

MERIS FR – QUALITY ASSESSMENT

Technical Note

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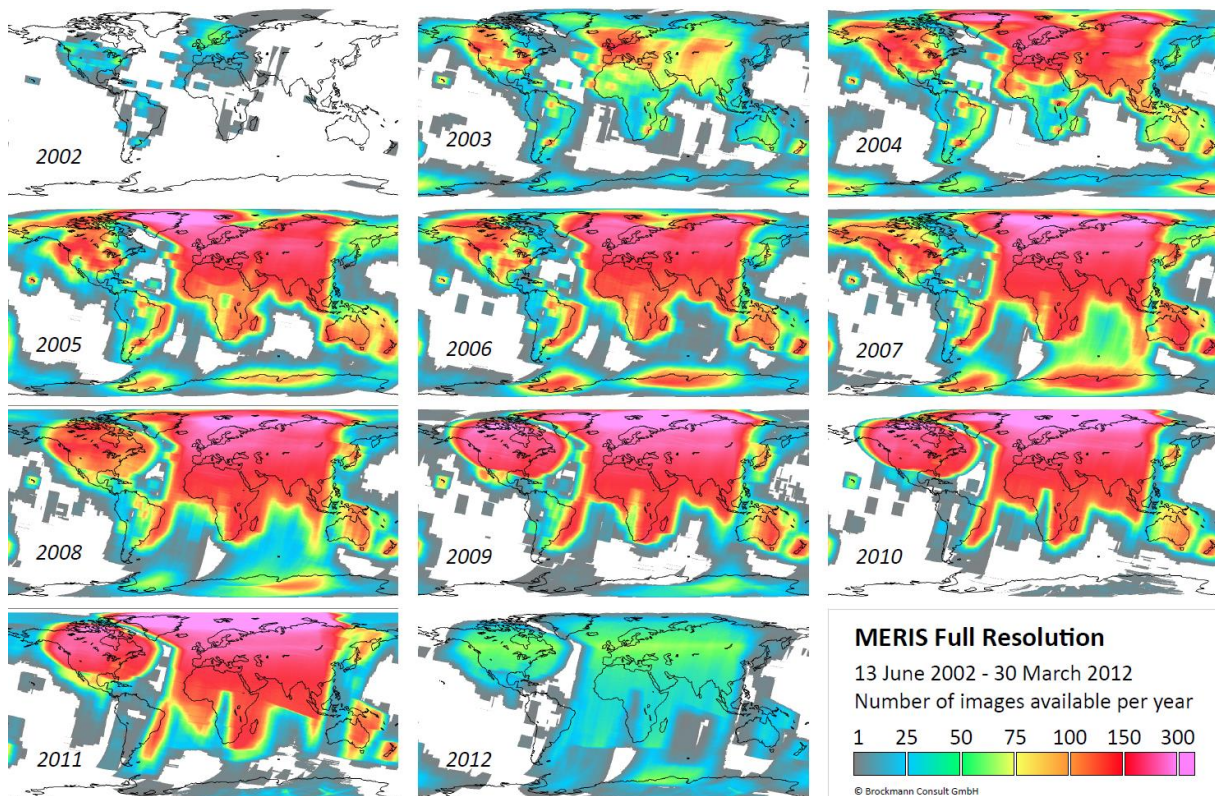
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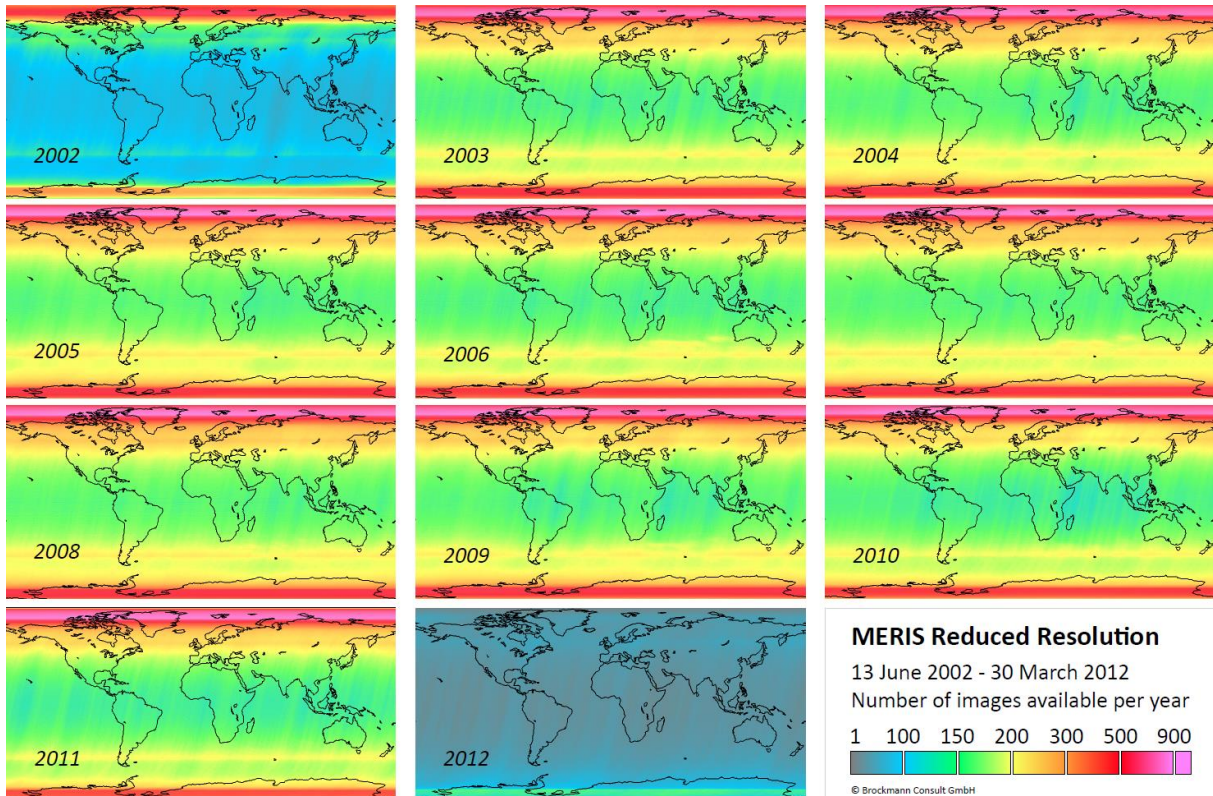
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1 Introduction

Since February 13th 2015, the bulk processed MERIS FRS L2 dataset is available for users on DissHarm (via MERCI/HTTP and FTP) together with previously released FRS L1b data. The complete MERIS Full Resolution Full Swath L1b and L2 data archive of the Envisat mission spanning from May 17th 2002 through April 8th 2012 is hence available directly online.

The following two images show the yearly coverage of MERIS FR and RR.





The key achievements and activities regarding the quality control of the input products comprise

- Development of QC tools for investigating the MERIS FRS L1b full archive automatically
- Defining new Quality tests for MERCI
- Visual checking the products that have been identified as suspect
- Compiling the results of different tests in a data base

This document summarizes the methods and results of the QA on L0, L1b and L2 of MERIS FR v2013.

2 Level 0 Analyse

2.1 Data source

Filename: E-PAC MERIS L0 - NAS inventory.xls

2.2 Summary

2.2.1 E-PAC MERIS (included in datasource)

Nominal	93246
Quarantine	2203
Total	95449

2.2.2 Current analysis (BC)

Missing orbits :	7269
Short:	1135
Exact Duplicates:	178
Totally included:	5167
Overlapping:	9782
Sum:	23531

2.3 Relative orbits

2.3.1 Frequency distribution

Relative orbits shall fulfill the following constraint:

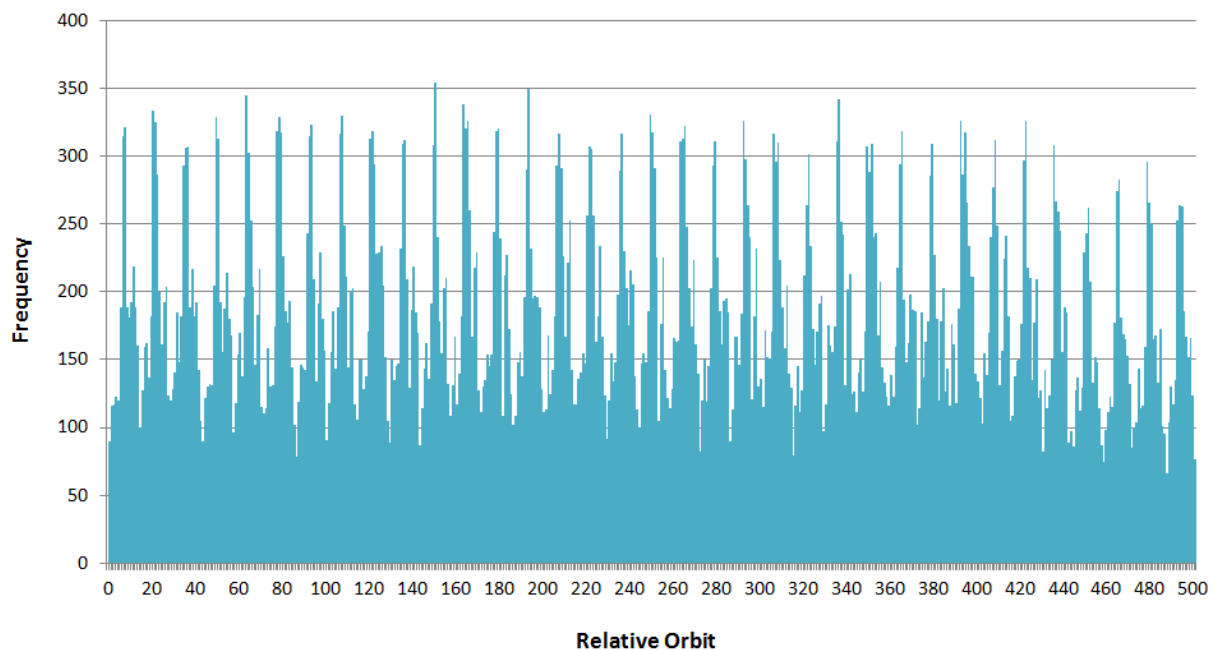
$$1 \leq \text{rel_orbit} \leq 501$$

Highest values exceeded 501:

original_name	abs_orbit	rel_orbit
MER_FR_0PNPDE20050711_204429_000002502038_00501_17589_0558.N1	17589	00501
MER_FR_0PNPDE20041108_210128_000001822031_00501_14082_3125.N1	14082	00501
MER_FR_0PNPDE20030816_095157_000002642018_00566_07634_0923.N1	7634	00566
MER_FR_0PNPDE20030816_095157_000002642018_00566_07634_0924.N1	7634	00566
MER_FR_0PNPDE20030818_102745_000006012018_00595_07663_0856.N1	7663	00595
MER_FR_0PNPDE20030818_102745_000004342018_00595_07663_0857.N1	7663	00595
MER_FR_0PNPDK20030818_102732_000001562018_00595_07663_0030.N1	7663	00595
MER_FR_0PNPDK20030820_060713_000006792018_00621_07689_0047.N1	7689	00621
MER_FR_0PNPDK20030820_080044_00000202018_00622_07690_0048.N1	7690	00622
MER_FR_0PNPDK20030124_133819_000003632012_00654_04716_0393.N1	4716	00654

Frequency distribution:

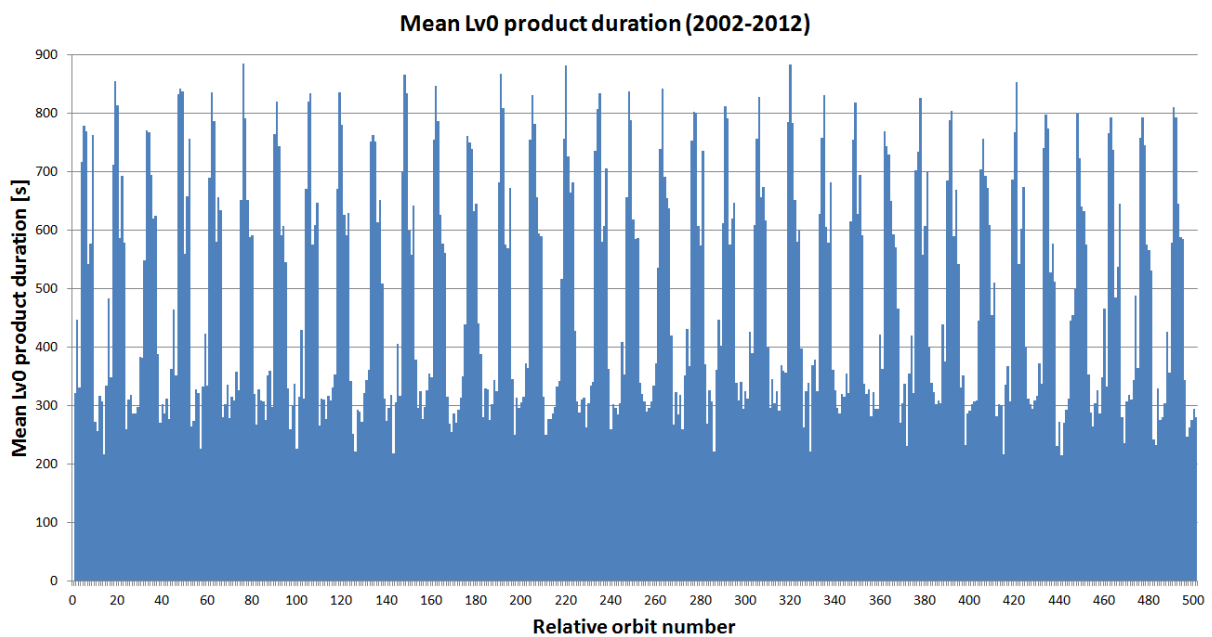
Frequency distribution of FR Lv0 relative orbits (2002-2012)



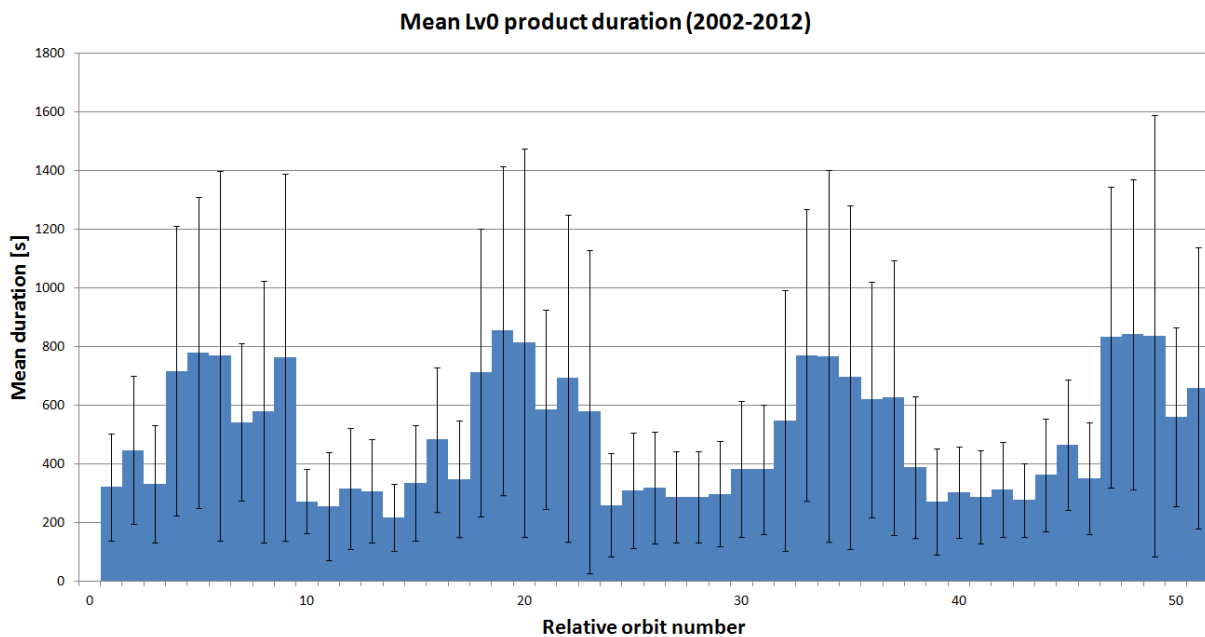
2.3.2 Mean duration

Constraints:

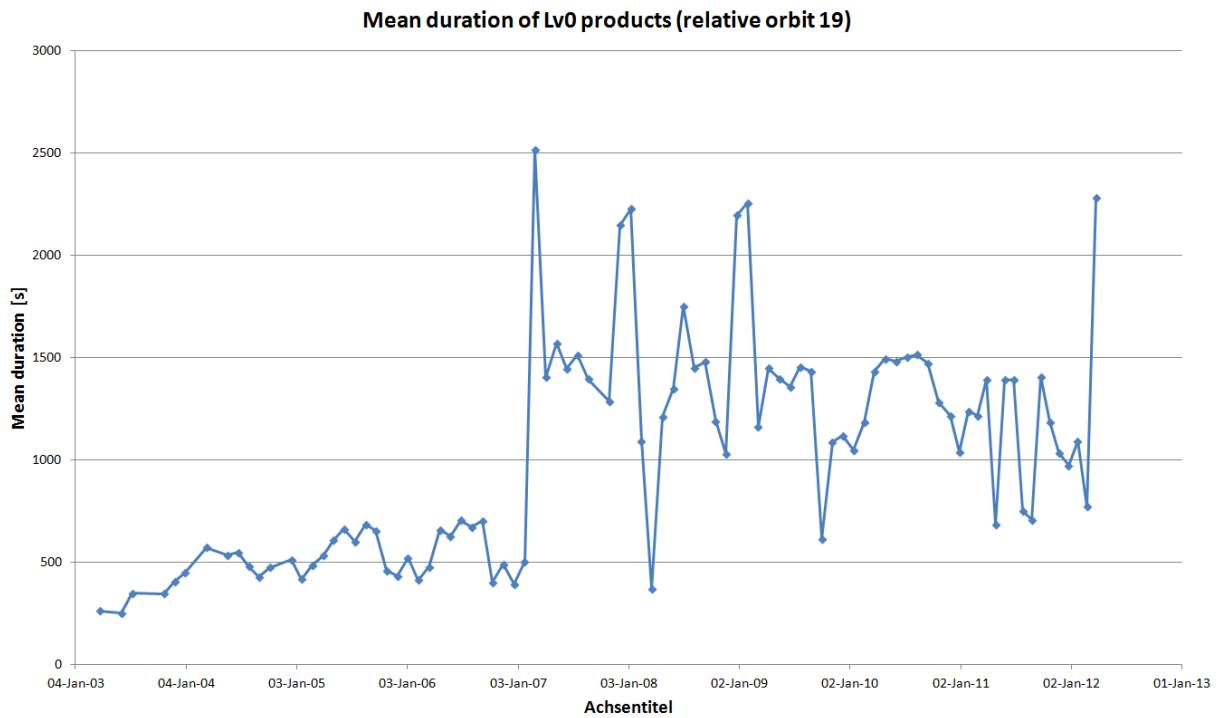
- Absolute_orbit > 0
- Stop > Start
- product not in quarantine
- Previous stops before current product
- duration >= 7 seconds
- 1 <> relative orbit number <= 501
- Previous product stopped before current product



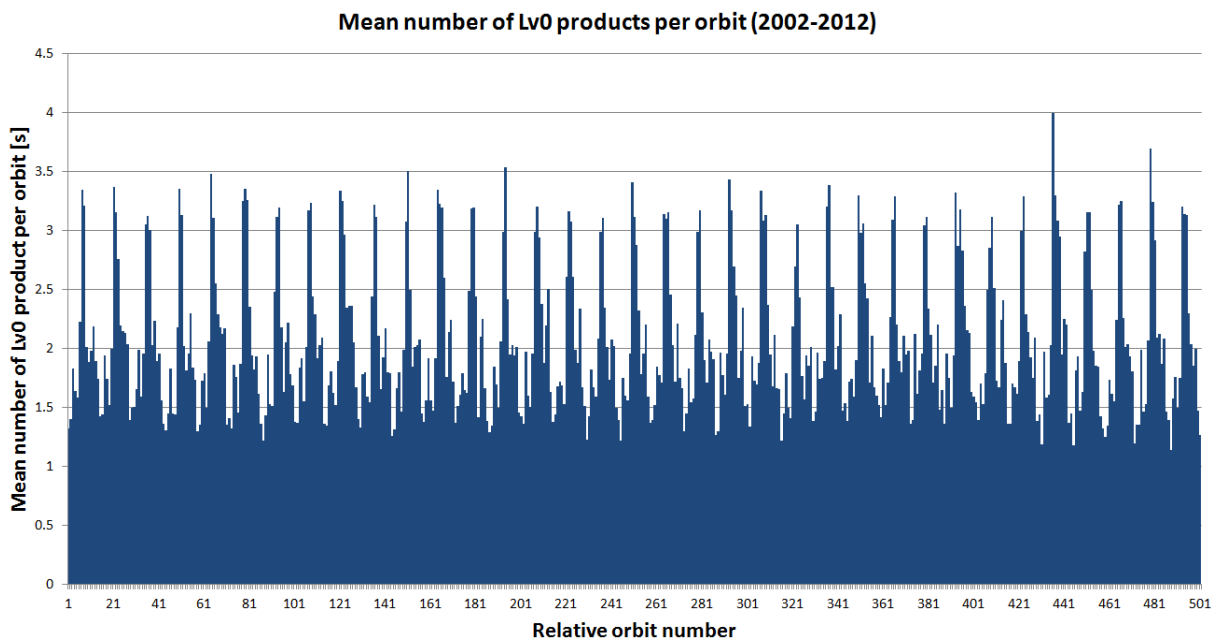
The first 50 orbits only:



