

GOMOS Daily Report 04-OCT-2009

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	07OCT2009 04:39:08
Data source version	GOMOS/5.00L03
Start time of products	04OCT2009 00:16:14
Stop time of products	04OCT2009 23:58:02
Store outputs in DB	Yes
Nb of level 1b prods	70
Nb of prods with errors	1

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

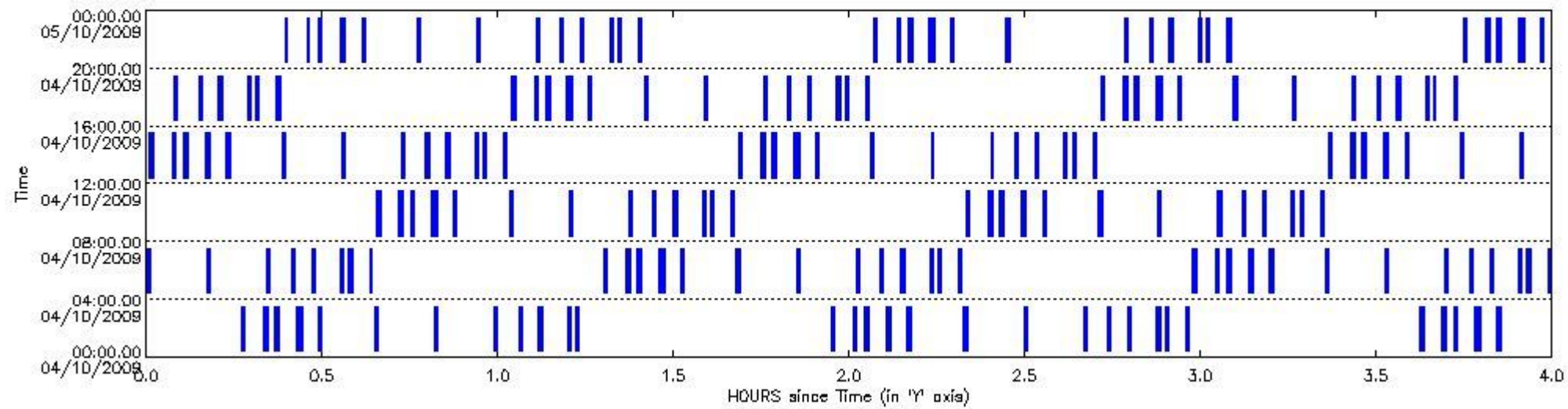
2.1 Level 0 products arrived in PCF (see template [here](#))

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).



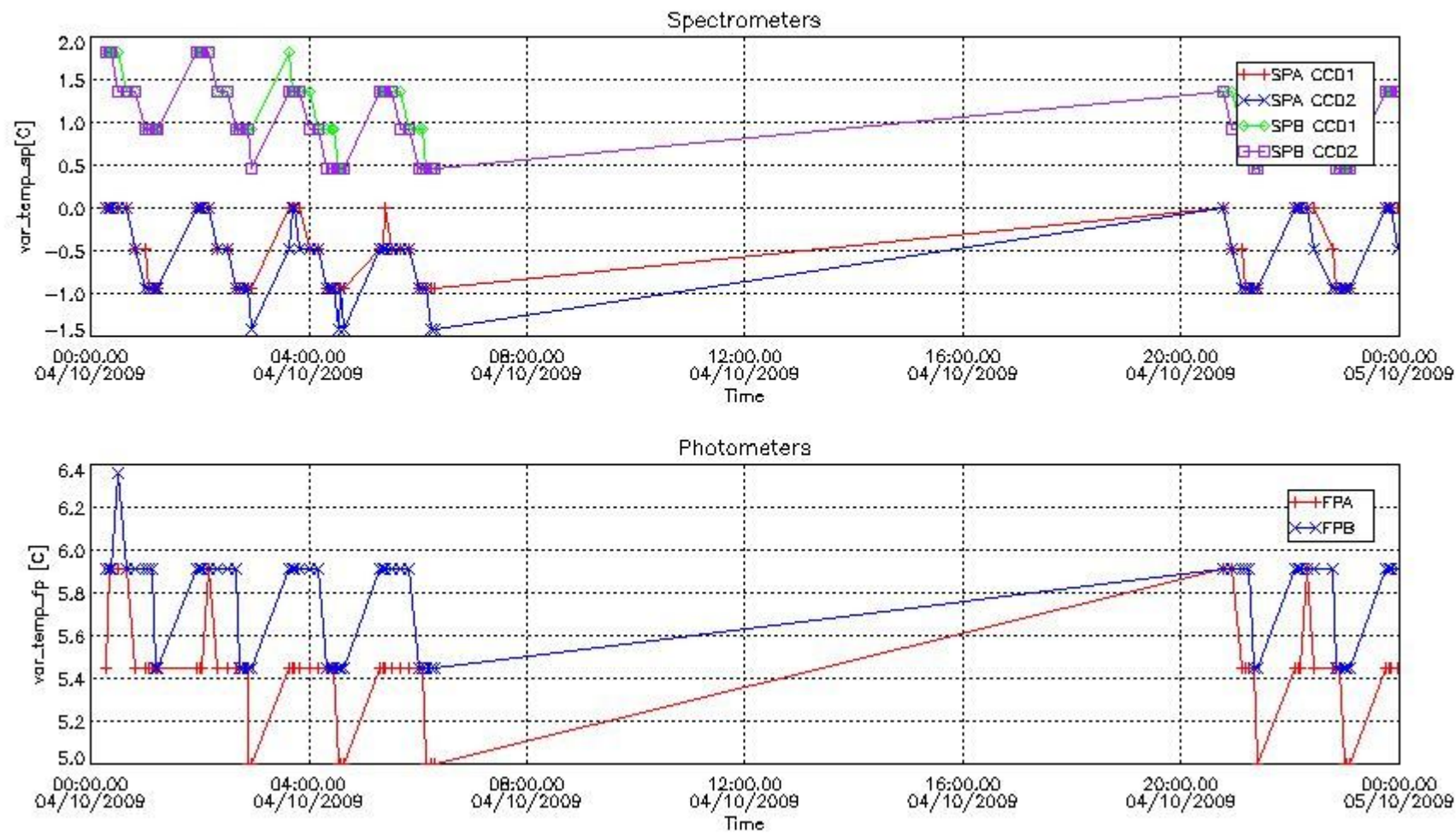
2.3 Summary of missing occultations (red segments in previous plot)

No missing products.

2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20091004_001614_000000382083_00073_39706_9126.N1	04-OCT-2009 00:16:14	Dark	38.000	132	15Rho Pup	2.8030	6900.0	76	39706	No
2	GOM_TRA_1PNPDE20091004_002002_000000432083_00073_39706_9127.N1	04-OCT-2009 00:20:02	Dark	43.000	88	31Eta CMa	2.4480	20000.	86	39706	No
3	GOM_TRA_1PNPDE20091004_002155_000000482083_00073_39706_9128.N1	04-OCT-2009 00:21:55	Dark	47.500	23	21Eps CMa	1.5020	26000.	95	39706	No
4	GOM_TRA_1PNPDE20091004_002918_000000432083_00074_39707_9129.N1	04-OCT-2009 00:29:18	Dark	43.000	108	Alp Col	2.6520	15200.	86	39707	No
5	GOM_TRA_1PNPDE20091004_003853_000000402083_00074_39707_9130.N1	04-OCT-2009 00:38:53	Straylight	40.000	157	The1Eri	2.9060	9300.0	80	39707	No
6	GOM_TRA_1PNPDE20091004_004910_000000342083_00074_39707_9131.N1	04-OCT-2009 00:49:10	Straylight	34.000	52	16Bet Cet	2.0370	4500.0	68	39707	No
7	GOM_TRA_1PNPDE20091004_005925_000000342083_00074_39707_9132.N1	04-OCT-2009 00:59:25	Bright	33.500	140	88Gam Peg	2.8340	26000.	67	39707	No
8	GOM_TRA_1PNPDE20091004_010332_000000342083_00074_39707_9133.N1	04-OCT-2009 01:03:32	Bright	33.500	58	21Alp And	2.0730	11000.	67	39707	No
9	GOM_TRA_1PNPDE20091004_010658_000000412083_00074_39707_9134.N1	04-OCT-2009 01:06:58	Bright	41.000	53	43Bet And	2.0480	3300.0	82	39707	No
10	GOM_TRA_1PNPDE20091004_011158_000000342083_00074_39707_9135.N1	04-OCT-2009 01:11:58	Bright	34.000	68	18Alp Cas	2.2250	4500.0	68	39707	No
11	GOM_TRA_1PNPDE20091004_011323_000000342083_00074_39707_9136.N1	04-OCT-2009 01:13:23	Bright	34.000	76	27Gam Cas	2.3000	30000.	68	39707	No
12	GOM_TRA_1PNPDE20091004_015651_000000382083_00074_39707_9131.N1	04-OCT-2009 01:56:51	Dark	37.500	132	15Rho Pup	2.8030	6900.0	75	39707	No

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



4. Overview of dark signal processing per product

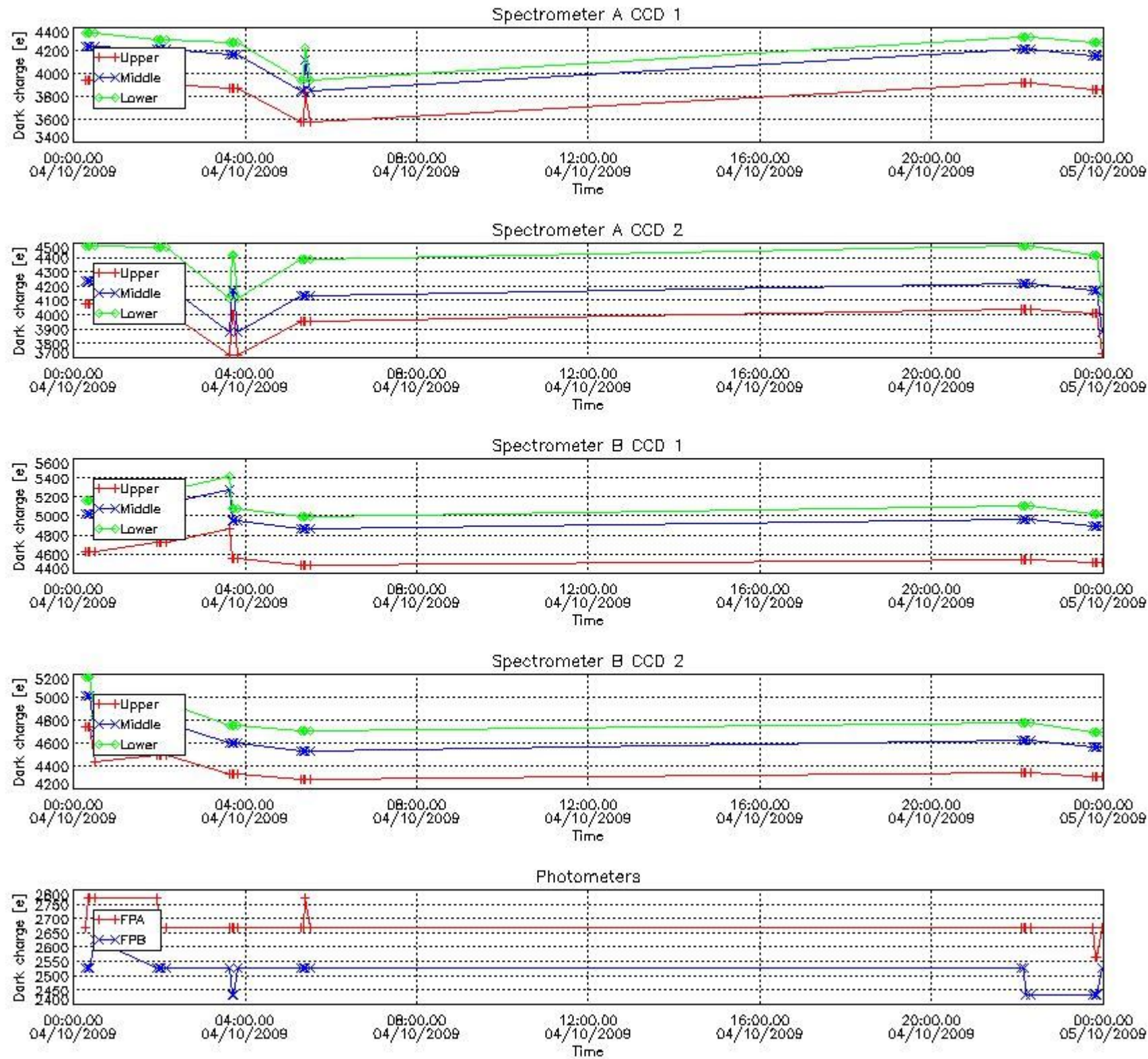
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20091004_204612_000000402083_00086_39719_9203.N1	DC map with no T dep.
GOM_TRA_1PNPDE20091004_205623_000000332083_00086_39719_9204.N1	DC map used
GOM_TRA_1PNPDE20091004_210634_000000332083_00086_39719_9205.N1	DC map used
GOM_TRA_1PNPDE20091004_211039_000000342083_00086_39719_9206.N1	DC map used
GOM_TRA_1PNPDE20091004_211403_000000402083_00086_39719_9207.N1	DC map used
GOM_TRA_1PNPDE20091004_211904_000000342083_00086_39719_9208.N1	DC map used
GOM_TRA_1PNPDE20091004_212029_000000342083_00086_39719_9209.N1	DC map used
GOM_TRA_1PNPDE20091004_212356_000000412083_00086_39719_9210.N1	DC map used

