

GOMOS Daily Report 16-NOV-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	19NOV2007 12:59:03
Data source version	GOMOS/5.00
Start time of products	16-11-2007 (16NOV2007 00:00:00)
Stop time of products	17-11-2007 (17NOV2007 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)

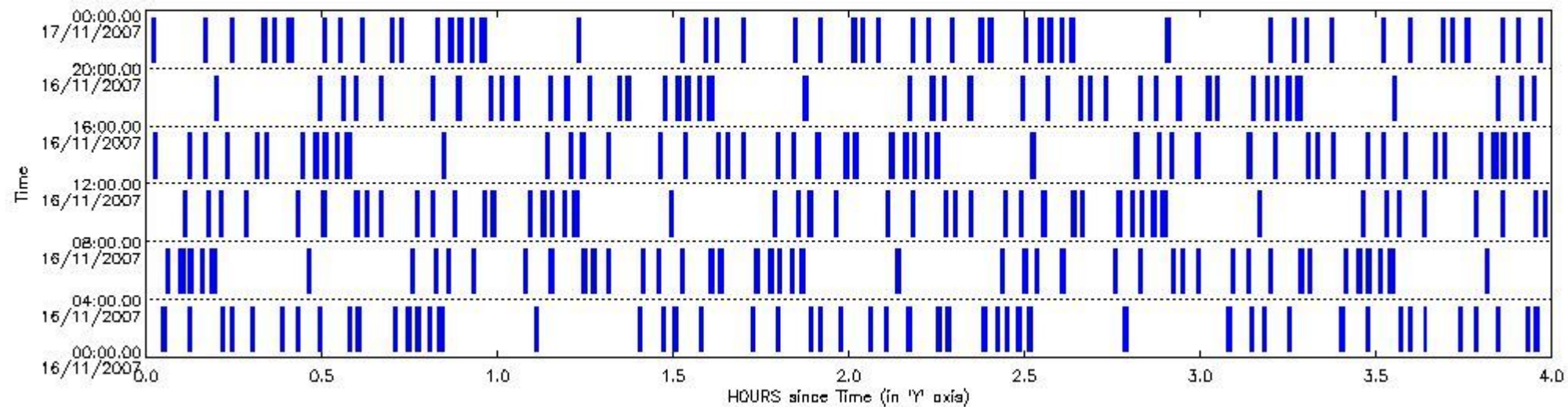
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

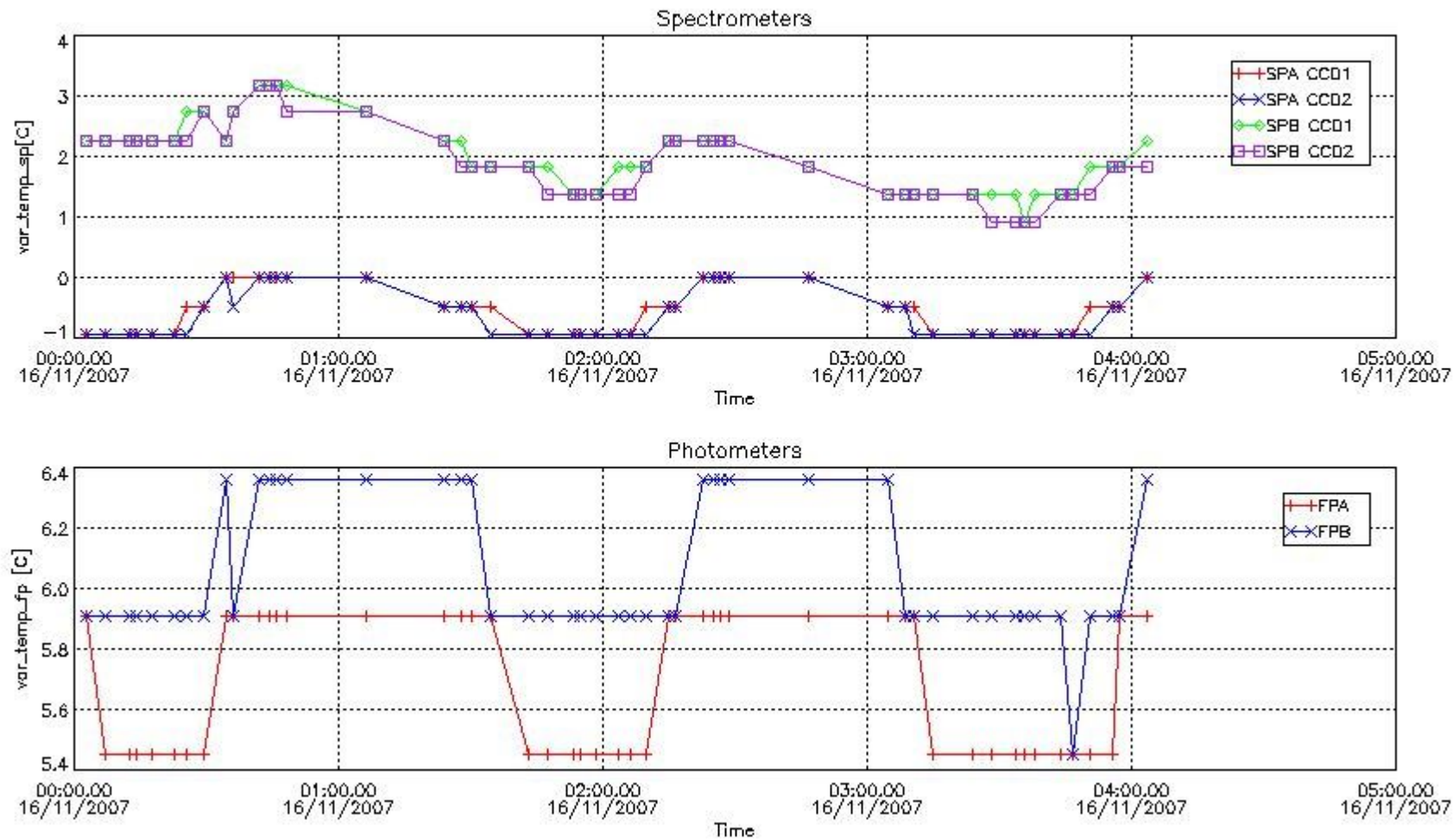
No missing products.

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_1PNPDE20071116_000240_000000372063_00245_29858_9267.N1	16-NOV-2007 00:02:40	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	29858	No
2	GOM_TRA_1PNPDE20071116_000701_000000352063_00245_29858_9268.N1	16-NOV-2007 00:07:01	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	29858	No
3	GOM_TRA_1PNPDE20071116_001238_000000372063_00245_29858_9269.N1	16-NOV-2007 00:12:38	Bright	36.500	32	77Eps UMa	1.7630	11000.	73	29858	No
4	GOM_TRA_1PNPDE20071116_001417_000000332063_00245_29858_9270.N1	16-NOV-2007 00:14:17	Bright	33.000	39	85Eta UMa	1.8540	24000.	66	29858	No
5	GOM_TRA_1PNPDE20071116_001746_000000352063_00245_29858_9271.N1	16-NOV-2007 00:17:46	Bright	35.000	152	12Alp2CVn	2.8900	11000.	70	29858	No
6	GOM_TRA_1PNPDE20071116_002249_000000332063_00245_29858_9272.N1	16-NOV-2007 00:22:49	Bright	32.500	111	8Eta Boo	2.6800	6000.0	65	29858	No
7	GOM_TRA_1PNPDE20071116_002531_000000342063_00245_29858_9273.N1	16-NOV-2007 00:25:31	Bright	33.500	138	47Eps Vir	2.8280	4700.0	67	29858	No
8	GOM_TRA_1PNPDE20071116_002919_000000362063_00245_29858_9274.N1	16-NOV-2007 00:29:19	Bright	35.500	121	29Gam Vir	2.7400	7200.0	71	29858	No
9	GOM_TRA_1PNPDE20071116_003422_000000432063_00245_29858_9378.N1	16-NOV-2007 00:34:22	Twilight	42.500	100	4Gam Crv	2.5800	13100.	85	29858	No
10	GOM_TRA_1PNPDE20071116_003553_000000422063_00245_29858_9379.N1	16-NOV-2007 00:35:53	Twilight	41.500	171	2Eps Crv	3.0010	4250.0	83	29858	No
11	GOM_TRA_1PNPDE20071116_004208_000000372063_00245_29858_9380.N1	16-NOV-2007 00:42:08	Dark	37.000	64	Gam Cen	2.2000	10600.	74	29858	No
12	GOM_TRA_1PNPDE20071116_004424_000000422063_00245_29858_9381.N1	16-NOV-2007 00:44:24	Dark	42.000	26	Gam Cru	1.6240	2900.0	84	29858	No

13	GOM_TRA_1PNPDE20071116_004601_000000392063_00245_29858_9382.N1	16-NOV-2007 00:46:01	Dark	38.500	12	Alp1Cru	0.77500	30000.	77	29858	No
14	GOM_TRA_1PNPDE20071116_004805_000000362063_00246_29859_9383.N1	16-NOV-2007 00:48:05	Dark	36.000	124	The Car	2.7640	30000.	72	29859	No
15	GOM_TRA_1PNPDE20071116_010613_000000382063_00246_29859_9384.N1	16-NOV-2007 01:06:13	Straylight	38.000	157	The1Eri	2.9060	9300.0	76	29859	No
16	GOM_TRA_1PNPDE20071116_012357_000000362063_00246_29859_9385.N1	16-NOV-2007 01:23:57	Bright	35.500	105	6Bet Ari	2.6450	8900.0	71	29859	No
17	GOM_TRA_1PNPDE20071116_012757_000000362063_00246_29859_9386.N1	16-NOV-2007 01:27:57	Bright	36.000	173	4Bet Tri	3.0040	8900.0	72	29859	No
18	GOM_TRA_1PNPDE20071116_013001_000000372063_00246_29859_9387.N1	16-NOV-2007 01:30:01	Bright	37.000	73	57Gam1And	2.2600	13100.	74	29859	No
19	GOM_TRA_1PNPDE20071116_013422_000000362063_00246_29859_9388.N1	16-NOV-2007 01:34:22	Bright	36.000	68	18Alp Cas	2.2250	4500.0	72	29859	No
20	GOM_TRA_1PNPDE20071116_014315_000000332063_00246_29859_9389.N1	16-NOV-2007 01:43:15	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	29859	No
21	GOM_TRA_1PNPDE20071116_014737_000000382063_00246_29859_9390.N1	16-NOV-2007 01:47:37	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	29859	No
22	GOM_TRA_1PNPDE20071116_015314_000000362063_00246_29859_9391.N1	16-NOV-2007 01:53:14	Bright	36.000	32	77Eps UMa	1.7630	11000.	72	29859	No
23	GOM_TRA_1PNPDE20071116_015453_000000352063_00246_29859_9392.N1	16-NOV-2007 01:54:53	Bright	35.000	39	85Eta UMa	1.8540	24000.	70	29859	No
24	GOM_TRA_1PNPDE20071116_015822_000000342063_00246_29859_9393.N1	16-NOV-2007 01:58:22	Bright	33.500	152	12Alp2CVn	2.8900	11000.	67	29859	No
25	GOM_TRA_1PNPDE20071116_020325_000000332063_00246_29859_9394.N1	16-NOV-2007 02:03:25	Bright	32.500	111	8Eta Boo	2.6800	6000.0	65	29859	No
26	GOM_TRA_1PNPDE20071116_020607_000000342063_00246_29859_9395.N1	16-NOV-2007 02:06:07	Bright	33.500	138	47Eps Vir	2.8280	4700.0	67	29859	No
27	GOM_TRA_1PNPDE20071116_020956_000000352063_00246_29859_9396.N1	16-NOV-2007 02:09:56	Bright	35.000	121	29Gam Vir	2.7400	7200.0	70	29859	No
28	GOM_TRA_1PNPDE20071116_021458_000000422063_00246_29859_9513.N1	16-NOV-2007 02:14:58	Twilight	42.000	100	4Gam Crv	2.5800	13100.	84	29859	No
29	GOM_TRA_1PNPDE20071116_021629_000000442063_00246_29859_9514.N1	16-NOV-2007 02:16:29	Twilight	44.000	171	2Eps Crv	3.0010	4250.0	88	29859	No
30	GOM_TRA_1PNPDE20071116_022244_000000402063_00246_29859_9515.N1	16-NOV-2007 02:22:44	Dark	39.500	64	Gam Cen	2.2000	10600.	79	29859	No
31	GOM_TRA_1PNPDE20071116_022500_000000452063_00246_29859_9516.N1	16-NOV-2007 02:25:00	Dark	44.500	26	Gam Cru	1.6240	2900.0	89	29859	No
32	GOM_TRA_1PNPDE20071116_022637_000000412063_00246_29859_9517.N1	16-NOV-2007 02:26:37	Dark	41.000	12	Alp1Cru	0.77500	30000.	82	29859	No
33	GOM_TRA_1PNPDE20071116_022841_000000372063_00247_29860_9518.N1	16-NOV-2007 02:28:41	Dark	37.000	124	The Car	2.7640	30000.	74	29860	No
34	GOM_TRA_1PNPDE20071116_024649_000000382063_00247_29860_9519.N1	16-NOV-2007 02:46:49	Straylight	38.000	157	The1Eri	2.9060	9300.0	76	29860	No
35	GOM_TRA_1PNPDE20071116_030433_000000372063_00247_29860_9520.N1	16-NOV-2007 03:04:33	Bright	37.000	105	6Bet Ari	2.6450	8900.0	74	29860	No
36	GOM_TRA_1PNPDE20071116_030833_000000362063_00247_29860_9521.N1	16-NOV-2007 03:08:33	Bright	35.500	173	4Bet Tri	3.0040	8900.0	71	29860	No
37	GOM_TRA_1PNPDE20071116_031037_000000392063_00247_29860_9522.N1	16-NOV-2007 03:10:37	Bright	38.500	73	57Gam1And	2.2600	13100.	77	29860	No
38	GOM_TRA_1PNPDE20071116_031458_000000342063_00247_29860_9523.N1	16-NOV-2007 03:14:58	Bright	34.000	68	18Alp Cas	2.2250	4500.0	68	29860	No
39	GOM_TRA_1PNPDE20071116_032351_000000372063_00247_29860_9524.N1	16-NOV-2007 03:23:51	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	29860	No
40	GOM_TRA_1PNPDE20071116_032813_000000342063_00247_29860_9671.N1	16-NOV-2007 03:28:13	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	29860	No
41	GOM_TRA_1PNPDE20071116_033350_000000372063_00247_29860_9672.N1	16-NOV-2007 03:33:50	Bright	37.000	32	77Eps UMa	1.7630	11000.	74	29860	No
42	GOM_TRA_1PNPDE20071116_033529_000000352063_00247_29860_9673.N1	16-NOV-2007 03:35:29	Bright	35.000	39	85Eta UMa	1.8540	24000.	70	29860	No
43	GOM_TRA_1PNPDE20071116_033805_000000282063_00247_29860_9674.N1	16-NOV-2007 03:38:05	Bright	28.000	180	27Gam Boo	3.0400	8000.0	56	29860	No
44	GOM_TRA_1PNPDE20071116_034401_000000322063_00247_29860_9675.N1	16-NOV-2007 03:44:01	Bright	32.000	111	8Eta Boo	2.6800	6000.0	64	29860	No
45	GOM_TRA_1PNPDE20071116_034643_000000342063_00247_29860_9676.N1	16-NOV-2007 03:46:43	Bright	33.500	138	47Eps Vir	2.8280	4700.0	67	29860	No
46	GOM_TRA_1PNPDE20071116_035032_000000362063_00247_29860_9677.N1	16-NOV-2007 03:50:32	Bright	35.500	121	29Gam Vir	2.7400	7200.0	71	29860	No
47	GOM_TRA_1PNPDE20071116_035535_000000412063_00247_29860_9678.N1	16-NOV-2007 03:55:35	Twilight	41.000	100	4Gam Crv	2.5800	13100.	82	29860	No
48	GOM_TRA_1PNPDE20071116_035706_000000422063_00247_29860_9679.N1	16-NOV-2007 03:57:06	Twilight	41.500	171	2Eps Crv	3.0010	4250.0	83	29860	No
49	GOM_TRA_1PNPDE20071116_040320_000000412063_00247_29860_9680.N1	16-NOV-2007 04:03:20	Dark	41.000	64	Gam Cen	2.2000	10600.	82	29860	No

