

GOMOS Daily Report 14-JUL-2007

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	17JUL2007 07:37:29
Data source version	GOMOS/5.00
Start time of products	14-07-2007 (14JUL2007 00:00:00)
Stop time of products	15-07-2007 (15JUL2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

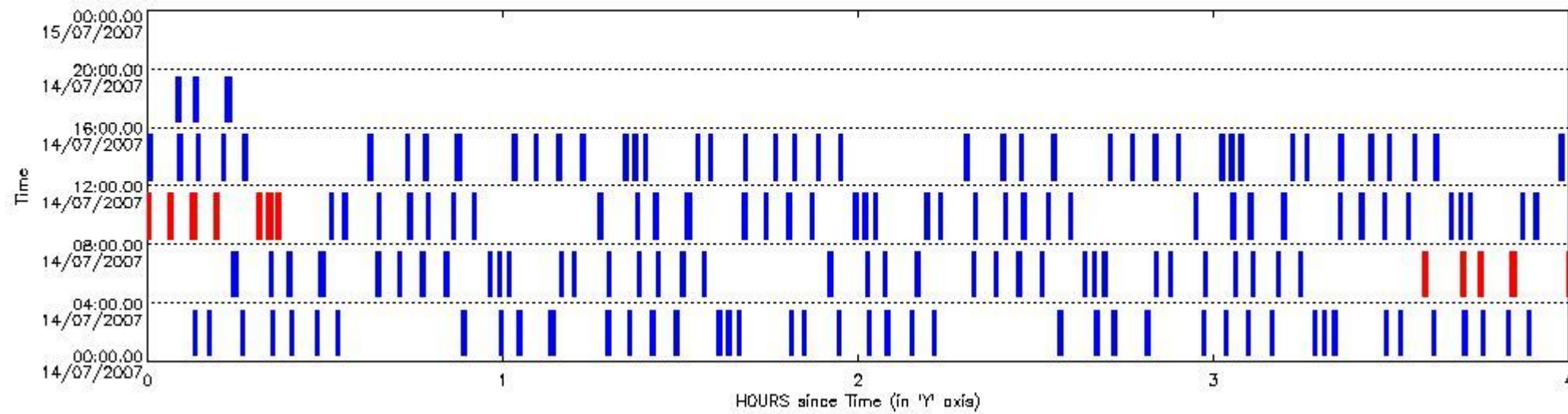
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

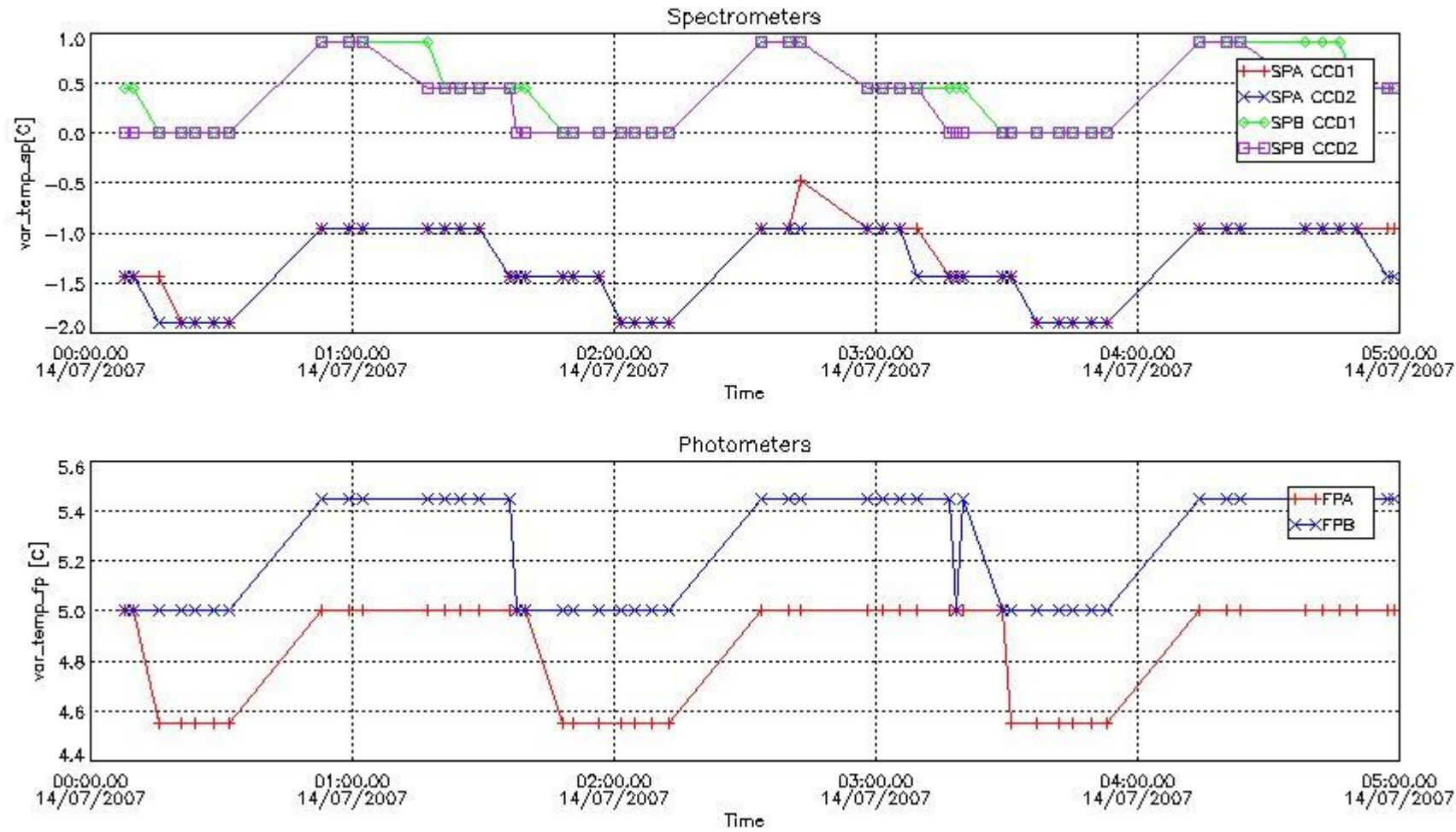
UTC start time	Star name	Star ID	Orbit
14-JUL-2007 07:35:15	87AlpTau	13	28073
14-JUL-2007 07:41:36	19BetOri	7	28073
14-JUL-2007 07:44:32	34GamEri	165	28073
14-JUL-2007 07:49:58	DSA1061	0	28073
14-JUL-2007 07:59:37	AlpEri	9	28074
14-JUL-2007 08:03:19	BetHyi	135	28074
14-JUL-2007 08:07:09	AlpTuc	148	28074
14-JUL-2007 08:11:06	AlpPav	45	28074
14-JUL-2007 08:18:26	KapSco	85	28074
14-JUL-2007 08:20:02	38ZetSgr	103	28074
14-JUL-2007 08:21:43	22LamSgr	137	28074

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
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1	GOM_TRA_1PNPDE20070714_000739_000000362059_00460_28069_4450.N1	14-JUL-2007 00:07:39	Bright	36.000	126	60Bet Oph	2.7700	4250.0	72	28069	No
2	GOM_TRA_1PNPDE20070714_000956_000000362059_00460_28069_4451.N1	14-JUL-2007 00:09:56	Bright	36.000	59	55Alp Oph	2.0800	8900.0	72	28069	No
3	GOM_TRA_1PNPDE20070714_001545_000000372059_00460_28069_4452.N1	14-JUL-2007 00:15:45	Bright	36.500	133	40Zet Her	2.8070	6000.0	73	28069	No
4	GOM_TRA_1PNPDE20070714_002053_000000332059_00460_28069_4453.N1	14-JUL-2007 00:20:53	Bright	33.000	69	33Gam Dra	2.2310	3800.0	66	28069	No
5	GOM_TRA_1PNPDE20070714_002359_000000362059_00460_28069_4454.N1	14-JUL-2007 00:23:59	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	28069	No
6	GOM_TRA_1PNPDE20070714_002811_000000372059_00460_28069_4455.N1	14-JUL-2007 00:28:11	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	28069	No
7	GOM_TRA_1PNPDE20070714_003152_000000352059_00460_28069_4456.N1	14-JUL-2007 00:31:52	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	28069	No
8	GOM_TRA_1PNPDE20070714_005259_000000482059_00460_28069_4457.N1	14-JUL-2007 00:52:59	Twilight	48.000	13	87Alp Tau	0.86700	3800.0	96	28069	No
9	GOM_TRA_1PNPDE20070714_005919_000000392059_00460_28069_4458.N1	14-JUL-2007 00:59:19	Dark	39.000	7	19Bet Ori	0.10000	14000.	78	28069	No
10	GOM_TRA_1PNPDE20070714_010215_000000482059_00460_28069_4459.N1	14-JUL-2007 01:02:15	Dark	47.500	165	34Gam Eri	2.9500	3200.0	95	28069	No
11	GOM_TRA_1PNPDE20070714_011719_000000532059_00461_28070_4586.N1	14-JUL-2007 01:17:19	Dark	53.000	9	Alp Eri	0.45300	24000.	106	28070	No
12	GOM_TRA_1PNPDE20070714_012103_000000362059_00461_28070_4587.N1	14-JUL-2007 01:21:03	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	28070	No
13	GOM_TRA_1PNPDE20070714_012452_000000402059_00461_28070_4588.N1	14-JUL-2007 01:24:52	Straylight	40.000	148	Alp Tuc	2.8780	4100.0	80	28070	No
14	GOM_TRA_1PNPDE20070714_012849_000000462059_00461_28070_4589.N1	14-JUL-2007 01:28:49	Straylight	46.000	45	Alp Pav	1.9400	26000.	92	28070	No
15	GOM_TRA_1PNPDE20070714_013610_000000382059_00461_28070_4590.N1	14-JUL-2007 01:36:10	Twilight	37.500	85	Kap Sco	2.4070	28000.	75	28070	No
16	GOM_TRA_1PNPDE20070714_013746_000000412059_00461_28070_4591.N1	14-JUL-2007 01:37:46	Bright	41.000	103	38Zet Sgr	2.6000	9700.0	82	28070	No
17	GOM_TRA_1PNPDE20070714_013927_000000392059_00461_28070_4592.N1	14-JUL-2007 01:39:27	Bright	38.500	137	22Lam Sgr	2.8240	4400.0	77	28070	No
18	GOM_TRA_1PNPDE20070714_014815_000000342059_00461_28070_4593.N1	14-JUL-2007 01:48:15	Bright	34.000	126	60Bet Oph	2.7700	4250.0	68	28070	No
19	GOM_TRA_1PNPDE20070714_015032_000000352059_00461_28070_4594.N1	14-JUL-2007 01:50:32	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	28070	No
20	GOM_TRA_1PNPDE20070714_015621_000000342059_00461_28070_4595.N1	14-JUL-2007 01:56:21	Bright	33.500	133	40Zet Her	2.8070	6000.0	67	28070	No
21	GOM_TRA_1PNPDE20070714_020129_000000372059_00461_28070_4596.N1	14-JUL-2007 02:01:29	Bright	37.000	69	33Gam Dra	2.2310	3800.0	74	28070	No
22	GOM_TRA_1PNPDE20070714_020435_000000362059_00461_28070_4597.N1	14-JUL-2007 02:04:35	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	28070	No
23	GOM_TRA_1PNPDE20070714_020847_000000322059_00461_28070_4598.N1	14-JUL-2007 02:08:47	Bright	32.000	60	7Bet UMi	2.0810	3950.0	64	28070	No
24	GOM_TRA_1PNPDE20070714_021228_000000342059_00461_28070_4599.N1	14-JUL-2007 02:12:28	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	28070	No
25	GOM_TRA_1PNPDE20070714_023335_000000502059_00461_28070_4756.N1	14-JUL-2007 02:33:35	Twilight	50.000	13	87Alp Tau	0.86700	3800.0	100	28070	No
26	GOM_TRA_1PNPDE20070714_023955_000000382059_00461_28070_4757.N1	14-JUL-2007 02:39:55	Dark	37.500	7	19Bet Ori	0.10000	14000.	75	28070	No
27	GOM_TRA_1PNPDE20070714_024251_000000472059_00461_28070_4758.N1	14-JUL-2007 02:42:51	Dark	47.000	165	34Gam Eri	2.9500	3200.0	94	28070	No
28	GOM_TRA_1PNPDE20070714_025756_000000452059_00462_28071_4759.N1	14-JUL-2007 02:57:56	Dark	44.500	9	Alp Eri	0.45300	24000.	89	28071	No
29	GOM_TRA_1PNPDE20070714_030139_000000372059_00462_28071_4760.N1	14-JUL-2007 03:01:39	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	28071	No
30	GOM_TRA_1PNPDE20070714_030528_000000442059_00462_28071_4761.N1	14-JUL-2007 03:05:28	Straylight	44.000	148	Alp Tuc	2.8780	4100.0	88	28071	No
31	GOM_TRA_1PNPDE20070714_030926_000000412059_00462_28071_4762.N1	14-JUL-2007 03:09:26	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	28071	No
32	GOM_TRA_1PNPDE20070714_031646_000000402059_00462_28071_4763.N1	14-JUL-2007 03:16:46	Twilight	40.000	85	Kap Sco	2.4070	28000.	80	28071	No
33	GOM_TRA_1PNPDE20070714_031822_000000422059_00462_28071_4764.N1	14-JUL-2007 03:18:22	Bright	41.500	103	38Zet Sgr	2.6000	9700.0	83	28071	No
34	GOM_TRA_1PNPDE20070714_032003_000000392059_00462_28071_4765.N1	14-JUL-2007 03:20:03	Bright	39.000	137	22Lam Sgr	2.8240	4400.0	78	28071	No
35	GOM_TRA_1PNPDE20070714_032851_000000342059_00462_28071_4766.N1	14-JUL-2007 03:28:51	Bright	34.000	126	60Bet Oph	2.7700	4250.0	68	28071	No
36	GOM_TRA_1PNPDE20070714_033108_000000362059_00462_28071_4767.N1	14-JUL-2007 03:31:08	Bright	35.500	59	55Alp Oph	2.0800	8900.0	71	28071	No
37	GOM_TRA_1PNPDE20070714_033658_000000342059_00462_28071_4768.N1	14-JUL-2007 03:36:58	Bright	34.000	133	40Zet Her	2.8070	6000.0	68	28071	No
38	GOM_TRA_1PNPDE20070714_034205_000000382059_00462_28071_4769.N1	14-JUL-2007 03:42:05	Bright	37.500	69	33Gam Dra	2.2310	3800.0	75	28071	No
39	GOM_TRA_1PNPDE20070714_034511_000000332059_00462_28071_4770.N1	14-JUL-2007 03:45:11	Bright	33.000	119	14Eta Dra	2.7270	4700.0	66	28071	No
40	GOM_TRA_1PNPDE20070714_034923_000000342059_00462_28071_4771.N1	14-JUL-2007 03:49:23	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	28071	No
41	GOM_TRA_1PNPDE20070714_035304_000000322059_00462_28071_4772.N1	14-JUL-2007 03:53:04	Bright	31.500	49	1Alp UMi	1.9900	6300.0	63	28071	No
42	GOM_TRA_1PNPDE20070714_041411_000000522059_00462_28071_4907.N1	14-JUL-2007 04:14:11	Twilight	52.000	13	87Alp Tau	0.86700	3800.0	104	28071	No
43	GOM_TRA_1PNPDE20070714_042032_000000392059_00462_28071_4908.N1	14-JUL-2007 04:20:32	Dark	39.000	7	19Bet Ori	0.10000	14000.	78	28071	No
44	GOM_TRA_1PNPDE20070714_042328_000000452059_00462_28071_4909.N1	14-JUL-2007 04:23:28	Dark	44.500	165	34Gam Eri	2.9500	3200.0	89	28071	No
45	GOM_TRA_1PNPDE20070714_043832_000000522059_00463_28072_4910.N1	14-JUL-2007 04:38:32	Dark	51.500	9	Alp Eri	0.45300	24000.	103	28072	No
46	GOM_TRA_1PNPDE20070714_044215_000000372059_00463_28072_4911.N1	14-JUL-2007 04:42:15	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	28072	No
47	GOM_TRA_1PNPDE20070714_044605_000000442059_00463_28072_4912.N1	14-JUL-2007 04:46:05	Straylight	43.500	148	Alp Tuc	2.8780	4100.0	87	28072	No
48	GOM_TRA_1PNPDE20070714_045002_000000402059_00463_28072_4913.N1	14-JUL-2007 04:50:02	Straylight	40.000	45	Alp Pav	1.9400	26000.	80	28072	No
49	GOM_TRA_1PNPDE20070714_045722_000000412059_00463_28072_4914.N1	14-JUL-2007 04:57:22	Twilight	40.500	85	Kap Sco	2.4070	28000.	81	28072	No
50	GOM_TRA_1PNPDE20070714_045858_000000402059_00463_28072_4915.N1	14-JUL-2007 04:58:58	Bright	39.500	103	38Zet Sgr	2.6000	9700.0	79	28072	No

