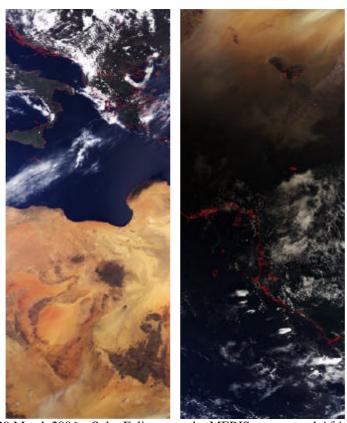


MERIS CYCLIC REPORT 46TH 13TH MARCH 2006– 17TH APRIL 2006



29 March 2006 – Solar Eclipse seen by MERIS over central Africa

prepared by/préparé par

DPQC MERIS Team and QWG

reference/réference

issue/édition 1 revision/révision 0

date of issue/date d'édition April 2006

status/état

Document type/type de

MERIS Cyclic Report

document

Distribution/distribution



APPROVAL

| Title titre | MERIS Cyclic Report – Cycle 46 th | issue issue | revision revision |
|-------------------------|--|----------------|----------------------|
| author auteur | G. Obolensky | date date | |
| approved by approuvé by | L. Bourg | date date | |

CHANGE LOG

| reason for change /raison du changement | issue/ <i>issue</i> | revision/revision | date/date |
|---|---------------------|-------------------|-----------|
| | | | |

CHANGE RECORD

Issue: 1 Revision: 0

| reason for change/raison du changement | paragraph(s)/parag raph(s) |
|--|-------------------------------|
| | |



TABLE OF CONTENTS

| 1 | INT | FRODUCTION | 1 |
|---|------|--|----|
| | 1.1 | Acronyms and abbreviations | |
| | • | | |
| 2 | SU | MMARY | 3 |
| · | | | |
| 3 | PR | OCESSOR VERSION AND PROCESSING CONFIGURATION | 3 |
| | 3.1 | MERIS Processor Release | |
| | 3.2 | Auxiliary data files (ADF) | |
| | 3.3 | Level 1/Level 2 Configuration (SciHiO2) | 4 |
| | 3.4 | Configuration Table Interface (CTI) | 5 |
| | 3.5 | Level 1/ Level 2 RR or FR products | 5 |
| 4 | DD | S STATUS | 4 |
| 4 | 4.1 | MERIS Level 0 products availability | |
| | 4.1 | MERIS FR acquisitions | |
| | 4.3 | MER_CA_ 0P Products | |
| | т.Ј | MER_C/101 110ddcts | 11 |
| 5 | INS | STRUMENT/DATA UNAVAILABILITY | |
| | 5.1 | Instrument Unavailability | |
| | 5.2 | Data Unavailability | 12 |
| | | | |
| 6 | | LIBRATION AND INSTRUMENT CHARACTERIZATION | |
| | 6.1 | Calibration | |
| | 6.1. | | |
| | 6.1. | 1 | |
| | 6.1. | | |
| | 6.1. | 1 | |
| | 6.1. | | |
| | 6.2 | Instrument Characterization | |
| | 6.2. | \mathcal{E} | |
| | 6.2. | \mathcal{E} | |
| | 6.2. | | |
| | 6.2. | 4 Spectral evolution from erbium measurements | 16 |
| 7 | DA | TA QUALITY CONTROL | 16 |
| | 7.1 | MERIS products quality status | |
| | 7.2 | Anomalies and Software Problem Reporting (SPR) | |