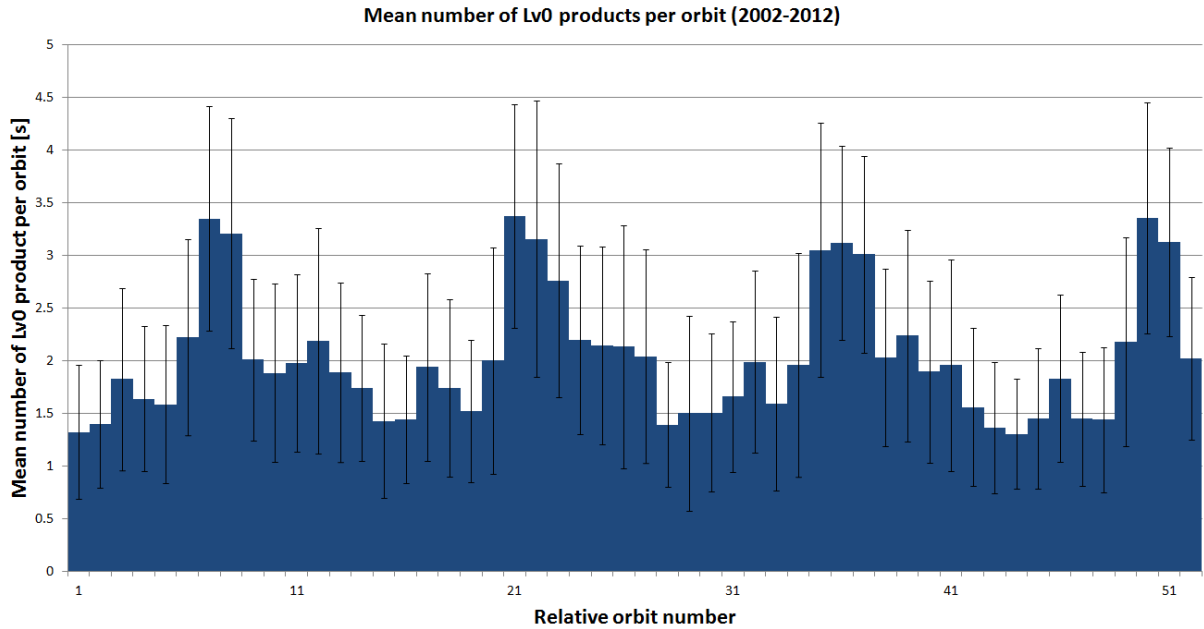
2.3.3 Mean duration orbit 19 (timeseries)



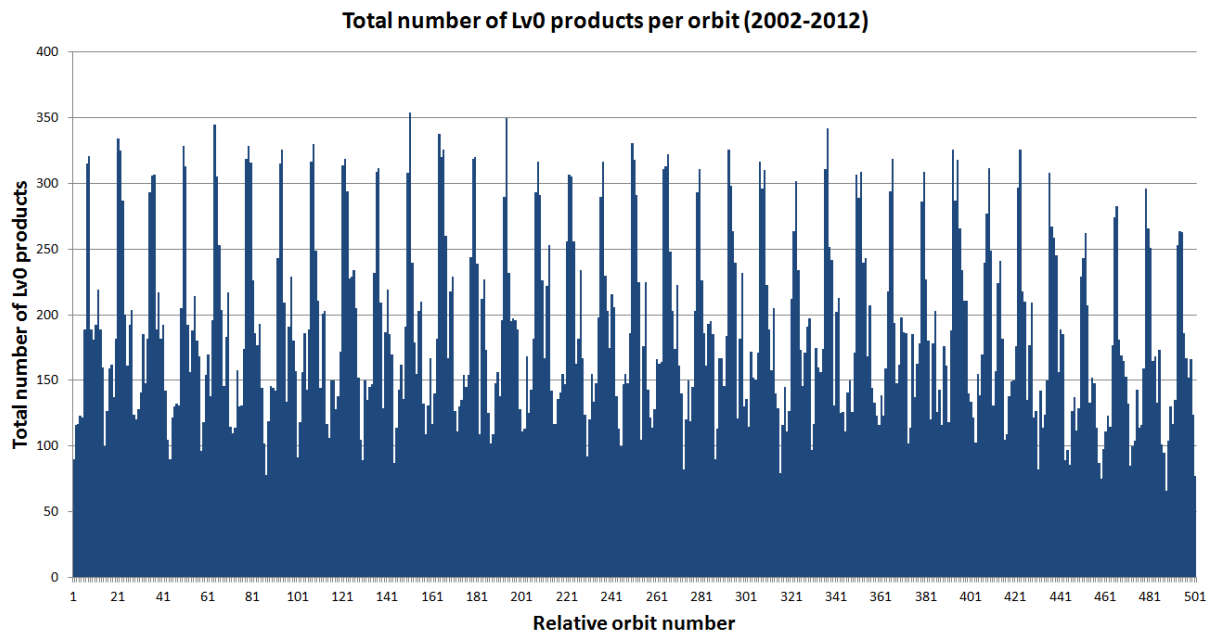
2.3.4 Mean number of products per orbit



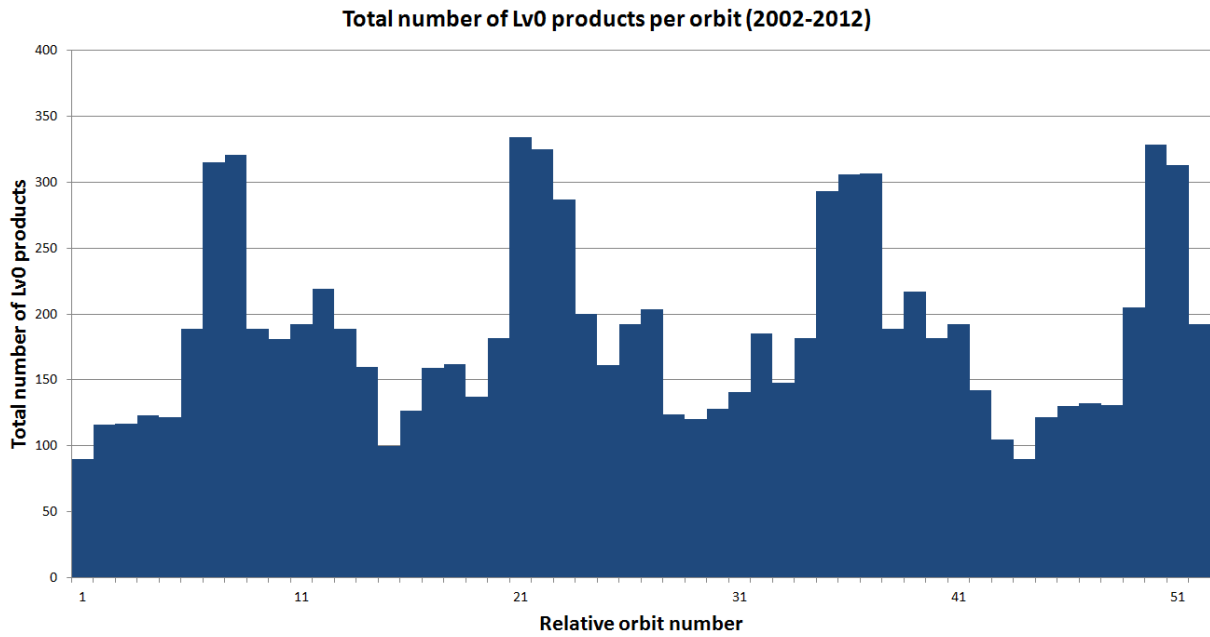
The first 50 orbits only:



2.3.5 Total number of products per orbit

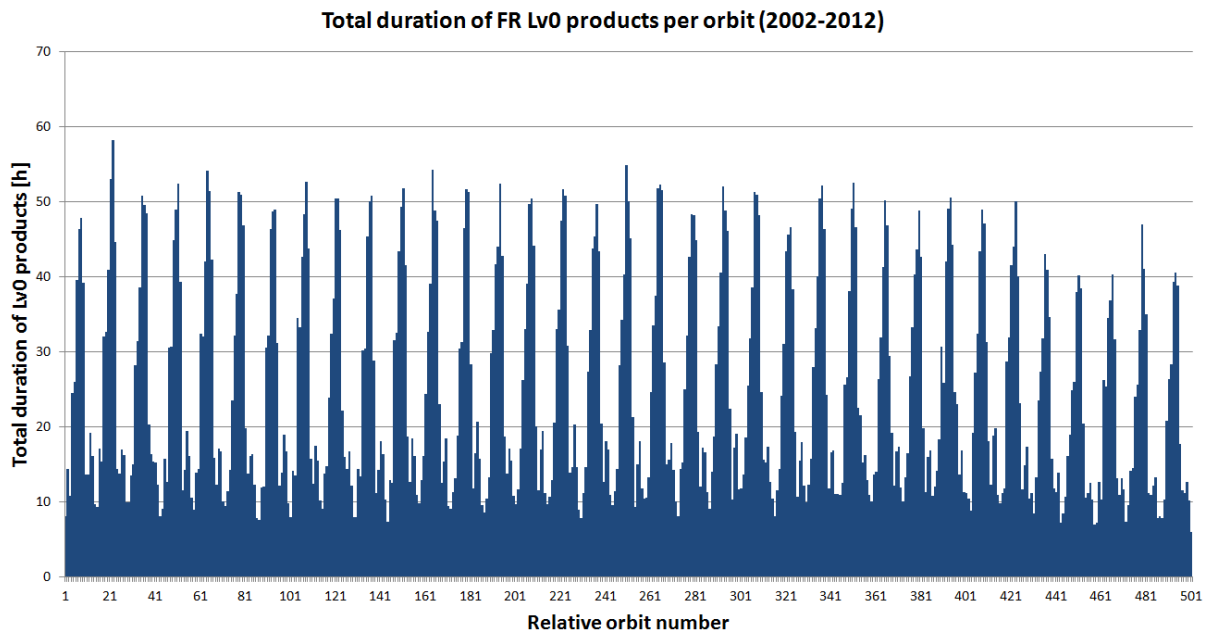



The first 50 orbits only:



2.3.6 Total duration of products per orbit

Duplicates and overlaps are included still!



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2.4 Absolute orbits

Remark: Products in quarantine were omitted from this analysis.

Orbit numbers were validated by the constraint $abs_orbit > 0$:

- Two product have an orbit ID equal to zero:

original_name	archive_name	start_time	stop_time	abs_orbit
MER_FR_0PNGAT20081118_152758_000000702074_00011_35135_0825.N1	ENVISAT,1/ME	2008-11-18T15:27:58.551	2008-11-18T15	35135
MER_FR_0PNGAT20081119_144728_00000534X000_00000_00000_0000.N1	ENVISAT,1/ME	2008-11-19T14:47:28.538	2008-11-19T14	0
MER_FR_0PNGAT20081119_145622_00000064X000_00000_00000_0001.N1	ENVISAT,1/ME	2008-11-19T14:56:22.222	2008-11-19T14	0
MER_FR_0PNGAT20081119_144728_000005342074_00025_35149_0007.N1	ENVISAT,1/ME	2008-11-19T14:47:28.538	2008-11-19T14	35149
MER_FR_0PNGAT20081119_145622_000000642074_00025_35149_0008.N1	ENVISAT,1/ME	2008-11-19T14:56:22.222	2008-11-19T14	35149
MER_FR_0PNGAT20081119_162804_000005122074_00026_35150_0002.N1	ENVISAT,1/ME	2008-11-19T16:28:04.472	2008-11-19T16	35150

Products should be removed: since they appear to be duplicates for abs_orbit 35149.

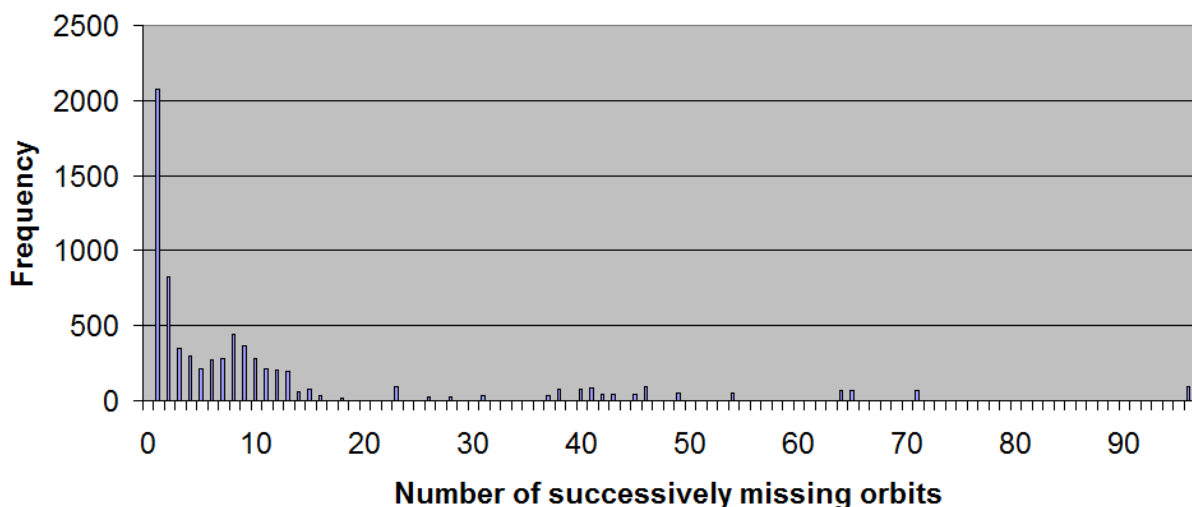
- Other products (6.6.-9.6.2008) have negative orbit numbers indicating an integer data type problem (signed vs unsigned integer):

original_name	archive_name	start_time	stop_time	abs_orbit
MER_FR_0PNPDE20080606_064120_000016142069_00149_32768_8452.N1	ENVISAT,1/ME	2008-06-06T06:	2008-06-06T07	32768
MER_FR_0PNPAM20080606_082323_000006012069_00150_32769_2368.N1	ENVISAT,1/ME	2008-06-06T08:	2008-06-06T08	-32767
MER_FR_0PNPDK20080606_083302_000004022069_00150_32769_6743.N1	ENVISAT,1/ME	2008-06-06T08:	2008-06-06T08	-32767
MER_FR_0PNPDK20080606_081348_000007132069_00150_32769_6742.N1	ENVISAT,1/ME	2008-06-06T08:	2008-06-06T08	-32767
MER_FR_0PNPDE20080606_082157_000007872069_00150_32769_8453.N1	ENVISAT,1/ME	2008-06-06T08:	2008-06-06T08	-32767
MER_FR_0PNPAM20080606_100402_000004822069_00151_32770_2369.N1	ENVISAT,1/ME	2008-06-06T10:	2008-06-06T10	-32766
MER_FR_0PNPDK20080606_095722_000004632069_00151_32770_6744.N1	ENVISAT,1/ME	2008-06-06T09:	2008-06-06T10	-32766

Workaround: Correct numbers might be equal to $abs_orbit + 2^{16}$.

The following gaps between successive products were found:

MERIS FR (Lv0): Frequencies of successively missing orbits




Year	First orbit	Last orbit	ENVISAT orbits	Missing FR orbits	Missing FR orbits [%]
2002	564	4378	3815 (4378)	3045 (3608)	79.8 (82.4)
2003	4379	9603	5225	1713	32.8
2004	9604	14842	5239	351	6.7
2005	14843	20067	5225	200	3.8
2006	20068	25291	5224	470	9.0
2007	25292	30516	5225	280	5.4
2008	30517	35755	5239	257	4.9
2009	35756	40980	5225	297	5.7
2010	40981	46208	5228	652	12.5
2011	46209	51452	5244	415	7.9
2012	51453	52867	1415	101	7.1
		Sum:	52304 (52867)	7781 (8344)	14,9 (15.8)%

Neglecting the years 2002 and 2003, 3023 of 43264 orbits are missing, resulting in 7 % in total. This result is comparable to the value achieved for RR (see table below).

Year	ENVISAT orbits	Missing RR orbits from LRAC archive [%]
2002	3533	667
2003	5225	334
2004	5239	204
2005	5225	137
2006	5224	253
2007	5225	165
2008	5239	698
2009	5225	194
2010	5228	138
2011	5244	85
2012	1415	15
TOTAL=	52022	3150
%=	n/a	5.5%

Reference: IDEAS – MERIS Reduced Resolution (RR) Level 0 Dataset Consolidation (MERIS SPPA Team – Stacey Hopkins)

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2.5 Orbit duration

A few Lv0 products have wrong timestamps, e. g. the following stop dates/times are lesser than the start date/times:


Year	abs_orbit	start_time	stop_time	Duration_seconds
2002	2653	2002-09-02T10:30:15.036	2002-09-02T10:30:14.071	-0.999999870548507
2008	32530	2008-07-08T04:40:41.345	2008-05-20T15:43:06.510	-4193854.00000001
2008	32672	2008-05-30T13:52:18.317	2008-04-12T00:48:47.543	-4194210.00000014
2008	33404	2008-08-01T20:14:52.866	2008-07-20T17:07:31.001	-1048041.99999998
2008	33935	2008-08-26T19:24:10.784	2008-05-21T17:15:28.823	-8388522.00000014

These products will be omitted from the following calculations.

Remark: Due to rounding errors within this analysis, durations below 1 second might be lesser than 0. The corresponding results range between 10^{-7} and 10^{-8} . These values should be replaced by 0.5 seconds.

Minimum, maximum and mean duration of orbits were calculated for all orbits lasting at least 7 seconds, i. E. short products were neglected.

Year	Min_Duration	Max_Duration	Mean_Duration
2002	7	759	182
2003	7	5807	290
2004	7	829	316
2005	7	1011	379
2006	7	5064	397
2007	8	2594	570
2008	7	5422	545
2009	7	2328	558
2010	7	2362	654
2011	7	2404	580
2012	8	2603	564

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2.6 Shorts

Number of products having a duration ranging between 0 and < 7 seconds:

Year	Num_short_products
2002	3
2003	122
2004	152
2005	103
2006	44
2007	229
2008	18
2009	17
2010	19
2011	70
2012	17
Sum:	1135

2.7 Exact Duplicates

Number of exact duplicates: 223

Year	Num_products_exact_duplicate
2002	-
2003	24
2004	2
2005	4
2006	55
2007	48
2008	28
2009	15
2010	15

Year	Num_products_exact_duplicate
2011	31
2012	1
Sum:	223


Constraints:

- Order by abs_orbit and start_time
- Absolute_orbit > 0
- Stop > Start
- product not in quarantine
- Duration >= 7

Main constraint:

- Date and time are equal with date and time of previous Lv0 product

original_name	prev_product	abs orbit	year	start time	stop time	previous start	previous stop
MER_FR__OPNPD K20030124_13381 9_000003632012_ 00654_04716_039 3.N1	MER_FR__OPNPD K20030124_13381 9_000003632013_ 00153_04716_039 3.N1	4716	2003	2003-01- 24T13:38: 19.013	2003-01- 24T13:44: 22.388	2003-01- 24T13:38: 19.013	2003-01- 24T13:44:2 2.388
MER_FR__OPNPD K20030305_07444 9_000004242014_ 00221_05285_026 0.N1	MER_FR__OPNPD K20030305_07444 9_000004242014_ 00221_05285_024 1.N1	5285	2003	2003-03- 05T07:44: 49.010	2003-03- 05T07:51: 53.229	2003-03- 05T07:44: 49.010	2003-03- 05T07:51:5 3.229
MER_FR__OPNPD E20030601_08204 9_000054302016_ 00479_06545_051 6.N1	MER_FR__OPNPD E20030601_08204 9_000054302016_ 00479_06545_051 5.N1	6545	2003	2003-06- 01T08:20: 49.262	2003-06- 01T09:51: 20.168	2003-06- 01T08:20: 49.262	2003-06- 01T09:51:2 0.168
MER_FR__OPNPD E20030728_09473 8_000003992018_ 00294_07362_064 7.N1	MER_FR__OPNPD E20030728_09473 8_000003992018_ 00294_07362_064 6.N1	7362	2003	2003-07- 28T09:47: 38.032	2003-07- 28T09:54: 17.876	2003-07- 28T09:47: 38.032	2003-07- 28T09:54:1 7.876
MER_FR__OPNPD E20030731_09531 9_000003912018_ 00337_07405_066 8.N1	MER_FR__OPNPD E20030731_09531 9_000003912018_ 00337_07405_066 7.N1	7405	2003	2003-07- 31T09:53: 19.027	2003-07- 31T09:59: 50.648	2003-07- 31T09:53: 19.027	2003-07- 31T09:59:5 0.648
.....							

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2.8 Overlapping products

2.8.1 Totally included in previous or next

Number of overlapping products totally included in previous product = 5866

Year	Num_incl_in_prev
2002	8
2003	231
2004	265
2005	226
2006	410
2007	1092
2008	777
2009	757
2010	845
2011	964
2012	291
Sum:	5866

Constraints:

- Order by abs_orbit and start_time
- Absolute_orbit > 0
- Stop > Start
- product not in quarantine
- Duration >= 7

Main constraint:

- Starts after and ends before previous product.

prev_product	year	previous start	previous stop	original_name	abs.orbit	start time	stop time
MER_FR__0PNPD E20020829_09171 1_000000892009_ 00036_02595_010 9.N1	2002	2002-08- 29T09:17 :11.262	2002-08- 29T09:18 :40.446	MER_FR__0PNPD K20020829_09173 1_000000072009_ 00036_02595_042 6.N1	2595	2002-08- 29T09:17: 31.016	2002-08- 29T09:17: 38.188

prev_product	year	previous start	previous stop	original_name	abs.orbit	start time	stop time
MER_FR__OPNPD E20020830_10242 5_000000942009_ 00051_02610_011 2.N1	2002	2002-08- 30T10:24 :25.866	2002-08- 30T10:26 :00.593	MER_FR__OPNPD K20020830_10243 1_000000062009_ 00051_02610_044 6.N1	2610	2002-08- 30T10:24: 31.015	2002-08- 30T10:24: 37.921
MER_FR__OPNPD E20020912_10155 0_000000992009_ 00237_02796_013 9.N1	2002	2002-09- 12T10:15 :50.597	2002-09- 12T10:17 :30.469	MER_FR__OPNPD K20020912_10155 5_000000212009_ 00237_02796_001 5.N1	2796	2002-09- 12T10:15: 55.039	2002-09- 12T10:16: 16.816
MER_FR__OPNPD E20021207_10124 6_000003572011_ 00466_04027_001 6.N1	2002	2002-12- 07T10:12 :46.553	2002-12- 07T10:18 :44.513	MER_FR__OPNPD K20021207_10140 0_000000722011_ 00466_04027_012 0.N1	4027	2002-12- 07T10:14: 00.732	2002-12- 07T10:15: 13.681
....							

