

GOMOS Daily Report 04-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	06JUL2007 05:43:19
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (04JUL2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (05JUL2007 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)

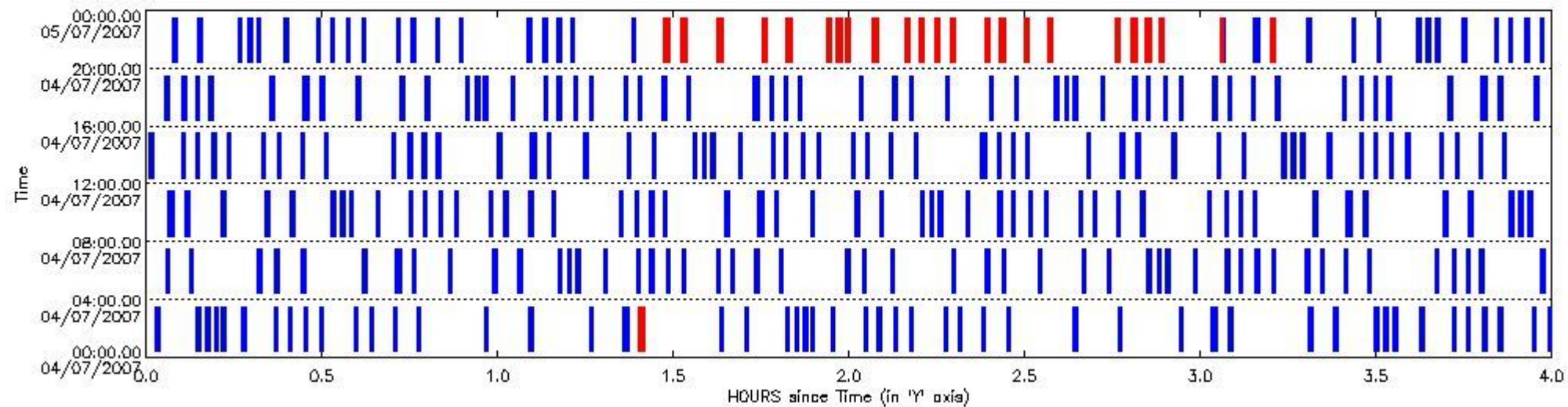
2.1 Level 0 products arrived in PCF (see template [here](#))

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
04-JUL-2007 01:24:03	The1Eri	157	27926
04-JUL-2007 21:28:24	DSA1061	0	27938
04-JUL-2007 21:31:20	The1Eri	157	27938
04-JUL-2007 21:37:30	AlpEri	9	27939
04-JUL-2007 21:45:02	AlpTuc	148	27939
04-JUL-2007 21:49:18	AlpPav	45	27939
04-JUL-2007 21:56:10	TheSco	40	27939
04-JUL-2007 21:57:50	35LamSco	25	27939
04-JUL-2007 21:59:16	19DelSgr	116	27939
04-JUL-2007 22:03:59	35EtaOph	86	27939
04-JUL-2007 22:09:31	60BetOph	126	27939
04-JUL-2007 22:11:50	55AlpOph	59	27939
04-JUL-2007 22:14:41	27BetHer	127	27939
04-JUL-2007 22:17:21	40ZetHer	133	27939
04-JUL-2007 22:23:11	23BetDra	130	27939

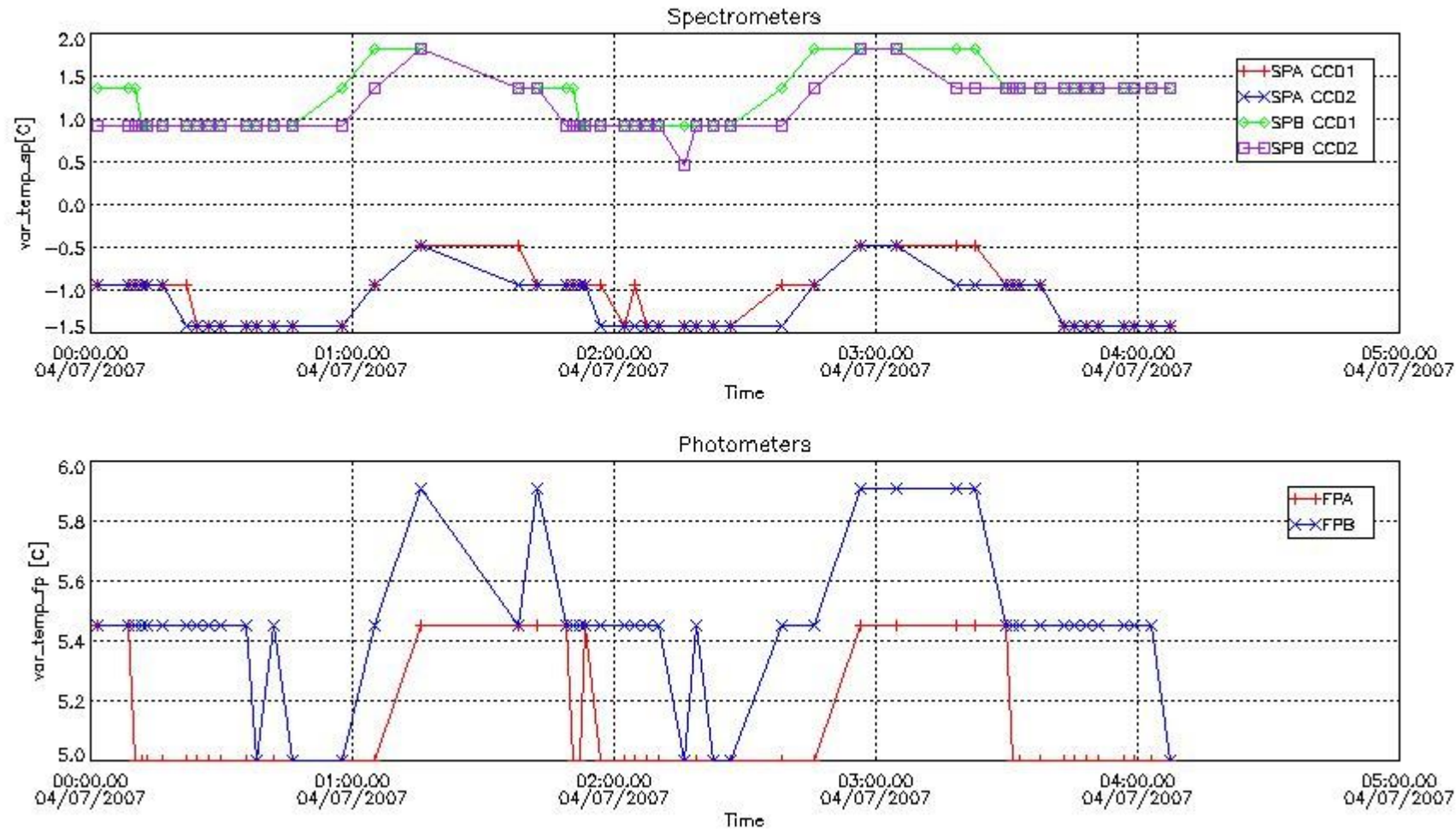
04-JUL-2007 22:25:44	14EtaDra	119	27939
04-JUL-2007 22:29:48	7BetUMi	60	27939
04-JUL-2007 22:33:54	1AlpUMi	49	27939
04-JUL-2007 22:45:19	33AlpPer	35	27939
04-JUL-2007 22:48:11	45EpsPer	149	27939
04-JUL-2007 22:50:36	44ZetPer	150	27939
04-JUL-2007 22:52:57	25EtaTau	146	27939
04-JUL-2007 23:03:25	34GamEri	165	27939
04-JUL-2007 23:11:57	The1Eri	157	27939

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_1PNPDE20070704_000133_000000452059_00317_27926_0547.N1	04-JUL-2007 00:01:33	Straylight	45.000	45	Alp Pav	1.9400	26000.	90	27926	No
2	GOM_TRA_1PNPDE20070704_000829_000000402059_00317_27926_0548.N1	04-JUL-2007 00:08:29	Twilight	40.000	40	The Sco	1.8590	7100.0	80	27926	No
3	GOM_TRA_1PNPDE20070704_001008_000000402059_00317_27926_0549.N1	04-JUL-2007 00:10:08	Twilight	39.500	25	35Lam Sco	1.6200	28000.	79	27926	No
4	GOM_TRA_1PNPDE20070704_001134_000000452059_00317_27926_0550.N1	04-JUL-2007 00:11:34	Bright	44.500	116	19Del Sgr	2.7000	4100.0	89	27926	No
5	GOM_TRA_1PNPDE20070704_001246_000000422059_00317_27926_0551.N1	04-JUL-2007 00:12:46	Bright	41.500	137	22Lam Sgr	2.8240	4400.0	83	27926	No
6	GOM_TRA_1PNPDE20070704_001619_000000362059_00317_27926_0552.N1	04-JUL-2007 00:16:19	Bright	36.000	86	35Eta Oph	2.4300	10200.	72	27926	No
7	GOM_TRA_1PNPDE20070704_002152_000000362059_00317_27926_0553.N1	04-JUL-2007 00:21:52	Bright	36.000	126	60Bet Oph	2.7700	4250.0	72	27926	No
8	GOM_TRA_1PNPDE20070704_002411_000000372059_00317_27926_0554.N1	04-JUL-2007 00:24:11	Bright	37.000	59	55Alp Oph	2.0800	8900.0	74	27926	No
9	GOM_TRA_1PNPDE20070704_002700_000000342059_00317_27926_0555.N1	04-JUL-2007 00:27:00	Bright	33.500	127	27Bet Her	2.7810	4700.0	67	27926	No
10	GOM_TRA_1PNPDE20070704_002942_000000362059_00317_27926_0556.N1	04-JUL-2007 00:29:42	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	27926	No
11	GOM_TRA_1PNPDE20070704_003534_000000342059_00317_27926_0557.N1	04-JUL-2007 00:35:34	Bright	34.000	130	23Bet Dra	2.7990	5800.0	68	27926	No
12	GOM_TRA_1PNPDE20070704_003804_000000352059_00317_27926_0558.N1	04-JUL-2007 00:38:04	Bright	35.000	119	14Eta Dra	2.7270	4700.0	70	27926	No
13	GOM_TRA_1PNPDE20070704_004207_000000322059_00317_27926_0559.N1	04-JUL-2007 00:42:07	Bright	32.000	60	7Bet UMi	2.0810	3950.0	64	27926	No
14	GOM_TRA_1PNPDE20070704_004615_000000332059_00317_27926_0560.N1	04-JUL-2007 00:46:15	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	27926	No
15	GOM_TRA_1PNPDE20070704_005741_000000372059_00317_27926_0561.N1	04-JUL-2007 00:57:41	Bright	36.500	35	33Alp Per	1.7950	6250.0	73	27926	No
16	GOM_TRA_1PNPDE20070704_010517_000000402059_00317_27926_0562.N1	04-JUL-2007 01:05:17	Twilight	39.500	146	25Eta Tau	2.8730	15200.	79	27926	No
17	GOM_TRA_1PNPDE20070704_011542_000000402059_00317_27926_0563.N1	04-JUL-2007 01:15:42	Dark	39.500	165	34Gam Eri	2.9500	3200.0	79	27926	No
18	GOM_TRA_1PNPDE20070704_013752_000000422059_00318_27927_0676.N1	04-JUL-2007 01:37:52	Straylight	42.000	148	Alp Tuc	2.8780	4100.0	84	27927	No
19	GOM_TRA_1PNPDE20070704_014210_000000442059_00318_27927_0677.N1	04-JUL-2007 01:42:10	Straylight	44.000	45	Alp Pav	1.9400	26000.	88	27927	No
20	GOM_TRA_1PNPDE20070704_014905_000000452059_00318_27927_0678.N1	04-JUL-2007 01:49:05	Twilight	44.500	40	The Sco	1.8590	7100.0	89	27927	No
21	GOM_TRA_1PNPDE20070704_015044_000000402059_00318_27927_0679.N1	04-JUL-2007 01:50:44	Twilight	40.000	25	35Lam Sco	1.6200	28000.	80	27927	No
22	GOM_TRA_1PNPDE20070704_015210_000000542059_00318_27927_0680.N1	04-JUL-2007 01:52:10	Bright	54.000	116	19Del Sgr	2.7000	4100.0	108	27927	No
23	GOM_TRA_1PNPDE20070704_015322_000000412059_00318_27927_0681.N1	04-JUL-2007 01:53:22	Bright	40.500	137	22Lam Sgr	2.8240	4400.0	81	27927	No
24	GOM_TRA_1PNPDE20070704_015655_000000372059_00318_27927_0682.N1	04-JUL-2007 01:56:55	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	27927	No
25	GOM_TRA_1PNPDE20070704_020228_000000372059_00318_27927_0683.N1	04-JUL-2007 02:02:28	Bright	36.500	126	60Bet Oph	2.7700	4250.0	73	27927	No
26	GOM_TRA_1PNPDE20070704_020447_000000382059_00318_27927_0684.N1	04-JUL-2007 02:04:47	Bright	37.500	59	55Alp Oph	2.0800	8900.0	75	27927	No
27	GOM_TRA_1PNPDE20070704_020736_000000352059_00318_27927_0685.N1	04-JUL-2007 02:07:36	Bright	35.000	127	27Bet Her	2.7810	4700.0	70	27927	No
28	GOM_TRA_1PNPDE20070704_021018_000000372059_00318_27927_0686.N1	04-JUL-2007 02:10:18	Bright	37.000	133	40Zet Her	2.8070	6000.0	74	27927	No
29	GOM_TRA_1PNPDE20070704_021610_000000352059_00318_27927_0687.N1	04-JUL-2007 02:16:10	Bright	35.000	130	23Bet Dra	2.7990	5800.0	70	27927	No
30	GOM_TRA_1PNPDE20070704_021840_000000362059_00318_27927_0688.N1	04-JUL-2007 02:18:40	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	27927	No
31	GOM_TRA_1PNPDE20070704_022243_000000322059_00318_27927_0689.N1	04-JUL-2007 02:22:43	Bright	32.000	60	7Bet UMi	2.0810	3950.0	64	27927	No
32	GOM_TRA_1PNPDE20070704_022651_000000352059_00318_27927_0690.N1	04-JUL-2007 02:26:51	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	27927	No
33	GOM_TRA_1PNPDE20070704_023817_000000482059_00318_27927_0885.N1	04-JUL-2007 02:38:17	Bright	47.500	35	33Alp Per	1.7950	6250.0	95	27927	No
34	GOM_TRA_1PNPDE20070704_024553_000000412059_00318_27927_0886.N1	04-JUL-2007 02:45:53	Twilight	40.500	146	25Eta Tau	2.8730	15200.	81	27927	No
35	GOM_TRA_1PNPDE20070704_025618_000000382059_00318_27927_0887.N1	04-JUL-2007 02:56:18	Dark	38.000	165	34Gam Eri	2.9500	3200.0	76	27927	No
36	GOM_TRA_1PNPDE20070704_030449_000000392059_00318_27927_0888.N1	04-JUL-2007 03:04:49	Dark	39.000	157	The1Eri	2.9060	9300.0	78	27927	No
37	GOM_TRA_1PNPDE20070704_031829_000000412059_00319_27928_0889.N1	04-JUL-2007 03:18:29	Straylight	40.500	148	Alp Tuc	2.8780	4100.0	81	27928	No
38	GOM_TRA_1PNPDE20070704_032246_000000412059_00319_27928_0890.N1	04-JUL-2007 03:22:46	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	27928	No
39	GOM_TRA_1PNPDE20070704_032941_000000412059_00319_27928_0891.N1	04-JUL-2007 03:29:41	Twilight	40.500	40	The Sco	1.8590	7100.0	81	27928	No
40	GOM_TRA_1PNPDE20070704_033121_000000412059_00319_27928_0892.N1	04-JUL-2007 03:31:21	Twilight	40.500	25	35Lam Sco	1.6200	28000.	81	27928	No
41	GOM_TRA_1PNPDE20070704_033247_000000482059_00319_27928_0893.N1	04-JUL-2007 03:32:47	Bright	47.500	116	19Del Sgr	2.7000	4100.0	95	27928	No
42	GOM_TRA_1PNPDE20070704_033731_000000372059_00319_27928_0894.N1	04-JUL-2007 03:37:31	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	27928	No
43	GOM_TRA_1PNPDE20070704_034304_000000372059_00319_27928_0895.N1	04-JUL-2007 03:43:04	Bright	37.000	126	60Bet Oph	2.7700	4250.0	74	27928	No
44	GOM_TRA_1PNPDE20070704_034523_000000372059_00319_27928_0896.N1	04-JUL-2007 03:45:23	Bright	36.500	59	55Alp Oph	2.0800	8900.0	73	27928	No
45	GOM_TRA_1PNPDE20070704_034812_000000372059_00319_27928_0897.N1	04-JUL-2007 03:48:12	Bright	37.000	127	27Bet Her	2.7810	4700.0	74	27928	No

