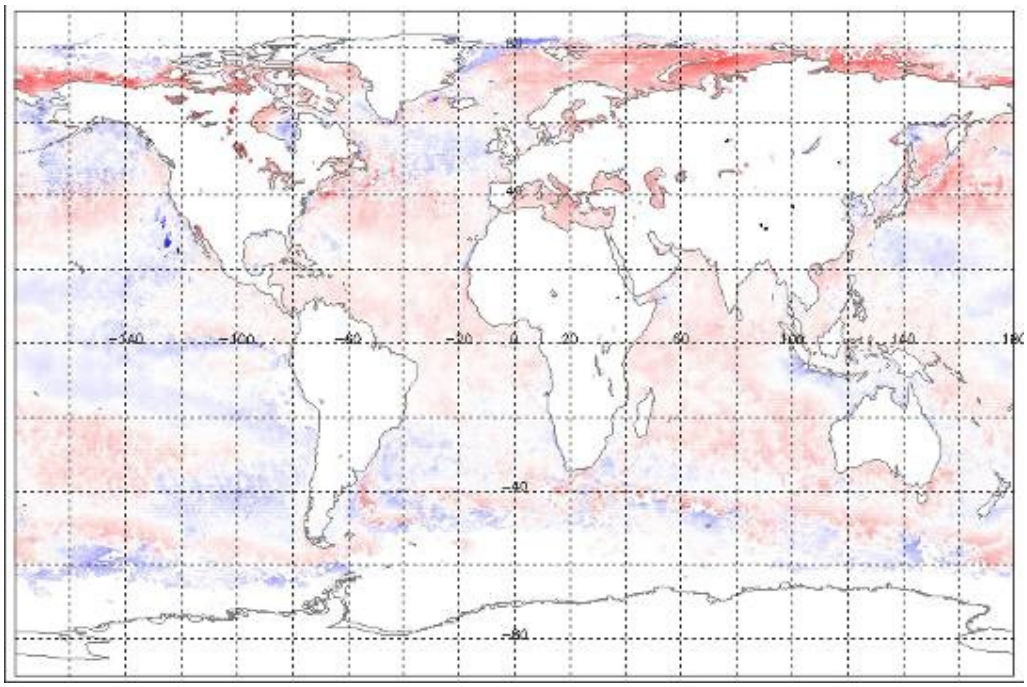

Figure 5-9 Anomaly map of Dual View SST for September 2011

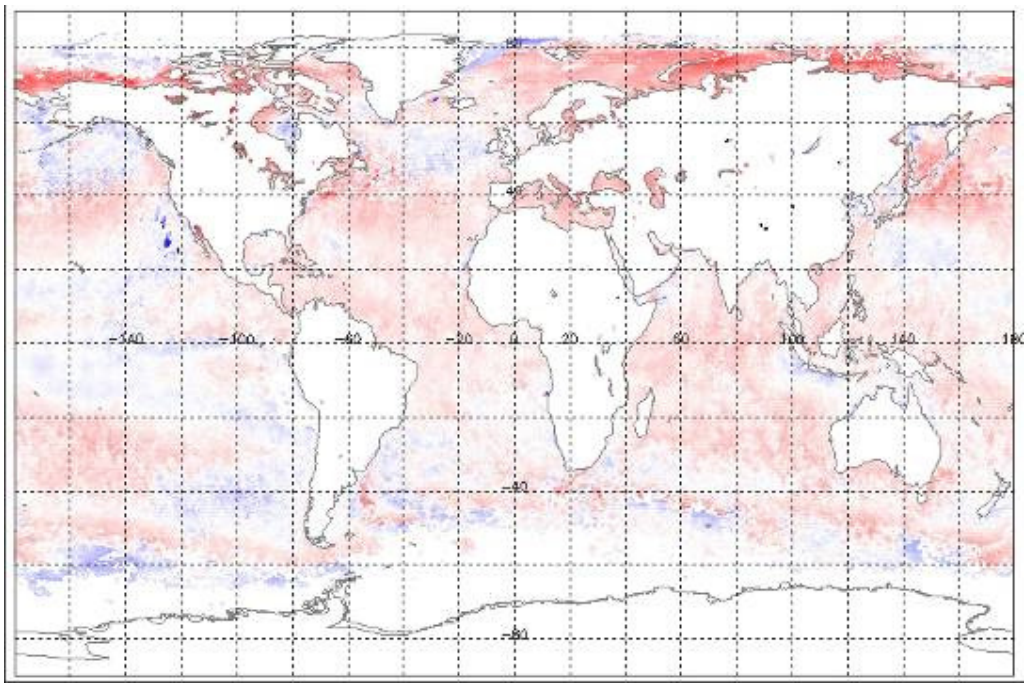

Figure 5-10 Anomaly map of Nadir View SST for September 2011

6 CALIBRATION/VALIDATION ACTIVITIES & RESULTS

6.1 Calibration

No calibration results were reported during this cycle.

6.2 Validation

The Met Office has validated the AATSR dual-view SST data using the global network of *in situ* drifting buoy SST data, the results for Cycle 107 being shown in Figure 6-1. The updated SST coefficients released in December 2005 were used in the AATSR SST retrievals.

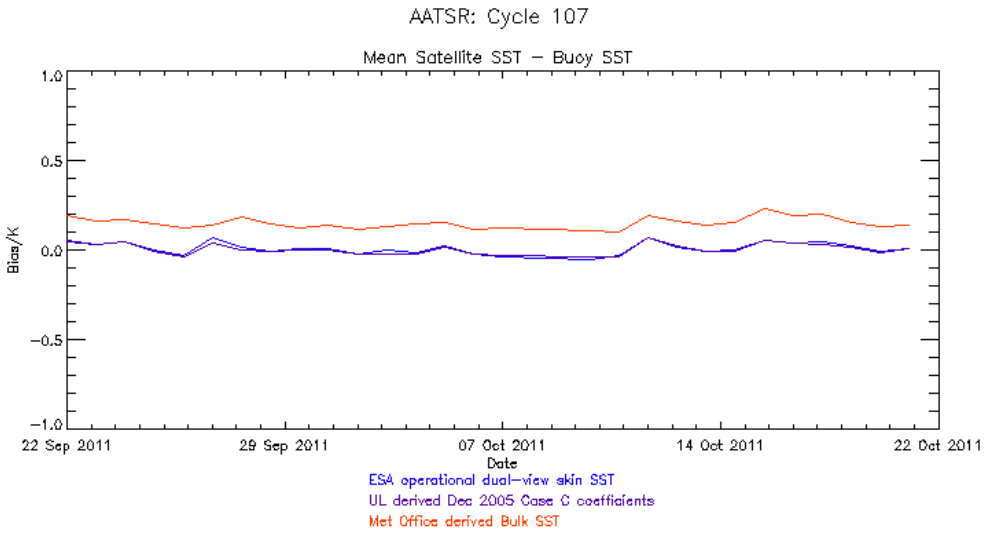

Figure 6-1 Comparison of daily mean difference between 10´ AATSR SST values and *in situ* drifting buoy SST for Cycle 107. Data provided by the Met Office

During cycle 107, there were 1304 night time match-ups, with a mean (UL derived dual-view skin SST minus buoy SST) of -0.05 K, standard deviation 0.26 K, and a mean (dual-view depth SST minus buoy SST) of +0.09 K, standard deviation 0.24 K. A total of 1172 daytime match-ups were found, with a mean (UL derived dual-view skin SST minus buoy SST) of +0.07 K, standard deviation 0.28 K, and a mean (dual-view depth SST minus buoy SST) of +0.21 K, standard deviation 0.28 K. As these data are comparisons of a single point buoy measurement against a much larger spatially averaged value they are not a true indicator of AATSR's accuracy and are used to show consistency of data quality between cycles.

