

GOMOS Daily Report 07-APR-2012

Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	09APR2012 07:00:28
Data source version	GOMOS/6.01
Start time of products	07APR2012 13:03:24
Stop time of products	07APR2012 23:04:49
Store outputs in DB	Yes
Nb of level 1b prods	7
Nb of prods with errors	0

2. Summary of products arrived in PCF (Product Control Facility)

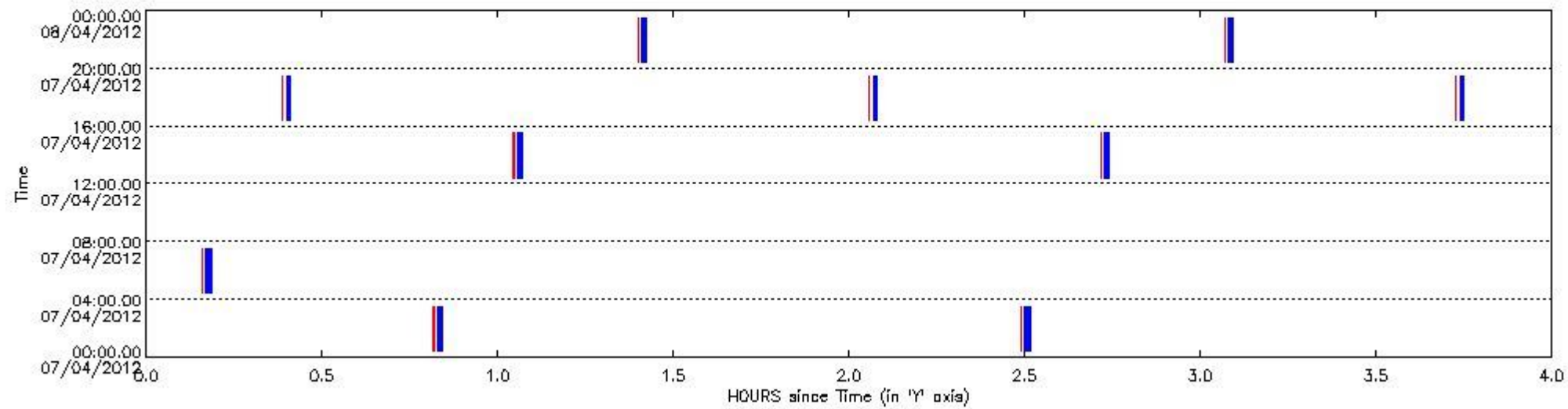
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
07-APR-2012 00:49:02	DSA1038	0	52846
07-APR-2012 02:29:17	DSA1038	0	52847
07-APR-2012 04:09:31	DSA1038	0	52848
07-APR-2012 13:02:41	lotCen	0	52854
07-APR-2012 14:42:56	lotCen	0	52855
07-APR-2012 16:23:10	lotCen	0	52856
07-APR-2012 18:03:24	lotCen	0	52857
07-APR-2012 19:43:38	lotCen	0	52858
07-APR-2012 21:23:52	lotCen	0	52859
07-APR-2012 23:04:07	lotCen	0	52860

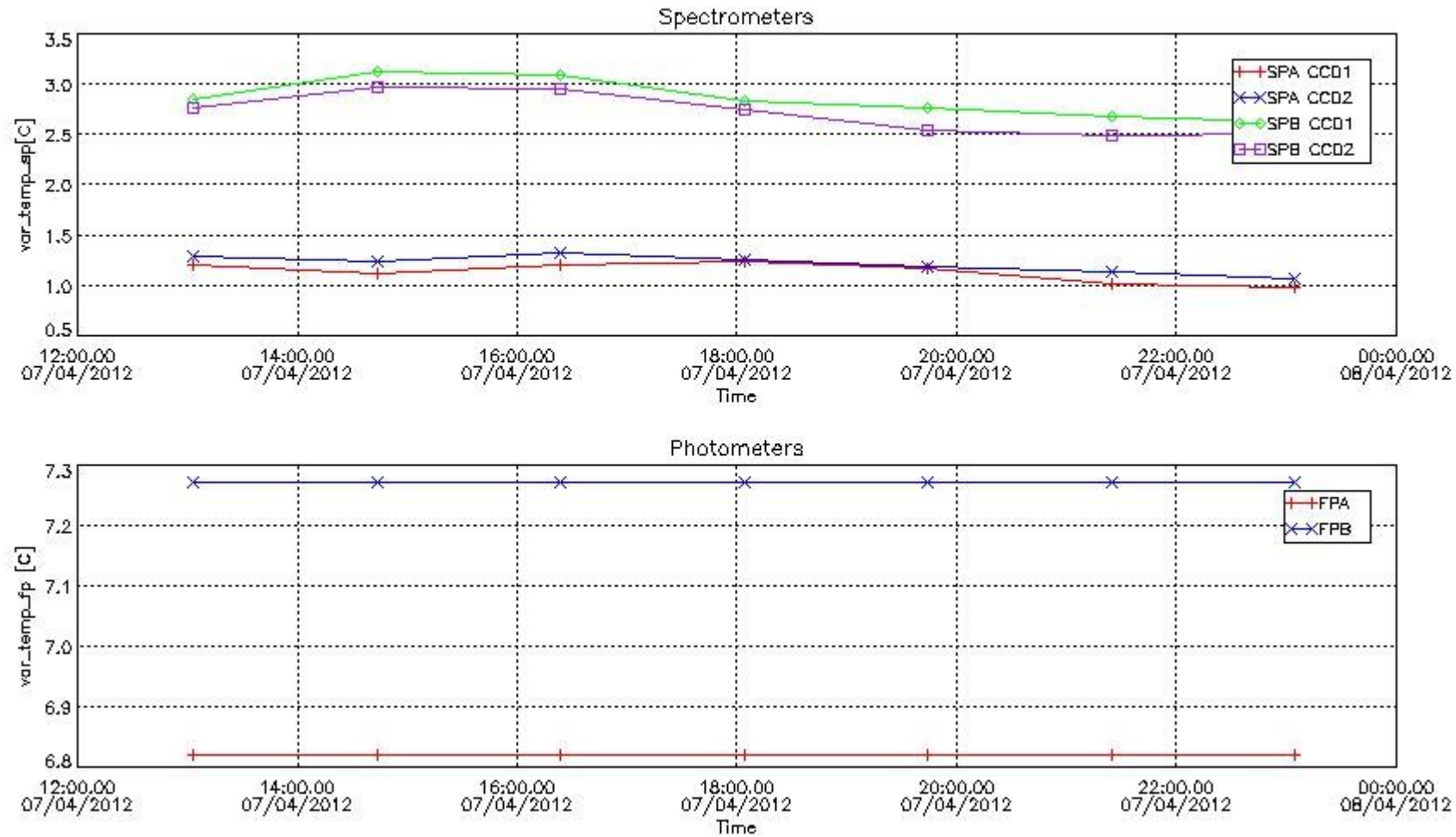
2.4 Summary of processed GOM_TRA_1P products

