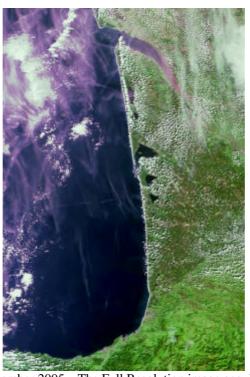


MERIS CYCLIC REPORT 41ST $19^{\text{TH}} \text{ SEPTEMBER} - 24^{\text{TH}} \text{ OCTOBER 2005}$



26 September 2005 – The Full Resolution image acquired by MERIS shows the West France Landes coastline.

prepared by/préparé par MERIS DPQC Team

reference/réference

issue/édition 1 revision/révision 0

date of issue/date d'édition December 2005

status/état

Document type/type de

MERIS Cyclic Report

document

Distribution/distribution



APPROVAL

Title titre	MERIS Cyclic Report – Cycle 41 th	issue issue	revision revision
author auteur	G.Obolensky	date date	
approved by approuvé by	P. Goryl	date date	

CHANGE LOG

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

CHANGE RECORD

Issue: 1 Revision: 0

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



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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

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 #41 starts on the 19th of September 2005 and stops on the 24th of October 2005.

- No auxiliary files were disseminated during the cycle.
- Three Radiometric Gain Calibrations (RC) have been successfully executed during the reporting period.
- Eight 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	41
Start time 19 September 2005, 21:5	
Stop time	24 October 2005, 21:59:29
Start orbit	18592
Stop orbit	19092

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_010914	4 PO-TN-MEL-Gs-0003
3. MERIS Level 1b Detailed Processing Model	Iss_6_Rev_1a_010914	4 PO-TN-MEL-GS-0002
4. MERIS Level 2b Detailed Processing Model	Iss_6_Rev_1a_010914	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

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 #41.



• Level 1 ADF configuration:

Product name	Start Validity
MER_INS_AXVIEC20030620_120000_20020321_193100_20121008_190821	21/03/02
MER_CP1_AXVIEC20030620_120000_20020429_040000_20120920_173421	29/04/02
MER_RAC_AXVIEC20030620_120000_20021224_121445_20121224_121445	24/12/03
MER_DRM_AXVIEC20020122_083343_20020101_000000_20200101_000000	01/03/02
AUX_DEM_AXVIEC20020123_121901_20020101_000000_20200101_000000	01/03/02
AUX_LSM_AXVIEC20020123_141228_20020101_000000_20200101_000000	01/03/02
AUX_ATT_AXVIEC20020924_131534_20020703_120000_20781231_235959	03/07/02

• Level 2 ADF configuration:

Product name	Start Validity
MER_AER_AXVIEC20030620_120000_20020321_193100_20200101_000000	21/03/02
MER_ATP_AXVIEC20030620_120000_20021224_121445_20121224_121445	24/12/02
MER_CMP_AXVIEC20030620_120000_20021224_121445_20120321_193100	24/12/02
MER_CP2_AXVIEC20031120_104149_20021224_121445_20121224_121445	24/12/02
MER_LAP_AXVIEC20030715_151450_20020321_193100_20120321_193100	21/03/02
MER_LVI_AXVIEC20030620_120000_20020321_193100_20130224_164916	21/03/02
MER_OAP_AXVIEC20030620_120001_20020321_193100_20120321_193100	21/03/02
MER_OC1_AXVIEC20030620_120000_20020321_193100_20120321_193100	21/03/02
MER_OC2_AXVIEC20030620_120000_20020321_193100_20120624_174339	21/03/02
MER_WVP_AXVIEC20030620_120000_20020321_193100_20120321_193100	21/03/02

3.4 Configuration Table Interface (CTI)

No new CTI disseminated during cycle #41.

