

GOMOS Daily Report 06-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	08APR2012 07:00:28
Data source version	GOMOS/6.01
Start time of products	06APR2012 00:14:27
Stop time of products	06APR2012 16:56:51
Store outputs in DB	Yes
Nb of level 1b prods	11
Nb of prods with errors	1

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

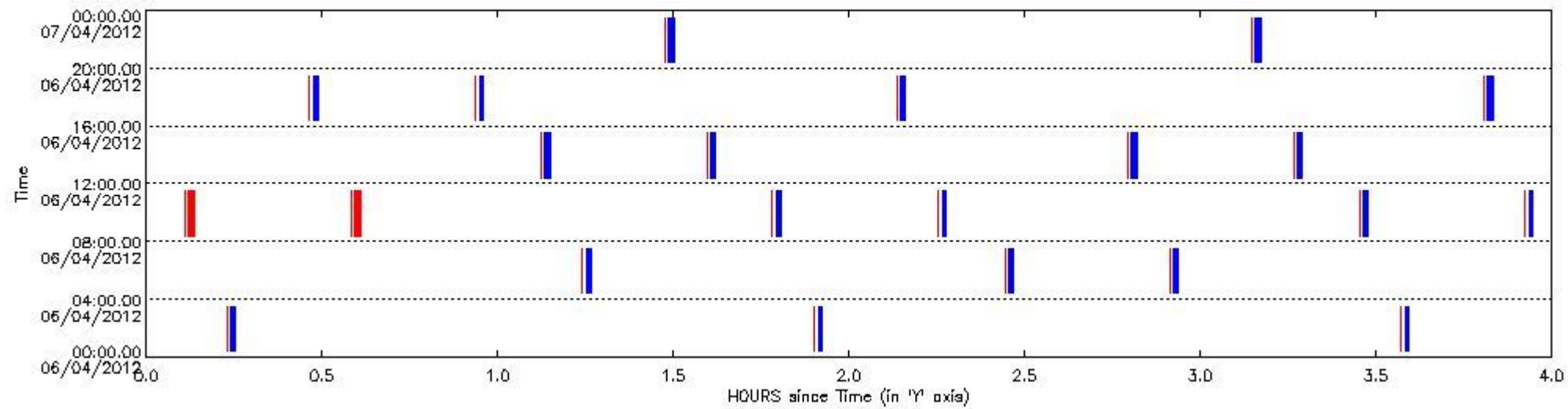
2.1 Level 0 products arrived in PCF (see template [here](#))

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
06-APR-2012 00:13:45	ZetCen	0	52832
06-APR-2012 01:53:59	ZetCen	0	52833
06-APR-2012 03:34:13	ZetCen	0	52834
06-APR-2012 05:14:28	ZetCen	0	52835
06-APR-2012 06:26:37	DSA1038	0	52835
06-APR-2012 06:54:42	ZetCen	0	52836
06-APR-2012 08:06:40	DSA1038	0	52836
06-APR-2012 08:07:10	DSA1038	0	52836
06-APR-2012 08:34:56	ZetCen	0	52837
06-APR-2012 08:35:33	ZetCen	95	52837
06-APR-2012 09:46:52	DSA1038	0	52837
06-APR-2012 10:15:11	ZetCen	0	52838
06-APR-2012 11:27:07	DSA1038	0	52838
06-APR-2012 11:55:25	ZetCen	0	52839
06-APR-2012 13:07:21	DSA1038	0	52839

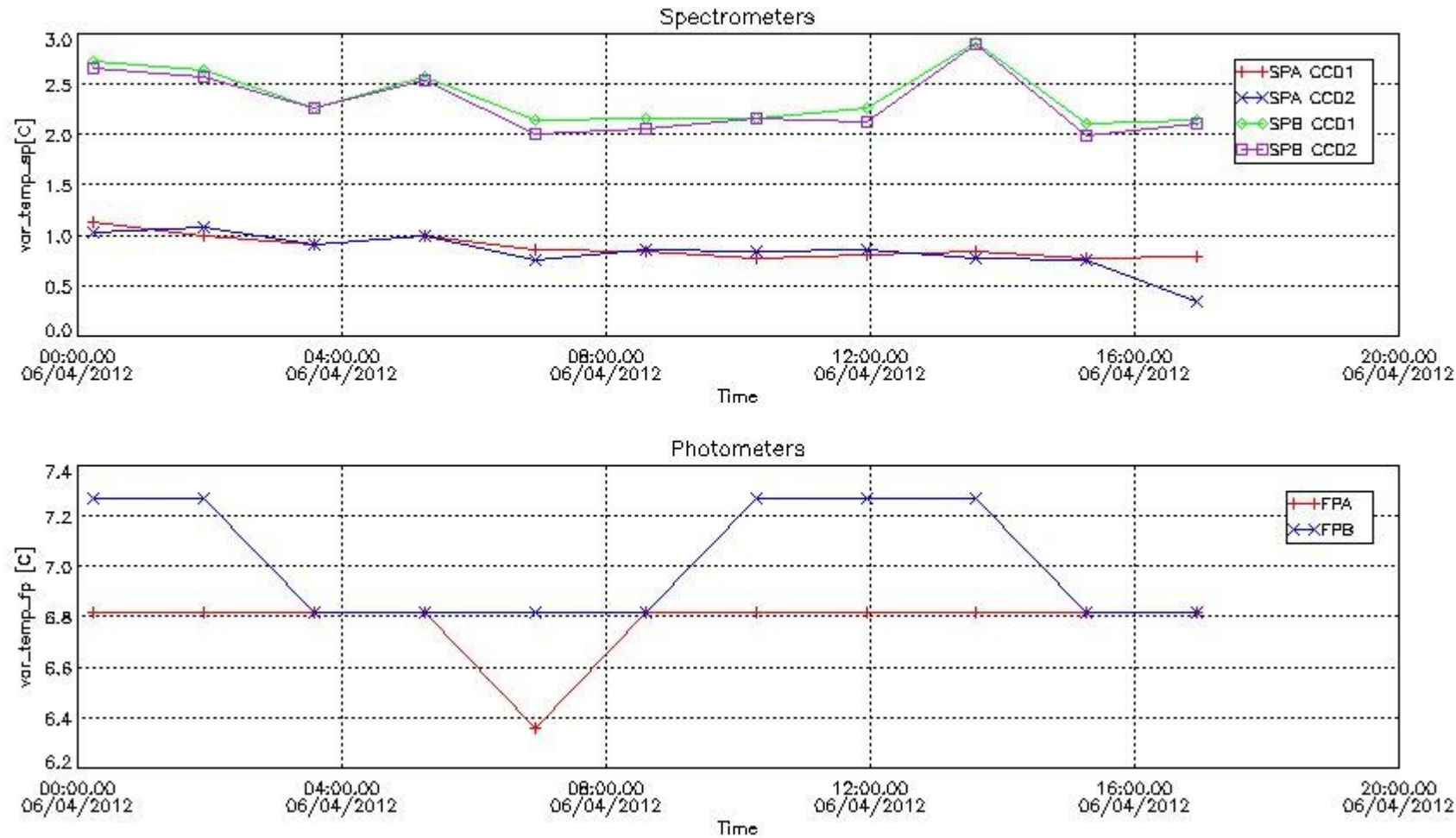
06-APR-2012 13:35:39	ZetCen	0	52840
06-APR-2012 14:47:36	DSA1038	0	52840
06-APR-2012 15:15:54	ZetCen	0	52841
06-APR-2012 16:27:50	DSA1038	0	52841
06-APR-2012 16:56:08	ZetCen	0	52842
06-APR-2012 18:08:05	DSA1038	0	52842
06-APR-2012 19:48:19	DSA1038	0	52843
06-APR-2012 21:28:33	DSA1038	0	52844
06-APR-2012 23:08:48	DSA1038	0	52845