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

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
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1	GOM_TRA_1PNPDK20120407_130324_000000403113_00254_52854_4881.N1	07-APR-2012 13:03:24	Straylight	39.500	123	lot Cen	2.7500	10200.	79	52854	No
2	GOM_TRA_1PNPDK20120407_144338_000000413113_00255_52855_4923.N1	07-APR-2012 14:43:38	Straylight	40.500	123	lot Cen	2.7500	10200.	81	52855	No
3	GOM_TRA_1PNPDK20120407_162353_000000413113_00256_52856_4986.N1	07-APR-2012 16:23:53	Straylight	40.500	123	lot Cen	2.7500	10200.	81	52856	No
4	GOM_TRA_1PNPDK20120407_180407_000000433113_00257_52857_5017.N1	07-APR-2012 18:04:07	Straylight	42.500	123	lot Cen	2.7500	10200.	85	52857	No
5	GOM_TRA_1PNPDK20120407_194421_000000423113_00258_52858_5049.N1	07-APR-2012 19:44:21	Straylight	41.500	123	lot Cen	2.7500	10200.	83	52858	No
6	GOM_TRA_1PNPDE20120407_212435_000000423113_00259_52859_7657.N1	07-APR-2012 21:24:35	Straylight	42.000	123	lot Cen	2.7500	10200.	84	52859	No
7	GOM_TRA_1PNPDE20120407_230449_000000393113_00260_52860_7692.N1	07-APR-2012 23:04:49	Straylight	38.500	123	lot Cen	2.7500	10200.	77	52860	No

3. Plot of GOMOS spectrometers and photometers temperatures from level 1b data



4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDK20120407_130324_000000403113_00254_52854_4881.N1	DC map used
GOM_TRA_1PNPDK20120407_144338_000000413113_00255_52855_4923.N1	DC map used
GOM_TRA_1PNPDK20120407_162353_000000413113_00256_52856_4986.N1	DC map used

GOM_TRA_1PNPDK20120407_180407_000000433113_00257_52857_5017.N1	DC map used
GOM_TRA_1PNPDK20120407_194421_000000423113_00258_52858_5049.N1	DC map used
GOM_TRA_1PNPDE20120407_212435_000000423113_00259_52859_7657.N1	DC map used
GOM_TRA_1PNPDE20120407_230449_000000393113_00260_52860_7692.N1	DC map used

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used

No products without errors in DARK limb conditions found. No plot performed.

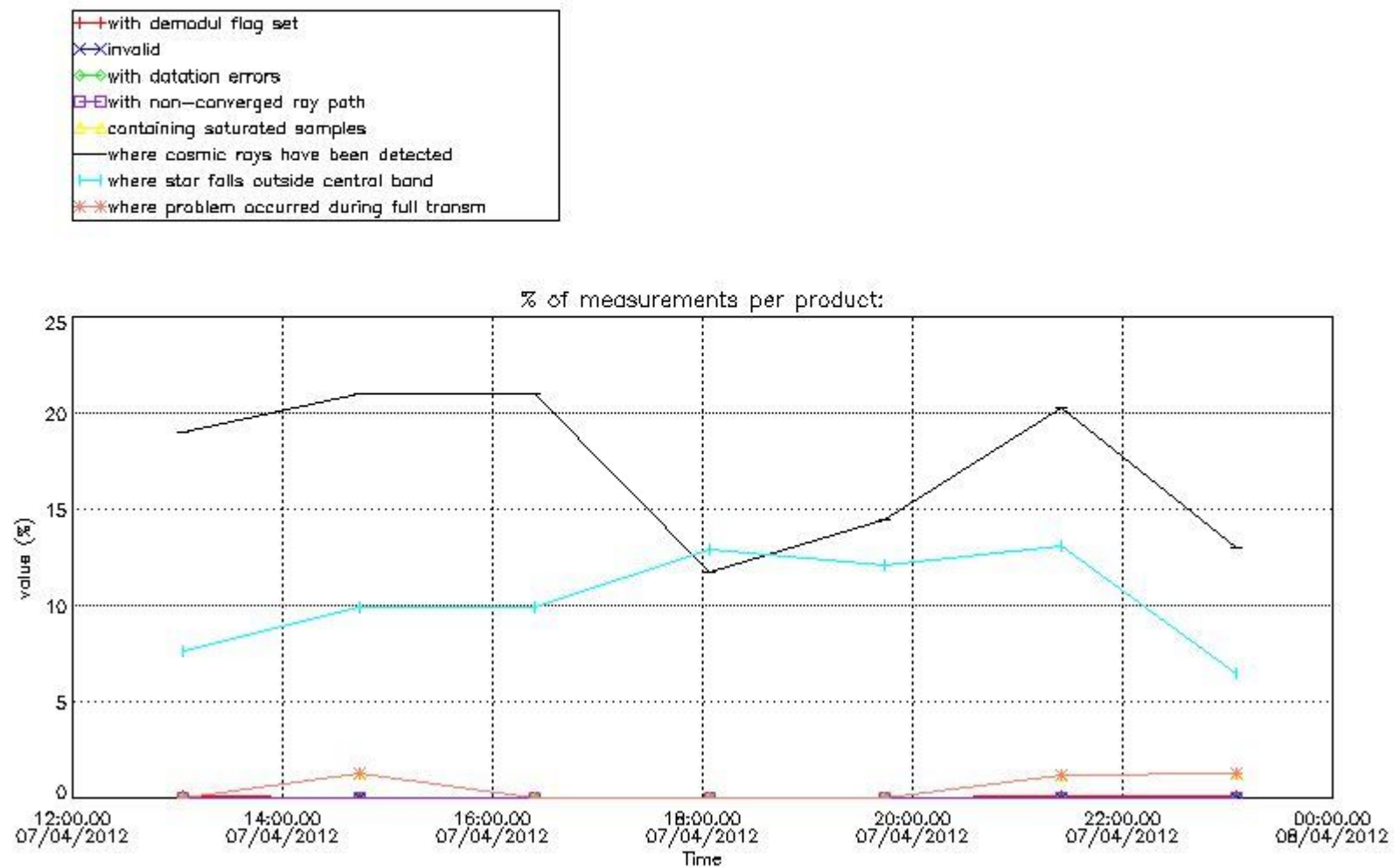
5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

