

GOMOS Daily Report 17-NOV-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	20NOV2007 08:58:36
Data source version	GOMOS/5.00
Start time of products	17-11-2007 (17NOV2007 00:00:00)
Stop time of products	18-11-2007 (18NOV2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

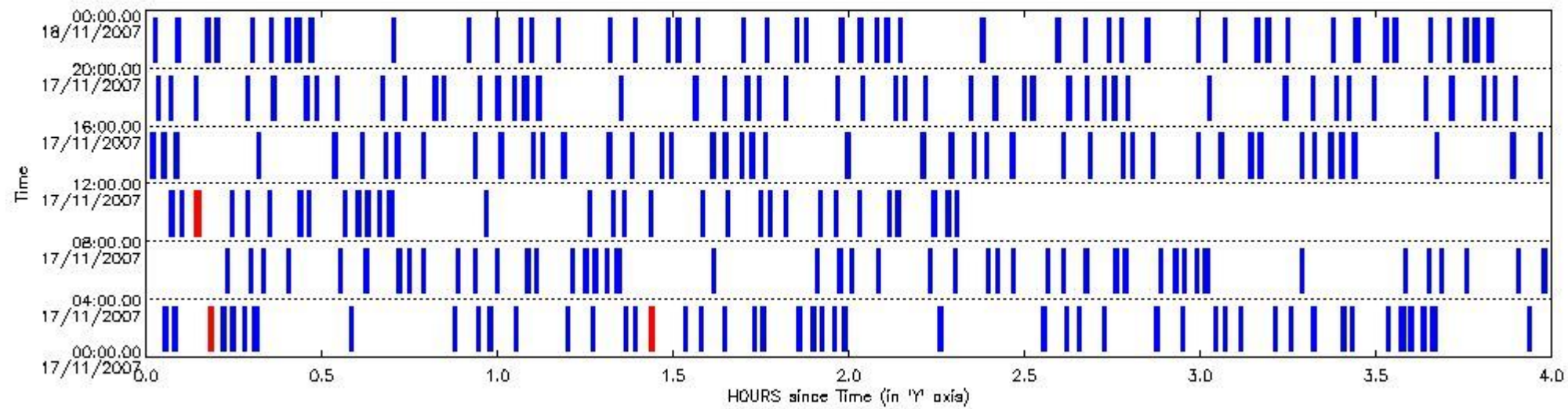
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

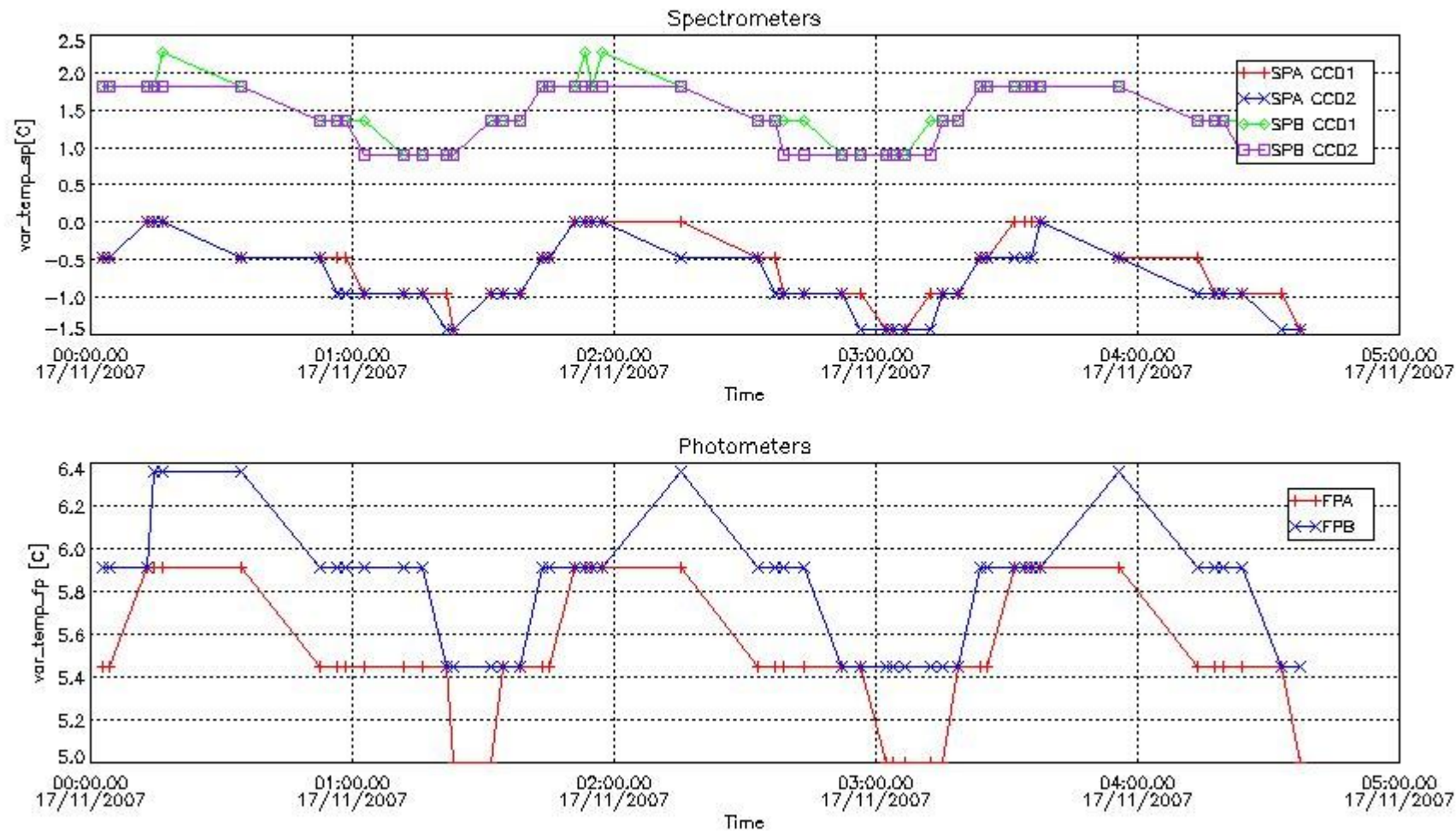
UTC start time	Star name	Star ID	Orbit
17-NOV-2007 00:10:33	GamCen	64	29872
17-NOV-2007 01:25:53	27GamBoo	180	29873
17-NOV-2007 08:08:18	27GamBoo	180	29877

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_1PNPDE20071117_000251_000000412063_00259_29872_0302.N1	17-NOV-2007 00:02:51	Twilight	41.000	100	4Gam Crv	2.5800	13100.	82	29872	No
2	GOM_TRA_1PNPDE20071117_000422_000000452063_00259_29872_0432.N1	17-NOV-2007 00:04:22	Twilight	45.000	171	2Eps Crv	3.0010	4250.0	90	29872	No
3	GOM_TRA_1PNPDE20071117_001250_000000432063_00259_29872_0433.N1	17-NOV-2007 00:12:50	Dark	42.500	26	Gam Cru	1.6240	2900.0	85	29872	No
4	GOM_TRA_1PNPDE20071117_001427_000000412063_00259_29872_0434.N1	17-NOV-2007 00:14:27	Dark	40.500	12	Alp1Cru	0.77500	30000.	81	29872	No
5	GOM_TRA_1PNPDE20071117_001633_000000372063_00260_29873_0435.N1	17-NOV-2007 00:16:33	Dark	37.000	124	The Car	2.7640	30000.	74	29873	No
6	GOM_TRA_1PNPDE20071117_003440_000000392063_00260_29873_0436.N1	17-NOV-2007 00:34:40	Straylight	39.000	157	The1Eri	2.9060	9300.0	78	29873	No
7	GOM_TRA_1PNPDE20071117_005221_000000352063_00260_29873_0437.N1	17-NOV-2007 00:52:21	Bright	35.000	105	6Bet Ari	2.6450	8900.0	70	29873	No
8	GOM_TRA_1PNPDE20071117_005620_000000352063_00260_29873_0438.N1	17-NOV-2007 00:56:20	Bright	34.500	173	4Bet Tri	3.0040	8900.0	69	29873	No

9	GOM_TRA_1PNPDE20071117_005824_000000382063_00260_29873_0439.N1	17-NOV-2007 00:58:24	Bright	38.000	73	57Gam1And	2.2600	13100.	76	29873	No
10	GOM_TRA_1PNPDE20071117_010247_000000352063_00260_29873_0440.N1	17-NOV-2007 01:02:47	Bright	34.500	68	18Alp Cas	2.2250	4500.0	69	29873	No
11	GOM_TRA_1PNPDE20071117_011138_000000352063_00260_29873_0441.N1	17-NOV-2007 01:11:38	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	29873	No
12	GOM_TRA_1PNPDE20071117_011601_000000352063_00260_29873_0442.N1	17-NOV-2007 01:16:01	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	29873	No
13	GOM_TRA_1PNPDE20071117_012138_000000372063_00260_29873_0443.N1	17-NOV-2007 01:21:38	Bright	37.000	32	77Eps UMa	1.7630	11000.	74	29873	No
14	GOM_TRA_1PNPDE20071117_012318_000000352063_00260_29873_0444.N1	17-NOV-2007 01:23:18	Bright	34.500	39	85Eta UMa	1.8540	24000.	69	29873	No
15	GOM_TRA_1PNPDE20071117_013151_000000332063_00260_29873_0445.N1	17-NOV-2007 01:31:51	Bright	32.500	111	8Eta Boo	2.6800	6000.0	65	29873	No
16	GOM_TRA_1PNPDE20071117_013433_000000342063_00260_29873_0446.N1	17-NOV-2007 01:34:33	Bright	33.500	138	47Eps Vir	2.8280	4700.0	67	29873	No
17	GOM_TRA_1PNPDE20071117_013823_000000452063_00260_29873_0447.N1	17-NOV-2007 01:38:23	Bright	45.000	121	29Gam Vir	2.7400	7200.0	90	29873	No
18	GOM_TRA_1PNPDE20071117_014327_000000402063_00260_29873_0580.N1	17-NOV-2007 01:43:27	Twilight	39.500	100	4Gam Crv	2.5800	13100.	79	29873	No
19	GOM_TRA_1PNPDE20071117_014459_000000442063_00260_29873_0581.N1	17-NOV-2007 01:44:59	Twilight	43.500	171	2Eps Crv	3.0010	4250.0	87	29873	No
20	GOM_TRA_1PNPDE20071117_015110_000000382063_00260_29873_0582.N1	17-NOV-2007 01:51:10	Dark	37.500	64	Gam Cen	2.2000	10600.	75	29873	No
21	GOM_TRA_1PNPDE20071117_015326_000000472063_00260_29873_0583.N1	17-NOV-2007 01:53:26	Dark	46.500	26	Gam Cru	1.6240	2900.0	93	29873	No
22	GOM_TRA_1PNPDE20071117_015503_000000392063_00260_29873_0584.N1	17-NOV-2007 01:55:03	Dark	38.500	12	Alp1Cru	0.77500	30000.	77	29873	No
23	GOM_TRA_1PNPDE20071117_015709_000000372063_00261_29874_0585.N1	17-NOV-2007 01:57:09	Dark	37.000	124	The Car	2.7640	30000.	74	29874	No
24	GOM_TRA_1PNPDE20071117_021516_000000392063_00261_29874_0586.N1	17-NOV-2007 02:15:16	Straylight	39.000	157	The1Eri	2.9060	9300.0	78	29874	No
25	GOM_TRA_1PNPDE20071117_023257_000000372063_00261_29874_0587.N1	17-NOV-2007 02:32:57	Bright	36.500	105	6Bet Ari	2.6450	8900.0	73	29874	No
26	GOM_TRA_1PNPDE20071117_023656_000000342063_00261_29874_0588.N1	17-NOV-2007 02:36:56	Bright	34.000	173	4Bet Tri	3.0040	8900.0	68	29874	No
27	GOM_TRA_1PNPDE20071117_023900_000000392063_00261_29874_0589.N1	17-NOV-2007 02:39:00	Bright	38.500	73	57Gam1And	2.2600	13100.	77	29874	No
28	GOM_TRA_1PNPDE20071117_024323_000000342063_00261_29874_0590.N1	17-NOV-2007 02:43:23	Bright	34.000	68	18Alp Cas	2.2250	4500.0	68	29874	No
29	GOM_TRA_1PNPDE20071117_025214_000000372063_00261_29874_0591.N1	17-NOV-2007 02:52:14	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	29874	No
30	GOM_TRA_1PNPDE20071117_025637_000000372063_00261_29874_0754.N1	17-NOV-2007 02:56:37	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	29874	No
31	GOM_TRA_1PNPDE20071117_030213_000000372063_00261_29874_0755.N1	17-NOV-2007 03:02:13	Bright	36.500	32	77Eps UMa	1.7630	11000.	73	29874	No
32	GOM_TRA_1PNPDE20071117_030354_000000372063_00261_29874_0756.N1	17-NOV-2007 03:03:54	Bright	36.500	39	85Eta UMa	1.8540	24000.	73	29874	No
33	GOM_TRA_1PNPDE20071117_030630_000000362063_00261_29874_0757.N1	17-NOV-2007 03:06:30	Bright	36.000	180	27Gam Boo	3.0400	8000.0	72	29874	No
34	GOM_TRA_1PNPDE20071117_031226_000000332063_00261_29874_0758.N1	17-NOV-2007 03:12:26	Bright	32.500	111	8Eta Boo	2.6800	6000.0	65	29874	No
35	GOM_TRA_1PNPDE20071117_031509_000000342063_00261_29874_0759.N1	17-NOV-2007 03:15:09	Bright	34.000	138	47Eps Vir	2.8280	4700.0	68	29874	No
36	GOM_TRA_1PNPDE20071117_031900_000000372063_00261_29874_0760.N1	17-NOV-2007 03:19:00	Bright	37.000	121	29Gam Vir	2.7400	7200.0	74	29874	No
37	GOM_TRA_1PNPDE20071117_032404_000000402063_00261_29874_0761.N1	17-NOV-2007 03:24:04	Twilight	40.000	100	4Gam Crv	2.5800	13100.	80	29874	No
38	GOM_TRA_1PNPDE20071117_032535_000000412063_00261_29874_0762.N1	17-NOV-2007 03:25:35	Twilight	41.000	171	2Eps Crv	3.0010	4250.0	82	29874	No
39	GOM_TRA_1PNPDE20071117_033146_000000412063_00261_29874_0763.N1	17-NOV-2007 03:31:46	Dark	40.500	64	Gam Cen	2.2000	10600.	81	29874	No
40	GOM_TRA_1PNPDE20071117_033403_000000512063_00261_29874_0764.N1	17-NOV-2007 03:34:03	Dark	51.000	26	Gam Cru	1.6240	2900.0	102	29874	No
41	GOM_TRA_1PNPDE20071117_033539_000000382063_00261_29874_0765.N1	17-NOV-2007 03:35:39	Dark	37.500	12	Alp1Cru	0.77500	30000.	75	29874	No
42	GOM_TRA_1PNPDE20071117_033746_000000372063_00262_29875_0766.N1	17-NOV-2007 03:37:46	Dark	37.000	124	The Car	2.7640	30000.	74	29875	No
43	GOM_TRA_1PNPDE20071117_035552_000000372063_00262_29875_0767.N1	17-NOV-2007 03:55:52	Straylight	36.500	157	The1Eri	2.9060	9300.0	73	29875	No
44	GOM_TRA_1PNPDE20071117_041333_000000372063_00262_29875_0768.N1	17-NOV-2007 04:13:33	Bright	37.000	105	6Bet Ari	2.6450	8900.0	74	29875	No
45	GOM_TRA_1PNPDE20071117_041732_000000362063_00262_29875_0769.N1	17-NOV-2007 04:17:32	Bright	35.500	173	4Bet Tri	3.0040	8900.0	71	29875	No
46	GOM_TRA_1PNPDE20071117_041936_000000362063_00262_29875_0770.N1	17-NOV-2007 04:19:36	Bright	36.000	73	57Gam1And	2.2600	13100.	72	29875	No
47	GOM_TRA_1PNPDE20071117_042400_000000372063_00262_29875_0771.N1	17-NOV-2007 04:24:00	Bright	36.500	68	18Alp Cas	2.2250	4500.0	73	29875	No
48	GOM_TRA_1PNPDE20071117_043250_000000332063_00262_29875_0772.N1	17-NOV-2007 04:32:50	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	29875	No
49	GOM_TRA_1PNPDE20071117_043713_00000032063_00262_29875_0773.N1	17-NOV-2007 04:37:13	Straylight	3.0000	60	7Bet UMi	2.0810	3950.0	6	29875	No

