

GOMOS Daily Report 06-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	09OCT2009 04:38:07
Data source version	GOMOS/5.00L03
Start time of products	06OCT2009 00:03:29
Stop time of products	06OCT2009 23:41:26
Store outputs in DB	Yes
Nb of level 1b prods	52
Nb of prods with errors	1

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

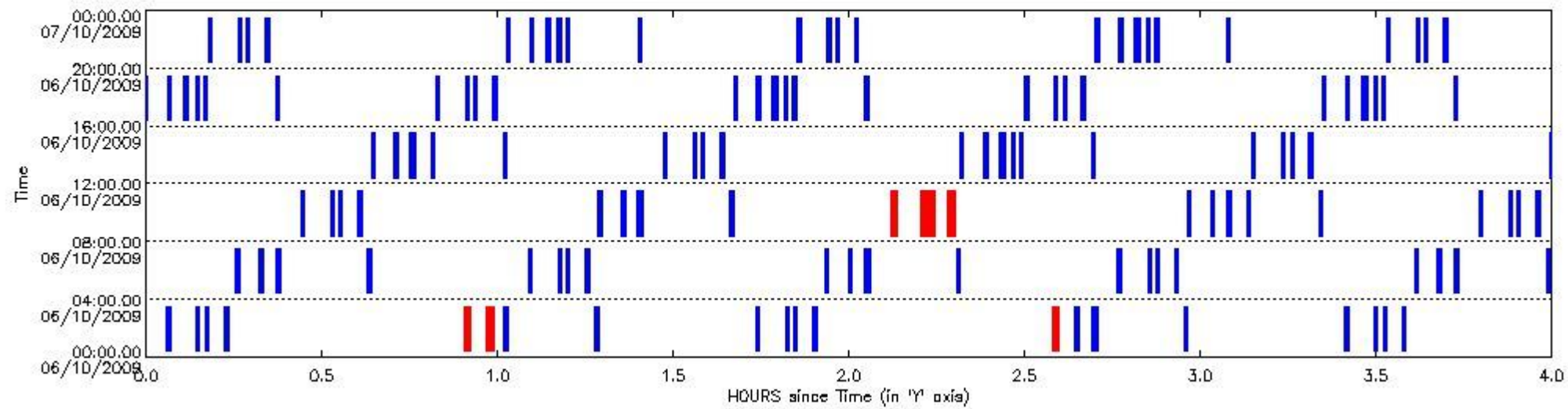
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

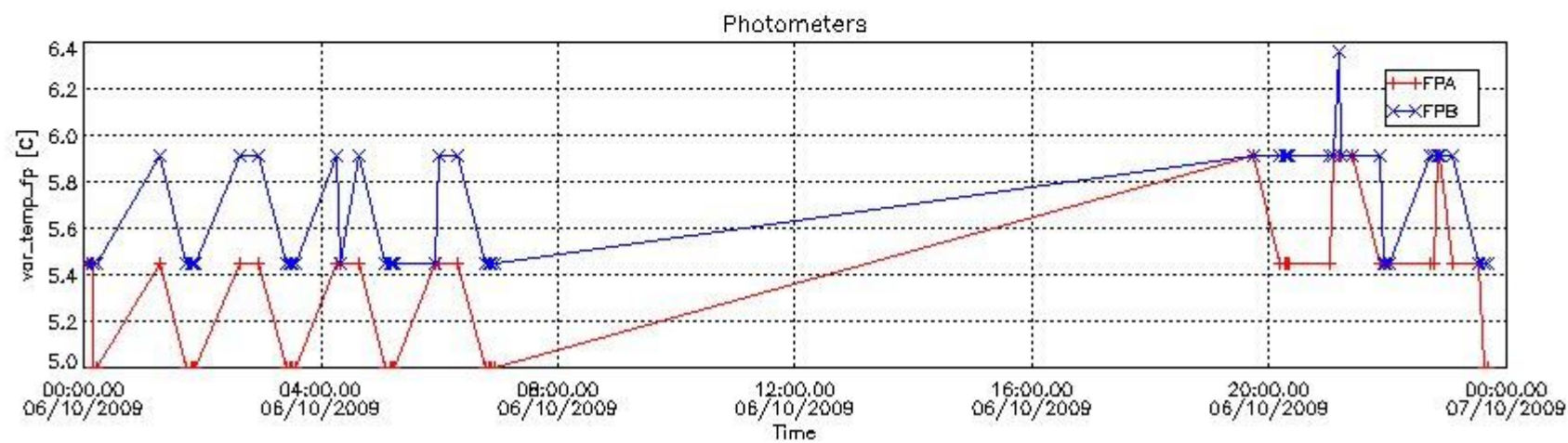
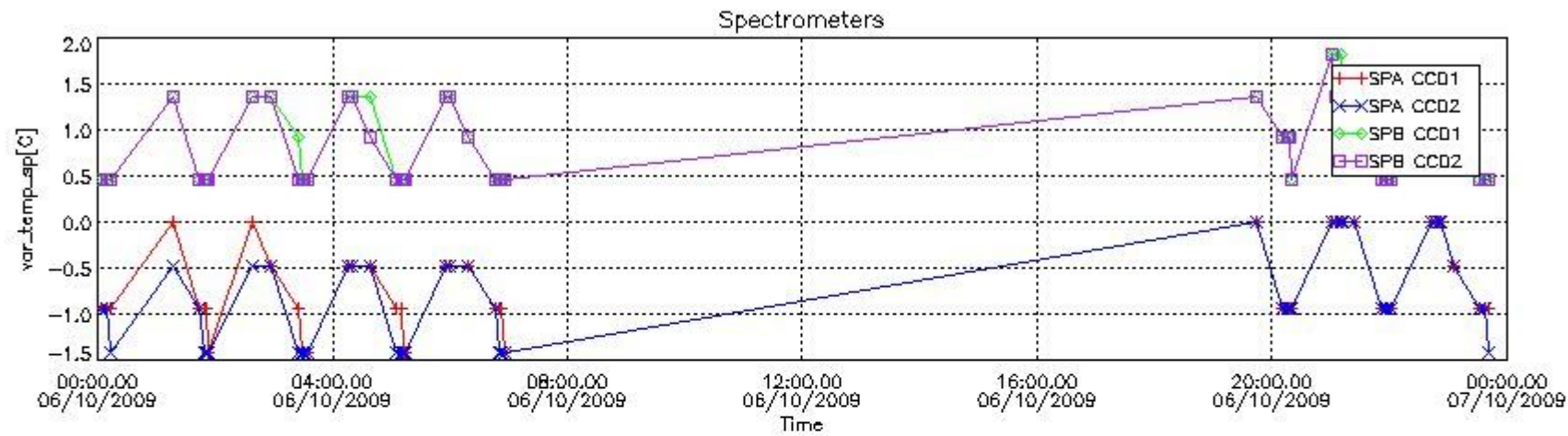
UTC start time	Star name	Star ID	Orbit
06-OCT-2009 00:54:09	15RhoPup	132	39735
06-OCT-2009 00:58:04	31EtaCMa	88	39735
06-OCT-2009 02:34:46	15RhoPup	132	39736
06-OCT-2009 10:07:06	43BetAnd	53	39741
06-OCT-2009 10:12:13	18AlpCas	68	39741
06-OCT-2009 10:13:38	27GamCas	76	39741
06-OCT-2009 10:16:51	23GamPer	160	39741

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_1PNPDE20091006_000329_000000392083_00102_39735_9353.N1	06-OCT-2009 00:03:29	Bright	38.500	53	43Bet And	2.0480	3300.0	77	39735	No
2	GOM_TRA_1PNPDE20091006_000834_000000342083_00102_39735_9354.N1	06-OCT-2009 00:08:34	Bright	33.500	68	18Alp Cas	2.2250	4500.0	67	39735	No
3	GOM_TRA_1PNPDE20091006_000959_000000332083_00102_39735_9355.N1	06-OCT-2009 00:09:59	Bright	33.000	76	27Gam Cas	2.3000	30000.	66	39735	No
4	GOM_TRA_1PNPDE20091006_001315_000000422083_00102_39735_9356.N1	06-OCT-2009 00:13:15	Bright	42.000	160	23Gam Per	2.9300	4700.0	84	39735	No

