

GOMOS Daily Report 07-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	10OCT2009 04:38:42
Data source version	GOMOS/5.00L03
Start time of products	07OCT2009 00:26:39
Stop time of products	07OCT2009 23:59:59
Store outputs in DB	Yes
Nb of level 1b prods	34
Nb of prods with errors	1

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

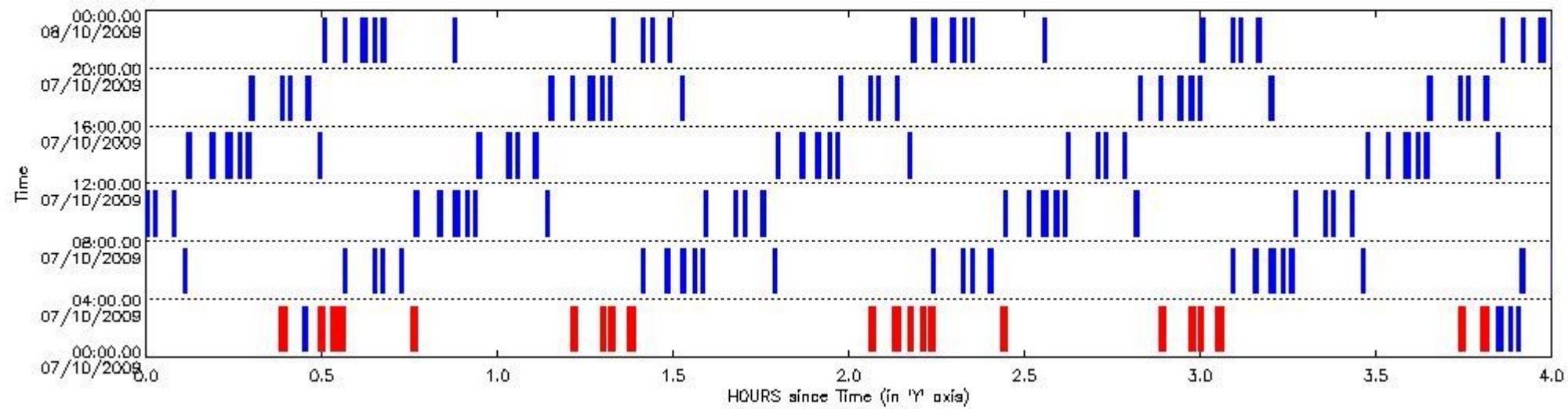
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

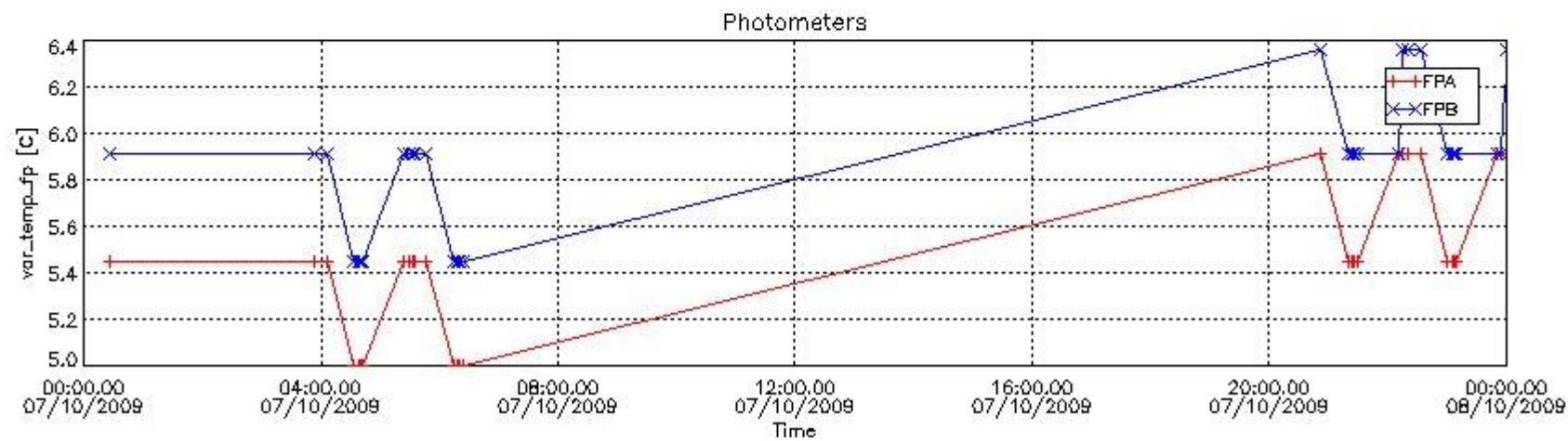
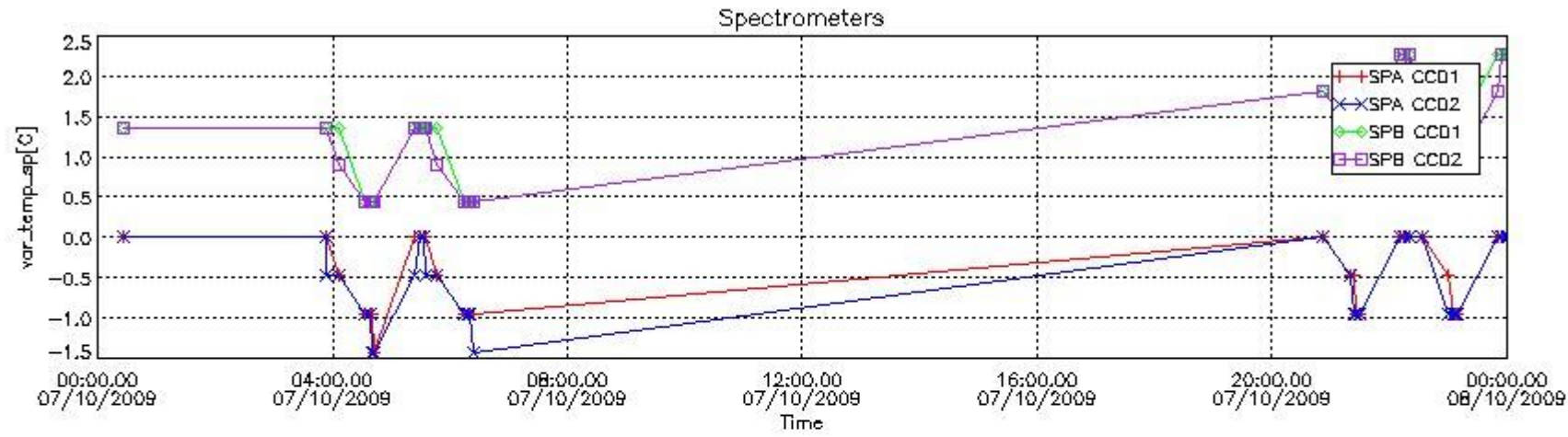
UTC start time	Star name	Star ID	Orbit
07-OCT-2009 00:22:46	15RhoPup	132	39749
07-OCT-2009 00:29:23	DSA1055	0	39750
07-OCT-2009 00:31:30	TauPup	161	39750
07-OCT-2009 00:32:54	AlpCar	2	39750
07-OCT-2009 00:45:11	The1Eri	157	39750
07-OCT-2009 01:12:25	43BetAnd	53	39750
07-OCT-2009 01:17:34	18AlpCas	68	39750
07-OCT-2009 01:18:58	27GamCas	76	39750
07-OCT-2009 01:22:06	23GamPer	160	39750
07-OCT-2009 02:03:22	15RhoPup	132	39750
07-OCT-2009 02:07:22	31EtaCMa	88	39750
07-OCT-2009 02:09:59	DSA1055	0	39751
07-OCT-2009 02:12:07	TauPup	161	39751
07-OCT-2009 02:13:31	AlpCar	2	39751
07-OCT-2009 02:25:48	The1Eri	157	39751

07-OCT-2009 02:53:00	43BetAnd	53	39751
07-OCT-2009 02:58:09	18AlpCas	68	39751
07-OCT-2009 02:59:34	27GamCas	76	39751
07-OCT-2009 03:02:41	23GamPer	160	39751
07-OCT-2009 03:43:59	15RhoPup	132	39751
07-OCT-2009 03:47:59	31EtaCMA	88	39751