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



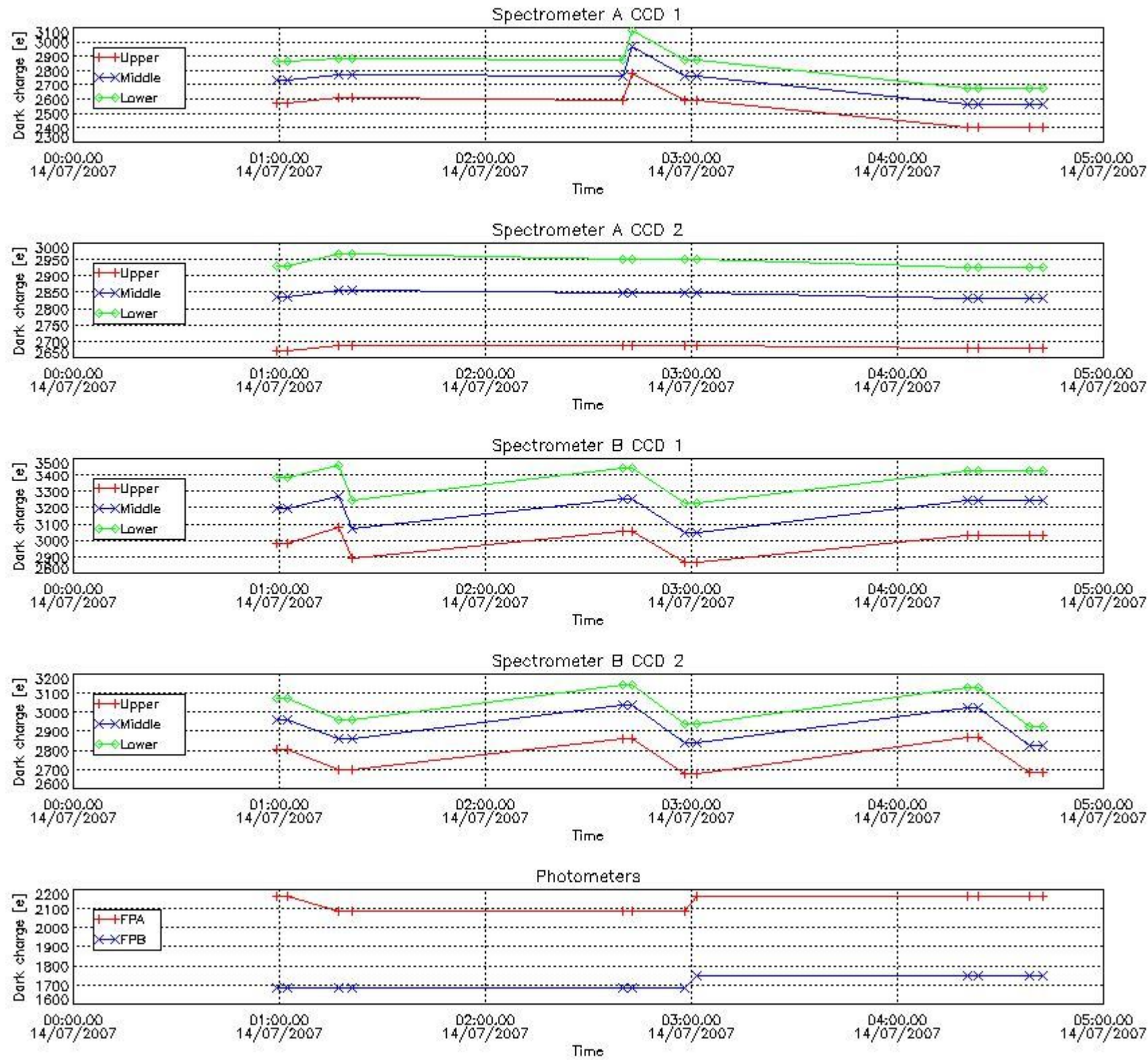
4. Overview of dark signal processing per product

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 All products used the DSA observation for the DC computation

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



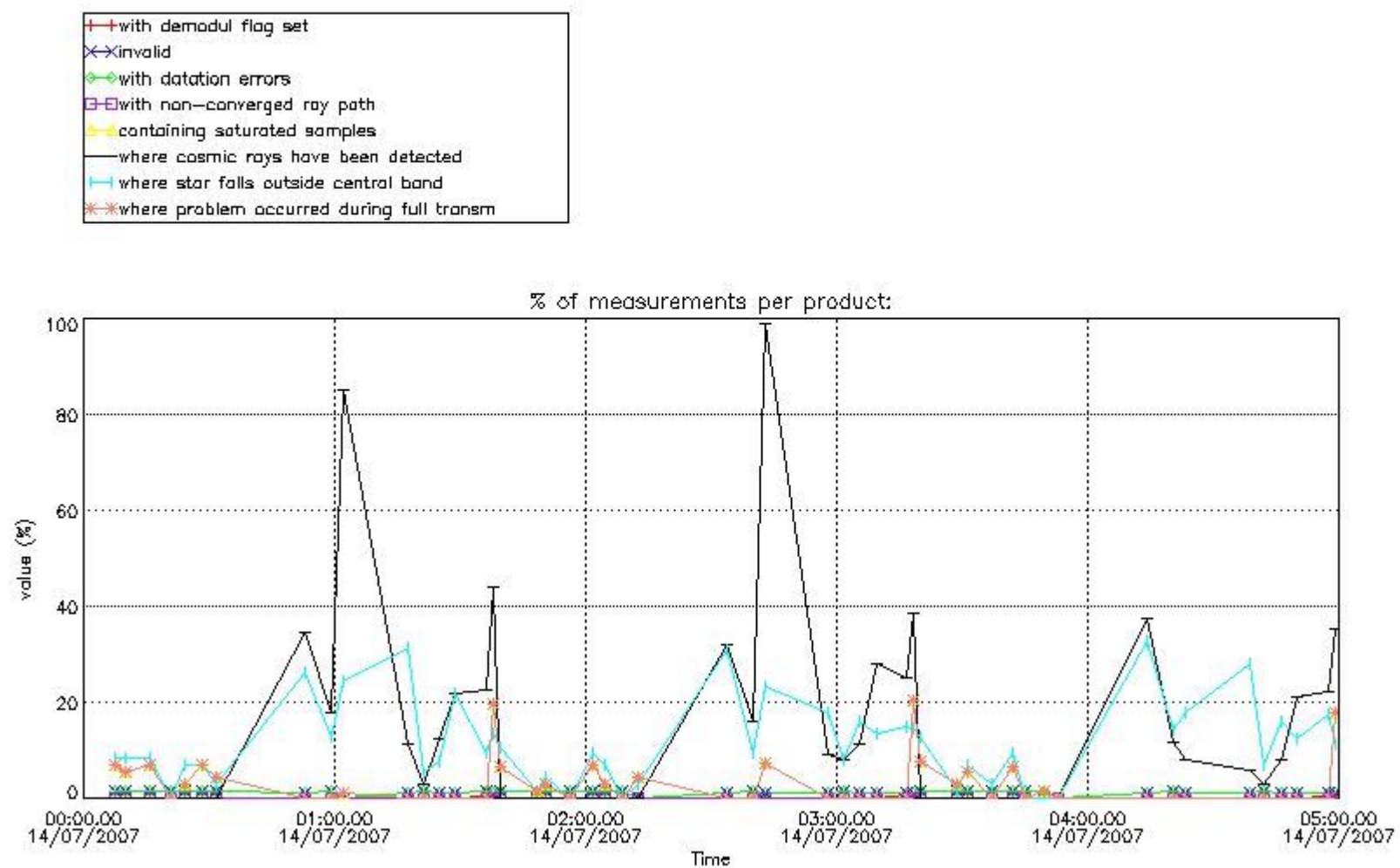
5. Demodulation flag and quality information monitoring

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.

