GOMOS Level 2 Daily Report

SUMMARY

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2. Summary of processed GOM_NL__2P products

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5. Ozone profiles based on quality statistics and other trace gas profiles

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   - 5.5. Plot ozone profiles where STD < 5% (dark without errors)

   - 5.6 Plot NO2 profiles for all STD (dark without errors)

   - 5.7 Plot NO3 profiles for all STD (dark without errors)

   - 5.8 Plot H2O profiles (only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors) for all STD

6. Auxiliary Data Files used for the production reported in section 2

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1. General info

This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P).
It is intended to monitor some important parameters that will impact the quality of these products.
A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	18APR2013 14:14:54
Data source version	GOMOS/6.01
Start time of products	05-04-2012 (05APR2012 00:00:00)
Stop time of products	06-04-2012 (06APR2012 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	24
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

!Warning: No products without errors in DARK limb contitions found

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20120405_010131_000000283113_00218_52818_3275.N1	05-APR-2012 01:01:31	Twi_and_stray	28.000	163	7Del Crv	2.9450	11000.	56	52818	No
2	GOM_NL__2PRFIN20120405_012156_000000373113_00218_52818_3276.N1	05-APR-2012 01:21:56	Bright	37.000	87	64Gam UMa	2.4330	11000.	74	52818	No
3	GOM_NL__2PRFIN20120405_024145_000000333113_00219_52819_3291.N1	05-APR-2012 02:41:45	Twi_and_stray	33.000	163	7Del Crv	2.9450	11000.	66	52819	No
4	GOM_NL__2PRFIN20120405_030210_000000353113_00219_52819_3292.N1	05-APR-2012 03:02:10	Bright	35.000	87	64Gam UMa	2.4330	11000.	70	52819	No
5	GOM_NL__2PRFIN20120405_042159_000000383113_00220_52820_3422.N1	05-APR-2012 04:21:59	Twi_and_stray	37.500	163	7Del Crv	2.9450	11000.	75	52820	No
6	GOM_NL__2PRFIN20120405_055149_000000263113_00221_52821_3431.N1	05-APR-2012 05:51:49	Straylight	26.000	95	Zet Cen	2.5450	26000.	52	52821	No
7	GOM_NL__2PRFIN20120405_060213_000000423113_00221_52821_3432.N1	05-APR-2012 06:02:13	Twi_and_stray	41.500	163	7Del Crv	2.9450	11000.	83	52821	No
8	GOM_NL__2PRFIN20120405_073204_000000293113_00222_52822_3434.N1	05-APR-2012 07:32:04	Straylight	29.000	95	Zet Cen	2.5450	26000.	58	52822	No
9	GOM_NL__2PRFIN20120405_074227_000000423113_00222_52822_3435.N1	05-APR-2012 07:42:27	Twi_and_stray	42.000	163	7Del Crv	2.9450	11000.	84	52822	No
10	GOM_NL__2PRFIN20120405_091218_000000323113_00223_52823_3443.N1	05-APR-2012 09:12:18	Straylight	32.000	95	Zet Cen	2.5450	26000.	64	52823	No
11	GOM_NL__2PRFIN20120405_092241_000000413113_00223_52823_3444.N1	05-APR-2012 09:22:41	Twi_and_stray	41.000	163	7Del Crv	2.9450	11000.	82	52823	No
12	GOM_NL__2PRFIN20120405_105232_000000343113_00224_52824_3453.N1	05-APR-2012 10:52:32	Straylight	34.000	95	Zet Cen	2.5450	26000.	68	52824	No
13	GOM_NL__2PRFIN20120405_110255_000000413113_00224_52824_3454.N1	05-APR-2012 11:02:55	Twi_and_stray	41.000	163	7Del Crv	2.9450	11000.	82	52824	No
14	GOM_NL__2PRFIN20120405_123247_000000373113_00225_52825_3475.N1	05-APR-2012 12:32:47	Straylight	37.000	95	Zet Cen	2.5450	26000.	74	52825	No
15	GOM_NL__2PRFIN20120405_124310_000000403113_00225_52825_3476.N1	05-APR-2012 12:43:10	Twi_and_stray	40.000	163	7Del Crv	2.9450	11000.	80	52825	No
16	GOM_NL__2PRFIN20120405_141301_000000393113_00226_52826_3498.N1	05-APR-2012 14:13:01	Straylight	38.500	95	Zet Cen	2.5450	26000.	77	52826	No
17	GOM_NL__2PRFIN20120405_142324_000000423113_00226_52826_3499.N1	05-APR-2012 14:23:24	Twi_and_stray	42.000	163	7Del Crv	2.9450	11000.	84	52826	No
18	GOM_NL__2PRFIN20120405_155315_000000403113_00227_52827_3507.N1	05-APR-2012 15:53:15	Straylight	40.000	95	Zet Cen	2.5450	26000.	80	52827	No
19	GOM_NL__2PRFIN20120405_160338_000000393113_00227_52827_3508.N1	05-APR-2012 16:03:38	Twi_and_stray	38.500	163	7Del Crv	2.9450	11000.	77	52827	No
20	GOM_NL__2PRFIN20120405_173330_000000423113_00228_52828_3516.N1	05-APR-2012 17:33:30	Straylight	41.500	95	Zet Cen	2.5450	26000.	83	52828	No
21	GOM_NL__2PRFIN20120405_174352_000000413113_00228_52828_3517.N1	05-APR-2012 17:43:52	Twi_and_stray	41.000	163	7Del Crv	2.9450	11000.	82	52828	No
22	GOM_NL__2PRFIN20120405_191344_000000443113_00229_52829_3525.N1	05-APR-2012 19:13:44	Straylight	44.000	95	Zet Cen	2.5450	26000.	88	52829	No
23	GOM_NL__2PRFIN20120405_205358_000000413113_00230_52830_3540.N1	05-APR-2012 20:53:58	Straylight	40.500	95	Zet Cen	2.5450	26000.	81	52830	No
24	GOM_NL__2PRFIN20120405_223413_000000423113_00231_52831_3543.N1	05-APR-2012 22:34:13	Straylight	42.000	95	Zet Cen	2.5450	26000.	84	52831	No

3. Quality information per product

In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

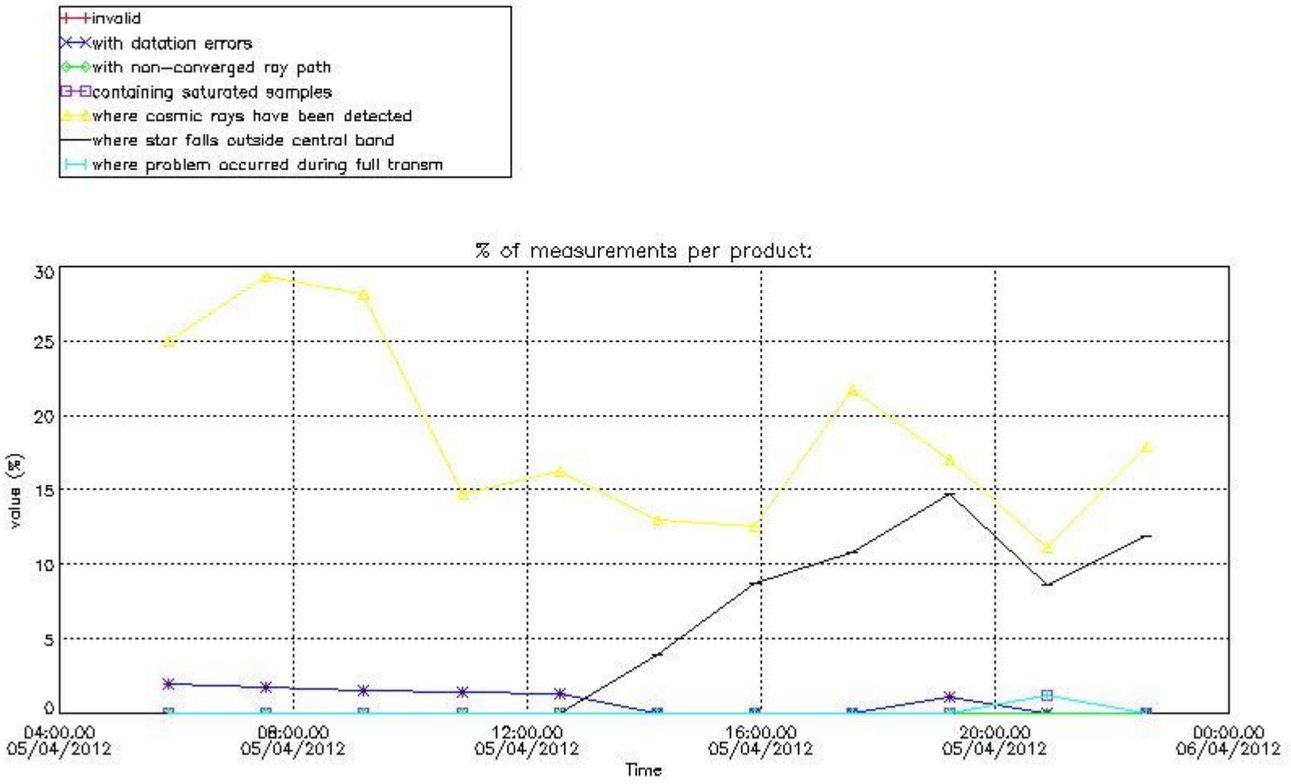
3.1 Plot quality information per product (time dependant)