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
1	GOM_TRA_1PNPDE20120406_001427_000000433113_00232_52832_6971.N1	06-APR-2012 00:14:27	Straylight	42.500	95	Zet Cen	2.5450	26000.	85	52832	No
2	GOM_TRA_1PNPDE20120406_015441_000000413113_00233_52833_7033.N1	06-APR-2012 01:54:41	Straylight	40.500	95	Zet Cen	2.5450	26000.	81	52833	No
3	GOM_TRA_1PNPDE20120406_033456_000000433113_00234_52834_7034.N1	06-APR-2012 03:34:56	Straylight	42.500	95	Zet Cen	2.5450	26000.	85	52834	Yes
4	GOM_TRA_1PNPDE20120406_051510_000000413113_00235_52835_7083.N1	06-APR-2012 05:15:10	Straylight	40.500	95	Zet Cen	2.5450	26000.	81	52835	No
5	GOM_TRA_1PNPDE20120406_065525_000000413113_00236_52836_7131.N1	06-APR-2012 06:55:25	Straylight	40.500	95	Zet Cen	2.5450	26000.	81	52836	No
6	GOM_TRA_1PNPDK20120406_083539_000000413113_00237_52837_4312.N1	06-APR-2012 08:35:39	Straylight	40.500	95	Zet Cen	2.5450	26000.	81	52837	No
7	GOM_TRA_1PNPDK20120406_101553_000000403113_00238_52838_4366.N1	06-APR-2012 10:15:53	Straylight	39.500	95	Zet Cen	2.5450	26000.	79	52838	No
8	GOM_TRA_1PNPDK20120406_115608_000000403113_00239_52839_4432.N1	06-APR-2012 11:56:08	Straylight	40.000	95	Zet Cen	2.5450	26000.	80	52839	No
9	GOM_TRA_1PNPDK20120406_133622_000000403113_00240_52840_4482.N1	06-APR-2012 13:36:22	Straylight	39.500	95	Zet Cen	2.5450	26000.	79	52840	No
10	GOM_TRA_1PNPDK20120406_151636_000000423113_00241_52841_4536.N1	06-APR-2012 15:16:36	Straylight	42.000	95	Zet Cen	2.5450	26000.	84	52841	No
11	GOM_TRA_1PNPDK20120406_165651_000000413113_00242_52842_4575.N1	06-APR-2012 16:56:51	Straylight	40.500	95	Zet Cen	2.5450	26000.	81	52842	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_1PNPDE20120406_001427_000000433113_00232_52832_6971.N1	DC map used
GOM_TRA_1PNPDE20120406_015441_000000413113_00233_52833_7033.N1	DC map used
GOM_TRA_1PNPDE20120406_033456_000000433113_00234_52834_7034.N1	DC map used
GOM_TRA_1PNPDE20120406_051510_000000413113_00235_52835_7083.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.

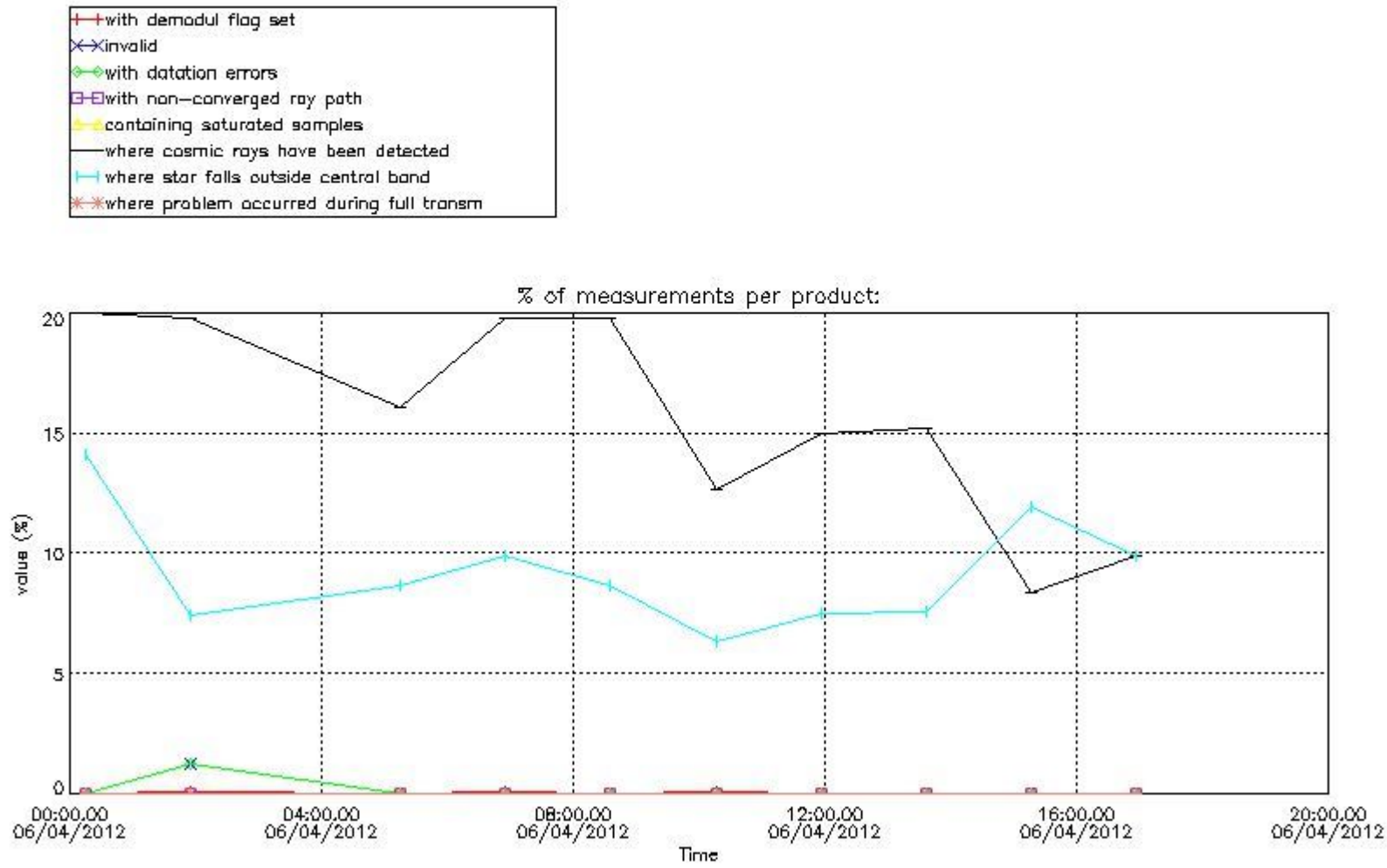
5. Demodulation flag and quality information monitoring