5	GOM_TRA_1PNPDE20091006_011633_000000392083_00103_39736_9369.N1	06-OCT-2009 01:16:33	Straylight	39.000	157	The1Eri	2.9060	9300.0	78	39736	No
6	GOM_TRA_1PNPDE20091006_014404_000000392083_00103_39736_9370.N1	06-OCT-2009 01:44:04	Bright	38.500	53	43Bet And	2.0480	3300.0	77	39736	No
7	GOM_TRA_1PNPDE20091006_014909_000000342083_00103_39736_9371.N1	06-OCT-2009 01:49:09	Bright	34.000	68	18Alp Cas	2.2250	4500.0	68	39736	No
8	GOM_TRA_1PNPDE20091006_015034_000000342083_00103_39736_9372.N1	06-OCT-2009 01:50:34	Bright	33.500	76	27Gam Cas	2.3000	30000.	67	39736	No
9	GOM_TRA_1PNPDE20091006_015350_000000432083_00103_39736_9373.N1	06-OCT-2009 01:53:50	Bright	42.500	160	23Gam Per	2.9300	4700.0	85	39736	No
10	GOM_TRA_1PNPDE20091006_023836_000000432083_00103_39736_9390.N1	06-OCT-2009 02:38:36	Dark	43.000	88	31Eta CMa	2.4480	20000.	86	39736	No
11	GOM_TRA_1PNPDE20091006_025710_000000382083_00104_39737_9391.N1	06-OCT-2009 02:57:10	Straylight	38.000	157	The1Eri	2.9060	9300.0	76	39737	No
12	GOM_TRA_1PNPDE20091006_032439_000000392083_00104_39737_9392.N1	06-OCT-2009 03:24:39	Bright	38.500	53	43Bet And	2.0480	3300.0	77	39737	No
13	GOM_TRA_1PNPDE20091006_032945_000000342083_00104_39737_9393.N1	06-OCT-2009 03:29:45	Bright	33.500	68	18Alp Cas	2.2250	4500.0	67	39737	No
14	GOM_TRA_1PNPDE20091006_033110_000000332083_00104_39737_9394.N1	06-OCT-2009 03:31:10	Bright	33.000	76	27Gam Cas	2.3000	30000.	66	39737	No
15	GOM_TRA_1PNPDE20091006_033426_000000422083_00104_39737_9395.N1	06-OCT-2009 03:34:26	Bright	42.000	160	23Gam Per	2.9300	4700.0	84	39737	No
16	GOM_TRA_1PNPDE20091006_041517_000000382083_00104_39737_9414.N1	06-OCT-2009 04:15:17	Dark	38.000	132	15Rho Pup	2.8030	6900.0	76	39737	No
17	GOM_TRA_1PNPDE20091006_041913_000000442083_00104_39737_9415.N1	06-OCT-2009 04:19:13	Dark	43.500	88	31Eta CMa	2.4480	20000.	87	39737	No
18	GOM_TRA_1PNPDE20091006_043747_000000392083_00105_39738_9416.N1	06-OCT-2009 04:37:47	Straylight	38.500	157	The1Eri	2.9060	9300.0	77	39738	No
19	GOM_TRA_1PNPDE20091006_050515_000000392083_00105_39738_9417.N1	06-OCT-2009 05:05:15	Bright	38.500	53	43Bet And	2.0480	3300.0	77	39738	No
20	GOM_TRA_1PNPDE20091006_051021_000000342083_00105_39738_9418.N1	06-OCT-2009 05:10:21	Bright	33.500	68	18Alp Cas	2.2250	4500.0	67	39738	No
21	GOM_TRA_1PNPDE20091006_051146_000000332083_00105_39738_9419.N1	06-OCT-2009 05:11:46	Bright	33.000	76	27Gam Cas	2.3000	30000.	66	39738	No
22	GOM_TRA_1PNPDE20091006_051501_000000422083_00105_39738_9420.N1	06-OCT-2009 05:15:01	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	39738	No
23	GOM_TRA_1PNPDE20091006_055554_000000372083_00105_39738_9440.N1	06-OCT-2009 05:55:54	Dark	37.000	132	15Rho Pup	2.8030	6900.0	74	39738	No
24	GOM_TRA_1PNPDE20091006_055950_000000432083_00105_39738_9441.N1	06-OCT-2009 05:59:50	Dark	42.500	88	31Eta CMa	2.4480	20000.	85	39738	No
25	GOM_TRA_1PNPDE20091006_061823_000000382083_00106_39739_9442.N1	06-OCT-2009 06:18:23	Straylight	38.000	157	The1Eri	2.9060	9300.0	76	39739	No
26	GOM_TRA_1PNPDE20091006_064550_000000382083_00106_39739_9443.N1	06-OCT-2009 06:45:50	Bright	38.000	53	43Bet And	2.0480	3300.0	76	39739	No
27	GOM_TRA_1PNPDE20091006_065056_000000342083_00106_39739_9444.N1	06-OCT-2009 06:50:56	Bright	33.500	68	18Alp Cas	2.2250	4500.0	67	39739	No
28	GOM_TRA_1PNPDE20091006_065221_000000332083_00106_39739_9445.N1	06-OCT-2009 06:52:21	Bright	33.000	76	27Gam Cas	2.3000	30000.	66	39739	No
29	GOM_TRA_1PNPDE20091006_065536_000000422083_00106_39739_9446.N1	06-OCT-2009 06:55:36	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	39739	No
30	GOM_TRA_1PNPDE20091006_194316_000000372083_00114_39747_9525.N1	06-OCT-2009 19:43:16	Straylight	37.000	157	The1Eri	2.9060	9300.0	74	39747	Yes
31	GOM_TRA_1PNPDE20091006_201033_000000382083_00114_39747_9526.N1	06-OCT-2009 20:10:33	Bright	37.500	53	43Bet And	2.0480	3300.0	75	39747	No
32	GOM_TRA_1PNPDE20091006_201541_000000332083_00114_39747_9527.N1	06-OCT-2009 20:15:41	Bright	33.000	68	18Alp Cas	2.2250	4500.0	66	39747	No
33	GOM_TRA_1PNPDE20091006_201706_000000332083_00114_39747_9528.N1	06-OCT-2009 20:17:06	Bright	32.500	76	27Gam Cas	2.3000	30000.	65	39747	No
34	GOM_TRA_1PNPDE20091006_202016_000000412083_00114_39747_9529.N1	06-OCT-2009 20:20:16	Bright	41.000	160	23Gam Per	2.9300	4700.0	82	39747	No
35	GOM_TRA_1PNPDE20091006_210126_000000382083_00114_39747_9546.N1	06-OCT-2009 21:01:26	Dark	37.500	132	15Rho Pup	2.8030	6900.0	75	39747	No
36	GOM_TRA_1PNPDE20091006_210525_000000432083_00114_39747_9547.N1	06-OCT-2009 21:05:25	Dark	42.500	88	31Eta CMa	2.4480	20000.	85	39747	No
37	GOM_TRA_1PNPDE20091006_211011_000000362083_00115_39748_9548.N1	06-OCT-2009 21:10:11	Dark	35.500	161	Tau Pup	2.9310	4500.0	71	39748	No
38	GOM_TRA_1PNPDE20091006_211136_000000362083_00115_39748_9549.N1	06-OCT-2009 21:11:36	Dark	35.500	2	Alp Car	-0.73600	7000.0	71	39748	No
39	GOM_TRA_1PNPDE20091006_212353_000000382083_00115_39748_9550.N1	06-OCT-2009 21:23:53	Straylight	37.500	157	The1Eri	2.9060	9300.0	75	39748	No
40	GOM_TRA_1PNPDE20091006_215109_000000392083_00115_39748_9551.N1	06-OCT-2009 21:51:09	Bright	38.500	53	43Bet And	2.0480	3300.0	77	39748	No
41	GOM_TRA_1PNPDE20091006_215617_000000342083_00115_39748_9552.N1	06-OCT-2009 21:56:17	Bright	33.500	68	18Alp Cas	2.2250	4500.0	67	39748	No
42	GOM_TRA_1PNPDE20091006_215742_000000342083_00115_39748_9553.N1	06-OCT-2009 21:57:42	Bright	33.500	76	27Gam Cas	2.3000	30000.	67	39748	No
43	GOM_TRA_1PNPDE20091006_220051_000000422083_00115_39748_9554.N1	06-OCT-2009 22:00:51	Bright	42.000	160	23Gam Per	2.9300	4700.0	84	39748	No
44	GOM_TRA_1PNPDE20091006_224203_000000392083_00115_39748_9569.N1	06-OCT-2009 22:42:03	Dark	38.500	132	15Rho Pup	2.8030	6900.0	77	39748	No
45	GOM_TRA_1PNPDE20091006_224602_000000442083_00115_39748_9570.N1	06-OCT-2009 22:46:02	Dark	44.000	88	31Eta CMa	2.4480	20000.	88	39748	No
46	GOM_TRA_1PNPDE20091006_225048_000000372083_00116_39749_9571.N1	06-OCT-2009 22:50:48	Dark	36.500	161	Tau Pup	2.9310	4500.0	73	39749	No
47	GOM_TRA_1PNPDE20091006_225212_000000372083_00116_39749_9572.N1	06-OCT-2009 22:52:12	Dark	36.500	2	Alp Car	-0.73600	7000.0	73	39749	No
48	GOM_TRA_1PNPDE20091006_230429_000000382083_00116_39749_9573.N1	06-OCT-2009 23:04:29	Straylight	38.000	157	The1Eri	2.9060	9300.0	76	39749	No
49	GOM_TRA_1PNPDE20091006_233144_000000392083_00116_39749_9574.N1	06-OCT-2009 23:31:44	Bright	38.500	53	43Bet And	2.0480	3300.0	77	39749	No
50	GOM_TRA_1PNPDE20091006_233652_000000342083_00116_39749_9575.N1	06-OCT-2009 23:36:52	Bright	33.500	68	18Alp Cas	2.2250	4500.0	67	39749	No
51	GOM_TRA_1PNPDE20091006_233818_000000332083_00116_39749_9576.N1	06-OCT-2009 23:38:18	Bright	33.000	76	27Gam Cas	2.3000	30000.	66	39749	No
52	GOM_TRA_1PNPDE20091006_234126_000000432083_00116_39749_9577.N1	06-OCT-2009 23:41:26	Bright	42.500	160	23Gam Per	2.9300	4700.0	85	39749	No

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



4. Overview of dark signal processing per product

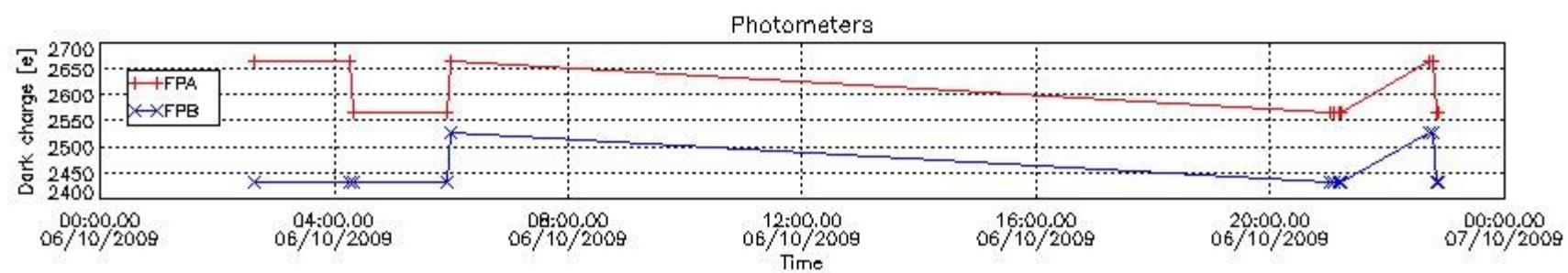
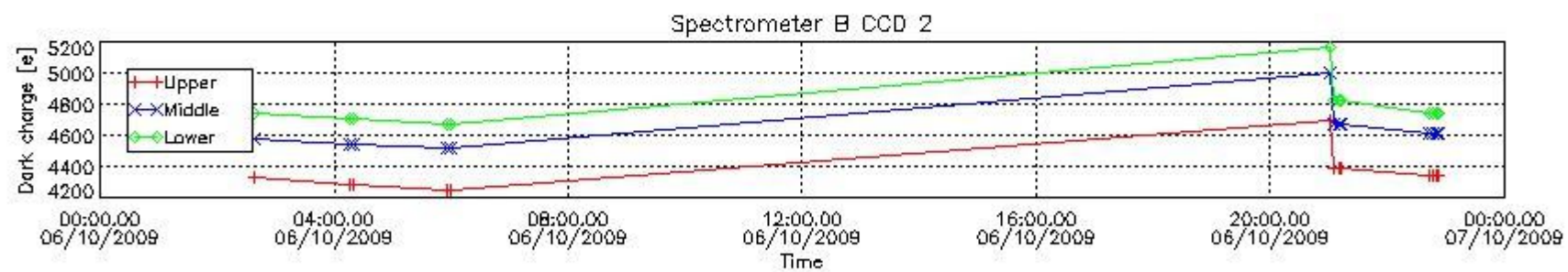
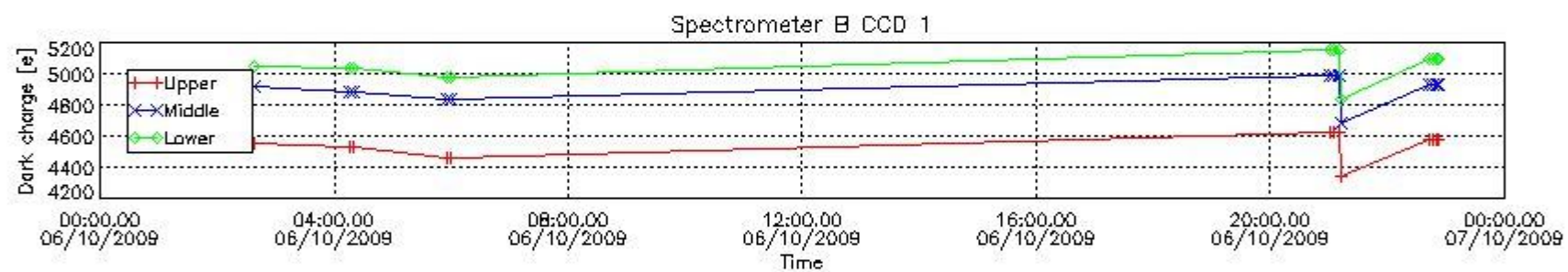
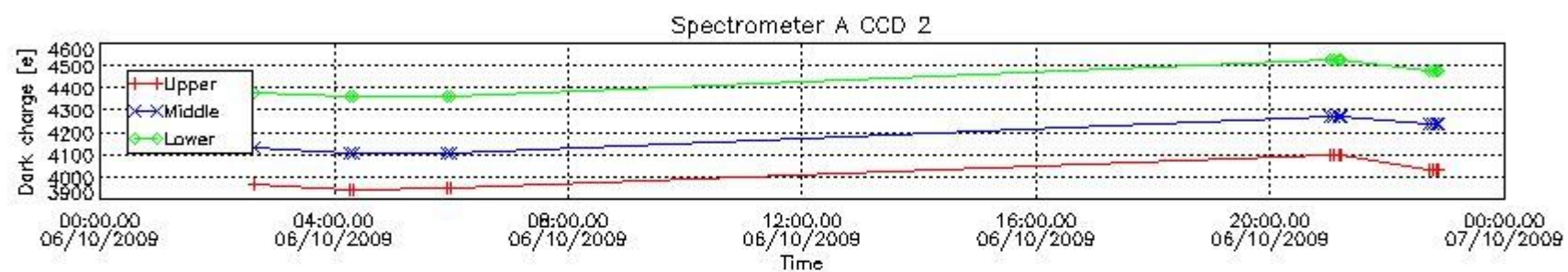
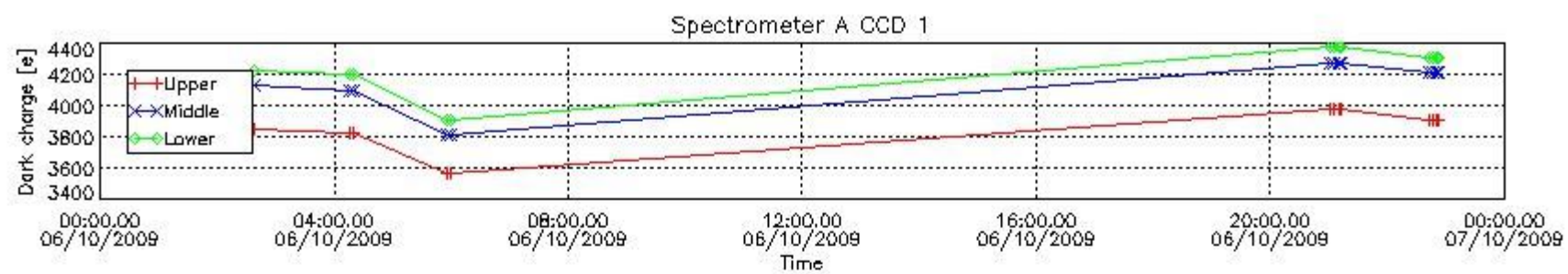
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20091006_194316_000000372083_00114_39747_9525.N1	DC map with no T dep.
GOM_TRA_1PNPDE20091006_201033_000000382083_00114_39747_9526.N1	DC map used
GOM_TRA_1PNPDE20091006_201541_000000332083_00114_39747_9527.N1	DC map used
GOM_TRA_1PNPDE20091006_201706_000000332083_00114_39747_9528.N1	DC map used
GOM_TRA_1PNPDE20091006_202016_000000412083_00114_39747_9529.N1	DC map used