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_1PNPDE20091007_002639_000000442083_00116_39749_9586.N1	07-OCT-2009 00:26:39	Dark	43.500	88	31Eta CMA	2.4480	20000.	87	39749	No
2	GOM_TRA_1PNPDE20091007_035238_000000372083_00119_39752_9625.N1	07-OCT-2009 03:52:38	Dark	36.500	161	Tau Pup	2.9310	4500.0	73	39752	No
3	GOM_TRA_1PNPDE20091007_035402_000000372083_00119_39752_9626.N1	07-OCT-2009 03:54:02	Dark	36.500	2	Alp Car	-0.73600	7000.0	73	39752	No
4	GOM_TRA_1PNPDE20091007_040619_000000382083_00119_39752_9627.N1	07-OCT-2009 04:06:19	Straylight	38.000	157	The1Eri	2.9060	9300.0	76	39752	No
5	GOM_TRA_1PNPDE20091007_043330_000000382083_00119_39752_9628.N1	07-OCT-2009 04:33:30	Bright	38.000	53	43Bet And	2.0480	3300.0	76	39752	No
6	GOM_TRA_1PNPDE20091007_043839_000000342083_00119_39752_9629.N1	07-OCT-2009 04:38:39	Bright	33.500	68	18Alp Cas	2.2250	4500.0	67	39752	No
7	GOM_TRA_1PNPDE20091007_044004_000000342083_00119_39752_9630.N1	07-OCT-2009 04:40:04	Bright	33.500	76	27Gam Cas	2.3000	30000.	67	39752	No
8	GOM_TRA_1PNPDE20091007_044311_000000432083_00119_39752_9631.N1	07-OCT-2009 04:43:11	Bright	42.500	160	23Gam Per	2.9300	4700.0	85	39752	No
9	GOM_TRA_1PNPDE20091007_052431_000000392083_00119_39752_9642.N1	07-OCT-2009 05:24:31	Dark	38.500	132	15Rho Pup	2.8030	6900.0	77	39752	No
10	GOM_TRA_1PNPDE20091007_052830_000000442083_00119_39752_9643.N1	07-OCT-2009 05:28:30	Dark	44.000	88	31Eta CMA	2.4480	20000.	88	39752	No
11	GOM_TRA_1PNPDE20091007_053316_000000362083_00120_39753_9644.N1	07-OCT-2009 05:33:16	Dark	36.000	161	Tau Pup	2.9310	4500.0	72	39753	No
12	GOM_TRA_1PNPDE20091007_053439_000000372083_00120_39753_9645.N1	07-OCT-2009 05:34:39	Dark	36.500	2	Alp Car	-0.73600	7000.0	73	39753	No
13	GOM_TRA_1PNPDE20091007_054656_000000382083_00120_39753_9646.N1	07-OCT-2009 05:46:56	Straylight	38.000	157	The1Eri	2.9060	9300.0	76	39753	No
14	GOM_TRA_1PNPDE20091007_061406_000000382083_00120_39753_9647.N1	07-OCT-2009 06:14:06	Bright	38.000	53	43Bet And	2.0480	3300.0	76	39753	No
15	GOM_TRA_1PNPDE20091007_061915_000000332083_00120_39753_9648.N1	07-OCT-2009 06:19:15	Bright	33.000	68	18Alp Cas	2.2250	4500.0	66	39753	No
16	GOM_TRA_1PNPDE20091007_062040_000000332083_00120_39753_9649.N1	07-OCT-2009 06:20:40	Bright	33.000	76	27Gam Cas	2.3000	30000.	66	39753	No
17	GOM_TRA_1PNPDE20091007_062346_000000422083_00120_39753_9650.N1	07-OCT-2009 06:23:46	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	39753	No
18	GOM_TRA_1PNPDE20091007_205225_000000372083_00129_39762_9736.N1	07-OCT-2009 20:52:25	Straylight	37.000	157	The1Eri	2.9060	9300.0	74	39762	Yes
19	GOM_TRA_1PNPDE20091007_211925_000000382083_00129_39762_9737.N1	07-OCT-2009 21:19:25	Bright	38.000	53	43Bet And	2.0480	3300.0	76	39762	No
20	GOM_TRA_1PNPDE20091007_212436_000000332083_00129_39762_9738.N1	07-OCT-2009 21:24:36	Bright	33.000	68	18Alp Cas	2.2250	4500.0	66	39762	No
21	GOM_TRA_1PNPDE20091007_212601_000000332083_00129_39762_9739.N1	07-OCT-2009 21:26:01	Bright	33.000	76	27Gam Cas	2.3000	30000.	66	39762	No
22	GOM_TRA_1PNPDE20091007_212901_000000422083_00129_39762_9740.N1	07-OCT-2009 21:29:01	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	39762	No
23	GOM_TRA_1PNPDE20091007_221040_000000392083_00129_39762_9758.N1	07-OCT-2009 22:10:40	Dark	39.000	132	15Rho Pup	2.8030	6900.0	78	39762	No
24	GOM_TRA_1PNPDE20091007_221411_000000362083_00129_39762_9759.N1	07-OCT-2009 22:14:11	Dark	35.500	70	Zet Pup	2.2460	39000.	71	39762	No
25	GOM_TRA_1PNPDE20091007_221922_000000372083_00130_39763_9760.N1	07-OCT-2009 22:19:22	Dark	37.000	161	Tau Pup	2.9310	4500.0	74	39763	No
26	GOM_TRA_1PNPDE20091007_222046_000000372083_00130_39763_9761.N1	07-OCT-2009 22:20:46	Dark	36.500	2	Alp Car	-0.73600	7000.0	73	39763	No
27	GOM_TRA_1PNPDE20091007_223301_000000382083_00130_39763_9762.N1	07-OCT-2009 22:33:01	Straylight	38.000	157	The1Eri	2.9060	9300.0	76	39763	No
28	GOM_TRA_1PNPDE20091007_230000_000000382083_00130_39763_9763.N1	07-OCT-2009 23:00:00	Bright	38.000	53	43Bet And	2.0480	3300.0	76	39763	No
29	GOM_TRA_1PNPDE20091007_230511_000000332083_00130_39763_9764.N1	07-OCT-2009 23:05:11	Bright	33.000	68	18Alp Cas	2.2250	4500.0	66	39763	No
30	GOM_TRA_1PNPDE20091007_230636_000000342083_00130_39763_9765.N1	07-OCT-2009 23:06:36	Bright	33.500	76	27Gam Cas	2.3000	30000.	67	39763	No
31	GOM_TRA_1PNPDE20091007_230936_000000422083_00130_39763_9766.N1	07-OCT-2009 23:09:36	Bright	42.000	160	23Gam Per	2.9300	4700.0	84	39763	No
32	GOM_TRA_1PNPDE20091007_235117_000000392083_00130_39763_9776.N1	07-OCT-2009 23:51:17	Dark	38.500	132	15Rho Pup	2.8030	6900.0	77	39763	No
33	GOM_TRA_1PNPDE20091007_235448_000000362083_00130_39763_9777.N1	07-OCT-2009 23:54:48	Dark	35.500	70	Zet Pup	2.2460	39000.	71	39763	No
34	GOM_TRA_1PNPDE20091007_235959_000000372083_00131_39764_9778.N1	07-OCT-2009 23:59:59	Dark	37.000	161	Tau Pup	2.9310	4500.0	74	39764	No

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



4. Overview of dark signal processing per product

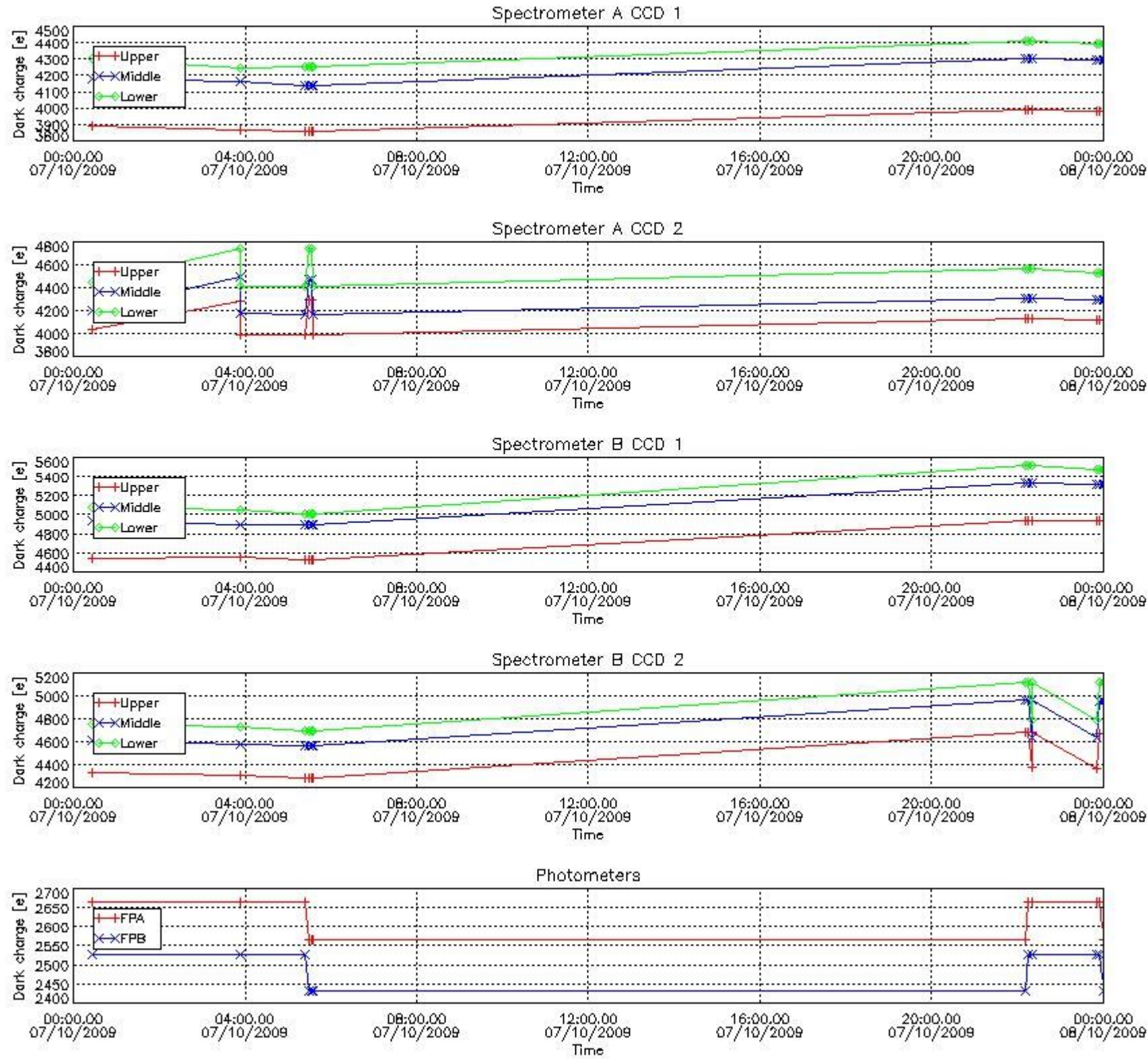
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20091007_002639_000000442083_00116_39749_9586.N1	DC map used
GOM_TRA_1PNPDE20091007_205225_000000372083_00129_39762_9736.N1	DC map with no T dep.
GOM_TRA_1PNPDE20091007_211925_000000382083_00129_39762_9737.N1	DC map used
GOM_TRA_1PNPDE20091007_212436_000000332083_00129_39762_9738.N1	DC map used
GOM_TRA_1PNPDE20091007_212601_000000332083_00129_39762_9739.N1	DC map used
GOM_TRA_1PNPDE20091007_212901_000000422083_00129_39762_9740.N1	DC map used

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



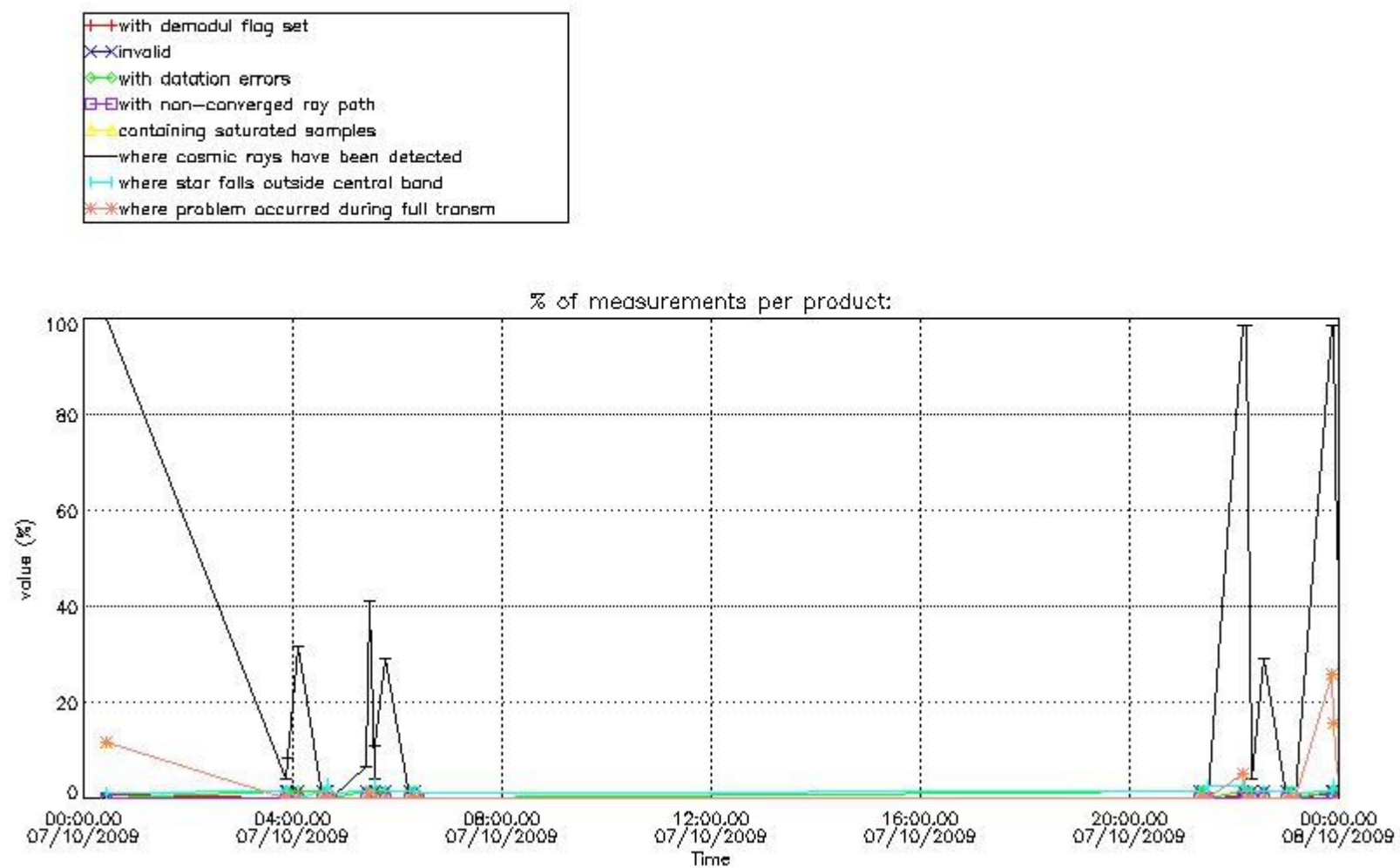
5. Demodulation flag and quality information monitoring

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.