3.5 Level 1/ Level 2 RR or FR products

During cycle #41 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_RR	0P %
	Inventoried	Missing
From 19/09 to 26/09	98.08	1.92
From 26/09 to 03/10	99.46	0.54
From 03/10 to 10/10	99.92	0.08
From 10/10 to 17/10	99.37	0.63
From 17/10 to 24/10	97.07	2.93

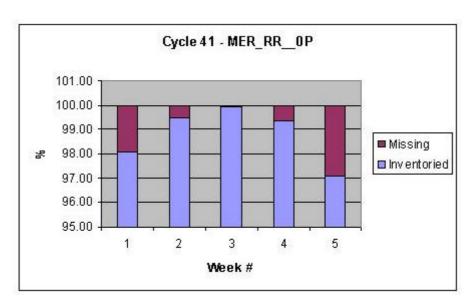


Figure 1 - MER_RR__0P generated/missing by the ground segment during cycle #41

The number of RR Level 0 products acquired during the cycle is about 99.02 % 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 19/09 to 26/09	98.08	1.92
From 26/09 to 03/10	99.28	0.72
From 03/10 to 10/10	98.70	1.30
From 10/10 to 17/10	99.45	0.55
From 17/10 to 24/10	98.86	1.14

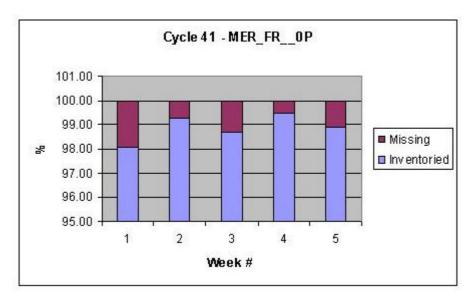


Figure 2 - MER_FR__0P generated/missing by the ground segment during cycle #41

The number of FR Level 0 products generated during the cycle is about 99.34 % of the planned ones.

4.2 MERIS FR acquisitions

Due to Technical issues, no information on the Full Resolution Level 0 spatial and temporal distribution is available for the reporting period.

4.3 MER_CA_0P Products

During Cycle #41 one type of routine calibrations has been planned. Three RGC radiometric gain (one orbit each) were successfully executed on the 24th of September, 08th and 22nd of October, in orbits respectively 18660, 18860, 19060.

The list of calibration files produced is reported below:

RGC

RGC



MER_CA__0PNPDK20051008_163407_000001792041_00269_18860_0029.N1 MER_CA__0PNPDK20051022_155533_000001792041_00469_19060_0034.N1

5 INSTRUMENT/DATA UNAVAILABILITY

5.1 Instrument Unavailability

No instrument unavailability was communicated by ESOC during cycle #41. In the reporting period, 46 EDAC-corrected SEU occurred.

5.2 Data Unavailability

Eight data unavailability to be communicated for cycle #41.

- On 24th of September 2005, the second processor of MERIS (SDPSS) spuriously switched to PAUSE mode due to a SEU starting from 01.30.05z until 02.06.21z, end of the normal acquisition in DIR&AVG mode. Approximately 36 minutes of data have been lost during this unexpected event.
- On 25th of September 2005, the second processor of MERIS (SDPSS) spuriously switched to PAUSE mode due to a SEU starting from 09.18.05z until 09.57.49z, end of the normal acquisition in DIR&AVG mode. Approximately 40 minutes of data have been lost during this unexpected event.
- On 01st of October 2005, the second processor of MERIS (SDPSS) spuriously switched to PAUSE mode due to a SEU starting from 18.13.01z until 18.33.17z, end of the normal acquisition in DIR&AVG mode. Approximately 20 minutes of data have been lost during this unexpected event.
- On 01st of October 2005, the second processor of MERIS (SDPSS) spuriously switched to PAUSE mode due to a SEU starting from 20.13.01z until 20.13.49z, end of the normal acquisition in DIR&AVG mode. Approximately 48 seconds of data have been lost during this unexpected event.
- On 03rd of October 2005, the second processor of MERIS (SDPSS) spuriously switched to PAUSE mode due to a SEU starting from 03.48.45z until 04.05.17z, end of the normal acquisition in DIR&AVG mode. Approximately 17 minutes of data have been lost during this unexpected event.
- On 08th of October 2005, the second processor of MERIS (SDPSS) spuriously switched to PAUSE mode due to a SEU starting from 01.24.45z until 01.27.41z, end of the normal acquisition in DIR&AVG mode. Approximately 3 minutes of data have been lost during this unexpected event.
- On 17th of October 2005, the second processor of MERIS (SDPSS) spuriously switched to PAUSE mode due to a SEU starting from 13.02.37z until 13.30.21z, end of the normal acquisition in DIR&AVG mode. Approximately 28 minutes of data have been lost during this unexpected event.



