



The River Po flows into the Adriatic 19/08/2008
(MER_FR0 image courtesy of ESA)

MERIS 71ST CYCLIC REPORT

4th August - 8th September 2008

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Table of Contents

1. INTRODUCTION	1
1.1 ACRONYMS AND ABBREVIATIONS.....	2
2. SUMMARY	3
3. PROCESSOR VERSION AND PROCESSOR CONFIGURATION.....	4
3.1 MERIS PROCESSOR RELEASE.....	4
3.2 LEVEL 1/LEVEL 2 CONFIGURATION (SciHiO2).....	5
3.3 CONFIGURATION TABLE INTERFACE (CTI).....	5
3.4 LEVEL 1/ LEVEL 2 RR OR FR PRODUCTS	6
4. PDS STATUS.....	7
4.1 MERIS LEVEL 0 PRODUCTS AVAILABILITY	7
4.2 MERIS FR ACQUISITIONS.....	8
4.3 MER_CA__0P PRODUCTS	12
5. INSTRUMENT/DATA UNAVAILABILITY	13
5.1 INSTRUMENT UNAVAILABILITY	13
5.2 DATA UNAVAILABILITY	14
6. CALIBRATION AND INSTRUMENT CHARACTERIZATION.....	15
6.1 CALIBRATION	15
6.1.1 Radiometric Calibration	15
6.1.2 Spectral Calibration.....	15
6.1.3 Geolocation.....	15
6.1.4 Video Electronic Unit (VEU) Temperature Analysis	16
6.1.5 Vicarious calibration results.....	16
6.2 INSTRUMENT CHARACTERIZATION	18
6.2.1 Instrument degradation.....	18
6.2.2 Diffuser ageing.....	18
6.2.3 Smile Effect	18
6.2.4 Spectral evolution from erbium measurements	18
7. DATA QUALITY CONTROL	20
7.1 MERIS PRODUCTS QUALITY STATUS	20
7.2 ANOMALIES AND SOFTWARE PROBLEM REPORTING (SPR)	20
8. FIRST 2003 MERIS ARCHIVE REPROCESSING	20
9. SECOND 2005 MERIS ARCHIVE REPROCESSING	20
10. MERIS PROCESSOR EVOLUTION	20
11. VALIDATION ACTIVITIES AND RESULTS.....	21
12. WATER VAPOUR AND BROWSE MAPS.....	21
13. HOW TO GET MERIS DATA	21

14. GENERAL INFORMATION..... 21

Table of Figures

FIGURE 1 – MER_RR_OP GENERATED/MISSING BY THE GROUND SEGMENT DURING CYCLE #71..... 7

FIGURE 2 – MER_FR_OP GENERATED/MISSING BY THE GROUND SEGMENT DURING CYCLE #71 8

FIGURE 3 – MERIS FULL RESOLUTION LEVEL 0 ACQUISITIONS – PART #1 – 05/08/2008 – 09/08/2008 9

FIGURE 4 – MERIS FULL RESOLUTION LEVEL 0 ACQUISITIONS – PART #2 – 10/08/2008 – 14/08/2008 9

FIGURE 5 – MERIS FULL RESOLUTION LEVEL 0 ACQUISITIONS – PART #3 – 15/08/2008 – 19/08/2008 10

FIGURE 6 – MERIS FULL RESOLUTION LEVEL 0 ACQUISITIONS – PART #4 – 20/08/2008 – 24/08/2008 10

FIGURE 7 – MERIS FULL RESOLUTION LEVEL 0 ACQUISITIONS – PART #5 – 25/08/2008 – 29/08/2008 11

FIGURE 8 – MERIS FULL RESOLUTION LEVEL 0 ACQUISITIONS – PART #6 – 30/08/2008 – 03/09/2008 11

FIGURE 9 – MERIS FULL RESOLUTION LEVEL 0 ACQUISITIONS – PART #7 – 04/09/2008 – 08/09/2008 12

FIGURE 10 – VEU TEMPERATURE DURING CYCLE #71..... 16

FIGURE 11 – METRIC CALIBRATION SITE MAP 17

FIGURE 12 – EVOLUTION OF THE SPECTRAL CALIBRATION OF MERIS AROUND 408 NM (TOP) AND 520 NM (BOTTOM) WITH RESPECT TO ORBIT 650 19

Table of Tables

TABLE 1 – CYCLIC CHARACTERISTICS 3

TABLE 2 – MERIS PROCESSOR PARAMETERS – VERSION 5.05 4

TABLE 3 – AUXILIARY DATA FILES IN USE FOR CYCLE #71..... 4

TABLE 4 – MERIS LEVEL 1 AUXILIARY DATA FILES 5

TABLE 5 – MERIS LEVEL 1 AUXILIARY DATA FILES 5

TABLE 6 – REDUCED RESOLUTION LEVEL 0 PRODUCTS AVAILABILITY..... 7

TABLE 7 – FULL RESOLUTION LEVEL 0 PRODUCTS AVAILABILITY 8

TABLE 8 – METRIC TABLE FOR CYCLE #71 17

1. INTRODUCTION

The MERIS Cyclic Report is distributed by ESRIN- DPQC (Data Processing Quality Control) to keep the MERIS Community informed of any modification regarding the processor, updates of auxiliary products, behavioural anomalies of the instrument, data acquisition and processing, and 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 user community with useful information regarding the performance of the instrument, the data production chain and the results of calibration activities and validation campaigns. The Cyclic Report is produced at the end of each ENVISAT Cycle, which represents 501 orbits (approximately 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 Universität 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
OCM	Orbit Control Manoeuvre
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 #71 begins on the 4th of August 2008 and ends on the 8th of September 2008. Details about the Cycle can be found in Table 1 below:

Cycle number	#71
Start time	4 th of August 2008, 21:59:30
Stop time	8 th of September 2008, 21:59:29
Start orbit	33623
Stop orbit	34124

Table 1 – Cyclic Characteristics

3. PROCESSOR VERSION AND PROCESSOR CONFIGURATION

3.1 MERIS Processor Release

During Cycle #71, there were no changes to the MERIS processor configuration.