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



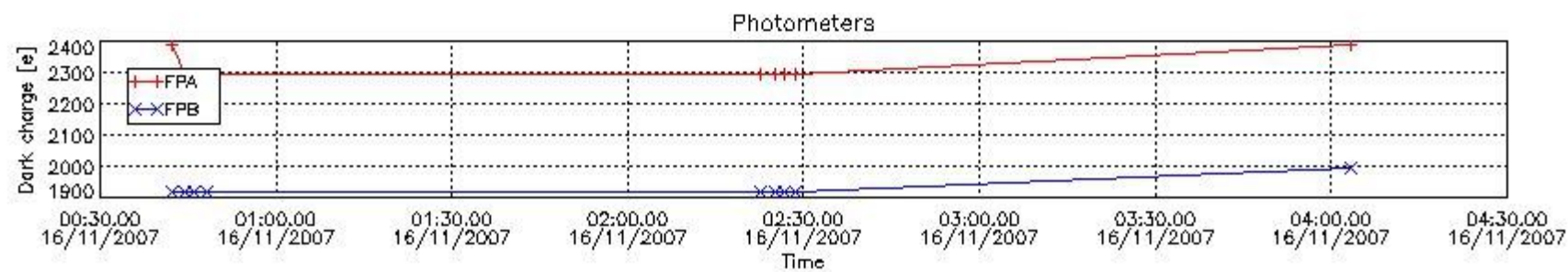
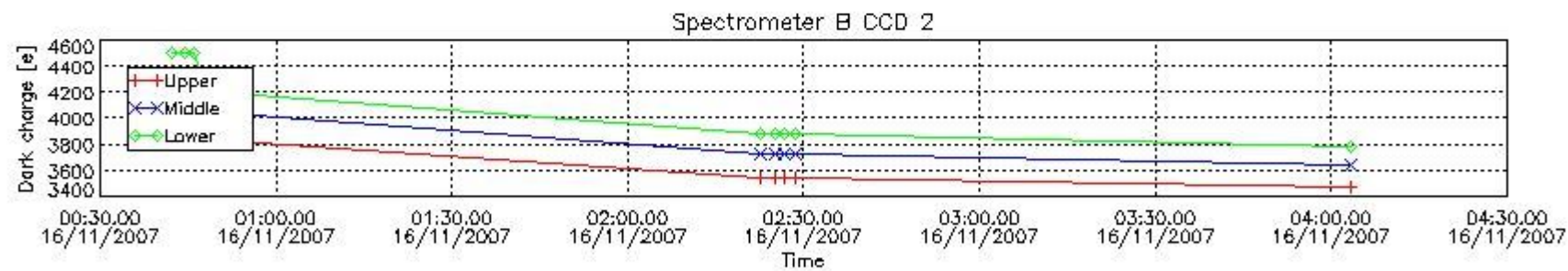
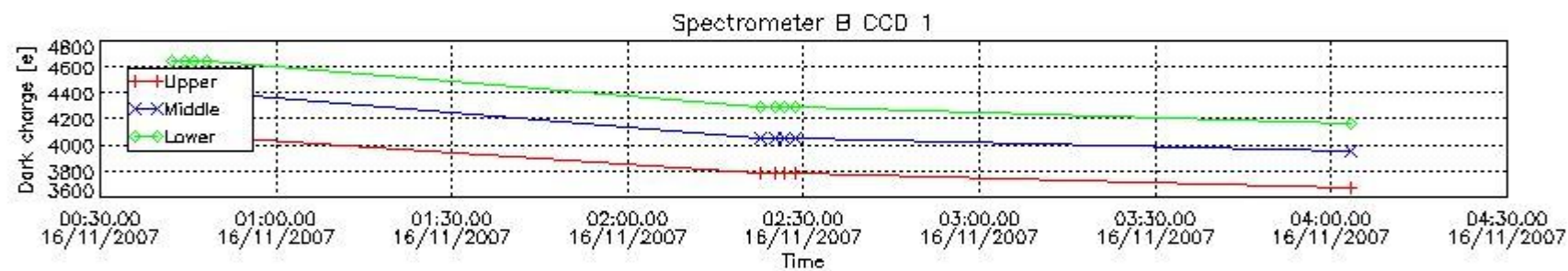
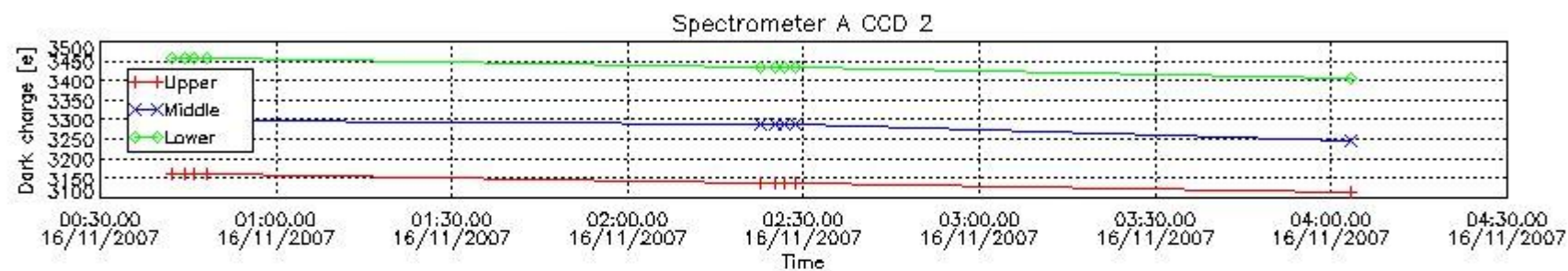
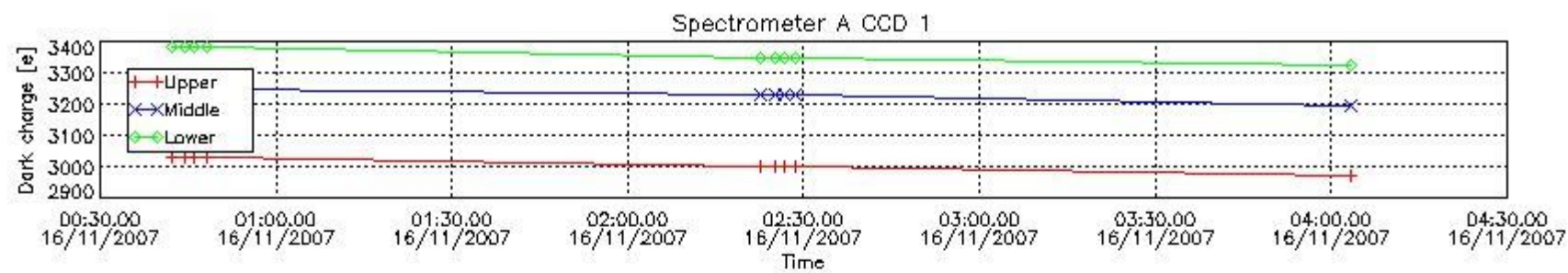
4. Overview of dark signal processing per product

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



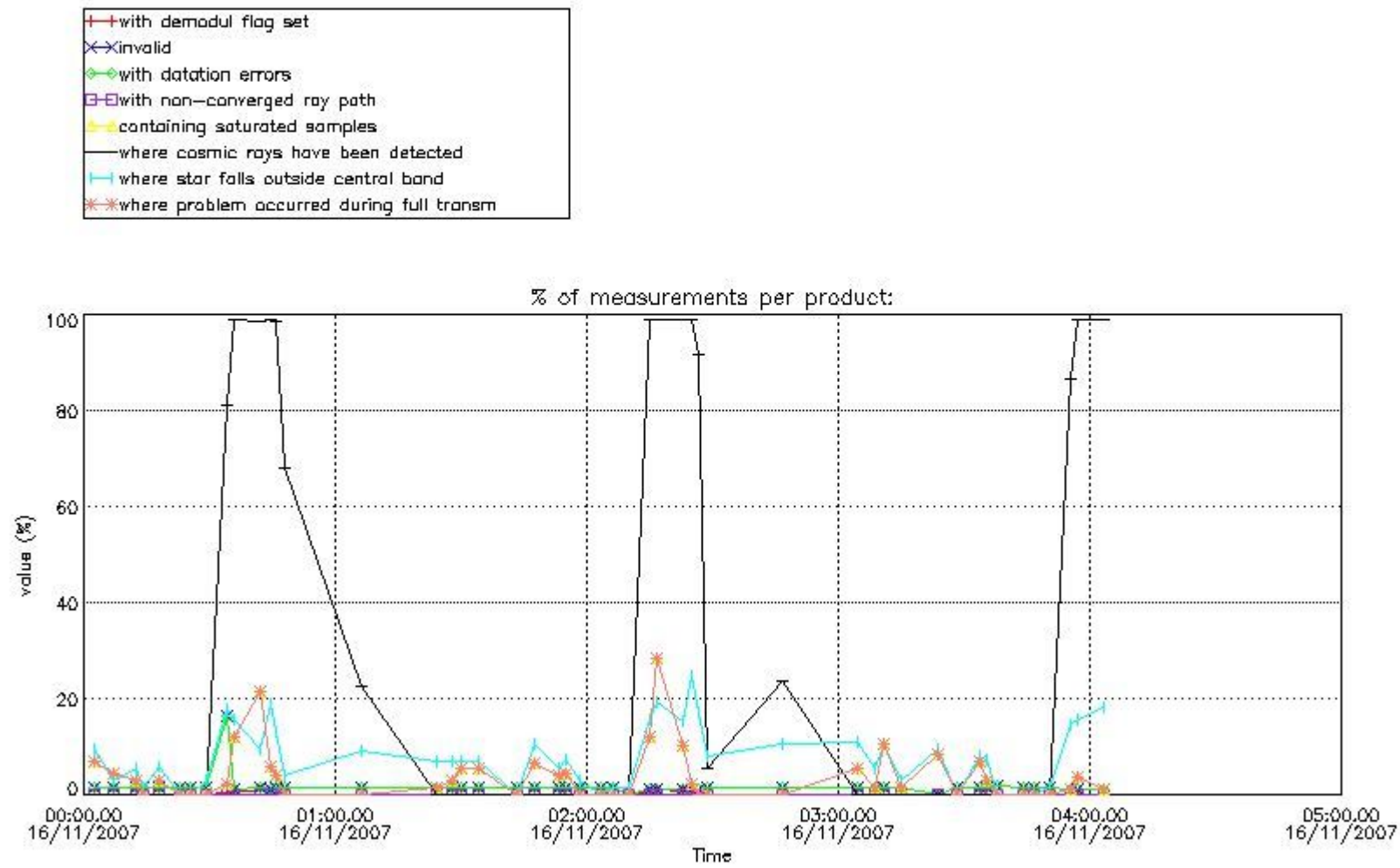
5. Demodulation flag and quality information monitoring

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.