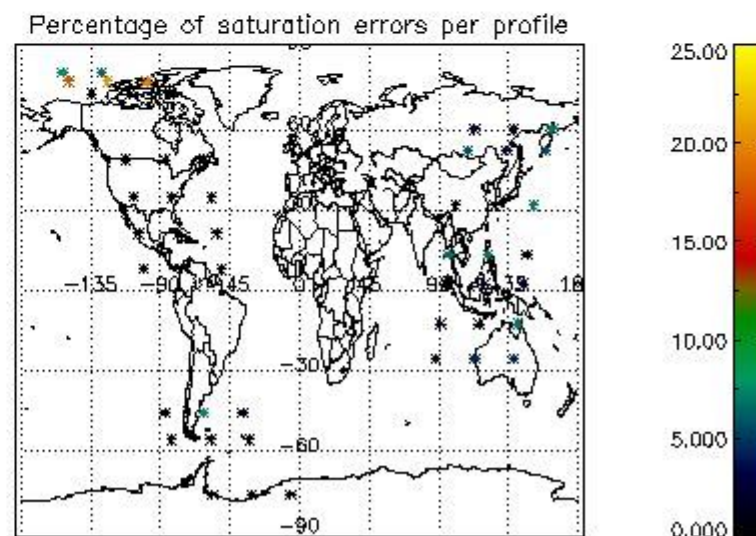
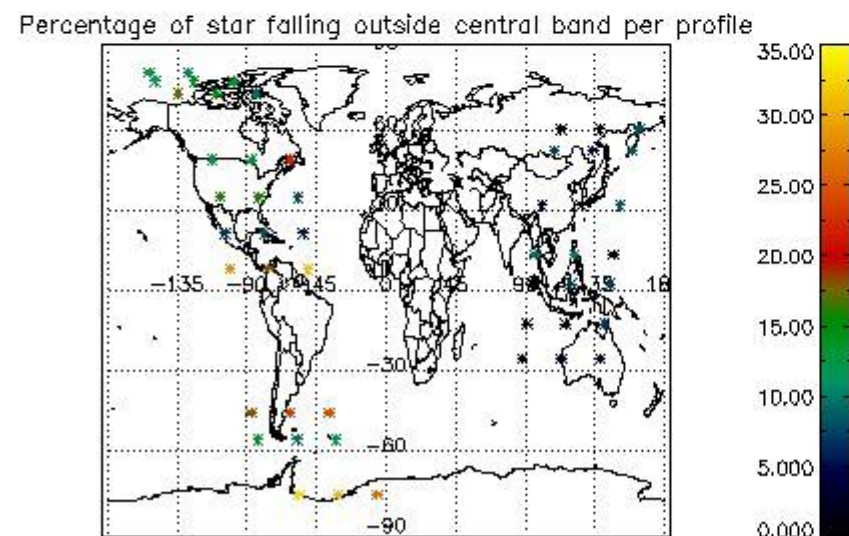
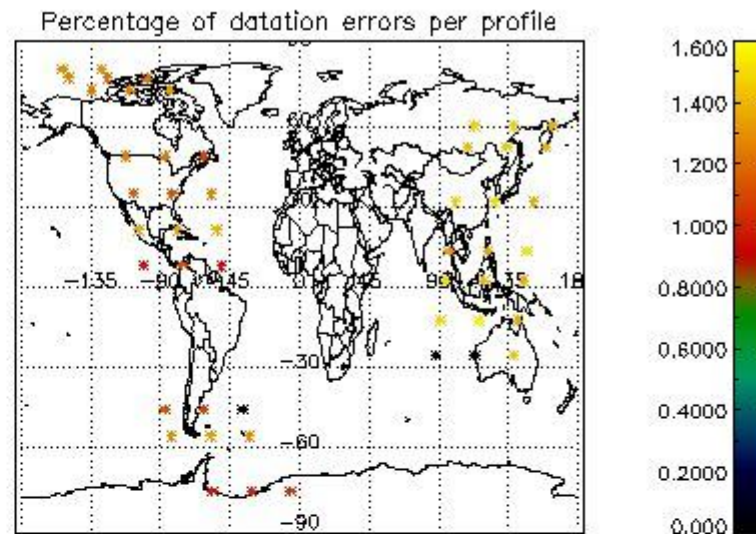
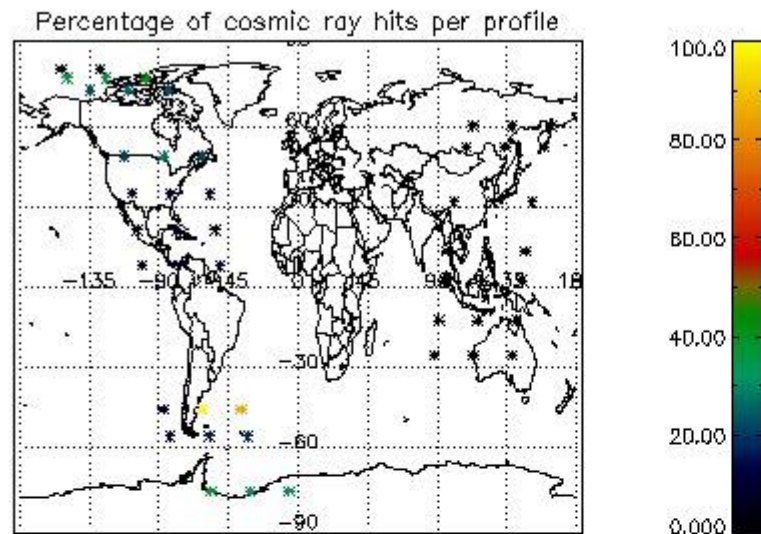
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	12.0000 %
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)



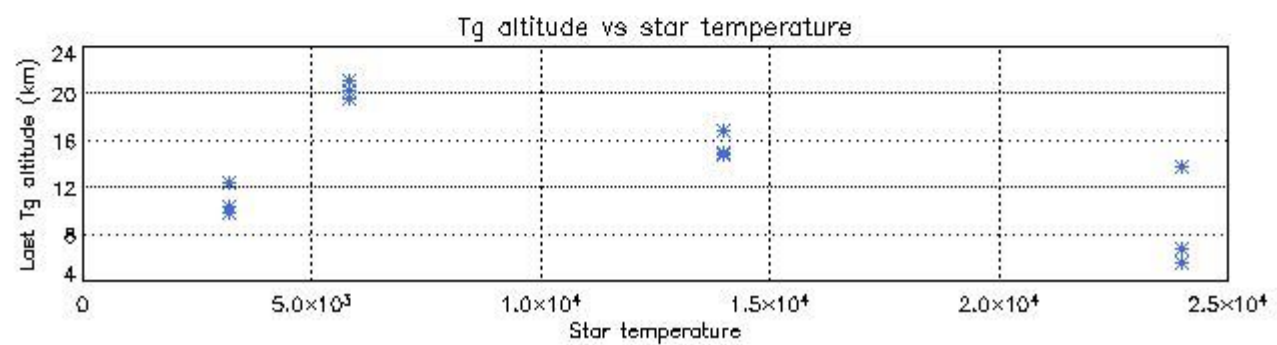
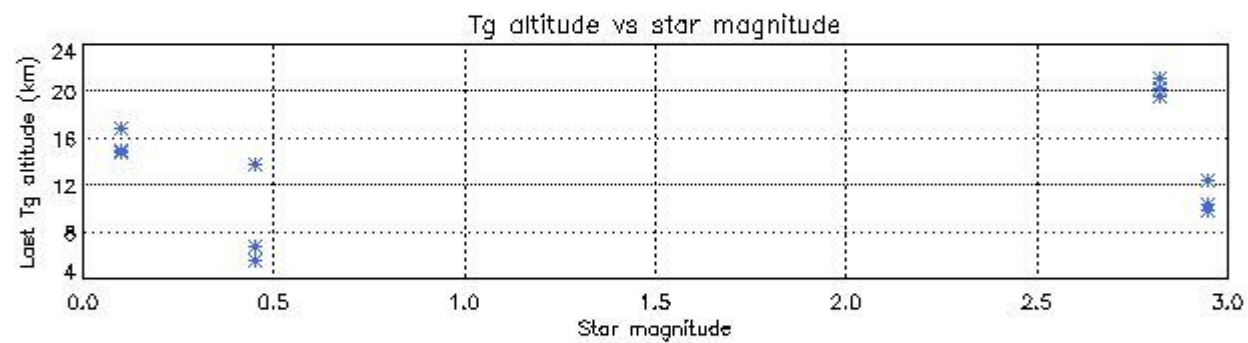
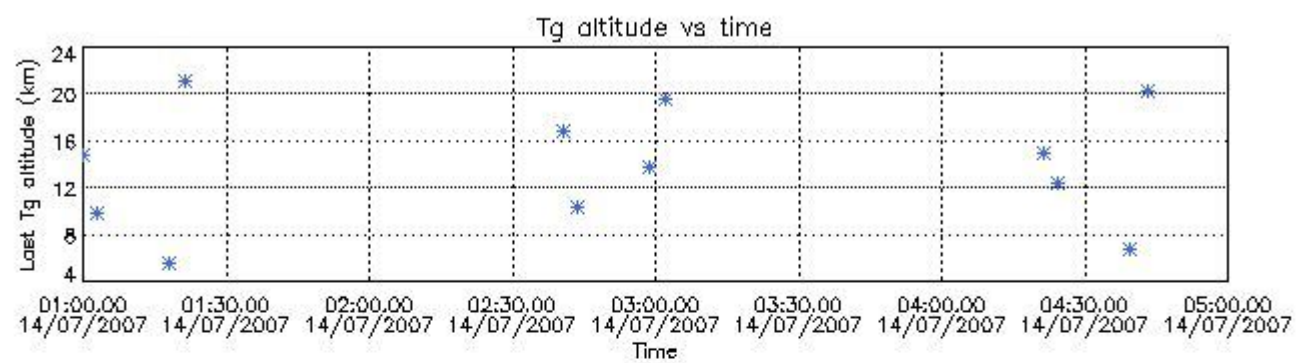
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.818	22.070	6.5853
St. deviation:	5.1099	4.4195	1.5011
Maximum:	21.127	31.974	8.0831
Minimum:	5.5293	14.597	5.0810
Number of data:	12.000	26.000	3.0000

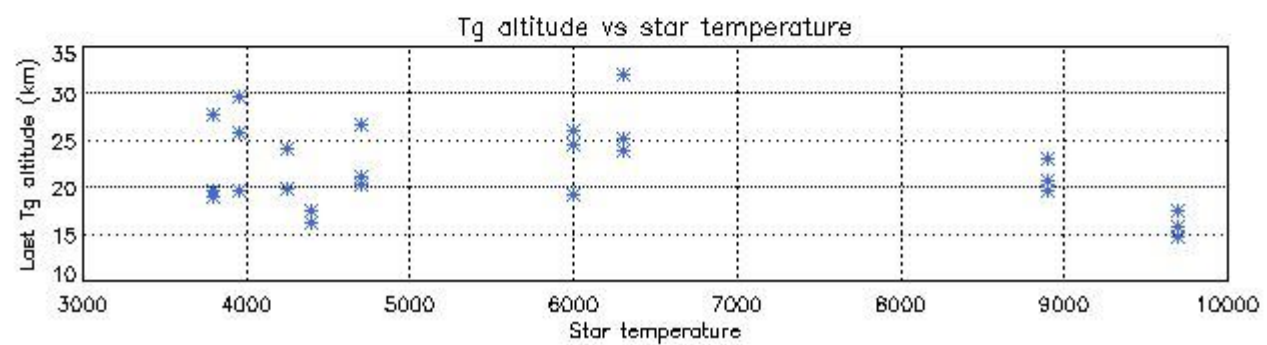
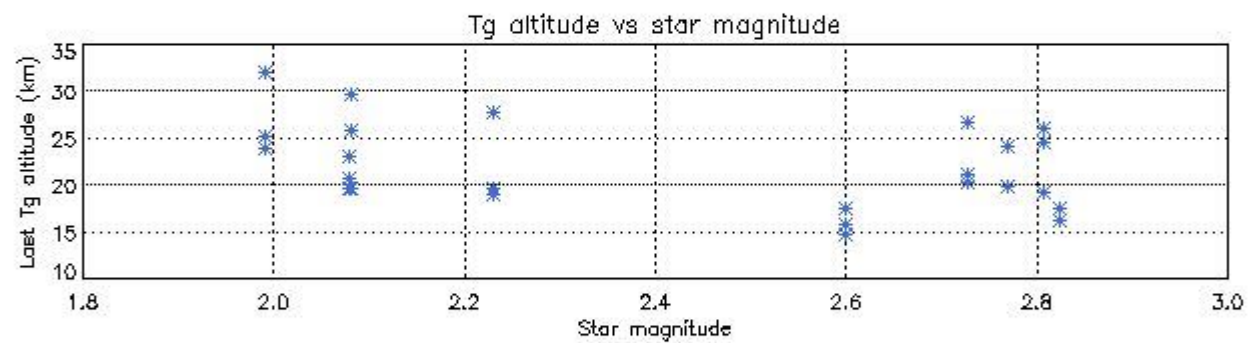
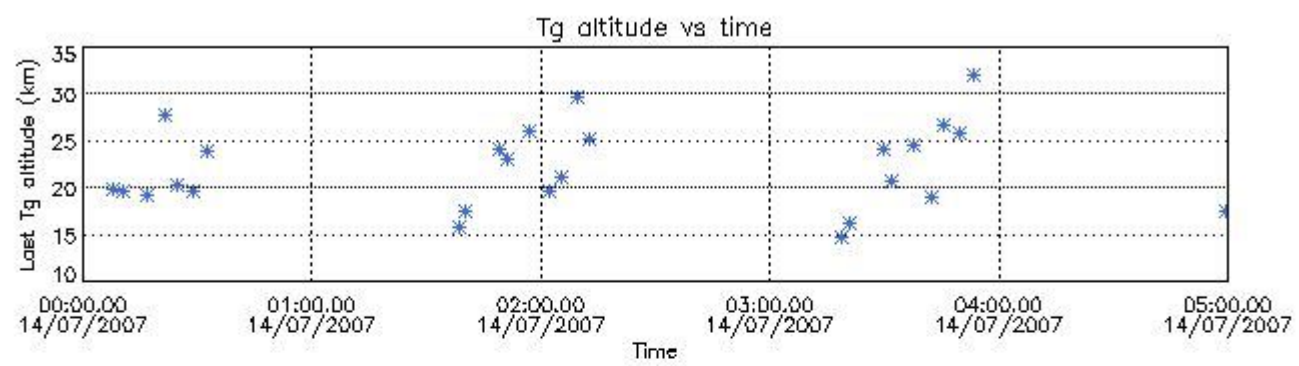
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



