

GOMOS Daily Report 13-JUL-2007

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

[2. Summary of products arrived in PCF \(Product Control Facility\)](#)

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

[3. Plot of Spectrometers and Photometers temperatures](#)

[4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

[5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

[6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

[7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

[Level 2 products](#)

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	15JUL2007 05:44:47
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (13JUL2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (14JUL2007 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)

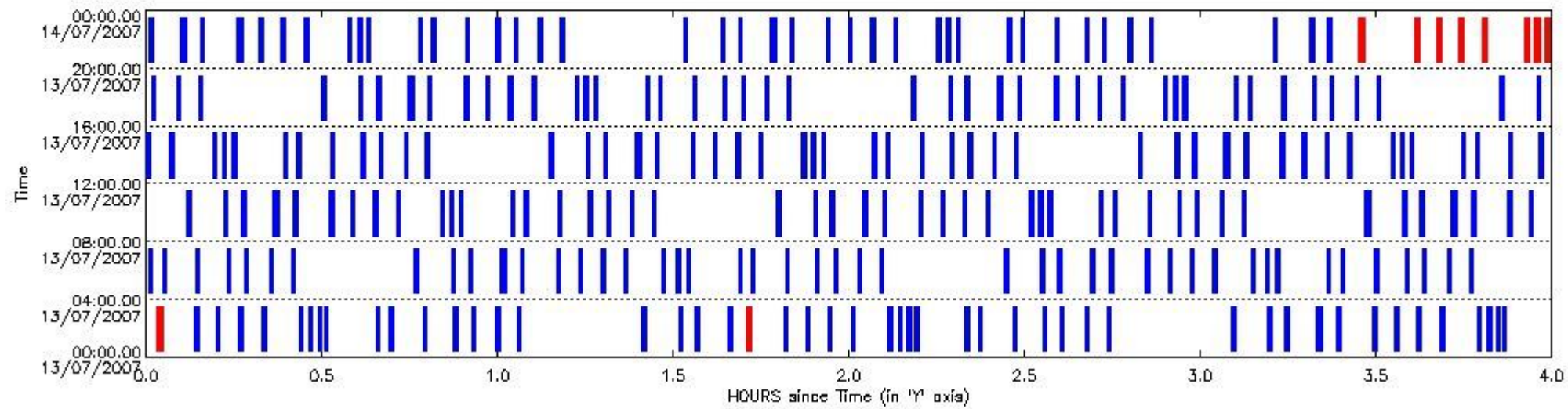
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

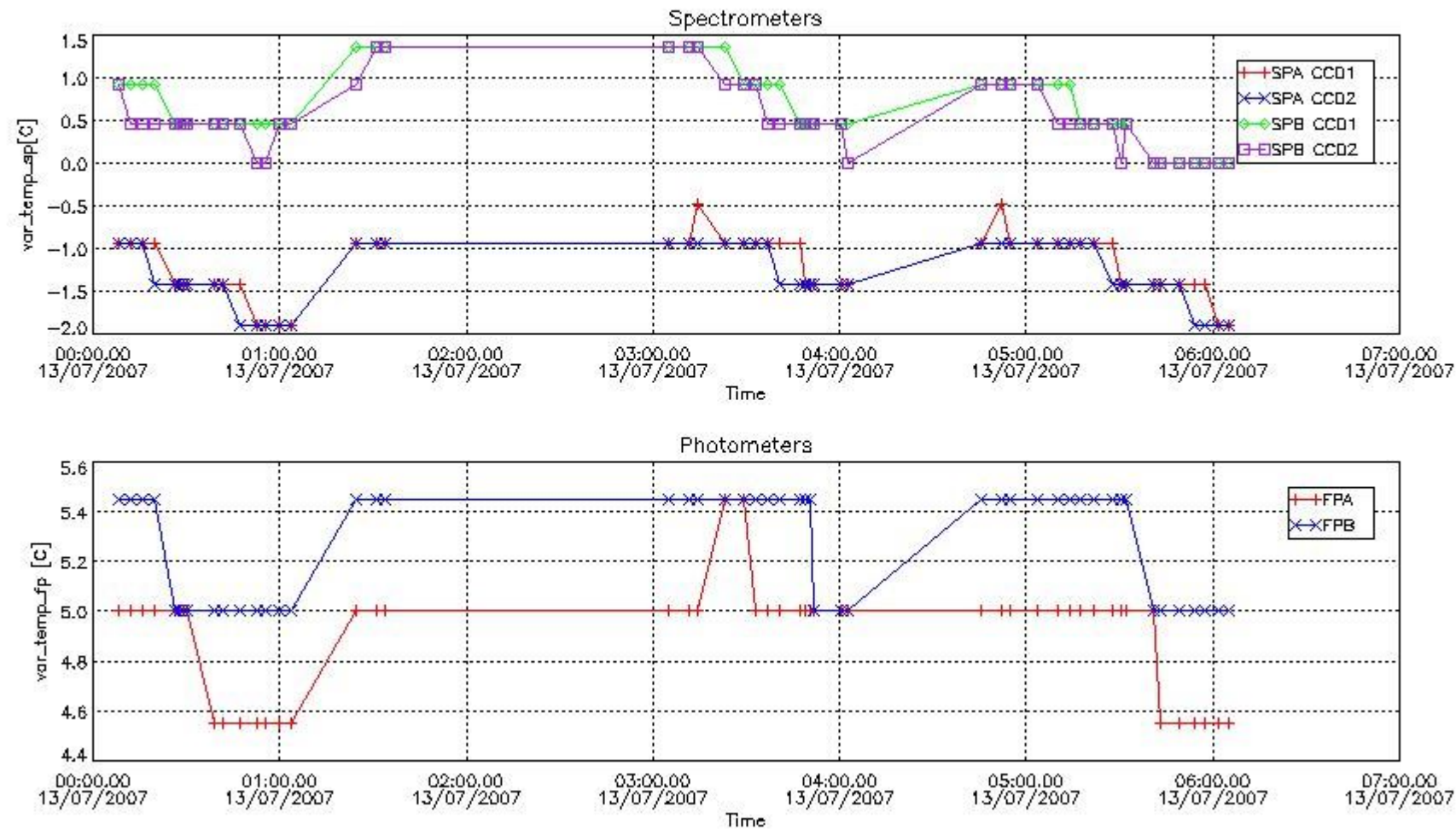
UTC start time	Star name	Star ID	Orbit
13-JUL-2007 00:01:52	The1Eri	157	28054
13-JUL-2007 01:42:28	The1Eri	157	28055
13-JUL-2007 23:26:56	DSA1061	0	28068
13-JUL-2007 23:36:34	AlpEri	9	28069
13-JUL-2007 23:40:18	BetHyi	135	28069
13-JUL-2007 23:44:07	AlpTuc	148	28069
13-JUL-2007 23:48:04	AlpPav	45	28069
13-JUL-2007 23:55:26	KapSco	85	28069
13-JUL-2007 23:57:01	38ZetSgr	103	28069
13-JUL-2007 23:58:42	22LamSgr	137	28069

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_1PNPDE20070713_000811_000000422059_00446_28055_3072.N1	13-JUL-2007 00:08:11	Dark	41.500	9	Alp Eri	0.45300	24000.	83	28055	No

2	GOM_TRA_1PNPDE20070713_001200_000000362059_00446_28055_3073.N1	13-JUL-2007 00:12:00	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	28055	No
3	GOM_TRA_1PNPDE20070713_001544_000000412059_00446_28055_3074.N1	13-JUL-2007 00:15:44	Straylight	41.000	148	Alp Tuc	2.8780	4100.0	82	28055	No
4	GOM_TRA_1PNPDE20070713_001944_000000412059_00446_28055_3075.N1	13-JUL-2007 00:19:44	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	28055	No
5	GOM_TRA_1PNPDE20070713_002606_000000422059_00446_28055_3076.N1	13-JUL-2007 00:26:06	Twilight	42.000	40	The Sco	1.8590	7100.0	84	28055	No
6	GOM_TRA_1PNPDE20070713_002746_000000402059_00446_28055_3077.N1	13-JUL-2007 00:27:46	Bright	39.500	25	35Lam Sco	1.6200	28000.	79	28055	No
7	GOM_TRA_1PNPDE20070713_002916_000000392059_00446_28055_3078.N1	13-JUL-2007 00:29:16	Bright	39.000	116	19Del Sgr	2.7000	4100.0	78	28055	No
8	GOM_TRA_1PNPDE20070713_003025_000000382059_00446_28055_3079.N1	13-JUL-2007 00:30:25	Bright	38.000	137	22Lam Sgr	2.8240	4400.0	76	28055	No
9	GOM_TRA_1PNPDE20070713_003914_000000362059_00446_28055_3080.N1	13-JUL-2007 00:39:14	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	28055	No
10	GOM_TRA_1PNPDE20070713_004132_000000372059_00446_28055_3081.N1	13-JUL-2007 00:41:32	Bright	36.500	59	55Alp Oph	2.0800	8900.0	73	28055	No
11	GOM_TRA_1PNPDE20070713_004718_000000342059_00446_28055_3082.N1	13-JUL-2007 00:47:18	Bright	33.500	133	40Zet Her	2.8070	6000.0	67	28055	No
12	GOM_TRA_1PNPDE20070713_005231_000000342059_00446_28055_3083.N1	13-JUL-2007 00:52:31	Bright	34.000	69	33Gam Dra	2.2310	3800.0	68	28055	No
13	GOM_TRA_1PNPDE20070713_005533_000000352059_00446_28055_3084.N1	13-JUL-2007 00:55:33	Bright	35.000	119	14Eta Dra	2.7270	4700.0	70	28055	No
14	GOM_TRA_1PNPDE20070713_005945_000000362059_00446_28055_3085.N1	13-JUL-2007 00:59:45	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	28055	No
15	GOM_TRA_1PNPDE20070713_010329_000000332059_00446_28055_3086.N1	13-JUL-2007 01:03:29	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	28055	No
16	GOM_TRA_1PNPDE20070713_012432_000000452059_00446_28055_3087.N1	13-JUL-2007 01:24:32	Twilight	44.500	13	87Alp Tau	0.86700	3800.0	89	28055	No
17	GOM_TRA_1PNPDE20070713_013054_000000392059_00446_28055_3088.N1	13-JUL-2007 01:30:54	Dark	38.500	7	19Bet Ori	0.10000	14000.	77	28055	No
18	GOM_TRA_1PNPDE20070713_013345_000000402059_00446_28055_3089.N1	13-JUL-2007 01:33:45	Dark	39.500	165	34Gam Eri	2.9500	3200.0	79	28055	No
19	GOM_TRA_1PNPDE20070713_030509_000000512059_00447_28056_3389.N1	13-JUL-2007 03:05:09	Twilight	50.500	13	87Alp Tau	0.86700	3800.0	101	28056	No
20	GOM_TRA_1PNPDE20070713_031130_000000392059_00447_28056_3390.N1	13-JUL-2007 03:11:30	Dark	39.000	7	19Bet Ori	0.10000	14000.	78	28056	No
21	GOM_TRA_1PNPDE20070713_031422_000000452059_00447_28056_3391.N1	13-JUL-2007 03:14:22	Dark	44.500	165	34Gam Eri	2.9500	3200.0	89	28056	No
22	GOM_TRA_1PNPDE20070713_032314_000000412059_00447_28056_3392.N1	13-JUL-2007 03:23:14	Dark	41.000	157	The1Eri	2.9060	9300.0	82	28056	No
23	GOM_TRA_1PNPDE20070713_032924_000000422059_00448_28057_3393.N1	13-JUL-2007 03:29:24	Dark	41.500	9	Alp Eri	0.45300	24000.	83	28057	No
24	GOM_TRA_1PNPDE20070713_033313_000000362059_00448_28057_3394.N1	13-JUL-2007 03:33:13	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	28057	No
25	GOM_TRA_1PNPDE20070713_033657_000000442059_00448_28057_3395.N1	13-JUL-2007 03:36:57	Straylight	44.000	148	Alp Tuc	2.8780	4100.0	88	28057	No
26	GOM_TRA_1PNPDE20070713_034057_000000432059_00448_28057_3396.N1	13-JUL-2007 03:40:57	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	28057	No
27	GOM_TRA_1PNPDE20070713_034718_000000382059_00448_28057_3397.N1	13-JUL-2007 03:47:18	Twilight	38.000	40	The Sco	1.8590	7100.0	76	28057	No
28	GOM_TRA_1PNPDE20070713_034858_000000412059_00448_28057_3398.N1	13-JUL-2007 03:48:58	Bright	41.000	25	35Lam Sco	1.6200	28000.	82	28057	No
29	GOM_TRA_1PNPDE20070713_035028_000000382059_00448_28057_3399.N1	13-JUL-2007 03:50:28	Bright	38.000	116	19Del Sgr	2.7000	4100.0	76	28057	No
30	GOM_TRA_1PNPDE20070713_035138_000000382059_00448_28057_3400.N1	13-JUL-2007 03:51:38	Bright	38.000	137	22Lam Sgr	2.8240	4400.0	76	28057	No
31	GOM_TRA_1PNPDE20070713_040027_000000352059_00448_28057_3401.N1	13-JUL-2007 04:00:27	Bright	34.500	126	60Bet Oph	2.7700	4250.0	69	28057	No
32	GOM_TRA_1PNPDE20070713_040244_000000352059_00448_28057_3402.N1	13-JUL-2007 04:02:44	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	28057	No
33	GOM_TRA_1PNPDE20070713_044545_000000462059_00448_28057_3248.N1	13-JUL-2007 04:45:45	Twilight	46.000	13	87Alp Tau	0.86700	3800.0	92	28057	No
34	GOM_TRA_1PNPDE20070713_045206_000000412059_00448_28057_3249.N1	13-JUL-2007 04:52:06	Dark	41.000	7	19Bet Ori	0.10000	14000.	82	28057	No
35	GOM_TRA_1PNPDE20070713_045458_000000452059_00448_28057_3250.N1	13-JUL-2007 04:54:58	Dark	44.500	165	34Gam Eri	2.9500	3200.0	89	28057	No
36	GOM_TRA_1PNPDE20070713_050350_000000422059_00448_28057_3251.N1	13-JUL-2007 05:03:50	Dark	41.500	157	The1Eri	2.9060	9300.0	83	28057	No
37	GOM_TRA_1PNPDE20070713_051001_000000432059_00449_28058_3252.N1	13-JUL-2007 05:10:01	Dark	43.000	9	Alp Eri	0.45300	24000.	86	28058	No
38	GOM_TRA_1PNPDE20070713_051349_000000382059_00449_28058_3253.N1	13-JUL-2007 05:13:49	Dark	38.000	135	Bet Hyi	2.8200	5800.0	76	28058	No
39	GOM_TRA_1PNPDE20070713_051734_000000442059_00449_28058_3254.N1	13-JUL-2007 05:17:34	Straylight	44.000	148	Alp Tuc	2.8780	4100.0	88	28058	No
40	GOM_TRA_1PNPDE20070713_052134_000000412059_00449_28058_3255.N1	13-JUL-2007 05:21:34	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	28058	No
41	GOM_TRA_1PNPDE20070713_052754_000000402059_00449_28058_3256.N1	13-JUL-2007 05:27:54	Twilight	40.000	40	The Sco	1.8590	7100.0	80	28058	No
42	GOM_TRA_1PNPDE20070713_053032_000000452059_00449_28058_3257.N1	13-JUL-2007 05:30:32	Bright	44.500	103	38Zet Sgr	2.6000	9700.0	89	28058	No
43	GOM_TRA_1PNPDE20070713_053214_000000372059_00449_28058_3258.N1	13-JUL-2007 05:32:14	Bright	37.000	137	22Lam Sgr	2.8240	4400.0	74	28058	No
44	GOM_TRA_1PNPDE20070713_054103_000000362059_00449_28058_3259.N1	13-JUL-2007 05:41:03	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	28058	No
45	GOM_TRA_1PNPDE20070713_054320_000000362059_00449_28058_3260.N1	13-JUL-2007 05:43:20	Bright	35.500	59	55Alp Oph	2.0800	8900.0	71	28058	No
46	GOM_TRA_1PNPDE20070713_054907_000000352059_00449_28058_3261.N1	13-JUL-2007 05:49:07	Bright	35.000	133	40Zet Her	2.8070	6000.0	70	28058	No
47	GOM_TRA_1PNPDE20070713_055419_000000372059_00449_28058_3262.N1	13-JUL-2007 05:54:19	Bright	36.500	69	33Gam Dra	2.2310	3800.0	73	28058	No
48	GOM_TRA_1PNPDE20070713_055722_000000362059_00449_28058_3263.N1	13-JUL-2007 05:57:22	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	28058	No
49	GOM_TRA_1PNPDE20070713_060133_000000372059_00449_28058_3264.N1	13-JUL-2007 06:01:33	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	28058	No
50	GOM_TRA_1PNPDE20070713_060517_000000362059_00449_28058_3265.N1	13-JUL-2007 06:05:17	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	28058	No