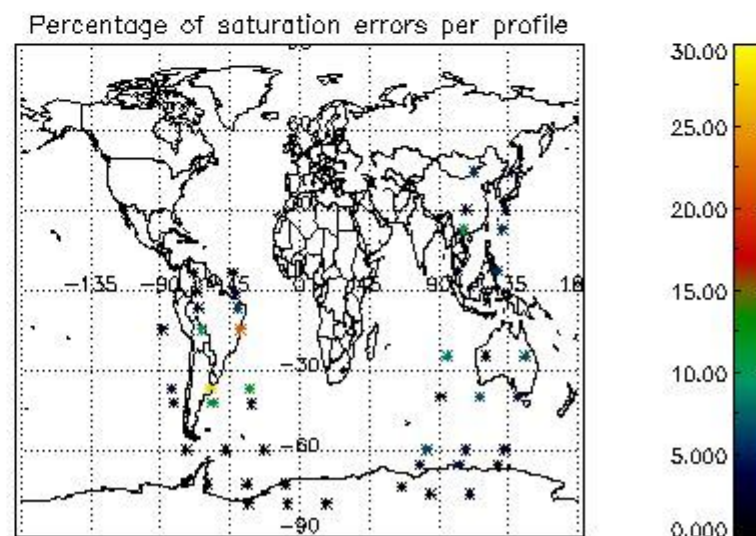
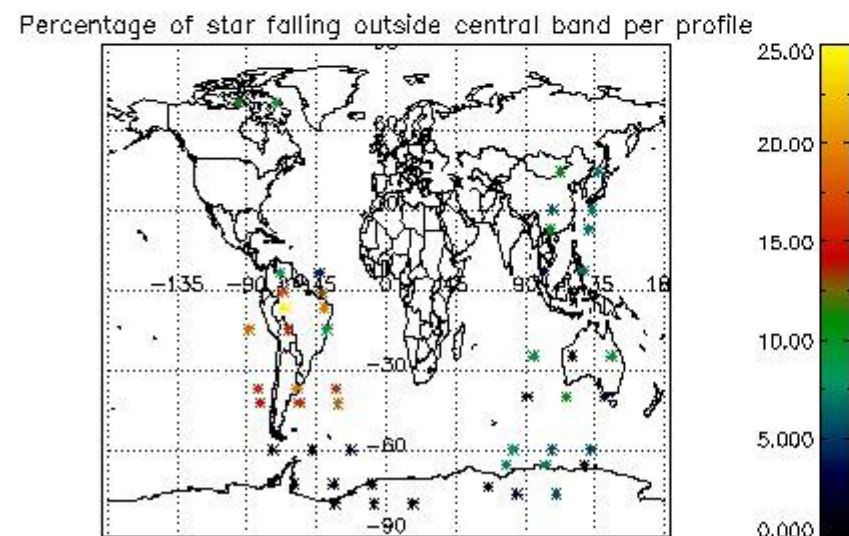
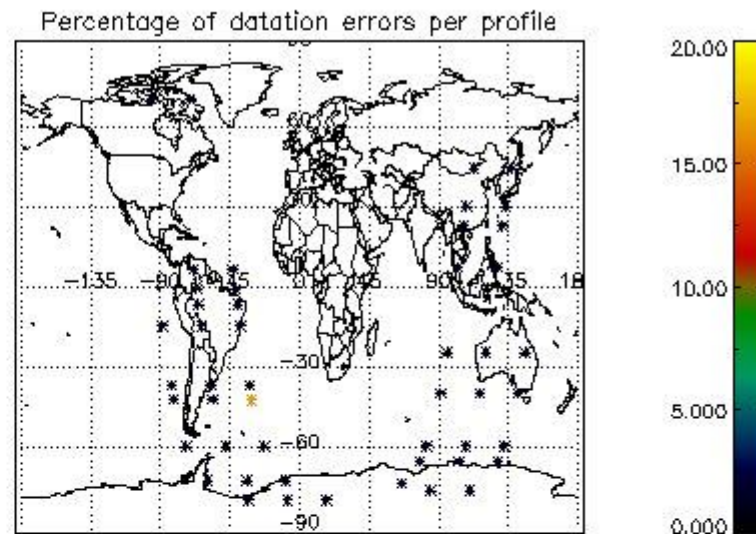
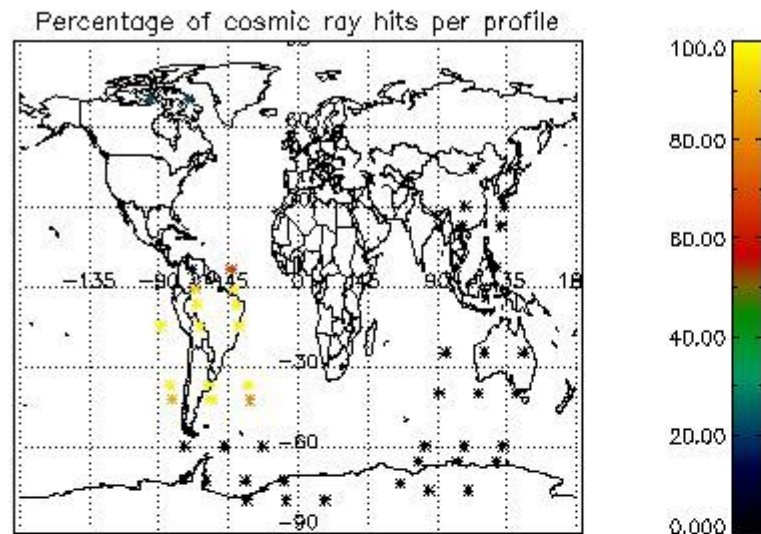
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	28.5714 %
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)



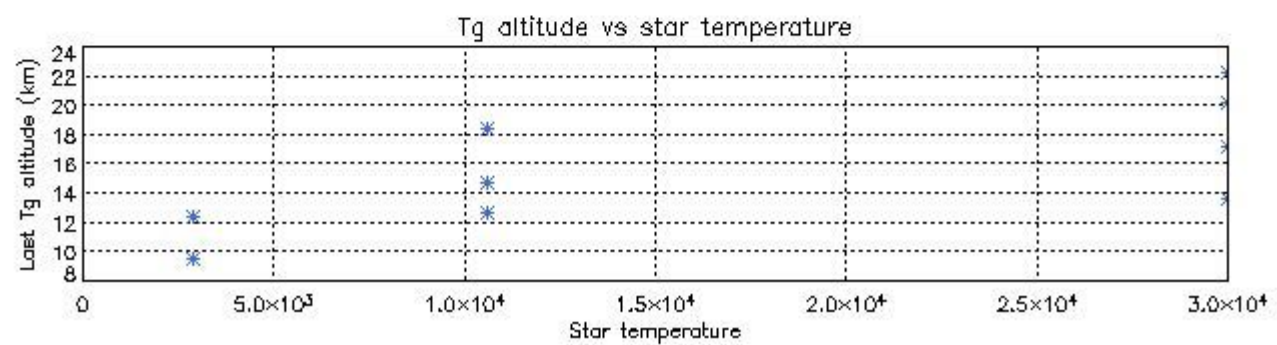
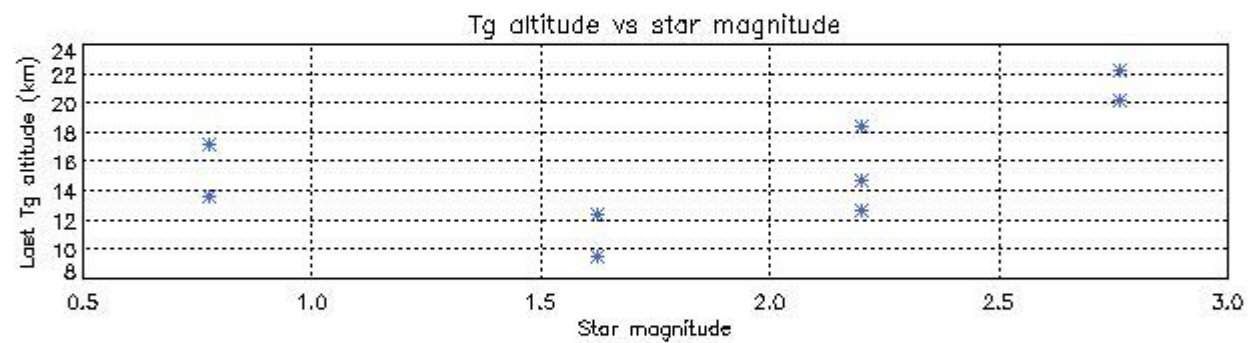
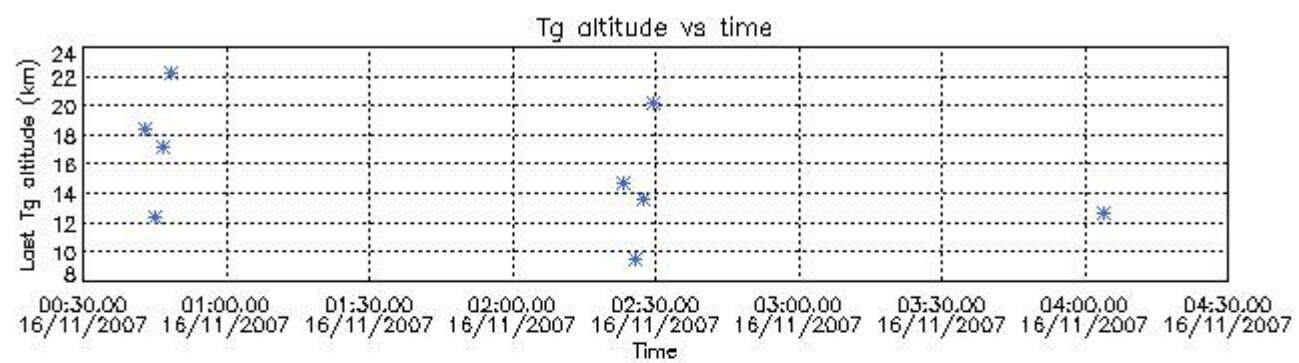
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.646	23.540	13.765
St. deviation:	4.1092	4.5901	1.4717
Maximum:	22.188	42.000	14.633
Minimum:	9.5645	16.748	12.066
Number of data:	9.0000	32.000	3.0000

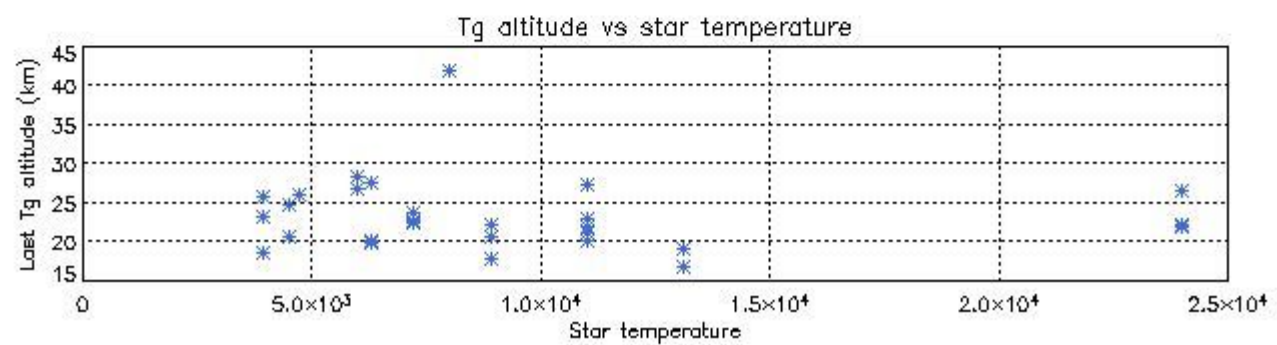
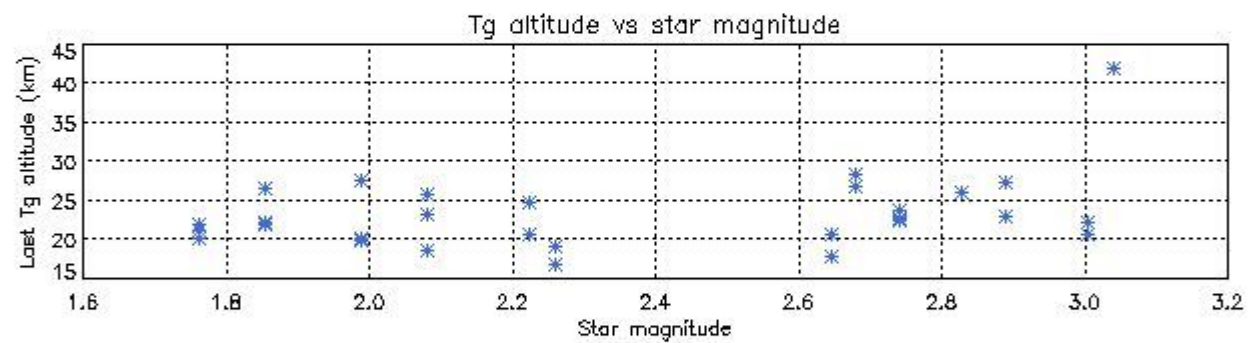
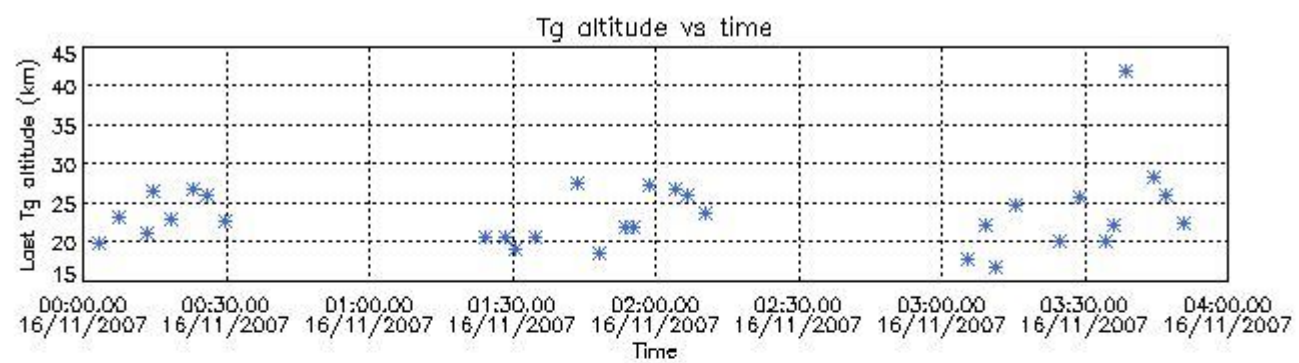
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