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



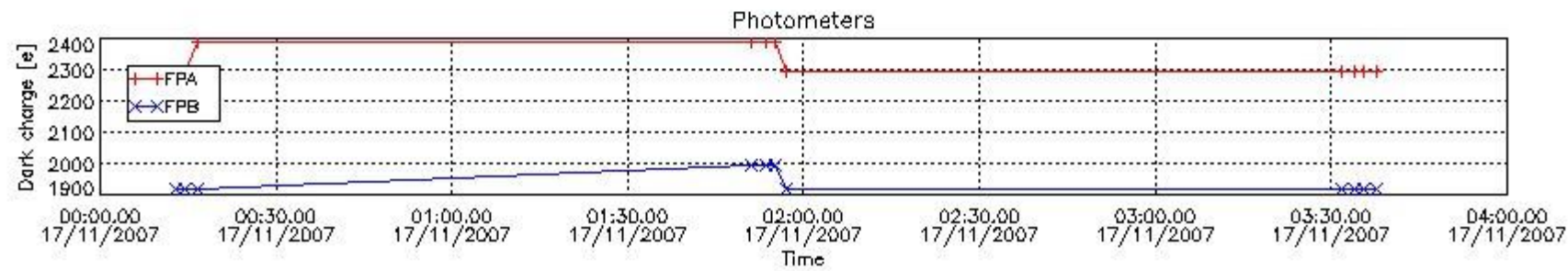
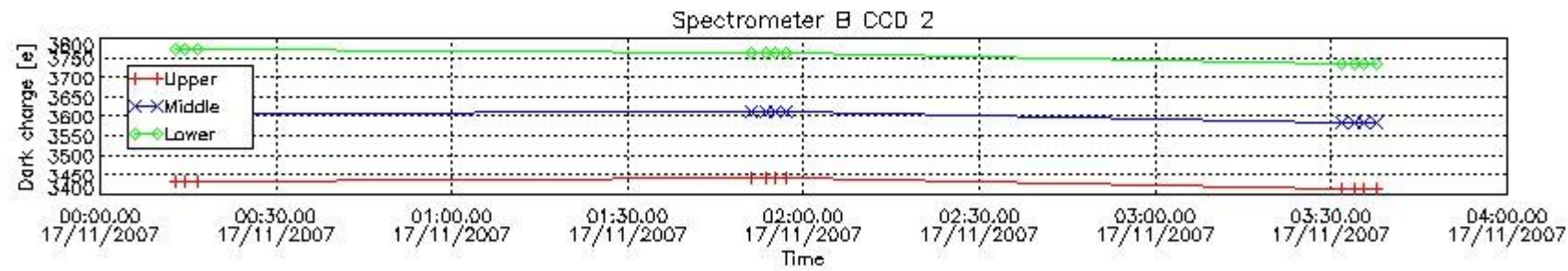
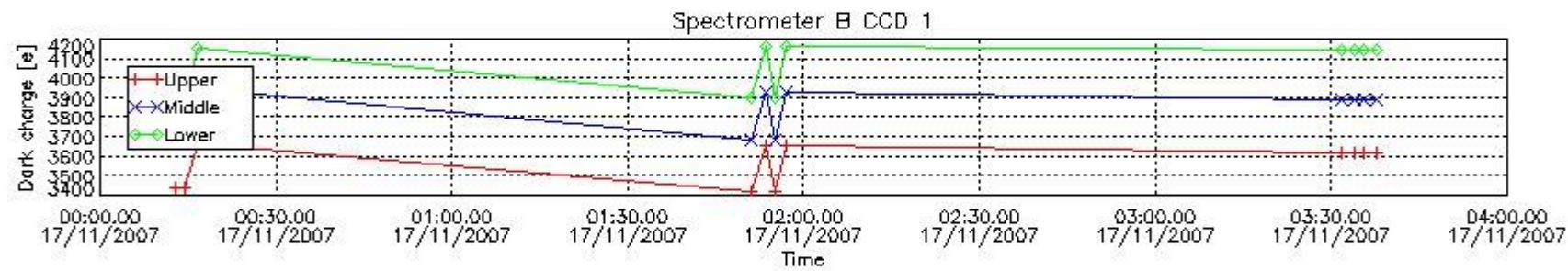
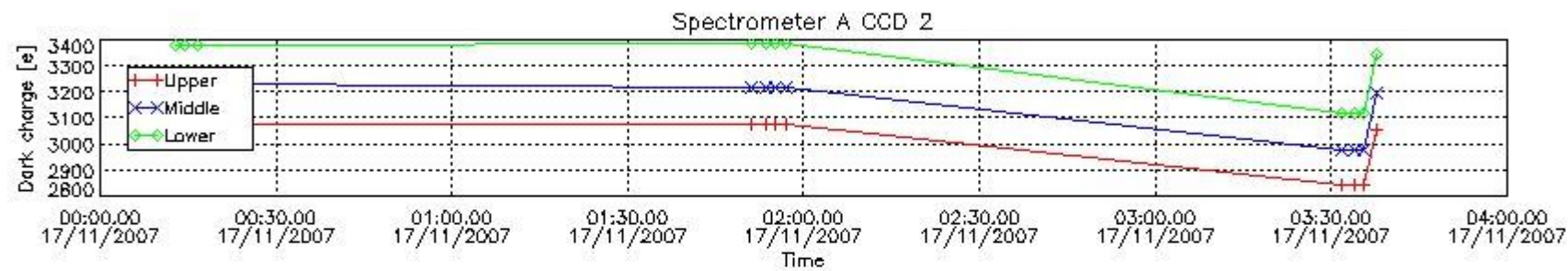
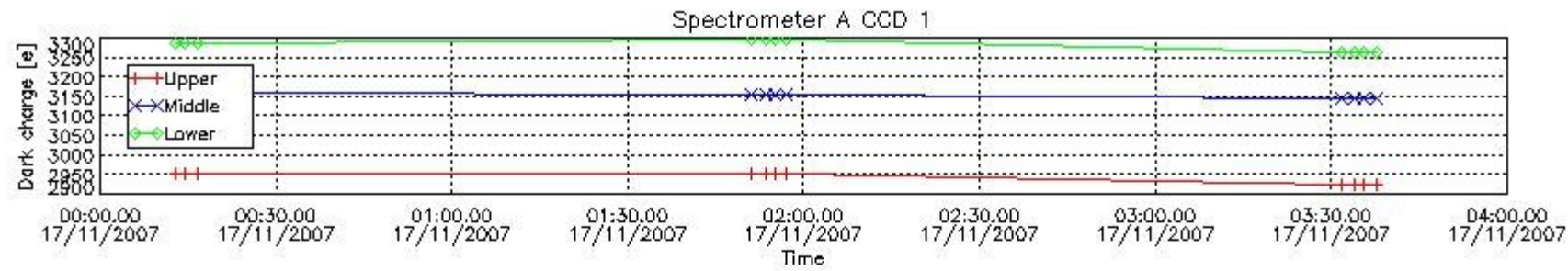
4. Overview of dark signal processing per product

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



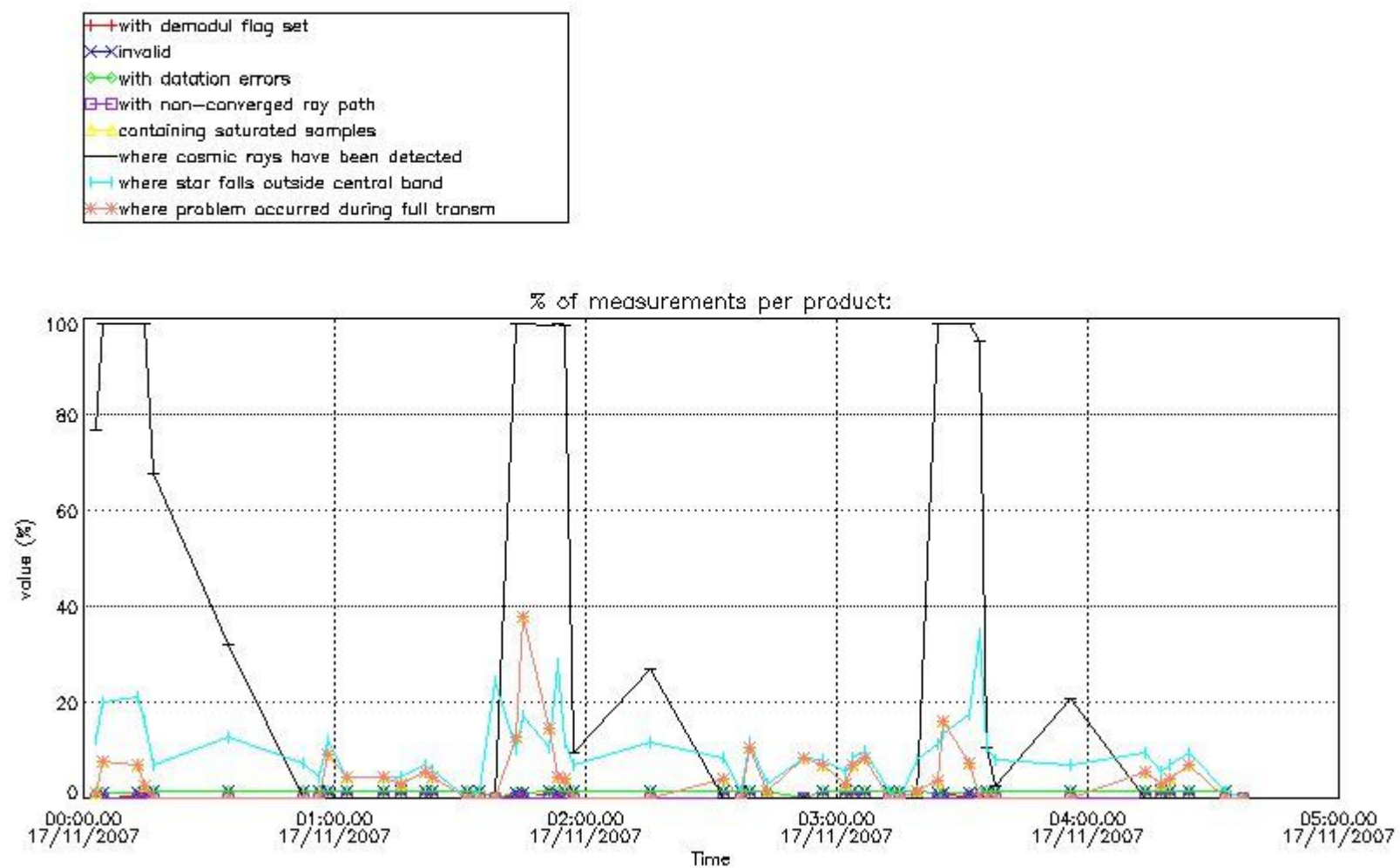
5. Demodulation flag and quality information monitoring

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.