4. Level 1 quality information per product

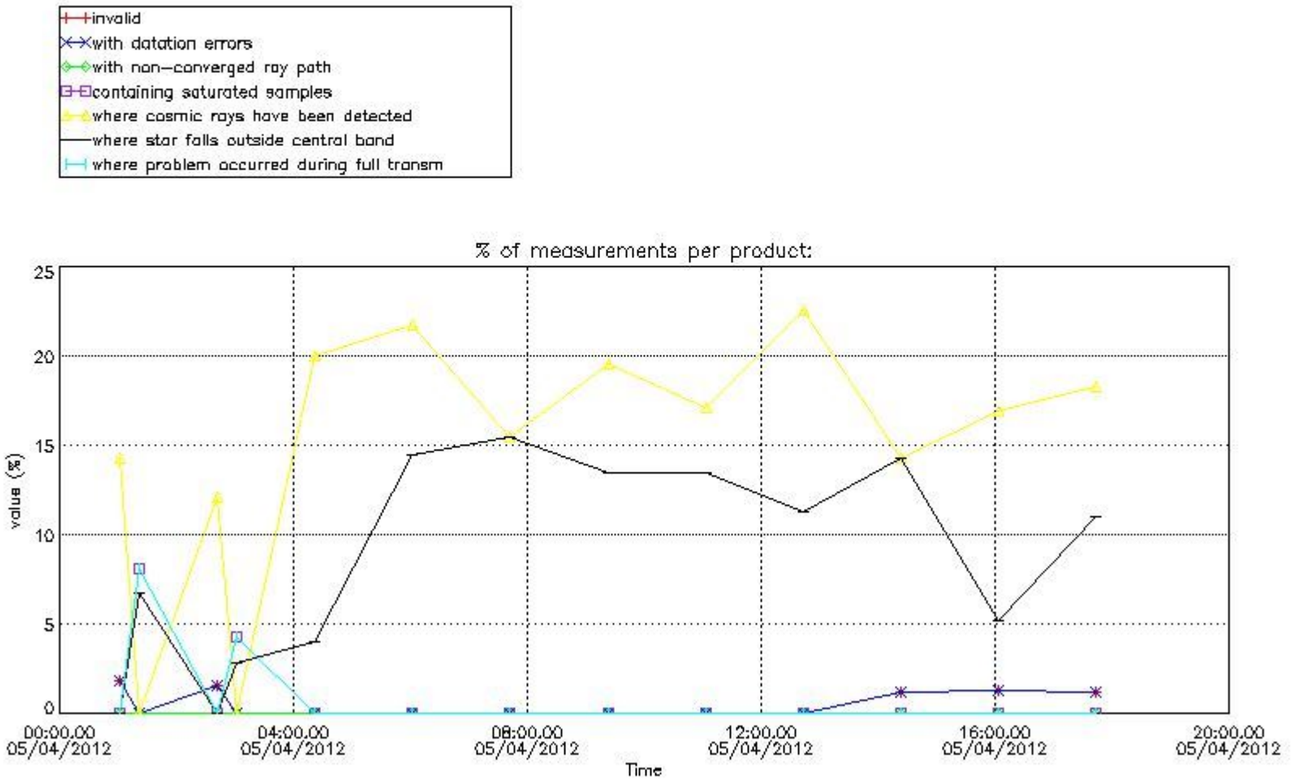
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processsing. Products without errors (error flag in the MPH set to "0") are used.

4.1 Plot quality information per product (time dependant) comming from level 1b processing

4.1.1 Plot level 1 quality information per product (time dependant): ENVISAT ASCENDING passes

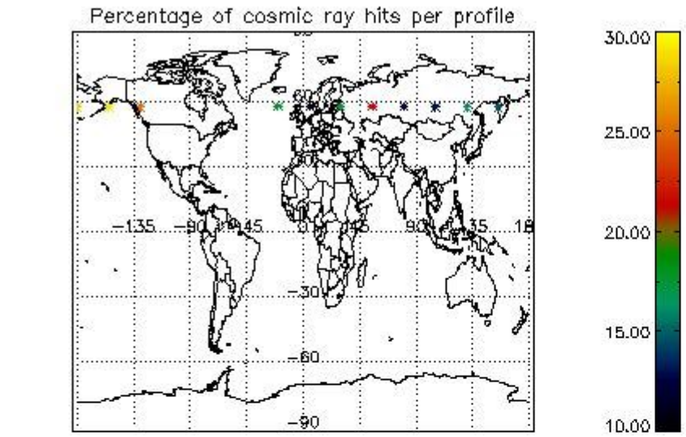


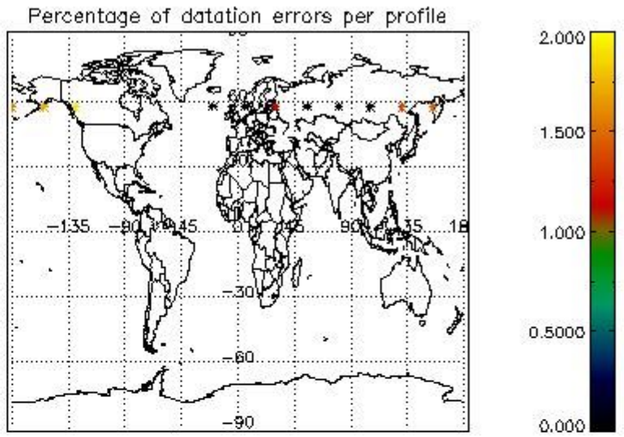
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

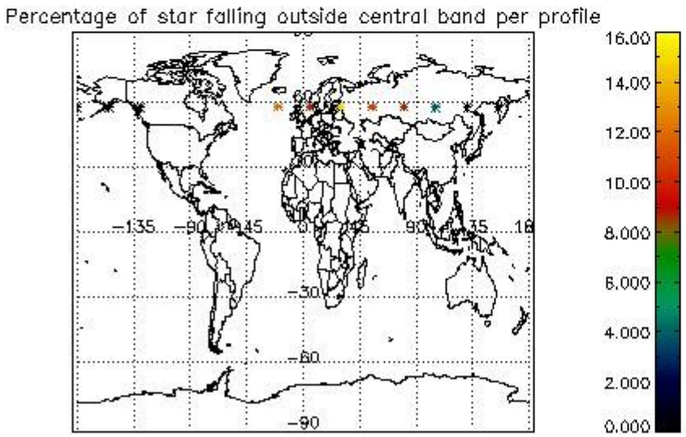


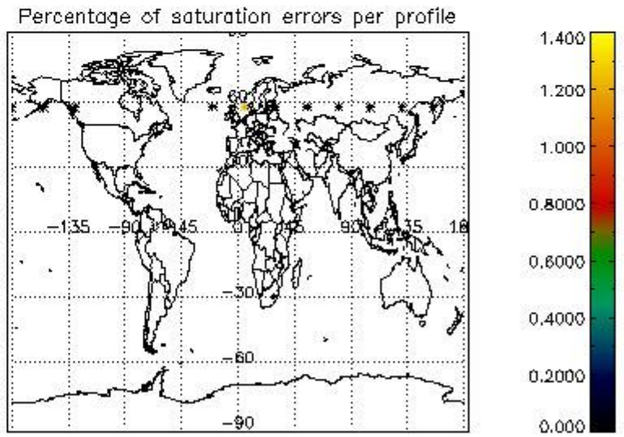
4.2 Plot quality information per product comming from level 1b processing (world map)

4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes



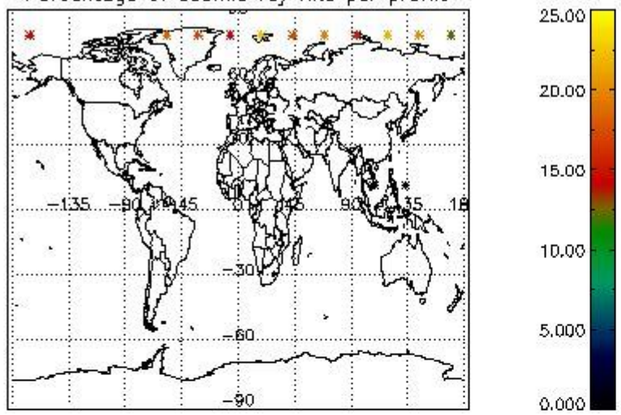




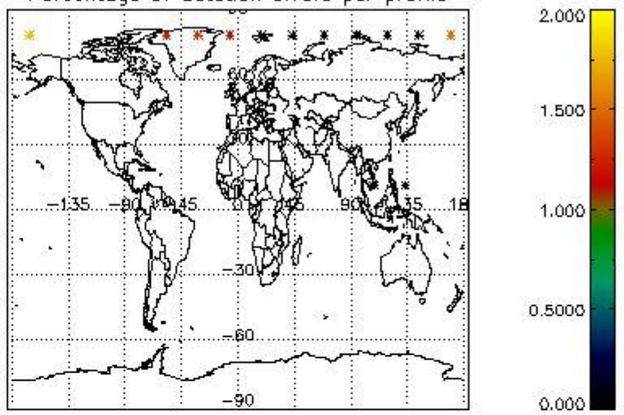


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

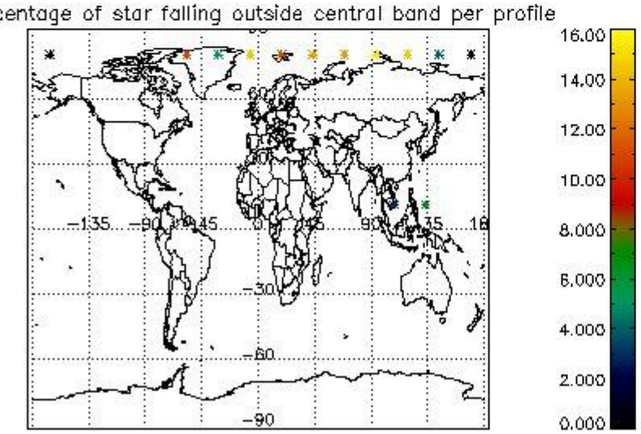
Percentage of cosmic ray hits per profile



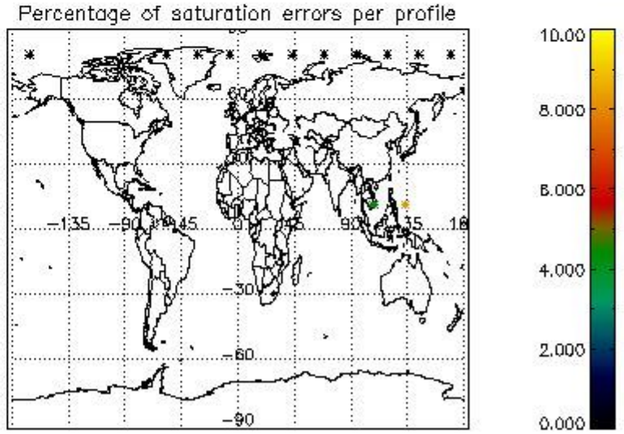
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



6. Auxiliary Data Files used for the production reported in section 2

The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20111213_163131_20111215_000000_20500101_000000	1	05-APR-2012 01:01:31
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	05-APR-2012 01:01:31
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	05-APR-2012 01:01:31

GOMOS Level 2 Daily Report

SUMMARY

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2. Summary of processed GOM_NL__2P products

3. Level 2 Quality information per product
   - 3.1 Plot of level 2 quality information per product (time dependant)
   - 3.2 Plot of level 2 quality information per product (world map)

4. Level 1 Quality information per product (stored on level 2 products)
   - 4.1 Plot of level 1 quality information per product (time dependant)
     - 4.1.1 Plot of level 1 quality information per product (time dependant): ASCENDING
     - 4.1.2 Plot of level 1 quality information per product (time dependant): DESCENDING
   - 4.2 Plot of level 1 quality information per product (world map)
     - 4.2.1 Plot of level 1 quality information per product (world map): ASCENDING
     - 4.2.2 Plot of level 1 quality information per product (world map): DESCENDING

5. Ozone profiles based on quality statistics and other trace gas profiles

   - 5.1 Ozone statistics based on quality of products

   - 5.2 Plot ozone profiles for all STD (dark without errors)

   - 5.3 Plot ozone profiles where STD < 20% (dark without errors)

   - 5.4. Plot ozone profiles where STD < 10% (dark without errors)

   - 5.5. Plot ozone profiles where STD < 5% (dark without errors)

   - 5.6 Plot NO2 profiles for all STD (dark without errors)

   - 5.7 Plot NO3 profiles for all STD (dark without errors)

   - 5.8 Plot H2O profiles (only for occultations of stars 1,2,3,4,13,14,16,26,63 dark without errors) for all STD

6. Auxiliary Data Files used for the production reported in section 2

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1. General info

This report presents the daily analysis on parameters extracted from GOMOS level 2 data (GOM_NL__2P).
It is intended to monitor some important parameters that will impact the quality of these products.
A list of level 2 products (and content) that have arrived during the reporting day to the PCF is also given.