| 8 FIRST 2003 MERIS ARCHIVE REPROCESSING | 16 |
|---|----|
| 9 SECOND 2005 MERIS ARCHIVE REPROCESSING | 16 |
| 10 MERIS PROCESSOR EVOLUTION | 16 |
| 11 VALIDATION ACTIVITIES AND RESULTS | 17 |
| 12 WATER VAPOUR AND BROWSE MAPS | 17 |
| 13 HOW TO GET MERIS DATA | 17 |
| 14 GENERAL INFORMATION | 17 |
| TABLE OF ILLUSTRATIONS | |
| Table 1 – Cycle Characteristics | 3 |
| Table 2 – Auxiliary Data Files in use for the cycle #46 | |
| Table 3 – MERIS Level 1 Auxiliary Data Files | |
| Table 4 – MERIS Level 1 Auxiliary Data Files | |
| Table 5 – Reduced Resolution Level 0 products availability | 6 |
| Figure 1 - MER_RR0P generated/missing by the ground segment during cycle #46 | 6 |
| Table 6 – Full Resolution Level 0 products availability | |
| Figure 2 - MER_FR0P generated/missing by the ground segment during cycle #46 | |
| Figure 3 - MERIS Full Resolution Level 0 acquisitions - Part #1 - 14/03/2006 - 18/03/2006 | |
| Figure 4 - MERIS Full Resolution Level 0 acquisitions - Part #2 –19/03/2006 – 23/03/2006 | |
| Figure 5 - MERIS Full Resolution Level 0 acquisitions - Part #3 - 24/03/2006 - 28/03/2006 | |
| Figure 6 - MERIS Full Resolution Level 0 acquisitions - Part #4 - 29/03/2006 - 02/04/2006 | |
| Figure 7 - MERIS Full Resolution Level 0 acquisitions - Part #5 - 03/04/2006 - 07/04/2006 | |
| Figure 8 - MERIS Full Resolution Level 0 acquisitions - Part #6 - 08/04/2006 - 12/04/2006 | |
| Figure 9 - MERIS Full Resolution Level 0 acquisitions - Part #7 – 13/04/2006 – 17/04/2006 Figure 10 - VEU Temperature during cycle #46 | |
| Figure 11 - METRIC calibration site map | |
| 1 izuio 11 - midinio cantianti suo map | |



1 INTRODUCTION

The MERIS Cyclic Report is distributed by ESRIN-PCF (Product Control Facility) to keep the MERIS Community informed of any modification regarding the processor, updates of auxiliary products, anomalies of the instrument behavior, data acquisition and processing, and finally the status of the calibration, validation, and quality control activities.

The Cyclic Report collects the inputs coming from different groups involved in MERIS data exploitation:

- ESRIN- Product Control Facility (PCF)
- Quality Working Group (QWG)
- MERIS/AATSR validation team (MAVT)
- Brockmann Consult (BC)
- ACRI-st
- Laboratoire d'Océanographie de Villefranche (LOV)
- Centre National d'Études Spatiales (CNES)
- Frei Universitat Berlin (FUB)
- Laboratoire Interdisciplinaire en Sciences de l'Environnement (LISE)

The main objective of the Cyclic Report is to provide the users community with useful information regarding the instrument performances, the data production chain, the results of calibration activities and validation campaigns, at the end of each ENVISAT cycle, which represents 501 orbits, about 35 days.

1.1 Acronyms and abbreviations

ADF Auxiliary Data File
ADS Auxiliary Data Server
ARF Archiving Facility (PDS)

CNES Centre National d'Études Spatiales
CTI Configuration Table Interface

CR Cyclic Report

DAC Diffuser Ageing Calibration
DMOP Detailed Mission Operation Plan

DOY Day Of Year DS Data Server

DSD Data Set Descriptor

EDAC Error Detection And Correction

FR Full Resolution

FUB Freie Universitat Berlin

GS Ground Segment

IAT Interactive Analysis Tool IDL Interactive Data Language

IECF Instrument Engineering and Calibration Facilities

IPF Instrument Processing Facilities (PDS)



INV Inventory Facilities (PDS)
JRC Joint Research Centre
LAN Local Area Network

LISE Laboratoire Interdisciplinaire en Sciences de l'Environnement

LOV Laboratoire d'Océanographie de Villefranche-sur-mer

MERIS Medium Resolution Image Spectrometer

MPH Main Product Header

OP Operational Phase of ENVISAT

OCL Offset Control Loop

PAC Processing and Archiving Centre (PDS)
PDCC Payload Data Control Centre (PDS)
PDHS Payload Data Handling Station (PDS)

PDS Payload Data Segment PEP Payload Exploitation Plan

QC Quality Control

QWG Quality Control Working Group

QUARC Quality Analysis and Reporting Computer

RGC Radiometric Gain Calibration

RR Reduced Resolution
SEU Single Event Upset
SPH Specific Product Header
SQADS Summary Quality ADS

WV1 Wavelength type 1 calibration WV2 Wavelength type 2 calibration



2 SUMMARY

Cycle #46 starts on the 13th of March 2006 and stops on the 17th of April 2006.

- No auxiliary files were disseminated during the reporting period.
- Three routine Radiometric Gain type calibrations have been successfully executed in the reporting period
- No Instrument unavailability has occurred during the reporting period.
- Two data unavailability have occurred during the reporting period.