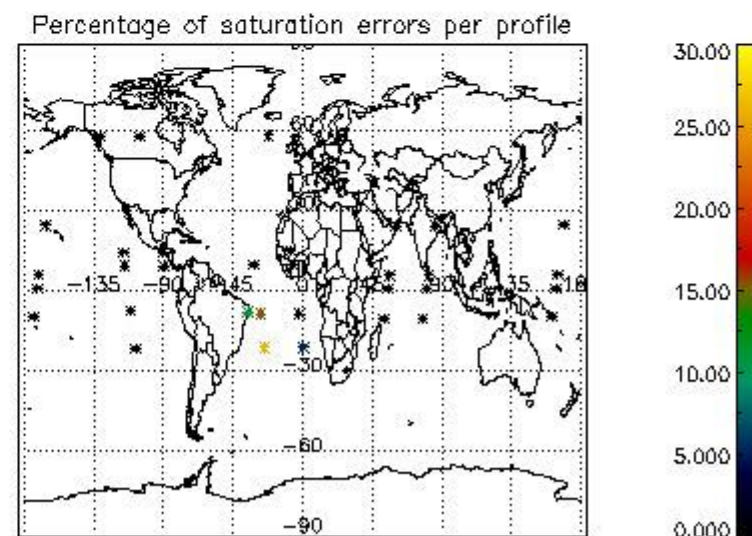
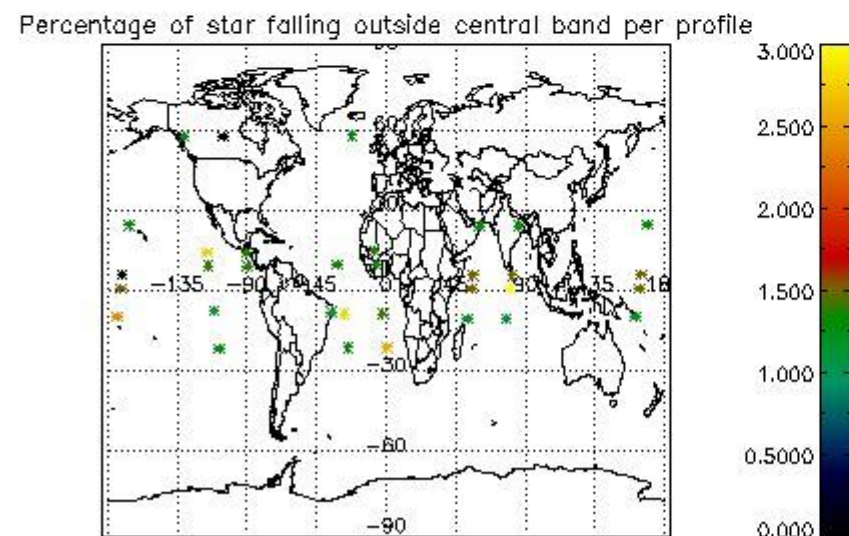
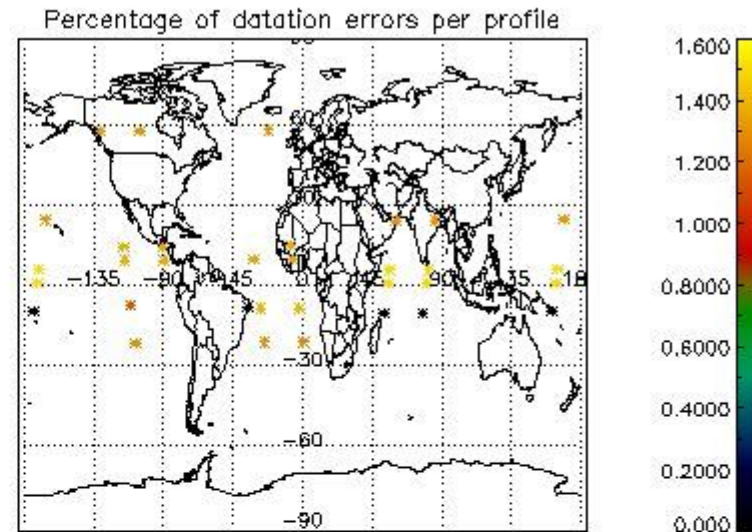
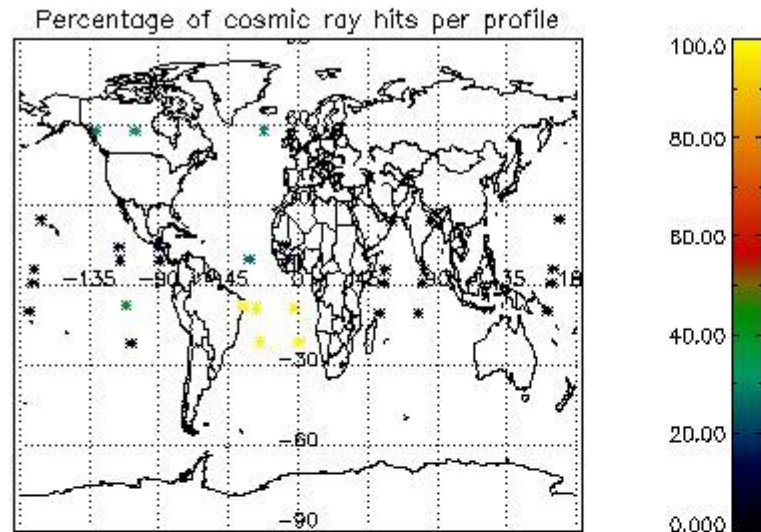
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	39.3939 %
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)



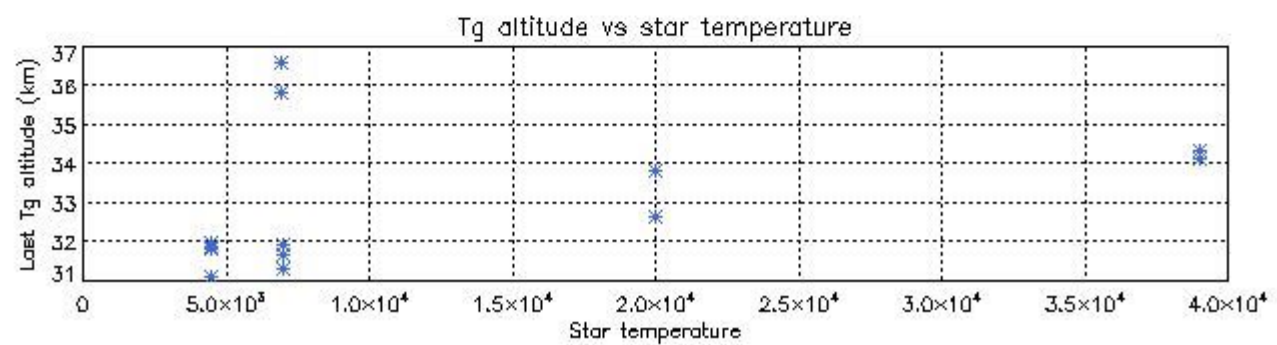
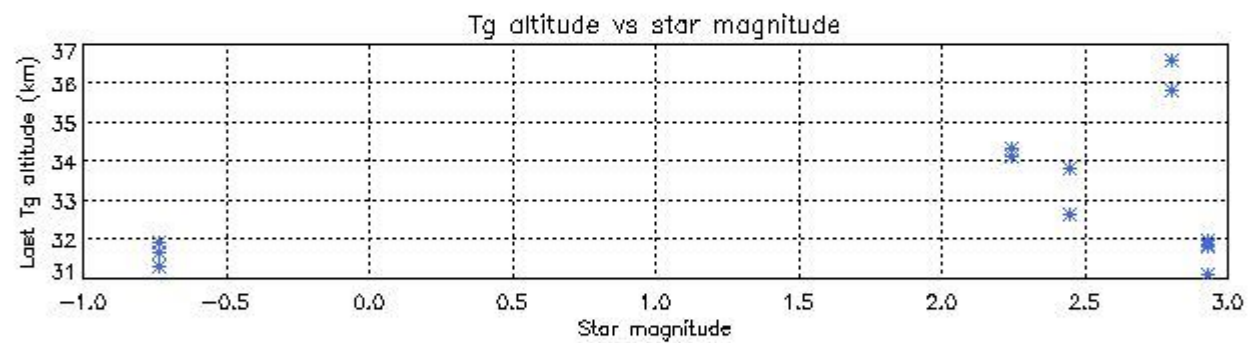
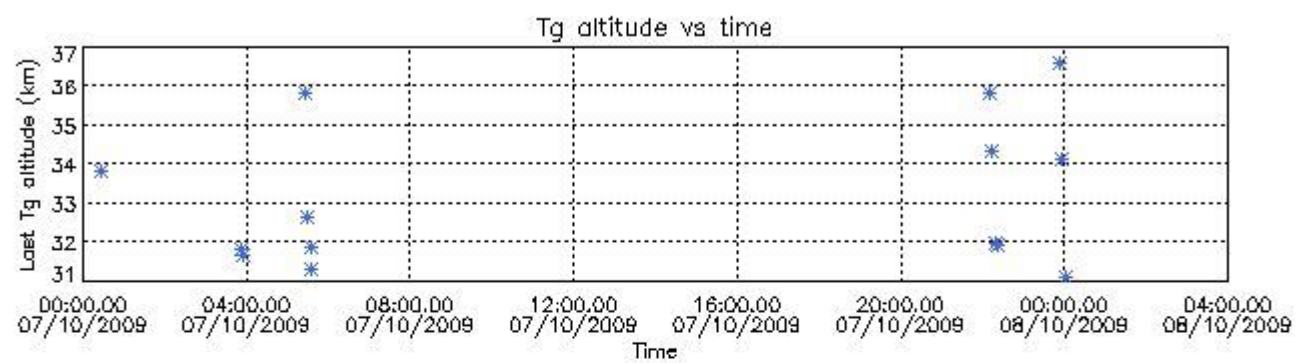
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	33.203	34.834	NaN
St. deviation:	1.8637	2.2426	NaN
Maximum:	36.587	38.754	NaN
Minimum:	31.112	31.770	NaN
Number of data:	14.000	16.000	NaN