2.8.2 Partially overlapping products

Number of overlapping products totally included in previous product = 1642

Constraints:

- Order by abs_orbit and start_time
- Absolute_orbit > 0
- Stop > Start
- product not in quarantine
- Duration >= 7 seconds


Main constraint:

- Starts between start and stop of previous Lv0 product and stops after previous product or vice versa "starts before" and "ends between".

Number of partially overlapping products = 13068

Prev_Product	Year	previous_start	previous_stop	original_name	abs_orbit	start_time	stop_time
MER_FR__OPNPDk20020726_101853_000003432001	2002	2002-07-26T10:18:53.468	2002-07-26T10:24:37.441	MER_FR__OPNPDE20020726_102429_000000952008_00051_02109_0061.N1	2109	2002-07-26T10:24:29.671	2002-07-26T10:26:05.785
MER_FR__OPNPDk20020813_091318_000003282001	2002	2002-08-13T09:13:18.589	2002-08-13T09:18:47.554	MER_FR__OPNPDE20020813_091828_000002312008_00308_02366_0080.N1	2366	2002-08-13T09:18:28.769	2002-08-13T09:22:20.765
MER_FR__OPNPDk20020814_102142_000003452001	2002	2002-08-14T10:21:42.010	2002-08-14T10:27:27.959	MER_FR__OPNPDE20020814_102720_000001832008_00323_02391_0082.N1	2391	2002-08-14T10:27:20.041	2002-08-14T10:30:23.158
MER_FR__OPNPDk20020819_091935_000005252001	2002	2002-08-19T09:19:35.951	2002-08-19T09:26:21.939	MER_FR__OPNPDE20020819_092735_000005332008_00394_02452_0090.N1	2452	2002-08-19T09:27:35.521	2002-08-19T09:36:29.470
MER_FR__OPNPDk20020829_091129_000003632001	2002	2002-08-29T09:11:29.536	2002-08-29T09:17:33.481	MER_FR__OPNPDE20020829_091711_000000892008_00036_02595_0109.N1	2595	2002-08-29T09:17:11.262	2002-08-29T09:18:40.446

Year	Num_overlapping
2002	24
2003	460
2004	656
2005	1918
2006	2253
2007	1451
2008	1677
2009	1491
2010	1057
2011	1556
2012	525
Sum:	13068

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3 Level 1b Analyse

3.1 Description

The QA of MERIS FR L1b data has taken place by a specifically developed tool. All in all, different errors for unusable MERIS FR L1b products have been documented:

- Short products
- Blank lines not flagged invalid
- Shifted geolocation
- Wrong colours
- Horizontal and vertical stripes
- Repetition lines


The products, which are affected by the errors - short, duplicate and blank, have been selected to be **removed**. Then again, the quality of data within the archive obtained throughout manoeuvres, spectral campaigns, and products known to be adversely affected by the Envisat 2010+ orbital lowering, products with degraded quality (acquisition problems...) cannot be guaranteed and should be viewed with caution. They have been selected to be **segregated**. Furthermore other errors - geolocation, colour, stripe and repletion have been observed in the remaining unusable products. These errors often occur in combinations. They have been selected to be **segregated** also. Products with errors but containing larger parts which are not affected by the error and which probably will be recovered on a later stage with suitable tools. Those products might be partly usable.

Altogether, 134829 usable products were identified in the ENVISAT MERIS FR L1b data and 134826 usable products were identified in the ENVISAT MERIS FR L2 data.

The following tables summarize which products are influenced by faulty data.

Error		Description	Category
Removed			
	Blank	– no lines with data	Blank
	Short	– products less than 7 seconds	Short
	Exact or fully included duplicate	– products which have the same starting time (exact duplicate) and duration or which are temporarily and spatially included	Duplicate
Segregated			
	Calibration, Campaign or orbit manoeuvre		Special event
	Missing data (not "totally" blank)	– few blank lines within the product	Missing data
	Geolocation	– wrong geolocation, mainly caused by missing lines	Geolocation
	Stripes or colours	– one camera clearly different than the others – horizontal or vertical stripes – wrong colours These errors often occur in combination with missing data and geolocation errors.	Stripes or colours
	Repetition lines	– repetition of lines in several locations of the product	Repetition lines

The following two sections include the illustration of the errors observed in the MERIS FR L1b data and the results of the QA of MERIS L2.

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3.2 Examples of erroneous MERIS FR L1b products

The following images illustrate the errors observed in the MERIS FR L1b data.

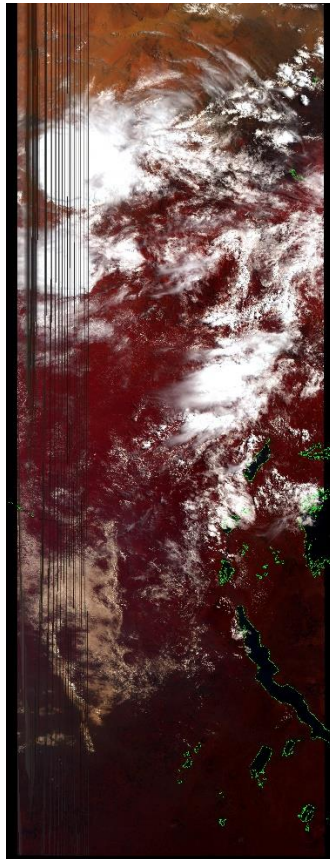


Figure 1: Example for vertical fine stripes (MER_FRS_1PPEPA20110806_080919_000005123105_00179_49331_2233.N1)

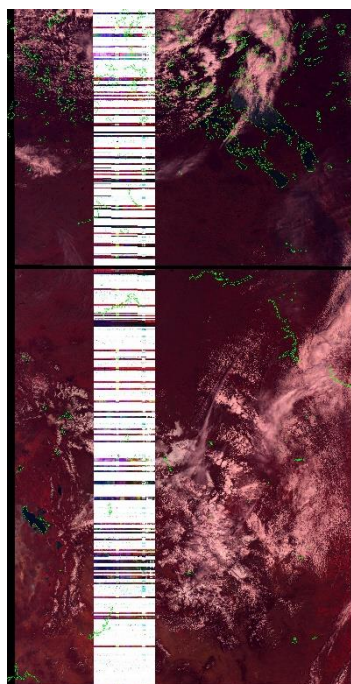



Figure 2: Example for stripes (MER_FSG_1PNUPA20070507_173155_000003802057_00499_27106_5656.N1)

 BROCKMANN CONSULT GMBH		Document:	MERIS FRv2013_TN_QA_v1.1.docx	
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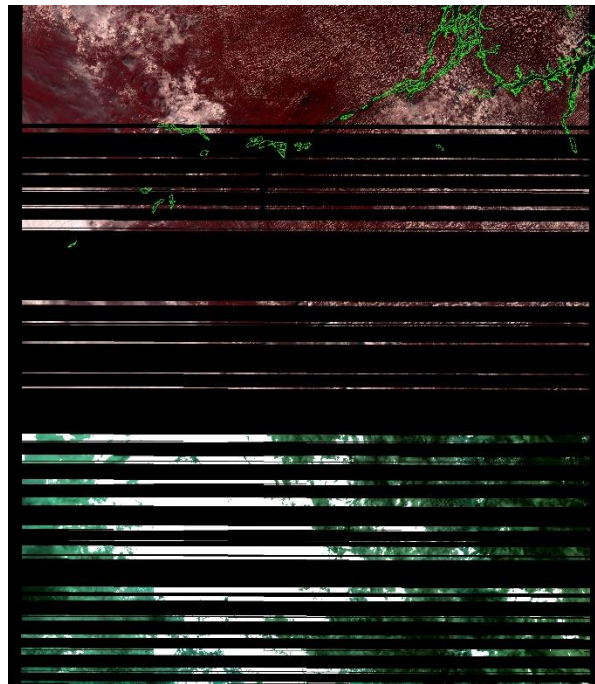


Figure 3: Example for stripes (MER_FRS_1PPEPA20031202_133502_000002252022_00110_09182_7447.N1)

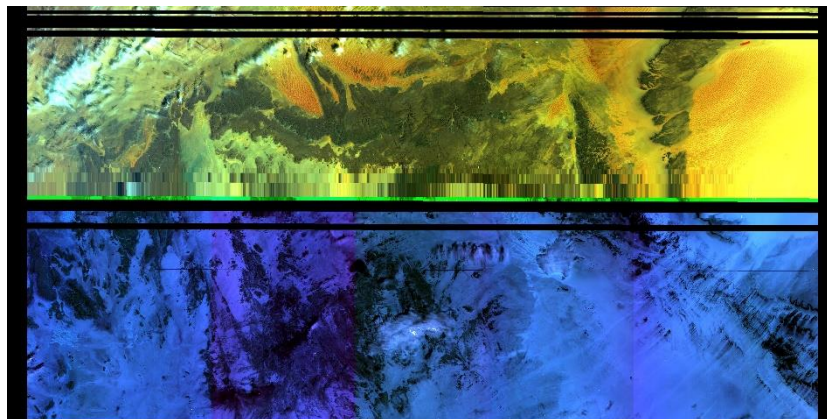



Figure 4: Example for wrong colour (MER_FRS_1PPEPA20030213_094307_000000982013_00437_05000_2432.N1)

 BROCKMANN CONSULT GMBH		Document:	MERIS FRv2013_TN_QA_v1.1.docx	
		Date:	26.10.2017	
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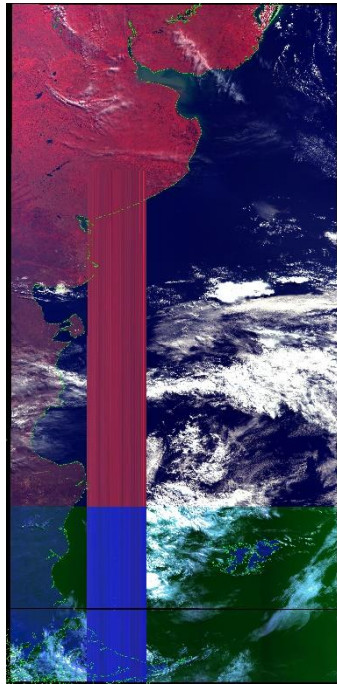


Figure 5: Example for wrong colour (MER_FRS_1PPEPA20040323_132407_000003992025_00210_10785_1095.N1)

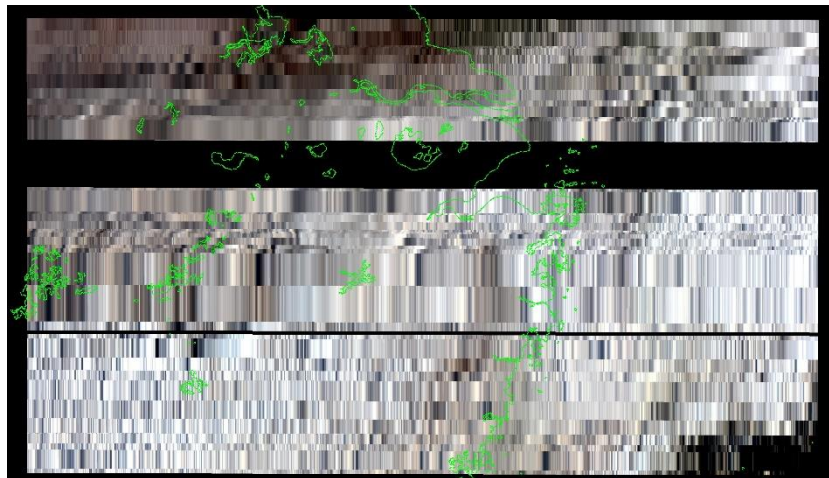



Figure 6: Example for stripes (MER_FRS_1PPEPA20050127_021857_000001122034_00132_15216_1703.N1)

 BROCKMANN CONSULT GMBH		Document:	MERIS FRv2013_TN_QA_v1.1.docx	
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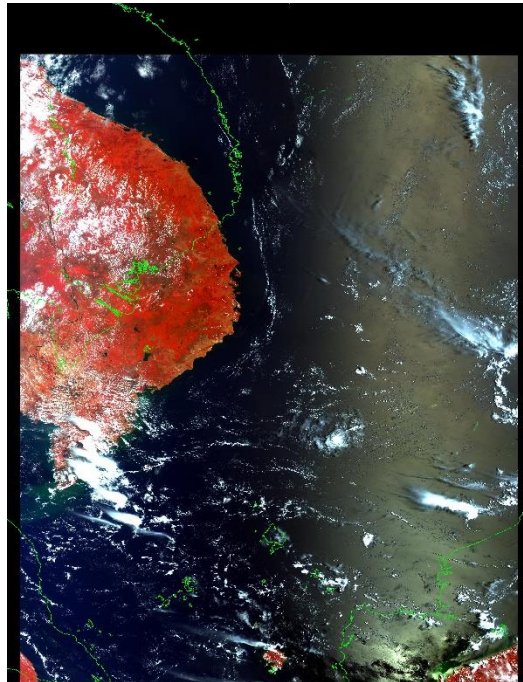


Figure 7: Example for wrong geocoding (MER_FRS_1PPEPA20060404_024640_000002562046_00304_21400_4636.N1)

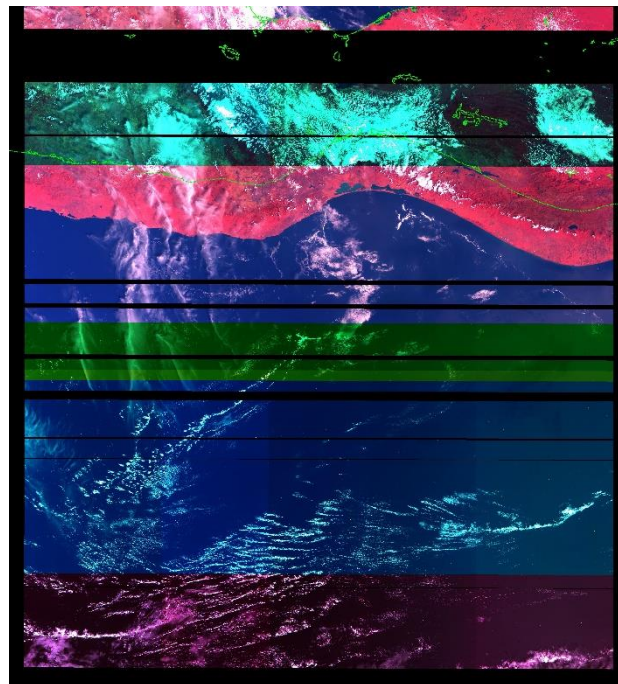



Figure 8: Example for multiple errors (MER_FRS_1PPEPA20050201_163056_000002162034_00212_15296_1861.N1)


		Document:	MERIS FRv2013_TN_QA_v1.1.docx	
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3.3 Result QA MERIS FR L1b

Results of the QA of MERIS FR L1b

Main Category	Subcategory	Products	Relative
Potentially good		134829	97.85 (97.71)%
Corrupt		1263 (1456)	0.92 (1.06)%
	Short		719
	Duplicate		462
	Blank		82 (275)
Segregated		1703	1.23 (1.23)%
Sum:		137795 (137988)	100%

Remark: in brackets +193 replaced products

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4 Level 2 Analyse

4.1 Description

The Level 2 analysis based upon the results of the QA regarding MERIS L1b data and the analysis during further processing of MERIS L1b data to MERIS L2 data.

The following two sections include the illustration of the errors observed in the MERIS FR L2 data and the results of QA regarding MERIS L2.

4.2 Examples of erroneous MERIS FR L2 products

The following images illustrate the errors observed in the MERIS FR L2 data

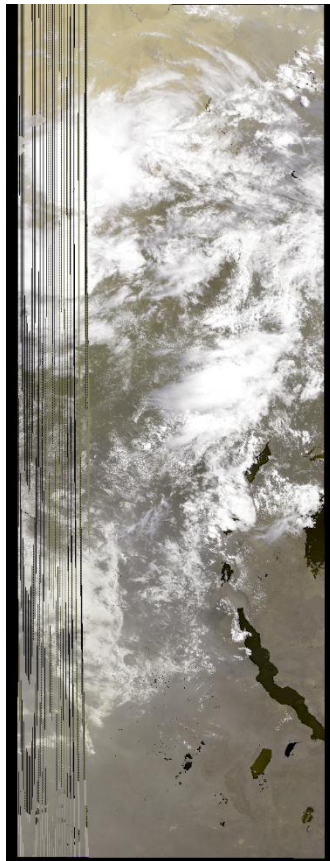



Figure 9: Example for vertical fine stripes (MER_FRS_2PPDSI20110806_080919_00005123105_00179_49331_2233.N1)

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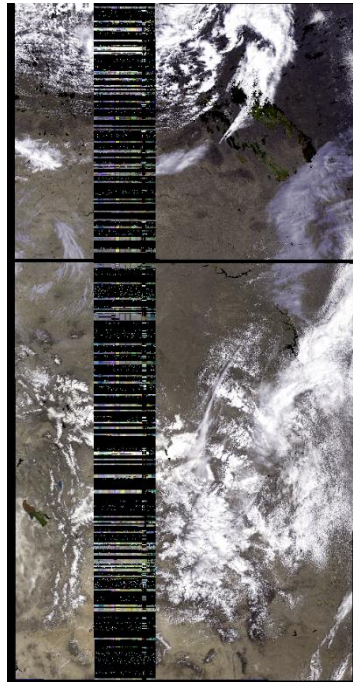


Figure 10: Example for stripes (MER_FRS_2PPDSI20070507_173156_000003802057_00499_27106_5411.N1)

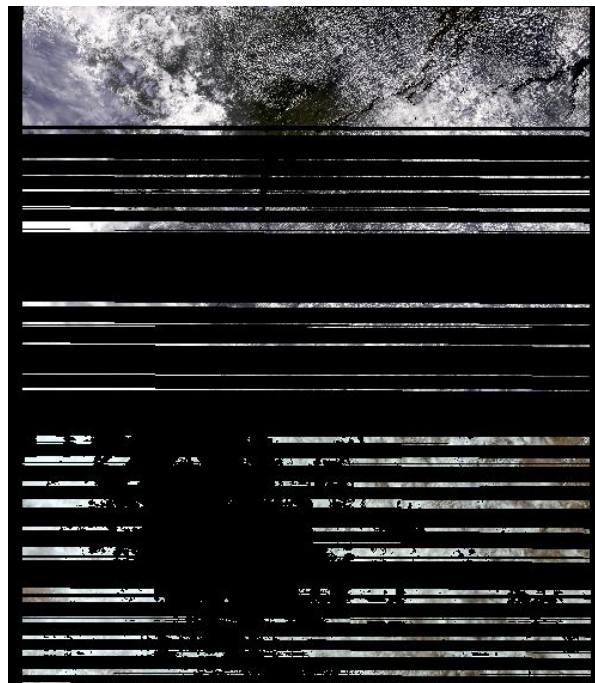


Figure 11: Example for stripes (MER_FRS_1PPEPA20031202_133502_000002252022_00110_09182_7447.N1)


 BROCKMANN CONSULT GMBH		Document:	MERIS FRv2013_TN_QA_v1.1.docx	
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Figure 12: Example for wrong colour (MER_FRS_2PPDSI20030213_094307_000000982013_00437_05000_5319.N1)

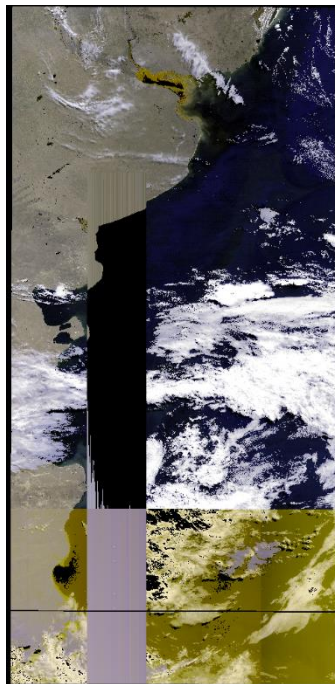



Figure 13: Example for wrong colour (MER_FRS_2PPDSI20040323_132407_000003992025_00210_10785_3811.N1)

		Document:	MERIS FRv2013_TN_QA_v1.1.docx	
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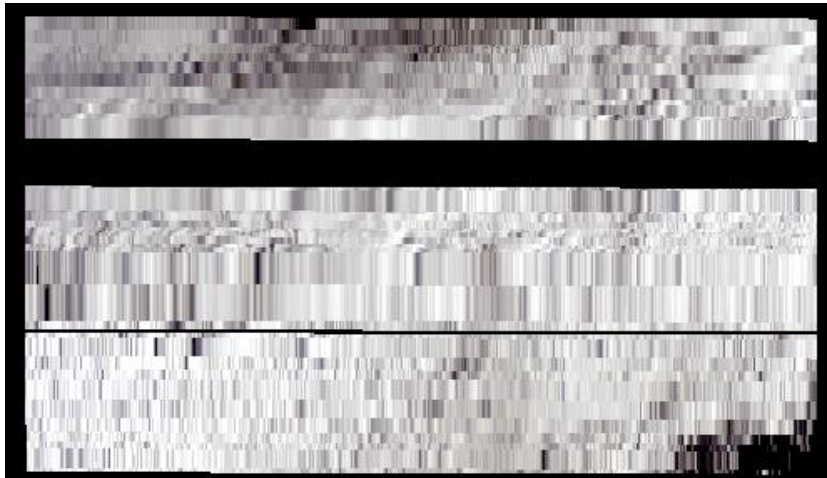


Figure 14: Example for stripes (MER_FRS_2PPDSI20050127_021857_000001122034_00132_15216_3180.N1)

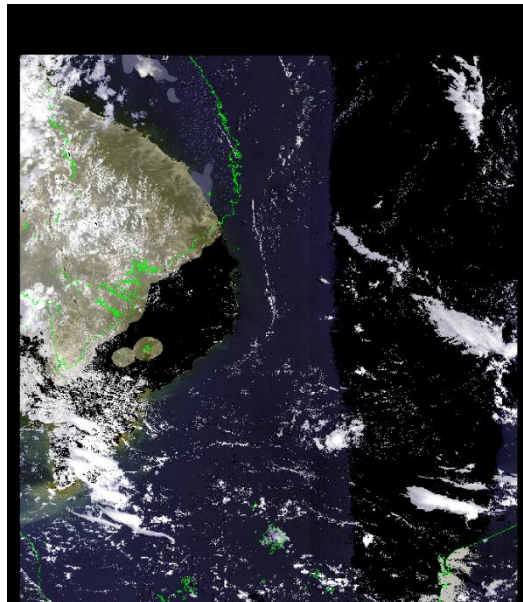



Figure 15: Example for wrong geocoding (MER_FRS_2PPDSI20060404_024640_000002562046_00304_21400_4636.N1)

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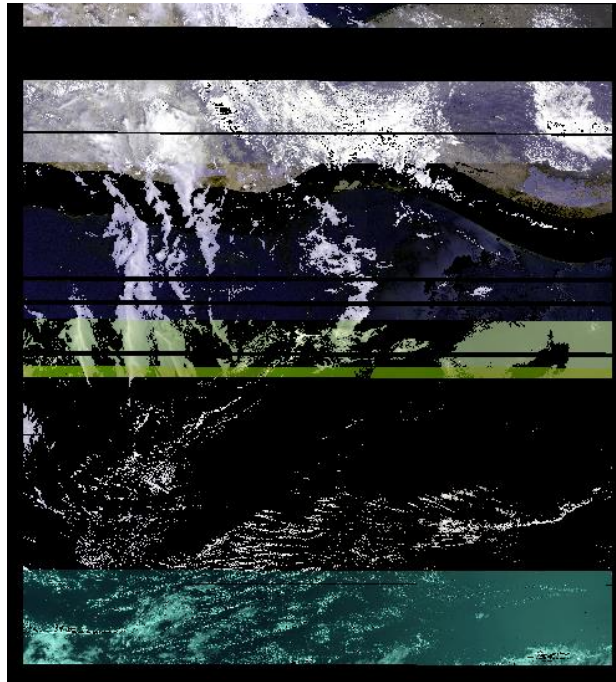



Figure 16: Example for multiple errors (MER_FRS_2PPDSI20050201_163056_000002162034_00212_15296_3346.N1)

4.3 Result QA MERIS FR L2

Results of the QA of MERIS FR L2

Main Category	Subcategory	Products	Relative
Potentially good		134826	97.86%
Corrupt		1259	0.91%
	Short		716
	Duplicate		462
	Blank		81
Segregated		1689	1.23%
Sum:		137774	100%

Remark: Remarks: 15 L1 products have not been processed to L2 and 6 L1 products have been processed to 10 suspicious L2 products.