Item	Value
Time of report generation	18APR2013 14:14:54
Data source version	GOMOS/6.01
Start time of products	05-04-2012 (05APR2012 00:00:00)
Stop time of products	06-04-2012 (06APR2012 00:00:00)
Store outputs in DB	Yes
Nb of level 2 prods	24
Nb of prods with errors	0

2. Summary of processed GOM_NL__2P products.

!Warning: No products without errors in DARK limb contitions found

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_NL__2PRFIN20120405_010131_000000283113_00218_52818_3275.N1	05-APR-2012 01:01:31	Twi_and_stray	28.000	163	7Del Crv	2.9450	11000.	56	52818	No
2	GOM_NL__2PRFIN20120405_012156_000000373113_00218_52818_3276.N1	05-APR-2012 01:21:56	Bright	37.000	87	64Gam UMa	2.4330	11000.	74	52818	No
3	GOM_NL__2PRFIN20120405_024145_000000333113_00219_52819_3291.N1	05-APR-2012 02:41:45	Twi_and_stray	33.000	163	7Del Crv	2.9450	11000.	66	52819	No
4	GOM_NL__2PRFIN20120405_030210_000000353113_00219_52819_3292.N1	05-APR-2012 03:02:10	Bright	35.000	87	64Gam UMa	2.4330	11000.	70	52819	No
5	GOM_NL__2PRFIN20120405_042159_000000383113_00220_52820_3422.N1	05-APR-2012 04:21:59	Twi_and_stray	37.500	163	7Del Crv	2.9450	11000.	75	52820	No
6	GOM_NL__2PRFIN20120405_055149_000000263113_00221_52821_3431.N1	05-APR-2012 05:51:49	Straylight	26.000	95	Zet Cen	2.5450	26000.	52	52821	No
7	GOM_NL__2PRFIN20120405_060213_000000423113_00221_52821_3432.N1	05-APR-2012 06:02:13	Twi_and_stray	41.500	163	7Del Crv	2.9450	11000.	83	52821	No
8	GOM_NL__2PRFIN20120405_073204_000000293113_00222_52822_3434.N1	05-APR-2012 07:32:04	Straylight	29.000	95	Zet Cen	2.5450	26000.	58	52822	No
9	GOM_NL__2PRFIN20120405_074227_000000423113_00222_52822_3435.N1	05-APR-2012 07:42:27	Twi_and_stray	42.000	163	7Del Crv	2.9450	11000.	84	52822	No
10	GOM_NL__2PRFIN20120405_091218_000000323113_00223_52823_3443.N1	05-APR-2012 09:12:18	Straylight	32.000	95	Zet Cen	2.5450	26000.	64	52823	No
11	GOM_NL__2PRFIN20120405_092241_000000413113_00223_52823_3444.N1	05-APR-2012 09:22:41	Twi_and_stray	41.000	163	7Del Crv	2.9450	11000.	82	52823	No
12	GOM_NL__2PRFIN20120405_105232_000000343113_00224_52824_3453.N1	05-APR-2012 10:52:32	Straylight	34.000	95	Zet Cen	2.5450	26000.	68	52824	No
13	GOM_NL__2PRFIN20120405_110255_000000413113_00224_52824_3454.N1	05-APR-2012 11:02:55	Twi_and_stray	41.000	163	7Del Crv	2.9450	11000.	82	52824	No
14	GOM_NL__2PRFIN20120405_123247_000000373113_00225_52825_3475.N1	05-APR-2012 12:32:47	Straylight	37.000	95	Zet Cen	2.5450	26000.	74	52825	No
15	GOM_NL__2PRFIN20120405_124310_000000403113_00225_52825_3476.N1	05-APR-2012 12:43:10	Twi_and_stray	40.000	163	7Del Crv	2.9450	11000.	80	52825	No
16	GOM_NL__2PRFIN20120405_141301_000000393113_00226_52826_3498.N1	05-APR-2012 14:13:01	Straylight	38.500	95	Zet Cen	2.5450	26000.	77	52826	No
17	GOM_NL__2PRFIN20120405_142324_000000423113_00226_52826_3499.N1	05-APR-2012 14:23:24	Twi_and_stray	42.000	163	7Del Crv	2.9450	11000.	84	52826	No
18	GOM_NL__2PRFIN20120405_155315_000000403113_00227_52827_3507.N1	05-APR-2012 15:53:15	Straylight	40.000	95	Zet Cen	2.5450	26000.	80	52827	No
19	GOM_NL__2PRFIN20120405_160338_000000393113_00227_52827_3508.N1	05-APR-2012 16:03:38	Twi_and_stray	38.500	163	7Del Crv	2.9450	11000.	77	52827	No
20	GOM_NL__2PRFIN20120405_173330_000000423113_00228_52828_3516.N1	05-APR-2012 17:33:30	Straylight	41.500	95	Zet Cen	2.5450	26000.	83	52828	No
21	GOM_NL__2PRFIN20120405_174352_000000413113_00228_52828_3517.N1	05-APR-2012 17:43:52	Twi_and_stray	41.000	163	7Del Crv	2.9450	11000.	82	52828	No
22	GOM_NL__2PRFIN20120405_191344_000000443113_00229_52829_3525.N1	05-APR-2012 19:13:44	Straylight	44.000	95	Zet Cen	2.5450	26000.	88	52829	No
23	GOM_NL__2PRFIN20120405_205358_000000413113_00230_52830_3540.N1	05-APR-2012 20:53:58	Straylight	40.500	95	Zet Cen	2.5450	26000.	81	52830	No
24	GOM_NL__2PRFIN20120405_223413_000000423113_00231_52831_3543.N1	05-APR-2012 22:34:13	Straylight	42.000	95	Zet Cen	2.5450	26000.	84	52831	No

3. Quality information per product

In this section it is plotted some information contained in the Quality Summary data set of the level 2 products. Only products in dark limb conditions and without errors (error flag in the MPH set to "0") are used.

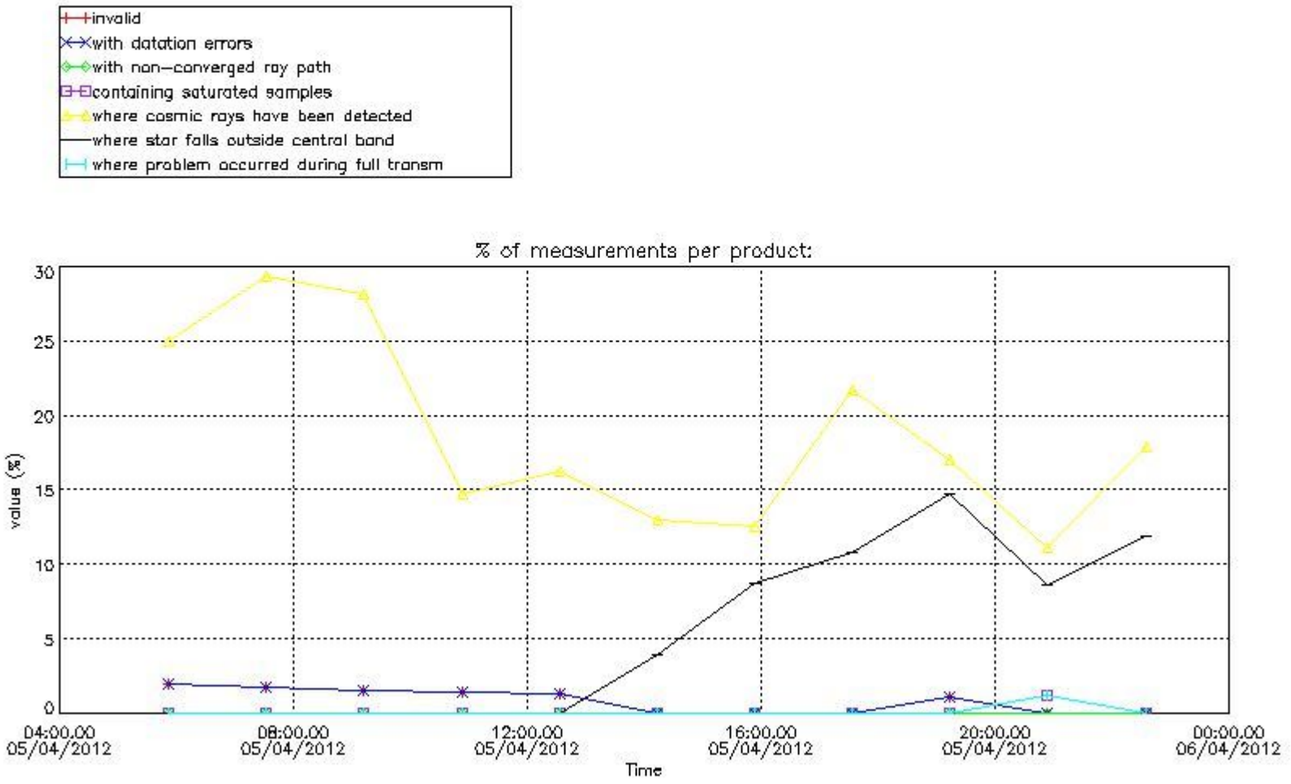
3.1 Plot quality information per product (time dependant)