46	GOM_TRA_1PNPDE20070704_035054_000000362059_00319_27928_0898.N1	04-JUL-2007 03:50:54	Bright	35.500	133	40Zet Her	2.8070	6000.0	71	27928	No
47	GOM_TRA_1PNPDE20070704_035646_000000362059_00319_27928_0899.N1	04-JUL-2007 03:56:46	Bright	35.500	130	23Bet Dra	2.7990	5800.0	71	27928	No
48	GOM_TRA_1PNPDE20070704_035917_000000342059_00319_27928_0900.N1	04-JUL-2007 03:59:17	Bright	34.000	119	14Eta Dra	2.7270	4700.0	68	27928	No
49	GOM_TRA_1PNPDE20070704_040319_000000342059_00319_27928_0901.N1	04-JUL-2007 04:03:19	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	27928	No
50	GOM_TRA_1PNPDE20070704_040727_000000362059_00319_27928_0902.N1	04-JUL-2007 04:07:27	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	27928	No

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



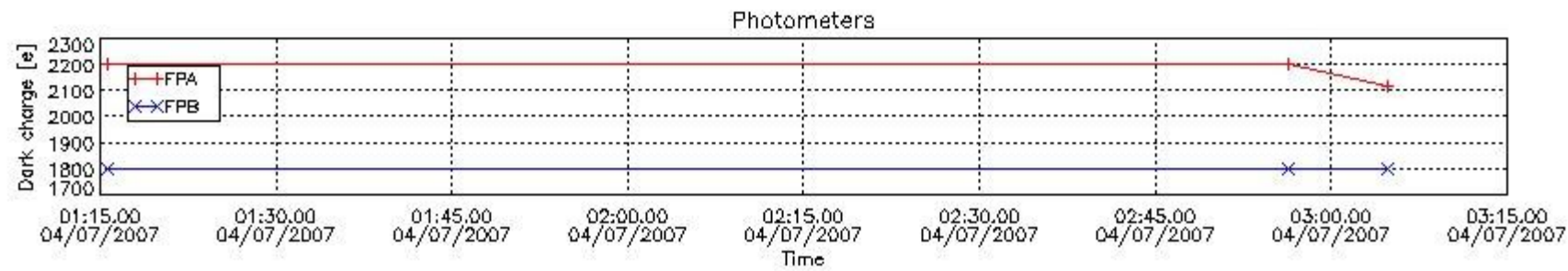
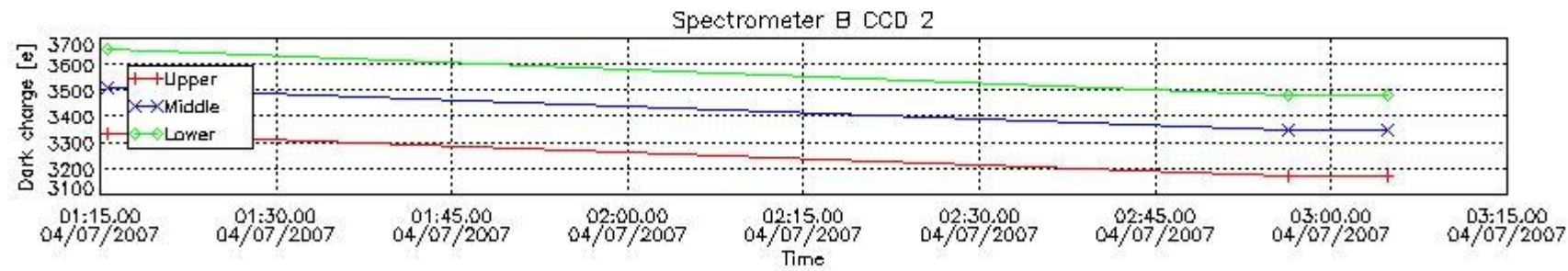
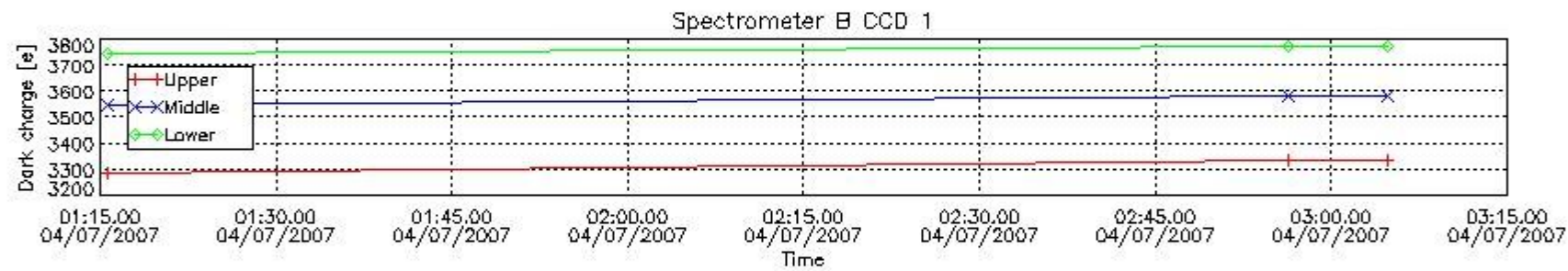
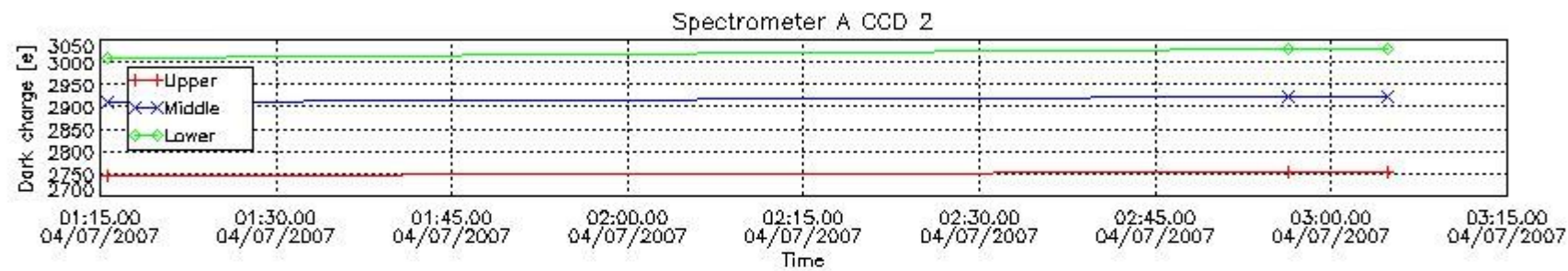
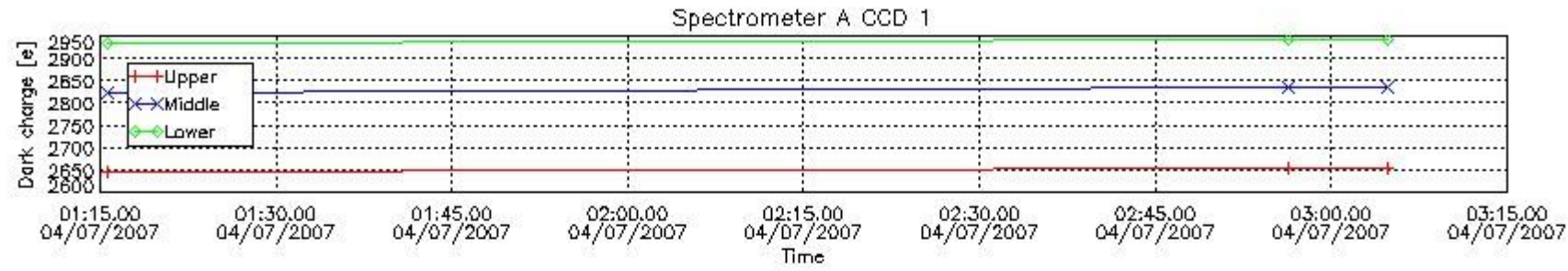
4. Overview of dark signal processing per product

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



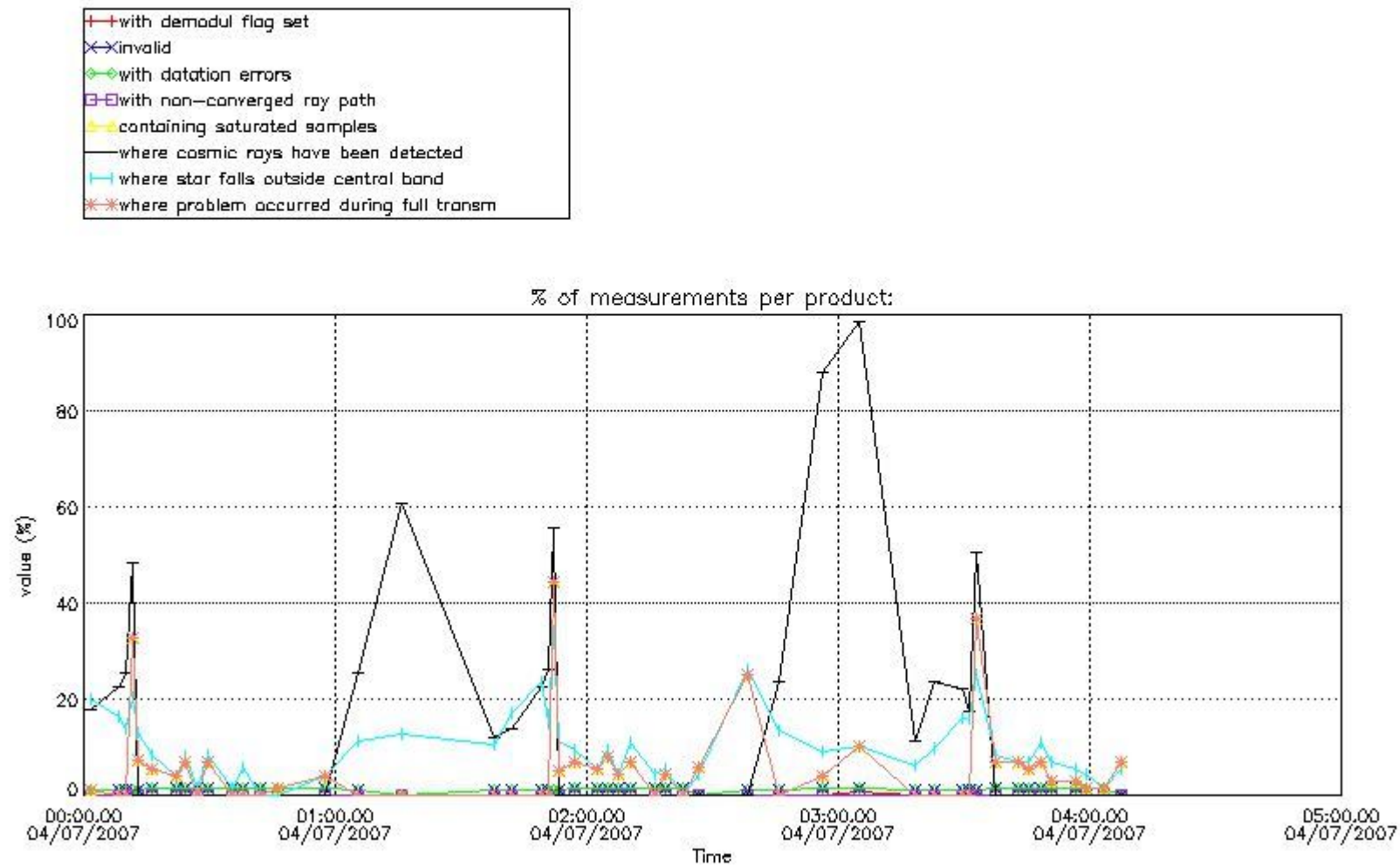
5. Demodulation flag and quality information monitoring

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.