Details about the start and stop of the cycle can be found in the table below.

| Cycle number | 46 |
|--------------|-------------------------|
| Start time | 13 March 2006, 21:59:29 |
| Stop time | 17 April 2006, 21:59:29 |
| Start orbit | 21097 |
| Stop orbit | 21597 |

Table 1 - Cycle Characteristics

3 PROCESSOR VERSION AND PROCESSING CONFIGURATION

3.1 MERIS Processor Release

IPF version 4.10 is the operational processor at the MERIS processing centers (stations and PACs). The reference documents for the operational processor are listed below:

| 1. ENVISAT Product Specification | Iss_4_Rev_A | PO-RS-MDA-GS-2009 |
|---|--------------------|---------------------|
| 2. MERIS Input/Output Data Definition | Iss_6_Rev_1a_01091 | 4 PO-TN-MEL-Gs-0003 |
| 3. MERIS Level 1b Detailed Processing Model | Iss_6_Rev_1a_01091 | 4 PO-TN-MEL-GS-0002 |
| 4. MERIS Level 2b Detailed Processing Model | Iss 6 Rev 1a 01091 | 4 PO-TN-MEL-GS-0006 |

Issues 6.1a consist in issue 6.1 augmented/corrected by change pages issued as 6.1a



3.2 Auxiliary data files (ADF)

| Product description | Product name | Comment |
|--|--------------|------------|
| Level 1 aux files | | |
| Instrument Characterization Data | MER_INS | No changes |
| Processing Level 1 Control Parameters data | MER_CP1 | No changes |
| Radiometric Calibration data | MER_RAC | No changes |
| Digital Roughness Model | MER_DRM | No changes |
| Digital Elevation Model | AUX_DEM | No changes |
| Land Surface Map | AUX_LSM | No changes |
| Attitude data file | AUX_ATT | No changes |
| Level 2 aux files | | |
| Aerosol Climatology data | MER_AER | No changes |
| Atmosphere Parameter data | MER_ATP | No changes |
| Cloud Measurement Parameters data | MER_CMP | No changes |
| Processing Level-2 Control Parameters data | MER_CP2 | No changes |
| Land Aerosols Parameters data | MER_LAP | No changes |
| Land Vegetation Index parameters data | MER_LVI | No changes |
| Ocean Aerosols Parameters data | MER_OAP | No changes |
| Ocean I parameters data | MER_OC1 | No changes |
| Ocean II parameters data | MER_OC2 | No changes |
| Water Vapor Parameters | MER_WVP | No changes |

Table 2 – Auxiliary Data Files in use for the cycle #46

Note: The other files not included into the list change every time (ECMWF).

3.3 Level 1/Level 2 Configuration (SciHiO2)

The current operational ADF files, used in the processing from Level 0 data to Level 1b or Level 2 products, are listed in the following tables. Note that no new auxiliary files were disseminated during Cycle #46.



• Level 1 ADF configuration:

| Product name | Start Validity |
|---|----------------|
| MER_INS_AXVIEC20030620_120000_20020321_193100_20121008_190821 | 21/03/2002 |
| MER_CP1_AXVIEC20030620_120000_20020429_040000_20120920_173421 | 29/04/2002 |
| MER_RAC_AXVIEC20030620_120000_20021224_121445_20121224_121445 | 24/12/2003 |
| MER_DRM_AXVIEC20020122_083343_20020101_000000_20200101_000000 | 01/01/2002 |
| AUX_DEM_AXVIEC20031201_000000_20031201_000000_20200101_000000 | 01/12/2003 |
| AUX_LSM_AXVIEC20020123_141228_20020101_000000_20200101_000000 | 01/01/2002 |
| AUX_ATT_AXVIEC20020924_131534_20020703_120000_20781231_235959 | 03/07/2002 |