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5 APENDIX

5.1 L1 read-me

Filename: MERIS_FR_L1_Data-README_v2013_20170123_v5.0.txt
 Release: 23/01/2017, valid for 2002-2012 MERIS L1 products v2013

=====
 INTRODUCTION
 =====

This file has been generated on behalf of ESA and the MERIS Quality Working Group.

The MERIS Quality Working Group has recommended that ESA implements the segregation of a selection of MERIS products from the main archive. The aim of this decision is to allow for the clear distinction of data known to be of non-nominal quality, without removing them from the archive completely.

This README file gives:

1. Explanation on the limitations posed by Case II Waters and the known discrepancies concerning the accuracy of the Case II Waters algorithms.
2. A brief explanation of the scenarios for which some data have been segregated
3. Error description for segregated products
4. List of segregated orbits and the reasons for segregation (note that the orbit numbers in this list correspond to those in the filenames of the MERIS products v2013)
 - * orbits known to be affected by Orbital Manoeuvres.
 - * orbits known to be affected Spectral Calibration Campaigns.
 - * products known to be adversely affected by the Envisat 2010+ orbital lowering.
 - * products with degraded quality (acquisition problems...)
5. List of Level 1 (MER_FRS_1P) corrupted products that have been replaced in the dissemination server by nominal quality products
6. List of Level 1 (MER_FRS_1P) that have been removed from the dissemination servers (exact duplicates, blank, short, corrupted...)
7. MER_FRS_1P products during special events, such as Calibration, Spectral characterisation or Orbit manoeuvre

For further information, please submit queries via the ESA Earth Observation Helpdesk: <https://earth.esa.int/web/guest/contact-us>

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 1 - Case II Waters Advisory Note
 =====

Case II waters are complex waters found within inter-coastal zones, which are influenced by a multitude of parameters. As a result, the optical properties of such waters are highly variable and are controlled by three independent components:

- * Phytoplankton and their associated debris,
- * Dissolved organic matters of terrigenous origin, known variously as yellow substance, Gelbstoff, Gilvin or CDOM (coloured dissolved organic matter),
- * Mineral particles and various suspended sediments.


The changes made to the Case II waters algorithm throughout the 3rd Reprocessing are detailed within the C2R ATBD at: https://earth.esa.int/instruments/meris/atbd/abtd_2.25_v1.0.pdf

Case II waters require the separation of different optical components, currently achieved via a series of BEAM plug-ins, designated to the atmospheric correction and retrieval of oceanic constituents.

<http://www.odesa-info.eu/forum/viewtopic.php?f=13&t=82&p=101&hilit=case+two+waters&sid=505a51c7eeb3fbc92b7d76d5c5180482#p101>

Recent findings by the MERIS QWG, have found that these algorithms are not reliable following user reported problems with the bands associated with Case II waters, such as the Algal_2 band.

In particular, a discrepancy has been observed within the unrealistic correlation between optical chlorophyll values and acquisition seasonality. Therefore, it has been proposed that the algorithms associated Case II Waters be revised throughout 4th Reprocessing activities.

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2 - Scenarios (Manoeuvres and Spectral Calibration)

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Instrument Mode during Orbital Manoeuvres: MERIS remained within OPERATION/ON mode

Spectral Calibration Campaigns: The spectral calibration activities performed during the MERIS commissioning phase comprised three different measurement types:

- The Spectral calibration mode made use of the on-board calibration mechanism to deploy an Erbium doped Spectralon TM diffuser plate, offering a number of spectral absorption features which could be measured by 15 adjacent narrow bands (circa 408 & 522nm.)
- Observation of natural targets with the bands configured around solar Fraunhofer absorption lines (at 393, 485, 588, 655, 855 and 867 nm).
- Observation of natural targets with the bands configured around the oxygen O2-A absorption lines (760 nm).

Therefore, the quality of data within the archive obtained throughout Manoeuvres and Spectral Campaigns cannot be guaranteed and should be viewed with caution.

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3 - Error description for removed and/or segregate products

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Products with errors but containing larger parts which are not affected by the error and which probably will be recovered on a later stage with suitable tools. Those products might be partly usable. They have been selected to be segregated. Other products, which are too heavily affected by the errors have been selected to be removed.

#Category	#Error	#Description
To be removed	Blank	- no or only very few lines with data
To be removed	Short	- product duration less than 7 seconds
To be removed	Duplicate	- product of same starting time and duration as another product or product totally included in another product
Segregated	Special event	- calibration, campaign or orbit manoeuvre
Segregated	Missing data	- few blank lines within the product, i. e. not "totally" blank
Segregated	Geolocation	- wrong geolocation, mainly caused by missing lines
Segregated	Stripes or colours	- one camera clearly different compared to the others or horizontal lines
Segregated	Repetition lines	- repetition of lines in several locations of the product

Remarks:

- Stripes or colours often occur in combination with missing data and geolocation errors.
- Blank, short and duplicate products are considered as corrupt, i. e. categorised as "to be removed". All other products are considered as segregated.

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4 - List of segregated orbits (n = 1522, not corrupt)

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Year 2002:

```
<orbit> <start_YYYYMMDD> <start_time_hhmmss> <reason>
2796 20020912 101550 Geolocation, Stripes or colours
3168 20021008 095602 Stripes or colours
3311 20021018 094048 Geolocation
3588 20021106 181107 Stripes or colours
3598 20021107 105337 Stripes or colours
3598 20021107 105606 Stripes or colours
3701 20021114 154103 Stripes or colours
4058 20021209 143120 Stripes or colours
4186 20021218 130242 Missing data, Stripes or colours
```

Year 2003:

```
<orbit> <start_YYYYMMDD> <start_time_hhmmss> <reason>
4716 20030124 133818 Stripes or colours
4716 20030124 133818 Stripes or colours
4740 20030126 053911 Stripes or colours
5000 20030213 093312 Missing data, Geolocation, Stripes or colours
5000 20030213 094307 Geolocation, Stripes or colours
```


5185	20030226 074800	Missing data, Geolocation, Stripes or colours
5229	20030301 093515	Missing data, Geolocation
5229	20030301 094010	Missing data, Geolocation, Stripes or colours
5572	20030325 084026	Geolocation
5614	20030328 070814	Missing data
5659	20030331 102954	Stripes or colours
5660	20030331 120231	Calibration, Stripes or colours
5718	20030404 134647	Geolocation
6102	20030501 091752	Missing data, Geolocation, Stripes or colours
6293	20030514 172821	Geolocation, Stripes or colours
6545	20030601 082049	Missing data
6545	20030601 082049	Missing data
6740	20030614 225139	Missing data, Geolocation
6740	20030614 231708	Missing data, Stripes or colours
6740	20030614 232507	Missing data
6761	20030616 100747	Missing data, Geolocation, Stripes or colours
6777	20030617 131408	Missing data, Geolocation
7023	20030704 172813	Stripes or colours
7047	20030706 094732	Geolocation
7105	20030710 105818	Missing data, Geolocation, Stripes or colours
7172	20030715 032203	Stripes or colours
7172	20030715 033032	Missing data, Geolocation
7234	20030719 111847	Missing data, Geolocation, Stripes or colours
7277	20030722 112427	Missing data, Geolocation, Stripes or colours
7401	20030731 031913	Missing data
7401	20030731 031933	Missing data, Geolocation
7402	20030731 050016	Missing data
7405	20030731 095319	Stripes or colours
7418	20030801 074442	Missing data, Geolocation
7419	20030801 092001	Missing data, Geolocation, Stripes or colours
7419	20030801 092913	Missing data, Stripes or colours
7430	20030802 034858	Missing data, Geolocation, Stripes or colours
7430	20030802 035727	Missing data
7431	20030802 053149	Missing data, Geolocation
7432	20030802 071744	Missing data, Stripes or colours
7434	20030802 104358	Stripes or colours
7444	20030803 032218	Missing data, Geolocation, Stripes or colours
7445	20030803 045817	Geolocation
7445	20030803 050646	Missing data, Geolocation
7446	20030803 063838	Missing data, Geolocation, Stripes or colours
7446	20030803 064707	Missing data, Stripes or colours
7459	20030804 042043	Missing data, Geolocation
7460	20030804 060653	Missing data, Geolocation, Stripes or colours
7460	20030804 061522	Missing data, Geolocation, Stripes or colours
7489	20030806 064812	Missing data, Stripes or colours
7491	20030806 100328	Missing data, Geolocation
7502	20030807 043547	Missing data, Geolocation, Stripes or colours
7503	20030807 060902	Missing data, Geolocation, Stripes or colours
7531	20030809 050932	Missing data
7531	20030809 051801	Missing data, Geolocation
7532	20030809 065015	Missing data, Geolocation, Stripes or colours
7532	20030809 065844	Missing data, Geolocation
7547	20030810 075951	Missing data
7559	20030811 040559	Geolocation
7560	20030811 054726	Missing data, Geolocation
7563	20030811 104811	Missing data
7563	20030811 105640	Missing data, Stripes or colours
7574	20030812 051647	Missing data, Geolocation
7575	20030812 065822	Missing data, Geolocation

7575	20030812 070651	Missing data, Geolocation
7576	20030812 084002	Missing data, Geolocation, Stripes or colours
7576	20030812 084831	Missing data, Geolocation
7590	20030813 080254	Missing data
7689	20030820 062449	Missing data, Geolocation, Stripes or colours
7704	20030821 072853	Missing data, Geolocation
7721	20030822 114042	Stripes or colours
7735	20030823 111850	Missing data, Geolocation, Stripes or colours
7760	20030825 051523	Geolocation
7766	20030825 151552	Spectral characterisation, Stripes or colours
7767	20030825 165640	Spectral characterisation, Stripes or colours
7769	20030825 201040	Spectral characterisation, Stripes or colours
7771	20030825 235121	Spectral characterisation, Stripes or colours
7774	20030826 042956	Stripes or colours
7774	20030826 043904	Stripes or colours
7774	20030826 044734	Stripes or colours
7775	20030826 061845	Spectral characterisation, Stripes or colours
7775	20030826 062714	Spectral characterisation, Stripes or colours
7775	20030826 062907	Spectral characterisation, Stripes or colours
7775	20030826 063609	Spectral characterisation, Stripes or colours
7776	20030826 075659	Spectral characterisation, Stripes or colours
7776	20030826 080528	Spectral characterisation, Stripes or colours
7776	20030826 081530	Spectral characterisation, Stripes or colours
7777	20030826 094608	Spectral characterisation, Stripes or colours
7778	20030826 112431	Missing data
7962	20030908 075447	Missing data, Geolocation
7976	20030909 073147	Missing data, Geolocation, Stripes or colours
7978	20030909 103510	Missing data, Geolocation, Stripes or colours
8005	20030911 080923	Missing data, Geolocation
8007	20030911 111901	Missing data, Geolocation, Stripes or colours
8162	20030922 072309	Missing data, Geolocation, Stripes or colours
8177	20030923 082749	Geolocation
8191	20030924 080051	Missing data, Geolocation
8225	20030926 165352	Geolocation, Repetition lines
8277	20030930 080501	Geolocation
8319	20031003 061703	Stripes or colours
8346	20031005 033413	Missing data
8397	20031008 171131	Stripes or colours
8541	20031018 184013	Stripes or colours
8565	20031020 105319	Missing data, Geolocation, Stripes or colours
8565	20031020 110148	Missing data, Stripes or colours
8602	20031023 010722	Stripes or colours
8679	20031028 095519	Orbit manoeuvre, Missing data, Geolocation, Stripes or colours
8692	20031029 080053	Stripes or colours
8698	20031029 174905	Stripes or colours
8706	20031030 072936	Missing data, Geolocation
8720	20031031 064636	Missing data, Geolocation, Stripes or colours, Repetition lines
8720	20031031 065505	Missing data, Geolocation
8737	20031101 111843	Missing data, Geolocation
8780	20031104 112423	Missing data, Geolocation, Stripes or colours
8935	20031115 071859	Geolocation
9008	20031120 094526	Geolocation
9009	20031120 112134	Missing data, Geolocation
9182	20031202 133502	Missing data, Geolocation, Repetition lines
9182	20031202 134434	Missing data
9273	20031208 222108	Geolocation
9281	20031209 112426	Missing data, Geolocation
9406	20031218 050236	Geolocation
9569	20031229 143211	Stripes or colours

Year 2004:

<orbit> <start_YYYYMMDD> <start_time_hhmmss> <reason>

9665	20040105 072336	Missing data, Geolocation
9691	20040107 025828	Geolocation
9694	20040107 080049	Missing data, Geolocation
9735	20040110 043930	Geolocation
9739	20040110 111846	Missing data, Geolocation
9749	20040111 040740	Geolocation
9782	20040113 112425	Missing data
9878	20040120 042511	Geolocation
9937	20040124 072624	Missing data, Geolocation
9980	20040127 073227	Missing data, Geolocation
10011	20040129 112134	Missing data, Geolocation
10068	20040202 105722	Geolocation
10152	20040208 074154	Missing data, Geolocation
10166	20040209 072404	Missing data, Geolocation
10167	20040209 084809	Repetition lines
10209	20040212 072847	Missing data, Geolocation
10283	20040217 112503	Missing data, Geolocation
10319	20040220 000524	Geolocation
10323	20040220 064142	Missing data
10466	20040301 060648	Missing data, Geolocation, Stripes or colours
10512	20040304 112135	Missing data
10612	20040311 105204	Missing data, Stripes or colours, Repetition lines
10621	20040312 021446	Missing data, Geolocation
10724	20040319 064915	Geolocation
10726	20040319 100710	Missing data, Geolocation
10784	20040323 112426	Missing data, Geolocation, Stripes or colours
10785	20040323 125730	Stripes or colours
10785	20040323 132407	Missing data, Geolocation, Stripes or colours
10786	20040323 144750	Missing data, Geolocation, Stripes or colours
10787	20040323 162339	Missing data, Geolocation, Stripes or colours
10790	20040323 212326	Missing data, Stripes or colours
10882	20040330 074301	Geolocation
10884	20040330 110351	Geolocation
11013	20040408 112057	Missing data, Geolocation
11066	20040412 040207	Missing data, Stripes or colours
11066	20040412 041254	Missing data, Geolocation, Stripes or colours, Repetition lines
11069	20040412 090504	Missing data, Geolocation, Stripes or colours
11069	20040412 091334	Missing data, Geolocation, Stripes or colours
11069	20040412 092236	Geolocation, Stripes or colours
11070	20040412 104739	Stripes or colours
11070	20040412 105132	Geolocation
11079	20040413 020754	Missing data, Geolocation, Stripes or colours, Repetition lines
11082	20040413 070228	Missing data, Geolocation
11083	20040413 083719	Stripes or colours
11084	20040413 101325	Geolocation, Stripes or colours
11084	20040413 102155	Missing data, Stripes or colours
11124	20040416 051835	Missing data, Geolocation, Stripes or colours
11127	20040416 101751	Repetition lines
11242	20040424 111844	Missing data, Geolocation
11286	20040427 131704	Geolocation
11380	20040504 024648	Geolocation
11507	20040512 235655	Geolocation
11514	20040513 112135	Missing data, Geolocation
11628	20040521 101831	Missing data, Geolocation
11671	20040524 103212	Geolocation
11786	20040601 112429	Missing data, Geolocation

12256	20040704 071440	Geolocation
12377	20040712 181045	Geolocation, Stripes or colours
12378	20040712 195052	Geolocation
12441	20040717 052427	Stripes or colours
12460	20040718 134809	Repetition lines
12515	20040722 093714	Geolocation
12515	20040722 093714	Geolocation
12614	20040729 073650	Missing data, Repetition lines
12662	20040801 160502	Geolocation, Repetition lines
12889	20040817 125927	Missing data, Geolocation
13025	20040827 003447	Stripes or colours
13025	20040827 005613	Stripes or colours
13025	20040827 005622	Stripes or colours
13025	20040827 010453	Spectral characterisation, Stripes or colours
13027	20040827 035724	Spectral characterisation, Stripes or colours
13027	20040827 040655	Spectral characterisation, Stripes or colours
13030	20040827 085810	Spectral characterisation, Stripes or colours
13030	20040827 090414	Spectral characterisation, Stripes or colours
13030	20040827 091244	Spectral characterisation, Stripes or colours
13068	20040830 004158	Missing data
13068	20040830 010218	Spectral characterisation, Missing data
13068	20040830 010233	Spectral characterisation, Stripes or colours
13068	20040830 011104	Spectral characterisation, Missing data
13070	20040830 035928	Spectral characterisation, Stripes or colours
13070	20040830 040758	Spectral characterisation, Stripes or colours
13070	20040830 041301	Spectral characterisation, Stripes or colours
13073	20040830 090458	Spectral characterisation, Stripes or colours
13073	20040830 091004	Spectral characterisation, Stripes or colours, Repetition lines
13073	20040830 092240	Spectral characterisation, Stripes or colours
13273	20040913 083652	Missing data, Geolocation
13327	20040917 031619	Geolocation
13360	20040919 101527	Geolocation, Stripes or colours
13387	20040921 073933	Geolocation
13388	20040921 091600	Geolocation
13415	20040923 062905	Missing data, Geolocation, Stripes or colours
13460	20040926 095854	Repetition lines
13489	20040928 103310	Missing data, Geolocation, Stripes or colours
13513	20040930 030454	Geolocation
13674	20041011 090513	Stripes or colours
13914	20041028 032425	Geolocation
14034	20041105 123933	Missing data, Geolocation, Stripes or colours
14073	20041108 055521	Geolocation
14136	20041112 152945	Missing data, Geolocation, Stripes or colours
14137	20041112 173959	Missing data, Geolocation, Stripes or colours
14138	20041112 184709	Geolocation, Stripes or colours
14147	20041113 095206	Geolocation, Repetition lines
14147	20041113 100210	Missing data, Geolocation, Stripes or colours
14149	20041113 132715	Missing data, Geolocation, Stripes or colours
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14167	20041114	195753	Stripes or colours
14176	20041115	103849	Missing data, Geolocation, Stripes or colours
14224	20041118	185833	Stripes or colours
14286	20041123	025702	Missing data, Geolocation, Stripes or colours
14389	20041130	074003	Missing data, Geolocation
14392	20041130	125627	Geolocation
14406	20041201	123021	Missing data
14428	20041203	011859	Missing data, Geolocation, Stripes or colours
14431	20041203	062249	Stripes or colours
14536	20041210	143308	Missing data, Geolocation
14590	20041214	085022	Stripes or colours
14590	20041214	085853	Missing data, Stripes or colours
14601	20041215	031450	Geolocation
14621	20041216	125214	Missing data, Geolocation, Stripes or colours
14664	20041219	125739	Missing data, Geolocation

