

GOMOS Daily Report 24-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	26NOV2007 05:35:58
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (24NOV2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (25NOV2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

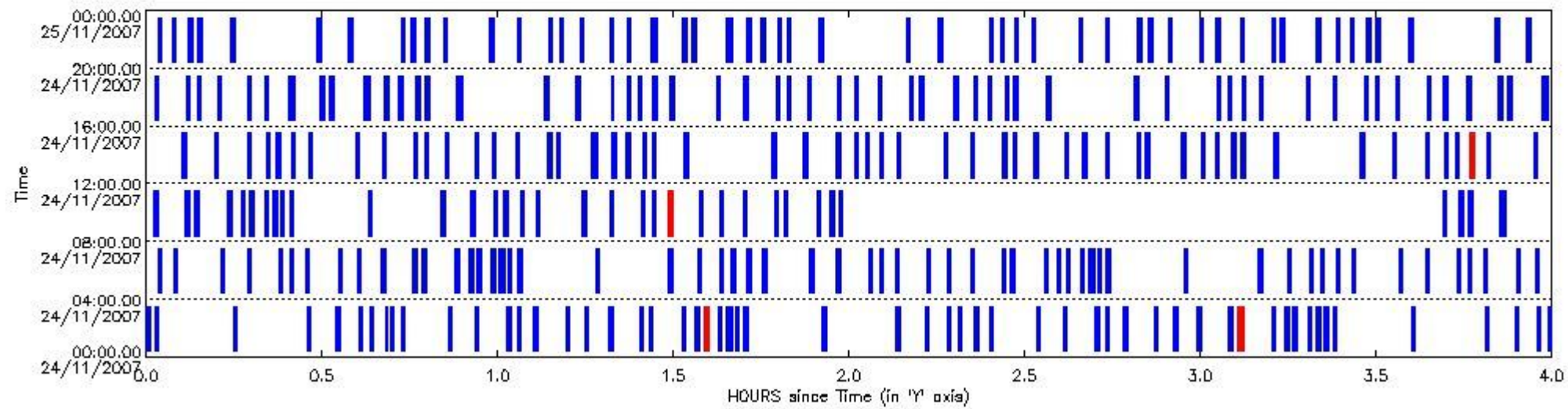
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



2.3 Summary of missing occultations (red segments in previous plot)

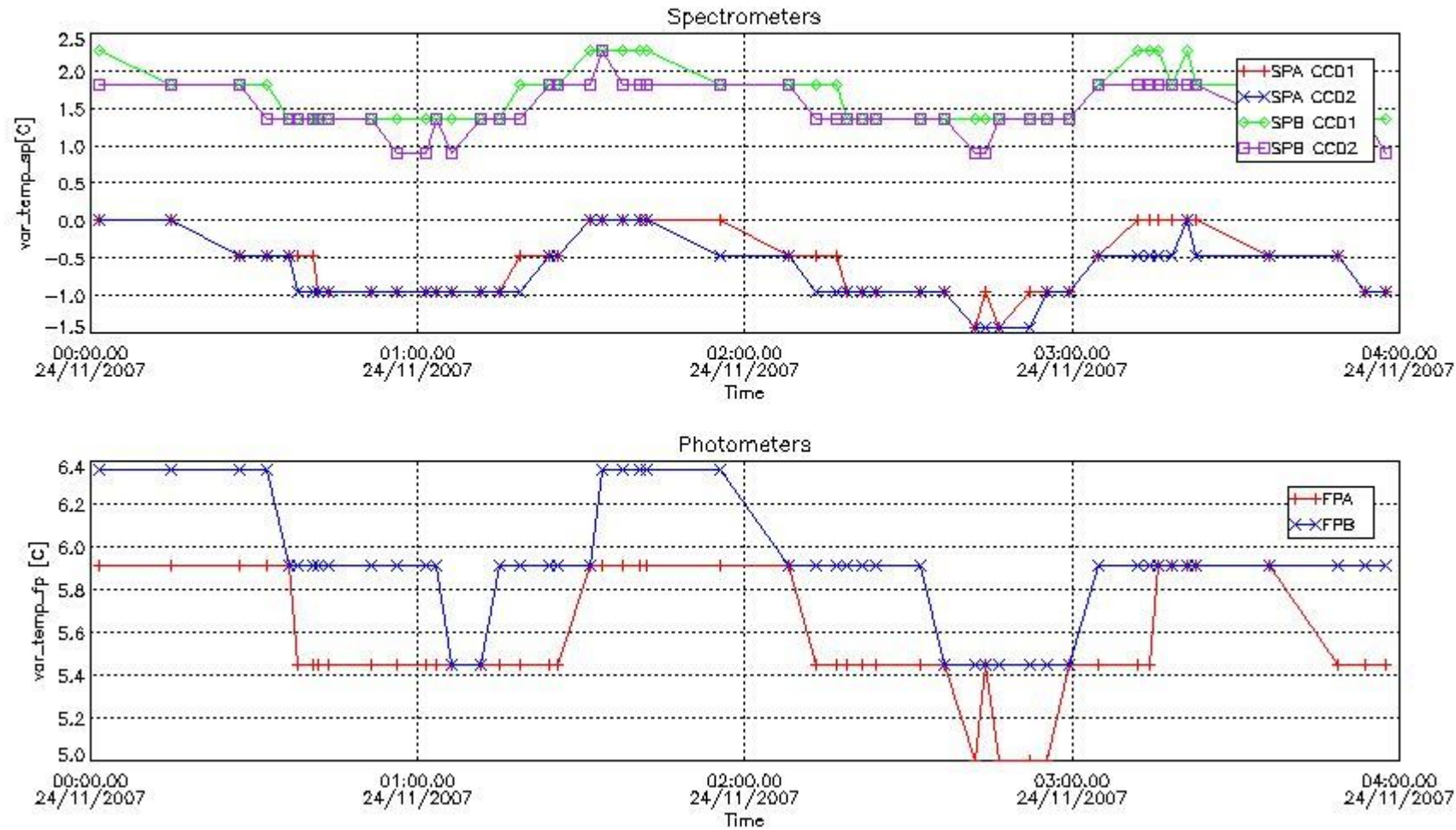
UTC start time	Star name	Star ID	Orbit
24-NOV-2007 01:35:12	MuVel	113	29974
24-NOV-2007 03:06:23	2EpsCrv	171	29974
24-NOV-2007 09:29:05	27GamBoo	180	29978
24-NOV-2007 15:45:54	39DelPer	175	29982

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_1PNPDE20071124_000126_000000422063_00360_29973_9798.N1	24-NOV-2007 00:01:26	Dark	41.500	41	Eps Car	1.8600	4100.0	83	29973	No
2	GOM_TRA_1PNPDE20071124_001452_000000382063_00360_29973_9799.N1	24-NOV-2007 00:14:52	Straylight	38.000	157	The1Eri	2.9060	9300.0	76	29973	No
3	GOM_TRA_1PNPDE20071124_002721_000000442063_00360_29973_9800.N1	24-NOV-2007 00:27:21	Twilight_stray	44.000	94	92Alp Cet	2.5260	3100.0	88	29973	No
4	GOM_TRA_1PNPDE20071124_003226_000000372063_00360_29973_9801.N1	24-NOV-2007 00:32:26	Bright	36.500	105	6Bet Ari	2.6450	8900.0	73	29973	No
5	GOM_TRA_1PNPDE20071124_003614_000000362063_00360_29973_9802.N1	24-NOV-2007 00:36:14	Bright	35.500	173	4Bet Tri	3.0040	8900.0	71	29973	No
6	GOM_TRA_1PNPDE20071124_003805_000000392063_00360_29973_9803.N1	24-NOV-2007 00:38:05	Bright	38.500	79	26Bet Per	2.3100	13100.0	77	29973	No
7	GOM_TRA_1PNPDE20071124_004050_000000272063_00360_29973_9804.N1	24-NOV-2007 00:40:50	Bright	27.000	35	33Alp Per	1.7950	6250.0	54	29973	No

8	GOM_TRA_1PNPDE20071124_004138_000000372063_00360_29973_9805.N1	24-NOV-2007 00:41:38	Bright	36.500	160	23Gam Per	2.9300	4700.0	73	29973	No
9	GOM_TRA_1PNPDE20071124_004328_000000342063_00360_29973_9806.N1	24-NOV-2007 00:43:28	Bright	33.500	110	37Del Cas	2.6780	8900.0	67	29973	No
10	GOM_TRA_1PNPDE20071124_005130_000000352063_00360_29973_9807.N1	24-NOV-2007 00:51:30	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	29973	No
11	GOM_TRA_1PNPDE20071124_005603_000000372063_00360_29973_9808.N1	24-NOV-2007 00:56:03	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	29973	No
12	GOM_TRA_1PNPDE20071124_010129_000000542063_00360_29973_9809.N1	24-NOV-2007 01:01:29	Bright	54.000	32	77Eps UMa	1.7630	11000.	108	29973	No
13	GOM_TRA_1PNPDE20071124_010320_000000372063_00360_29973_9810.N1	24-NOV-2007 01:03:20	Bright	37.000	39	85Eta UMa	1.8540	24000.	74	29973	No
14	GOM_TRA_1PNPDE20071124_010604_000000512063_00360_29973_9811.N1	24-NOV-2007 01:06:04	Bright	51.000	180	27Gam Boo	3.0400	8000.0	102	29973	No
15	GOM_TRA_1PNPDE20071124_011133_000000332063_00360_29973_9812.N1	24-NOV-2007 01:11:33	Bright	33.000	3	16Alp Boo	-0.050000	4250.0	66	29973	No
16	GOM_TRA_1PNPDE20071124_011452_000000362063_00360_29973_9813.N1	24-NOV-2007 01:14:52	Bright	36.000	138	47Eps Vir	2.8280	4700.0	72	29973	No
17	GOM_TRA_1PNPDE20071124_011854_000000522063_00360_29973_9814.N1	24-NOV-2007 01:18:54	Bright	52.000	121	29Gam Vir	2.7400	7200.0	104	29973	No
18	GOM_TRA_1PNPDE20071124_012413_000000412063_00360_29973_9898.N1	24-NOV-2007 01:24:13	Twilight	40.500	100	4Gam Crv	2.5800	13100.	81	29973	No
19	GOM_TRA_1PNPDE20071124_012546_000000412063_00360_29973_9899.N1	24-NOV-2007 01:25:46	Twilight	40.500	171	2Eps Crv	3.0010	4250.0	81	29973	No
20	GOM_TRA_1PNPDE20071124_013130_000000382063_00360_29973_9900.N1	24-NOV-2007 01:31:30	Dark	37.500	64	Gam Cen	2.2000	10600.	75	29973	No
21	GOM_TRA_1PNPDE20071124_013344_000000432063_00360_29973_9901.N1	24-NOV-2007 01:33:44	Dark	42.500	26	Gam Cru	1.6240	2900.0	85	29973	No
22	GOM_TRA_1PNPDE20071124_013742_000000372063_00361_29974_9902.N1	24-NOV-2007 01:37:42	Dark	37.000	124	The Car	2.7640	30000.	74	29974	No
23	GOM_TRA_1PNPDE20071124_014033_000000392063_00361_29974_9903.N1	24-NOV-2007 01:40:33	Dark	38.500	29	Bet Car	1.6720	10200.	77	29974	No
24	GOM_TRA_1PNPDE20071124_014202_000000442063_00361_29974_9904.N1	24-NOV-2007 01:42:02	Dark	44.000	41	Eps Car	1.8600	4100.0	88	29974	No
25	GOM_TRA_1PNPDE20071124_015529_000000392063_00361_29974_9905.N1	24-NOV-2007 01:55:29	Straylight	39.000	157	The1Eri	2.9060	9300.0	78	29974	No
26	GOM_TRA_1PNPDE20071124_020757_000000452063_00361_29974_9906.N1	24-NOV-2007 02:07:57	Twilight	44.500	94	92Alp Cet	2.5260	3100.0	89	29974	No
27	GOM_TRA_1PNPDE20071124_021302_000000352063_00361_29974_9907.N1	24-NOV-2007 02:13:02	Bright	35.000	105	6Bet Ari	2.6450	8900.0	70	29974	No
28	GOM_TRA_1PNPDE20071124_021650_000000362063_00361_29974_9908.N1	24-NOV-2007 02:16:50	Bright	35.500	173	4Bet Tri	3.0040	8900.0	71	29974	No
29	GOM_TRA_1PNPDE20071124_021841_000000362063_00361_29974_9909.N1	24-NOV-2007 02:18:41	Bright	36.000	79	26Bet Per	2.3100	13100.	72	29974	No
30	GOM_TRA_1PNPDE20071124_022125_000000362063_00361_29974_9910.N1	24-NOV-2007 02:21:25	Bright	36.000	35	33Alp Per	1.7950	6250.0	72	29974	No
31	GOM_TRA_1PNPDE20071124_022404_000000342063_00361_29974_9911.N1	24-NOV-2007 02:24:04	Bright	34.000	110	37Del Cas	2.6780	8900.0	68	29974	No
32	GOM_TRA_1PNPDE20071124_023205_000000332063_00361_29974_9912.N1	24-NOV-2007 02:32:05	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	29974	No
33	GOM_TRA_1PNPDE20071124_023638_000000372063_00361_29974_0104.N1	24-NOV-2007 02:36:38	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	29974	No
34	GOM_TRA_1PNPDE20071124_024204_000000372063_00361_29974_0105.N1	24-NOV-2007 02:42:04	Bright	37.000	32	77Eps UMa	1.7630	11000.	74	29974	No
35	GOM_TRA_1PNPDE20071124_024356_000000342063_00361_29974_0106.N1	24-NOV-2007 02:43:56	Bright	33.500	39	85Eta UMa	1.8540	24000.	67	29974	No
36	GOM_TRA_1PNPDE20071124_024640_000000512063_00361_29974_0107.N1	24-NOV-2007 02:46:40	Bright	51.000	180	27Gam Boo	3.0400	8000.0	102	29974	No
37	GOM_TRA_1PNPDE20071124_025209_000000332063_00361_29974_0108.N1	24-NOV-2007 02:52:09	Bright	32.500	3	16Alp Boo	-0.050000	4250.0	65	29974	No
38	GOM_TRA_1PNPDE20071124_025528_000000372063_00361_29974_0109.N1	24-NOV-2007 02:55:28	Bright	36.500	138	47Eps Vir	2.8280	4700.0	73	29974	No
39	GOM_TRA_1PNPDE20071124_025930_000000402063_00361_29974_0110.N1	24-NOV-2007 02:59:30	Bright	40.000	121	29Gam Vir	2.7400	7200.0	80	29974	No
40	GOM_TRA_1PNPDE20071124_030449_000000412063_00361_29974_0111.N1	24-NOV-2007 03:04:49	Twilight	41.000	100	4Gam Crv	2.5800	13100.	82	29974	No
41	GOM_TRA_1PNPDE20071124_031206_000000372063_00361_29974_0112.N1	24-NOV-2007 03:12:06	Dark	36.500	64	Gam Cen	2.2000	10600.	73	29974	No
42	GOM_TRA_1PNPDE20071124_031420_000000522063_00361_29974_0113.N1	24-NOV-2007 03:14:20	Dark	52.000	26	Gam Cru	1.6240	2900.0	104	29974	No
43	GOM_TRA_1PNPDE20071124_031549_000000432063_00362_29975_0114.N1	24-NOV-2007 03:15:49	Dark	43.000	113	Mu Vel	2.6920	5000.0	86	29975	No
44	GOM_TRA_1PNPDE20071124_031818_000000382063_00362_29975_0115.N1	24-NOV-2007 03:18:18	Dark	38.000	124	The Car	2.7640	30000.	76	29975	No
45	GOM_TRA_1PNPDE20071124_032109_000000372063_00362_29975_0116.N1	24-NOV-2007 03:21:09	Dark	37.000	29	Bet Car	1.6720	10200.	74	29975	No
46	GOM_TRA_1PNPDE20071124_032239_000000422063_00362_29975_0117.N1	24-NOV-2007 03:22:39	Dark	41.500	41	Eps Car	1.8600	4100.0	83	29975	No
47	GOM_TRA_1PNPDE20071124_033605_000000382063_00362_29975_0118.N1	24-NOV-2007 03:36:05	Straylight	38.000	157	The1Eri	2.9060	9300.0	76	29975	No
48	GOM_TRA_1PNPDE20071124_034833_000000462063_00362_29975_0119.N1	24-NOV-2007 03:48:33	Twilight	45.500	94	92Alp Cet	2.5260	3100.0	91	29975	No
49	GOM_TRA_1PNPDE20071124_035338_000000372063_00362_29975_0120.N1	24-NOV-2007 03:53:38	Bright	36.500	105	6Bet Ari	2.6450	8900.0	73	29975	No
50	GOM_TRA_1PNPDE20071124_035726_000000362063_00362_29975_0121.N1	24-NOV-2007 03:57:26	Bright	36.000	173	4Bet Tri	3.0040	8900.0	72	29975	No