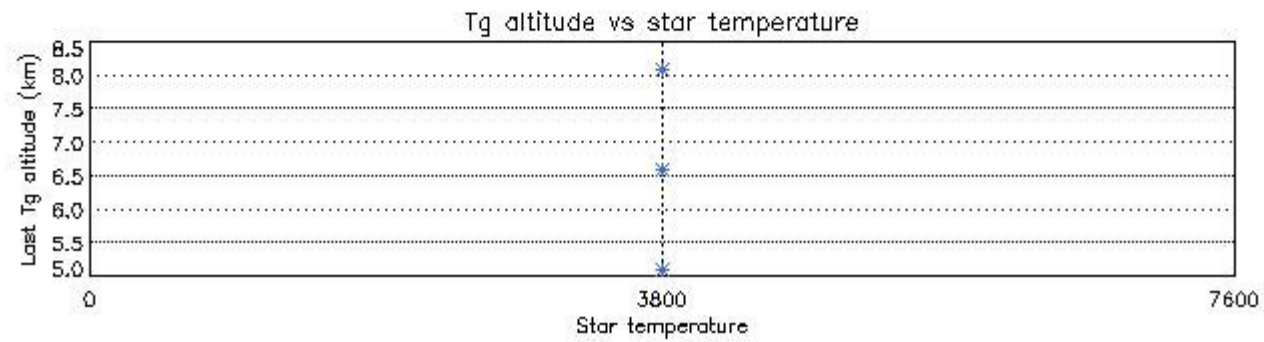
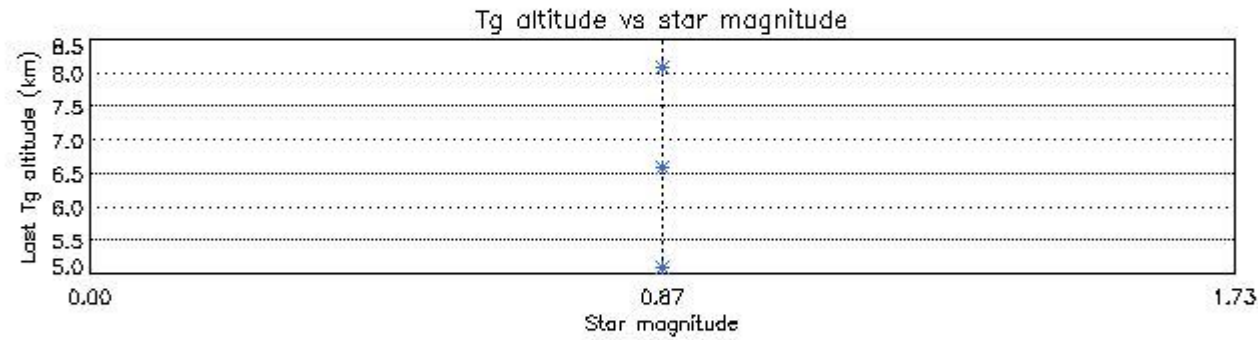
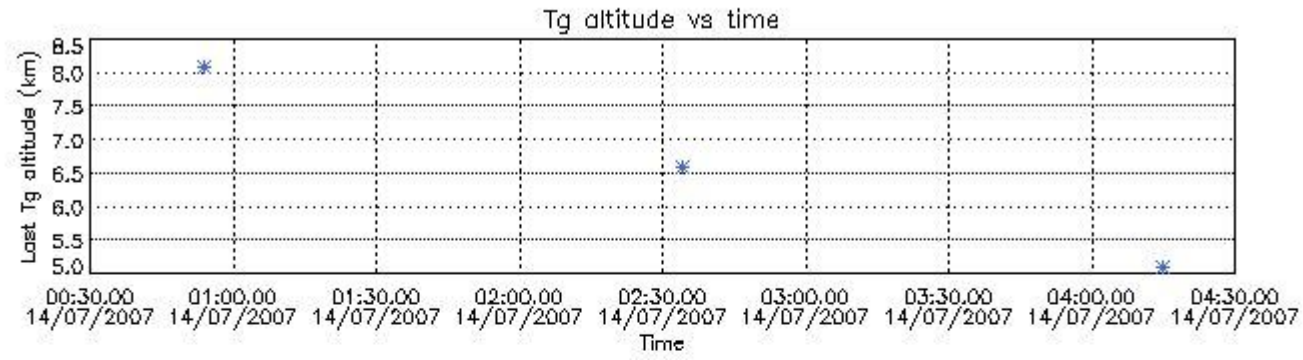
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

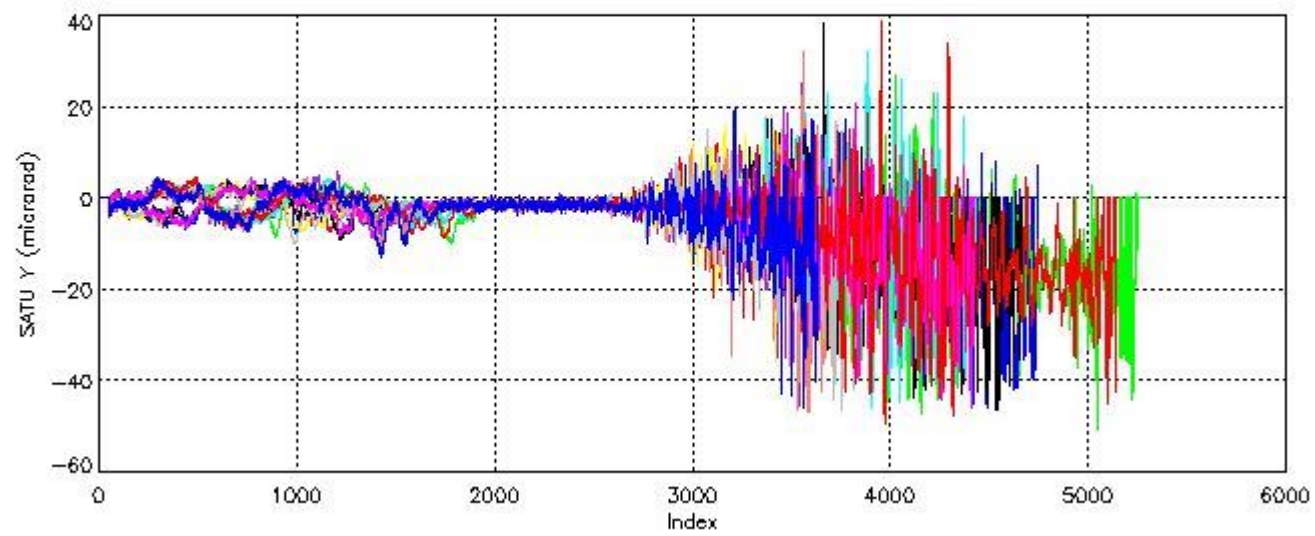
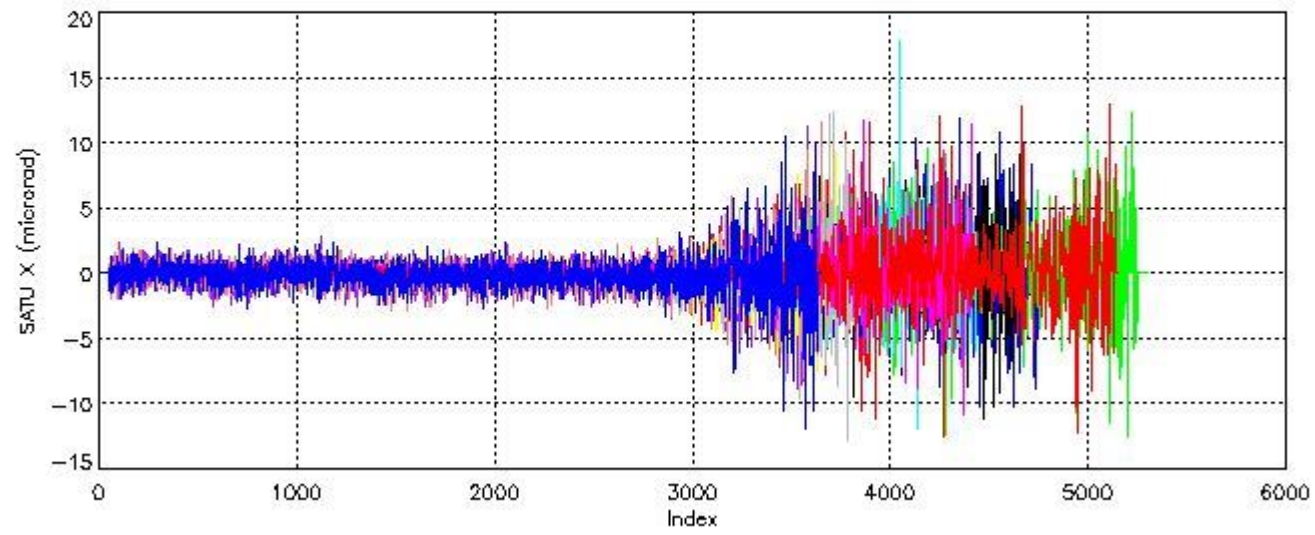


7. Star Acquisition and Tracking Unit (SATU)

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:	-0.0083365	-1.0431	0.031305	-1.0820
St. deviation:	0.37736	2.4320	0.63018	2.5844
Maximum:	2.4000	4.5000	2.9000	5.8000
Minimum:	-2.7000	-8.5000	-3.8000	-9.3000

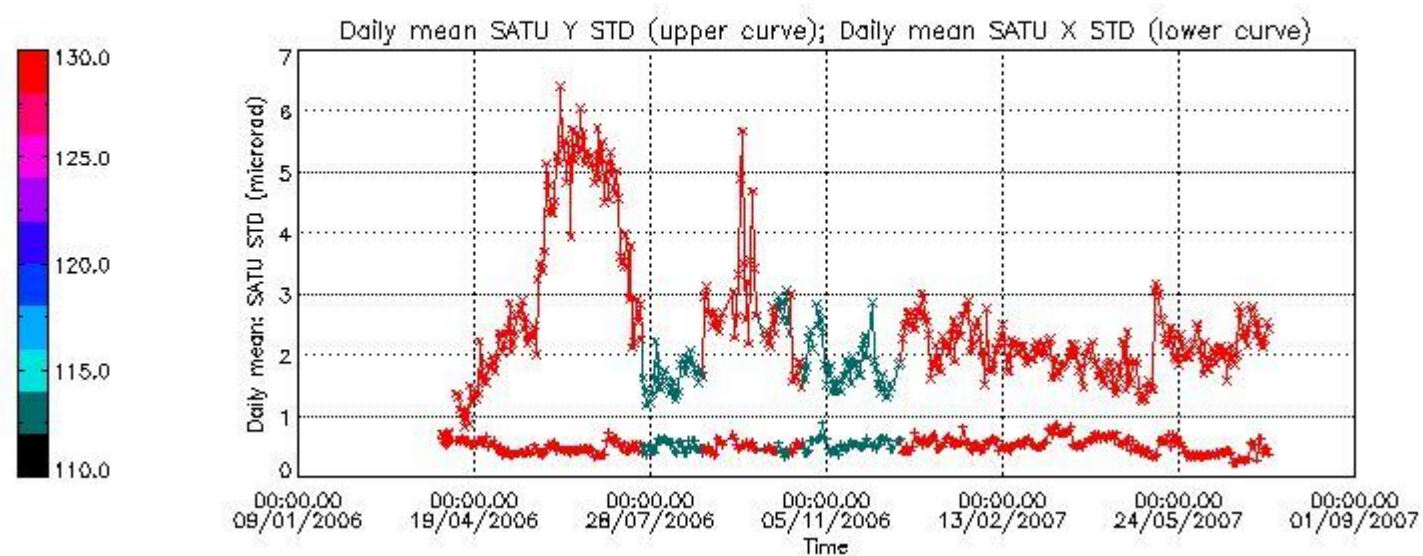
Number of data:	10800.	10800.	21450.	21450.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

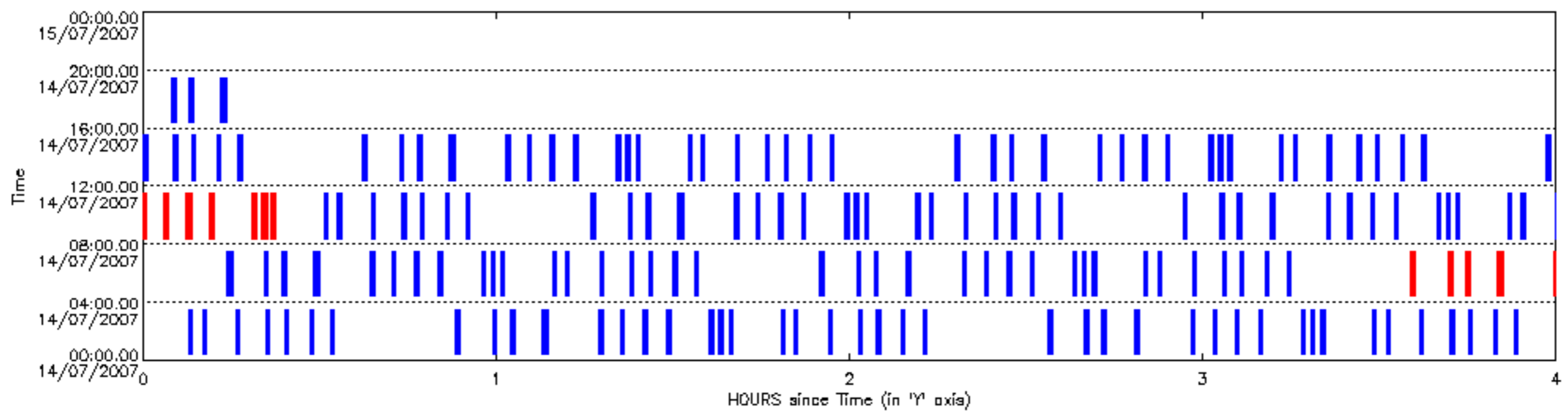
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