4. Level 1 quality information per product

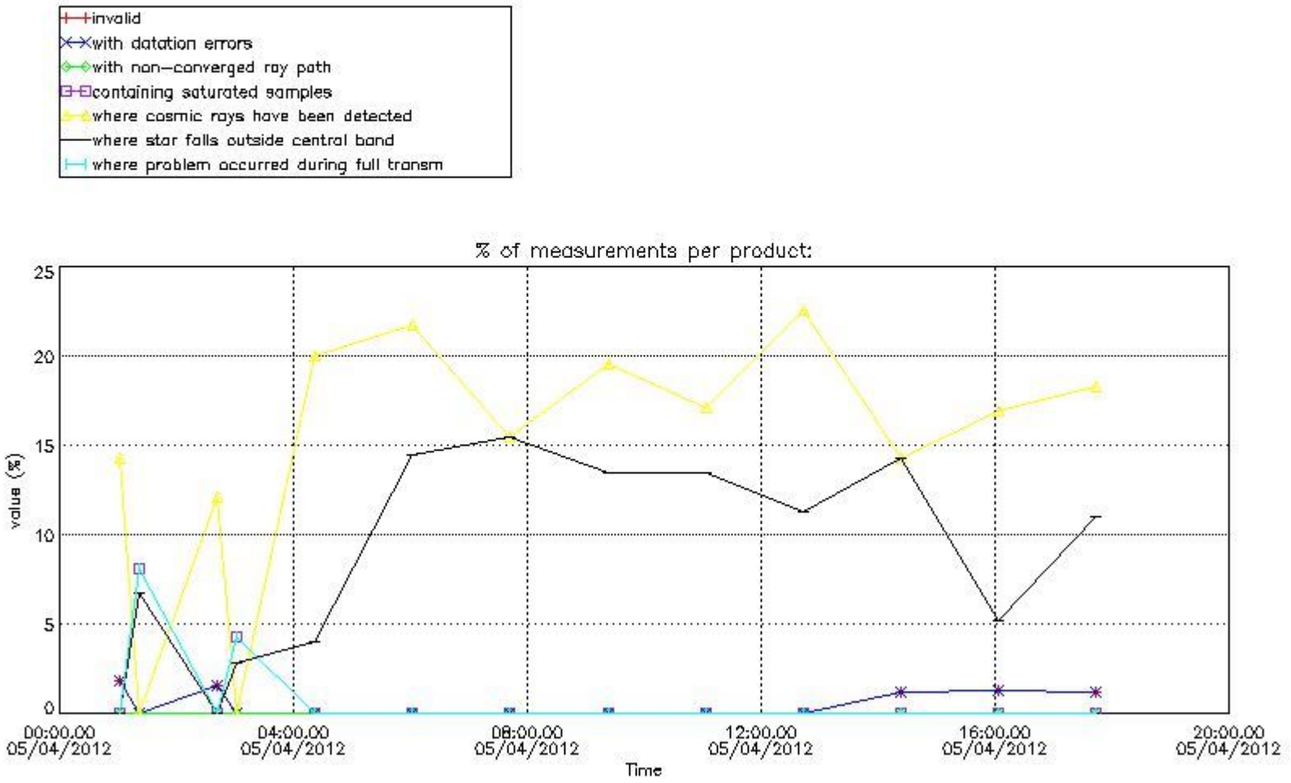
In this section it is plotted some information contained in the Quality Summary data set of the level 2 products that comes from the level 1b processsing. Products without errors (error flag in the MPH set to "0") are used.

4.1 Plot quality information per product (time dependant) comming from level 1b processing

4.1.1 Plot level 1 quality information per product (time dependant): ENVISAT ASCENDING passes

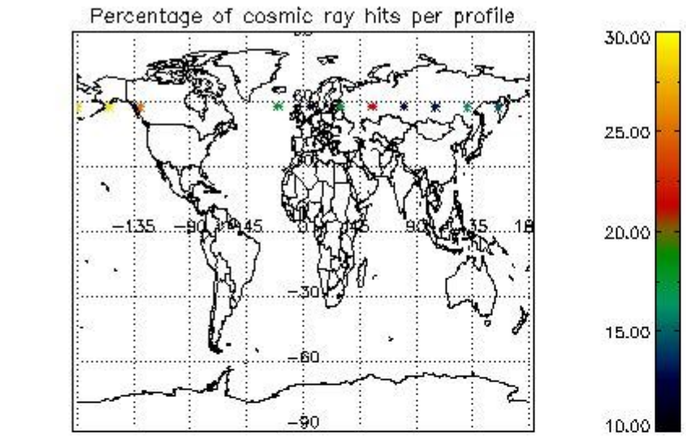


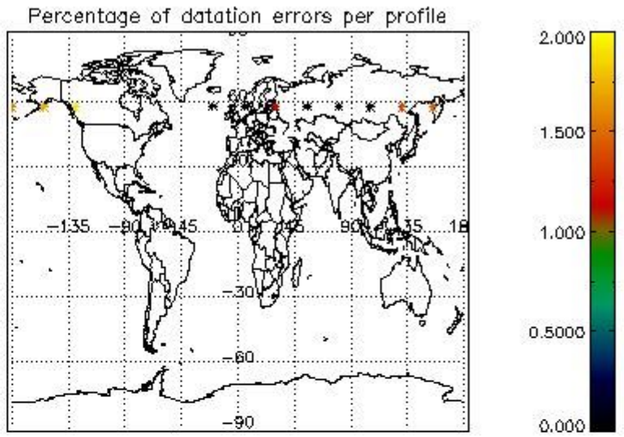
4.1.2 Plot level 1 quality information per product (time dependant): ENVISAT DESCENDING passes

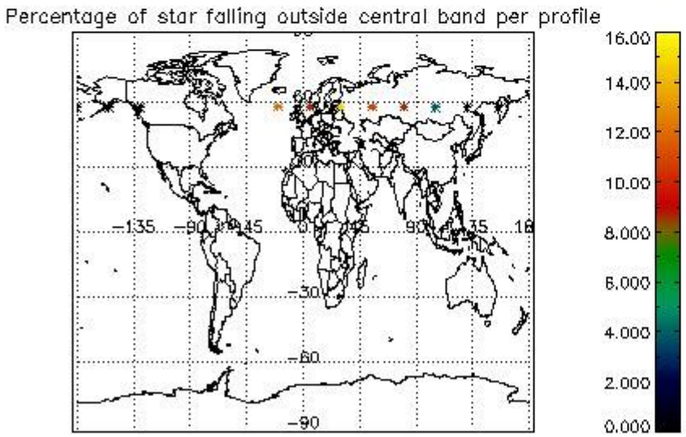


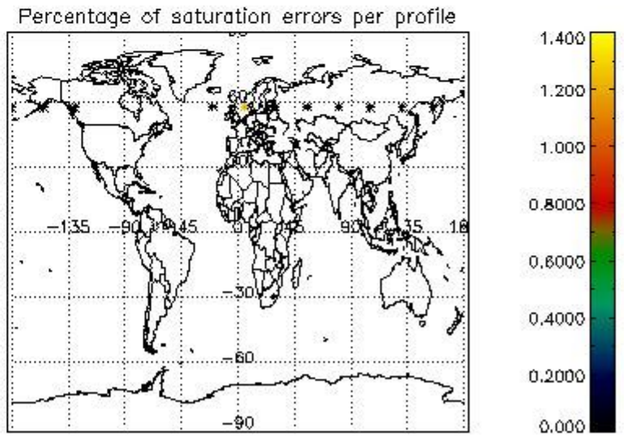
4.2 Plot quality information per product comming from level 1b processing (world map)

4.2.1 Plot level 1 quality information per product (world map): ENVISAT ASCENDING passes



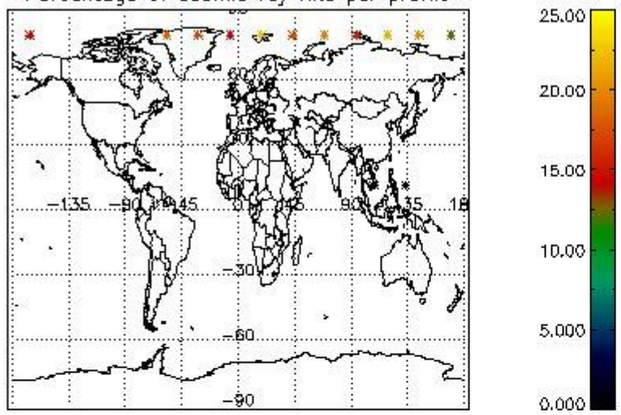




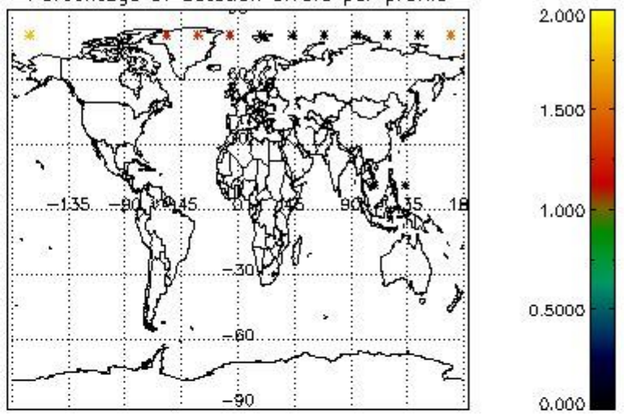


4.2.2 Plot level 1 quality information per product (world map): ENVISAT DESCENDING passes

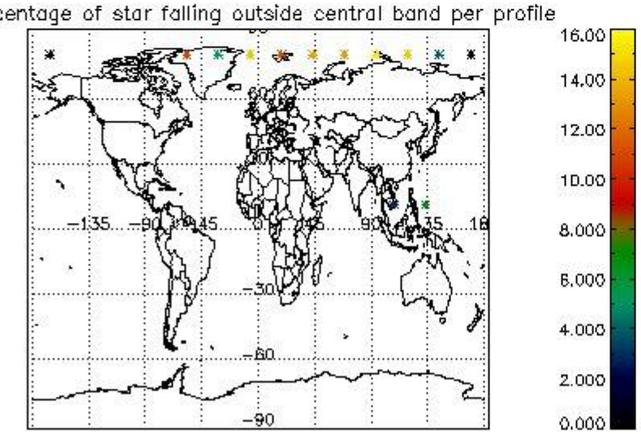
Percentage of cosmic ray hits per profile



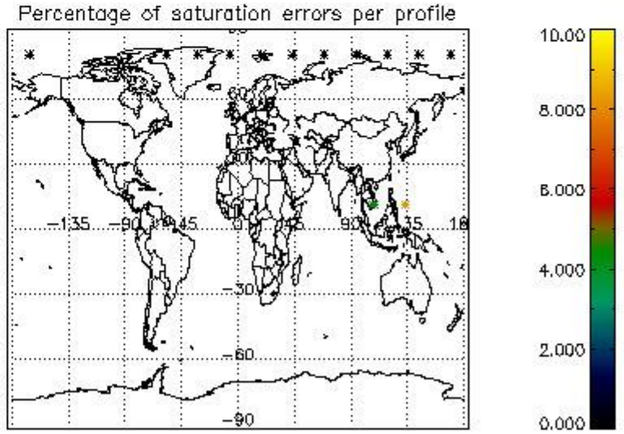
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