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



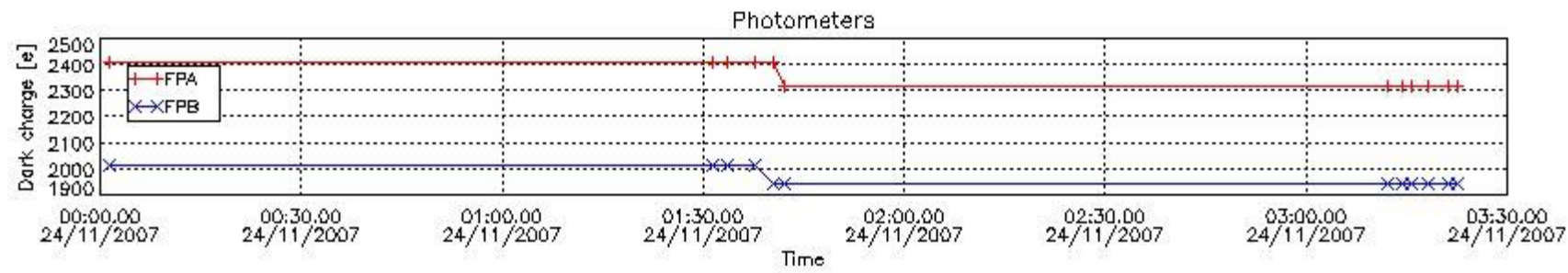
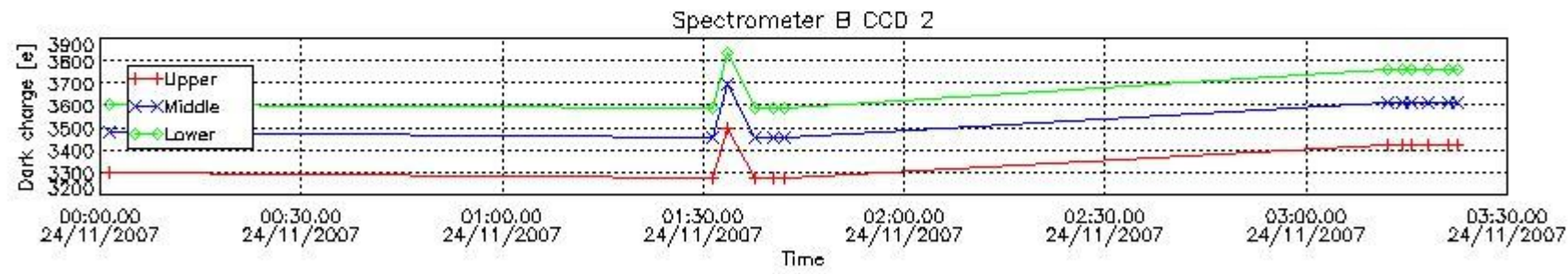
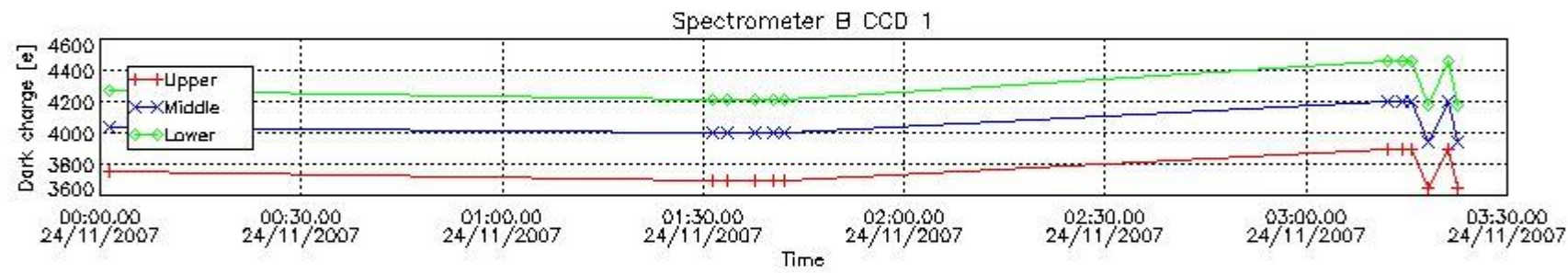
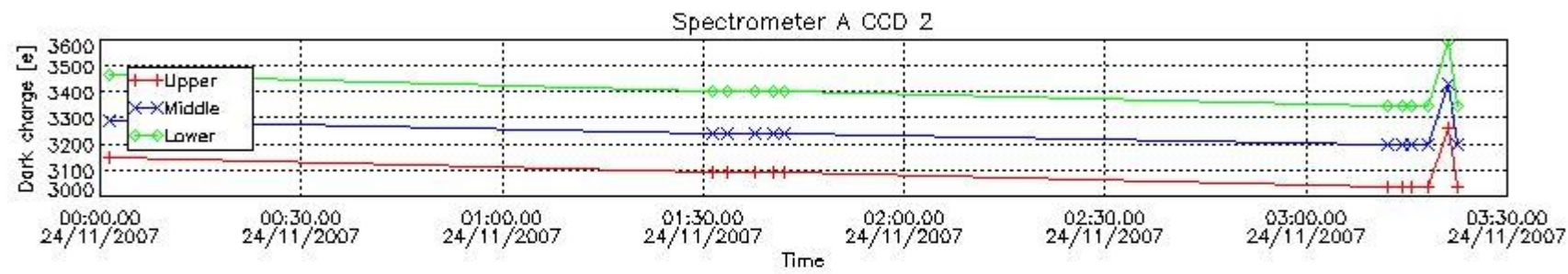
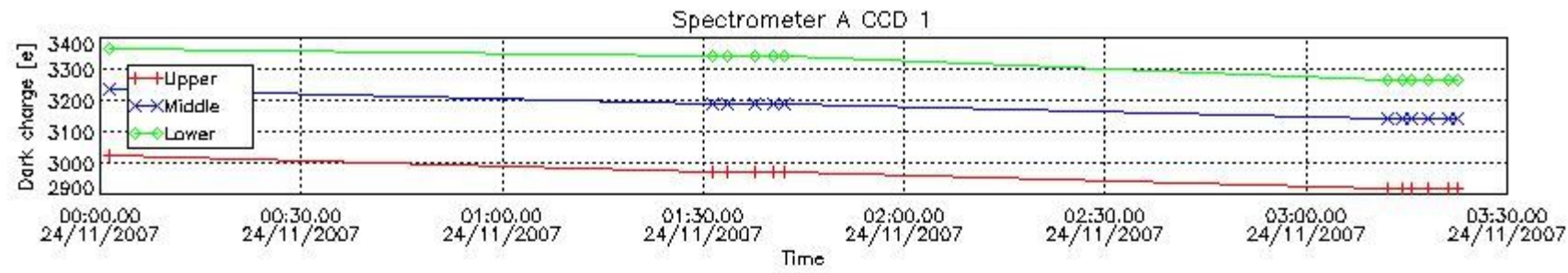
4. Overview of dark signal processing per product

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



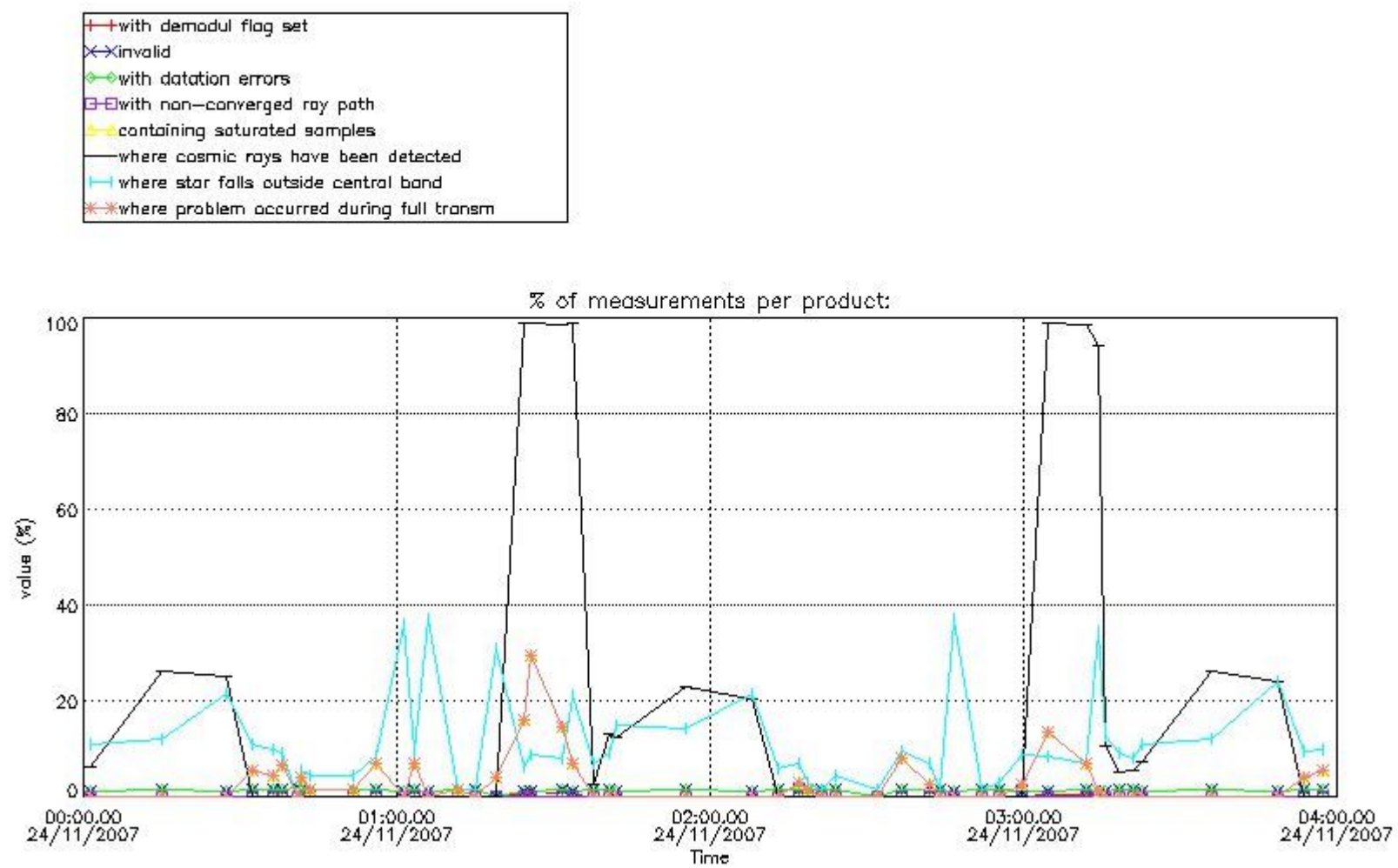
5. Demodulation flag and quality information monitoring

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.

