

GOMOS Daily Report 30-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	02DEC2007 05:45:29
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (30NOV2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (01DEC2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	48
Nb of prods with errors	2

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

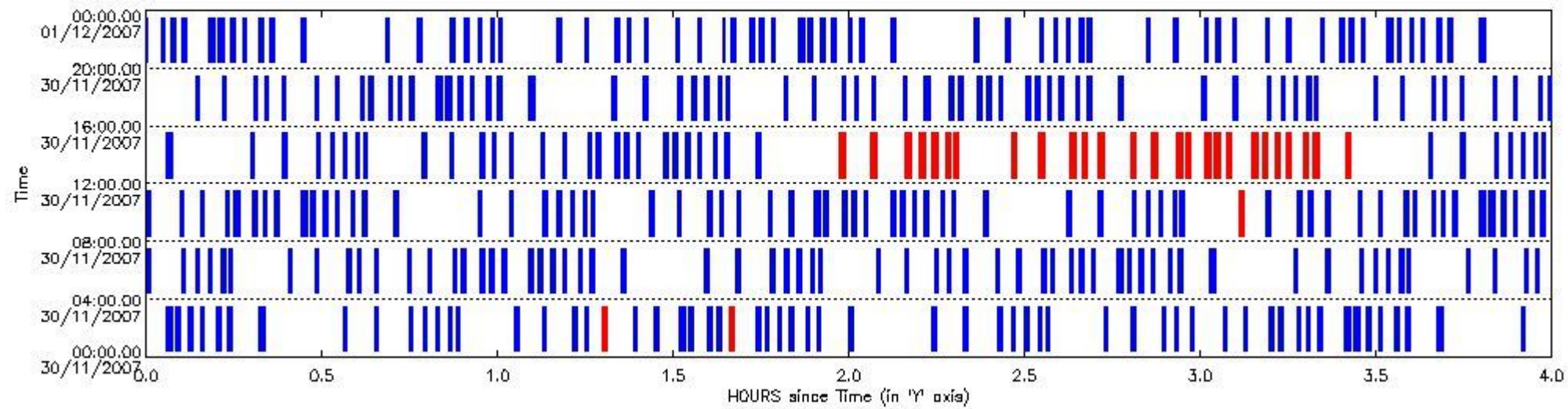
2.1 Level 0 products arrived in PCF (see template [here](#))

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
30-NOV-2007 01:17:47	27GamBoo	180	30059
30-NOV-2007 01:39:32	1otCen	123	30059
30-NOV-2007 11:06:35	1AlpUMi	49	30065
30-NOV-2007 13:58:23	34GamEri	165	30067
30-NOV-2007 14:03:44	92AlpCet	94	30067
30-NOV-2007 14:09:36	25EtaTau	146	30067
30-NOV-2007 14:11:59	44ZetPer	150	30067
30-NOV-2007 14:14:11	26BetPer	79	30067
30-NOV-2007 14:16:25	39DelPer	175	30067
30-NOV-2007 14:17:44	23GamPer	160	30067
30-NOV-2007 14:27:46	1AlpUMi	49	30067
30-NOV-2007 14:32:26	7BetUMi	60	30067
30-NOV-2007 14:37:41	77EpsUMa	32	30067
30-NOV-2007 14:39:43	85EtaUMa	39	30067
30-NOV-2007 14:42:36	27GamBoo	180	30067

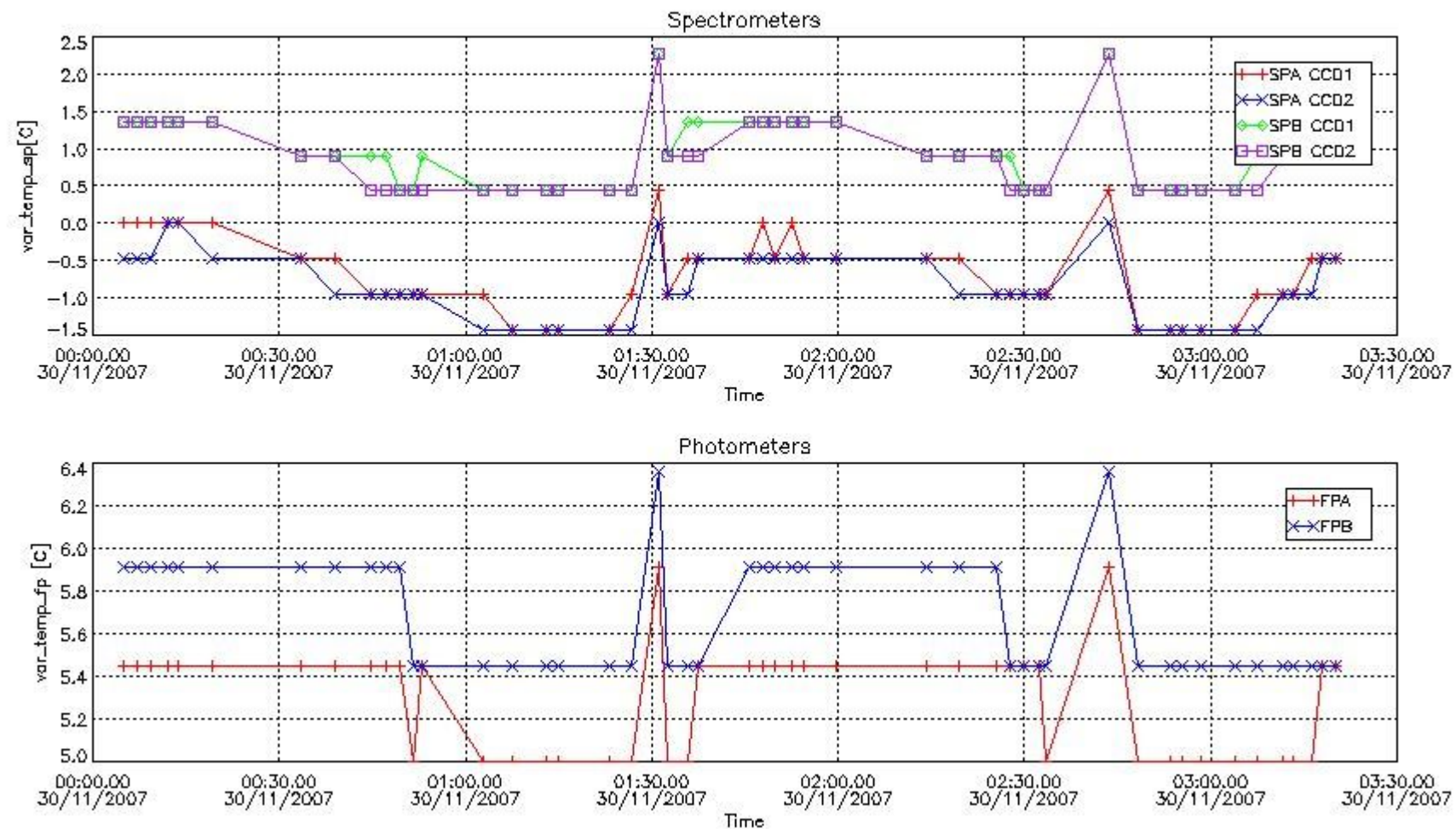
30-NOV-2007 14:48:08	16AlpBoo	3	30067
30-NOV-2007 14:51:40	47EpsVir	138	30067
30-NOV-2007 14:55:58	29GamVir	121	30067
30-NOV-2007 14:57:27	67AlpVir	15	30067
30-NOV-2007 15:00:41	7DelCrv	163	30067
30-NOV-2007 15:02:19	9BetCrv	106	30067
30-NOV-2007 15:04:22	lotCen	123	30067
30-NOV-2007 15:08:52	DSA1053	0	30067
30-NOV-2007 15:10:32	GamCru	26	30067
30-NOV-2007 15:12:39	MuVel	113	30068
30-NOV-2007 15:14:40	TheCar	124	30068
30-NOV-2007 15:17:28	BetCar	29	30068
30-NOV-2007 15:19:18	EpsCar	41	30068
30-NOV-2007 15:24:41	AlpCar	2	30068

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_1PNPDE20071130_000504_000000432063_00445_30058_7488.N1	30-NOV-2007 00:05:04	Dark	42.500	26	Gam Cru	1.6240	2900.0	85	30058	No
2	GOM_TRA_1PNPDE20071130_000708_000000442063_00446_30059_7489.N1	30-NOV-2007 00:07:08	Dark	43.500	113	Mu Vel	2.6920	5000.0	87	30059	No
3	GOM_TRA_1PNPDE20071130_000912_000000382063_00446_30059_7490.N1	30-NOV-2007 00:09:12	Dark	38.000	124	The Car	2.7640	30000.	76	30059	No
4	GOM_TRA_1PNPDE20071130_001200_000000392063_00446_30059_7491.N1	30-NOV-2007 00:12:00	Dark	38.500	29	Bet Car	1.6720	10200.	77	30059	No
5	GOM_TRA_1PNPDE20071130_001349_000000442063_00446_30059_7492.N1	30-NOV-2007 00:13:49	Dark	44.000	41	Eps Car	1.8600	4100.0	88	30059	No
6	GOM_TRA_1PNPDE20071130_001912_000000582063_00446_30059_7493.N1	30-NOV-2007 00:19:12	Dark	58.000	2	Alp Car	-0.73600	7000.0	116	30059	No
7	GOM_TRA_1PNPDE20071130_003333_000000442063_00446_30059_7494.N1	30-NOV-2007 00:33:33	Straylight	43.500	165	34Gam Eri	2.9500	3200.0	87	30059	No
8	GOM_TRA_1PNPDE20071130_003855_000000432063_00446_30059_7495.N1	30-NOV-2007 00:38:55	Twilight	42.500	94	92Alp Cet	2.5260	3100.0	85	30059	No
9	GOM_TRA_1PNPDE20071130_004449_000000392063_00446_30059_7496.N1	30-NOV-2007 00:44:49	Bright	38.500	146	25Eta Tau	2.8730	15200.	77	30059	No
10	GOM_TRA_1PNPDE20071130_004712_000000402063_00446_30059_7497.N1	30-NOV-2007 00:47:12	Bright	39.500	150	44Zet Per	2.8900	28000.	79	30059	No
11	GOM_TRA_1PNPDE20071130_004923_000000382063_00446_30059_7498.N1	30-NOV-2007 00:49:23	Bright	37.500	79	26Bet Per	2.3100	13100.	75	30059	No
12	GOM_TRA_1PNPDE20071130_005139_000000352063_00446_30059_7499.N1	30-NOV-2007 00:51:39	Bright	35.000	175	39Del Per	3.0100	19400.	70	30059	No
13	GOM_TRA_1PNPDE20071130_005256_000000352063_00446_30059_7500.N1	30-NOV-2007 00:52:56	Bright	35.000	160	23Gam Per	2.9300	4700.0	70	30059	No
14	GOM_TRA_1PNPDE20071130_010258_000000362063_00446_30059_7501.N1	30-NOV-2007 01:02:58	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	30059	No
15	GOM_TRA_1PNPDE20071130_010737_000000382063_00446_30059_7502.N1	30-NOV-2007 01:07:37	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	30059	No
16	GOM_TRA_1PNPDE20071130_011253_000000392063_00446_30059_7503.N1	30-NOV-2007 01:12:53	Bright	39.000	32	77Eps UMa	1.7630	11000.	78	30059	No
17	GOM_TRA_1PNPDE20071130_011454_000000352063_00446_30059_7504.N1	30-NOV-2007 01:14:54	Bright	35.000	39	85Eta UMa	1.8540	24000.	70	30059	No
18	GOM_TRA_1PNPDE20071130_012318_000000342063_00446_30059_7505.N1	30-NOV-2007 01:23:18	Bright	33.500	3	16Alp Boo	-0.050000	4250.0	67	30059	No
19	GOM_TRA_1PNPDE20071130_012649_000000392063_00446_30059_7506.N1	30-NOV-2007 01:26:49	Bright	38.500	138	47Eps Vir	2.8280	4700.0	77	30059	No
20	GOM_TRA_1PNPDE20071130_013105_000000602063_00446_30059_7638.N1	30-NOV-2007 01:31:05	Bright	60.000	121	29Gam Vir	2.7400	7200.0	120	30059	Yes
21	GOM_TRA_1PNPDE20071130_013235_000000402063_00446_30059_7639.N1	30-NOV-2007 01:32:35	Bright	40.000	15	67Alp Vir	0.97600	28000.	80	30059	No
22	GOM_TRA_1PNPDE20071130_013547_000000452063_00446_30059_7640.N1	30-NOV-2007 01:35:47	Twilight	44.500	163	7Del Crv	2.9450	11000.	89	30059	No
23	GOM_TRA_1PNPDE20071130_013726_000000442063_00446_30059_7641.N1	30-NOV-2007 01:37:26	Twilight	43.500	106	9Bet Crv	2.6480	5600.0	87	30059	No
24	GOM_TRA_1PNPDE20071130_014540_000000392063_00446_30059_7642.N1	30-NOV-2007 01:45:40	Dark	38.500	26	Gam Cru	1.6240	2900.0	77	30059	No
25	GOM_TRA_1PNPDE20071130_014744_000000422063_00447_30060_7643.N1	30-NOV-2007 01:47:44	Dark	42.000	113	Mu Vel	2.6920	5000.0	84	30060	No
26	GOM_TRA_1PNPDE20071130_014948_000000392063_00447_30060_7644.N1	30-NOV-2007 01:49:48	Dark	39.000	124	The Car	2.7640	30000.	78	30060	No
27	GOM_TRA_1PNPDE20071130_015236_000000392063_00447_30060_7645.N1	30-NOV-2007 01:52:36	Dark	39.000	29	Bet Car	1.6720	10200.	78	30060	No
28	GOM_TRA_1PNPDE20071130_015425_000000422063_00447_30060_7646.N1	30-NOV-2007 01:54:25	Dark	42.000	41	Eps Car	1.8600	4100.0	84	30060	No
29	GOM_TRA_1PNPDE20071130_015949_000000472063_00447_30060_7647.N1	30-NOV-2007 01:59:49	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	30060	No
30	GOM_TRA_1PNPDE20071130_021409_000000462063_00447_30060_7648.N1	30-NOV-2007 02:14:09	Straylight	45.500	165	34Gam Eri	2.9500	3200.0	91	30060	No
31	GOM_TRA_1PNPDE20071130_021931_000000422063_00447_30060_7649.N1	30-NOV-2007 02:19:31	Twilight	42.000	94	92Alp Cet	2.5260	3100.0	84	30060	No
32	GOM_TRA_1PNPDE20071130_022524_000000402063_00447_30060_7650.N1	30-NOV-2007 02:25:24	Bright	40.000	146	25Eta Tau	2.8730	15200.	80	30060	No
33	GOM_TRA_1PNPDE20071130_022748_000000382063_00447_30060_7651.N1	30-NOV-2007 02:27:48	Bright	38.000	150	44Zet Per	2.8900	28000.	76	30060	No
34	GOM_TRA_1PNPDE20071130_022959_000000372063_00447_30060_7652.N1	30-NOV-2007 02:29:59	Bright	37.000	79	26Bet Per	2.3100	13100.	74	30060	No
35	GOM_TRA_1PNPDE20071130_023214_000000362063_00447_30060_7653.N1	30-NOV-2007 02:32:14	Bright	36.000	175	39Del Per	3.0100	19400.	72	30060	No
36	GOM_TRA_1PNPDE20071130_023332_000000372063_00447_30060_7654.N1	30-NOV-2007 02:33:32	Bright	36.500	160	23Gam Per	2.9300	4700.0	73	30060	No
37	GOM_TRA_1PNPDE20071130_024334_000000332063_00447_30060_7733.N1	30-NOV-2007 02:43:34	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	30060	Yes
38	GOM_TRA_1PNPDE20071130_024813_000000372063_00447_30060_7734.N1	30-NOV-2007 02:48:13	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	30060	No
39	GOM_TRA_1PNPDE20071130_025329_000000382063_00447_30060_7735.N1	30-NOV-2007 02:53:29	Bright	38.000	32	77Eps UMa	1.7630	11000.	76	30060	No
40	GOM_TRA_1PNPDE20071130_025530_000000342063_00447_30060_7736.N1	30-NOV-2007 02:55:30	Bright	34.000	39	85Eta UMa	1.8540	24000.	68	30060	No