• On 24th of October 2005, the second processor of MERIS (SDPSS) spuriously switched to PAUSE mode due to a SEU starting from 01.14.53z until 01.26.53z, end of the normal acquisition in DIR&AVG mode. Approximately 12 minutes of data have been lost during this unexpected event.

6 CALIBRATION AND INSTRUMENT CHARACTERIZATION

6.1 Calibration

6.1.1 Radiometric calibration

During Cycle #41 three routine calibrations (RGC type - one orbit each), were successfully executed on the 24^{th} of September, 08^{th} and 22^{nd} of October. For more details see par. 4.2.

6.1.2 Spectral calibration

No Erbium calibration was performed during Cycle #41.

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.
- 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/

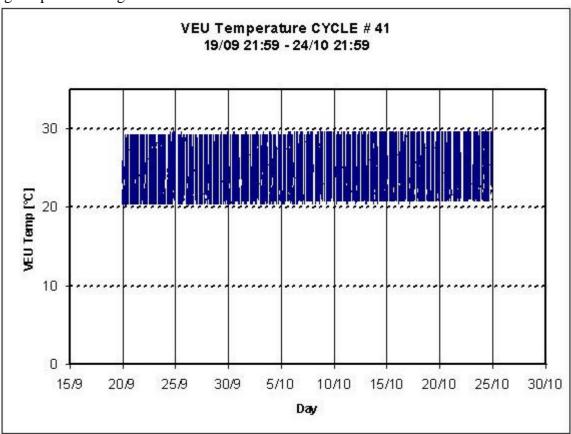


6.1.4 VEU Temperature Analysis

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 #41 the VEU temperature does not show any anomalous behavior, being into the nominal operating temperature range.



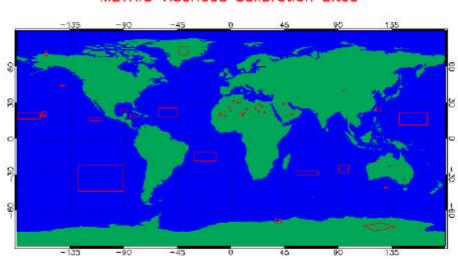
6.1.5 Vicarious calibration results

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:



METRIC Vicarious Calibration Sites

For a comparison between MERIS data and in situ measurements of natural targets, performed by CNES, refer to Cyclic Report #17. The report can be found on the ESA website: http://earth.esa.int/pcs/envisat/meris/reports/cyclic/

6.2 Instrument Characterization

6.2.1 Instrument degradation

No new results to be shown for cycle #41. For the last updates, refer to Cyclic Report #26 that can be found on the MERIS website:

http://earth.esa.int/pcs/envisat/meris/reports/cyclic/



6.2.2 Diffuser ageing

No new results to be shown for cycle #41. For the last updates, refer to Cyclic Report #39 that can be found on the above-mentioned MERIS website.

6.2.3 Smile Effect

No new results to be shown for cycle #41. 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 #41. 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

In the following paragraphs are presented the discussions and the recommendations resulting from the Quality Working Group (QWG) meeting held on June 2006 in LOV (Laboratoire d'Oceanologie de Villefranche) premises, Villefranche-sur-mer, France.