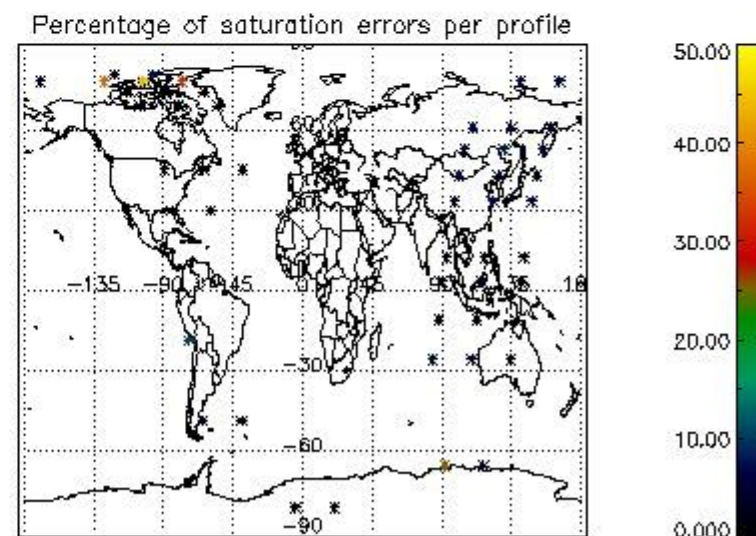
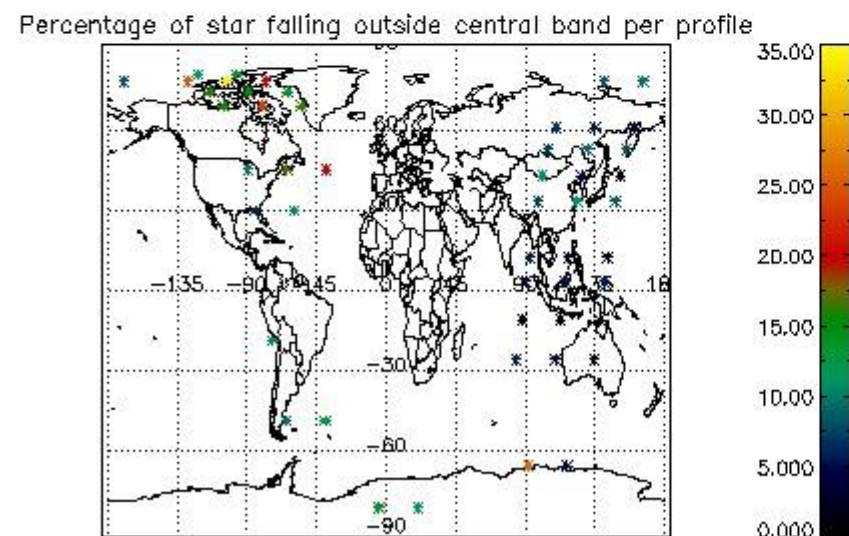
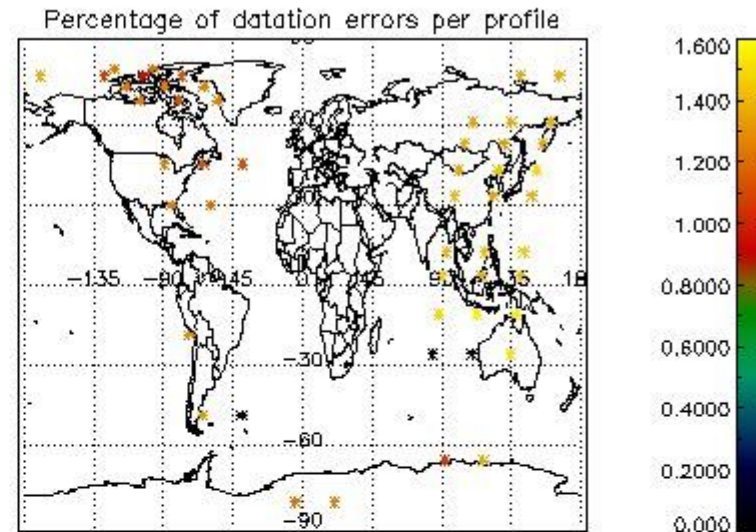
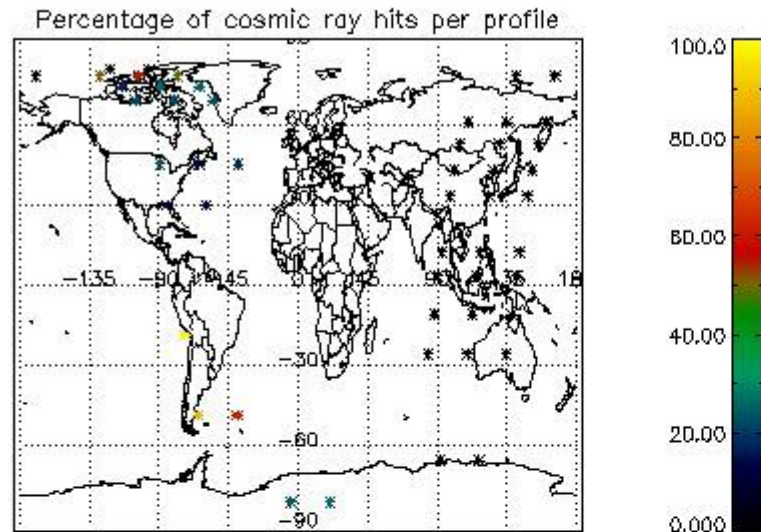
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	14.0000 %
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)



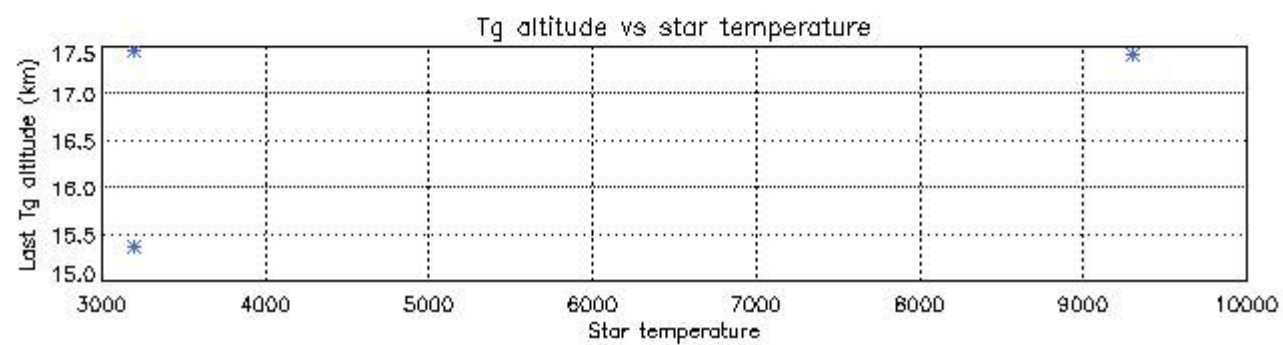
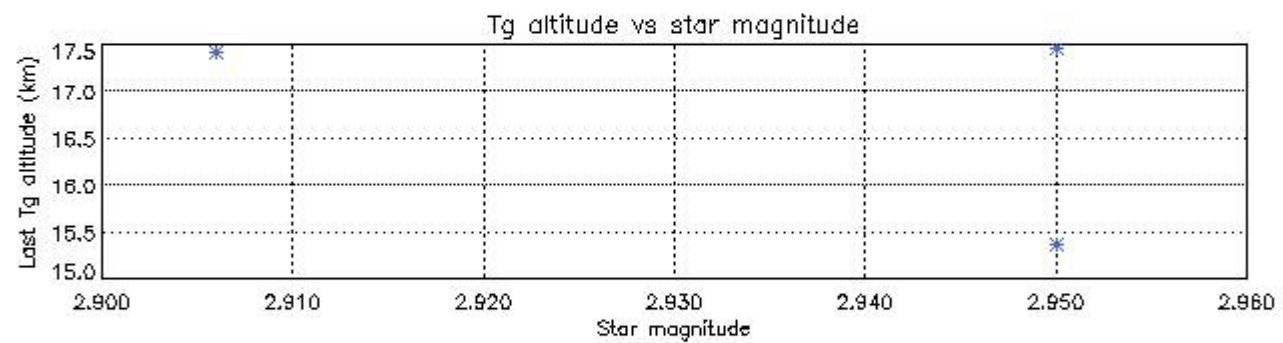
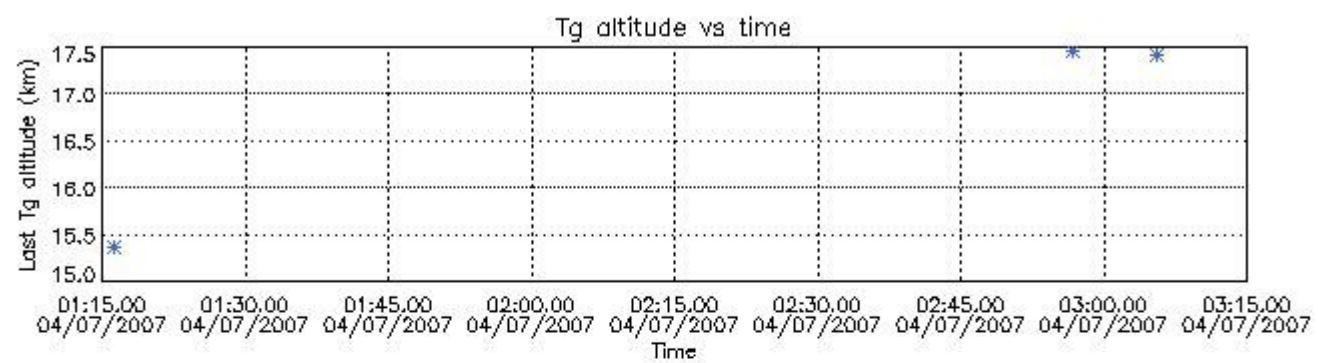
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.748	20.322	15.546
St. deviation:	1.1909	5.5045	1.0045
Maximum:	17.458	29.774	16.257
Minimum:	15.373	4.1959	14.836
Number of data:	3.0000	34.000	2.0000

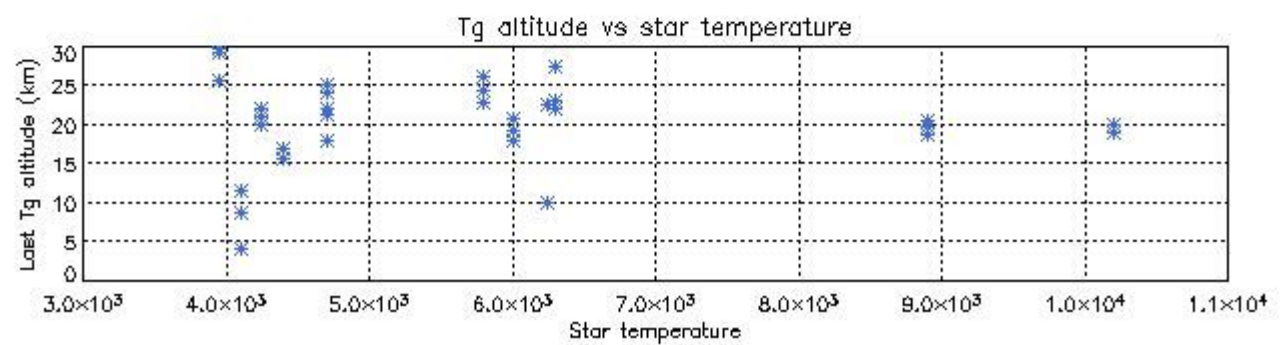
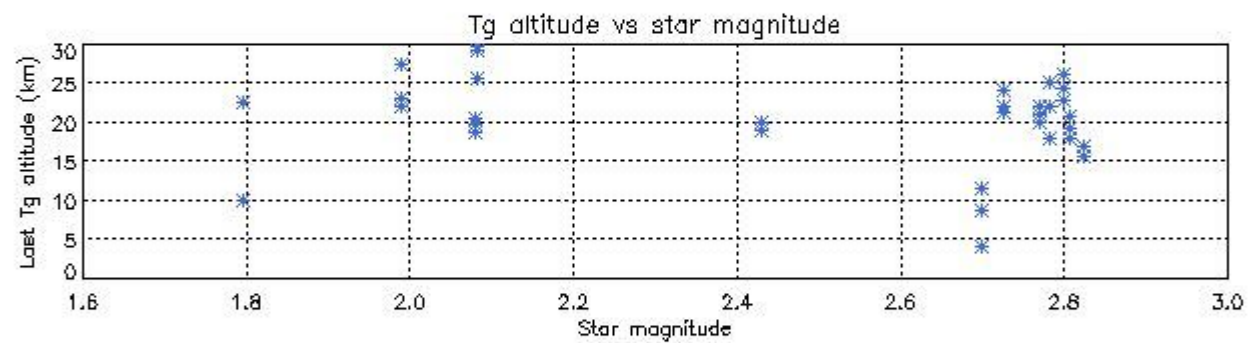
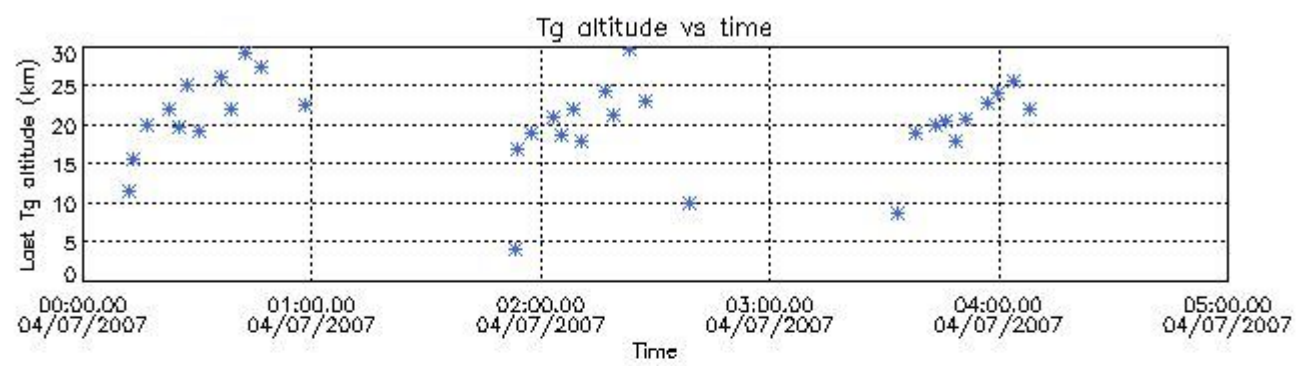
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