Table 3 – MERIS Level 1 Auxiliary Data Files

• Level 2 ADF configuration:

| Product name | Start Validity |
|---|----------------|
| MER_AER_AXVIEC20030620_120000_20020321_193100_20200101_000000 | 21/03/2002 |
| MER_ATP_AXVIEC20030620_120000_20021224_121445_20121224_121445 | 24/12/2002 |
| MER_CMP_AXVIEC20030620_120000_20021224_121445_20120321_193100 | 24/12/2002 |
| MER_CP2_AXVIEC20031120_104149_20021224_121445_20121224_121445 | 24/12/2002 |
| MER_LAP_AXVIEC20030715_151450_20020321_193100_20120321_193100 | 21/03/2002 |
| MER_LVI_AXVIEC20030620_120000_20020321_193100_20130224_164916 | 21/03/2002 |
| MER_OAP_AXVIEC20030620_120001_20020321_193100_20120321_193100 | 21/03/2002 |
| MER_OC1_AXVIEC20030620_120000_20020321_193100_20120321_193100 | 21/03/2002 |
| MER_OC2_AXVIEC20030620_120000_20020321_193100_20120624_174339 | 21/03/2002 |
| MER_WVP_AXVIEC20030620_120000_20020321_193100_20120321_193100 | 21/03/2002 |

Table 4 - MERIS Level 1 Auxiliary Data Files

3.4 Configuration Table Interface (CTI)

No new CTI disseminated during cycle #46.

3.5 Level 1/ Level 2 RR or FR products

During cycle #46 no format changes or algorithm modifications regarding MERIS RR and FR products were implemented into the operational processor.

A new product type has been introduced with IPF version 4.10: the Full Swath product (4481 pixels per line). The Full Swath format includes new FR Level 1b, Level 2 and Browse products; however the ordering is not yet possible since the Full Swath operations are not yet defined.



4 PDS STATUS

The statistics resulting from the query to the PDS inventory facility (INV) for the MERIS products availability are presented in the following.

4.1 MERIS Level 0 products availability

Table below shows the statistics regarding the RR L0 availability (compared to the planned production).

| Week | MER_RR0P % | |
|---------------------|-------------|---------|
| | Inventoried | Missing |
| From 13/03 to 20/03 | 100 | 1.00 |
| From 20/03 to 27/03 | 99.16 | 1.04 |
| From 27/03 to 03/04 | 100 | 0.11 |
| From 03/04 to 10/04 | 70.95 | 30.66 |
| From 10/04 to 17/04 | 100 | 1.00 |

Table 5 - Reduced Resolution Level 0 products availability

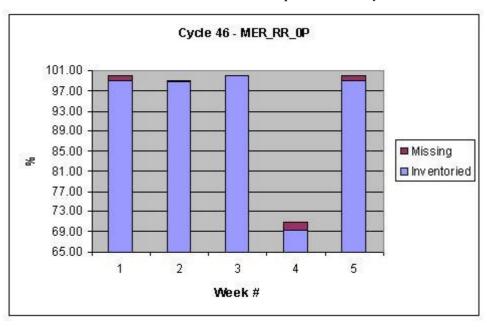


Figure 1 - MER_RR__0P generated/missing by the ground segment during cycle #46

The number of RR Level 0 products acquired during the cycle is about 93.24 % of the planned ones.



The table below shows the statistics regarding the FR L0 availability (compared to the planned production).

| Week | MER_FR0P % | |
|---------------------|-------------|---------|
| | Inventoried | Missing |
| From 13/03 to 20/03 | 100 | 0.00 |
| From 20/03 to 27/03 | 96.53 | 3.80 |
| From 27/03 to 03/04 | 100 | 0.03 |
| From 03/04 to 10/04 | 70 | 32.89 |
| From 10/04 to 17/04 | 98.92 | 1.48 |

Table 6 - Full Resolution Level 0 products availability

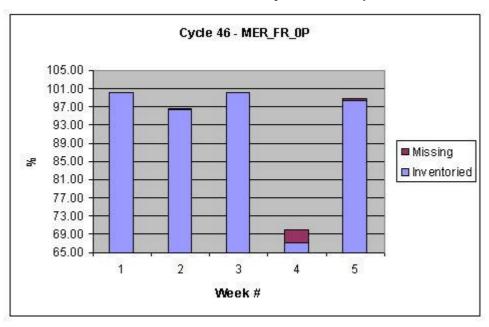


Figure 2 - MER_FR__0P generated/missing by the ground segment during cycle #46 $\,$

The number of FR Level 0 products generated during the cycle is about 92.36 % of the planned ones.

4.2 MERIS FR acquisitions

The pictures below show the MERIS Full Resolution global coverage for the reporting period. As specified for this type of MERIS products, all lands and coastal areas are covered by MERIS FR acquisitions. Due to technical issues, the last weeks pictures are not available.