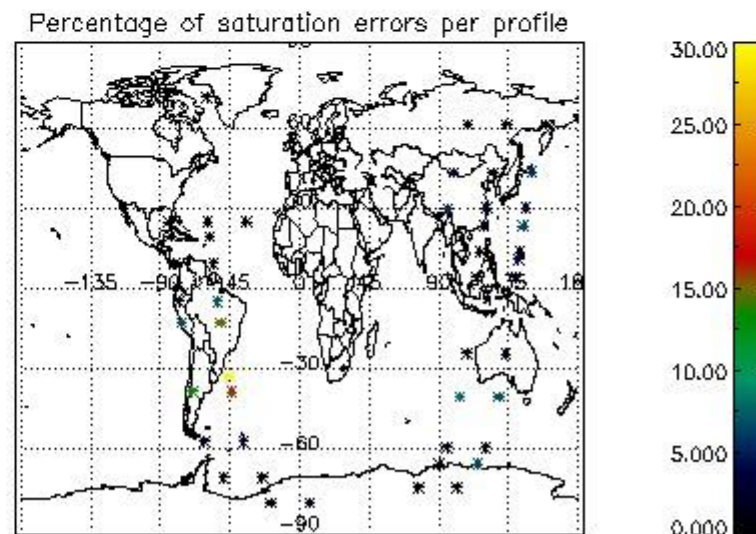
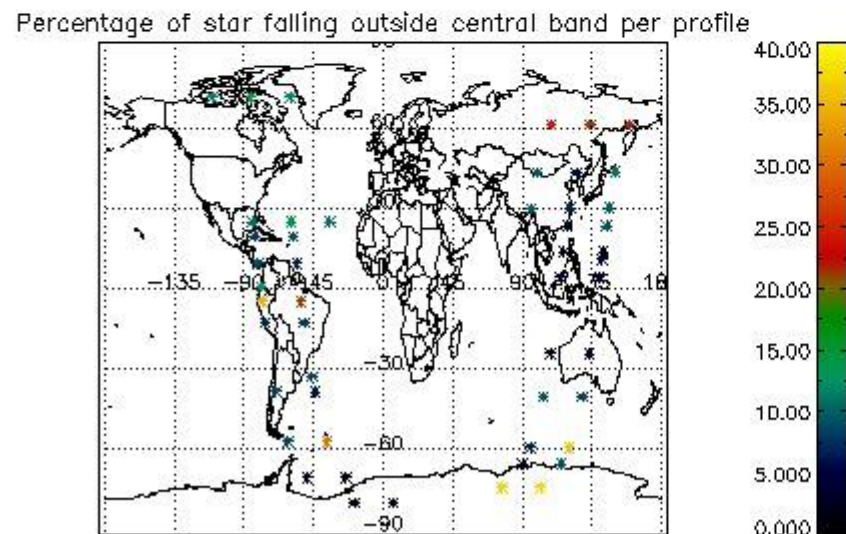
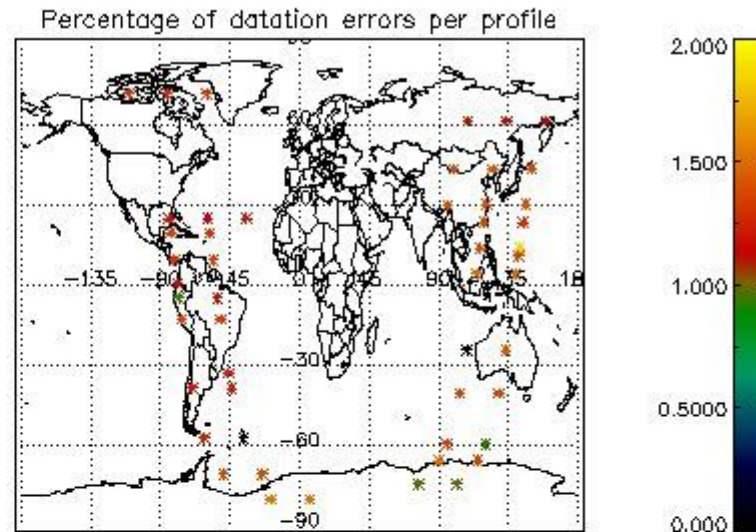
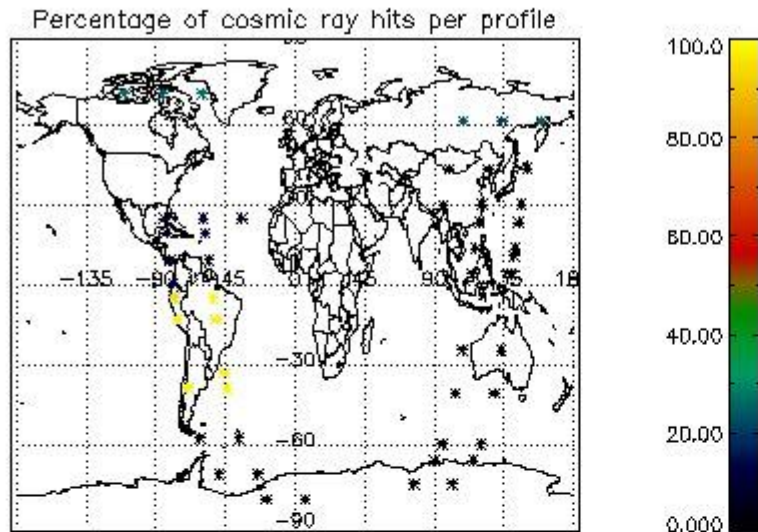
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	22.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



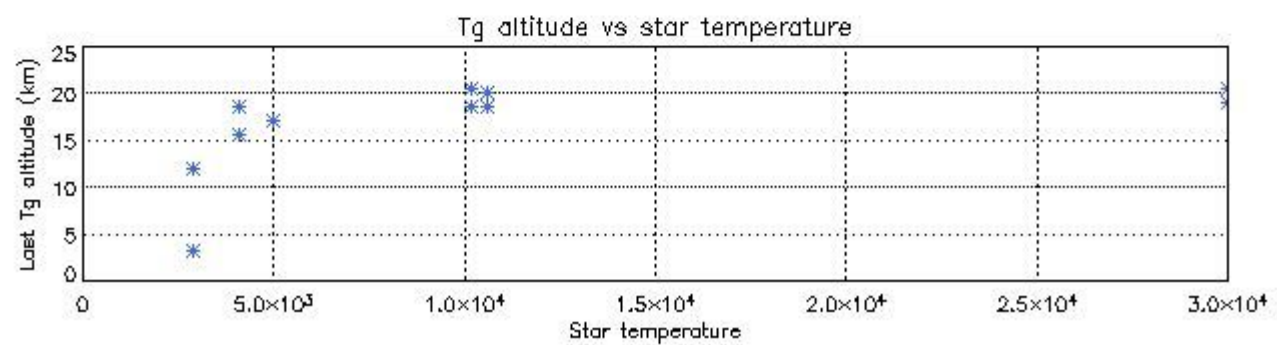
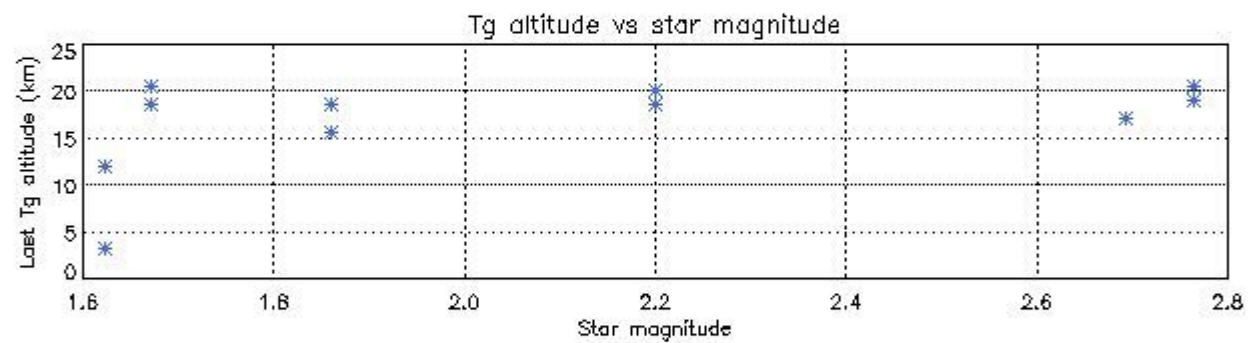
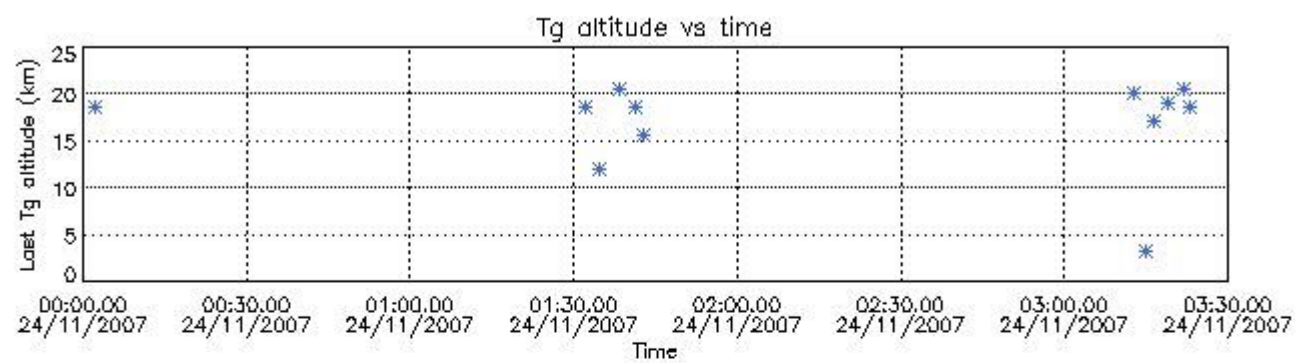
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.869	20.538	19.260
St. deviation:	4.9363	8.6531	0.0000
Maximum:	20.610	50.193	19.260
Minimum:	3.1539	3.9899	19.260
Number of data:	12.000	29.000	1.0000

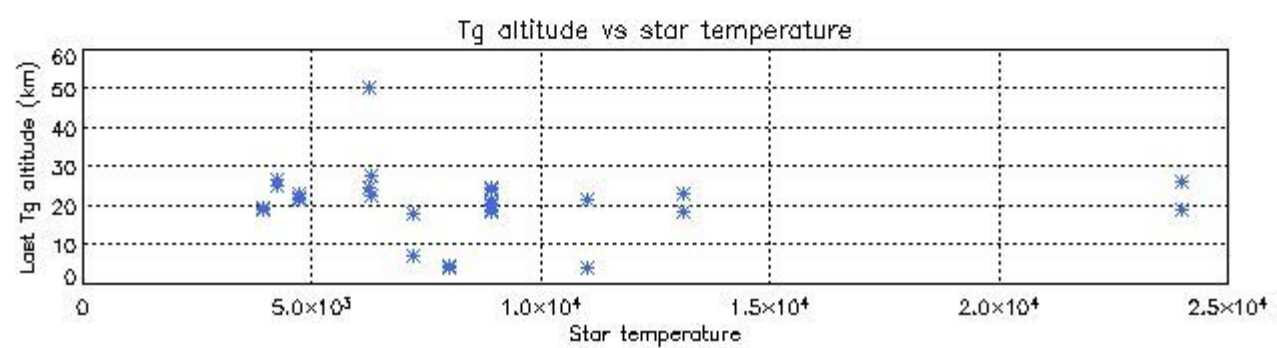
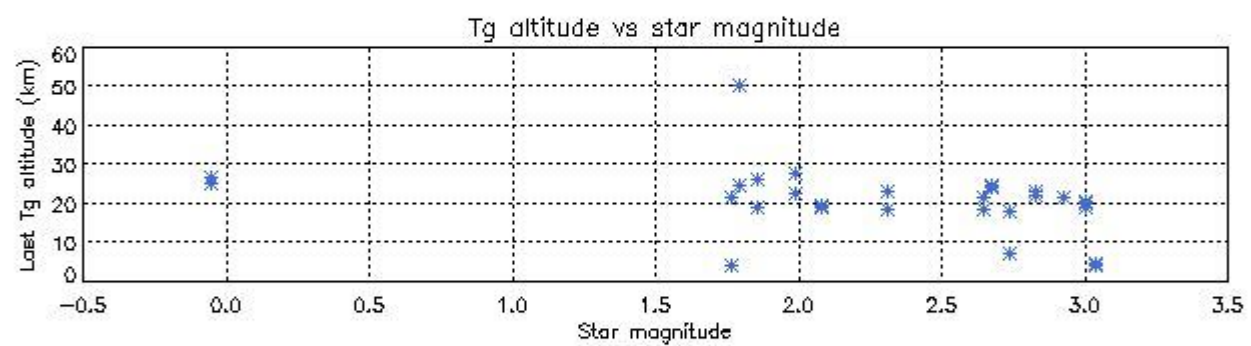
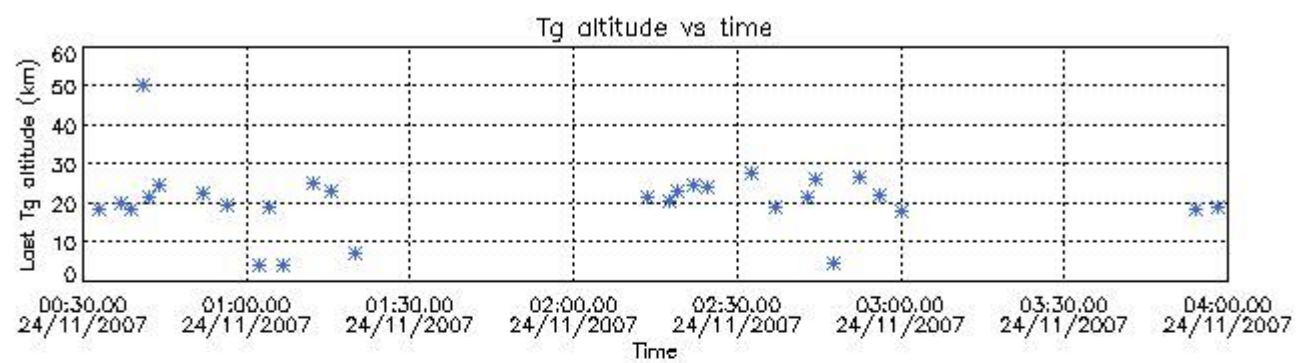
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