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.

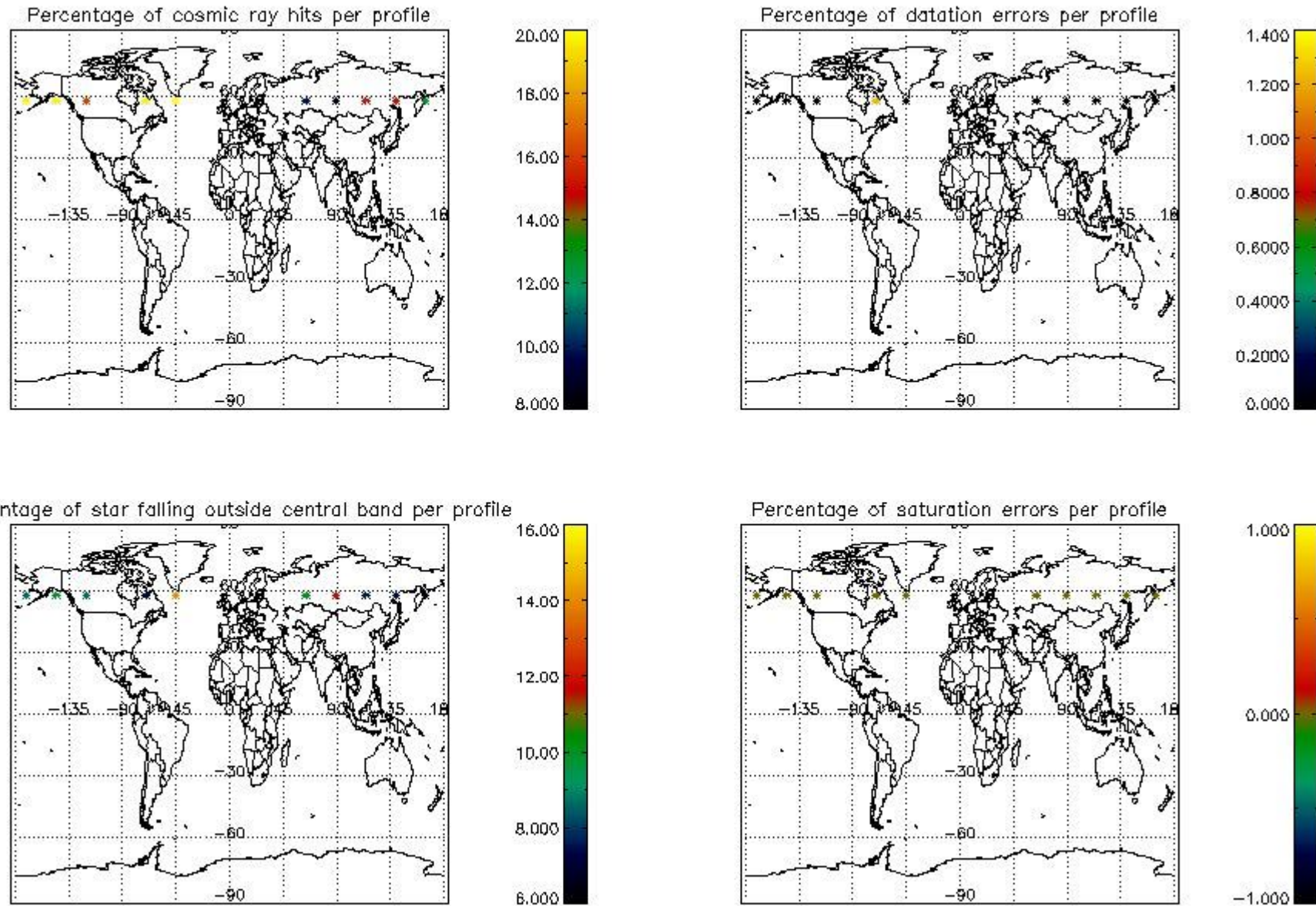
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	90.0000 %
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)

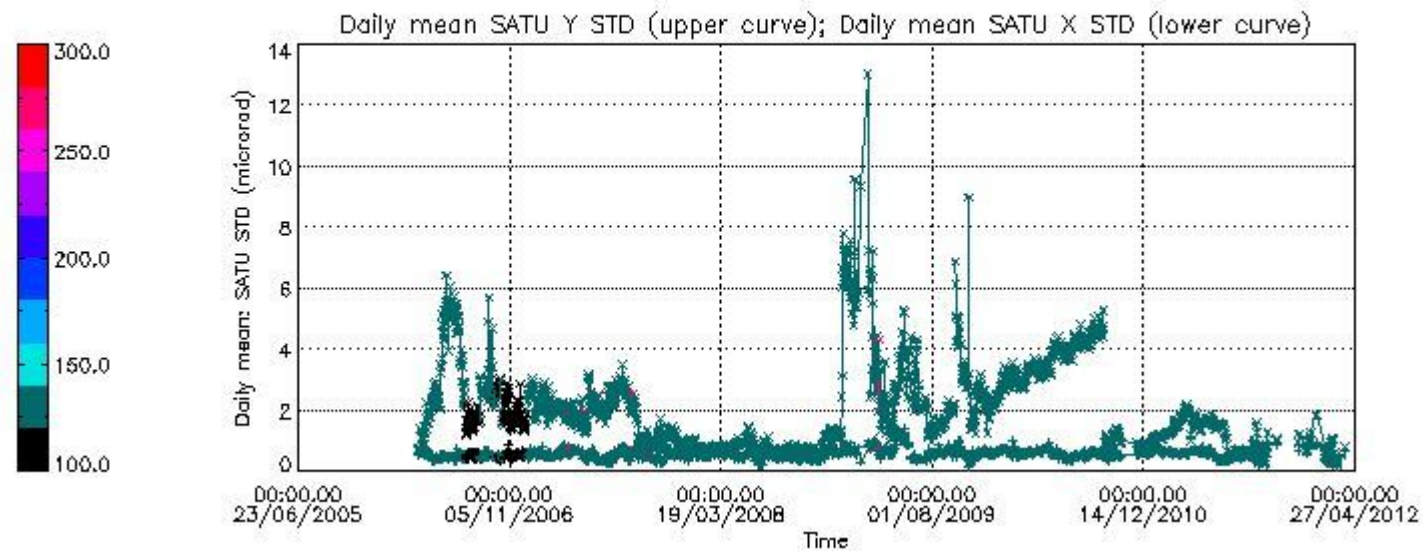
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	NaN	NaN	NaN	NaN
St. deviation:	NaN	NaN	NaN	NaN
Maximum:	NaN	NaN	NaN	NaN
Minimum:	NaN	NaN	NaN	NaN
Number of data:	NaN	NaN	NaN	NaN
90Percentile:	NaN	NaN	NaN	NaN