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



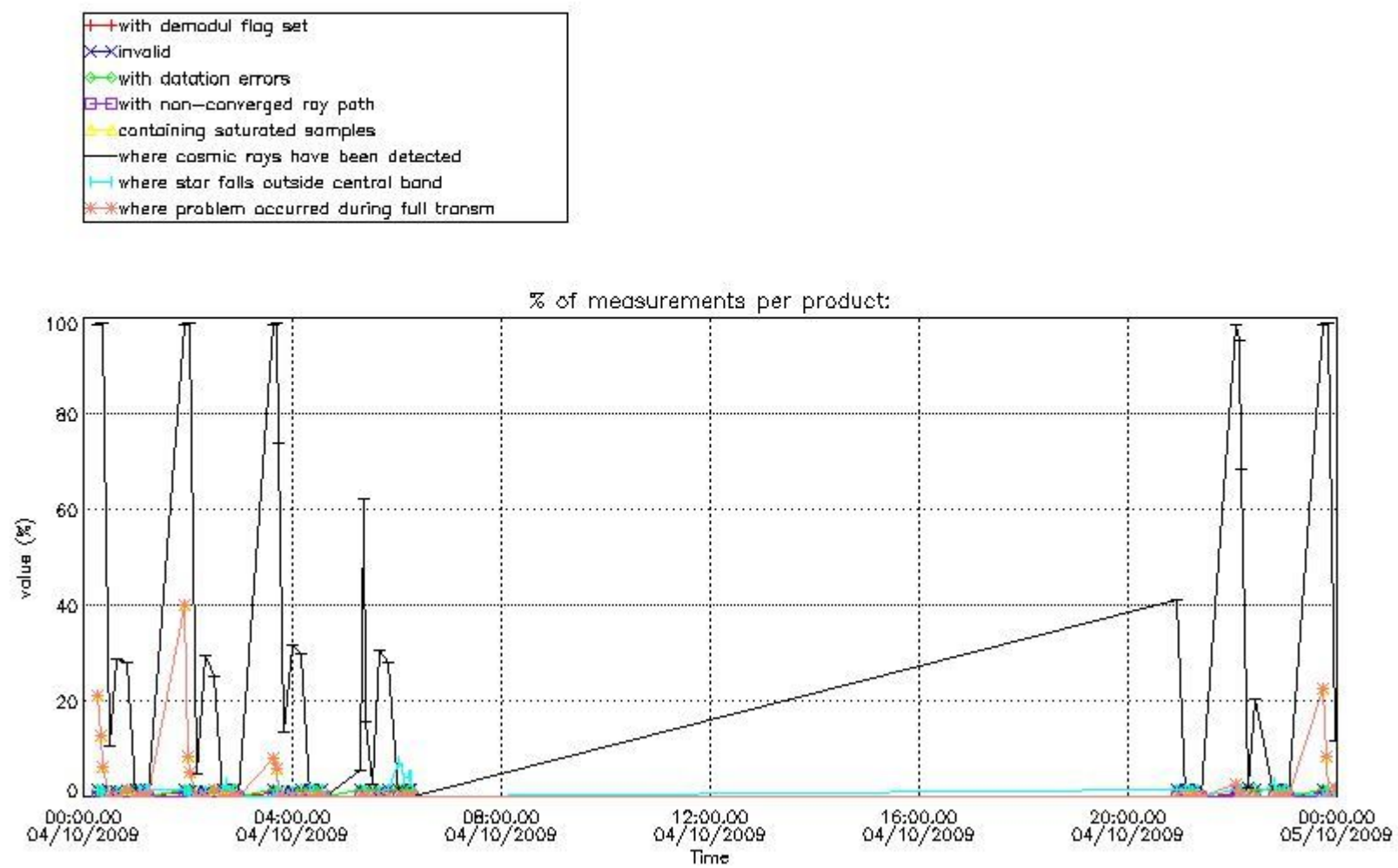
5. Demodulation flag and quality information monitoring

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.

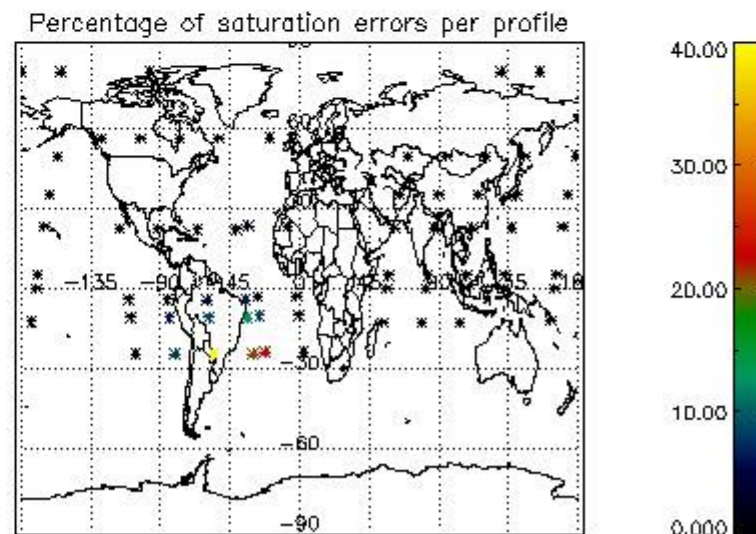
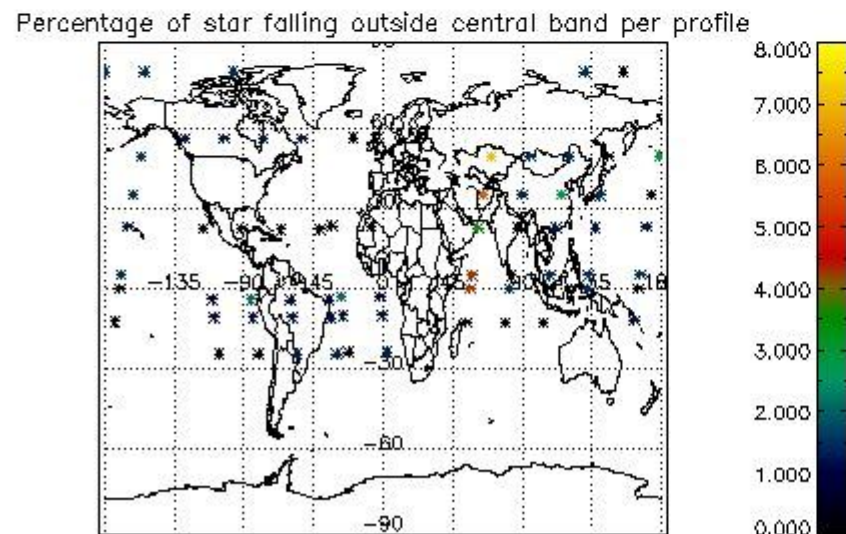
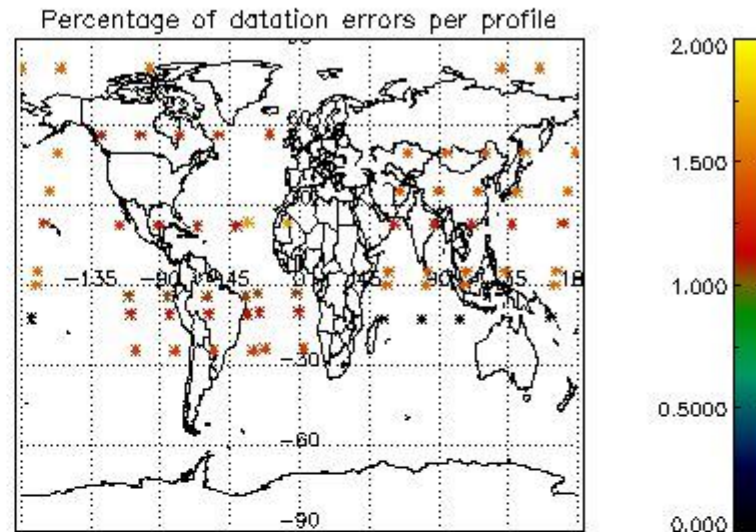
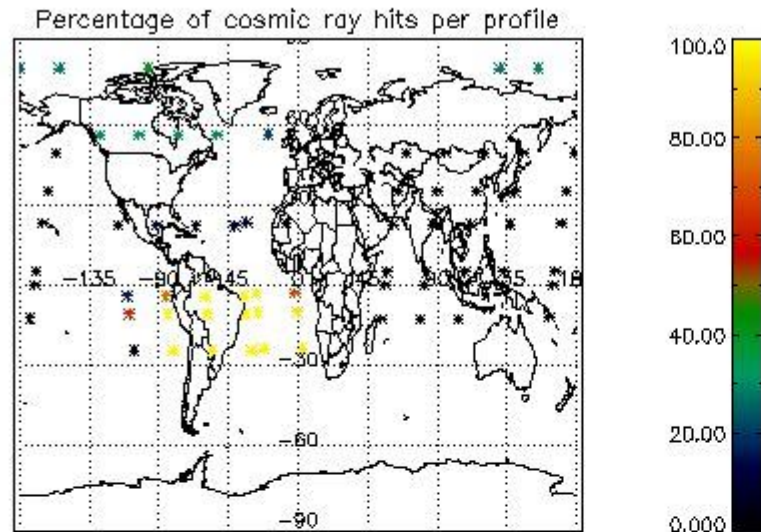
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	34.7826 %
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)