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



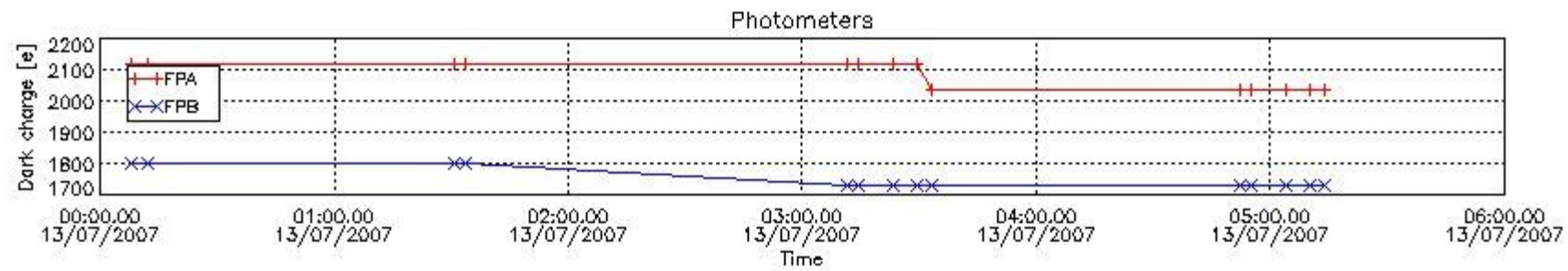
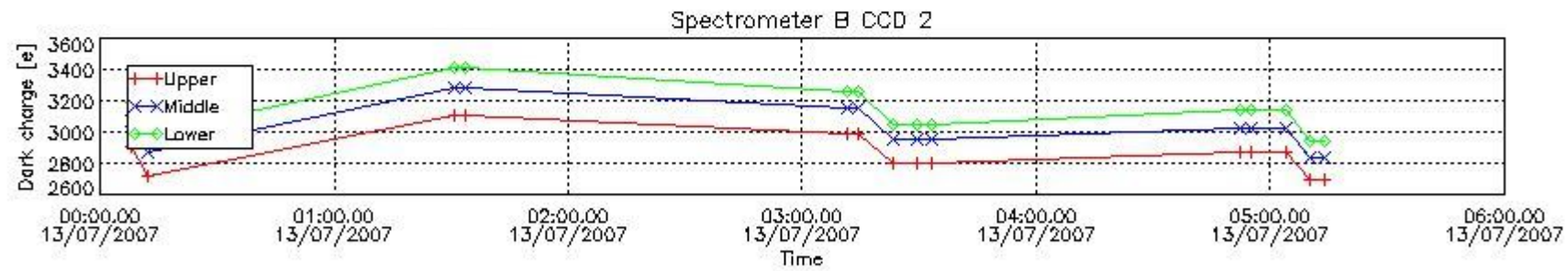
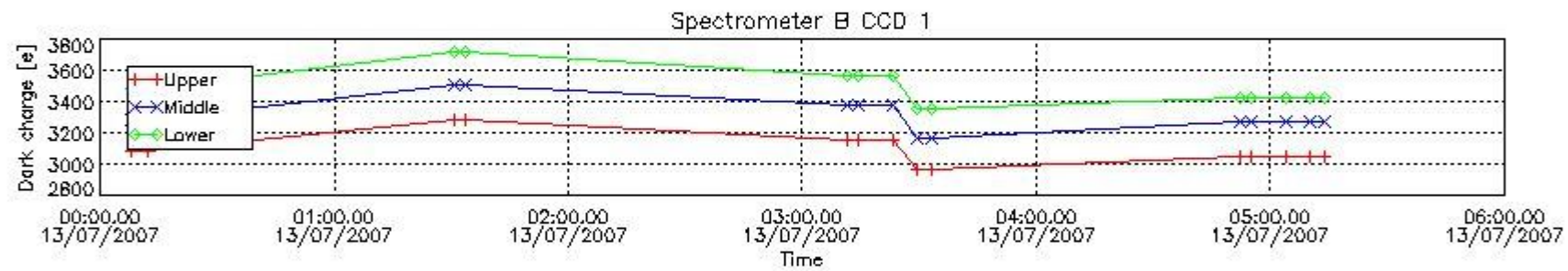
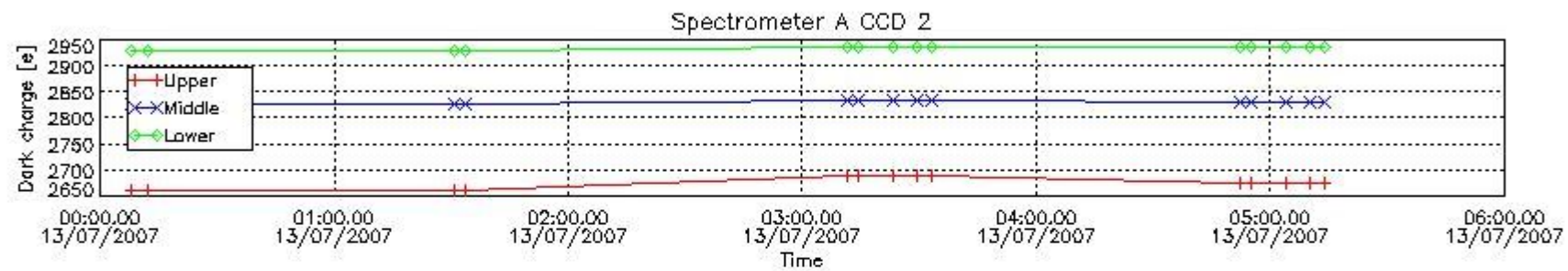
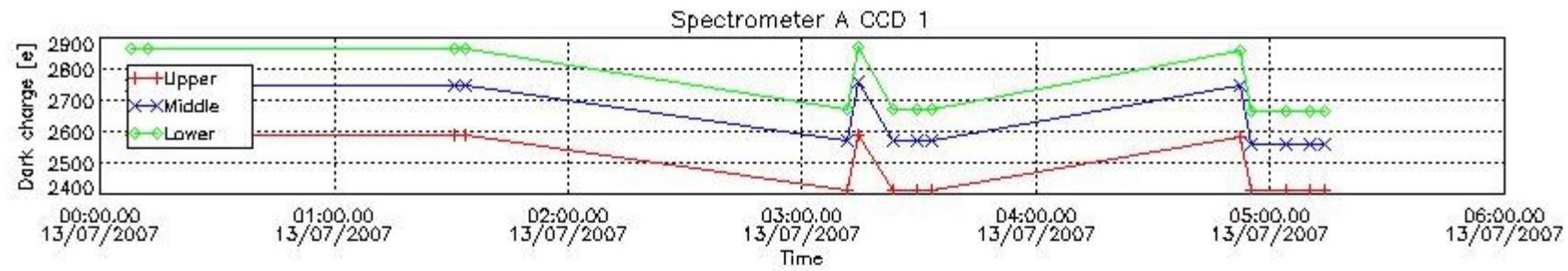
4. Overview of dark signal processing per product

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



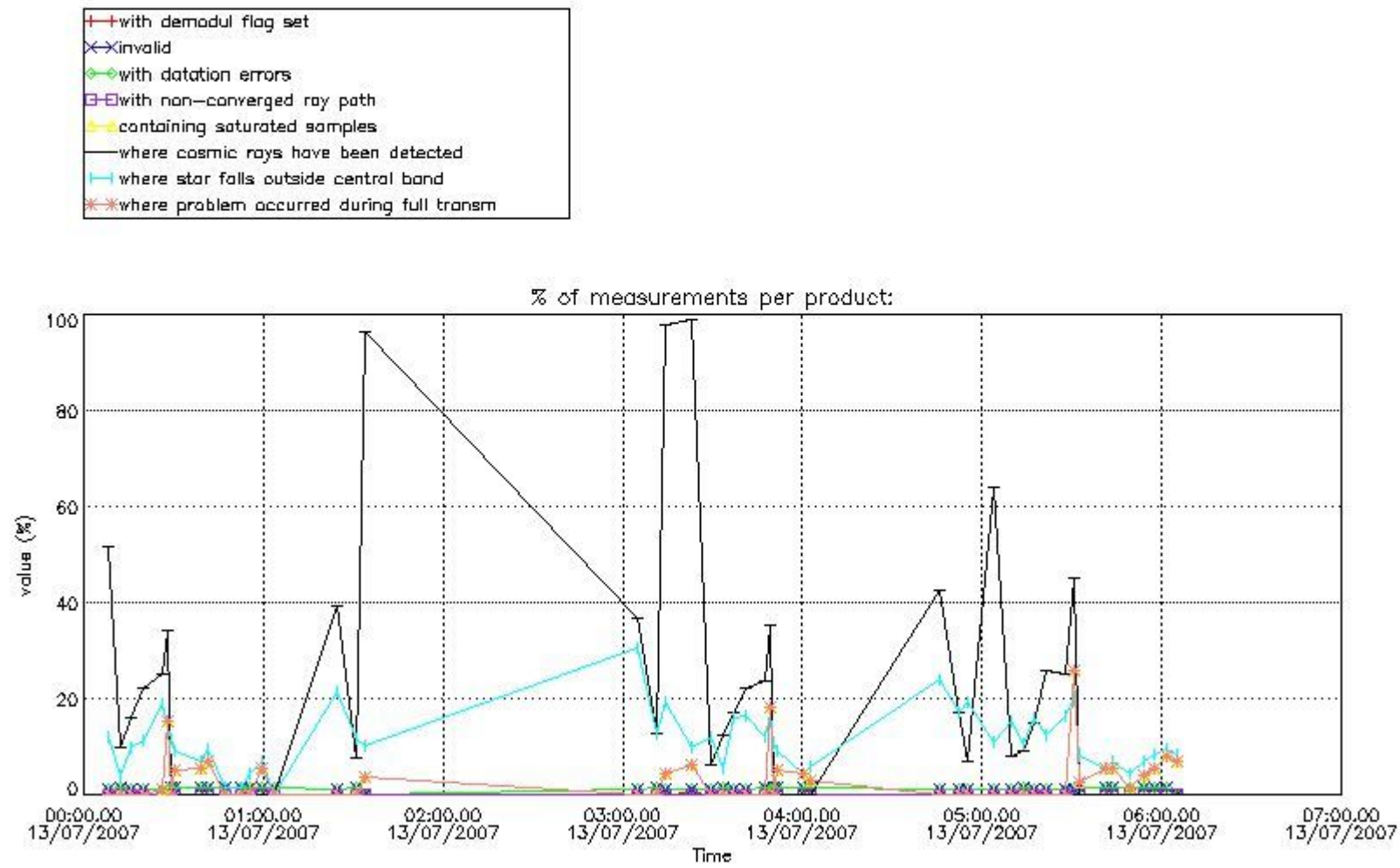
5. Demodulation flag and quality information monitoring

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.