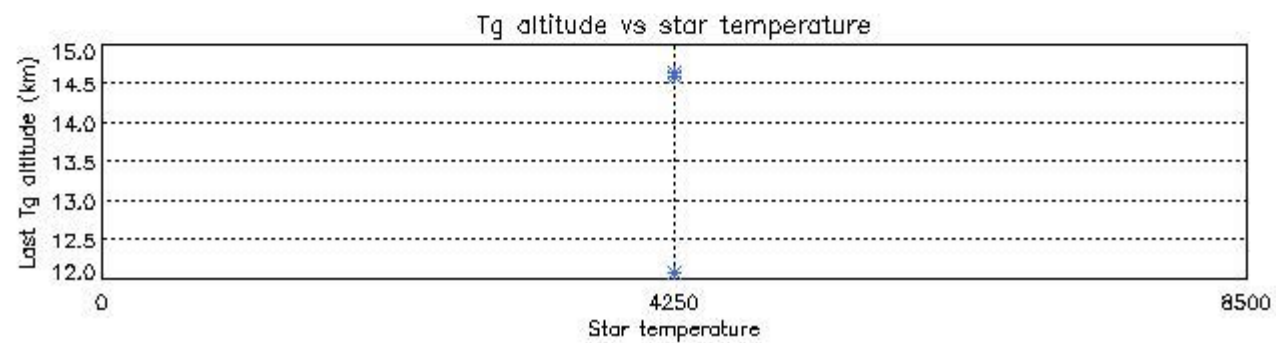
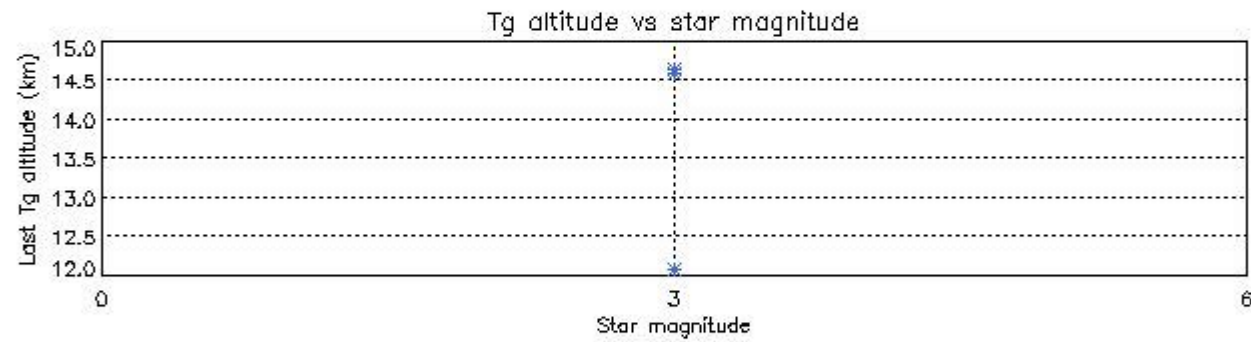
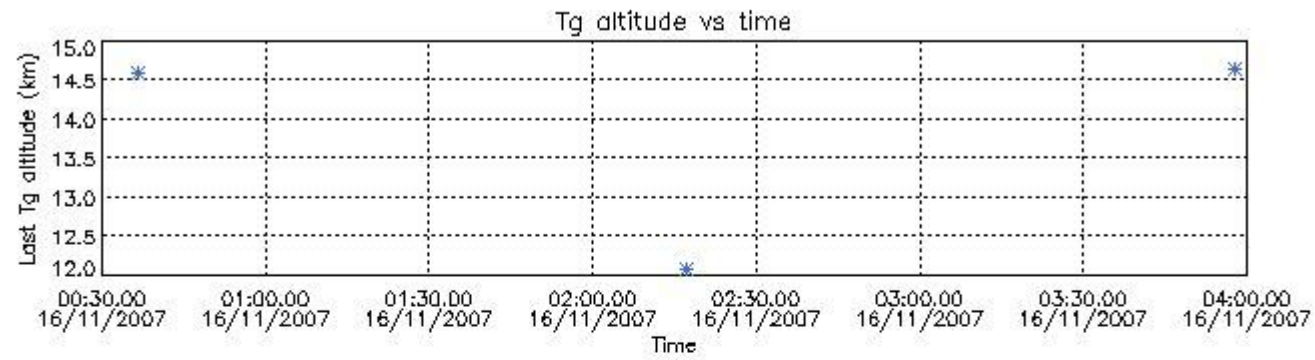
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

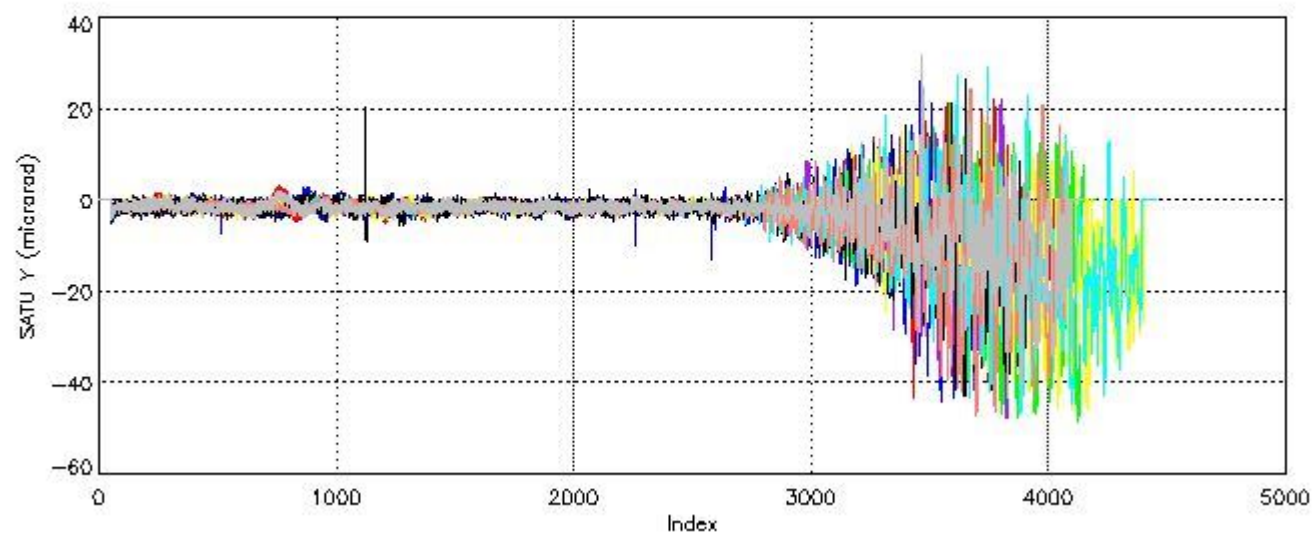
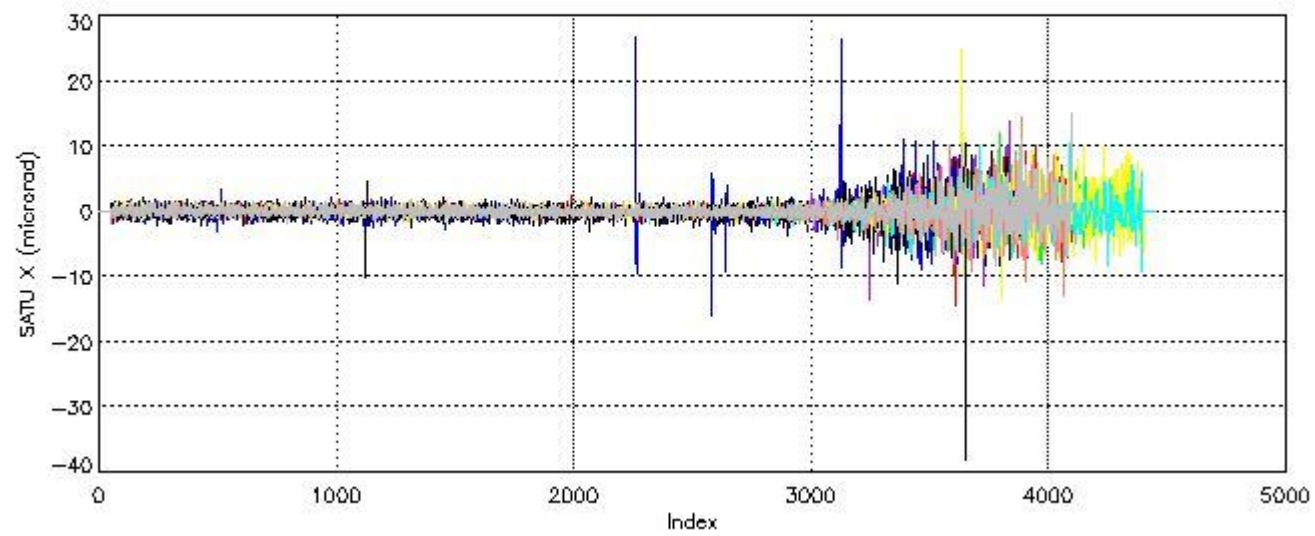


7. Star Acquisition and Tracking Unit (SATU)

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:	-0.12610	-1.4239	-0.046730	-1.2914
St. deviation:	0.58925	1.0922	0.83392	1.3463
Maximum:	4.0000	8.0000	6.4000	5.4000
Minimum:	-4.7000	-7.3000	-6.0000	-7.8000

Number of data:	7700.0	7700.0	26550.	26550.
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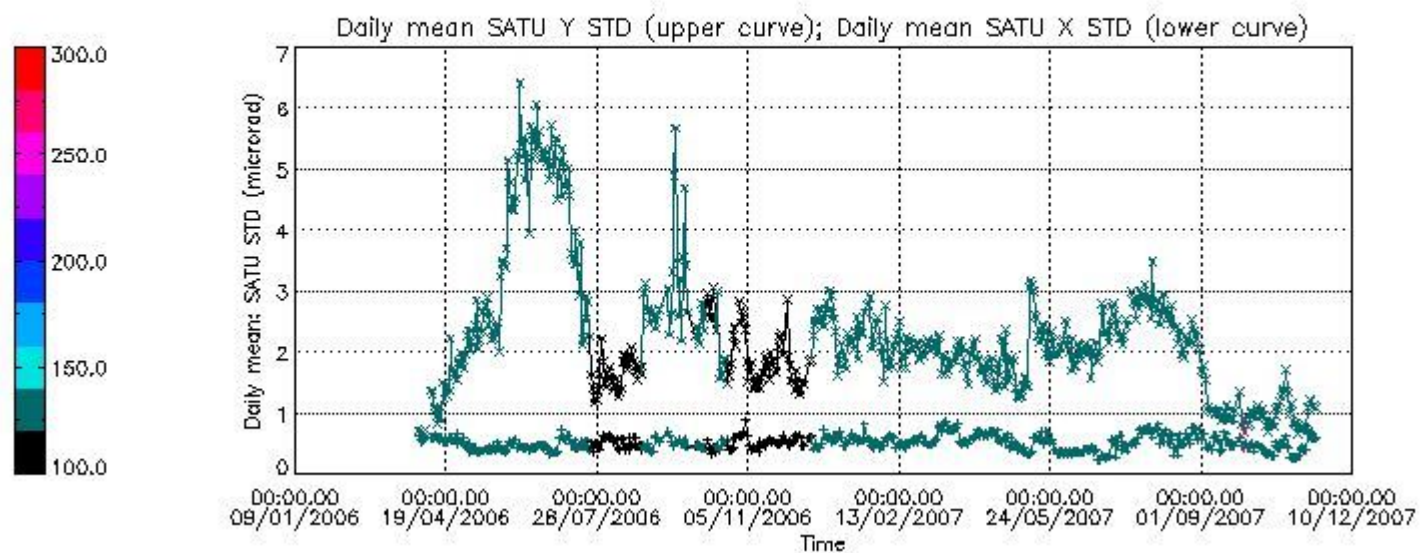
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