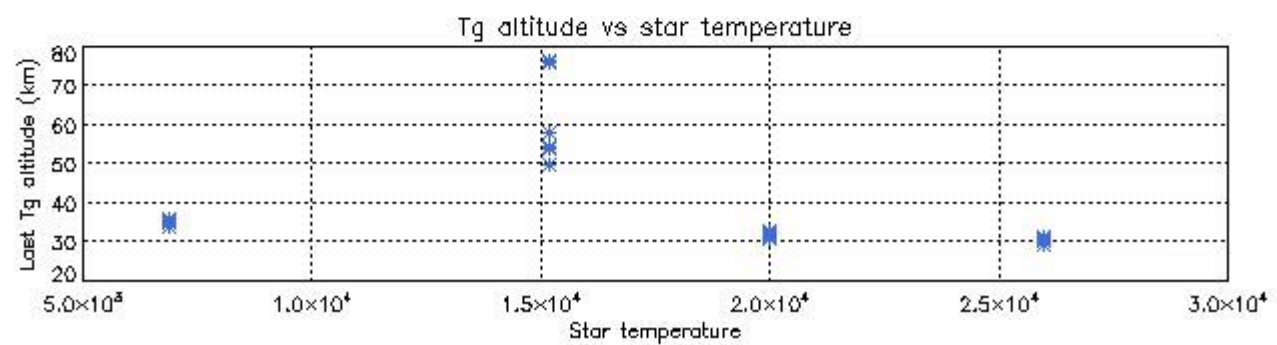
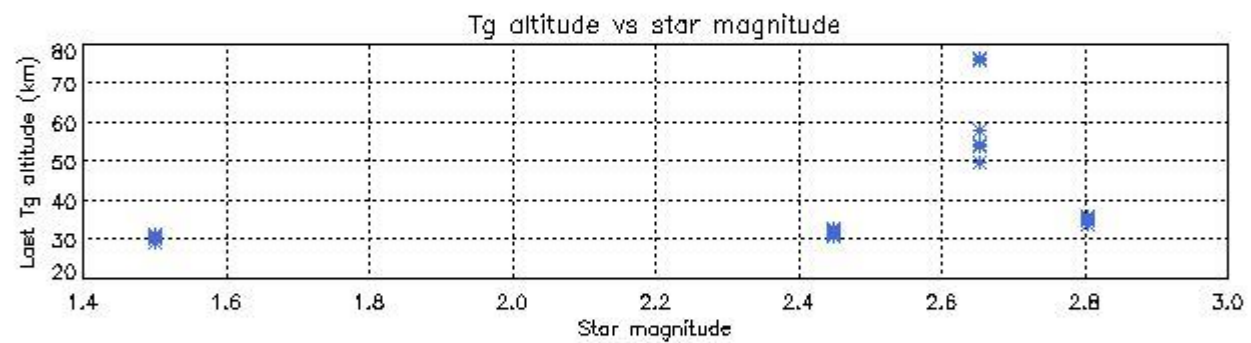
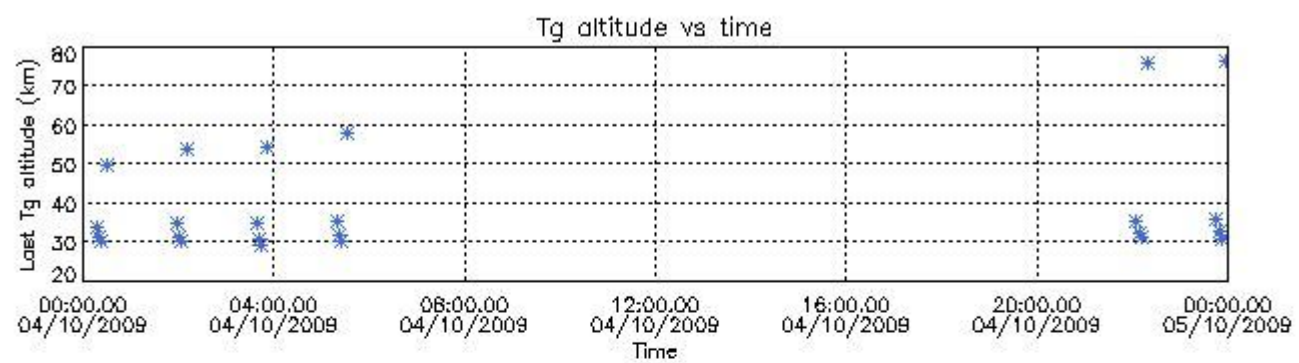
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	39.633	32.151	NaN
St. deviation:	14.061	2.6165	NaN
Maximum:	76.353	43.319	NaN
Minimum:	29.154	28.323	NaN
Number of data:	24.000	32.000	NaN

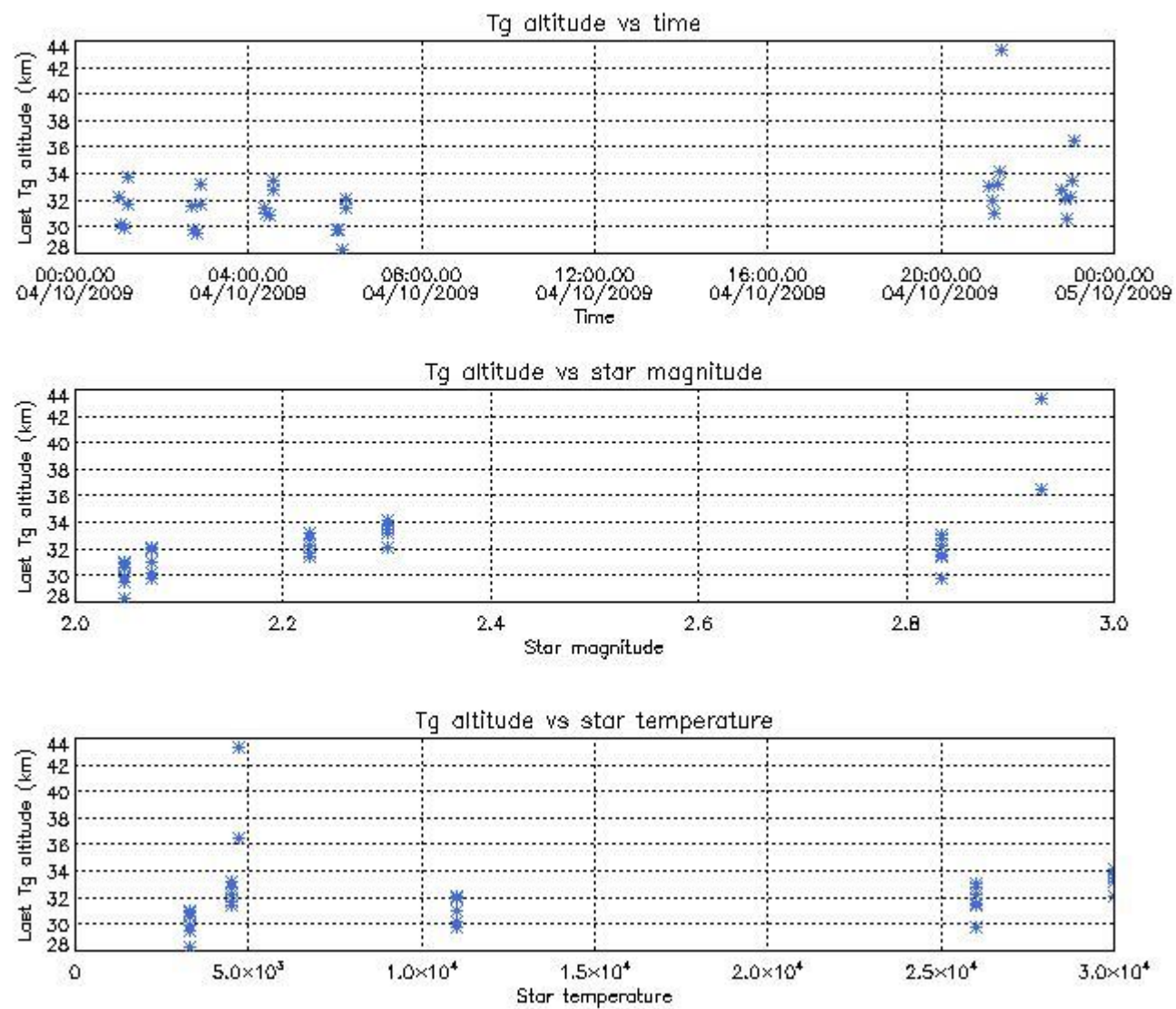
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

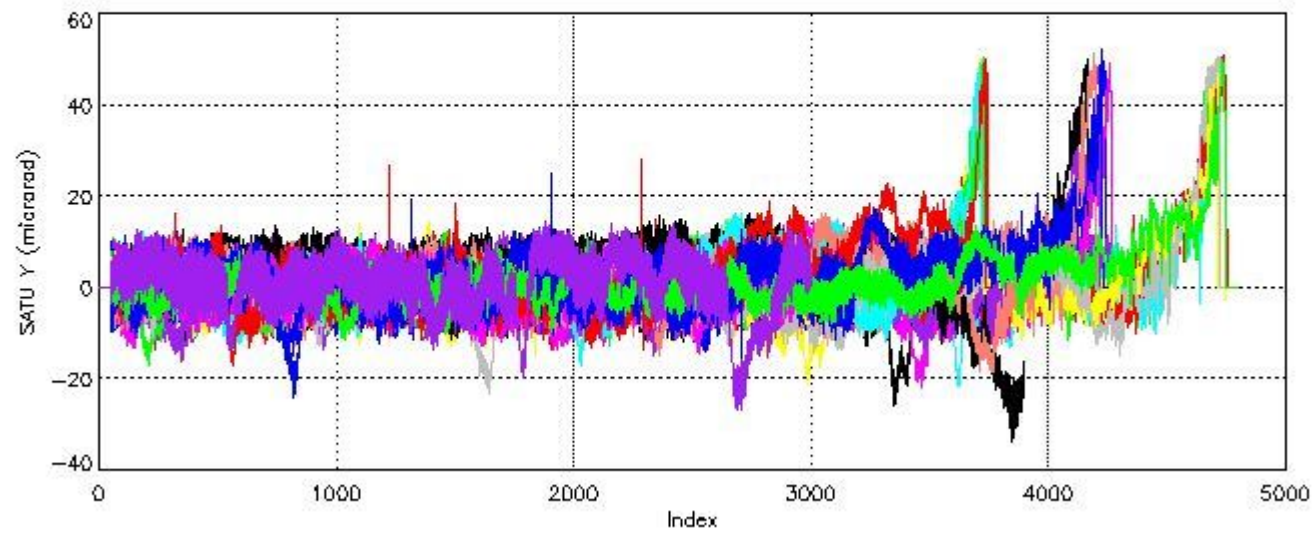
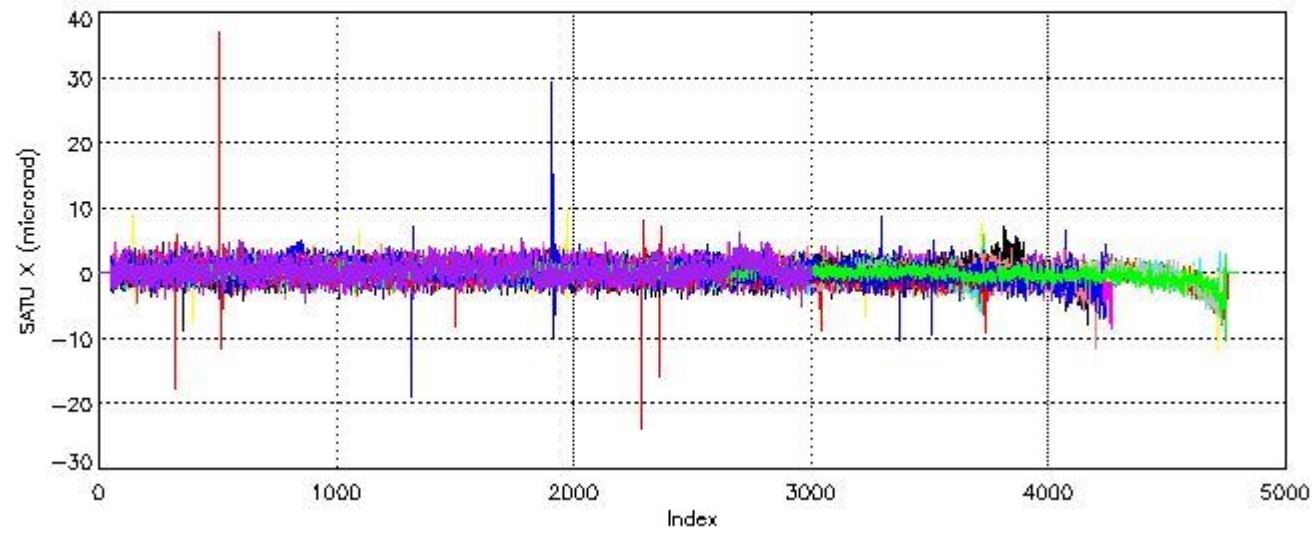


7. Star Acquisition and Tracking Unit (SATU)

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:	0.27094	-0.26480	0.23788	-0.70488
St. deviation:	1.0032	4.5294	0.89401	4.6279
Maximum:	36.800	16.100	6.0000	16.200
Minimum:	-17.800	-24.000	-6.3000	-26.700

