

GOMOS Daily Report 11-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	13NOV2007 05:40:29
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (11NOV2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (12NOV2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

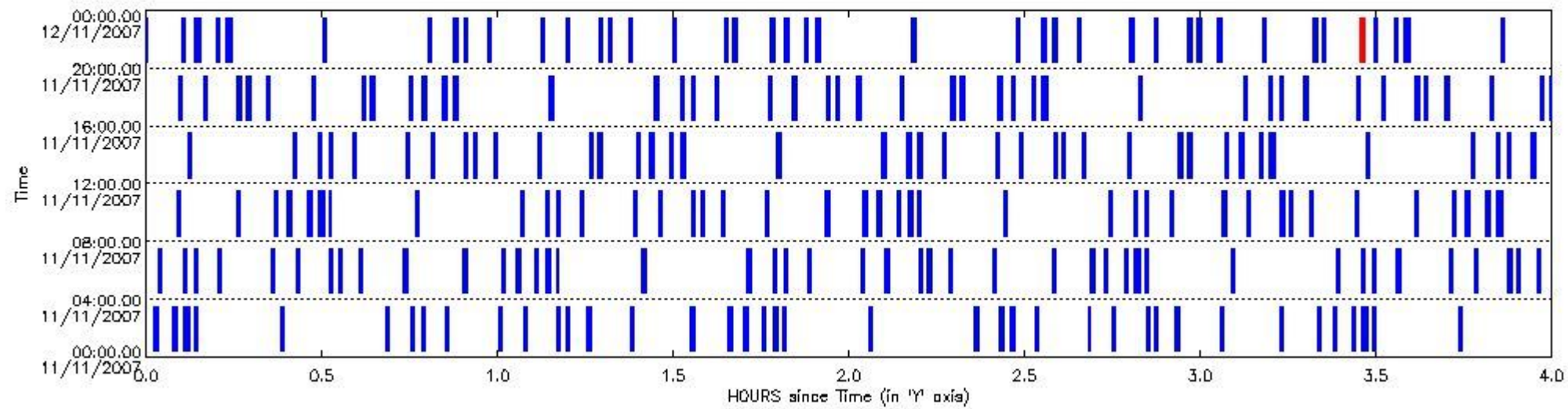
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

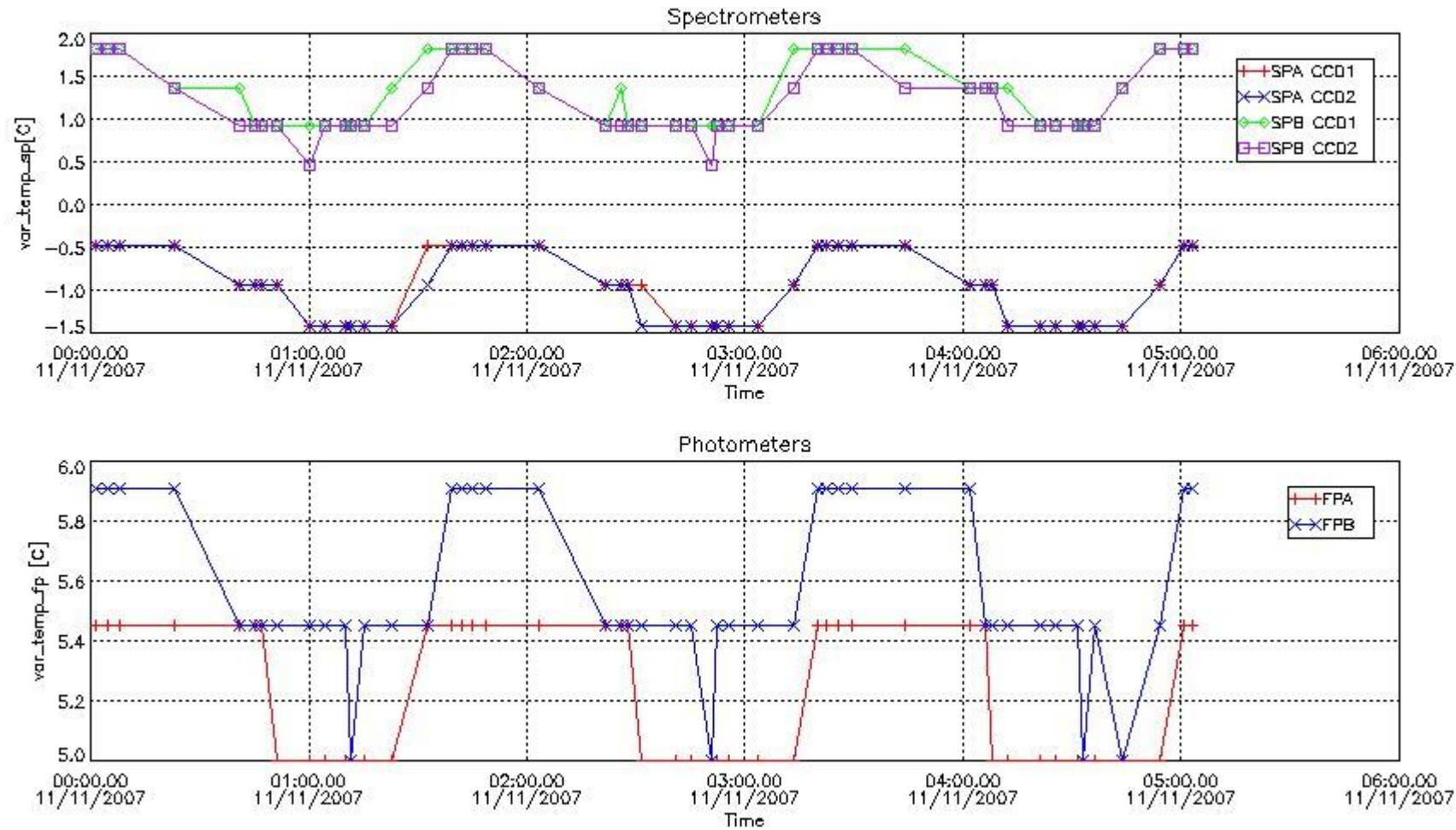
UTC start time	Star name	Star ID	Orbit
11-NOV-2007 23:27:11	GamCen	64	29800

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_1PNPDE20071111_000120_000000392063_00173_29786_2317.N1	11-NOV-2007 00:01:20	Dark	38.500	113	Mu Vel	2.6920	5000.0	77	29786	No
2	GOM_TRA_1PNPDE20071111_000433_000000372063_00174_29787_2318.N1	11-NOV-2007 00:04:33	Dark	37.000	124	The Car	2.7640	30000.	74	29787	No
3	GOM_TRA_1PNPDE20071111_000807_000000312063_00174_29787_2319.N1	11-NOV-2007 00:08:07	Dark	31.000	41	Eps Car	1.8600	4100.0	62	29787	No
4	GOM_TRA_1PNPDE20071111_002249_000000402063_00174_29787_2320.N1	11-NOV-2007 00:22:49	Straylight	39.500	157	The1Eri	2.9060	9300.0	79	29787	No
5	GOM_TRA_1PNPDE20071111_004049_000000382063_00174_29787_2321.N1	11-NOV-2007 00:40:49	Bright	37.500	105	6Bet Ari	2.6450	8900.0	75	29787	No
6	GOM_TRA_1PNPDE20071111_004506_000000382063_00174_29787_2322.N1	11-NOV-2007 00:45:06	Bright	37.500	53	43Bet And	2.0480	3300.0	75	29787	No
7	GOM_TRA_1PNPDE20071111_004701_000000382063_00174_29787_2323.N1	11-NOV-2007 00:47:01	Bright	38.000	73	57Gam1And	2.2600	13100.	76	29787	No
8	GOM_TRA_1PNPDE20071111_005104_000000362063_00174_29787_2324.N1	11-NOV-2007 00:51:04	Bright	36.000	68	18Alp Cas	2.2250	4500.0	72	29787	No
9	GOM_TRA_1PNPDE20071111_010010_000000342063_00174_29787_2325.N1	11-NOV-2007 01:00:10	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	29787	No
10	GOM_TRA_1PNPDE20071111_010422_000000362063_00174_29787_2326.N1	11-NOV-2007 01:04:22	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	29787	No