IPF Version	Validity	Reference Documents
5.05	11 th June 2008, 13:53 UTC Orbit # 32844 →	1. ENVISAT Product Specification [Iss_5_Rev_A] 2. MERIS Input/output Data Definition [Iss_7_Rev_3a] 3. MERIS Level 1b Detailed Processing Model [Iss_7_Rev_0a] 4. MERIS Level 2b Detailed Processing Model [Iss_7_Rev_2a]

Table 2 – MERIS Processor Parameters – version 5.05

- **Auxiliary data files (ADF)**

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

Table 3 – Auxiliary Data Files in use for Cycle #71

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

3.2 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 (Tables 4 & 5).

- **Level 1 ADF configuration:**

Product name	Start Validity
AUX_ATT_AXVIEC20020924_131534_20020703_120000_20781231_235959	03/07/2002
AUX_DEM_AXVIEC20031201_000000_20031201_000000_20200101_000000	01/12/2003
AUX_LSM_AXVIEC20080218_104630_20020101_000000_20200101_000000	18/02/2008
MER_CP1_AXVIEC20050607_065745_20020321_193100_20120321_193100	21/03/2002
MER_DRM_AXVIEC20020122_083343_20020101_000000_20200101_000000	01/01/2002
MER_INS_AXVIEC20050708_134312_20050101_000000_20150101_000000	01/01/2005
MER_RAC_AXVIEC20061009_084736_20061009_220000_20161009_220000	09/10/2006

Table 4 – MERIS Level 1 Auxiliary Data Files

- **Level 2 ADF configuration:**

Product name	Start Validity
MER_AER_AXVIEC20040407_174356_20020321_193100_20120321_193100	21/03/2002
MER_ATP_AXVIEC20050628_123340_20021224_121445_20121224_121445	24/12/2002
MER_CMP_AXVIEC20040407_180835_20021224_121445_20121224_121445	24/12/2002
MER_CP2_AXVIEC20050704_065814_20021224_121445_20121224_121445	24/12/2002
MER_LAP_AXVIEC20050628_124246_20020321_193100_20120321_193100	21/03/2002
MER_LVI_AXVIEC20050704_145357_20020321_193100_20120321_193100	21/03/2002
MER_OAP_AXVIEC20050704_145633_20020321_193100_20120321_193100	21/03/2002
MER_OC1_AXVIEC20050704_145802_20020321_193100_20120321_193100	21/03/2002
MER_OC2_AXVIEC20050628_123950_20020321_193100_20120321_193100	21/03/2002
MER_SCM_AXVIEC20030620_120000_20020321_193100_20110725_103844	21/03/2002
MER_WVP_AXVIEC20040407_181941_20020321_193100_20120321_193100	21/03/2002

Table 5 – MERIS Level 1 Auxiliary Data Files

3.3 Configuration Table Interface (CTI)

No new CTI was disseminated during Cycle #71.

3.4 Level 1/ Level 2 RR or FR products

No format changes or algorithm modifications regarding MERIS RR and FR products were implemented into the operational processor during Cycle #71.

REMINDER:

In the middle of Cycle #47, some format changes or algorithm modifications regarding MERIS RR and FR products were implemented during the operational processor upgrade from v4.10 to 5.02.

The data changes decided within the Data Quality Working Group are listed below:

- New Chlorophyll 1 polynomial characterisation from LOV (Laboratoire d'Océanologie de Villefranche – France)
- Chlorophyll 1 validity range set to [0.01,30.], no PCD raise when out of range
- Troposphere-free MAR99 replaces BLUE- ≤ 1.5 (from previous BOMEM runs)
- Gothic R Look Up Table from LOV (Laboratoire d'Océanologie de Villefranche – France)
- Chlorophyll 2 conversion factors from GKSS (revised with latest Neural Network delivery)
- Yellow Substance coding offset and scaling factor changes (linear to log scale, same range)
- Chlorophyll coding range changes ([-2,2] in log10 scale instead of [-3,3] previously)
- Whitecaps threshold set to 10 m.s⁻¹
- New Case 2 Neural Network from GKSS (with and without linear reflectances as input)
- White scatterer threshold set to 4.8
- MTCI threshold on B13-B8 difference set to 0.05, on B10-B8 to 1e-6 (numerical purpose only), ceiling for B8 set to 0.3, floor for B9 to 0.1
- Preliminary version of LARS Look Up Tables from Hygeos

For further details concerning the changes, please refer to the documentation available at:

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

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 paragraphs.

4.1 MERIS Level 0 products availability

Table 6 shows the statistics regarding the RR L0 availability (compared to the planned production). The format of Table 6 and Figure 1 reflects the aggregated data for the 5 weeks of the reporting period. Week 1 starts the 4th of August 2008, 21:59:30 (orbit 33623). Week 5 ends the 8th of September 2008, 21:59:29 (orbit 34124).

Week	Inventoried (%)	Missing (%)
1	98.48	1.52
2	98.42	1.58
3	98.58	1.42
4	98.58	1.42
5	98.34	1.66