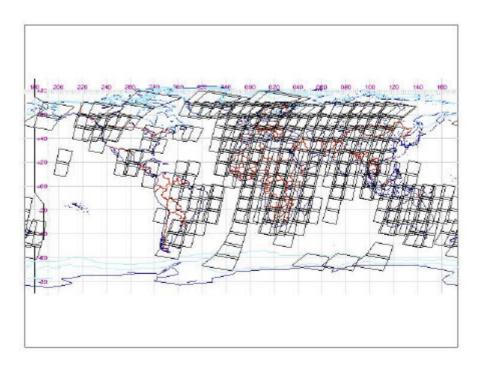


Figure 3 - MERIS Full Resolution Level 0 acquisitions - Part #1 – 14/03/2006 - 18/03/2006

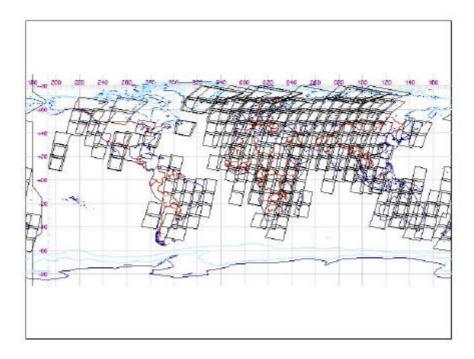


Figure 4 - MERIS Full Resolution Level 0 acquisitions - Part #2 -19/03/2006 - 23/03/2006



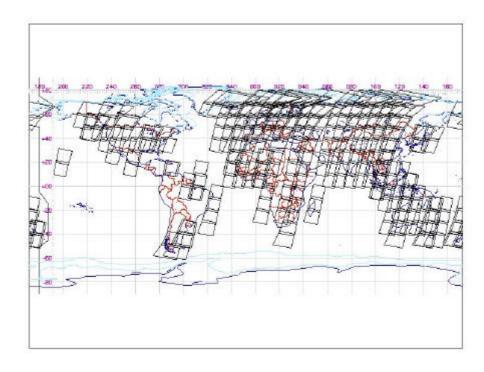


Figure 5 - MERIS Full Resolution Level 0 acquisitions - Part #3 – 24/03/2006 - 28/03/2006

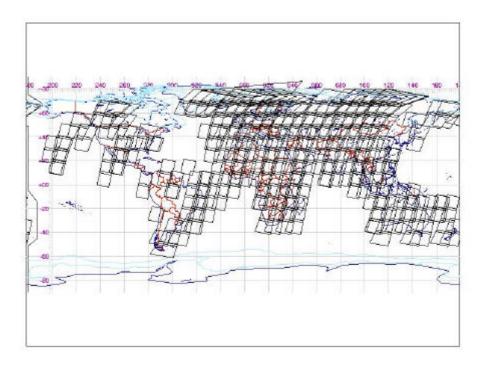


Figure 6 - MERIS Full Resolution Level 0 acquisitions - Part #4 – 29/03/2006 - 02/04/2006



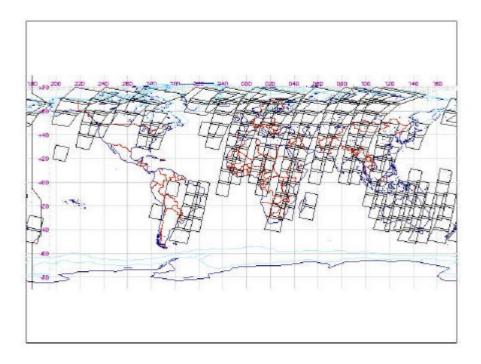


Figure 7 - MERIS Full Resolution Level 0 acquisitions - Part #5 $-\,03/04/2006-07/04/2006$

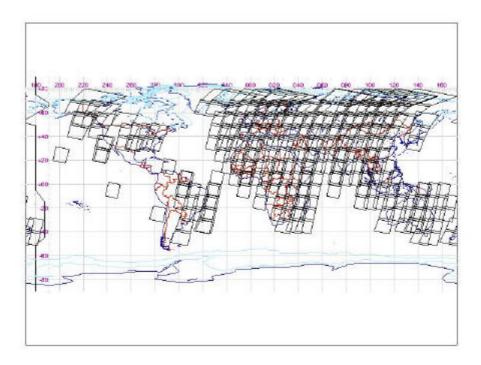


Figure 8 - MERIS Full Resolution Level 0 acquisitions - Part #6 – 08/04/2006 – 12/04/2006