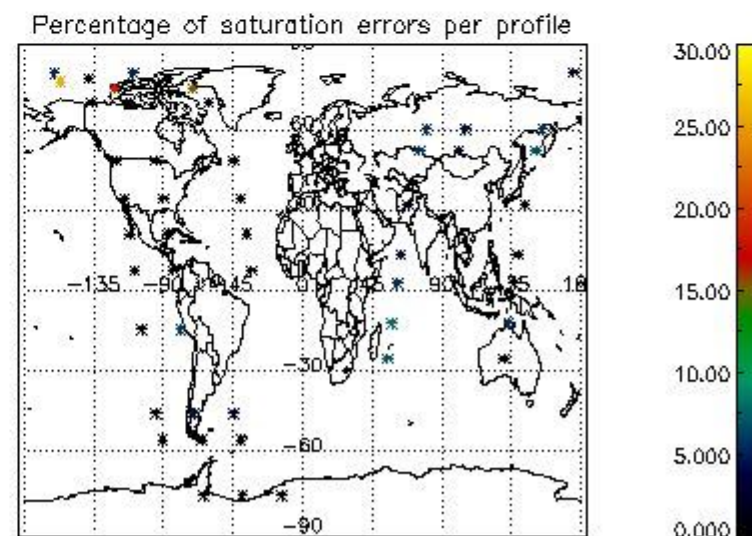
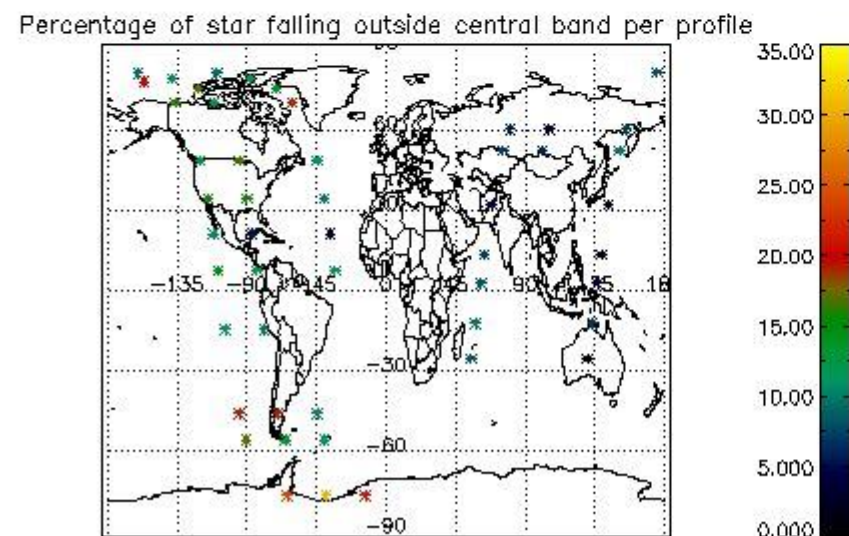
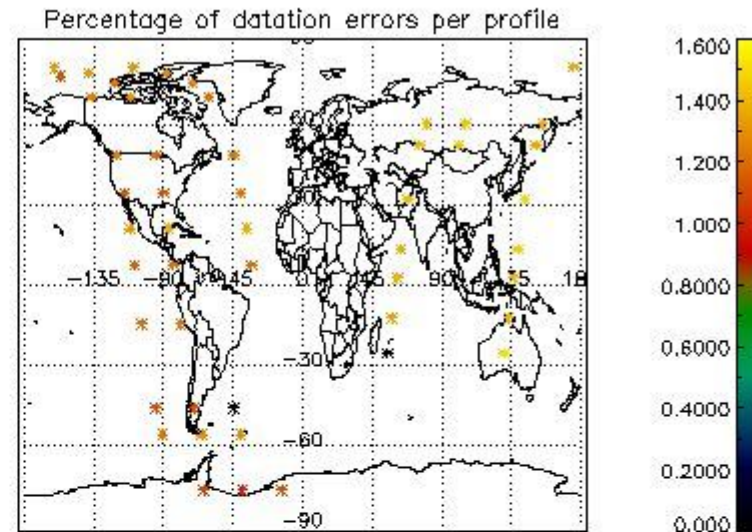
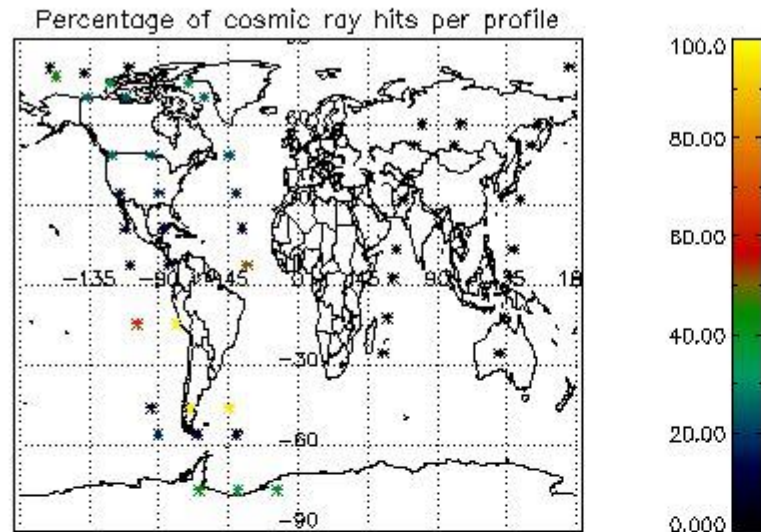
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.0000 %
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)



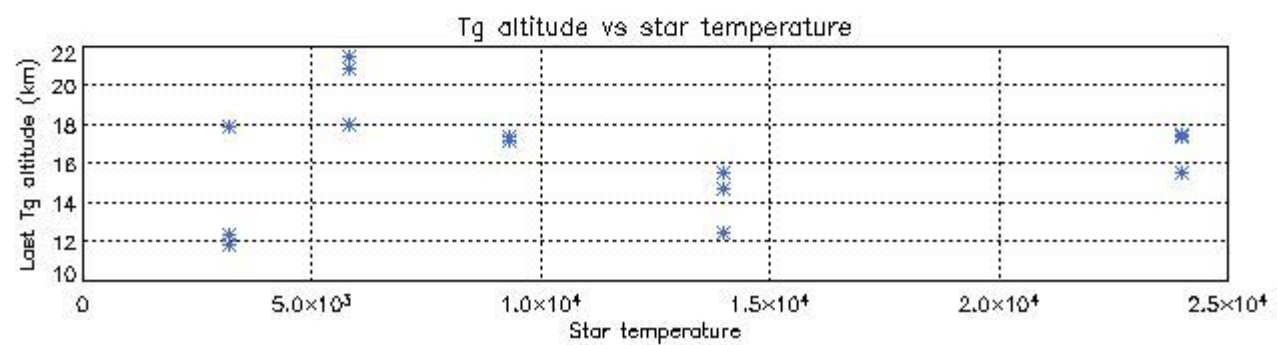
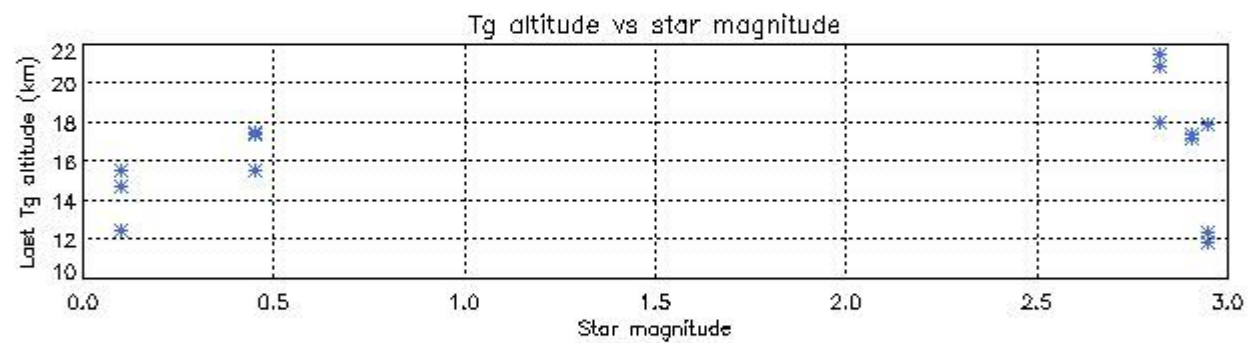
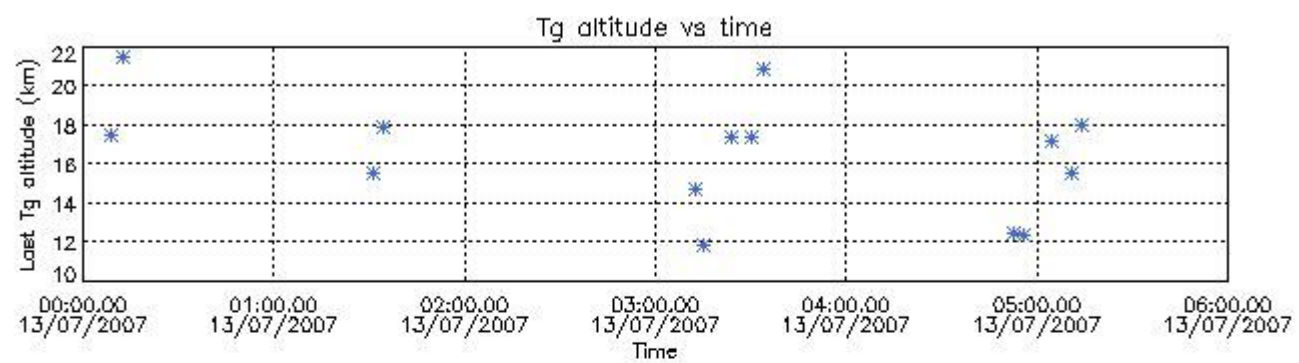
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.441	20.123	8.9164
St. deviation:	2.9222	3.6507	2.5369
Maximum:	21.471	27.618	10.963
Minimum:	11.872	12.515	6.0782
Number of data:	14.000	24.000	3.0000

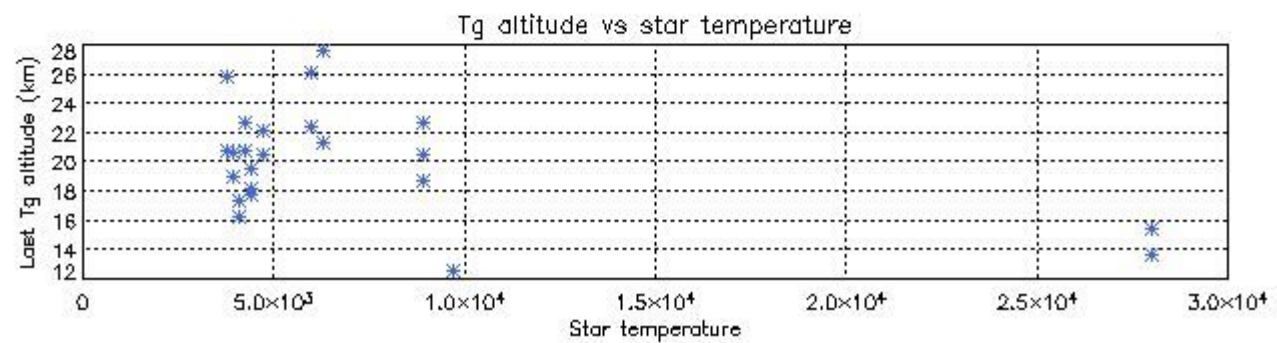
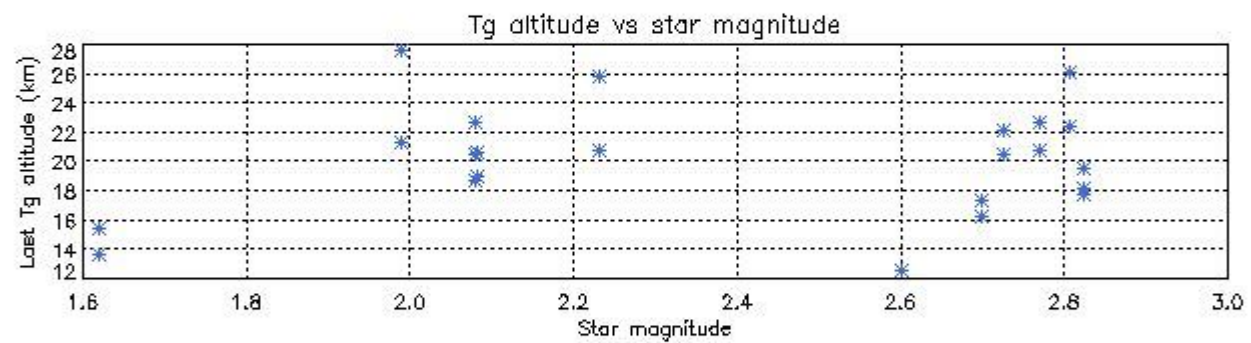
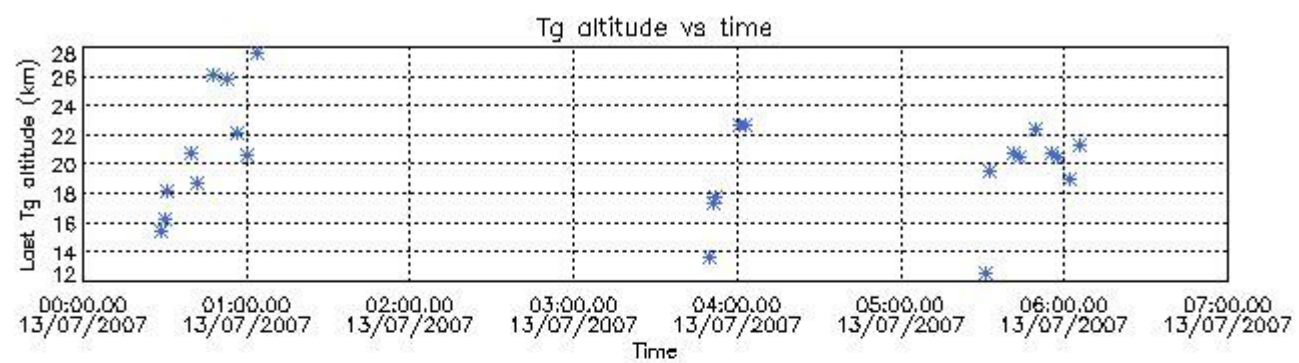
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