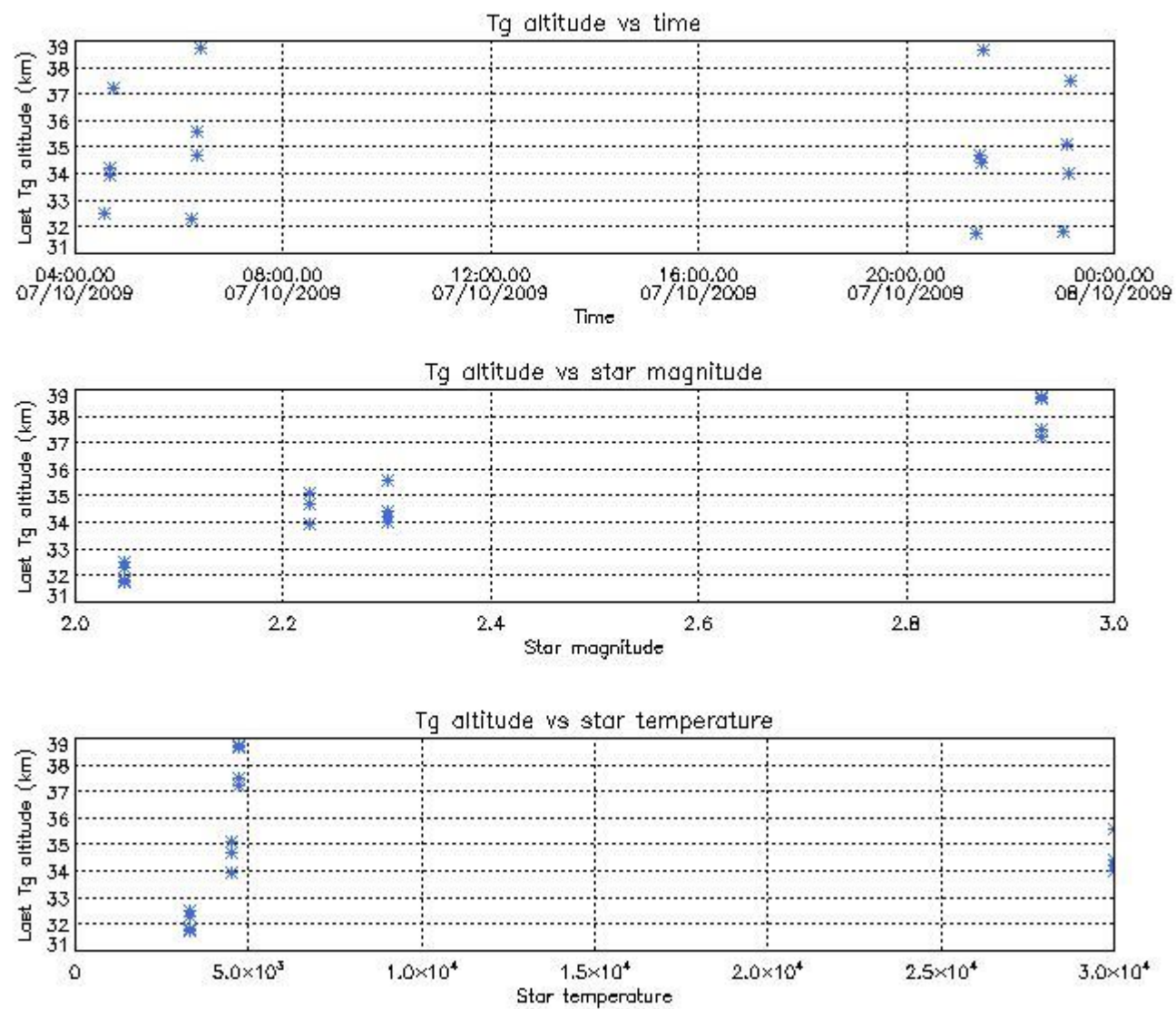
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

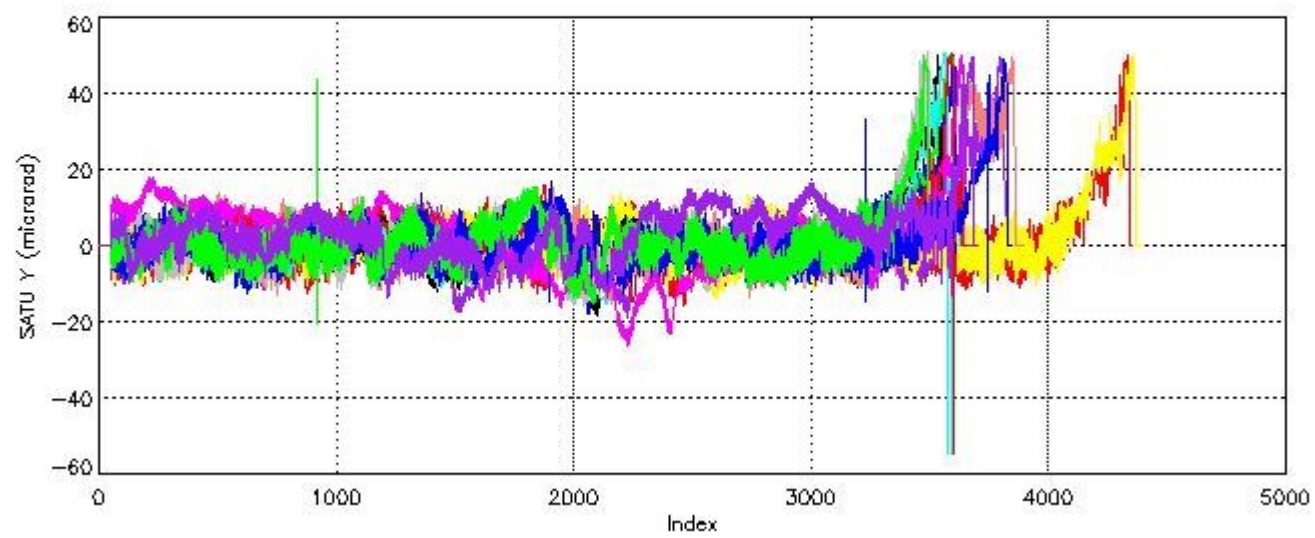
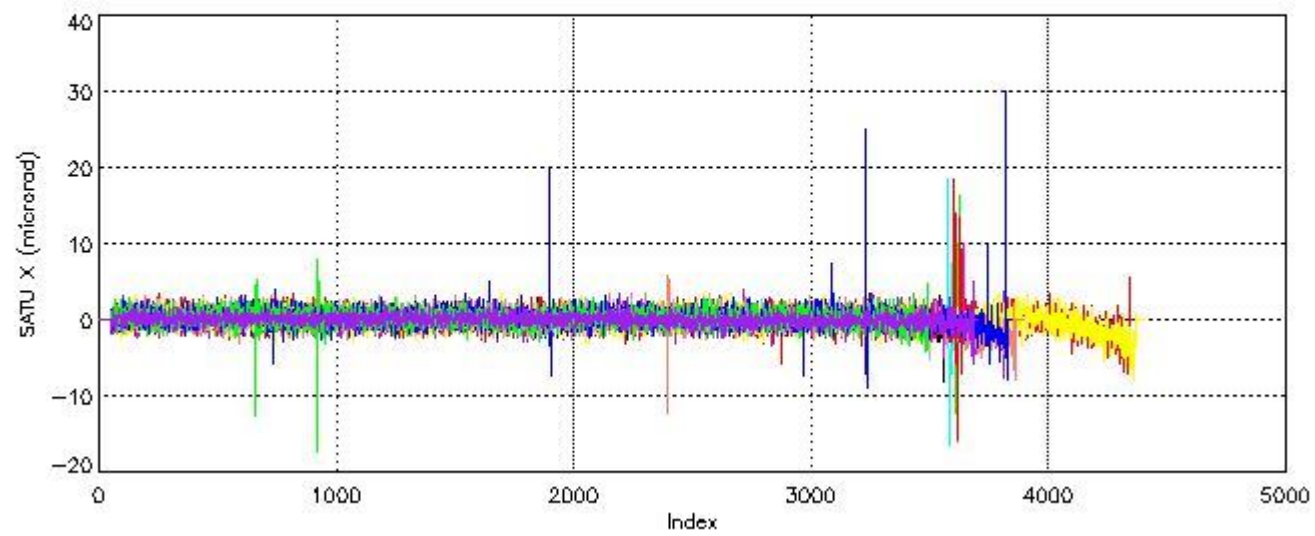


7. Star Acquisition and Tracking Unit (SATU)

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:	0.18491	0.76698	0.24020	0.37024
St. deviation:	0.70459	4.1867	0.66338	3.7904
Maximum:	7.9000	43.700	3.8000	18.900
Minimum:	-17.300	-20.400	-4.7000	-14.800

Number of data:	14950.	14950.	16700.	16700.
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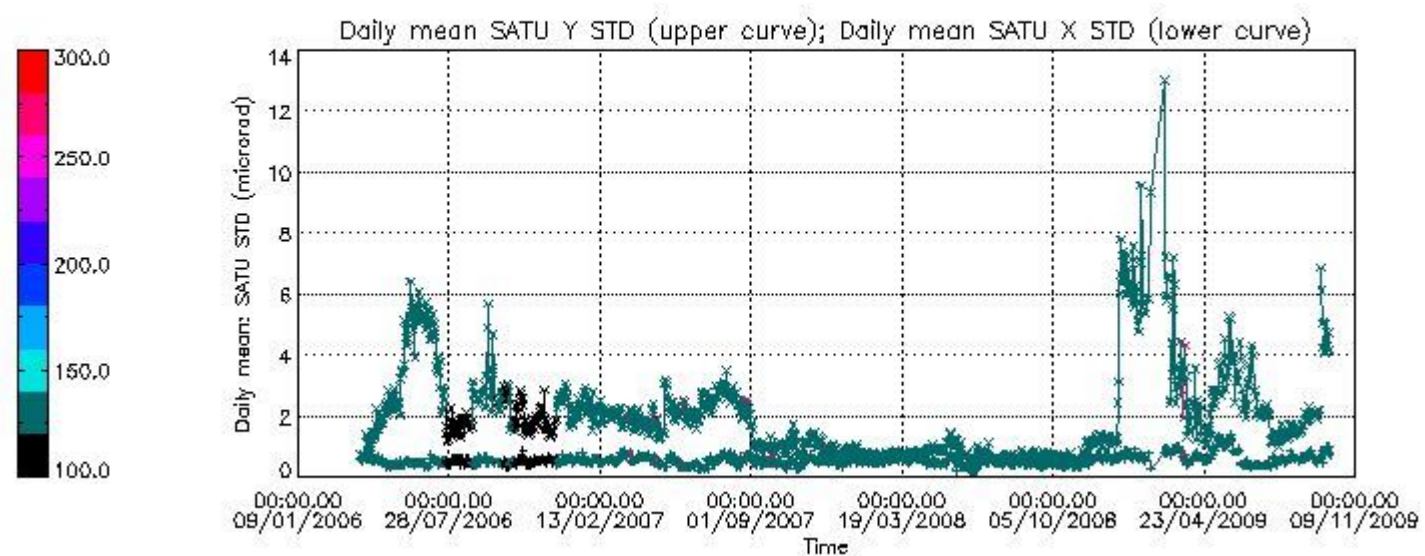
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