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



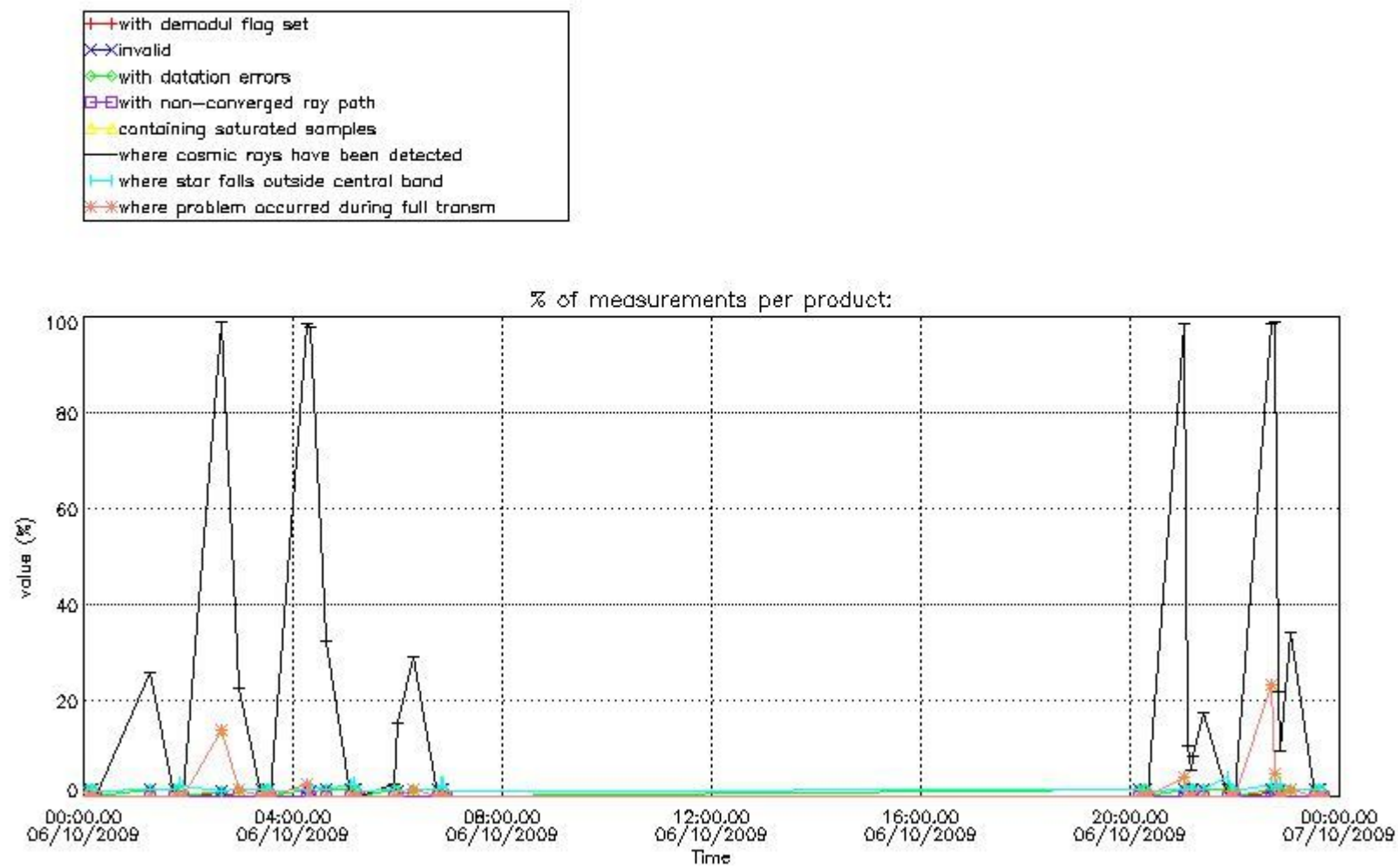
5. Demodulation flag and quality information monitoring

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.

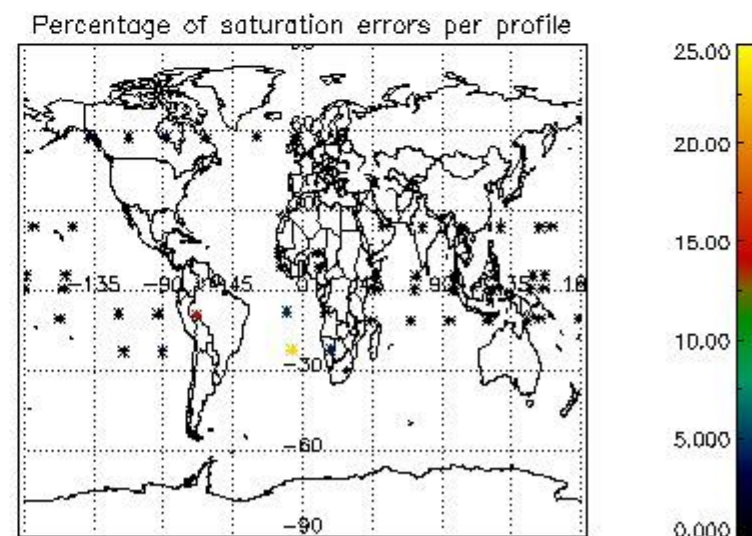
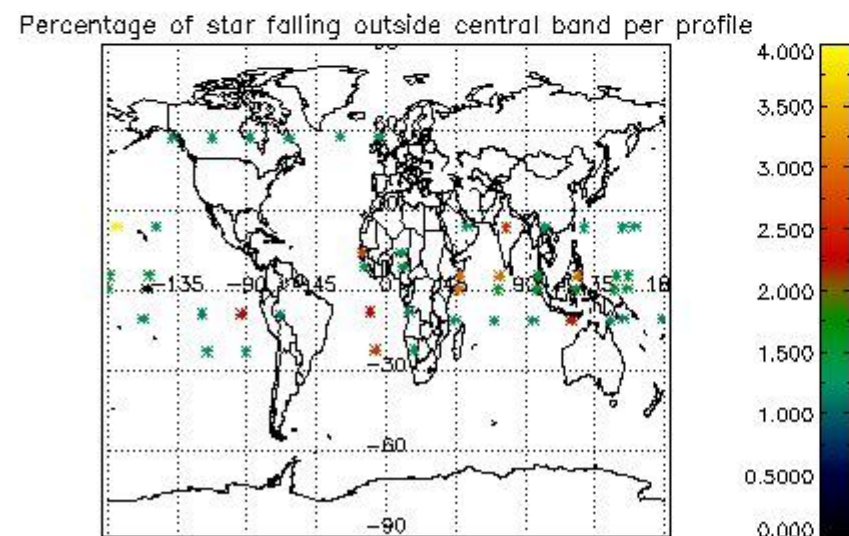
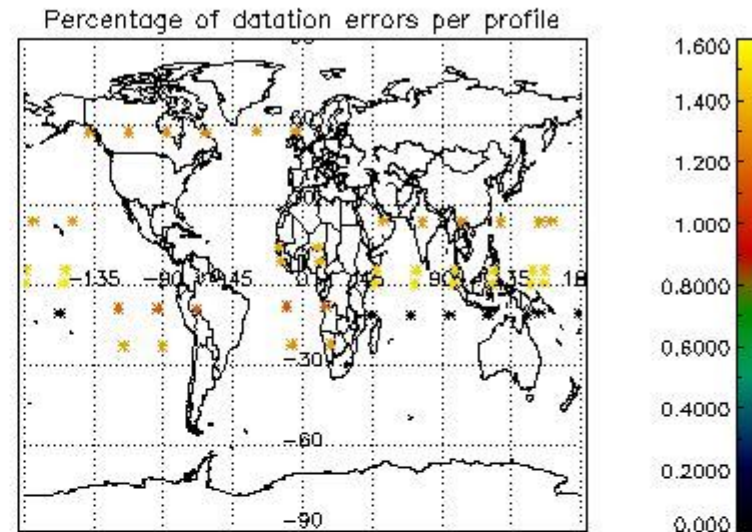
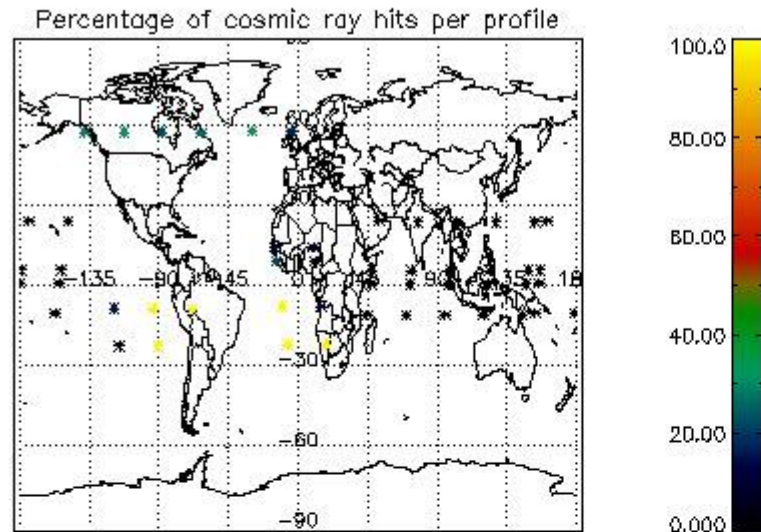
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	29.4118 %
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)



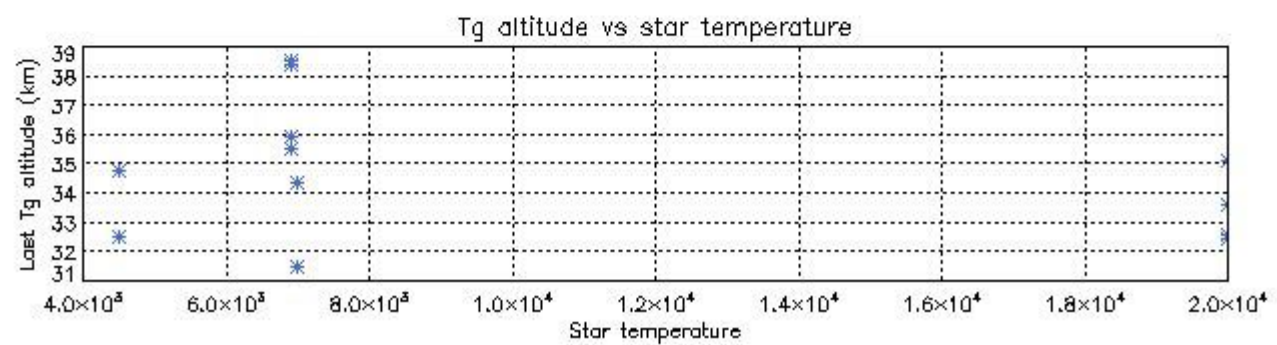
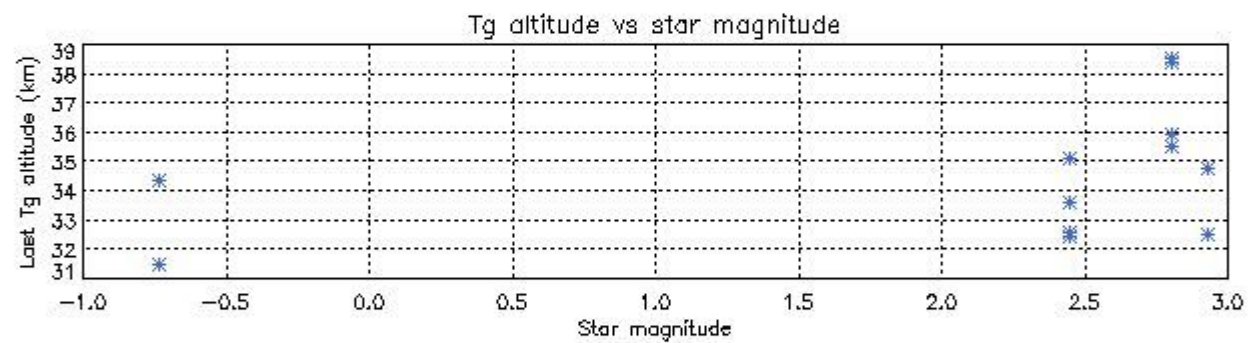
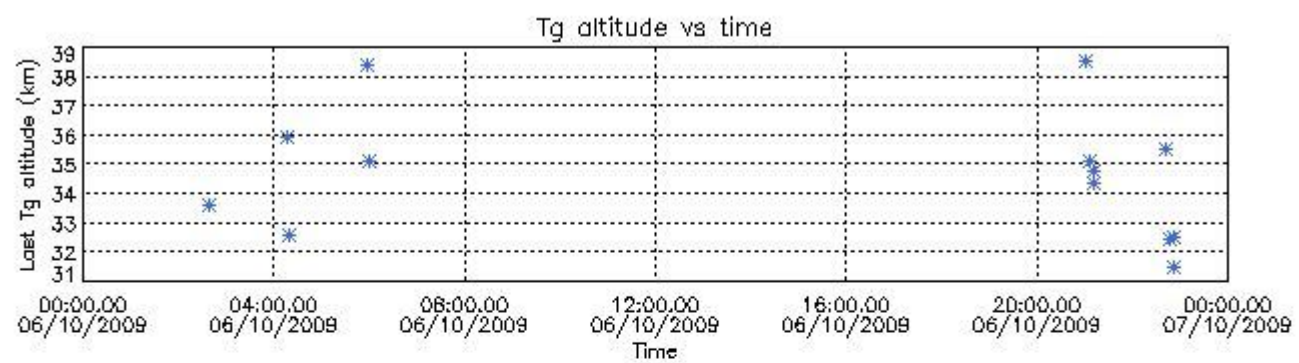
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	34.632	35.482	NaN
St. deviation:	2.1903	2.3997	NaN
Maximum:	38.555	40.338	NaN
Minimum:	31.476	31.384	NaN
Number of data:	13.000	32.000	NaN