Table 6 – Reduced Resolution Level 0 products availability

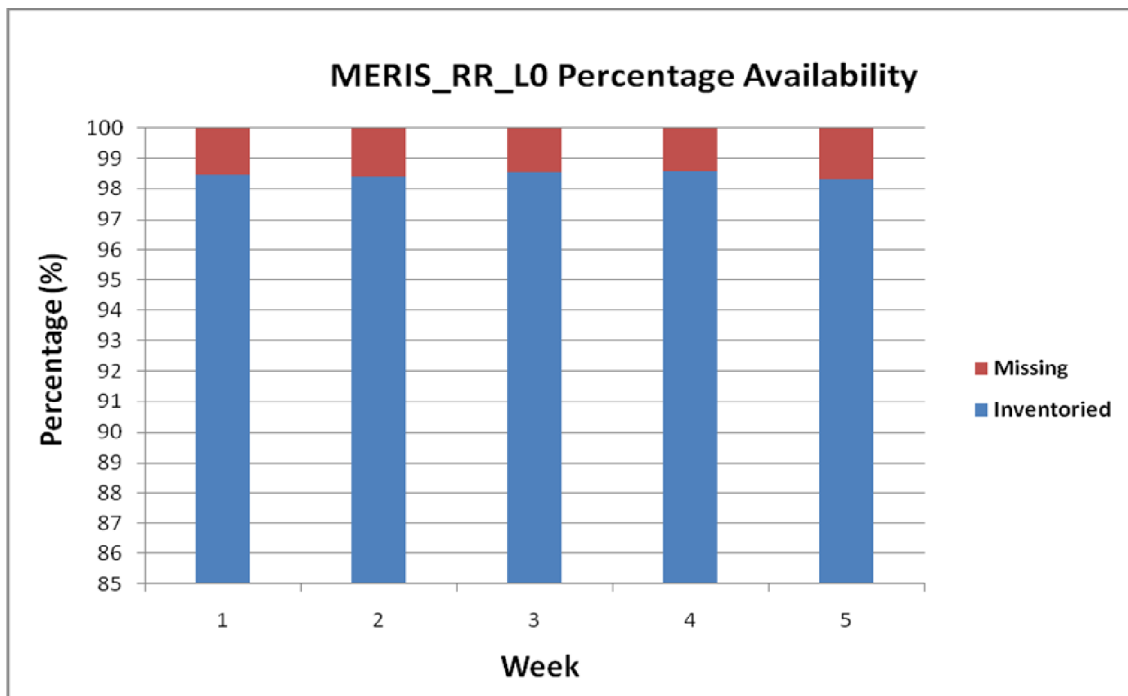


Figure 1 – MER_RR_0P generated/missing by the ground segment during Cycle #71

Table 7 shows the statistics regarding the FR L0 availability (compared to the planned production). The format of Table 6 and Figure 1 reflects the aggregated data for the 5 weeks of the reporting period. Week 1 starts the 4th of August 2008, 21:59:30 (orbit 33623). Week 5 ends the 8th of September 2008, 21:59:29 (orbit 34124).

Week	Inventoried (%)	Missing (%)
1	100	0
2	100	0
3	100	0
4	100	0
5	100	0

Table 7 – Full Resolution Level 0 products availability

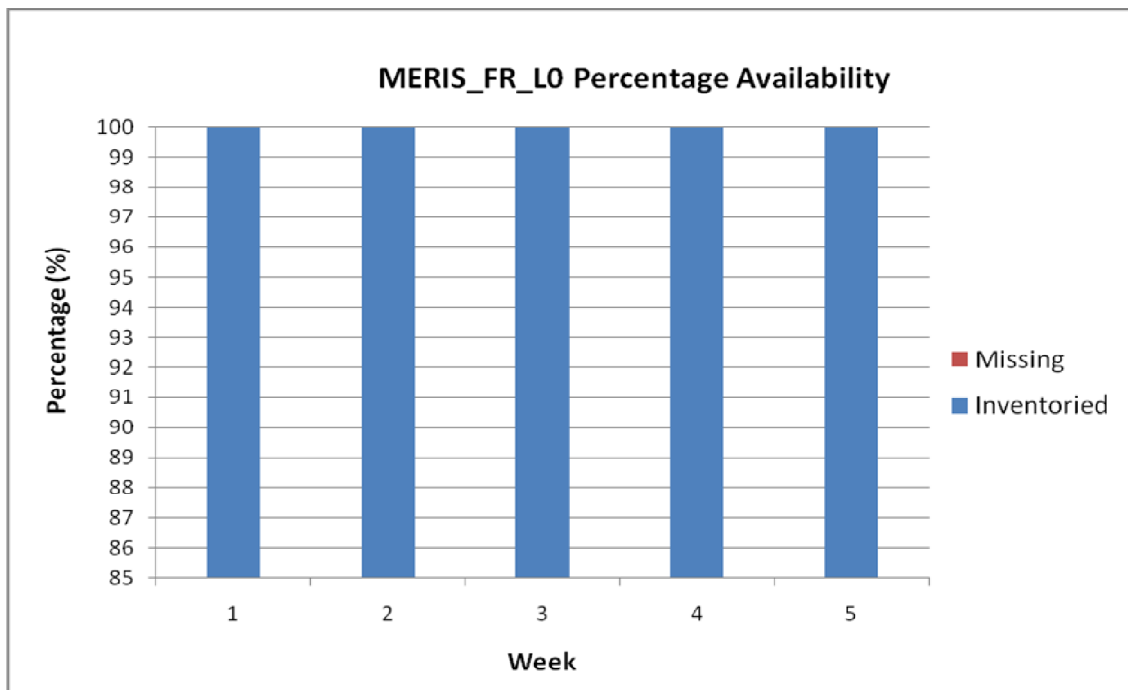


Figure 2 – MER_FR_0P generated/missing by the ground segment during Cycle #71

4.2 MERIS FR acquisitions

The Figures below show the MERIS Full Resolution global coverage for the reporting period. As specified for this type of MERIS products, all land and coastal areas are covered by MERIS FR acquisitions.