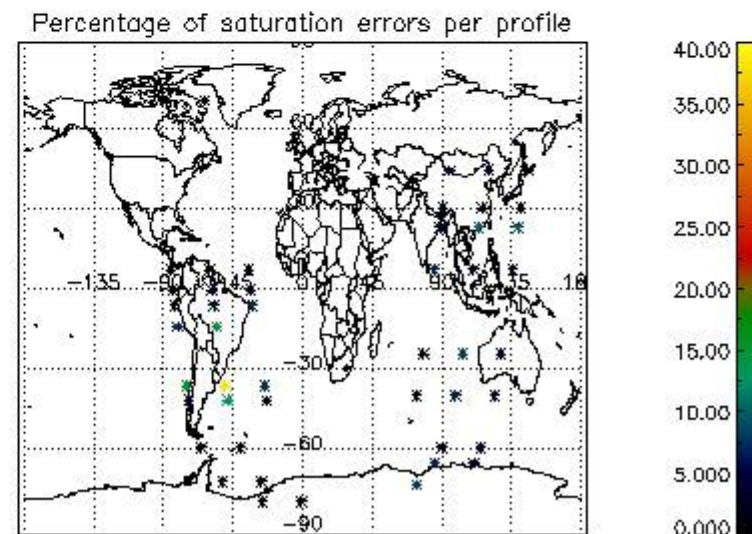
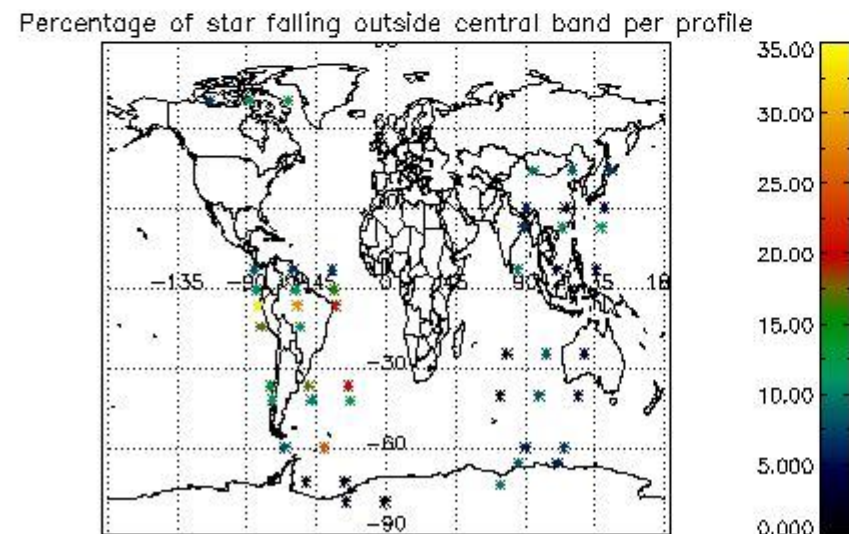
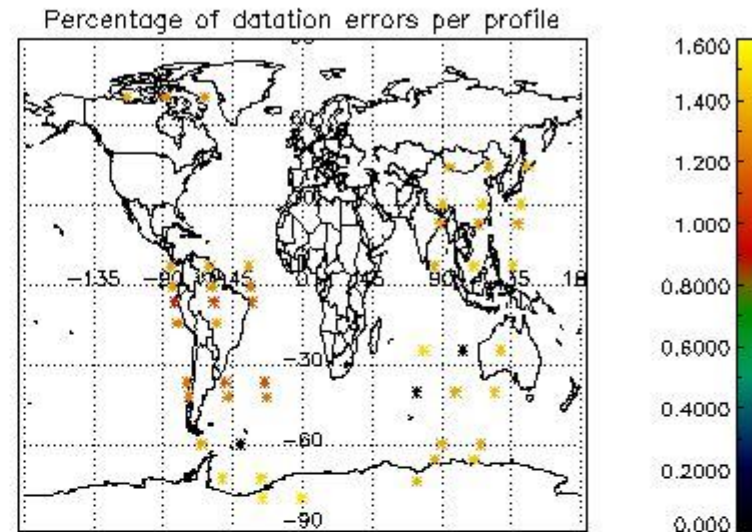
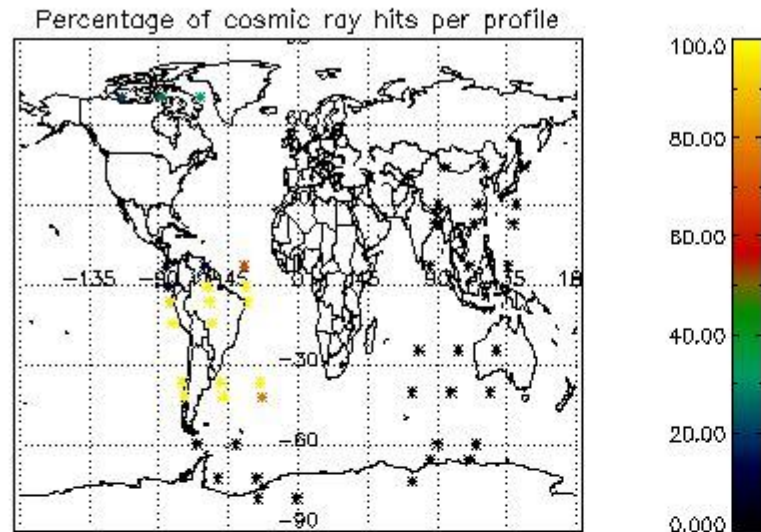
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	30.6122 %
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)



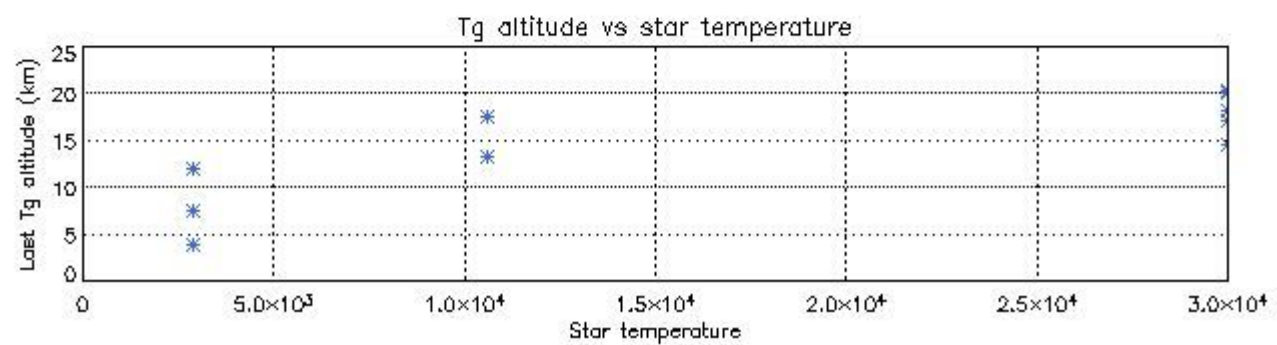
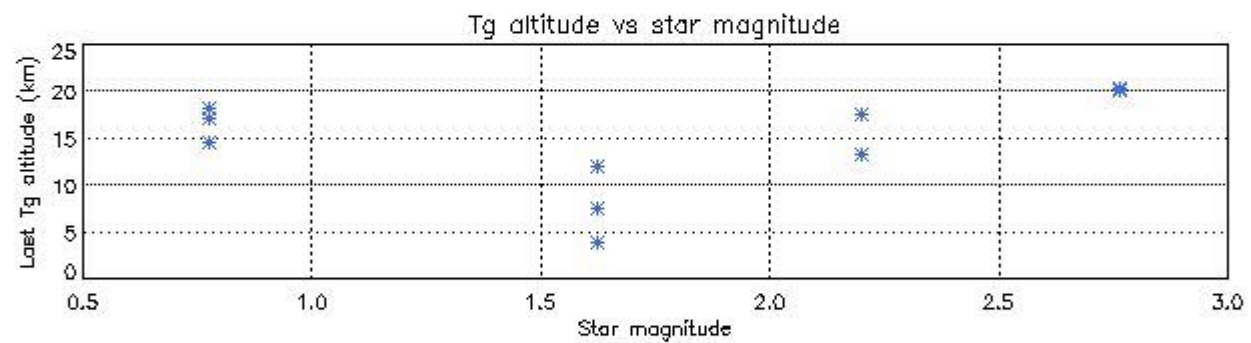
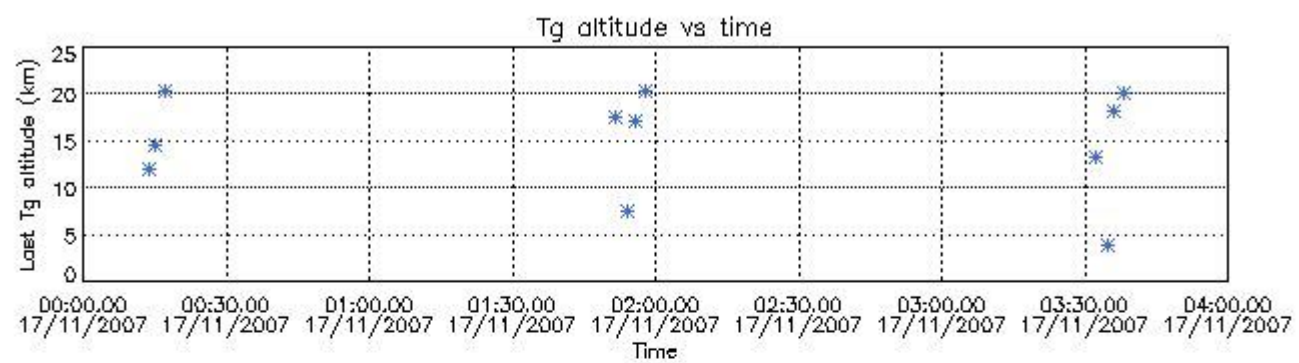
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.948	21.371	13.222
St. deviation:	5.4506	3.6634	2.1743
Maximum:	20.342	27.489	15.573
Minimum:	3.7826	10.844	11.284
Number of data:	11.000	28.000	3.0000

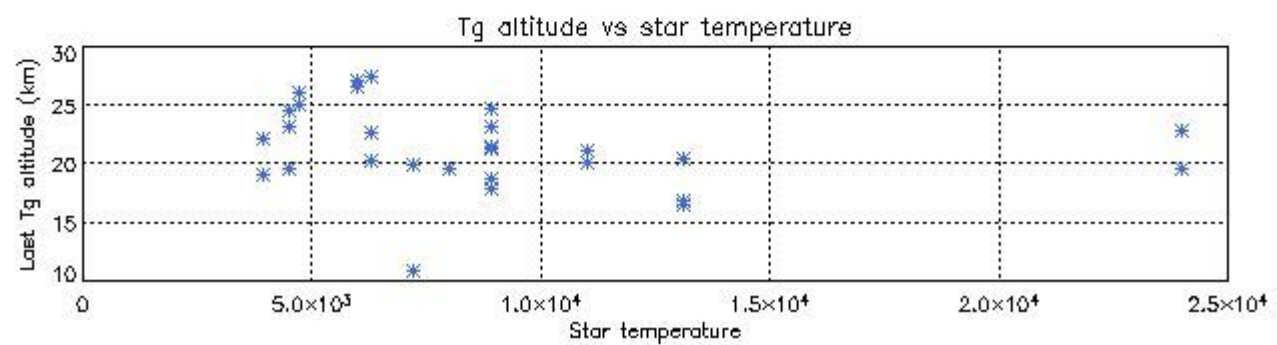
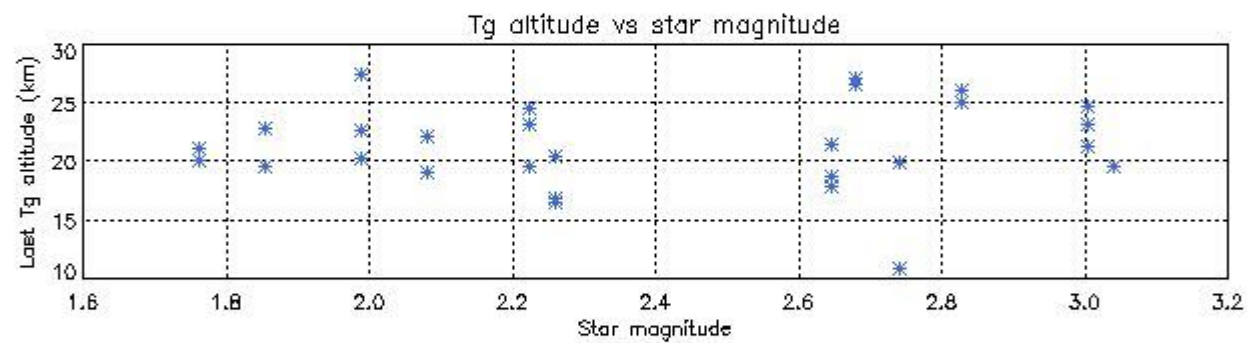
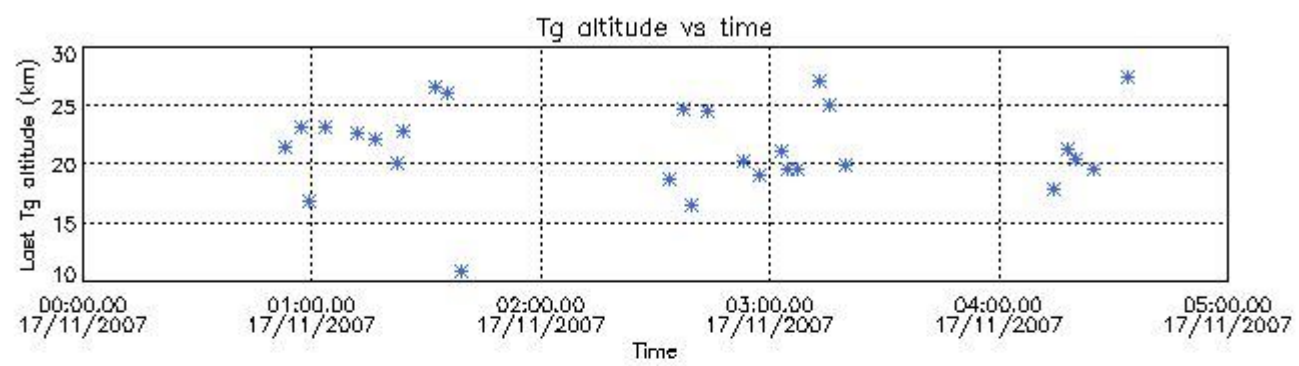
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



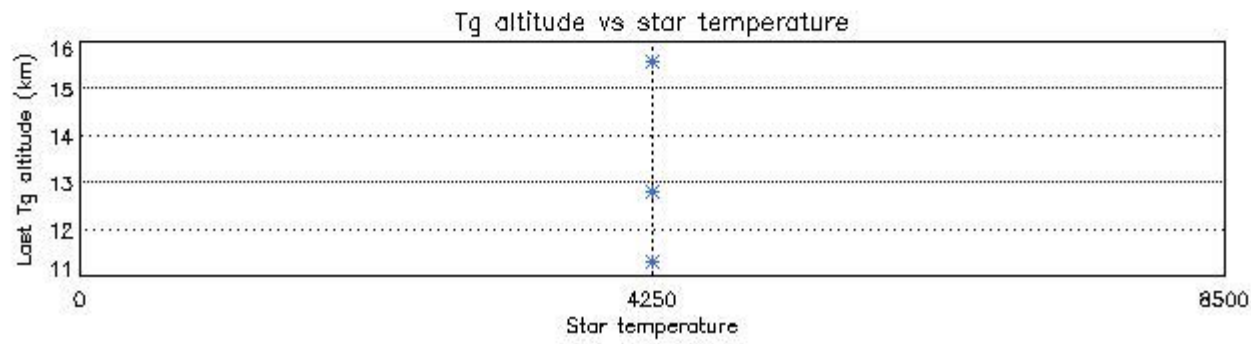
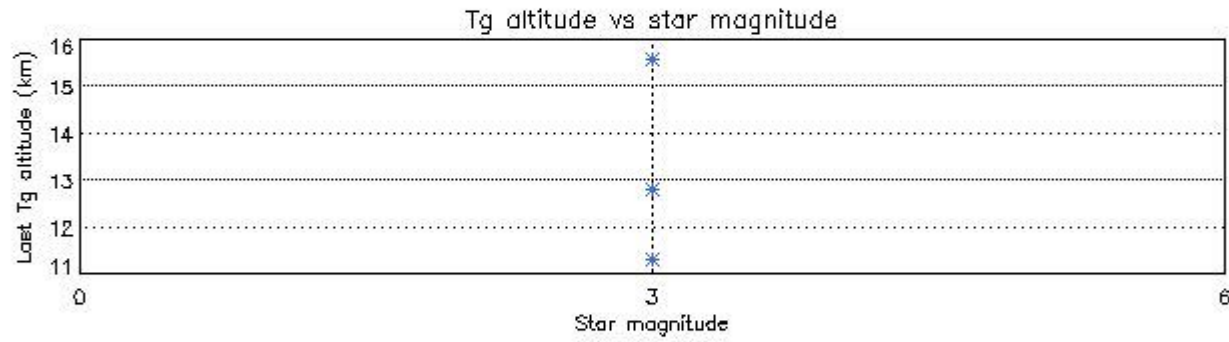
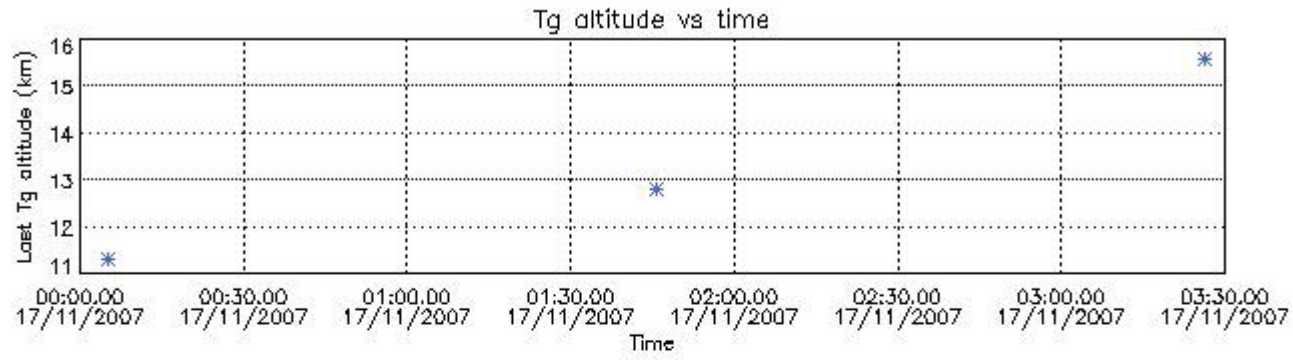
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