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

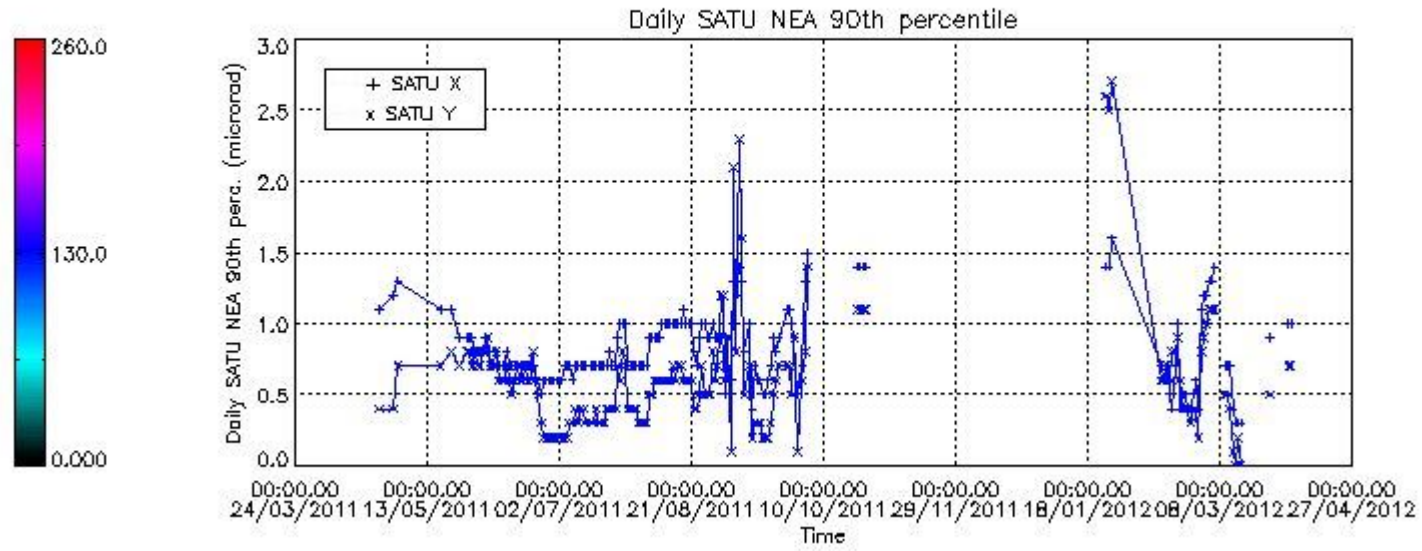
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

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



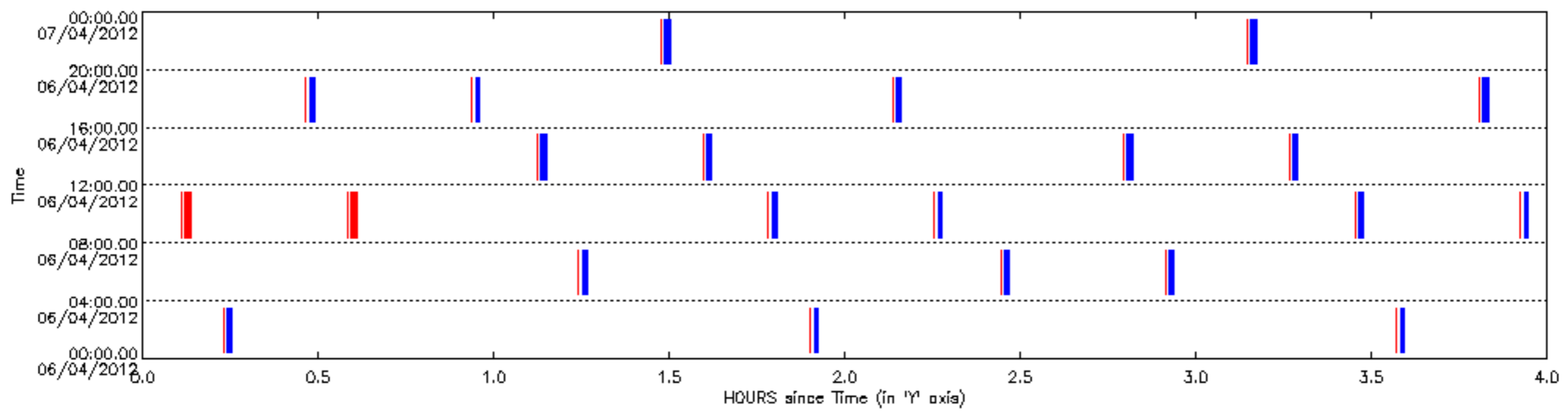
Lower curve: 90th percentile of SATU Y axis
Upper curve: 90th percentile of SATU X axis