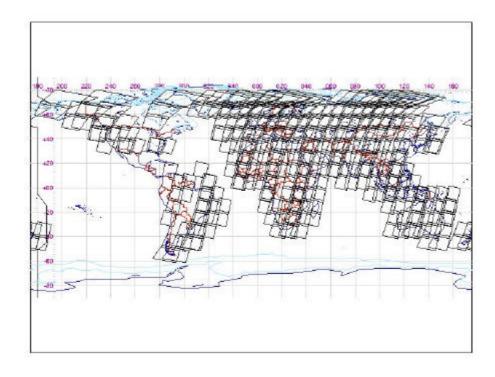


Figure 9 - MERIS Full Resolution Level 0 acquisitions - Part #7 - 13/04/2006 - 17/04/2006

4.3 MER CA 0P Products

During Cycle #46, two RGC radiometric gain routine calibrations have been planned during one orbit each, on the 25th of March in orbit 21260 and on the 08th of April in orbit 21460. Due to the Envisat unavailability (see section 5.1), the second one was not executed and was postponed to the 08th of April 2006 in orbit 21468. This means that all the RC are now synchronized on orbits xx468 every 200 orbits. Nothing changes for the WVx and the DAC type calibrations.

All the calibrations were successfully executed on the 25th of March and 08th of April, in orbits respectively 21260 and 21468.

The list of calibration files is reported below: MER_CA__0PNPDK20060325_082815_000001792046_00164_21260_0003.N1

RGC

Information concerning the postponed RGC calibration file will be published in the next Cyclic report (#47).



5 INSTRUMENT/DATA UNAVAILABILITY

5.1 Instrument Unavailability

There was one period of instrument unavailability reported during cycle #46:

➤ On 6 April 2006, an anomaly occurred on-board Envisat leading to the interruption of the measurements of all the payload instruments. At 02:09 UTC, the Service Module computer hardware detected an illegal memory access by the flight software. As a consequence some units of the computer were reconfigured autonomously to the B-chain and the payload instruments were switched off. A few seconds after, a problem at flight software level occurred. This problem caused a further autonomous reconfiguration onboard and all units of the service module computer were configured to the B-chain. Protective measures have been taken to prevent any further problems. The Recovery of MERIS was planned for Saturday 09th of April. The first orbits were carefully analysed, results showed a return to nominal parameters.

In the reporting period, 57 EDAC-corrected SEU occurred.

5.2 Data Unavailability

There was one period of data unavailability reported during cycle #46.

• Due to the unavailability of the entire ENVISAT platform (see section 5.1), no MERIS data were available starting from DOY 2006.096 at 02:09:26 until DOY 2006.098 at 18:44:27 When the instrument was totally back to its nominal parameters.

Note: Extra commanding in Direct and Averaging mode has been implemented on-board by the FOCC to reduce loss of data in case of SDPSS switches unexpectedly into PAUSE mode. This update is implemented since orbit 20944 (03 rd of March 2006) starting at the equator with a frequency of 1 Direct & Averaging command per minute.

6 CALIBRATION AND INSTRUMENT CHARACTERIZATION

6.1 Calibration

6.1.1 Radiometric calibration

During Cycle #46 two radiometric calibrations (RGC type) were successfully executed on the 25^{th} of March and 08^{th} of April. For more details see section 4.3.

6.1.2 Spectral calibration

No Erbium calibration was planned for Cycle #46.

6.1.3 Geolocation

The accuracy specification for MERIS geolocation is 2000 m, with an operational goal of 150 m. The 290 m (nadir) bands 2, 5, 8 are used to estimate the absolute geolocation accuracy.



This analysis shows significant improvements since launch, with one major upgrade, which occurred in 2003 DOY (Day of Year) 343. The update of the star tracker has been performed to reduce the systematic offset and improve orientation parameters. Global absolute geolocation error (North and South hemispheres) for the three consecutives periods can be summarized as follow:

- Initially, after the launch, according to results related to the 2002 period, the geolocation accuracy is on the order of ± 135 m along-track and ± 207 meters across-track. The RMS absolute geolocation error stays within the range of 251.24 ± 81 m.
- (II) The 2003 period is characterized by a degradation of the absolute geolocation accuracy where error is around ±209 meters along-track and ±295 meters across-track. For this period, the RMS absolute geolocation error stays within the range of 368.39 ± 67 m.
- (III) After the update, 2004 period, MERIS geolocation is achieving the goal of 300 m with accuracy of \pm 132 m along-track and \pm 165 m across-track. The RMS absolute geolocation error remains within the range of 212 ± 22 m.