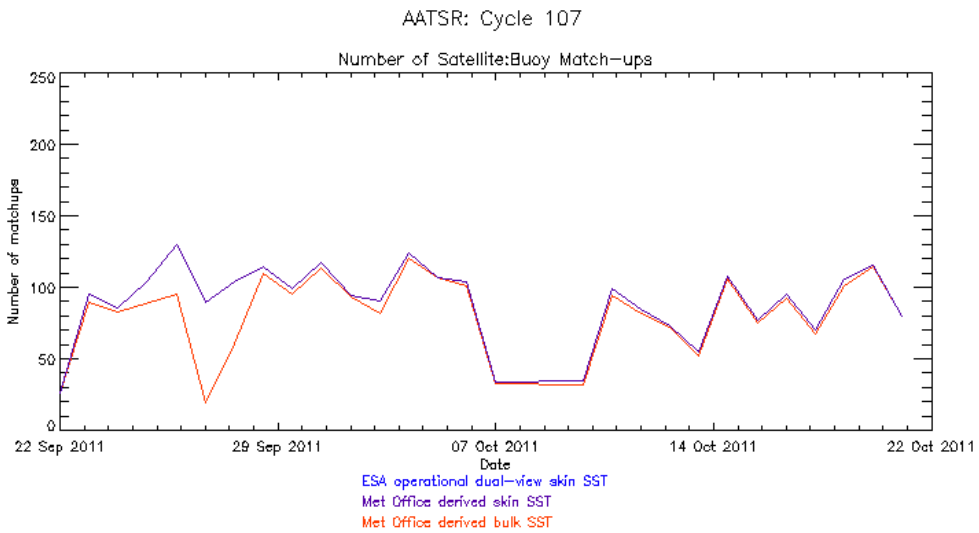

Figure 6-2 Plot of daily number of match-ups between 10´ AATSR SST values and *in situ* buoy SST for Cycle 107. Data provided by the Met Office

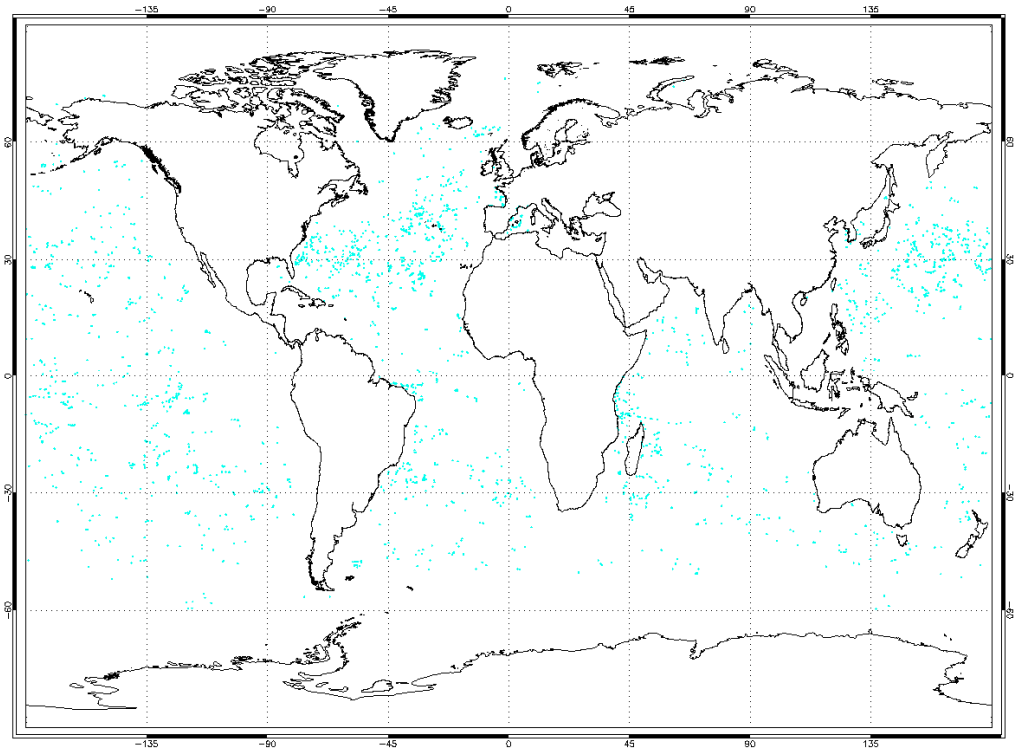

Figure 6-3 Map showing global distribution of match-ups between 10´ AATSR SST values and *in situ* buoy SST for Cycle 107. The cyan dots indicate a match-up to a drifting buoy. Data provided by the Met Office

7 DISCLAIMERS

No new disclaimers have been issued during this cycle.