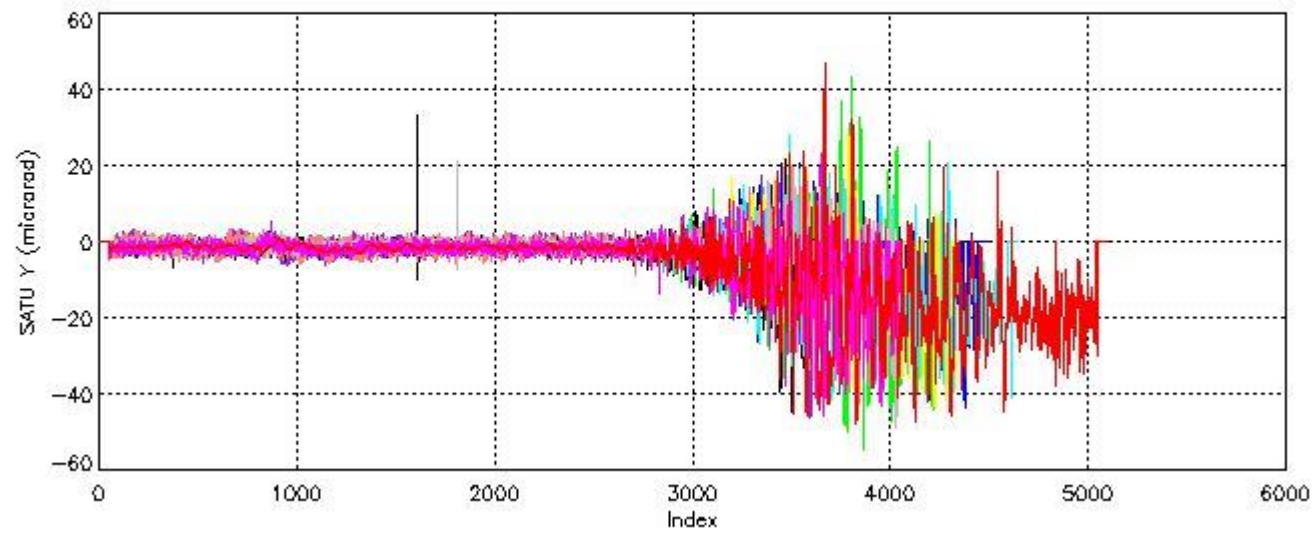
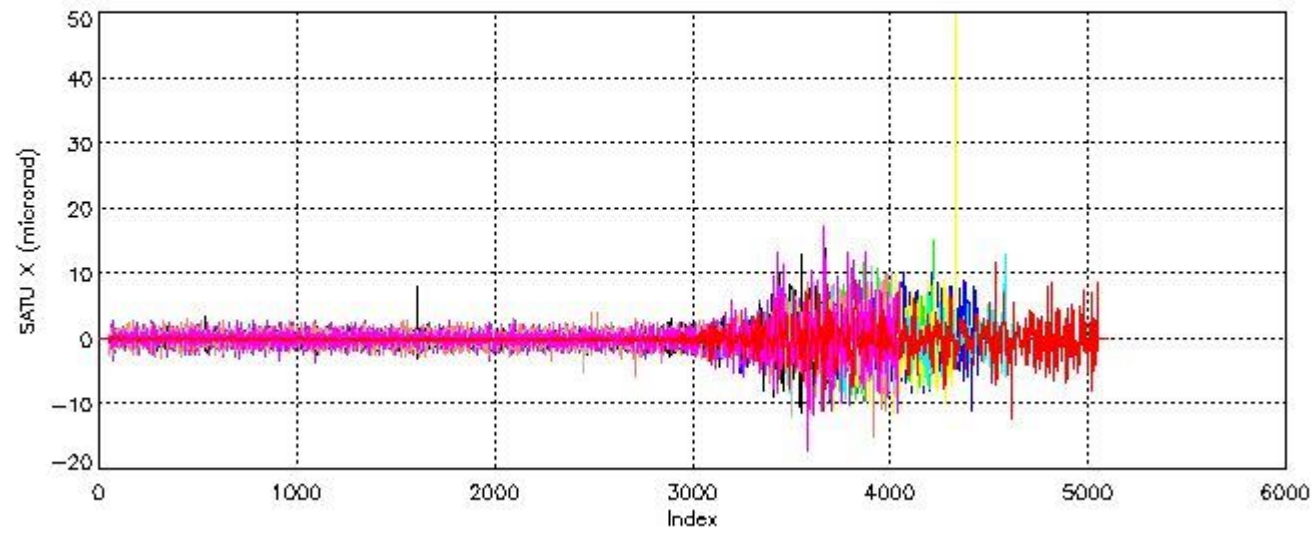


7. Star Acquisition and Tracking Unit (SATU)

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:	-0.067539	-1.3632	0.0053201	-1.2948
St. deviation:	0.56392	1.0956	0.79261	1.2622
Maximum:	4.3000	4.0000	5.0000	5.2000
Minimum:	-4.3000	-7.0000	-5.8000	-7.7000

Number of data:	9350.0	9350.0	23000.	23000.
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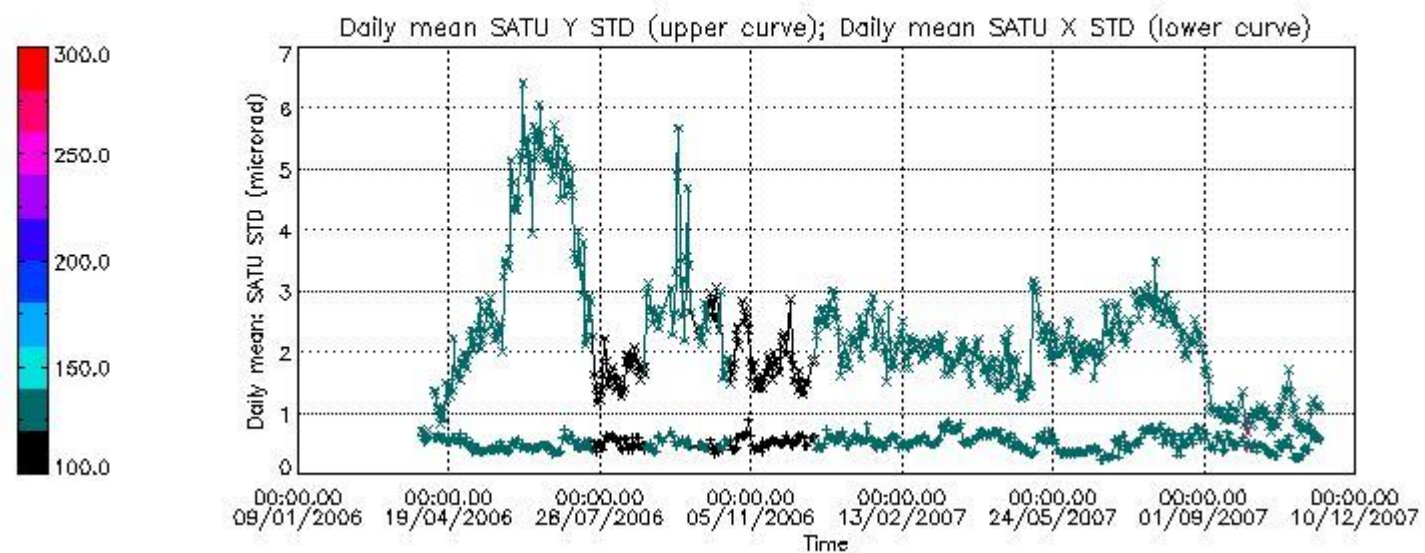
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

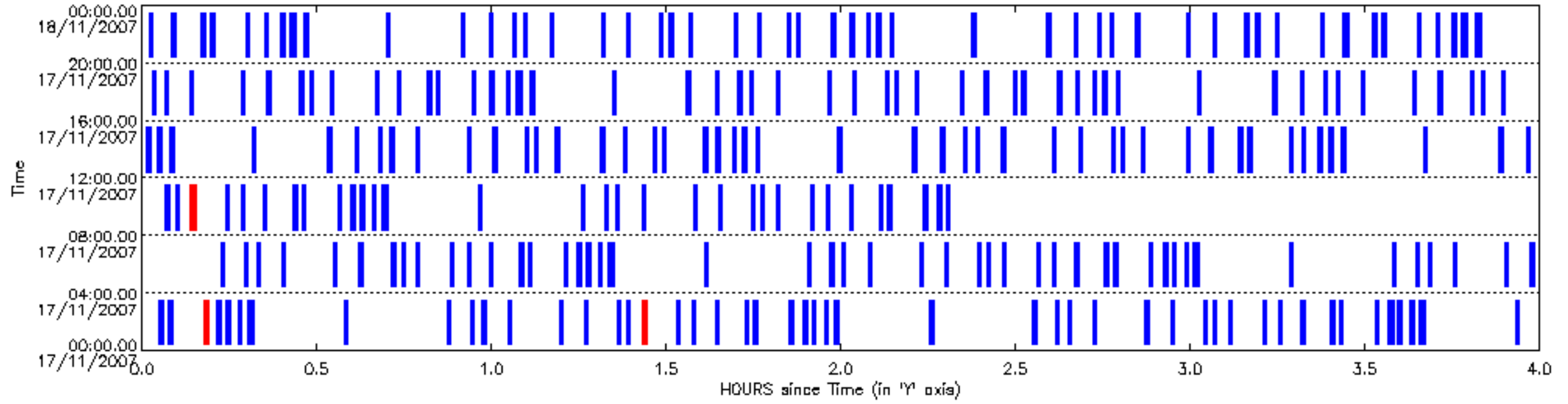
Lower curve: STD of SATU X axis

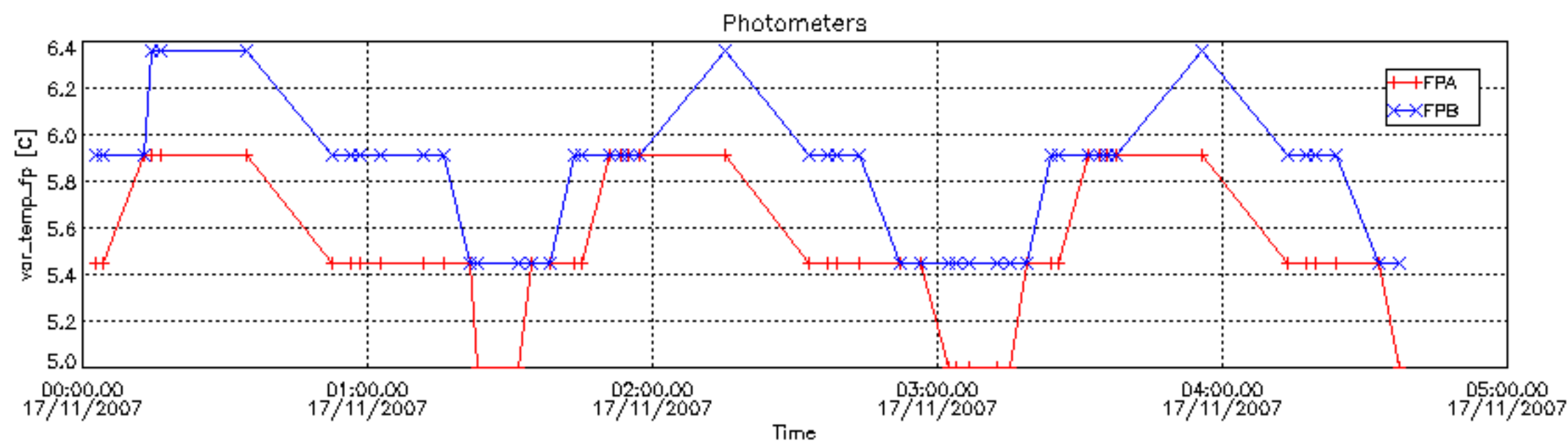
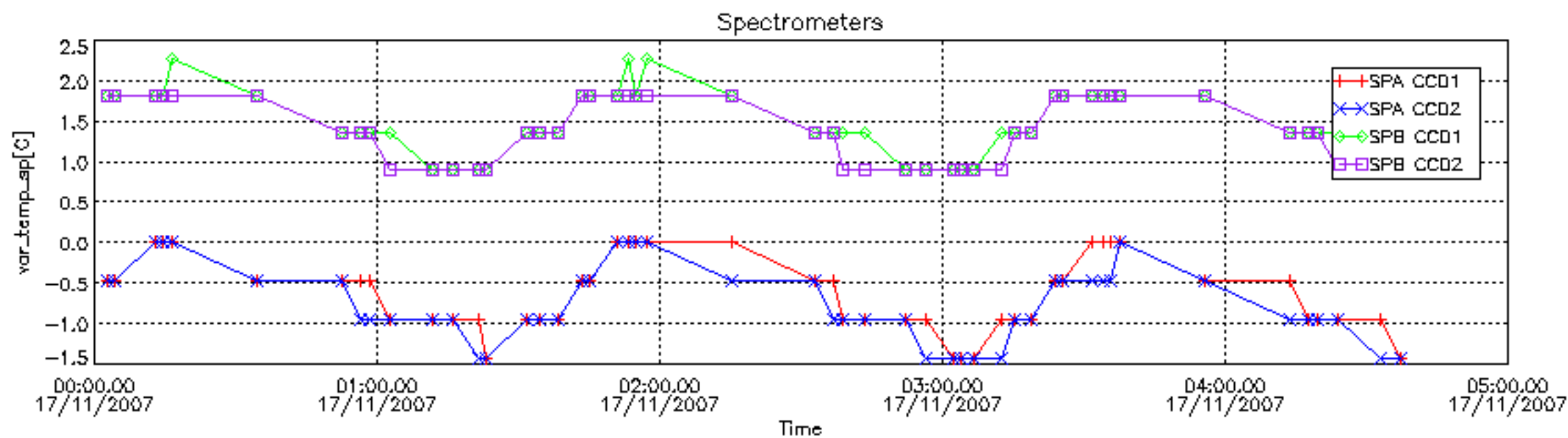