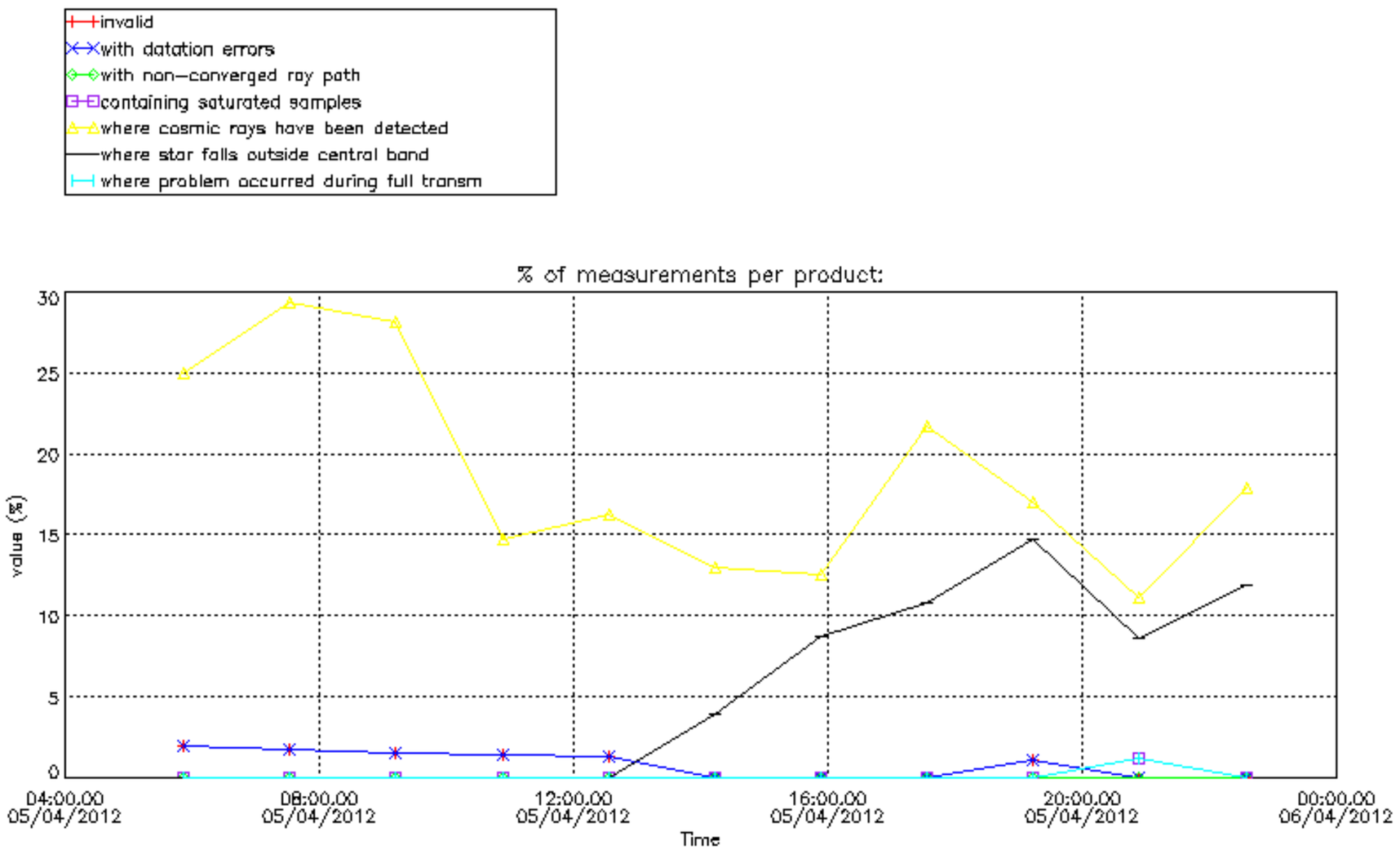
Percentage of saturation errors per profile

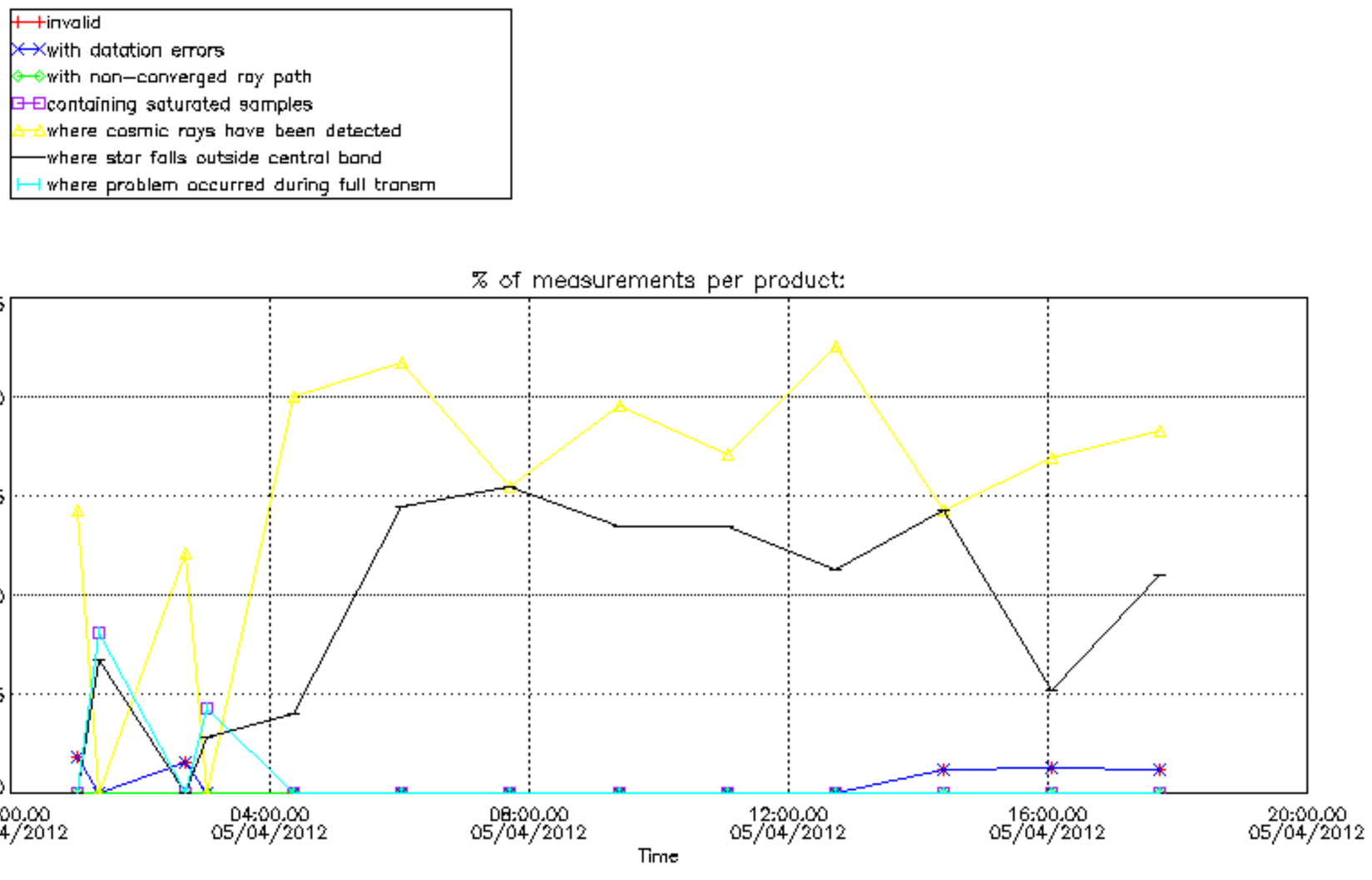


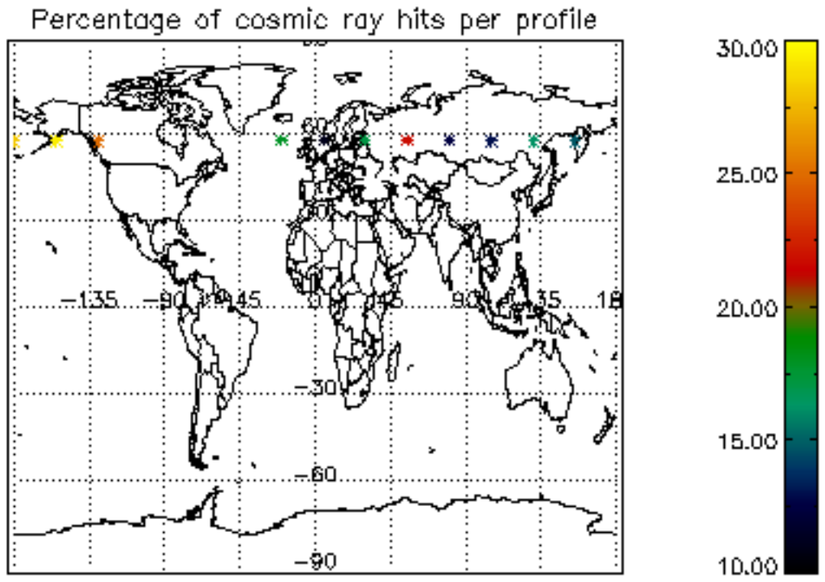
6. Auxiliary Data Files used for the production reported in section 2

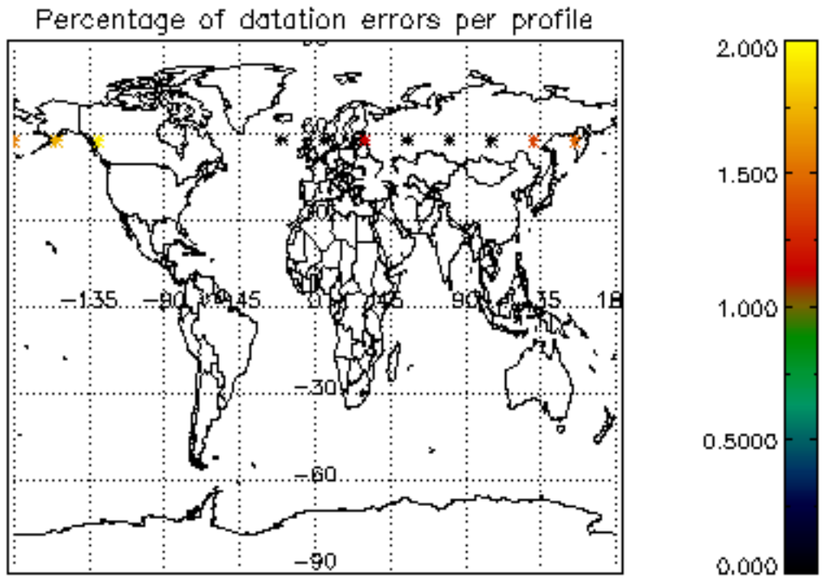
The number reported in the third column indicates since which file (see list in section 2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