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14869	20050102	202512	Missing data
14893	20050104	125355	Missing data, Geolocation, Stripes or colours
14977	20050110	093002	Missing data, Repetition lines
15122	20050120	125035	Missing data, Geolocation, Stripes or colours
15165	20050123	125912	Missing data, Geolocation
15186	20050125	000949	Missing data, Stripes or colours
15198	20050125	203854	Stripes or colours
15199	20050125	220008	Stripes or colours
15205	20050126	075154	Repetition lines
15206	20050126	093925	Missing data, Geolocation, Stripes or colours
15207	20050126	111252	Geolocation, Stripes or colours
15209	20050126	143709	Repetition lines
15209	20050126	144641	Stripes or colours
15210	20050126	161028	Repetition lines
15210	20050126	161045	Repetition lines
15210	20050126	161915	Repetition lines
15211	20050126	174906	Repetition lines
15211	20050126	182529	Repetition lines
15213	20050126	213418	Repetition lines
15214	20050126	230813	Repetition lines
15214	20050126	231643	Stripes or colours, Repetition lines
15215	20050127	005102	Repetition lines
15216	20050127	021857	Geolocation, Repetition lines
15216	20050127	022612	Stripes or colours
15216	20050127	024650	Missing data, Repetition lines
15217	20050127	035627	Repetition lines
15217	20050127	040457	Geolocation, Repetition lines
15220	20050127	092933	Missing data, Geolocation, Repetition lines
15221	20050127	104341	Missing data, Stripes or colours, Repetition lines
15224	20050127	155406	Repetition lines
15226	20050127	190706	Missing data
15242	20050128	220734	Missing data, Geolocation
15256	20050129	214128	Geolocation, Stripes or colours
15256	20050129	214958	Stripes or colours
15257	20050129	231535	Missing data, Geolocation, Stripes or colours
15258	20050130	005812	Missing data, Geolocation, Stripes or colours
15263	20050130	091156	Repetition lines
15267	20050130	154911	Missing data, Geolocation, Stripes or colours

15268	20050130	173325	Stripes or colours
15270	20050130	205030	Repetition lines
15271	20050130	223936	Repetition lines
15272	20050131	002515	Stripes or colours, Repetition lines
15272	20050131	003345	Repetition lines
15272	20050131	003519	Repetition lines
15273	20050131	021246	Repetition lines
15273	20050131	022015	Repetition lines
15275	20050131	050648	Missing data, Geolocation, Stripes or colours, Repetition lines
15275	20050131	051518	Stripes or colours
15275	20050131	054120	Repetition lines
15276	20050131	064717	Missing data, Geolocation, Repetition lines
15276	20050131	065548	Missing data, Geolocation, Repetition lines
15276	20050131	070945	Missing data, Stripes or colours, Repetition lines
15278	20050131	101707	Missing data, Geolocation, Stripes or colours, Repetition lines
15282	20050131	172739	Repetition lines
15284	20050131	204513	Repetition lines
15285	20050131	221926	Repetition lines
15285	20050131	222756	Repetition lines
15286	20050131	235405	Missing data
15287	20050201	011724	Repetition lines
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15289	20050201	043459	Repetition lines
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15290	20050201	062411	Geolocation, Stripes or colours, Repetition lines
15290	20050201	063005	Repetition lines
15290	20050201	063524	Repetition lines
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15293	20050201	113115	Stripes or colours, Repetition lines
15294	20050201	125928	Repetition lines
15295	20050201	144848	Geolocation, Repetition lines
15295	20050201	145719	Repetition lines
15295	20050201	150233	Repetition lines
15296	20050201	163056	Missing data, Geolocation, Stripes or colours
15297	20050201	180906	Missing data, Stripes or colours, Repetition lines
15299	20050201	212338	Stripes or colours
15300	20050201	233211	Stripes or colours, Repetition lines
15301	20050202	005122	Geolocation, Stripes or colours
15301	20050202	010250	Missing data, Geolocation, Stripes or colours
15301	20050202	011626	Missing data, Geolocation, Stripes or colours, Repetition lines
15303	20050202	040741	Missing data, Geolocation, Stripes or colours
15306	20050202	091745	Missing data, Geolocation, Stripes or colours
15308	20050202	124215	Repetition lines
15382	20050207	170512	Missing data
15450	20050212	104053	Missing data, Stripes or colours, Repetition lines
15621	20050224	091644	Missing data, Geolocation
15623	20050224	125022	Missing data, Geolocation, Stripes or colours
15663	20050227	073718	Missing data, Geolocation, Stripes or colours
15666	20050227	125807	Missing data, Geolocation
15807	20050309	091129	Repetition lines
15809	20050309	125206	Missing data, Geolocation
15852	20050312	124926	Missing data, Geolocation
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16149	20050402	063822	Geolocation

16161	20050403	025008	Geolocation
16167	20050403	130213	Missing data, Geolocation
16216	20050406	231555	Geolocation
16288	20050411	235102	Stripes or colours
16499	20050426	172550	Missing data, Geolocation
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16538	20050429	104049	Missing data, Geolocation
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16625	20050505	125042	Missing data, Geolocation
16808	20050518	073326	Stripes or colours, Repetition lines
16811	20050518	124220	Missing data, Geolocation
16854	20050521	124753	Missing data, Geolocation
16869	20050522	133308	Missing data, Geolocation, Stripes or colours
16908	20050525	071317	Missing data, Geolocation
16934	20050527	025133	Geolocation
16981	20050530	092501	Missing data, Geolocation
16994	20050531	072759	Missing data, Geolocation
17025	20050602	110943	Missing data, Geolocation
17051	20050604	065136	Missing data, Geolocation
17083	20050606	124506	Missing data, Geolocation
17187	20050613	185639	Geolocation
17283	20050620	115039	Missing data
17312	20050622	124222	Missing data, Geolocation, Stripes or colours
17396	20050628	091617	Missing data, Geolocation, Stripes or colours
17398	20050628	125547	Missing data, Geolocation
17584	20050711	124509	Missing data, Geolocation
17670	20050717	130004	Missing data, Geolocation
17708	20050720	044021	Missing data
17851	20050730	041824	Stripes or colours
17941	20050805	111516	Geolocation
17996	20050809	072450	Geolocation
18034	20050811	232510	Geolocation
18041	20050812	104445	Geolocation
18083	20050815	091612	Geolocation
18282	20050829	065244	Missing data, Geolocation
18282	20050829	070114	Missing data
18283	20050829	083513	Missing data
18364	20050904	004213	Repetition lines
18400	20050906	125539	Geolocation
18408	20050907	021431	Repetition lines
18409	20050907	034435	Missing data
18526	20050915	081542	Missing data, Geolocation, Stripes or colours
18543	20050916	124801	Missing data, Geolocation
18586	20050919	125433	Missing data, Geolocation
18598	20050920	083731	Stripes or colours
18642	20050923	102052	Missing data, Geolocation
18672	20050925	130011	Missing data, Geolocation
18684	20050926	084505	Geolocation, Stripes or colours
18685	20050926	102442	Stripes or colours
18687	20050926	134459	Missing data, Geolocation, Stripes or colours
18698	20050927	081156	Stripes or colours
18786	20051003	114845	Missing data
18790	20051003	183103	Geolocation
18808	20051005	004337	Repetition lines
18812	20051005	073744	Stripes or colours
18884	20051010	080833	Repetition lines
19040	20051021	054857	Geolocation
19043	20051021	104047	Missing data, Geolocation
19070	20051023	080018	Repetition lines

19099	20051025	084603	Stripes or colours
19127	20051027	073707	Missing data, Repetition lines
19244	20051104	114235	Missing data, Geolocation
19253	20051105	025811	Geolocation
19316	20051109	124132	Missing data, Geolocation
19374	20051113	135533	Missing data
19481	20051121	011816	Stripes or colours
19564	20051126	204829	Missing data, Stripes or colours
19600	20051129	084857	Missing data, Geolocation, Stripes or colours
19628	20051201	073637	Missing data, Stripes or colours
19628	20051201	074507	Missing data, Stripes or colours
19674	20051204	125948	Missing data, Geolocation
19817	20051214	124213	Missing data, Geolocation
19903	20051220	125537	Missing data, Geolocation, Stripes or colours
19985	20051226	061718	Missing data, Geolocation
20015	20051228	083807	Missing data, Geolocation, Stripes or colours
20040	20051230	023804	Geolocation

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20404	20060124	125532	Geolocation
20404	20060124	125615	Missing data, Geolocation, Stripes or colours
20528	20060202	044037	Geolocation
20644	20060210	071254	Geolocation
20674	20060212	092215	Geolocation
20726	20060216	004739	Geolocation, Stripes or colours
20748	20060217	135105	Missing data
20748	20060217	135118	Stripes or colours
20789	20060220	104353	Stripes or colours
20817	20060222	090944	Repetition lines
20817	20060222	090944	Repetition lines
20855	20060225	011257	Geolocation
21017	20060308	082657	Missing data
21017	20060308	083526	Missing data, Stripes or colours
21017	20060308	083528	Missing data
21032	20060309	093625	Missing data, Repetition lines
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21032	20060309	094456	Stripes or colours
21046	20060310	090508	Missing data
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21288	20060327	065034	Missing data, Geolocation, Repetition lines
21400	20060404	024640	Geolocation
21477	20060409	113533	Missing data, Geolocation, Stripes or colours
21527	20060412	235541	Geolocation
21635	20060420	125331	Missing data, Geolocation
21678	20060423	125943	Missing data, Geolocation
21789	20060501	070904	Geolocation
21904	20060509	075033	Missing data, Geolocation
21905	20060509	091929	Missing data
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22061	20060520	065307	Geolocation
22076	20060521	080003	Repetition lines
22144	20060526	022520	Missing data
22179	20060528	125946	Missing data, Geolocation, Stripes or colours

22262	20060603 080438	Geolocation
22286	20060605 002946	Geolocation
22319	20060607 073625	Geolocation
22448	20060616 074405	Repetition lines
22450	20060616 110320	Repetition lines
22515	20060621 002804	Geolocation
22569	20060624 183929	Geolocation
22601	20060627 003752	Geolocation
22650	20060630 101901	Geolocation
22680	20060702 130212	Geolocation
22734	20060706 072118	Missing data
22737	20060706 123536	Missing data
22806	20060711 075720	Repetition lines
22820	20060712 073630	Missing data, Geolocation
22866	20060715 125052	Geolocation
23008	20060725 103315	Stripes or colours
23095	20060731 124506	Missing data
23107	20060801 084931	Missing data, Geolocation
23169	20060805 164055	Geolocation
23174	20060806 012146	Geolocation
23181	20060806 130213	Missing data
23192	20060807 071835	Geolocation
23309	20060815 111102	Stripes or colours
23324	20060816 124218	Missing data, Geolocation, Stripes or colours
23367	20060819 125050	Missing data, Geolocation, Stripes or colours
23395	20060821 112802	Geolocation
23398	20060821 163804	Geolocation
23410	20060822 125808	Missing data, Geolocation
23466	20060826 102923	Missing data, Geolocation
23507	20060829 073233	Missing data, Geolocation
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23779	20060917 071919	Missing data, Geolocation, Stripes or colours, Repetition lines
23779	20060917 072749	Missing data, Geolocation, Stripes or colours
23783	20060917 141427	Missing data, Geolocation, Stripes or colours
23796	20060918 114430	Stripes or colours
23822	20060920 073725	Missing data
23822	20060920 074555	Missing data, Stripes or colours
23868	20060923 125347	Missing data, Geolocation
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23964	20060930 052455	Stripes or colours
23991	20061002 025929	Missing data, Geolocation, Stripes or colours
23991	20061002 041559	Missing data
24123	20061011 080736	Missing data
24137	20061012 073620	Missing data, Geolocation
24282	20061022 104202	Missing data, Geolocation, Stripes or colours
24352	20061027 082030	Stripes or colours
24354	20061027 112722	Missing data
24366	20061028 074956	Missing data, Geolocation
24380	20061029 071524	Missing data, Geolocation
24409	20061031 075233	Missing data, Geolocation, Stripes or colours
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24422	20061101 055813	Missing data
24466	20061104 072656	Missing data, Geolocation
24552	20061110 073615	Missing data
24583	20061112 112720	Missing data, Geolocation
24611	20061114 105153	Stripes or colours
24638	20061116 074933	Missing data, Geolocation
24736	20061123 041845	Missing data

24781	20061126 072213	Spectral characterisation, Stripes or colours
24781	20061126 073044	Spectral characterisation, Stripes or colours
24781	20061126 073457	Spectral characterisation, Stripes or colours
24781	20061126 073718	Spectral characterisation, Missing data, Stripes or colours
24781	20061126 074525	Spectral characterisation, Stripes or colours
24782	20061126 090032	O2A campaign, Stripes or colours
24782	20061126 090215	O2A campaign, Stripes or colours
24782	20061126 090227	O2A campaign, Stripes or colours
24782	20061126 091006	O2A campaign, Stripes or colours
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24783	20061126 105431	O2A campaign, Stripes or colours
24783	20061126 111133	O2A campaign, Stripes or colours
24783	20061126 112004	O2A campaign, Stripes or colours
24809	20061128 062513	Geolocation
24839	20061130 083818	Geolocation
24840	20061130 101516	Geolocation
24867	20061202 074228	Geolocation
24867	20061202 074313	Missing data
24910	20061205 075727	Missing data, Geolocation
24939	20061207 081549	Stripes or colours
24953	20061208 075434	Missing data
24953	20061208 080304	Missing data, Stripes or colours
24991	20061210 235155	Geolocation
25108	20061219 034500	Geolocation
25137	20061221 041354	Geolocation
25153	20061222 072110	Missing data, Geolocation
25194	20061225 035623	Geolocation
25268	20061230 080316	Missing data, Geolocation, Stripes or colours
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25454	20070112 075436		Missing data, Geolocation
25454	20070112 080306		Missing data, Stripes or colours
25497	20070115 080021		Missing data
25540	20070118 080352		Geolocation
25540	20070118 080605		Missing data
25583	20070121 081144		Missing data
25583	20070121 081149		Missing data
25597	20070122 074012		Missing data
25613	20070123 101734		Orbit manoeuvre, Stripes or colours
25656	20070126 102326		Stripes or colours
25740	20070201 072247		Geolocation
25769	20070203 080313		Missing data
25773	20070203 144340		Missing data, Geolocation
25783	20070204 073136		Missing data
25798	20070205 082943		Stripes or colours, Repetition lines
25798	20070205 082953		Stripes or colours, Repetition lines
25826	20070207 073722		Missing data, Geolocation
25869	20070210 074959		Stripes or colours

25971	20070217	104032	Missing data, Stripes or colours, Repetition lines
26092	20070225	214723	Stripes or colours
26168	20070303	045036	Missing data
26199	20070305	085209	Stripes or colours
26200	20070305	103023	Stripes or colours
26200	20070305	103035	Stripes or colours
26215	20070306	114134	Geolocation
26361	20070316	162958	Geolocation
26413	20070320	074624	Repetition lines
26542	20070329	074944	Stripes or colours
26558	20070330	105219	Geolocation
26628	20070404	081353	Stripes or colours
26629	20070404	100041	Missing data
26715	20070410	095547	Stripes or colours
26715	20070410	095559	Stripes or colours
26743	20070412	085319	Geolocation
26757	20070413	083512	Stripes or colours
26758	20070413	100150	Stripes or colours, Repetition lines
26758	20070413	100203	Stripes or colours, Repetition lines
26801	20070416	100732	Geolocation, Stripes or colours, Repetition lines
26801	20070416	100745	Geolocation, Stripes or colours, Repetition lines
26815	20070417	093753	Stripes or colours
26844	20070419	102040	Geolocation
26886	20070422	083629	Stripes or colours
26888	20070422	121731	Stripes or colours
26928	20070425	070531	Stripes or colours
26945	20070426	113556	Stripes or colours
26972	20070428	084748	Stripes or colours
26973	20070428	102724	Stripes or colours
27000	20070430	074544	Stripes or colours
27000	20070430	080828	Missing data, Geolocation, Stripes or colours
27002	20070430	110416	Stripes or colours
27017	20070501	121239	Missing data, Geolocation, Stripes or colours
27018	20070501	134722	Stripes or colours
27028	20070502	063713	Stripes or colours
27029	20070502	081950	Missing data, Stripes or colours
27029	20070502	083602	Geolocation
27031	20070502	114133	Stripes or colours
27033	20070502	145926	Missing data, Geolocation, Stripes or colours
27043	20070503	075123	Missing data, Geolocation, Stripes or colours
27043	20070503	081229	Geolocation, Stripes or colours
27045	20070503	110727	Missing data, Stripes or colours
27058	20070504	085501	Geolocation
27062	20070504	153609	Stripes or colours
27086	20070506	082343	Stripes or colours
27087	20070506	093549	Geolocation
27100	20070507	072749	Geolocation
27100	20070507	072750	Missing data, Geolocation, Stripes or colours
27101	20070507	090454	Stripes or colours
27106	20070507	173156	Geolocation, Stripes or colours, Repetition lines
27134	20070509	163020	Missing data
27297	20070521	013433	Geolocation
27297	20070521	014302	Geolocation
27297	20070521	015132	Geolocation
27474	20070602	103017	Geolocation, Stripes or colours
27619	20070612	135614	Missing data, Geolocation
27774	20070623	092458	Geolocation
27818	20070626	111737	Stripes or colours
27818	20070626	111737	Stripes or colours

27972	20070707 052419	Stripes or colours
27972	20070707 052419	Stripes or colours
28232	20070725 092426	Geolocation
28329	20070801 040807	Stripes or colours
28632	20070822 080530	Stripes or colours
28769	20070831 214455	Geolocation
28769	20070831 221240	Geolocation
28775	20070901 075319	Geolocation
28781	20070901 175732	Stripes or colours
28918	20070911 074432	Geolocation
29034	20070919 100731	Repetition lines
29335	20071010 111607	Stripes or colours
29419	20071016 074701	Stripes or colours
29705	20071105 071544	Geolocation
29964	20071123 093239	Stripes or colours
29979	20071124 110340	Stripes or colours
29992	20071125 083058	Repetition lines
30038	20071128 134510	Stripes or colours
30063	20071130 073110	Geolocation
30131	20071205 013618	Geolocation
30132	20071205 031517	Geolocation
30132	20071205 031517	Geolocation
30134	20071205 064355	Geolocation
30136	20071205 094642	Geolocation
30136	20071205 094658	Geolocation
30236	20071212 092635	Stripes or colours
30289	20071216 023634	Stripes or colours
30339	20071219 142720	Stripes or colours

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30564	20080104 074156	Stripes or colours
30623	20080108 101839	Repetition lines
30677	20080112 045929	Geolocation
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30682	20080112 131459	Missing data
30938	20080130 103525	Stripes or colours
30940	20080130 134809	Missing data, Stripes or colours
31057	20080207 175811	Geolocation, Stripes or colours
31093	20080210 062635	Stripes or colours
31099	20080210 162321	Missing data, Geolocation
31412	20080303 131144	Stripes or colours
31571	20080314 154813	Missing data, Stripes or colours
31653	20080320 091542	Stripes or colours
31700	20080323 160358	Stripes or colours
31714	20080324 153404	Stripes or colours
31766	20080328 065329	Stripes or colours
31787	20080329 175538	Geolocation, Repetition lines
31800	20080330 154445	Geolocation
31939	20080409 084707	Repetition lines
31982	20080412 084855	Stripes or colours
32059	20080417 175827	Geolocation
32130	20080422 170727	Stripes or colours
32245	20080430 175008	Stripes or colours
32301	20080504 154529	Stripes or colours
32316	20080505 165248	Missing data
32359	20080508 165837	Stripes or colours
32459	20080515 163143	Stripes or colours
32473	20080516 160046	Geolocation, Stripes or colours

32474	20080516	173945	Geolocation
32475	20080516	191930	Missing data, Stripes or colours
32489	20080517	185702	Stripes or colours
32502	20080518	163722	Geolocation, Stripes or colours
32503	20080518	182540	Stripes or colours
32504	20080518	195639	Stripes or colours
32518	20080519	192513	Missing data, Stripes or colours
32531	20080520	171556	Geolocation
32532	20080520	190244	Stripes or colours
32545	20080521	164301	Stripes or colours
32560	20080522	175112	Stripes or colours
32561	20080522	193950	Stripes or colours
32573	20080523	154830	Stripes or colours
32574	20080523	171951	Stripes or colours
32574	20080523	172846	Stripes or colours
32575	20080523	185931	Stripes or colours
32575	20080523	190825	Stripes or colours
32587	20080524	151008	Stripes or colours
32588	20080524	164840	Stripes or colours
32603	20080525	180544	Geolocation, Stripes or colours
32604	20080525	193639	Stripes or colours
32604	20080525	194532	Stripes or colours
32616	20080526	154643	Missing data, Stripes or colours
32618	20080526	190514	Stripes or colours
32630	20080527	151548	Stripes or colours
32644	20080528	145338	Stripes or colours
32646	20080528	181241	Stripes or colours
32672	20080530	134323	Stripes or colours
32687	20080531	145021	Geolocation, Stripes or colours
32703	20080601	174706	Stripes or colours
32704	20080601	192702	Stripes or colours
32715	20080602	134852	Stripes or colours
32715	20080602	135746	Stripes or colours, Repetition lines
32716	20080602	152710	Stripes or colours
32730	20080603	145559	Stripes or colours
32732	20080603	182405	Stripes or colours
32733	20080603	195406	Stripes or colours
32744	20080604	142503	Stripes or colours
32745	20080604	160411	Geolocation
32746	20080604	174435	Geolocation, Stripes or colours
32747	20080604	193159	Repetition lines
32760	20080605	172133	Stripes or colours
32774	20080606	165018	Stripes or colours
32787	20080607	143039	Geolocation, Stripes or colours
32787	20080607	143935	Stripes or colours
32798	20080608	090750	Repetition lines
32818	20080609	183533	Geolocation, Stripes or colours
32832	20080610	180412	Stripes or colours
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32858	20080612	133513	Stripes or colours
32859	20080612	151335	Missing data, Stripes or colours
32860	20080612	170148	Stripes or colours
32874	20080613	162855	Stripes or colours, Repetition lines
32889	20080614	173837	Stripes or colours
32890	20080614	191828	Stripes or colours
32891	20080614	205029	Stripes or colours
32903	20080615	170728	Stripes or colours
32904	20080615	184659	Stripes or colours
32915	20080616	131138	Missing data, Stripes or colours