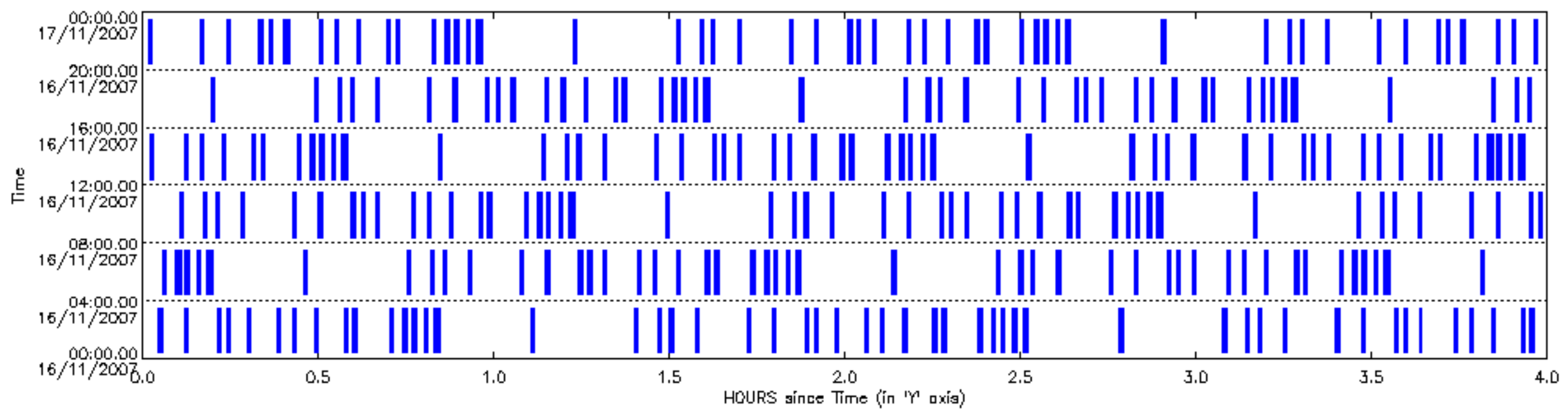
Lower curve: STD of SATU X axis

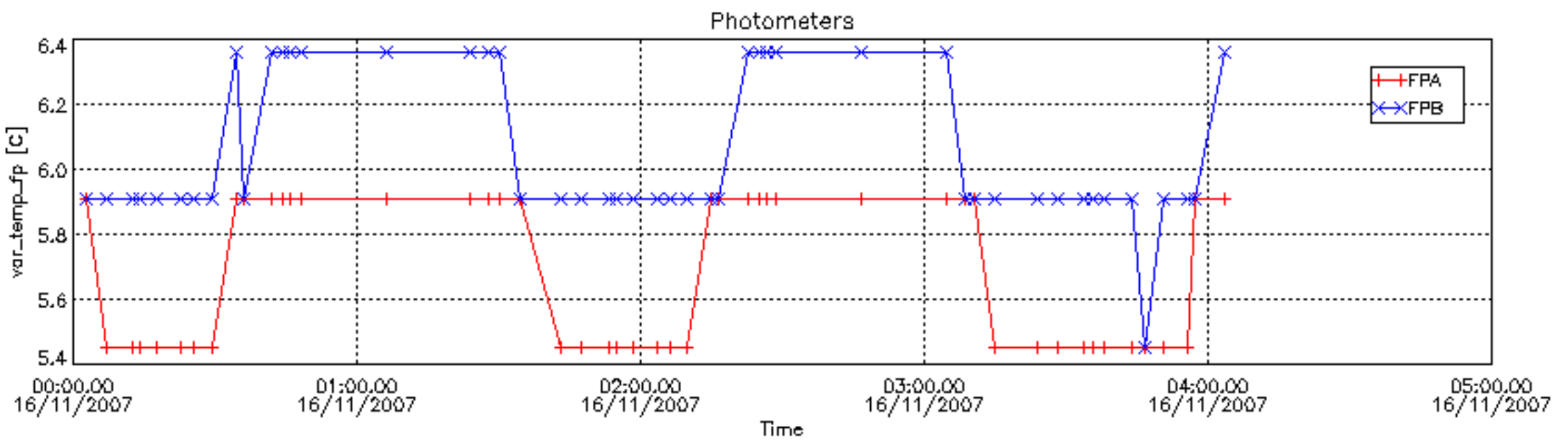
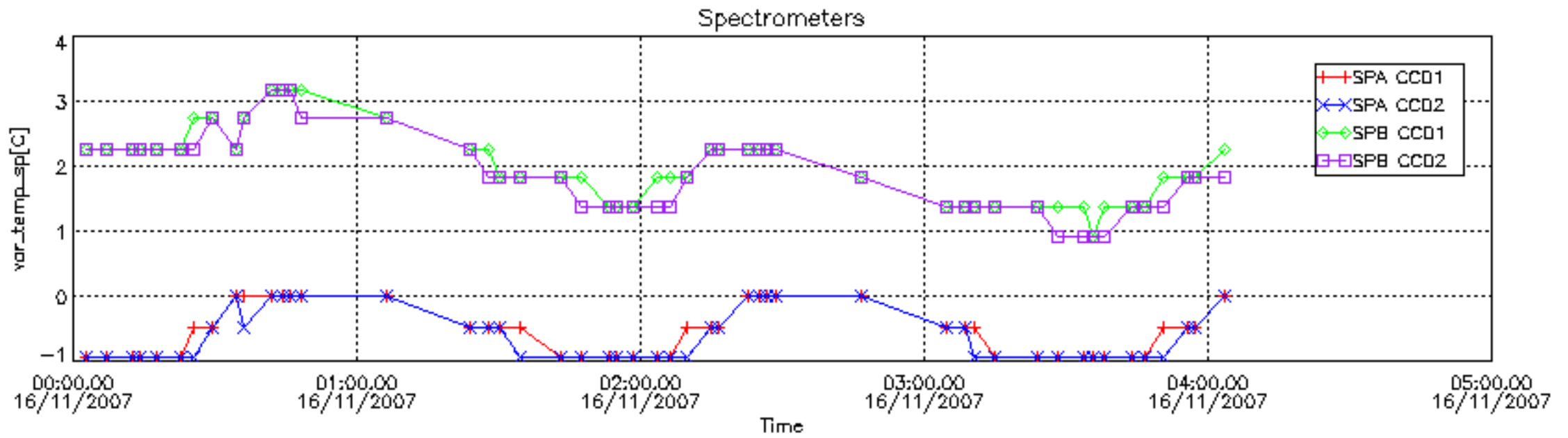


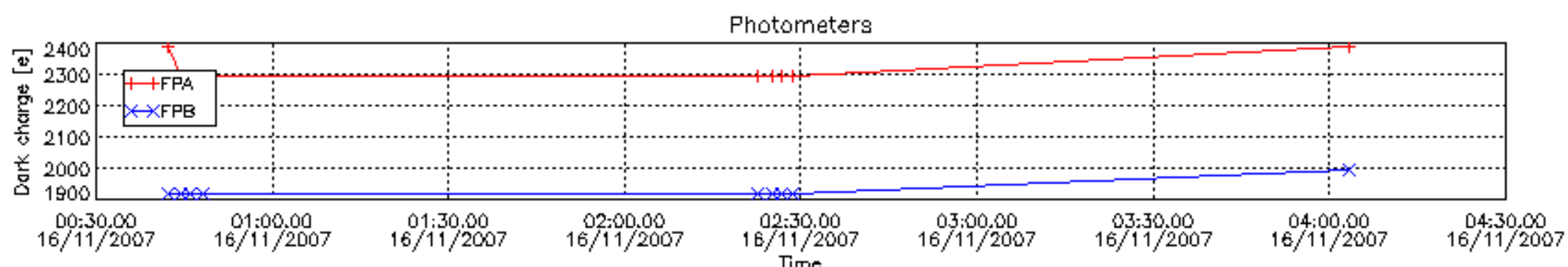
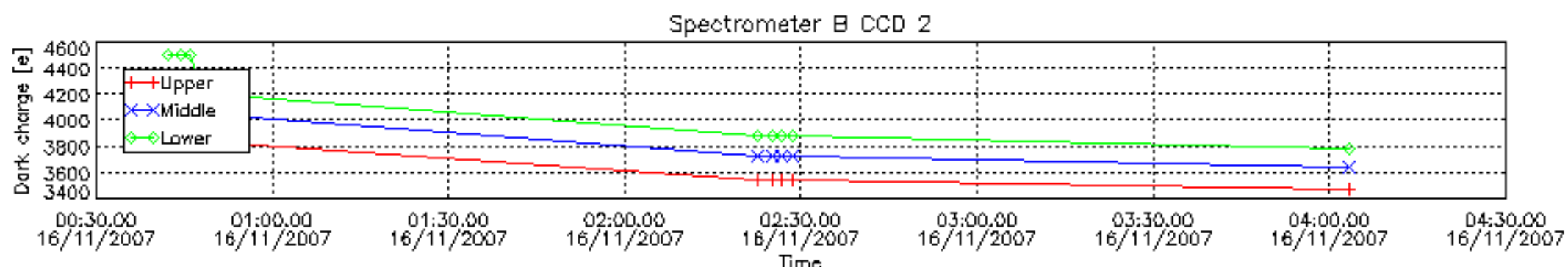
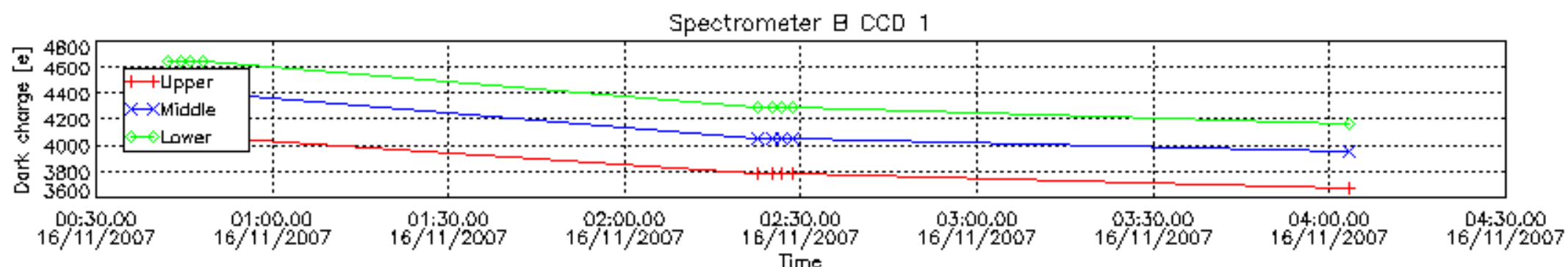
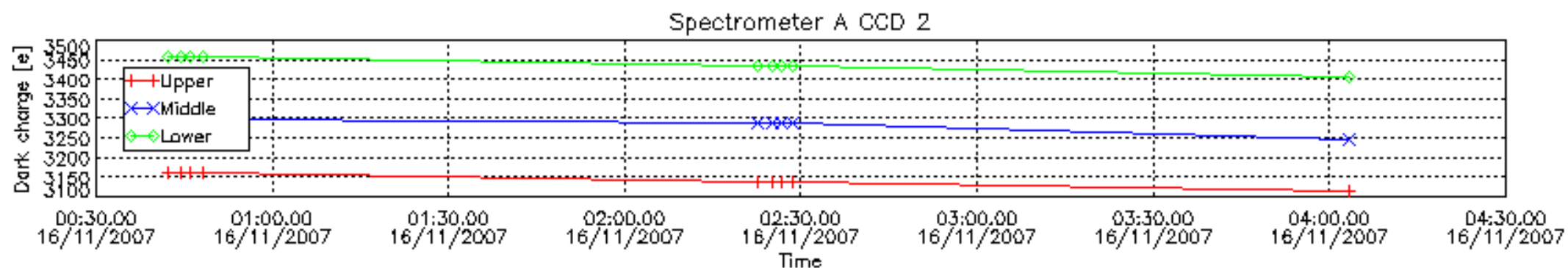
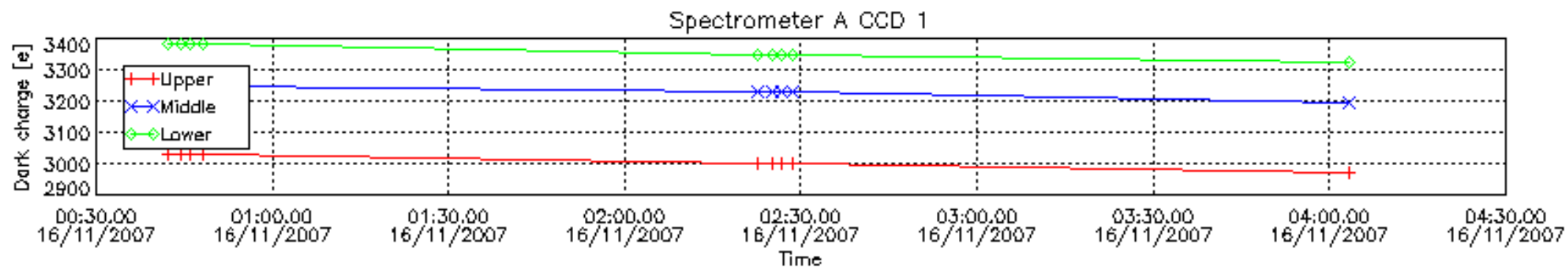
8. Auxiliary Data Files used for the production reported in section 2.4