Number of data:	30300.	30300.	31850.	31850.
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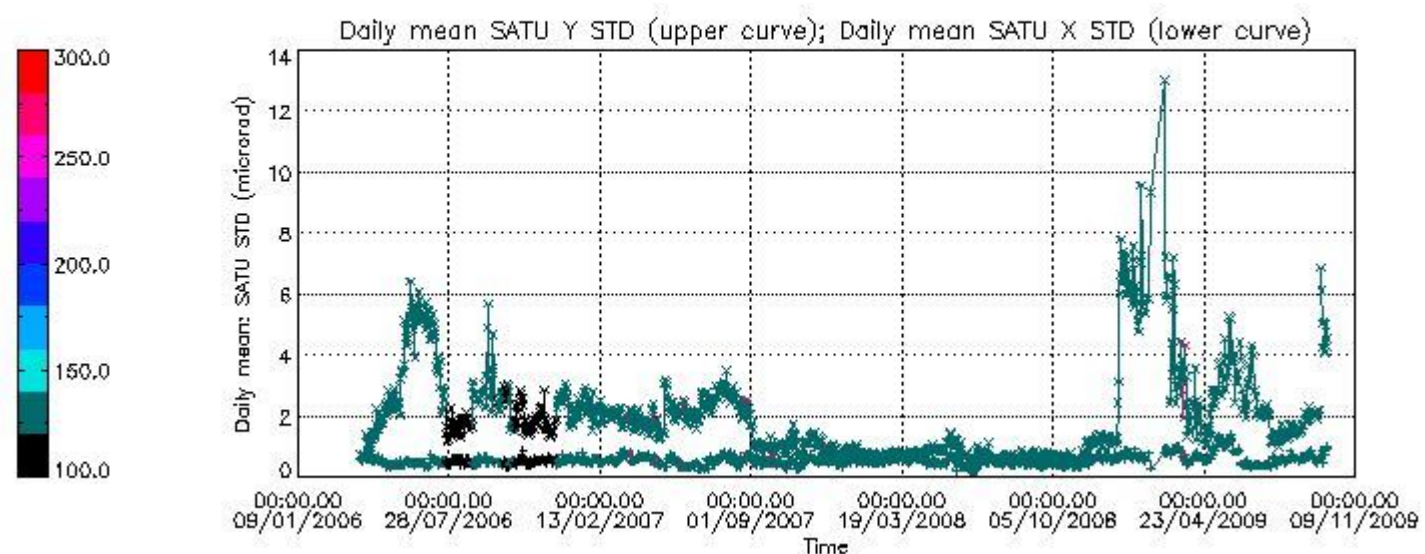
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

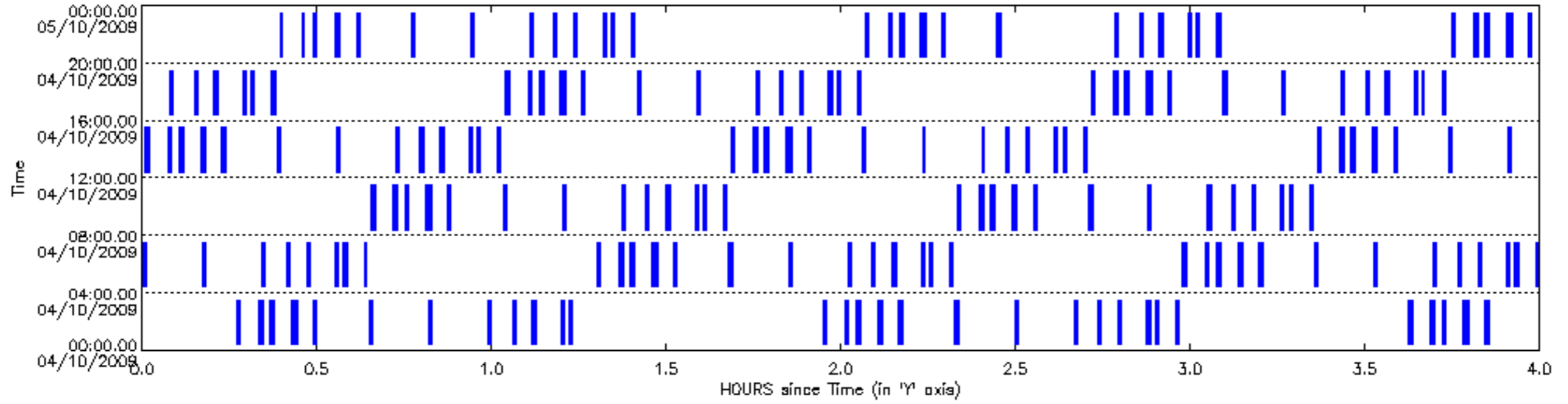
Lower curve: STD of SATU X axis

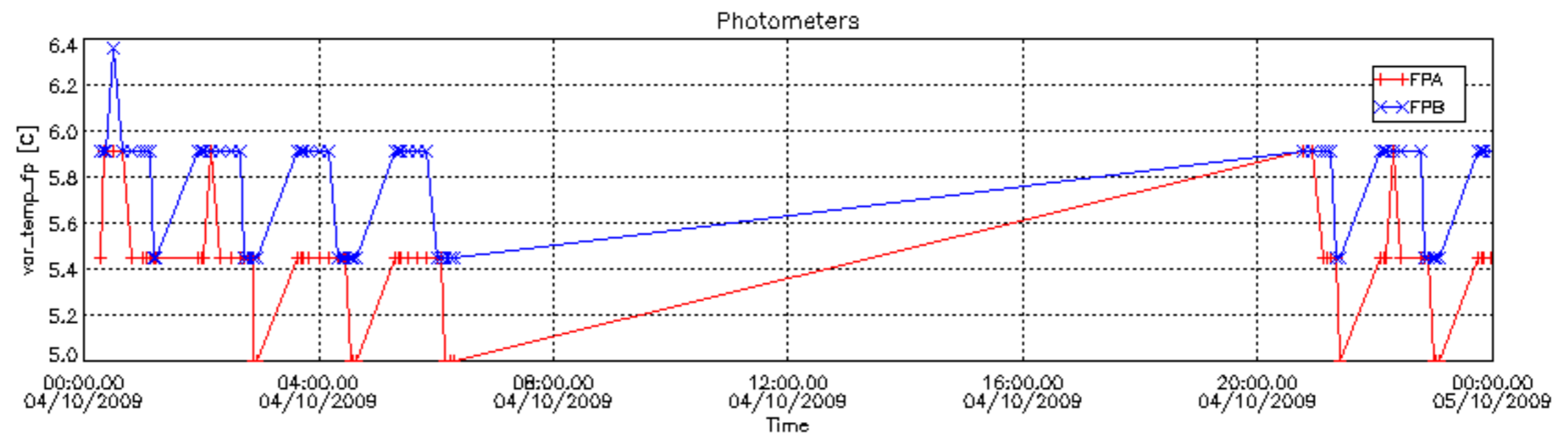
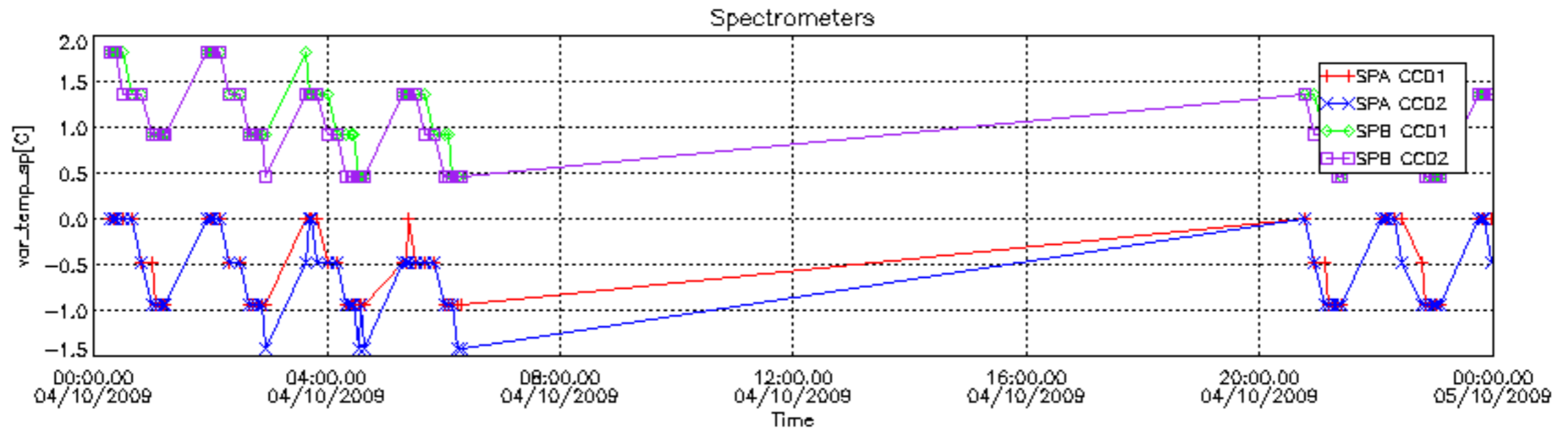