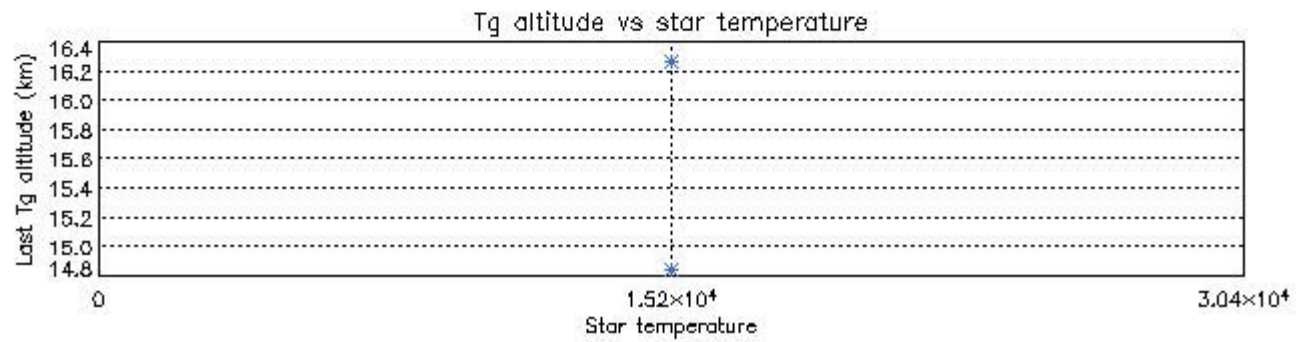
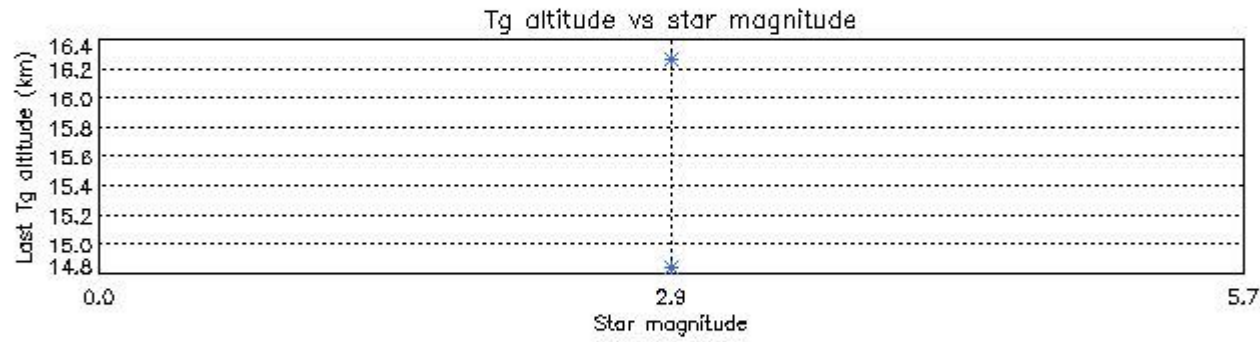
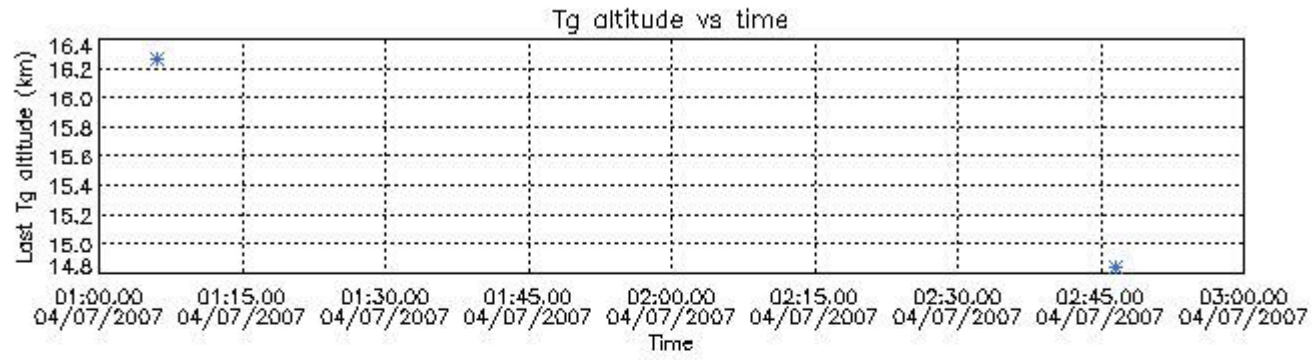
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

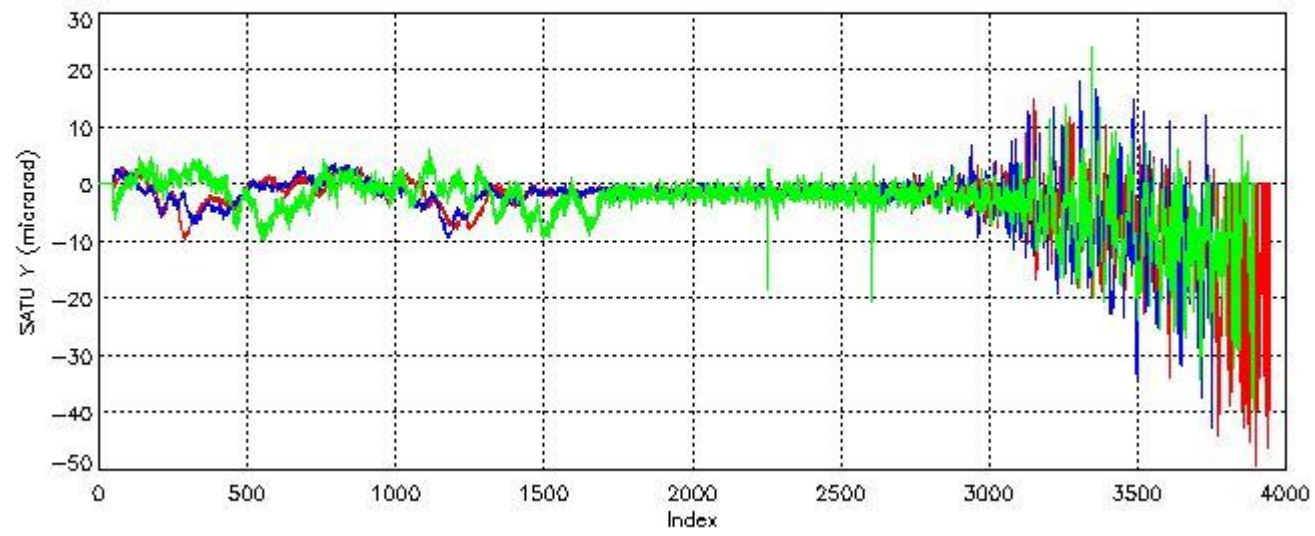
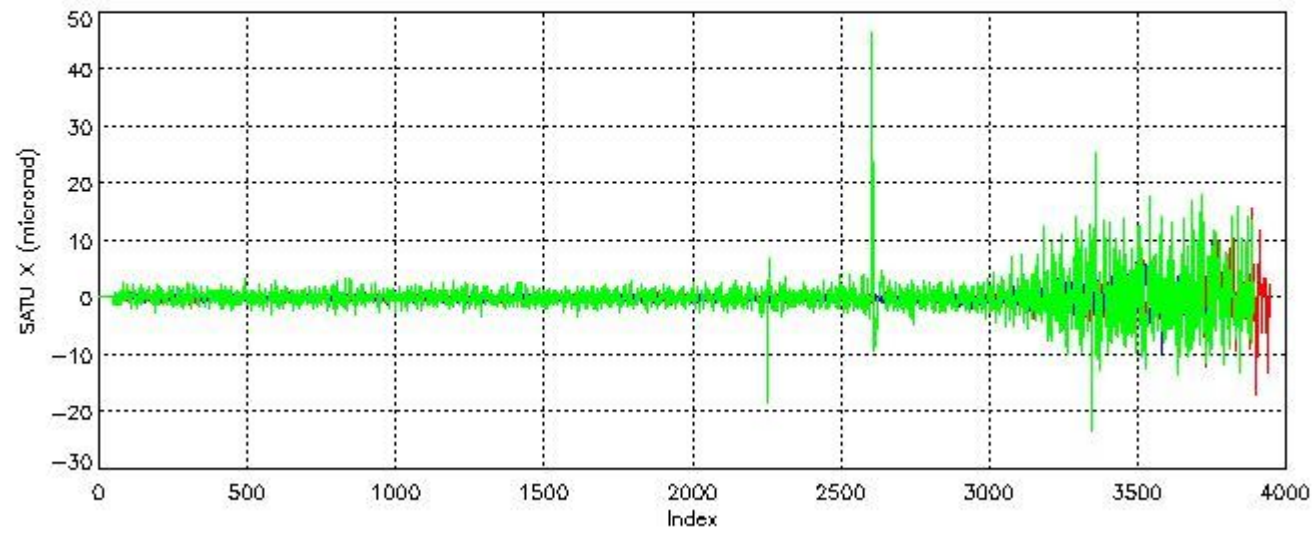


7. Star Acquisition and Tracking Unit (SATU)

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:	0.011601	-0.97300	0.095857	-1.2230
St. deviation:	0.57148	2.7470	0.66088	3.1642
Maximum:	3.5000	4.9000	3.7000	6.7000
Minimum:	-3.1000	-9.8000	-3.4000	-12.400

Number of data:	2650.0	2650.0	28300.	28300.
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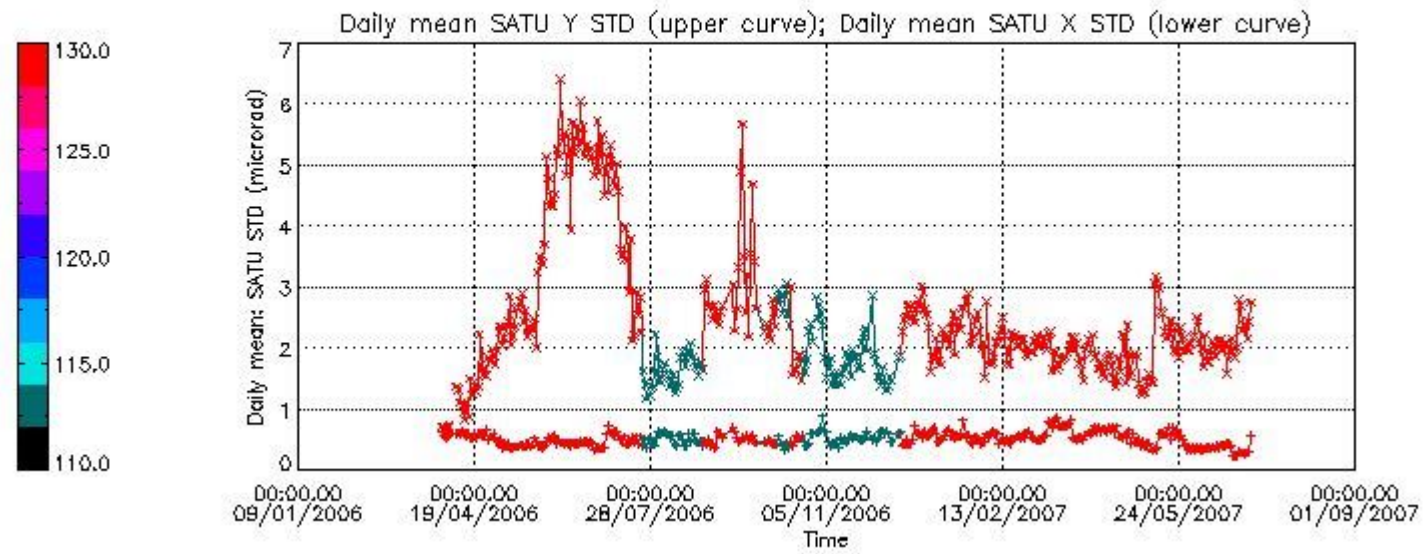
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