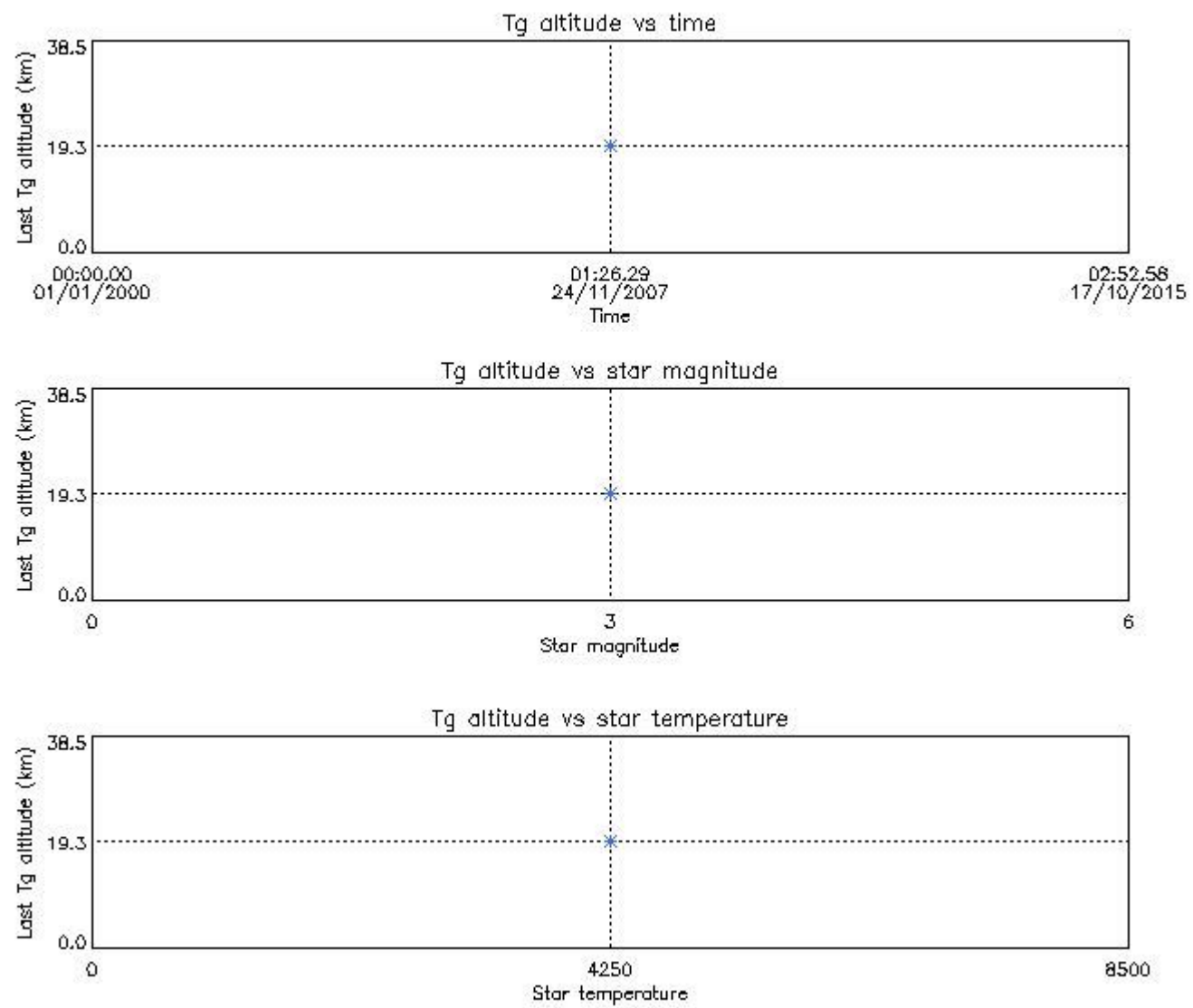
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

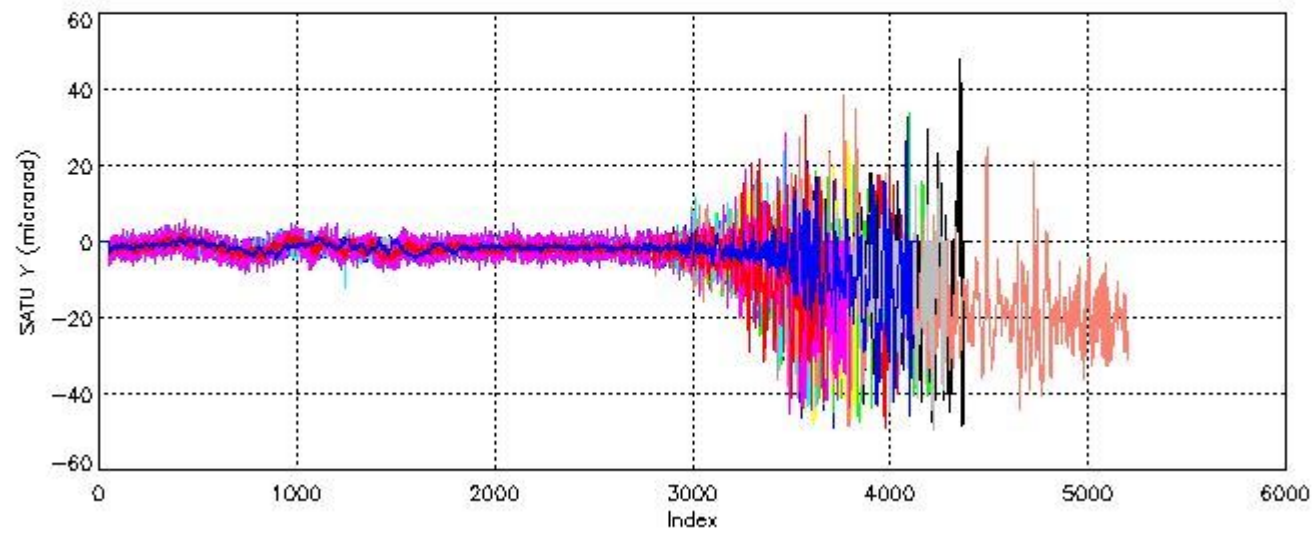
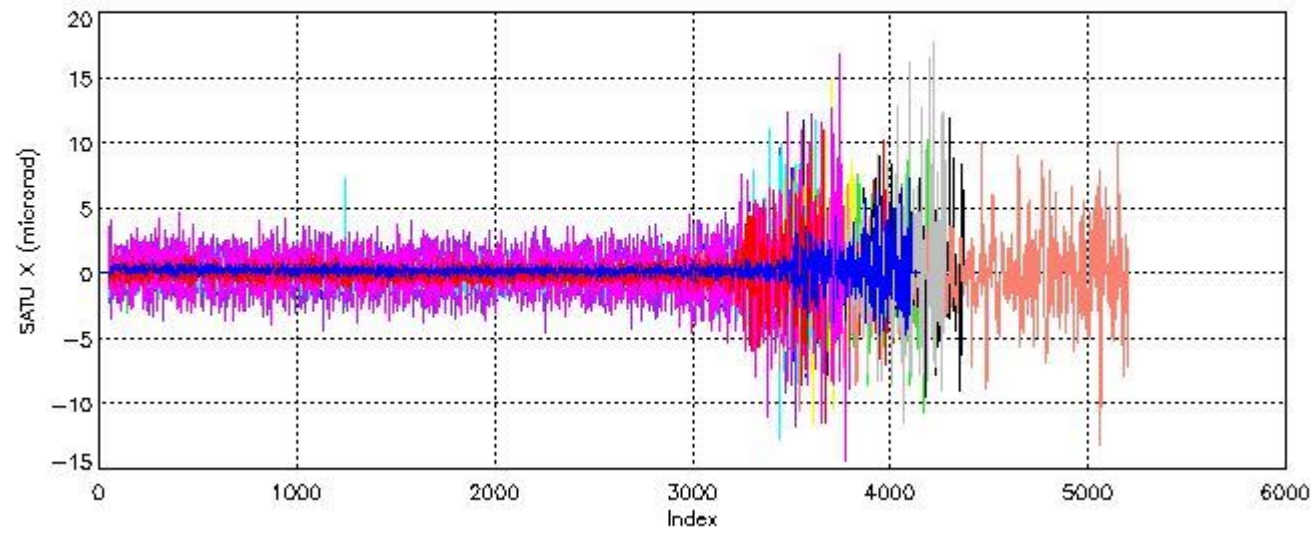


7. Star Acquisition and Tracking Unit (SATU)

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:	0.12136	-1.3516	-0.0071125	-1.3670
St. deviation:	0.50609	1.4466	0.84969	1.6875
Maximum:	4.6000	5.7000	5.4000	6.1000
Minimum:	-3.8000	-8.6000	-6.3000	-10.400

Number of data:	10700.	10700.	23900.	23900.
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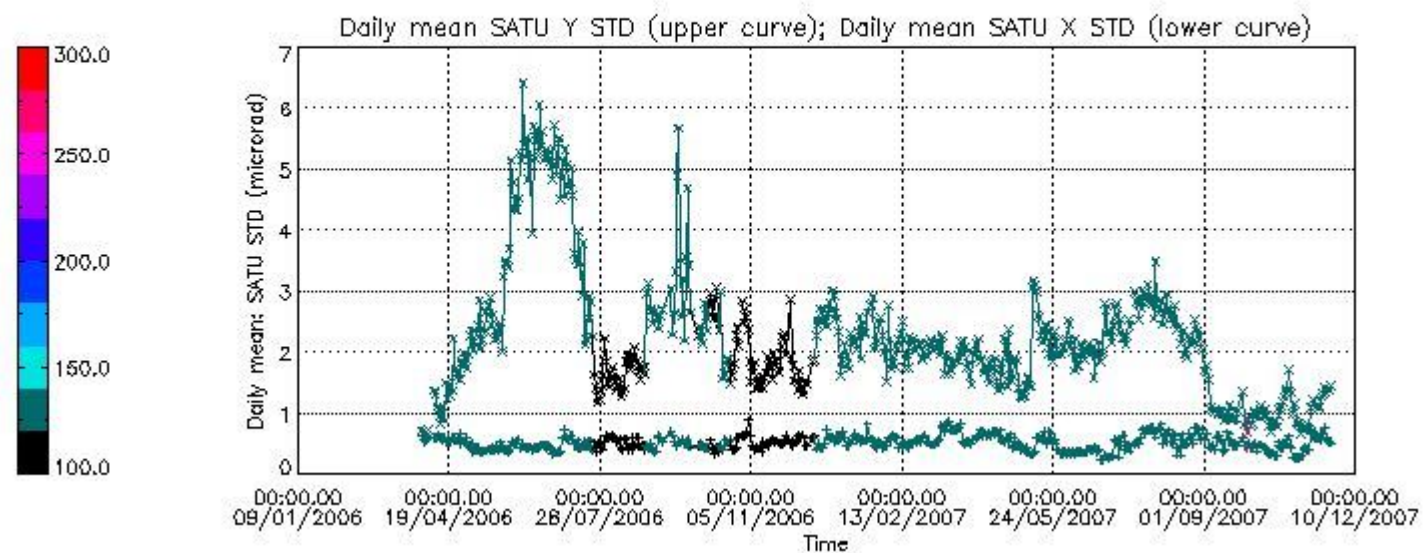
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