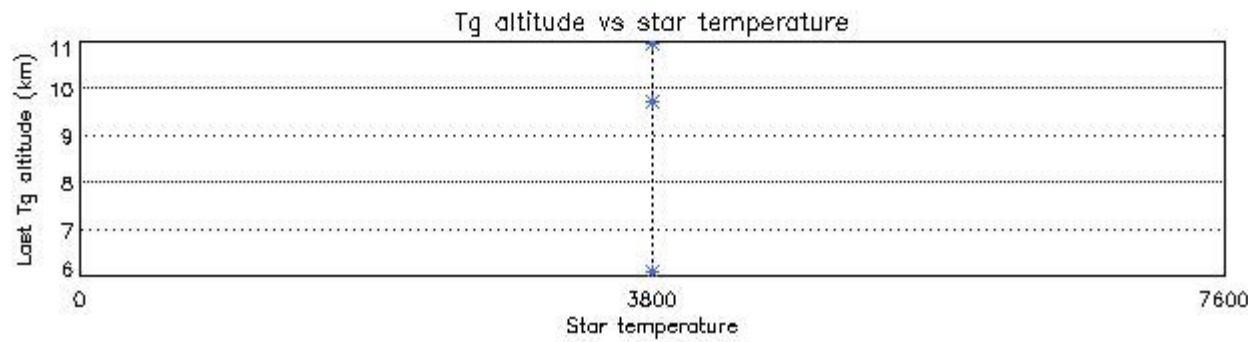
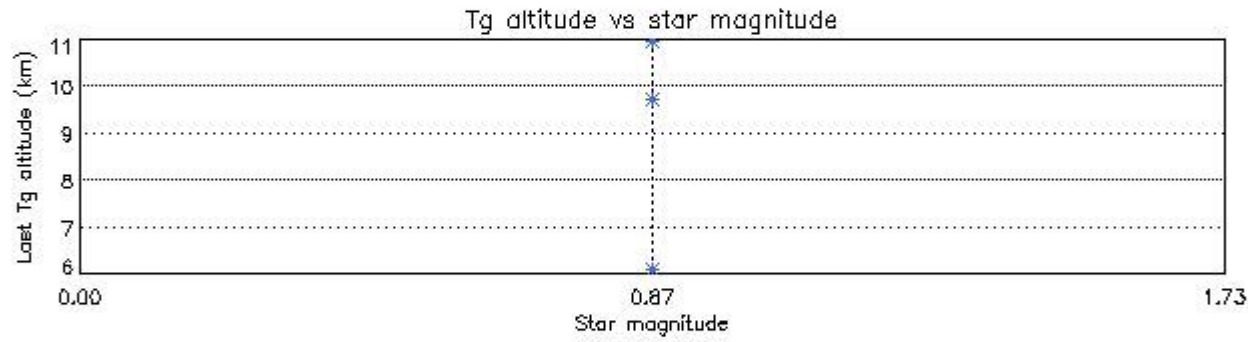
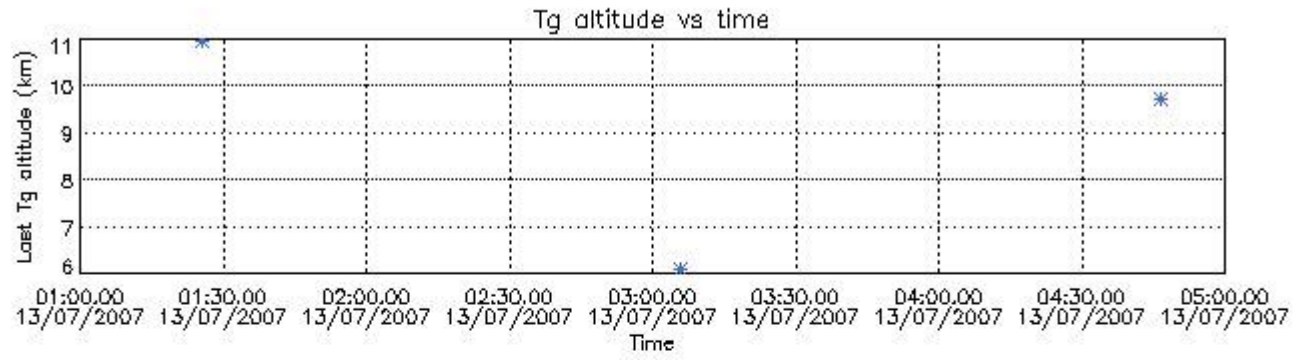
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

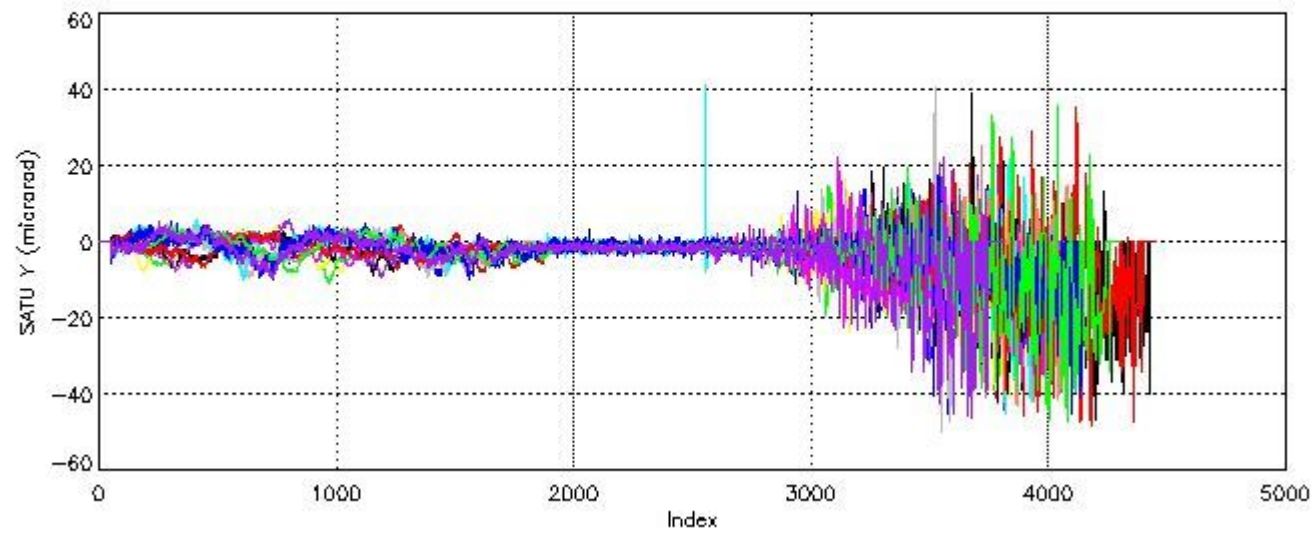
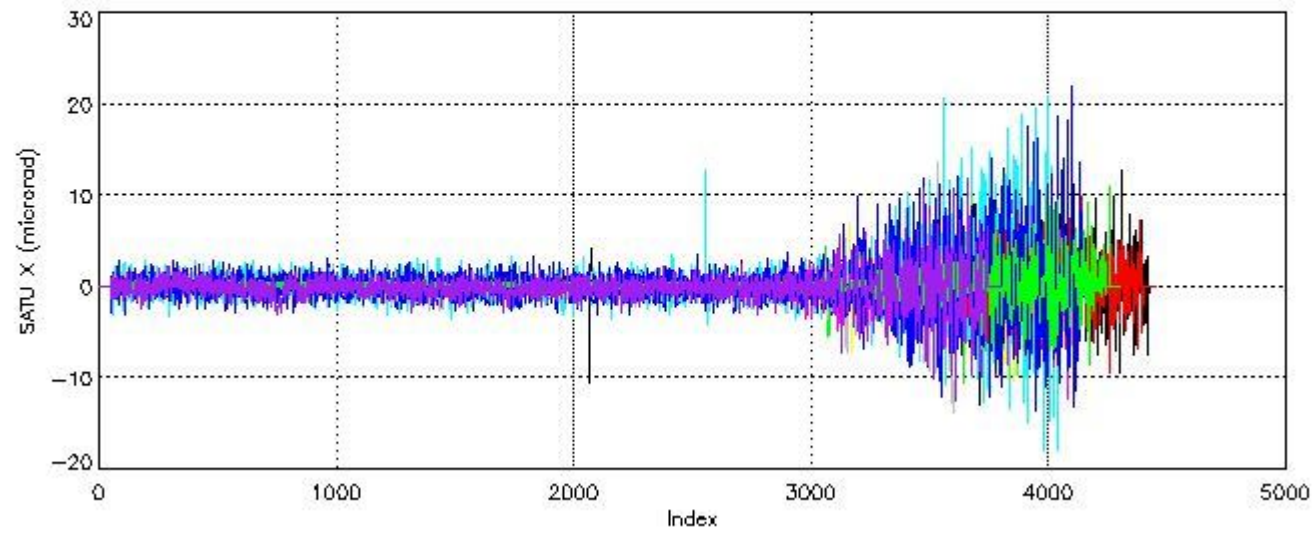


7. Star Acquisition and Tracking Unit (SATU)

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:	-0.0041134	-0.94162	0.063329	-0.88384
St. deviation:	0.47294	2.5350	0.60964	2.7942
Maximum:	2.9000	5.8000	3.1000	6.1000
Minimum:	-3.4000	-10.100	-3.5000	-10.600

Number of data:	12750.	12750.	19850.	19850.
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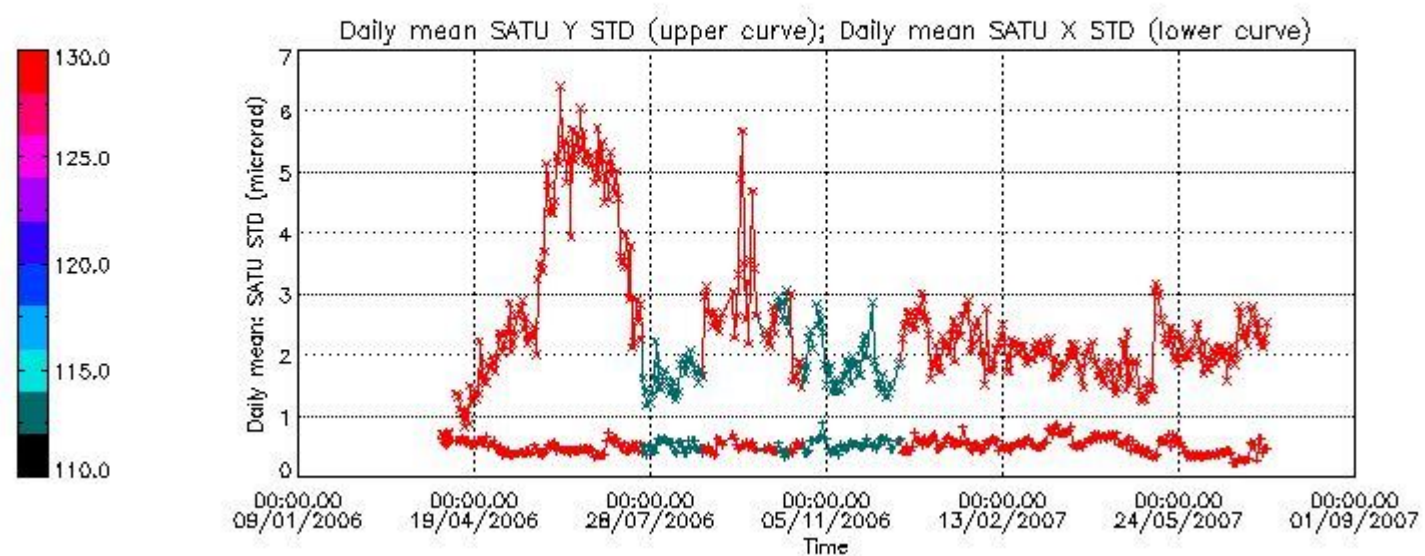
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