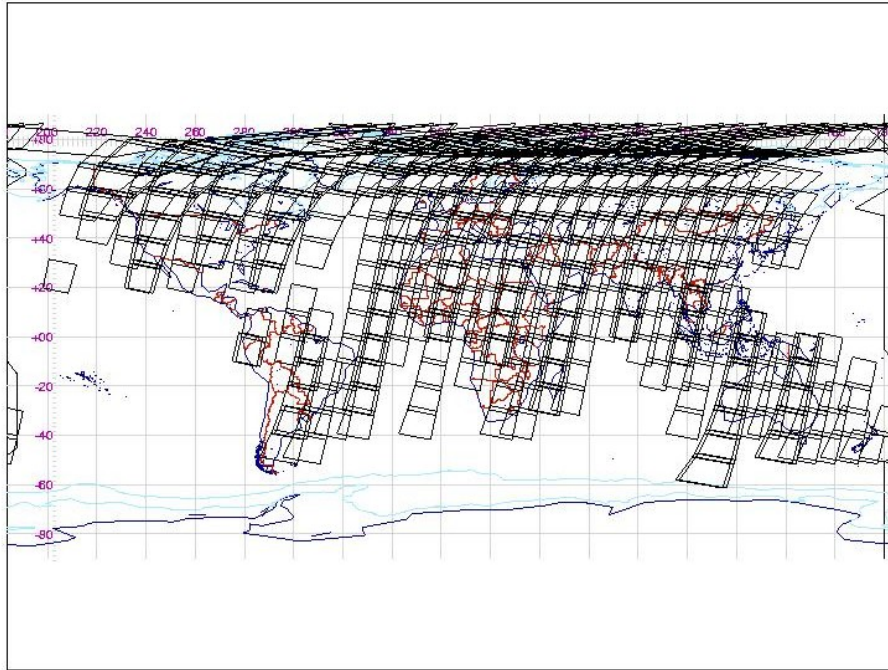


Figure 3 – MERIS FULL RESOLUTION LEVEL 0 ACQUISITIONS – PART #1 – 05/08/2008 – 09/08/2008

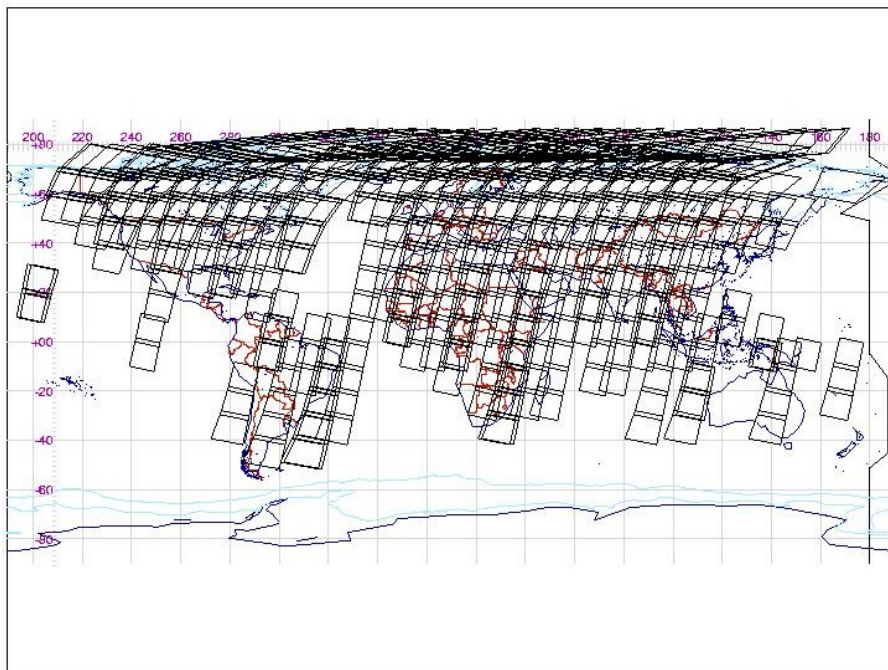


Figure 4 - MERIS FULL RESOLUTION LEVEL 0 ACQUISITIONS – PART #2 – 10/08/2008 – 14/08/2008

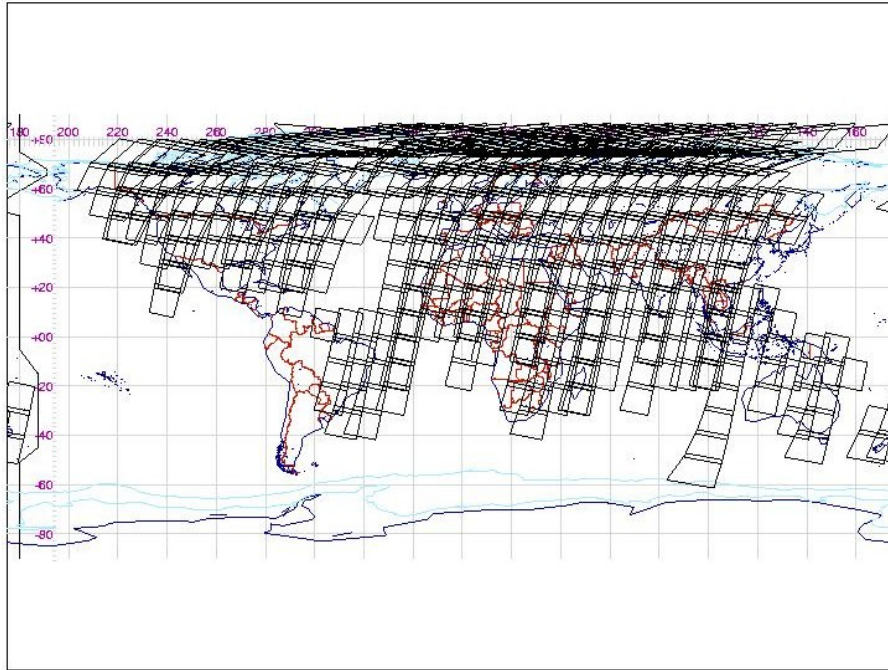


Figure 5 – MERIS FULL RESOLUTION LEVEL 0 ACQUISITIONS – PART #3 – 15/08/2008 – 19/08/2008

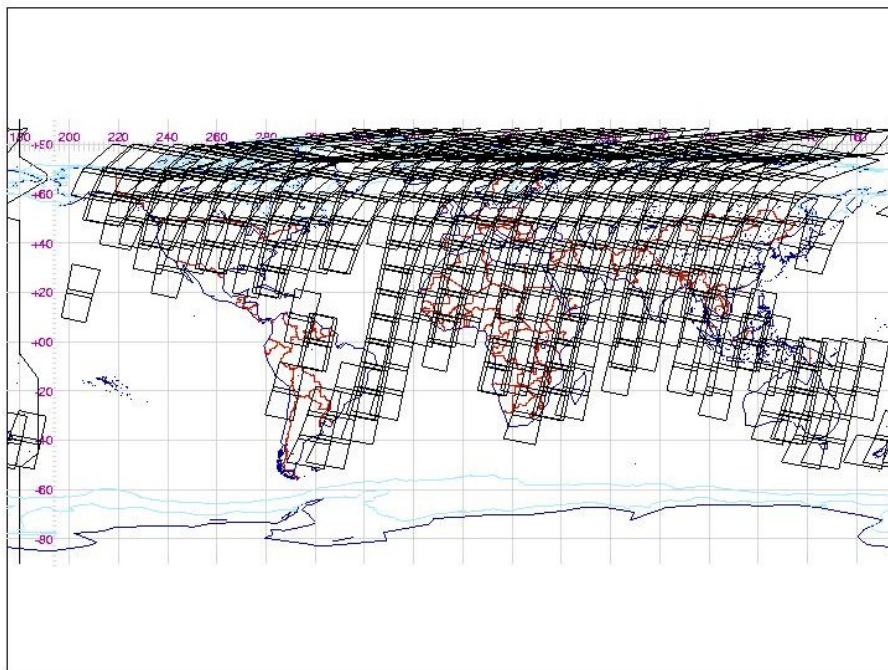


Figure 6 – MERIS FULL RESOLUTION LEVEL 0 ACQUISITIONS – PART #4 – 20/08/2008 – 24/08/2008

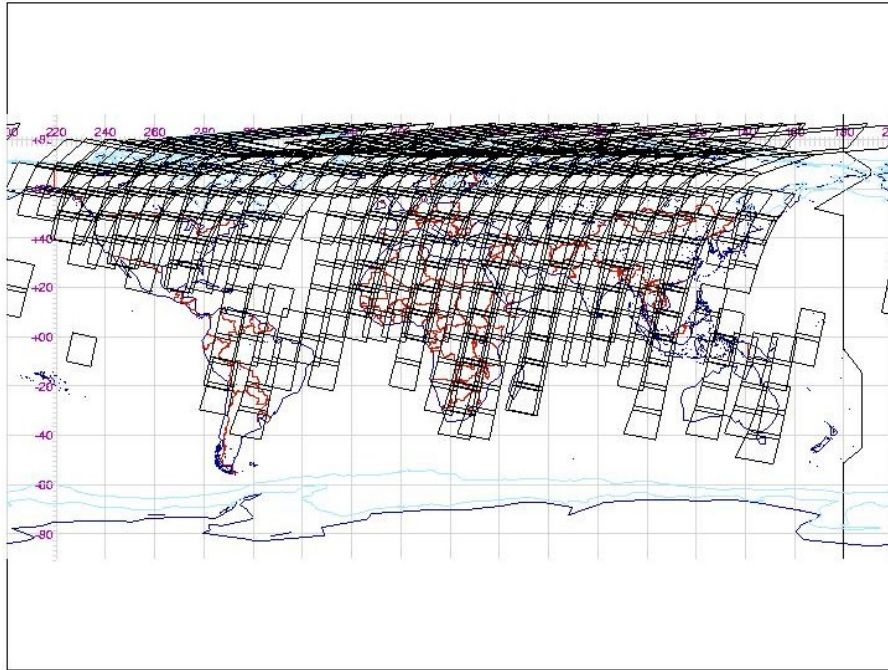


Figure 7 – MERIS FULL RESOLUTION LEVEL 0 ACQUISITIONS – PART #5 – 25/08/2008 – 29/08/2008

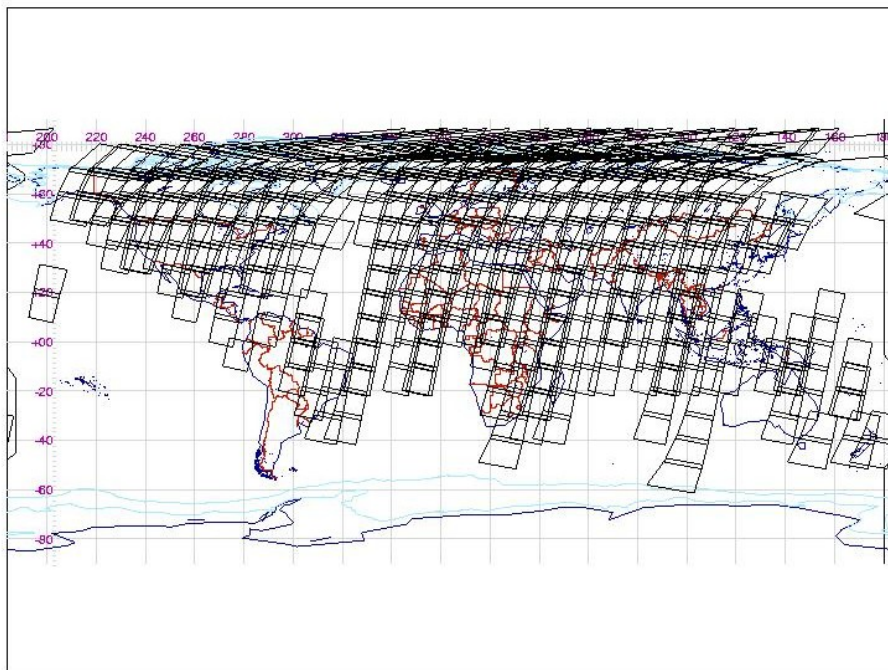


Figure 8 – MERIS FULL RESOLUTION LEVEL 0 ACQUISITIONS – PART #6 – 30/08/2008 – 03/09/2008