The main goal of the meeting was to review the modifications implemented in the last version of the MERIS prototype (MEGS v7.4) – currently in use for the 2005 Reprocessing of MERIS data (See section 9 for more details)- and to discuss of new improvements in the processing parameters if needed.

11.1 Level 1b configuration for 2005 reprocessing

Three auxiliary data files configurations are in use for the 2005 reprocessing, depending on data acquisition time:

- The SciHi version for data acquired between 05/2002 and 12/2002.
- The SciHiO2 version for data acquired between 01/2003 and 12/2004 included. The modification concerns the band 11 (761 nm O2 absorption band) that has been shifted by 1 pixel toward the NIR to reduce sensitivity to the Smile Effect (variations of the spectral band's central wavelengths within the MERIS cameras field of view).
- The SciHiO2 OCL OFF version for data acquired since 12/2004. In this configuration, the Offset Control Loop (automatic on-board dark current correction) has been switched off to avoid small oscillations.

The common features of the new configuration are as follows

- New SRDF (stray light correction kernels)
- New degradation model (accounting for diffuser ageing)



- Latest spectral model used(2004, parabolic fit from Fraunhoffer spectral calibrations)
- Gain & Response Look Up Tables where updated from 3 calibration campaigns at 27.5 deg Sun Azimuth Angle.
- Dark Current Look Up Tables updated from all OCL on calibrations

11.2 Level 2 configuration for 2005 reprocessing

The changes in the L2 configuration with respect to 2004 reprocessing are presented below:

- AER (Aerosol climatology): no changes
- ATP (Atmosphere parameter): minor changes to surface pressure retrieval parameters
- CMP (Cloud Measurements Parameters): no changes
- CP2 (Processing Level-2 Control Parameters): wavelengths and E₀ from 2004 model, smile correction switched on for MTCI bands, Pressure range in [450,1100], Chlorophyll 1 product coding range in [-2, 2] log10 scale instead of [-3,3], modification of the criteria of identification of absorbing aerosols over water.
- LAP (Land Aerosols parameters): latest LARS (Land Aerosol Remote Sensing) LUTs.
- LVI (Land Vegetation Index Parameters): upgraded MTCI pixel filtering parameters
- OAP (Ocean Aerosols Parameters): the blue aerosol with a=1.5 removed, Maritime 99%RH-with aerosol-free troposphere re-introduced. The former was justified as its range of angstrom exponent is already covered by another aerosol model while the latter extends the range of spectral dependency..
- OC1 (Ocean 1 Parameters): new Chlorophyll1 algorithm data & validity range, white caps threshold decreased to 10 ms⁻¹ (previously 14), Chlorophyll 1 product validity range set to [0.01,30] mg.m⁻³.
- OC2 (Ocean 2 Parameters): implementation of a new Neural Network model, and updated Chlorophyll 2 conversion factors
- WVP (Water Vapor Parameters): no changes

For more detailed description please follow the link below: http://earth.esa.int/pcs/envisat/meris/documentation/MERISRRsecondreprocessing-V2.pdf

11.3 Level 3 products

Simultaneously to the 2005 second reprocessing of the MERIS data archive, new Level 3 products will be generated as listed below:

- Algal 1 product (Chlorophyll in Case 1 waters)
- Aerosol optical thickness (at 865nm over Oceans)
- Aerosol Angstrom coefficient (at 865nm)
- Total water vapor column over clear sky (wvcs)



• Fully normalised water leaving radiances (including bi-directionnality correction) at 412, 443, 490, 510, 560 nm

These products will be available by the end of Year 2005. Please refer to the link given in the section 13 for further information.

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. Next Data Quality Working Group (QWG) meeting will take place on 15/16 November in the ACRI-ST premises, Sophia Antipolis, France.
- 2. The European Space Agency has 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 the ESA's official page:

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