11	GOM_TRA_1PNPDE20071111_011005_000000362063_00174_29787_2327.N1	11-NOV-2007 01:10:05	Bright	36.000	32	77Eps UMa	1.7630	11000.	72	29787	No
12	GOM_TRA_1PNPDE20071111_011137_000000362063_00174_29787_2328.N1	11-NOV-2007 01:11:37	Bright	36.000	39	85Eta UMa	1.8540	24000.	72	29787	No
13	GOM_TRA_1PNPDE20071111_011507_000000522063_00174_29787_2329.N1	11-NOV-2007 01:15:07	Bright	52.000	152	12Alp2CVn	2.8900	11000.	104	29787	No
14	GOM_TRA_1PNPDE20071111_012245_000000332063_00174_29787_2330.N1	11-NOV-2007 01:22:45	Bright	32.500	138	47Eps Vir	2.8280	4700.0	65	29787	No
15	GOM_TRA_1PNPDE20071111_013252_000000422063_00174_29787_2441.N1	11-NOV-2007 01:32:52	Twilight	42.000	171	2Eps Crv	3.0010	4250.0	84	29787	No
16	GOM_TRA_1PNPDE20071111_013923_000000412063_00174_29787_2442.N1	11-NOV-2007 01:39:23	Dark	40.500	64	Gam Cen	2.2000	10600.	81	29787	No
17	GOM_TRA_1PNPDE20071111_014156_000000432063_00174_29787_2443.N1	11-NOV-2007 01:41:56	Dark	42.500	113	Mu Vel	2.6920	5000.0	85	29787	No
18	GOM_TRA_1PNPDE20071111_014509_000000382063_00175_29788_2444.N1	11-NOV-2007 01:45:09	Dark	37.500	124	The Car	2.7640	30000.	75	29788	No
19	GOM_TRA_1PNPDE20071111_014843_000000292063_00175_29788_2445.N1	11-NOV-2007 01:48:43	Dark	29.000	41	Eps Car	1.8600	4100.0	58	29788	No
20	GOM_TRA_1PNPDE20071111_020325_000000382063_00175_29788_2446.N1	11-NOV-2007 02:03:25	Straylight	38.000	157	The1Eri	2.9060	9300.0	76	29788	No
21	GOM_TRA_1PNPDE20071111_022125_000000362063_00175_29788_2447.N1	11-NOV-2007 02:21:25	Bright	36.000	105	6Bet Ari	2.6450	8900.0	72	29788	No
22	GOM_TRA_1PNPDE20071111_022542_000000392063_00175_29788_2448.N1	11-NOV-2007 02:25:42	Bright	38.500	53	43Bet And	2.0480	3300.0	77	29788	No
23	GOM_TRA_1PNPDE20071111_022737_000000392063_00175_29788_2449.N1	11-NOV-2007 02:27:37	Bright	38.500	73	57Gam1And	2.2600	13100.	77	29788	No
24	GOM_TRA_1PNPDE20071111_023140_000000372063_00175_29788_2450.N1	11-NOV-2007 02:31:40	Bright	36.500	68	18Alp Cas	2.2250	4500.0	73	29788	No
25	GOM_TRA_1PNPDE20071111_024045_000000322063_00175_29788_2451.N1	11-NOV-2007 02:40:45	Bright	31.500	49	1Alp UMi	1.9900	6300.0	63	29788	No
26	GOM_TRA_1PNPDE20071111_024458_000000362063_00175_29788_2628.N1	11-NOV-2007 02:44:58	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	29788	No
27	GOM_TRA_1PNPDE20071111_025041_000000372063_00175_29788_2629.N1	11-NOV-2007 02:50:41	Bright	37.000	32	77Eps UMa	1.7630	11000.	74	29788	No
28	GOM_TRA_1PNPDE20071111_025213_000000352063_00175_29788_2630.N1	11-NOV-2007 02:52:13	Bright	35.000	39	85Eta UMa	1.8540	24000.	70	29788	No
29	GOM_TRA_1PNPDE20071111_025543_000000352063_00175_29788_2631.N1	11-NOV-2007 02:55:43	Bright	34.500	152	12Alp2CVn	2.8900	11000.	69	29788	No
30	GOM_TRA_1PNPDE20071111_030321_000000332063_00175_29788_2632.N1	11-NOV-2007 03:03:21	Bright	33.000	138	47Eps Vir	2.8280	4700.0	66	29788	No
31	GOM_TRA_1PNPDE20071111_031329_000000442063_00175_29788_2633.N1	11-NOV-2007 03:13:29	Twilight	43.500	171	2Eps Crv	3.0010	4250.0	87	29788	No
32	GOM_TRA_1PNPDE20071111_032000_000000372063_00175_29788_2634.N1	11-NOV-2007 03:20:00	Dark	37.000	64	Gam Cen	2.2000	10600.	74	29788	No
33	GOM_TRA_1PNPDE20071111_032233_000000402063_00175_29788_2635.N1	11-NOV-2007 03:22:33	Dark	39.500	113	Mu Vel	2.6920	5000.0	79	29788	No
34	GOM_TRA_1PNPDE20071111_032546_000000362063_00176_29789_2636.N1	11-NOV-2007 03:25:46	Dark	35.500	124	The Car	2.7640	30000.	71	29789	No
35	GOM_TRA_1PNPDE20071111_032920_000000292063_00176_29789_2637.N1	11-NOV-2007 03:29:20	Dark	29.000	41	Eps Car	1.8600	4100.0	58	29789	No
36	GOM_TRA_1PNPDE20071111_034402_000000392063_00176_29789_2638.N1	11-NOV-2007 03:44:02	Straylight	39.000	157	The1Eri	2.9060	9300.0	78	29789	No
37	GOM_TRA_1PNPDE20071111_040201_000000372063_00176_29789_2639.N1	11-NOV-2007 04:02:01	Bright	37.000	105	6Bet Ari	2.6450	8900.0	74	29789	No
38	GOM_TRA_1PNPDE20071111_040619_000000382063_00176_29789_2640.N1	11-NOV-2007 04:06:19	Bright	37.500	53	43Bet And	2.0480	3300.0	75	29789	No
39	GOM_TRA_1PNPDE20071111_040812_000000392063_00176_29789_2641.N1	11-NOV-2007 04:08:12	Bright	38.500	73	57Gam1And	2.2600	13100.	77	29789	No
40	GOM_TRA_1PNPDE20071111_041217_000000352063_00176_29789_2642.N1	11-NOV-2007 04:12:17	Bright	34.500	68	18Alp Cas	2.2250	4500.0	69	29789	No
41	GOM_TRA_1PNPDE20071111_042121_000000372063_00176_29789_2643.N1	11-NOV-2007 04:21:21	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	29789	No
42	GOM_TRA_1PNPDE20071111_042534_000000372063_00176_29789_2793.N1	11-NOV-2007 04:25:34	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	29789	No
43	GOM_TRA_1PNPDE20071111_043118_000000362063_00176_29789_2794.N1	11-NOV-2007 04:31:18	Bright	35.500	32	77Eps UMa	1.7630	11000.	71	29789	No
44	GOM_TRA_1PNPDE20071111_043249_000000362063_00176_29789_2795.N1	11-NOV-2007 04:32:49	Bright	35.500	39	85Eta UMa	1.8540	24000.	71	29789	No
45	GOM_TRA_1PNPDE20071111_043619_000000372063_00176_29789_2796.N1	11-NOV-2007 04:36:19	Bright	37.000	152	12Alp2CVn	2.8900	11000.	74	29789	No
46	GOM_TRA_1PNPDE20071111_044357_000000332063_00176_29789_2797.N1	11-NOV-2007 04:43:57	Bright	33.000	138	47Eps Vir	2.8280	4700.0	66	29789	No
47	GOM_TRA_1PNPDE20071111_045405_000000432063_00176_29789_2798.N1	11-NOV-2007 04:54:05	Twilight	42.500	171	2Eps Crv	3.0010	4250.0	85	29789	No
48	GOM_TRA_1PNPDE20071111_050036_000000392063_00176_29789_2799.N1	11-NOV-2007 05:00:36	Dark	38.500	64	Gam Cen	2.2000	10600.	77	29789	No
49	GOM_TRA_1PNPDE20071111_050309_000000422063_00176_29789_2800.N1	11-NOV-2007 05:03:09	Dark	42.000	113	Mu Vel	2.6920	5000.0	84	29789	No

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



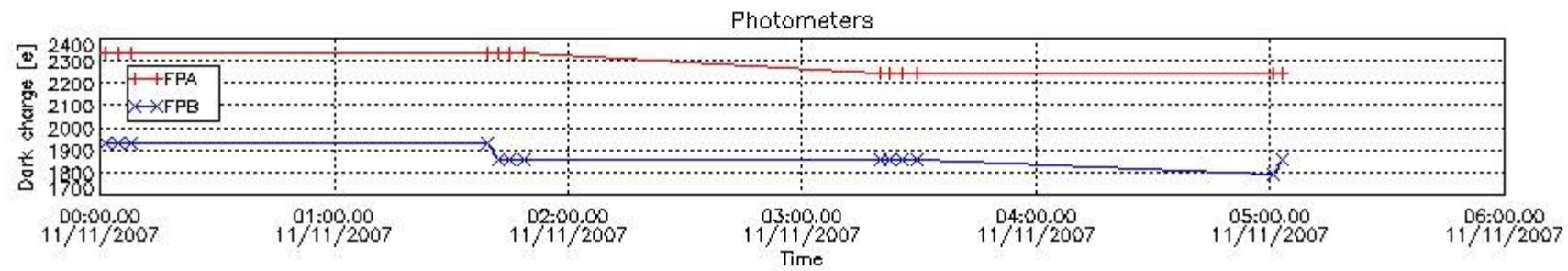
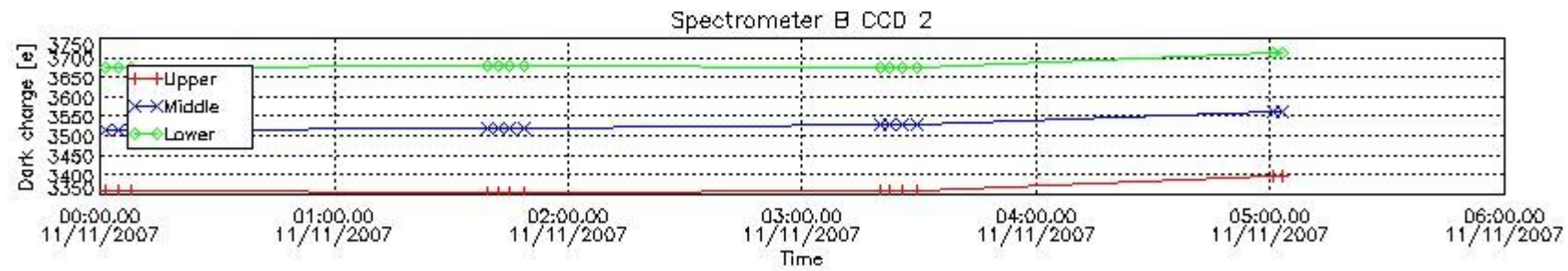
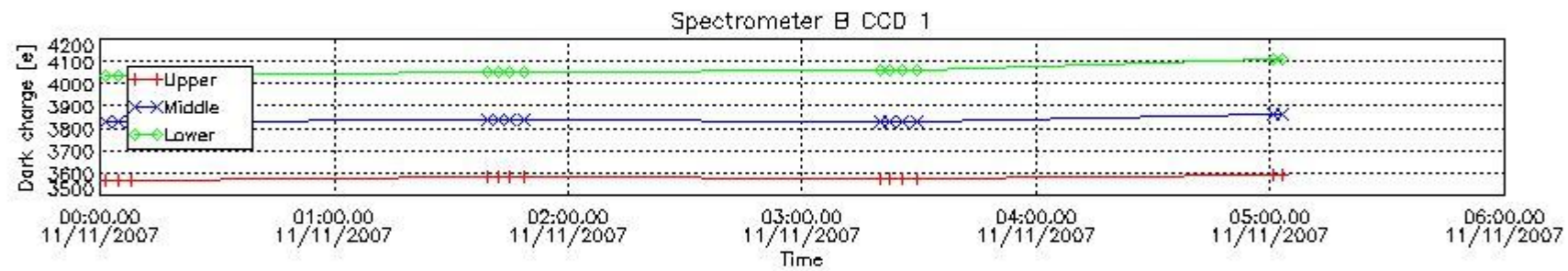
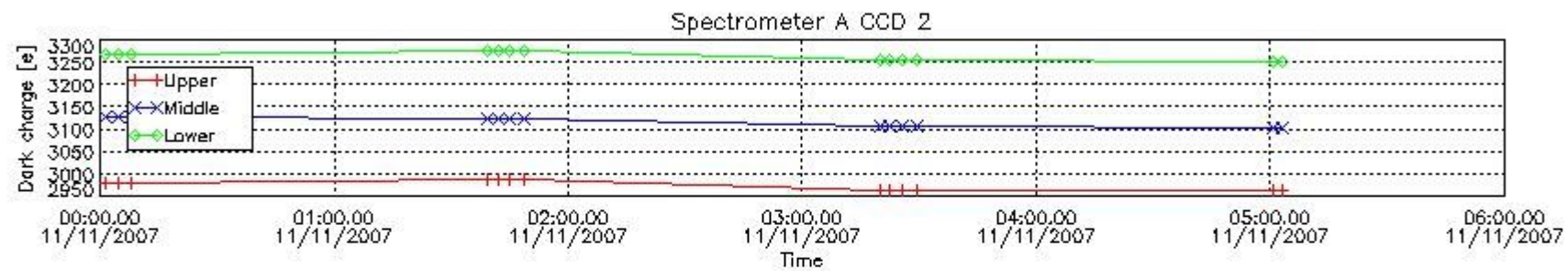
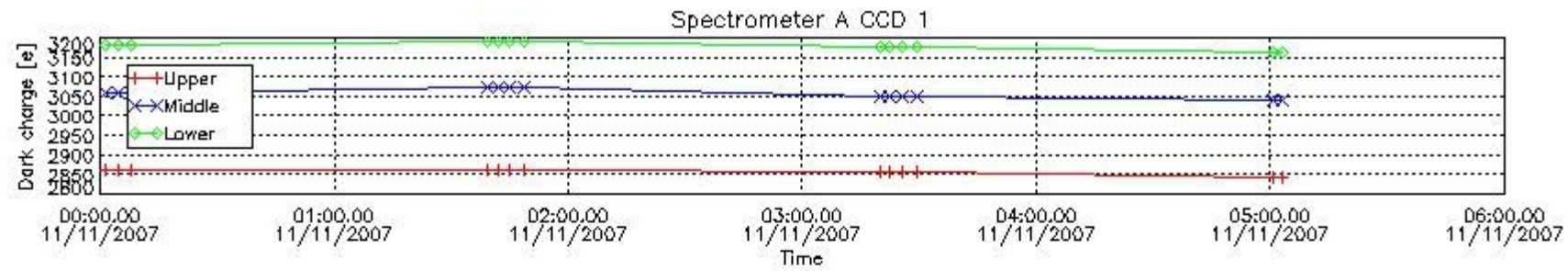
4. Overview of dark signal processing per product