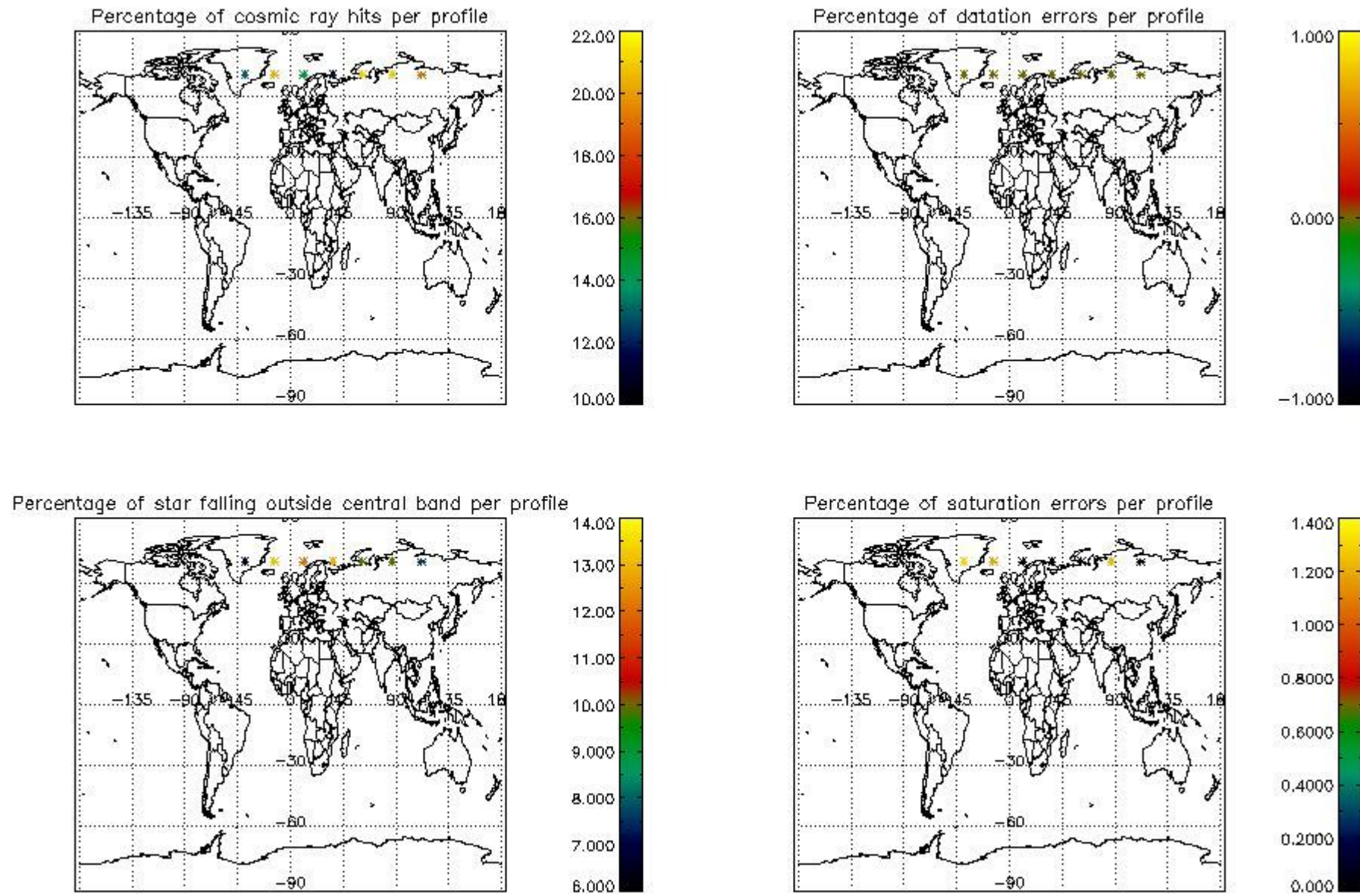
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	100.000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	NaN	NaN	NaN
St. deviation:	NaN	NaN	NaN
Maximum:	NaN	NaN	NaN
Minimum:	NaN	NaN	NaN
Number of data:	NaN	NaN	NaN

7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.

7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

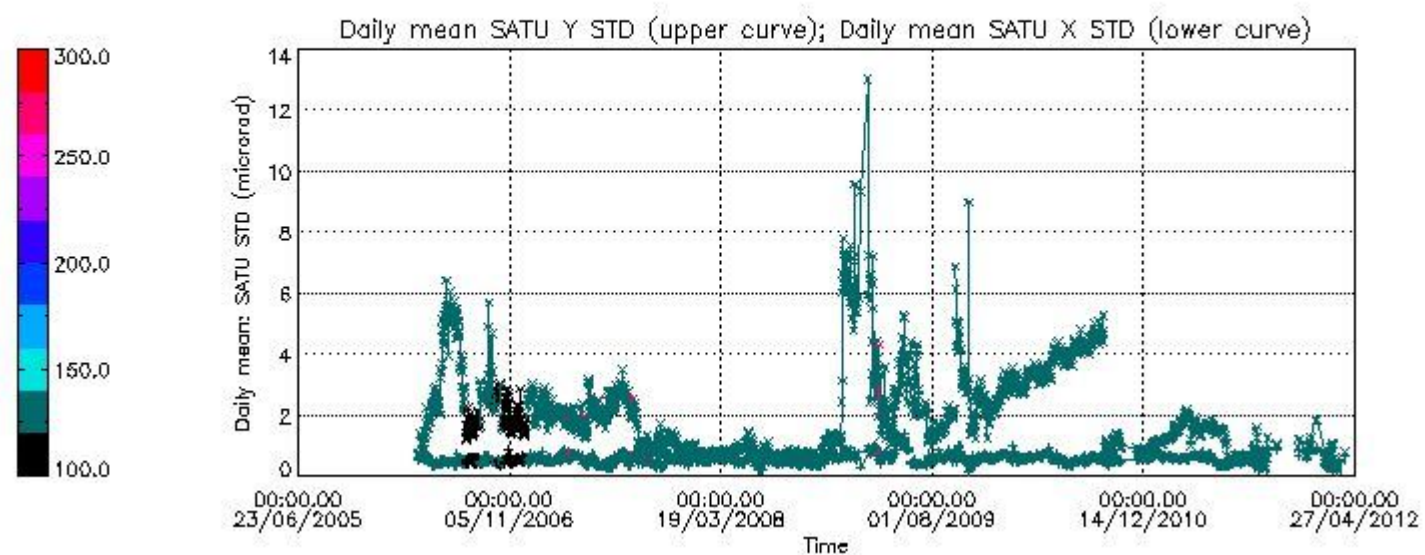
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	NaN	NaN	NaN	NaN
St. deviation:	NaN	NaN	NaN	NaN
Maximum:	NaN	NaN	NaN	NaN
Minimum:	NaN	NaN	NaN	NaN
Number of data:	NaN	NaN	NaN	NaN
90Percentile:	NaN	NaN	NaN	NaN

7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb) and of daily SATU NEA 90th percentile since May 2011