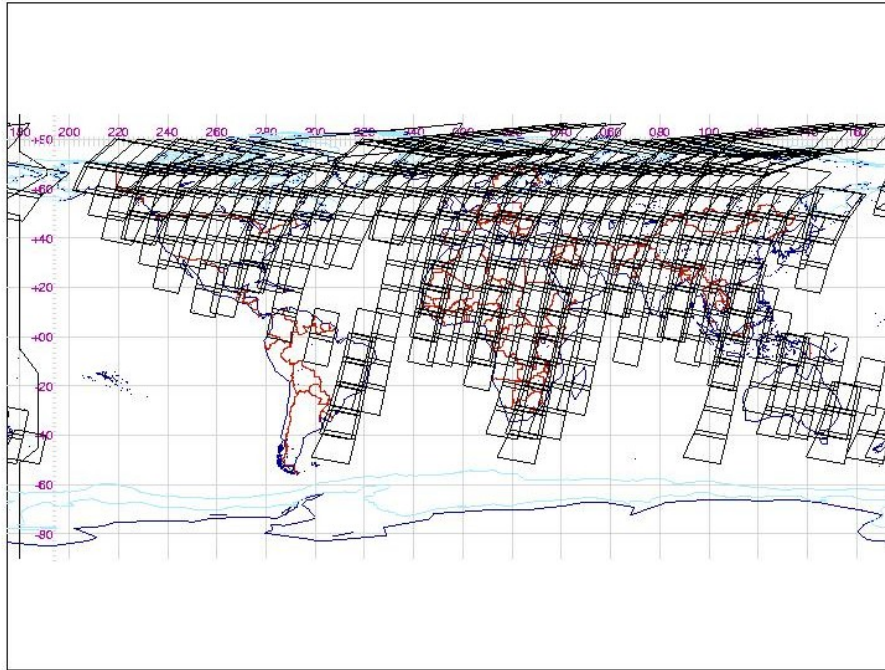


Figure 9 – MERIS FULL RESOLUTION LEVEL 0 ACQUISITIONS – PART #7 – 04/09/2008 – 08/09/2008

4.3 MER_CA__0P Products

During the Reporting Period, the following Calibration campaigns were completed successfully:

- A Diffuser Ageing Calibration was executed successfully in Orbits #33658-33659, followed by a WaVavelength Type_2 calibration executed in Orbits #33660 to #33663 (7th of August 2008). This calibration required MERIS in Stabilization Mode during Region 1.
- A Radiometric Calibration was executed successfully in orbit #33860 at DOY 234.14.09.29 (21st of August 2008).
- A Radiometric Calibration was executed successfully in orbit #34060 at DOY 248.13.30.49 (4th of September).