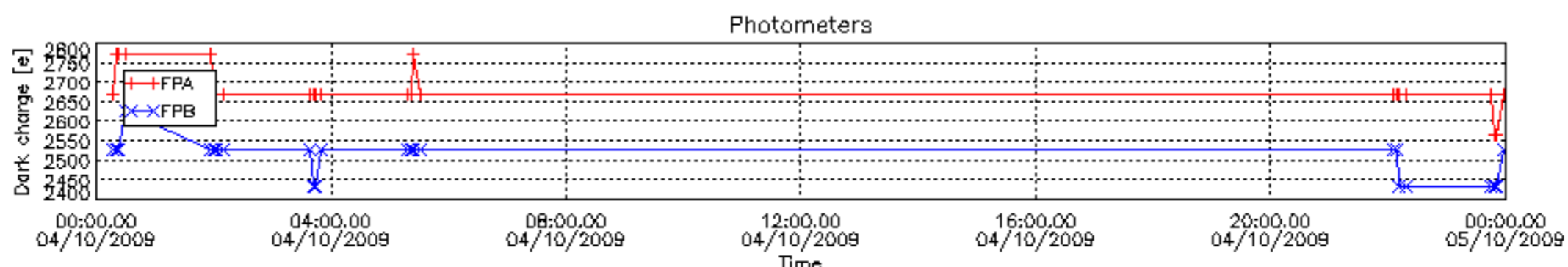
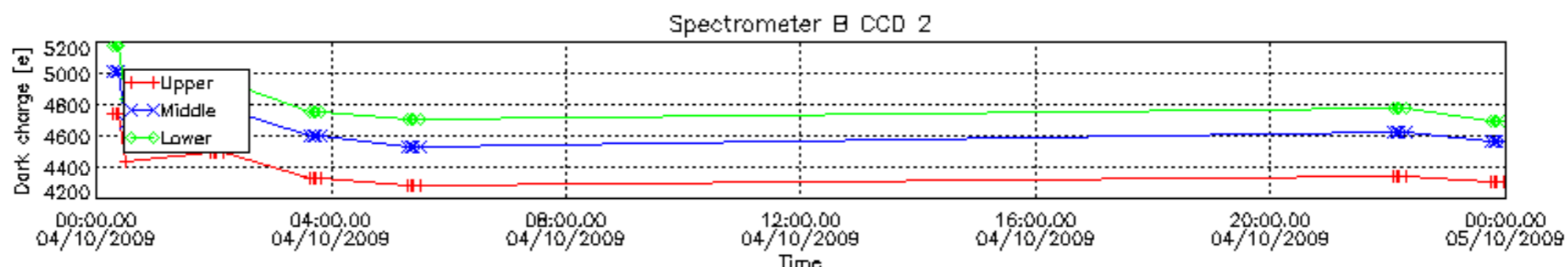
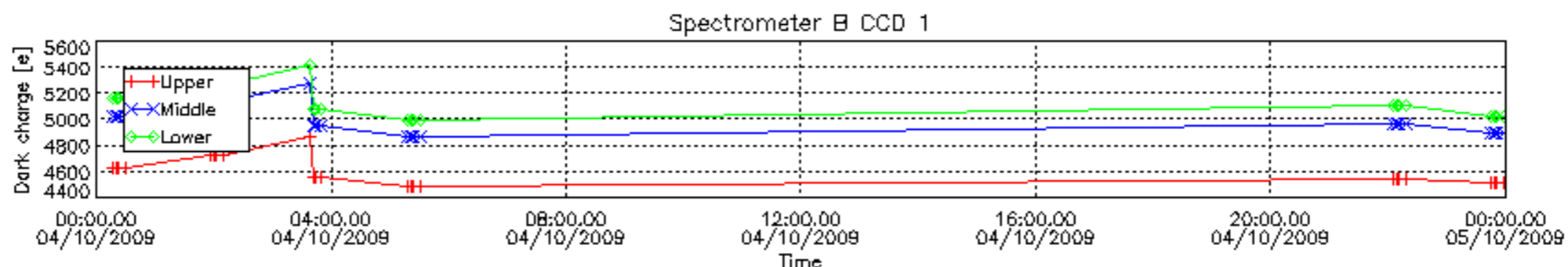
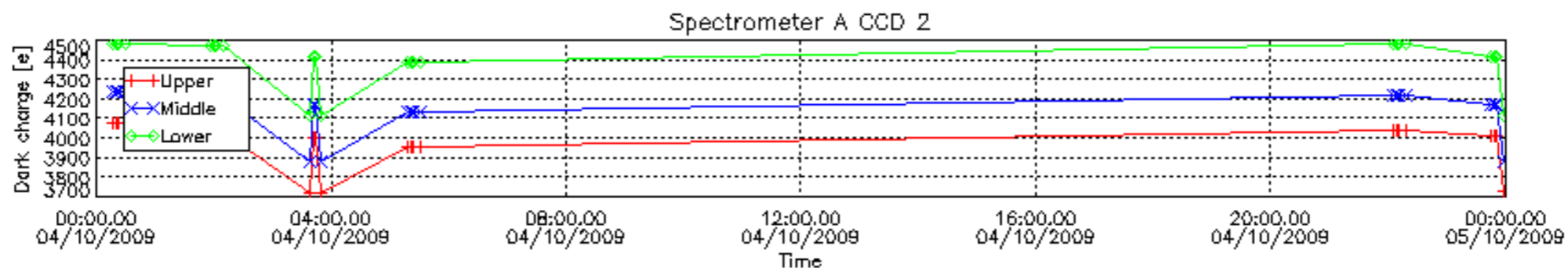
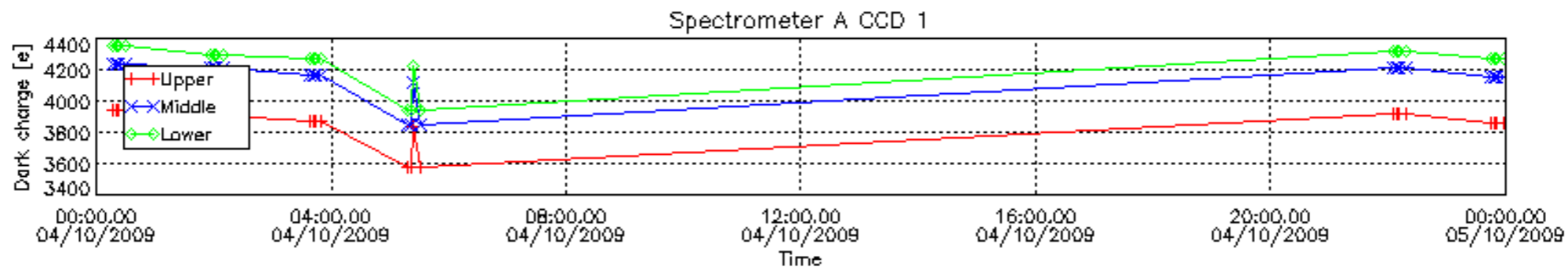
8. Auxiliary Data Files used for the production reported in section 2.4

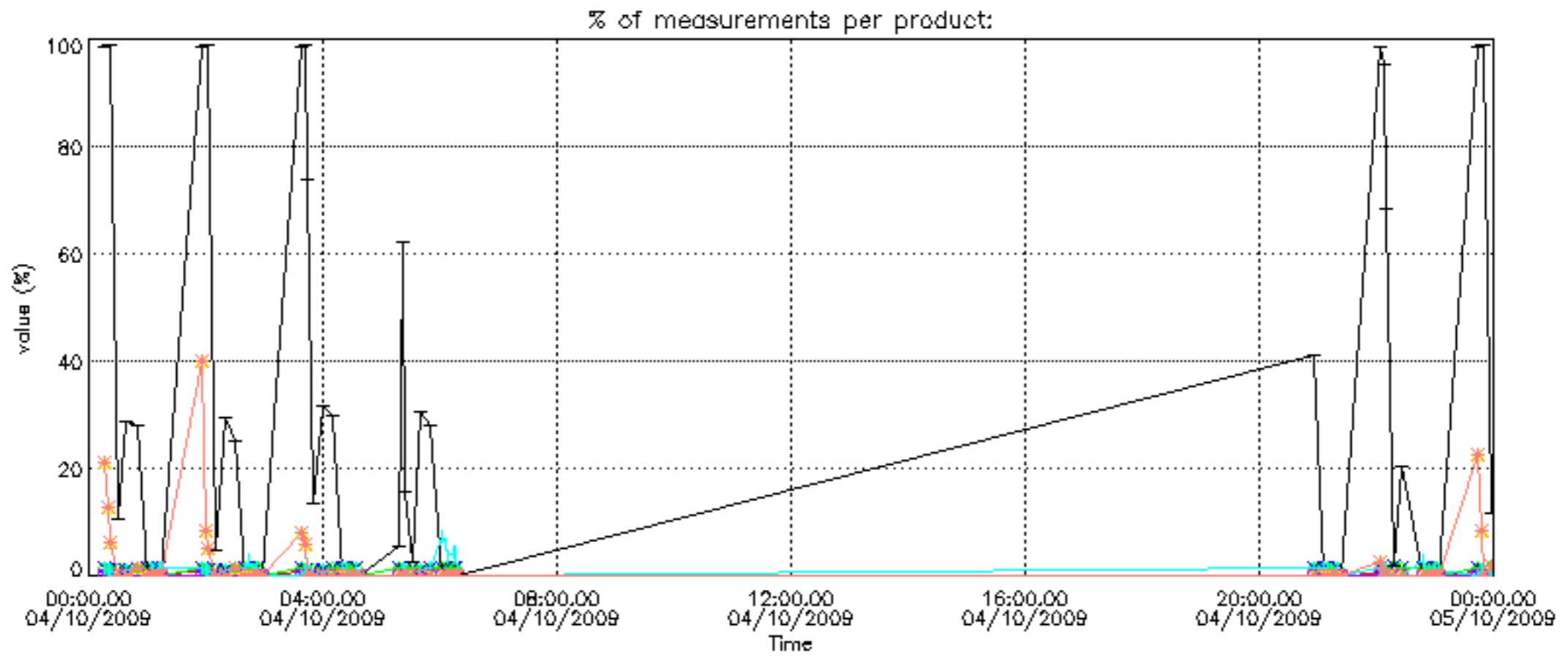
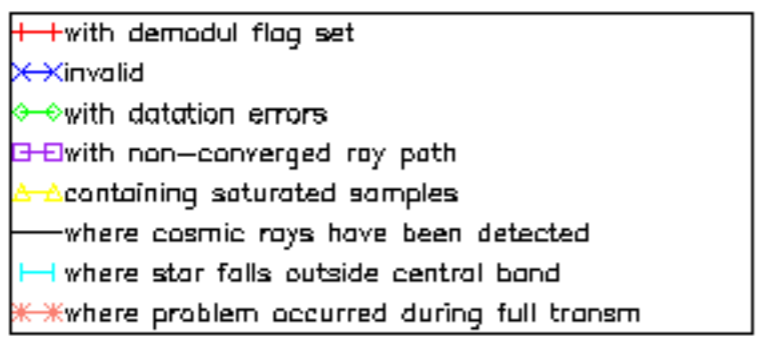
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	04-OCT-2009 00:16:14
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090930_074316_20090929_000000_20100101_000000	1	04-OCT-2009 00:16:14
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	04-OCT-2009 00:16:14
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	04-OCT-2009 00:16:14
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	04-OCT-2009 00:16:14
ECMWF_FILE	AUX_ECF_AXNECM20091003_064113_20091003_210000_20091004_090000	1	04-OCT-2009 00:16:14
ECMWF_FILE	AUX_ECF_AXNECM20091003_182113_20091004_030000_20091004_150000	24	04-OCT-2009 03:37:28
ECMWF_FILE	AUX_ECA_AXNECM20091004_062112_20091003_210000_20091004_090000	36	04-OCT-2009 05:18:05
ECMWF_FILE	AUX_ECF_AXNECM20091004_064112_20091004_150000_20091005_030000	48	04-OCT-2009 20:46:12
ECMWF_FILE	AUX_ECF_AXNECM20091004_064113_20091004_210000_20091005_090000	56	04-OCT-2009 22:04:14
OPTIONAL_ECMWF_FILE	MISSING	1	04-OCT-2009 00:16:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091004_000827_000054192083_00073_39706_8895.N1	1	04-OCT-2009 00:16:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091004_014405_000041442083_00074_39707_8896.N1	12	04-OCT-2009 01:56:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091004_025828_000060572083_00075_39708_8897.N1	24	04-OCT-2009 03:37:28
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091002_010112_20091001_184357_20091011_201011	36	04-OCT-2009 05:18:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091004_204625_000038252083_00086_39719_8899.N1	48	04-OCT-2009 20:46:12
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091002_010112_20091001_184357_20091011_201011	56	04-OCT-2009 22:04:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091004_233626_000057382083_00087_39720_8901.N1	67	04-OCT-2009 23:44:50