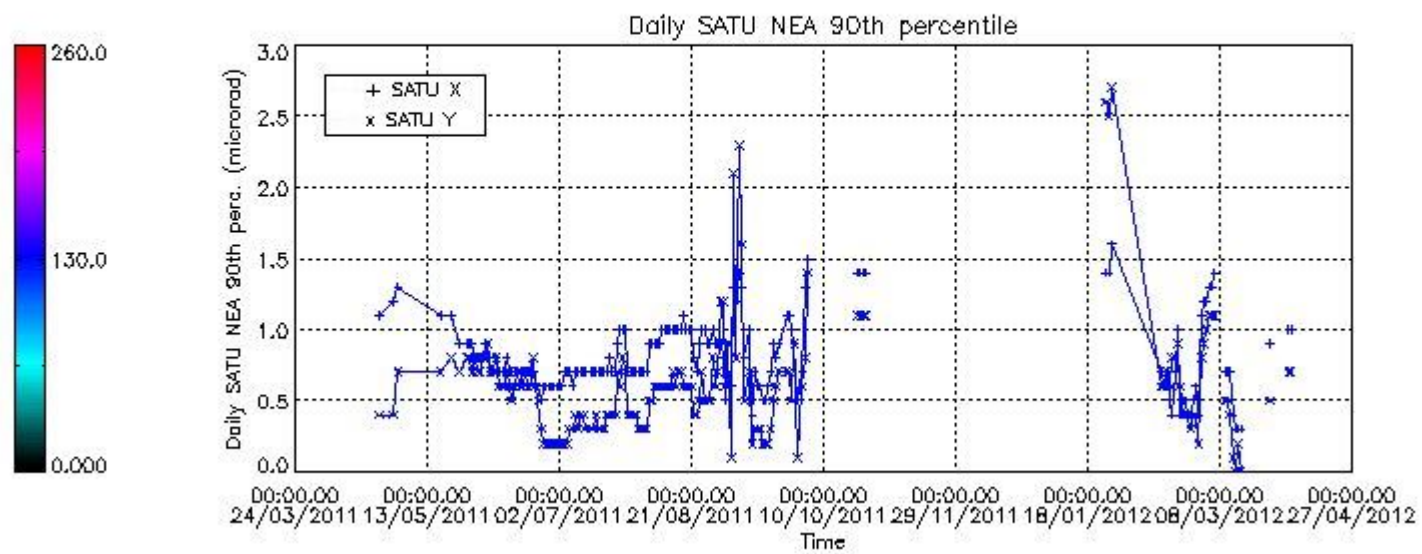
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis



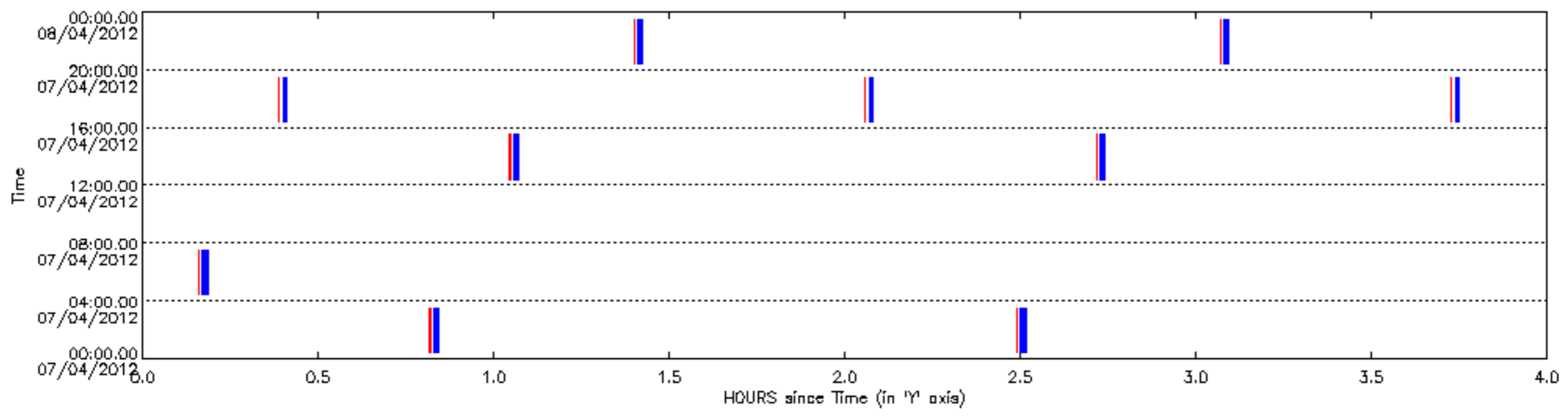
Lower curve: 90th percentile of SATU Y axis
 Upper curve: 90th percentile of SATU X axis

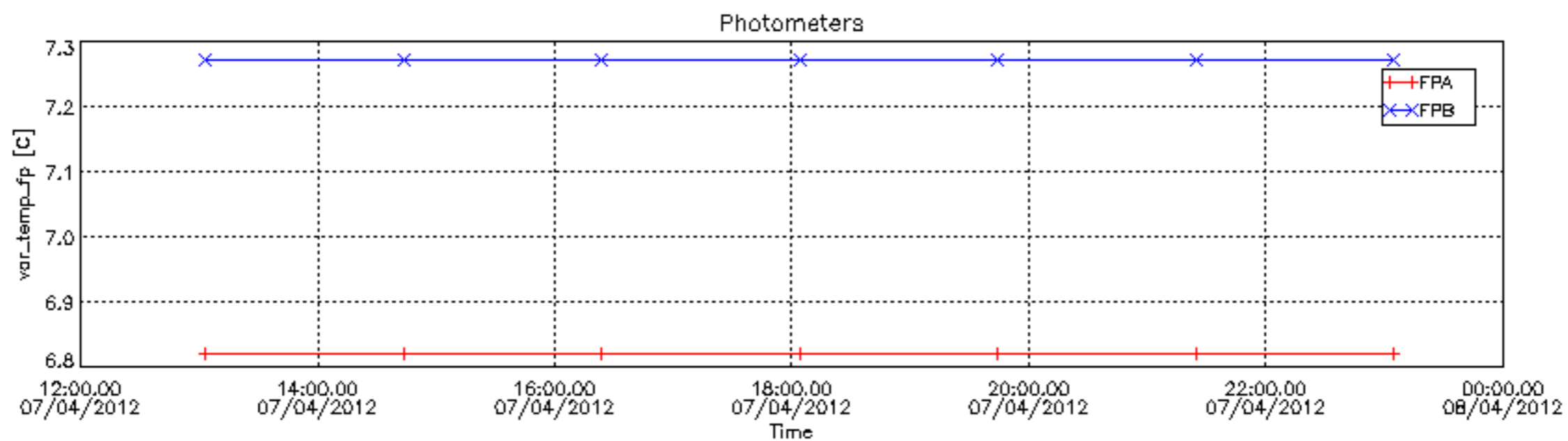
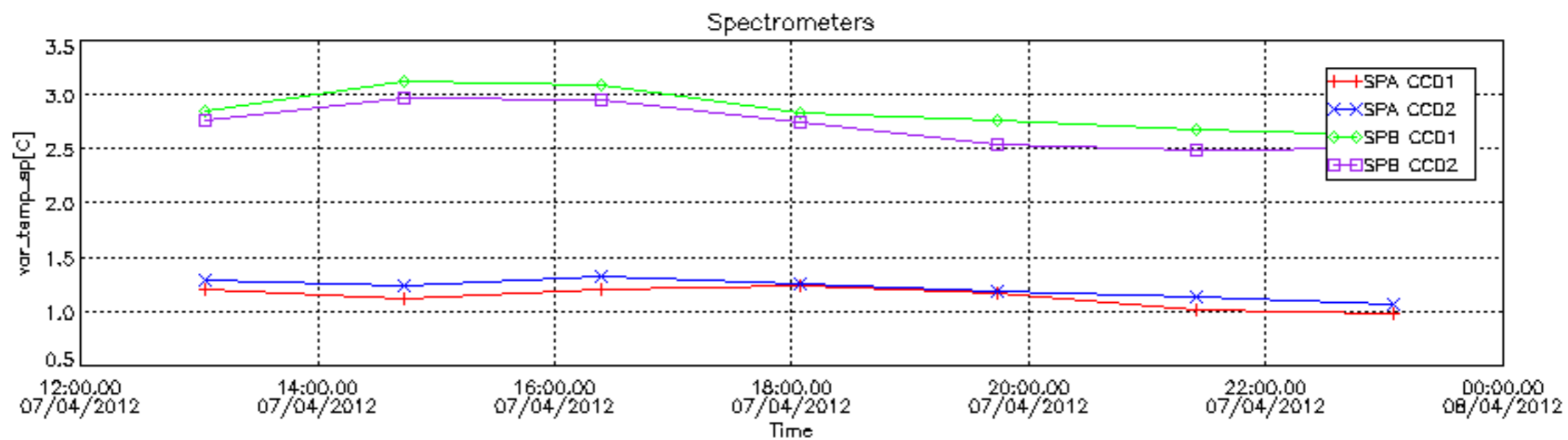