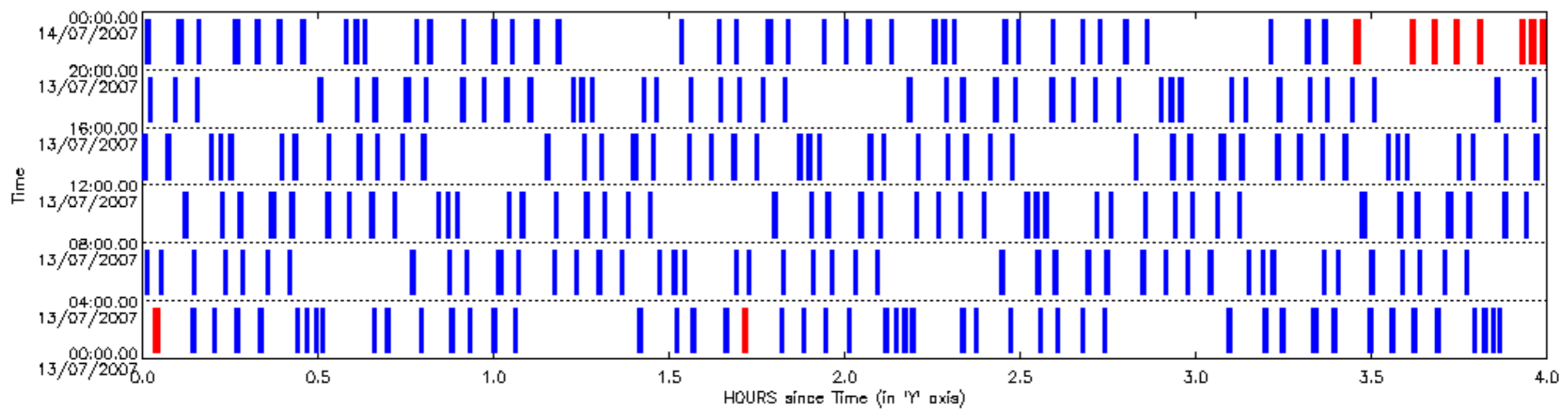
Lower curve: STD of SATU X axis

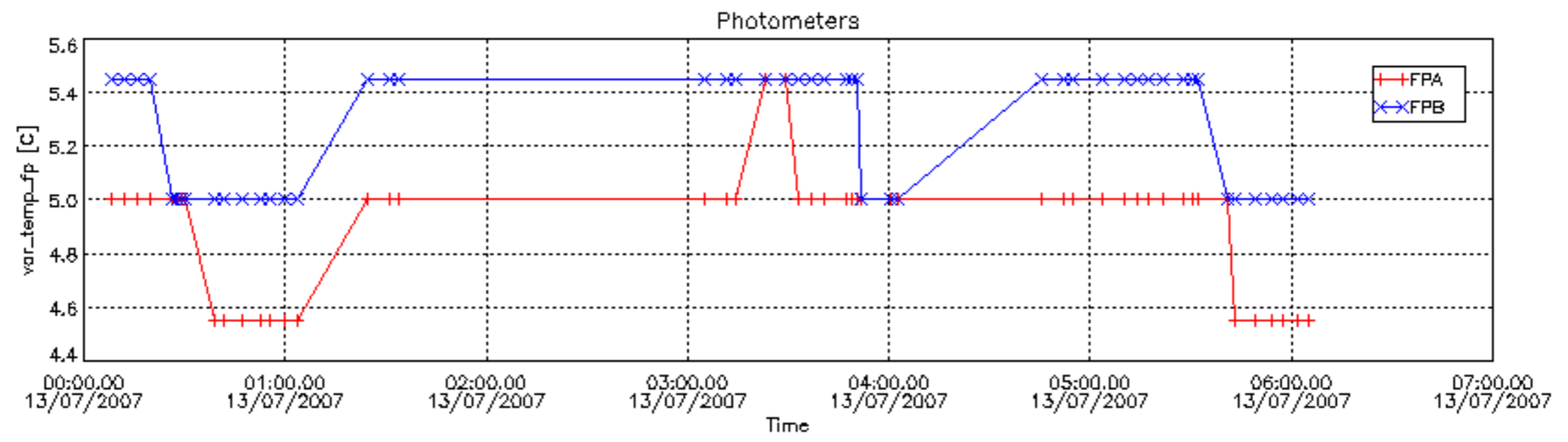
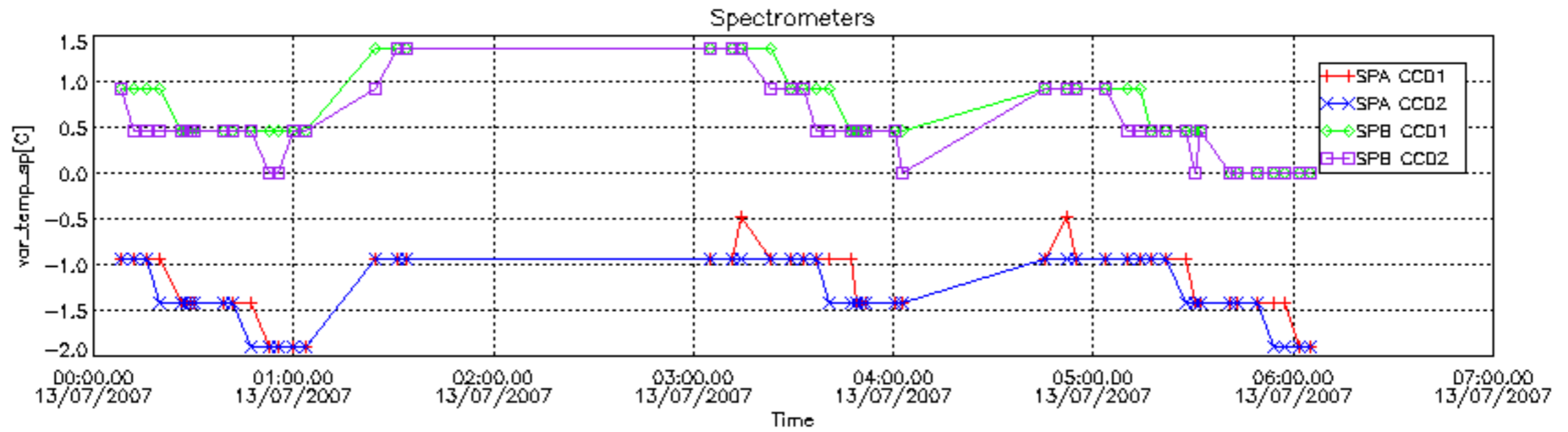


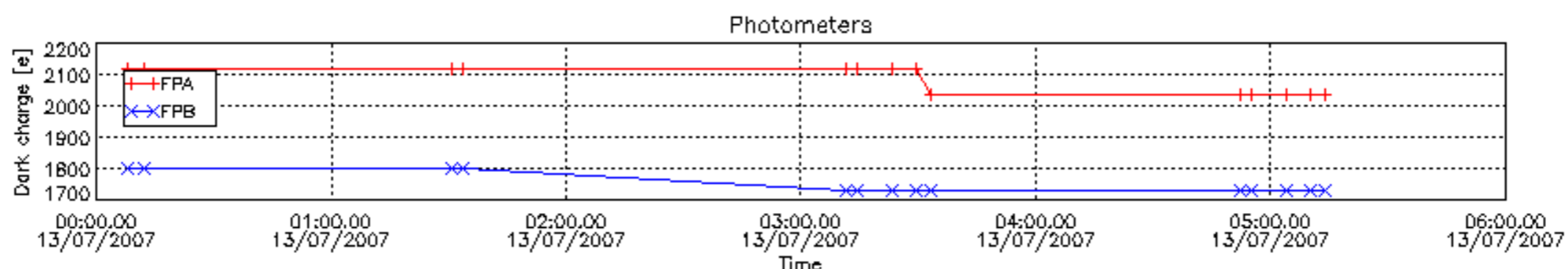
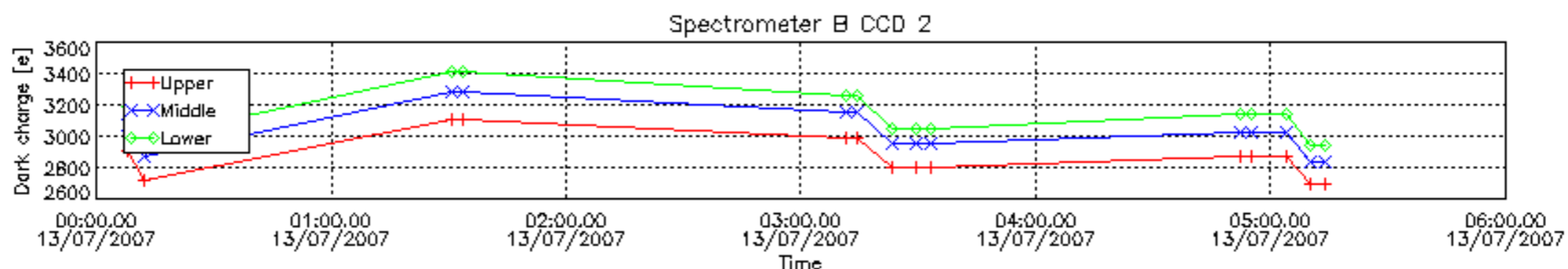
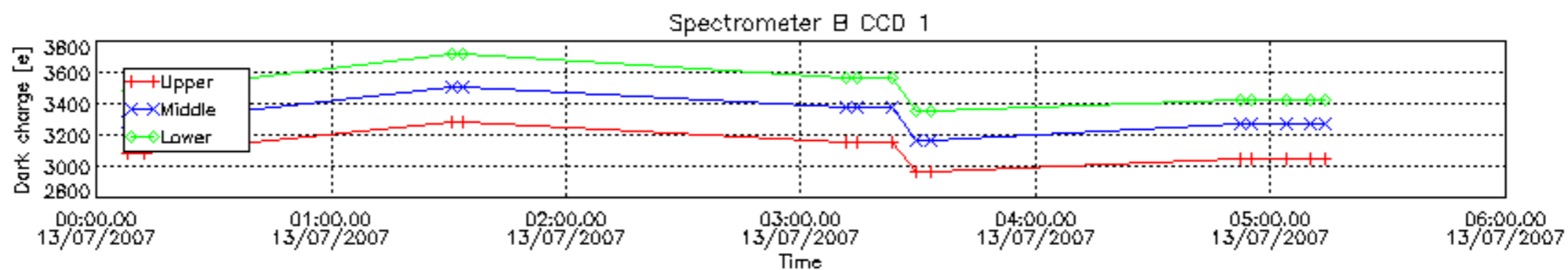
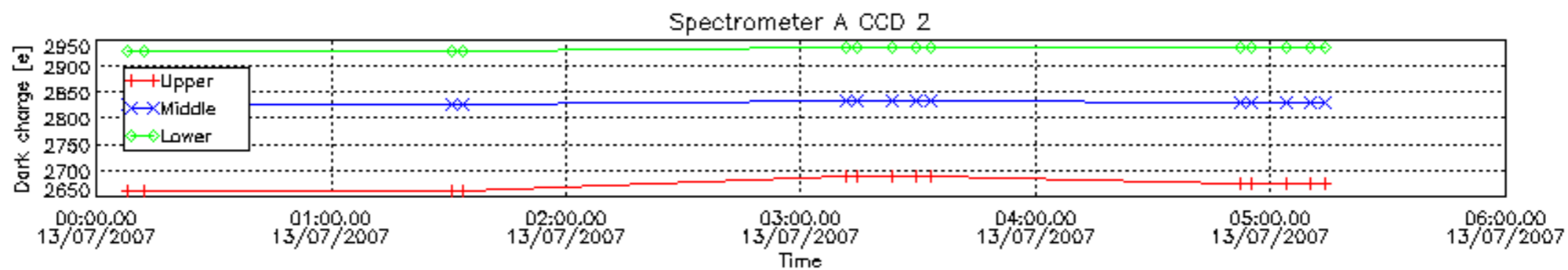
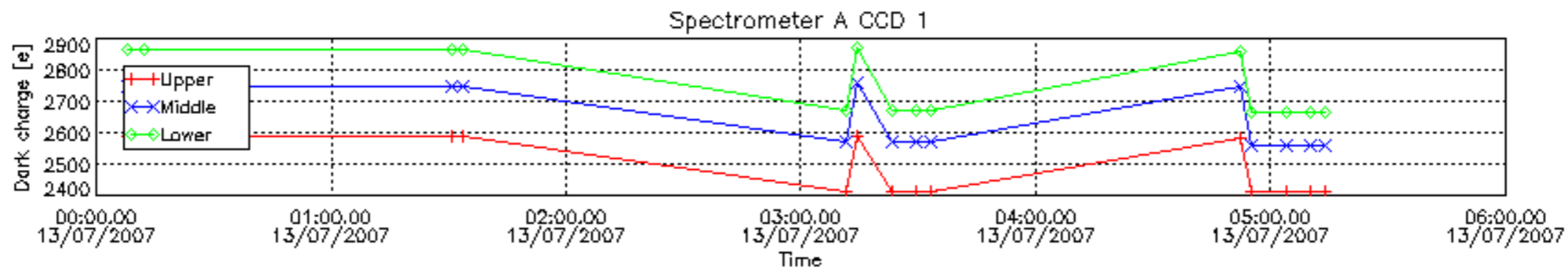
8. Auxiliary Data Files used for the production reported in section 2.4