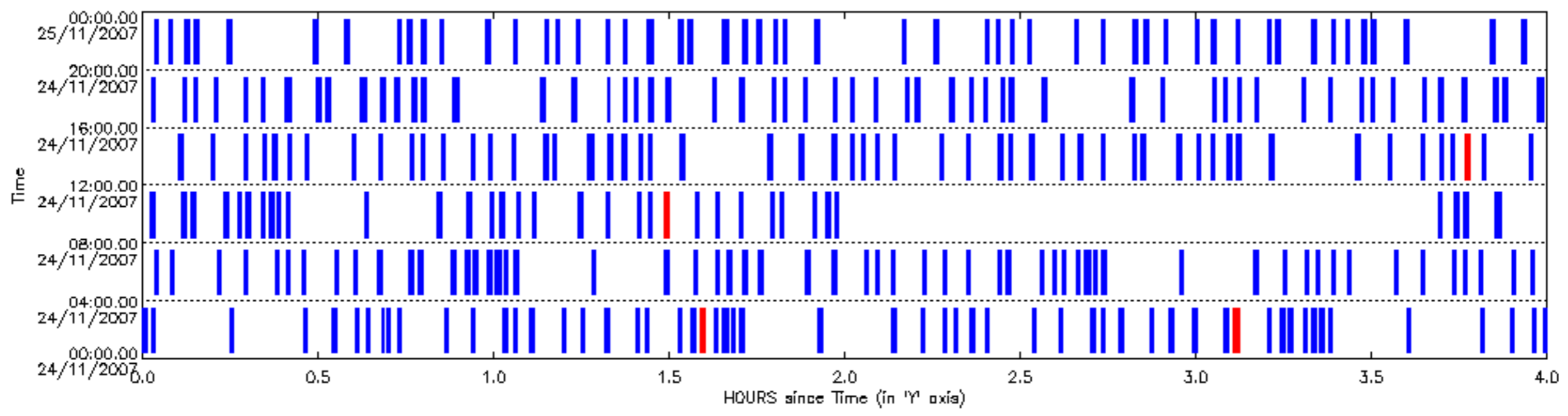
Lower curve: STD of SATU X axis

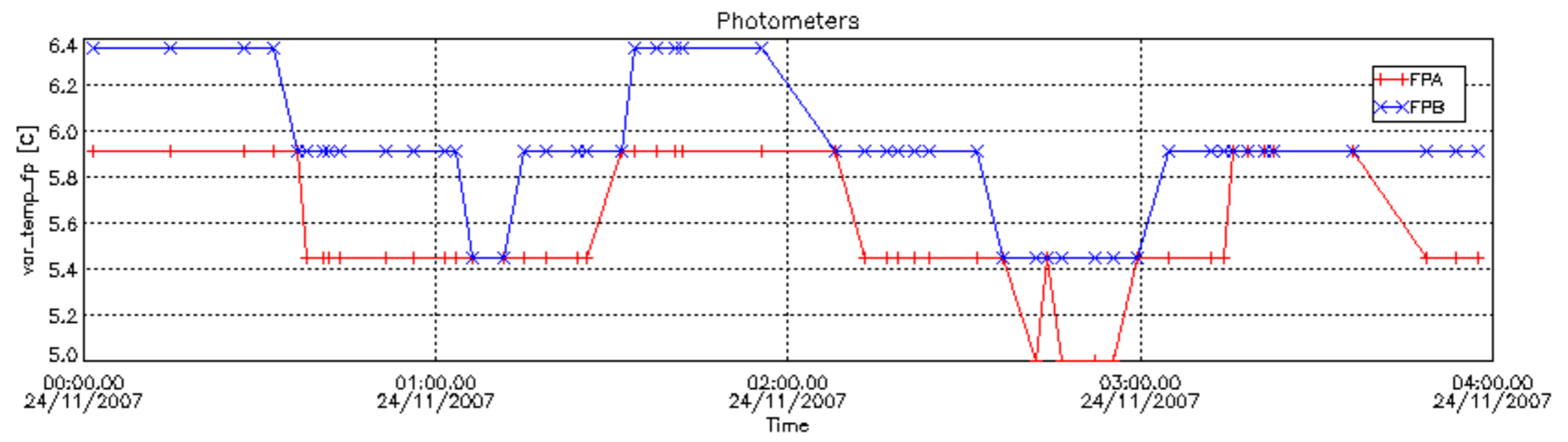
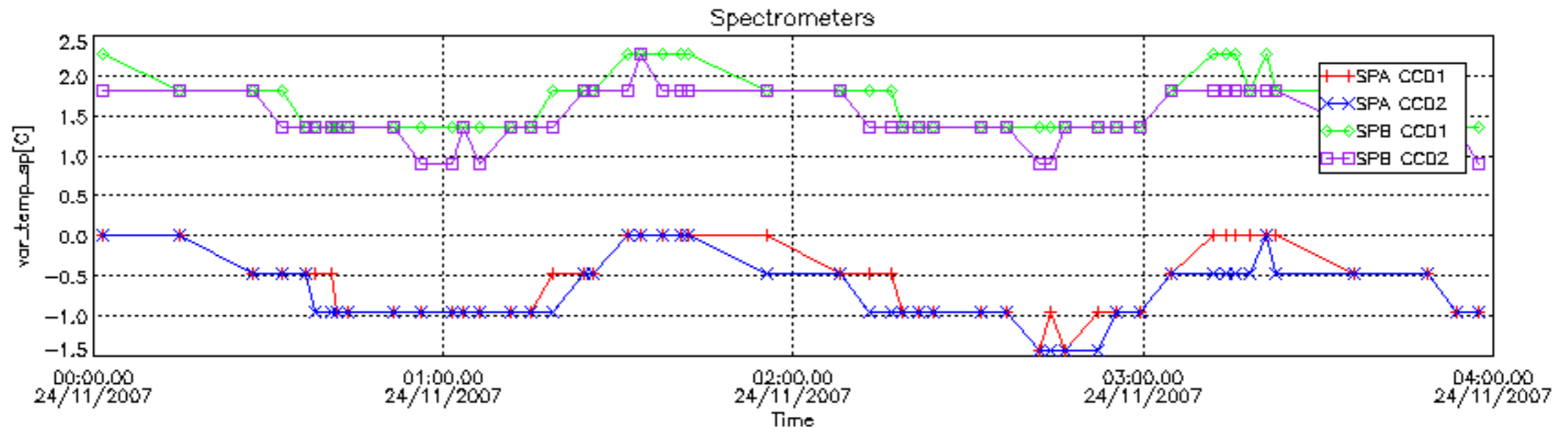


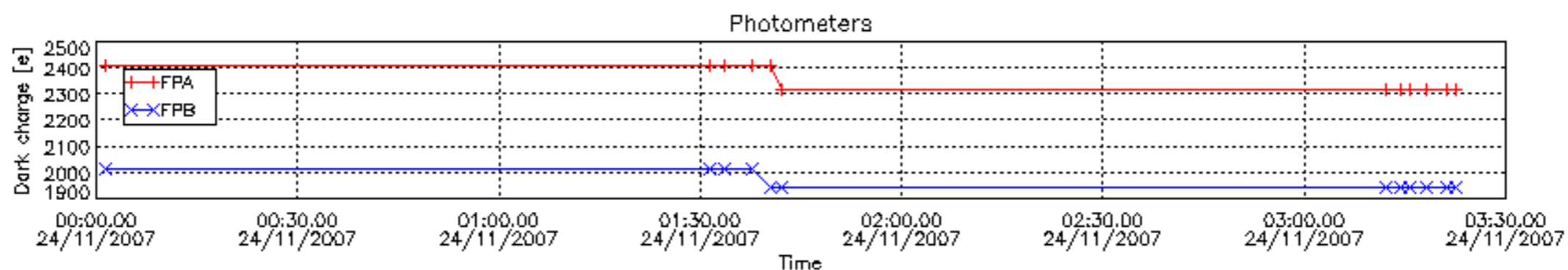
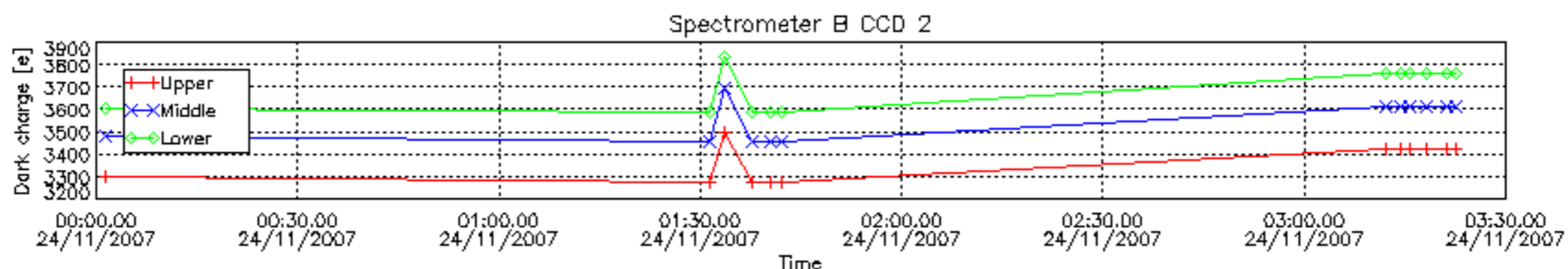
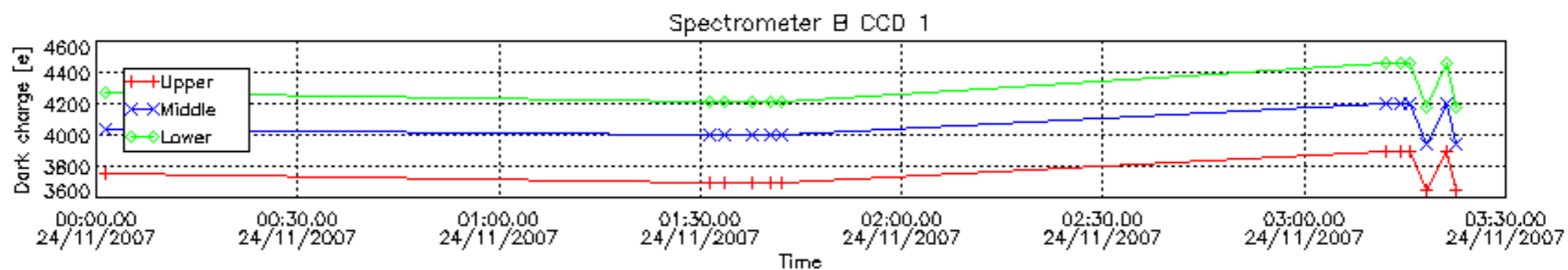
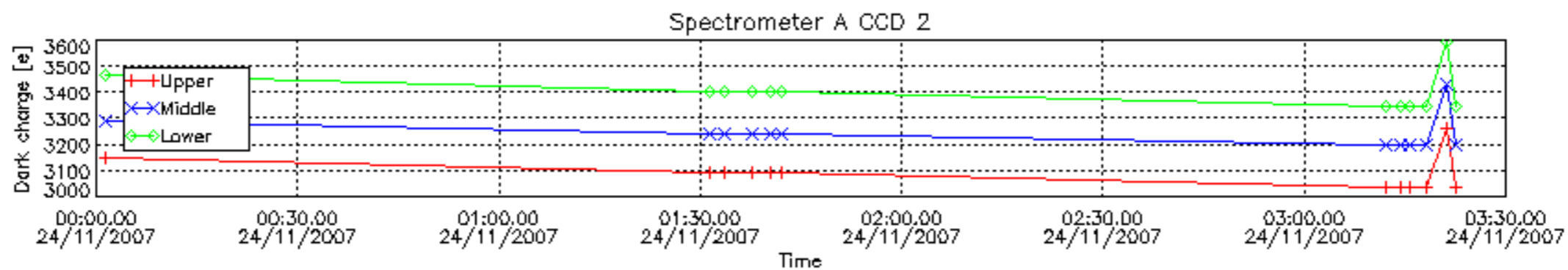
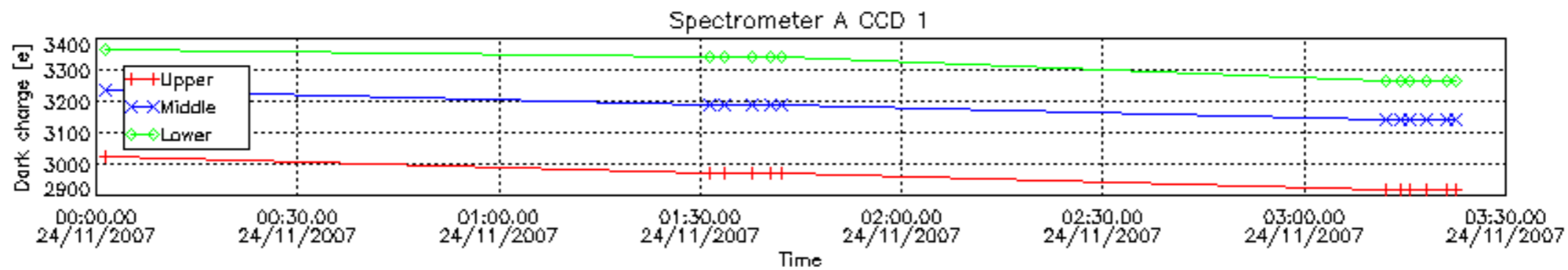
8. Auxiliary Data Files used for the production reported in section 2.4

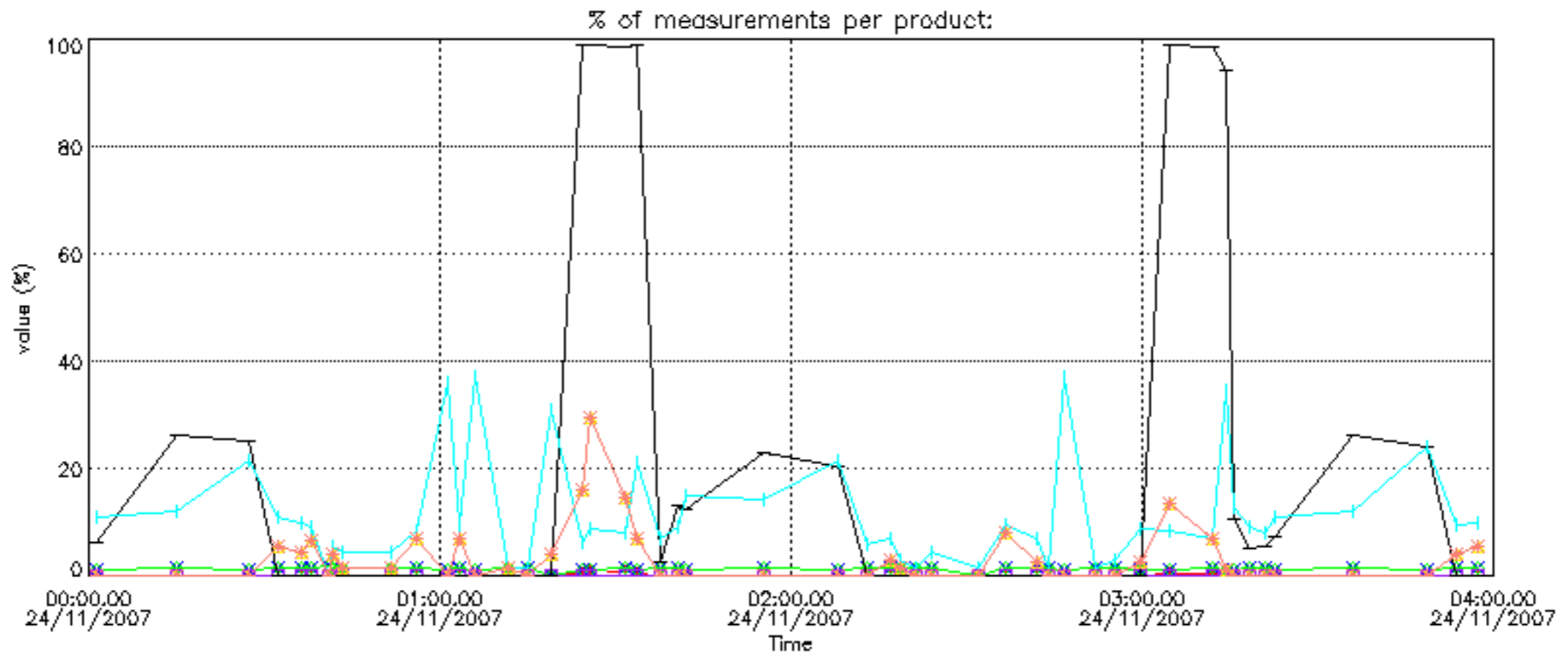
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	24-NOV-2007 00:01:26
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071123_091259_20071121_000000_20100101_000000	1	24-NOV-2007 00:01:26
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	24-NOV-2007 00:01:26
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	24-NOV-2007 00:01:26
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	24-NOV-2007 00:01:26
ECMWF_FILE	AUX_ECF_AXNECM20071123_063111_20071123_210000_20071124_090000	1	24-NOV-2007 00:01:26
OPTIONAL_ECMWF_FILE	MISSING	1	24-NOV-2007 00:01:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071123_215613_000060572063_00358_29971_4622.N1	1	24-NOV-2007 00:01:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071123_234229_000054192063_00359_29972_4623.N1	18	24-NOV-2007 01:24:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071124_023230_000057382063_00361_29974_4726.N1	33	24-NOV-2007 02:36:38