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



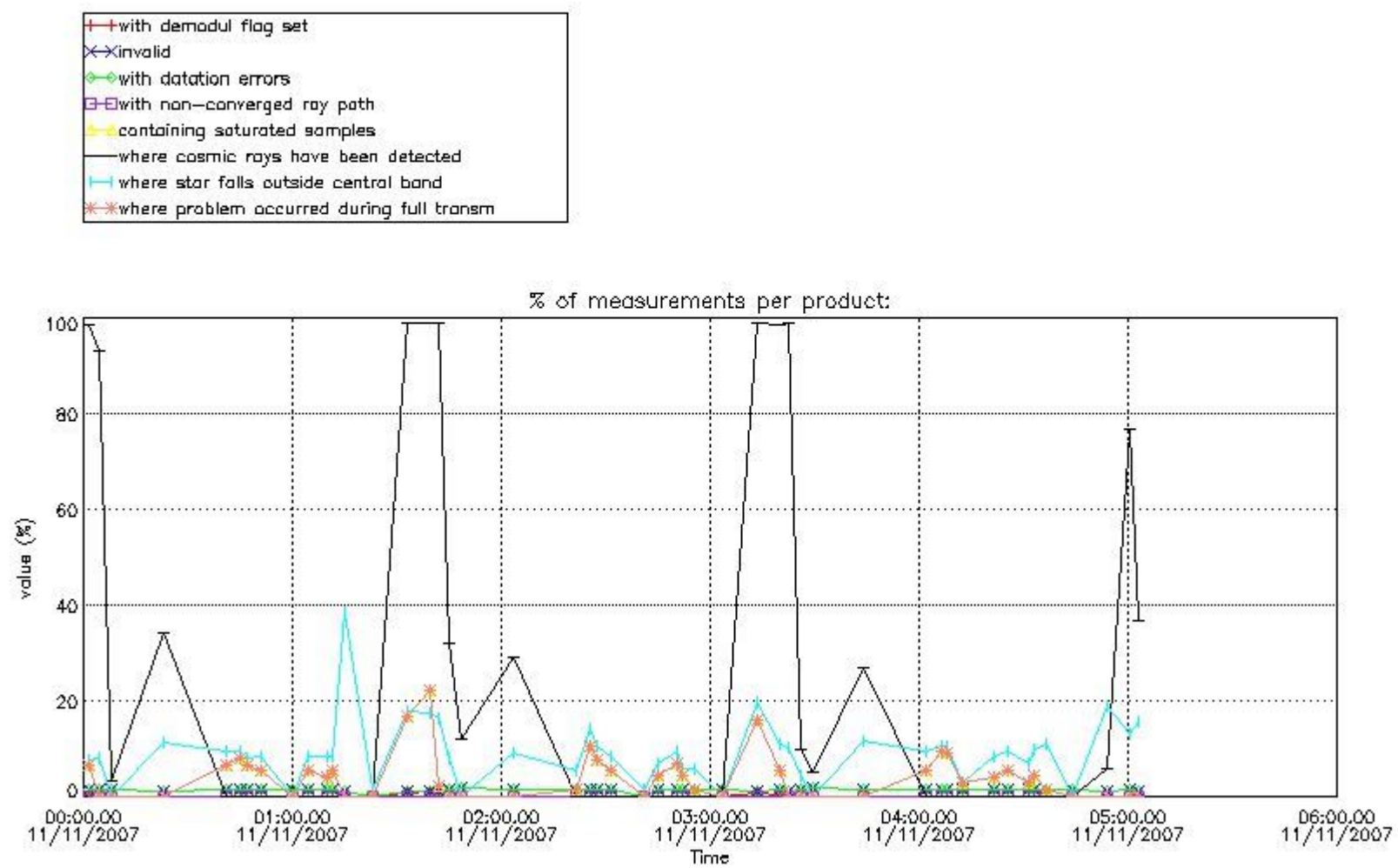
5. Demodulation flag and quality information monitoring

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.

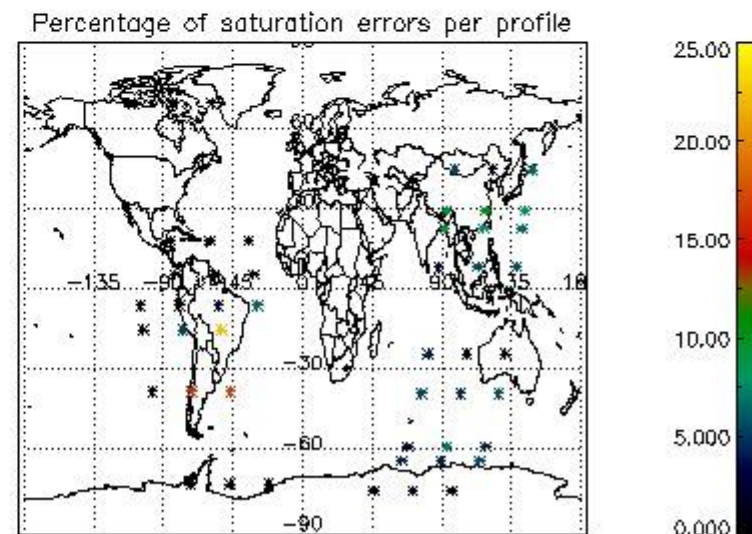
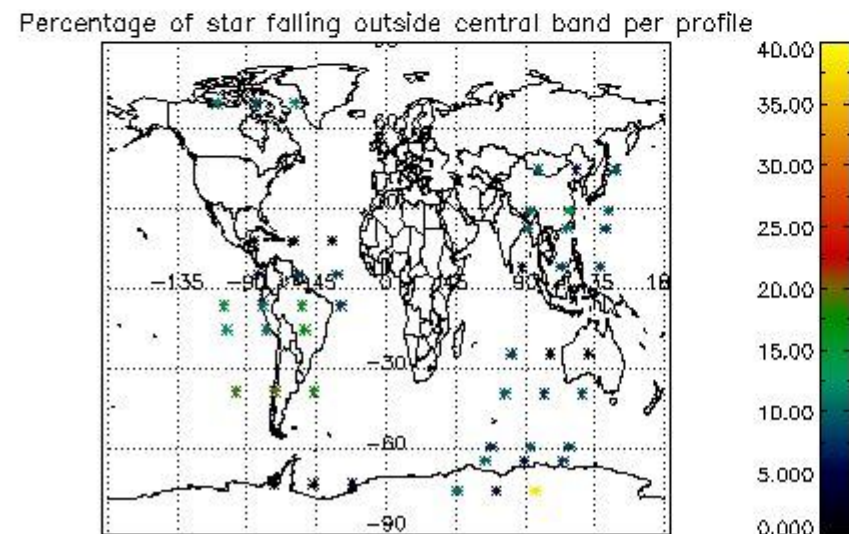
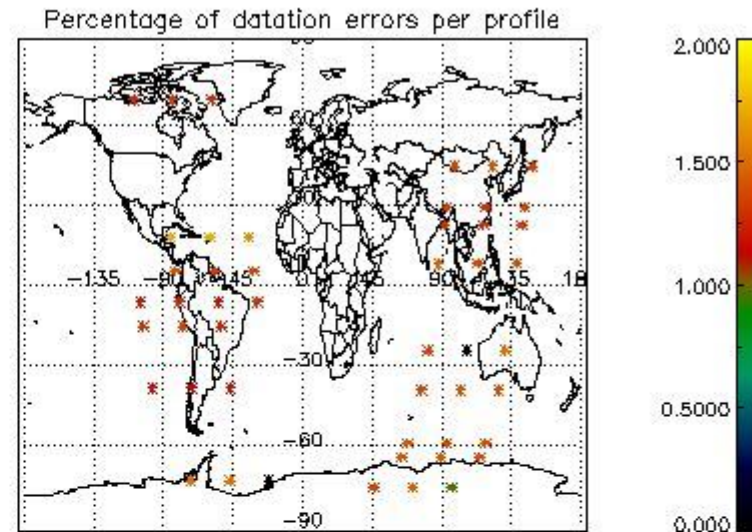
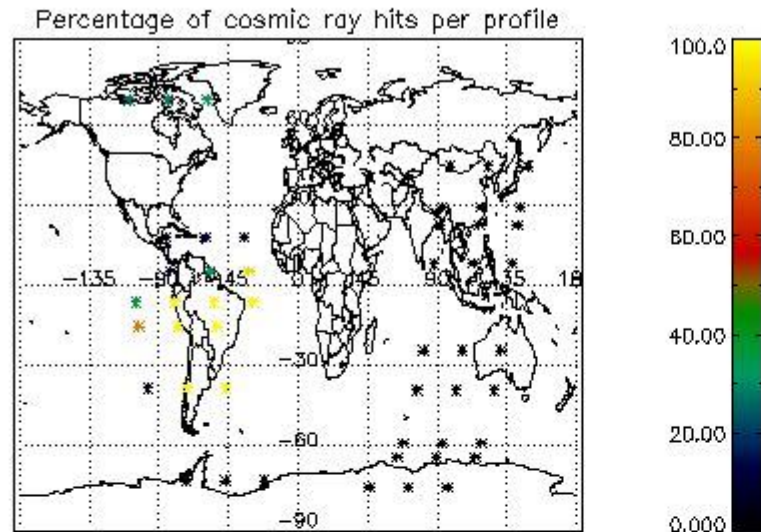
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	20.4082 %
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)



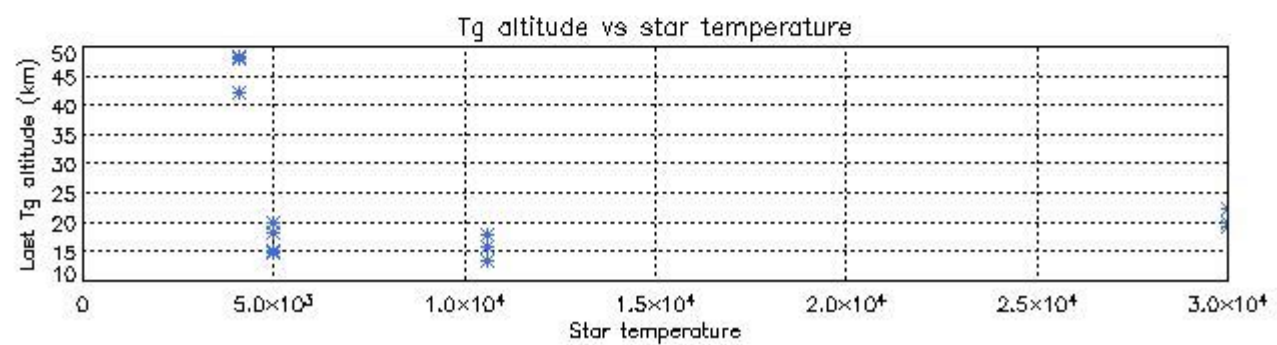
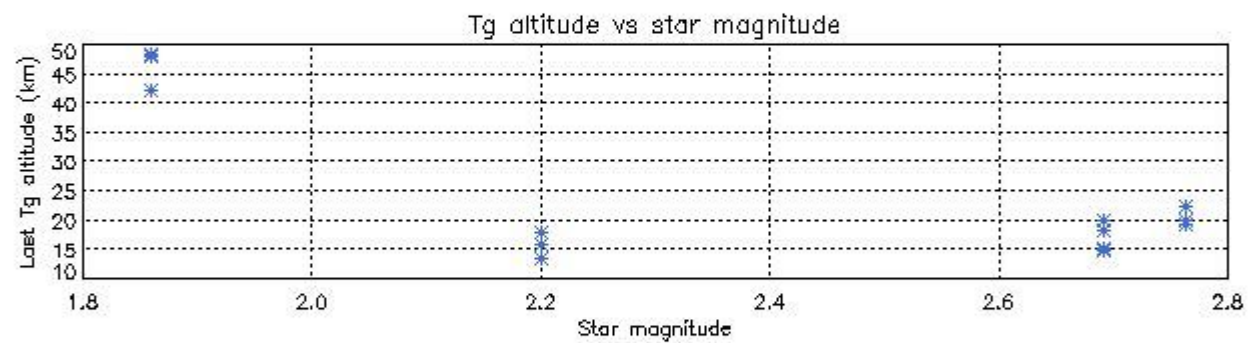
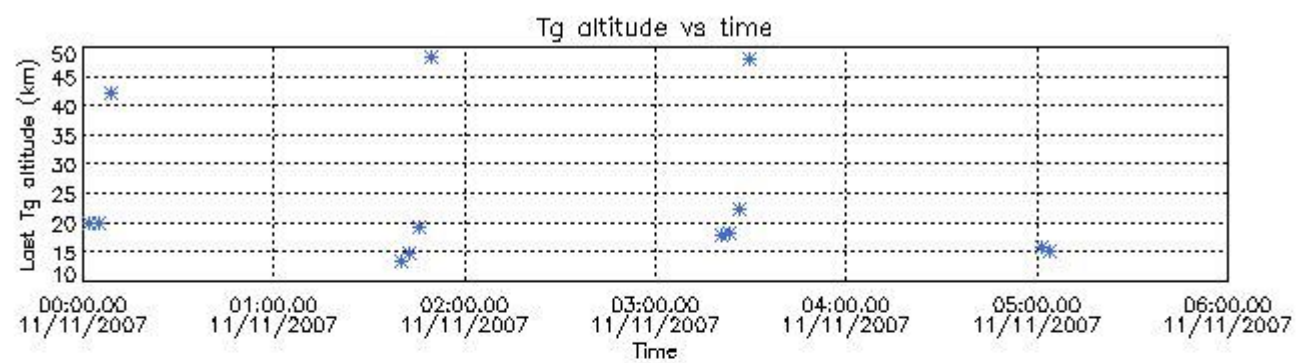
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	24.208	20.471	12.063
St. deviation:	12.820	4.6643	0.71384
Maximum:	48.211	31.844	12.695
Minimum:	13.276	4.1168	11.289
Number of data:	13.000	30.000	3.0000