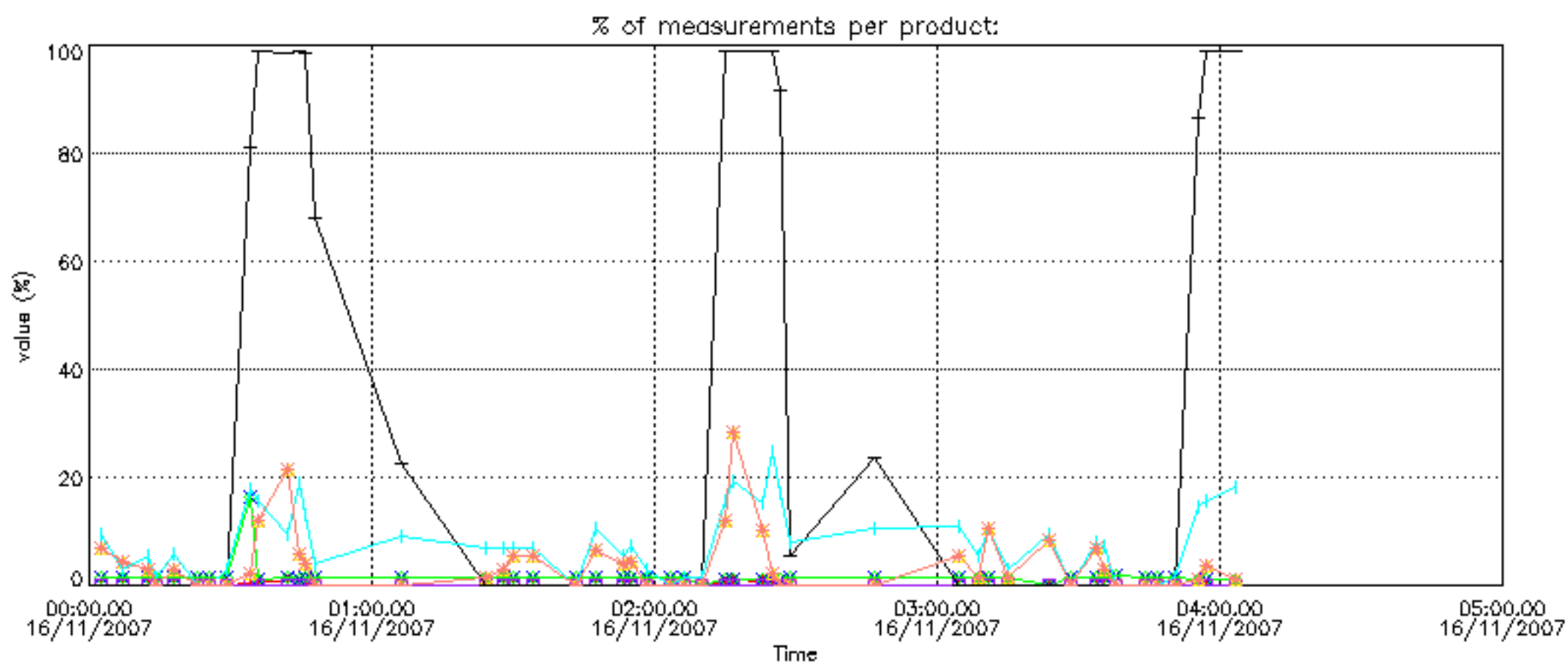
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	16-NOV-2007 00:02:40
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071114_162731_20071113_000000_20100101_000000	1	16-NOV-2007 00:02:40
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	16-NOV-2007 00:02:40
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	16-NOV-2007 00:02:40
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	16-NOV-2007 00:02:40
ECMWF_FILE	AUX_ECF_AXNECM20071115_063112_20071115_210000_20071116_090000	1	16-NOV-2007 00:02:40
ECMWF_FILE	AUX_ECF_AXNECM20071115_182609_20071116_030000_20071116_150000	40	16-NOV-2007 03:28:13
OPTIONAL_ECMWF_FILE	MISSING	1	16-NOV-2007 00:02:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071115_210403_000060572063_00243_29856_4568.N1	1	16-NOV-2007 00:02:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071115_225019_000057382063_00244_29857_4569.N1	9	16-NOV-2007 00:34:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071116_003116_000054192063_00245_29858_4570.N1	28	16-NOV-2007 02:14:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071116_020654_000041442063_00246_29859_4571.N1	40	16-NOV-2007 03:28:13

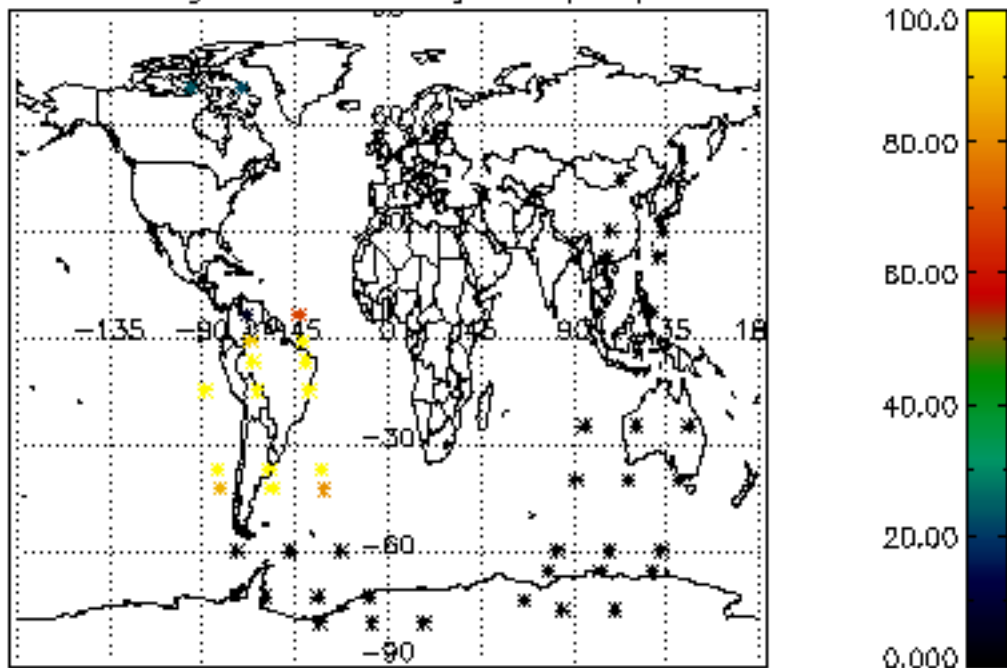




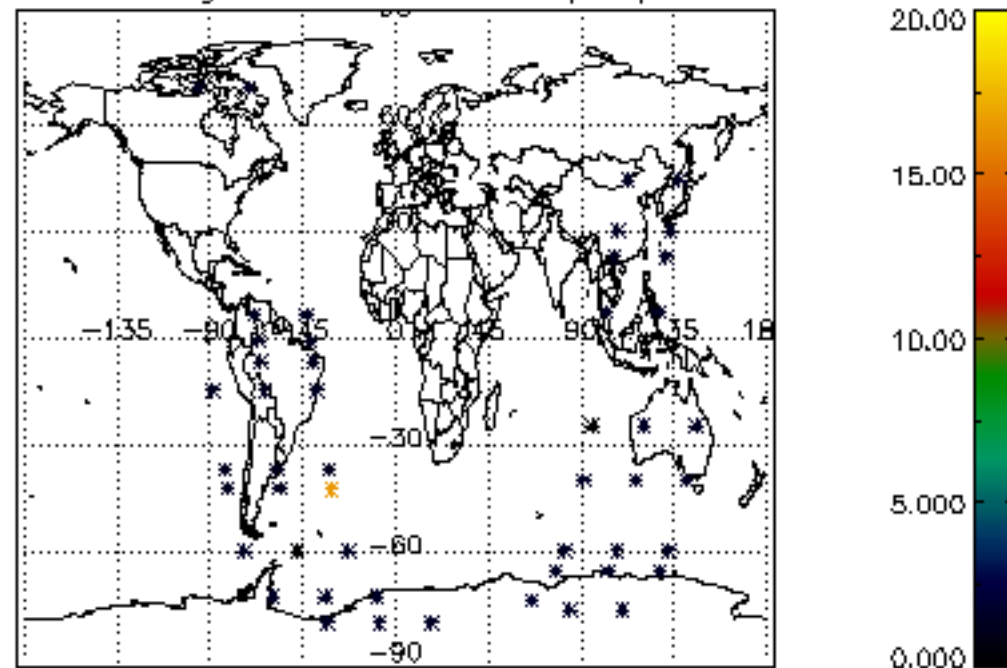




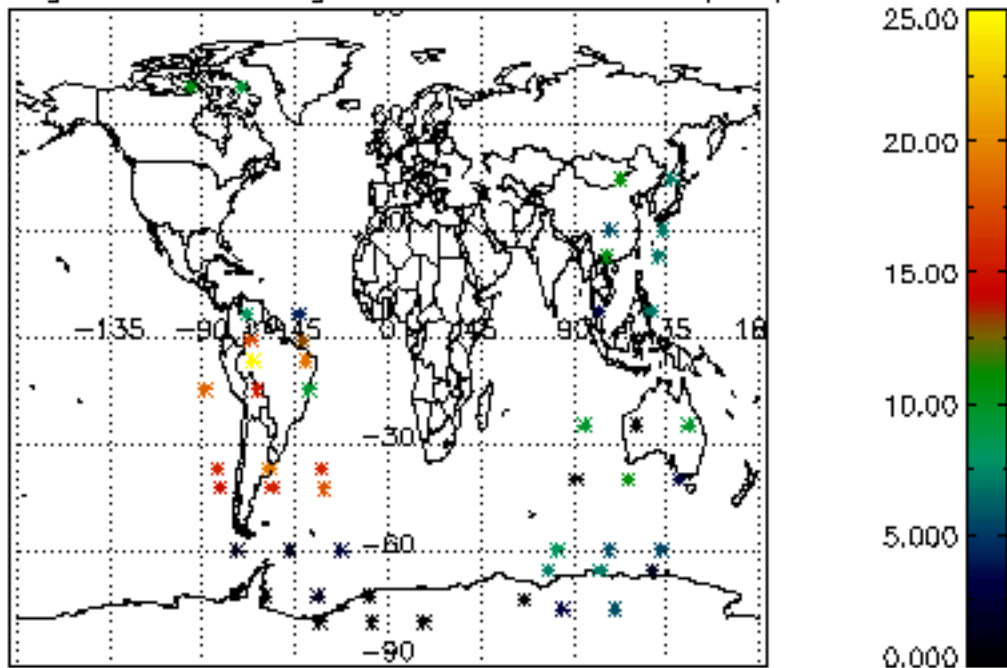
Percentage of cosmic ray hits per profile



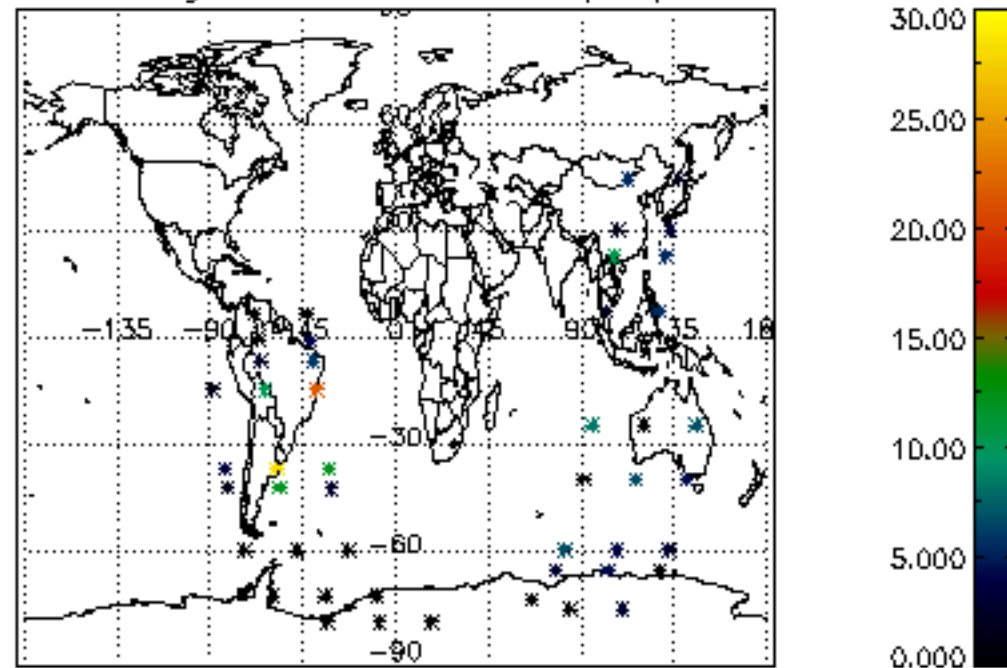
Percentage of datation errors per profile