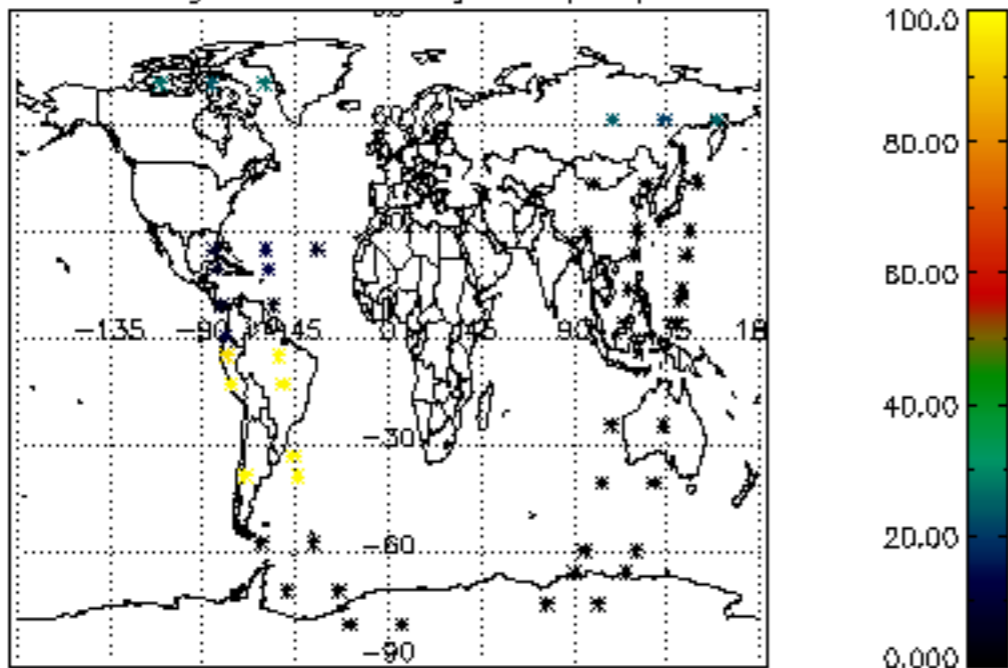




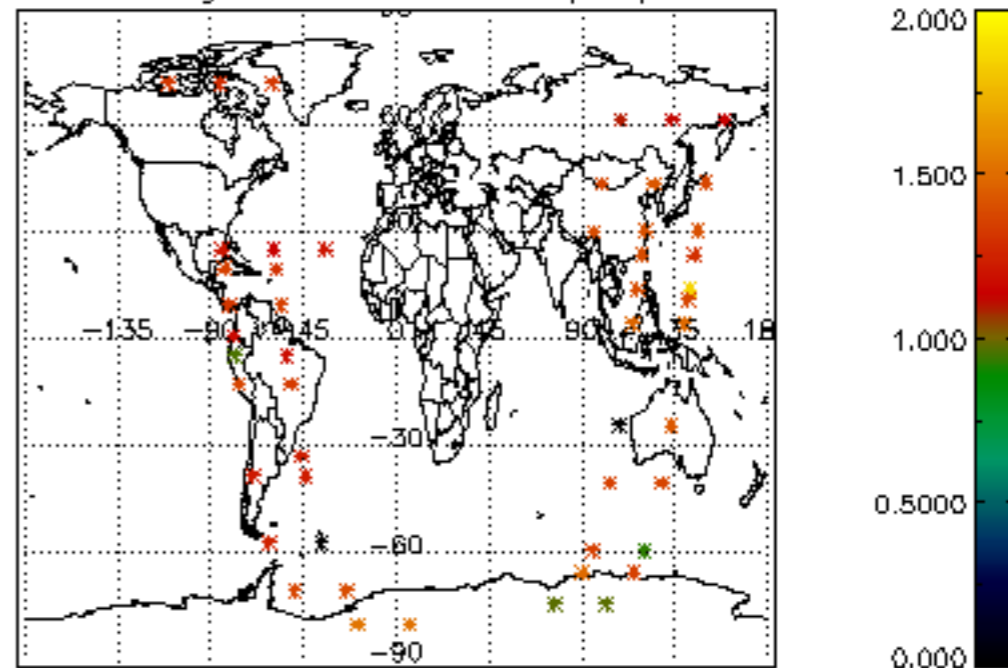




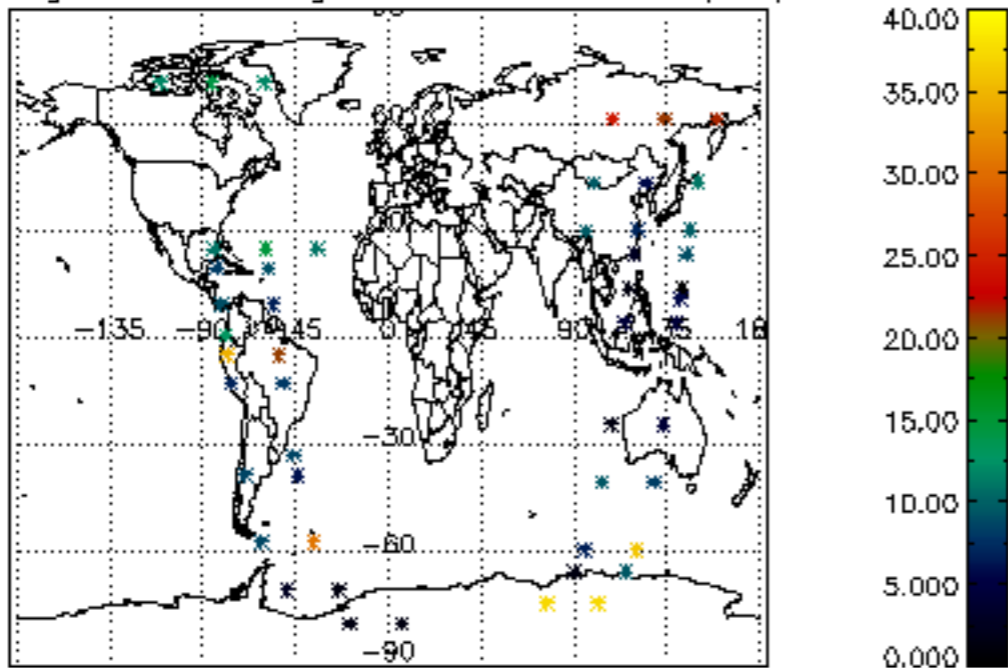
Percentage of cosmic ray hits per profile



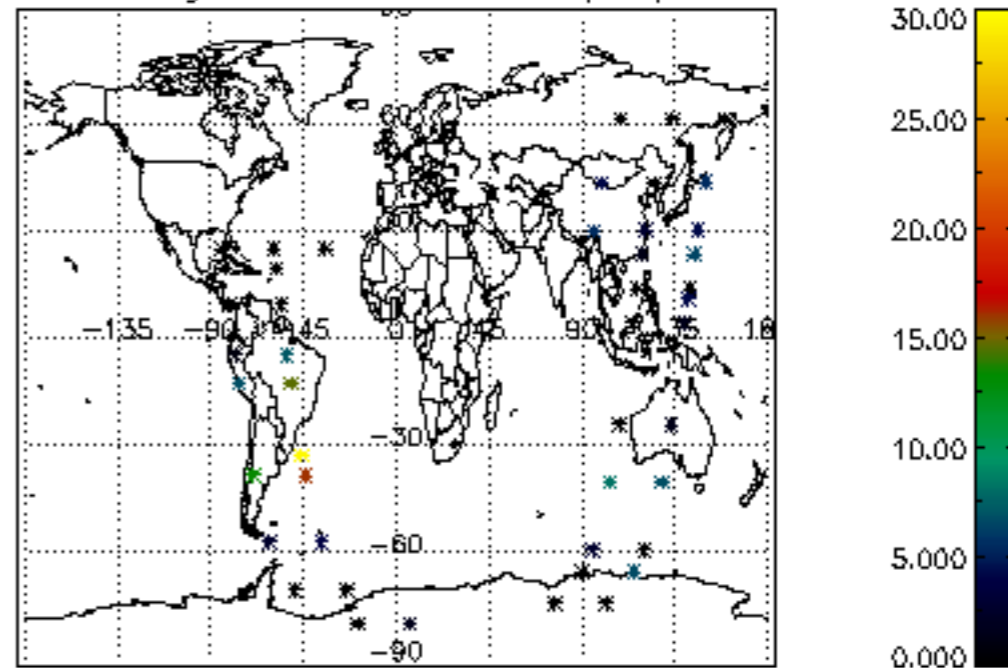
Percentage of datation errors per profile



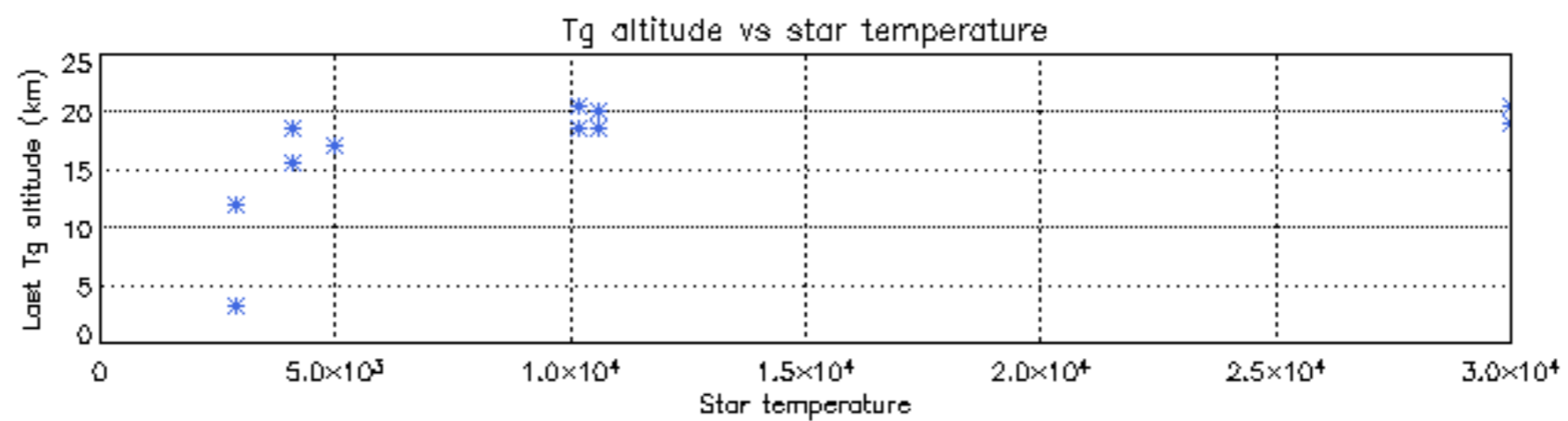
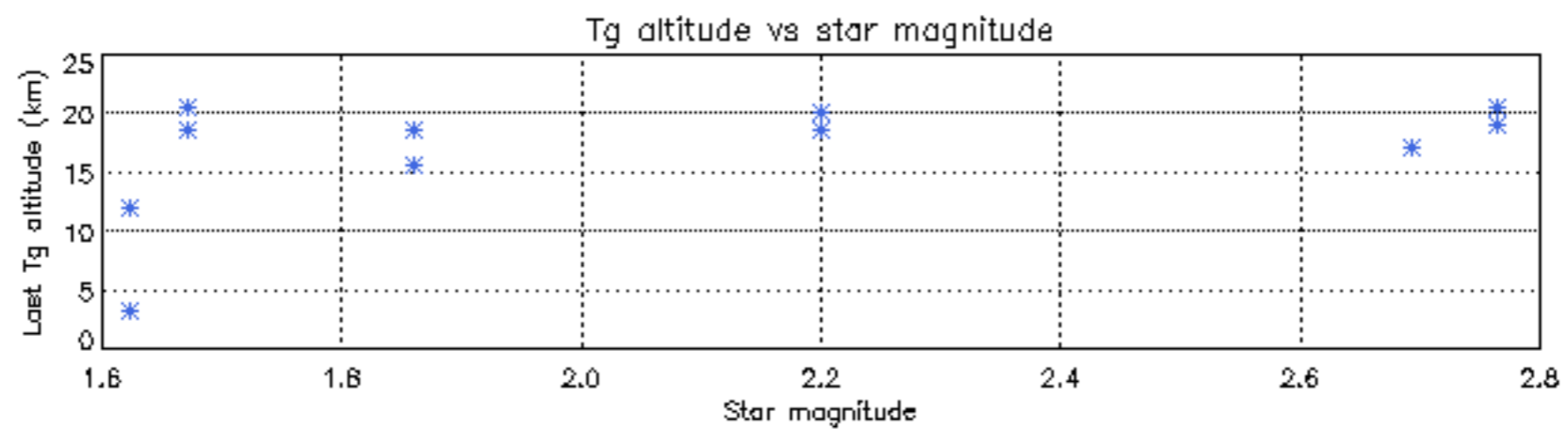
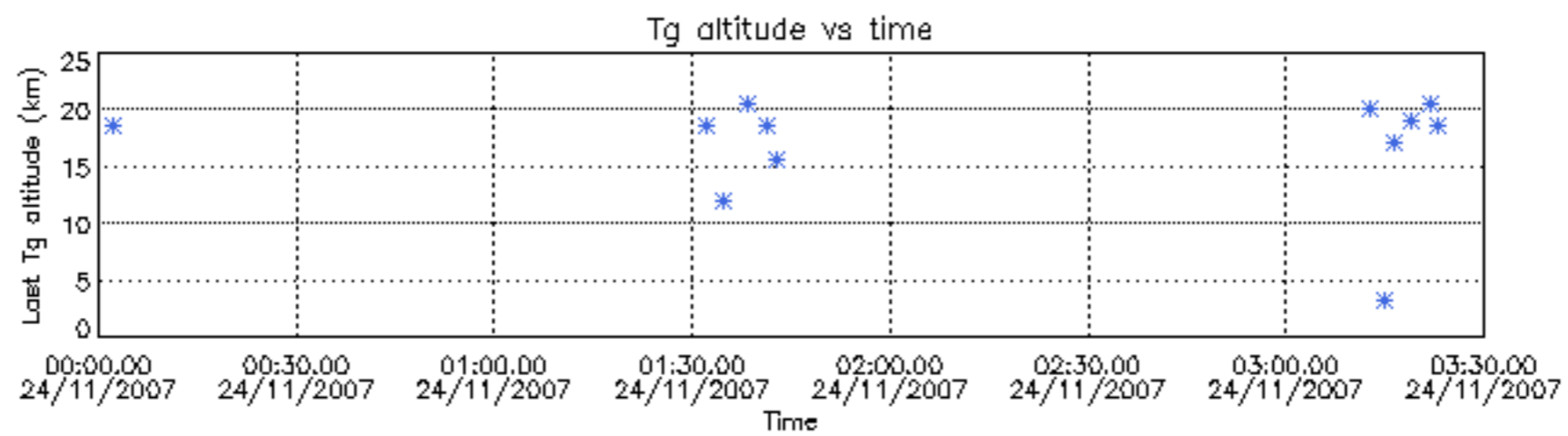
Percentage of star falling outside central band per profile