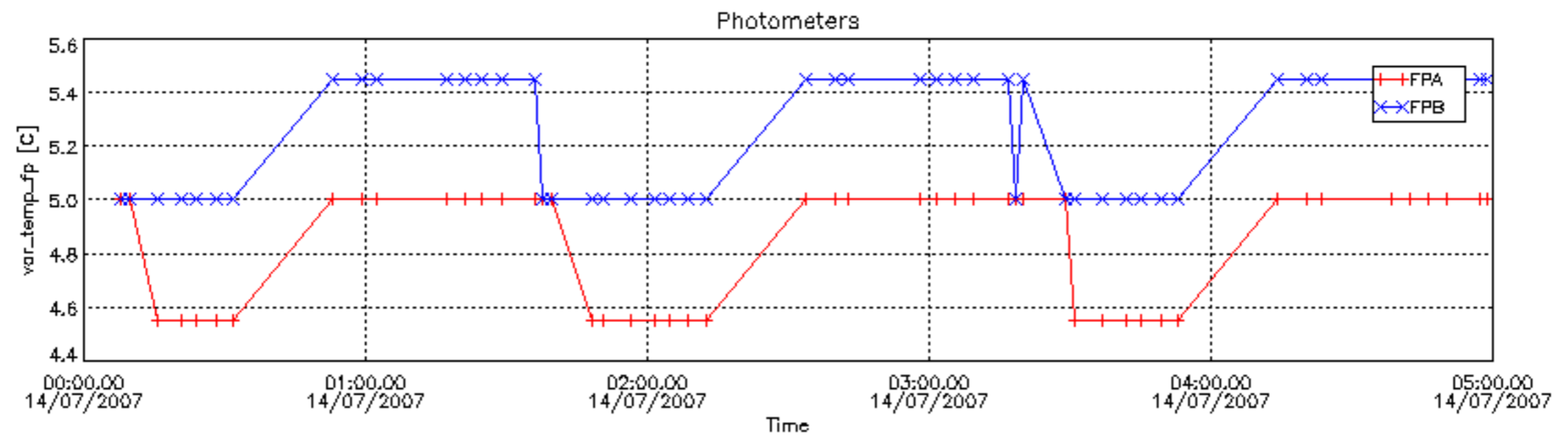
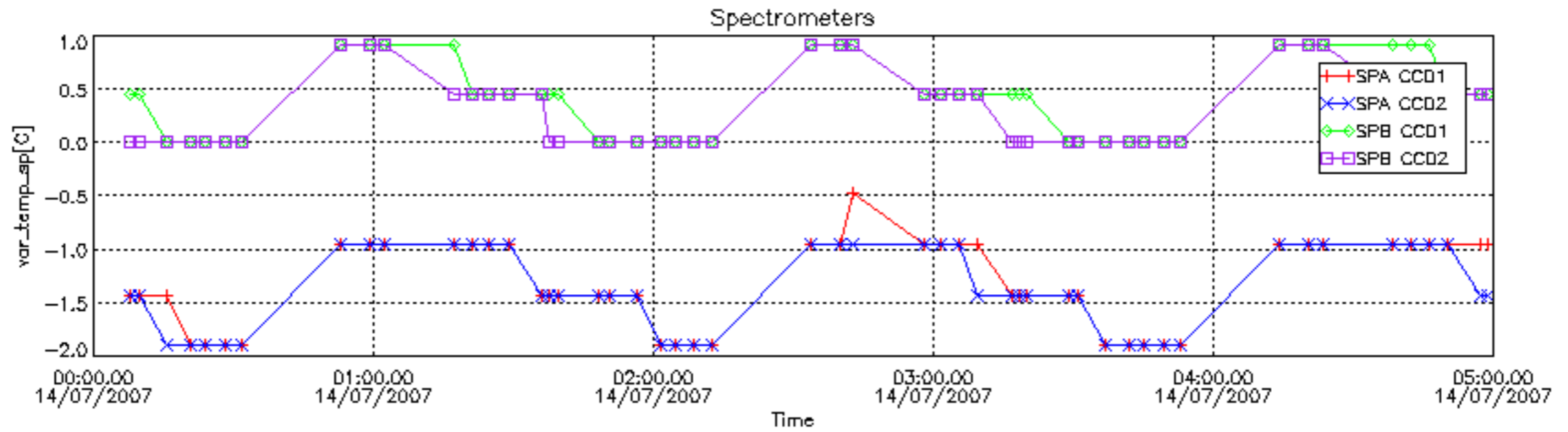


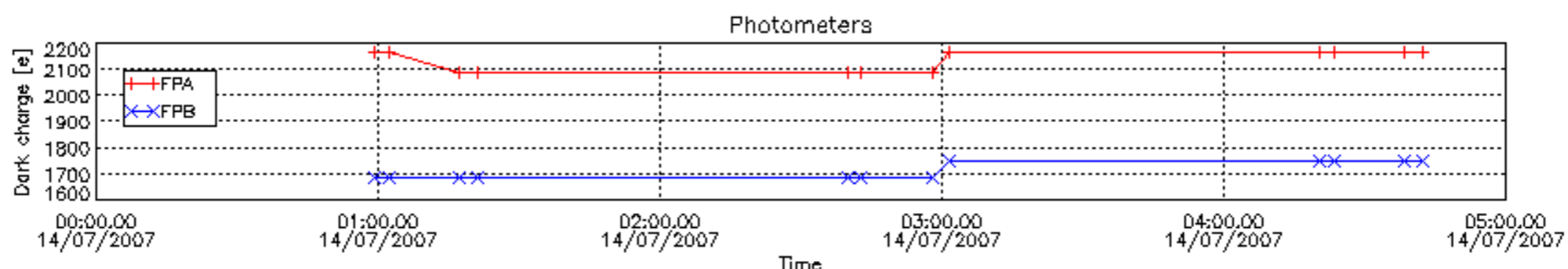
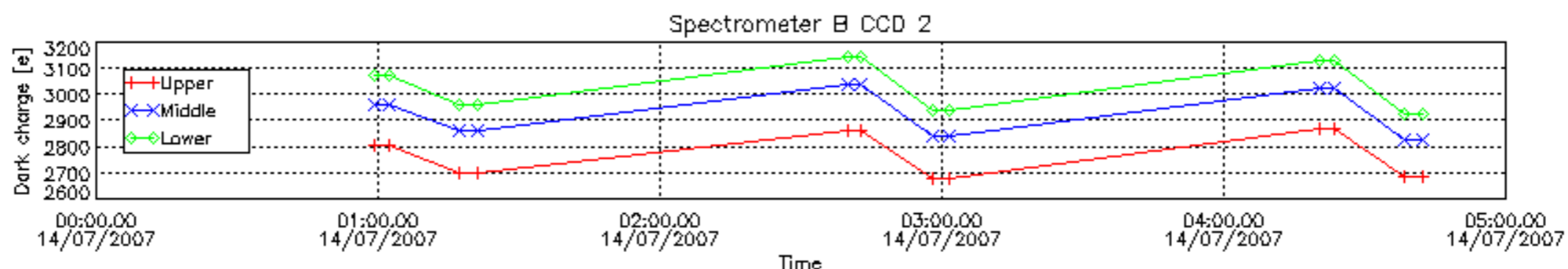
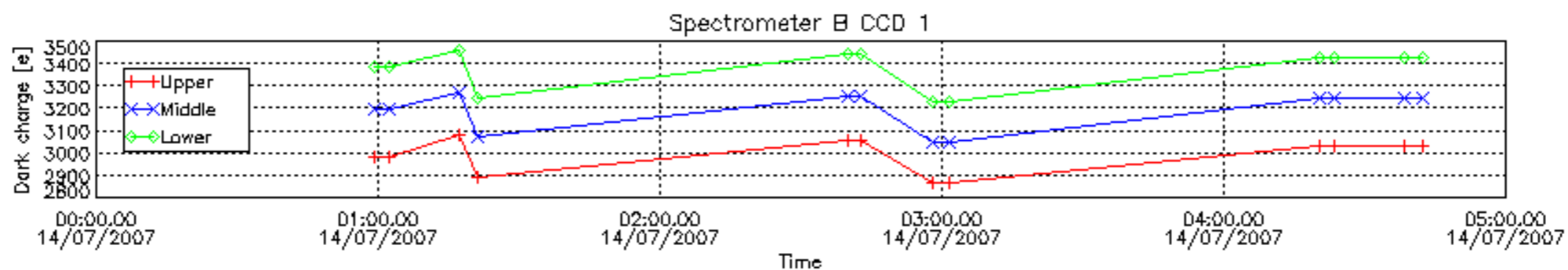
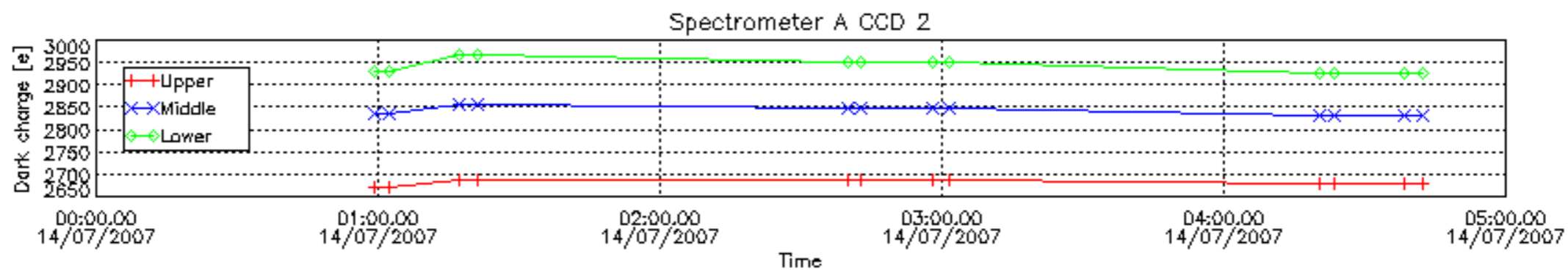
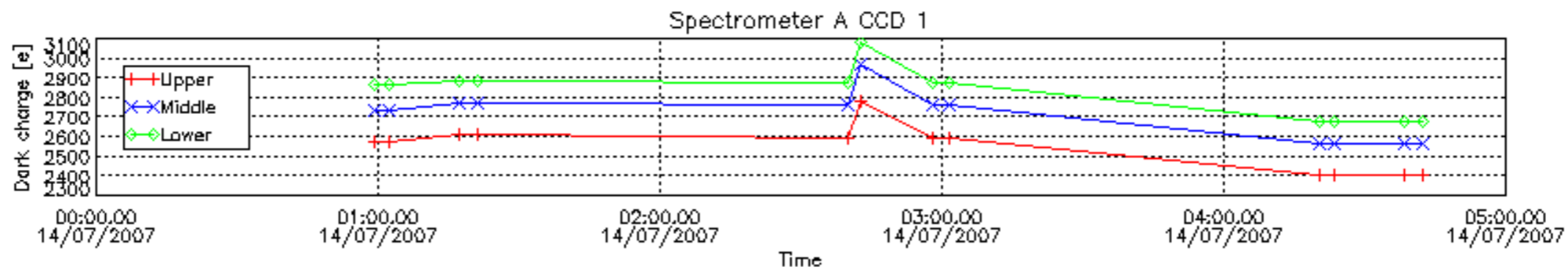
8. Auxiliary Data Files used for the production reported in section 2.4