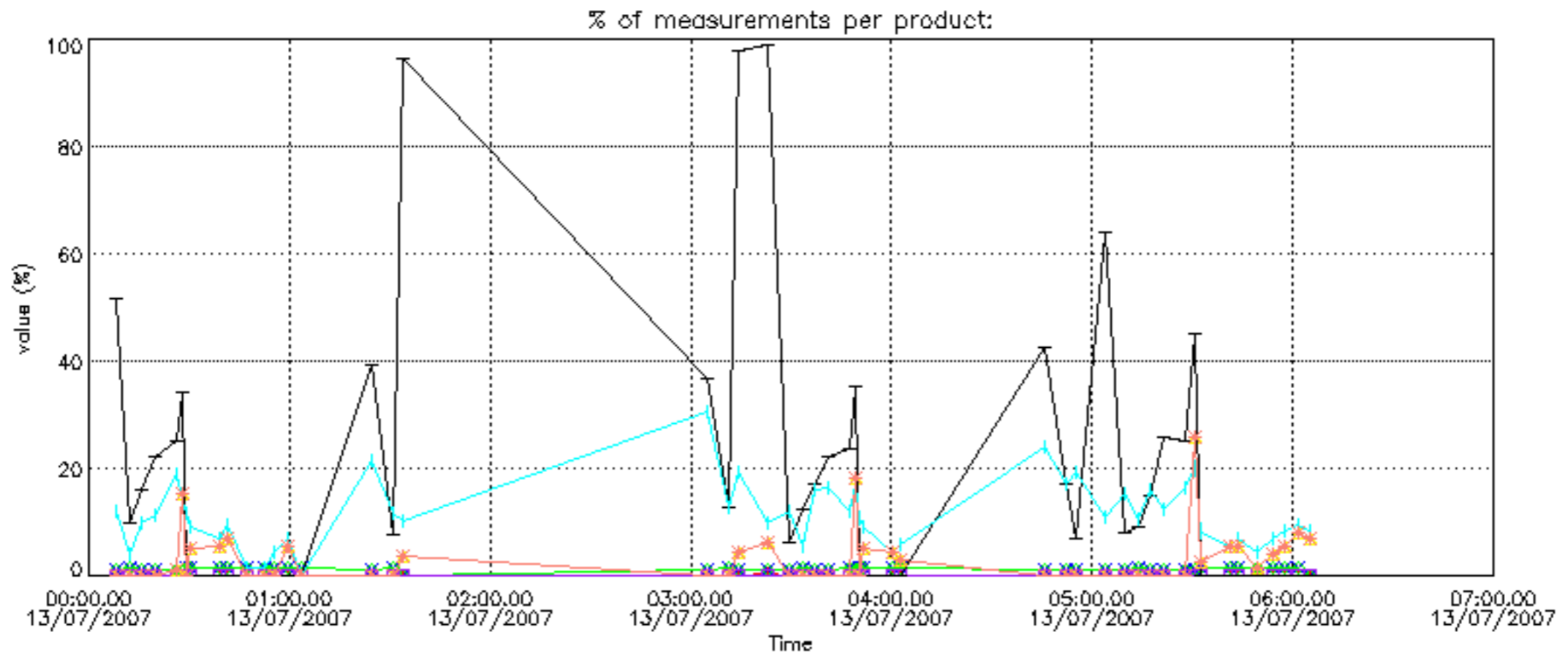
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	13-JUL-2007 00:08:11
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070702_090425_20070701_000000_20100101_000000	1	13-JUL-2007 00:08:11
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070713_071616_20070710_000000_20100101_000000	19	13-JUL-2007 03:05:09
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	13-JUL-2007 00:08:11
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	13-JUL-2007 00:08:11
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	13-JUL-2007 00:08:11
ECMWF_FILE	AUX_ECF_AXNECM20070712_061110_20070712_210000_20070713_090000	1	13-JUL-2007 00:08:11
ECMWF_FILE	AUX_ECF_AXNECM20070712_182110_20070713_030000_20070713_150000	19	13-JUL-2007 03:05:09
OPTIONAL_ECMWF_FILE	MISSING	1	13-JUL-2007 00:08:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070712_220706_000060572059_00444_28053_3765.N1	1	13-JUL-2007 00:08:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070713_024323_000057382059_00447_28056_3768.N1	19	13-JUL-2007 03:05:09
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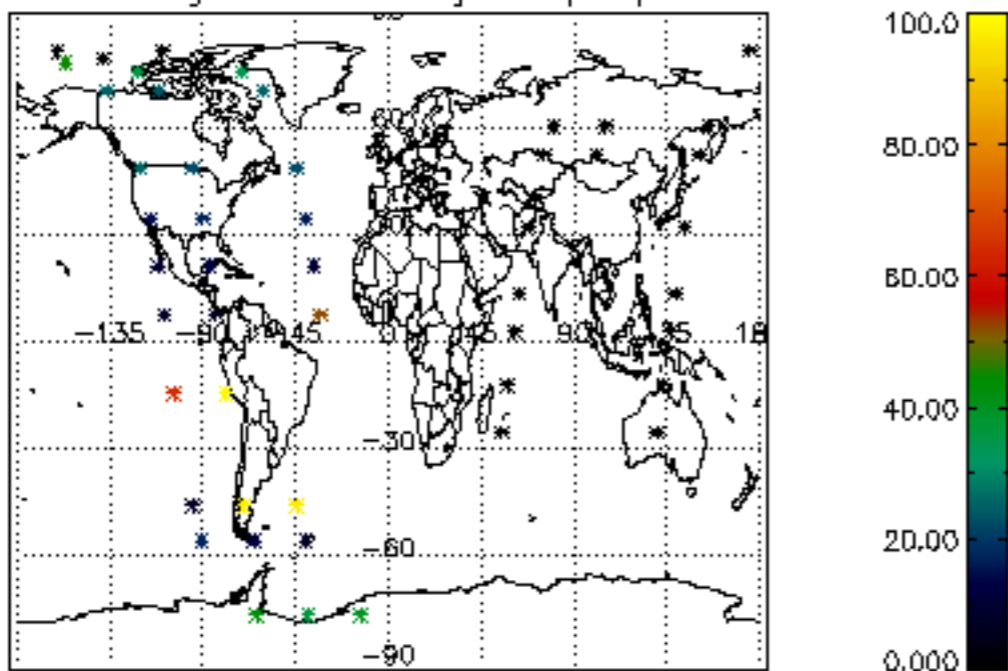




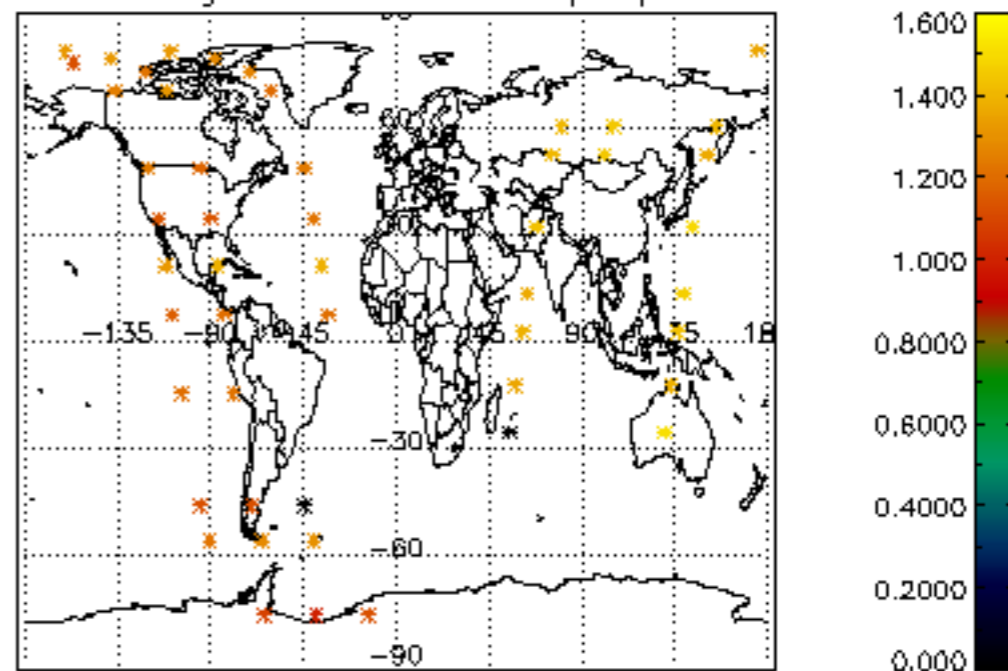




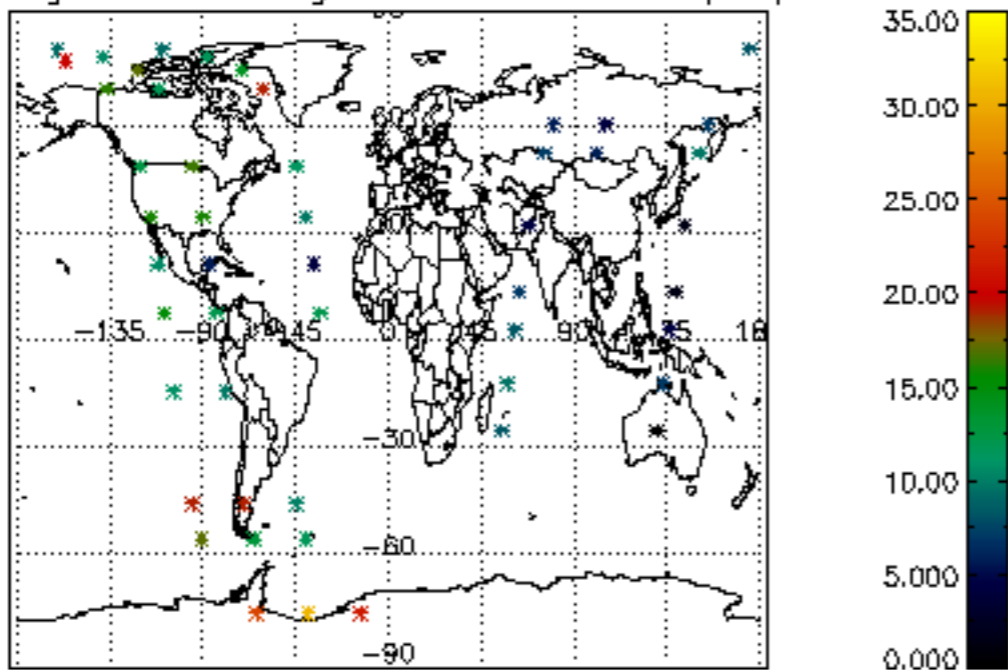
Percentage of cosmic ray hits per profile



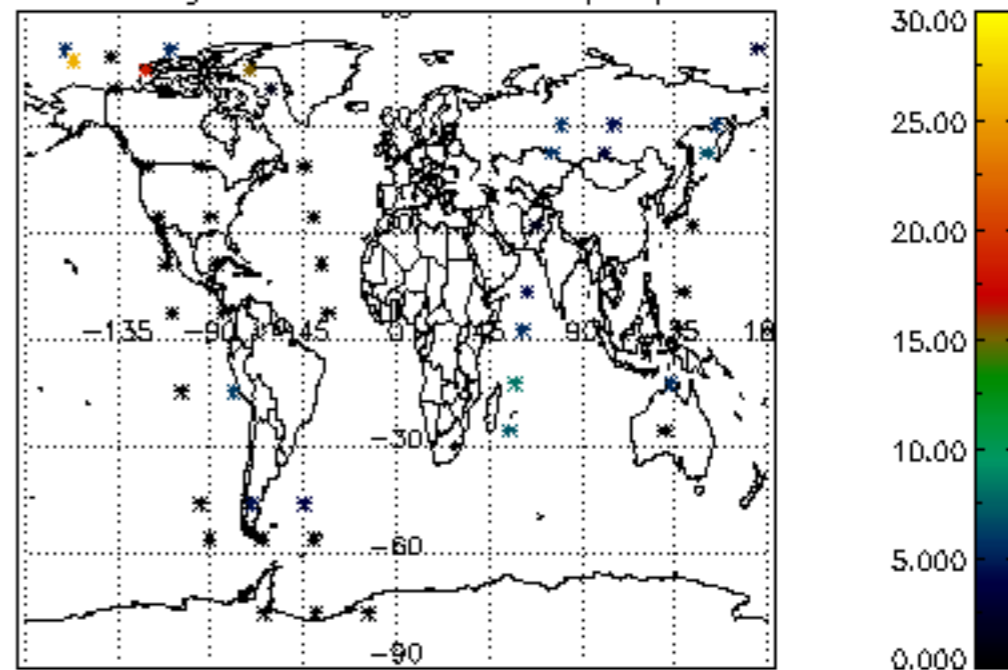
Percentage of datation errors per profile