The corresponding available calibration file is as follows:

MPL_CAL_MEVRGT20021212_160527_00000000_00000005_20030203_141643_20781231_235959.N1

5. INSTRUMENT/DATA UNAVAILABILITY

5.1 Instrument Unavailability

Table 8 (below) sets out the total number of EDAC-corrected Single Event Upsets (SEU) for Cycle #71. The entries in **bold** are SEU outside the SAA:

	Date/Time	Lon.	Lat.
1	2008.217.01.30.58	21.1973° W	74.0509° S
2	2008.217.12.51.03	45.4328° W	17.4006° S
3	2008.217.12.52.02	46.2640° W	20.8903° S
4	2008.220.01.49.09	51.9751° W	31.7186° S
5	2008.220.05.14.32	106.0190° W	16.8964° S
6	2008.221.02.58.59	70.0388° W	28.7099° S
7	2008.221.09.04.25	10.9677° E	18.9419° S
8	2008.221.12.32.07	45.7226° W	41.8964° S
9	2008.221.14.08.11	66.2005° W	25.9262° S
10	2008.221.14.09.54	67.8204° W	31.9937° S
11	2008.222.00.49.50	39.6890° W	17.8465° S
12	2008.222.13.32.58	55.2326° W	13.1575° S
13	2008.222.13.37.12	58.8794° W	28.1704° S
14	2008.223.23.45.48	23.2065° W	20.6769° S
15	2008.224.01.26.02	48.0413° W	21.9725° S
16	2008.224.14.12.09	66.0821° W	19.6236° S
17	2008.226.11.27.10	24.1661° W	15.5484° S
18	2008.228.01.01.58	43.1000° W	15.5539° S
19	2008.228.12.05.39	34.4442° W	19.5327° S
20	2008.228.13.44.22	58.0377° W	12.8487° S
21	2008.231.01.46.34	135.9798° E	55.6192° N
22	2008.231.12.12.11	36.5554° W	22.3335° S
23	2008.233.00.03.20	27.7768° W	19.5960° S
24	2008.233.01.26.55	10.1083° W	77.3215° S
25	2008.233.01.38.21	47.5531° W	39.3119° S
26	2008.234.14.01.31	65.9240° W	32.9228° S
27	2008.235.02.20.49	61.8621° W	21.2831° S
28	2008.235.11.48.00	31.6154° W	28.3354° S
29	2008.235.13.26.43	55.0773° W	21.6716° S
30	2008.236.12.54.49	46.9316° W	20.6746° S
31	2008.237.02.57.33	70.6576° W	23.5081° S
32	2008.238.00.42.24	34.8409° W	33.8741° S
33	2008.238.00.46.05	38.2563° W	20.8475° S
34	2008.238.02.26.14	63.0183° W	22.4383° S

35	2008.239.00.14.33	30.4255° W	20.5458° S
36	2008.240.12.24.46	37.0660° W	5.8368° S
37	2008.240.12.29.34	41.0073° W	22.8898° S
38	2008.240.14.10.34	66.5109° W	24.3115° S
39	2008.241.11.54.29	30.2208° W	10.5851° S
40	2008.241.11.59.41	34.6769° W	29.0288° S
41	2008.243.01.28.59	48.8595° W	21.5823° S
42	2008.243.10.54.16	16.9089° W	21.3061° S
43	2008.244.02.39.11	67.1384° W	17.2574° S
44	2008.244.13.37.30	54.1898° W	1.2597° N
45	2008.245.13.15.58	54.9003° W	34.5711° S
46	2008.245.23.53.42	24.7797° W	23.0564° S
47	2008.246.03.09.37	69.7614° W	41.6791° S
48	2008.247.12.04.28	31.9080° W	5.2698° S
49	2008.247.15.28.46	84.6979° W	16.3034° S
50	2008.248.09.50.58	2.1506° E	0.7028° S
51	2008.249.05.12.48	110.9953° W	18.0583° N
52	2008.251.11.36.42	23.9630° W	1.4574° N
53	2008.251.11.39.27	26.1219° W	8.3321° S
54	2008.251.13.25.35	55.9525° W	27.9740° S

Table 8 – EDAC-corrected Single Event Upsets (SEU) for Cycle #71

5.1 Data Unavailability

The following data unavailability occurrences have been reported during Cycle #71.

- MERIS SDPSS unexpectedly switched into PAUSE mode:
 - on DOY 219 (August 6th, 2008) at 23.13.59z 1'48" has been lost
 - on DOY 222 (August 9th, 2008) at 15.15.51z 1'52" has been lost

System	Report ID	Start Time	End Time	Effect on Service	Planned	Description
MERIS	EN-UNA-2008/0129	DOY 219 23.13.59	DOY 219 23.14.36	1'48" lost	No	MERIS SDPSS unexpectedly switched to PAUSE mode. Ref.: AR ENV-911
MERIS	EN-UNA-2008/0130	DOY 222 15.15.51	DOY 222 15.17.43	1'52" lost	No	MERIS SDPSS unexpectedly switched to PAUSE mode. Ref.: AR ENV-911

6. CALIBRATION AND INSTRUMENT CHARACTERIZATION

6.1 Calibration

6.1.1 Radiometric Calibration

Cycle #71 potential radiometric calibrations are detailed in Subsection 4.3.

6.1.2 Spectral Calibration

Cycle #71 potential spectral calibrations (Wavelength Type 1 or 2) are detailed in Subsection 4.3.

6.1.3 Geolocation

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

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 in order to reduce the systematic offset and improve orientation parameters. Global absolute geolocation error (North and South hemispheres) for the three consecutive periods can be summarized as follows:

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

When correcting products from the systematic offset (centred results), for the 2004 period the RMS absolute geolocation error stays within the range of **166 ± 18** metres. The amount of products 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 Video Electronic Unit (VEU) Temperature Analysis

During one of the operation modes of MERIS (Stabilization mode), a thermal regulation of the VEU is performed. This is carried out in order to both stabilise its temperature and to reach optimum performance levels, thereby ensuring a smooth and safe transition towards Observation and Calibration modes.