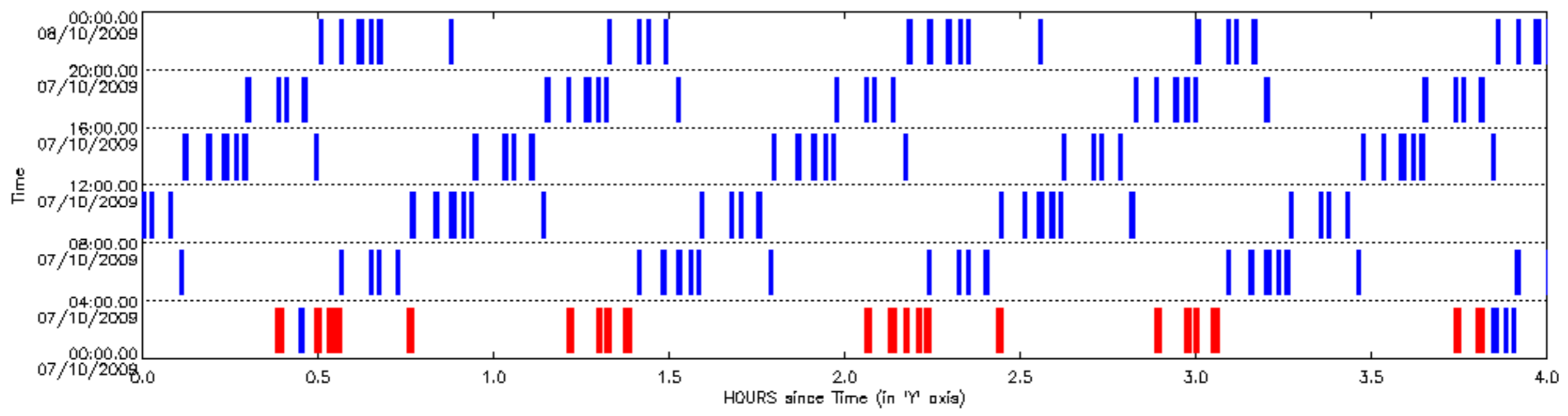
Lower curve: STD of SATU X axis

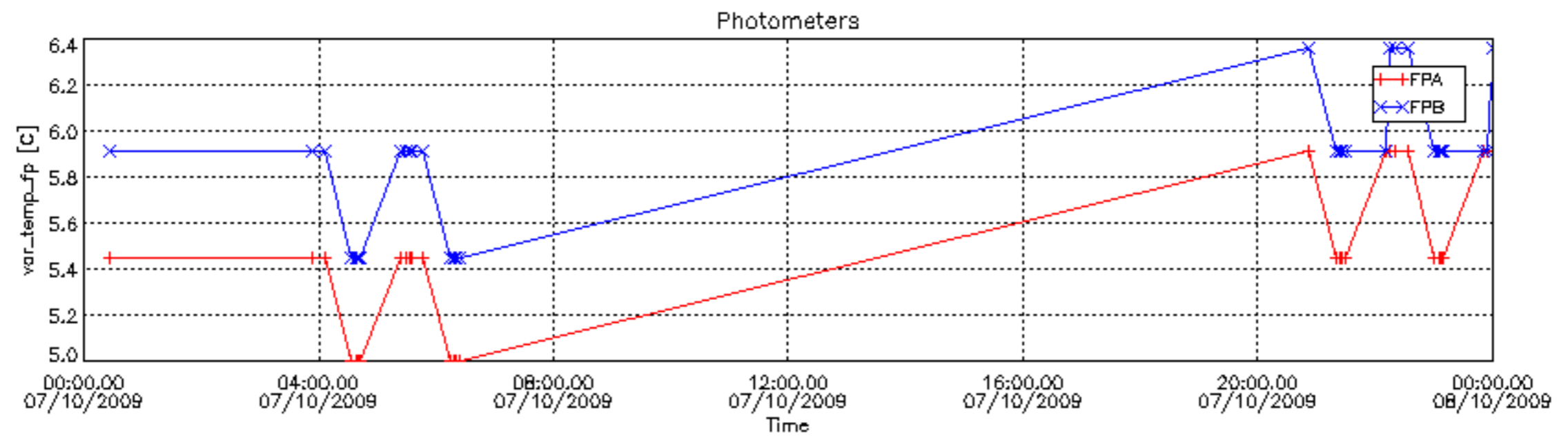
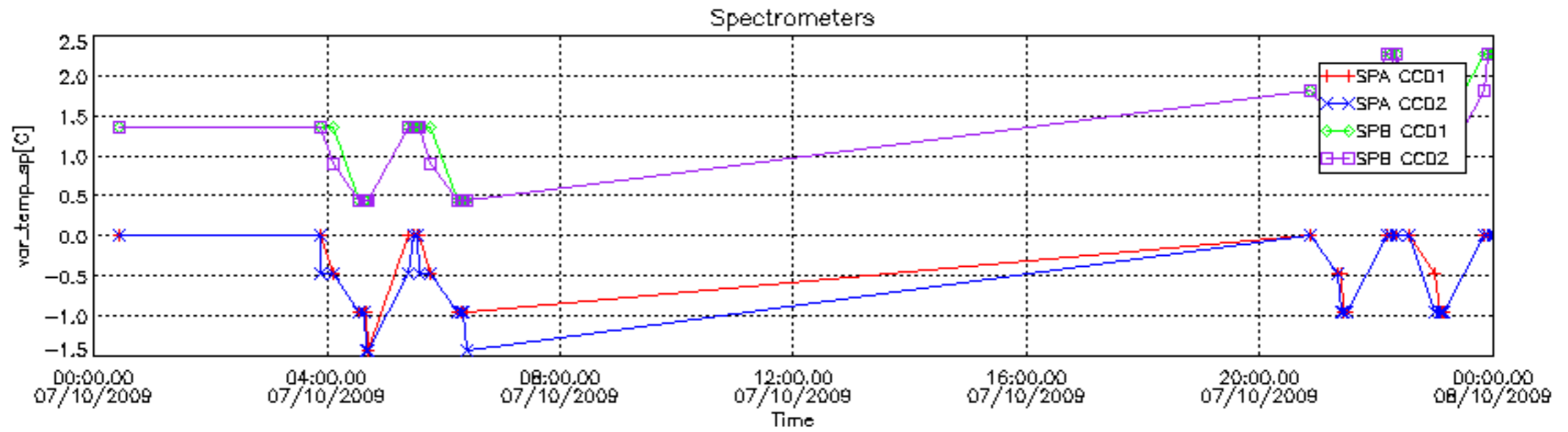


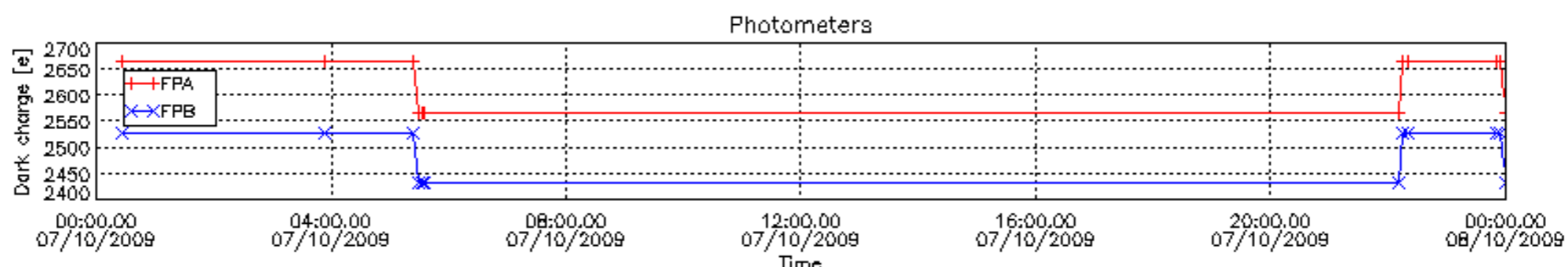
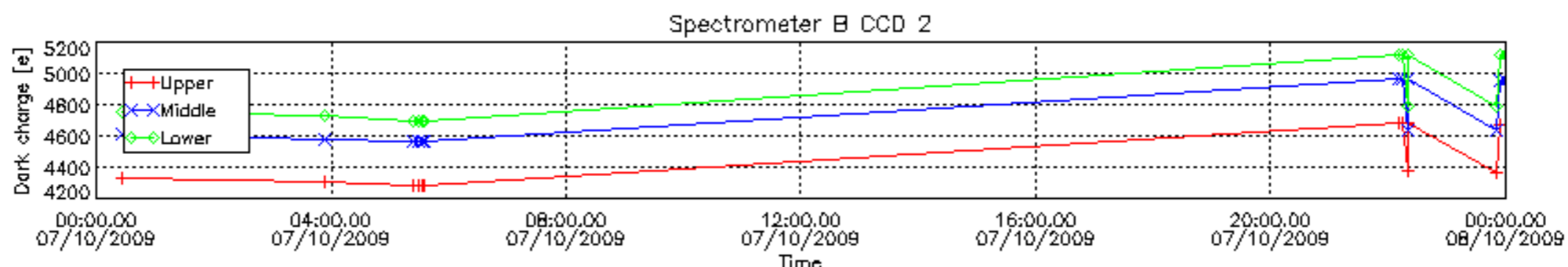
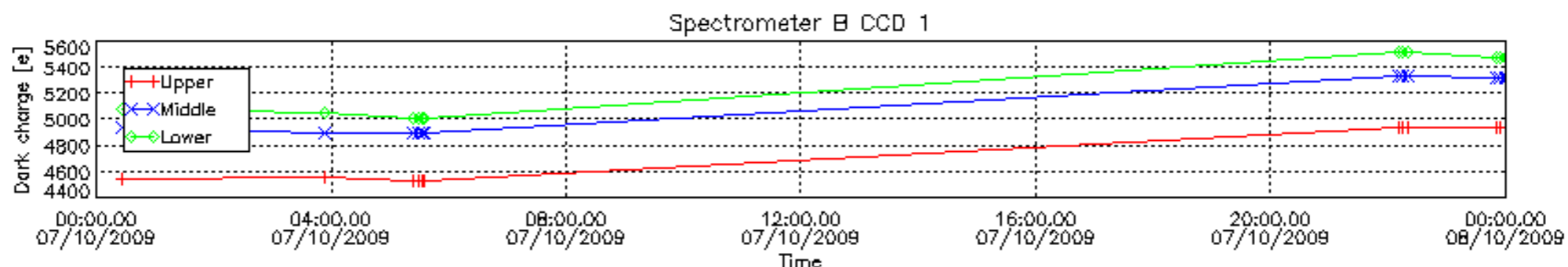
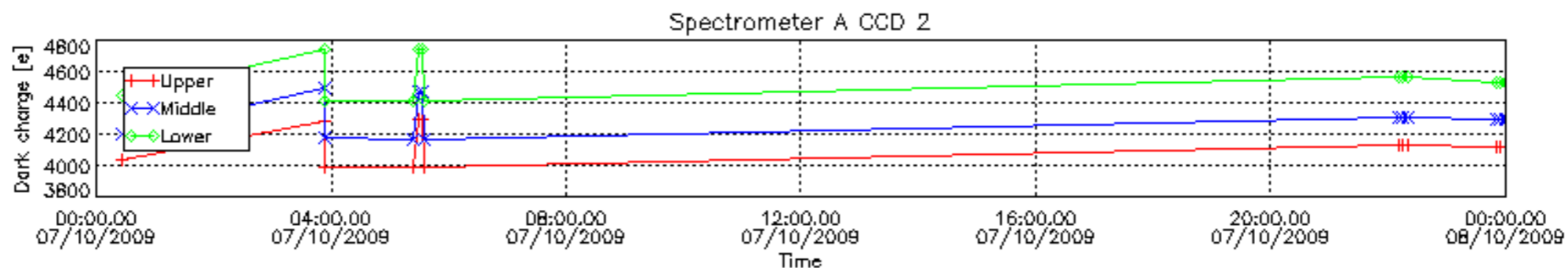
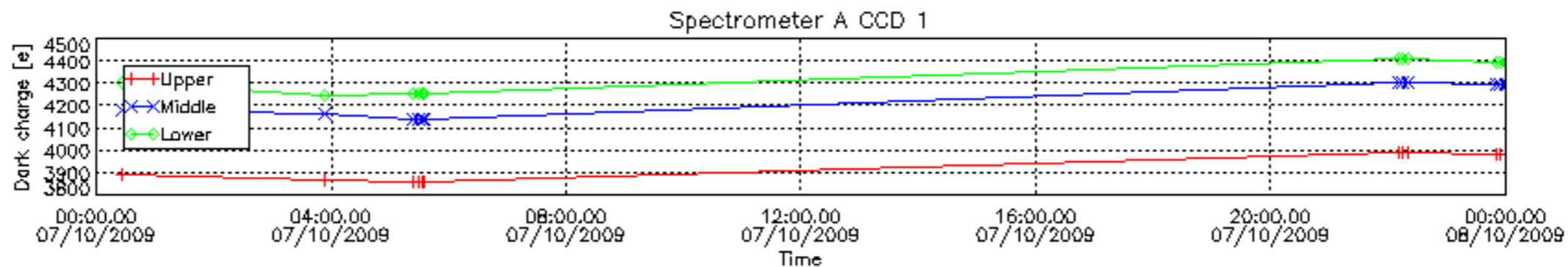
8. Auxiliary Data Files used for the production reported in section 2.4

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.