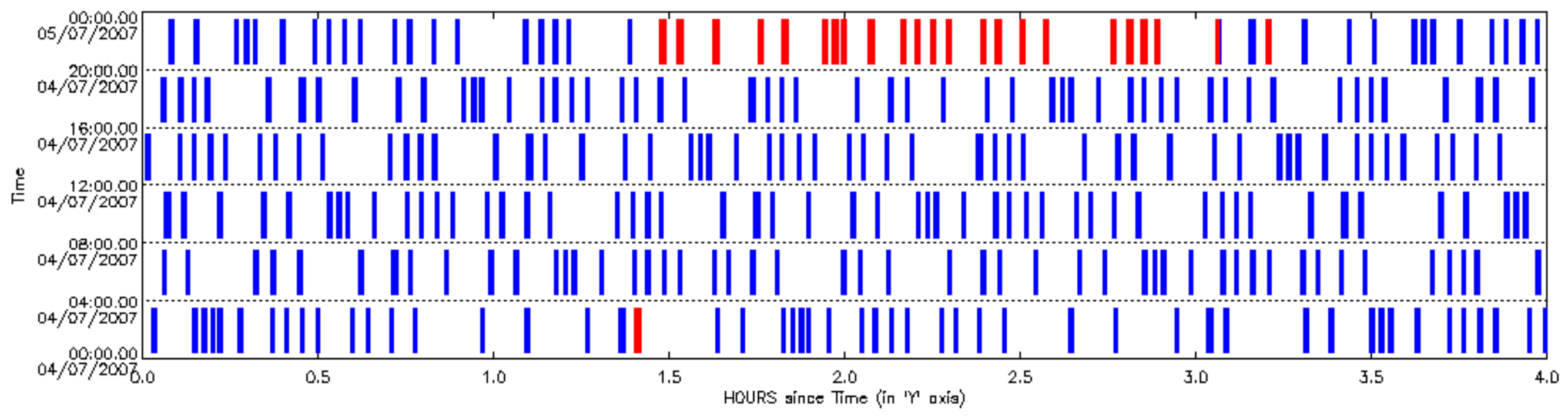
Lower curve: STD of SATU X axis

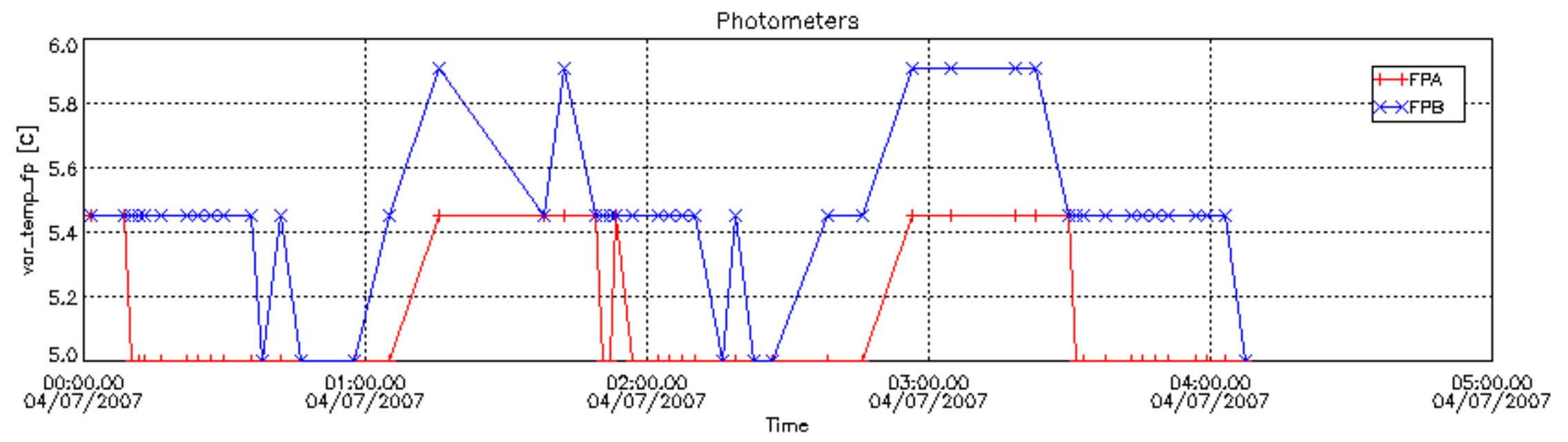
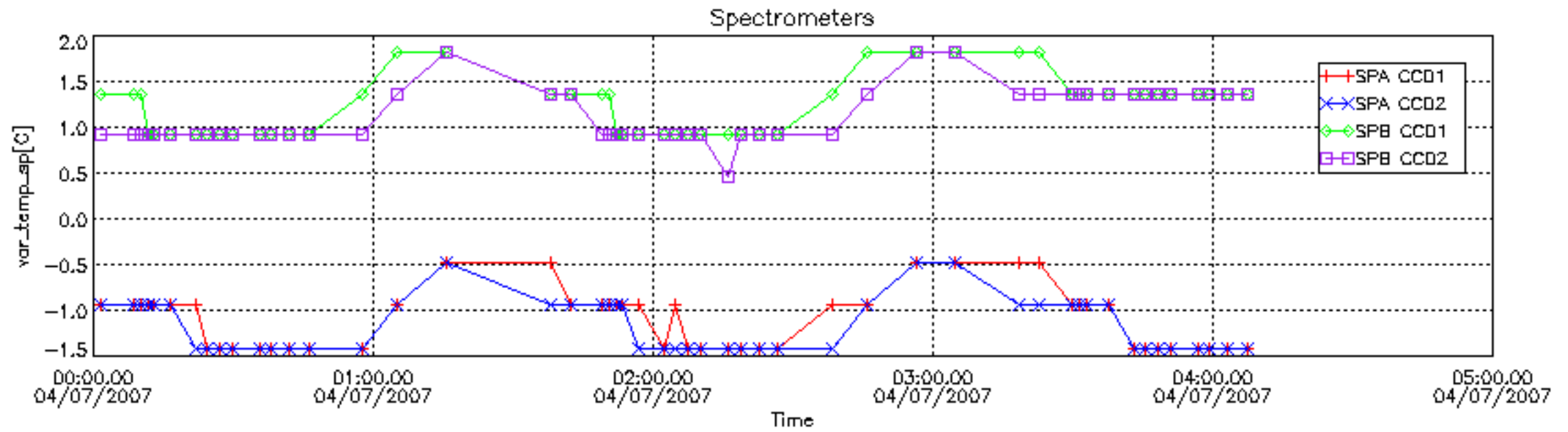


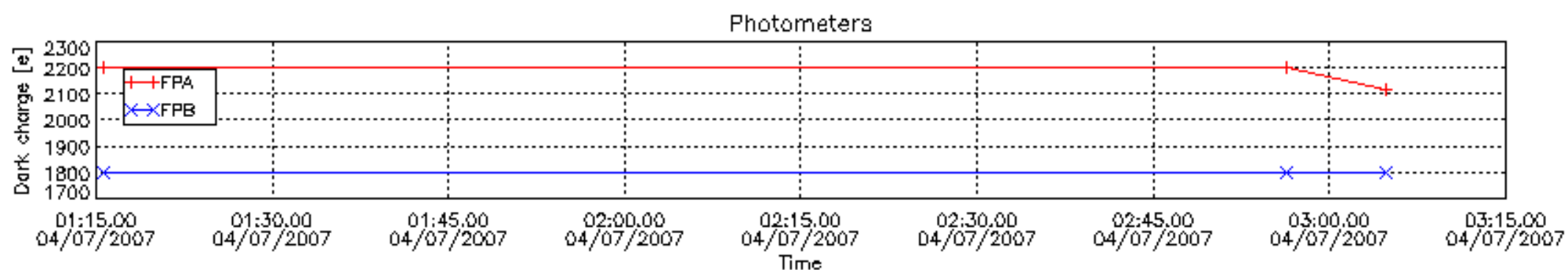
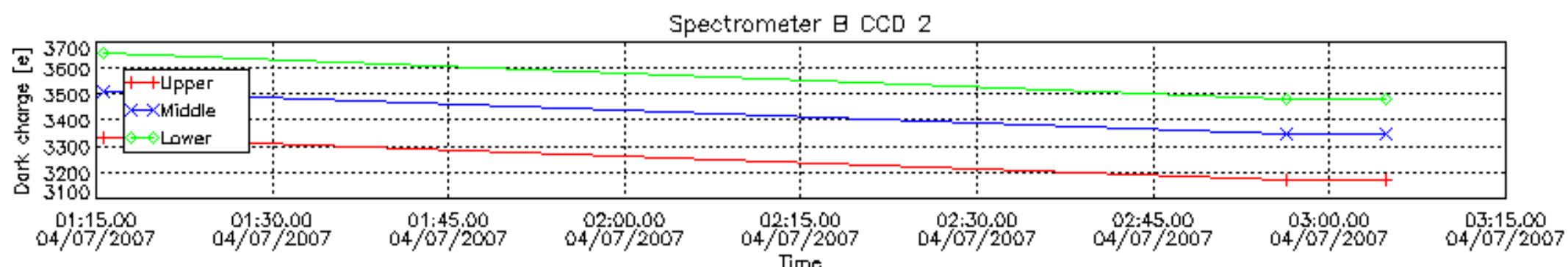
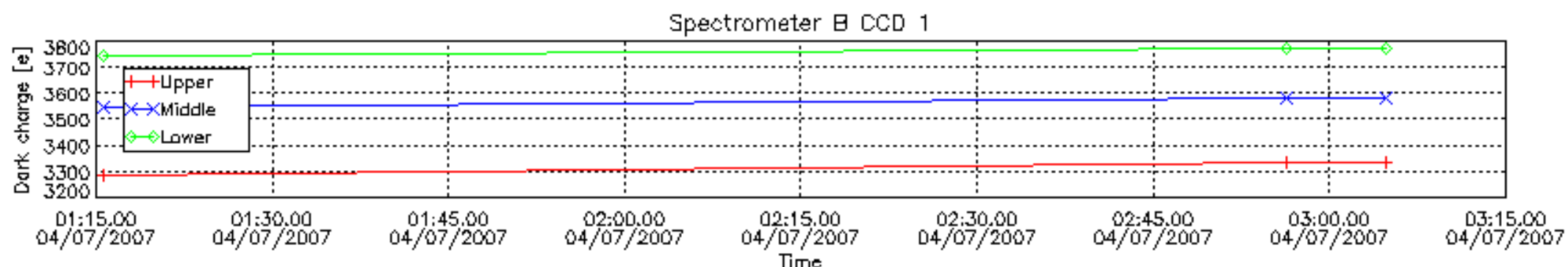
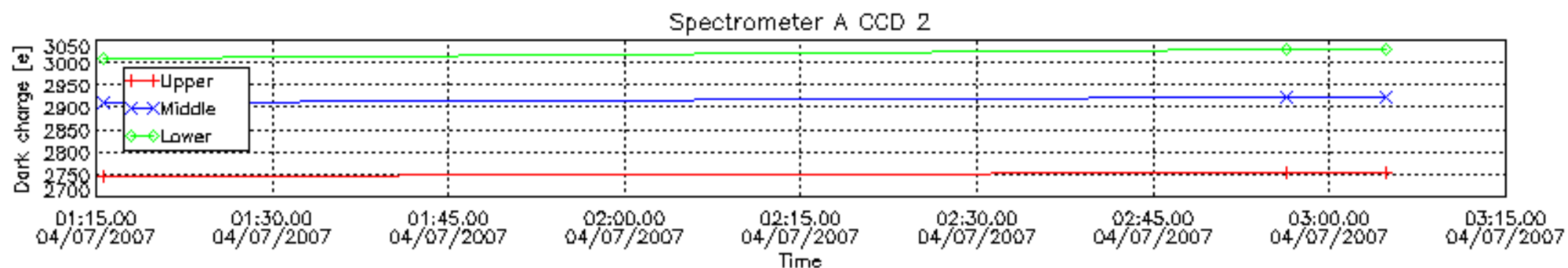
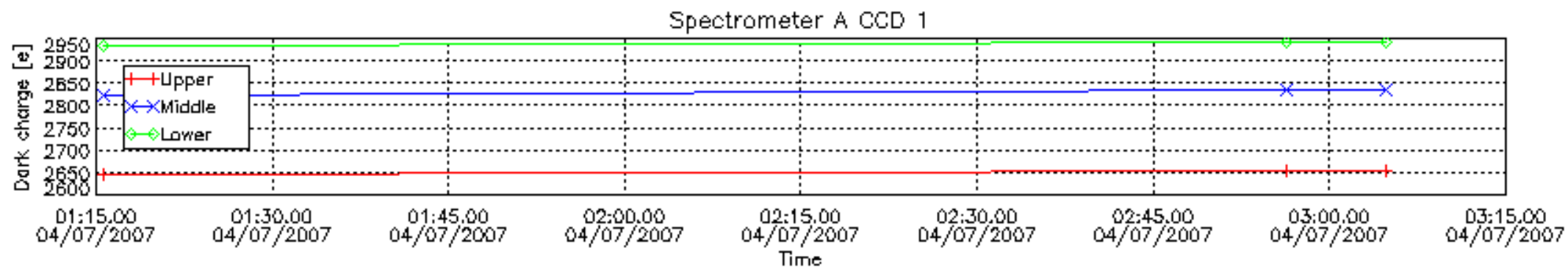
8. Auxiliary Data Files used for the production reported in section 2.4