32916	20080616	144733	Stripes or colours
32933	20080617	191402	Stripes or colours
32944	20080618	134609	Geolocation
32960	20080619	164143	Stripes or colours
32974	20080620	160045	Stripes or colours
33001	20080622	132150	Stripes or colours
33002	20080622	145850	Geolocation, Stripes or colours
33019	20080623	193540	Stripes or colours
33031	20080624	153542	Stripes or colours
33032	20080624	171530	Missing data
33032	20080624	172400	Missing data
33089	20080628	165003	Stripes or colours
33217	20080707	152811	Stripes or colours
33303	20080713	153935	Geolocation
33404	20080720	165835	Missing data
33562	20080731	175254	Stripes or colours
33562	20080731	175254	Stripes or colours
33716	20080811	120915	Stripes or colours
33752	20080814	004626	Geolocation
33791	20080816	174937	Missing data
33804	20080817	153934	Missing data, Stripes or colours
33820	20080818	183530	Stripes or colours
33850	20080820	204529	Missing data, Geolocation, Stripes or colours, Repetition lines
33850	20080820	204529	Missing data, Geolocation, Stripes or colours, Repetition lines
33875	20080822	144300	Stripes or colours
33991	20080830	170950	Missing data, Geolocation, Stripes or colours
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34063	20080904	175224	Missing data, Geolocation, Stripes or colours
34064	20080904	194123	Repetition lines
34090	20080906	151109	Missing data, Geolocation
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34136	20080909	201548	Stripes or colours
34147	20080910	144546	Stripes or colours
34219	20080915	152810	Missing data, Geolocation
34219	20080915	152810	Missing data, Geolocation
34220	20080915	172008	Repetition lines
34233	20080916	145707	Stripes or colours
34276	20080919	150243	Stripes or colours
34305	20080921	153934	Missing data, Stripes or colours
34505	20081005	145953	Stripes or colours
34517	20081006	110842	Repetition lines
34564	20081009	175319	Missing data, Stripes or colours
34577	20081010	154224	Missing data, Stripes or colours
34620	20081013	154806	Stripes or colours
34625	20081014	003642	Geolocation
34720	20081020	152812	Geolocation, Stripes or colours
34806	20081026	153956	Stripes or colours
34806	20081026	153956	Missing data, Stripes or colours
34862	20081030	135816	Missing data, Repetition lines
34959	20081106	081559	Repetition lines
34973	20081107	074420	Repetition lines
34992	20081108	153239	Stripes or colours
35065	20081113	175639	Missing data, Stripes or colours, Repetition lines
35074	20081114	090542	Repetition lines
35088	20081115	083344	Repetition lines
35089	20081115	101212	Repetition lines
35102	20081116	075942	Repetition lines
35102	20081116	080812	Repetition lines
35103	20081116	094112	Repetition lines

35103	20081116 094943	Repetition lines
35104	20081116 112042	Repetition lines
35116	20081117 073031	Repetition lines
35117	20081117 091824	Repetition lines
35161	20081120 105442	Repetition lines
35175	20081121 102327	Repetition lines
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35188	20081122 081059	Repetition lines
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35190	20081122 113252	Repetition lines
35203	20081123 092833	Repetition lines
35204	20081123 110032	Repetition lines
35221	20081124 153055	Geolocation
35231	20081125 081921	Repetition lines
35232	20081125 095816	Repetition lines
35236	20081125 163959	Stripes or colours
35245	20081126 074812	Repetition lines
35246	20081126 092659	Repetition lines
35290	20081129 111222	Repetition lines
35301	20081130 053912	Repetition lines
35307	20081130 154245	Stripes or colours
35317	20081201 083056	Repetition lines
35318	20081201 100938	Repetition lines
35321	20081201 151118	Missing data, Geolocation, Stripes or colours
35321	20081201 151948	Missing data, Stripes or colours
35331	20081202 075930	Repetition lines
35332	20081202 093823	Repetition lines
35333	20081202 111820	Stripes or colours, Repetition lines
35361	20081204 101505	Repetition lines
35361	20081204 101505	Repetition lines
35363	20081204 140025	Stripes or colours
35375	20081205 094405	Repetition lines
35404	20081207 102059	Repetition lines
35417	20081208 081756	Repetition lines
35447	20081210 102654	Repetition lines
35460	20081211 081632	Repetition lines
35460	20081211 082441	Repetition lines
35461	20081211 095520	Repetition lines
35488	20081213 071149	Spectral/ non-nominal campaign, Stripes or colours
35488	20081213 072019	Spectral/ non-nominal campaign, Stripes or colours
35488	20081213 072849	Spectral/ non-nominal campaign, Stripes or colours
35488	20081213 073720	Spectral/ non-nominal campaign, Stripes or colours
35489	20081213 085221	Spectral/ non-nominal campaign, Stripes or colours
35489	20081213 085226	Spectral/ non-nominal campaign, Stripes or colours
35489	20081213 085307	Spectral/ non-nominal campaign, Stripes or colours
35489	20081213 090056	Spectral/ non-nominal campaign, Stripes or colours
35489	20081213 090927	Spectral/ non-nominal campaign, Stripes or colours
35489	20081213 091021	Spectral/ non-nominal campaign, Stripes or colours
35490	20081213 103230	Spectral/ non-nominal campaign, Stripes or colours
35490	20081213 103244	Stripes or colours
35493	20081213 153438	Geolocation, Stripes or colours
35517	20081215 075103	Repetition lines
35519	20081215 111021	Repetition lines
35546	20081217 082728	Repetition lines
35546	20081217 083558	Repetition lines
35547	20081217 100658	Repetition lines
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35566	20081218	175831	Missing data, Stripes or colours
35589	20081220	083346	Repetition lines
35590	20081220	101543	Repetition lines
35603	20081221	080453	Repetition lines
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35759	20090101	054237	Missing data, Geolocation
35760	20090101	071442	Geolocation
35760	20090101	072311	Geolocation
35760	20090101	073142	Stripes or colours
35793	20090103	143422	Stripes or colours
35795	20090103	175534	Missing data
35808	20090104	154314	Missing data, Stripes or colours
35893	20090110	141358	Stripes or colours
35994	20090117	153407	Missing data, Stripes or colours
36067	20090122	175724	Stripes or colours, Repetition lines
36134	20090127	102821	Orbit manoeuvre
36134	20090127	112013	Geolocation
36134	20090127	112843	Geolocation
36134	20090127	113712	Geolocation, Stripes or colours
36244	20090204	024539	Repetition lines
36244	20090204	025408	Repetition lines
36266	20090205	153530	Stripes or colours
36309	20090208	154045	Missing data, Stripes or colours, Repetition lines
36339	20090210	175833	Missing data
36365	20090212	133713	Missing data, Stripes or colours
36366	20090212	151433	Missing data, Geolocation, Stripes or colours
36366	20090212	152303	Missing data, Geolocation, Stripes or colours
36366	20090212	152326	Missing data, Geolocation, Stripes or colours
36438	20090217	155711	Stripes or colours
36568	20090226	175401	Missing data, Stripes or colours
36754	20090311	174354	Stripes or colours
36810	20090315	153933	Missing data, Stripes or colours
36996	20090328	153058	Geolocation, Stripes or colours
37019	20090330	060141	Stripes or colours
37022	20090330	110839	Stripes or colours
37069	20090402	175221	Geolocation, Stripes or colours
37255	20090415	174351	Stripes or colours
37268	20090416	153349	Stripes or colours
37311	20090419	153931	Missing data, Stripes or colours
37311	20090419	153932	Missing data, Stripes or colours
37398	20090425	172529	Stripes or colours
37435	20090428	073555	Geolocation, Stripes or colours
37435	20090428	075254	Missing data, Stripes or colours
37468	20090430	144724	Stripes or colours
37497	20090502	153101	Stripes or colours
37570	20090507	175225	Missing data
37626	20090511	154805	Stripes or colours
37638	20090512	121219	Stripes or colours
37698	20090516	163101	Missing data, Stripes or colours
37756	20090520	174353	Stripes or colours

37759	20090520 223910	Stripes or colours
37812	20090524 153933	Missing data, Stripes or colours
37841	20090526 161640	Stripes or colours
38041	20090609 153828	Geolocation
38041	20090609 154658	Missing data, Geolocation, Stripes or colours
38041	20090609 154721	Geolocation
38071	20090611 175227	Stripes or colours
38109	20090614 093845	Stripes or colours
38128	20090615 173547	Missing data
38227	20090622 152813	Stripes or colours
38243	20090623 181513	Stripes or colours
38252	20090624 092418	Stripes or colours
38257	20090624 174355	Repetition lines
38267	20090625 102930	Spectral/ non-nominal campaign, Stripes or colours
38267	20090625 103800	Spectral/ non-nominal campaign, Stripes or colours
38267	20090625 104629	Spectral/ non-nominal campaign, Stripes or colours
38295	20090627 093404	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38313	20090628 153935	Stripes or colours
38325	20090629 120359	Geolocation
38338	20090630 093941	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38343	20090630 174729	Missing data, Stripes or colours, Repetition lines
38343	20090630 175145	Repetition lines
38381	20090703 094545	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38410	20090705 101413	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38410	20090705 102242	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38427	20090706 144047	Stripes or colours
38451	20090708 070738	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38451	20090708 071607	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38451	20090708 072437	Stripes or colours
38453	20090708 102848	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38453	20090708 103718	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38466	20090709 081632	Stripes or colours
38483	20090710 125844	Missing data
38572	20090716 175227	Geolocation, Stripes or colours
38628	20090720 154807	Stripes or colours
38698	20090725 130358	Stripes or colours
38753	20090729 092418	Geolocation, Stripes or colours
38814	20090802 153935	Missing data
38814	20090802 154841	Stripes or colours
39228	20090809 101717	Geolocation
38911	20090809 102942	Geolocation
38981	20090814 075141	Repetition lines
38999	20090815 135310	Missing data
39000	20090815 153102	Stripes or colours
39039	20090818 090102	Missing data
39073	20090820 175227	Missing data, Stripes or colours
39124	20090824 073015	Stripes or colours
39179	20090828 034511	Stripes or colours
39229	20090831 152812	Stripes or colours
39259	20090902 174353	Missing data, Geolocation
39298	20090905 111131	Stripes or colours
39315	20090906 153934	Stripes or colours
39431	20090914 180638	Geolocation
39432	20090914 194652	Geolocation
39482	20090918 074342	Stripes or colours
39501	20090919 153058	Stripes or colours
39574	20090924 175222	Missing data
39584	20090925 104316	Missing data, Stripes or colours, Repetition lines
39598	20090926 101014	Missing data, Geolocation, Stripes or colours, Repetition lines

39598	20090926	101843	Stripes or colours
39609	20090927	045018	Geolocation
39611	20090927	075953	Missing data, Geolocation, Repetition lines
39611	20090927	080119	Missing data, Geolocation, Stripes or colours, Repetition lines
39611	20090927	080156	Missing data, Geolocation, Stripes or colours, Repetition lines
39611	20090927	080314	Stripes or colours
39611	20090927	080440	Missing data, Geolocation, Stripes or colours
39644	20090929	151646	Geolocation
39688	20091002	170118	Stripes or colours
39688	20091002	172055	Repetition lines
39701	20091003	145107	Geolocation
39717	20091004	174638	Stripes or colours
39760	20091007	174409	Stripes or colours
39816	20091011	153929	Stripes or colours
39823	20091012	032434	Geolocation
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39942	20091020	105559	Geolocation
39942	20091020	105708	Geolocation
39942	20091020	105852	Geolocation
39942	20091020	110537	Geolocation
39969	20091022	081629	Stripes or colours
40069	20091029	075133	Stripes or colours
40071	20091029	111417	Stripes or colours
40075	20091029	175500	Stripes or colours
40202	20091107	145258	Stripes or colours
40285	20091113	100354	Stripes or colours
40317	20091115	154140	Missing data, Geolocation
40617	20091206	144249	Stripes or colours
40661	20091209	162907	Stripes or colours
40719	20091213	174400	Missing data
40818	20091220	154326	Geolocation
40917	20091227	134253	Missing data, Stripes or colours
40972	20091231	095523	Stripes or colours

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41133	20100111	155147	Missing data, Geolocation
41172	20100114	091450	Geolocation
41196	20100116	014709	Stripes or colours
41233	20100118	153103	Missing data, Geolocation
41319	20100124	154210	Stripes or colours
41334	20100125	165057	Missing data
41340	20100126	030434	Geolocation
41578	20100211	175524	Missing data, Stripes or colours
41591	20100212	154310	Missing data, Stripes or colours
41593	20100212	190407	Missing data
41777	20100225	153345	Stripes or colours
41820	20100228	153927	Stripes or colours
41837	20100301	200810	Stripes or colours
41977	20100311	145408	Stripes or colours
42017	20100314	100124	Geolocation
42021	20100314	163831	Missing data
42021	20100314	164726	Missing data
42030	20100315	074744	Geolocation
42030	20100315	074759	Geolocation
42030	20100315	075614	Geolocation, Stripes or colours

42079	20100318	175209	Missing data, Stripes or colours
42174	20100325	092058	Repetition lines
42234	20100329	135022	Stripes or colours
42260	20100331	092410	Stripes or colours
42264	20100331	160508	Missing data, Stripes or colours
42292	20100402	150236	Stripes or colours
42302	20100403	075947	Geolocation
42304	20100403	111124	Geolocation
42306	20100403	143141	Missing data, Stripes or colours, Repetition lines
42308	20100403	174918	Missing data
42321	20100404	153927	Geolocation
42350	20100406	161634	Missing data, Stripes or colours
42364	20100407	154508	Stripes or colours
42389	20100409	094127	Stripes or colours
42418	20100411	101200	Stripes or colours
42494	20100416	174044	Stripes or colours
42580	20100422	175206	Missing data, Stripes or colours
42646	20100427	083627	Geolocation
42660	20100428	081339	Geolocation
42718	20100502	092749	Geolocation
42733	20100503	102728	Geolocation
42736	20100503	152803	Geolocation
42779	20100506	153343	Missing data, Stripes or colours
42822	20100509	153925	Missing data, Stripes or colours
42847	20100511	093544	Stripes or colours
42847	20100511	094414	Missing data, Stripes or colours
42908	20100515	155048	Stripes or colours
42979	20100520	145421	Repetition lines
43077	20100527	111412	Stripes or colours
43081	20100527	175207	Stripes or colours
43119	20100530	093835	Stripes or colours
43182	20100603	191206	Stripes or colours
43220	20100606	110026	Stripes or colours
43237	20100607	152804	Stripes or colours
43319	20100613	090119	Stripes or colours
43334	20100614	100722	Repetition lines
43353	20100615	180353	Missing data, Stripes or colours
43412	20100619	205115	Missing data, Stripes or colours
43421	20100620	115015	Stripes or colours
43490	20100625	074614	Geolocation, Stripes or colours
43492	20100625	110250	Stripes or colours
43509	20100626	153053	Stripes or colours
43578	20100701	111412	Stripes or colours
43582	20100701	175207	Stripes or colours
43583	20100701	193212	Missing data
43595	20100702	154214	Missing data, Geolocation, Repetition lines
43606	20100703	100208	Geolocation
43620	20100704	093834	Stripes or colours
43738	20100712	152804	Stripes or colours
43754	20100713	181456	Geolocation
43764	20100714	110543	Stripes or colours
43766	20100714	143500	Stripes or colours
43807	20100717	111124	Stripes or colours
43823	20100718	140113	Stripes or colours
43866	20100721	141511	Stripes or colours
43866	20100721	141538	Stripes or colours, Repetition lines
43867	20100721	155338	Repetition lines
43880	20100722	133706	Missing data, Stripes or colours, Repetition lines
43881	20100722	151354	Stripes or colours

43892	20100723	094126	Stripes or colours
43938	20100726	145724	Stripes or colours
43991	20100730	074456	Stripes or colours, Repetition lines
43997	20100730	174046	Geolocation
44006	20100731	085918	Geolocation
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6 - MER_FRS_1P products removed from dissemination server (n = 1263 +193 (replaced) = 1456, exact and fully included duplicates, blank and short)

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Remark: List is partially redundant, since it contains 193 removed products, which have been replaced (see list 5).

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 MER_FRS_1PPEPA20110802_121005_000005123105_00124_49276_2000.N1
 MER_FRS_1PPEPA20110802_121835_000005123105_00124_49276_2001.N1
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 MER_FRS_1PPEPA20111018_100612_000000053107_00367_50381_6409.N1
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 MER_FRS_1PPEPA20111118_143523_000000023108_00384_50829_7967.N1
 MER_FRS_1PPEPA20111120_021448_000000023108_00405_50850_8032.N1
 MER_FRS_1PPEPA20111126_063744_000000253109_00063_50939_8303.N1
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 MER_FRS_1PPEPA20111129_080807_000000473109_00107_50983_8440.N1
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 MER_FRS_1PPEPA20111201_113827_000003803109_00138_51014_8535.N1
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 MER_FRS_1PPEPA20111212_002904_000000023109_00289_51165_8967.N1
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 MER_FRS_1PPEPA20120110_084648_000004613110_00280_51587_6327.N1
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 MER_FRS_1PPEPA20120126_180010_000000053111_00084_51822_7057.N1
 MER_FRS_1PPEPA20120128_112804_000005123111_00109_51847_7149.N1
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7 - MER_FRS_1P products during special events, such as Calibration, Spectral characterisation or Orbit manoeuvre (n = 74)


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Remarks:

1. Only orbit 36134 has been segregated due to a special event only, an orbit manoeuvre.
2. All other products were already categorised as segregated by any other reason, i. e. missing data, geolocation and stripes or colours, or were corrupt due to an obvious error, such as short, blank or duplicate.

<Orbit>	<start_YYYYMMDD>	<start_time_hhmmss>	<reason>
5660	20030331	120231	Calibration, Stripes or colours
7766	20030825	151552	Spectral characterisation, Stripes or colours
7767	20030825	165640	Spectral characterisation, Stripes or colours
7769	20030825	201040	Spectral characterisation, Stripes or colours
7771	20030825	235121	Spectral characterisation, Stripes or colours
7775	20030826	061845	Spectral characterisation, Stripes or colours
7775	20030826	062714	Spectral characterisation, Stripes or colours
7775	20030826	062907	Spectral characterisation, Stripes or colours
7775	20030826	063609	Spectral characterisation, Stripes or colours
7776	20030826	075659	Spectral characterisation, Stripes or colours
7776	20030826	080528	Spectral characterisation, Stripes or colours
7776	20030826	081530	Spectral characterisation, Stripes or colours
7777	20030826	094608	Spectral characterisation, Stripes or colours
8679	20031028	095519	Orbit manoeuvre, Missing data, Geolocation, Stripes or colours
8679	20031028	095519	Orbit manoeuvre, Duplicate, Missing data, Geolocation, Cosmetic
13025	20040827	010453	Spectral characterisation, Stripes or colours
13027	20040827	035724	Spectral characterisation, Stripes or colours
13027	20040827	040655	Spectral characterisation, Stripes or colours
13030	20040827	085810	Spectral characterisation, Stripes or colours
13030	20040827	090414	Spectral characterisation, Stripes or colours
13030	20040827	091244	Spectral characterisation, Stripes or colours
13068	20040830	010218	Spectral characterisation, Missing data
13068	20040830	010233	Spectral characterisation, Stripes or colours
13068	20040830	011104	Spectral characterisation, Missing data
13070	20040830	035928	Spectral characterisation, Stripes or colours
13070	20040830	040758	Spectral characterisation, Stripes or colours
13070	20040830	041301	Spectral characterisation, Stripes or colours
13073	20040830	090458	Spectral characterisation, Stripes or colours
13073	20040830	091004	Spectral characterisation, Stripes or colours, Cosmetic
13073	20040830	092240	Spectral characterisation, Stripes or colours
24781	20061126	072213	Spectral characterisation, Stripes or colours
24781	20061126	073044	Spectral characterisation, Stripes or colours
24781	20061126	073457	Spectral characterisation, Stripes or colours
24781	20061126	073718	Spectral characterisation, Missing data, Stripes or colours
24781	20061126	073718	Spectral characterisation, Duplicate, Stripes or colours
24781	20061126	074525	Spectral characterisation, Stripes or colours
24782	20061126	090032	O2A campaign, Stripes or colours
24782	20061126	090215	O2A campaign, Stripes or colours
24782	20061126	090227	O2A campaign, Stripes or colours
24782	20061126	091006	O2A campaign, Stripes or colours
24782	20061126	091836	O2A campaign, Stripes or colours
24782	20061126	091941	O2A campaign, Stripes or colours
24783	20061126	104057	O2A campaign, Stripes or colours
24783	20061126	104109	O2A campaign, Stripes or colours
24783	20061126	104147	O2A campaign, Stripes or colours
24783	20061126	105017	O2A campaign, Stripes or colours
24783	20061126	105431	O2A campaign, Stripes or colours

24783	20061126 111133	O2A campaign, Stripes or colours
24783	20061126 112004	O2A campaign, Stripes or colours
25613	20070123 101734	Orbit manoeuvre, Stripes or colours
35488	20081213 071149	Spectral/ non-nominal campaign, Stripes or colours
35488	20081213 072019	Spectral/ non-nominal campaign, Stripes or colours
35488	20081213 072849	Spectral/ non-nominal campaign, Stripes or colours
35488	20081213 073720	Spectral/ non-nominal campaign, Stripes or colours
35489	20081213 085221	Spectral/ non-nominal campaign, Stripes or colours
35489	20081213 085226	Spectral/ non-nominal campaign, Stripes or colours
35489	20081213 085307	Spectral/ non-nominal campaign, Stripes or colours
35489	20081213 090056	Spectral/ non-nominal campaign, Stripes or colours
35489	20081213 090927	Spectral/ non-nominal campaign, Stripes or colours
35489	20081213 091021	Spectral/ non-nominal campaign, Stripes or colours
35490	20081213 103230	Spectral/ non-nominal campaign, Stripes or colours
36134	20090127 102821	Orbit manoeuvre
38267	20090625 102930	Spectral/ non-nominal campaign, Stripes or colours
38267	20090625 103800	Spectral/ non-nominal campaign, Stripes or colours
38267	20090625 104629	Spectral/ non-nominal campaign, Stripes or colours
38295	20090627 093404	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38338	20090630 093941	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38381	20090703 094545	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38410	20090705 101413	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38410	20090705 102242	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38451	20090708 070738	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38451	20090708 071607	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38453	20090708 102848	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38453	20090708 103718	Sentinel-3 simulation-SEN3EXP, Stripes or colours

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5.2 L2 read-me

Filename: MERIS_FR_L2_Data-README_v2013_20170123_v2.0.txt
 Release: 23/01/2017, valid for 2002-2012 MERIS L2 products v2013

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 INTRODUCTION
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This file has been generated on behalf of ESA and the MERIS Quality Working Group.