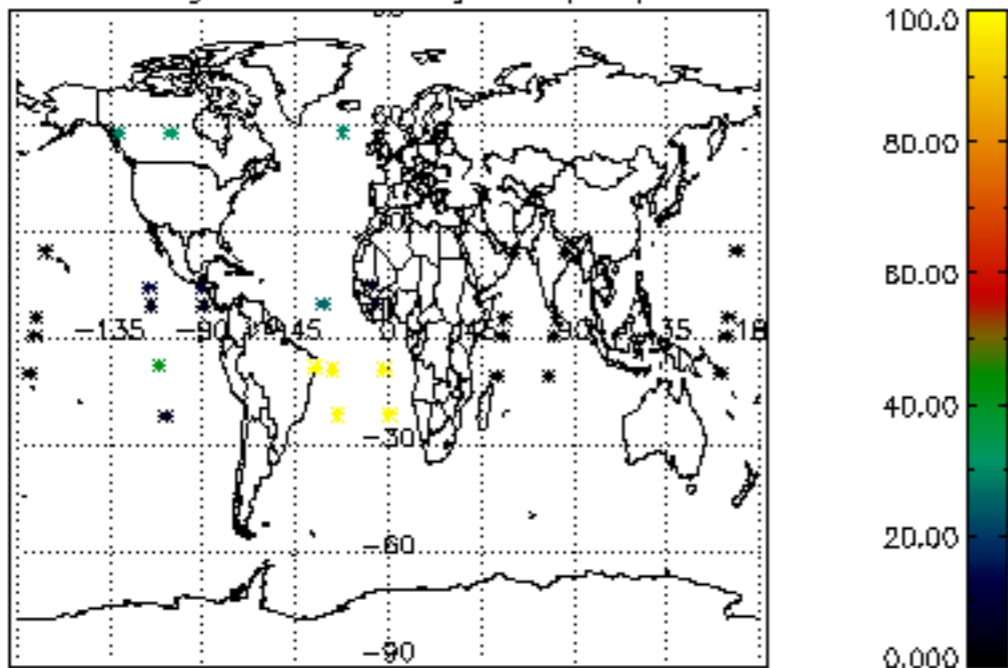
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	07-OCT-2009 00:26:39
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090930_074316_20090929_000000_20100101_000000	1	07-OCT-2009 00:26:39
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091007_100119_20091005_000000_20100101_000000	18	07-OCT-2009 20:52:25
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	07-OCT-2009 00:26:39
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	07-OCT-2009 00:26:39
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	07-OCT-2009 00:26:39
ECMWF_FILE	AUX_ECF_AXNECM20091006_064111_20091006_210000_20091007_090000	1	07-OCT-2009 00:26:39
ECMWF_FILE	AUX_ECF_AXNECM20091006_184303_20091007_030000_20091007_150000	2	07-OCT-2009 03:52:38
ECMWF_FILE	AUX_ECA_AXNECM20091007_062113_20091006_210000_20091007_090000	9	07-OCT-2009 05:24:31
ECMWF_FILE	AUX_ECF_AXNECM20091007_062114_20091007_150000_20091008_030000	18	07-OCT-2009 20:52:25
ECMWF_FILE	AUX_ECF_AXNECM20091007_062114_20091007_210000_20091008_090000	23	07-OCT-2009 22:10:40
OPTIONAL_ECMWF_FILE	MISSING	1	07-OCT-2009 00:26:39
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091007_001321_000054192083_00116_39749_8915.N1	1	07-OCT-2009 00:26:39
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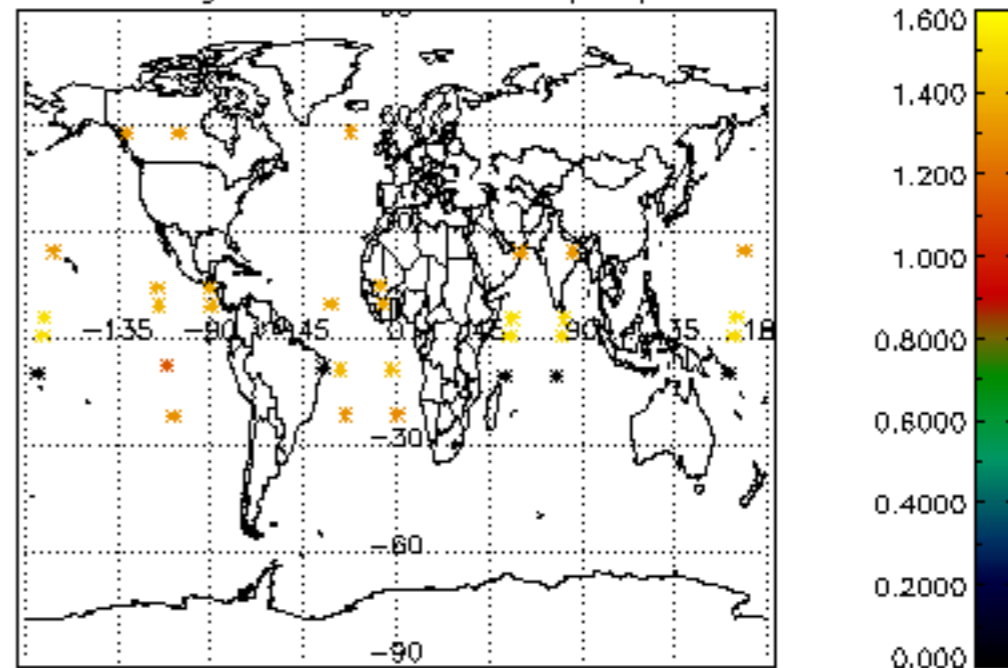




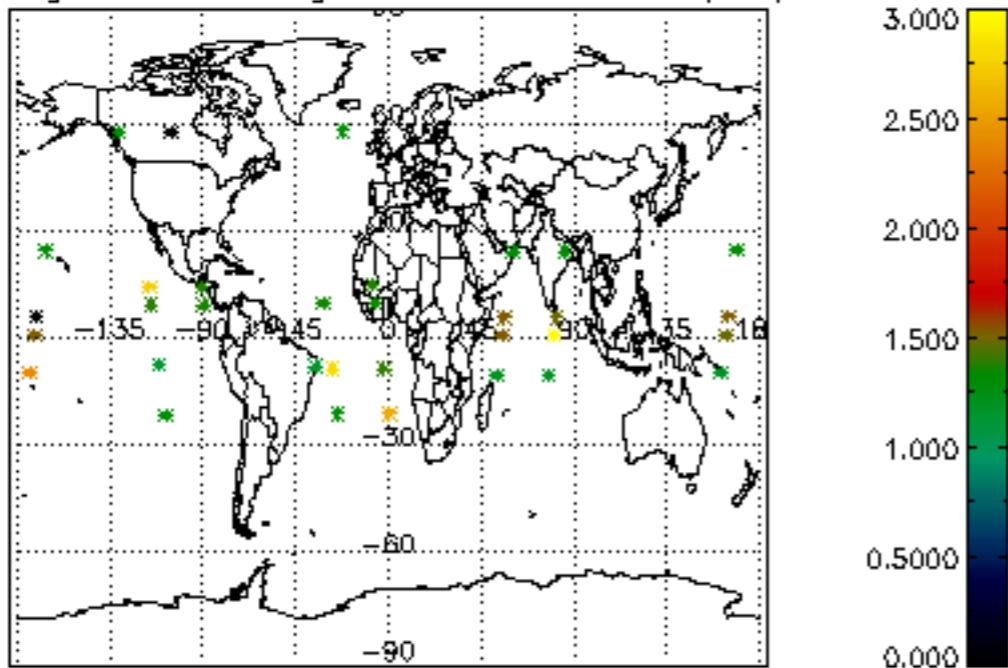
Percentage of cosmic ray hits per profile



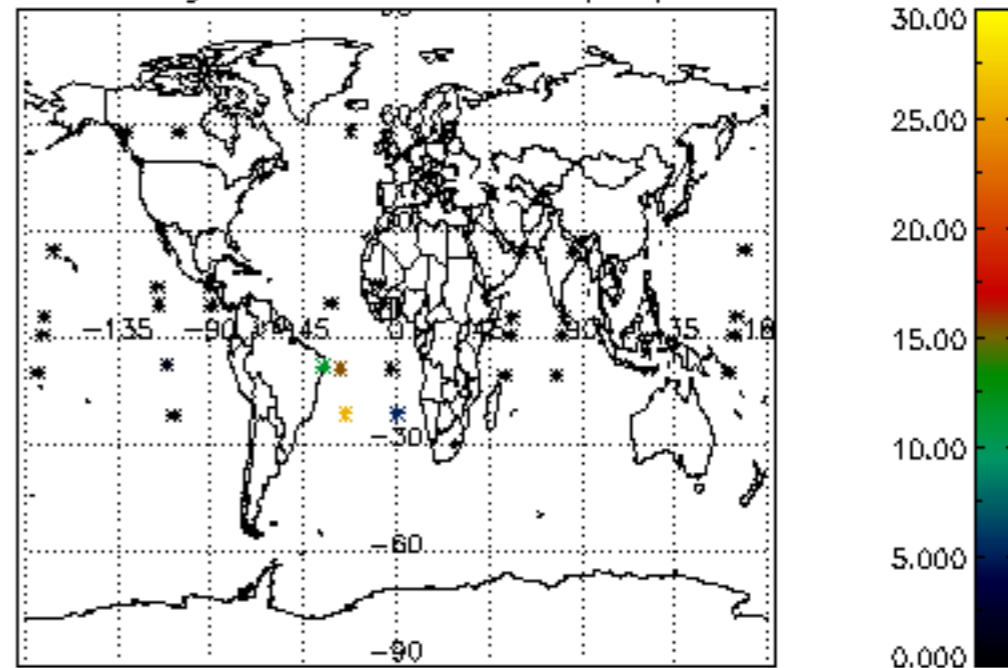
Percentage of datation errors per profile