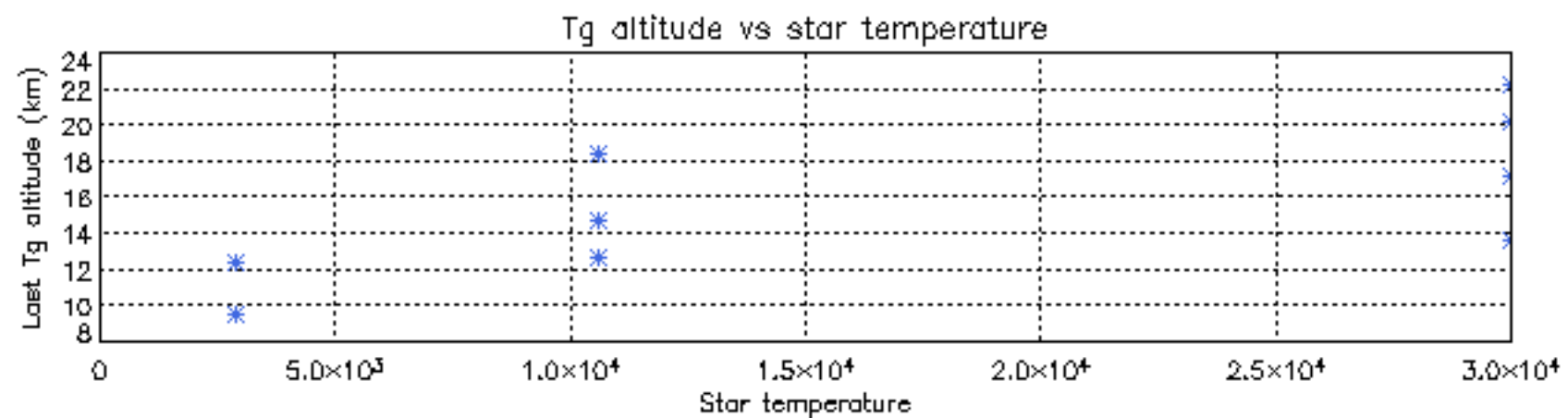
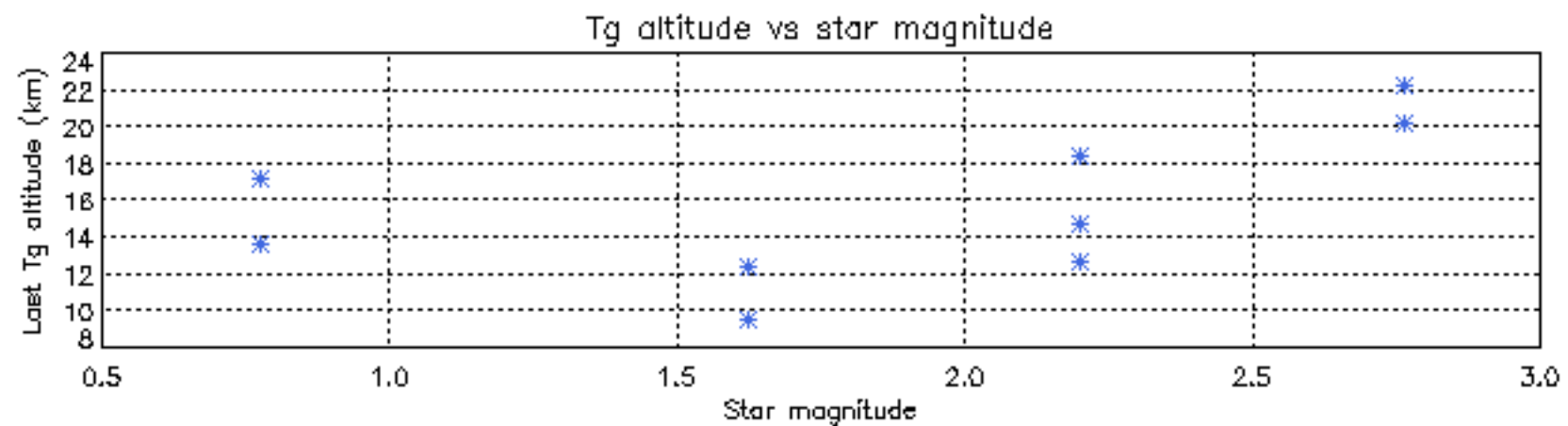
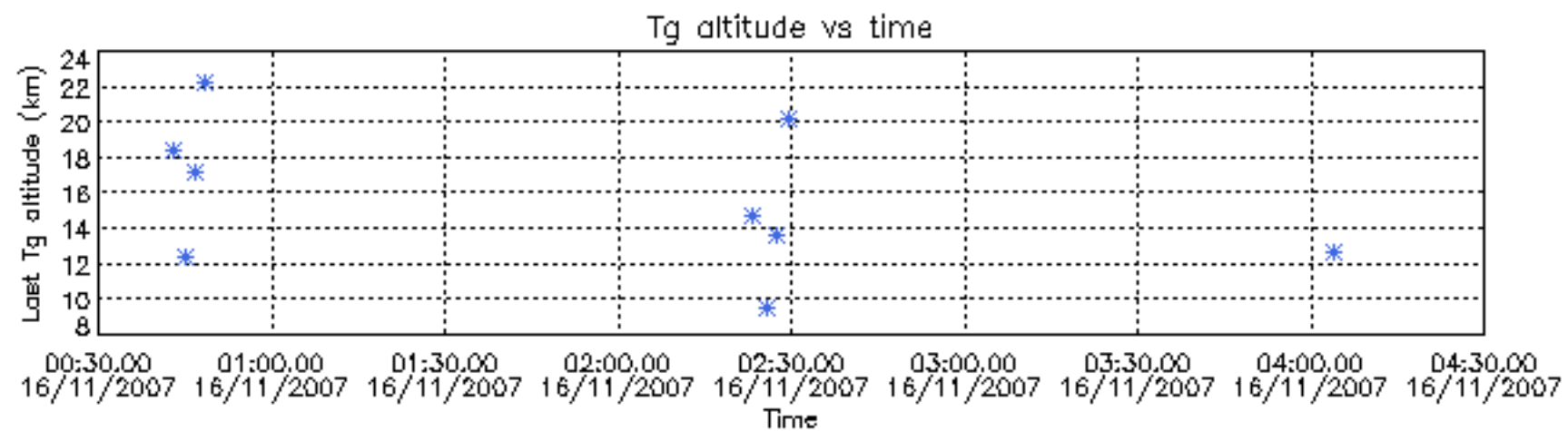
Percentage of star falling outside central band per profile



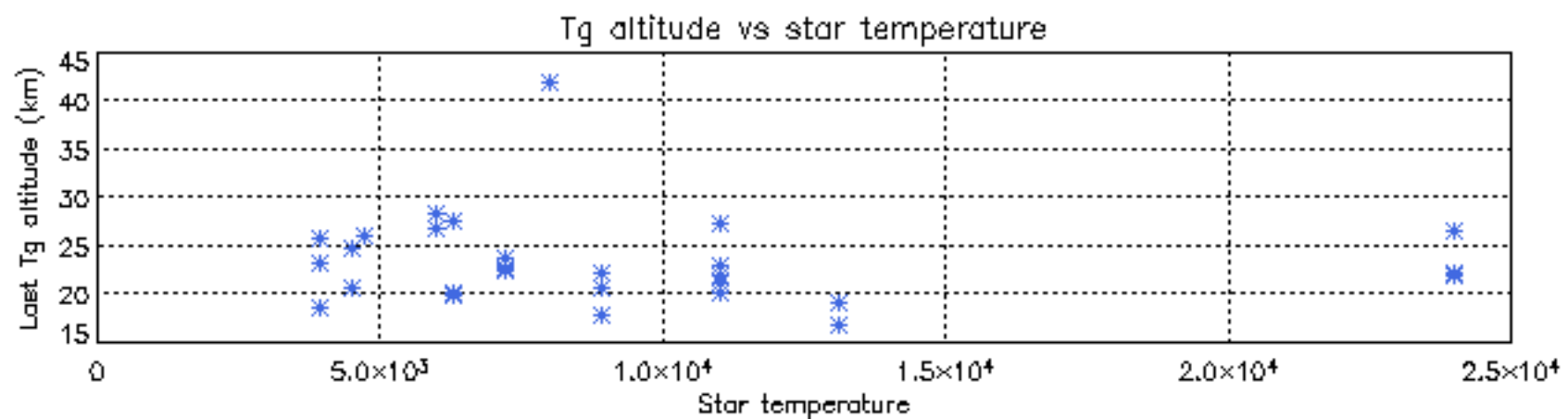
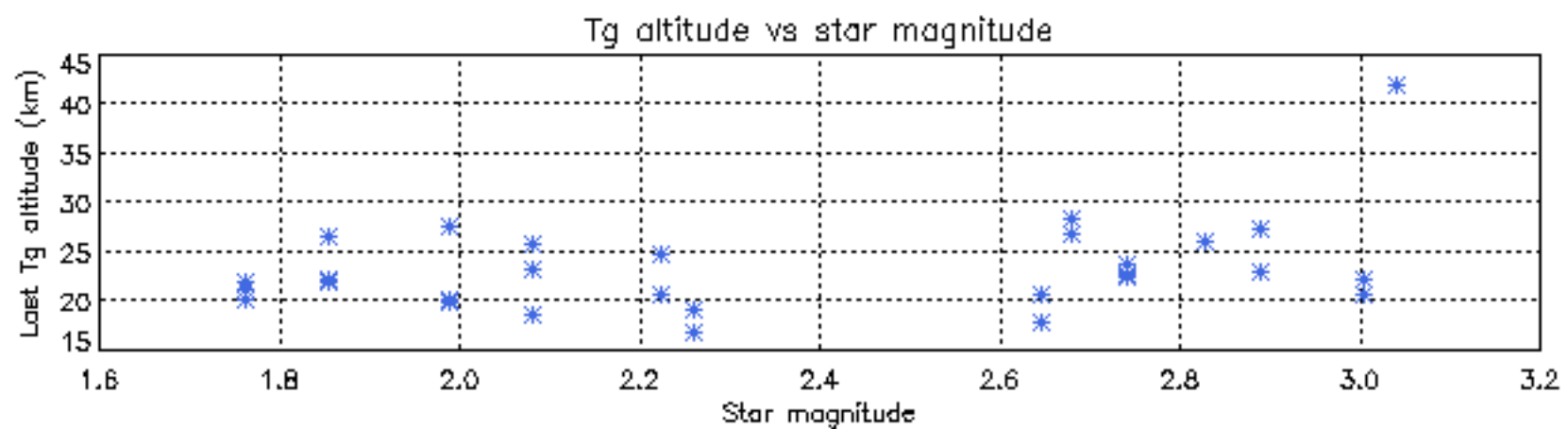
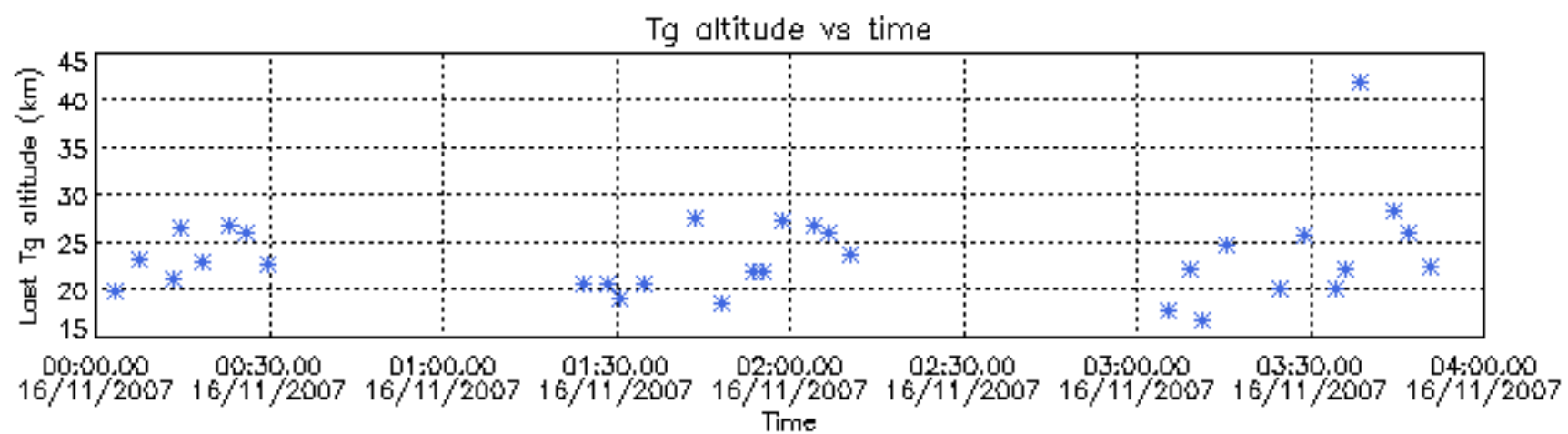
Percentage of saturation errors per profile