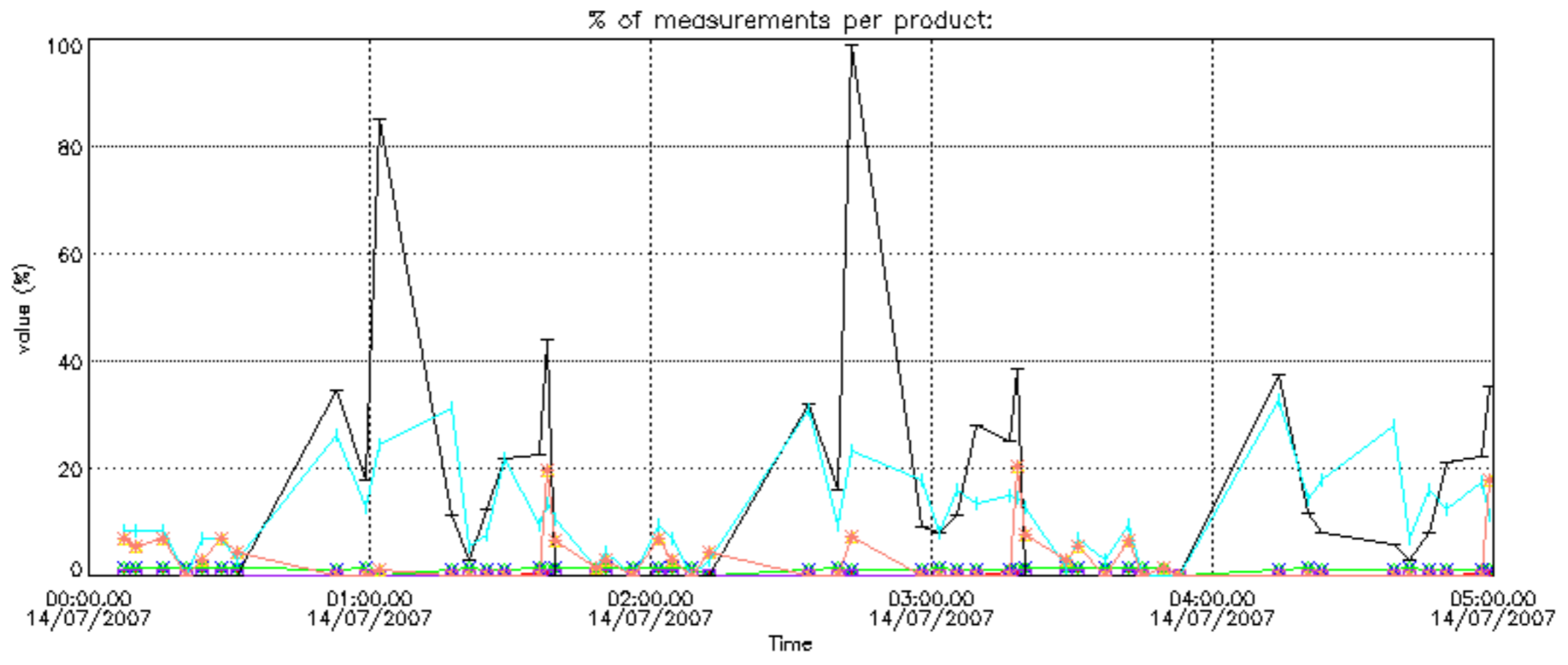
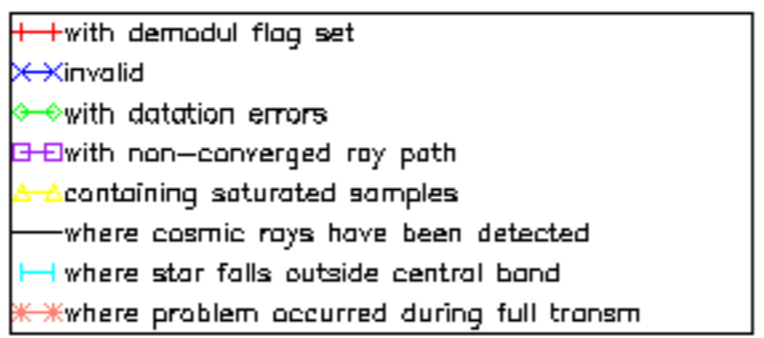
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	14-JUL-2007 00:07:39
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070713_071616_20070710_000000_20100101_000000	1	14-JUL-2007 00:07:39
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	14-JUL-2007 00:07:39
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	14-JUL-2007 00:07:39
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	14-JUL-2007 00:07:39
ECMWF_FILE	AUX_ECF_AXNECM20070713_061112_20070713_210000_20070714_090000	1	14-JUL-2007 00:07:39
ECMWF_FILE	AUX_ECF_AXNECM20070713_182111_20070714_030000_20070714_150000	42	14-JUL-2007 04:14:11
OPTIONAL_ECMWF_FILE	MISSING	1	14-JUL-2007 00:07:39
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070713_214024_000057382059_00458_28067_3771.N1	1	14-JUL-2007 00:07:39
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070713_232121_000057382059_00459_28068_3772.N1	11	14-JUL-2007 01:17:19
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070714_010218_000041442059_00460_28069_3773.N1	25	14-JUL-2007 02:33:35
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070714_021122_000057382059_00461_28070_3774.N1	42	14-JUL-2007 04:14:11

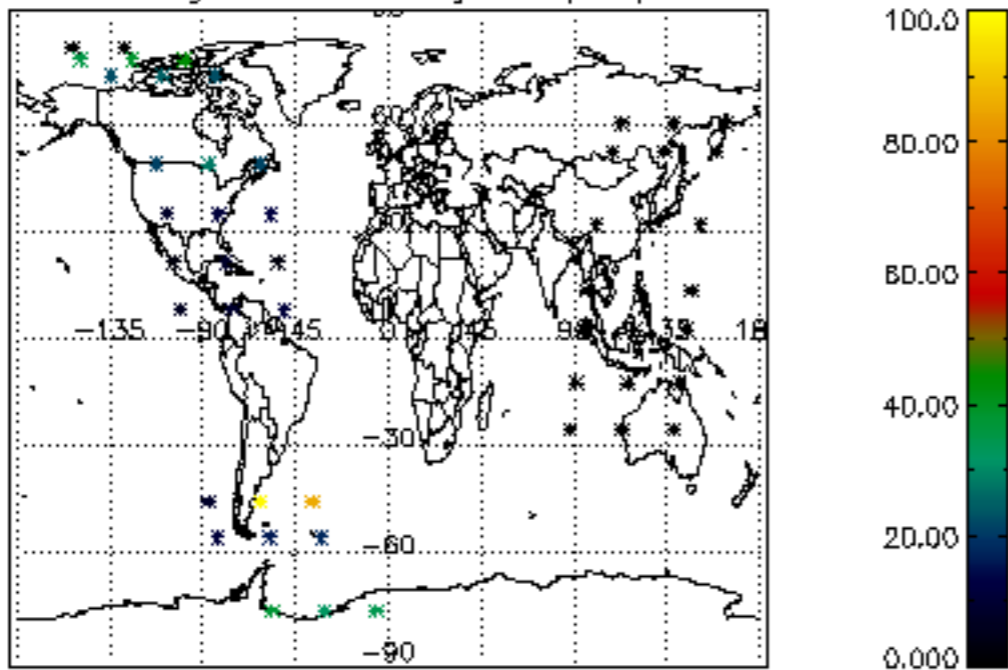




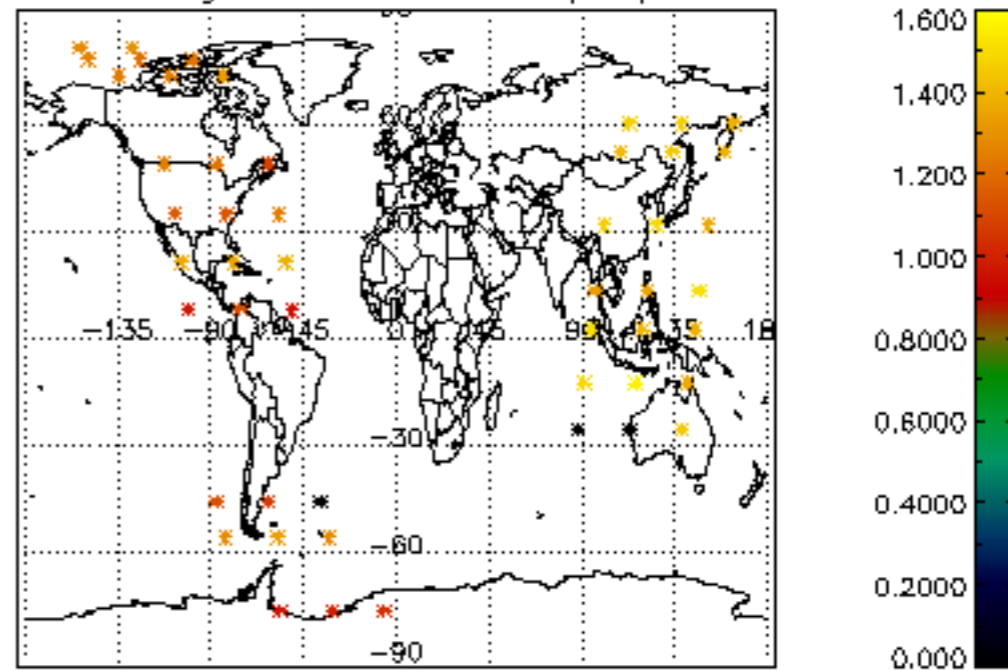




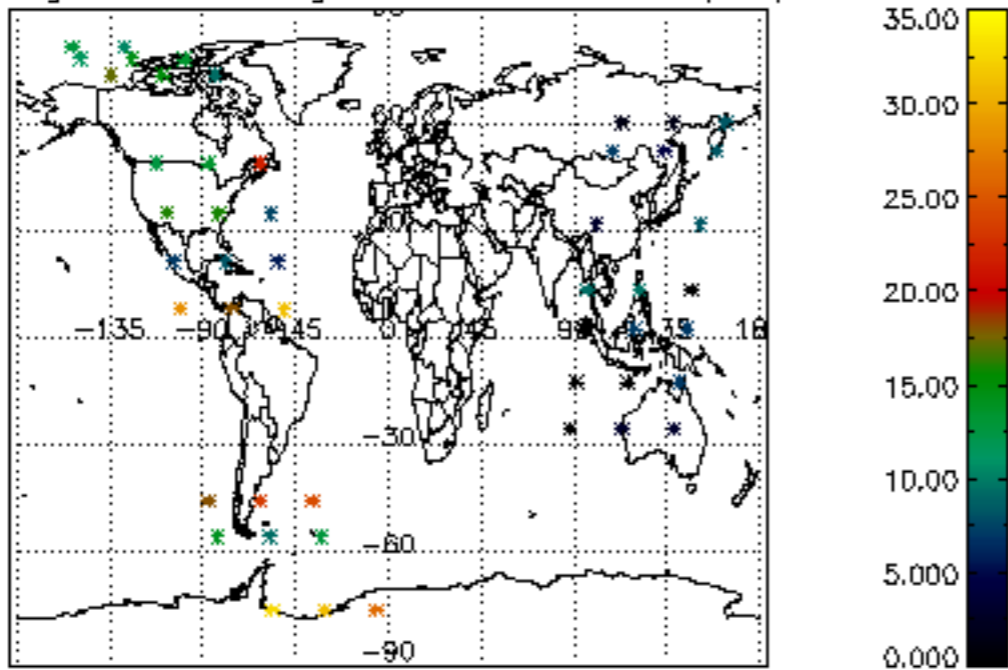
Percentage of cosmic ray hits per profile



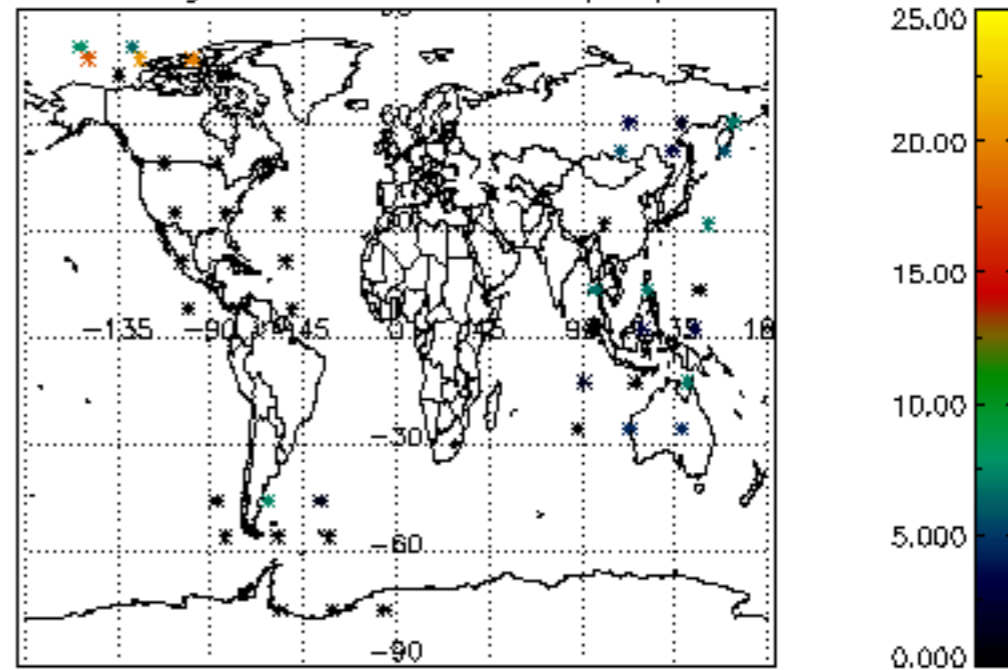
Percentage of datation errors per profile