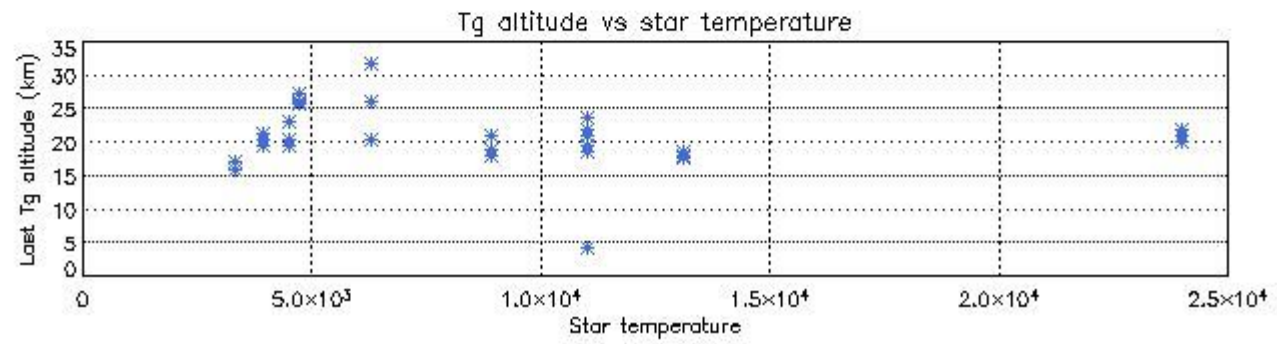
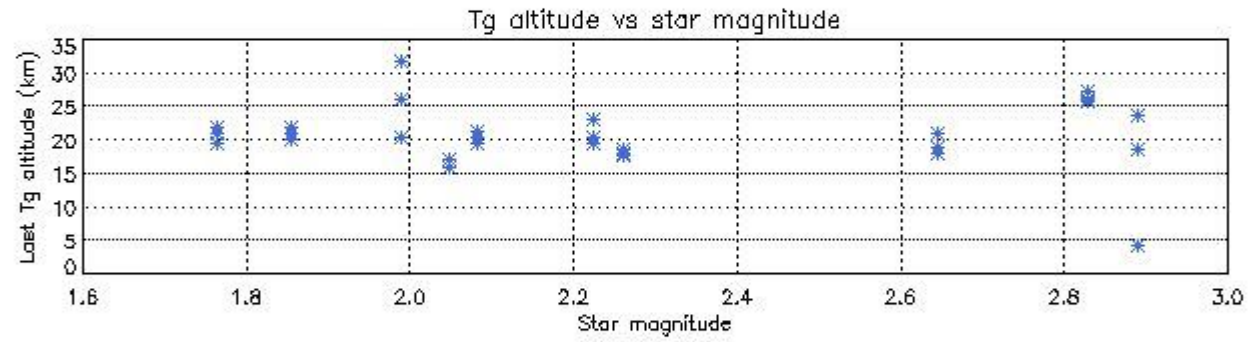
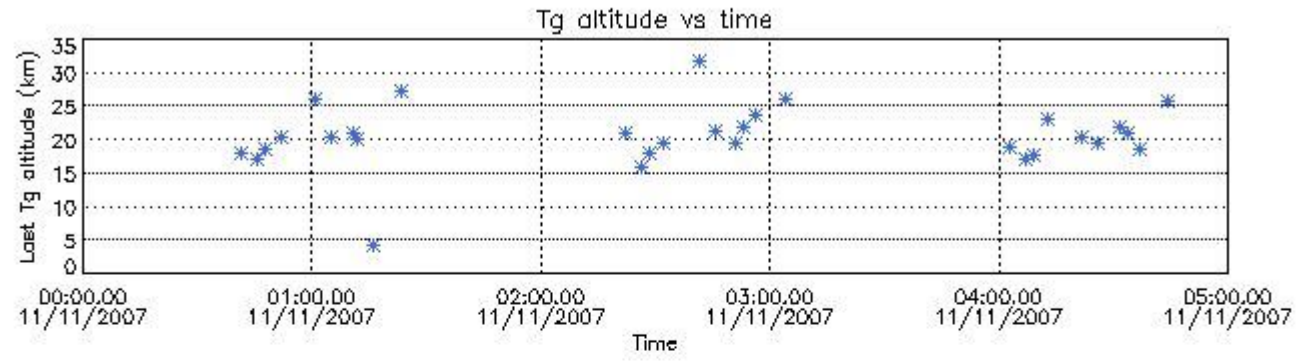
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



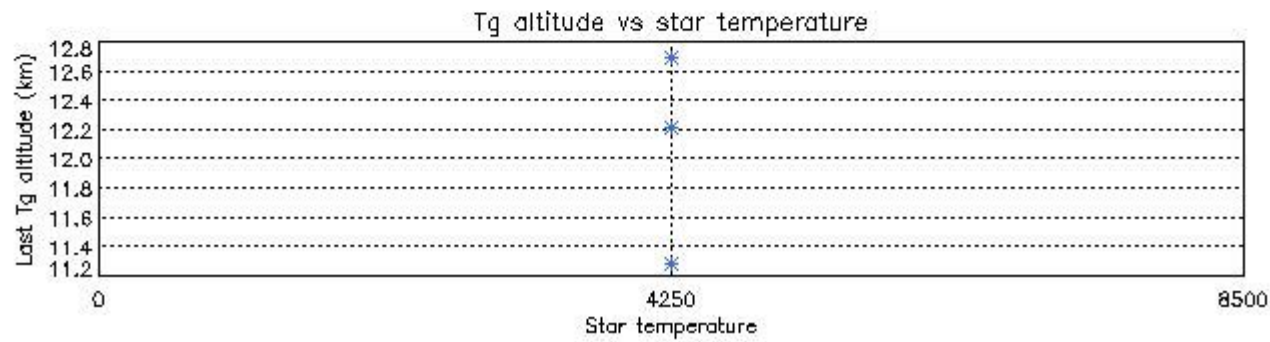
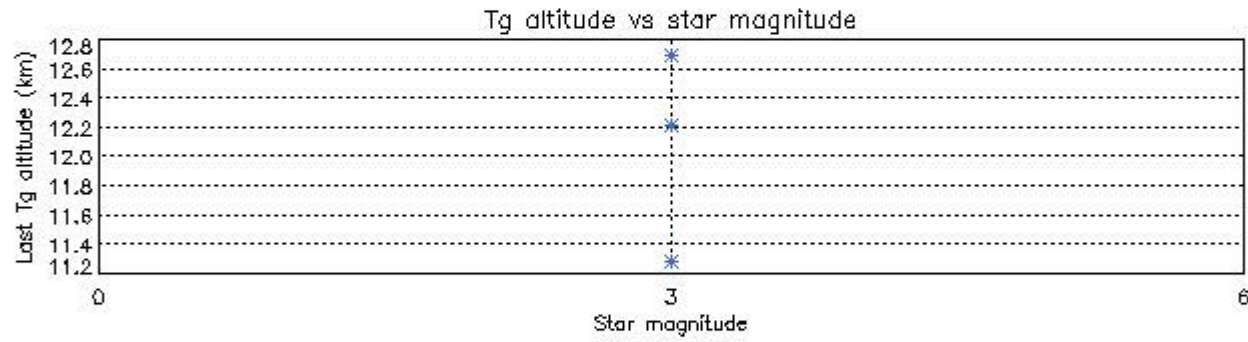
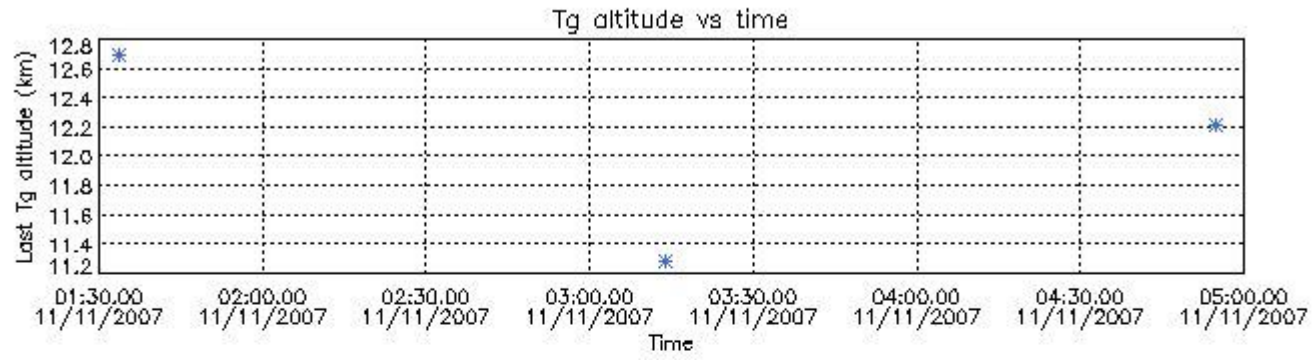
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