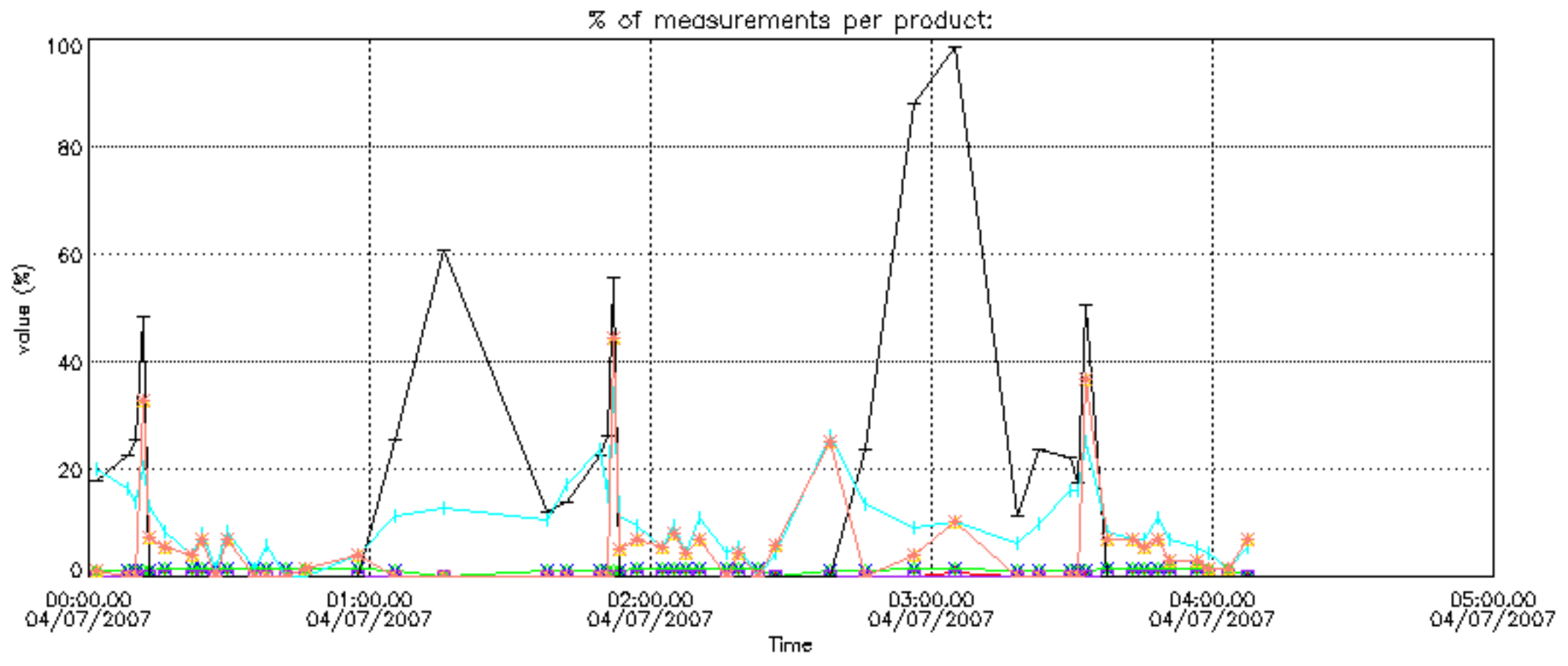
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	04-JUL-2007 00:01:33
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070702_090425_20070701_000000_20100101_000000	1	04-JUL-2007 00:01:33
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	04-JUL-2007 00:01:33
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	04-JUL-2007 00:01:33
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	04-JUL-2007 00:01:33
ECMWF_FILE	AUX_ECF_AXNECM20070703_061112_20070703_210000_20070704_090000	1	04-JUL-2007 00:01:33
OPTIONAL_ECMWF_FILE	MISSING	1	04-JUL-2007 00:01:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070703_215218_000057382059_00315_27924_3705.N1	1	04-JUL-2007 00:01:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070703_233315_000057382059_00316_27925_3706.N1	18	04-JUL-2007 01:37:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070704_011412_000038252059_00317_27926_3707.N1	33	04-JUL-2007 02:38:17

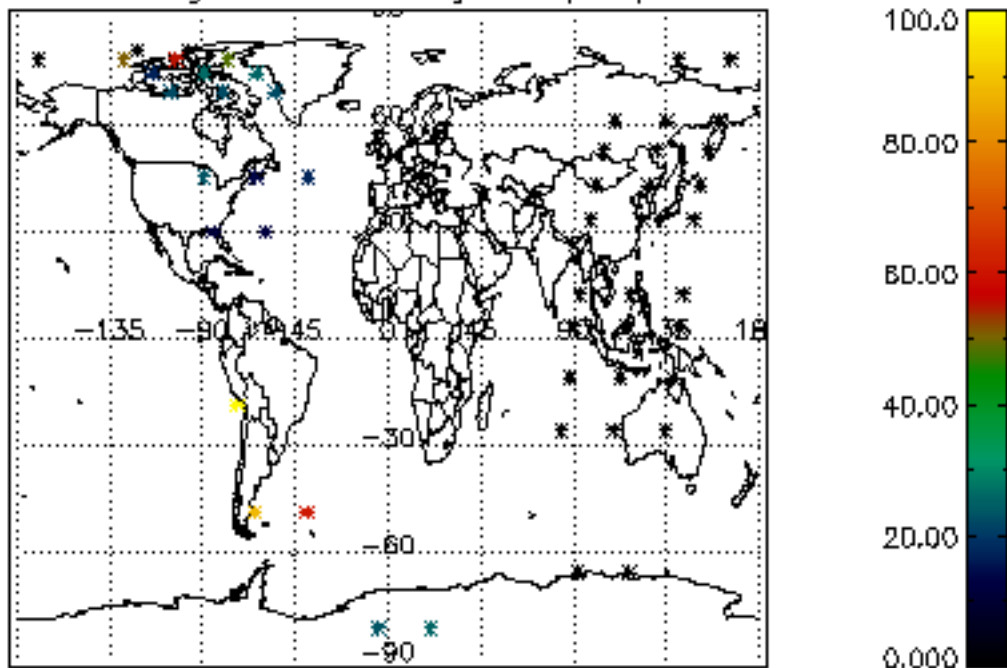




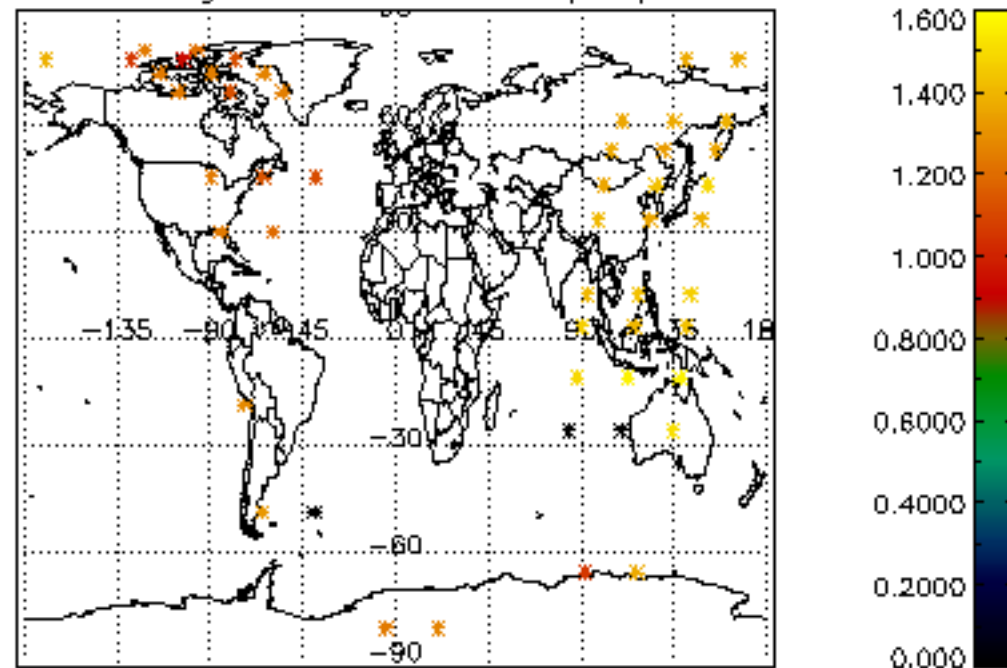




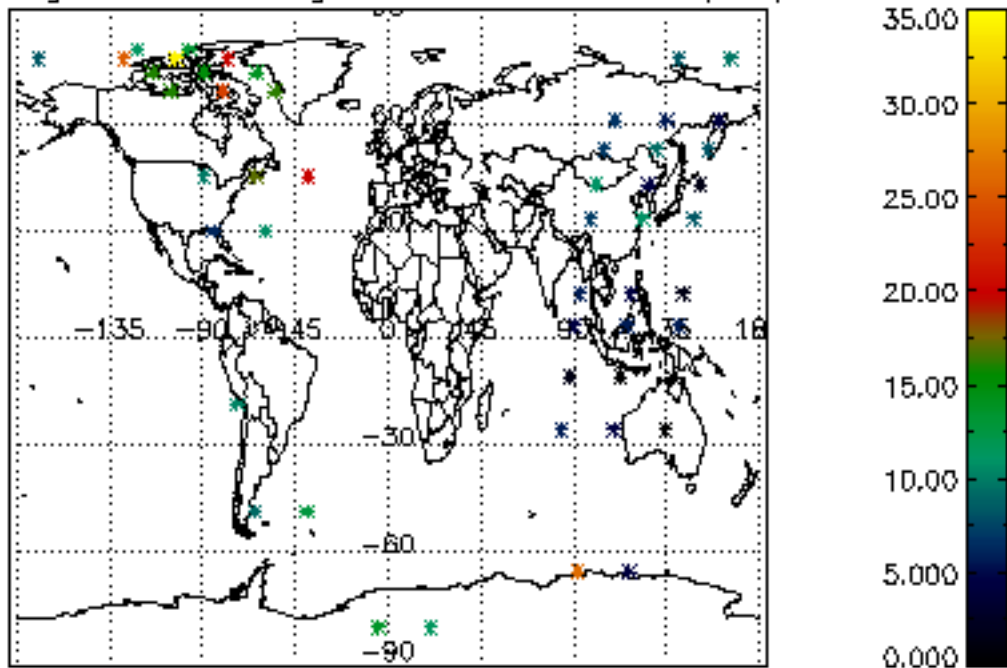
Percentage of cosmic ray hits per profile



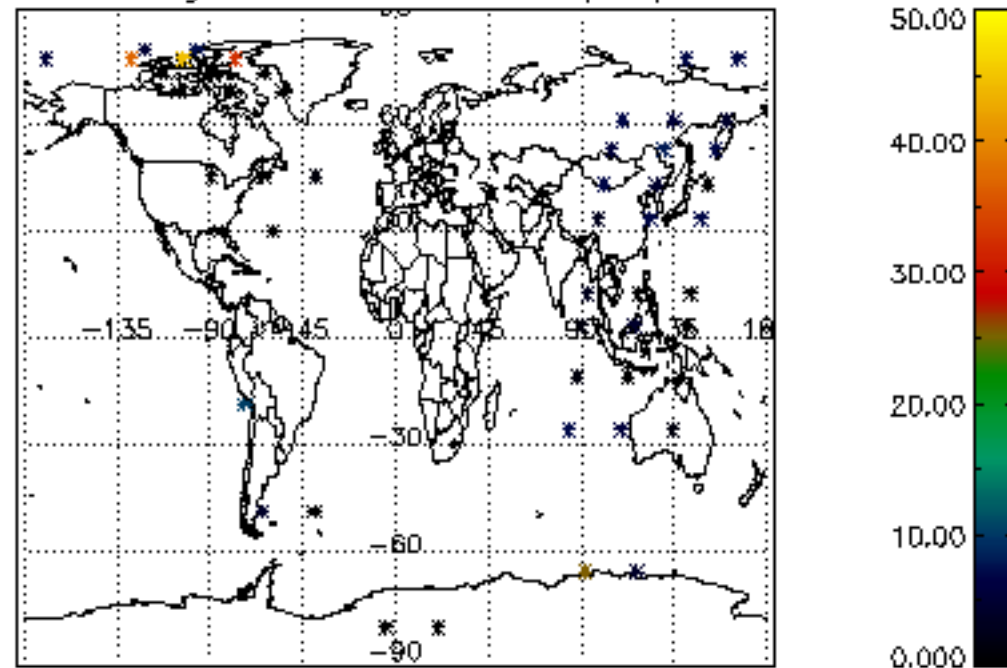
Percentage of datation errors per profile