When correcting products from the systematic offset (centered results), for 2004 period the RMS absolute geolocation error stays within the range of 166 ± 18 m. Products collection located on northern hemisphere is much larger than the one from the Southern hemisphere. Comparison between the two sets of results is not trivial. For the 2004 period, this study demonstrated the temporal stability of the absolute geolocation. More results are now needed to confirm this trend.

For more details, refer to the Gael Consultant (Fr) report available on the ESA website: http://earth.esa.int/pcs/envisat/meris/reports/

6.1.4 VEU Temperature Analysis

During one of the operation modes of MERIS, Stabilization mode, a thermal regulation of VEU (Video Electronic Unit) unit is performed in order to stabilize its temperature to reach full performances and insure a safe transition towards Observation and Calibration modes.

During observation, the VEU Temperature has to remain in the operational acceptance temperature range $-10^{\circ}/+50^{\circ}$ in order to meet the image quality requirements. The VEU temperature should be maximum $+/-10^{\circ}$ C different from the last radiometric calibration for optimum performance.

During cycle #46 the VEU temperature does not show any anomalous behavior, being into the nominal operating temperature range over all its nominal functioning.

On 06th of April, Envisat encountered an unexpected anomaly which induced the complete switch-off of all the payload instruments. Starting from 6th of April at 02:09:26, the VEU was Off and its temperature fell to 0 °C. Starting from 07th of April in the afternoon, Envisat was progressively switched On and the VEU Temperature raises progressively to its Nominal value (about 25°C) (see Figure 10).

.



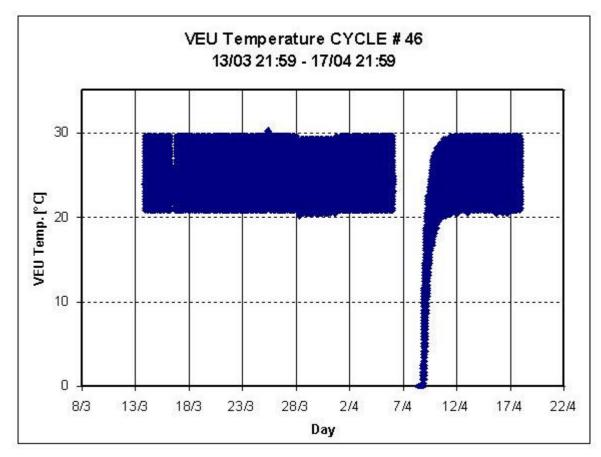


Figure 10 - VEU Temperature during cycle #46

6.1.5 Vicarious calibration results

For absolute calibration of MERIS by vicarious methods, METRIC2.0 tools is used to perform data extraction and spatial compression from MERIS Level1b products over specified sites following site type specific radiometric and geographic criteria. The child L1b products are ordered systematically on the basis of sites definition and mission analysis. Because the list of sites can be over dimensioned and vary with season, it has a validity period of 3 months. Each L1b child product is submitted to METRIC with the correct version of auxiliary files MER_INS_AX and MER_CP1_AX used during its generation and a dedicated resource file where are stored all parameters necessary for data filtering (cloud and aerosol screening, distance from coast...). Metric generates one file for each selected site pertaining to the following categories, according to the potential use of the data in the calibration processing: Rayleigh, Glitter, Desert, Snow, and Buoy. Output files have HDF format.

During cycle #24 new overpass tables have been regenerated for all sites of interest updating the relative orbits inside the cycle. The site map is shown in the following picture:



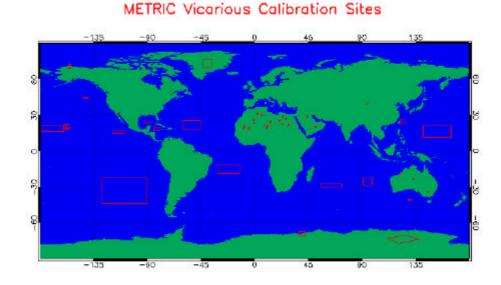


Figure 11 - METRIC calibration site map

Based on the second reprocessing dataset (see section 9), the entire METRIC sites Child products will be generated to be processed with the last version of the METRIC tool (2.0).