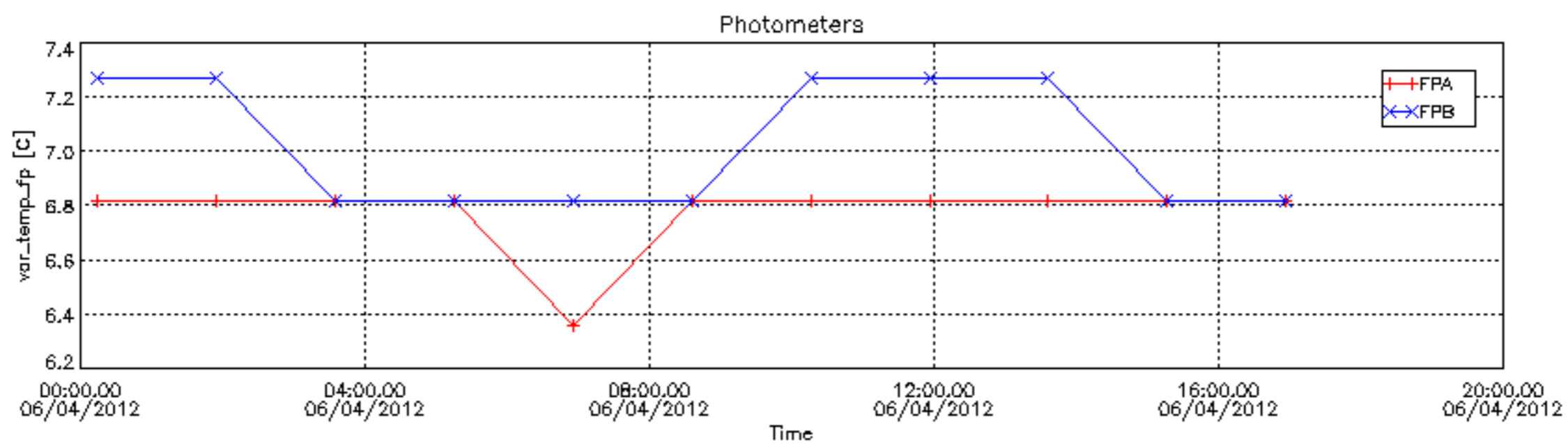
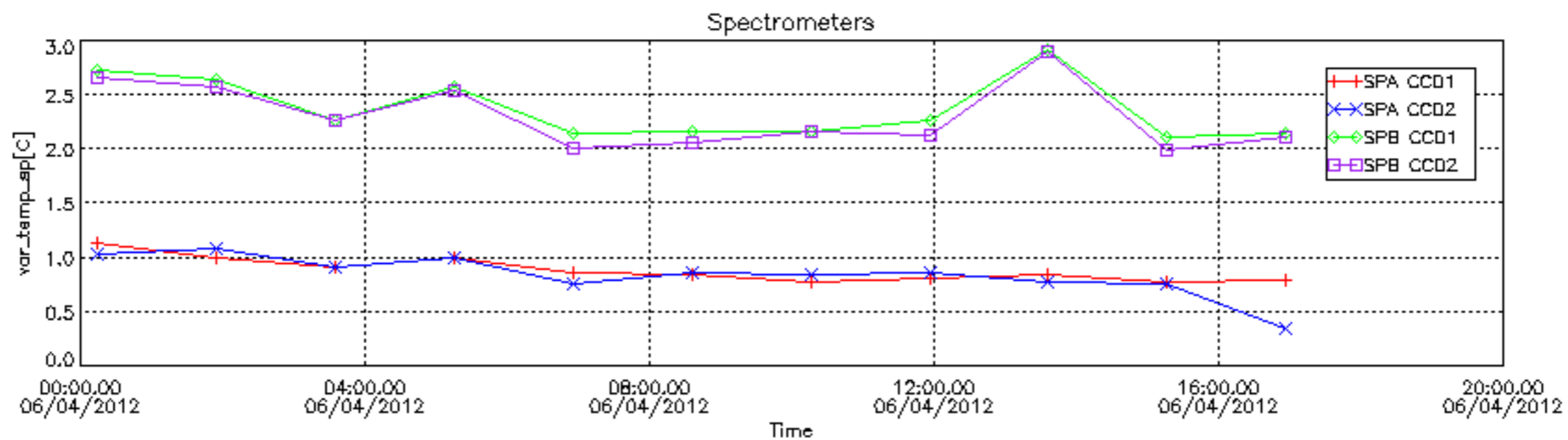


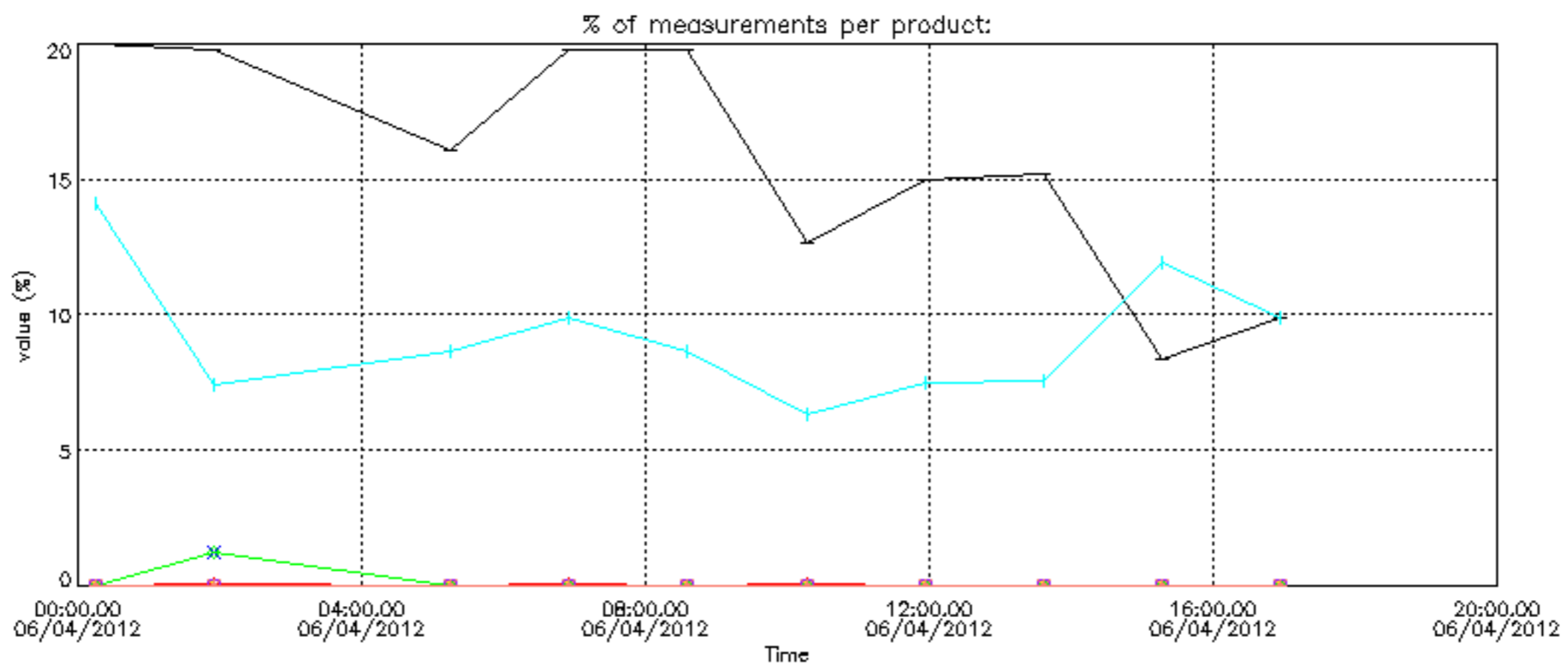
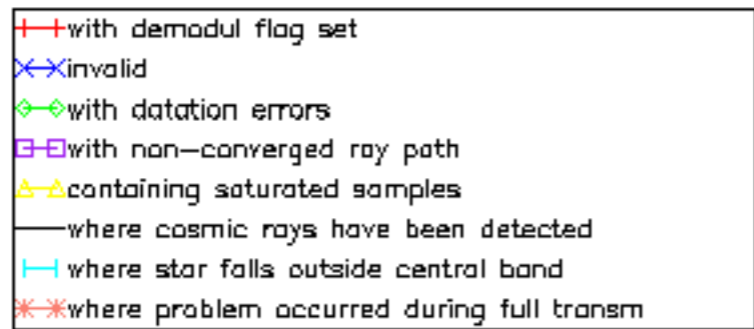
8. Auxiliary Data Files used for the production reported in section 2.4