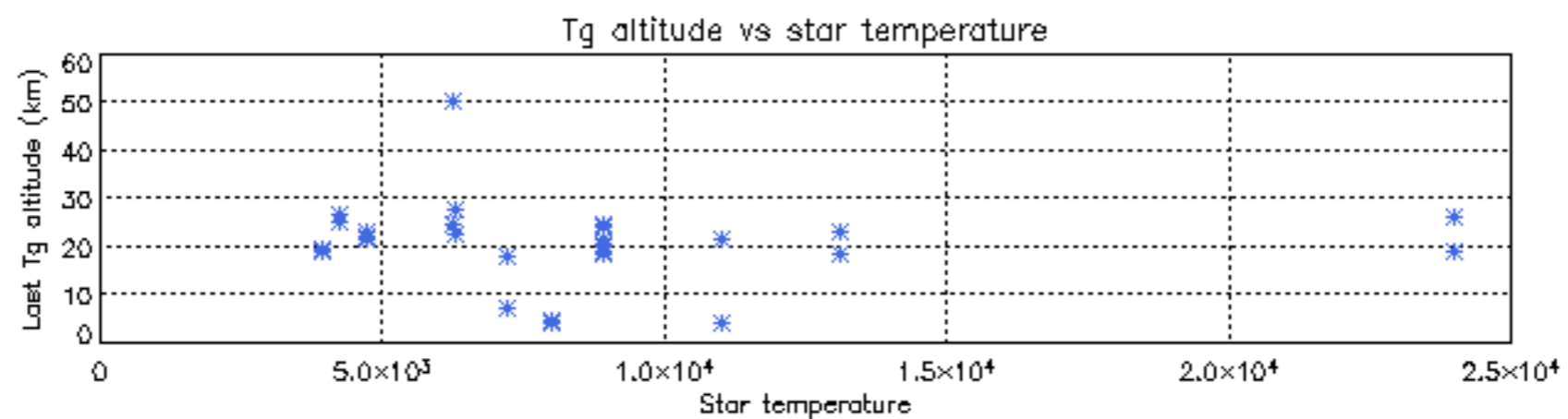
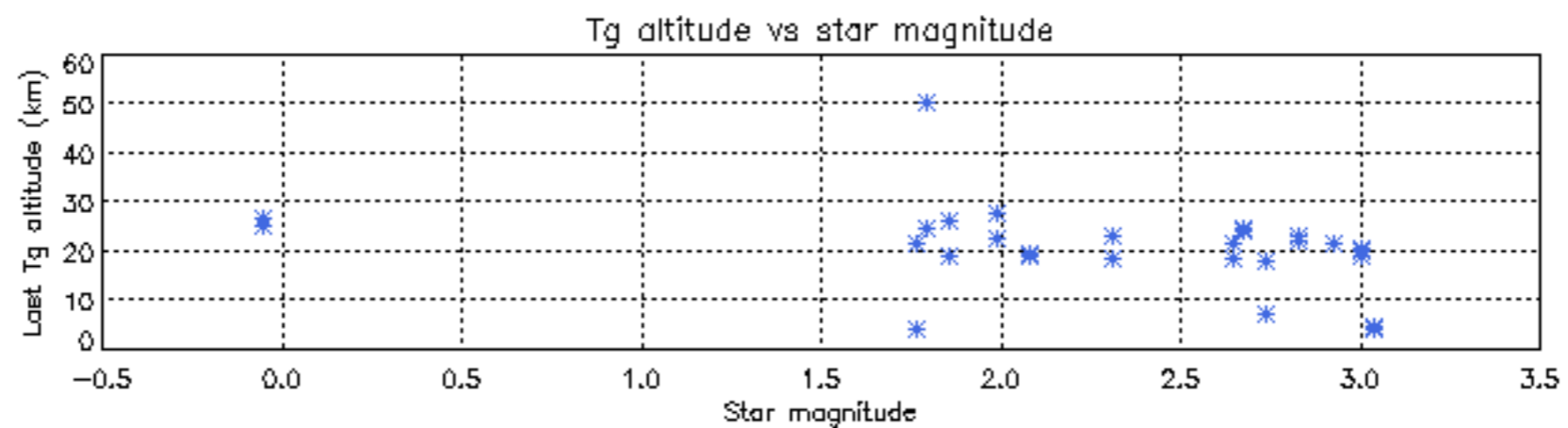
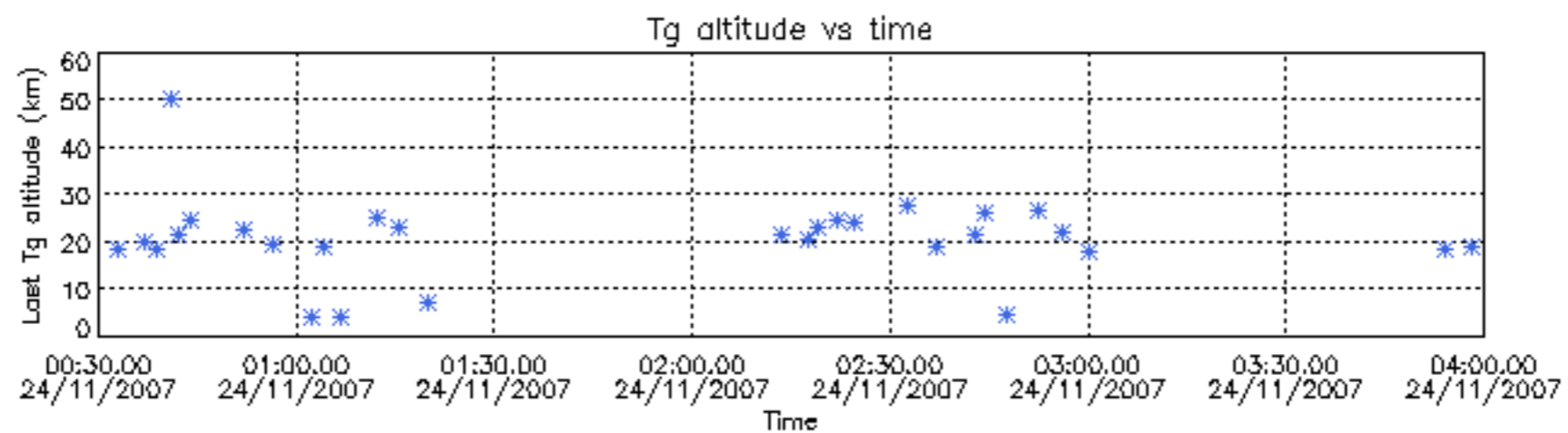
Percentage of saturation errors per profile



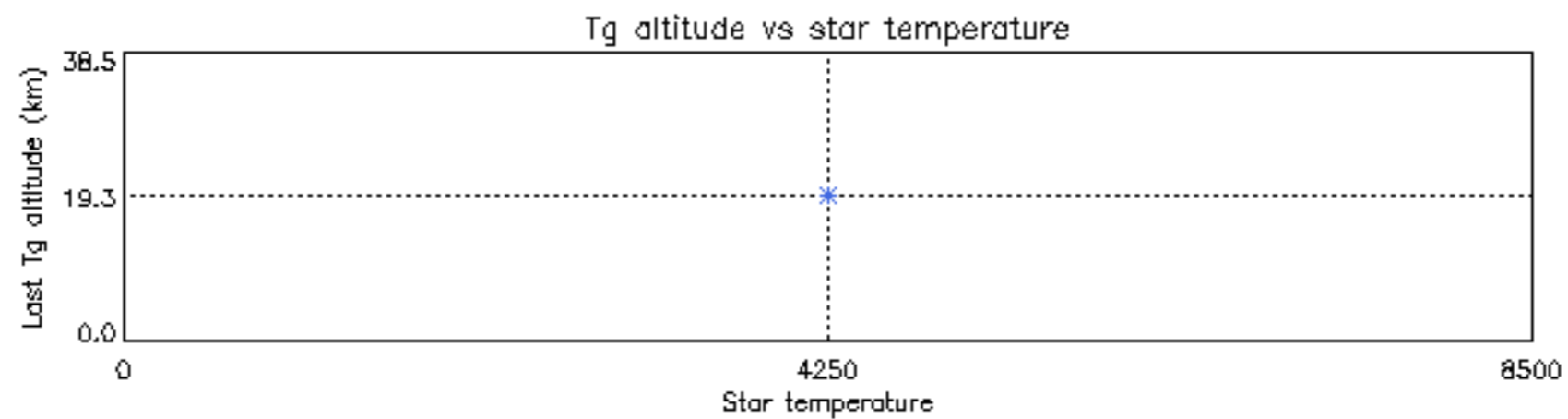
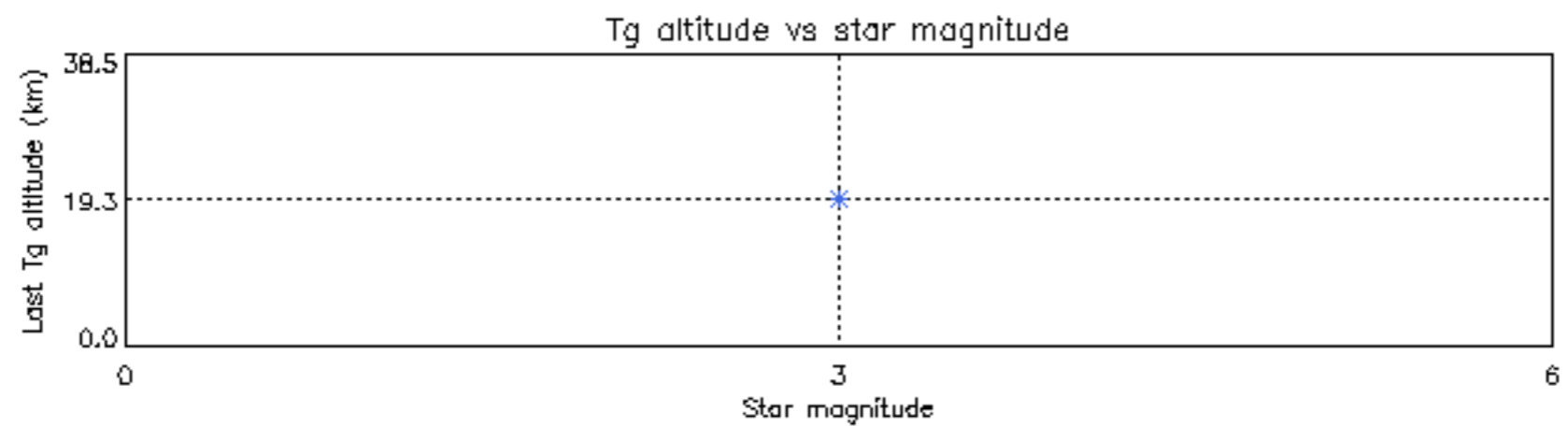
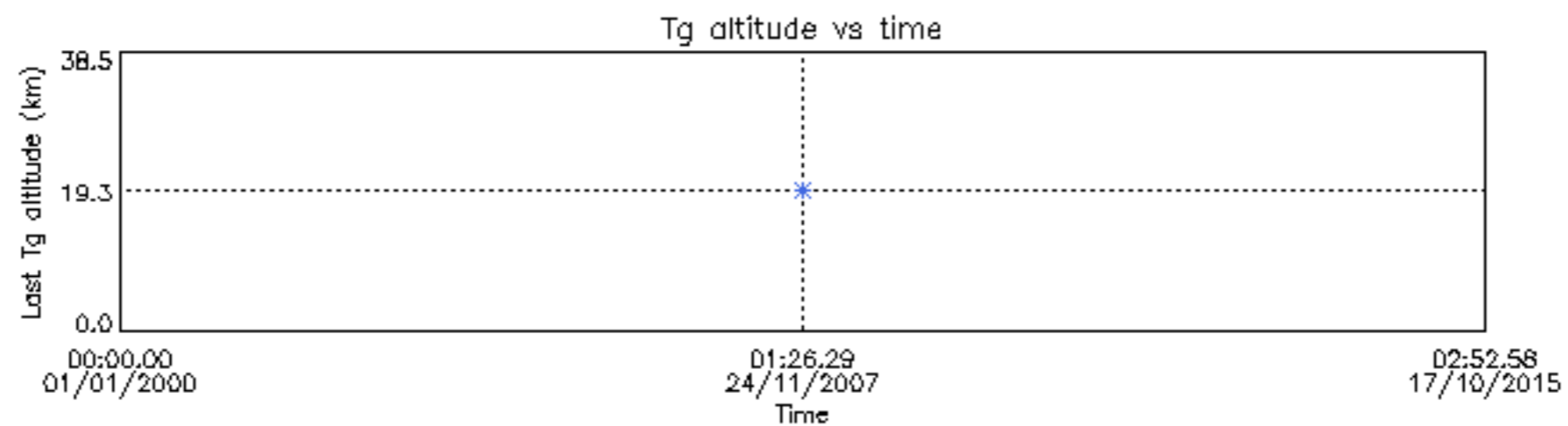
Tangent altitude at which the star is lost