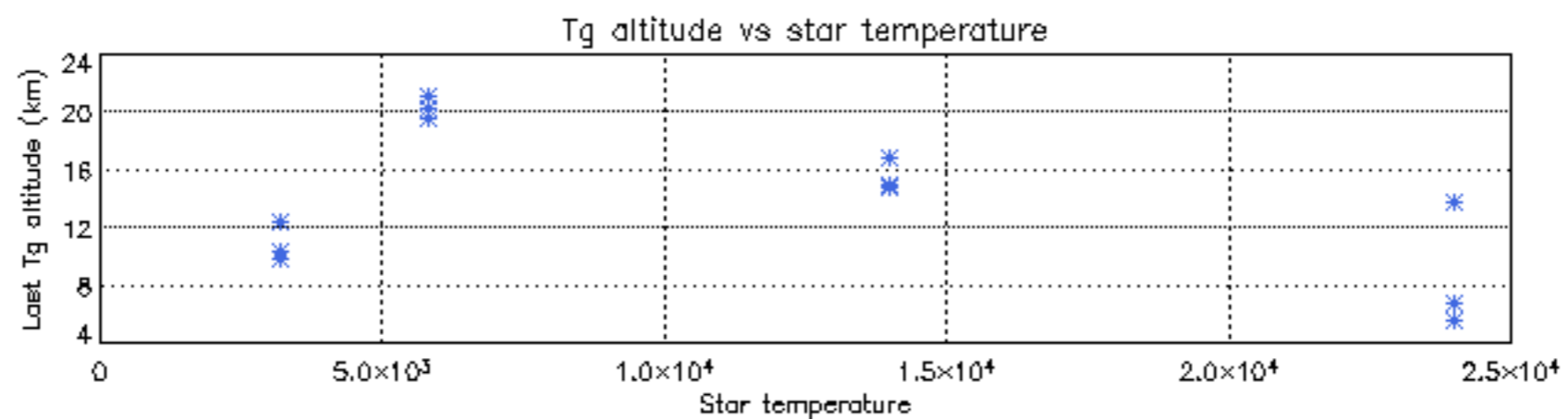
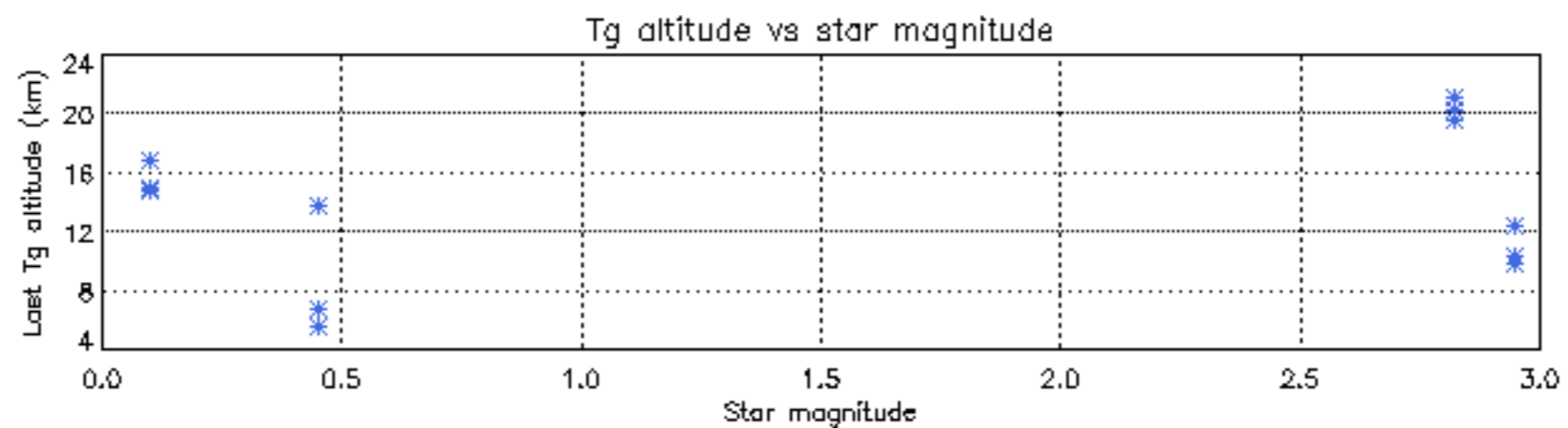
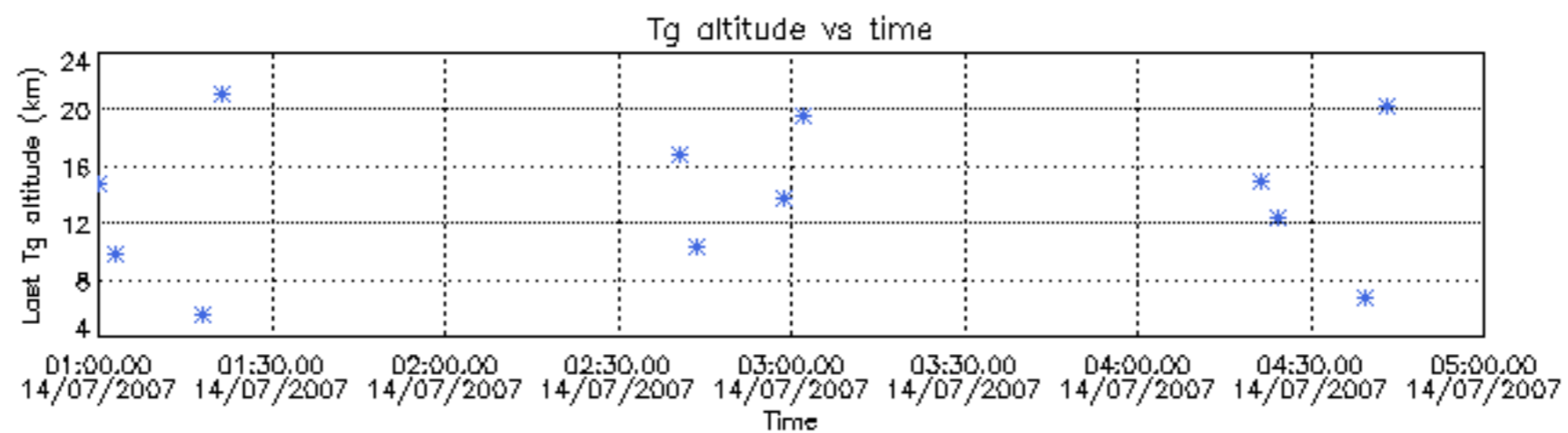
Percentage of star falling outside central band per profile



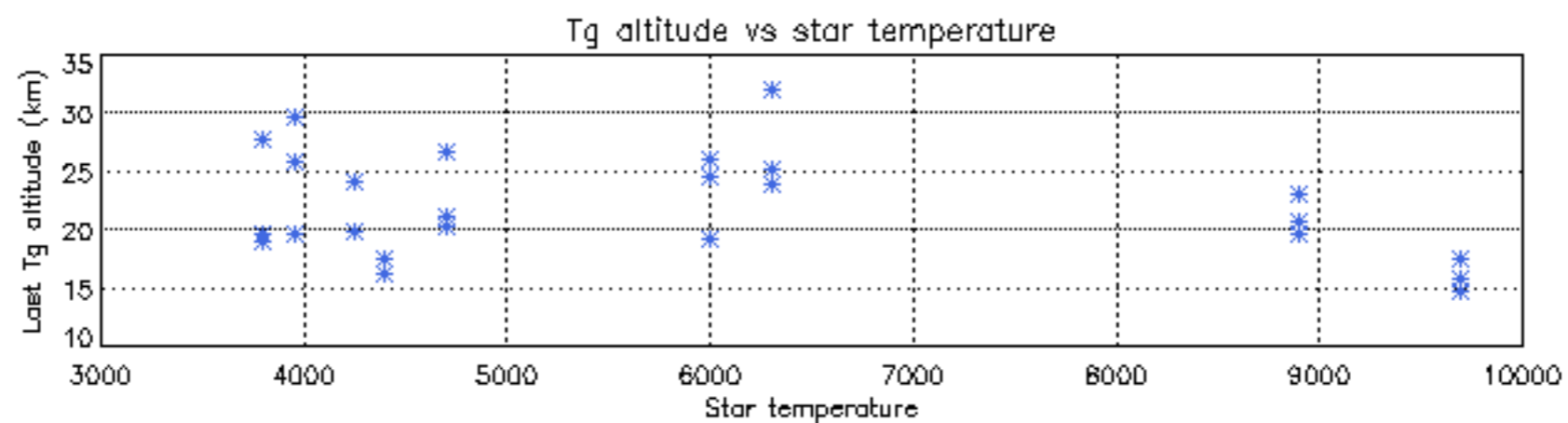
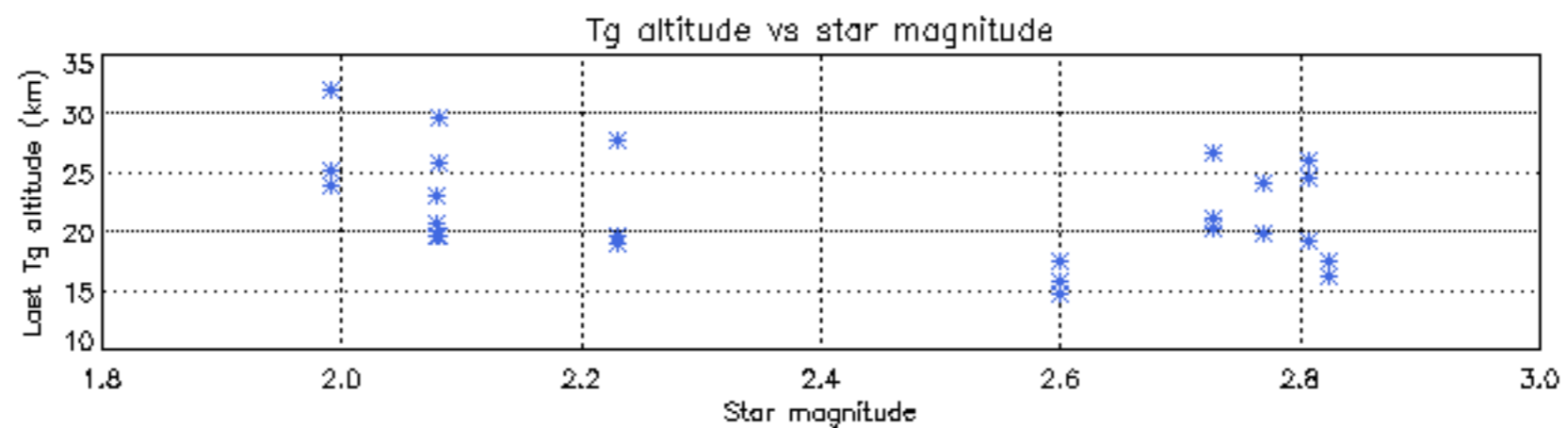
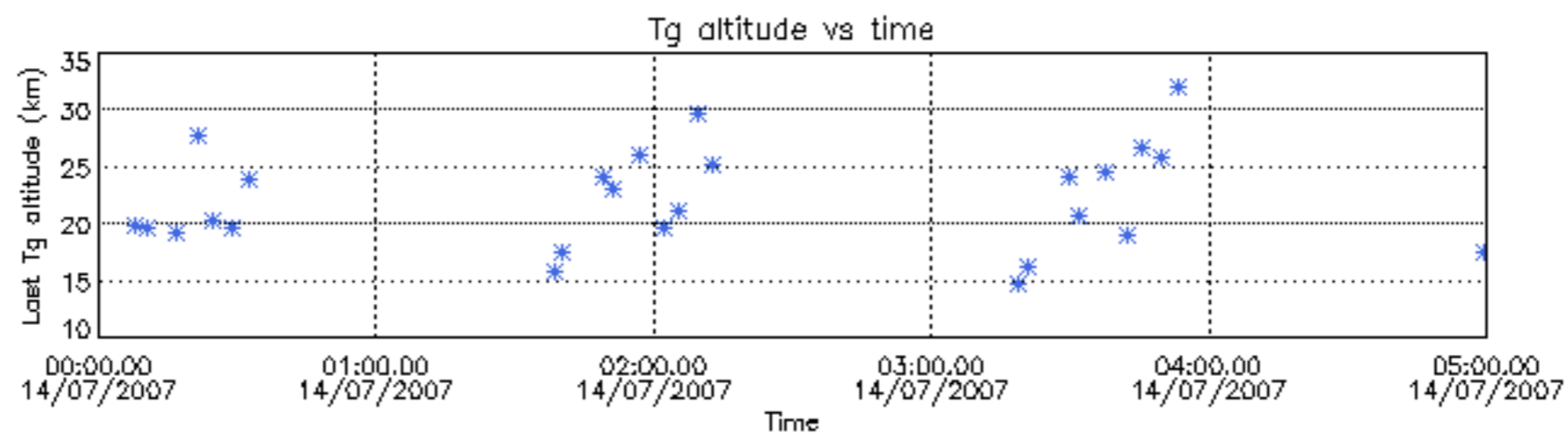
Percentage of saturation errors per profile