This reprocessing has started in the current of December 2005 in ACRI premises, and will concern the data starting from the ENVISAT launch to present. The METRIC v2.0 tool has been delivered to ESRIN where it will be used in operational mode after the IPF upgrade to the last version of the processing chains (MERISv5.02)

6.2 Instrument Characterization

6.2.1 Instrument degradation

No new results to be shown for cycle #46. For the last updates, refer to Cyclic Report #45 that can be found on the above-mentioned MERIS website (see Section 6.1.3).

6.2.2 Diffuser ageing

No new results to be shown for cycle #46. For the last updates, refer to Cyclic Report #45 that can be found on the above-mentioned MERIS website.

6.2.3 Smile Effect

No new results to be shown for cycle #46. For the last updates, refer to Cyclic Report #23 that can be found on the above-mentioned MERIS website.



6.2.4 Spectral evolution from erbium measurements

No new results to be shown for cycle #46. Please refer to Cyclic Report #23 that can be found on the above-mentioned MERIS webpage.

7 DATA QUALITY CONTROL

7.1 MERIS products quality status

IPF version 4.10 did not have any impact on the MERIS products quality but on the Level 2 processing time; moreover some minor bugs related to the FR production and specifically to the water vapor product have been fixed (for details see Par. #6.2 of Cyclic Report #32).

7.2 Anomalies and Software Problem Reporting (SPR)

1. Blank records have been identified in some MERIS FR products rejected by visual inspections using the AMALFI system. An Anomaly Report has been opened and the problem is still under investigation.

8 FIRST 2003 MERIS ARCHIVE REPROCESSING

Information concerning the 1st reprocessing of the 2003 MERIS data archive done spring 2004 can be found on the MERIS website:

http://earth.esa.int/pcs/envisat/meris/documentation/First_2003_MERIS_Reprocessing.pdf

The document explains also how to get the reprocessed data.

9 SECOND 2005 MERIS ARCHIVE REPROCESSING

Following the recommendations of the Data Quality Working Group and the Science Advisory Group, improvements of the MERIS processing resulted in the version 7.4 of the off-line processor MEGS. It is currently being used for a complete re-processing of the MERIS Reduced Resolution data archive. The corresponding time period extends from June 2002 to June 2005. 2003 and 2004 data will be made available through the MERCI (MERIS Catalogue and Inventory service) by the end of year 2005. For further information see:

http://envisat.esa.int/services/catalogues.html

10 MERIS PROCESSOR EVOLUTION

A detailed description of the MERIS IPF evolution since March 2002 until present, in terms of data format changes and algorithm modifications, can be found on the MERIS website:

http://earth.esa.int/pcs/envisat/meris/documentation/MERIS_IPF_evolution.pdf.



11 VALIDATION ACTIVITIES AND RESULTS

No new results to be presented. Please refer to the previous cyclic reports for further information on the Validation activities.

12 WATER VAPOUR AND BROWSE MAPS

Water Vapour data, retrieved from MER_LRC_2P products, have been used to generate global coverage maps for each day of the cycle. Maps are available on the ESA website:

http://earth.esa.int/pcs/envisat/meris/maps/watervapour/

MERIS tracks for each day of the cycle have been plotted using Browse products. Maps are available on the ESA website:

http://earth.esa.int/pcs/envisat/meris/maps/browse/

13 HOW TO GET MERIS DATA

Information concerning the different ways to access the MERIS data can be found on the MERIS website:

http://earth.esa.int/pcs/envisat/meris/documentation/Access_to_MERIS_data.pdf

14 GENERAL INFORMATION

1. The European Space Agency has organized a joint MERIS and (A)ATSR workshop, held at ESRIN, Frascati, Italy, on 26-30 September 2005. All information about the objectives of the workshop as well as the participants presentations can be found on the ESA's official page:

http://envisat.esa.int/workshops/meris aatsr2005/

2. The European Space Agency has organized the second working meeting on MERIS and AATSR Calibration and Geophysical Validation (MAVT-2006) in ESRIN, Frascati, Italy, from 20 to 24 March 2006. All information about the objectives of the workshop as well as the participants presentations can be found on the ESA's official page:

http://www.congrex.nl/06M07