41	GOM_TRA_1PNPDE20071130_025822_000000362063_00447_30060_7737.N1	30-NOV-2007 02:58:22	Bright	36.000	180	27Gam Boo	3.0400	8000.0	72	30060	No
42	GOM_TRA_1PNPDE20071130_030354_000000342063_00447_30060_7738.N1	30-NOV-2007 03:03:54	Bright	33.500	3	16Alp Boo	-0.050000	4250.0	67	30060	No
43	GOM_TRA_1PNPDE20071130_030725_000000402063_00447_30060_7739.N1	30-NOV-2007 03:07:25	Bright	39.500	138	47Eps Vir	2.8280	4700.0	79	30060	No
44	GOM_TRA_1PNPDE20071130_031141_000000432063_00447_30060_7740.N1	30-NOV-2007 03:11:41	Bright	43.000	121	29Gam Vir	2.7400	7200.0	86	30060	No
45	GOM_TRA_1PNPDE20071130_031312_000000492063_00447_30060_7741.N1	30-NOV-2007 03:13:12	Bright	49.000	15	67Alp Vir	0.97600	28000.	98	30060	No
46	GOM_TRA_1PNPDE20071130_031624_000000432063_00447_30060_7742.N1	30-NOV-2007 03:16:24	Twilight	43.000	163	7Del Crv	2.9450	11000.	86	30060	No
47	GOM_TRA_1PNPDE20071130_031802_000000412063_00447_30060_7743.N1	30-NOV-2007 03:18:02	Twilight	41.000	106	9Bet Crv	2.6480	5600.0	82	30060	No
48	GOM_TRA_1PNPDE20071130_032008_000000372063_00447_30060_7744.N1	30-NOV-2007 03:20:08	Dark	37.000	123	1ot Cen	2.7500	10200.	74	30060	No

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



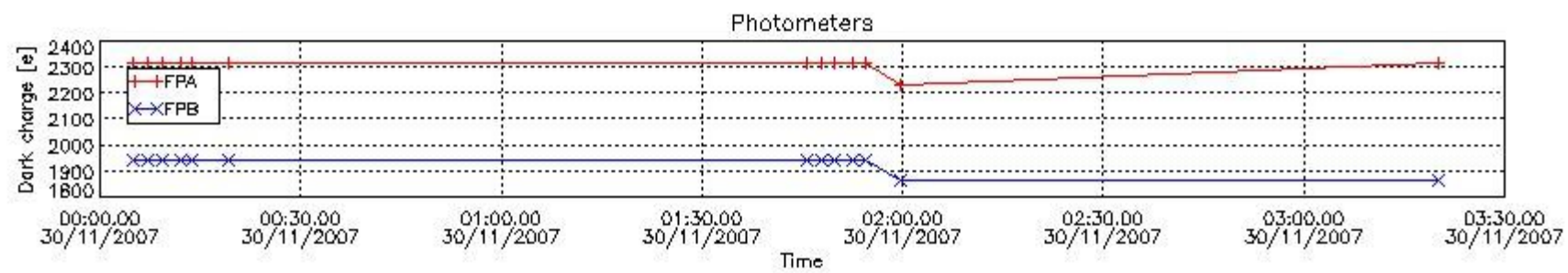
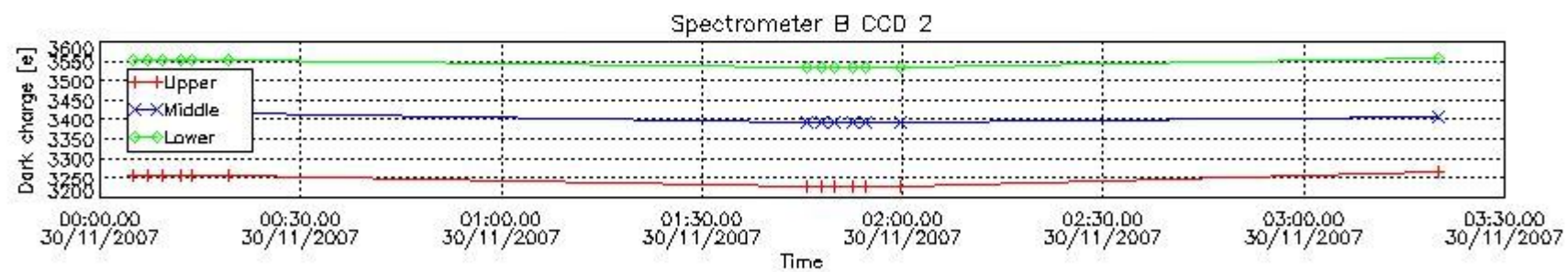
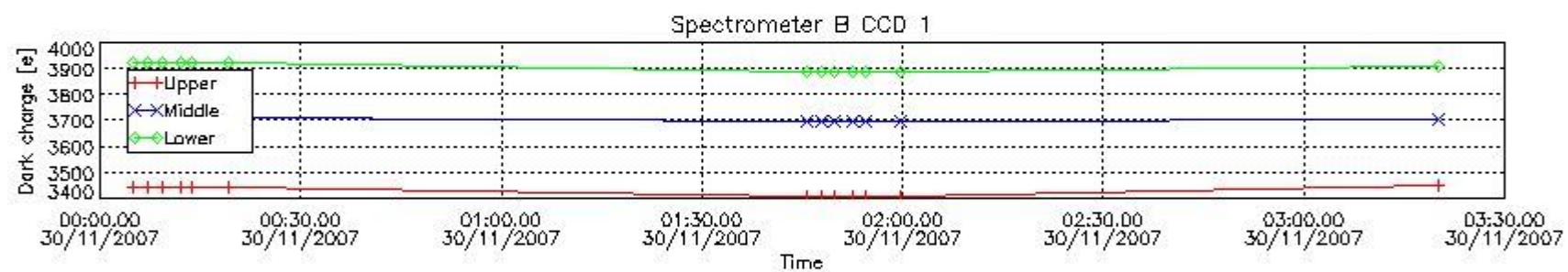
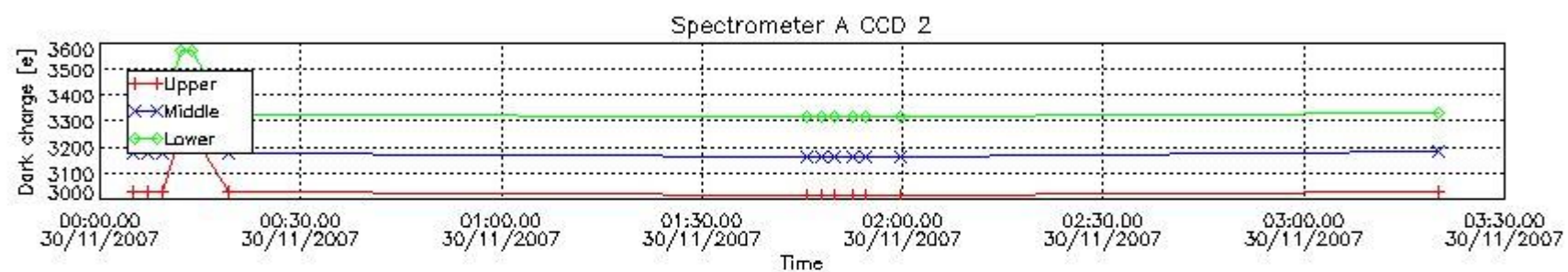
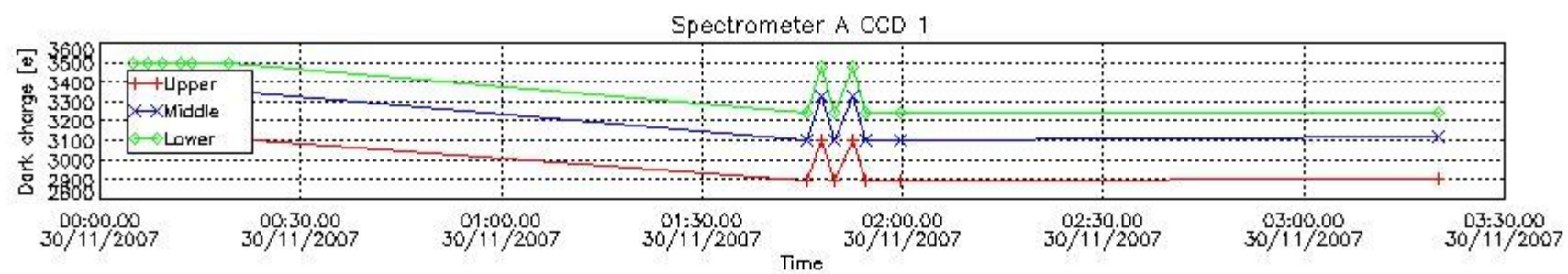
4. Overview of dark signal processing per product

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



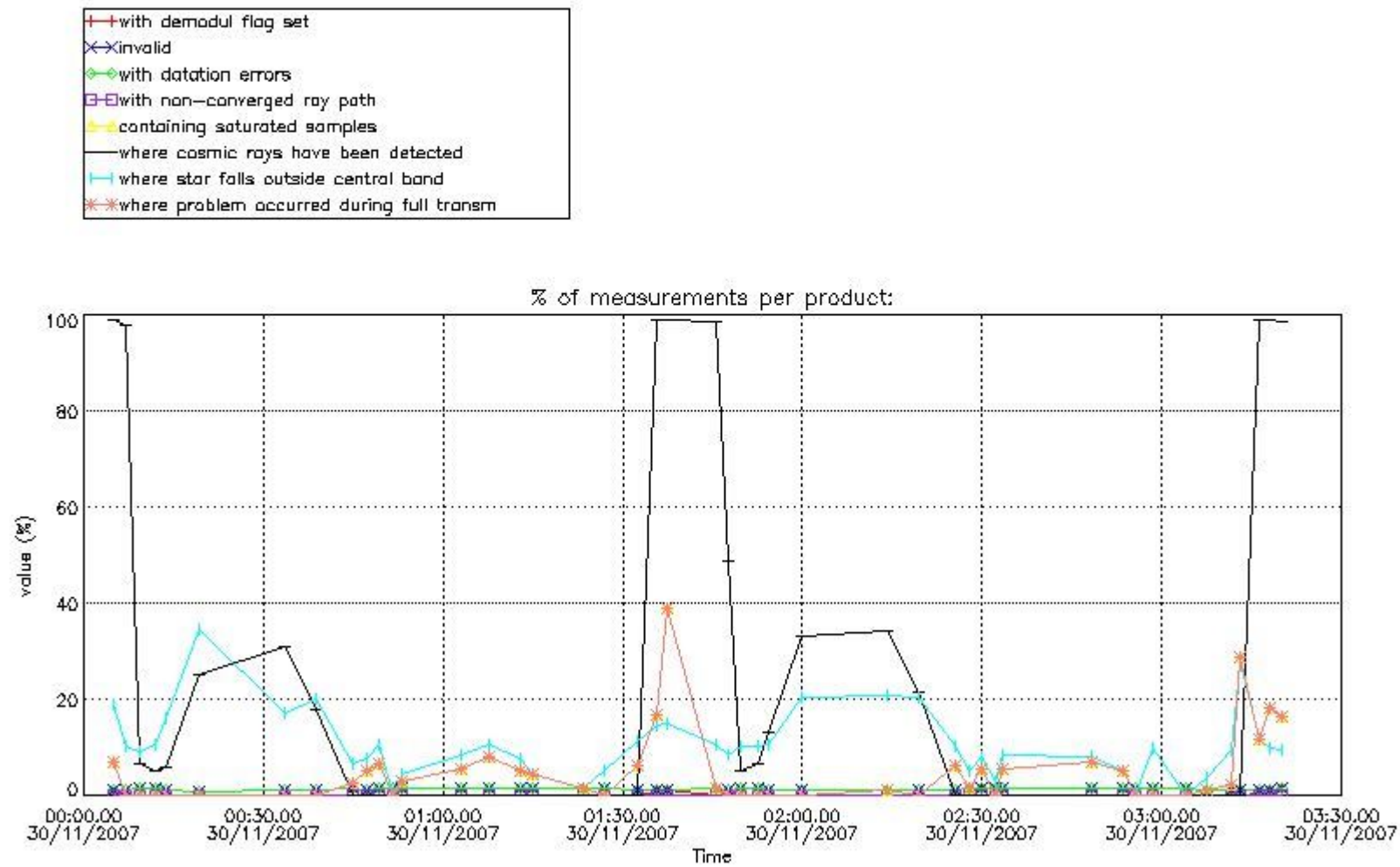
5. Demodulation flag and quality information monitoring

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.