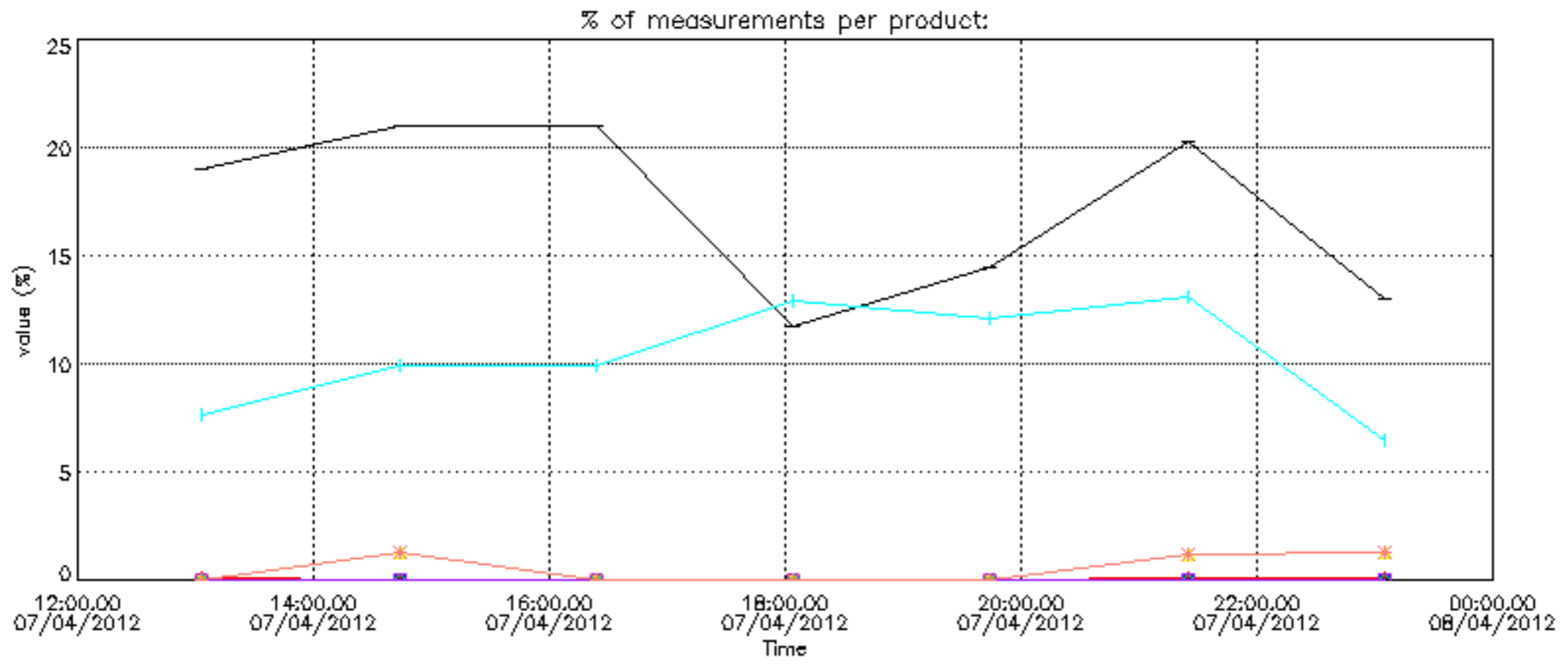
8. Auxiliary Data Files used for the production reported in section 2.4

The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

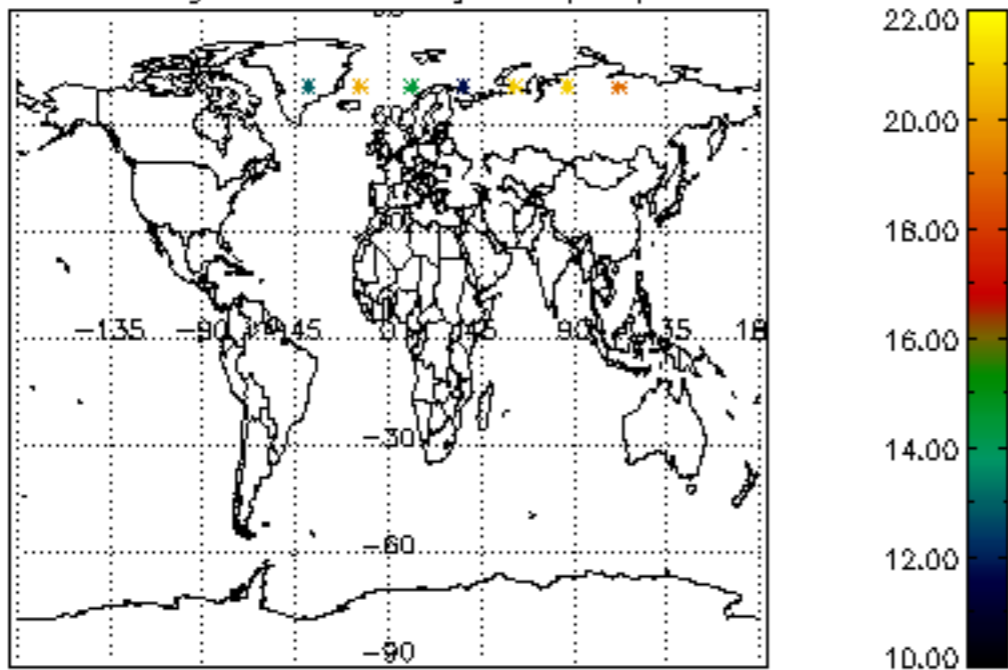
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20111213_163131_20111215_000000_20500101_000000	1	07-APR-2012 13:03:24
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20120316_091957_20120315_000000_20500101_000000	1	07-APR-2012 13:03:24
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20110513_081743_20020301_000000_20500101_000000	1	07-APR-2012 13:03:24
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	07-APR-2012 13:03:24
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	07-APR-2012 13:03:24
ECMWF_FILE	AUX_ECF_AXNECM20120407_062114_20120407_090000_20120407_210000	1	07-APR-2012 13:03:24
ECMWF_FILE	AUX_ECF_AXNECM20120407_062115_20120407_150000_20120408_030000	3	07-APR-2012 16:23:53
ECMWF_FILE	AUX_ECA_AXNECM20120407_183759_20120407_090000_20120407_210000	4	07-APR-2012 18:04:07
ECMWF_FILE	AUX_ECF_AXNECM20120407_062115_20120407_210000_20120408_090000	6	07-APR-2012 21:24:35
OPTIONAL_ECMWF_FILE	MISSING	1	07-APR-2012 13:03:24
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20120407_101927_20120406_182049_20120416_203429	1	07-APR-2012 13:03:24