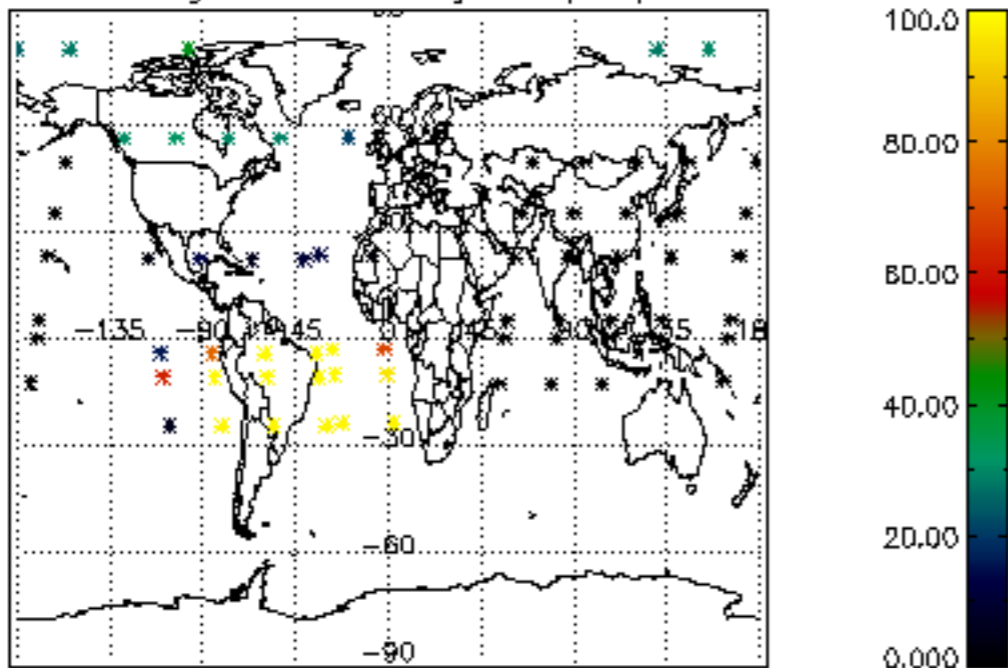




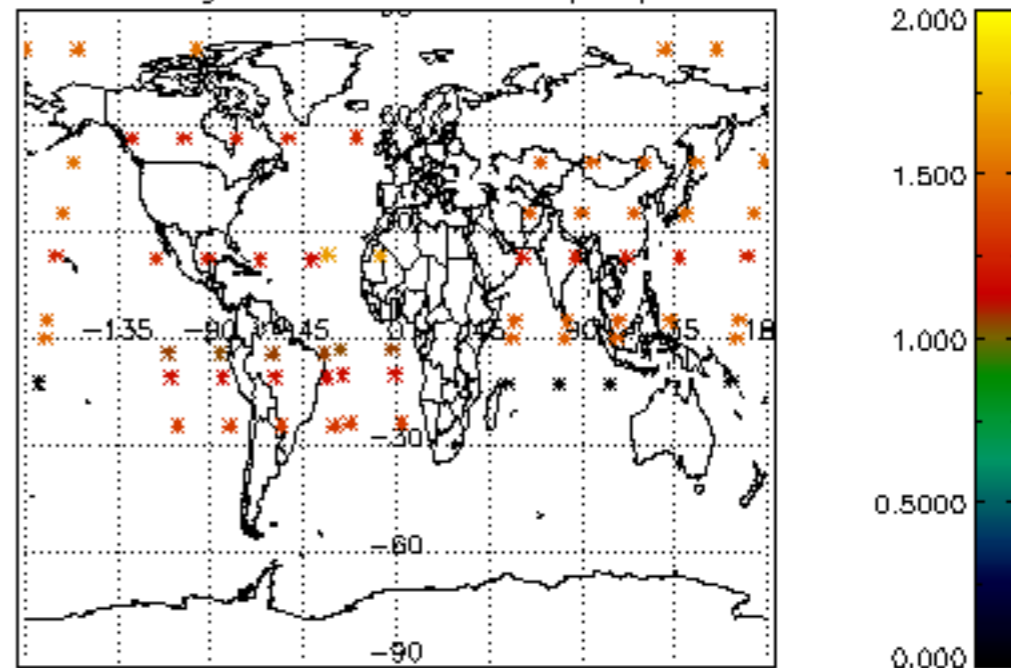




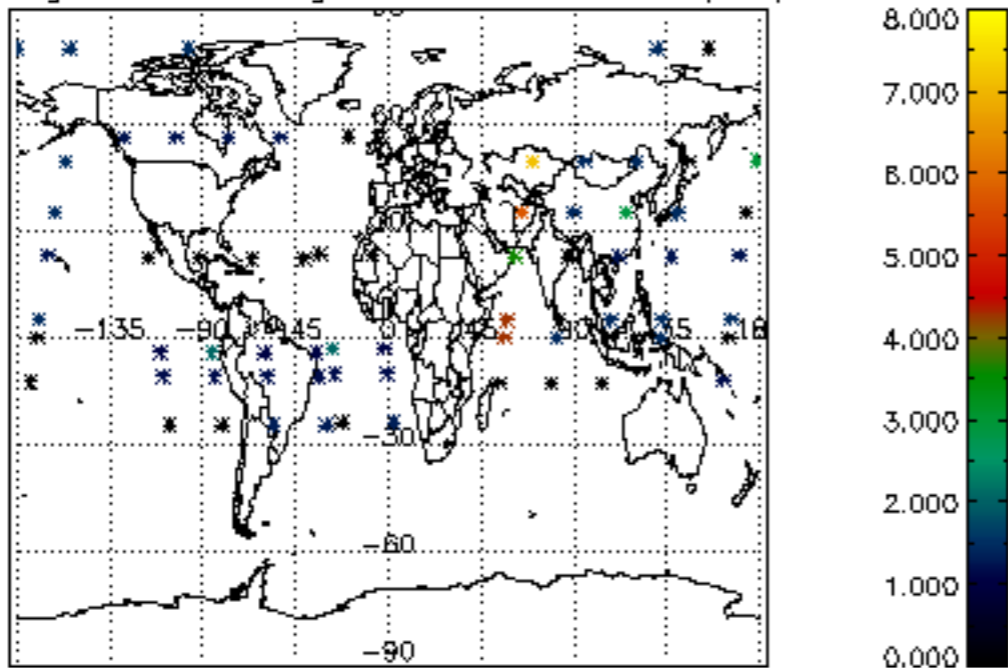
Percentage of cosmic ray hits per profile



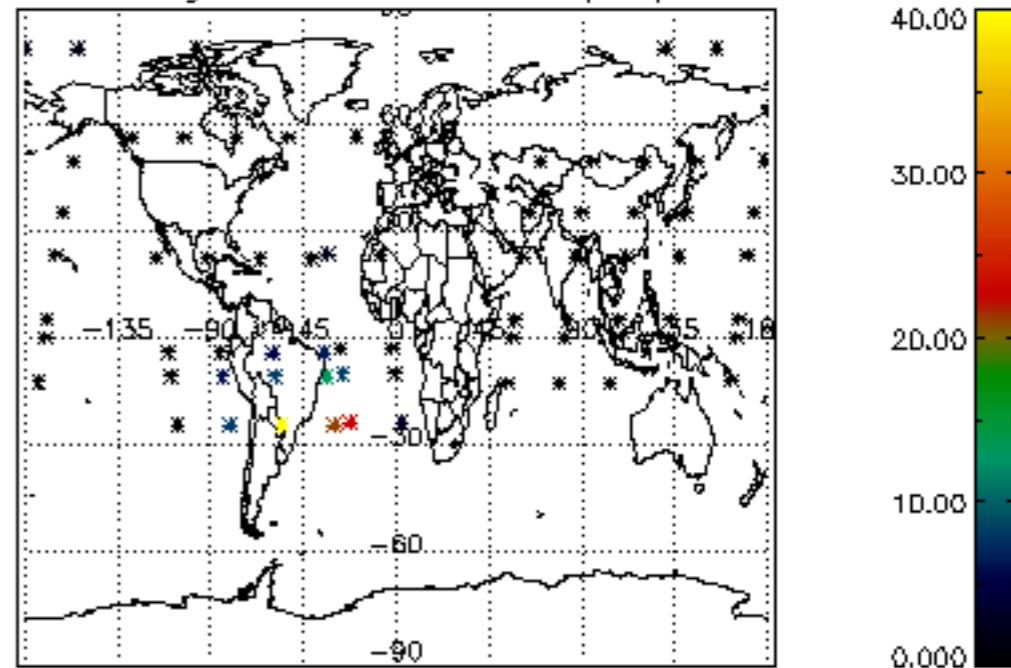
Percentage of datation errors per profile



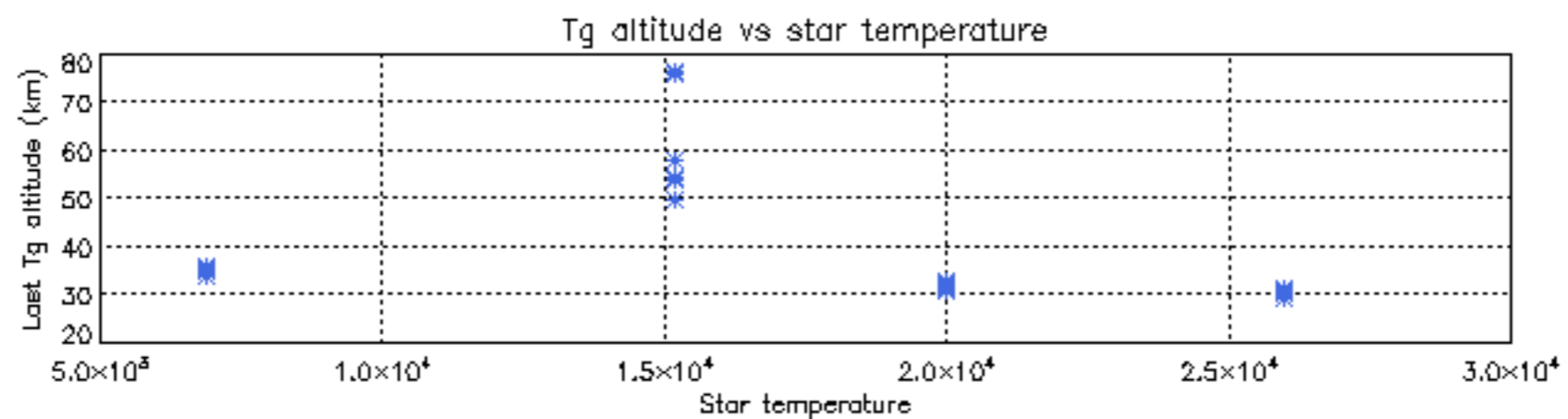
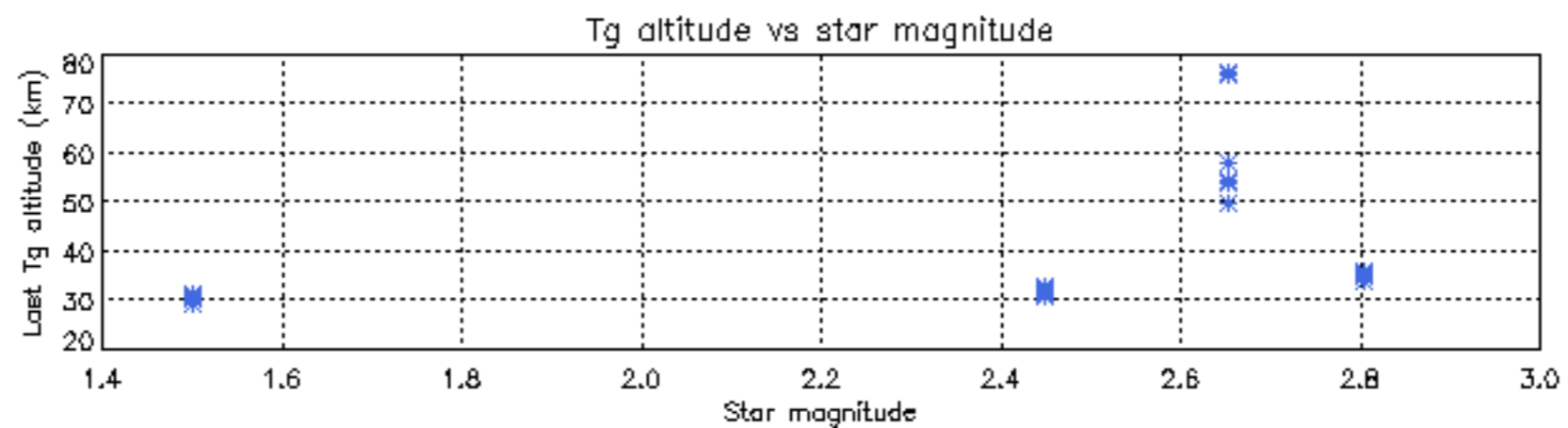
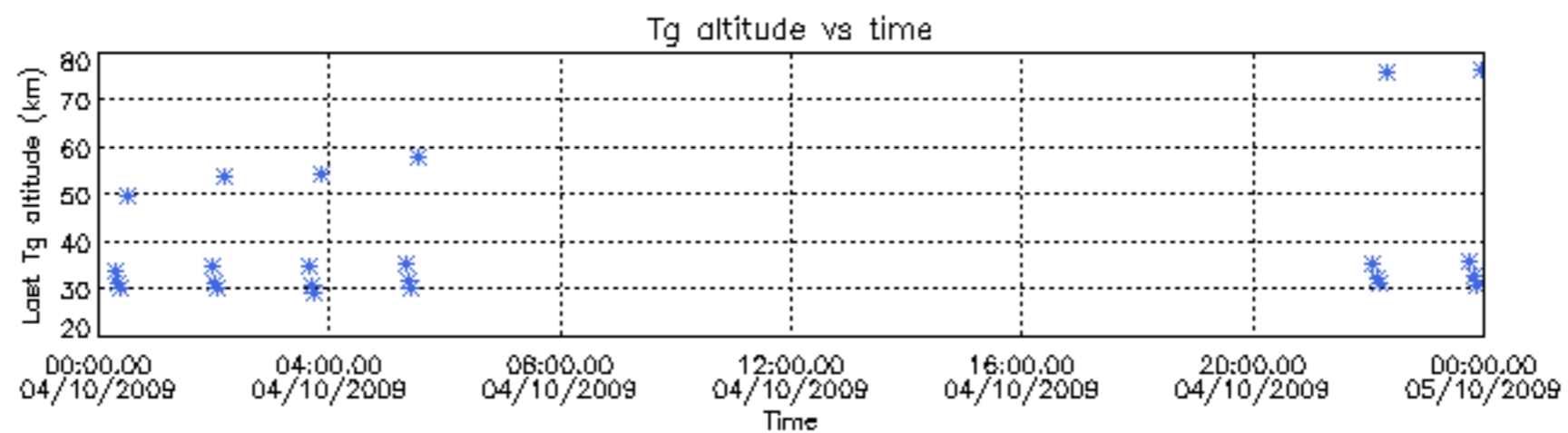
Percentage of star falling outside central band per profile