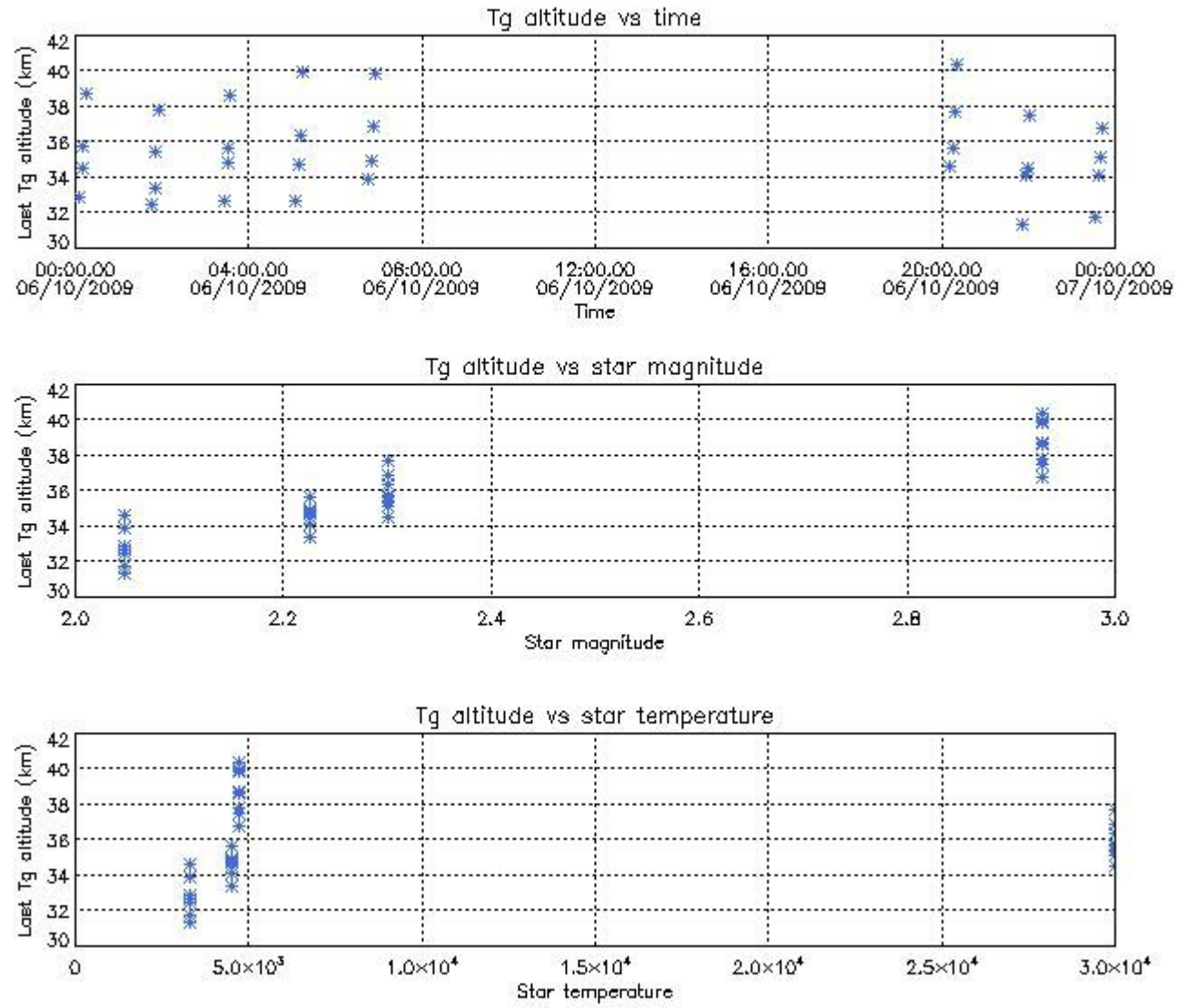
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

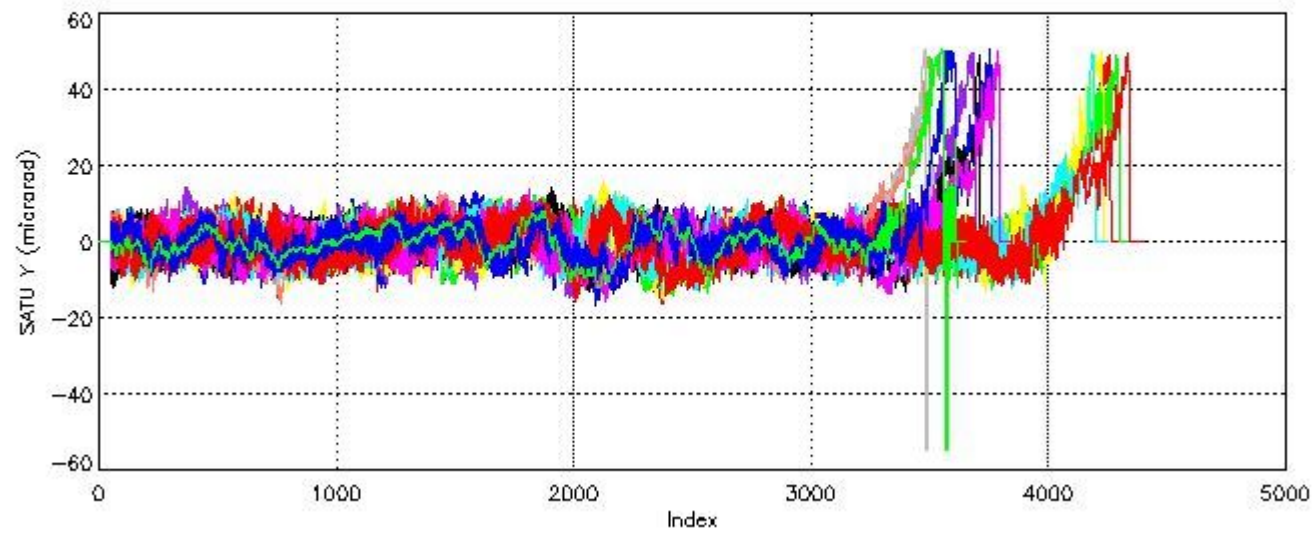
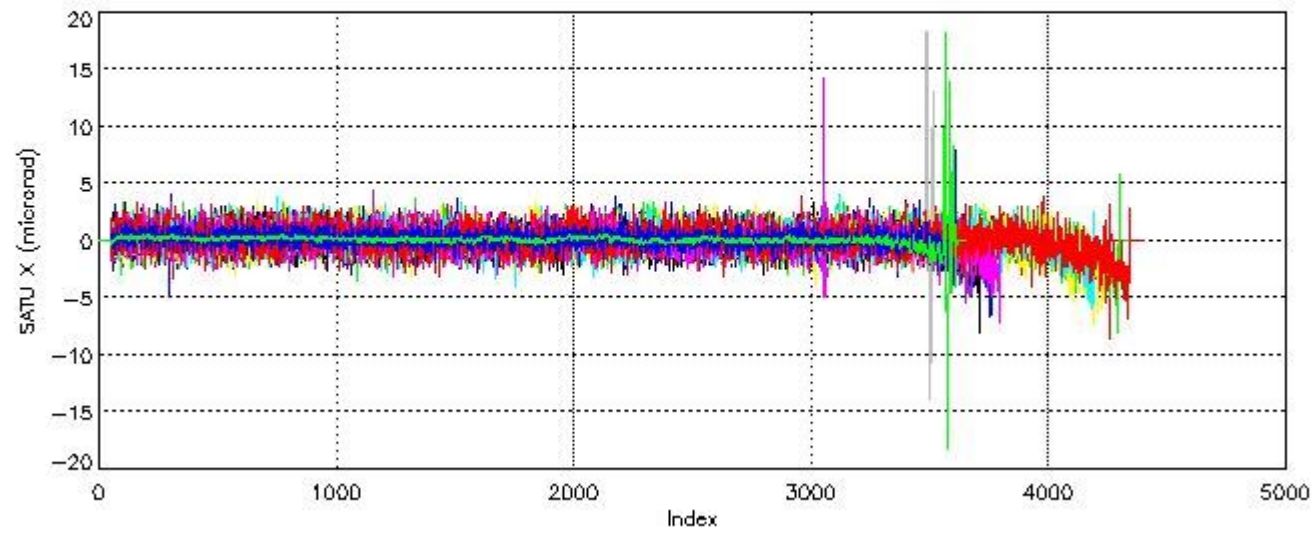


7. Star Acquisition and Tracking Unit (SATU)

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:	0.23961	-0.69515	0.22666	-0.19454
St. deviation:	0.78841	4.1554	0.68418	4.0867
Maximum:	4.1000	14.300	4.3000	15.100
Minimum:	-4.9000	-16.300	-3.9000	-18.700

Number of data:	14750.	14750.	34000.	34000.
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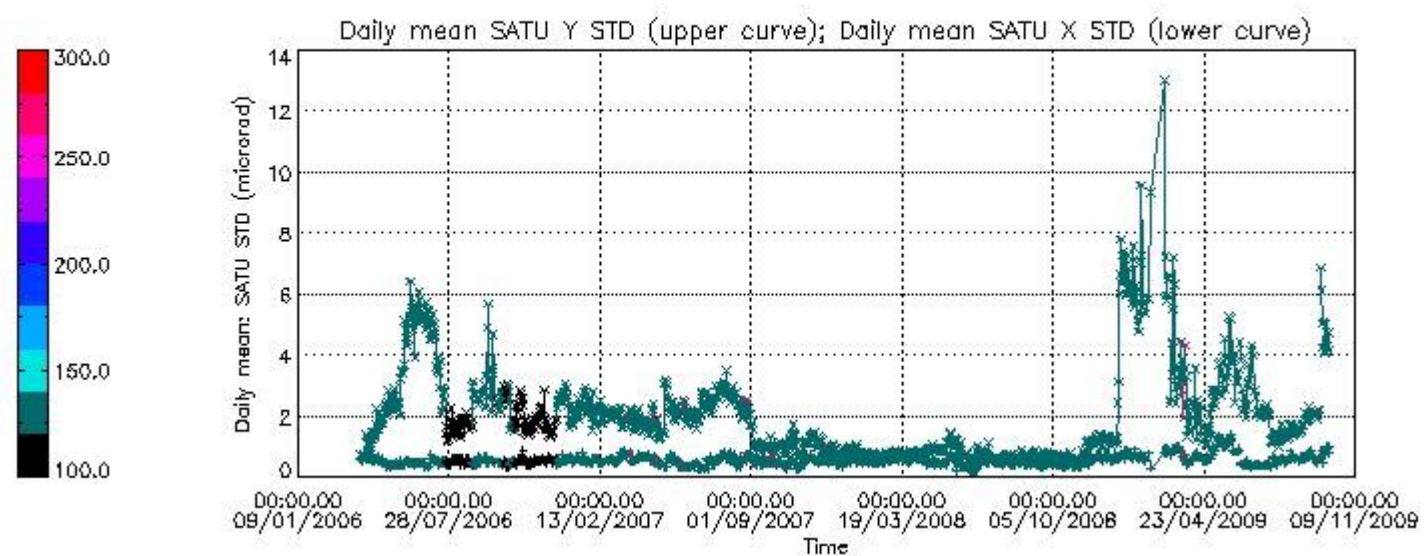
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