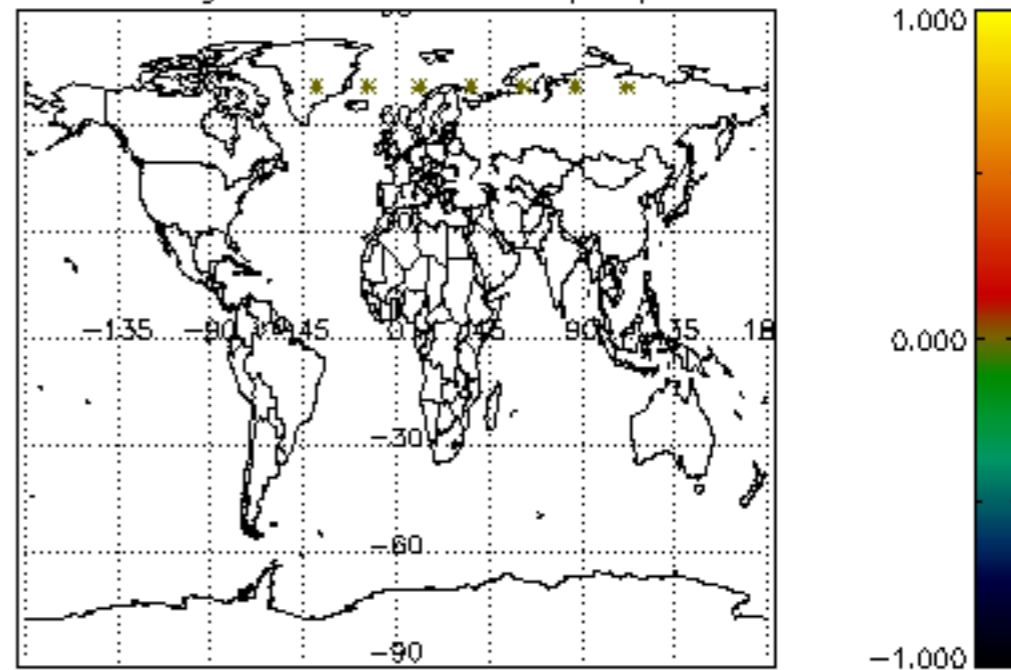




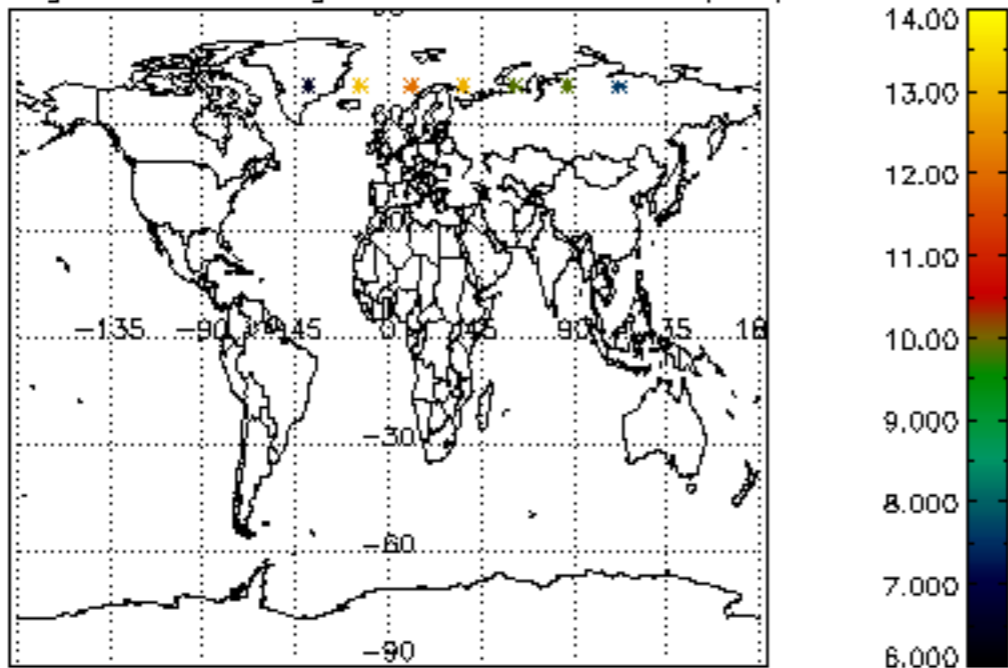
Percentage of cosmic ray hits per profile