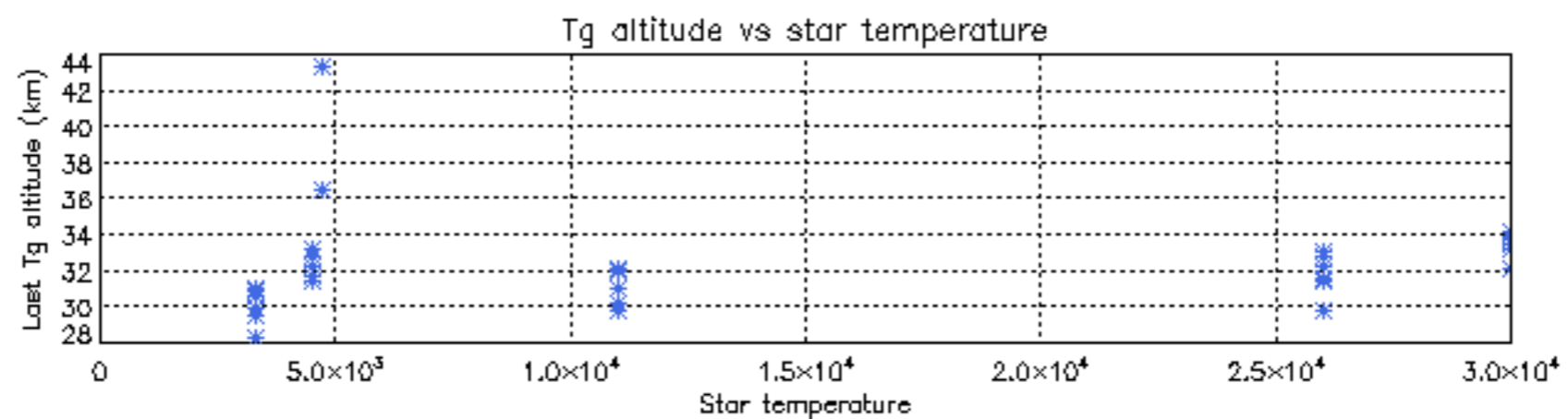
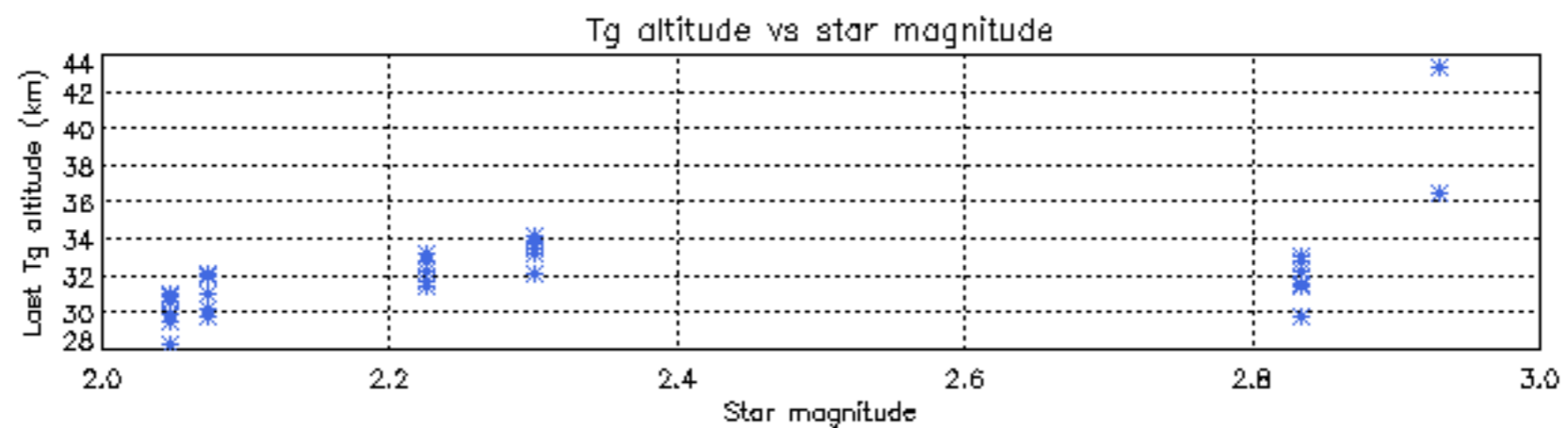
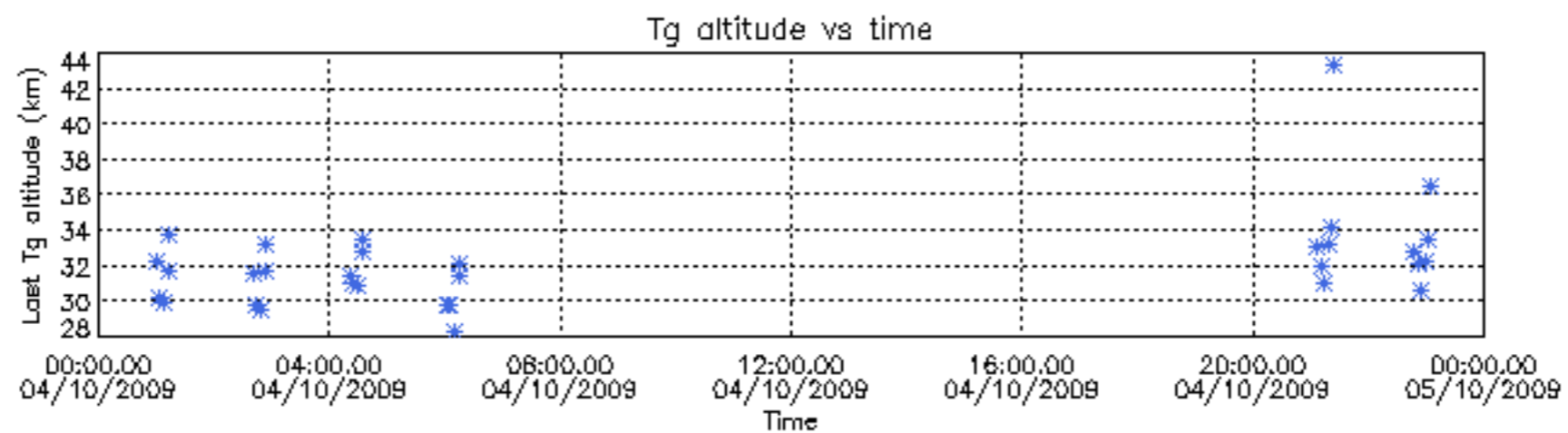
Percentage of saturation errors per profile

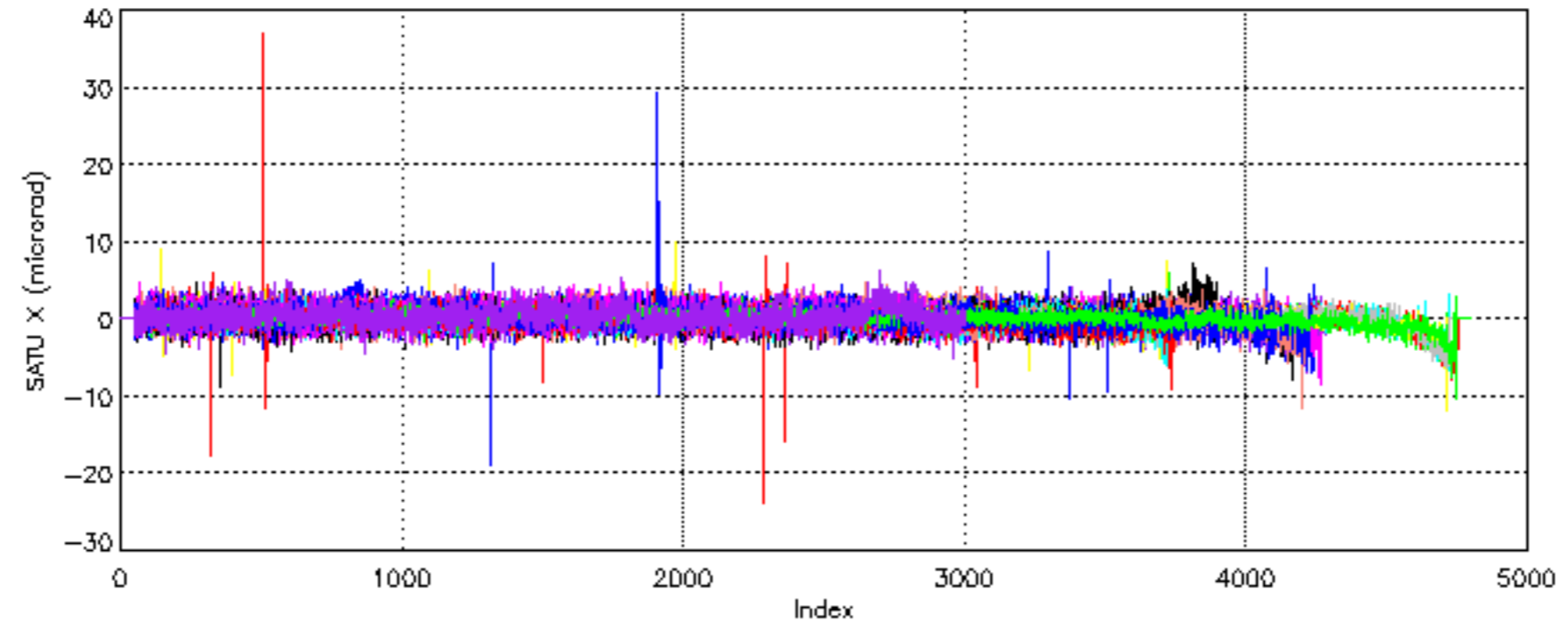


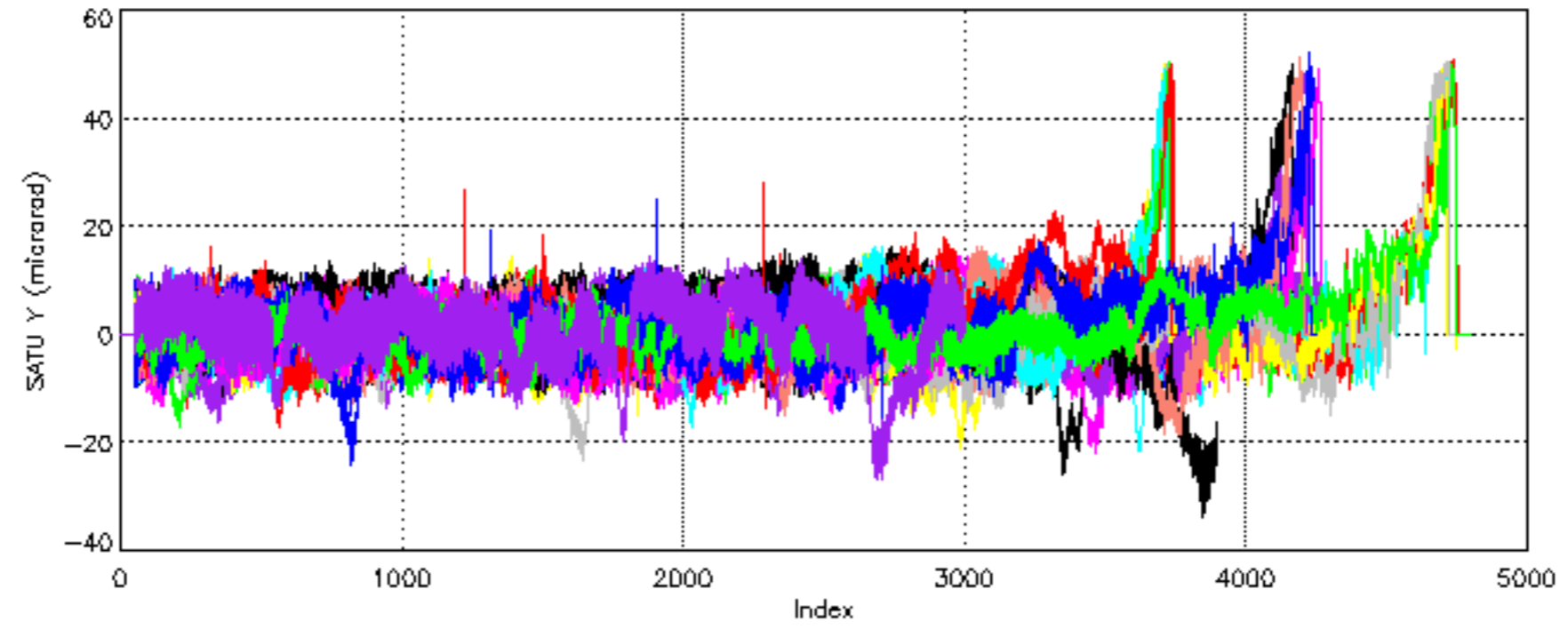
Tangent altitude at which the star is lost