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.

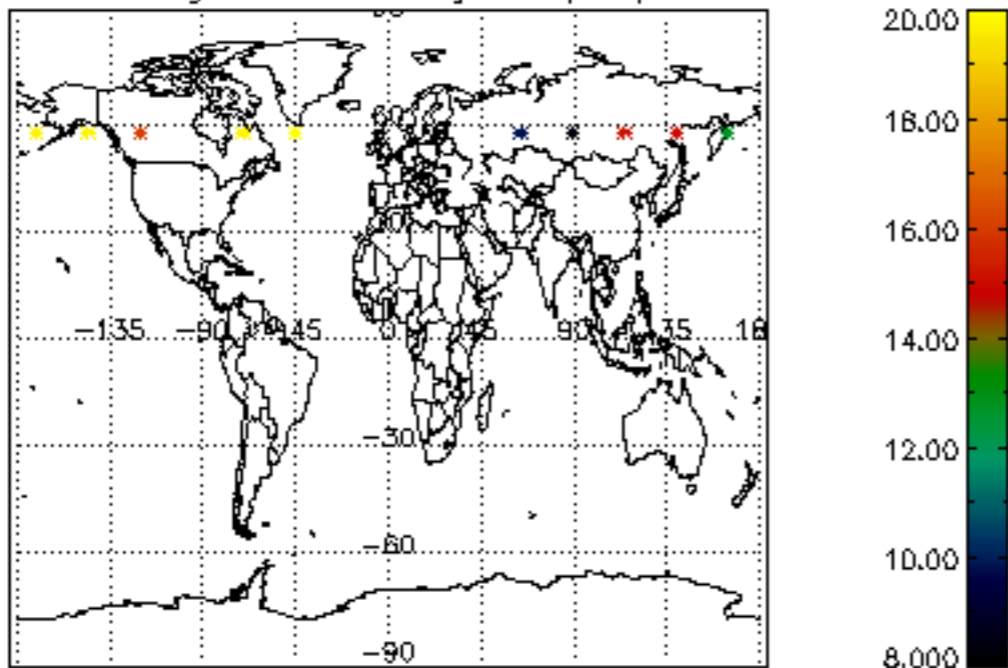
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20111213_163131_20111215_000000_20500101_000000	1	06-APR-2012 00:14:27
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20120316_091957_20120315_000000_20500101_000000	1	06-APR-2012 00:14:27
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20110513_081743_20020301_000000_20500101_000000	1	06-APR-2012 00:14:27
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	06-APR-2012 00:14:27
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	06-APR-2012 00:14:27
ECMWF_FILE	AUX_ECF_AXNECM20120405_062115_20120405_210000_20120406_090000	1	06-APR-2012 00:14:27
ECMWF_FILE	AUX_ECF_AXNECM20120405_181205_20120406_030000_20120406_150000	4	06-APR-2012 05:15:10
ECMWF_FILE	AUX_ECA_AXNECM20120406_060726_20120405_210000_20120406_090000	5	06-APR-2012 06:55:25
ECMWF_FILE	AUX_ECF_AXNECM20120406_060726_20120406_090000_20120406_210000	7	06-APR-2012 10:15:53
ECMWF_FILE	AUX_ECF_AXNECM20120406_060727_20120406_150000_20120407_030000	11	06-APR-2012 16:56:51
OPTIONAL_ECMWF_FILE	MISSING	1	06-APR-2012 00:14:27
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20120405_103205_20120404_193419_20120414_200745	1	06-APR-2012 00:14:27