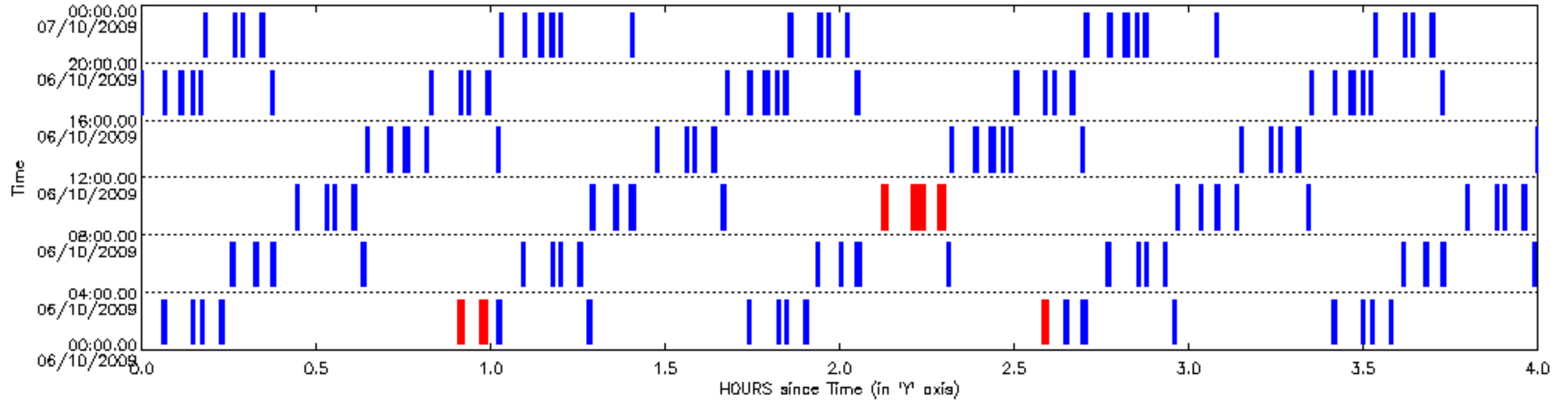
Lower curve: STD of SATU X axis

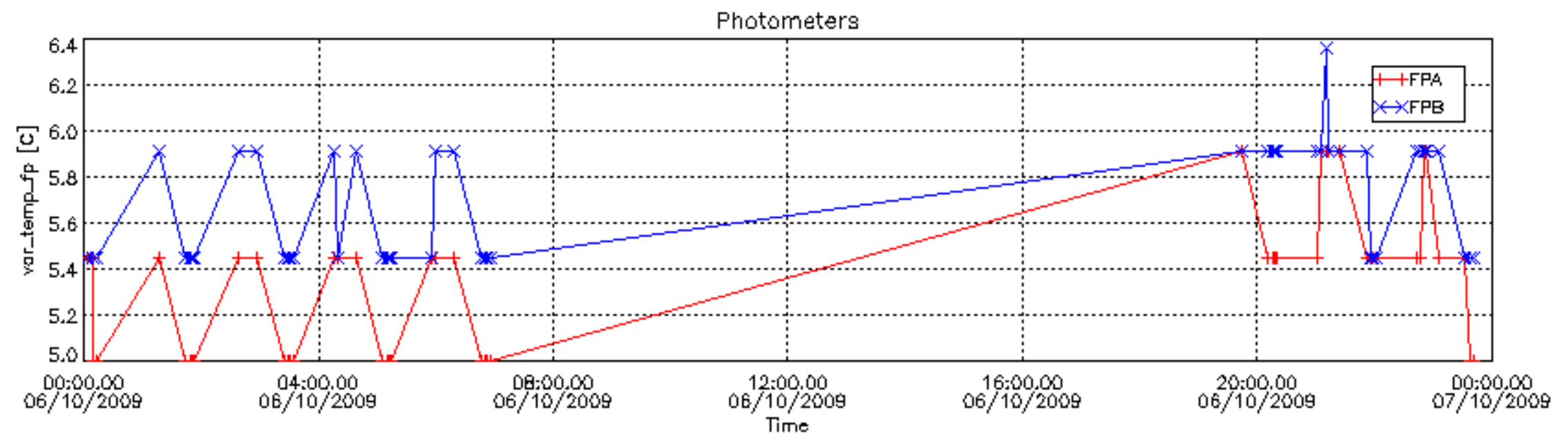
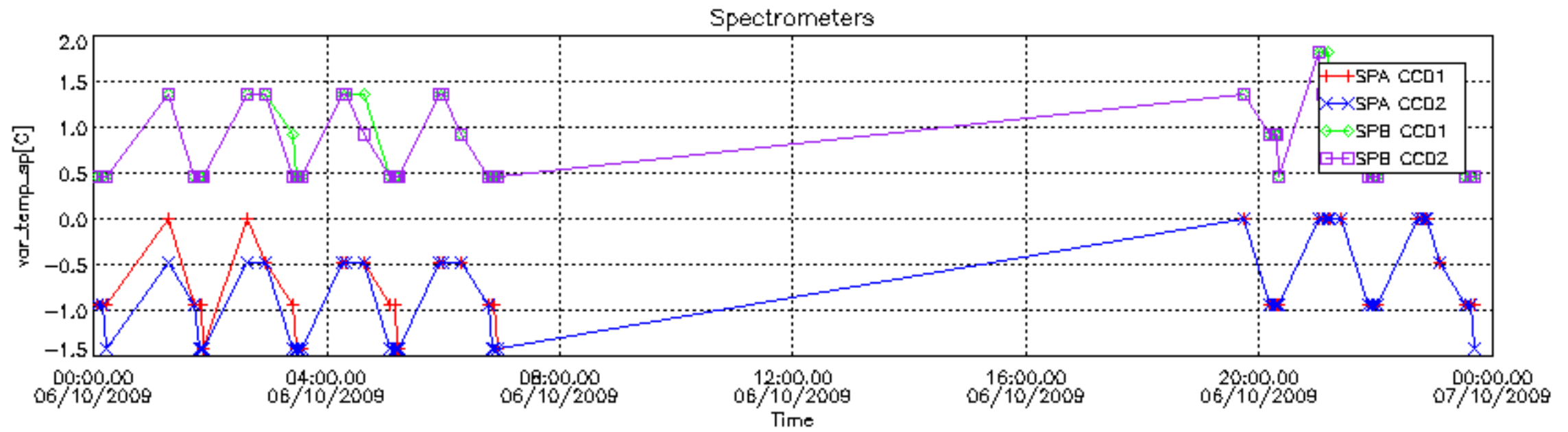


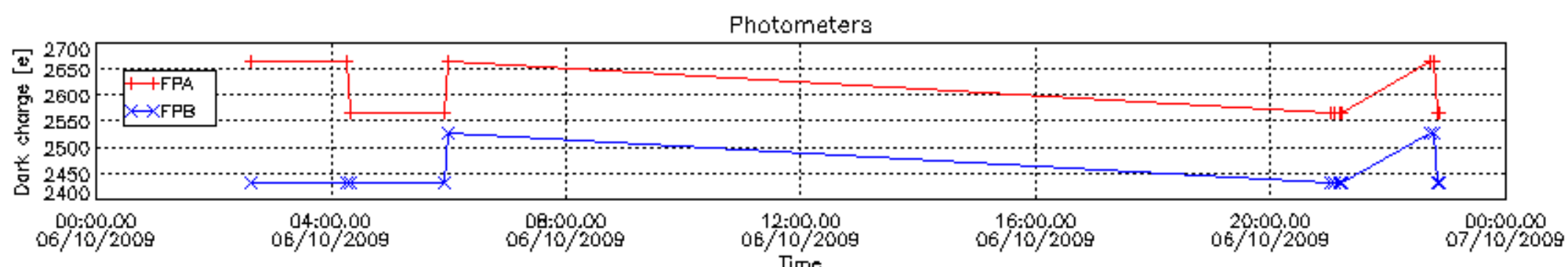
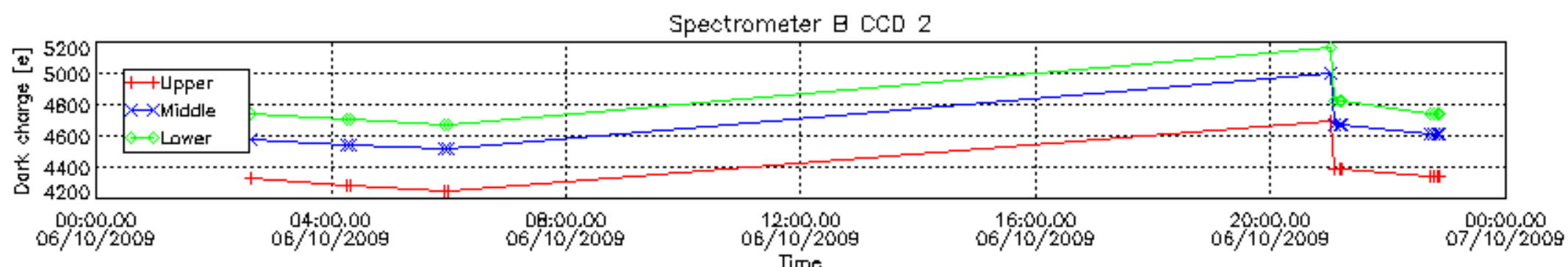
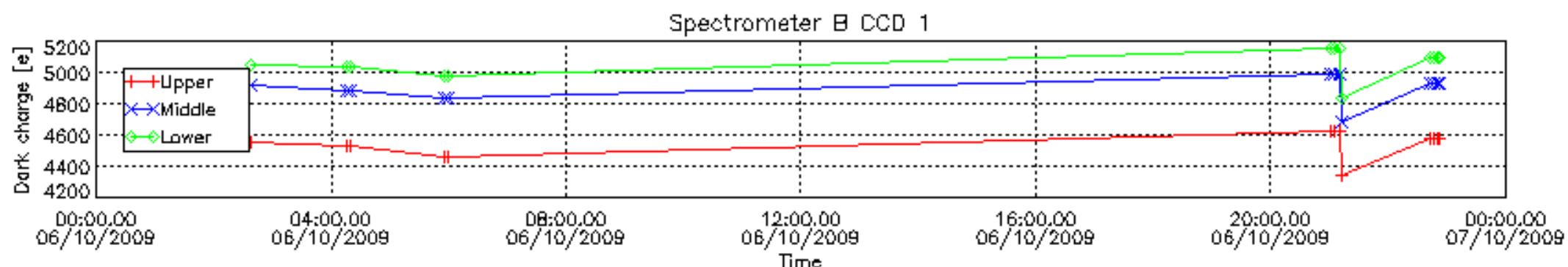
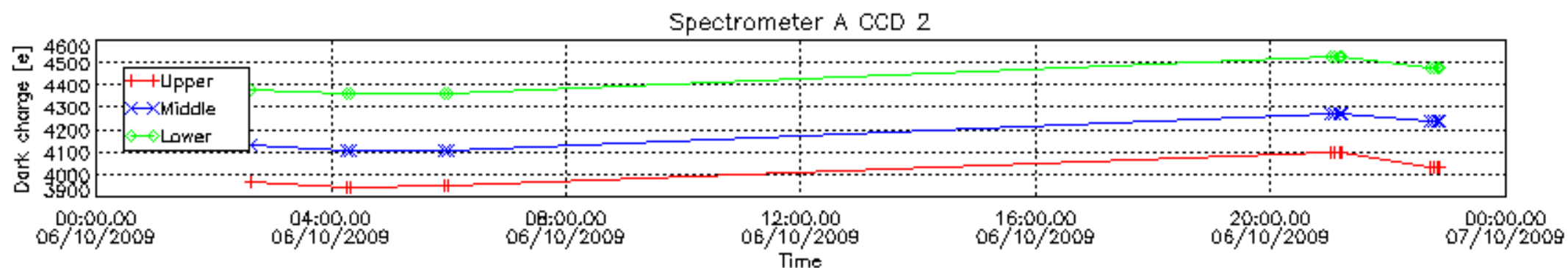
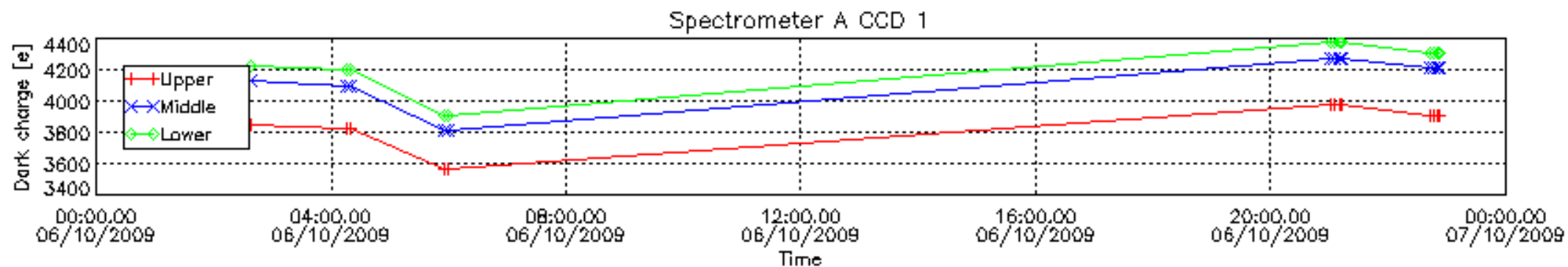
8. Auxiliary Data Files used for the production reported in section 2.4