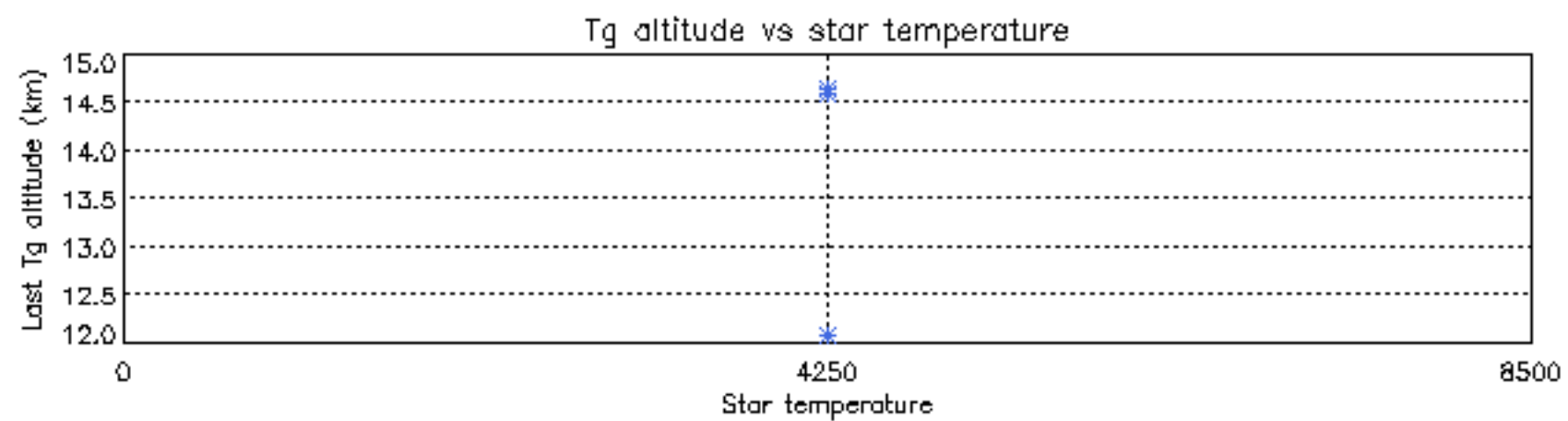
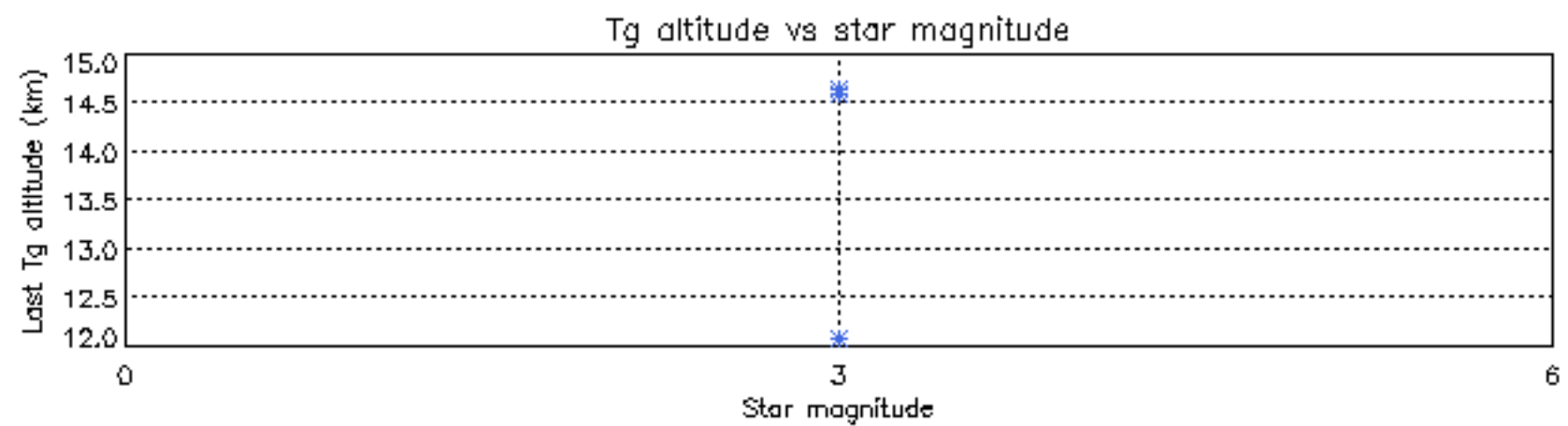
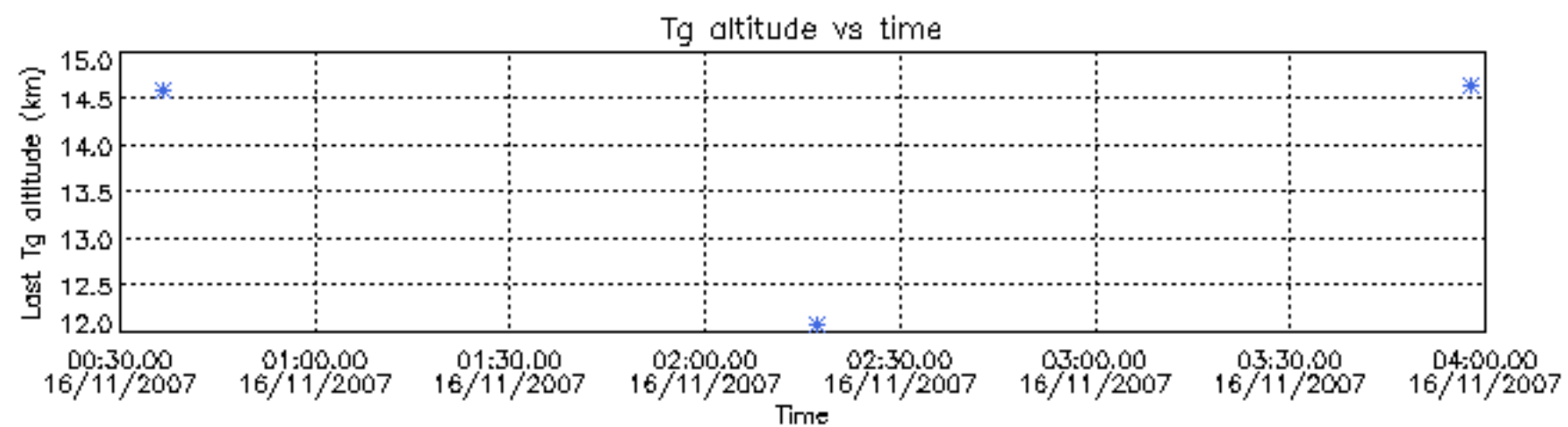
Tangent altitude at which the star is lost

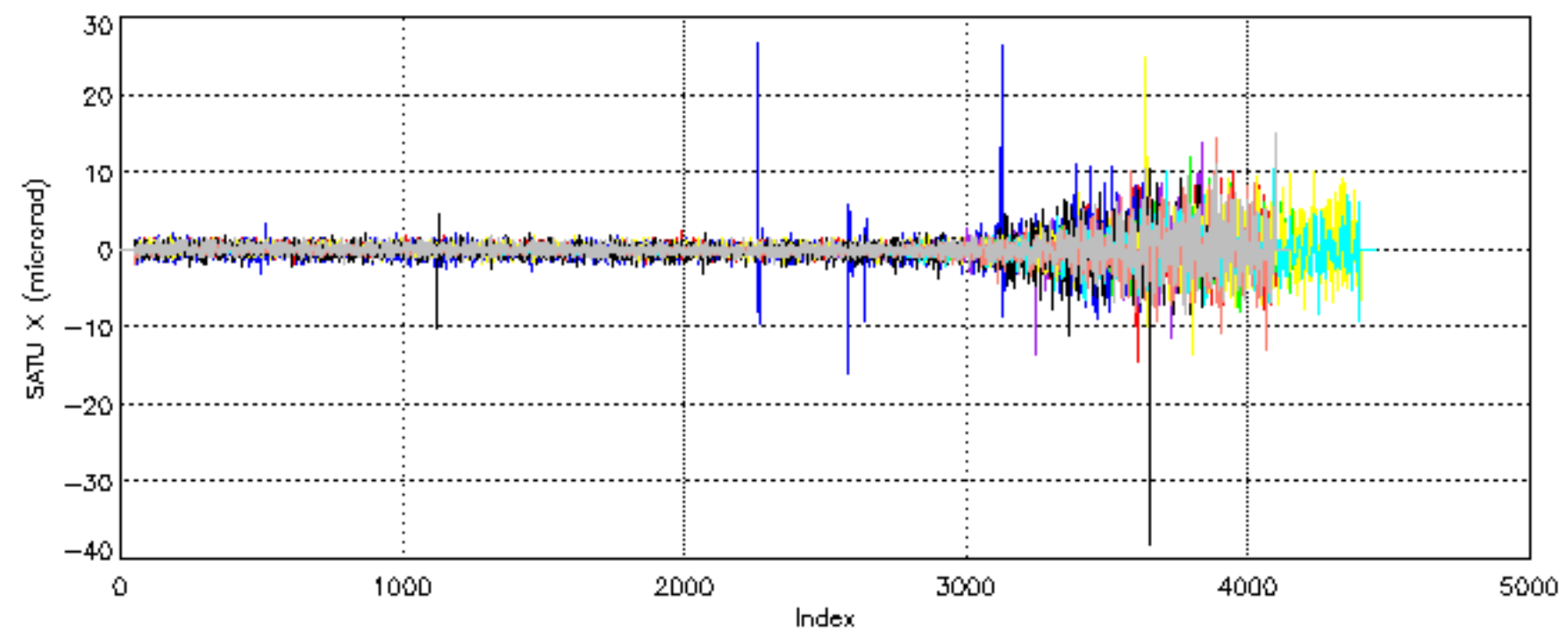


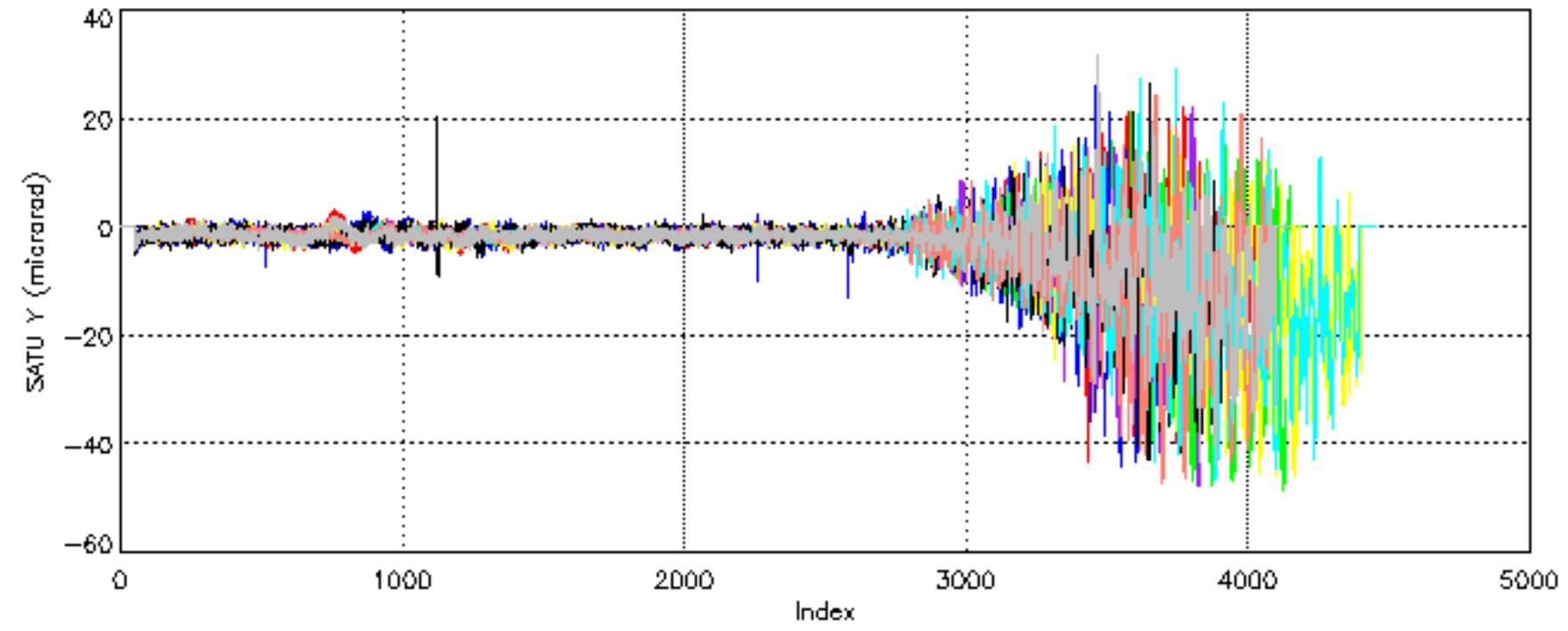
Tangent altitude at which the star is lost

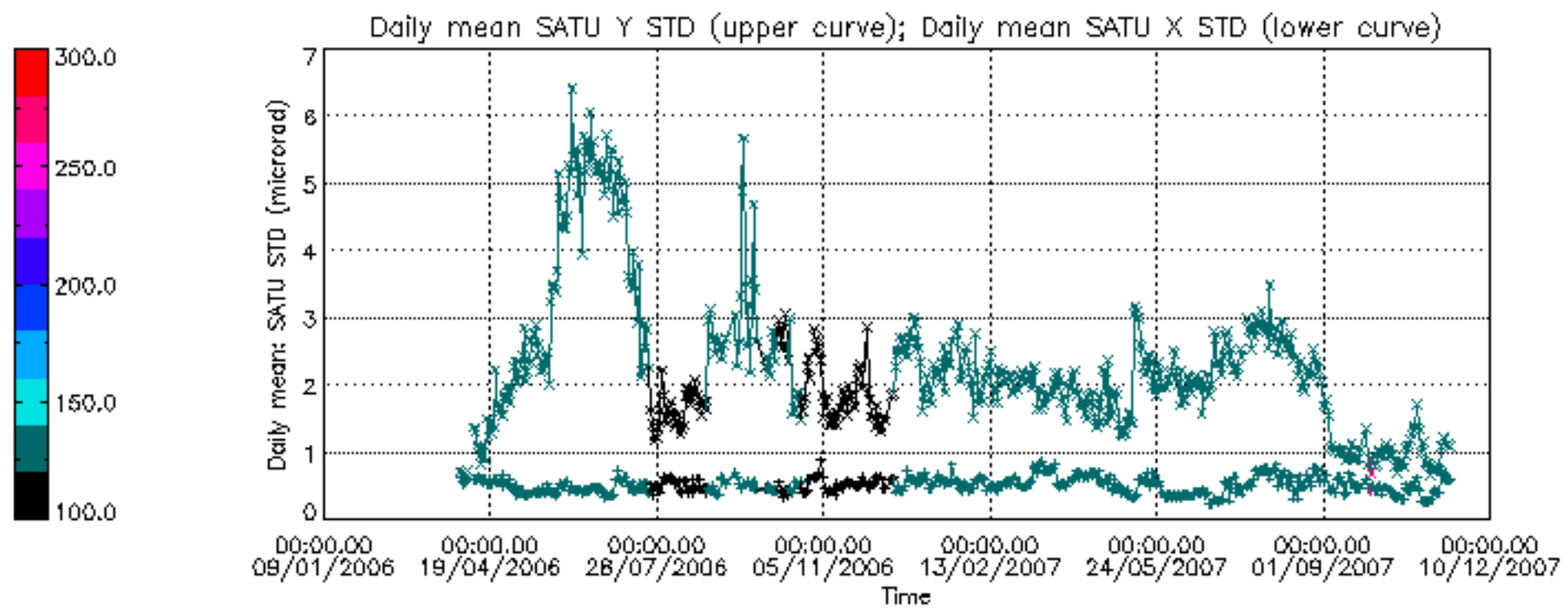


Tangent altitude at which the star is lost









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 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
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 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
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 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
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 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
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 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
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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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7; 3423.7; 01-NOV-2007 21:21:45; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;29656
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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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6; 134.0; 01-NOV-2007 07:02:08; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 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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22; 4138.6; 30-NOV-2007 23:02:42; Bright; 37.0; 39; 85Eta UMa ; 1.85; 24000;occ; 74; 0;30072
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