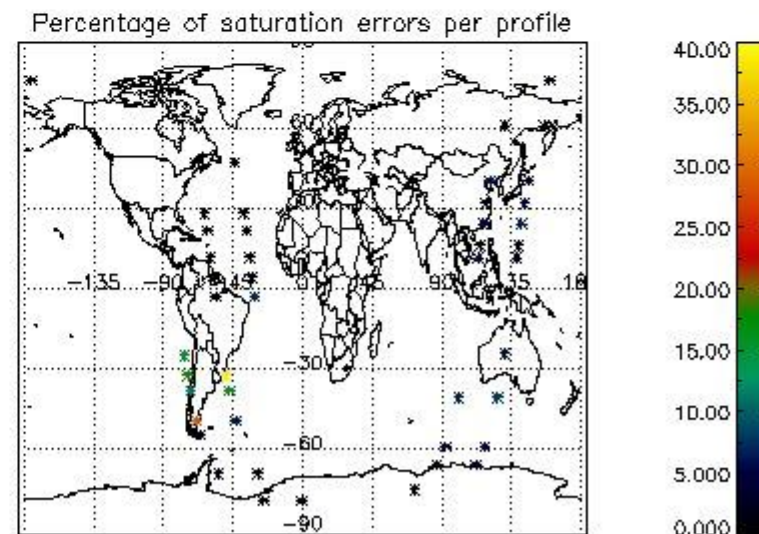
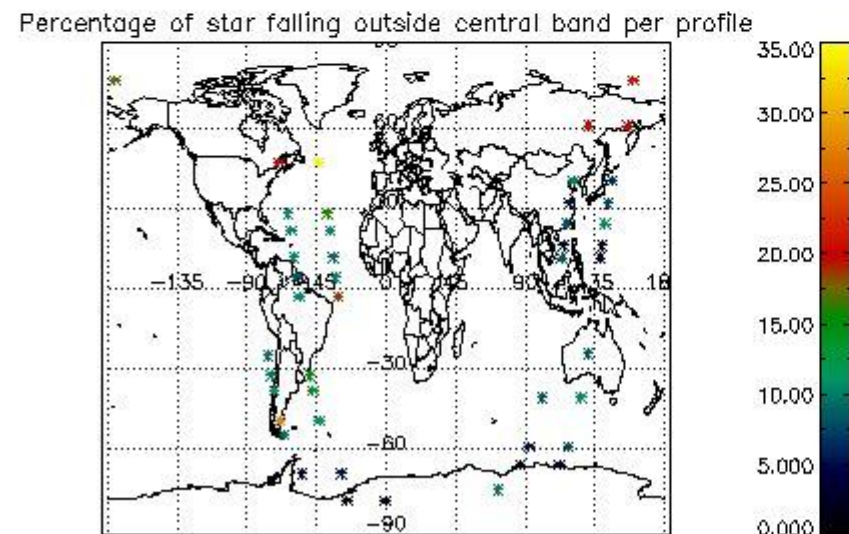
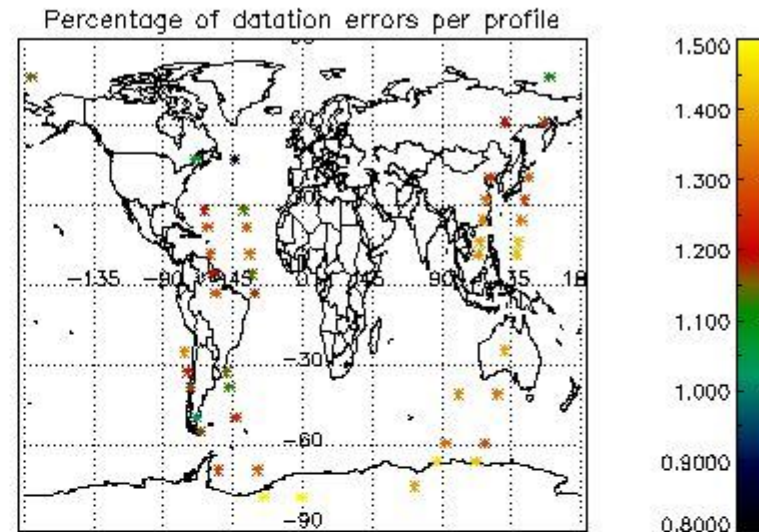
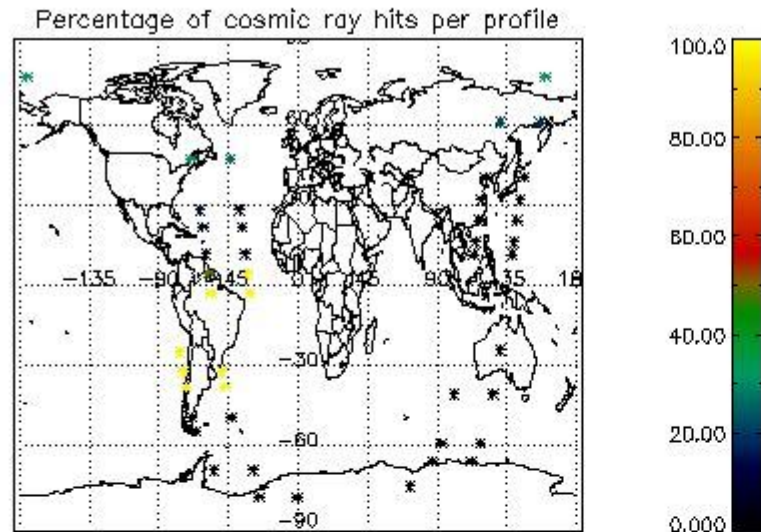
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	23.9130 %
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)



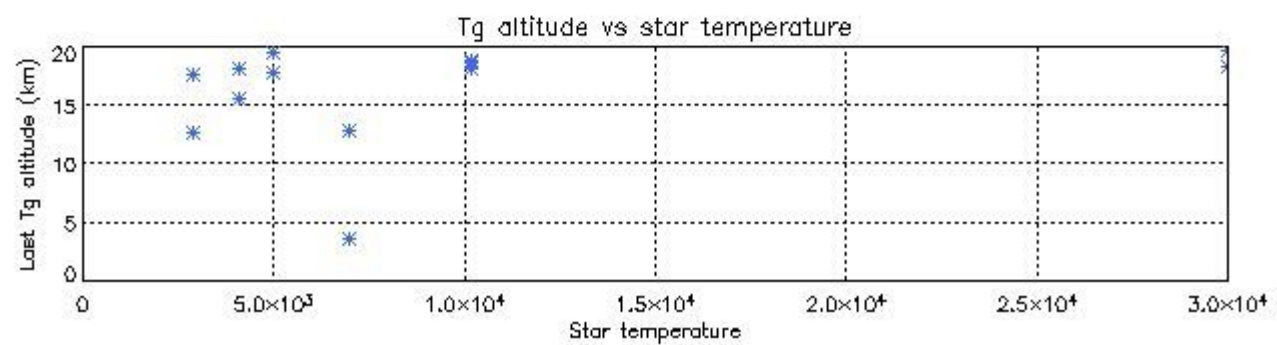
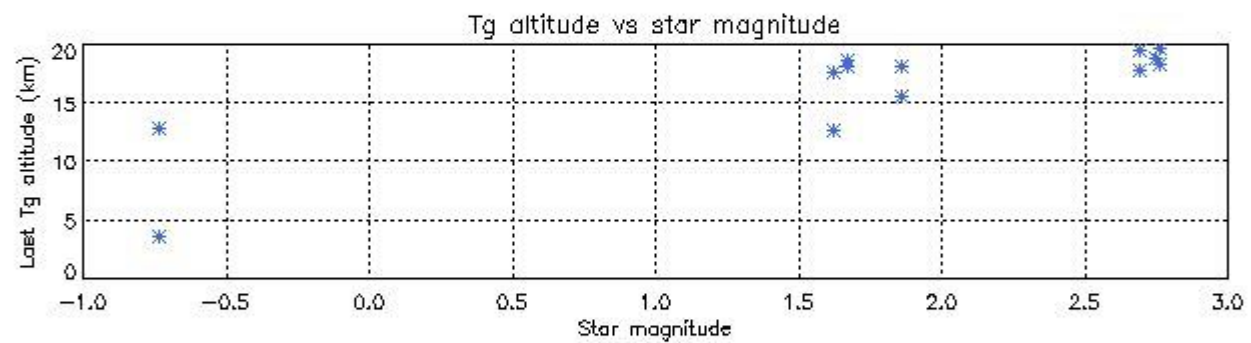
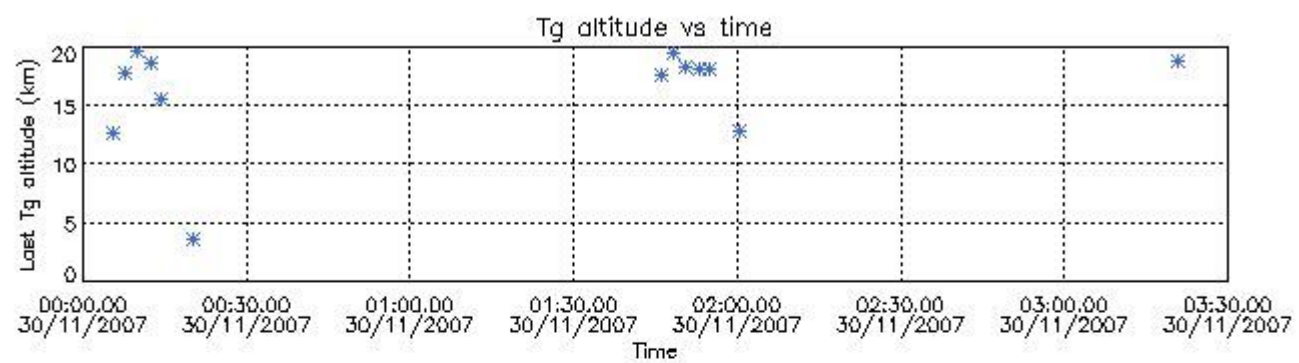
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.252	20.571	16.907
St. deviation:	4.4301	3.8602	2.4955
Maximum:	19.691	26.418	18.672
Minimum:	3.5982	7.7027	15.143
Number of data:	13.000	25.000	2.0000

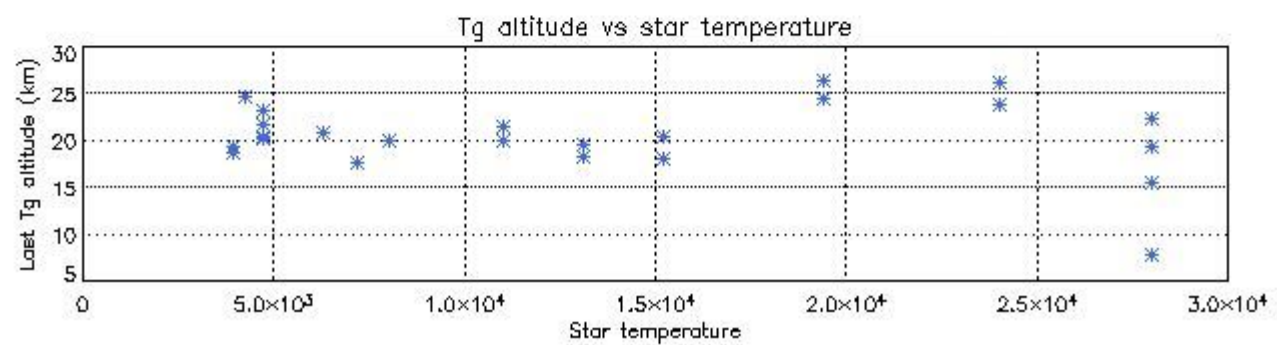
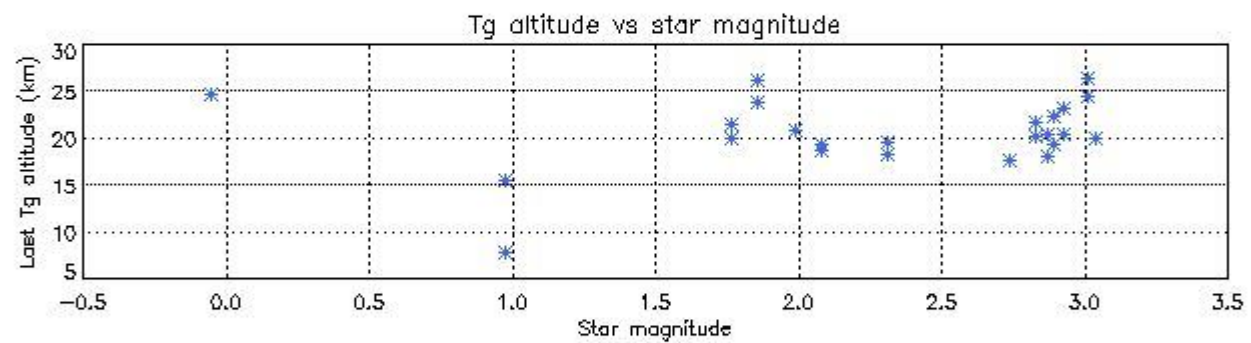
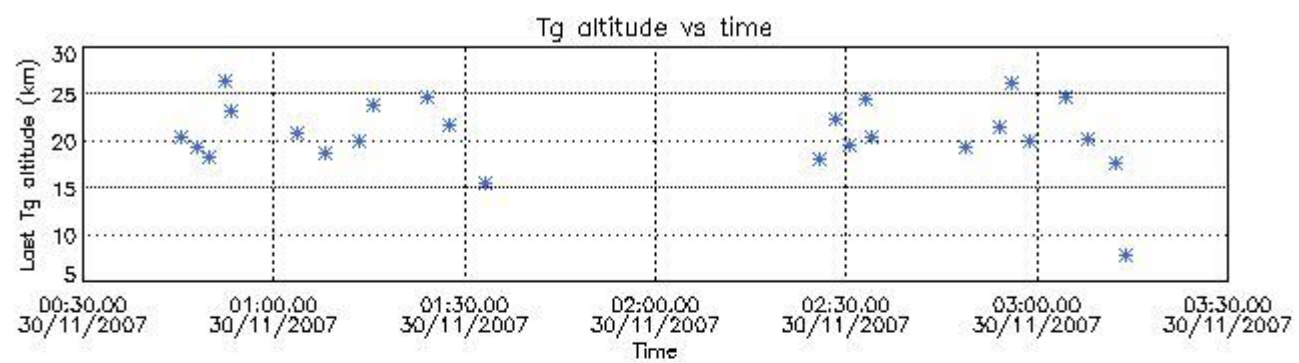
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



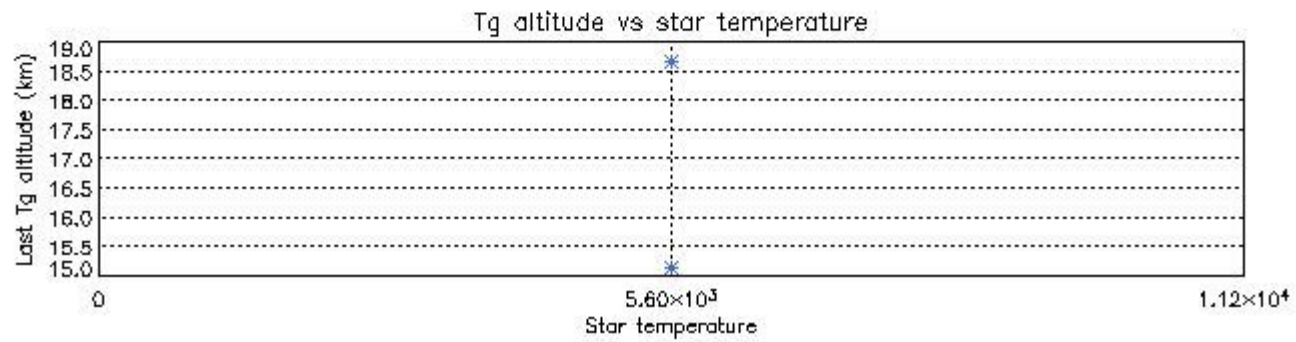
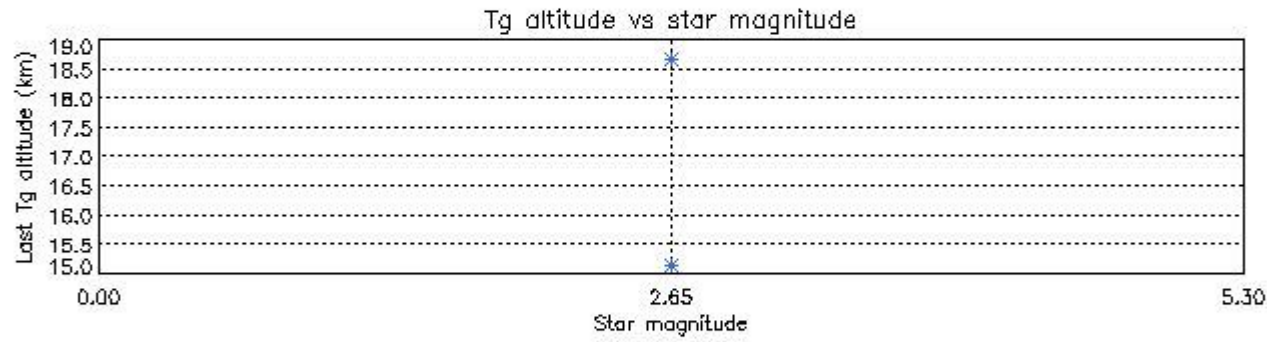
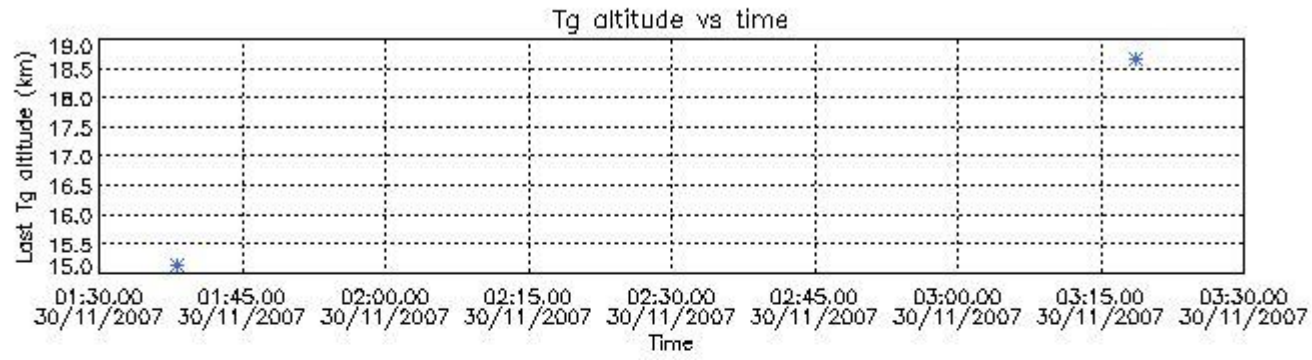
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

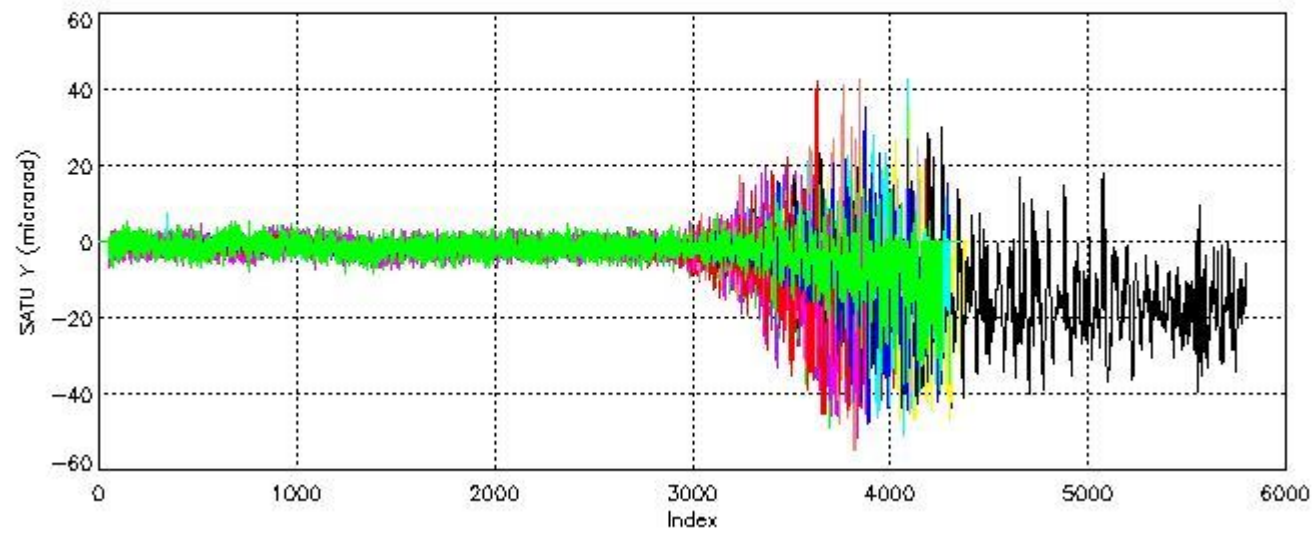
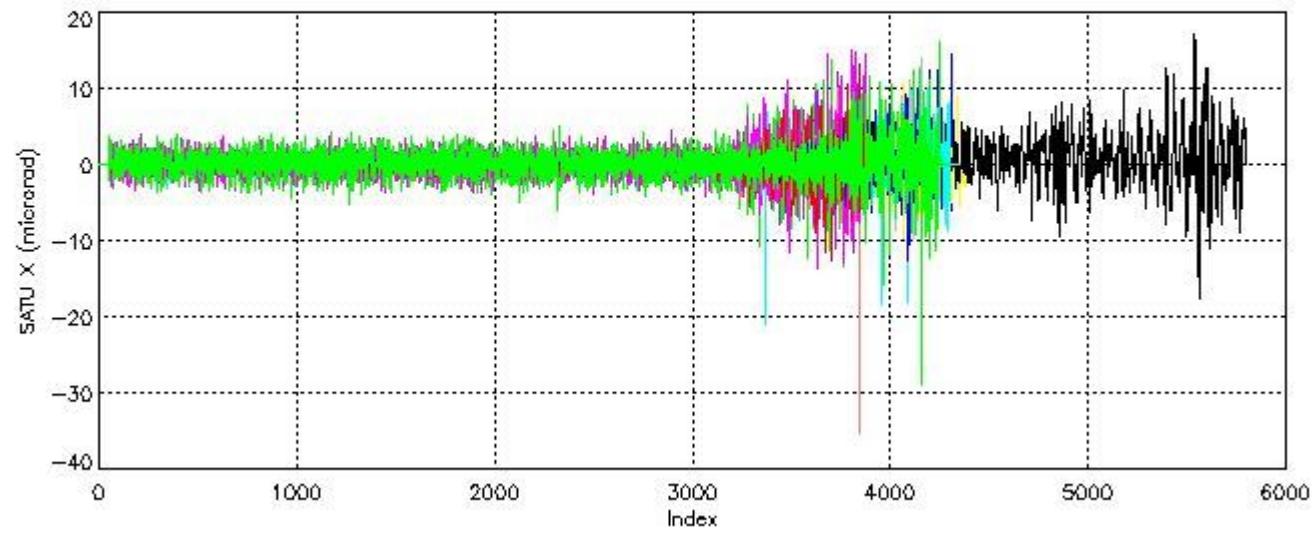


7. Star Acquisition and Tracking Unit (SATU)

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:	0.11557	-1.1647	0.078560	-1.0768
St. deviation:	0.47748	1.1088	0.84574	1.4521
Maximum:	4.0000	4.5000	6.5000	7.2000
Minimum:	-3.6000	-7.1000	-7.6000	-7.9000

Number of data:	11950.	11950.	21250.	21250.
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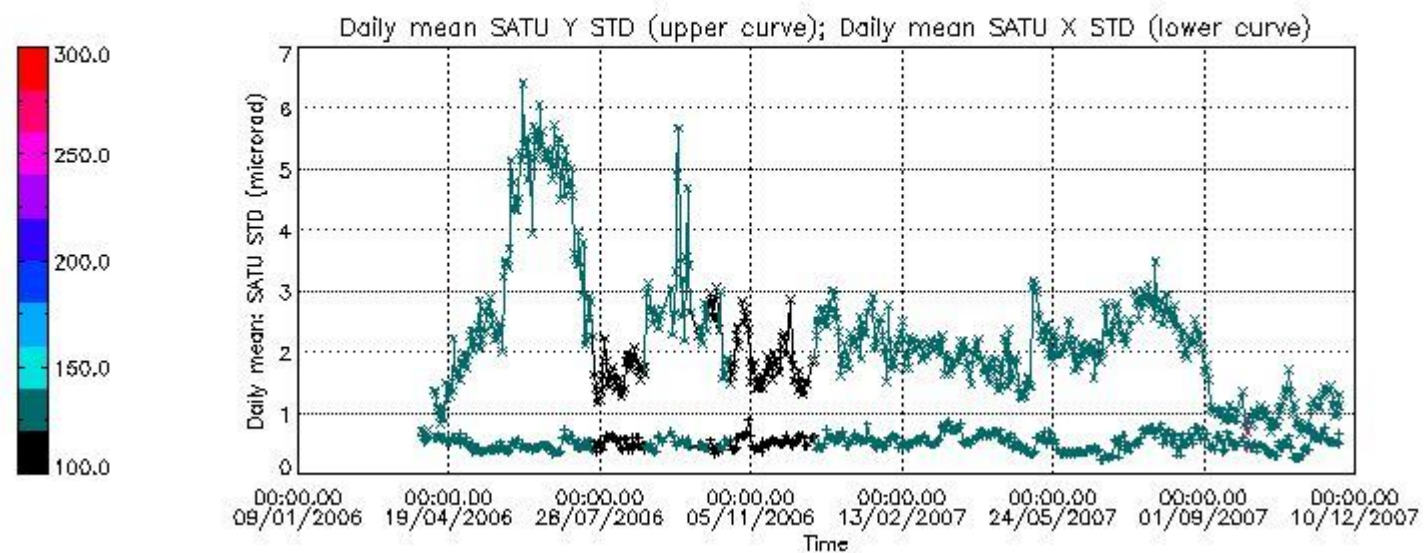
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

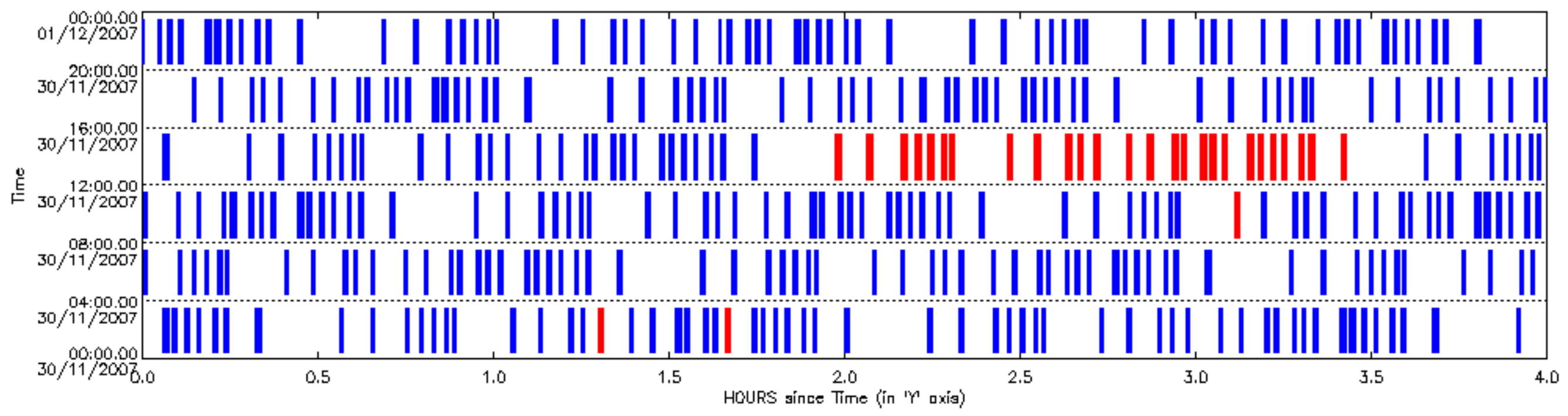
Lower curve: STD of SATU X axis

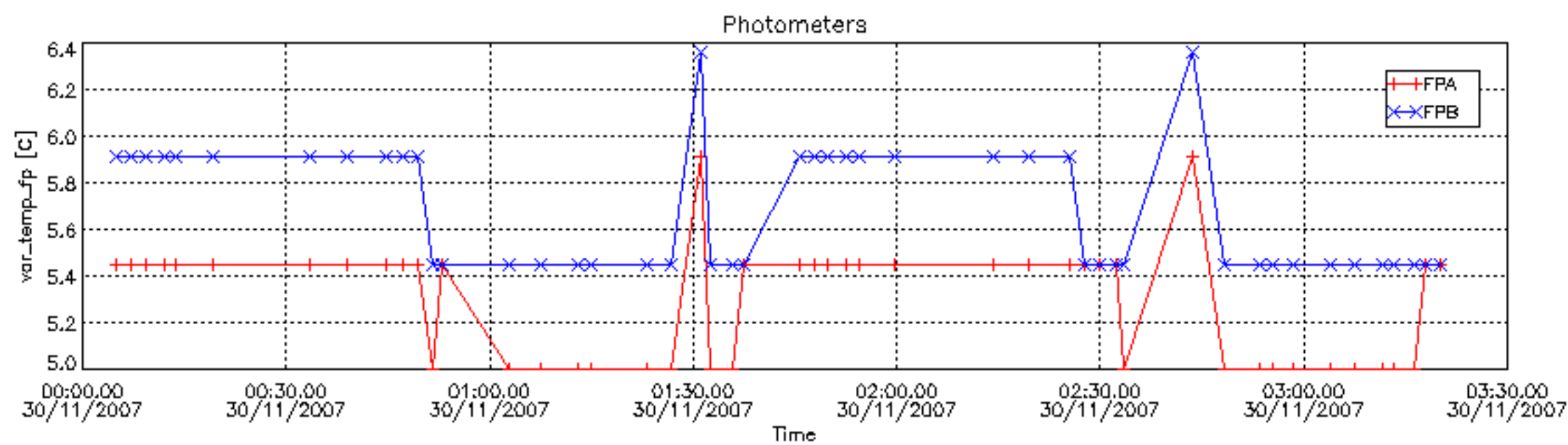
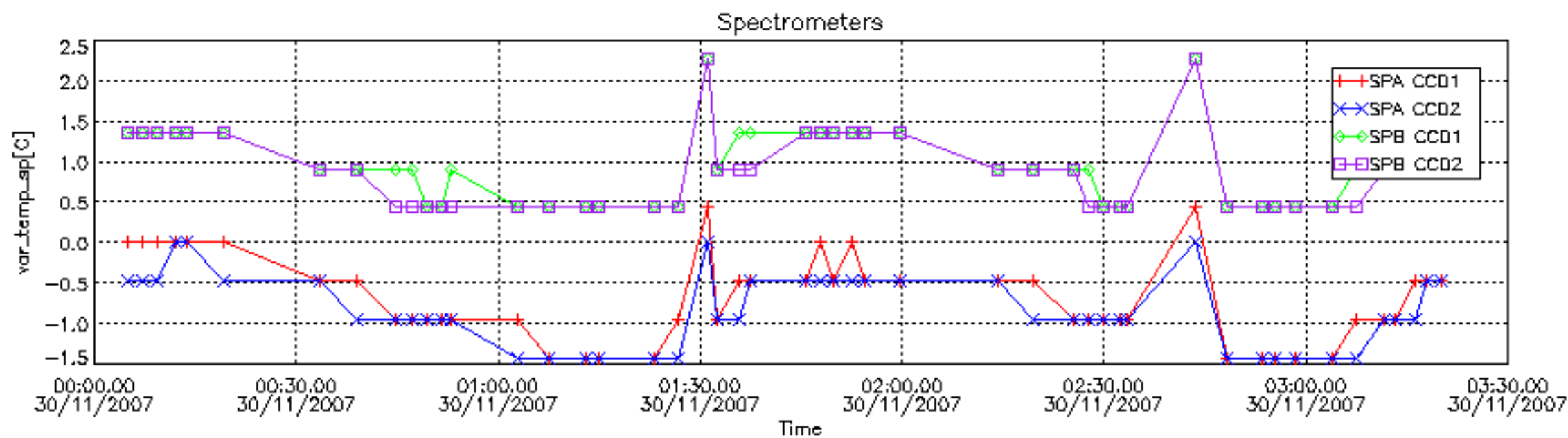


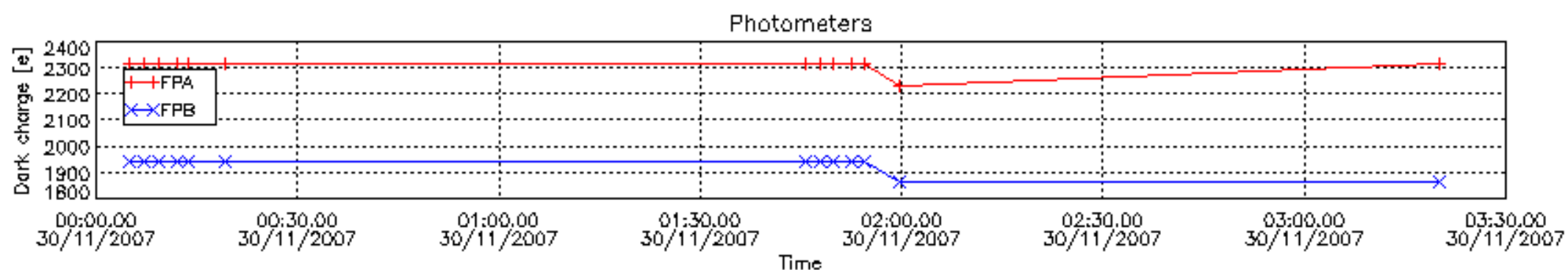
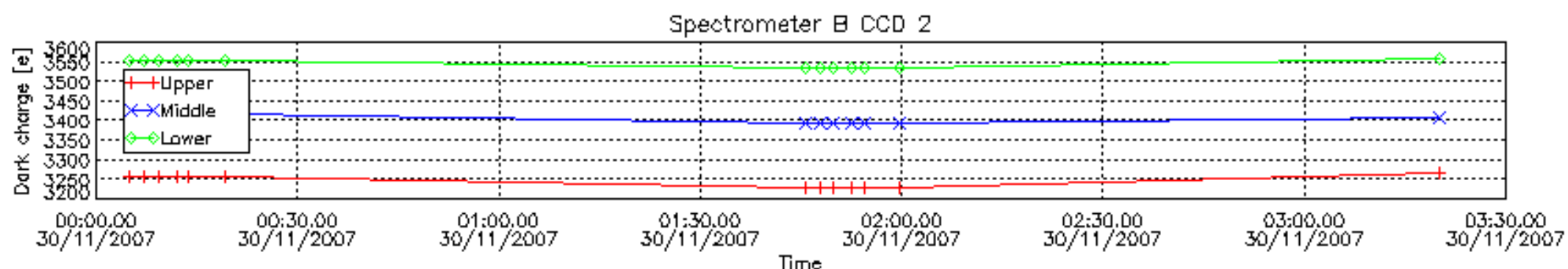
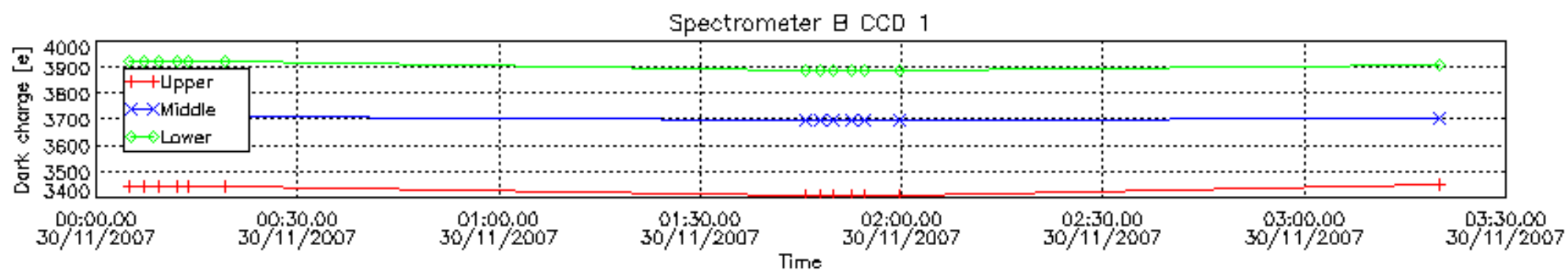
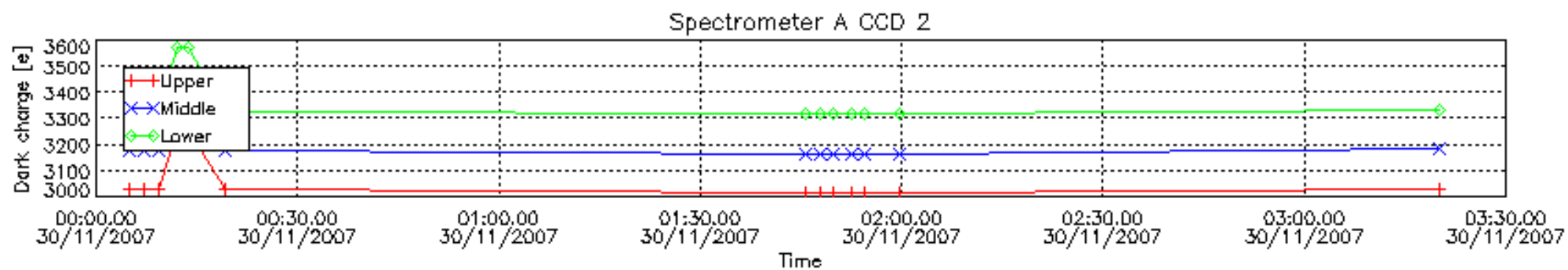
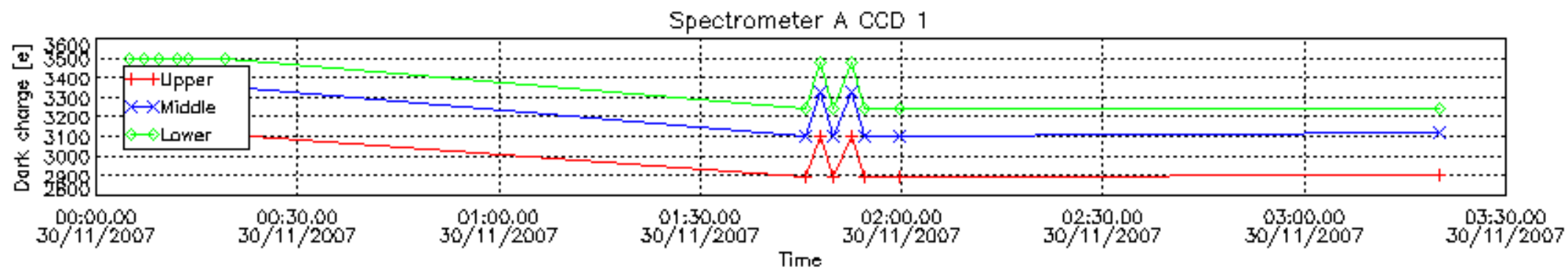
8. Auxiliary Data Files used for the production reported in section 2.4

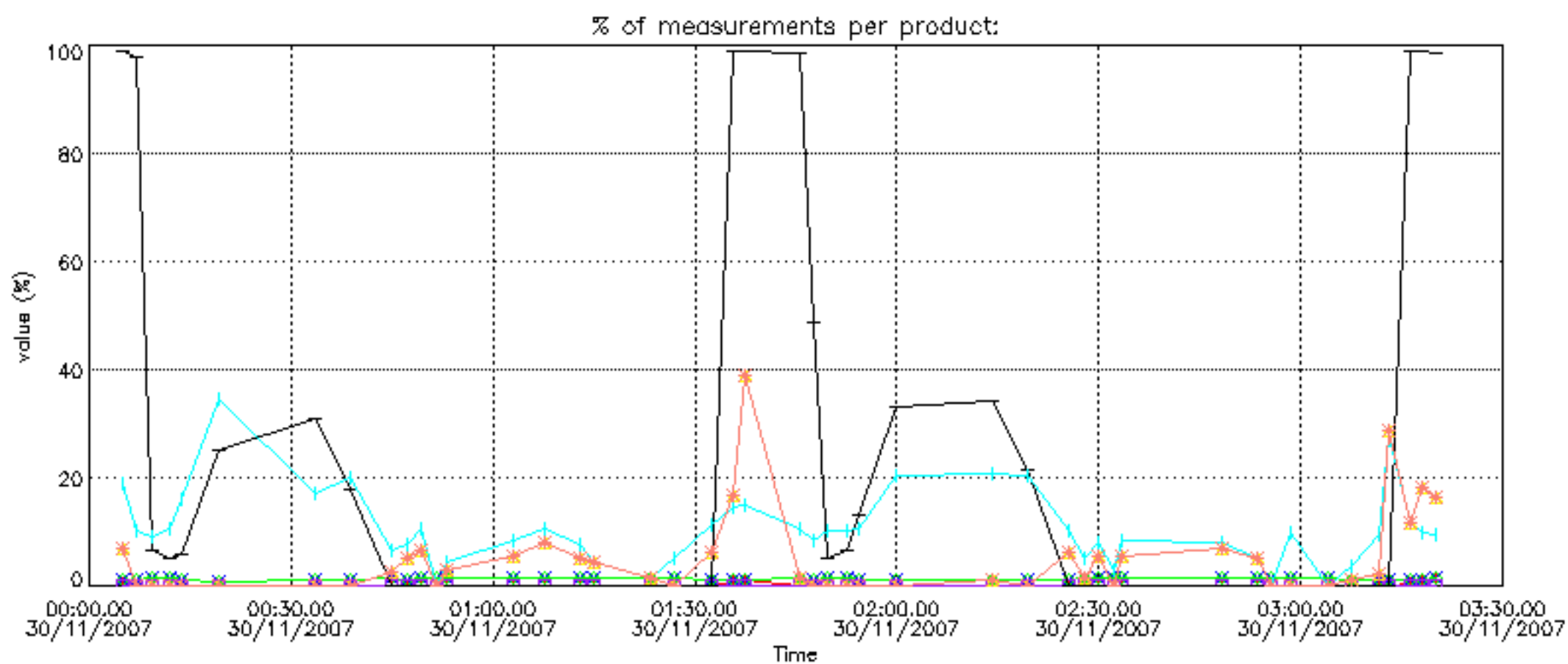
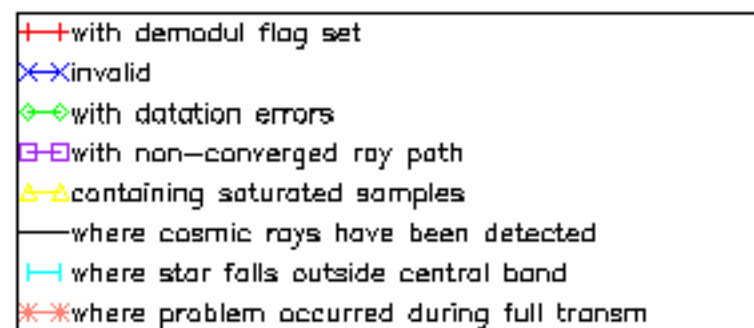
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	30-NOV-2007 00:05:04
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071123_091259_20071121_000000_20100101_000000	1	30-NOV-2007 00:05:04
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	30-NOV-2007 00:05:04
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	30-NOV-2007 00:05:04
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	30-NOV-2007 00:05:04
ECMWF_FILE	AUX_ECF_AXNECM20071129_063112_20071129_210000_20071130_090000	1	30-NOV-2007 00:05:04
OPTIONAL_ECMWF_FILE	MISSING	1	30-NOV-2007 00:05:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071129_221126_000057382063_00444_30057_4660.N1	1	30-NOV-2007 00:05:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071129_234704_000057382063_00445_30058_4661.N1	20	30-NOV-2007 01:31:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071130_012801_000041442063_00446_30059_4662.N1	37	30-NOV-2007 02:43:34

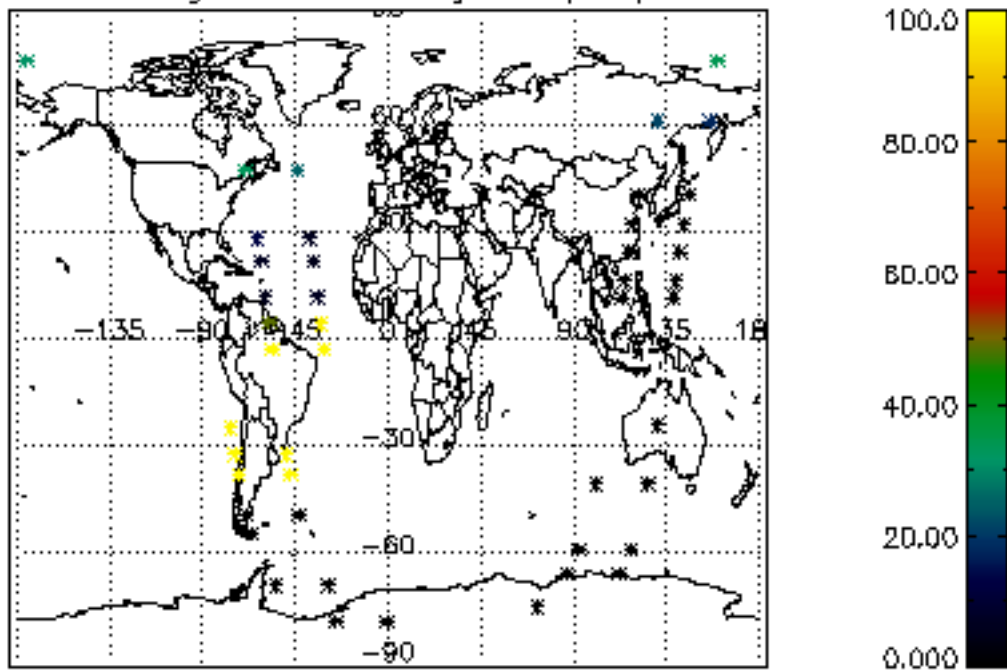




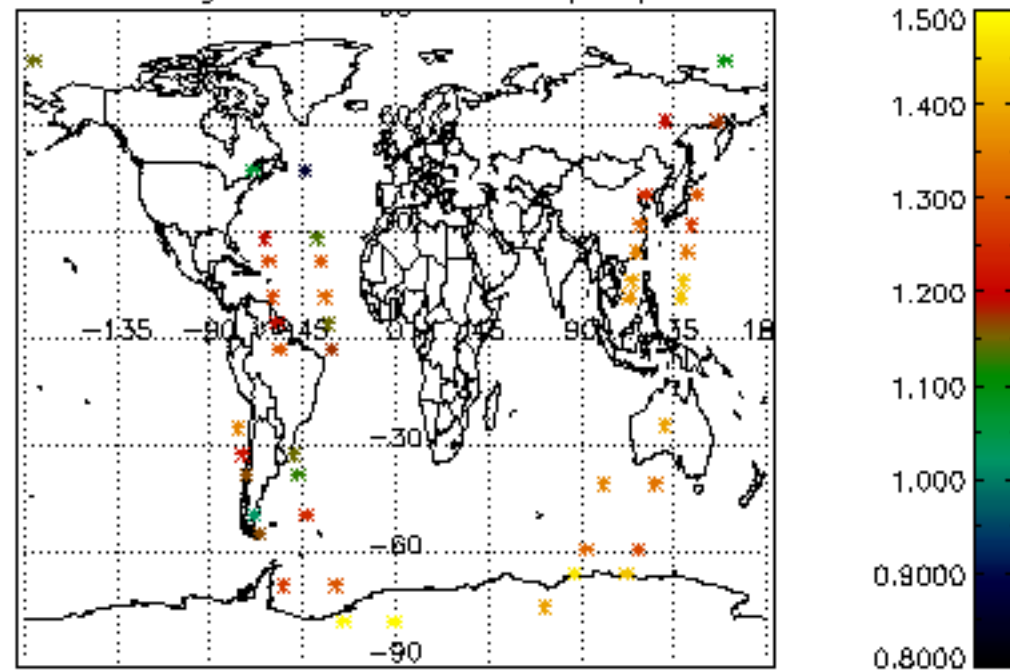




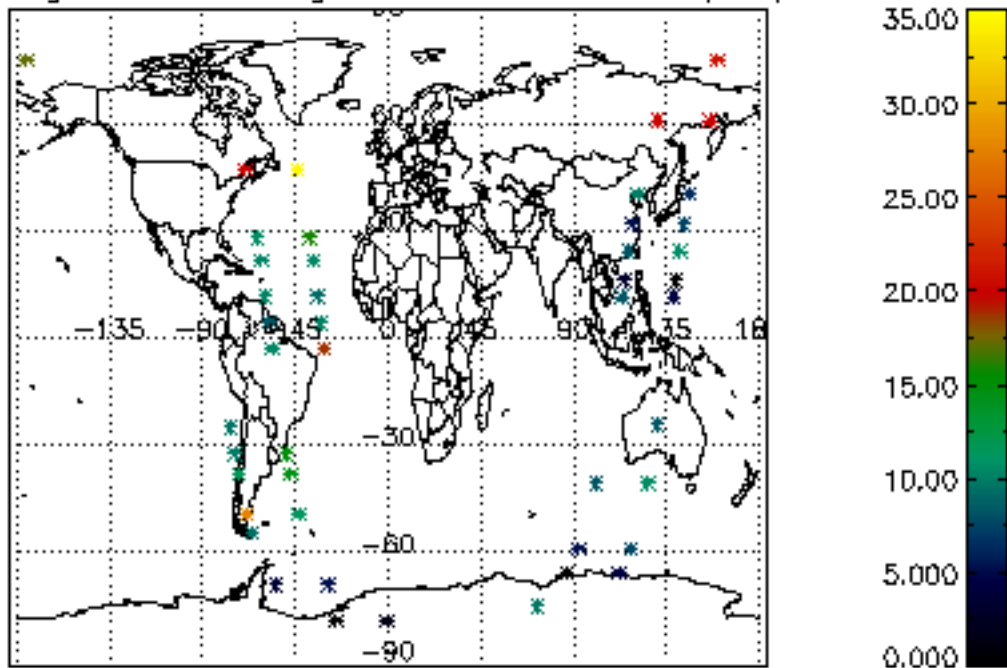
Percentage of cosmic ray hits per profile



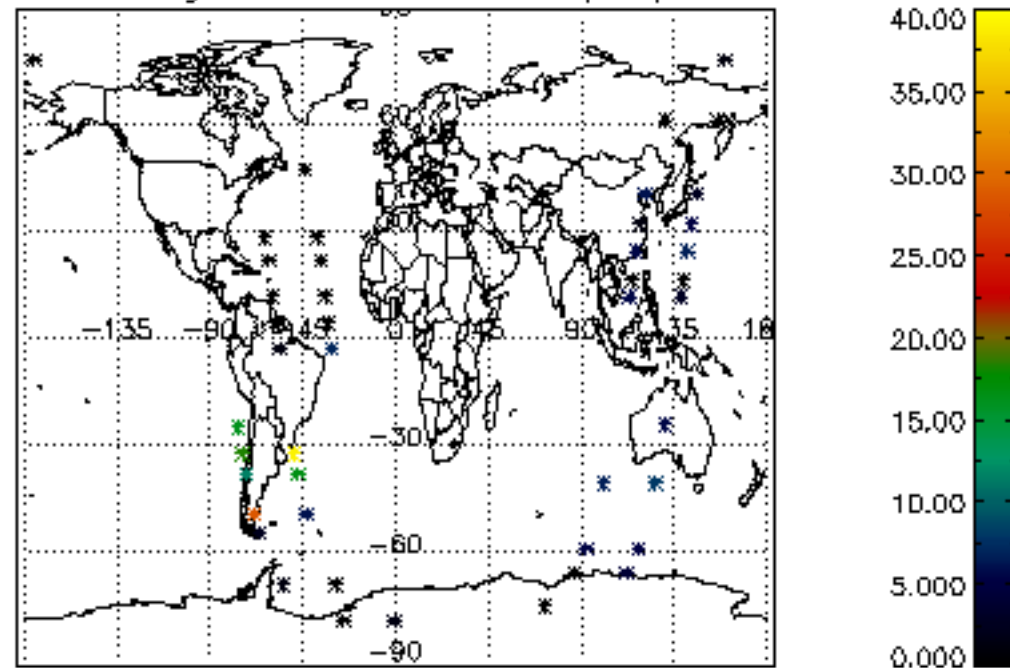
Percentage of datation errors per profile



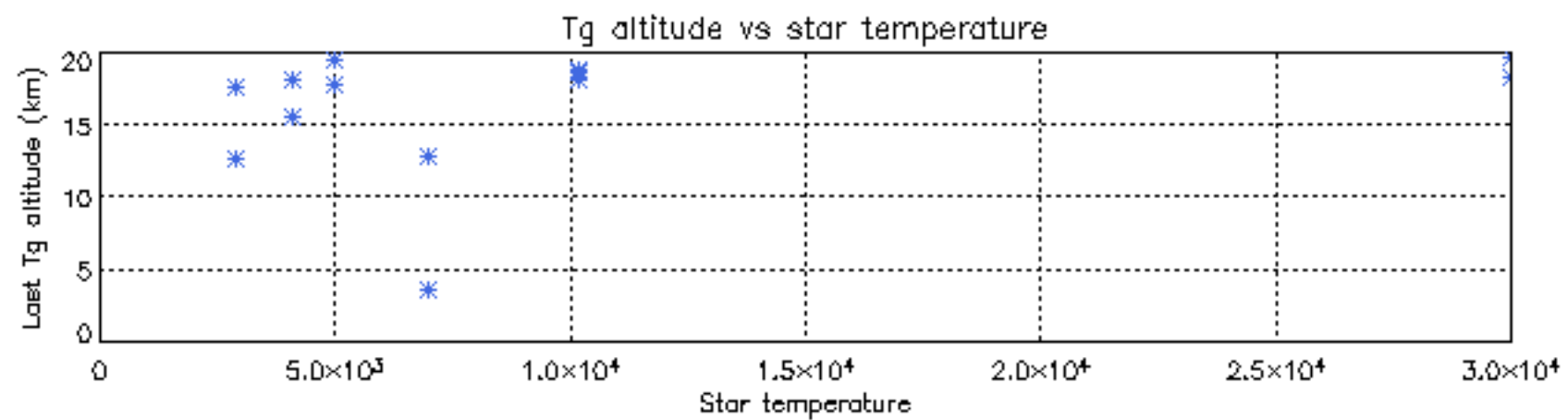
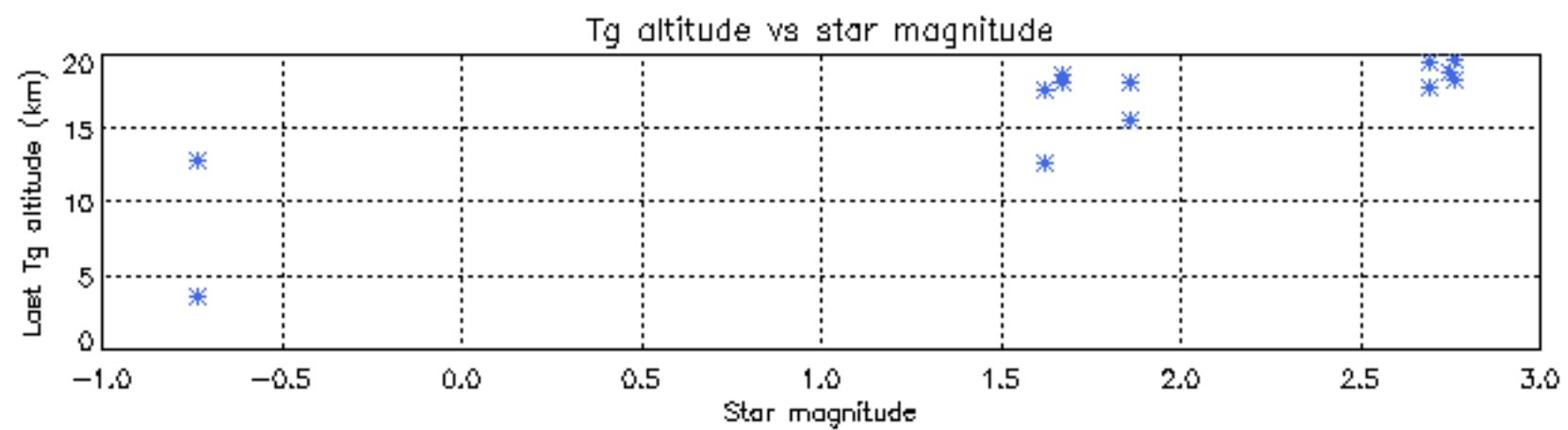
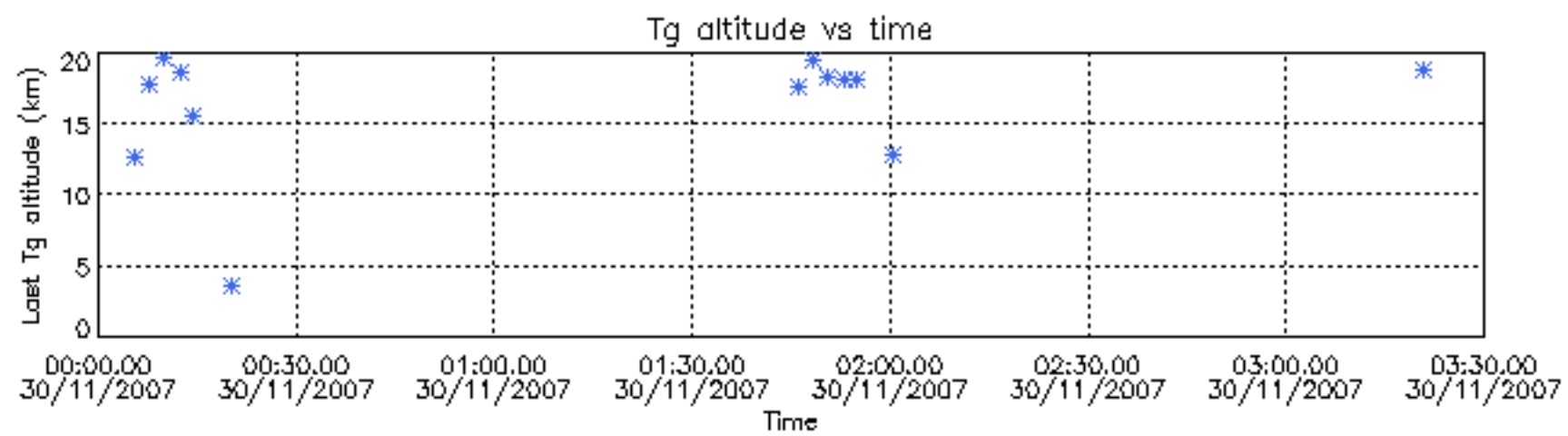
Percentage of star falling outside central band per profile



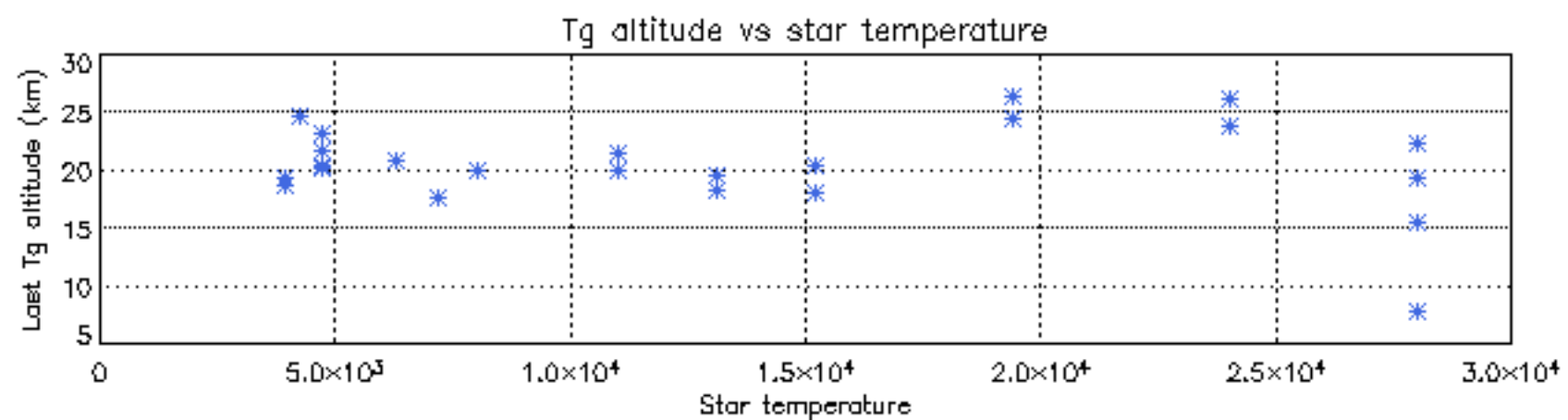
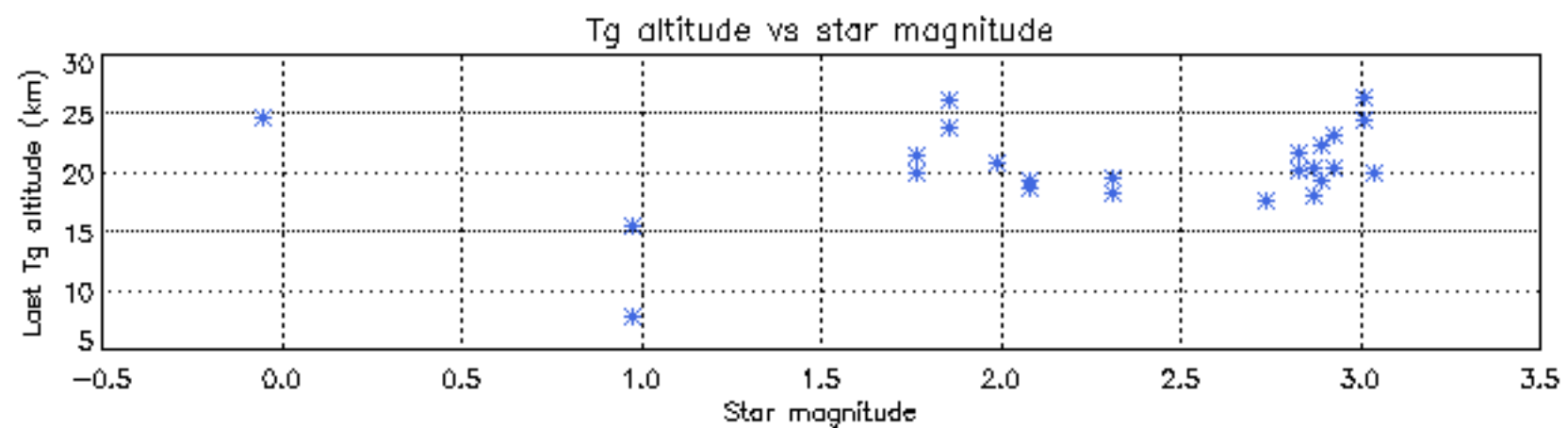
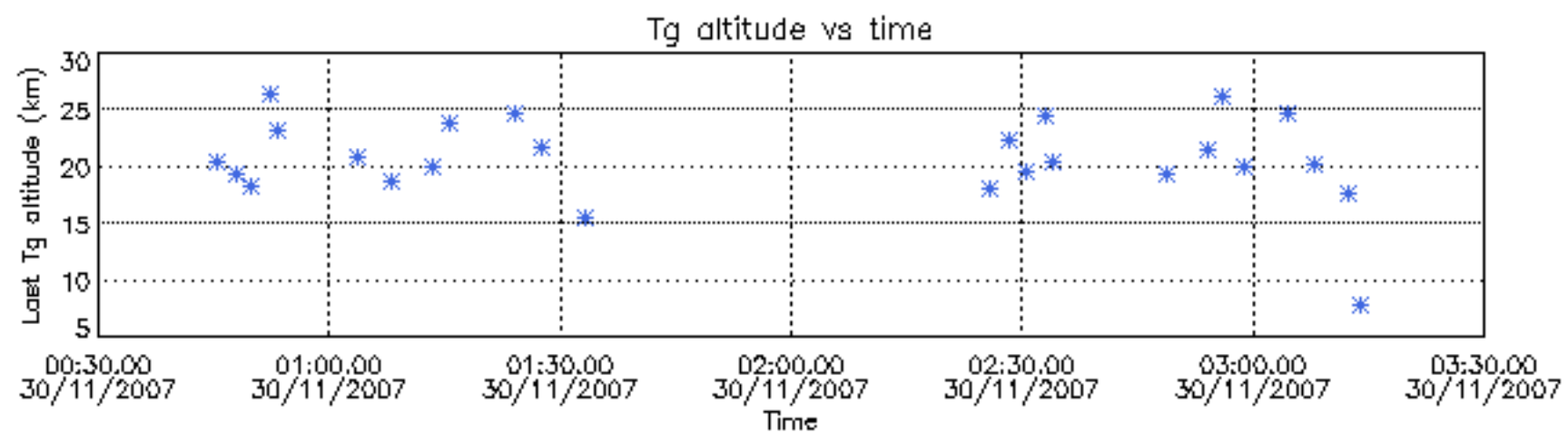
Percentage of saturation errors per profile



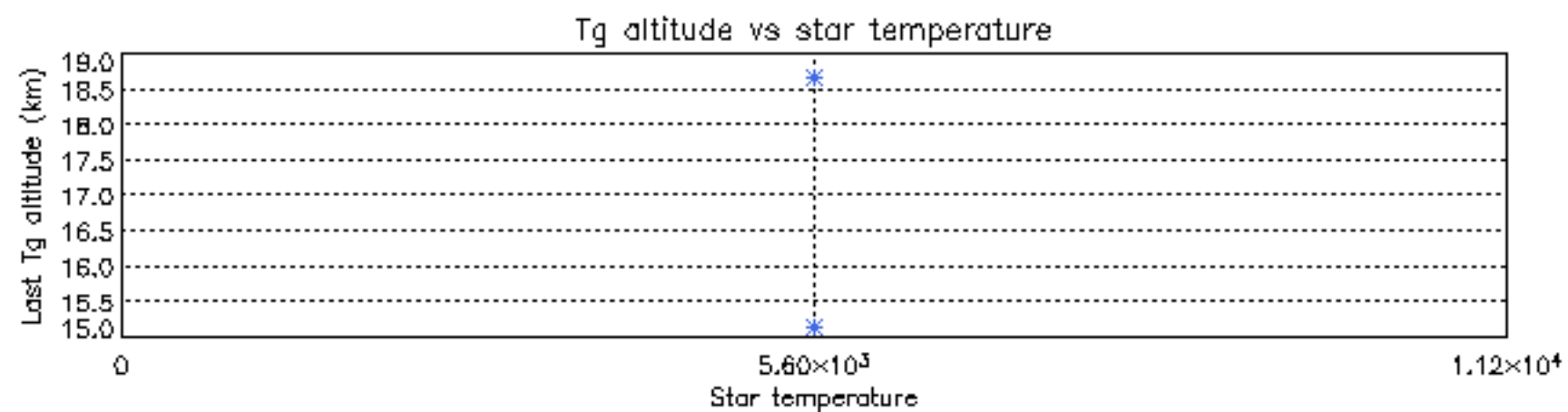
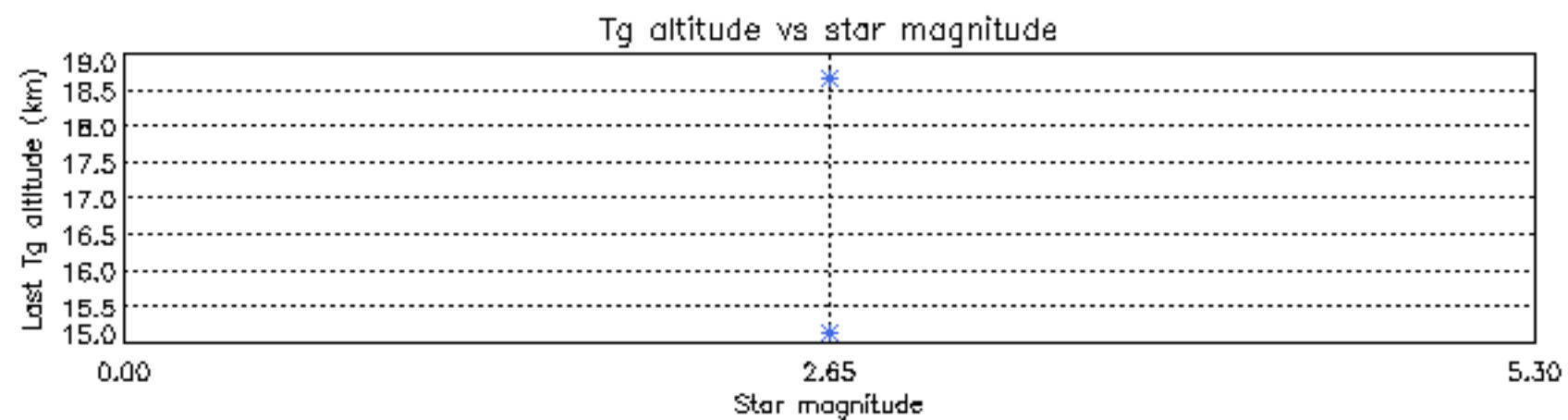
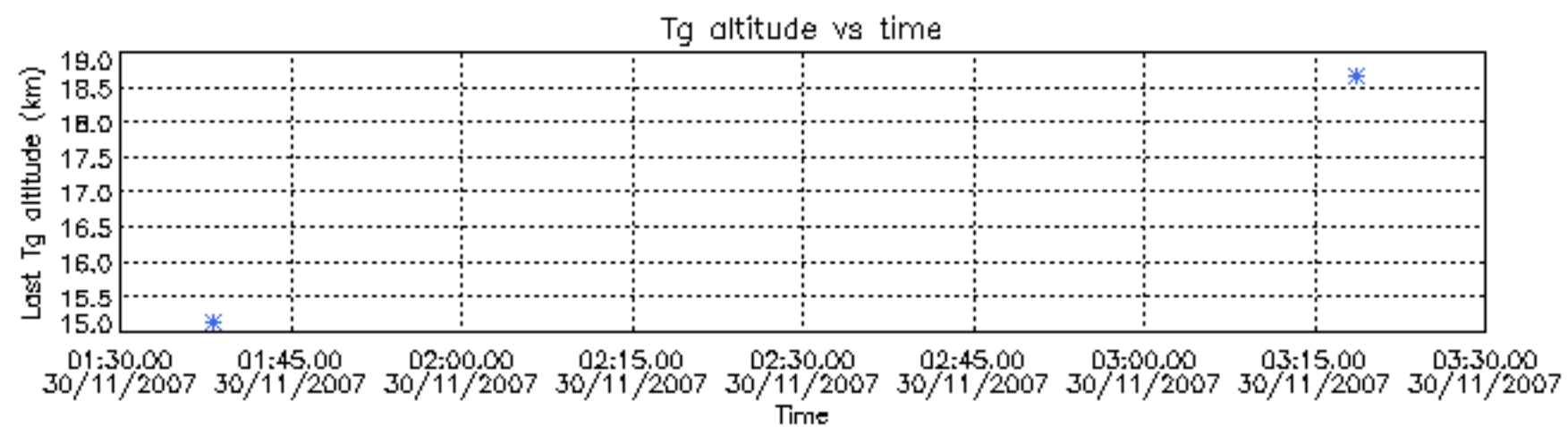
Tangent altitude at which the star is lost

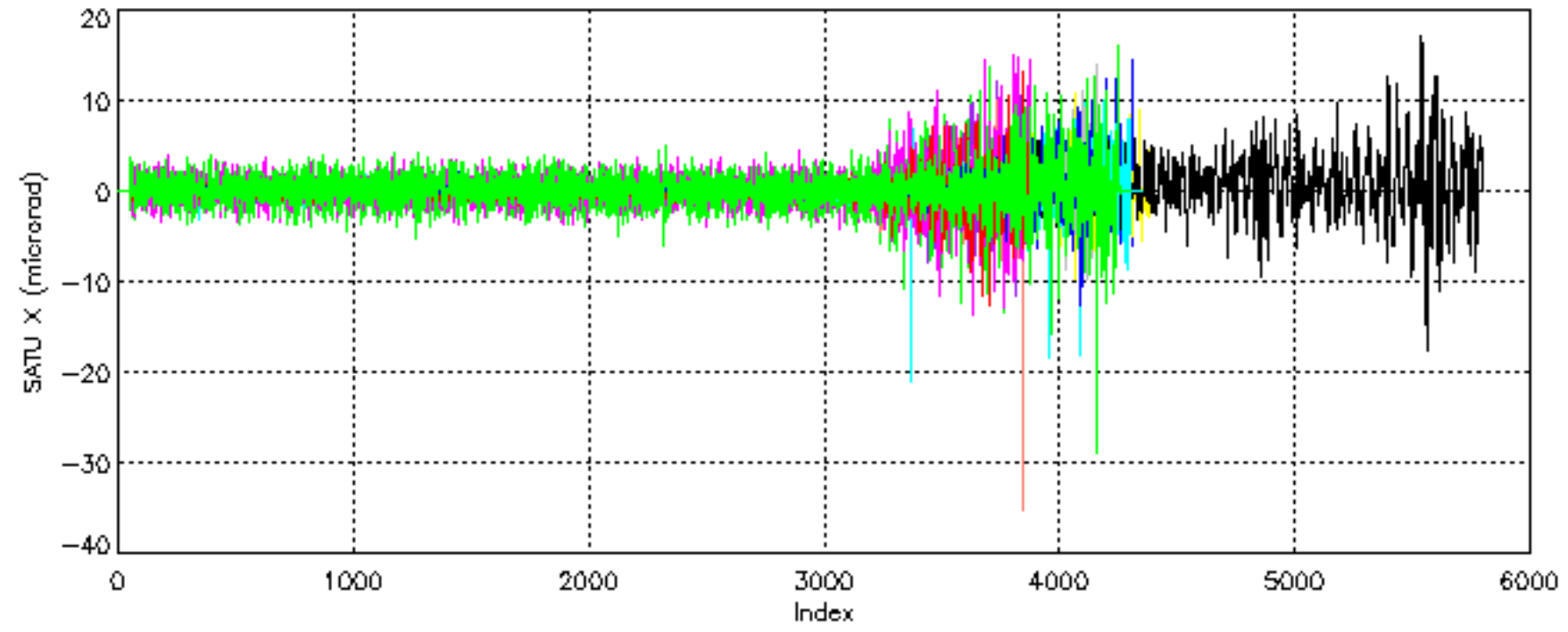


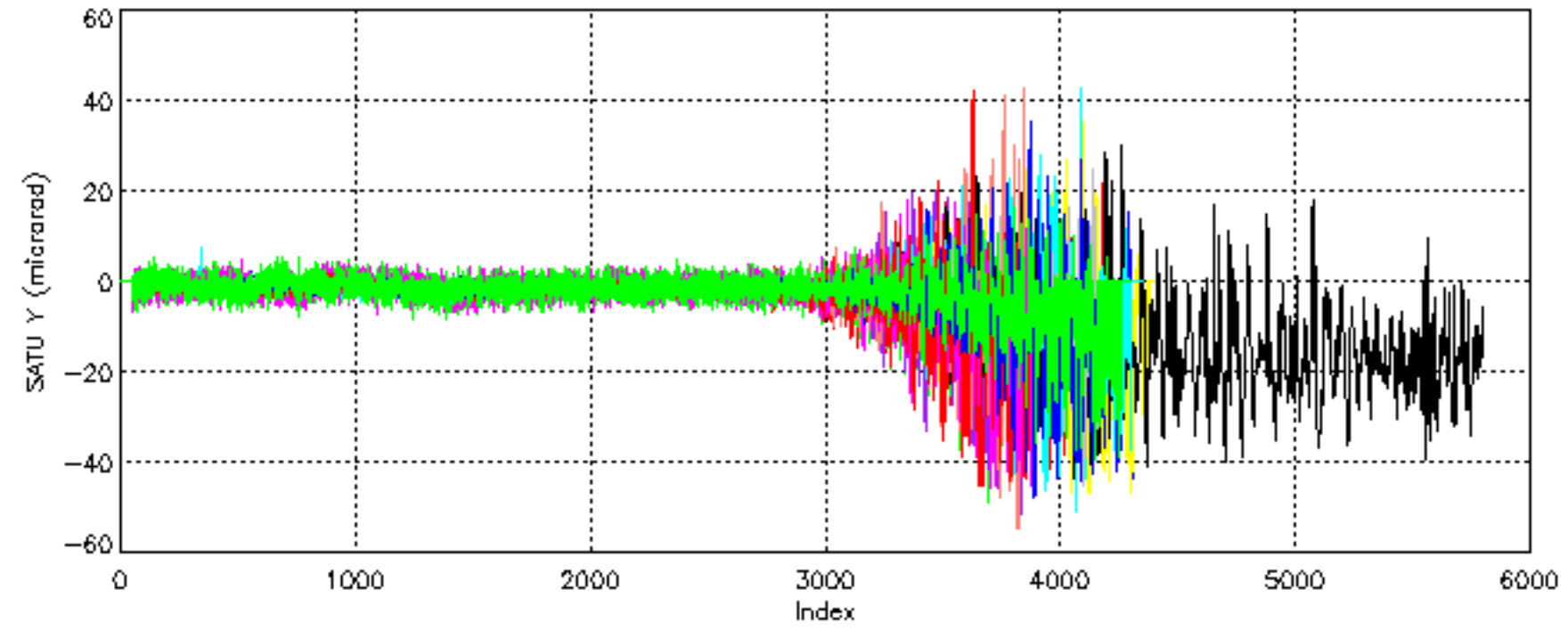
Tangent altitude at which the star is lost

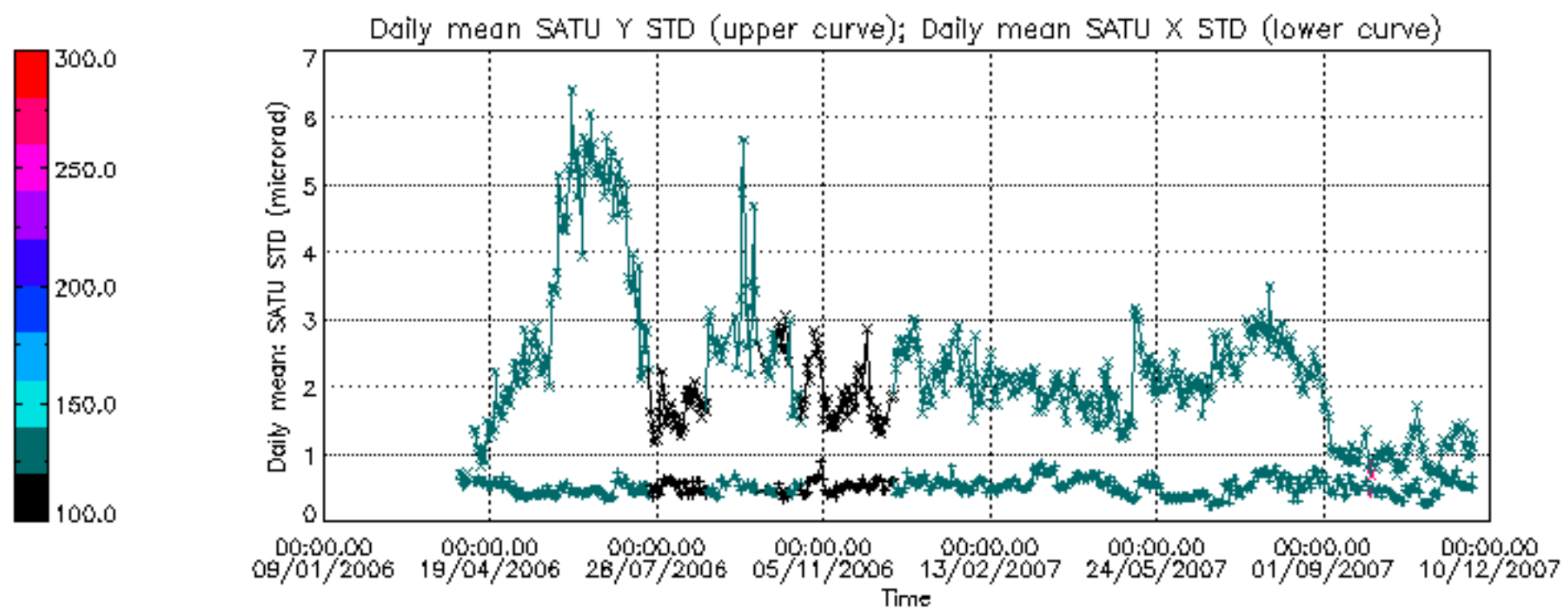


Tangent altitude at which the star is lost









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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
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 6; 1138.9; 01-NOV-2007 00:36:29; Dark ; 39.5; 157; The1Eri ; 2.91; 9300;occ; 79; 0;29644
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 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
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 14; 4009.0; 01-NOV-2007 01:24:19; Bright; 56.0; 82; 48Bet UMa ; 2.37; 10600;occ; 112; 0;29644
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 3; 213.0; 01-NOV-2007 02:01:39; Dark ; 42.0; 41; Eps Car ; 1.86; 4100;occ; 84; 0;29645
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 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
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26; 5204.0; 30-NOV-2007 23:20:28; Bright; 39.0; 15; 67Alp Vir ; 0.98; 28000;occ; 78; 0;30072
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3; -416.3; 30-NOV-2007 23:27:23; Dark ; 38.0; 123; Iot Cen ; 2.75; 10200;occ; 76; 0;30072
4; -145.8; 30-NOV-2007 23:31:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30072
5; -47.0; 30-NOV-2007 23:33:32; Dark ; 42.0; 26; Gam Cru ; 1.62; 2900;occ; 84; 0;30072
6; 82.4; 30-NOV-2007 23:35:42; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;30073
7; 201.9; 30-NOV-2007 23:37:41; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;30073
8; 369.2; 30-NOV-2007 23:40:29; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30073
9; 481.0; 30-NOV-2007 23:42:20; Dark ; 44.0; 41; Eps Car ; 1.86; 4100;occ; 88; 0;30073
10; 803.3; 30-NOV-2007 23:47:43; Dark ; 58.0; 2; Alp Car ; -0.74; 7000;occ; 116; 0;30073
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12; 1980.2; 01-DEC-2007 00:07:20; Dark ; 40.5; 94; 92Alp Cet ; 2.53; 3100;occ; 81; 0;30073
13; 2330.1; 01-DEC-2007 00:13:09; Bright; 37.5; 146; 25Eta Tau ; 2.87; 15200;occ; 75; 0;30073
14; 2472.6; 01-DEC-2007 00:15:32; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;30073
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16; 2739.7; 01-DEC-2007 00:19:59; Bright; 35.5; 175; 39Del Per ; 3.01; 19400;occ; 71; 0;30073
17; 2818.8; 01-DEC-2007 00:21:18; Bright; 34.5; 160; 23Gam Per ; 2.93; 4700;occ; 69; 0;30073
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23; 4644.1; 01-DEC-2007 00:51:43; Bright; 33.5; 3; 16Alp Boo ; -0.05; 4250;occ; 67; 0;30073
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