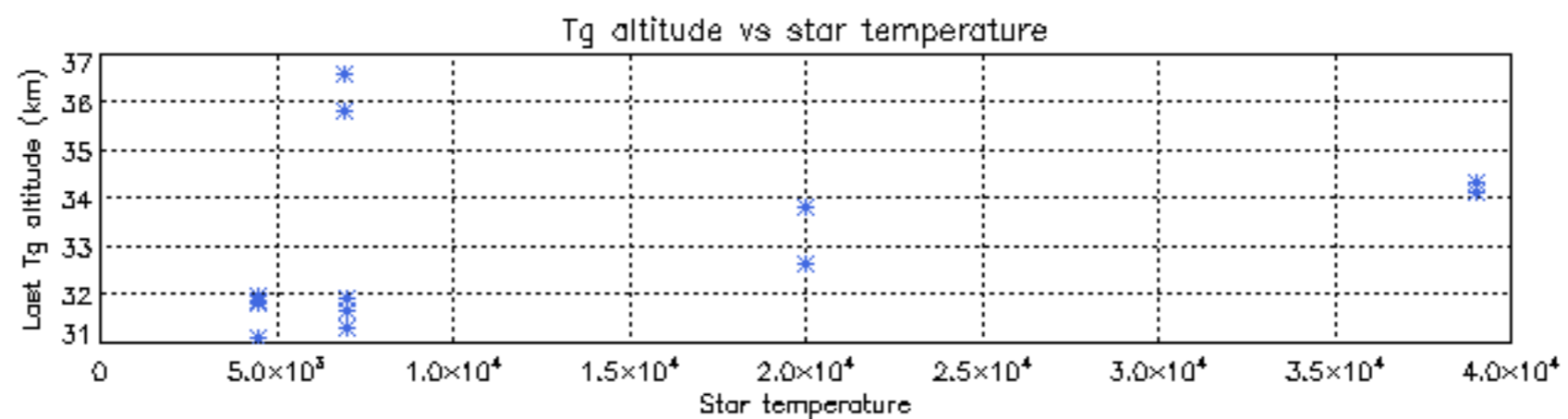
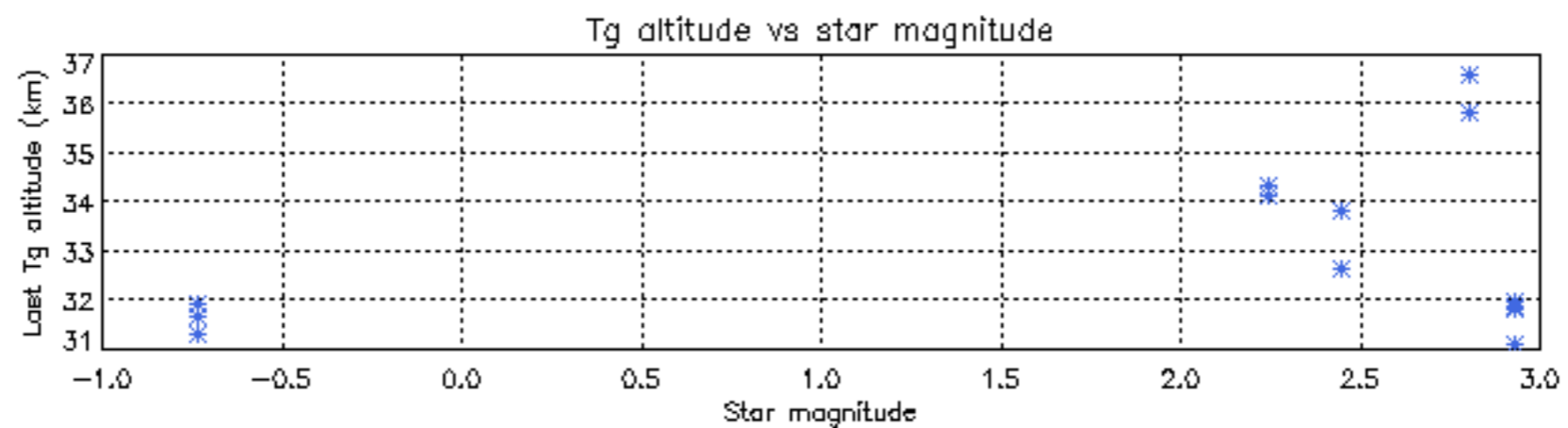
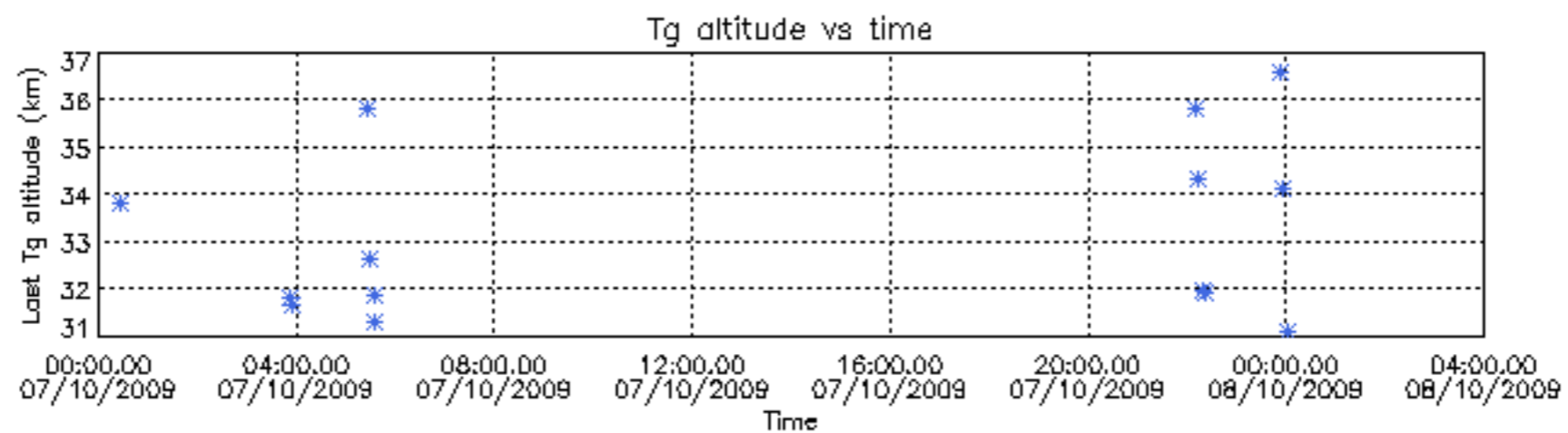
Percentage of star falling outside central band per profile



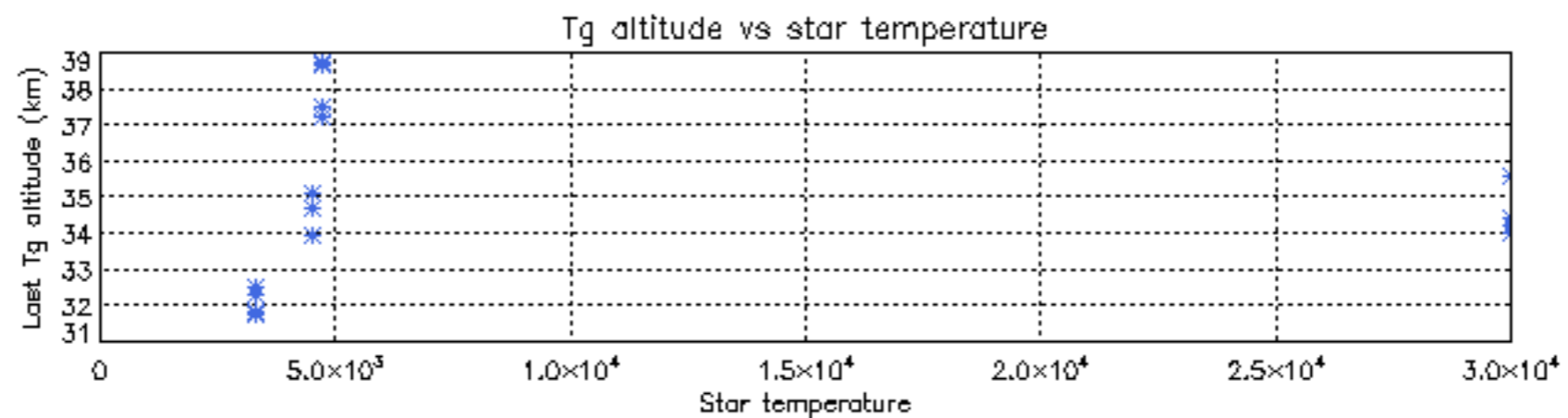
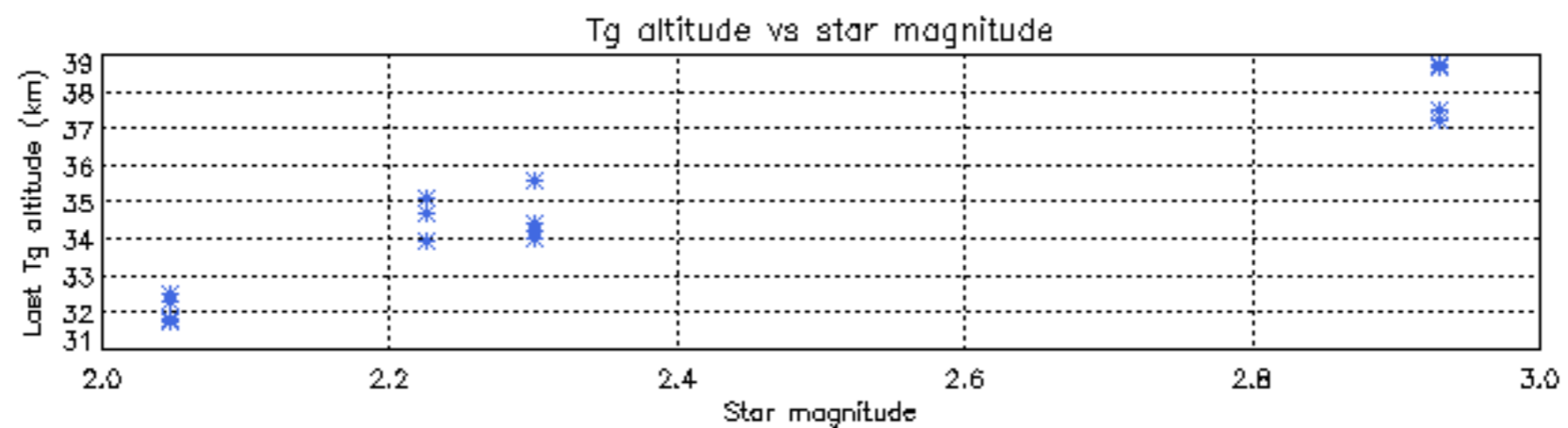
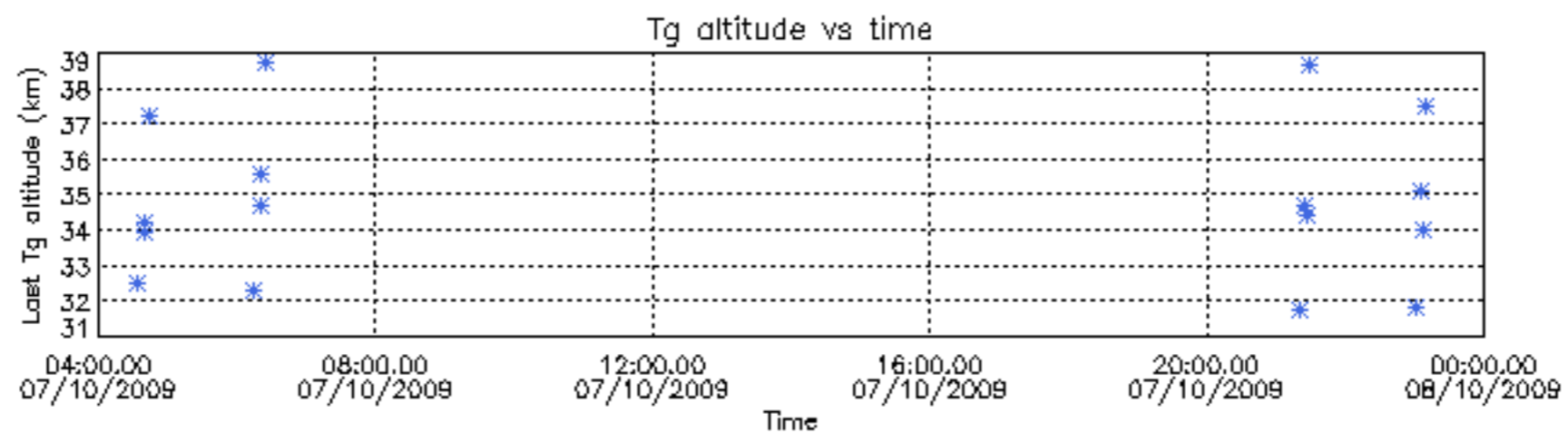
Percentage of saturation errors per profile