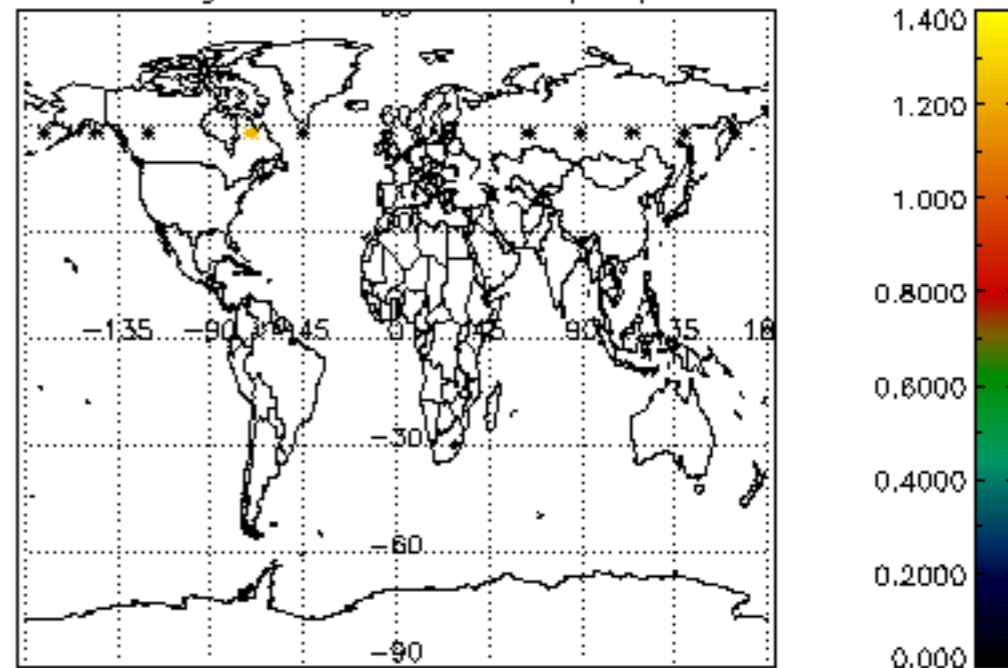




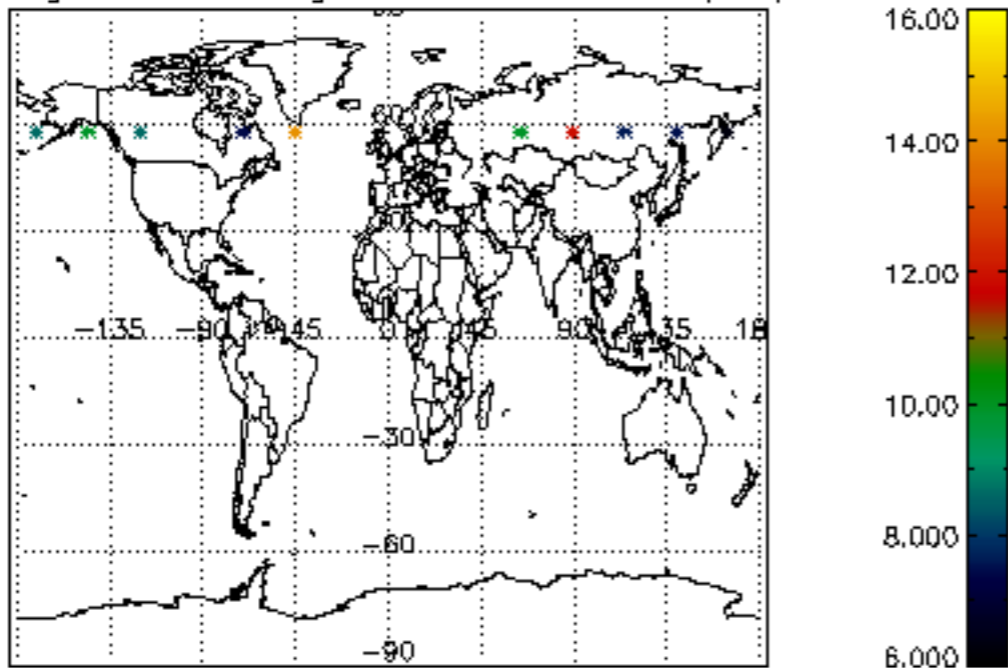
Percentage of cosmic ray hits per profile



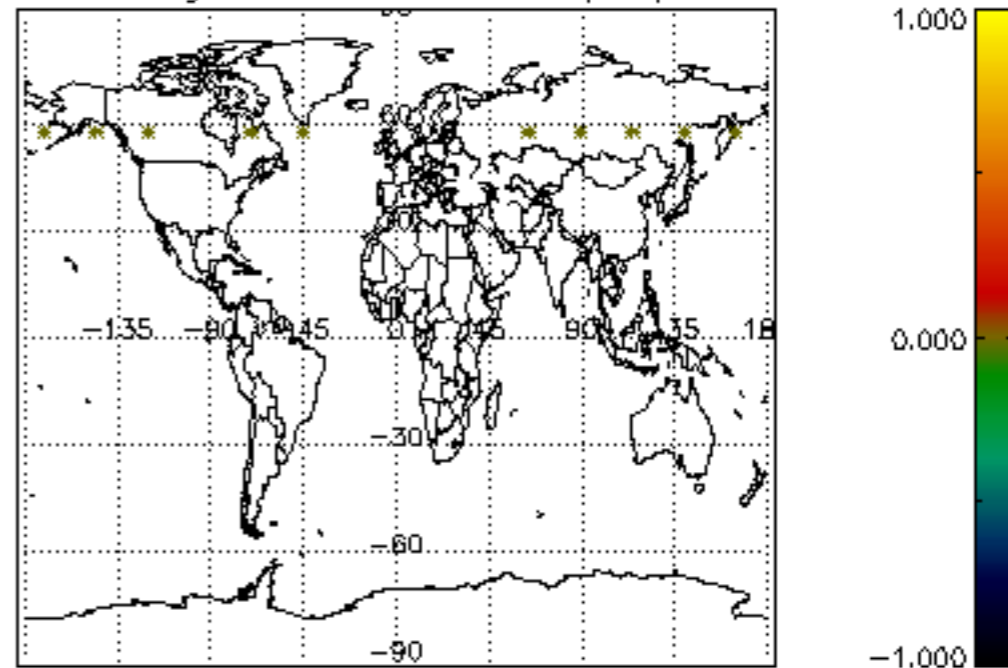
Percentage of datation errors per profile