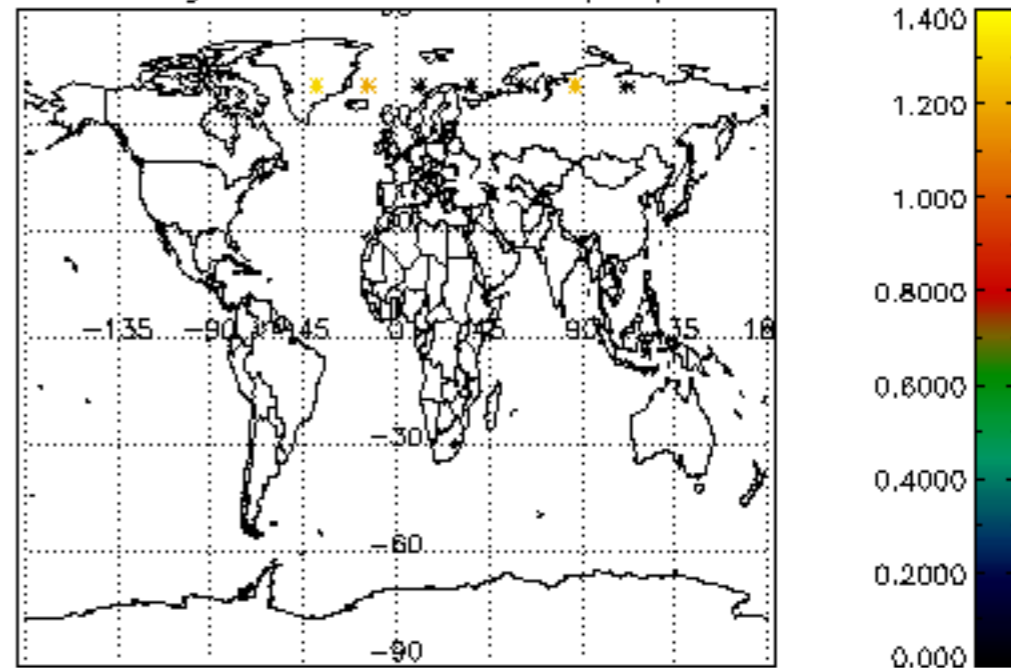
Percentage of datation errors per profile

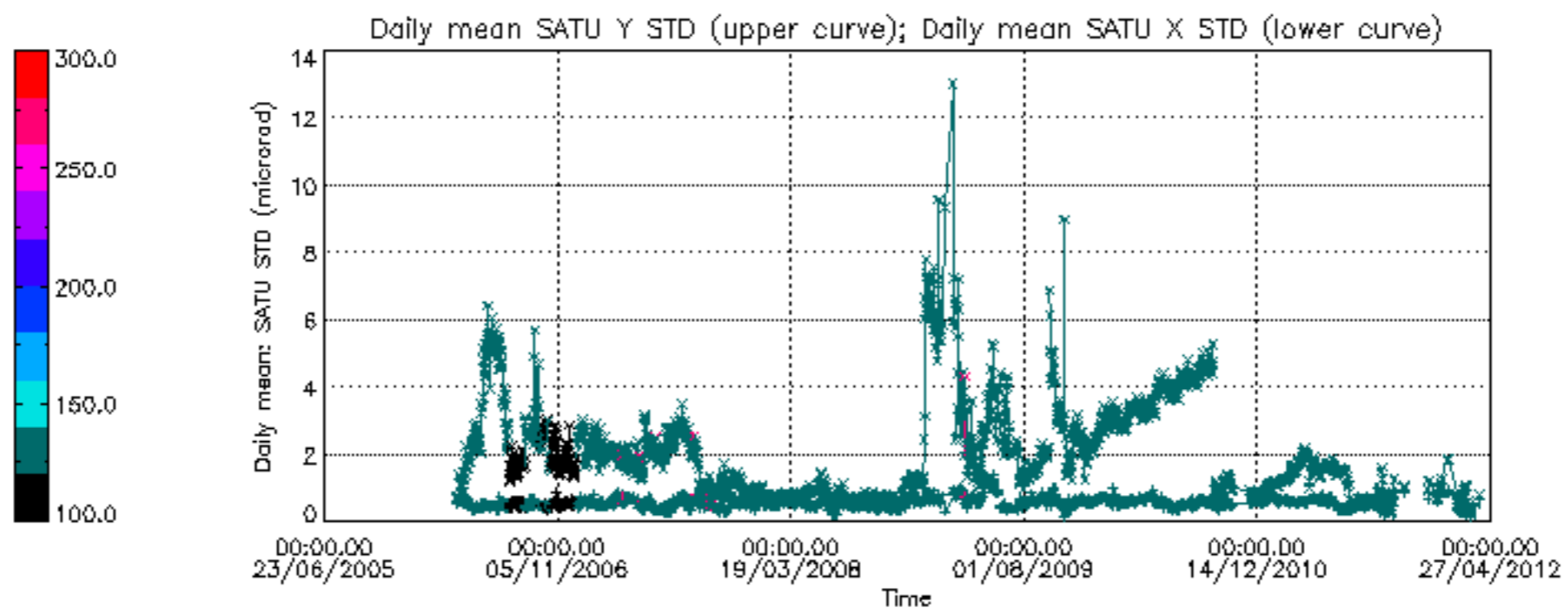


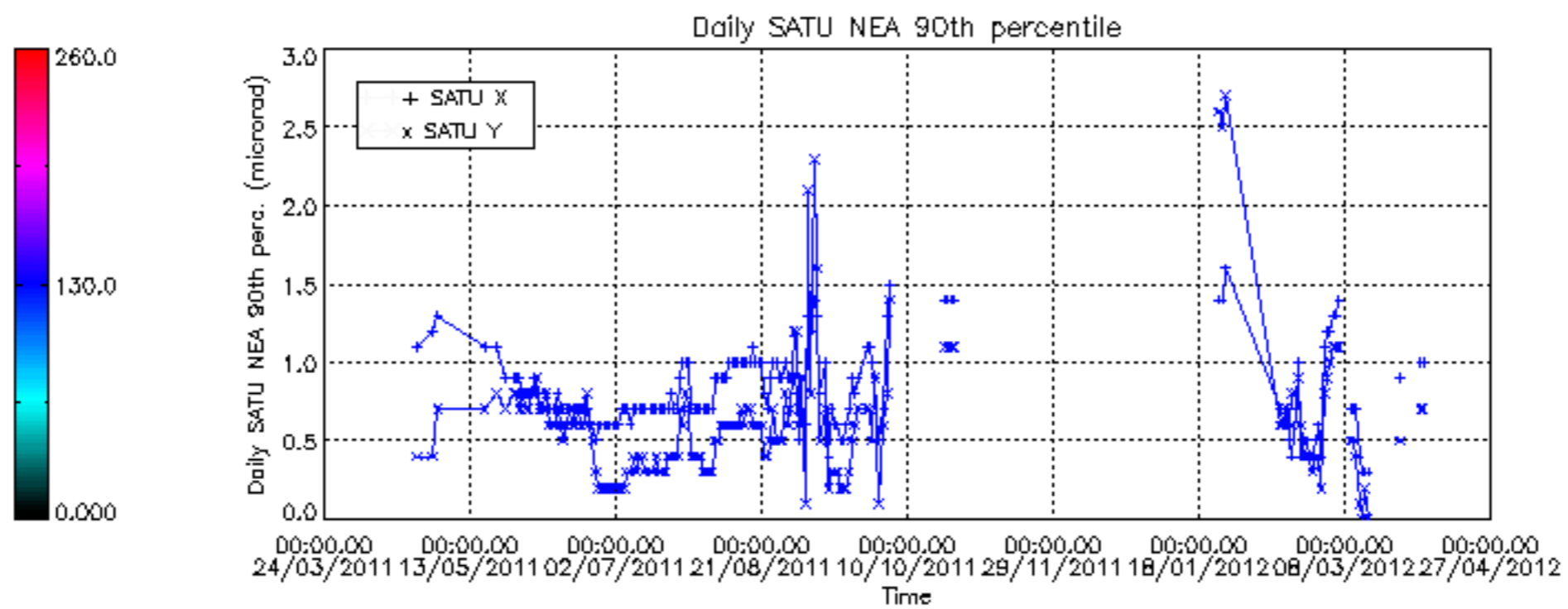
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile