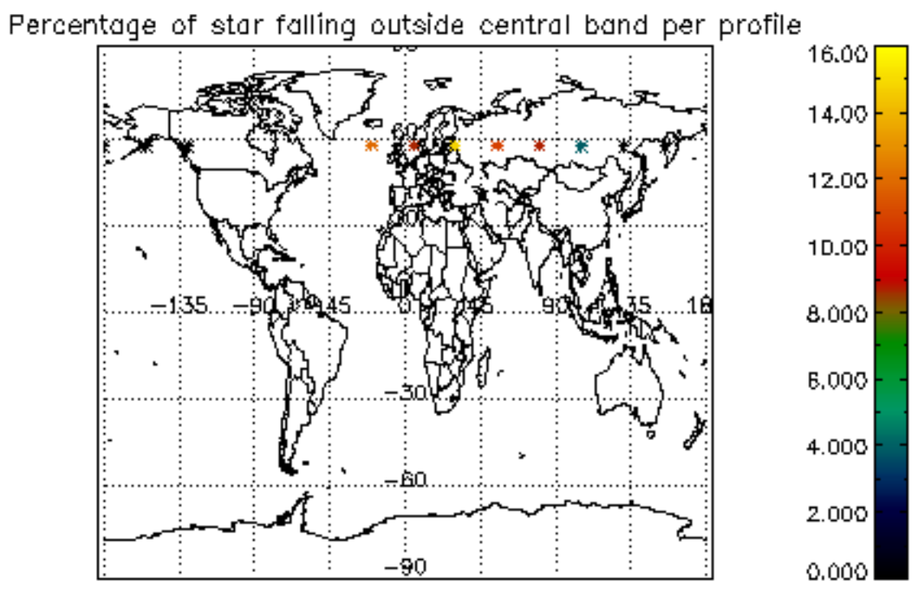
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20111213_163131_20111215_000000_20500101_000000	1	05-APR-2012 01:01:31
LEVEL-2_PROC_CONFIG	GOM_PR2_AXVIEC20091111_152718_20020301_000000_20500101_000000	1	05-APR-2012 01:01:31
CROSS_SECTIONS_FILE	GOM_CRS_AXVIEC20091111_154832_20020301_000000_20500101_000000	1	05-APR-2012 01:01:31

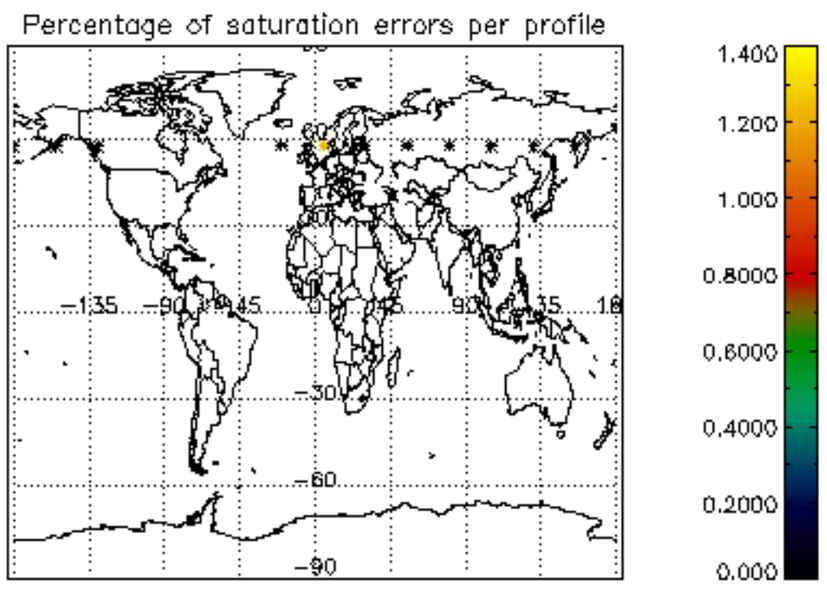

invalid
with datation errors
with non-converged ray path
containing saturated samples
where cosmic rays have been detected
where star falls outside central band
where problem occurred during full transm
% of measurements per product:
value (%)
30
25
20
15
10
5
0
04:00.00
05/04/2012
08:00.00
05/04/2012
12:00.00
05/04/2012
16:00.00
05/04/2012
20:00.00
05/04/2012
00:00.00
06/04/2012
Time


invalid
with datation errors
with non-converged ray path
containing saturated samples
where cosmic rays have been detected
where star falls outside central band
where problem occurred during full transm
% of measurements per product:
25
20
15
10
5
0
value (%)
00:00.00
05/04/2012
04:00.00
05/04/2012
08:00.00
05/04/2012
12:00.00
05/04/2012
16:00.00
05/04/2012
20:00.00
05/04/2012
Time

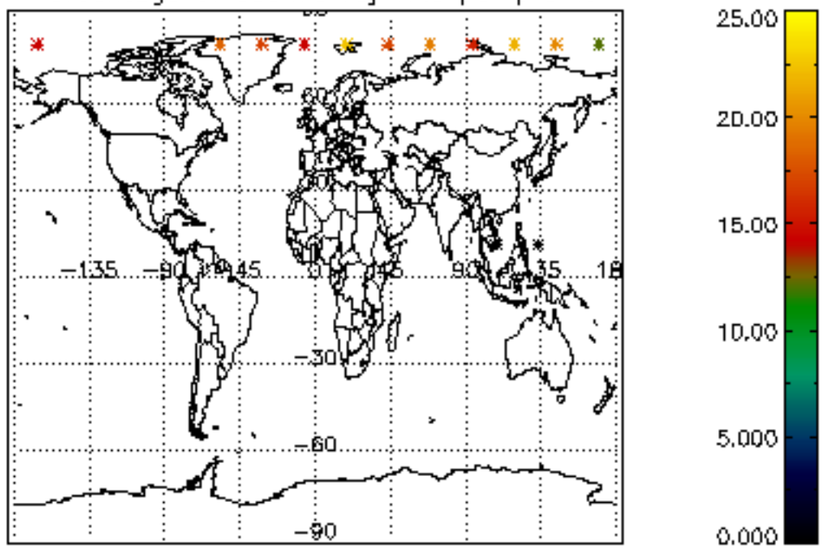

Percentage of cosmic ray hits per profile
30.00
25.00
20.00
15.00
10.00
−135
−90
−30
−60
−90


Percentage of datation errors per profile
2.000
1.500
1.000
0.5000
0.000
−135
−90
−30
−60
−90

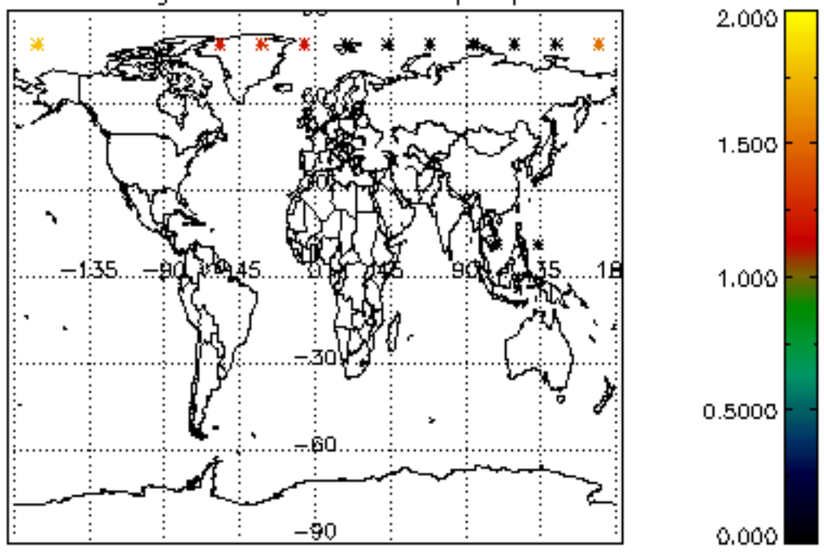

Percentage of star falling outside central band per profile
16.00
14.00
12.00
10.00
8.000
6.000
4.000
2.000
0.000
−135
−90
−30
−60
−90


Percentage of saturation errors per profile
1.400
1.200
1.000
0.8000
0.6000
0.4000
0.2000
0.000
−135
−90
−30
−60
−90

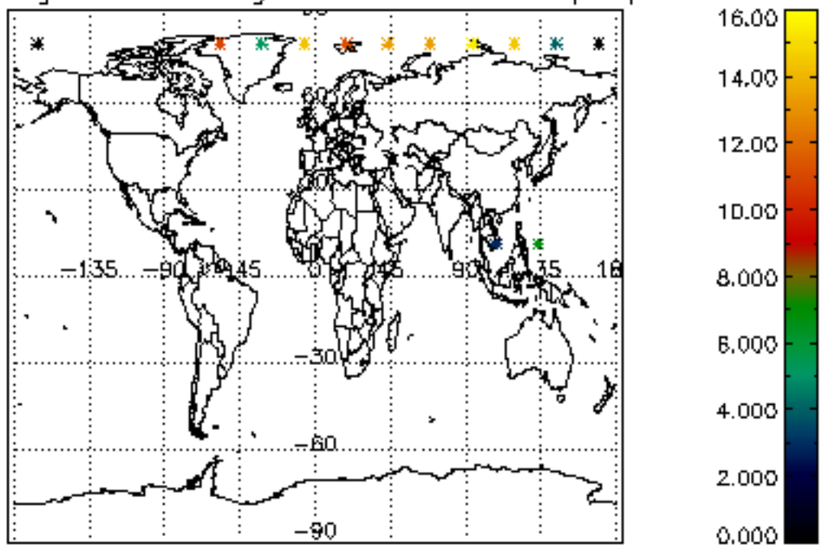
Percentage of cosmic ray hits per profile



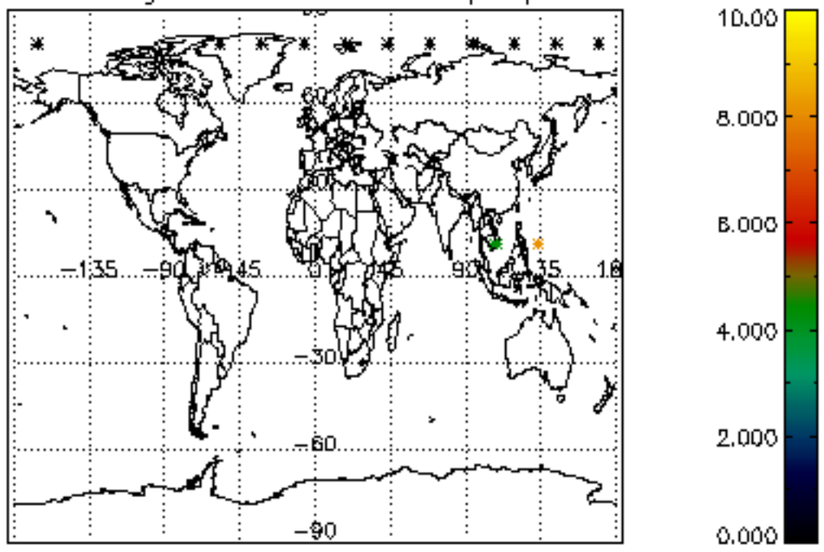
Percentage of datation errors per profile