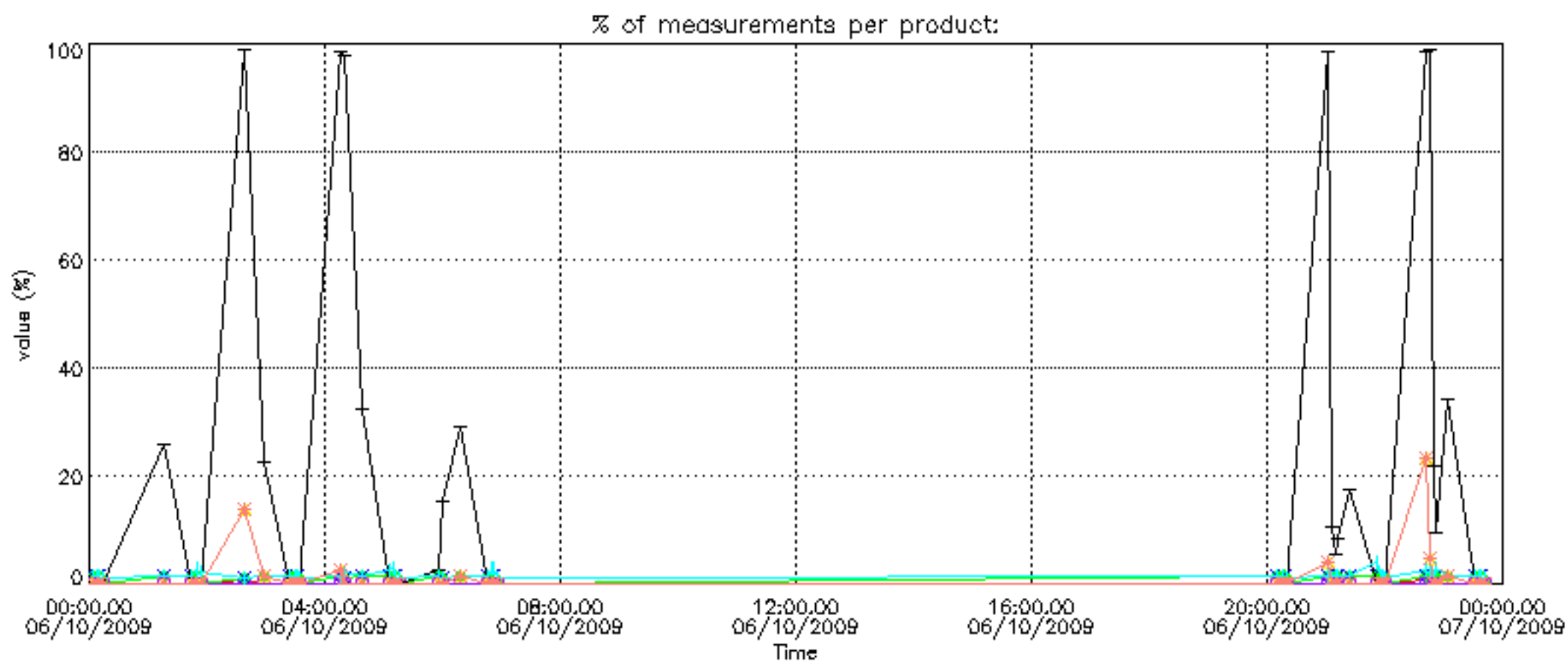
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	06-OCT-2009 00:03:29
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090930_074316_20090929_000000_20100101_000000	1	06-OCT-2009 00:03:29
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	06-OCT-2009 00:03:29
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	06-OCT-2009 00:03:29
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	06-OCT-2009 00:03:29
ECMWF_FILE	AUX_ECF_AXNECM20091005_064117_20091005_210000_20091006_090000	1	06-OCT-2009 00:03:29
ECMWF_FILE	AUX_ECF_AXNECM20091005_184110_20091006_030000_20091006_150000	16	06-OCT-2009 04:15:17
ECMWF_FILE	AUX_ECA_AXNECM20091006_062112_20091005_210000_20091006_090000	23	06-OCT-2009 05:55:54
ECMWF_FILE	AUX_ECA_AXNECM20091006_182304_20091006_090000_20091006_210000	30	06-OCT-2009 19:43:16
ECMWF_FILE	AUX_ECF_AXNECM20091006_064111_20091006_210000_20091007_090000	35	06-OCT-2009 21:01:26
OPTIONAL_ECMWF_FILE	MISSING	1	06-OCT-2009 00:03:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091005_230425_000057382083_00101_39734_8907.N1	1	06-OCT-2009 00:03:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091006_004522_000054192083_00102_39735_8908.N1	5	06-OCT-2009 01:16:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091006_022100_000044632083_00103_39736_8909.N1	10	06-OCT-2009 02:38:36
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091006_012111_20091005_195841_20091015_212455	16	06-OCT-2009 04:15:17
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091006_194223_000035072083_00114_39747_8912.N1	30	06-OCT-2009 19:43:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091006_204608_000060572083_00114_39747_8913.N1	35	06-OCT-2009 21:01:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091006_223224_000057382083_00115_39748_8914.N1	44	06-OCT-2009 22:42:03

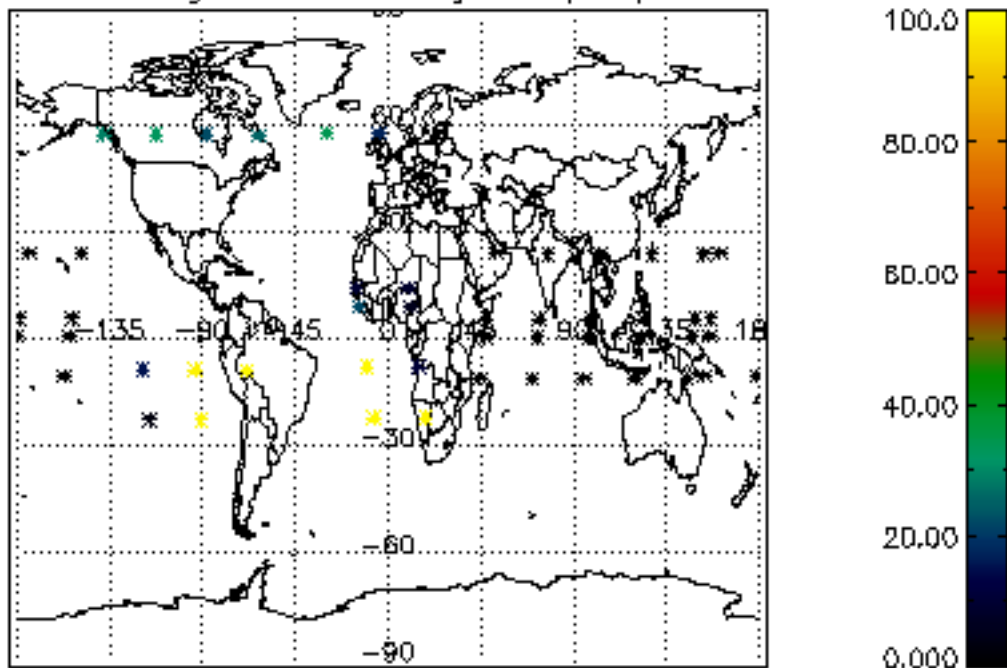




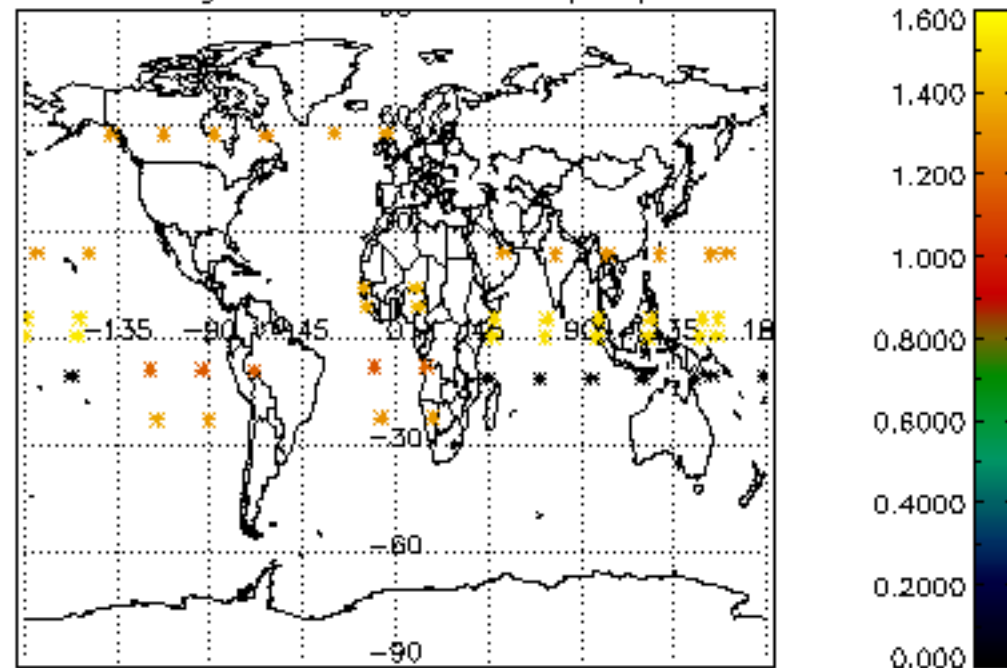




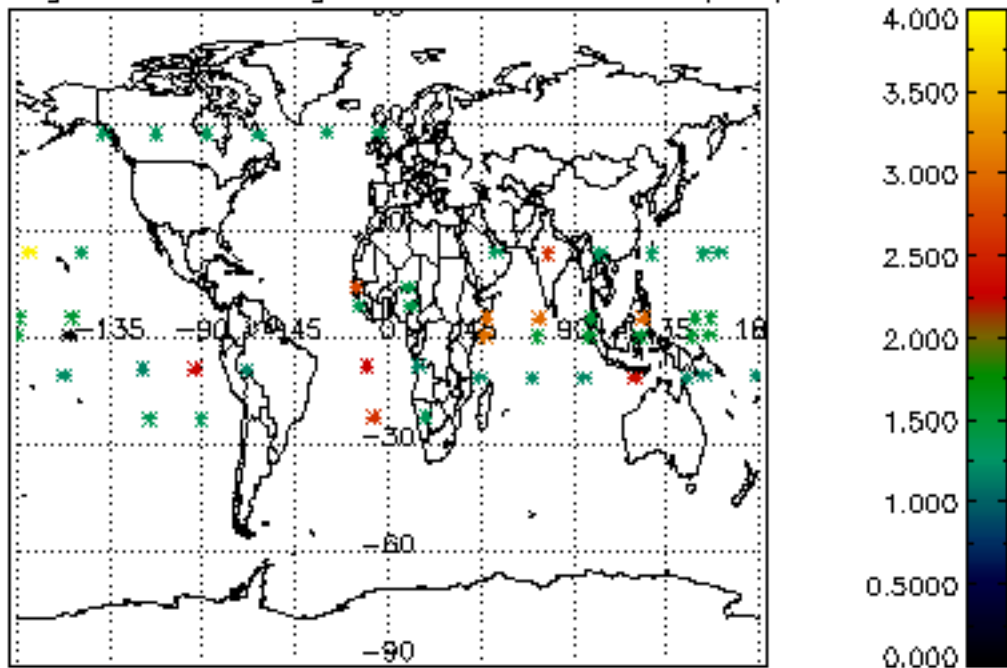
Percentage of cosmic ray hits per profile