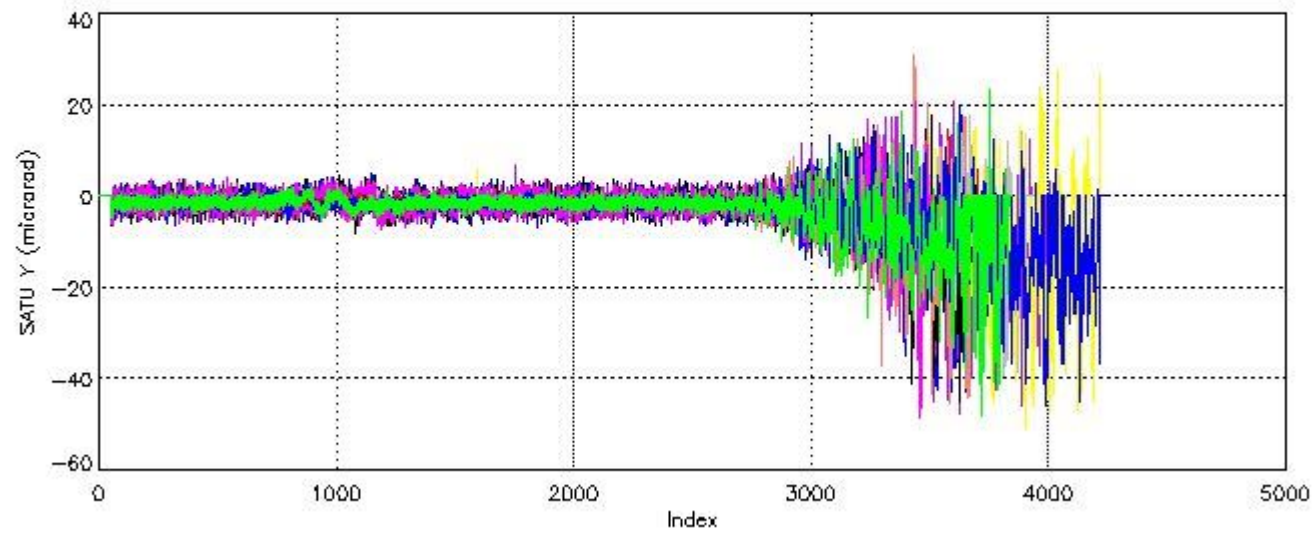
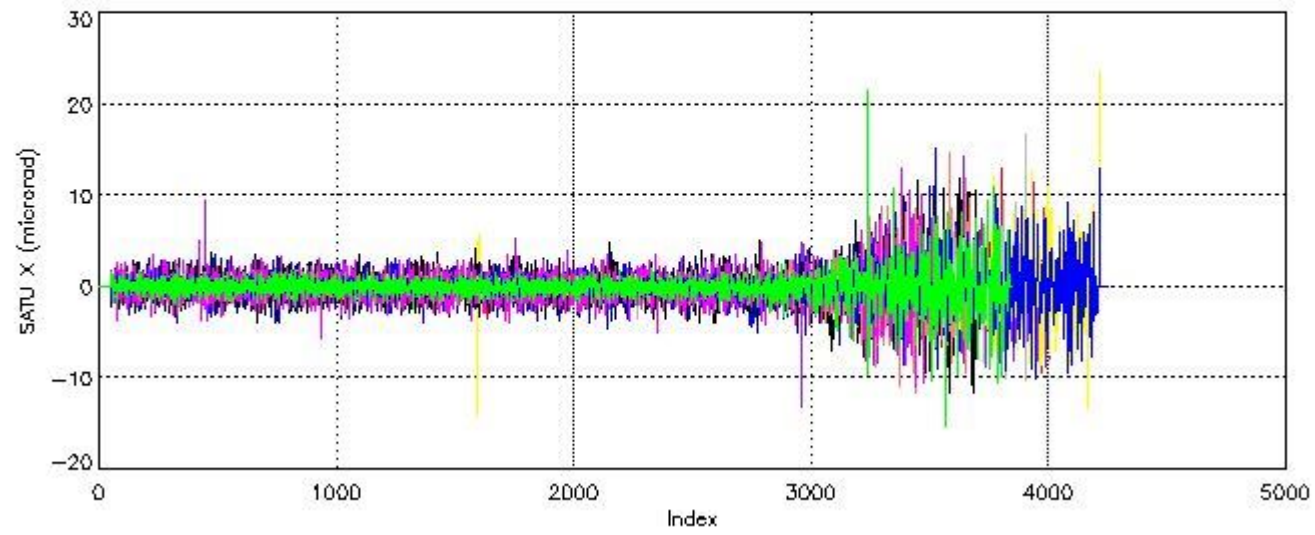


7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.055476	-1.2952	-0.010043	-1.3303
St. deviation:	0.65270	1.0904	0.68466	1.1597
Maximum:	9.4000	4.2000	6.1000	6.2000
Minimum:	-4.1000	-6.7000	-6.1000	-8.7000

Number of data:	11550.	11550.	24550.	24550.
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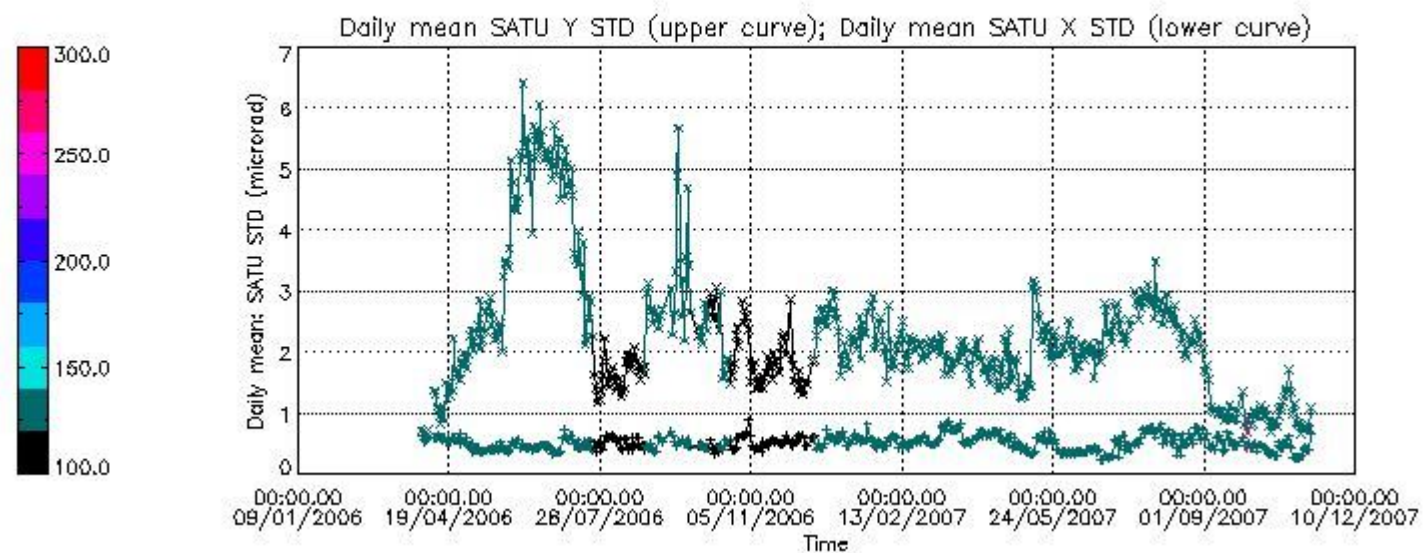
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

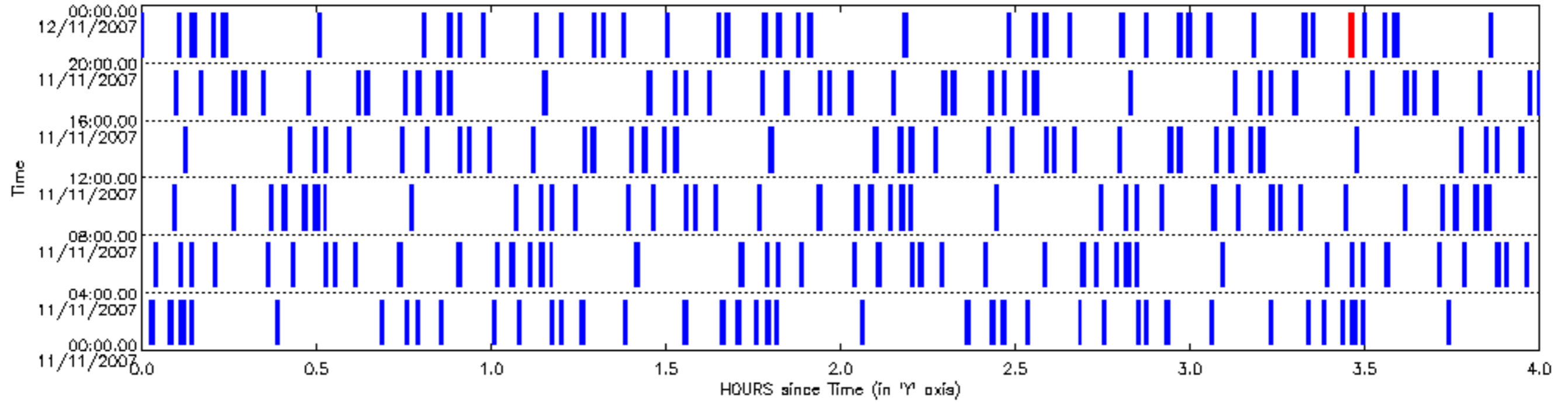
Lower curve: STD of SATU X axis

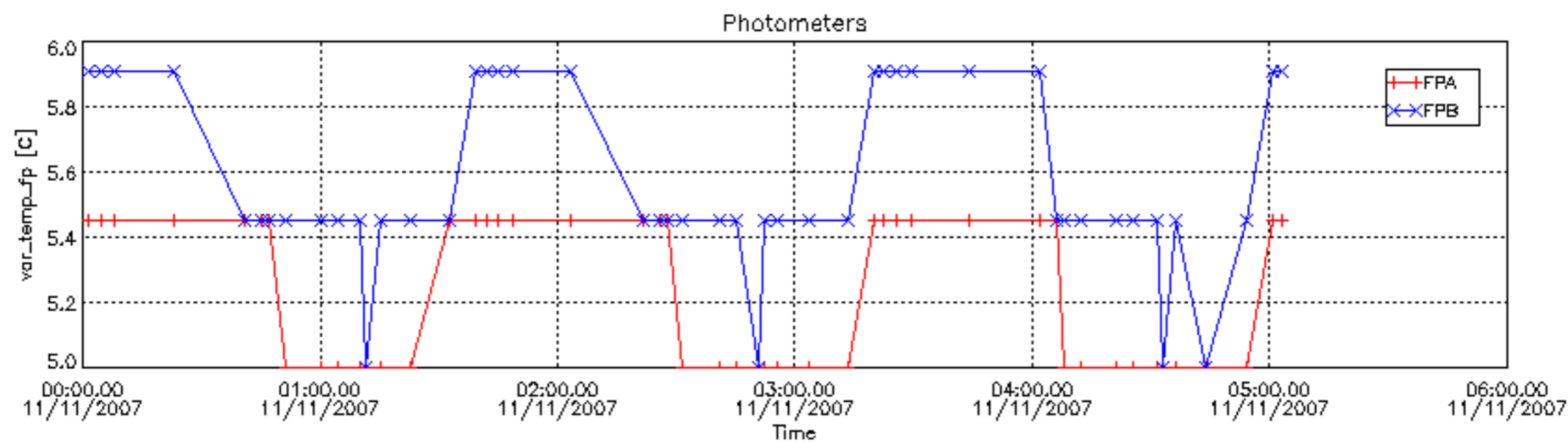
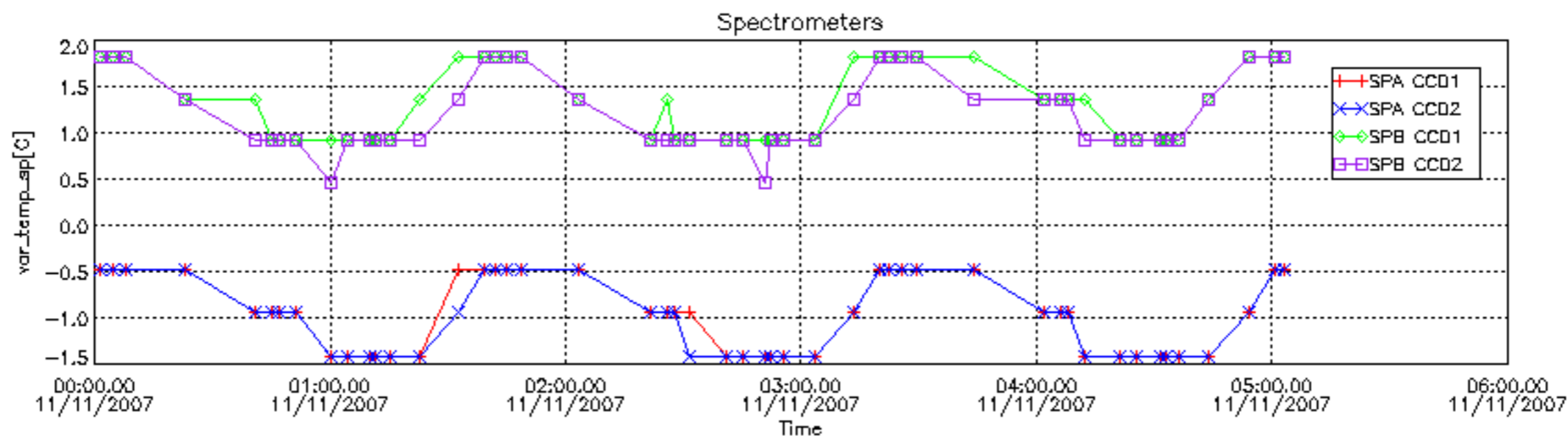