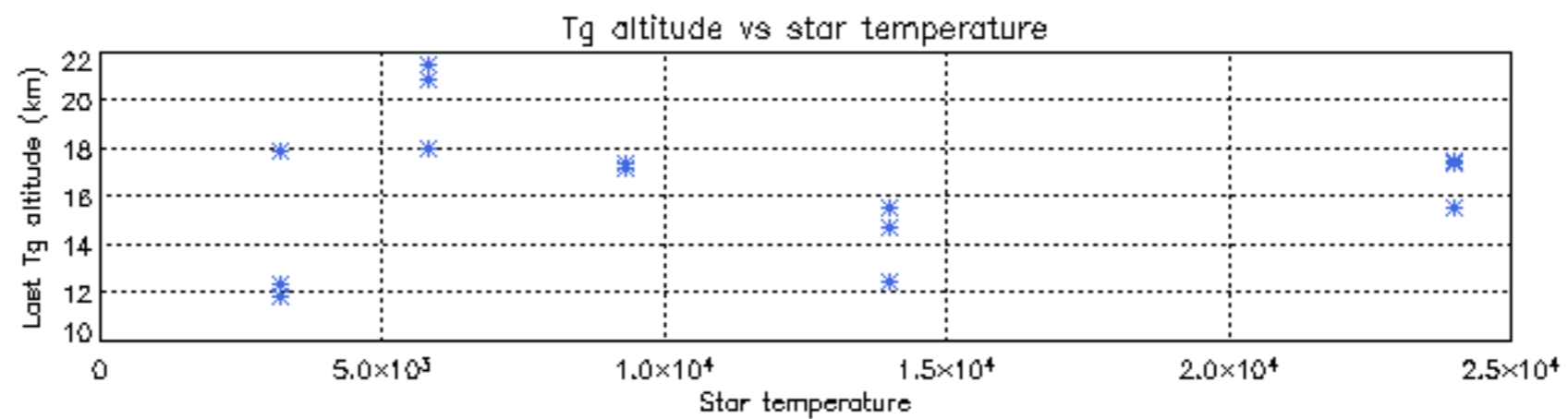
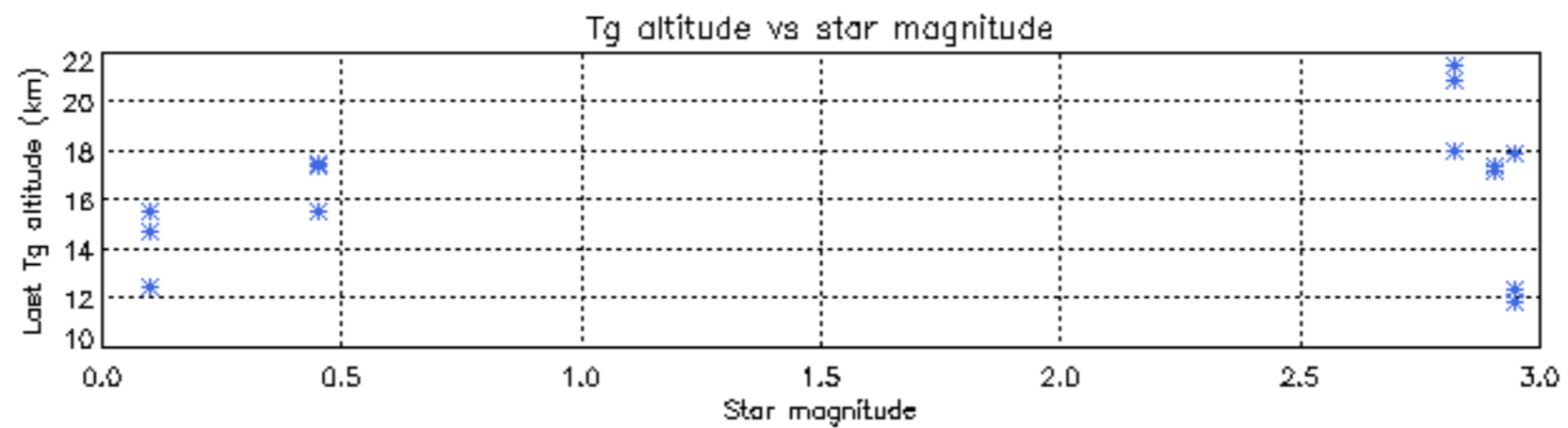
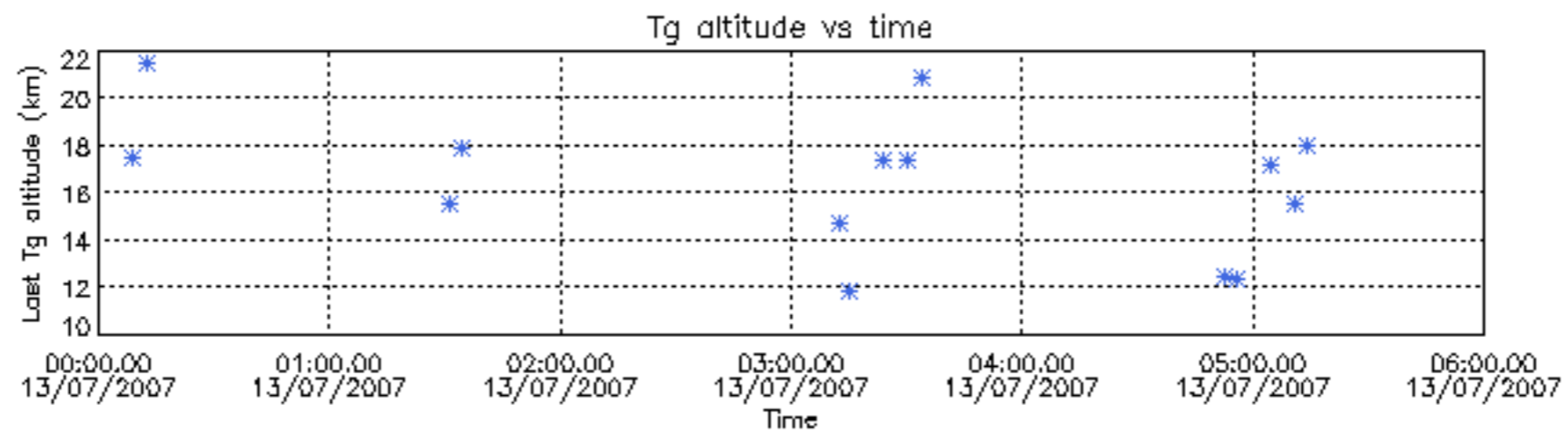
Percentage of star falling outside central band per profile



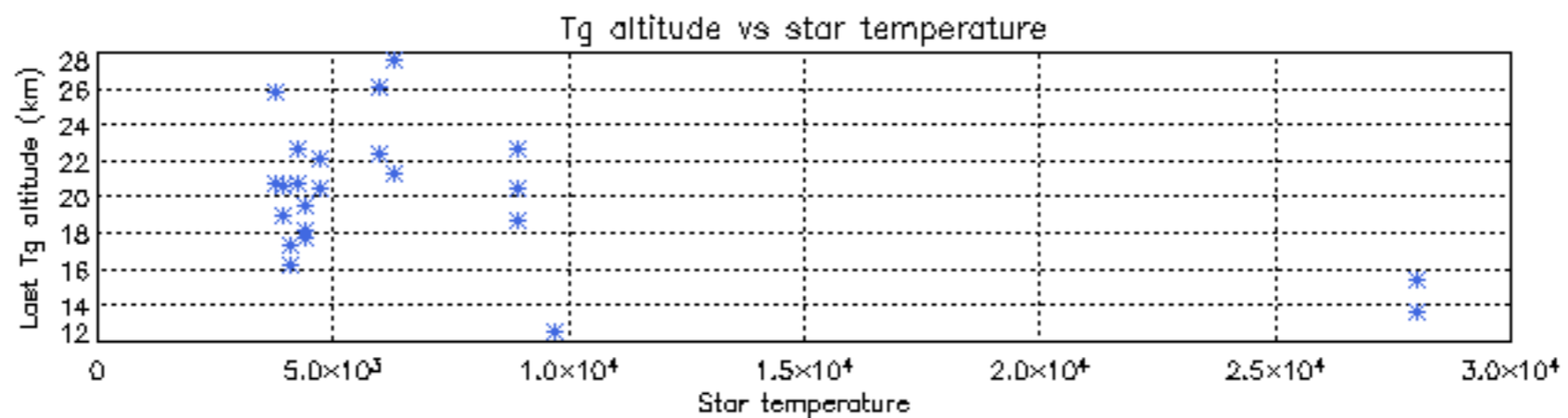
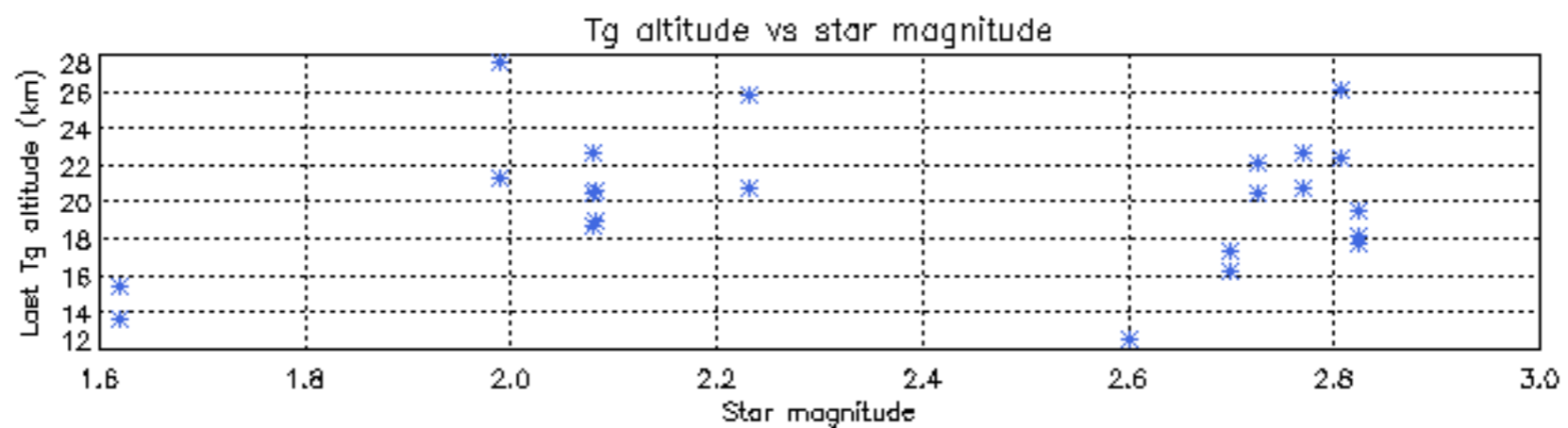
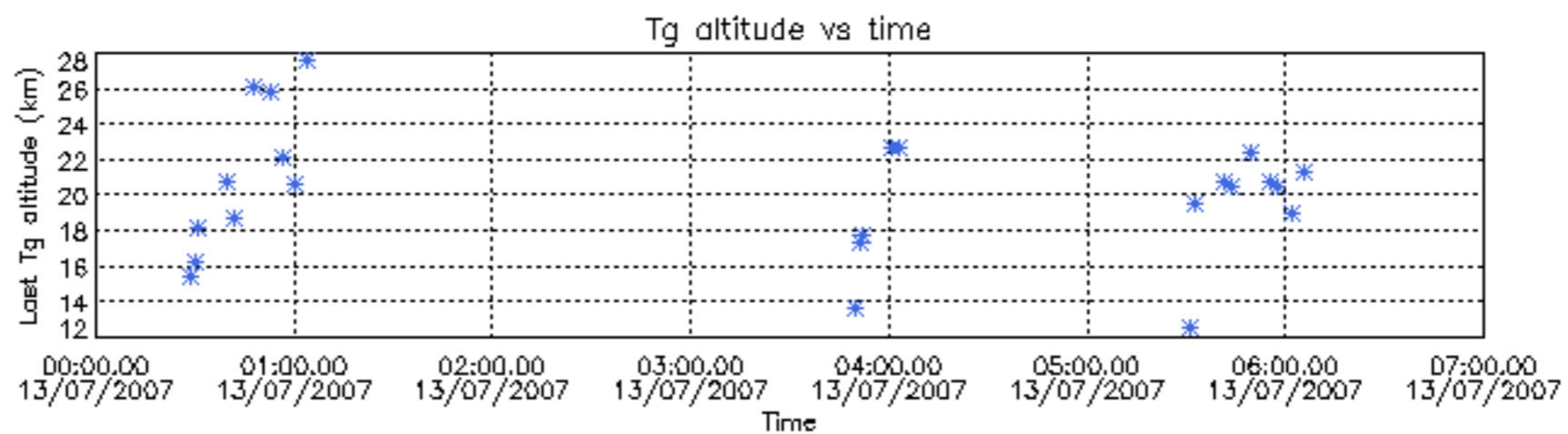
Percentage of saturation errors per profile