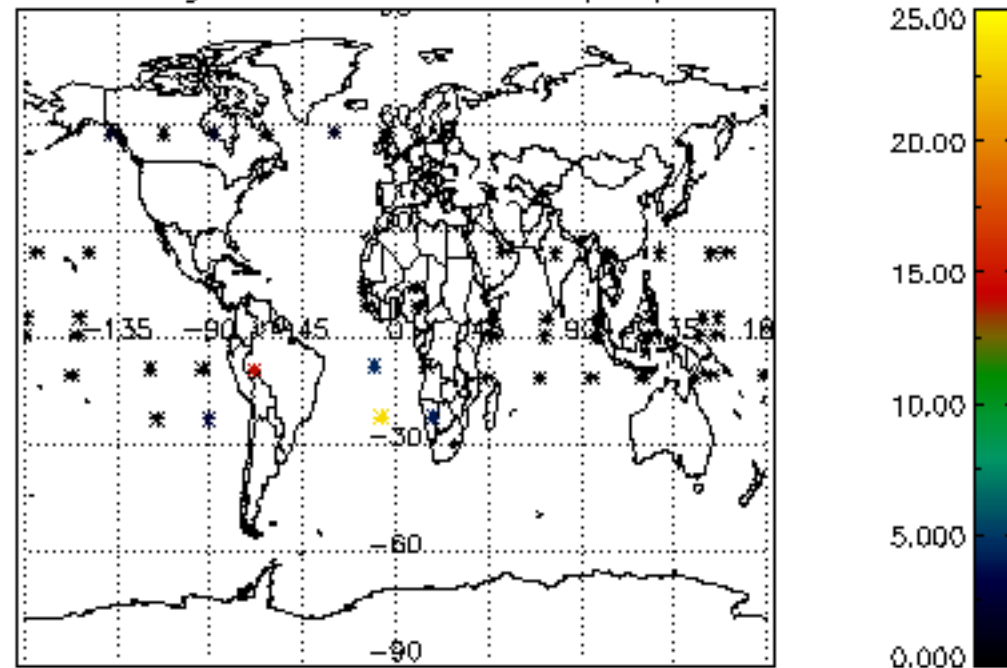
Percentage of datation errors per profile



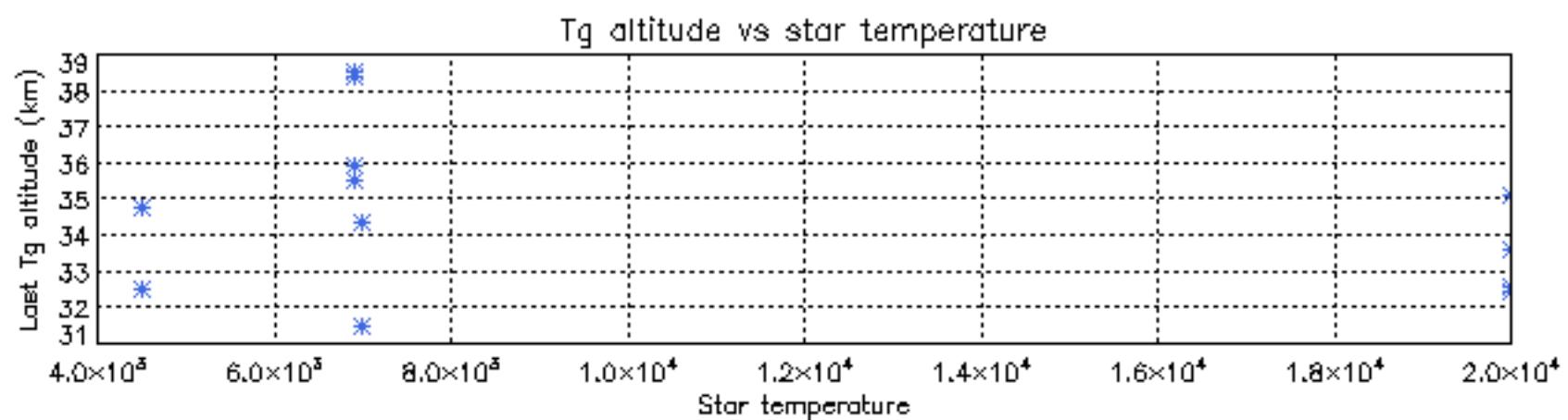
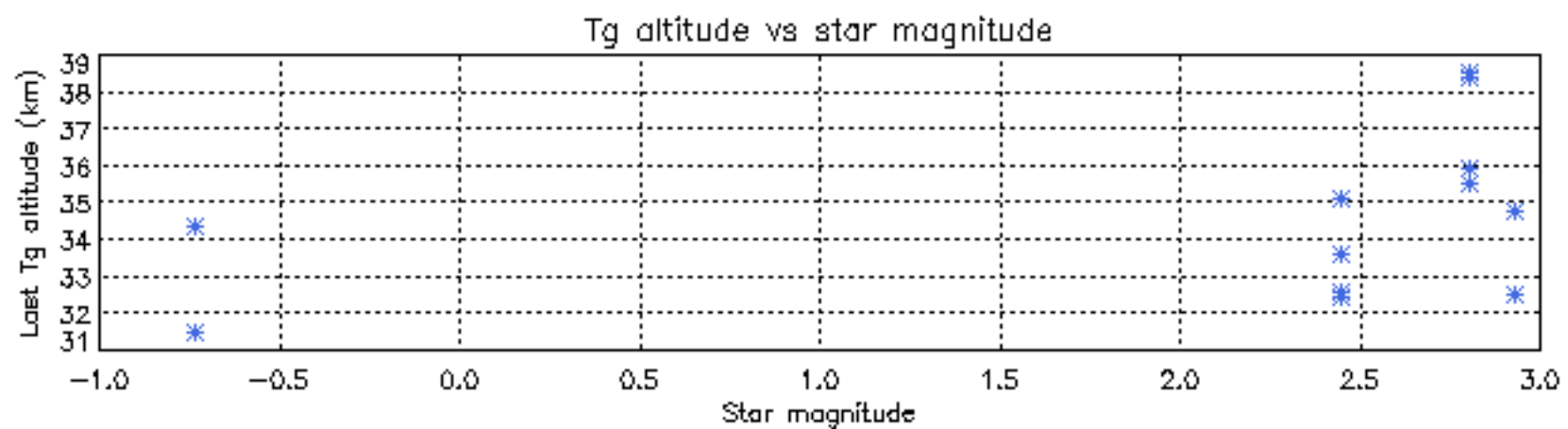
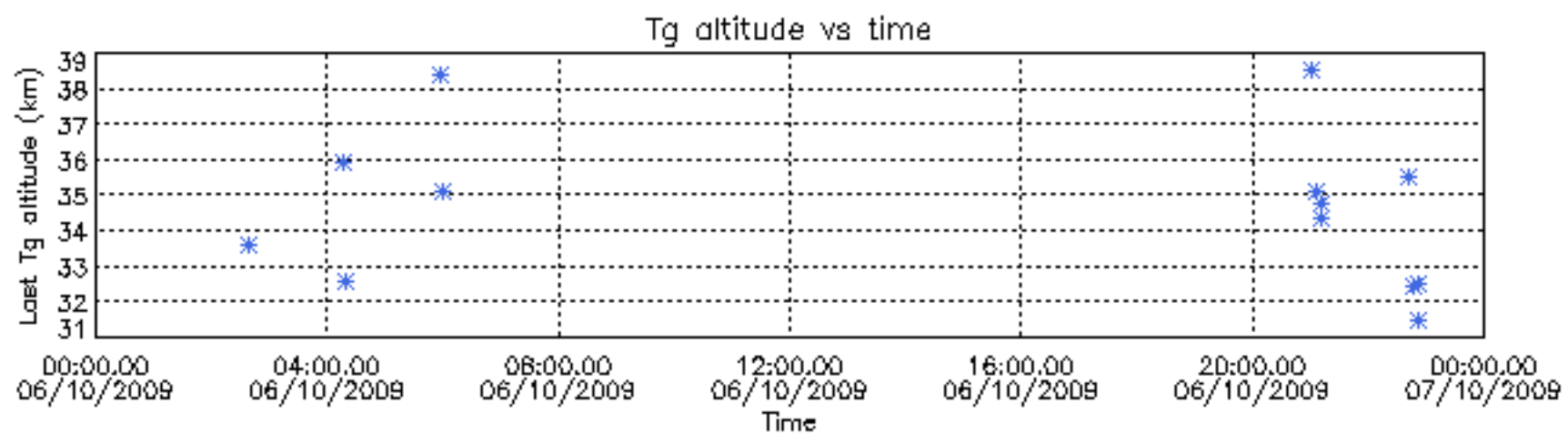
Percentage of star falling outside central band per profile



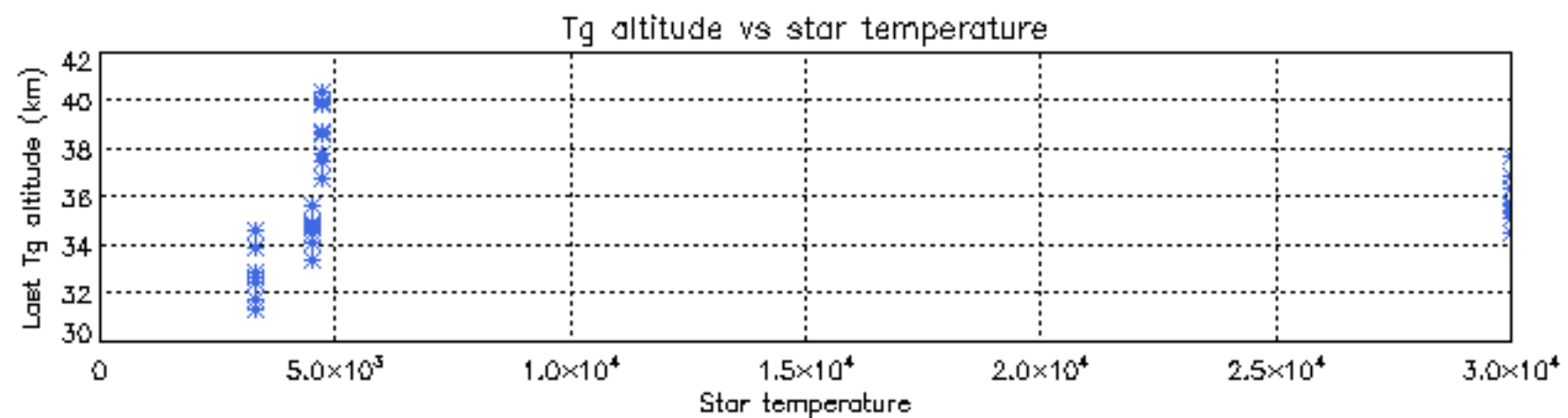
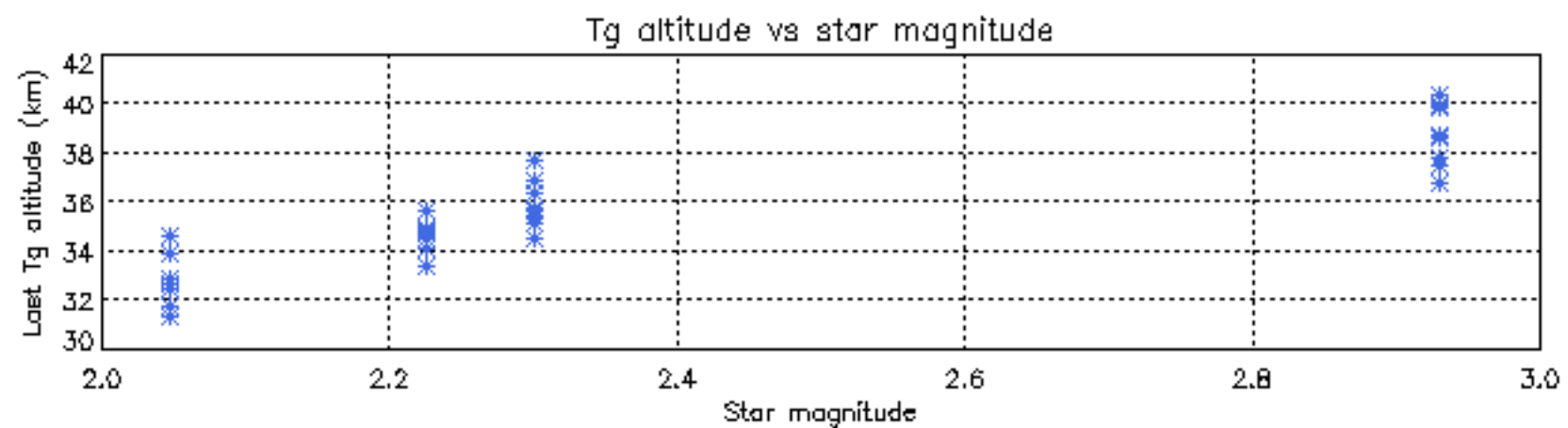
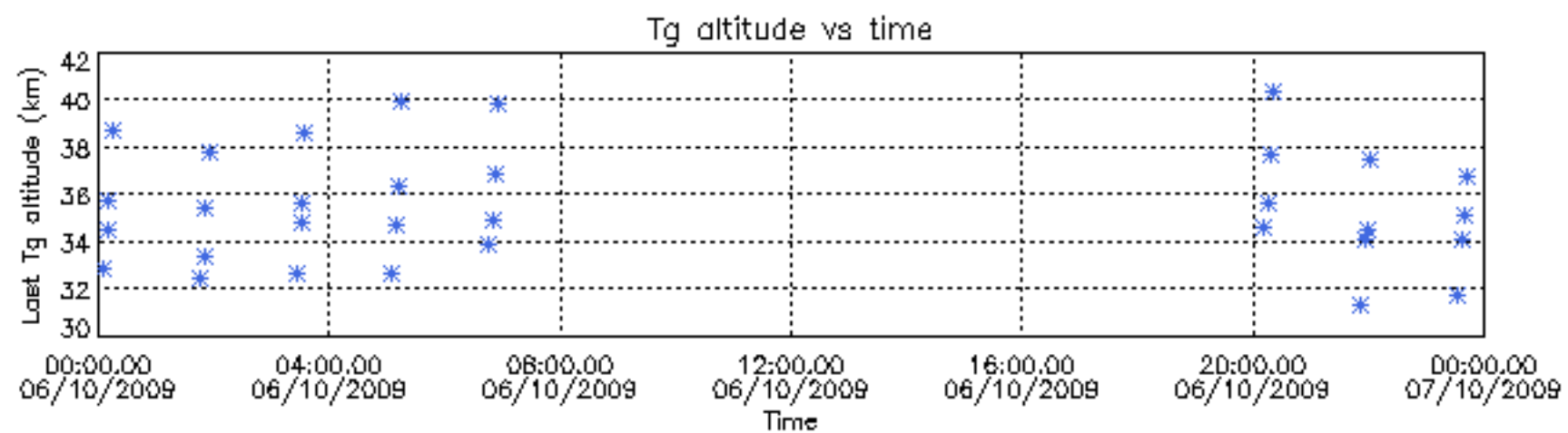
Percentage of saturation errors per profile