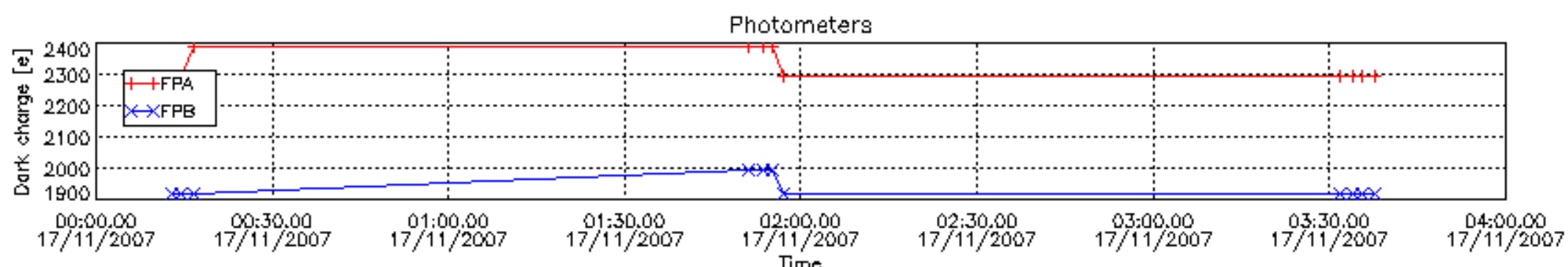
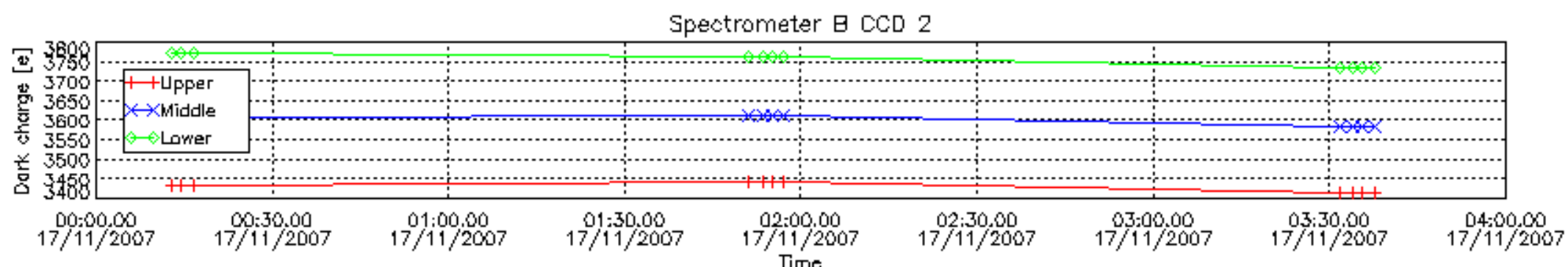
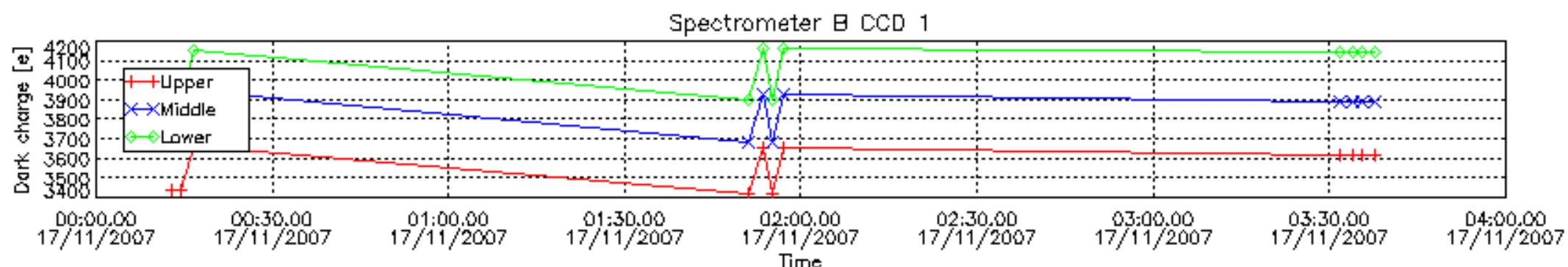
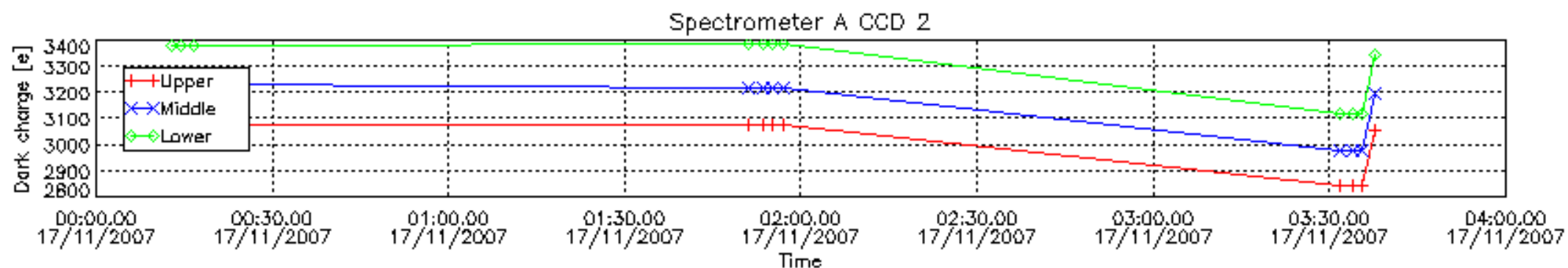
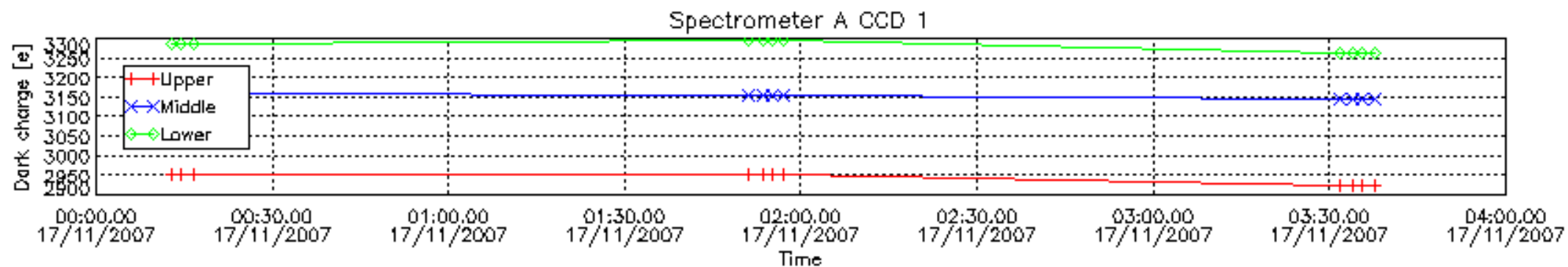
8. Auxiliary Data Files used for the production reported in section 2.4

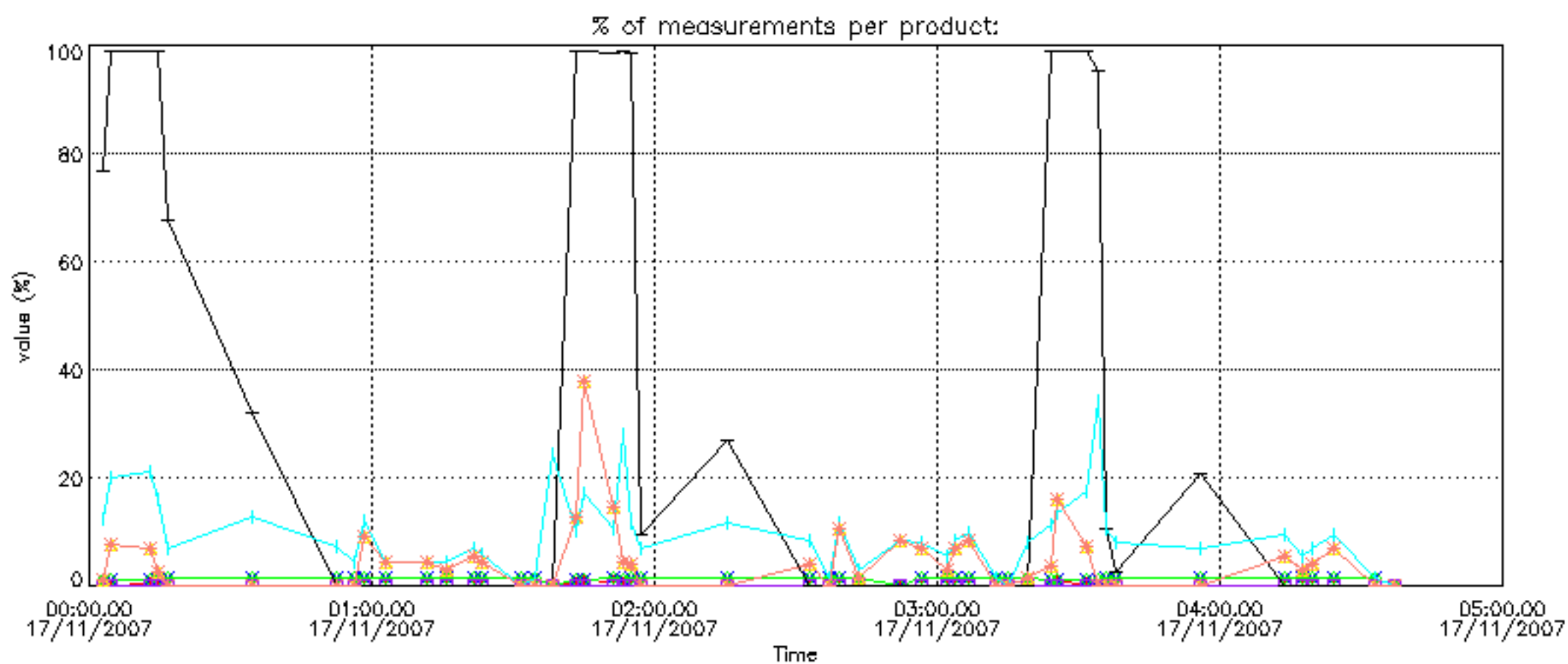
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	17-NOV-2007 00:02:51
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071114_162731_20071113_000000_20100101_000000	1	17-NOV-2007 00:02:51
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	17-NOV-2007 00:02:51
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	17-NOV-2007 00:02:51
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	17-NOV-2007 00:02:51
ECMWF_FILE	AUX_ECF_AXNECM20071116_063112_20071116_210000_20071117_090000	1	17-NOV-2007 00:02:51
OPTIONAL_ECMWF_FILE	MISSING	1	17-NOV-2007 00:02:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071116_210915_000038262063_00258_29871_4574.N1	1	17-NOV-2007 00:02:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071116_221819_000057382063_00258_29871_4575.N1	2	17-NOV-2007 00:04:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071116_235916_000057382063_00259_29872_4576.N1	18	17-NOV-2007 01:43:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071117_014013_000038262063_00260_29873_4577.N1	30	17-NOV-2007 02:56:37