The MERIS Quality Working Group has recommended that ESA implements the segregation of a selection of MERIS products from the main archive. The aim of this decision is to allow for the clear distinction of data known to be of non-nominal quality, without removing them from the archive completely.

This README file gives:

1. Explanation on the limitations posed by Case II Waters and the known discrepancies concerning the accuracy of the Case II Waters algorithms.
2. A brief explanation of the scenarios for which some data have been segregated
3. Error description for segregated products
4. List of segregated orbits (n = 1508, not corrupt)
 - * orbits known to be affected by Orbital Manoeuvres.
 - * orbits known to be affected Spectral Calibration Campaigns.
 - * products known to be adversely affected by the Envisat 2010+ orbital lowering.
 - * products with degraded quality (acquisition problems...)
5. MER_FRS products, not processed for level 2 or pending for evaluation
 - (1) 5.1 - MER_FRS_1P products, not processed for level 2
 - (2) 5.2 - MER_FRS_2P suspicious products, pending for evaluation
6. MER_FRS_2P products removed from dissemination server (n = 1259; exact and fully included duplicates, blank and short products)
7. MER_FRS_2P products during special events, such as Calibration, Spectral characterisation or Orbit manoeuvre

For further information, please submit queries via the ESA Earth Observation Helpdesk: <https://earth.esa.int/web/guest/contact-us>

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 1 - Case II Waters Advisory Note
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Case II waters are complex waters found within inter-coastal zones, which are influenced by a multitude of parameters.

As a result, the optical properties of such waters are highly variable and are controlled by three independent components:

- * Phytoplankton and their associated debris,
- * Dissolved organic matters of terrigenous origin, known variously as yellow substance, Gelbstoff, Gilvin or CDOM (coloured dissolved organic matter),
- * Mineral particles and various suspended sediments.

The changes made to the Case II waters algorithm throughout the 3rd Reprocessing are detailed within the C2R ATBD at:

https://earth.esa.int/instruments/meris/atbd/abtd_2.25_v1.0.pdf


Case II waters require the separation of different optical components, currently achieved via a series of BEAM plug-ins, designated to the atmospheric correction and retrieval of oceanic constituents.

<http://www.odesa-info.eu/forum/viewtopic.php?f=13&t=82&p=101&hilit=case+two+waters&sid=505a51c7eeb3fbc92b7d76d5c5180482#p101>

Recent findings by the MERIS QWG, have found that these algorithms are not reliable following user reported problems with the bands associated with Case II waters, such as the Algal_2 band.

In particular, a discrepancy has been observed within the unrealistic correlation between optical chlorophyll values and acquisition seasonality.

Therefore, it has been proposed that the algorithms associated Case II Waters be revised throughout 4th Reprocessing activities.

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2 - Scenarios (Manoeuvres and Spectral Calibration)

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Instrument Mode during Orbital Manoeuvres: MERIS remained within OPERATION/ON mode

Spectral Calibration Campaigns: The spectral calibration activities performed during the MERIS commissioning phase comprised three different measurement types:

- The Spectral calibration mode made use of the on-board calibration mechanism to deploy an Erbium doped Spectralon TM diffuser plate, offering a number of spectral absorption features which could be measured by 15 adjacent narrow bands (circa 408 & 522nm.)
- Observation of natural targets with the bands configured around solar Fraunhofer absorption lines (at 393, 485, 588, 655, 855 and 867 nm).
- Observation of natural targets with the bands configured around the oxygen O2-A absorption lines (760 nm).

Therefore, the quality of data within the archive obtained throughout Manoeuvres and Spectral Campaigns cannot be guaranteed and should be viewed with caution.

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3 - Error description for removed and/or segregate products

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Products with errors but containing larger parts which are not affected by the error and which probably will be recovered on a later stage with suitable tools. Those products might be partly usable. They have been selected to be segregated. Other products, which are too heavily affected by the errors have been selected to be removed.

#Category	#Error	#Description
To be removed	Blank	- no or only very few lines with data
To be removed	Short	- product duration less than 7 seconds
To be removed	Duplicate	- product of same starting time and duration as another product or product totally included in another product
Segregated	Special event	- calibration, campaign or orbit manoeuvre
Segregated	Missing data	- few blank lines within the product, i. e. not "totally" blank
Segregated	Geolocation	- wrong geolocation, mainly caused by missing lines
Segregated	Stripes or colours	- one camera clearly different compared to the others or horizontal lines
Segregated	Repetition lines	- repetition of lines in several locations of the product

Remarks:

- Stripes or colours often occur in combination with missing data and geolocation errors.
- Blank, short and duplicate products are considered as corrupt, i. e. categorised as "to be removed". All other products are considered as segregated.

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4 - List of segregated orbits (n = 1508, not corrupt)

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Year 2002:

```
<orbit> <start_YYYYMMDD> <start_time_hhmmss> <reason>
2796 20020912 101550 Geolocation, Stripes or colours
3168 20021008 095602 Stripes or colours
3311 20021018 094048 Geolocation
3588 20021106 181107 Stripes or colours
3598 20021107 105337 Stripes or colours
3598 20021107 105606 Stripes or colours
3701 20021114 154103 Stripes or colours
4058 20021209 143120 Stripes or colours
4186 20021218 130242 Missing data, Stripes or colours
```