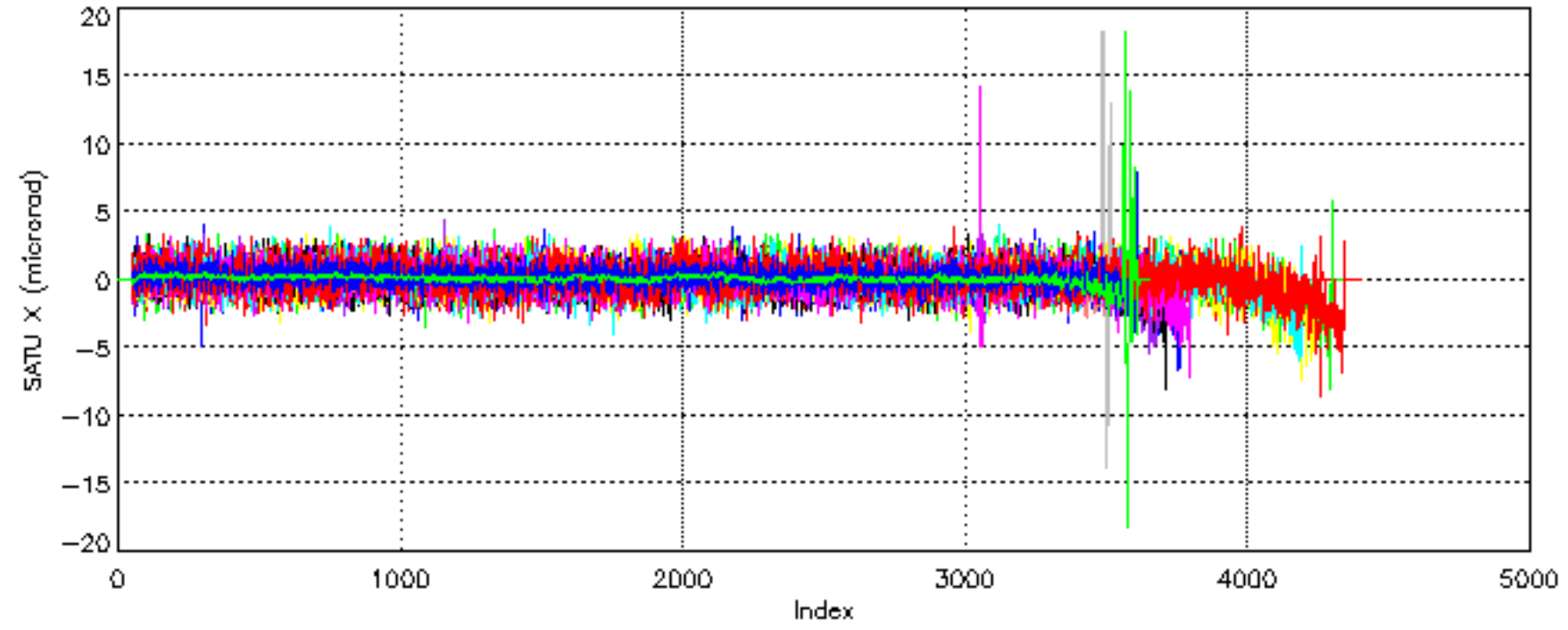


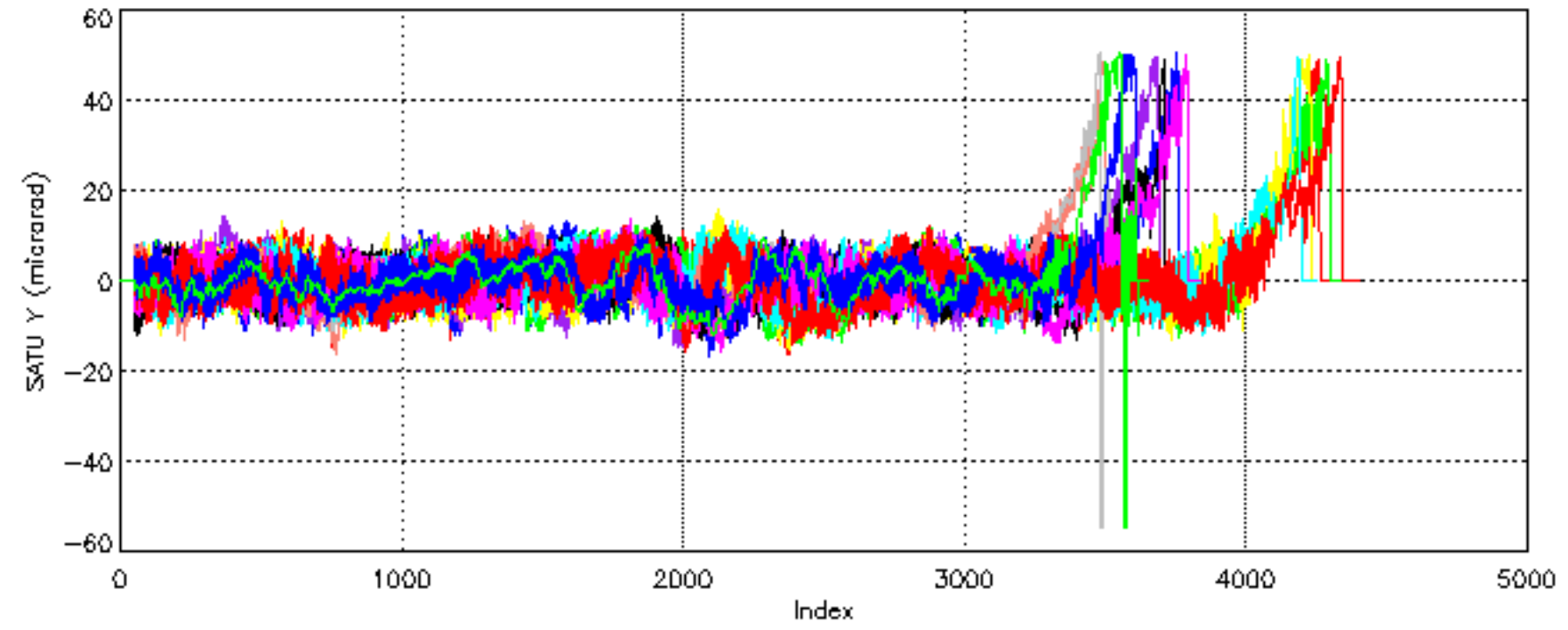
Tangent altitude at which the star is lost

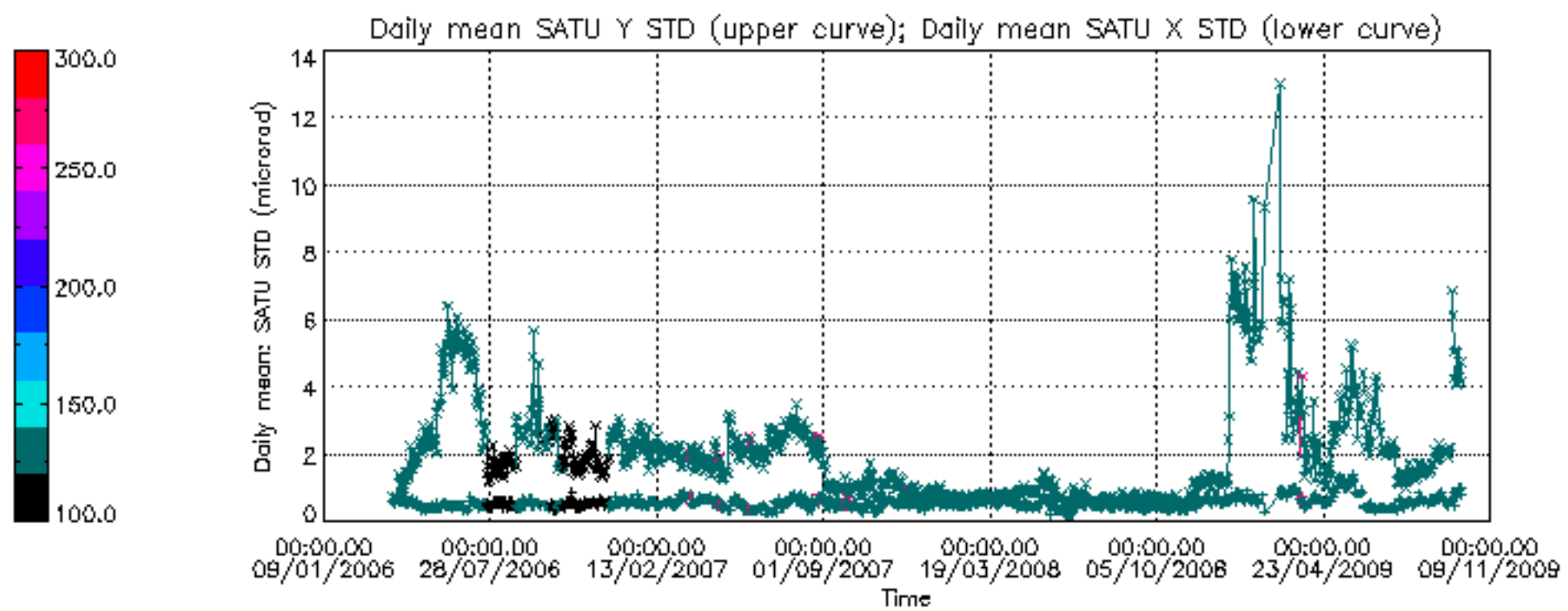


Tangent altitude at which the star is lost









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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
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4; 98.5; 01-OCT-2009 01:59:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39665
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5; 100.8; 01-OCT-2009 05:20:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39667
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11; 2944.1; 01-OCT-2009 06:08:14; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;39667
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4; 113.2; 01-OCT-2009 22:07:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39677
5; 325.1; 01-OCT-2009 22:10:34; Dark ; 60.5; 108; Alp Col ; 2.65; 15200;occ; 121; 0;39677
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7; 4603.6; 01-OCT-2009 13:18:17; Bright; 37.0; 17; 78Bet Gem ; 1.16; 4500;occ; 74; 0;39671
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3; 2591.6; 22-OCT-2009 20:07:24; Bright; 38.0; 173; 4Bet Tri ; 3.00; 8900;occ; 76; 0;39976
4; 2709.5; 22-OCT-2009 20:09:22; Bright; 37.0; 73; 57Gam1And ; 2.26; 13100;occ; 74; 0;39976
5; 2844.0; 22-OCT-2009 20:11:36; Bright; 44.5; 79; 26Bet Per ; 2.31; 13100;occ; 89; 0;39976
6; 3010.3; 22-OCT-2009 20:14:23; Bright; 39.0; 160; 23Gam Per ; 2.93; 4700;occ; 78; 0;39976
7; 4662.2; 22-OCT-2009 20:41:55; Bright; 32.0; 166; 17Eps Leo ; 2.98; 6000;occ; 64; 0;39976
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2; 2569.4; 26-OCT-2009 04:35:46; Bright; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;40024
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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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4; 6309.4; 26-OCT-2009 12:20:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40028
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4; 6163.3; 26-OCT-2009 13:58:40; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;40029
5; 6310.4; 26-OCT-2009 14:01:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40029
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2; 2686.9; 26-OCT-2009 14:41:19; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;40030
3; 4894.8; 26-OCT-2009 15:18:07; Bright; 43.5; 22; 32Alp Leo ; 1.36; 15200;occ; 87; 0;40030
4; 6311.4; 26-OCT-2009 15:41:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40030
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3; 6313.3; 26-OCT-2009 19:02:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40032
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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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2; 2681.2; 27-OCT-2009 15:50:12; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;40045
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