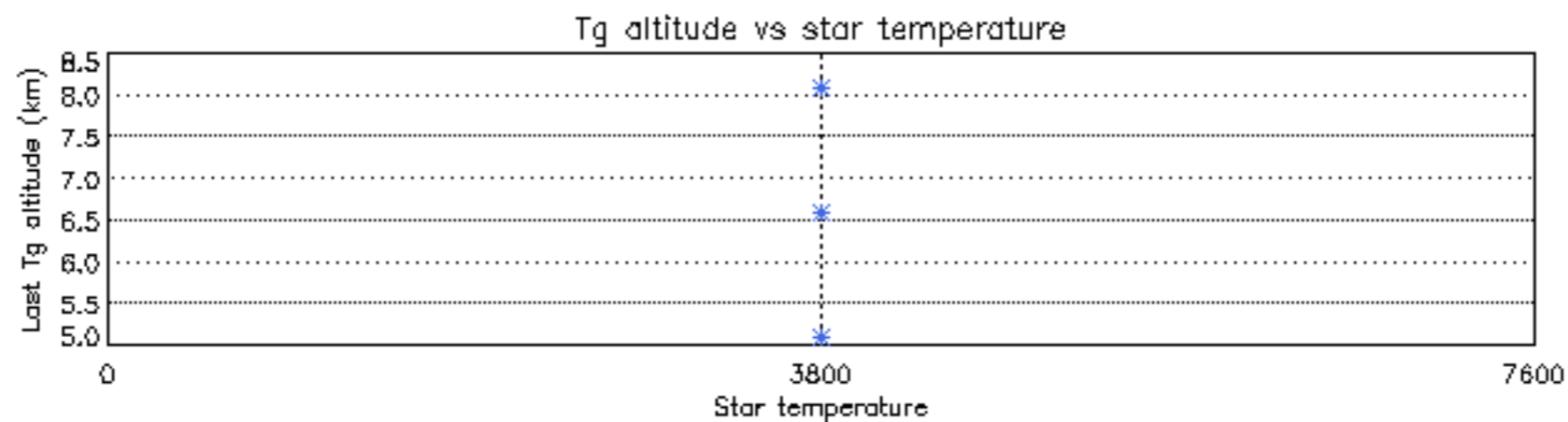
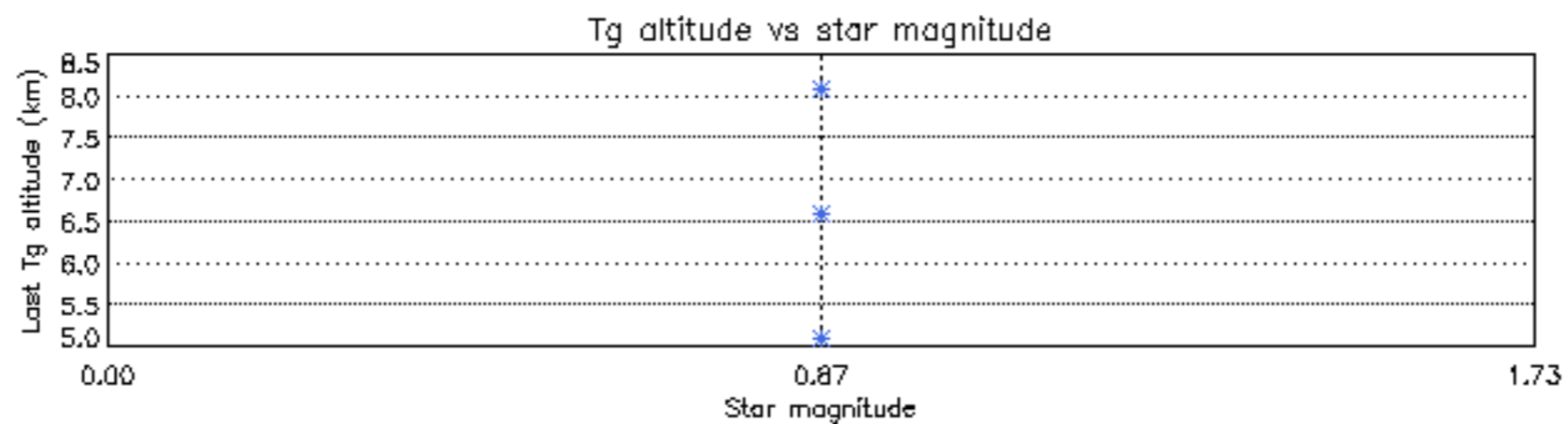
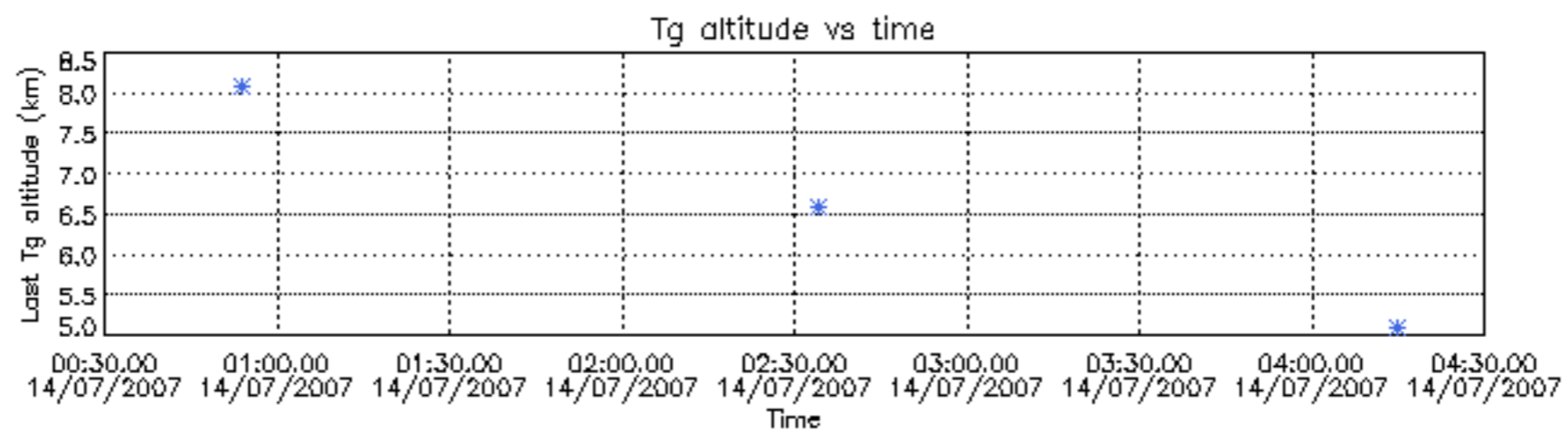
Tangent altitude at which the star is lost

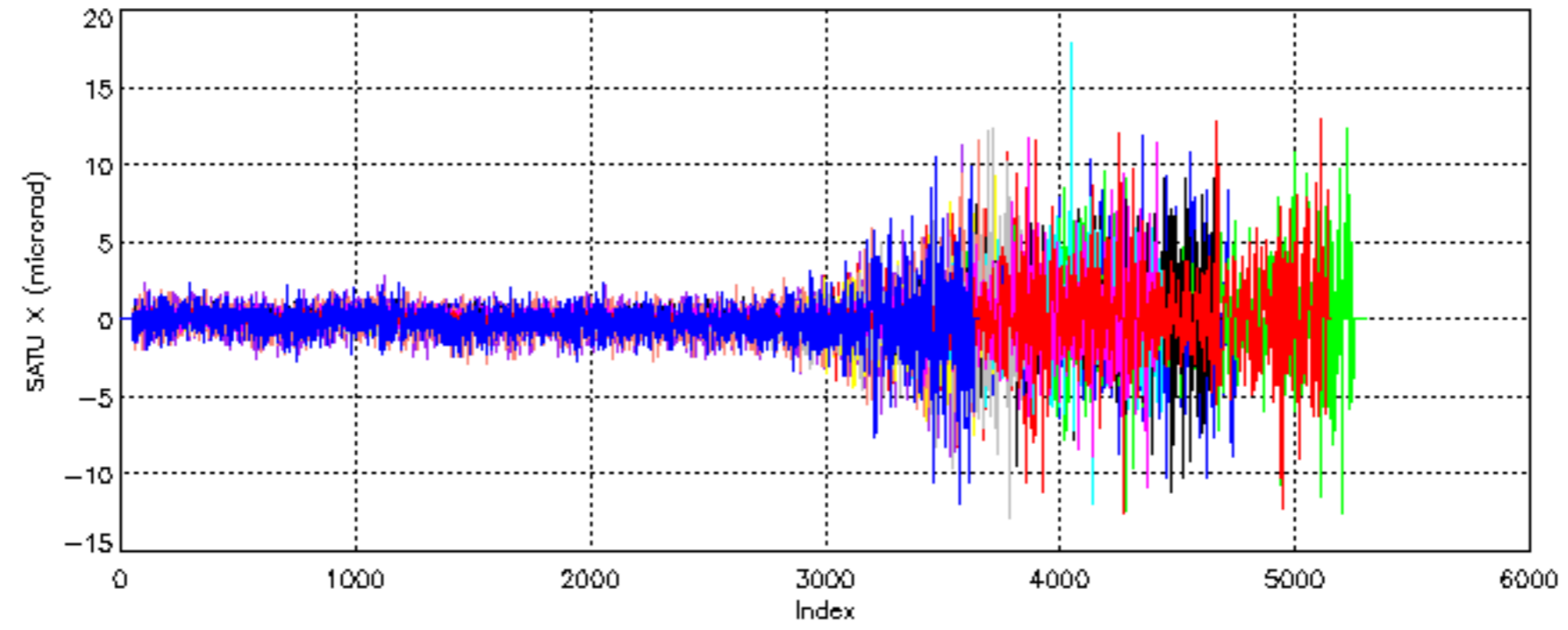


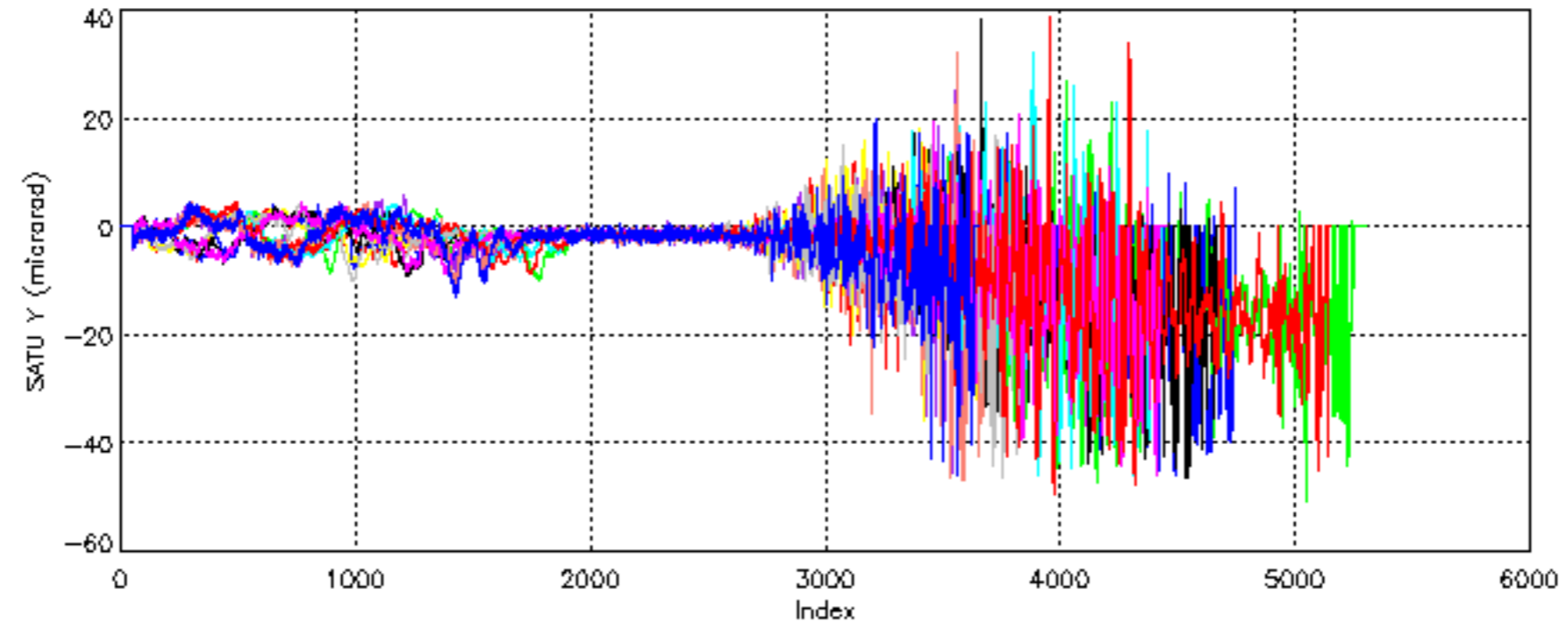
Tangent altitude at which the star is lost

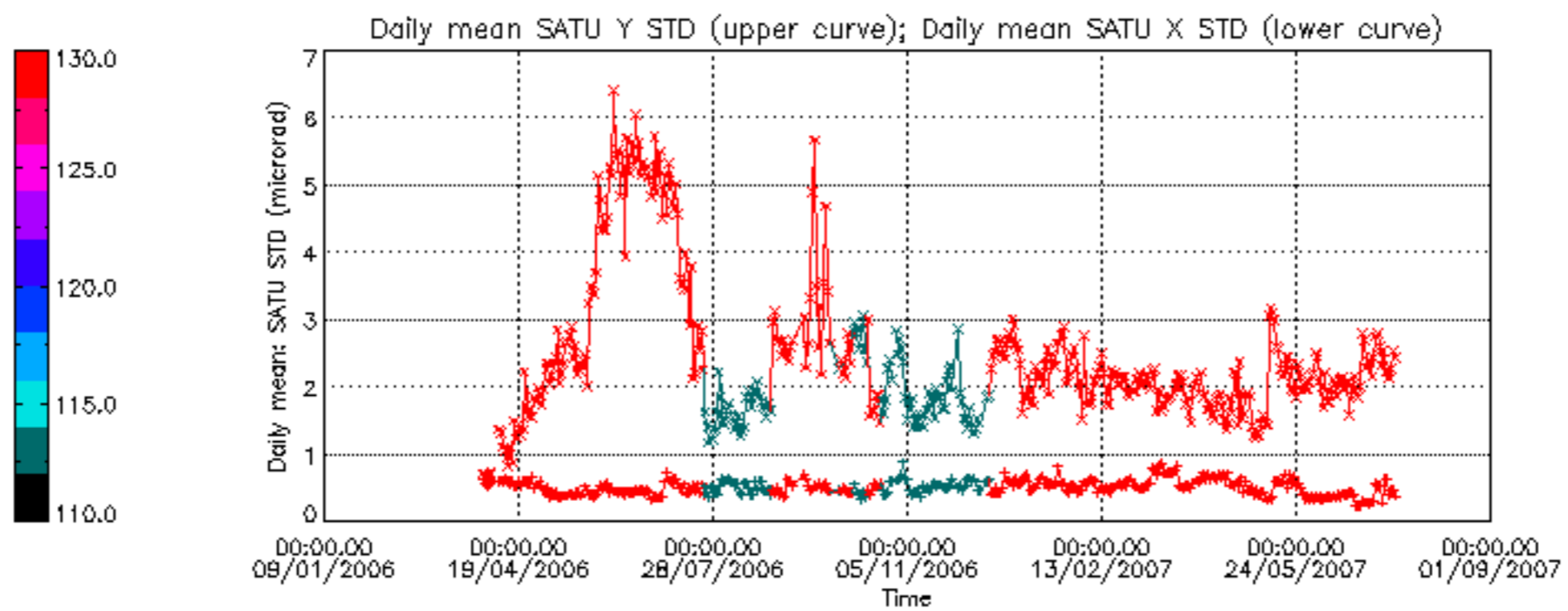


Tangent altitude at which the star is lost









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6; 4211.2; 31-JUL-2007 11:54:21; Bright; 53.0; 42; 34Bet Aur ; 1.90; 10200;occ; 106; 0;28319
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