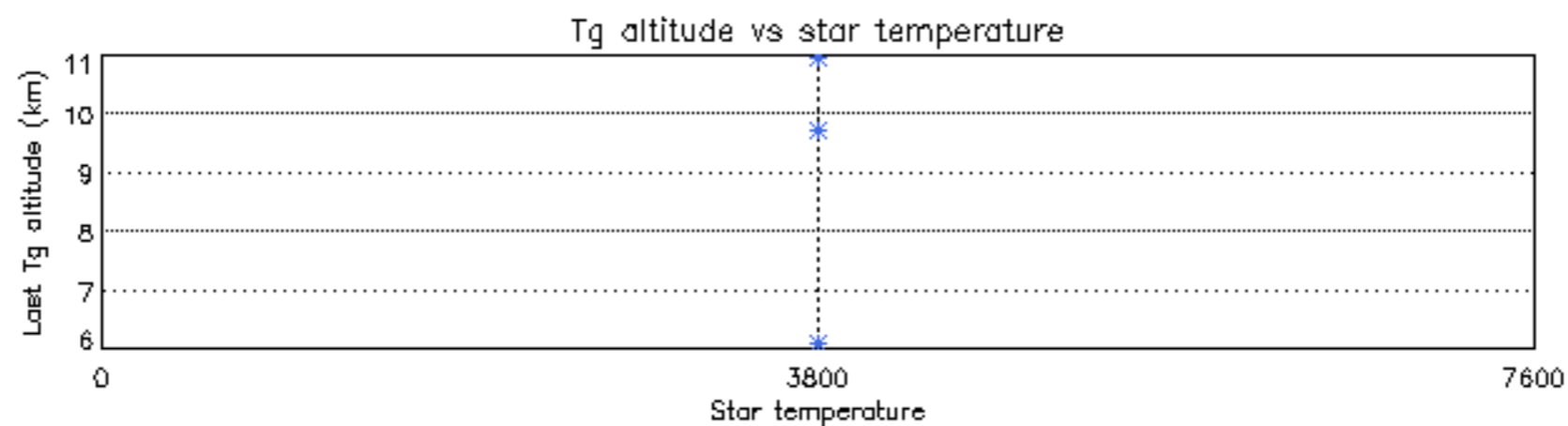
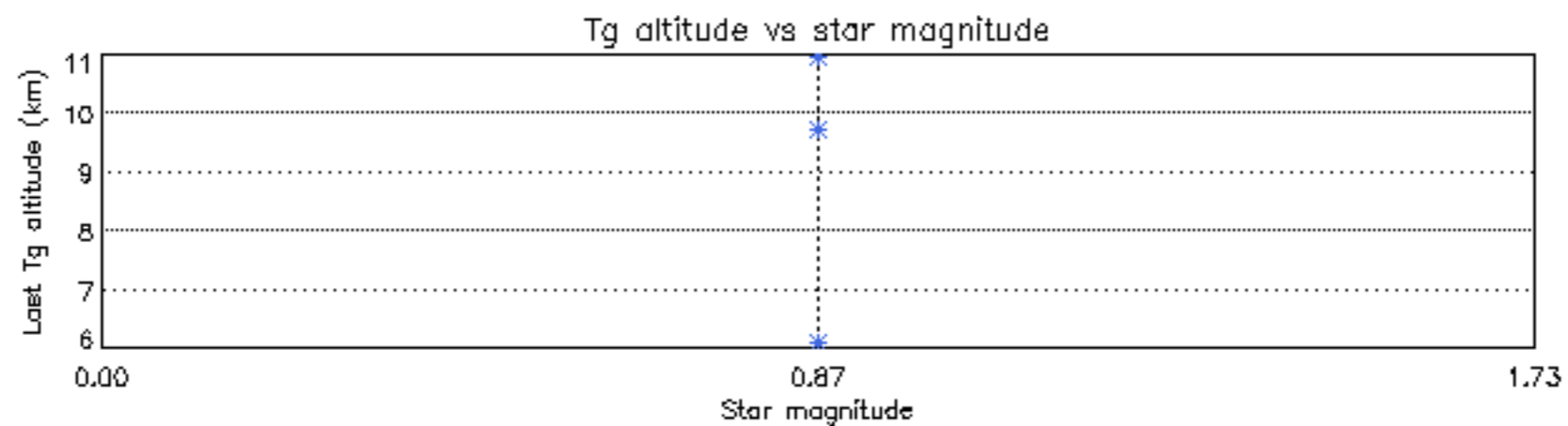
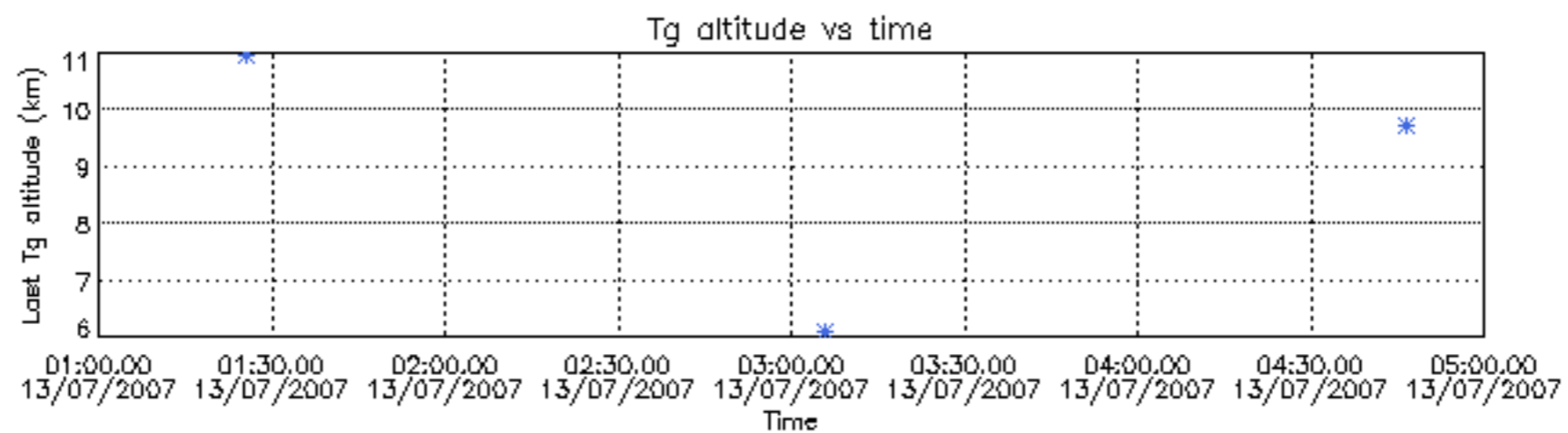
Tangent altitude at which the star is lost

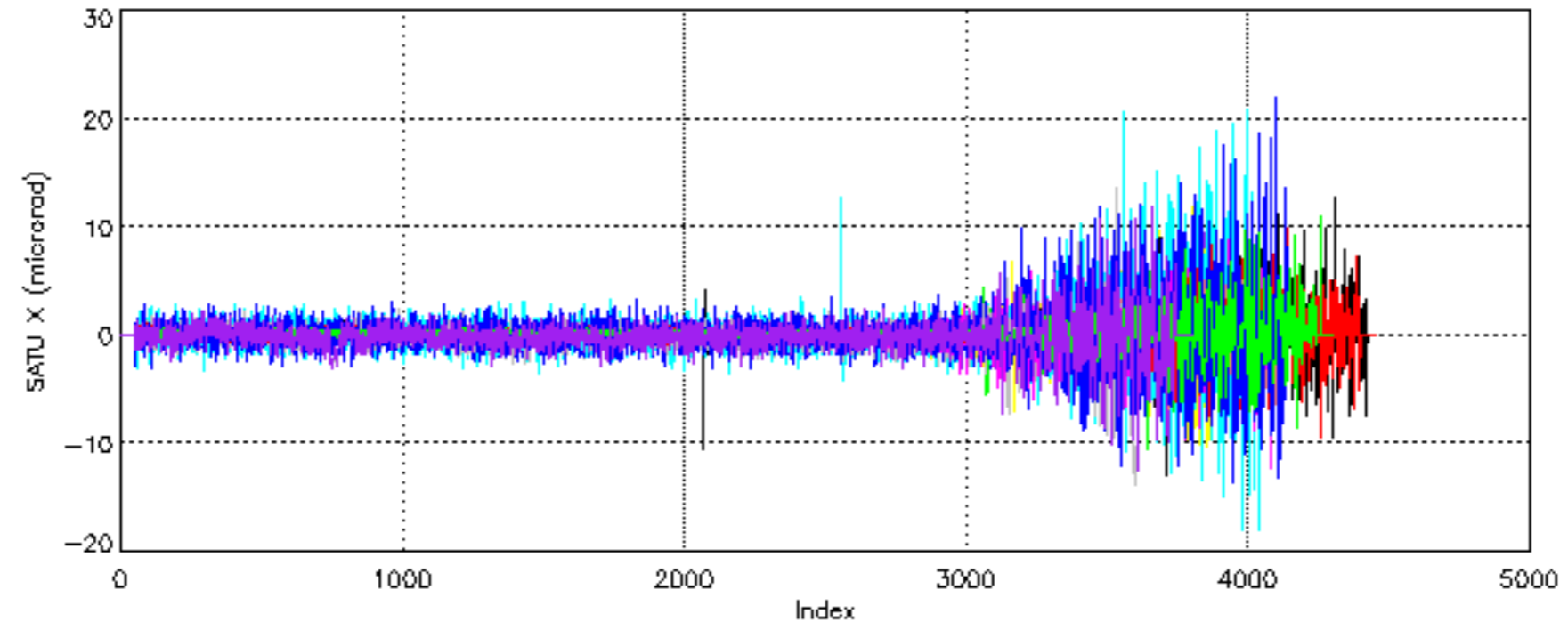


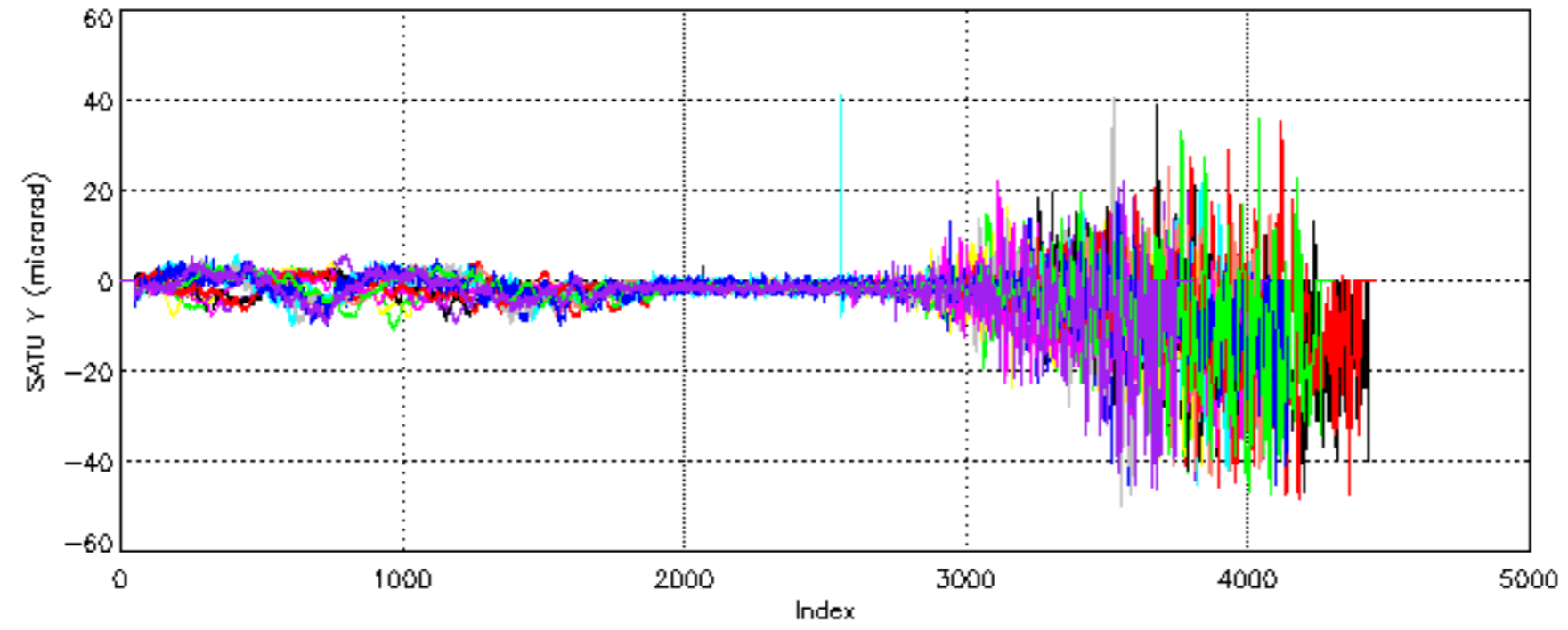
Tangent altitude at which the star is lost

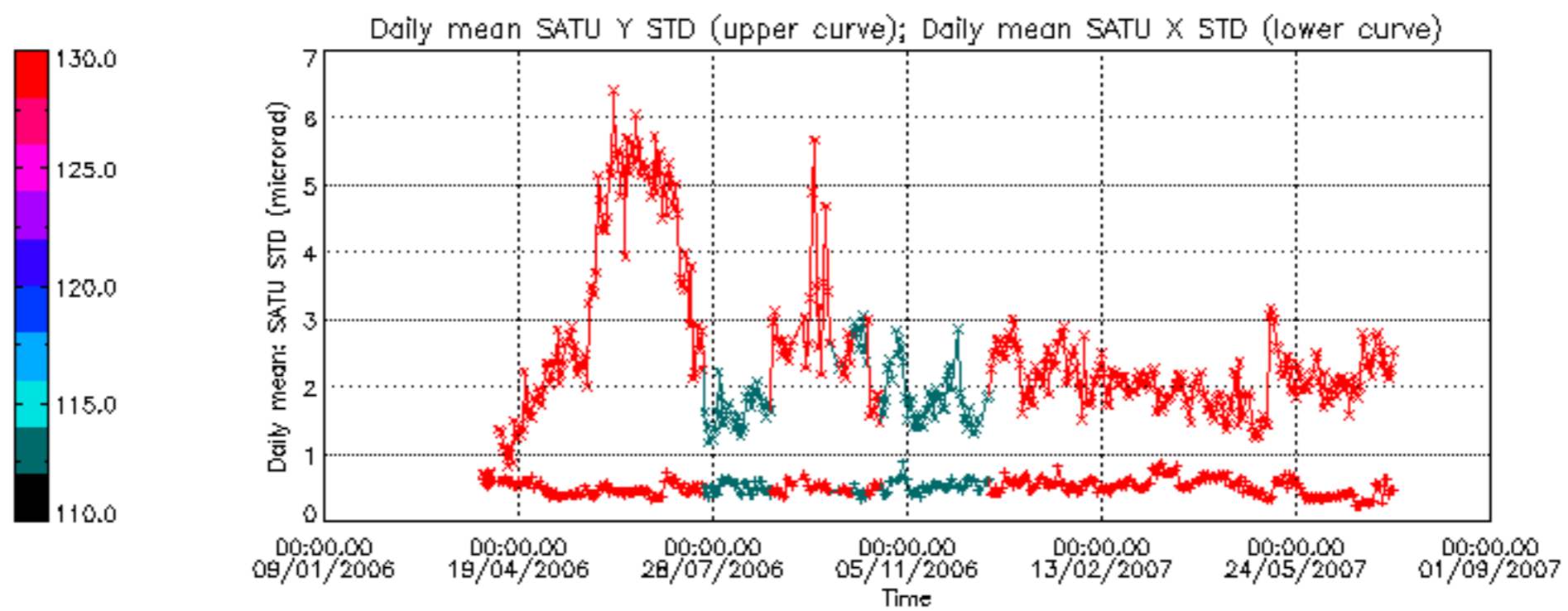


Tangent altitude at which the star is lost









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16; 6721.7; 27-JUL-2007 11:21:28; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;28261
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16; 6722.2; 27-JUL-2007 13:02:05; Dark ; 44.0; 148; Alp Tuc ; 2.88; 4100;occ; 88; 0;28262
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