During observation, in order to meet the image quality requirements, the VEU temperature has to remain in the operationally acceptable temperature range of $-10^{\circ}/+50^{\circ}$. Furthermore, to ensure optimum performance levels of the instrument, the variation in VEU maximum and minimum temperature values should not differ more or less than 10°C ($\pm 10^{\circ}\text{C}$) from the previous radiometric calibration.

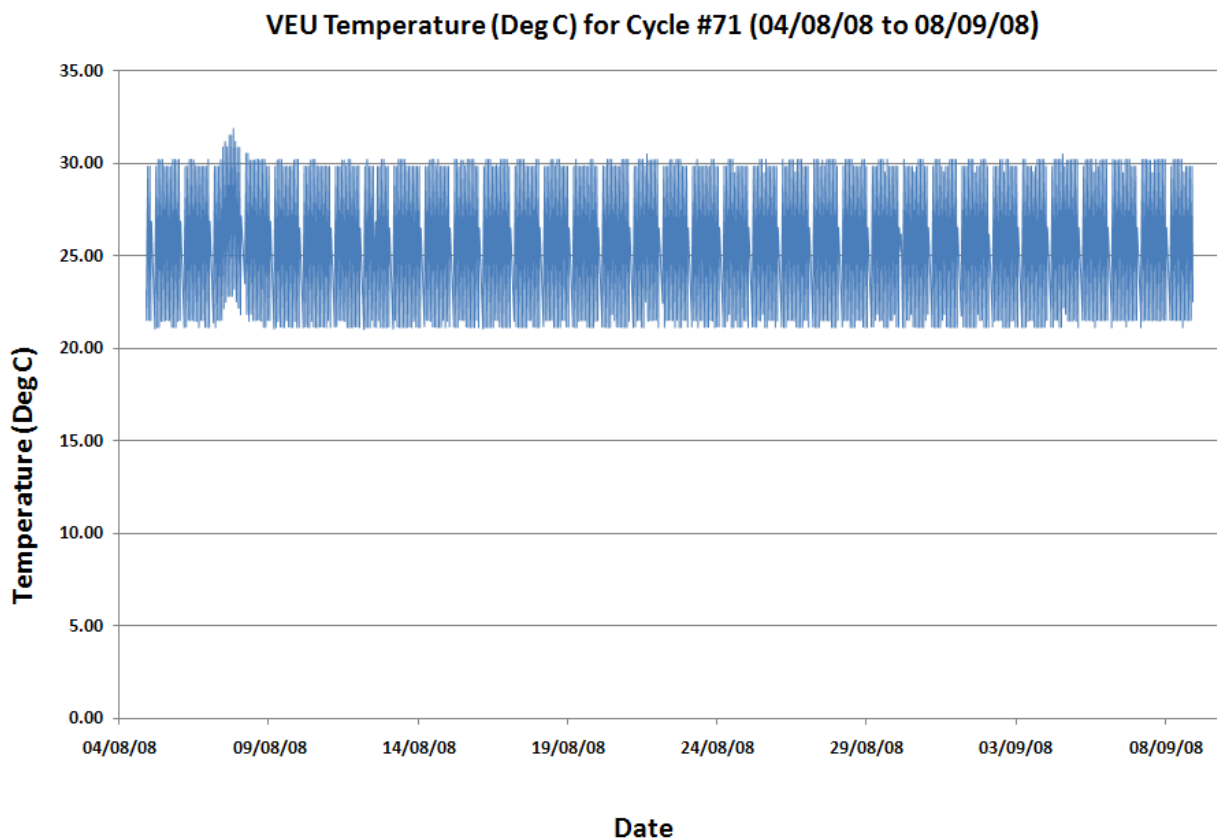


Figure 10 – VEU TEMPERATURE DURING CYCLE #71

6.1.5 Vicarious calibration results

For absolute calibration of MERIS by vicarious methods, METRIC2.0 tools are 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-dimensional 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 which stores all parameters necessary for data filtering (cloud and aerosol screening, distance from coast etc.). 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.

A map showing Calibration Sites used is given in Figure 11:

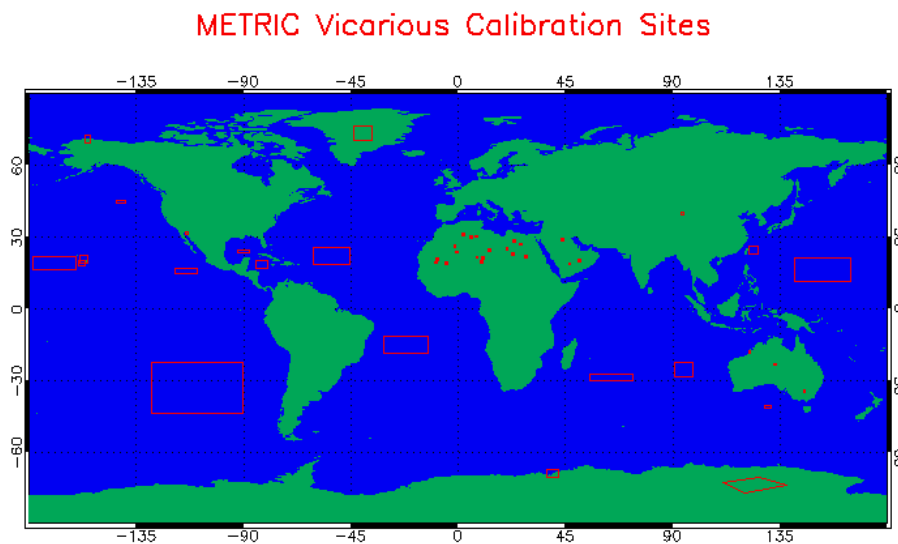


Figure 11 – METRIC CALIBRATION SITE MAP

During Cycle #71, Metric has generated the following results for specific sites:

Sites	#Number of METRIC output	Submitted child L1b
Desert	788	255
Glitter	221	213
Buoy	55	55
Snow	315	315
Rayleigh	240	147

Table 8 – METRIC Table for Cycle #71

Corresponding presentations can be found at:

http://envisat.esa.int/workshops/mavt_2006/MAVT-2006-0303_CTinel.pdf

http://envisat.esa.int/workshops/mavt_2006/MAVT-2006-0304_CTinel.pdf

Note: in the same Workshop, other results of vicarious calibration for MERIS, not based on METRIC extraction, were also presented.