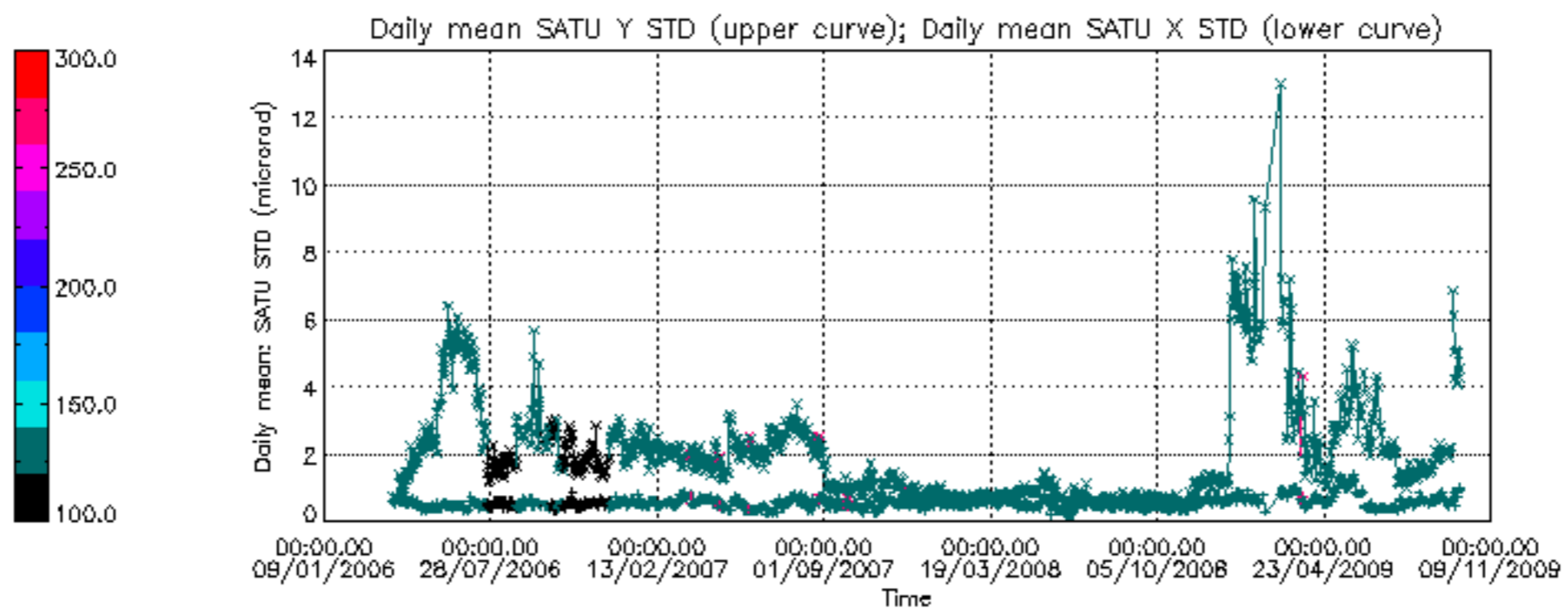


Tangent altitude at which the star is lost









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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20091001_000952_000050872083_00030_39663_8658.N1
 1; -449.6; 01-OCT-2009 00:09:52; Dark ; 35.5; 132; 15Rho Pup ; 2.80; 6900;occ; 71; 0;39663
 2; -232.4; 01-OCT-2009 00:13:29; Dark ; 40.0; 88; 31Eta CMA ; 2.45; 20000;occ; 80; 0;39663
 3; -128.1; 01-OCT-2009 00:15:14; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;39663
 4; 97.3; 01-OCT-2009 00:18:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39664
 5; 305.4; 01-OCT-2009 00:22:27; Dark ; 52.5; 108; Alp Col ; 2.65; 15200;occ; 105; 0;39664
 6; 915.5; 01-OCT-2009 00:32:37; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;39664
 7; 1557.3; 01-OCT-2009 00:43:19; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;39664
 8; 2184.9; 01-OCT-2009 00:53:47; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;39664
 9; 2434.7; 01-OCT-2009 00:57:57; Bright; 35.0; 58; 21Alp And ; 2.07; 11000;occ; 70; 0;39664
10; 2659.8; 01-OCT-2009 01:01:42; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;39664
11; 2945.5; 01-OCT-2009 01:06:27; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39664
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13; 4601.5; 01-OCT-2009 01:34:03; Bright; 36.5; 17; 78Bet Gem ; 1.16; 4500;occ; 73; 0;39664
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 5; 306.9; 01-OCT-2009 02:03:05; Dark ; 52.0; 108; Alp Col ; 2.65; 15200;occ; 104; 0;39665
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6; 4603.1; 01-OCT-2009 11:37:41; Bright; 37.5; 17; 78Bet Gem ; 1.16; 4500;occ; 75; 0;39670
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2; 2582.5; 24-OCT-2009 03:58:37; Bright; 39.5; 173; 4Bet Tri ; 3.00; 8900;occ; 79; 0;39995
3; 2701.3; 24-OCT-2009 04:00:36; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;39995
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2; 2577.6; 24-OCT-2009 20:44:32; Bright; 43.0; 173; 4Bet Tri ; 3.00; 8900;occ; 86; 0;40005
3; 2696.7; 24-OCT-2009 20:46:31; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;40005
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2; 2578.6; 24-OCT-2009 22:25:09; Bright; 7.5; 173; 4Bet Tri ; 3.00; 8900;occ; 15; 0;40006
3; 2696.6; 24-OCT-2009 22:27:07; Bright; 9.0; 73; 57Gam1And ; 2.26; 13100;occ; 18; 0;40006
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2; 444.5; 24-OCT-2009 23:30:10; Dark ; 2.5; 2; Alp Car ; -0.74; 7000;occ; 5; 0;40007
3; 2296.2; 25-OCT-2009 00:01:02; Bright; 4.5; 105; 6Bet Ari ; 2.64; 8900;occ; 9; 0;40007
4; 2577.2; 25-OCT-2009 00:05:43; Bright; 4.5; 173; 4Bet Tri ; 3.00; 8900;occ; 9; 0;40007
5; 2696.3; 25-OCT-2009 00:07:42; Bright; 4.0; 73; 57Gam1And ; 2.26; 13100;occ; 8; 0;40007
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3; 2698.4; 24-OCT-2009 14:04:09; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;40001
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3; 2295.6; 25-OCT-2009 03:22:13; Bright; 15.5; 105; 6Bet Ari ; 2.64; 8900;occ; 31; 0;40009
4; 2575.9; 25-OCT-2009 03:26:54; Bright; 18.0; 173; 4Bet Tri ; 3.00; 8900;occ; 36; 0;40009
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2; 110.7; 25-OCT-2009 06:07:00; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;40011
3; 256.6; 25-OCT-2009 06:09:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40011
4; 448.3; 25-OCT-2009 06:12:38; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;40011
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6; 2575.2; 25-OCT-2009 06:48:05; Bright; 42.5; 173; 4Bet Tri ; 3.00; 8900;occ; 85; 0;40011
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3; 2570.6; 25-OCT-2009 23:34:00; Bright; 41.5; 173; 4Bet Tri ; 3.00; 8900;occ; 83; 0;40021
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3; 257.6; 25-OCT-2009 07:50:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40012
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2; 2574.2; 25-OCT-2009 08:28:40; Bright; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;40012
3; 2693.6; 25-OCT-2009 08:30:39; Bright; 12.0; 73; 57Gam1And ; 2.26; 13100;occ; 24; 0;40012
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3; 2693.0; 25-OCT-2009 10:11:15; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;40013
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3; 2693.0; 25-OCT-2009 11:51:51; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;40014
4; 6149.4; 25-OCT-2009 12:49:27; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;40014
5; 6296.2; 25-OCT-2009 12:51:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40014
6; 6486.4; 25-OCT-2009 12:55:04; Dark ; 47.5; 2; Alp Car ;-0.74; 7000;occ; 95; 0;40014
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2; 2573.1; 25-OCT-2009 13:30:26; Bright; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;40015
3; 2692.5; 25-OCT-2009 13:32:26; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;40015
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2; 2572.6; 25-OCT-2009 15:11:02; Bright; 41.0; 173; 4Bet Tri ; 3.00; 8900;occ; 82; 0;40016
3; 2692.3; 25-OCT-2009 15:13:02; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;40016
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2; 2568.9; 26-OCT-2009 06:16:22; Bright; 2.0; 173; 4Bet Tri ; 3.00; 8900;occ; 4; 0;40025
3; 2688.2; 26-OCT-2009 06:18:21; Bright; 3.5; 73; 57Gam1And ; 2.26; 13100;occ; 7; 0;40025
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2; 123.6; 26-OCT-2009 07:16:12; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;40026
3; 270.7; 26-OCT-2009 07:18:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40026
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3; 5407.6; 26-OCT-2009 13:46:04; Dark ; 19.5; 48; 30Alp Hya ; 1.98; 4100;occ; 39; 0;40029
4; 6163.3; 26-OCT-2009 13:58:40; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;40029
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3; 4894.8; 26-OCT-2009 15:18:07; Bright; 43.5; 22; 32Alp Leo ; 1.36; 15200;occ; 87; 0;40030
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3; 278.2; 26-OCT-2009 20:43:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40034
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3; 6324.6; 27-OCT-2009 15:10:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40044
4; 6511.2; 27-OCT-2009 15:13:26; Dark ; 47.0; 2; Alp Car ;-0.74; 7000;occ; 94; 0;40044
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20091027_154812_000039992083_00412_40045_5359.N1
1; 2560.6; 27-OCT-2009 15:48:12; Bright; 39.5; 173; 4Bet Tri ; 3.00; 8900;occ; 79; 0;40045
2; 2681.2; 27-OCT-2009 15:50:12; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;40045
3; 6512.1; 27-OCT-2009 16:54:03; Dark ; 48.0; 2; Alp Car ;-0.74; 7000;occ; 96; 0;40045
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20091027_183134_000002372083_00414_40047_5360.N1
1; 290.5; 27-OCT-2009 18:31:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40047
2; 475.9; 27-OCT-2009 18:34:39; Dark ; 52.5; 2; Alp Car ;-0.74; 7000;occ; 105; 0;40047
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20091027_190923_000001592083_00414_40047_5361.N1
1; 2559.7; 27-OCT-2009 19:09:23; Bright; 60.0; 173; 4Bet Tri ; 3.00; 8900;occ; 120; 0;40047
2; 2679.9; 27-OCT-2009 19:11:23; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;40047
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1; 2958.5; 28-OCT-2009 20:25:01; Bright; 42.0; 160; 23Gam Per ; 2.93; 4700;occ; 84; 0;40062
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20091028_220052_000000122083_00430_40063_8825.N1
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20091028_073242_000016582083_00421_40054_5362.N1
1; -1128.7; 28-OCT-2009 07:32:42; Bright; 52.0; 22; 32Alp Leo ; 1.36; 15200;occ; 104; 0;40054
2; 298.0; 28-OCT-2009 07:56:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40055

3; 482.8; 28-OCT-2009 07:59:33; Dark ; 47.0; 2; Alp Car ; -0.74; 7000; occ; 94; 0; 40055