/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20120401_013727_000060553113_00161_52761_6817.N1
1; 940.6; 01-APR-2012 01:37:27; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;52761
2; 6954.8; 01-APR-2012 03:17:41; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;52762
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20120402_061209_000000373113_00178_52778_6818.N1
1; 1585.7; 02-APR-2012 06:12:09; Dark ; 37.5; 163; 7Del Crv ; 2.94; 11000;occ; 75; 0;52778
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1; 1585.8; 02-APR-2012 07:52:23; Dark ; 42.5; 163; 7Del Crv ; 2.94; 11000;occ; 85; 0;52779
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1; 1585.9; 02-APR-2012 09:32:37; Dark ; 42.5; 163; 7Del Crv ; 2.94; 11000;occ; 85; 0;52780
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1; 1586.2; 02-APR-2012 11:12:51; Dark ; 42.5; 163; 7Del Crv ; 2.94; 11000;occ; 85; 0;52781
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1; 1586.3; 02-APR-2012 12:53:05; Dark ; 23.5; 163; 7Del Crv ; 2.94; 11000;occ; 47; 0;52782
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1; 1586.3; 02-APR-2012 12:53:05; Dark ; 40.0; 163; 7Del Crv ; 2.94; 11000;occ; 80; 0;52782
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120402_161333_000000403113_00184_52784_5911.N1
1; 1586.3; 02-APR-2012 16:13:33; Dark ; 40.5; 163; 7Del Crv ; 2.94; 11000;occ; 81; 0;52784
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1; 1586.5; 02-APR-2012 17:53:47; Dark ; 42.5; 163; 7Del Crv ; 2.94; 11000;occ; 85; 0;52785
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120403_085312_000000603113_00194_52794_5913.N1
1; 1425.9; 03-APR-2012 08:53:12; Dark ; 0.5; 0; ; 0.00; 0;occ; 1; 0;52794
2; 1462.3; 03-APR-2012 08:53:48; Dark ; 24.5; 106; 9Bet Crv ; 2.65; 5600;occ; 49; 0;52794
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1; 1426.1; 03-APR-2012 10:33:26; Dark ; 0.5; 0; ; 0.00; 0;occ; 1; 0;52795
2; 1462.5; 03-APR-2012 10:34:03; Dark ; 29.5; 106; 9Bet Crv ; 2.65; 5600;occ; 59; 0;52795
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1; 1426.3; 03-APR-2012 12:13:40; Dark ; 0.5; 0; ; 0.00; 0;occ; 1; 0;52796
2; 1462.7; 03-APR-2012 12:14:17; Dark ; 33.5; 106; 9Bet Crv ; 2.65; 5600;occ; 67; 0;52796
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1; 1472.8; 03-APR-2012 13:54:41; Dark ; 39.0; 106; 9Bet Crv ; 2.65; 5600;occ; 78; 20;52797
2; 2819.3; 03-APR-2012 14:17:07; Bright; 26.5; 87; 64Gam UMa ; 2.43; 11000;occ; 53; 0;52797
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120403_153445_000013873113_00198_52798_5918.N1
1; 1462.9; 03-APR-2012 15:34:45; Dark ; 43.0; 106; 9Bet Crv ; 2.65; 5600;occ; 86; 0;52798
2; 2819.0; 03-APR-2012 15:57:21; Bright; 31.5; 87; 64Gam UMa ; 2.43; 11000;occ; 63; 0;52798
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1; 1463.2; 03-APR-2012 17:14:59; Dark ; 43.0; 106; 9Bet Crv ; 2.65; 5600;occ; 86; 0;52799
2; 2818.9; 03-APR-2012 17:37:35; Bright; 36.5; 87; 64Gam UMa ; 2.43; 11000;occ; 73; 0;52799
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1; 1463.2; 03-APR-2012 18:55:13; Dark ; 44.5; 106; 9Bet Crv ; 2.65; 5600;occ; 89; 0;52800
2; 2818.6; 03-APR-2012 19:17:48; Bright; 39.0; 87; 64Gam UMa ; 2.43; 11000;occ; 78; 0;52800
3; 4824.2; 03-APR-2012 19:51:14; Dark ; 45.5; 61; 8Eps Peg ; 2.10; 3900;occ; 91; 0;52800
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1; 1463.4; 03-APR-2012 20:35:27; Dark ; 43.0; 106; 9Bet Crv ; 2.65; 5600;occ; 86; 0;52801
2; 2818.4; 03-APR-2012 20:58:02; Bright; 36.5; 87; 64Gam UMa ; 2.43; 11000;occ; 73; 0;52801
3; 4824.5; 03-APR-2012 21:31:28; Dark ; 44.5; 61; 8Eps Peg ; 2.10; 3900;occ; 89; 0;52801
4; 5106.4; 03-APR-2012 21:36:10; Dark ; 44.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 88; 0;52801
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1; 1463.6; 03-APR-2012 22:15:41; Dark ; 44.5; 106; 9Bet Crv ; 2.65; 5600;occ; 89; 0;52802
2; 2818.4; 03-APR-2012 22:38:16; Bright; 37.0; 87; 64Gam UMa ; 2.43; 11000;occ; 74; 0;52802
3; 4824.8; 03-APR-2012 23:11:42; Dark ; 47.0; 61; 8Eps Peg ; 2.10; 3900;occ; 94; 0;52802
4; 5106.8; 03-APR-2012 23:16:24; Dark ; 43.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 86; 0;52802
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1; 1463.7; 03-APR-2012 23:55:55; Dark ; 44.5; 106; 9Bet Crv ; 2.65; 5600;occ; 89; 0;52803
2; 2818.2; 04-APR-2012 00:18:30; Bright; 37.0; 87; 64Gam UMa ; 2.43; 11000;occ; 74; 0;52803
3; 4825.1; 04-APR-2012 00:51:56; Dark ; 48.0; 61; 8Eps Peg ; 2.10; 3900;occ; 96; 0;52803
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3; 4825.4; 04-APR-2012 02:32:11; Dark ; 46.5; 61; 8Eps Peg ; 2.10; 3900;occ; 93; 0;52804
4; 5107.9; 04-APR-2012 02:36:53; Dark ; 45.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 90; 0;52804
5; 7478.1; 04-APR-2012 03:16:23; Dark ; 41.0; 106; 9Bet Crv ; 2.65; 5600;occ; 82; 0;52805
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3; 1465.7; 04-APR-2012 04:56:39; Dark ; 43.0; 106; 9Bet Crv ; 2.65; 5600;occ; 86; 0;52806
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3; 5110.5; 04-APR-2012 12:38:19; Dark ; 42.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 84; 0;52810
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