6.2 Instrument Characterization

6.2.1 Instrument degradation

No new results to be shown for Cycle #71. For the most recent updates, refer to Cyclic Report #65 that can be found on the above-mentioned MERIS website.

6.2.2 Diffuser ageing

No new results to be shown for Cycle #71. For the most recent updates, refer to Cyclic Report #65 that can be found on the above-mentioned MERIS website.

6.2.3 Smile Effect

No new results to be shown for Cycle #71. For the most recent updates, refer to Cyclic Report #23 that can be found on the above-mentioned MERIS website.

6.2.4 Spectral evolution from erbium measurements

Analysis of the complete set of spectral calibration data from the Erbium doped diffuser confirms:

1. Stability of the absolute wavelength for cameras 1, 3 and 5.
2. Slight increase over time of the wavelength observed by a given CCD row for camera 2 and 4 (about 0.15 nm for camera 2 and 0.20 for camera 4). The curve trend seems however to go towards stabilisation.

Figure 12 (below) shows the evolution of the spectral calibration of MERIS around 408 nm and 520 nm with respect to orbit 650.

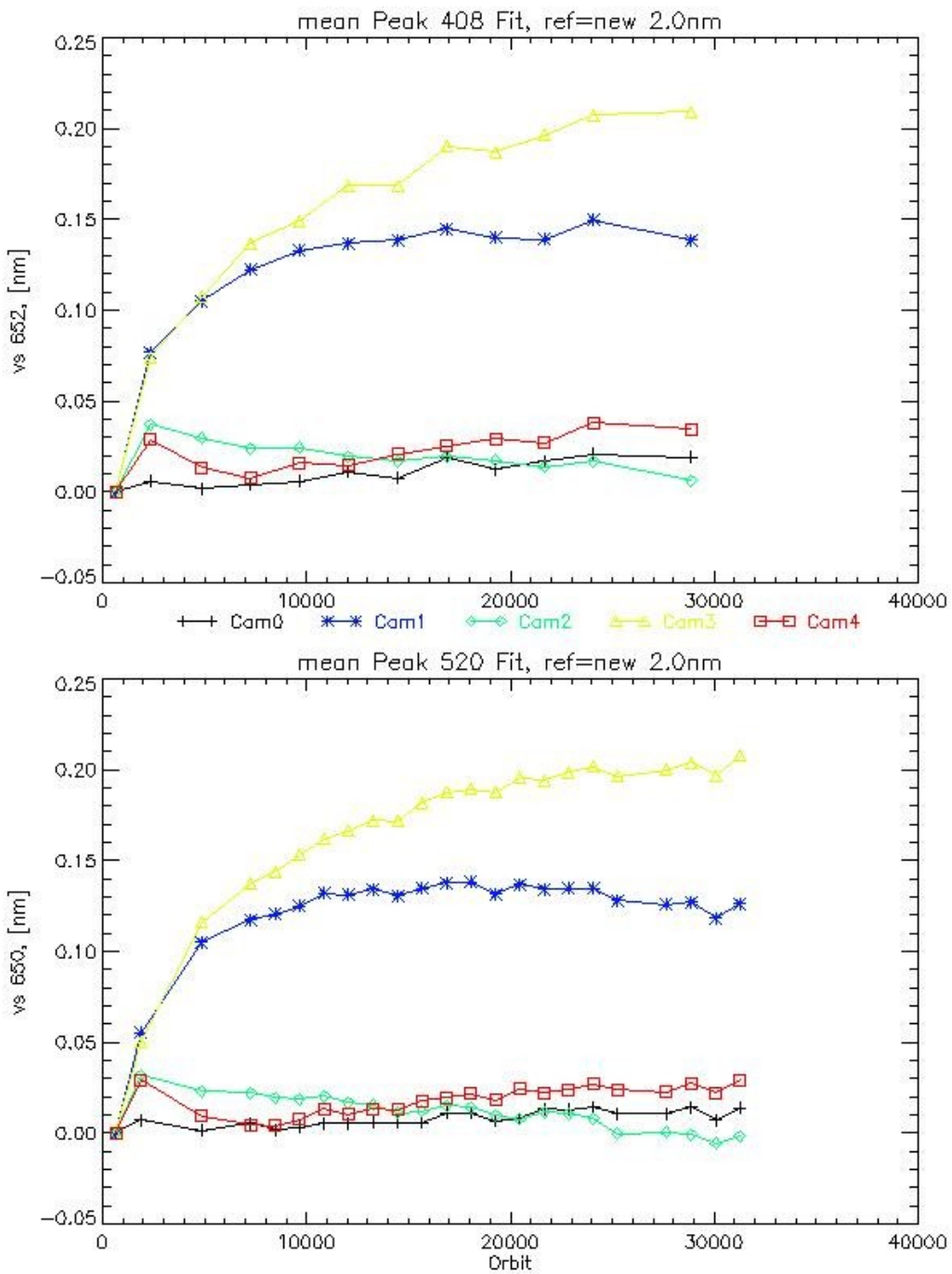


Figure 12 – Evolution of the spectral calibration of MERIS around 408 nm (top) and 520 nm (bottom) with respect to orbit 650

7. DATA QUALITY CONTROL

7.1 MERIS products quality status

IPF version 5.02 did not have any impact on the MERIS products quality; an increase of the Level 2 processing time has been reported – it is linked to the increase of the number of pixels taken into account for the retrieval of aerosols over land, and the more detailed aerosols Look Up Table.

7.2 Anomalies and Software Problem Reporting (SPR)

Blank records have been identified in some MERIS products rejected by visual inspections using the AMALFI system. These black lines crossing the track are a nominal behaviour of the processor, which replaces missing or corrupted Instrument Source Packets (ISPs) with blank data to preserve the geographical consistency of the scene.

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 access the reprocessed data.

9. SECOND 2005 MERIS ARCHIVE REPROCESSING

Following the recommendations of the Data Quality Working Group and the Science Advisory Group, improvements to MERIS processing resulted in version 7.4 of the off-line processor MEGS. It is currently being used for a complete reprocessing 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

The presentations given at the MAVT-2006 yield at ESRIN premises, Frascati, Italy, from 20 to 24 March 2006 are now available at the following address:

http://envisat.esa.int/workshops/mavt_2006/

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 organised 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 ESA's official page:

http://envisat.esa.int/workshops/meris_aatsr2005/

2. The European Space Agency organised 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 ESA's official pages:

<http://www.congex.nl/06M07>