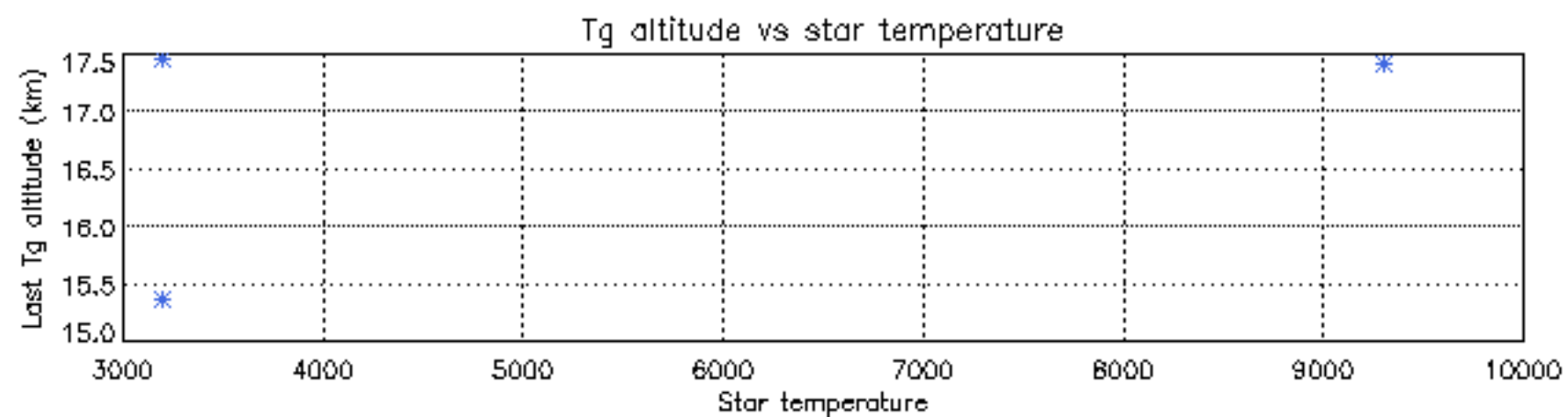
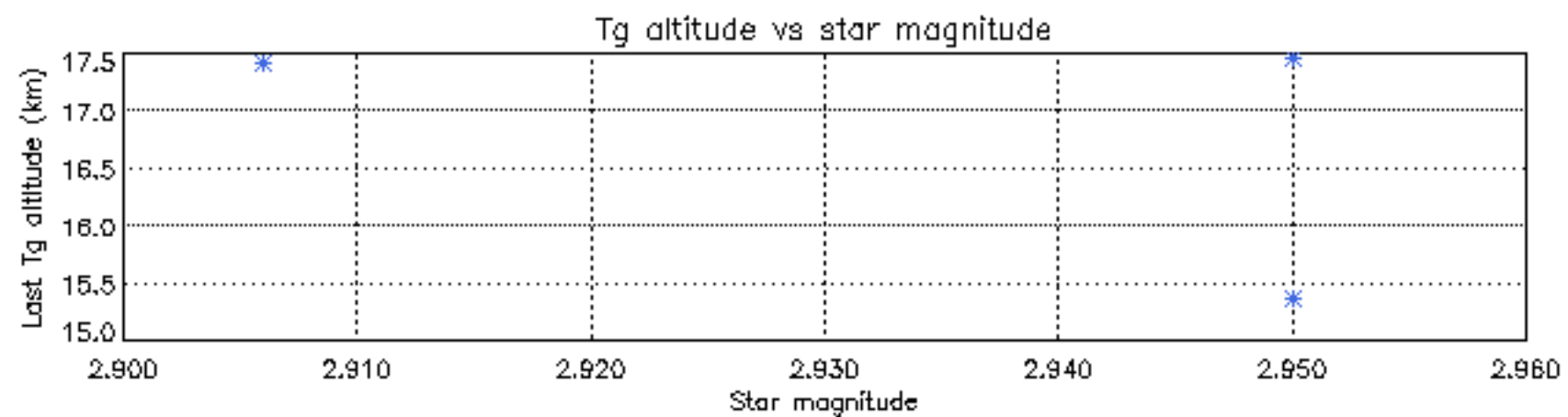
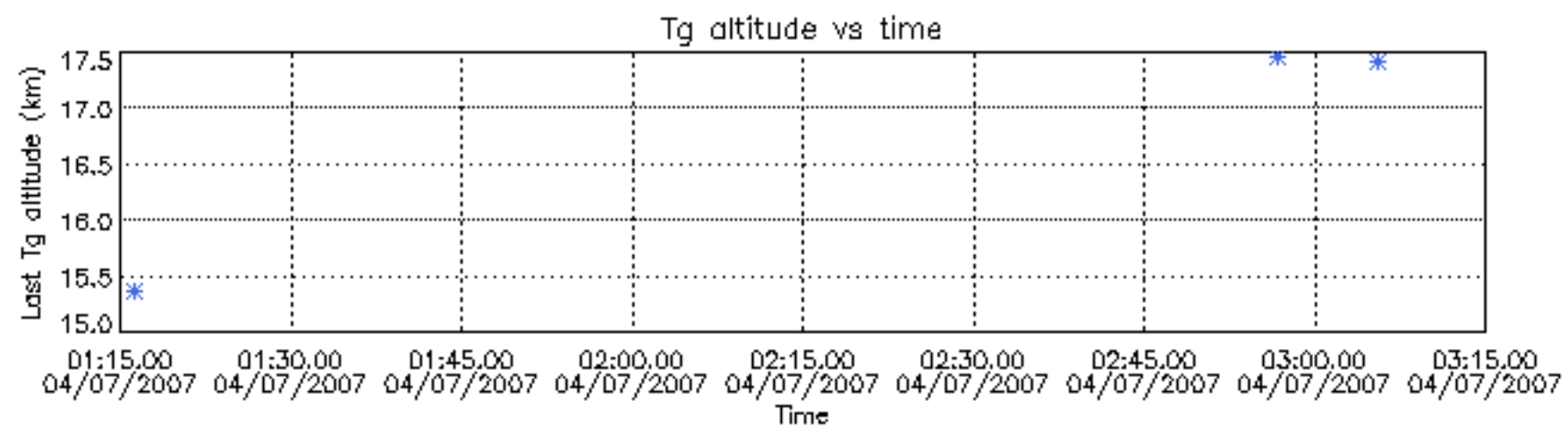
Percentage of star falling outside central band per profile



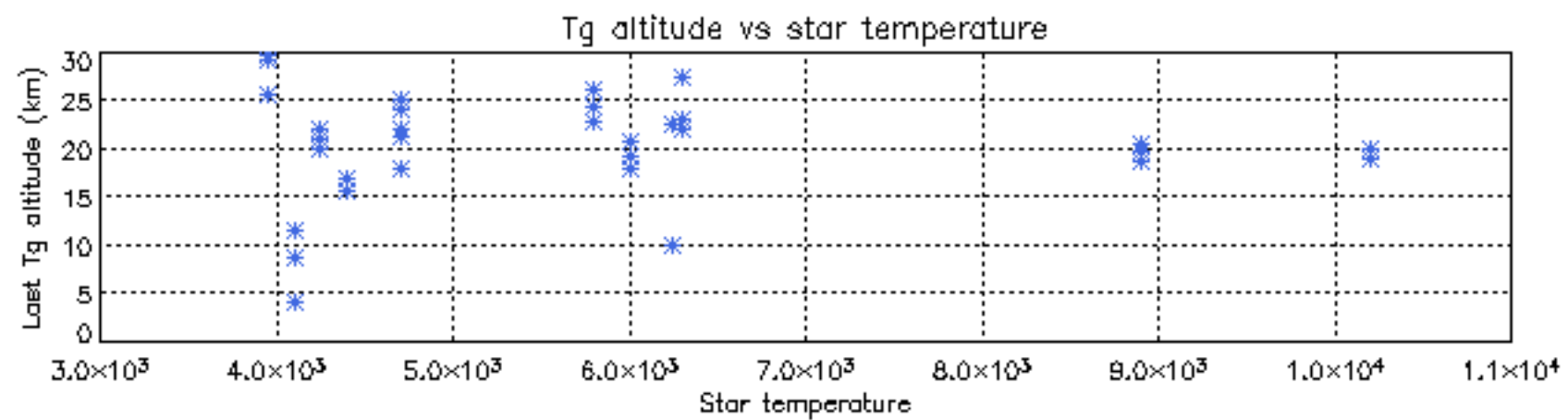
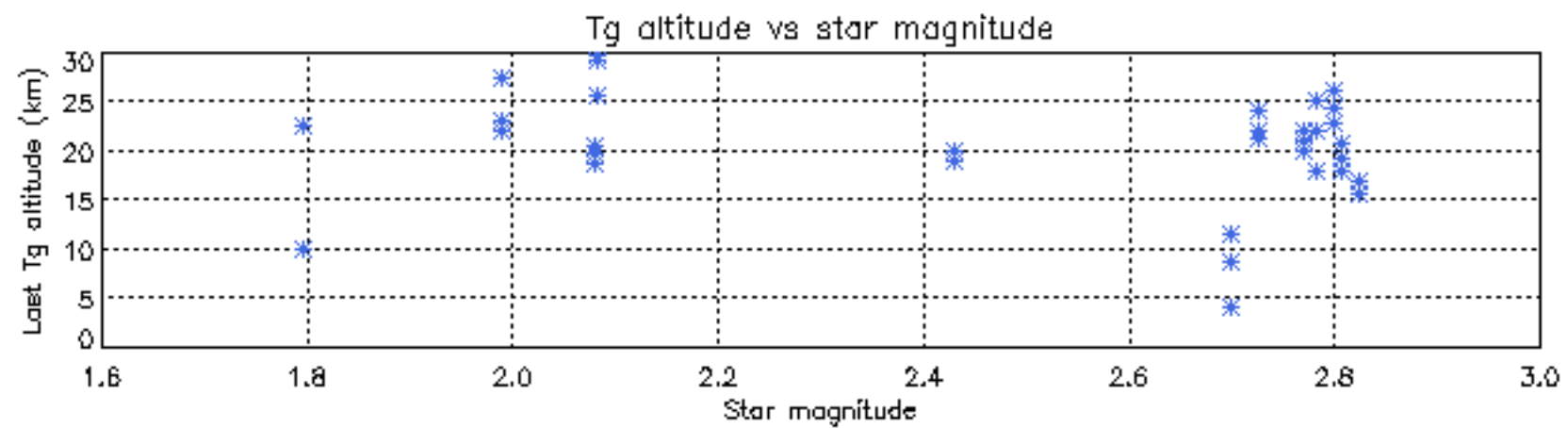
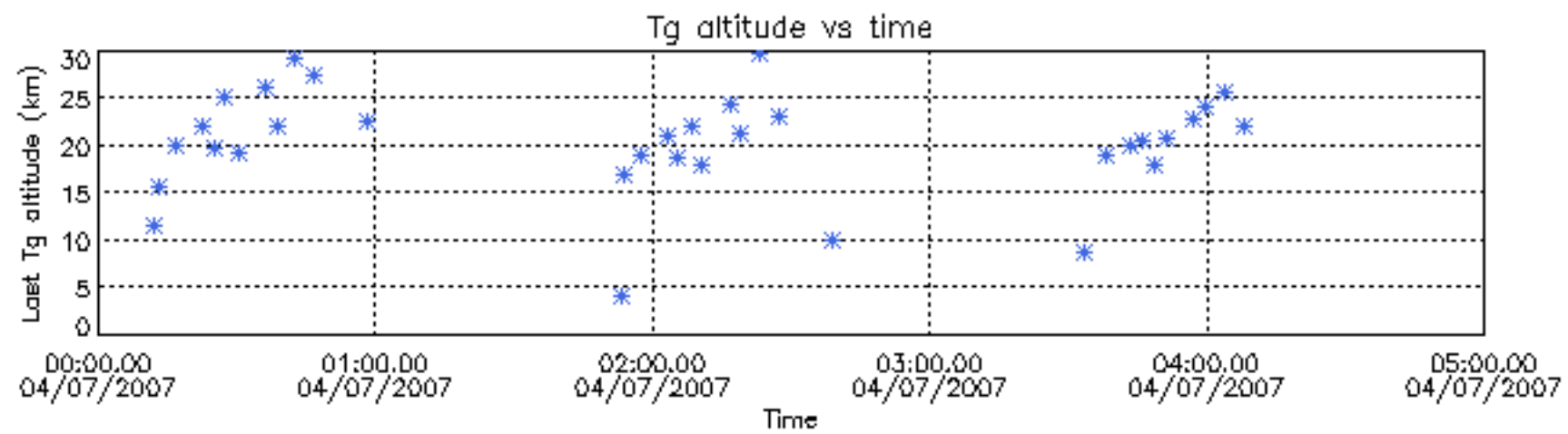
Percentage of saturation errors per profile