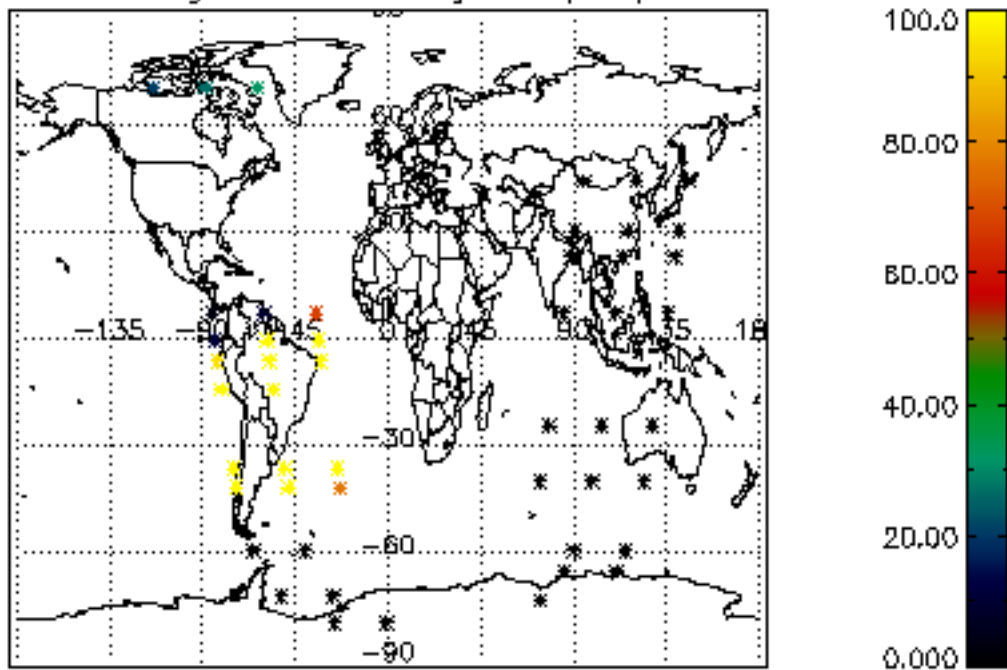




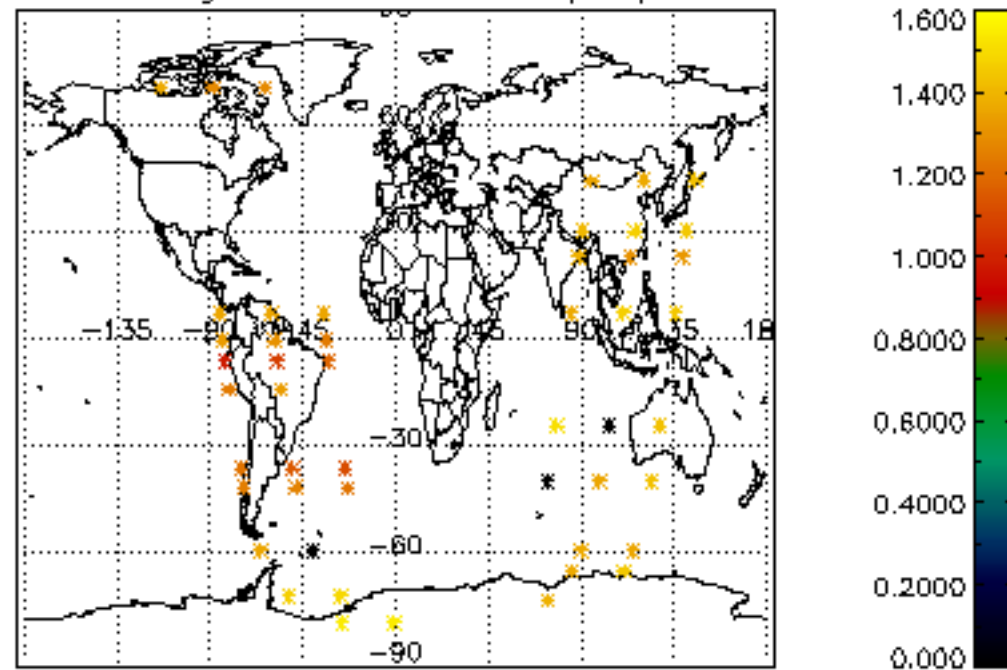




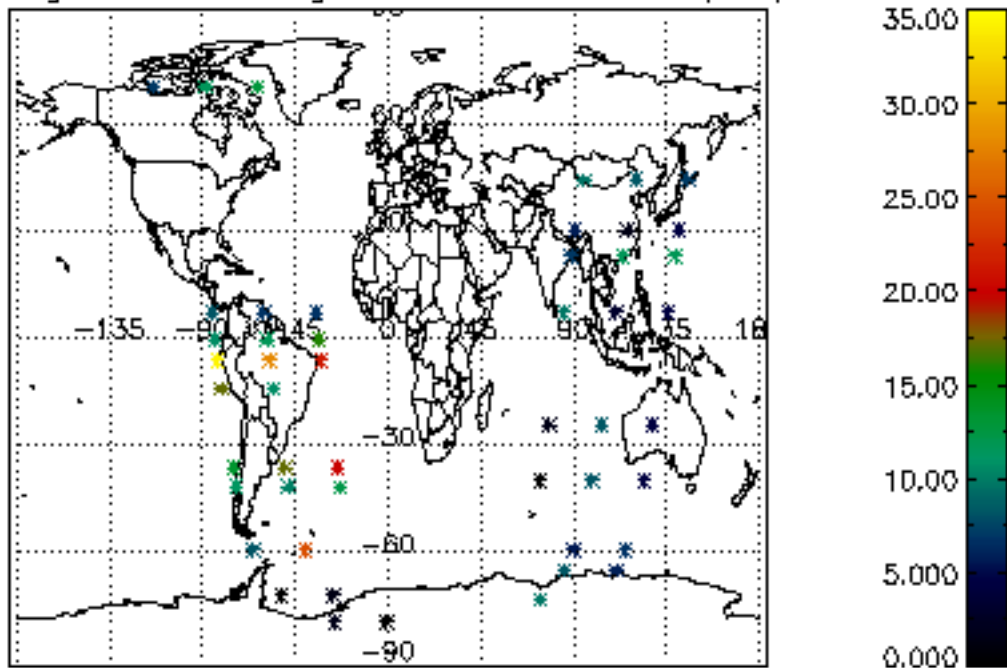
Percentage of cosmic ray hits per profile



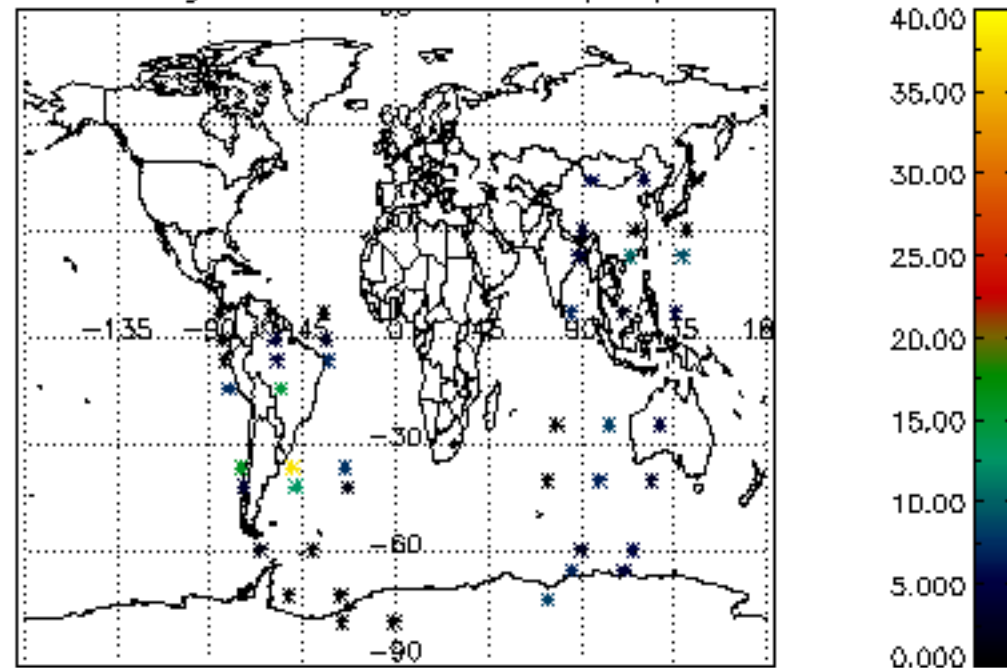
Percentage of datation errors per profile



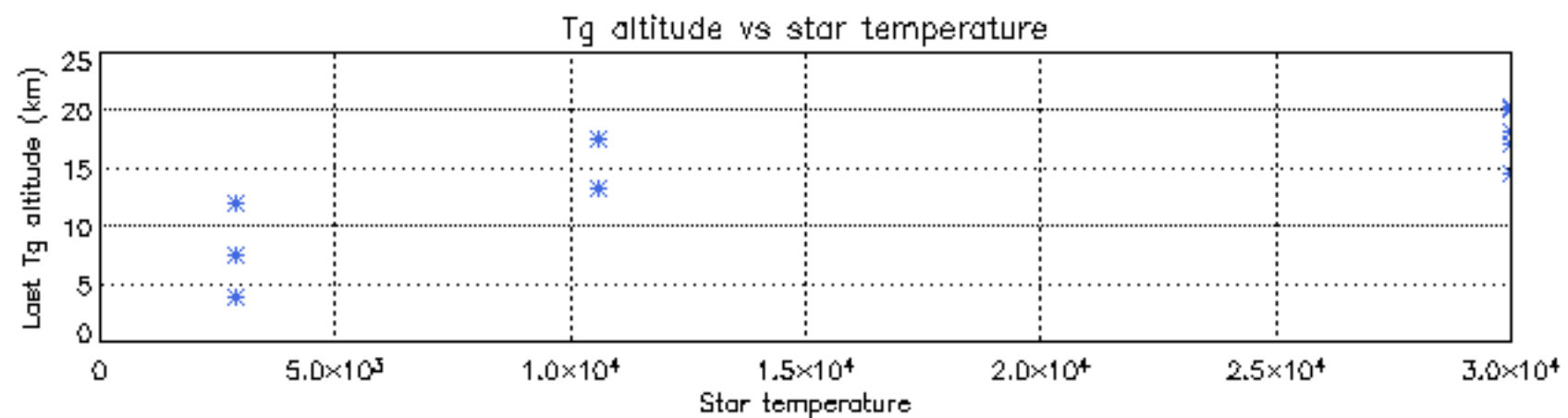
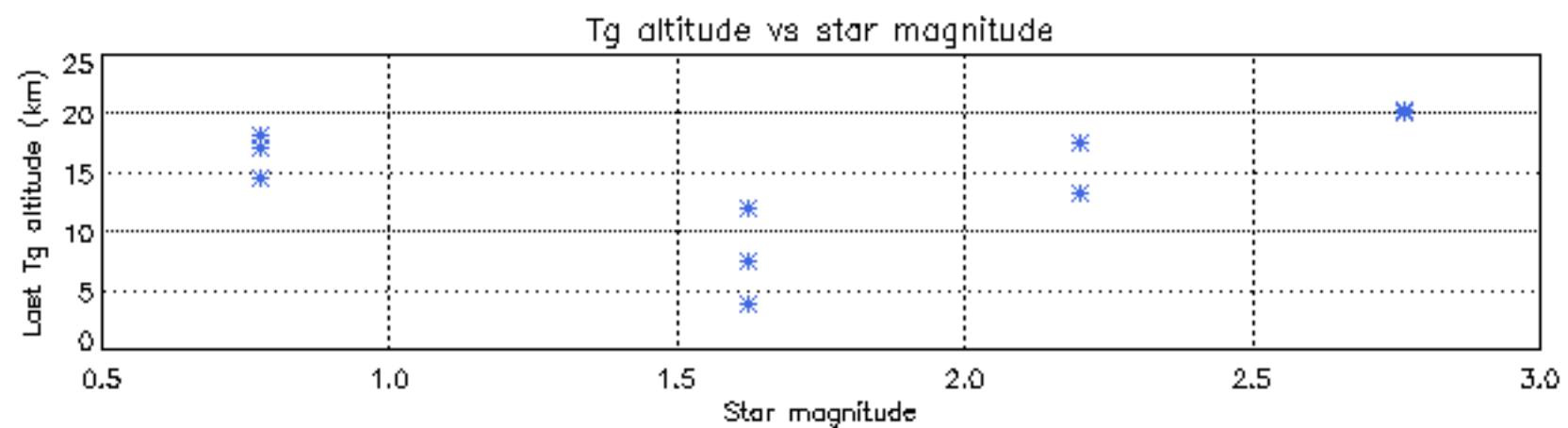
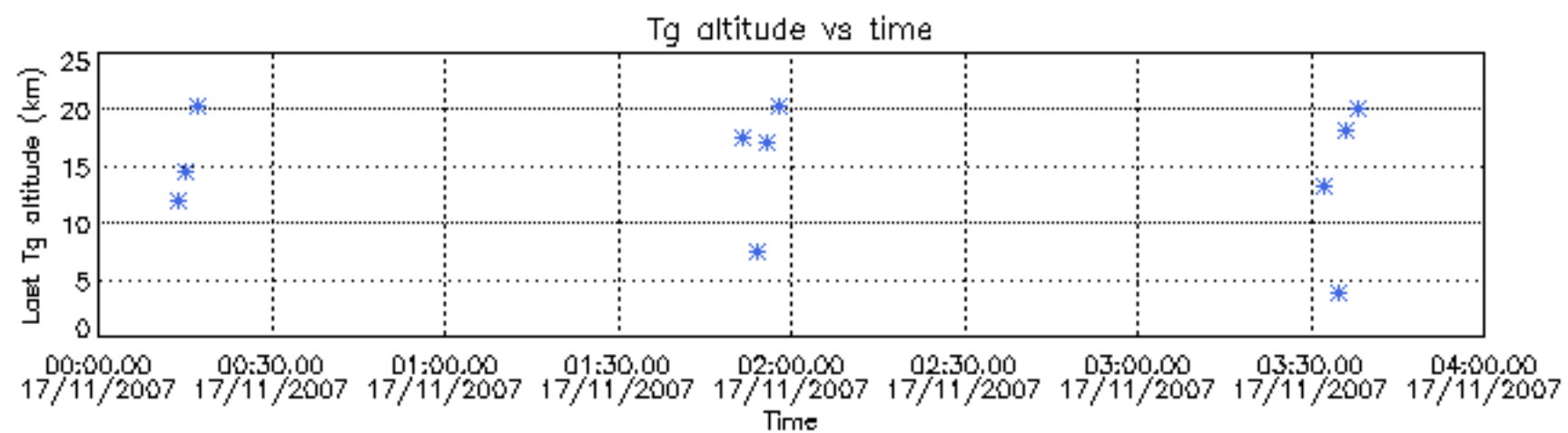
Percentage of star falling outside central band per profile