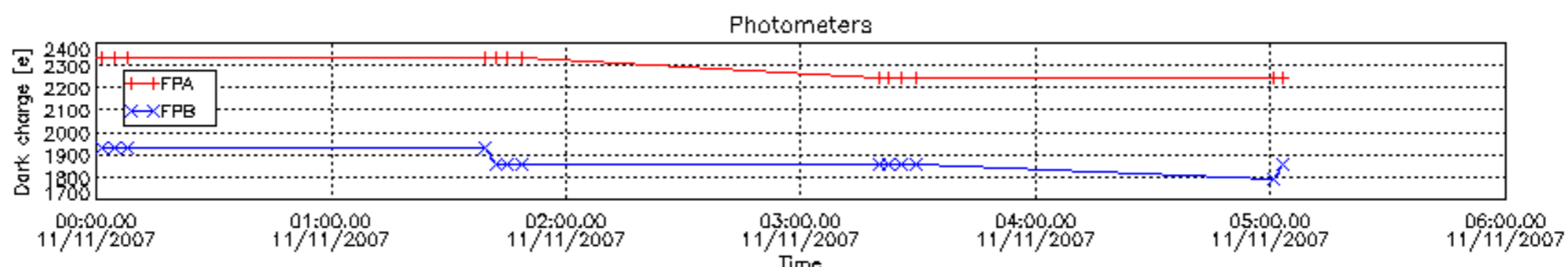
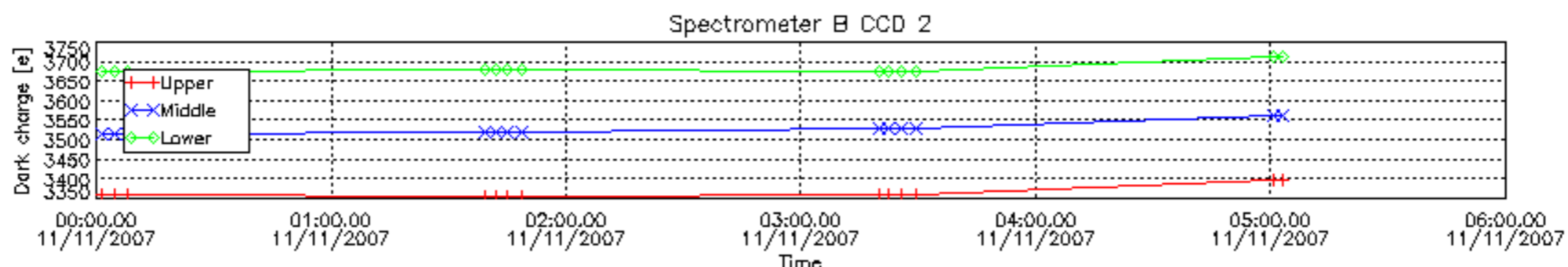
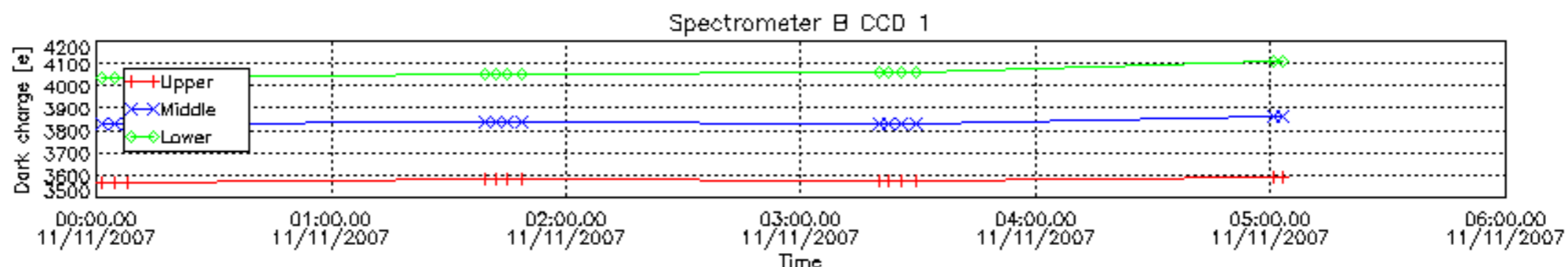
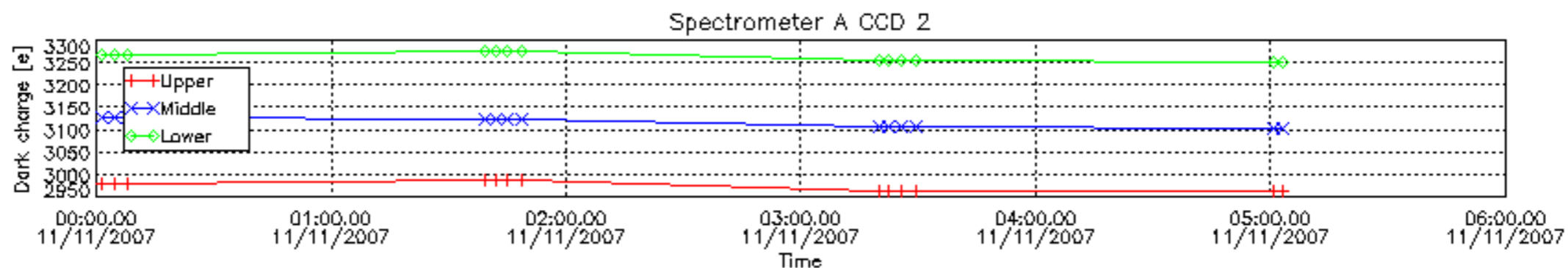
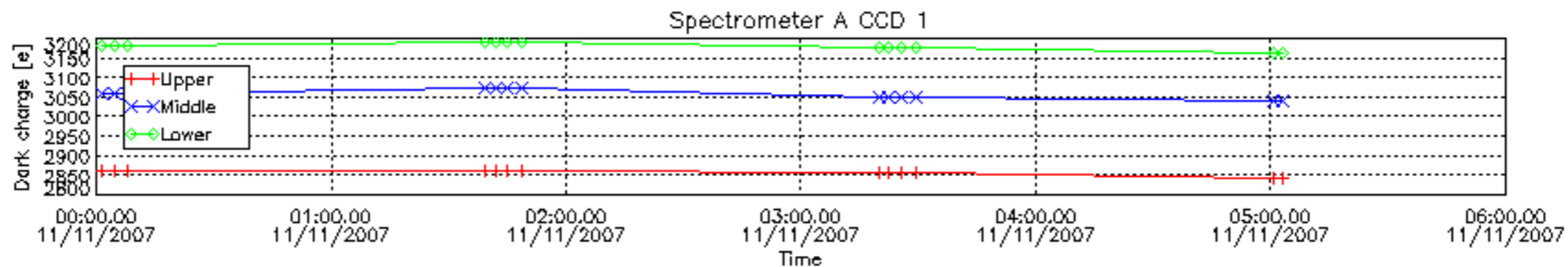
8. Auxiliary Data Files used for the production reported in section 2.4

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.

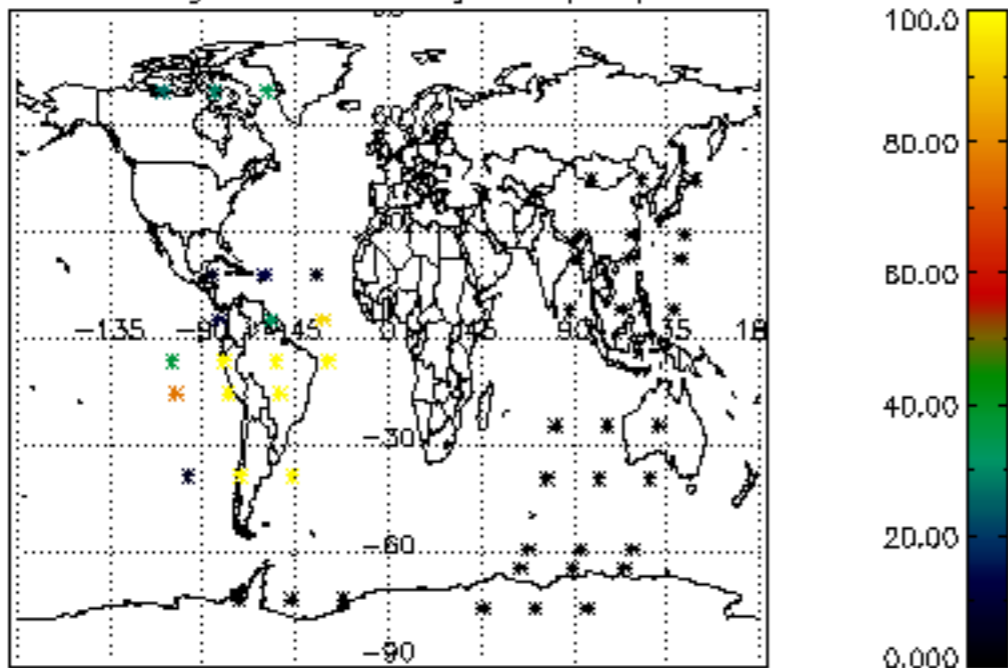
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	11-NOV-2007 00:01:20
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071029_132344_20071028_000000_20100101_000000	1	11-NOV-2007 00:01:20
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	11-NOV-2007 00:01:20
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	11-NOV-2007 00:01:20
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	11-NOV-2007 00:01:20
ECMWF_FILE	AUX_ECF_AXNECM20071110_063112_20071110_210000_20071111_090000	1	11-NOV-2007 00:01:20
ECMWF_FILE	AUX_ECF_AXNECM20071110_190111_20071111_030000_20071111_150000	42	11-NOV-2007 04:25:34
OPTIONAL_ECMWF_FILE	MISSING	1	11-NOV-2007 00:01:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071110_220825_000057382063_00172_29785_4535.N1	1	11-NOV-2007 00:01:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071110_234403_000057382063_00173_29786_4536.N1	15	11-NOV-2007 01:32:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071111_012500_000041442063_00174_29787_4537.N1	26	11-NOV-2007 02:44:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071111_023923_000057382063_00175_29788_4538.N1	42	11-NOV-2007 04:25:34