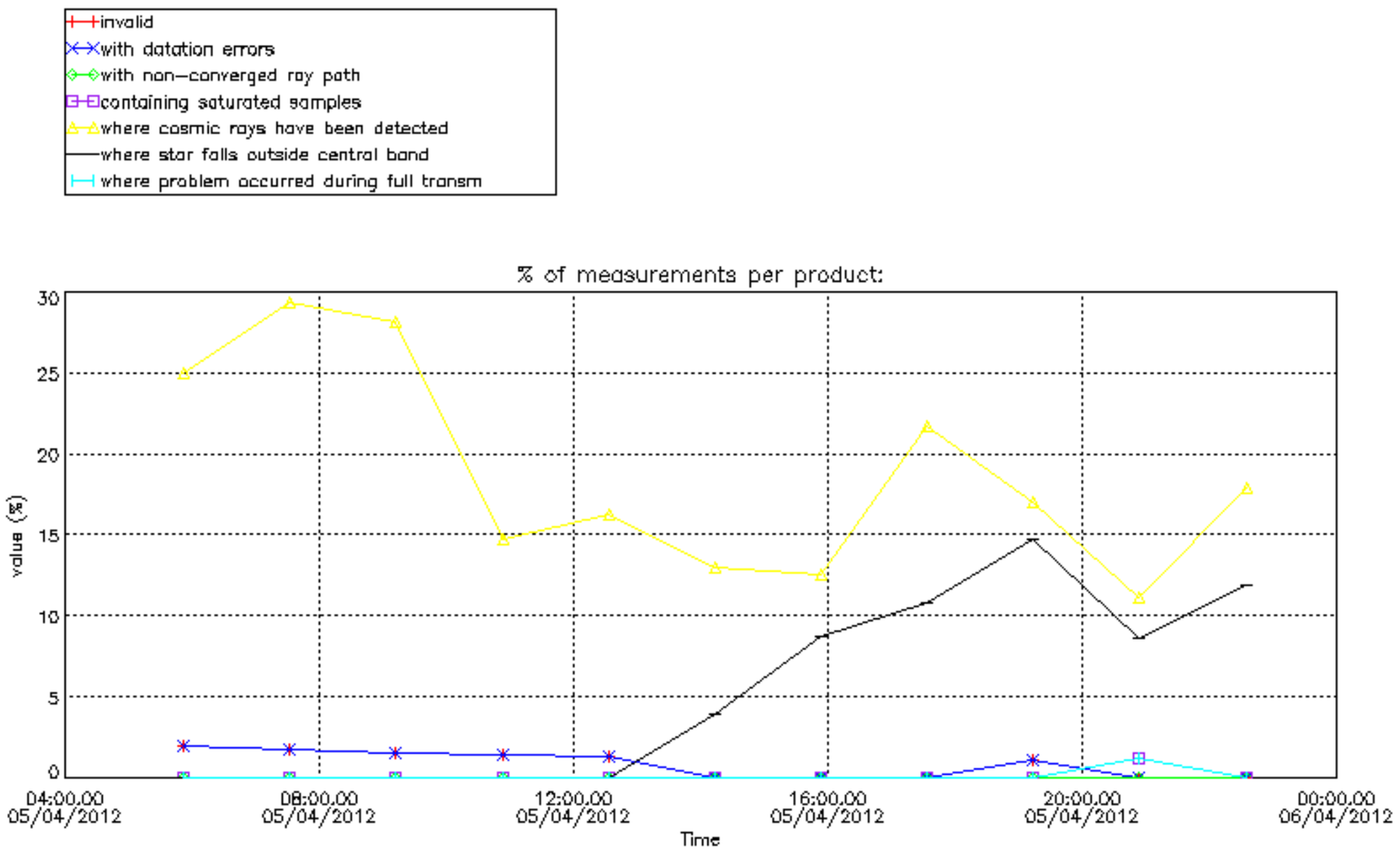


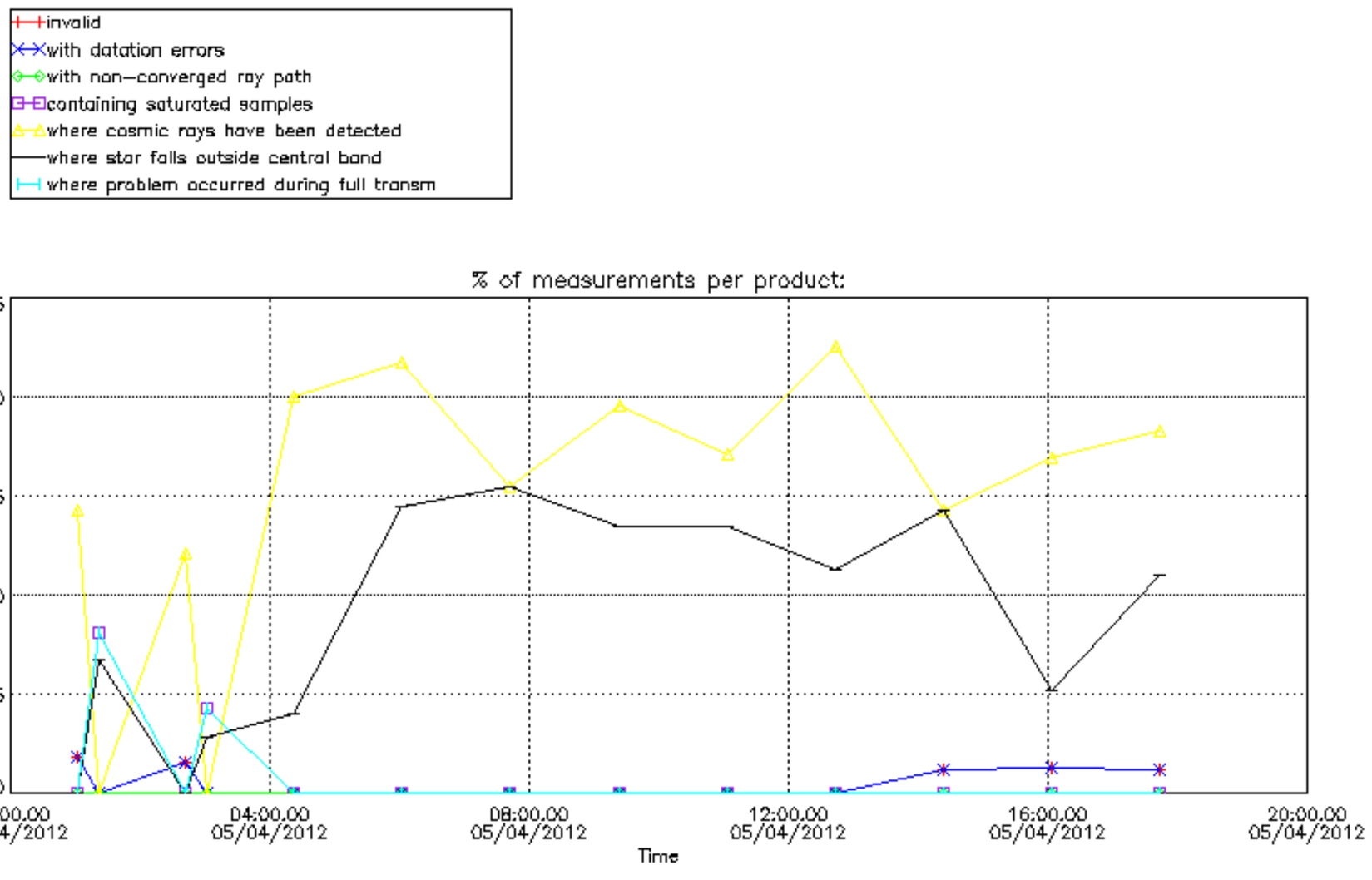
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile




invalid
with datation errors
with non-converged ray path
containing saturated samples
where cosmic rays have been detected
where star falls outside central band
where problem occurred during full transm
% of measurements per product:
value (%)
30
25
20
15
10
5
0
04:00.00
05/04/2012
08:00.00
05/04/2012
12:00.00
05/04/2012
16:00.00
05/04/2012
20:00.00
05/04/2012
00:00.00
06/04/2012
Time