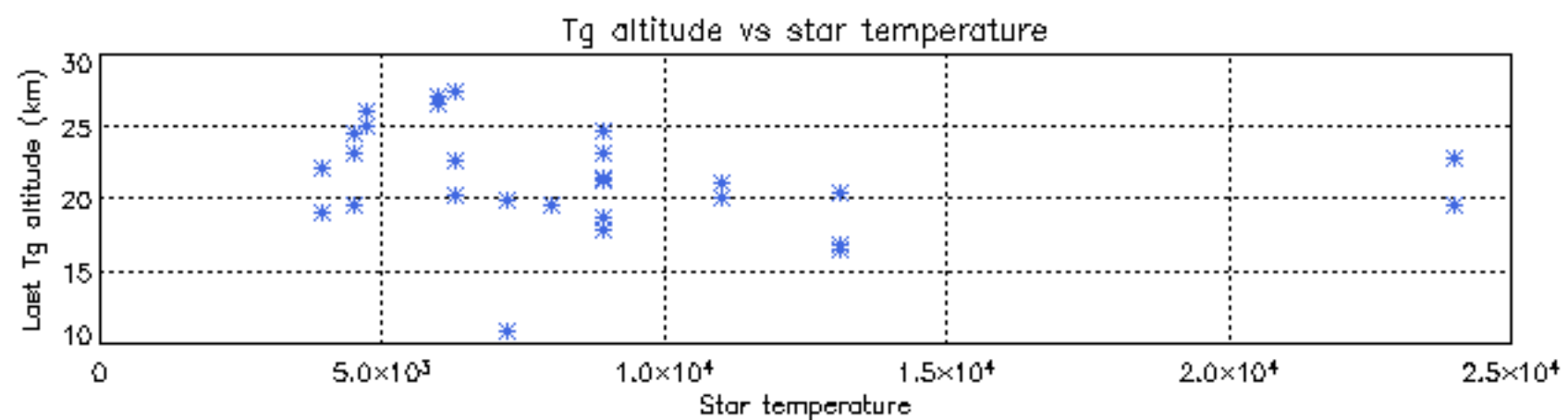
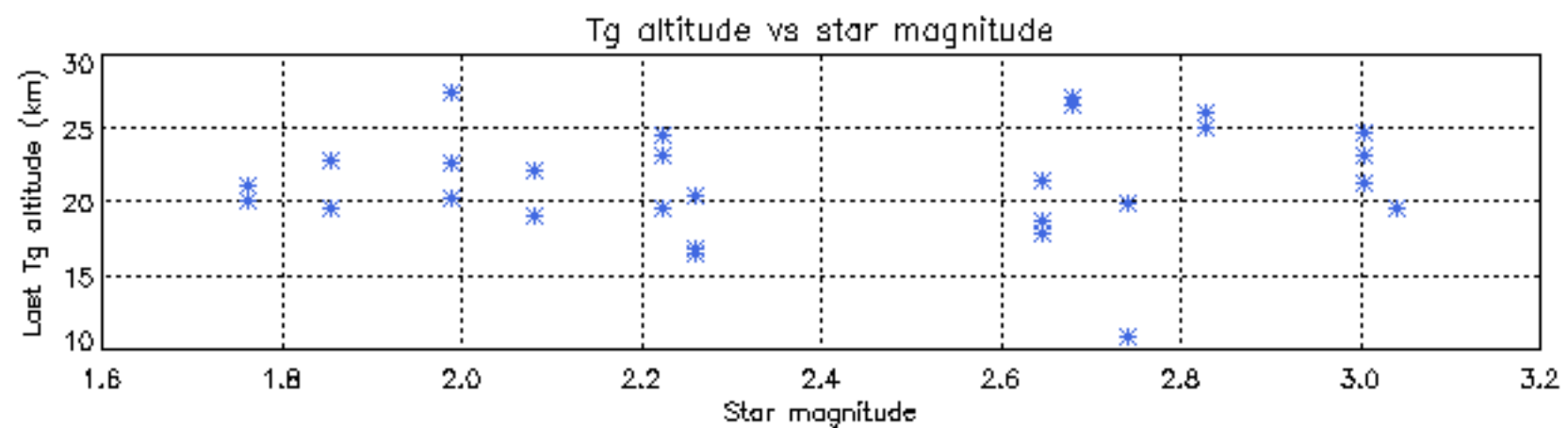
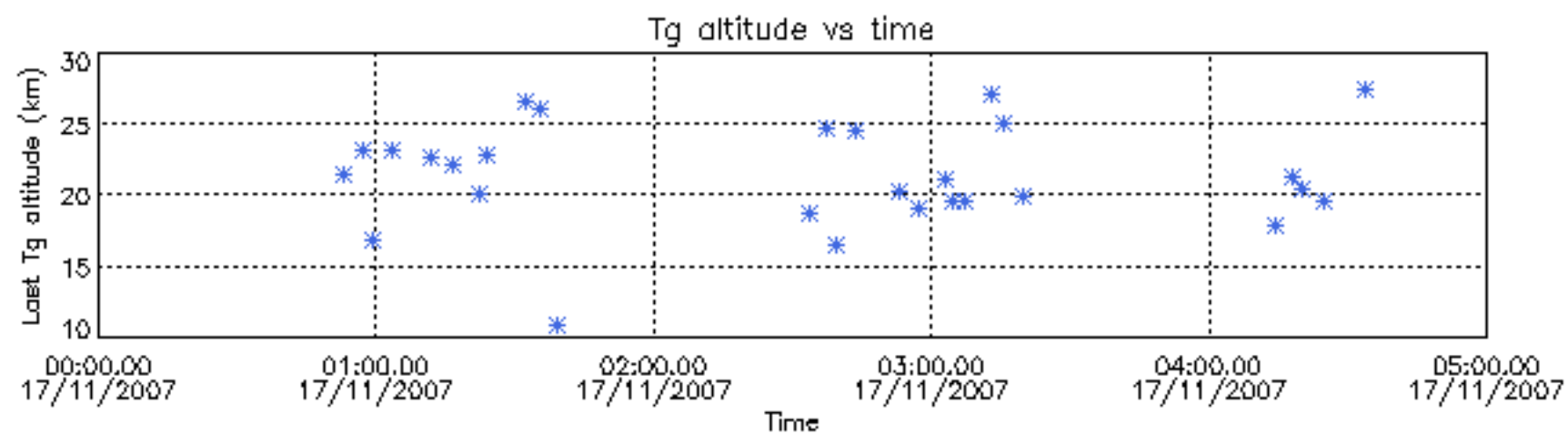
Percentage of saturation errors per profile



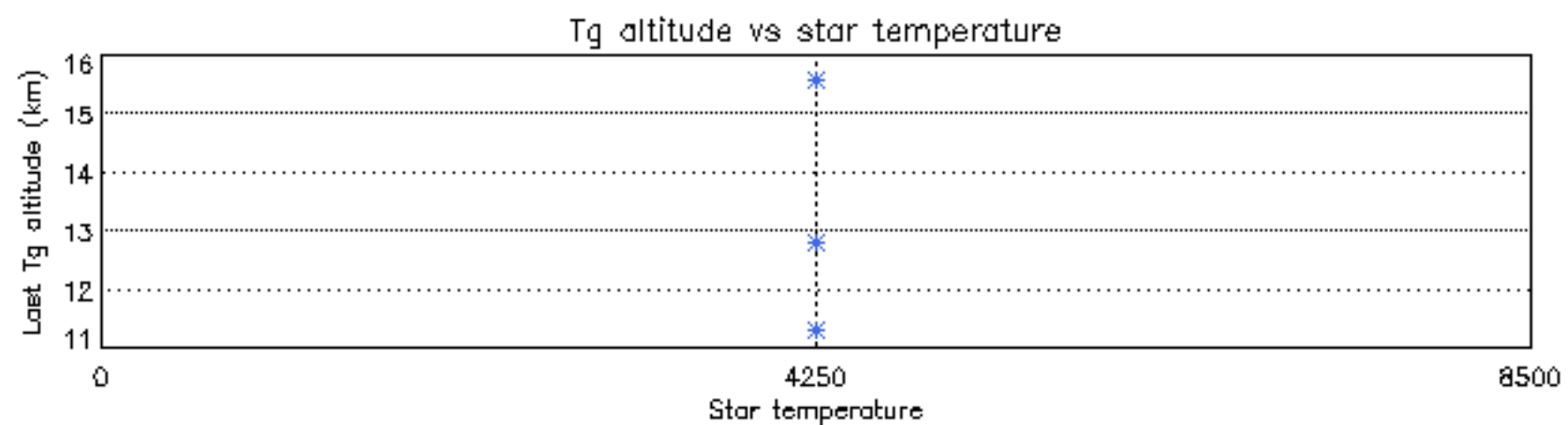
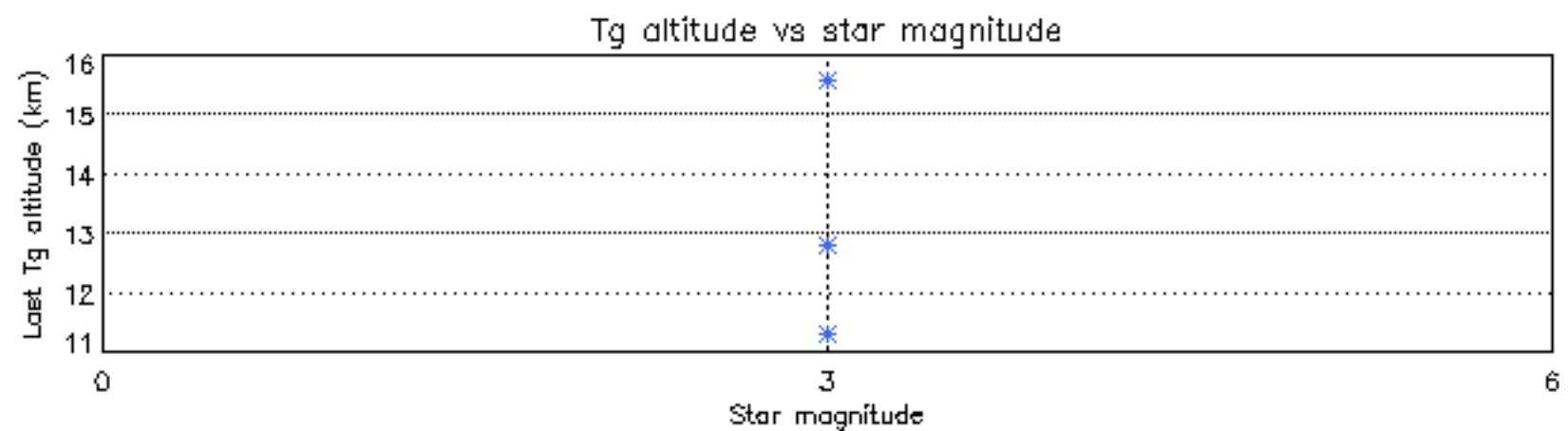
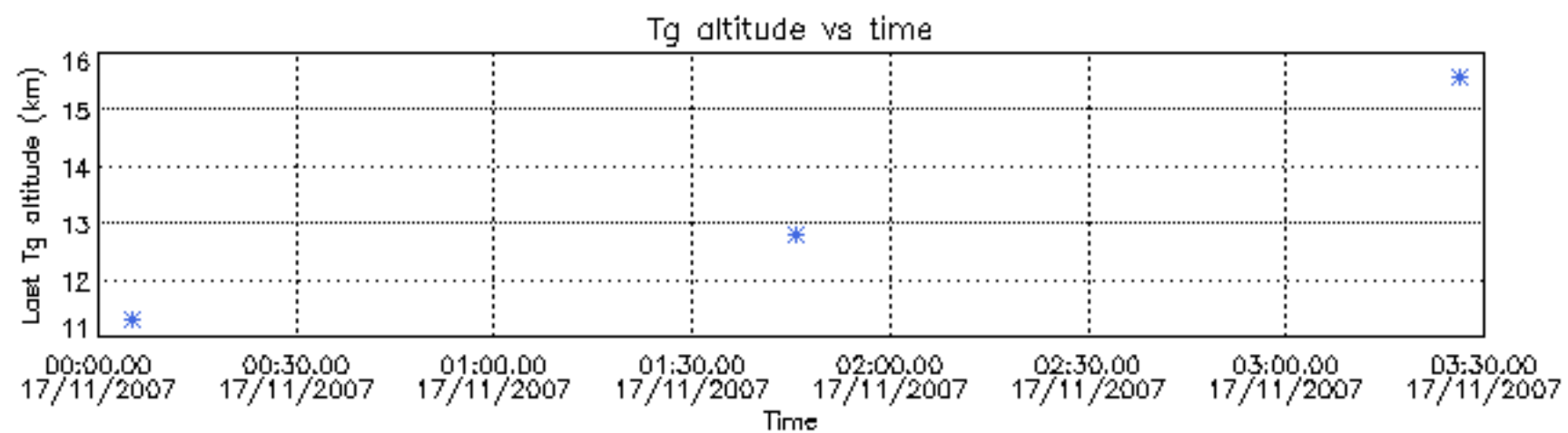
Tangent altitude at which the star is lost

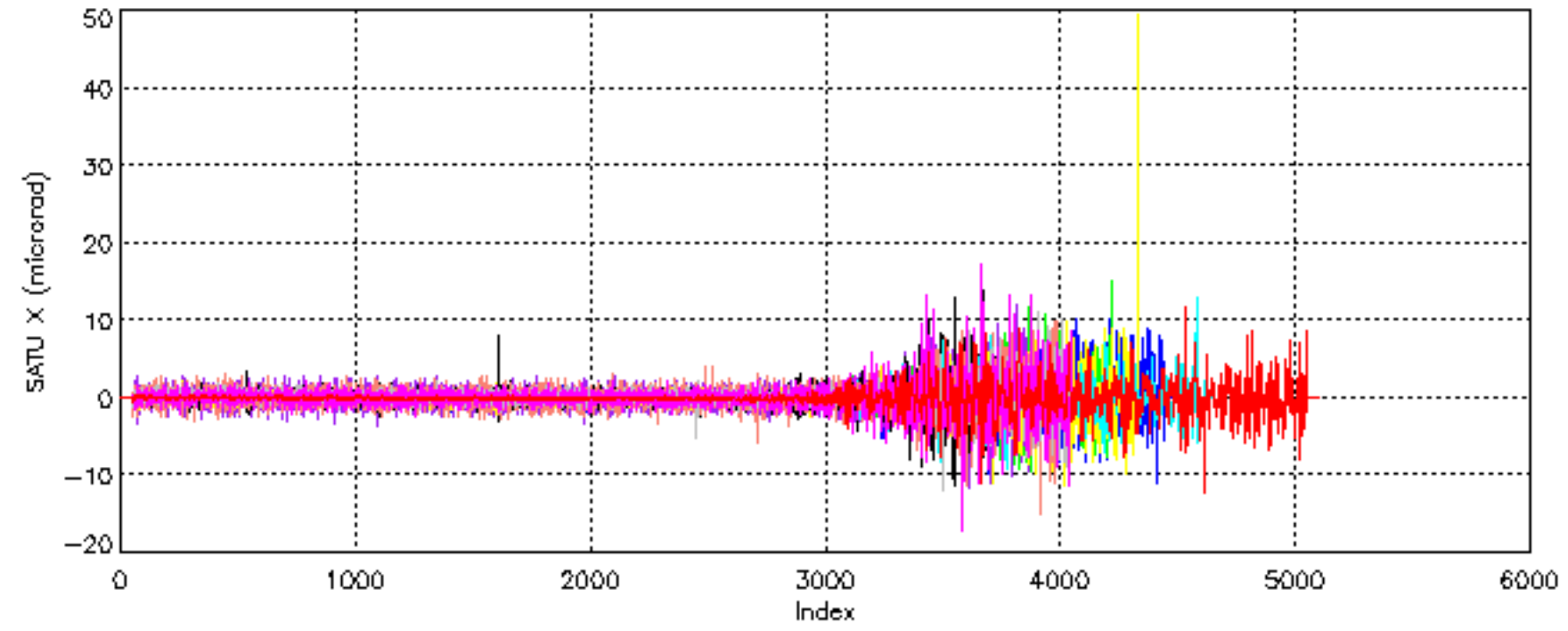


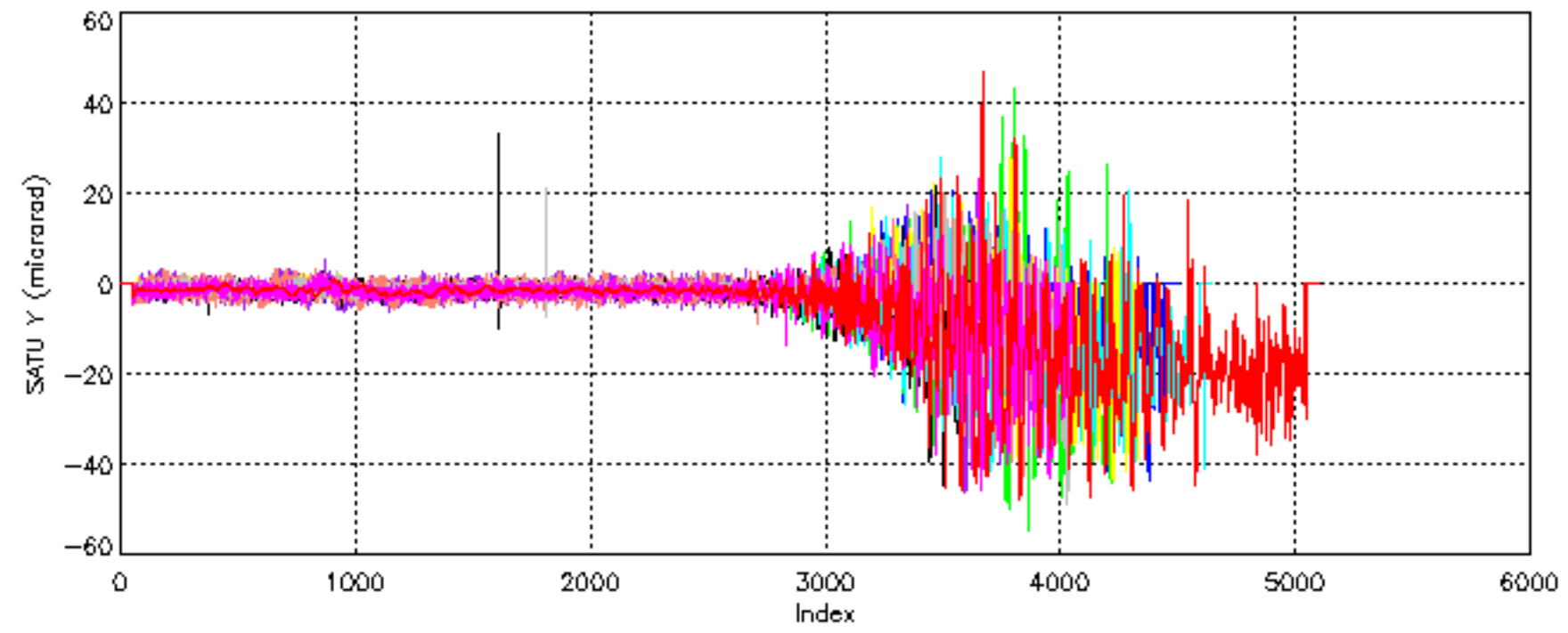
Tangent altitude at which the star is lost