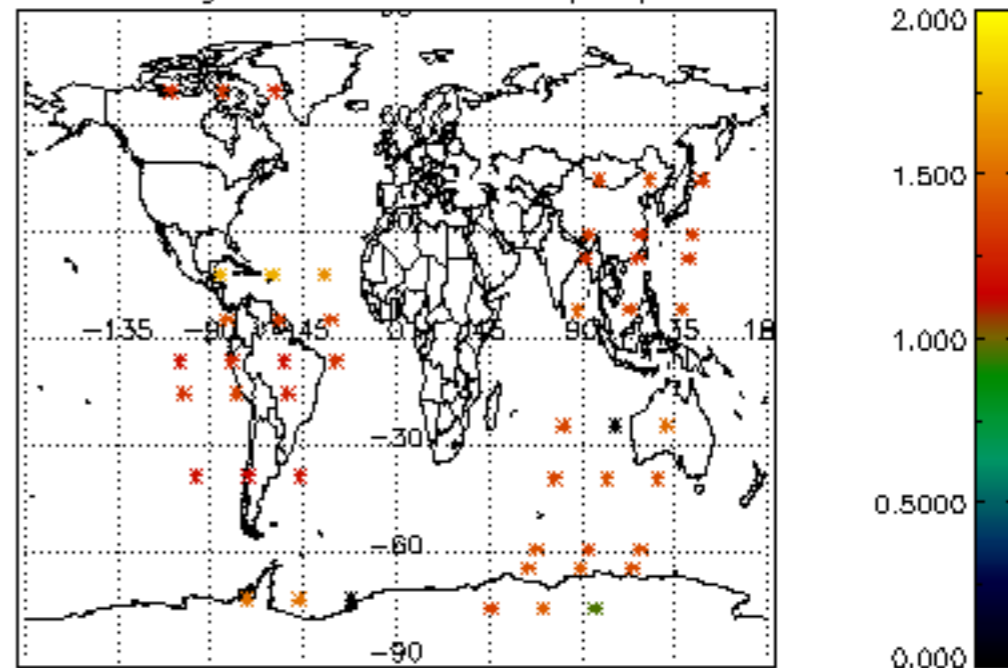




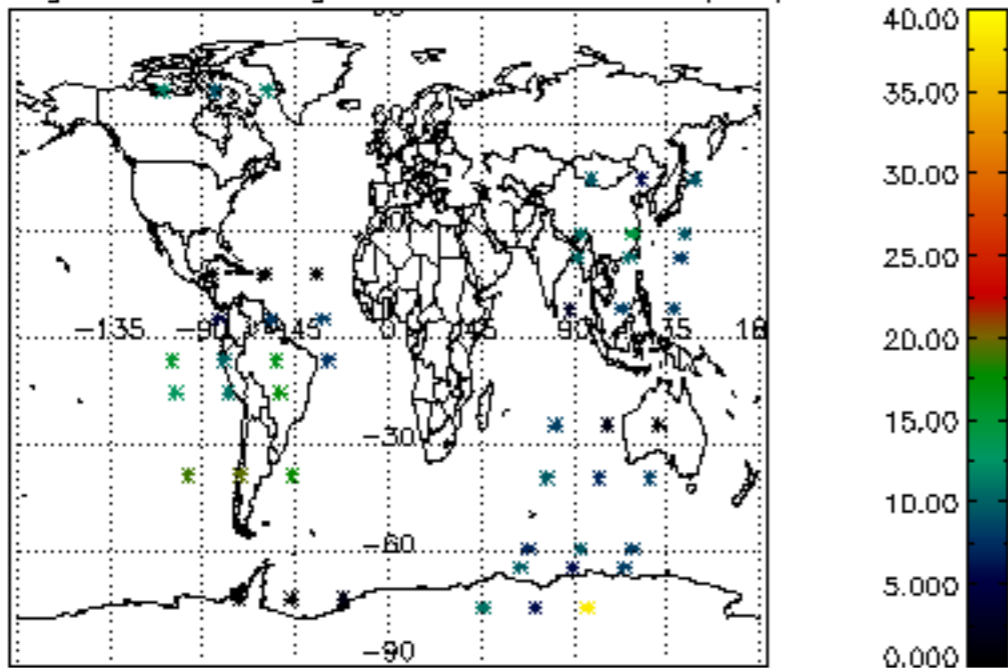
Percentage of cosmic ray hits per profile



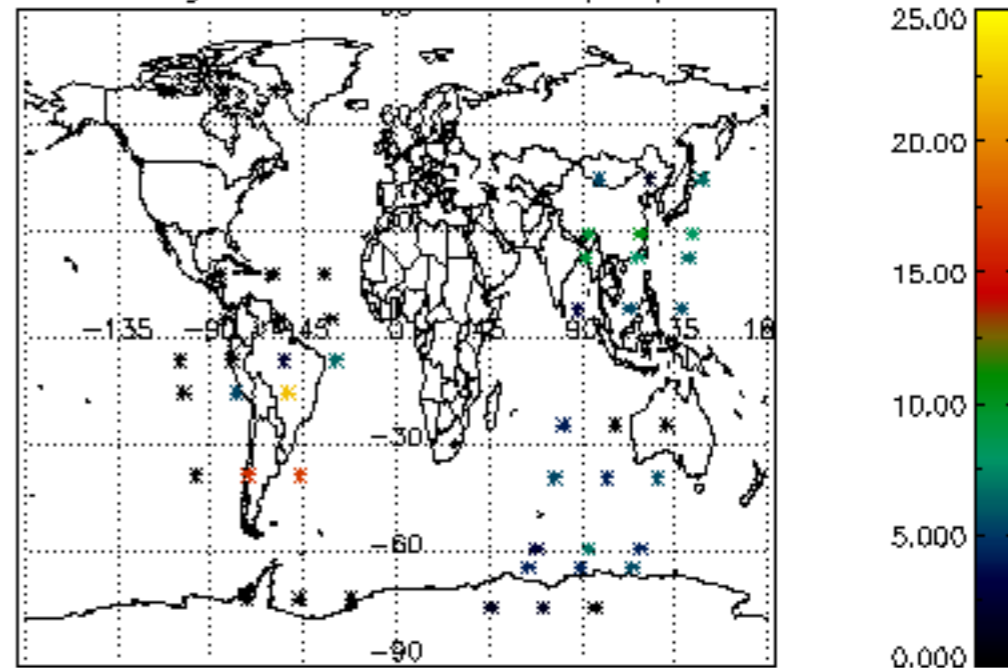
Percentage of datation errors per profile



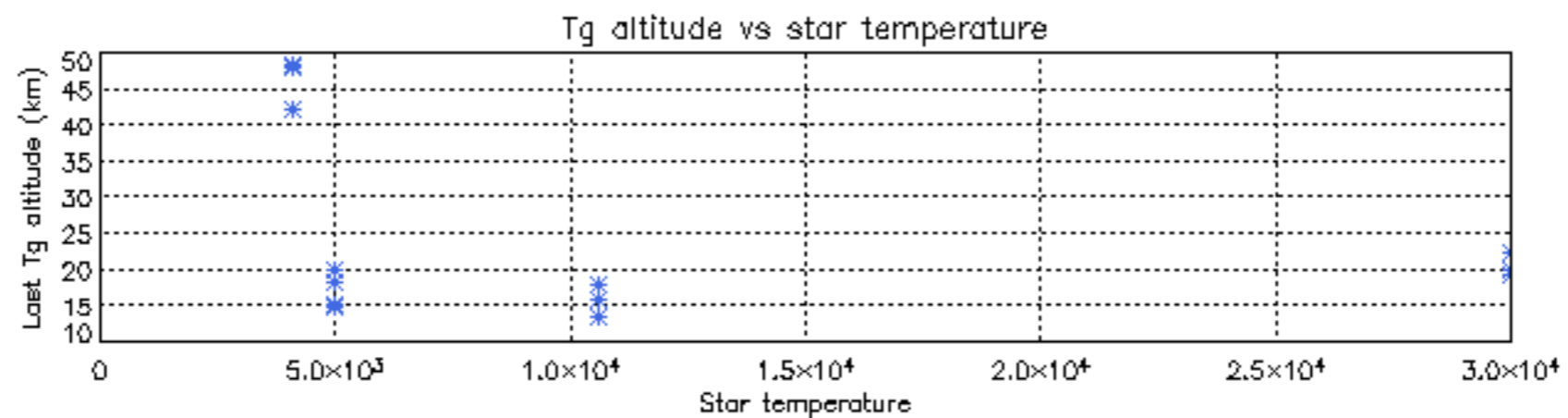
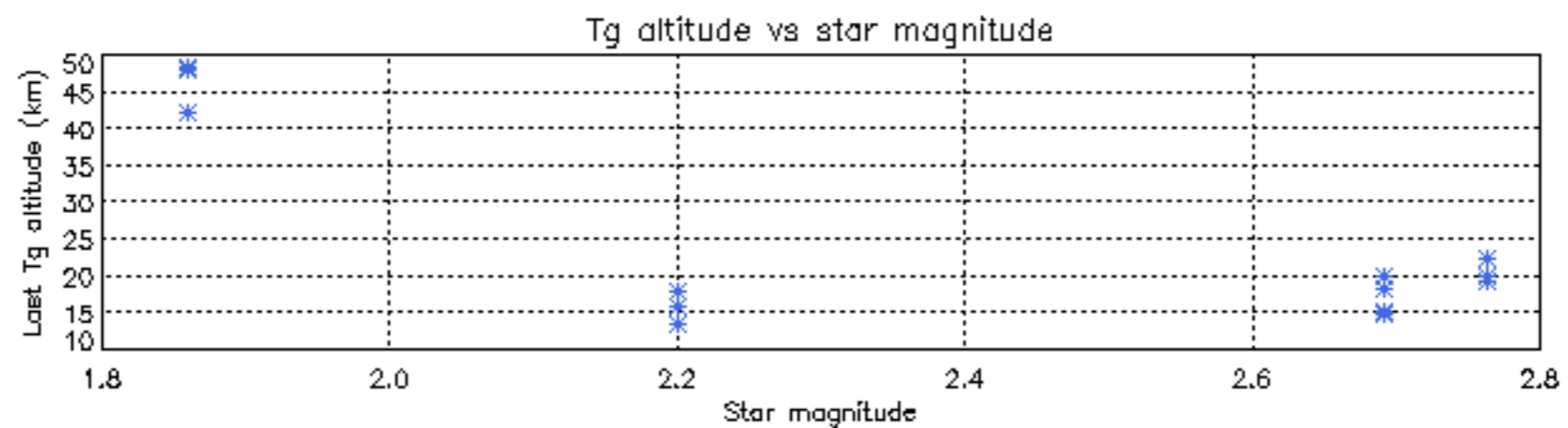
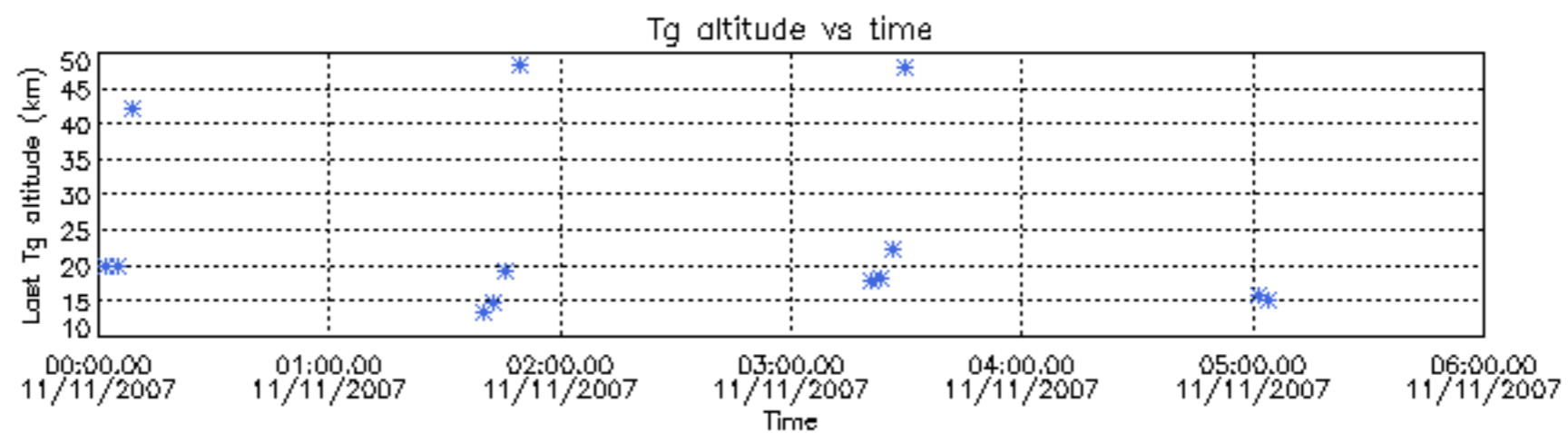
Percentage of star falling outside central band per profile