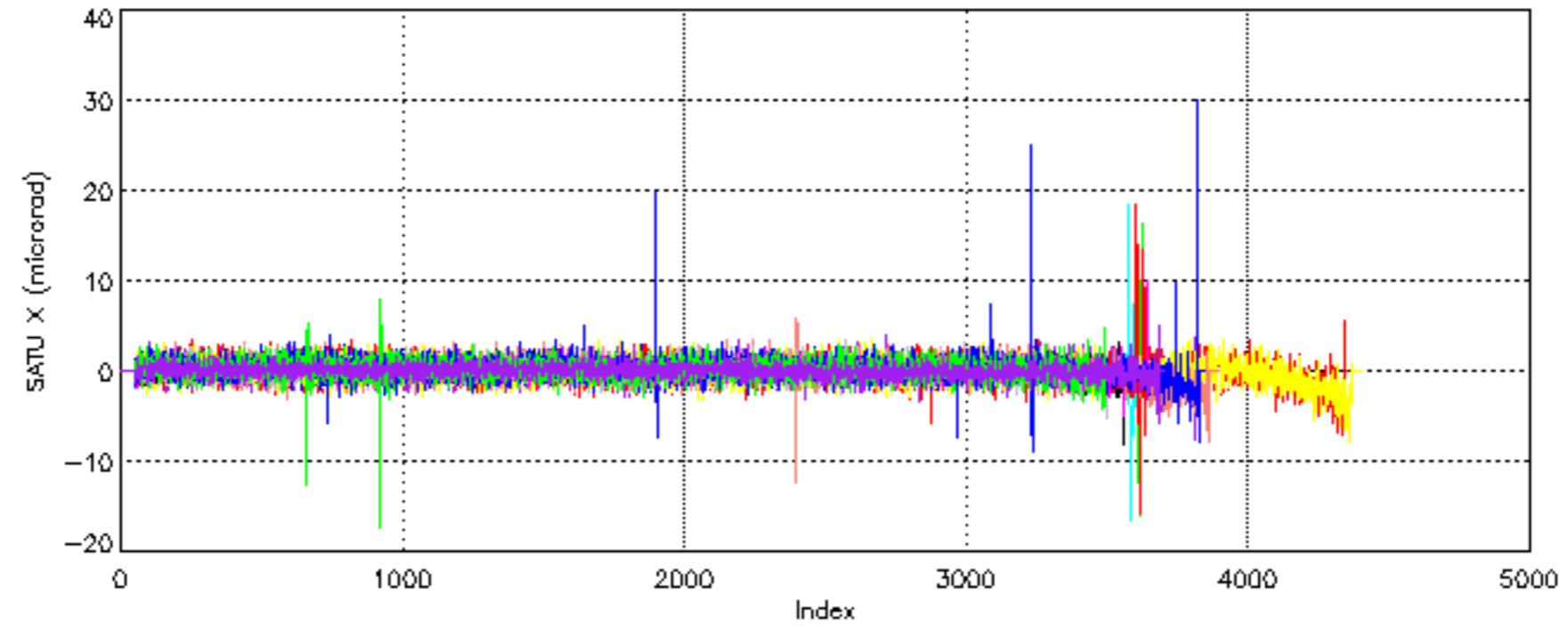


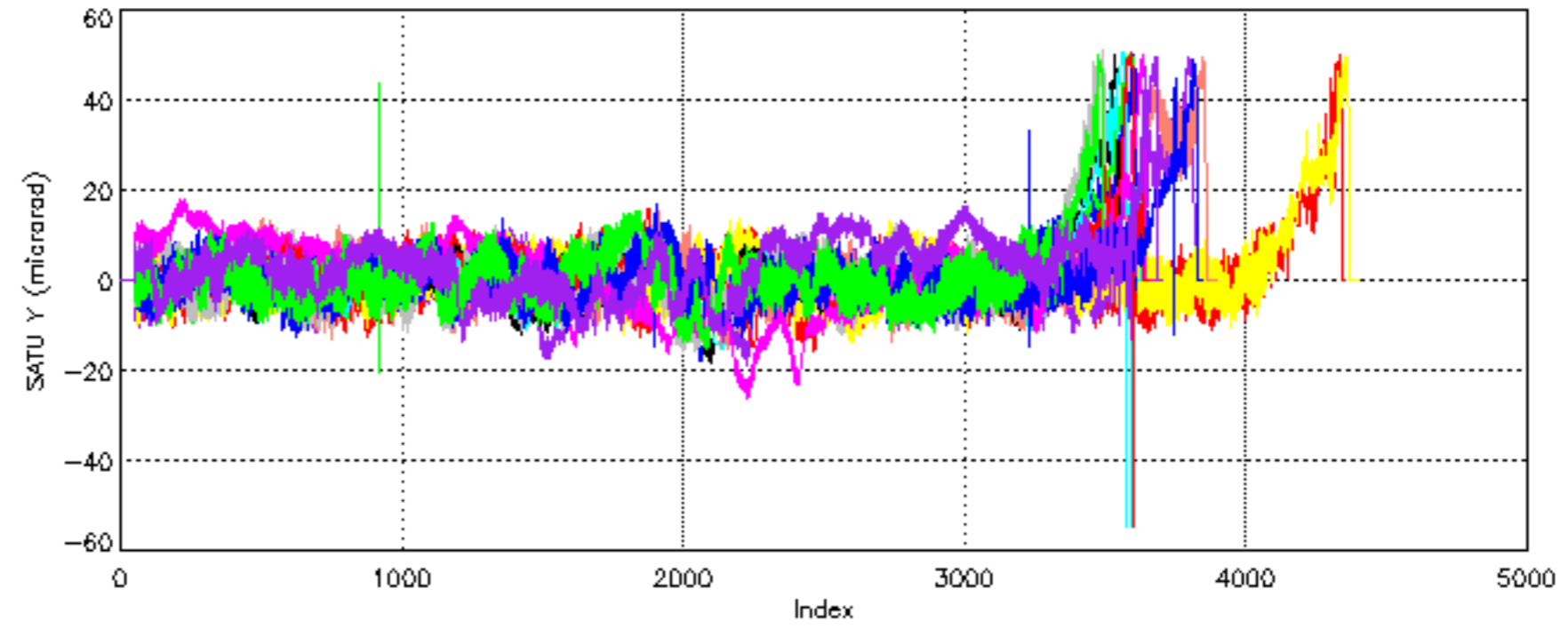
Tangent altitude at which the star is lost

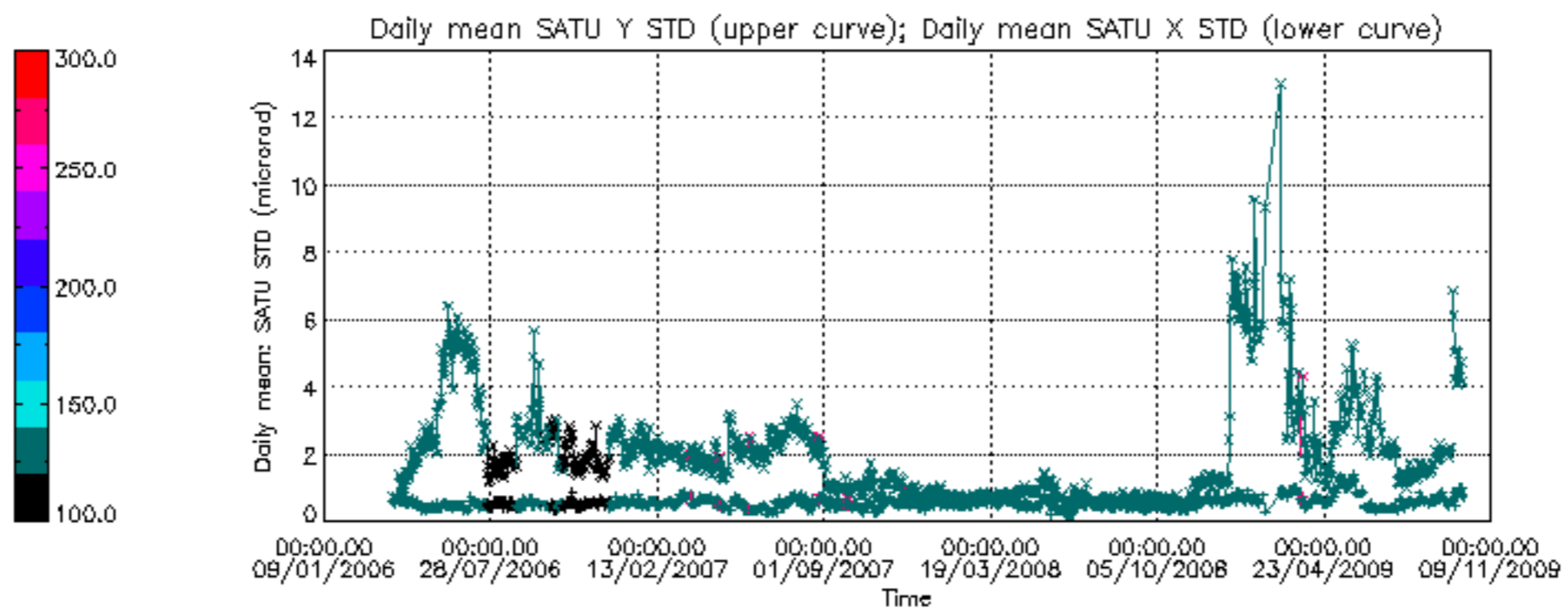


Tangent altitude at which the star is lost









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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
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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
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3; 270.7; 26-OCT-2009 07:18:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40026
4; 459.6; 26-OCT-2009 07:21:48; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;40026
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3; 6162.6; 26-OCT-2009 12:18:03; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;40028
4; 6309.4; 26-OCT-2009 12:20:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40028
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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
5; 6310.4; 26-OCT-2009 14:01:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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
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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