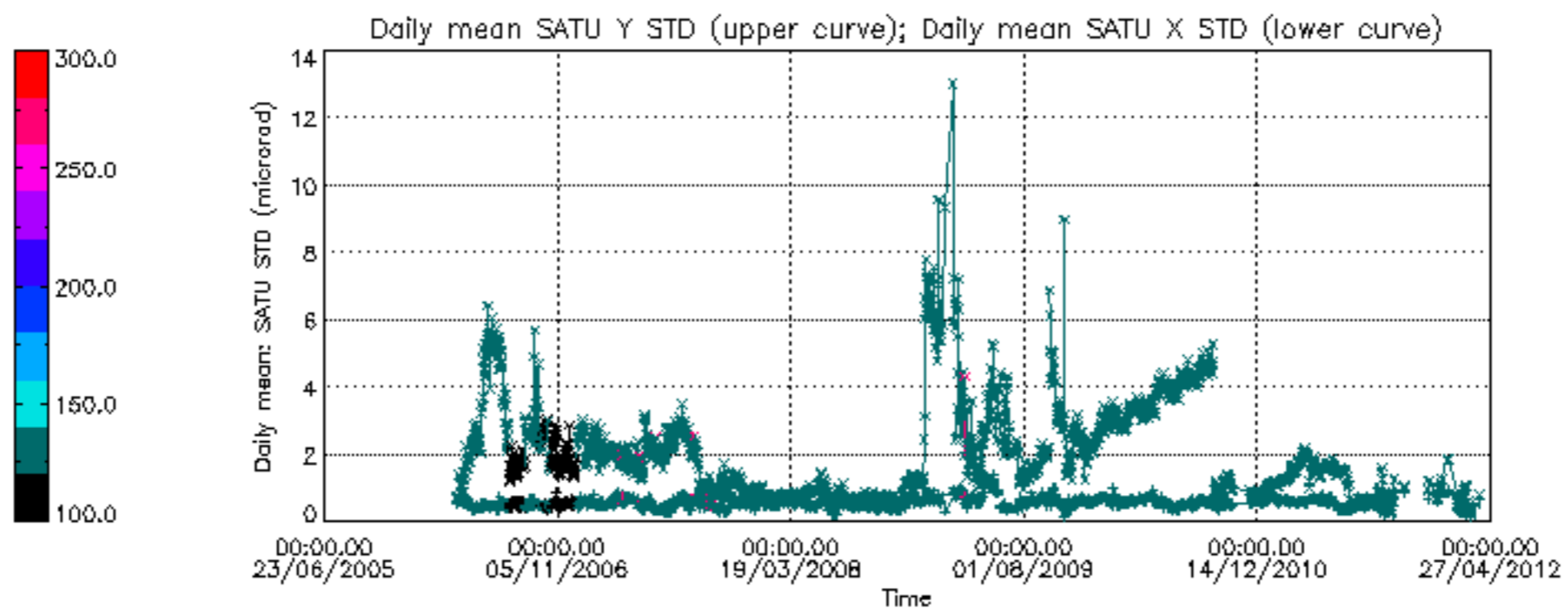


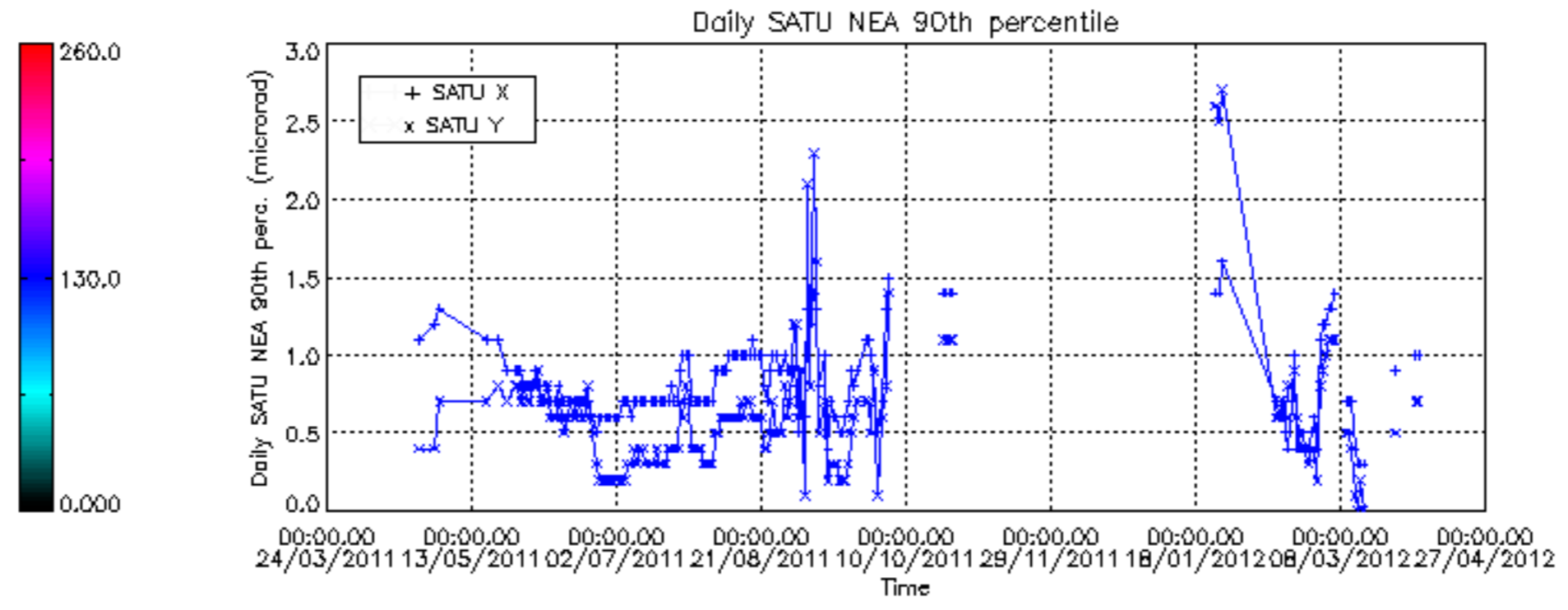
Percentage of star falling outside central band per profile



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
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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; 1585.9; 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
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120402_143319_000000413113_00183_52783_5910.N1
1; 1586.3; 02-APR-2012 14:33:19; Dark ; 41.5; 163; 7Del Crv ; 2.94; 11000;occ; 83; 0;52783
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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
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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
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120403_171459_000013923113_00199_52799_5919.N1
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2; 2818.9; 03-APR-2012 17:37:35; Bright; 36.5; 87; 64Gam UMa ; 2.43; 11000;occ; 73; 0;52799
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120403_185513_000034063113_00200_52800_5920.N1
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
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20120403_203527_000036863113_00201_52801_6819.N1
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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3; 4824.8; 03-APR-2012 23:11:42; Dark ; 47.0; 61; 8Eps Peg ; 2.10; 3900;occ; 94; 0;52802
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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; 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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1; 1203.0; 07-APR-2012 18:04:07; Dark ; 42.5; 123; Iot Cen ; 2.75; 10200;occ; 85; 0;52857
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120407_194421_000000413113_00258_52858_5961.N1
1; 1203.3; 07-APR-2012 19:44:21; Dark ; 41.5; 123; Iot Cen ; 2.75; 10200;occ; 83; 0;52858
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20120408_004504_000000403113_00261_52861_6846.N1
1; 1204.1; 08-APR-2012 00:45:04; Dark ; 41.0; 123; Iot Cen ; 2.75; 10200;occ; 82; 0;52861
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20120408_022518_000000413113_00262_52862_6847.N1
1; 1204.4; 08-APR-2012 02:25:18; Dark ; 42.0; 123; Iot Cen ; 2.75; 10200;occ; 84; 0;52862
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20120408_040532_000000433113_00263_52863_6848.N1
1; 1204.9; 08-APR-2012 04:05:32; Dark ; 43.5; 123; Iot Cen ; 2.75; 10200;occ; 87; 0;52863
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20120408_054547_000000383113_00264_52864_6849.N1
1; 1205.2; 08-APR-2012 05:45:47; Dark ; 39.0; 123; Iot Cen ; 2.75; 10200;occ; 78; 0;52864
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20120408_072602_000000403113_00265_52865_5962.N1
1; 1207.0; 08-APR-2012 07:26:02; Dark ; 41.0; 123; Iot Cen ; 2.75; 10200;occ; 82; 0;52865