invalid
with datation errors
with non-converged ray path
containing saturated samples
where cosmic rays have been detected
where star falls outside central band
where problem occurred during full transm
% of measurements per product:
25
20
15
10
5
0
value (%)
00:00.00
05/04/2012
04:00.00
05/04/2012
08:00.00
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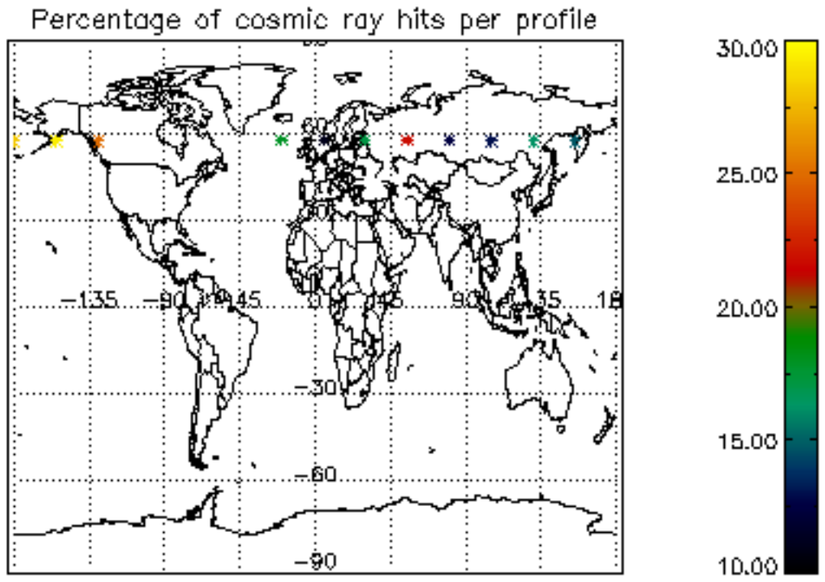
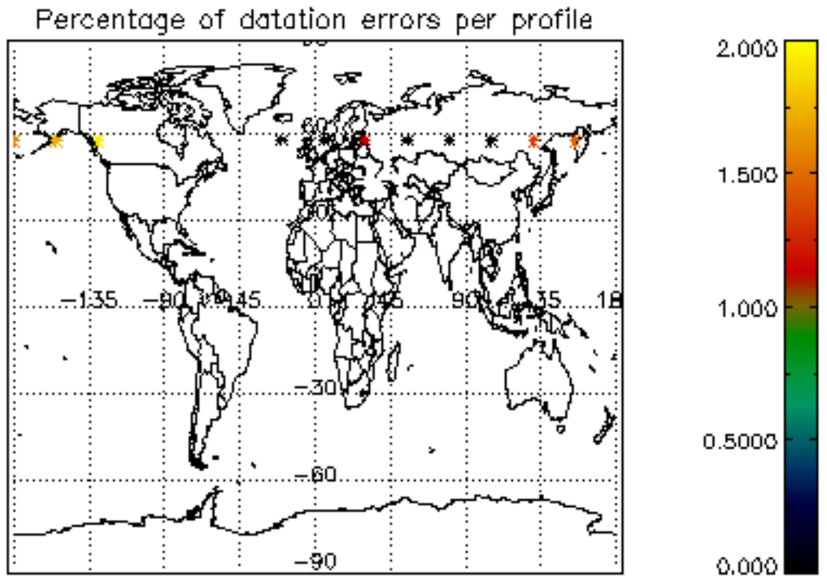
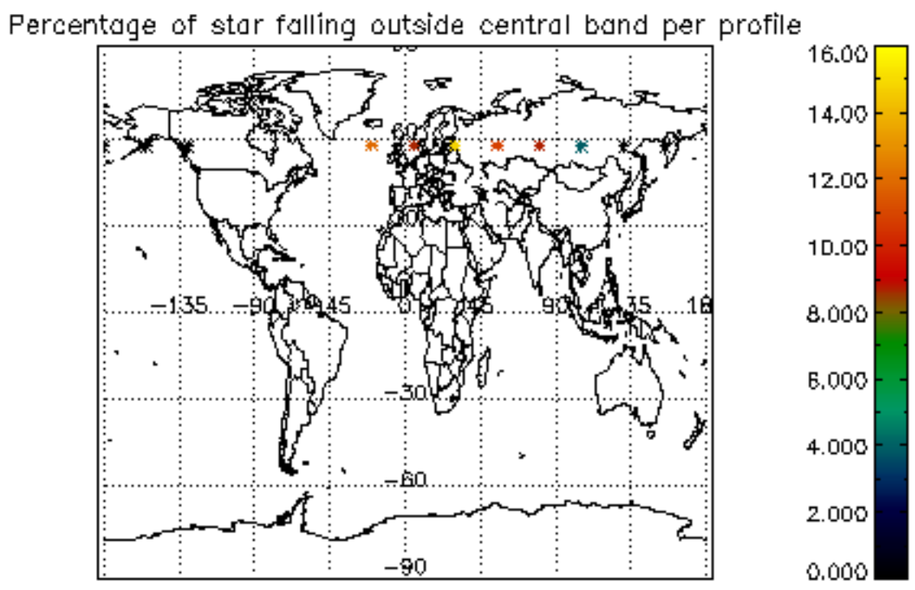
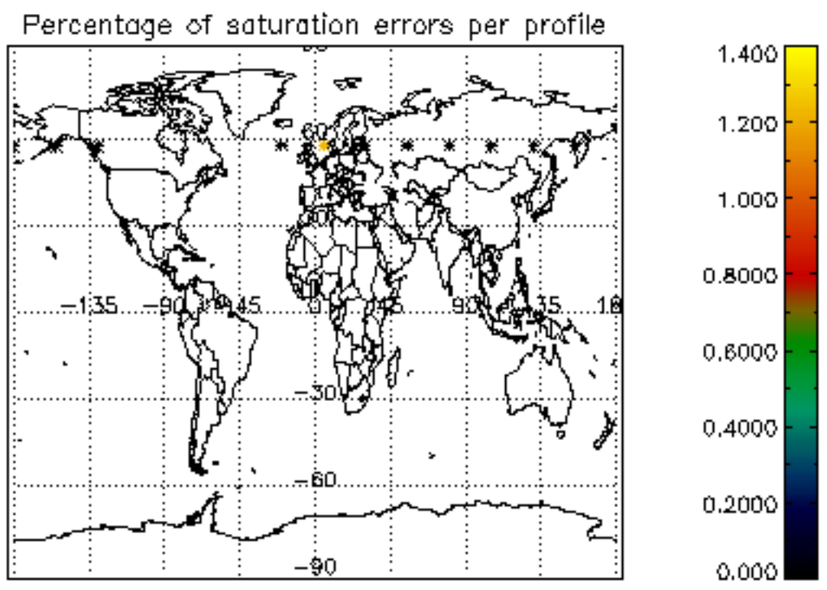
20:00.00
05/04/2012
Time

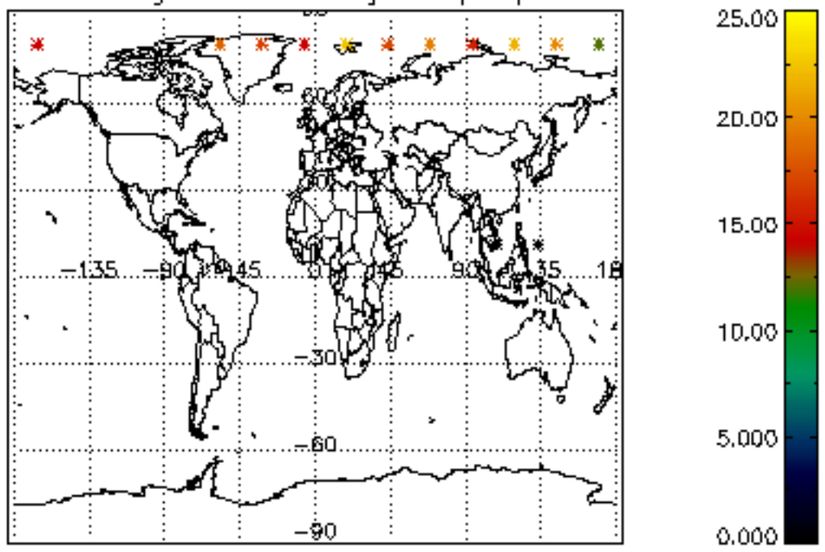

Percentage of cosmic ray hits per profile
30.00
25.00
20.00
15.00
10.00
−135
−90
−30
−60
−90


Percentage of datation errors per profile
2.000
1.500
1.000
0.5000
0.000
−135
−90
−30
−60
−90

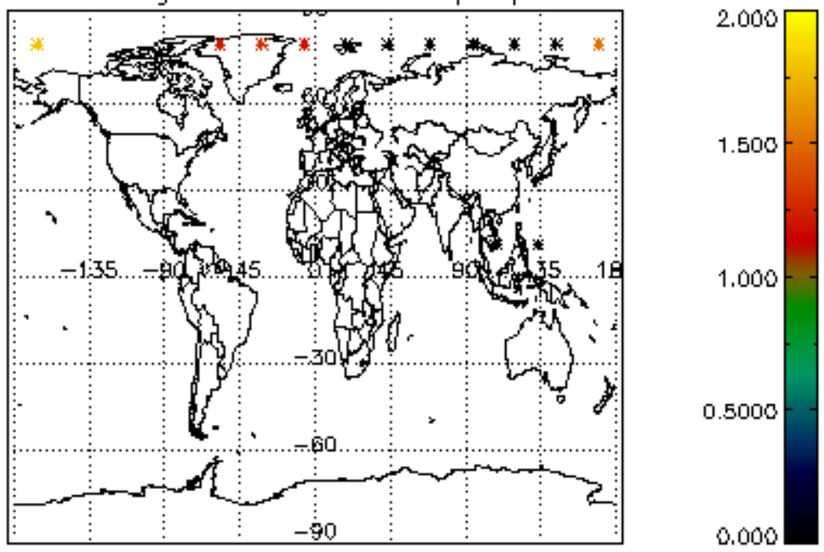

Percentage of star falling outside central band per profile
16.00
14.00
12.00
10.00
8.000
6.000
4.000
2.000
0.000
−135
−90
−30
−60
−90


Percentage of saturation errors per profile
1.400
1.200
1.000
0.8000
0.6000
0.4000
0.2000
0.000
−135
−90
−30
−60
−90

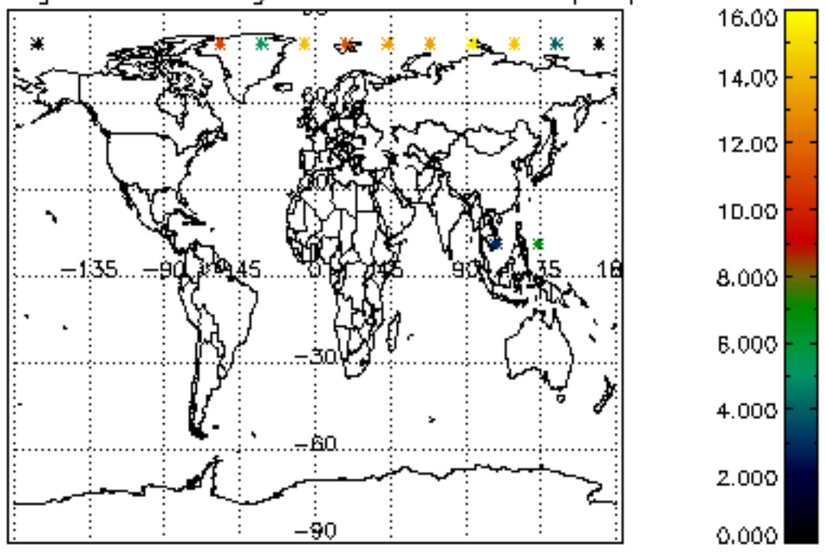
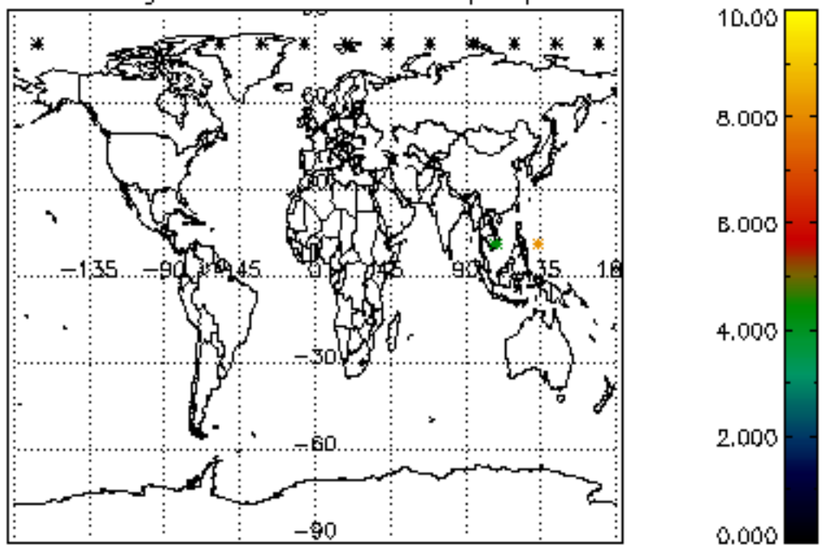
Percentage of cosmic ray hits per profile



Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile