

GOMOS Daily Report 25-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	27NOV2007 05:41:40
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (25NOV2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (26NOV2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	48
Nb of prods with errors	0

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

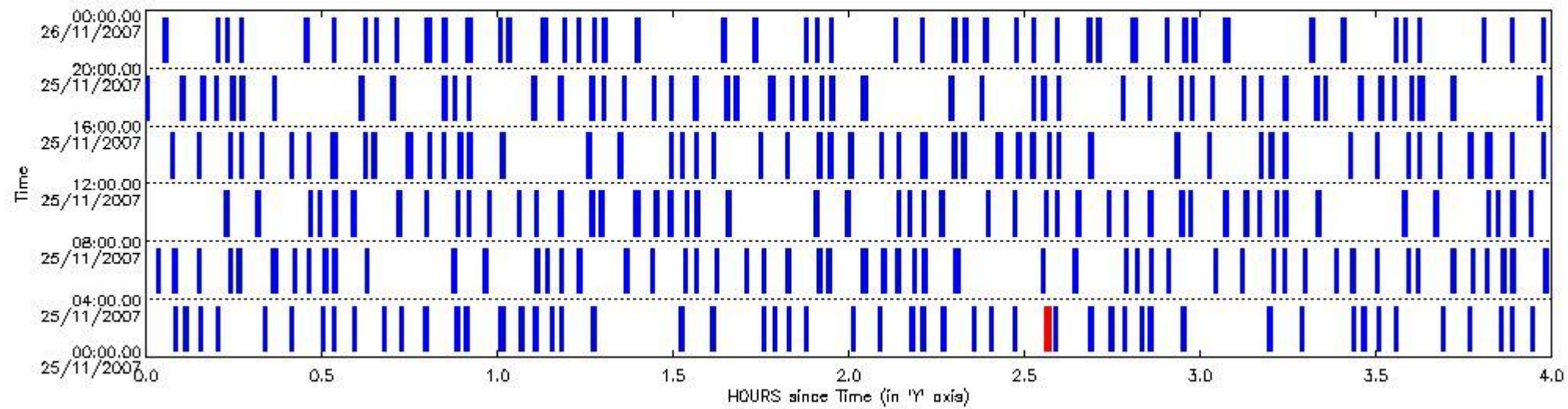
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

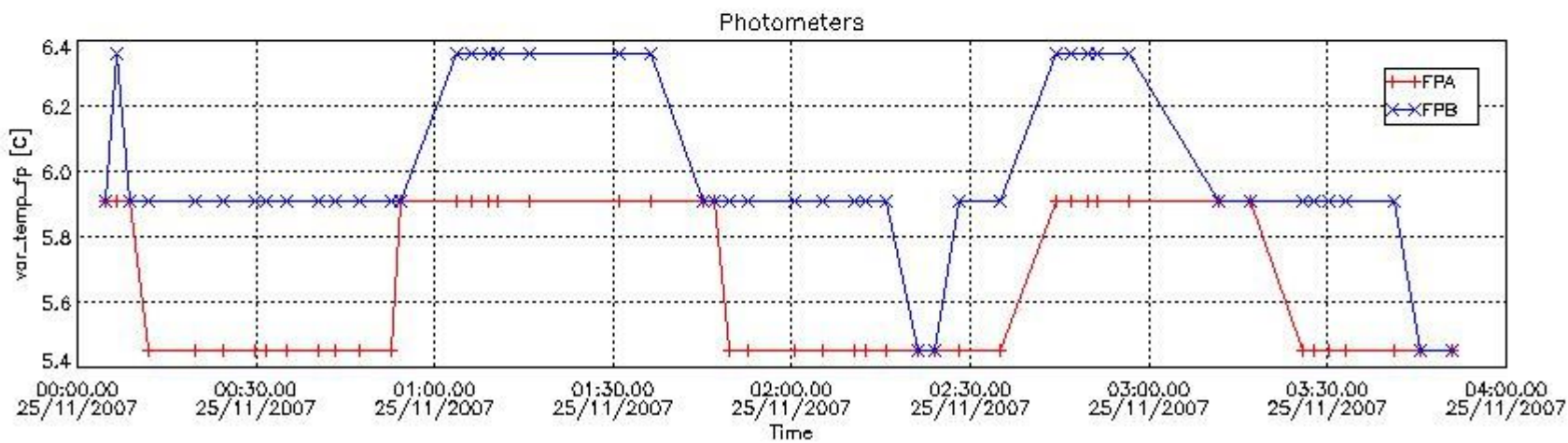
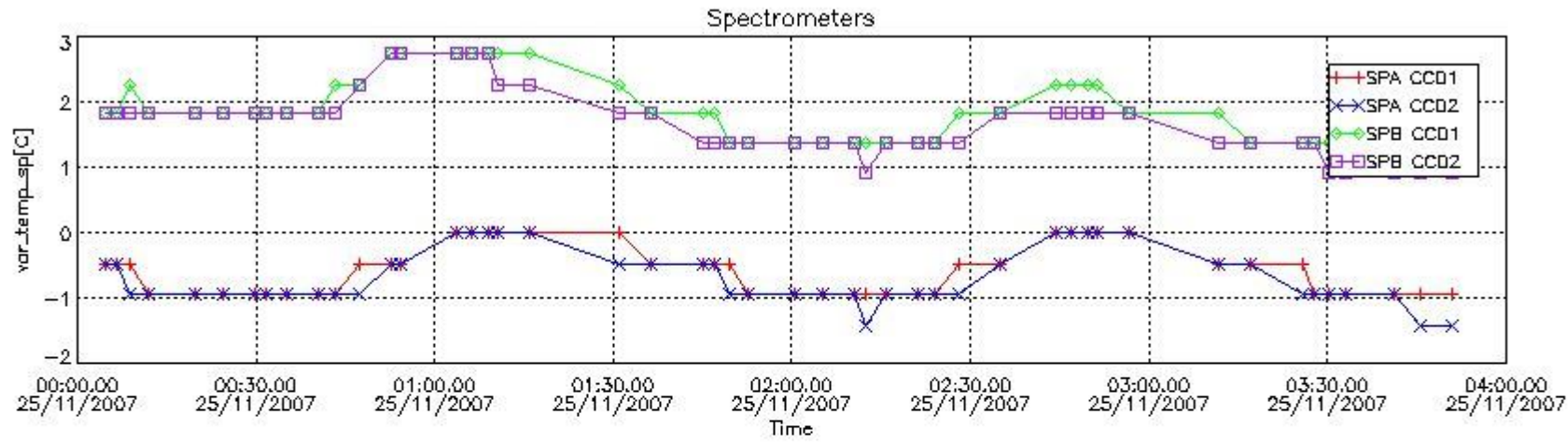
UTC start time	Star name	Star ID	Orbit
25-NOV-2007 02:33:21	4GamCrv	100	29988

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_1PNPDE20071125_000438_000000352063_00374_29987_0921.N1	25-NOV-2007 00:04:38	Bright	34.500	173	4Bet Tri	3.0040	8900.0	69	29987	No
2	GOM_TRA_1PNPDE20071125_000625_000000372063_00374_29987_0922.N1	25-NOV-2007 00:06:25	Bright	37.000	79	26Bet Per	2.3100	13100.	74	29987	No
3	GOM_TRA_1PNPDE20071125_000852_000000372063_00374_29987_0923.N1	25-NOV-2007 00:08:52	Bright	37.000	175	39Del Per	3.0100	19400.	74	29987	No
4	GOM_TRA_1PNPDE20071125_001153_000000332063_00374_29987_0924.N1	25-NOV-2007 00:11:53	Bright	33.000	110	37Del Cas	2.6780	8900.0	66	29987	No
5	GOM_TRA_1PNPDE20071125_001952_000000332063_00374_29987_0925.N1	25-NOV-2007 00:19:52	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	29987	No
6	GOM_TRA_1PNPDE20071125_002427_000000372063_00374_29987_0926.N1	25-NOV-2007 00:24:27	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	29987	No
7	GOM_TRA_1PNPDE20071125_002951_000000372063_00374_29987_0927.N1	25-NOV-2007 00:29:51	Bright	37.000	32	77Eps UMa	1.7630	11000.	74	29987	No
8	GOM_TRA_1PNPDE20071125_003144_000000362063_00374_29987_0928.N1	25-NOV-2007 00:31:44	Bright	36.000	39	85Eta UMa	1.8540	24000.	72	29987	No
9	GOM_TRA_1PNPDE20071125_003512_000000382063_00374_29987_0929.N1	25-NOV-2007 00:35:12	Bright	37.500	152	12Alp2CVn	2.8900	11000.	75	29987	No
10	GOM_TRA_1PNPDE20071125_004026_000000342063_00374_29987_0930.N1	25-NOV-2007 00:40:26	Bright	33.500	111	8Eta Boo	2.6800	6000.0	67	29987	No

11	GOM_TRA_1PNPDE20071125_004319_000000362063_00374_29987_0931.N1	25-NOV-2007 00:43:19	Bright	36.000	138	47Eps Vir	2.8280	4700.0	72	29987	No
12	GOM_TRA_1PNPDE20071125_004723_000000382063_00374_29987_0932.N1	25-NOV-2007 00:47:23	Bright	37.500	121	29Gam Vir	2.7400	7200.0	75	29987	No
13	GOM_TRA_1PNPDE20071125_005244_000000412063_00374_29987_1055.N1	25-NOV-2007 00:52:44	Twilight	40.500	100	4Gam Crv	2.5800	13100.	81	29987	No
14	GOM_TRA_1PNPDE20071125_005418_000000472063_00374_29987_1056.N1	25-NOV-2007 00:54:18	Twilight	46.500	171	2Eps Crv	3.0010	4250.0	93	29987	No
15	GOM_TRA_1PNPDE20071125_010345_000000432063_00375_29988_1057.N1	25-NOV-2007 01:03:45	Dark	42.500	113	Mu Vel	2.6920	5000.0	85	29988	No
16	GOM_TRA_1PNPDE20071125_010610_000000382063_00375_29988_1058.N1	25-NOV-2007 01:06:10	Dark	37.500	124	The Car	2.7640	30000.	75	29988	No
17	GOM_TRA_1PNPDE20071125_010901_000000382063_00375_29988_1059.N1	25-NOV-2007 01:09:01	Dark	37.500	29	Bet Car	1.6720	10200.	75	29988	No
18	GOM_TRA_1PNPDE20071125_011034_000000422063_00375_29988_1060.N1	25-NOV-2007 01:10:34	Dark	42.000	41	Eps Car	1.8600	4100.0	84	29988	No
19	GOM_TRA_1PNPDE20071125_011603_000000482063_00375_29988_1061.N1	25-NOV-2007 01:16:03	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	29988	No
20	GOM_TRA_1PNPDE20071125_013056_000000452063_00375_29988_1062.N1	25-NOV-2007 01:30:56	Straylight	44.500	165	34Gam Eri	2.9500	3200.0	89	29988	No
21	GOM_TRA_1PNPDE20071125_013620_000000422063_00375_29988_1063.N1	25-NOV-2007 01:36:20	Twilight	42.000	94	92Alp Cet	2.5260	3100.0	84	29988	No
22	GOM_TRA_1PNPDE20071125_014514_000000362063_00375_29988_1064.N1	25-NOV-2007 01:45:14	Bright	35.500	173	4Bet Tri	3.0040	8900.0	71	29988	No
23	GOM_TRA_1PNPDE20071125_014701_000000372063_00375_29988_1065.N1	25-NOV-2007 01:47:01	Bright	37.000	79	26Bet Per	2.3100	13100.	74	29988	No
24	GOM_TRA_1PNPDE20071125_014927_000000382063_00375_29988_1066.N1	25-NOV-2007 01:49:27	Bright	37.500	175	39Del Per	3.0100	19400.	75	29988	No
25	GOM_TRA_1PNPDE20071125_015229_000000352063_00375_29988_1067.N1	25-NOV-2007 01:52:29	Bright	34.500	110	37Del Cas	2.6780	8900.0	69	29988	No
26	GOM_TRA_1PNPDE20071125_020028_000000342063_00375_29988_1068.N1	25-NOV-2007 02:00:28	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	29988	No
27	GOM_TRA_1PNPDE20071125_020503_000000362063_00375_29988_1245.N1	25-NOV-2007 02:05:03	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	29988	No
28	GOM_TRA_1PNPDE20071125_021027_000000392063_00375_29988_1246.N1	25-NOV-2007 02:10:27	Bright	39.000	32	77Eps UMa	1.7630	11000.	78	29988	No
29	GOM_TRA_1PNPDE20071125_021220_000000372063_00375_29988_1247.N1	25-NOV-2007 02:12:20	Bright	37.000	39	85Eta UMa	1.8540	24000.	74	29988	No
30	GOM_TRA_1PNPDE20071125_021548_000000352063_00375_29988_1248.N1	25-NOV-2007 02:15:48	Bright	35.000	152	12Alp2CVn	2.8900	11000.	70	29988	No
31	GOM_TRA_1PNPDE20071125_022102_000000332063_00375_29988_1249.N1	25-NOV-2007 02:21:02	Bright	33.000	111	8Eta Boo	2.6800	6000.0	66	29988	No
32	GOM_TRA_1PNPDE20071125_022355_000000422063_00375_29988_1250.N1	25-NOV-2007 02:23:55	Bright	42.000	138	47Eps Vir	2.8280	4700.0	84	29988	No
33	GOM_TRA_1PNPDE20071125_022759_000000392063_00375_29988_1251.N1	25-NOV-2007 02:27:59	Bright	39.000	121	29Gam Vir	2.7400	7200.0	78	29988	No
34	GOM_TRA_1PNPDE20071125_023455_000000442063_00375_29988_1252.N1	25-NOV-2007 02:34:55	Twilight	44.000	171	2Eps Crv	3.0010	4250.0	88	29988	No
35	GOM_TRA_1PNPDE20071125_024422_000000412063_00376_29989_1253.N1	25-NOV-2007 02:44:22	Dark	41.000	113	Mu Vel	2.6920	5000.0	82	29989	No
36	GOM_TRA_1PNPDE20071125_024647_000000382063_00376_29989_1254.N1	25-NOV-2007 02:46:47	Dark	38.000	124	The Car	2.7640	30000.	76	29989	No
37	GOM_TRA_1PNPDE20071125_024937_000000392063_00376_29989_1255.N1	25-NOV-2007 02:49:37	Dark	39.000	29	Bet Car	1.6720	10200.	78	29989	No
38	GOM_TRA_1PNPDE20071125_025111_000000442063_00376_29989_1256.N1	25-NOV-2007 02:51:11	Dark	43.500	41	Eps Car	1.8600	4100.0	87	29989	No
39	GOM_TRA_1PNPDE20071125_025639_000000492063_00376_29989_1257.N1	25-NOV-2007 02:56:39	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	29989	No
40	GOM_TRA_1PNPDE20071125_031132_000000472063_00376_29989_1258.N1	25-NOV-2007 03:11:32	Straylight	47.000	165	34Gam Eri	2.9500	3200.0	94	29989	No
41	GOM_TRA_1PNPDE20071125_031657_000000442063_00376_29989_1259.N1	25-NOV-2007 03:16:57	Twilight	43.500	94	92Alp Cet	2.5260	3100.0	87	29989	No
42	GOM_TRA_1PNPDE20071125_032550_000000362063_00376_29989_1260.N1	25-NOV-2007 03:25:50	Bright	36.000	173	4Bet Tri	3.0040	8900.0	72	29989	No
43	GOM_TRA_1PNPDE20071125_032737_000000382063_00376_29989_1261.N1	25-NOV-2007 03:27:37	Bright	38.000	79	26Bet Per	2.3100	13100.	76	29989	No
44	GOM_TRA_1PNPDE20071125_033003_000000372063_00376_29989_1262.N1	25-NOV-2007 03:30:03	Bright	36.500	175	39Del Per	3.0100	19400.	73	29989	No
45	GOM_TRA_1PNPDE20071125_033305_000000352063_00376_29989_1263.N1	25-NOV-2007 03:33:05	Bright	35.000	110	37Del Cas	2.6780	8900.0	70	29989	No
46	GOM_TRA_1PNPDE20071125_034104_000000362063_00376_29989_1264.N1	25-NOV-2007 03:41:04	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	29989	No
47	GOM_TRA_1PNPDE20071125_034538_000000352063_00376_29989_1398.N1	25-NOV-2007 03:45:38	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	29989	No
48	GOM_TRA_1PNPDE20071125_035103_000000382063_00376_29989_1399.N1	25-NOV-2007 03:51:03	Bright	37.500	32	77Eps UMa	1.7630	11000.	75	29989	No

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



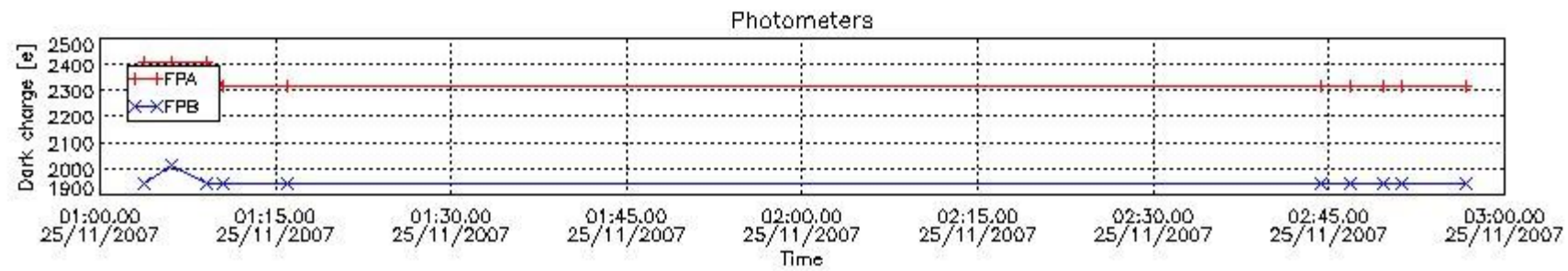
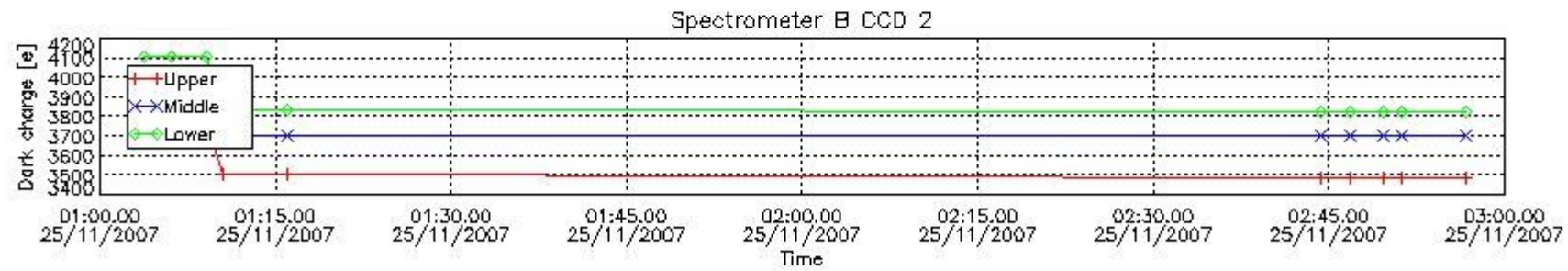
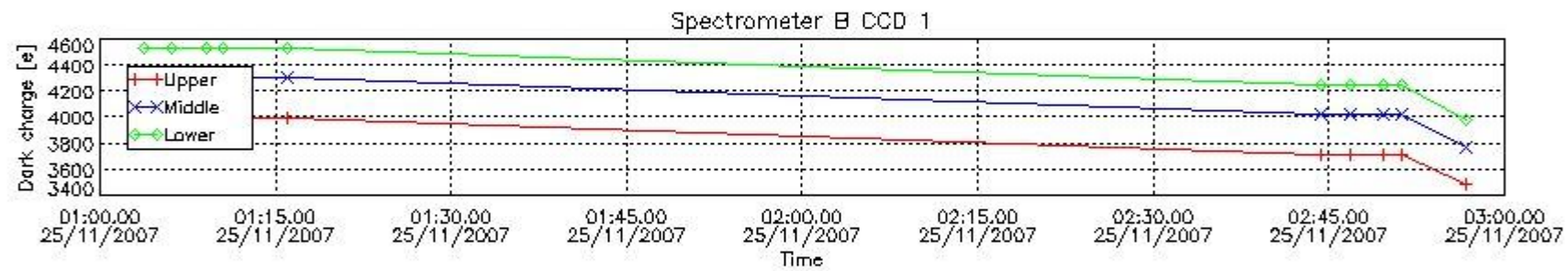
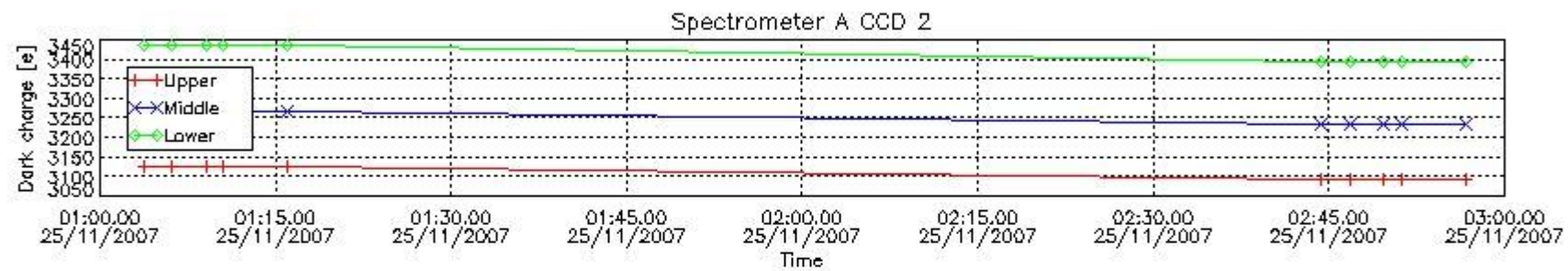
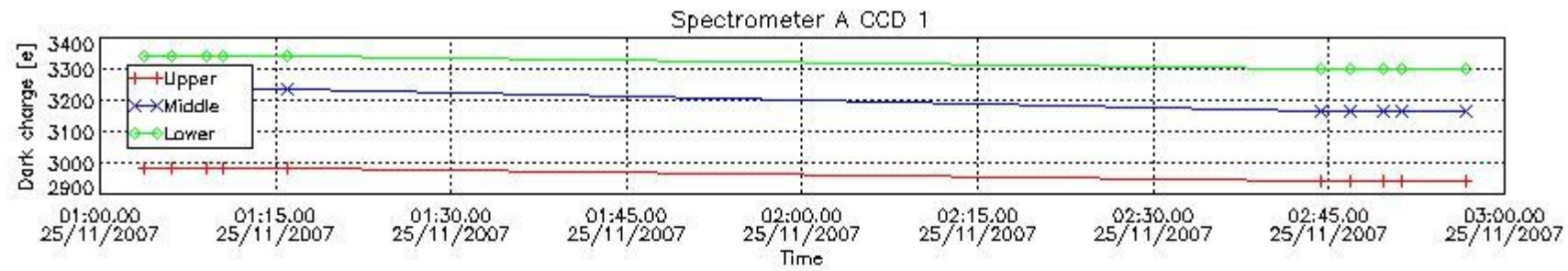
4. Overview of dark signal processing per product

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



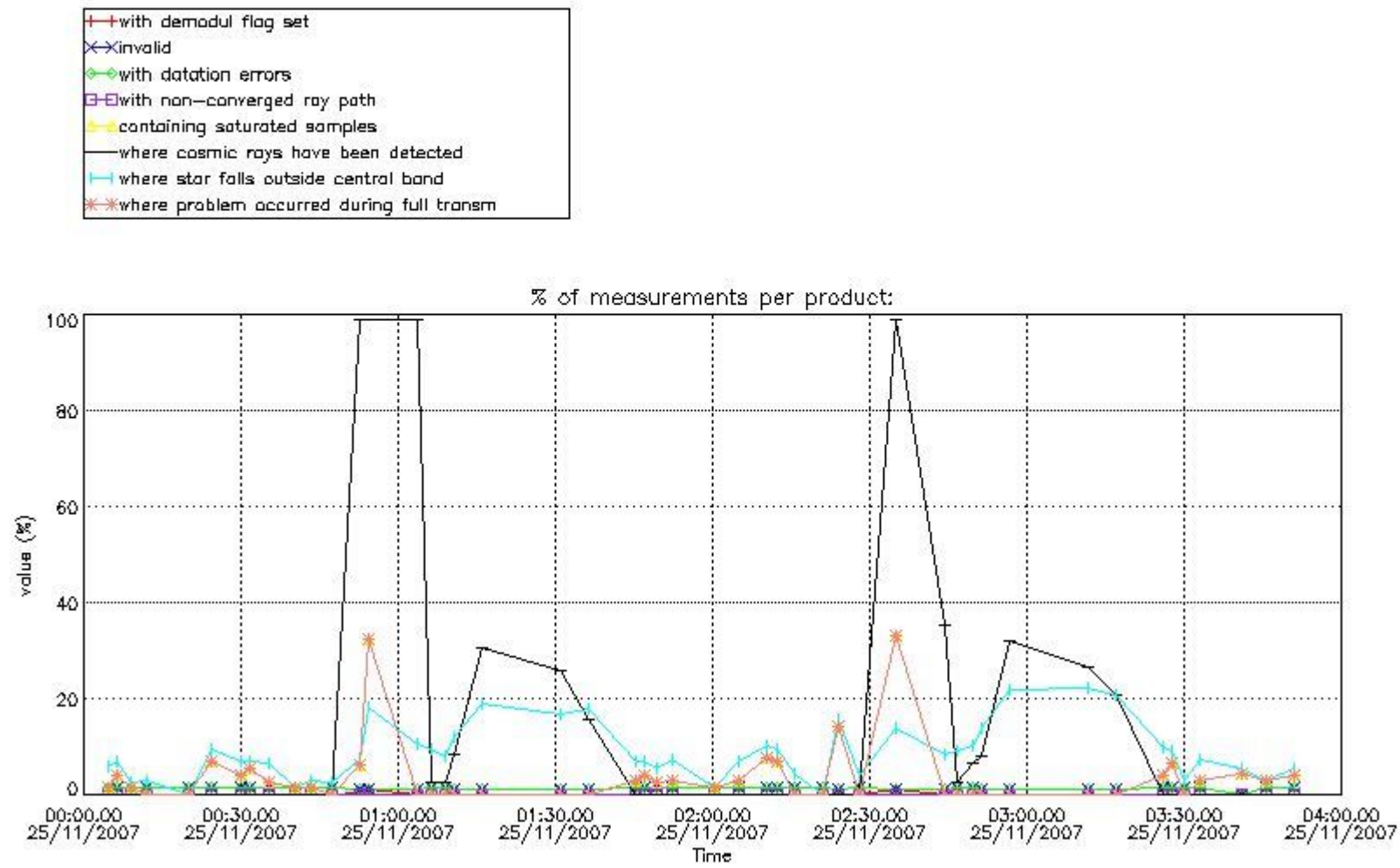
5. Demodulation flag and quality information monitoring

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.

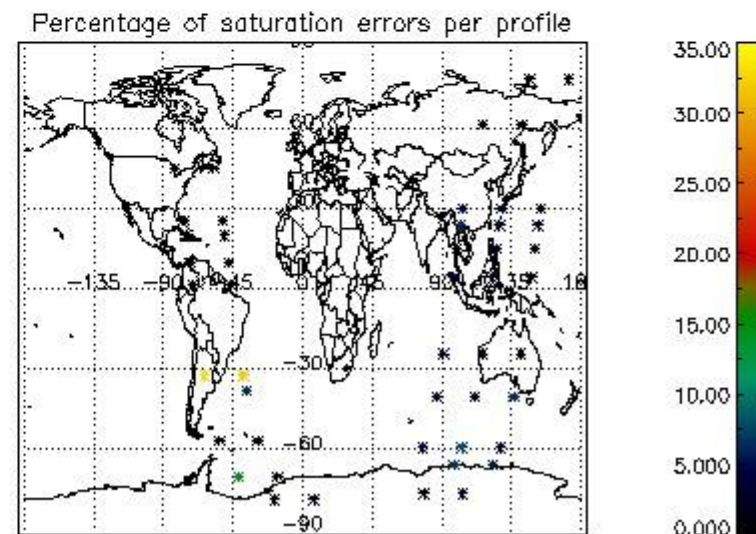
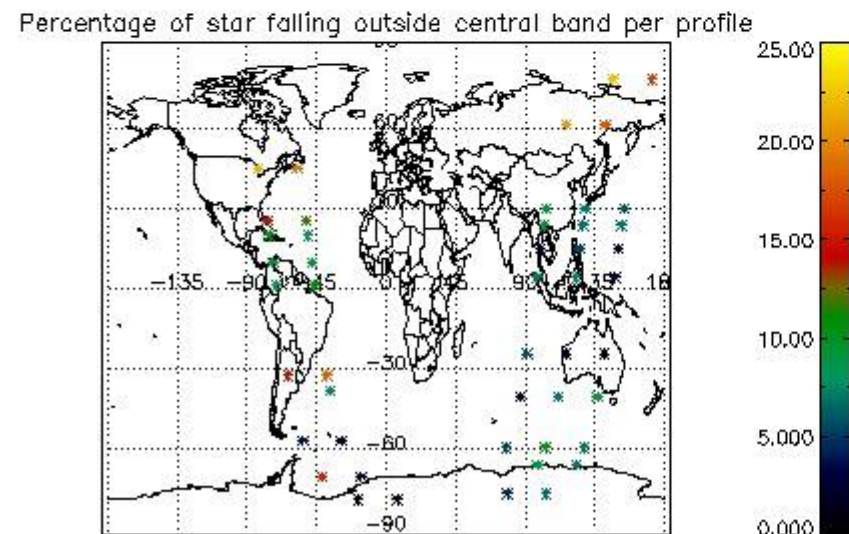
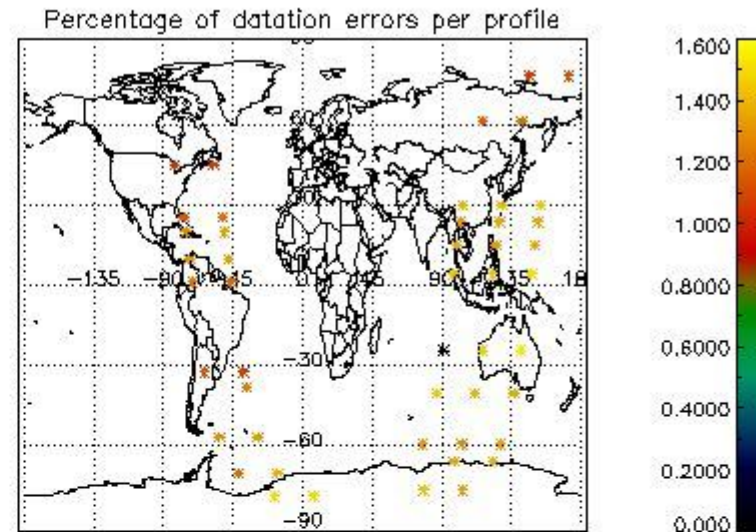
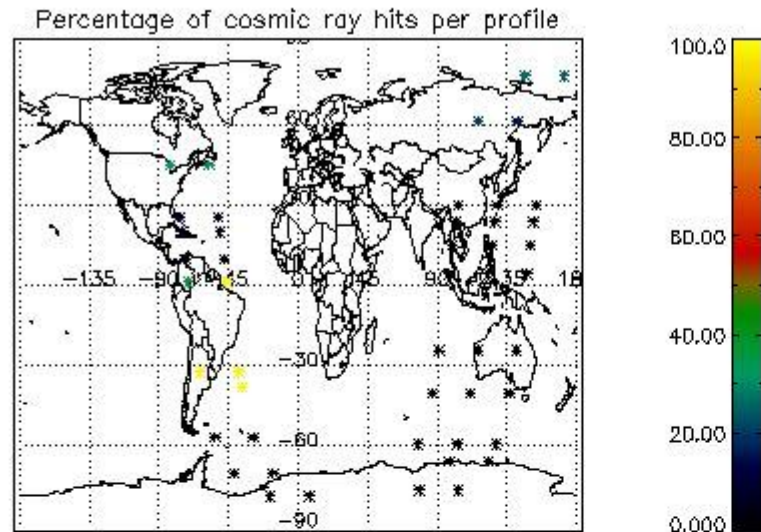
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	18.7500 %
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)



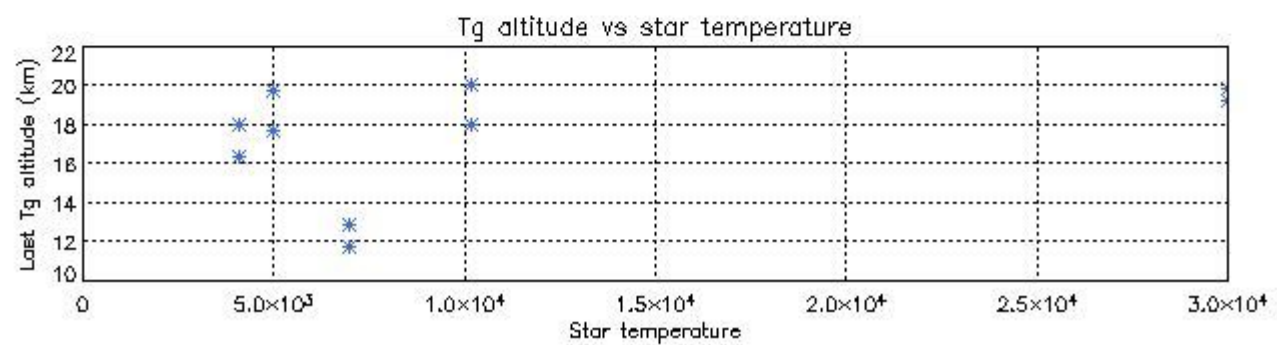
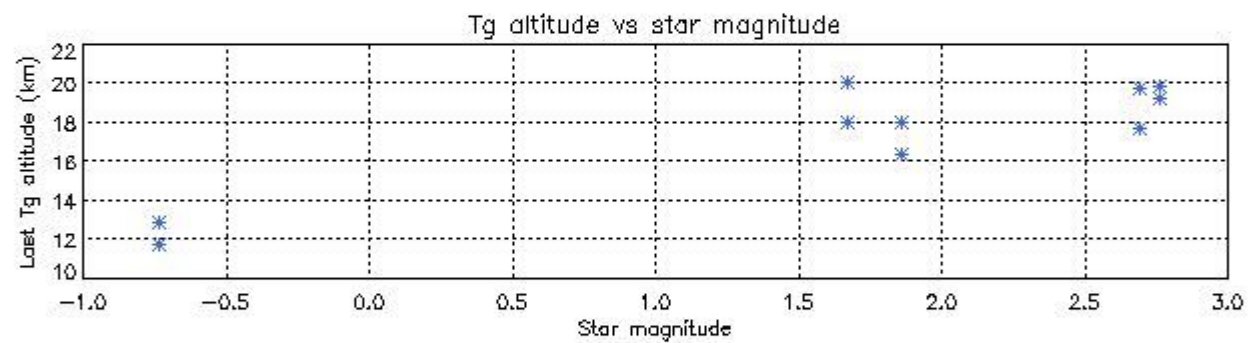
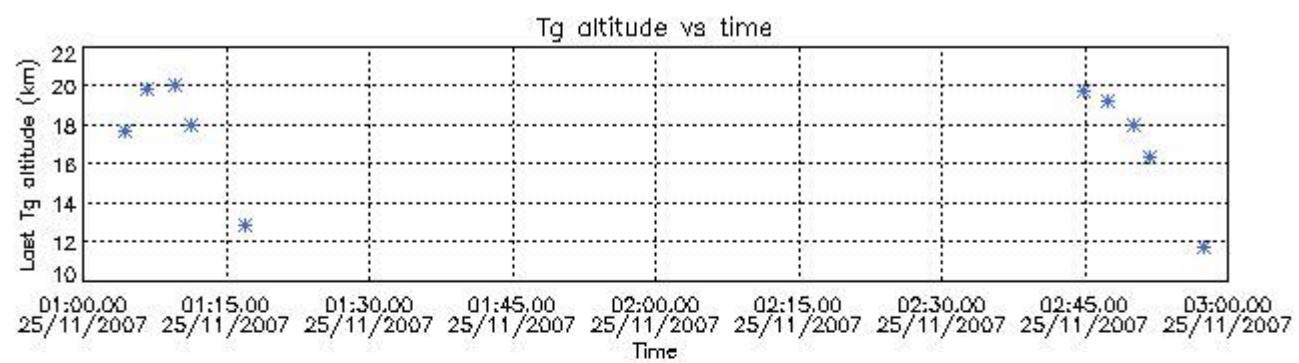
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.353	22.102	14.074
St. deviation:	2.9010	2.8967	1.6056
Maximum:	20.015	28.313	15.209
Minimum:	11.766	14.214	12.939
Number of data:	10.000	31.000	2.0000

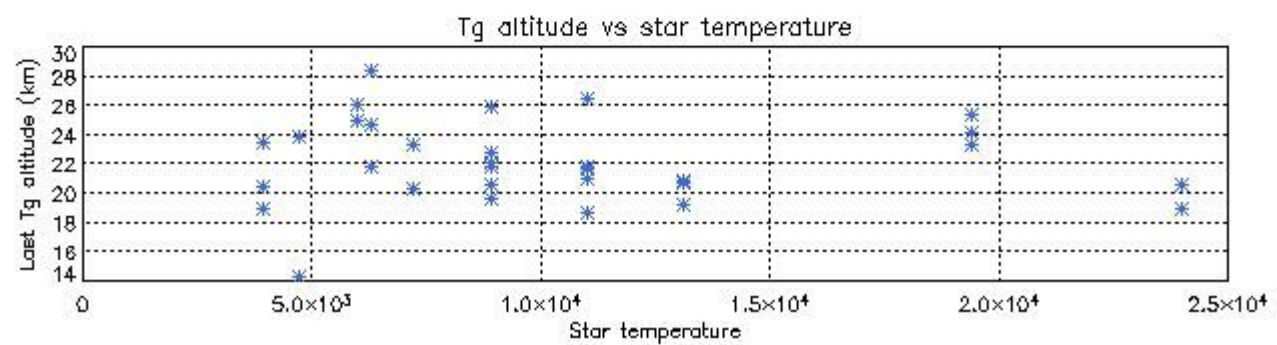
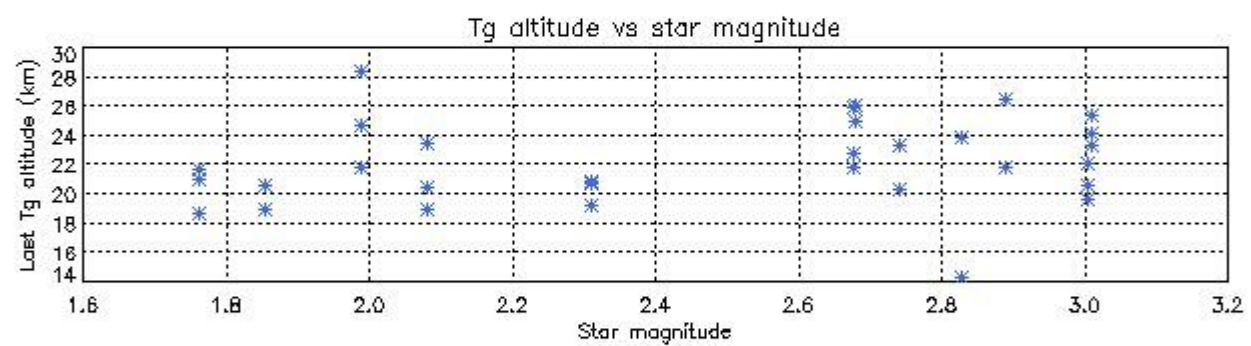
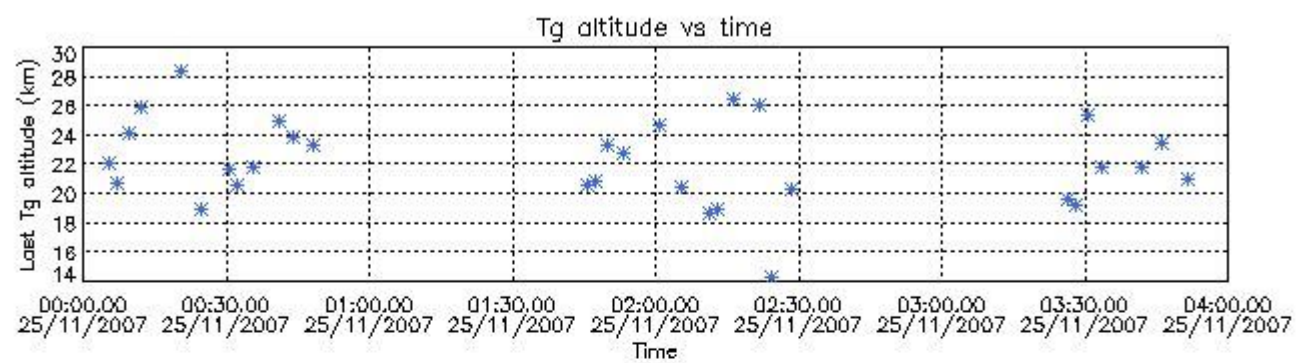
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



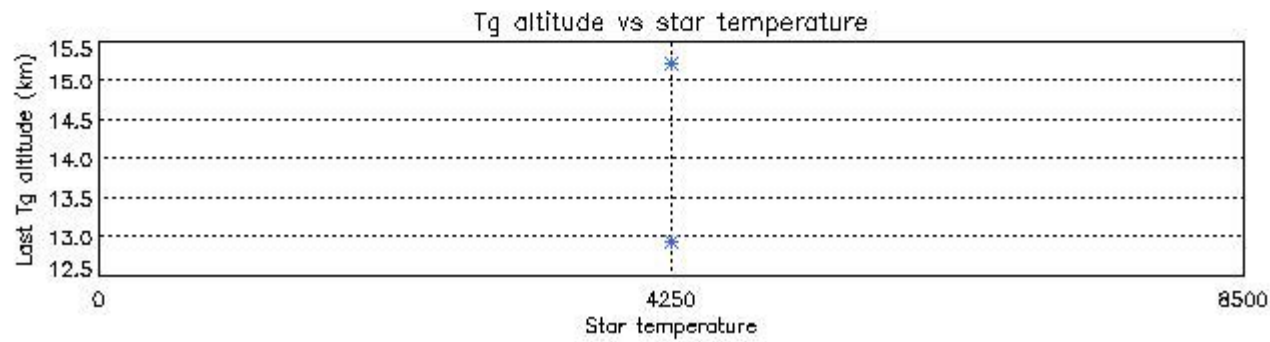
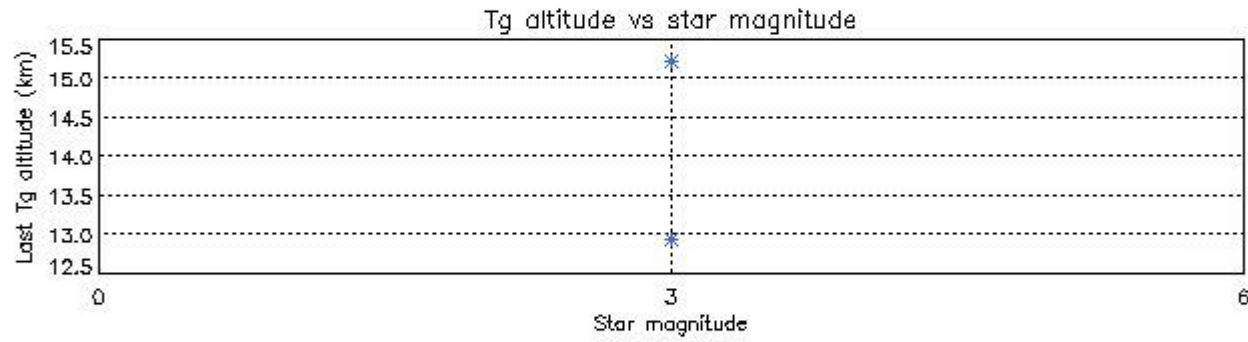
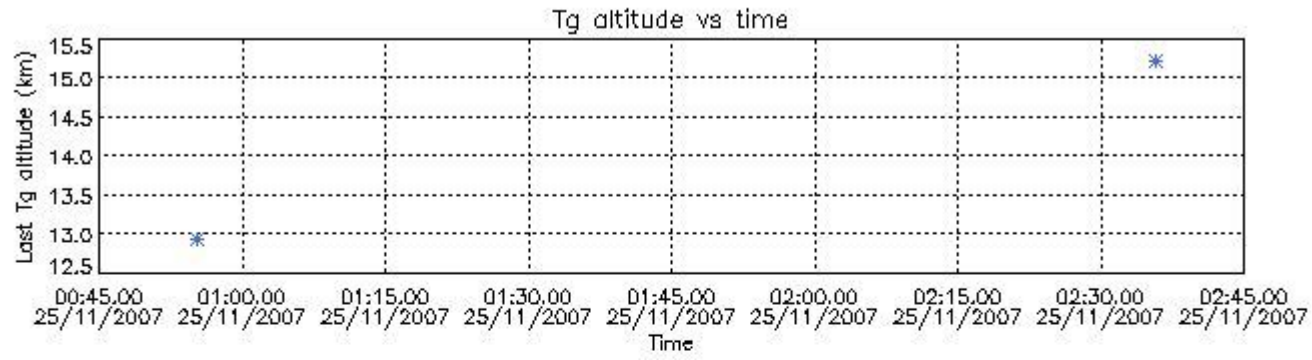
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

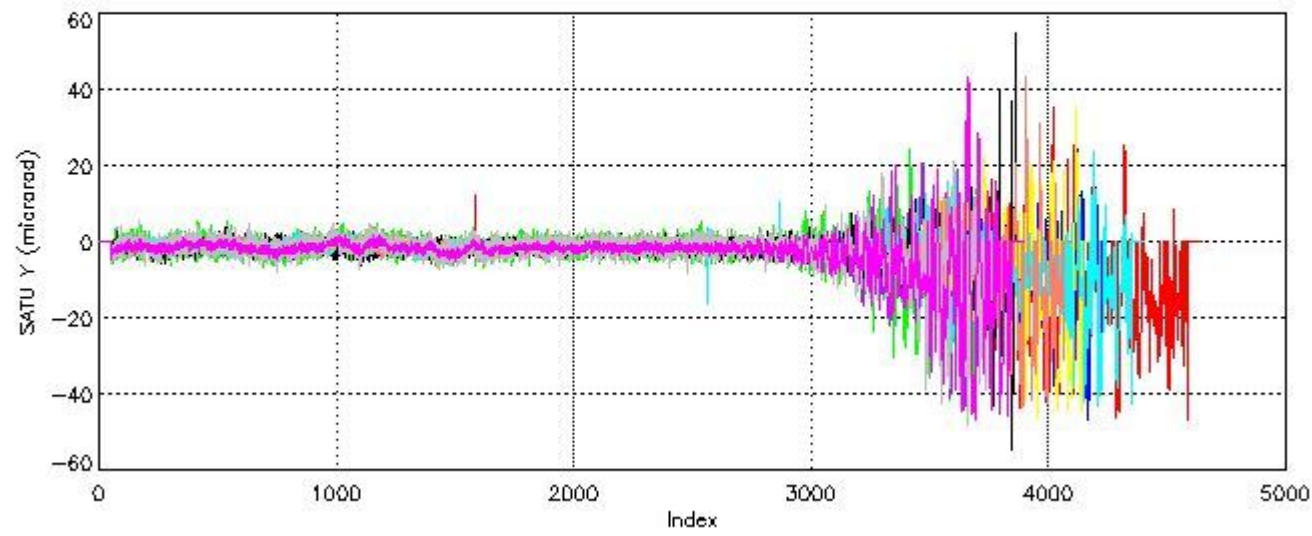
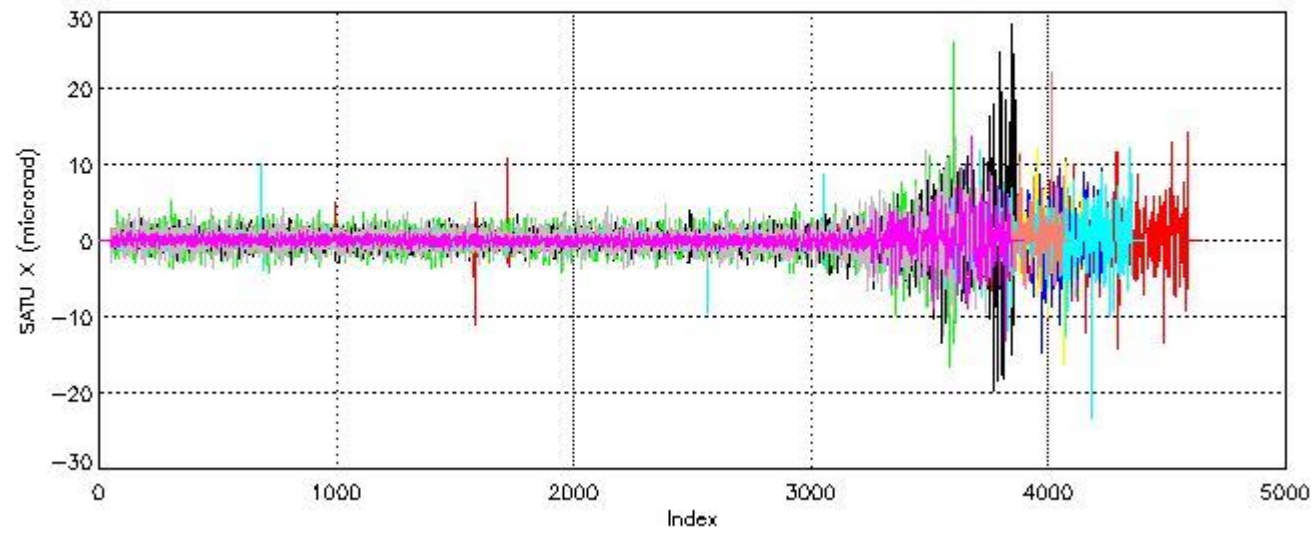


7. Star Acquisition and Tracking Unit (SATU)

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:	0.17140	-1.2649	0.068917	-1.2644
St. deviation:	0.52606	1.1258	0.95910	1.5941
Maximum:	5.2000	5.3000	6.1000	6.5000
Minimum:	-4.1000	-7.9000	-6.6000	-9.3000

Number of data:	9350.0	9350.0	25800.	25800.
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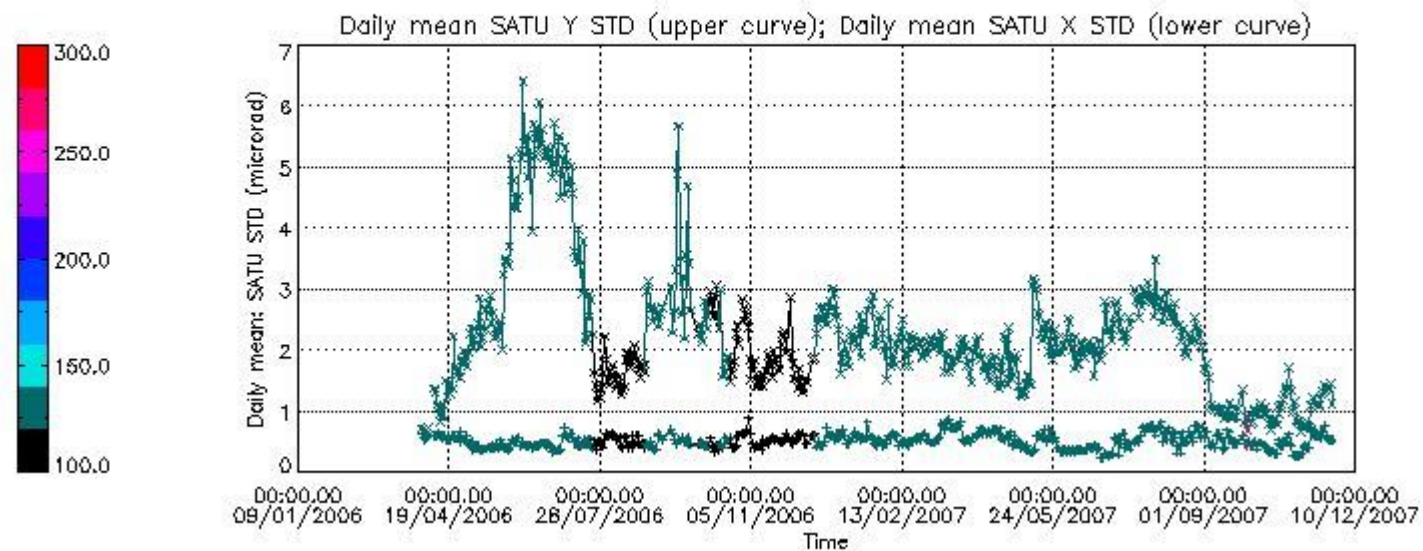
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

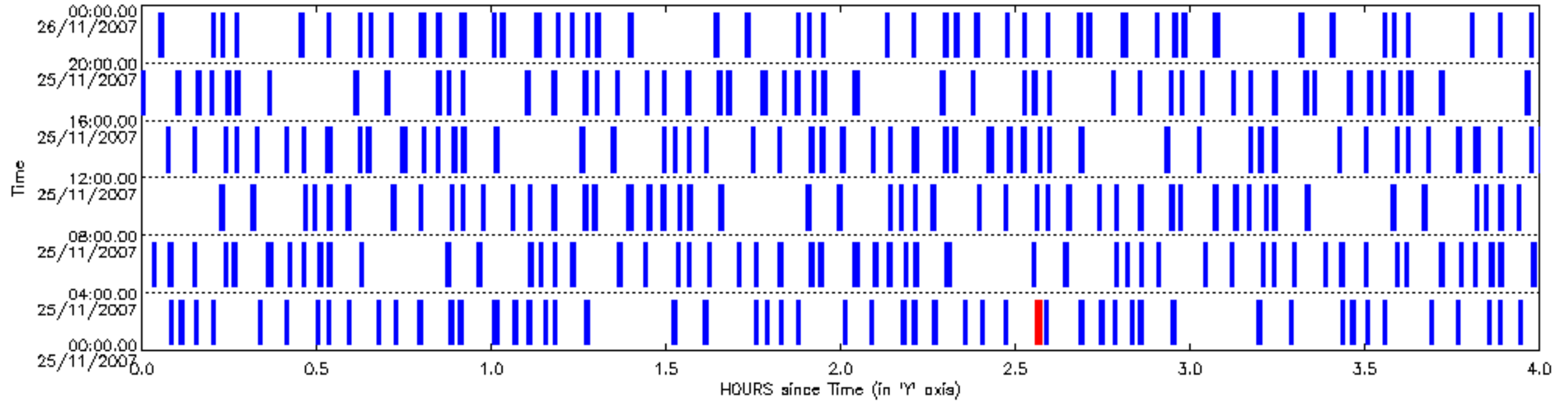
Lower curve: STD of SATU X axis

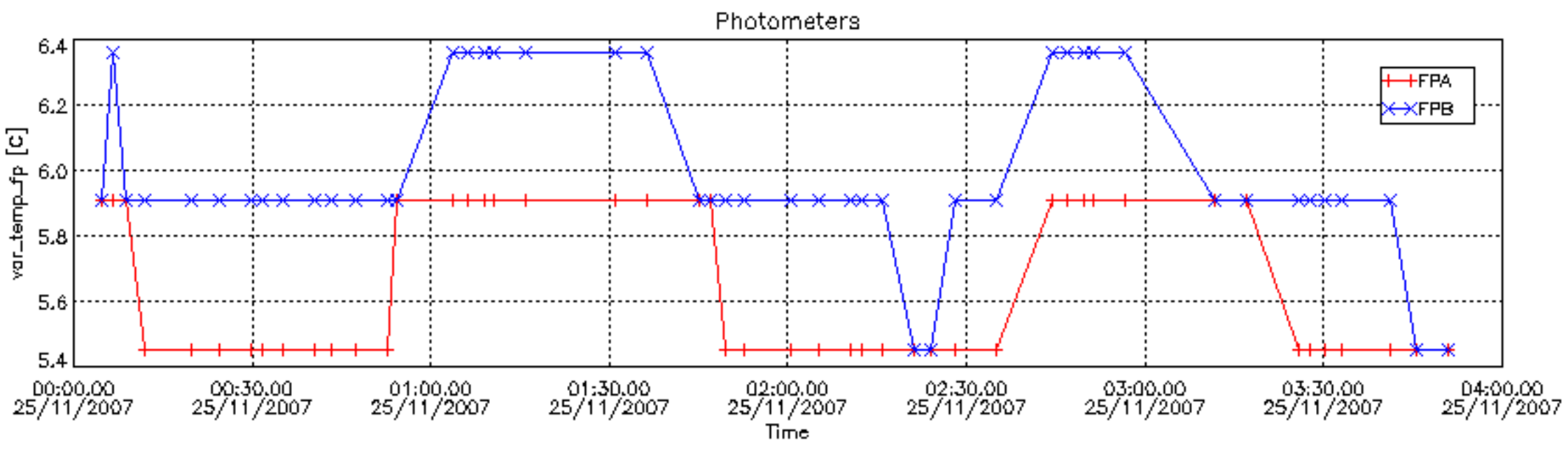
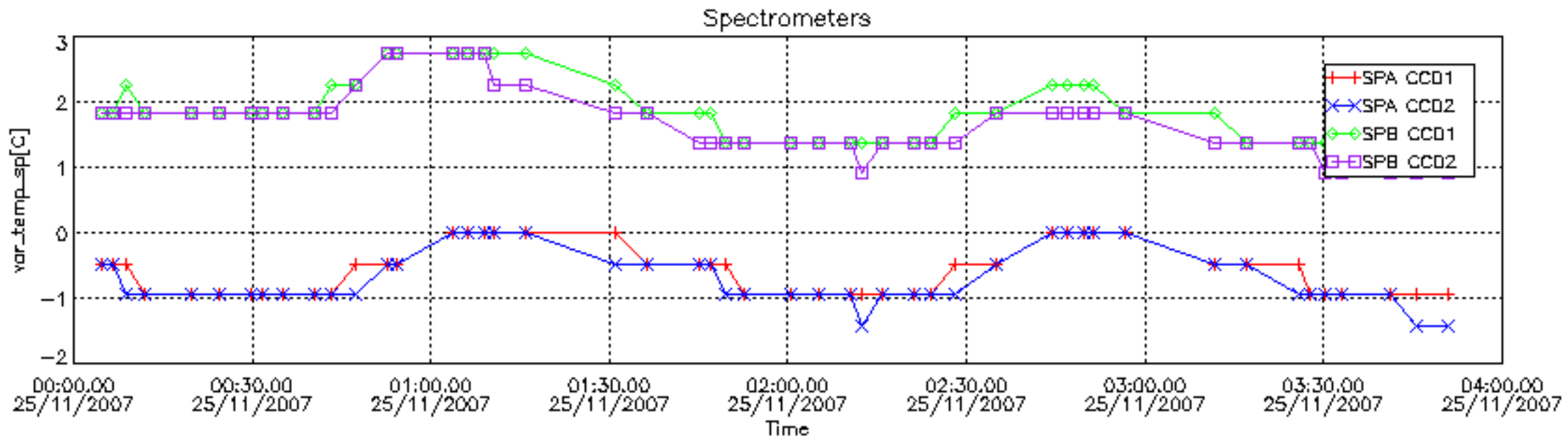


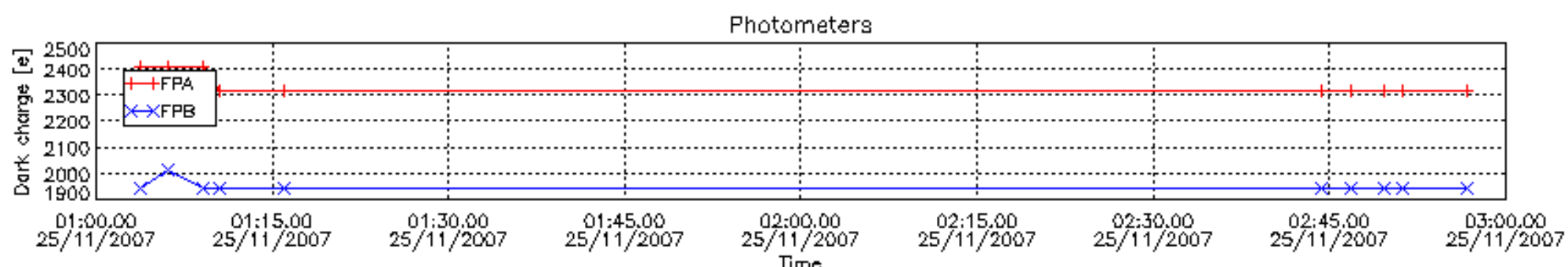
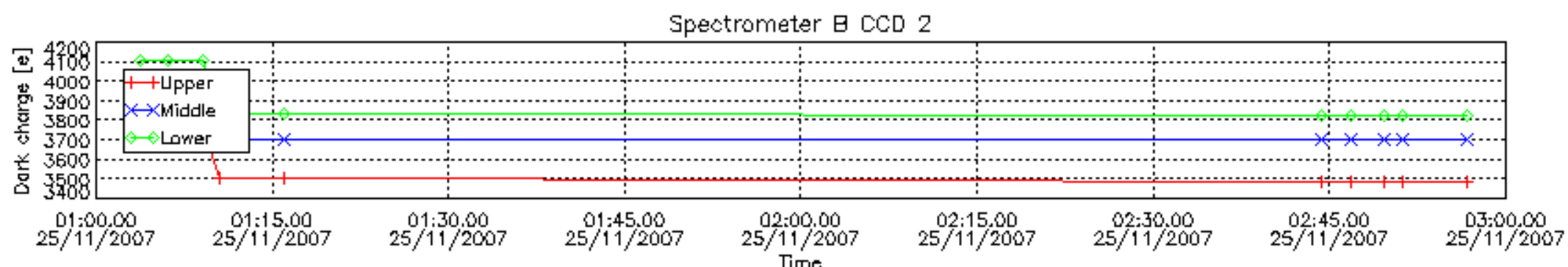
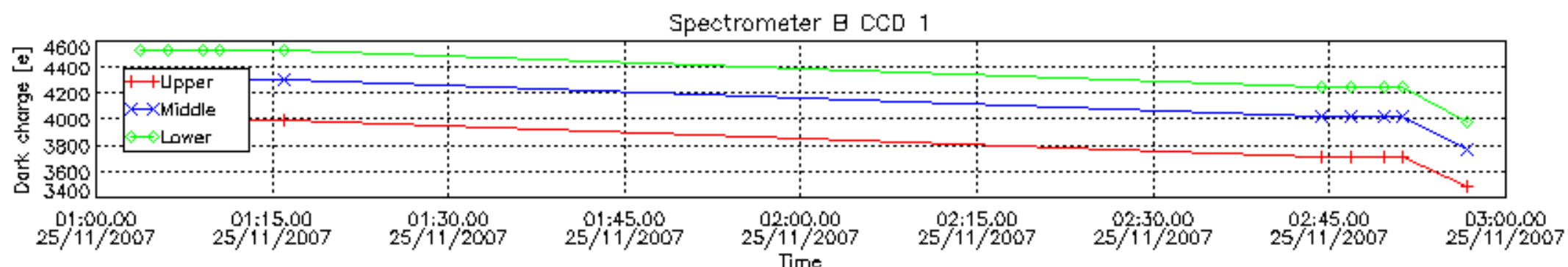
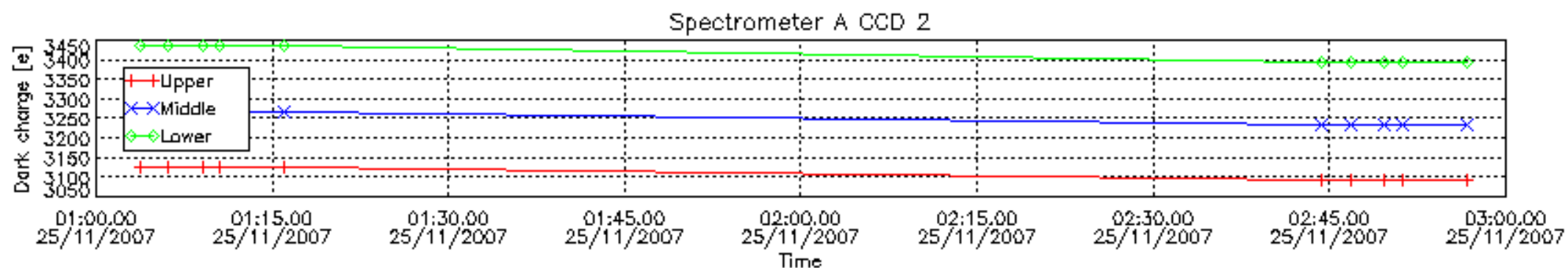
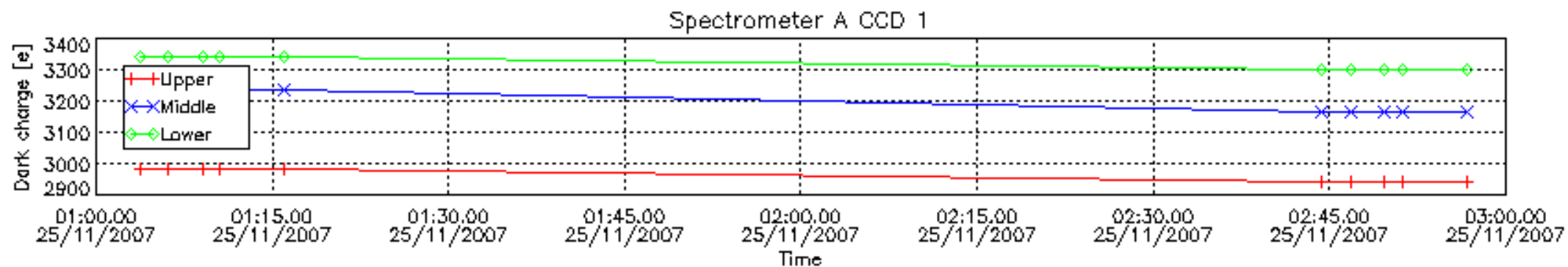
8. Auxiliary Data Files used for the production reported in section 2.4

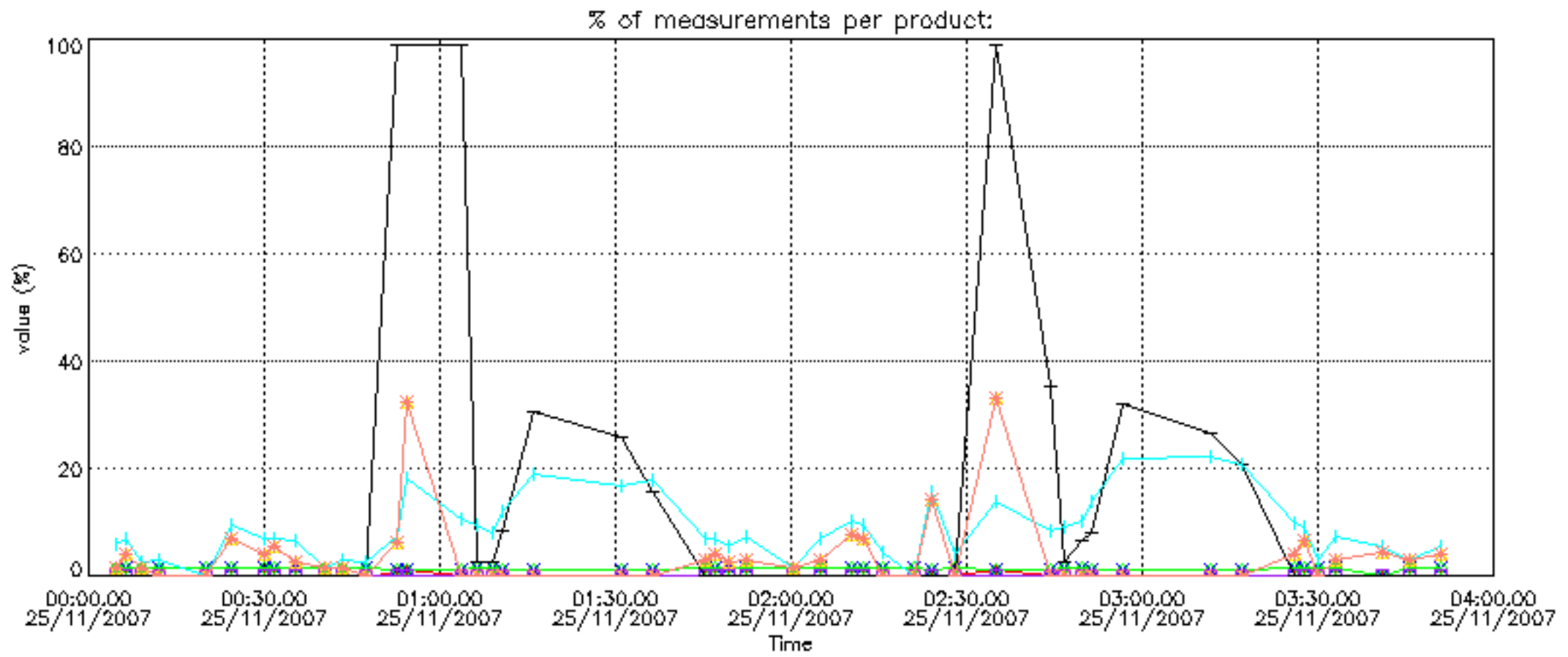
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	25-NOV-2007 00:04:38
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071123_091259_20071121_000000_20100101_000000	1	25-NOV-2007 00:04:38
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	25-NOV-2007 00:04:38
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	25-NOV-2007 00:04:38
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	25-NOV-2007 00:04:38
ECMWF_FILE	AUX_ECF_AXNECM20071124_063113_20071124_210000_20071125_090000	1	25-NOV-2007 00:04:38
ECMWF_FILE	AUX_ECF_AXNECM20071124_183111_20071125_030000_20071125_150000	47	25-NOV-2007 03:45:38
OPTIONAL_ECMWF_FILE	MISSING	1	25-NOV-2007 00:04:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071124_212413_000060572063_00372_29985_4626.N1	1	25-NOV-2007 00:04:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071124_231029_000057382063_00373_29986_4627.N1	13	25-NOV-2007 00:52:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071125_005126_000038262063_00374_29987_4628.N1	27	25-NOV-2007 02:05:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071125_020030_000057382063_00375_29988_4629.N1	47	25-NOV-2007 03:45:38

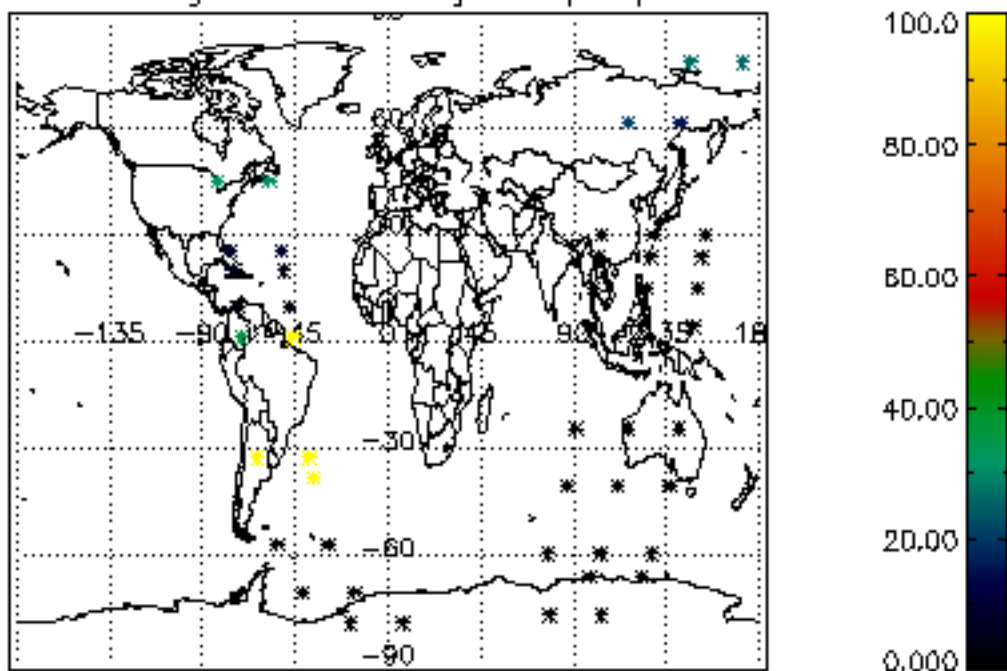




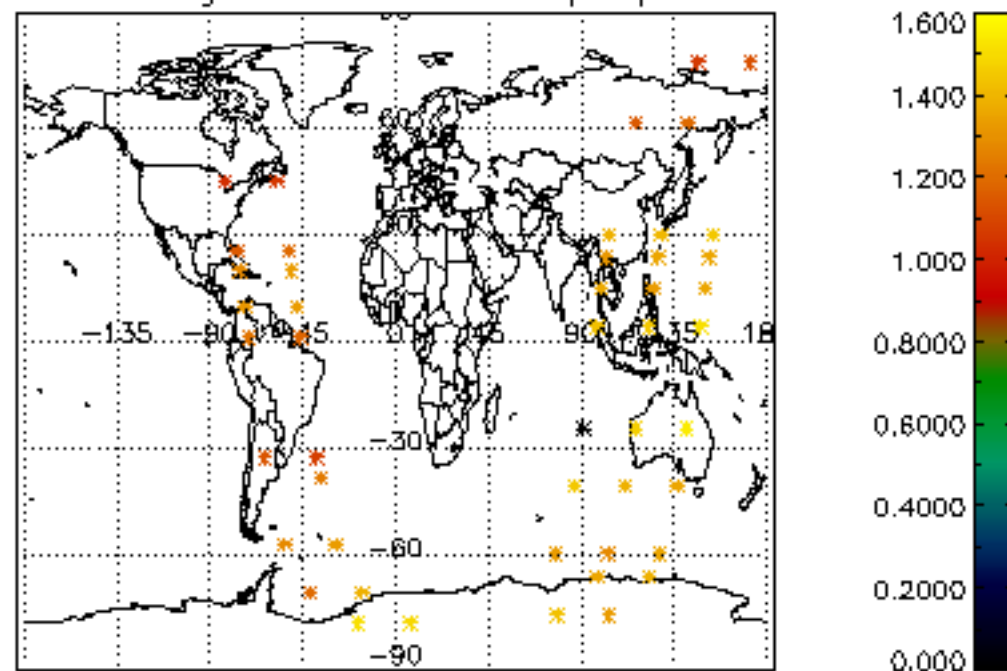




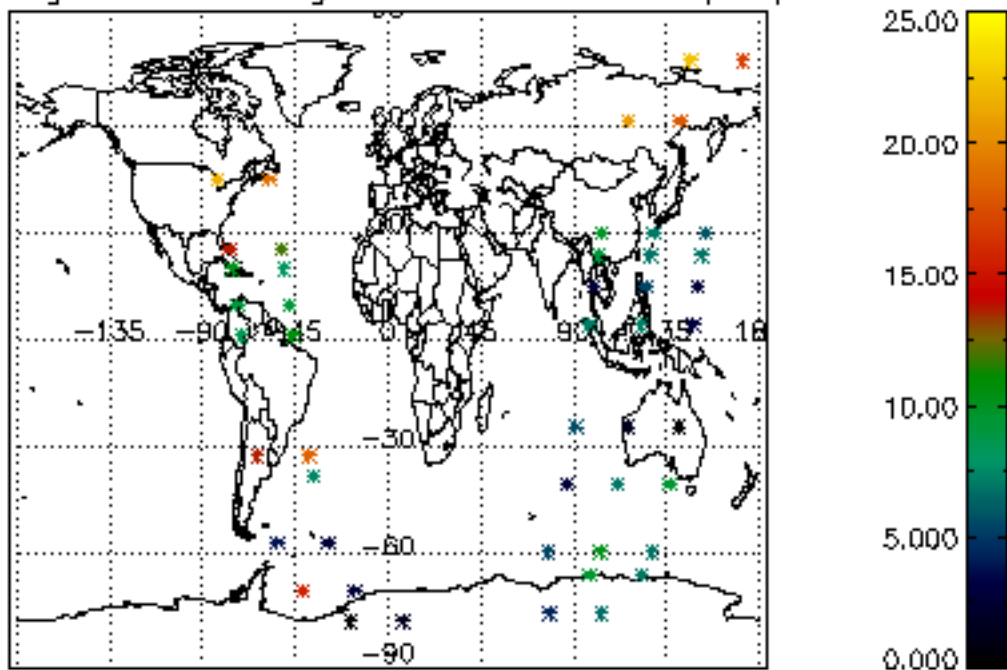
Percentage of cosmic ray hits per profile



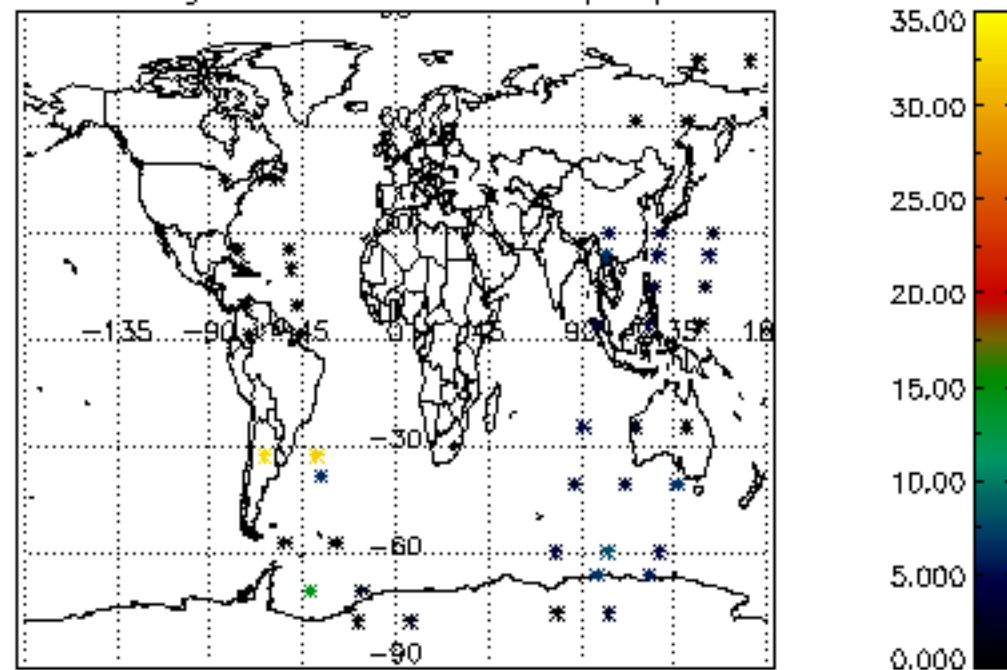
Percentage of datation errors per profile



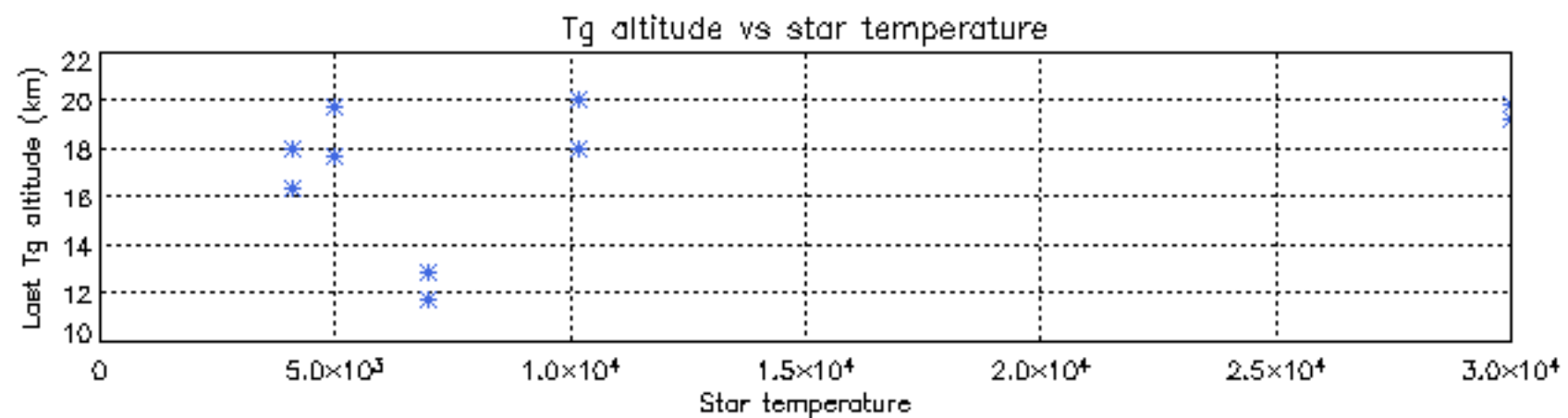
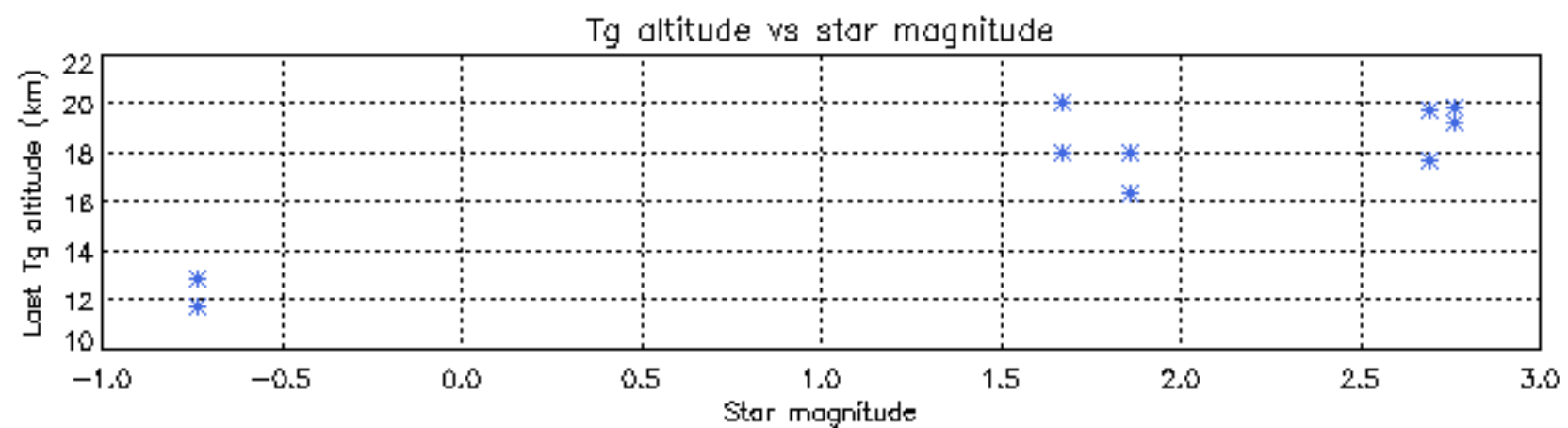
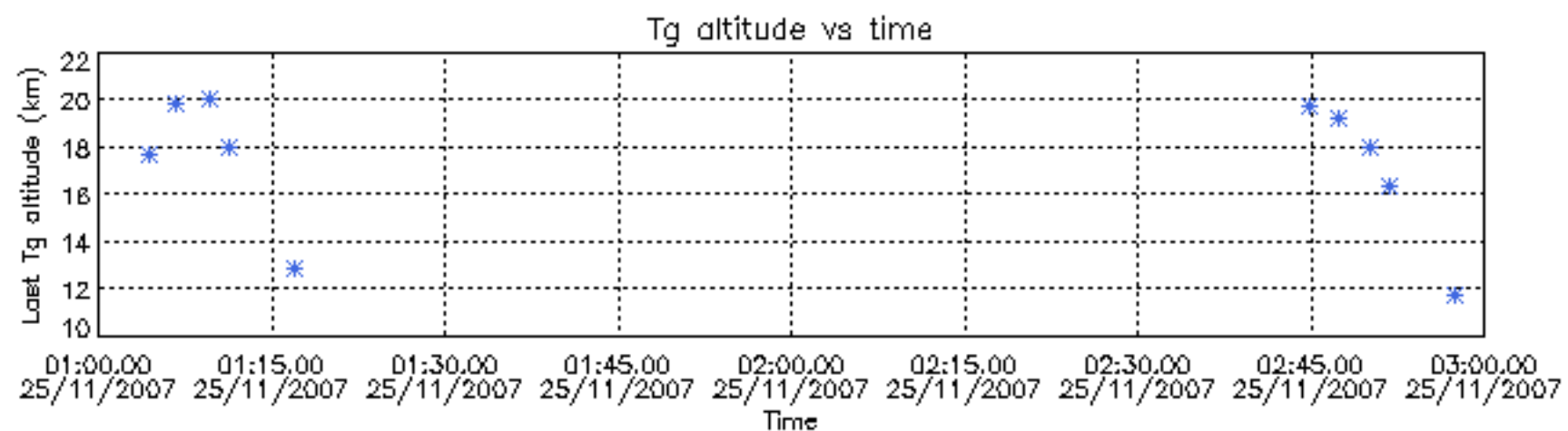
Percentage of star falling outside central band per profile



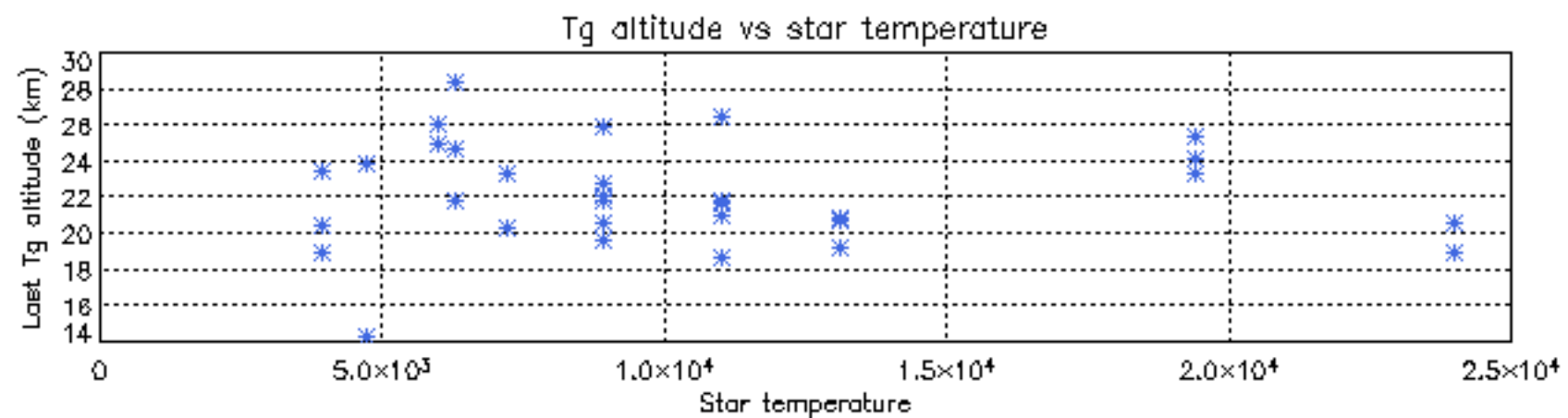
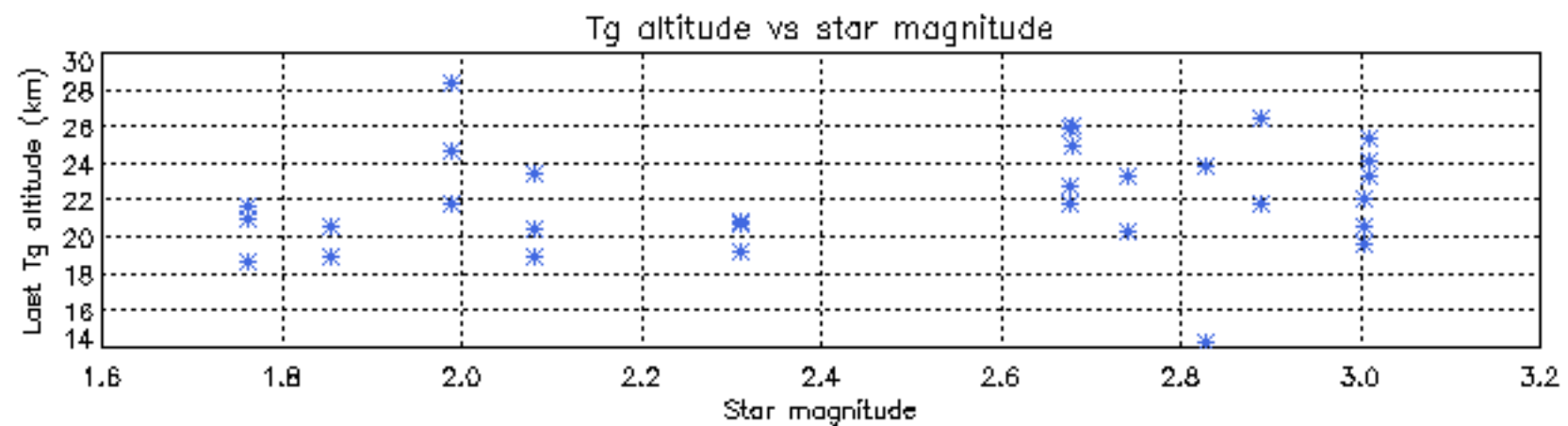
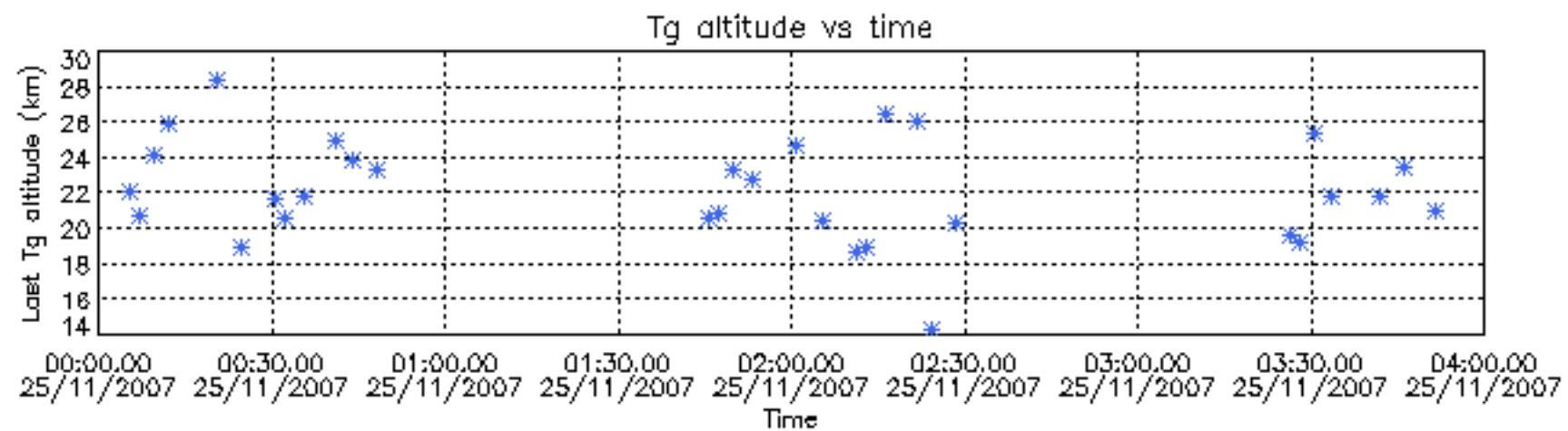
Percentage of saturation errors per profile



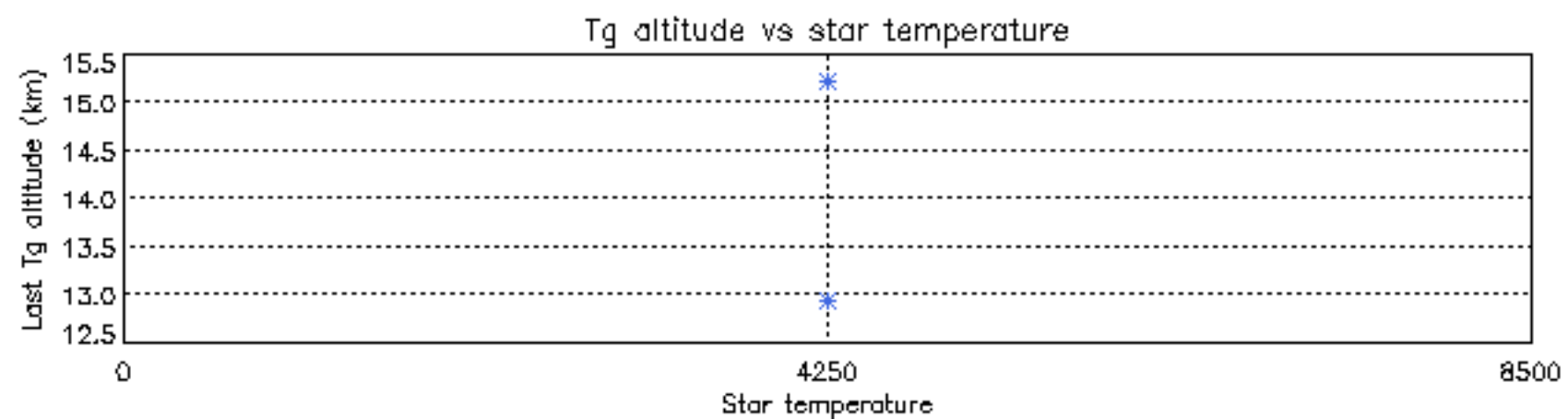
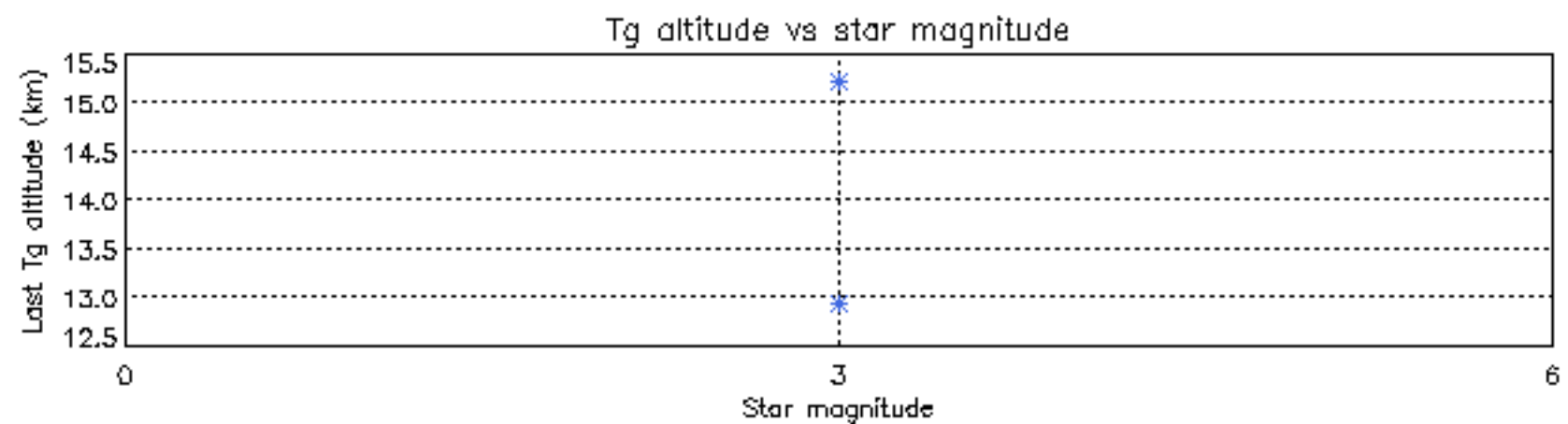
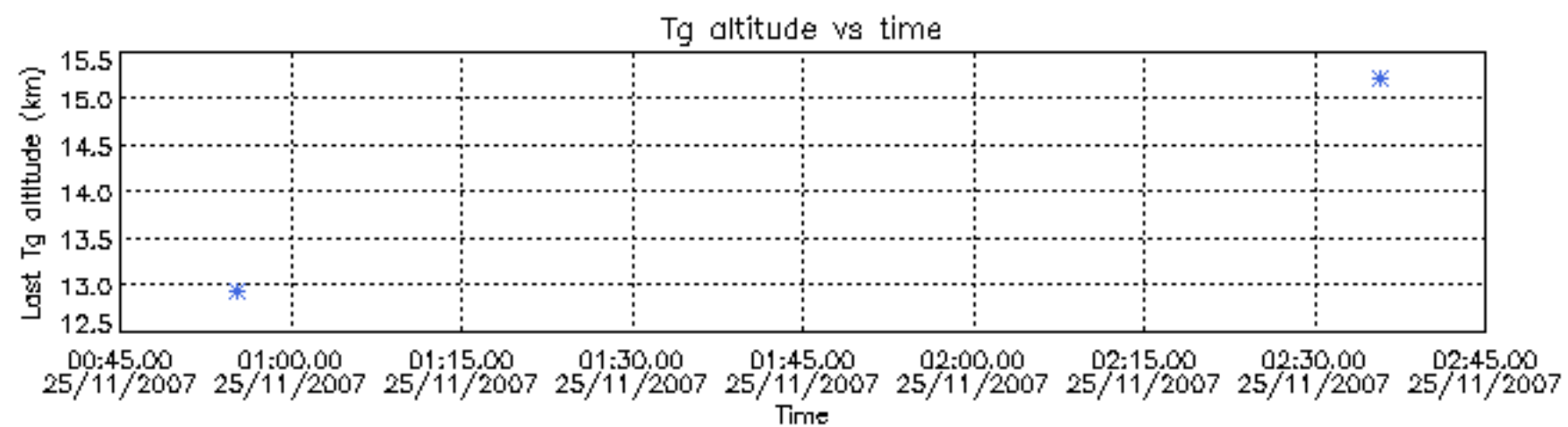
Tangent altitude at which the star is lost

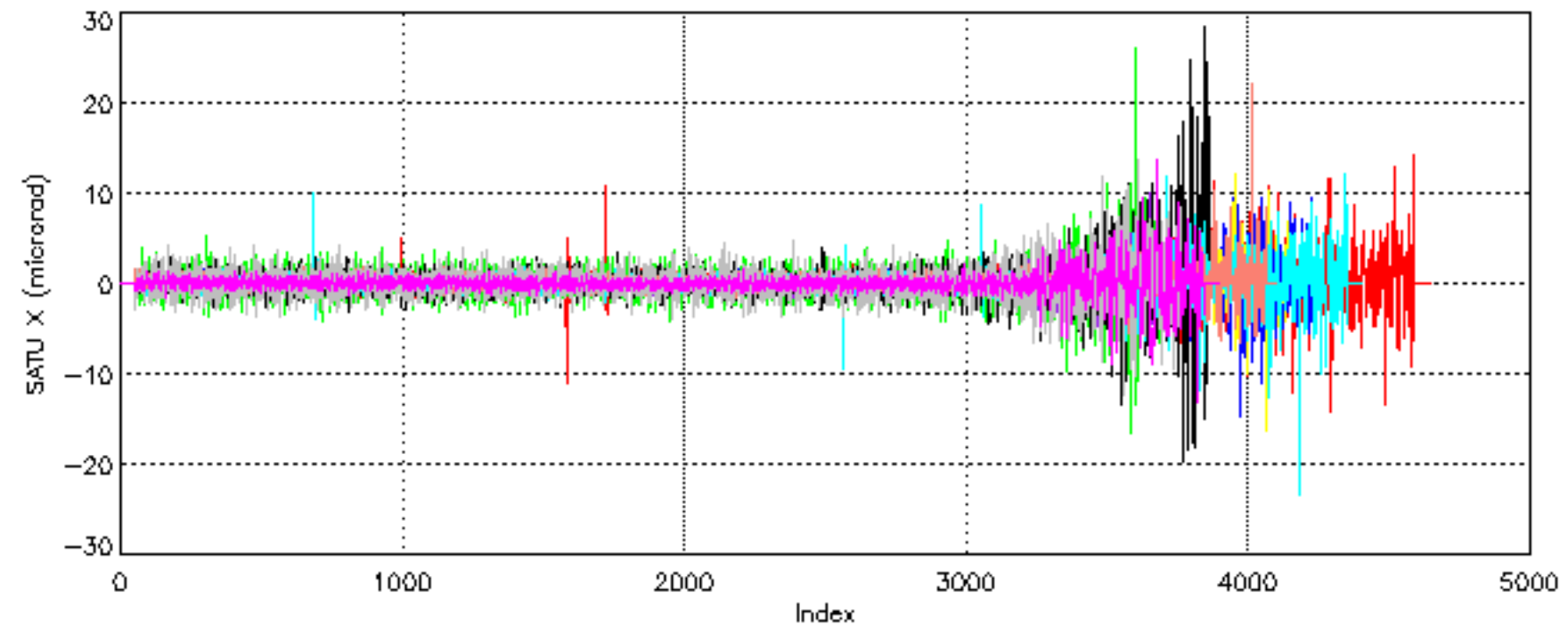


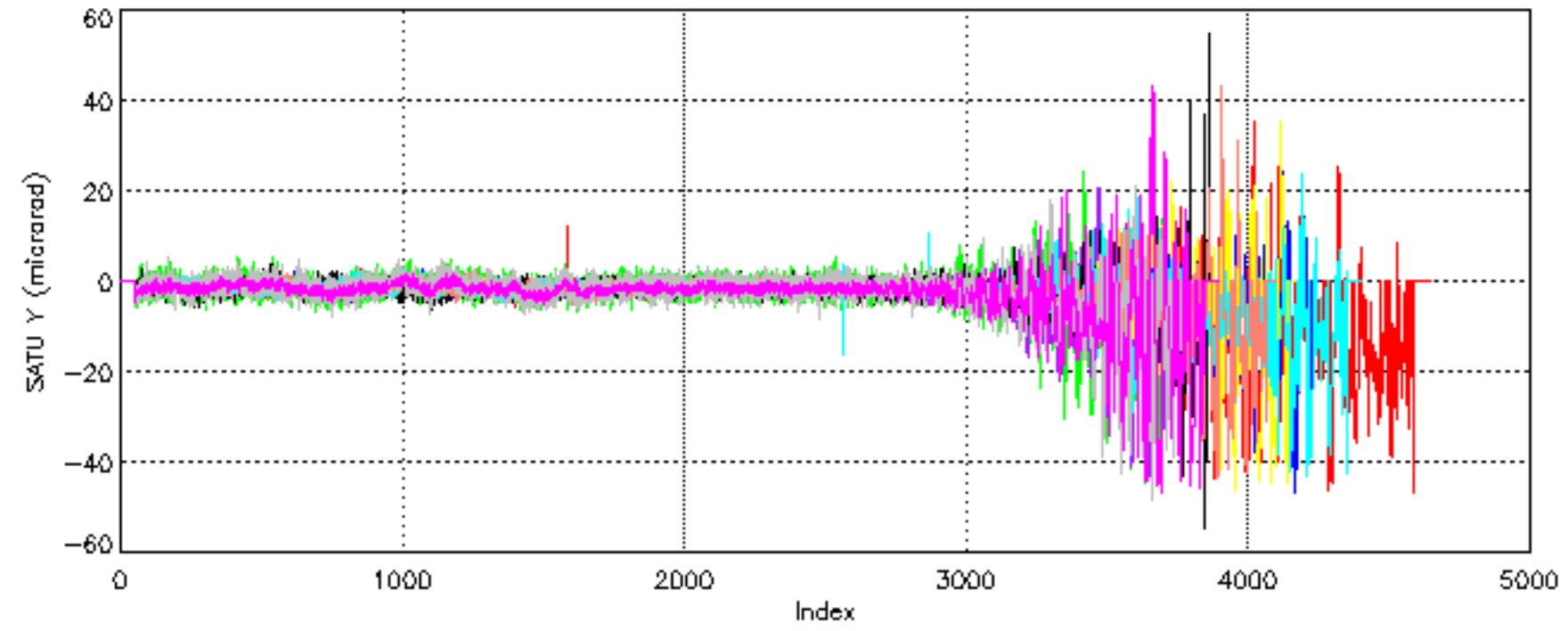
Tangent altitude at which the star is lost

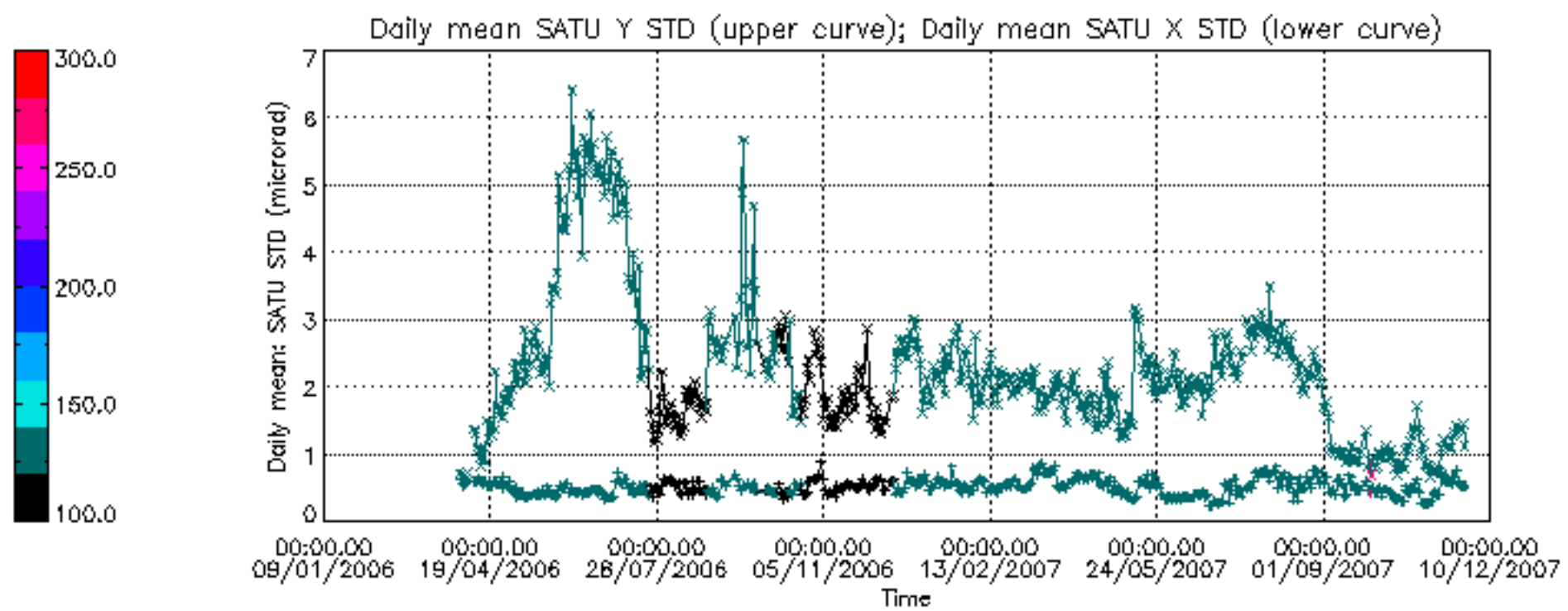


Tangent altitude at which the star is lost









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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
 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
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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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 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
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 2; 2272.6; 01-NOV-2007 21:02:34; Bright; 38.5; 105; 6Bet Ari ; 2.64; 8900;occ; 77; 0;29656
 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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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
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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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4; -1363.6; 01-NOV-2007 06:37:10; Bright; 45.5; 96; 68Del Leo ; 2.56; 9300;occ; 91; 0;29647
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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
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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16; 4878.3; 04-NOV-2007 01:44:33; Bright; 38.5; 0; ; 0.00; 0;occ; 77; 0;29687
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7; 4005.2; 04-NOV-2007 08:12:24; Bright; 42.0; 82; 48Bet UMA ; 2.37; 10600;occ; 84; 0;29691
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4; 2934.7; 04-NOV-2007 09:35:09; Bright; 36.0; 110; 37Del Cas ; 2.68; 8900;occ; 72; 0;29692
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8; 4229.9; 04-NOV-2007 09:56:44; Bright; 40.0; 174; 52Psi UMa ; 3.00; 4400;occ; 80; 0;29692
9; 4684.4; 04-NOV-2007 10:04:19; Bright; 38.0; 96; 68Del Leo ; 2.56; 9300;occ; 76; 0;29692
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4; 2934.4; 04-NOV-2007 11:15:45; Bright; 35.0; 110; 37Del Cas ; 2.68; 8900;occ; 70; 0;29693
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6; 3907.8; 04-NOV-2007 11:31:58; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;29693
7; 4005.0; 04-NOV-2007 11:33:35; Bright; 39.0; 82; 48Bet UMa ; 2.37; 10600;occ; 78; 0;29693
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9; 4684.6; 04-NOV-2007 11:44:55; Bright; 59.0; 96; 68Del Leo ; 2.56; 9300;occ; 118; 0;29693
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6; 3907.7; 04-NOV-2007 16:33:46; Bright; 40.5; 36; 50Alp UMa ; 1.80; 6300;occ; 81; 0;29696

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 4; 2649.4; 04-NOV-2007 17:53:23; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;29697
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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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4; -1700.5; 20-NOV-2007 06:34:24; Bright; 35.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 71; 0;29919
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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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22; 6421.1; 20-NOV-2007 08:49:45; Dark ; 43.5; 41; Eps Car ; 1.86; 4100;occ; 87; 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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11; 4335.9; 20-NOV-2007 14:57:24; Bright; 35.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 71; 0;29924
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```


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```

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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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