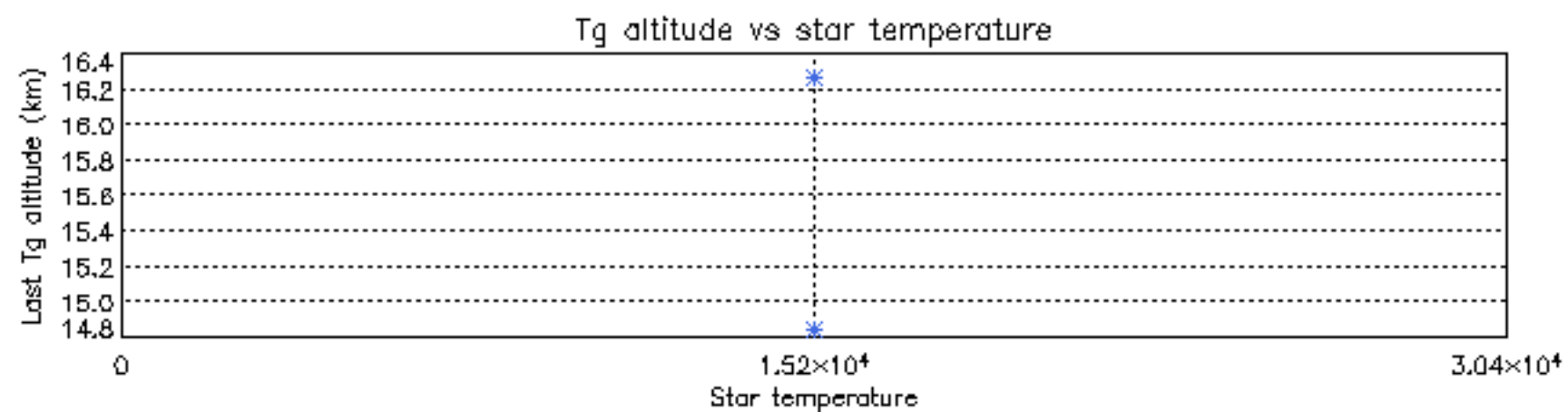
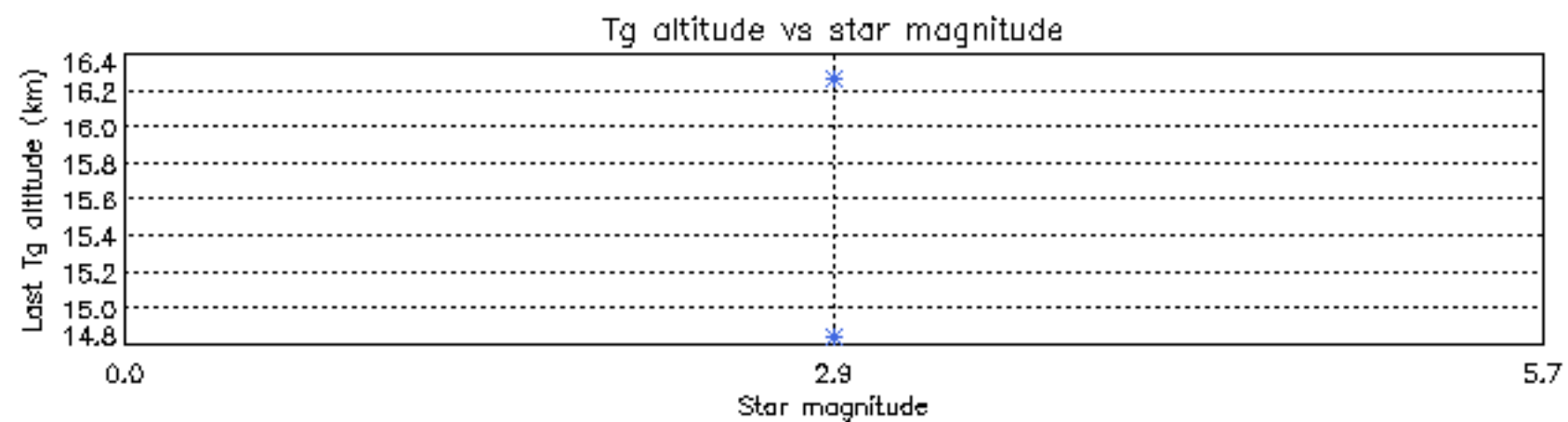
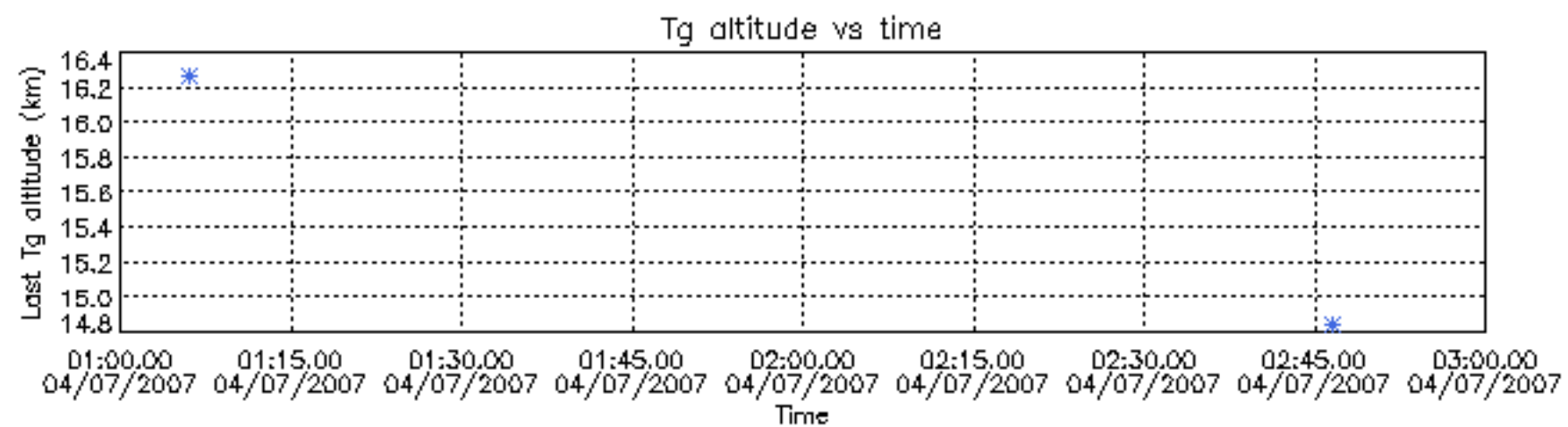
Tangent altitude at which the star is lost

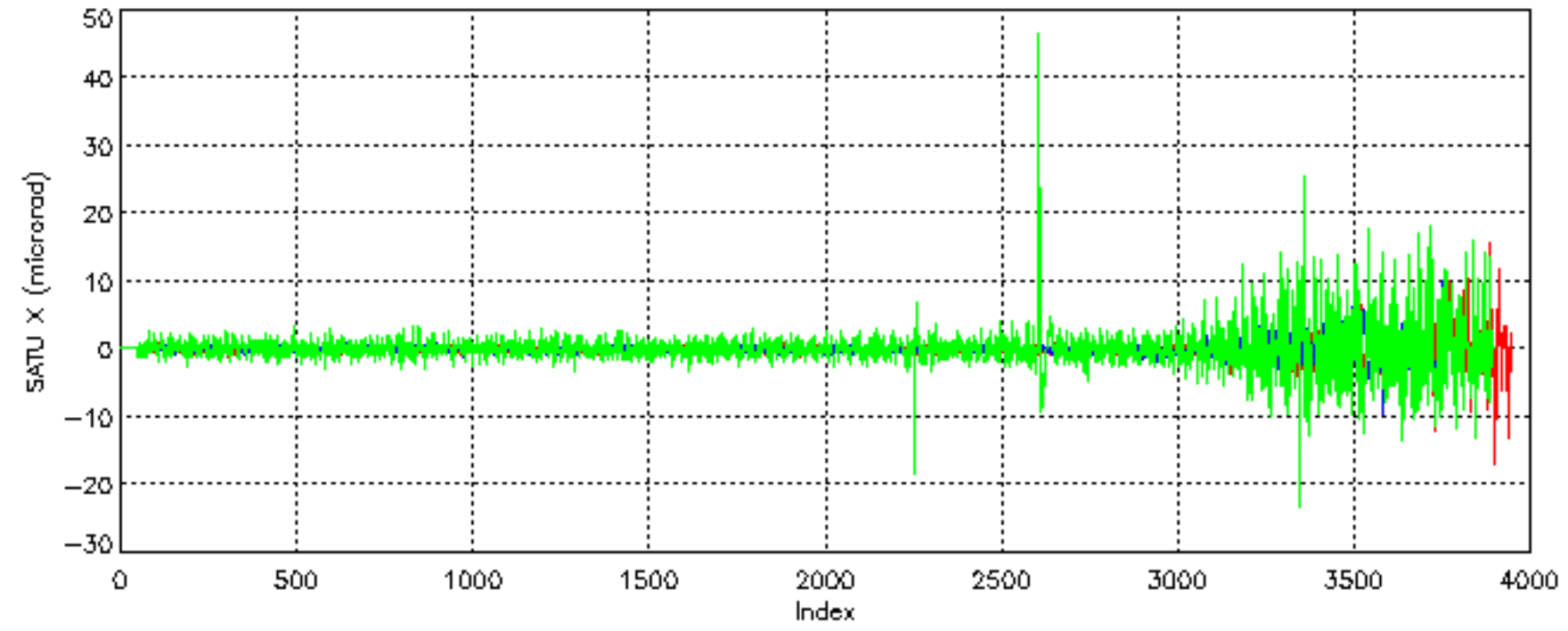


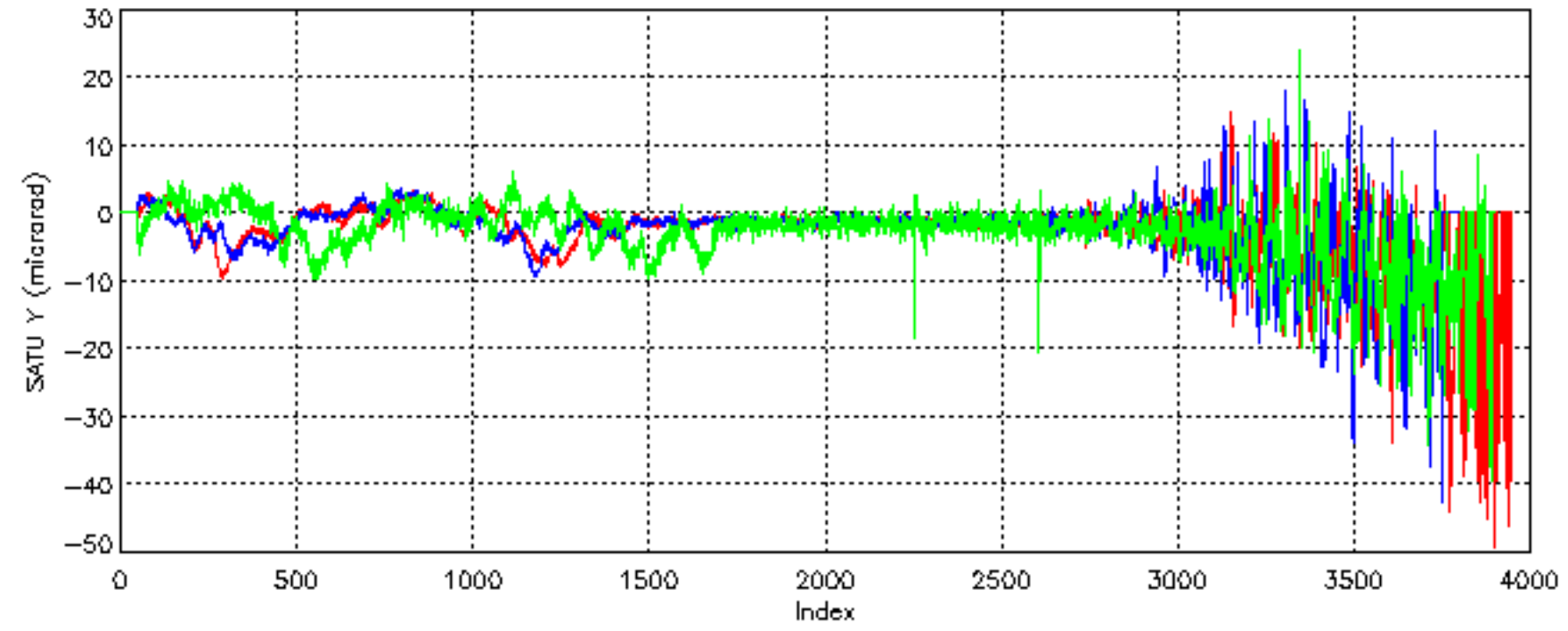
Tangent altitude at which the star is lost

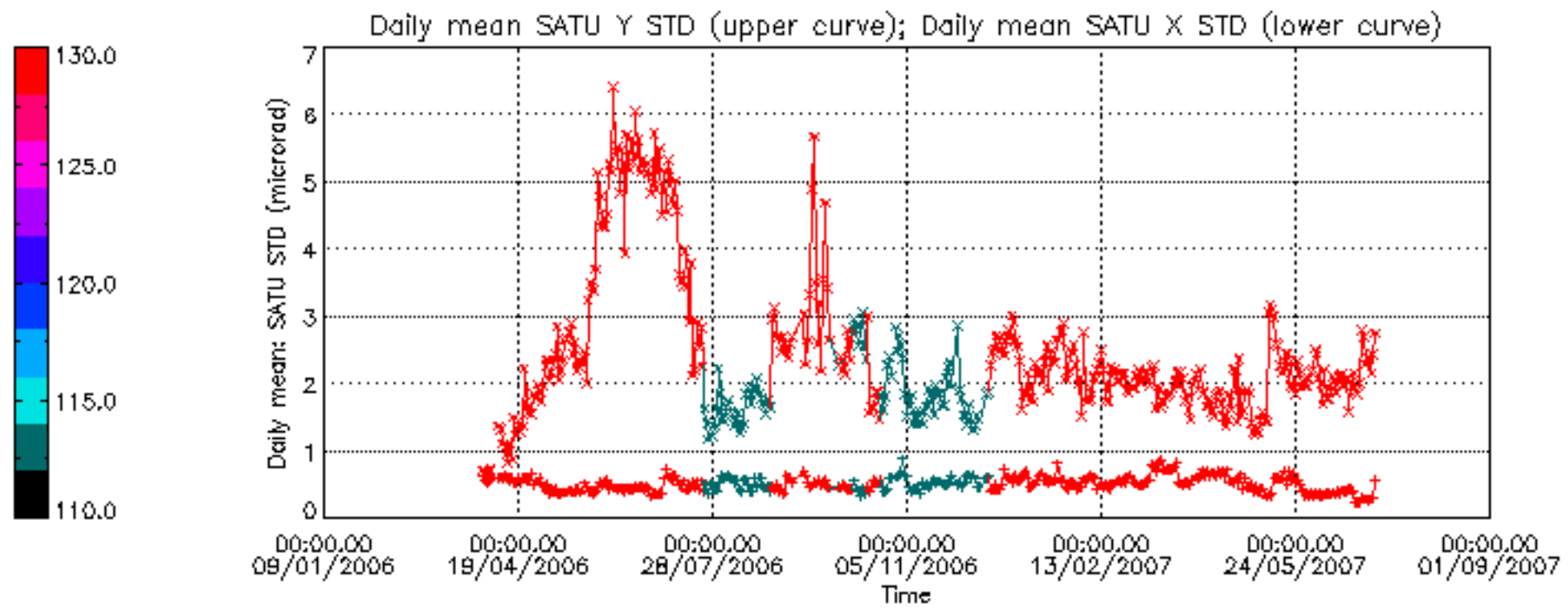


Tangent altitude at which the star is lost









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 18; 3445.4; 01-JUL-2007 02:21:07; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27884

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 6; 482.3; 01-JUL-2007 06:33:31; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;27887


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