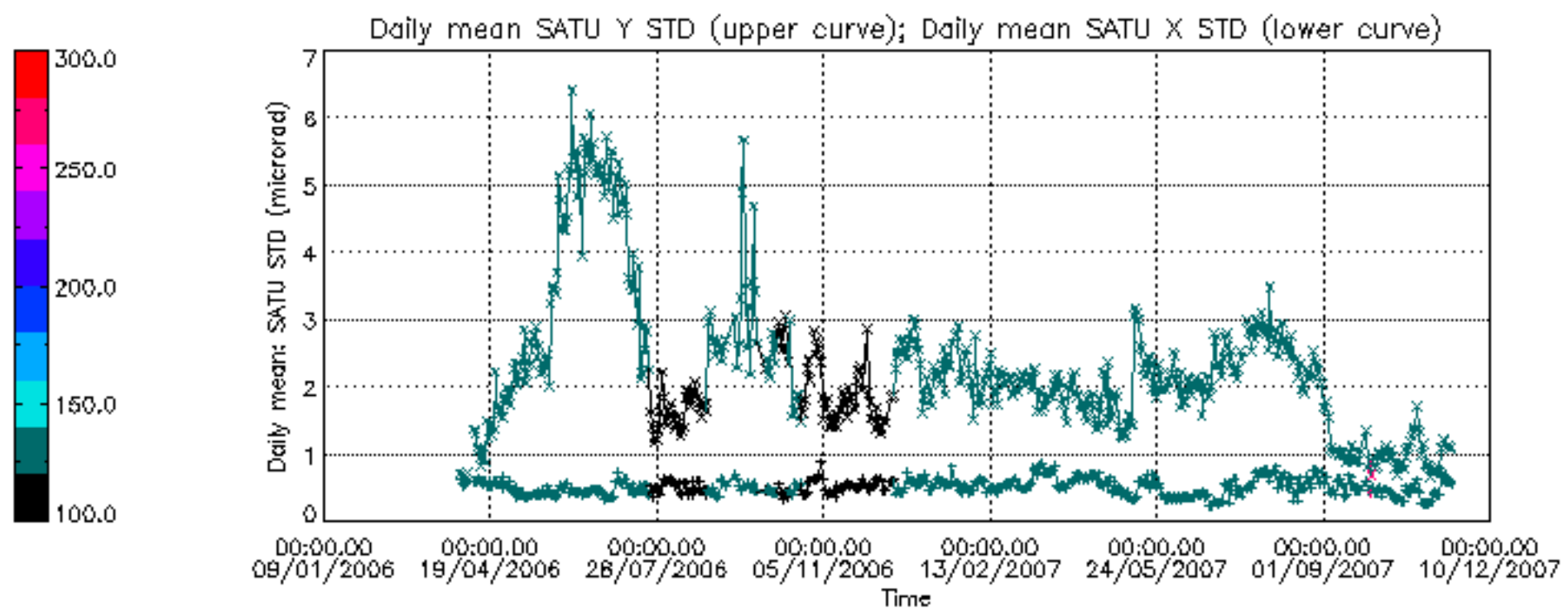


Tangent altitude at which the star is lost









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 2; 131.3; 01-NOV-2007 00:19:41; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;29644
 3; 212.3; 01-NOV-2007 00:21:02; Dark ; 46.5; 41; Eps Car ; 1.86; 4100;occ; 93; 0;29644
 4; 341.2; 01-NOV-2007 00:23:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29644
 5; 519.1; 01-NOV-2007 00:26:09; Dark ; 49.5; 2; Alp Car ;-0.74; 7000;occ; 99; 0;29644
 6; 1138.9; 01-NOV-2007 00:36:29; Dark ; 39.5; 157; The1Eri ; 2.91; 9300;occ; 79; 0;29644
 7; 2274.5; 01-NOV-2007 00:55:24; Bright; 40.0; 105; 6Bet Ari ; 2.64; 8900;occ; 80; 0;29644
 8; 2514.8; 01-NOV-2007 00:59:25; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;29644
 9; 2662.9; 01-NOV-2007 01:01:53; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;29644
 10; 2867.3; 01-NOV-2007 01:05:17; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;29644
 11; 2939.0; 01-NOV-2007 01:06:29; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29644
 12; 3423.6; 01-NOV-2007 01:14:34; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29644
 13; 3912.7; 01-NOV-2007 01:22:43; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;29644
 14; 4009.0; 01-NOV-2007 01:24:19; Bright; 56.0; 82; 48Bet UMa ; 2.37; 10600;occ; 112; 0;29644
 15; 4229.4; 01-NOV-2007 01:27:59; Bright; 56.0; 174; 52Psi UMa ; 3.00; 4400;occ; 112; 0;29644
 16; 4671.4; 01-NOV-2007 01:35:21; Bright; 39.0; 96; 68Del Leo ; 2.56; 9300;occ; 78; 0;29644

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 2; 131.9; 01-NOV-2007 02:00:18; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;29645
 3; 213.0; 01-NOV-2007 02:01:39; Dark ; 42.0; 41; Eps Car ; 1.86; 4100;occ; 84; 0;29645
 4; 342.2; 01-NOV-2007 02:03:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29645
 5; 519.9; 01-NOV-2007 02:06:46; Dark ; 53.0; 2; Alp Car ;-0.74; 7000;occ; 106; 0;29645
 6; 1139.3; 01-NOV-2007 02:17:05; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;29645
 7; 2274.5; 01-NOV-2007 02:36:00; Bright; 38.0; 105; 6Bet Ari ; 2.64; 8900;occ; 76; 0;29645
 8; 2514.7; 01-NOV-2007 02:40:00; Bright; 35.5; 53; 43Bet And ; 2.05; 3300;occ; 71; 0;29645
 9; 2662.6; 01-NOV-2007 02:42:28; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;29645
 10; 2867.4; 01-NOV-2007 02:45:53; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;29645
 11; 2938.9; 01-NOV-2007 02:47:05; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;29645
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 3;-1806.6; 01-NOV-2007 03:08:35; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 0;29645
 4;-1364.1; 01-NOV-2007 03:15:58; Bright; 38.5; 96; 68Del Leo ; 2.56; 9300;occ; 77; 0;29645
 5; -23.7; 01-NOV-2007 03:38:18; Dark ; 52.5; 65; Lam Vel ; 2.20; 4400;occ; 105; 0;29645
 6; 132.7; 01-NOV-2007 03:40:54; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;29646
 7; 213.6; 01-NOV-2007 03:42:15; Dark ; 41.0; 41; Eps Car ; 1.86; 4100;occ; 82; 0;29646
 8; 343.1; 01-NOV-2007 03:44:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29646
 9; 520.8; 01-NOV-2007 03:47:22; Dark ; 48.5; 2; Alp Car ;-0.74; 7000;occ; 97; 0;29646
 10; 1139.7; 01-NOV-2007 03:57:41; Dark ; 41.0; 157; The1Eri ; 2.91; 9300;occ; 82; 0;29646
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 13; 2662.4; 01-NOV-2007 04:23:04; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;29646
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 4;-1364.1; 01-NOV-2007 04:56:34; Bright; 42.0; 96; 68Del Leo ; 2.56; 9300;occ; 84; 0;29646
 5; -22.9; 01-NOV-2007 05:18:55; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;29646
 6; 133.2; 01-NOV-2007 05:21:31; Dark ; 45.0; 46; Del Vel ; 1.95; 10600;occ; 90; 0;29647
 7; 214.2; 01-NOV-2007 05:22:52; Dark ; 50.5; 41; Eps Car ; 1.86; 4100;occ; 101; 0;29647
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 9; 521.5; 01-NOV-2007 05:27:59; Dark ; 63.0; 2; Alp Car ;-0.74; 7000;occ; 126; 0;29647
 10; 1140.0; 01-NOV-2007 05:38:18; Dark ; 38.0; 157; The1Eri ; 2.91; 9300;occ; 76; 0;29647
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 12; 2514.7; 01-NOV-2007 06:01:12; Bright; 39.5; 53; 43Bet And ; 2.05; 3300;occ; 79; 0;29647
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 3; 2514.4; 01-NOV-2007 21:06:36; Bright; 37.0; 53; 43Bet And ; 2.05; 3300;occ; 74; 0;29656


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4; 2659.6; 01-NOV-2007 21:09:01; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;29656
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6; 2938.7; 01-NOV-2007 21:13:40; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;29656
7; 3423.7; 01-NOV-2007 21:21:45; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;29656
8; 3911.5; 01-NOV-2007 21:29:53; Bright; 39.5; 36; 50Alp UMA ; 1.80; 6300;occ; 79; 0;29656
9; 4008.4; 01-NOV-2007 21:31:29; Bright; 56.0; 82; 48Bet UMA ; 2.37; 10600;occ; 112; 0;29656
10; 4229.7; 01-NOV-2007 21:35:11; Bright; 57.0; 174; 52Psi UMA ; 3.00; 4400;occ; 114; 0;29656
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3; -1806.4; 01-NOV-2007 06:29:47; Bright; 37.0; 174; 52Psi UMA ; 3.00; 4400;occ; 74; 0;29647
4; -1363.6; 01-NOV-2007 06:37:10; Bright; 45.5; 96; 68Del Leo ; 2.56; 9300;occ; 91; 0;29647
5; -22.0; 01-NOV-2007 06:59:32; Dark ; 58.0; 65; Lam Vel ; 2.20; 4400;occ; 116; 0;29647
6; 134.0; 01-NOV-2007 07:02:08; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;29648
7; 214.8; 01-NOV-2007 07:03:28; Dark ; 40.5; 41; Eps Car ; 1.86; 4100;occ; 81; 0;29648
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3; 2661.8; 01-NOV-2007 07:44:15; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;29648
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4;	353.5;	01-NOV-2007	22:11:10;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	29657
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14;	4008.1;	01-NOV-2007	23:12:05;	Bright;	;	37.0;	82;	48Bet UMa	;	2.37;	10600;occ;	74;	0;	29657
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16;	4674.9;	01-NOV-2007	23:23:12;	Bright;	;	38.0;	96;	68Del Leo	;	2.56;	9300;occ;	76;	0;	29657

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3;	220.7;	01-NOV-2007	23:49:34;	Dark	;	44.5;	41;	Eps Car	;	1.86;	4100;occ;	89;	0;	29658
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8;	2514.3;	02-NOV-2007	00:27:47;	Bright;	;	38.5;	53;	43Bet And	;	2.05;	3300;occ;	77;	0;	29658
9;	2658.9;	02-NOV-2007	00:30:12;	Bright;	;	39.5;	73;	57Gam1And	;	2.26;	13100;occ;	79;	0;	29658
10;	2867.8;	02-NOV-2007	00:33:41;	Bright;	;	33.5;	68;	18Alp Cas	;	2.22;	4500;occ;	67;	0;	29658
11;	2938.5;	02-NOV-2007	00:34:51;	Bright;	;	36.0;	76;	27Gam Cas	;	2.30;	30000;occ;	72;	0;	29658
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13;	3911.3;	02-NOV-2007	00:51:04;	Bright;	;	40.0;	36;	50Alp UMa	;	1.80;	6300;occ;	80;	0;	29658
14;	4008.0;	02-NOV-2007	00:52:41;	Bright;	;	37.5;	82;	48Bet UMa	;	2.37;	10600;occ;	75;	0;	29658
15;	4229.8;	02-NOV-2007	00:56:23;	Bright;	;	36.5;	174;	52Psi UMa	;	3.00;	4400;occ;	73;	0;	29658
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3;	221.3;	02-NOV-2007	01:30:10;	Dark	;	41.5;	41;	Eps Car	;	1.86;	4100;occ;	83;	0;	29659
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5;	530.6;	02-NOV-2007	01:35:19;	Dark	;	49.5;	2;	Alp Car	;	-0.74;	7000;occ;	99;	0;	29659
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9;	2658.7;	02-NOV-2007	02:10:47;	Bright;	;	40.0;	73;	57Gam1And	;	2.26;	13100;occ;	80;	0;	29659
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6; 2938.4; 02-NOV-2007 20:42:02; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;29670
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9; 4007.1; 02-NOV-2007 20:59:51; Bright; 38.0; 82; 48Bet UMA ; 2.37; 10600;occ; 76; 0;29670
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14; 4811.1; 20-NOV-2007 21:47:43; Bright; 35.5; 138; 47Eps Vir ; 2.83; 4700;occ; 71; 0;29928
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16; 5447.4; 20-NOV-2007 08:33:32; Dark ; 41.5; 171; 2Eps Crv ; 3.00; 4250;occ; 83; 0;29920
17; 5806.4; 20-NOV-2007 08:39:31; Dark ; 39.0; 64; Gam Cen ; 2.20; 10600;occ; 78; 0;29920
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19; 6172.0; 20-NOV-2007 08:45:36; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;29920
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13; 4809.7; 20-NOV-2007 13:24:42; Bright; 34.5; 138; 47Eps Vir ; 2.83; 4700;occ; 69; 0;29923
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19; 6173.3; 20-NOV-2007 13:47:25; Dark ; 37.0; 124; The Car ; 2.76; 30000;occ; 74; 0;29923
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21; 6345.3; 20-NOV-2007 13:50:17; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;29923
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