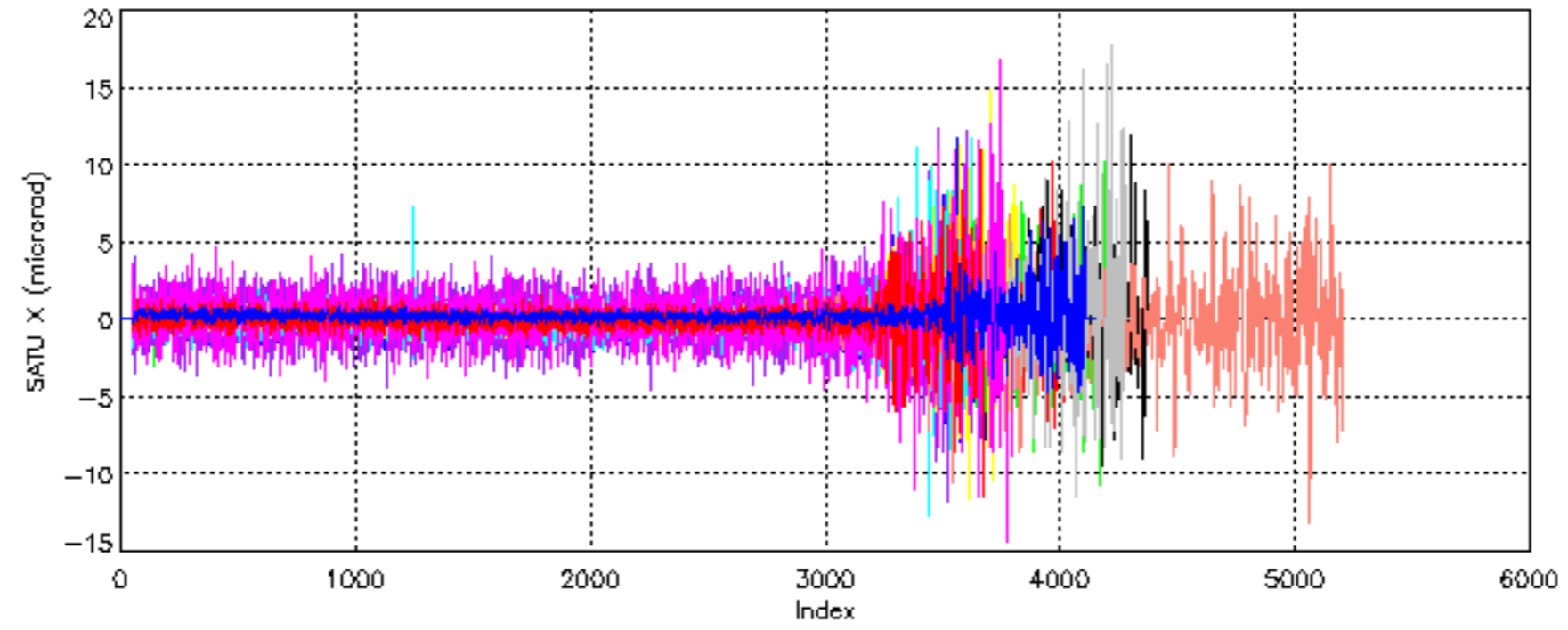


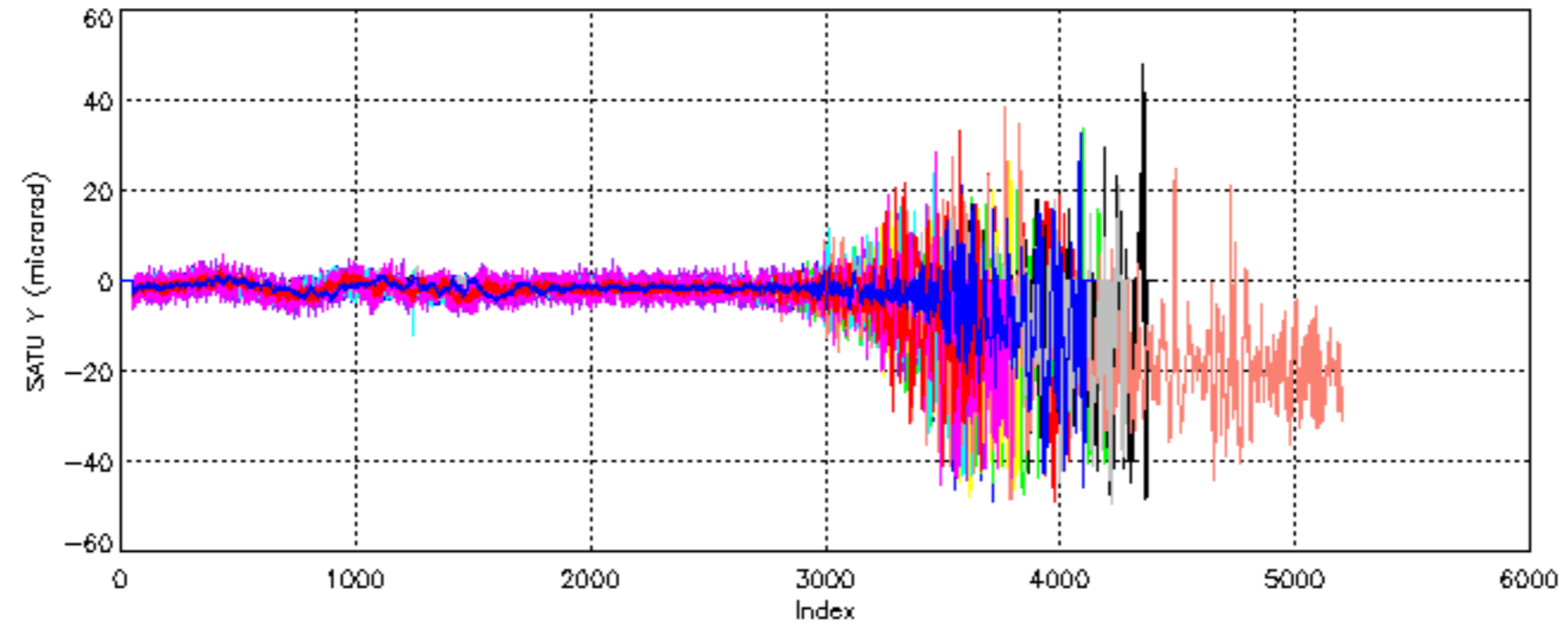
Tangent altitude at which the star is lost

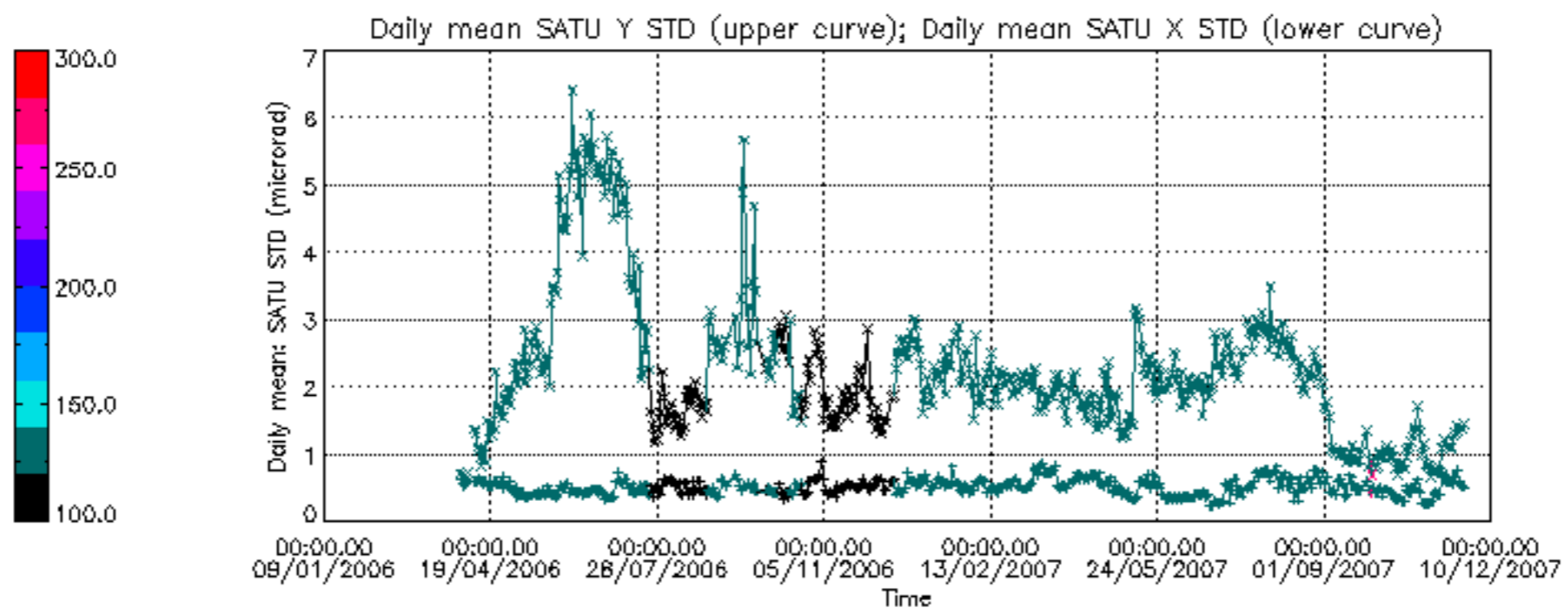


Tangent altitude at which the star is lost









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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
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 15; 4229.4; 01-NOV-2007 01:27:59; Bright; 56.0; 174; 52Psi UMa ; 3.00; 4400;occ; 112; 0;29644
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 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
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 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
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 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
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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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 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
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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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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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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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 22; 6493.8; 28-NOV-2007 09:39:48; Dark ; 42.0; 41; Eps Car ; 1.86; 4100;occ; 84; 0;30035
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 4; 2482.3; 28-NOV-2007 10:13:33; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;30036
 5; 2608.7; 28-NOV-2007 10:15:39; Bright; 37.0; 79; 26Bet Per ; 2.31; 13100;occ; 74; 0;30036
 6; 2747.9; 28-NOV-2007 10:17:58; Bright; 37.0; 175; 39Del Per ; 3.01; 19400;occ; 74; 0;30036
 7; 3421.8; 28-NOV-2007 10:29:12; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30036
 8; 3699.5; 28-NOV-2007 10:33:50; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;30036
 9; 4018.0; 28-NOV-2007 10:39:08; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000;occ; 77; 0;30036
 10; 4136.7; 28-NOV-2007 10:41:07; Bright; 35.0; 39; 85Eta UMa ; 1.85; 24000;occ; 70; 0;30036
 11; 4306.8; 28-NOV-2007 10:43:57; Bright; 33.0; 180; 27Gam Boo ; 3.04; 8000;occ; 66; 0;30036
 12; 4637.0; 28-NOV-2007 10:49:27; Bright; 33.5; 3; 16Alp Boo ; -0.05; 4250;occ; 67; 0;30036
 13; 4844.1; 28-NOV-2007 10:52:54; Bright; 38.5; 138; 47Eps Vir ; 2.83; 4700;occ; 77; 0;30036
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 22; 6494.5; 28-NOV-2007 11:20:25; Dark ; 44.0; 41; Eps Car ; 1.86; 4100;occ; 88; 0;30036
 23; 6819.9; 28-NOV-2007 11:25:50; Dark ; 56.0; 2; Alp Car ; -0.74; 7000;occ; 112; 0;30036

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9; 4017.9; 28-NOV-2007 12:19:44; Bright; 48.5; 32; 77Eps UMa ; 1.76; 11000;occ; 97; 0;30037
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11; 4307.0; 28-NOV-2007 12:24:33; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70; 0;30037
12; 4637.2; 28-NOV-2007 12:30:03; Bright; 33.5; 3; 16Alp Boo ; -0.05; 4250;occ; 67; 0;30037
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17; 5522.5; 28-NOV-2007 12:44:49; Dark ; 46.0; 171; 2Eps Crv ; 3.00; 4250;occ; 92; 0;30037
18; 5869.4; 28-NOV-2007 12:50:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30037
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23; 6820.4; 28-NOV-2007 13:06:27; Dark ; 44.0; 2; Alp Car ; -0.74; 7000;occ; 88; 0;30037

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3; 2336.6; 28-NOV-2007 13:32:19; Bright; 38.5; 146; 25Eta Tau ; 2.87; 15200;occ; 77; 0;30038
4; 2481.7; 28-NOV-2007 13:34:44; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;30038
5; 2608.6; 28-NOV-2007 13:36:51; Bright; 37.0; 79; 26Bet Per ; 2.31; 13100;occ; 74; 0;30038
6; 2747.4; 28-NOV-2007 13:39:09; Bright; 42.5; 175; 39Del Per ; 3.01; 19400;occ; 85; 0;30038
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8; 3699.7; 28-NOV-2007 13:55:02; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;30038
9; 4017.9; 28-NOV-2007 14:00:20; Bright; 38.0; 32; 77Eps UMa ; 1.76; 11000;occ; 76; 0;30038
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16; 5377.4; 28-NOV-2007 14:22:59; Dark ; 42.5; 163; 7Del Crv ; 2.94; 11000;occ; 85; 0;30038
17; 5476.7; 28-NOV-2007 14:24:39; Dark ; 44.0; 106; 9Bet Crv ; 2.65; 5600;occ; 88; 0;30038
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19; 5870.0; 28-NOV-2007 14:31:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30038
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22; 6391.4; 28-NOV-2007 14:39:53; Dark ; 40.0; 29; Bet Car ; 1.67; 10200;occ; 80; 0;30038
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24; 6821.1; 28-NOV-2007 14:47:03; Dark ; 58.0; 2; Alp Car ; -0.74; 7000;occ; 116; 0;30038

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4; 2481.5; 28-NOV-2007 15:15:19; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;30039
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7; 3422.0; 28-NOV-2007 15:31:00; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30039
8; 3699.8; 28-NOV-2007 15:35:38; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;30039
9; 4017.9; 28-NOV-2007 15:40:56; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000;occ; 77; 0;30039
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 6; 2746.9; 28-NOV-2007 17:00:21; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;30040
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 21; 4638.5; 29-NOV-2007 00:14:16; Bright; 33.5; 3; 16Alp Boo ;-0.05; 4250;occ; 67; 0;30044
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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
11; 1658.7; 01-DEC-2007 00:01:58; Dark ; 44.5; 165; 34Gam Eri ; 2.95; 3200;occ; 89; 0;30073
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
15; 2605.9; 01-DEC-2007 00:17:45; Bright; 36.5; 79; 26Bet Per ; 2.31; 13100;occ; 73; 0;30073
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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20; 4015.4; 01-DEC-2007 00:41:15; Bright; 39.5; 32; 77Eps UMa ; 1.76; 11000;occ; 79; 0;30073
21; 4138.7; 01-DEC-2007 00:43:18; Bright; 36.0; 39; 85Eta UMa ; 1.85; 24000;occ; 72; 0;30073
22; 4312.4; 01-DEC-2007 00:46:12; Bright; 33.5; 180; 27Gam Boo ; 3.04; 8000;occ; 67; 0;30073
23; 4644.1; 01-DEC-2007 00:51:43; Bright; 33.5; 3; 16Alp Boo ; -0.05; 4250;occ; 67; 0;30073
24; 4857.3; 01-DEC-2007 00:55:17; Bright; 40.0; 138; 47Eps Vir ; 2.83; 4700;occ; 80; 0;30073
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