Year 2003:

```
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20789	20060220	104353	Stripes or colours
20817	20060222	090944	Repetition lines
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21017	20060308	082657	Missing data
21017	20060308	083526	Missing data, Stripes or colours
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21288	20060327	065034	Missing data, Geolocation, Repetition lines
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22515	20060621	002804	Geolocation
22569	20060624	183929	Geolocation

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22734	20060706 072118	Missing data
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22866	20060715 125052	Geolocation
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23095	20060731 124506	Missing data
23107	20060801 084931	Missing data, Geolocation
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23324	20060816 124218	Missing data, Geolocation, Stripes or colours
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23410	20060822 125808	Missing data, Geolocation
23466	20060826 102923	Missing data, Geolocation
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23779	20060917 071919	Missing data, Geolocation, Stripes or colours, Repetition lines
23779	20060917 072749	Missing data, Geolocation, Stripes or colours
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25108	20061219	034500	Geolocation
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25454	20070112	075436	Missing data, Geolocation
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25497	20070115	080021	Missing data
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25583	20070121	081144	Missing data
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25826	20070207	073722	Missing data, Geolocation
25869	20070210	074959	Stripes or colours
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26413	20070320	074624	Repetition lines
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26758	20070413	100203	Stripes or colours, Repetition lines
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26801	20070416	100745	Geolocation, Stripes or colours, Repetition lines
26815	20070417	093753	Stripes or colours
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27028	20070502 063713	Stripes or colours
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31653	20080320	091542	Stripes or colours
31700	20080323	160358	Stripes or colours
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31787	20080329	175538	Geolocation, Repetition lines
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32359	20080508	165837	Stripes or colours
32459	20080515	163143	Stripes or colours
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32503	20080518	182540	Stripes or colours
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33875	20080822	144300	Stripes or colours
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34063	20080904	175224	Missing data, Geolocation, Stripes or colours
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34233	20080916	145707	Stripes or colours
34276	20080919	150243	Stripes or colours
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34720	20081020	152812	Geolocation, Stripes or colours
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34862	20081030	135816	Missing data, Repetition lines
34959	20081106	081559	Repetition lines
34973	20081107	074420	Repetition lines
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35102	20081116	075942	Repetition lines
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35190	20081122	113252	Repetition lines
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35231	20081125	081921	Repetition lines
35232	20081125	095816	Repetition lines
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35245	20081126	074812	Repetition lines
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35307	20081130	154245	Stripes or colours
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35488	20081213	071149	Spectral/ non-nominal campaign, Stripes or colours
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35488	20081213	072849	Spectral/ non-nominal campaign, Stripes or colours
35488	20081213	073720	Spectral/ non-nominal campaign, Stripes or colours
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35489	20081213	085226	Spectral/ non-nominal campaign, Stripes or colours
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35489	20081213	090927	Spectral/ non-nominal campaign, Stripes or colours
35489	20081213	091021	Spectral/ non-nominal campaign, Stripes or colours
35490	20081213	103230	Spectral/ non-nominal campaign, Stripes or colours
35490	20081213	103244	Stripes or colours
35493	20081213	153438	Geolocation, Stripes or colours
35517	20081215	075103	Repetition lines
35519	20081215	111021	Repetition lines
35546	20081217	082728	Repetition lines
35546	20081217	083558	Repetition lines
35547	20081217	100658	Repetition lines
35561	20081218	093517	Repetition lines
35562	20081218	111649	Repetition lines
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 35793 20090103 143422 Stripes or colours
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 35994 20090117 153407 Missing data, Stripes or colours
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 36366 20090212 152326 Missing data, Geolocation, Stripes or colours
 36438 20090217 155711 Stripes or colours
 36568 20090226 175401 Missing data, Stripes or colours
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 36996 20090328 153058 Geolocation, Stripes or colours
 37019 20090330 060141 Stripes or colours
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 37069 20090402 175221 Geolocation, Stripes or colours
 37255 20090415 174351 Stripes or colours
 37268 20090416 153349 Stripes or colours
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 37398 20090425 172529 Stripes or colours
 37435 20090428 073555 Geolocation, Stripes or colours
 37435 20090428 075254 Missing data, Stripes or colours
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 37698 20090516 163101 Missing data, Stripes or colours
 37756 20090520 174353 Stripes or colours
 37759 20090520 223910 Stripes or colours
 37812 20090524 153933 Missing data, Stripes or colours
 37841 20090526 161640 Stripes or colours
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 38109 20090614 093845 Stripes or colours
 38128 20090615 173547 Missing data
 38227 20090622 152813 Stripes or colours
 38243 20090623 181513 Stripes or colours
 38252 20090624 092418 Stripes or colours
 38257 20090624 174355 Repetition lines
 38267 20090625 102930 Spectral/ non-nominal campaign, Stripes or colours

38267	20090625	103800	Spectral/ non-nominal campaign, Stripes or colours
38267	20090625	104629	Spectral/ non-nominal campaign, Stripes or colours
38295	20090627	093404	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38313	20090628	153935	Stripes or colours
38325	20090629	120359	Geolocation
38338	20090630	093941	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38343	20090630	174729	Missing data, Stripes or colours, Repetition lines
38343	20090630	175145	Repetition lines
38381	20090703	094545	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38410	20090705	101413	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38410	20090705	102242	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38427	20090706	144047	Stripes or colours
38451	20090708	070738	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38451	20090708	071607	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38451	20090708	072437	Stripes or colours
38453	20090708	102848	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38453	20090708	103718	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38466	20090709	081632	Stripes or colours
38483	20090710	125844	Missing data
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38628	20090720	154807	Stripes or colours
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38753	20090729	092418	Geolocation, Stripes or colours
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39228	20090809	101717	Geolocation
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38981	20090814	075141	Repetition lines
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39000	20090815	153102	Stripes or colours
39039	20090818	090102	Missing data
39073	20090820	175227	Missing data, Stripes or colours
39124	20090824	073015	Stripes or colours
39179	20090828	034511	Stripes or colours
39229	20090831	152812	Stripes or colours
39259	20090902	174353	Missing data, Geolocation
39298	20090905	111131	Stripes or colours
39315	20090906	153934	Stripes or colours
39431	20090914	180638	Geolocation
39432	20090914	194652	Geolocation
39482	20090918	074342	Stripes or colours
39501	20090919	153058	Stripes or colours
39574	20090924	175222	Missing data
39584	20090925	104316	Missing data, Stripes or colours, Repetition lines
39598	20090926	101014	Missing data, Geolocation, Stripes or colours, Repetition lines
39598	20090926	101843	Stripes or colours
39609	20090927	045018	Geolocation
39611	20090927	075953	Missing data, Geolocation, Repetition lines
39611	20090927	080119	Missing data, Geolocation, Stripes or colours, Repetition lines
39611	20090927	080156	Missing data, Geolocation, Stripes or colours, Repetition lines
39611	20090927	080314	Stripes or colours
39611	20090927	080440	Missing data, Geolocation, Stripes or colours
39644	20090929	151646	Geolocation
39688	20091002	170118	Stripes or colours
39688	20091002	172055	Repetition lines
39701	20091003	145107	Geolocation
39717	20091004	174638	Stripes or colours
39760	20091007	174409	Stripes or colours
39816	20091011	153929	Stripes or colours
39823	20091012	032434	Geolocation
39823	20091012	033303	Geolocation
39942	20091020	105559	Geolocation

39942	20091020	105708	Geolocation
39942	20091020	105852	Geolocation
39942	20091020	110537	Geolocation
39969	20091022	081629	Stripes or colours
40069	20091029	075133	Stripes or colours
40071	20091029	111417	Stripes or colours
40075	20091029	175500	Stripes or colours
40202	20091107	145258	Stripes or colours
40285	20091113	100354	Stripes or colours
40317	20091115	154140	Missing data, Geolocation
40617	20091206	144249	Stripes or colours
40661	20091209	162907	Stripes or colours
40719	20091213	174400	Missing data
40818	20091220	154326	Geolocation
40917	20091227	134253	Missing data, Stripes or colours
40972	20091231	095523	Stripes or colours

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41119	20100110	162252	Missing data, Geolocation
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41172	20100114	091450	Geolocation
41196	20100116	014709	Stripes or colours
41233	20100118	153103	Missing data, Geolocation
41319	20100124	154210	Stripes or colours
41334	20100125	165057	Missing data
41340	20100126	030434	Geolocation
41578	20100211	175524	Missing data, Stripes or colours
41591	20100212	154310	Missing data, Stripes or colours
41593	20100212	190407	Missing data
41777	20100225	153345	Stripes or colours
41820	20100228	153927	Stripes or colours
41837	20100301	200810	Stripes or colours
41977	20100311	145408	Stripes or colours
42017	20100314	100124	Geolocation
42021	20100314	163831	Missing data
42021	20100314	164726	Missing data
42030	20100315	074744	Geolocation
42030	20100315	074759	Geolocation
42030	20100315	075614	Geolocation, Stripes or colours
42079	20100318	175209	Missing data, Stripes or colours
42174	20100325	092058	Repetition lines
42234	20100329	135022	Stripes or colours
42264	20100331	160508	Missing data, Stripes or colours
42292	20100402	150236	Stripes or colours
42302	20100403	075947	Geolocation
42304	20100403	111124	Geolocation
42306	20100403	143141	Missing data, Stripes or colours, Repetition lines
42308	20100403	174918	Missing data
42321	20100404	153927	Geolocation
42350	20100406	161634	Missing data, Stripes or colours
42364	20100407	154508	Stripes or colours
42389	20100409	094127	Stripes or colours
42418	20100411	101200	Stripes or colours
42494	20100416	174044	Stripes or colours
42580	20100422	175206	Missing data, Stripes or colours
42646	20100427	083627	Geolocation

42660	20100428	081339	Geolocation
42718	20100502	092749	Geolocation
42733	20100503	102728	Geolocation
42736	20100503	152803	Geolocation
42779	20100506	153343	Missing data, Stripes or colours
42822	20100509	153925	Missing data, Stripes or colours
42847	20100511	093544	Stripes or colours
42847	20100511	094414	Missing data, Stripes or colours
42908	20100515	155048	Stripes or colours
42979	20100520	145421	Repetition lines
43077	20100527	111412	Stripes or colours
43081	20100527	175207	Stripes or colours
43119	20100530	093835	Stripes or colours
43182	20100603	191206	Stripes or colours
43220	20100606	110026	Stripes or colours
43237	20100607	152804	Stripes or colours
43319	20100613	090119	Stripes or colours
43334	20100614	100722	Repetition lines
43353	20100615	180353	Missing data, Stripes or colours
43412	20100619	205115	Missing data, Stripes or colours
43421	20100620	115015	Stripes or colours
43490	20100625	074614	Geolocation, Stripes or colours
43492	20100625	110250	Stripes or colours
43509	20100626	153053	Stripes or colours
43578	20100701	111412	Stripes or colours
43582	20100701	175207	Stripes or colours
43583	20100701	193212	Missing data
43595	20100702	154214	Missing data, Geolocation, Repetition lines
43606	20100703	100208	Geolocation
43738	20100712	152804	Stripes or colours
43754	20100713	181456	Geolocation
43764	20100714	110543	Stripes or colours
43766	20100714	143500	Stripes or colours
43807	20100717	111124	Stripes or colours
43823	20100718	140113	Stripes or colours
43866	20100721	141511	Stripes or colours
43866	20100721	141538	Stripes or colours, Repetition lines
43867	20100721	155338	Repetition lines
43880	20100722	133706	Missing data, Stripes or colours, Repetition lines
43881	20100722	151354	Stripes or colours
43892	20100723	094126	Stripes or colours
43938	20100726	145724	Stripes or colours
43991	20100730	074456	Stripes or colours, Repetition lines
43997	20100730	174046	Geolocation
44006	20100731	085918	Geolocation
44010	20100731	153055	Stripes or colours
44053	20100803	153636	Missing data
44079	20100805	111414	Repetition lines
44083	20100805	175209	Missing data, Stripes or colours
44095	20100806	140357	Missing data
44156	20100810	201534	Stripes or colours
44178	20100812	091532	Stripes or colours
44193	20100813	103007	Geolocation
44207	20100814	095013	Stripes or colours
44269	20100818	175206	Stripes or colours
44278	20100819	090214	Geolocation, Stripes or colours
44325	20100822	153928	Missing data
44325	20100822	153933	Stripes or colours
44337	20100823	114321	Geolocation

44337	20100823	114641	Geolocation
44337	20100823	114641	Geolocation
44337	20100823	115150	Geolocation
44337	20100823	120341	Geolocation, Stripes or colours
44337	20100823	120341	Geolocation, Stripes or colours
44337	20100823	121210	Geolocation
44337	20100823	121210	Geolocation
44349	20100824	075925	Stripes or colours
44355	20100824	175501	Geolocation, Stripes or colours
44368	20100825	155339	Stripes or colours
44392	20100827	080228	Stripes or colours
44449	20100831	075351	Stripes or colours
44492	20100903	074458	Stripes or colours, Repetition lines
44492	20100903	074832	Repetition lines
44525	20100905	145946	Stripes or colours
44584	20100909	175209	Missing data
44723	20100919	110026	Stripes or colours
44726	20100919	160826	Stripes or colours, Repetition lines
44754	20100921	145702	Stripes or colours
44765	20100922	093238	Missing data, Stripes or colours
44770	20100922	174345	Missing data, Stripes or colours
44783	20100923	153353	Geolocation, Stripes or colours
44826	20100926	153934	Stripes or colours
44841	20100927	164718	Missing data
44854	20100928	143725	Stripes or colours
44898	20101001	163120	Stripes or colours
44908	20101002	091237	Stripes or colours
44923	20101003	101500	Stripes or colours
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44965	20101006	085731	Stripes or colours
44969	20101006	152521	Geolocation
44983	20101007	145415	Geolocation, Stripes or colours
44998	20101008	161117	Stripes or colours
45026	20101010	145953	Missing data, Stripes or colours
45038	20101011	110830	Stripes or colours, Repetition lines
45042	20101011	174728	Stripes or colours
45076	20101014	030152	Stripes or colours
45076	20101014	030200	Stripes or colours
45085	20101014	175342	Stripes or colours
45098	20101015	155120	Geolocation
45127	20101017	162826	Stripes or colours
45141	20101018	154806	Missing data, Stripes or colours
45156	20101019	165831	Stripes or colours
45169	20101020	144549	Geolocation
45170	20101020	163413	Repetition lines
45184	20101021	160217	Stripes or colours
45259	20101026	220555	Stripes or colours
45260	20101026	234350	Stripes or colours
45381	20101104	092059	Stripes or colours
45419	20101107	010128	Stripes or colours
45439	20101108	101339	Stripes or colours
45439	20101108	102208	Repetition lines
45439	20101108	102421	Stripes or colours
45442	20101108	151158	Missing data
45454	20101109	111237	Stripes or colours, Repetition lines
45458	20101109	175447	Missing data
45471	20101110	153655	Stripes or colours
45497	20101112	110239	Repetition lines
45497	20101112	110258	Stripes or colours, Repetition lines

45497	20101112	110745	Stripes or colours
45510	20101113	084740	Stripes or colours, Repetition lines
45611	20101120	093644	Repetition lines
45640	20101122	095716	Stripes or colours
45643	20101122	145745	Stripes or colours
45644	20101122	163801	Stripes or colours
45672	20101124	152439	Missing data, Stripes or colours
45680	20101125	045436	Missing data, Stripes or colours, Repetition lines
45681	20101125	062625	Stripes or colours, Repetition lines
45681	20101125	062625	Stripes or colours, Repetition lines
45681	20101125	063454	Stripes or colours
45681	20101125	064201	Geolocation, Stripes or colours
45743	20101129	140129	Stripes or colours
45744	20101129	154145	Stripes or colours
45772	20101201	142821	Geolocation
45773	20101201	160832	Geolocation
45824	20101205	052021	Missing data, Stripes or colours
45824	20101205	052405	Missing data, Stripes or colours
45844	20101206	144522	Geolocation, Stripes or colours
45910	20101211	050910	Geolocation
46002	20101217	144241	Stripes or colours
46060	20101221	153622	Stripes or colours
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46299	20110107	070833	Geolocation
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46478	20110119	175300	Missing data
46491	20110120	153602	Stripes or colours
46521	20110122	174250	Repetition lines
46534	20110123	152556	Stripes or colours
46593	20110127	175918	Stripes or colours
46616	20110129	083244	Geolocation
46635	20110130	161243	Stripes or colours
46673	20110202	074050	Missing data
46751	20110207	175614	Geolocation
46761	20110208	105407	Geolocation
47061	20110301	075038	Missing data
47080	20110302	153122	Stripes or colours
47137	20110306	145407	Stripes or colours
47279	20110316	115735	Stripes or colours
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47292	20110317	094431	Stripes or colours
47292	20110317	095301	Stripes or colours
47297	20110317	175908	Geolocation
47439	20110327	151451	Stripes or colours
47455	20110328	175602	Missing data
47468	20110329	154125	Stripes or colours
47536	20110403	091822	Repetition lines
47564	20110405	075837	Stripes or colours
47565	20110405	094818	Geolocation
47626	20110409	153808	Stripes or colours
47678	20110413	064601	Geolocation
47680	20110413	100012	Stripes or colours
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47784	20110420	153504	Missing data, Stripes or colours
47896	20110428	105851	Stripes or colours
47899	20110428	154155	Missing data
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47952	20110502	082523	Missing data
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48001	20110505	175702	Stripes or colours
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48139	20110515	084027	Geolocation, Stripes or colours
48140	20110515	101854	Stripes or colours
48167	20110517	074618	Stripes or colours
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48268	20110524	081100	Geolocation, Stripes or colours
48303	20110526	182720	Stripes or colours
48313	20110527	112026	Geolocation
48317	20110527	175658	Geolocation, Stripes or colours
48368	20110531	073542	Stripes or colours
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48427	20110604	094636	Stripes or colours
48428	20110604	111857	Repetition lines
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48455	20110606	084448	Missing data, Geolocation
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48482	20110608	053417	Stripes or colours
48482	20110608	054824	Repetition lines
48488	20110608	153908	Geolocation
48517	20110610	160539	Stripes or colours
48540	20110612	062621	Stripes or colours
48542	20110612	095327	Stripes or colours
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48619	20110617	183534	Stripes or colours
48646	20110619	153558	Stripes or colours
48761	20110627	154243	Geolocation, Repetition lines
48771	20110628	082749	Stripes or colours
48804	20110630	153251	Stripes or colours, Repetition lines
48816	20110701	114021	Repetition lines
48819	20110701	163557	Stripes or colours
48819	20110701	164452	Missing data, Geolocation
48828	20110702	074227	Stripes or colours
48833	20110702	155921	Missing data, Geolocation, Stripes or colours
48833	20110702	155921	Missing data, Geolocation, Stripes or colours
48843	20110703	085510	Stripes or colours
48844	20110703	102247	Missing data, Stripes or colours, Repetition lines
48857	20110704	080830	Stripes or colours, Repetition lines
48871	20110705	073033	Stripes or colours, Repetition lines
48871	20110705	075331	Geolocation, Stripes or colours

48872	20110705 093016	Stripes or colours
48876	20110705 154930	Stripes or colours
48890	20110706 152204	Missing data, Stripes or colours
48901	20110707 095652	Stripes or colours
48915	20110708 085451	Repetition lines
48915	20110708 090639	Repetition lines
48916	20110708 103947	Stripes or colours
48944	20110710 092724	Stripes or colours
48960	20110711 120744	Stripes or colours
48987	20110713 092829	Geolocation
49006	20110714 165821	Stripes or colours
49029	20110716 074756	Stripes or colours
49044	20110717 083128	Stripes or colours
49073	20110719 090840	Geolocation
49074	20110719 103644	Stripes or colours
49091	20110720 150016	Stripes or colours
49092	20110720 165018	Stripes or colours
49106	20110721 160305	Stripes or colours
49135	20110723 162936	Geolocation, Repetition lines
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49151	20110724 190414	Stripes or colours
49159	20110725 084645	Stripes or colours
49178	20110726 161942	Repetition lines
49217	20110729 093837	Stripes or colours
49231	20110730 085412	Missing data
49233	20110730 120359	Stripes or colours
49246	20110731 101704	Stripes or colours
49318	20110805 101315	Stripes or colours
49331	20110806 074934	Stripes or colours
49331	20110806 075220	Stripes or colours
49331	20110806 075804	Stripes or colours
49331	20110806 075948	Stripes or colours
49331	20110806 080050	Stripes or colours
49331	20110806 080919	Stripes or colours
49331	20110806 081749	Stripes or colours
49333	20110806 111805	Stripes or colours
49333	20110806 111859	Repetition lines
49333	20110806 112003	Stripes or colours
49389	20110810 085847	Missing data, Stripes or colours
49446	20110814 080446	Missing data, Geolocation
49461	20110815 091601	Repetition lines
49476	20110816 103030	Stripes or colours
49490	20110817 093408	Stripes or colours
49502	20110818 053230	Stripes or colours
49504	20110818 090902	Geolocation, Stripes or colours
49519	20110819 095209	Stripes or colours
49548	20110821 102706	Stripes or colours
49568	20110822 194805	Missing data
49591	20110824 100845	Stripes or colours
49608	20110825 144111	Missing data, Stripes or colours, Repetition lines
49706	20110901 101821	Stripes or colours
49706	20110901 102332	Missing data, Geolocation, Stripes or colours
49735	20110903 105108	Stripes or colours
49763	20110905 093711	Geolocation, Stripes or colours
49763	20110905 100607	Stripes or colours
49778	20110906 104208	Stripes or colours
49781	20110906 154025	Stripes or colours
49820	20110909 090152	Missing data
49839	20110910 163335	Geolocation, Stripes or colours

49863	20110912 085126	Geolocation
49864	20110912 104914	Stripes or colours
49881	20110913 144437	Missing data, Stripes or colours
49884	20110913 194132	Stripes or colours
49892	20110914 091619	Stripes or colours
49925	20110916 163315	Geolocation
49939	20110917 153710	Missing data
49949	20110918 083255	Stripes or colours
49954	20110918 165038	Stripes or colours
49964	20110919 094427	Stripes or colours
49991	20110921 062550	Stripes or colours, Repetition lines
49992	20110921 083533	Missing data, Stripes or colours, Repetition lines
49993	20110921 095350	Stripes or colours, Repetition lines
49994	20110921 112555	Stripes or colours
49994	20110921 113424	Repetition lines
50007	20110922 093432	Stripes or colours
50008	20110922 105444	Missing data
50022	20110923 101705	Stripes or colours, Repetition lines
50024	20110923 134127	Missing data
50025	20110923 151730	Missing data
50040	20110924 162021	Stripes or colours
50051	20110925 105304	Stripes or colours
50068	20110926 150739	Geolocation
50069	20110926 165601	Stripes or colours
50083	20110927 161029	Missing data, Stripes or colours
50083	20110927 161927	Stripes or colours
50097	20110928 153359	Missing data, Geolocation, Stripes or colours
50112	20110929 164612	Stripes or colours
50126	20110930 160925	Missing data, Geolocation, Stripes or colours
50137	20111001 102012	Stripes or colours
50140	20111001 152407	Geolocation, Stripes or colours
50180	20111004 101349	Geolocation
50197	20111005 143823	Stripes or colours
50212	20111006 154041	Stripes or colours
50251	20111009 090441	Stripes or colours
50279	20111011 080016	Stripes or colours
50280	20111011 094009	Stripes or colours
50310	20111013 112601	Stripes or colours
50323	20111014 090751	Geolocation, Stripes or colours
50342	20111015 165037	Geolocation, Stripes or colours
50356	20111016 161358	Missing data, Geolocation, Stripes or colours
50370	20111017 153726	Missing data, Geolocation, Stripes or colours
50370	20111017 154555	Stripes or colours
50370	20111017 154759	Missing data, Geolocation, Stripes or colours
50379	20111018 063837	Stripes or colours
50384	20111018 150118	Missing data, Geolocation, Stripes or colours
50395	20111019 093005	Stripes or colours
50408	20111020 070532	Stripes or colours
50408	20111020 070538	Geolocation, Stripes or colours
50412	20111020 135038	Stripes or colours
50413	20111020 152738	Geolocation, Stripes or colours
50413	20111020 153607	Stripes or colours
50413	20111020 153635	Stripes or colours
50424	20111021 094917	Stripes or colours
50441	20111022 142449	Stripes or colours
50528	20111028 153432	Missing data, Geolocation, Stripes or colours
50542	20111029 145805	Geolocation, Stripes or colours, Repetition lines
50543	20111029 163812	Missing data, Geolocation, Stripes or colours
50552	20111030 075202	Stripes or colours

50553	20111030 092108	Geolocation, Stripes or colours
50581	20111101 080654	Missing data, Stripes or colours
50610	20111103 083558	Stripes or colours
50624	20111104 075718	Stripes or colours
50625	20111104 093743	Stripes or colours
50628	20111104 143837	Geolocation, Stripes or colours
50629	20111104 161844	Missing data, Geolocation, Stripes or colours
50638	20111105 074604	Stripes or colours
50642	20111105 140315	Geolocation
50643	20111105 154208	Missing data, Geolocation, Stripes or colours, Repetition lines
50653	20111106 083351	Geolocation, Stripes or colours
50657	20111106 150524	Missing data, Geolocation, Stripes or colours
50768	20111114 083135	Geolocation, Stripes or colours
50801	20111116 153954	Missing data, Geolocation, Stripes or colours
50868	20111121 080054	Stripes or colours
50916	20111124 154706	Missing data, Geolocation, Stripes or colours
50983	20111129 074357	Stripes or colours
51001	20111130 134752	Stripes or colours
51002	20111130 152729	Missing data, Geolocation
51041	20111203 083653	Stripes or colours
51074	20111205 154430	Geolocation, Stripes or colours
51114	20111208 103324	Stripes or colours
51133	20111209 181812	Missing data, Stripes or colours
51232	20111216 154131	Geolocation
51299	20111221 075345	Stripes or colours
51304	20111221 155814	Missing data, Geolocation, Stripes or colours
51372	20111226 093615	Stripes or colours
51414	20111229 074421	Geolocation
51414	20111229 074457	Geolocation
51414	20111229 080120	Geolocation, Stripes or colours
51415	20111229 092628	Stripes or colours

Year 2012:

<orbit>	<start_YYYYMMDD>	<start_time_hhmmss>	<reason>
51462	20120101 155449		Missing data, Stripes or colours
51521	20120105 182826		Geolocation, Stripes or colours
51545	20120107 103358		Stripes or colours
51607	20120111 180806		Missing data
51663	20120115 154101		Stripes or colours
51703	20120118 102951		Stripes or colours
51721	20120119 163412		Stripes or colours
51745	20120121 084811		Stripes or colours
51785	20120124 033701		Geolocation
51789	20120124 100928		Geolocation
51789	20120124 101032		Geolocation
51817	20120126 085655		Stripes or colours
51817	20120126 085716		Stripes or colours, Repetition lines
51817	20120126 085902		Repetition lines
51831	20120127 082049		Missing data, Stripes or colours, Repetition lines
51832	20120127 095934		Stripes or colours
51846	20120128 092330		Missing data, Stripes or colours
51893	20120131 155320		Missing data, Stripes or colours
51901	20120201 051447		Missing data, Geolocation, Stripes or colours, Repetition lines
51918	20120202 094011		Stripes or colours
51933	20120203 104154		Missing data, Geolocation, Stripes or colours
51934	20120203 123919		Repetition lines
51934	20120203 124748		Repetition lines
51934	20120203 124806		Repetition lines
51976	20120206 103153		Stripes or colours

51989	20120207	082400	Stripes or colours
52033	20120210	101003	Stripes or colours
52094	20120214	153829	Geolocation, Stripes or colours
52094	20120214	153909	Stripes or colours
52105	20120215	100654	Stripes or colours
52105	20120215	103443	Stripes or colours
52166	20120219	155438	Geolocation, Stripes or colours
52209	20120222	154442	Stripes or colours
52239	20120224	175101	Stripes or colours
52292	20120228	102233	Stripes or colours
52324	20120301	155135	Geolocation, Stripes or colours
52335	20120302	101429	Stripes or colours
52435	20120309	091818	Stripes or colours
52525	20120315	153806	Missing data, Stripes or colours
52536	20120316	100144	Geolocation, Repetition lines
52580	20120319	114344	Geolocation
52597	20120320	155439	Missing data, Stripes or colours
52608	20120321	101754	Missing data, Repetition lines
52623	20120322	112646	Stripes or colours
52637	20120323	110535	Missing data
52640	20120323	154441	Geolocation
52665	20120325	093130	Stripes or colours
52666	20120325	111229	Geolocation
52680	20120326	103739	Geolocation, Stripes or colours
52693	20120327	083018	Geolocation
52723	20120329	102000	Stripes or colours
52723	20120329	102433	Stripes or colours
52755	20120331	155119	Missing data, Stripes or colours
52771	20120401	183231	Stripes or colours
52792	20120403	053628	Stripes or colours
52808	20120404	082640	Geolocation
52867	20120408	105133	Stripes or colours

=====
5 - MER_FRS products, not processed for level 2 or pending for evaluation
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5.1 - MER_FRS_1P products, not processed for level 2 (n = 15)
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Remarks:

15 L1 products have not been processed to L2.

- 13 L1 products are categorized as segregated (n = 9) or corrupt (n = 4). For details see L1 readme file MERIS_L1_Data-README_v2013_20150626_v3.0.txt.
- for 2 products, the reason for processing failure is unknown (presumably glint or sea ice).

<L1 product name>

MER_FRS_1PPEPA20090127_111402_000001882076_00008_36134_0968.N1
 MER_FRS_1PPEPA20090127_112013_000005092076_00008_36134_0969.N1
 MER_FRS_1PPEPA20090127_112843_000005122076_00008_36134_0970.N1
 MER_FRS_1PPEPA20090127_113712_000005122076_00008_36134_0971.N1
 MER_FRS_1PPEPA20090127_114542_000001402076_00008_36134_0972.N1
 MER_FRS_1PPEPA20100527_142149_00000002089_00440_43079_2492.N1
 MER_FRS_1PPEPA20100527_142149_00000002089_00440_43079_2493.N1
 MER_FRS_1PPEPA20100901_224746_000005092092_00330_44472_7392.N1
 MER_FRS_1PPEPA20100901_225615_000005122092_00330_44472_7393.N1
 MER_FRS_1PPEPA20100901_230445_000005122092_00330_44472_7394.N1
 MER_FRS_1PPEPA20100901_231315_000001772092_00330_44472_7395.N1
 MER_FRS_1PPEPA20100902_072430_000005092091_00254_43895_7409.N1

<comment>

unknown
 segregated L1 product
 segregated L1 product
 segregated L1 product
 corrupt L1 product
 corrupt L1 product
 corrupt L1 product
 segregated L1 product
 segregated L1 product
 segregated L1 product
 segregated L1 product
 segregated L1 product

MER_FRS_1PPEPA20100902_073300_000000252091_00254_43895_7410.N1	unknown
MER_FRS_1PPEPA20100902_073325_000001602091_00254_43895_7411.N1	segregated L1 product
MER_FRS_1PPEPA20110623_082515_00000003103_00409_48699_9717.N1	corrupt L1 product

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5.2 - MER_FRS_2P suspicious products, pending for evaluation

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Remark:

6 L1 products have been processed to 10 suspicious L2 products.

- thereof, 5 L1 products (corresponding to 9 L2 products) are categorized as segregated (see L1 readme file "MERIS_L1_Data-README_v2013_20150713_v4.0.txt").
- for 1 product, the reason for processing failure is unknown.

<L1 product name>	<L2 product name>	<comment>
MER_FRS_1PPEPA20100331_092410_000005092088_00122_42260_9617.N1	MER_FRS_2PPDSI20100331_092410_000003402088_00122_42260_7277.N1	segregated L1 product
MER_FRS_1PPEPA20100331_092410_000005092088_00122_42260_9617.N1	MER_FRS_2PPDSI20100331_092952_000001682088_00122_42260_7274.N1	segregated L1 product
MER_FRS_1PPEPA20100704_093834_000005092090_00480_43620_4386.N1	MER_FRS_2PPDSI20100704_093834_000002022090_00480_43620_7275.N1	segregated L1 product
MER_FRS_1PPEPA20100704_093834_000005092090_00480_43620_4386.N1	MER_FRS_2PPDSI20100704_094201_000003042090_00480_43620_7278.N1	segregated L1 product
MER_FRS_1PPEPA20101017_093829_000005092093_00480_45123_9411.N1	MER_FRS_2PPDSI20101017_093829_000002782093_00480_45123_7273.N1	segregated L1 product
MER_FRS_1PPEPA20101017_093829_000005092093_00480_45123_9411.N1	MER_FRS_2PPDSI20101017_094311_000002282093_00480_45123_7276.N1	segregated L1 product
MER_FRS_1PPEPA20101112_074639_000003913096_00222_45495_0028.N1	MER_FRS_2PPDSI20101112_074639_000001093096_00222_45495_7281.N1	segregated L1 product
MER_FRS_1PPEPA20101112_074639_000003913096_00222_45495_0028.N1	MER_FRS_2PPDSI20101112_074843_000002333096_00222_45495_7280.N1	segregated L1 product
MER_FRS_1PPEPA20111022_141553_000005093107_00427_50441_6622.N1	MER_FRS_2PPDSI20111022_141613_000004563107_00427_50441_7186.N1	segregated L1 product
MER_FRS_1PPEPA20100928_180402_000002112093_00213_44856_8622.N1	MER_FRS_2PPDSI20100928_180402_000002112093_00213_44856_8622.N1	unknown

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6 - MER_FRS_2P products removed from dissemination server (n = 1259; exact and fully included duplicates, blank and short products)

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MER_FRS_2PPDSI20020727_095022_000000052008_00065_02123_0927.N1

MER_FRS_2PPDSI20021022_105922_000000022010_00309_03369_1317.N1

MER_FRS_2PPDSI20030106_030518_000000052012_00390_04452_4933.N1

MER_FRS_2PPDSI20030122_110806_000000052013_00123_04686_5085.N1

MER_FRS_2PPDSI20030227_103605_000000022014_00137_05201_5438.N1

MER_FRS_2PPDSI20030228_182417_000000052014_00156_05220_5452.N1

MER_FRS_2PPDSI20030305_074448_000004252014_00221_05285_5529.N1

MER_FRS_2PPDSI20030305_090159_000002732014_00222_05286_5534.N1

MER_FRS_2PPDSI20030305_090941_000000052014_00222_05286_5530.N1

MER_FRS_2PPDSI20030307_112116_000000052014_00252_05316_5571.N1

MER_FRS_2PPDSI20030328_084143_000001972015_00049_05614_5789.N1

MER_FRS_2PPDSI20030405_112241_000000052015_00166_05731_5901.N1

MER_FRS_2PPDSI20030411_080537_000000022015_00250_05815_5985.N1

MER_FRS_2PPDSI20030412_105310_000000052015_00266_05831_6000.N1

MER_FRS_2PPDSI20030415_174953_000000022015_00313_05878_6054.N1

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MER_FRS_2PPDSI20030711_053349_000000022018_00048_07116_7376.N1

MER_FRS_2PPDSI20030714_072017_000000052018_00092_07160_7472.N1

MER_FRS_2PPDSI20030719_062554_000000022018_00163_07231_7581.N1

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7 - MER_FRS_2P products during special events, such as Calibration, Spectral characterisation or Orbit manoeuvre (n = 74)
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7769	20030825	201040	Spectral characterisation, Stripes or colours
7771	20030825	235121	Spectral characterisation, Stripes or colours
7775	20030826	061845	Spectral characterisation, Stripes or colours
7775	20030826	062714	Spectral characterisation, Stripes or colours
7775	20030826	062907	Spectral characterisation, Stripes or colours
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7776	20030826	075659	Spectral characterisation, Stripes or colours
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7776	20030826	081530	Spectral characterisation, Stripes or colours
7777	20030826	094608	Spectral characterisation, Stripes or colours
8679	20031028	095519	Orbit manoeuvre, Missing data, Geolocation, Stripes or colours
8679	20031028	095519	Orbit manoeuvre, Missing data, Geolocation, Cosmetic
13025	20040827	010453	Spectral characterisation, Stripes or colours
13027	20040827	035724	Spectral characterisation, Stripes or colours
13027	20040827	040655	Spectral characterisation, Stripes or colours
13030	20040827	085810	Spectral characterisation, Stripes or colours
13030	20040827	090414	Spectral characterisation, Stripes or colours
13030	20040827	091244	Spectral characterisation, Stripes or colours
13068	20040830	010218	Spectral characterisation, Missing data
13068	20040830	010233	Spectral characterisation, Stripes or colours
13068	20040830	011104	Spectral characterisation, Missing data
13070	20040830	035928	Spectral characterisation, Stripes or colours
13070	20040830	040758	Spectral characterisation, Stripes or colours
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13073	20040830	090458	Spectral characterisation, Stripes or colours
13073	20040830	091004	Spectral characterisation, Stripes or colours, Cosmetic
13073	20040830	092240	Spectral characterisation, Stripes or colours
24781	20061126	072213	Spectral characterisation, Stripes or colours
24781	20061126	073044	Spectral characterisation, Stripes or colours
24781	20061126	073457	Spectral characterisation, Stripes or colours
24781	20061126	073718	Spectral characterisation, Missing data, Stripes or colours
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24781	20061126	074525	Spectral characterisation, Stripes or colours
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24782	20061126	090227	O2A campaign, Stripes or colours
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35488	20081213	071149	Spectral/ non-nominal campaign, Stripes or colours

35488	20081213	072019	Spectral/ non-nominal campaign, Stripes or colours
35488	20081213	072849	Spectral/ non-nominal campaign, Stripes or colours
35488	20081213	073720	Spectral/ non-nominal campaign, Stripes or colours
35489	20081213	085221	Spectral/ non-nominal campaign, Stripes or colours
35489	20081213	085226	Spectral/ non-nominal campaign, Stripes or colours
35489	20081213	085307	Spectral/ non-nominal campaign, Stripes or colours
35489	20081213	090056	Spectral/ non-nominal campaign, Stripes or colours
35489	20081213	090927	Spectral/ non-nominal campaign, Stripes or colours
35489	20081213	091021	Spectral/ non-nominal campaign, Stripes or colours
35490	20081213	103230	Spectral/ non-nominal campaign, Stripes or colours
36134	20090127	102821	Orbit manoeuvre
38267	20090625	102930	Spectral/ non-nominal campaign, Stripes or colours
38267	20090625	103800	Spectral/ non-nominal campaign, Stripes or colours
38267	20090625	104629	Spectral/ non-nominal campaign, Stripes or colours
38295	20090627	093404	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38338	20090630	093941	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38381	20090703	094545	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38410	20090705	101413	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38410	20090705	102242	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38451	20090708	070738	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38451	20090708	071607	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38453	20090708	102848	Sentinel-3 simulation-SEN3EXP, Stripes or colours
38453	20090708	103718	Sentinel-3 simulation-SEN3EXP, Stripes or colours

Remark: Only orbit 36134 has been segregated due to a special event only, in this case an orbit manoeuvre. All other products were already categorised as segregated due to an obvious error.