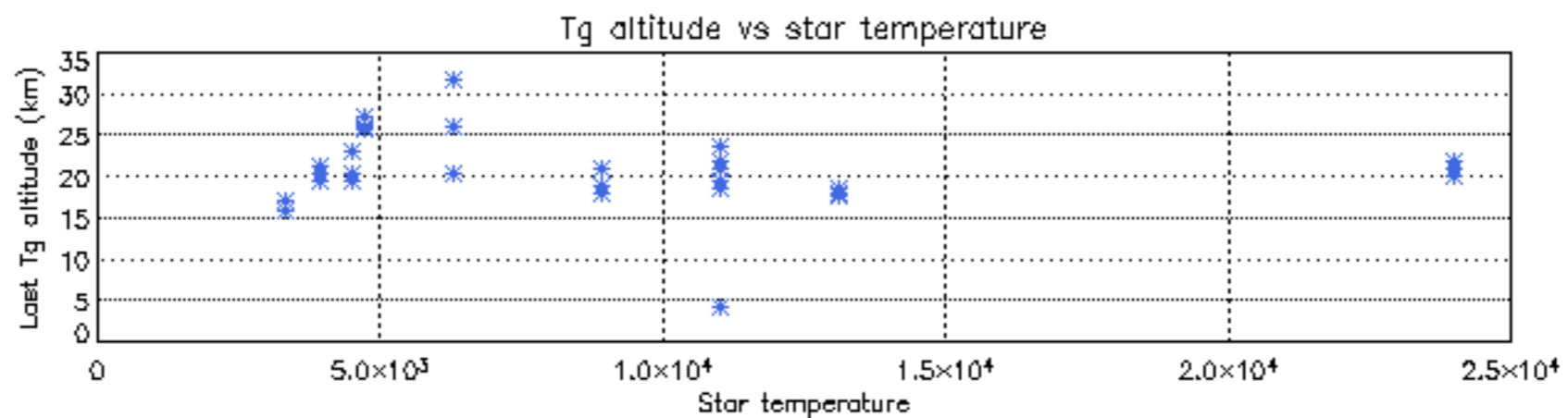
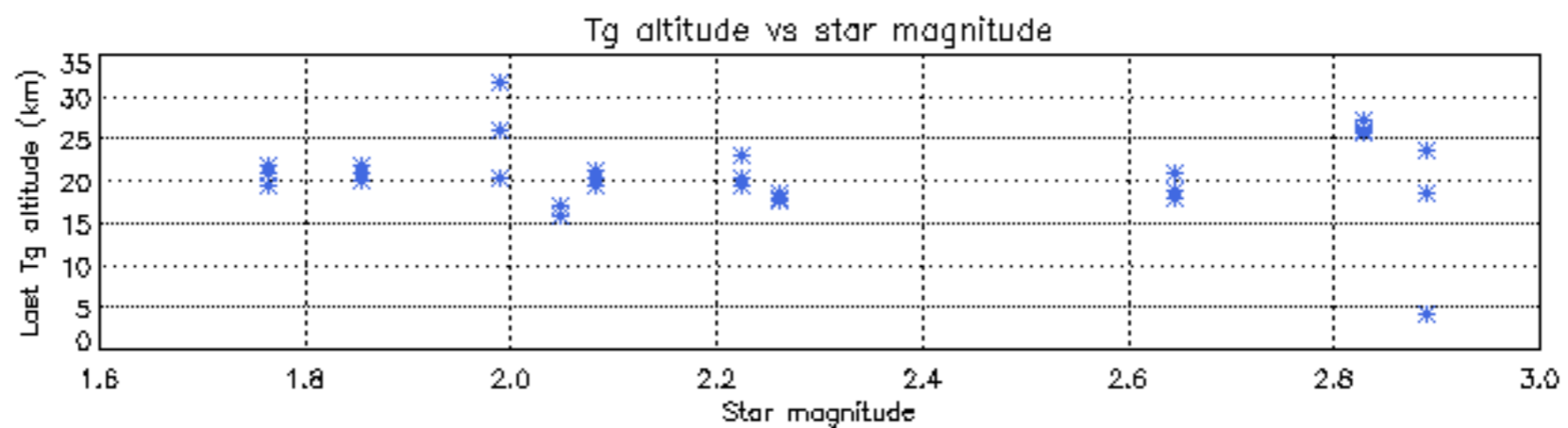
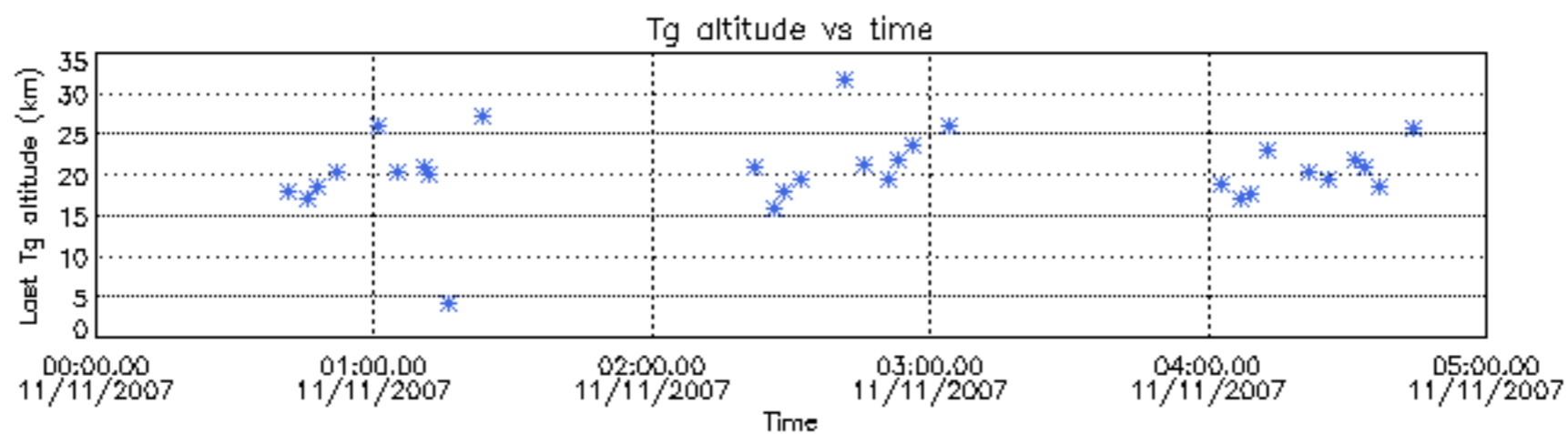
Percentage of saturation errors per profile



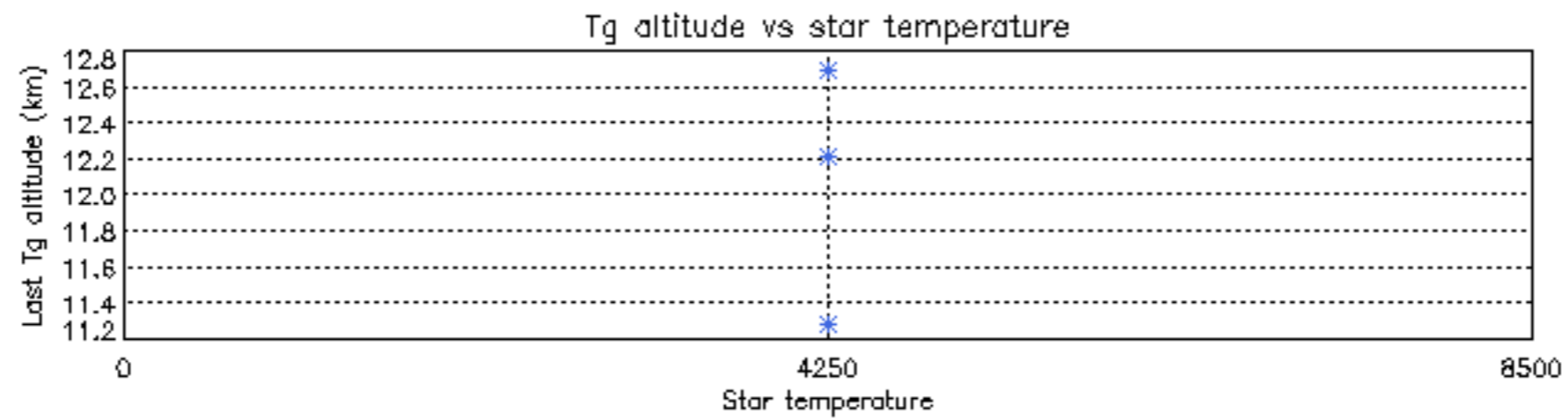
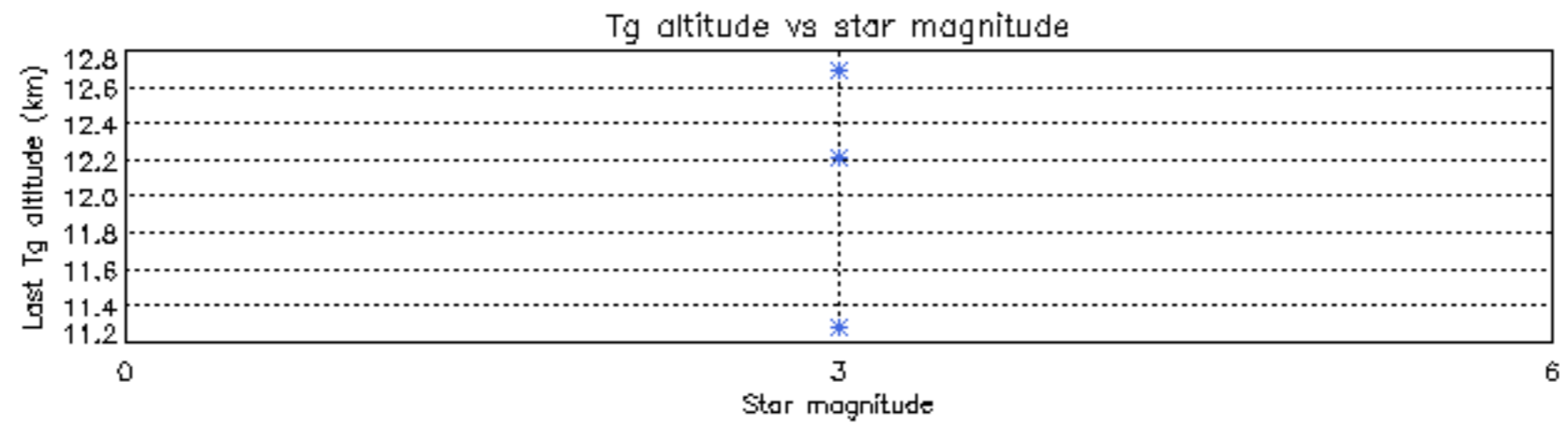
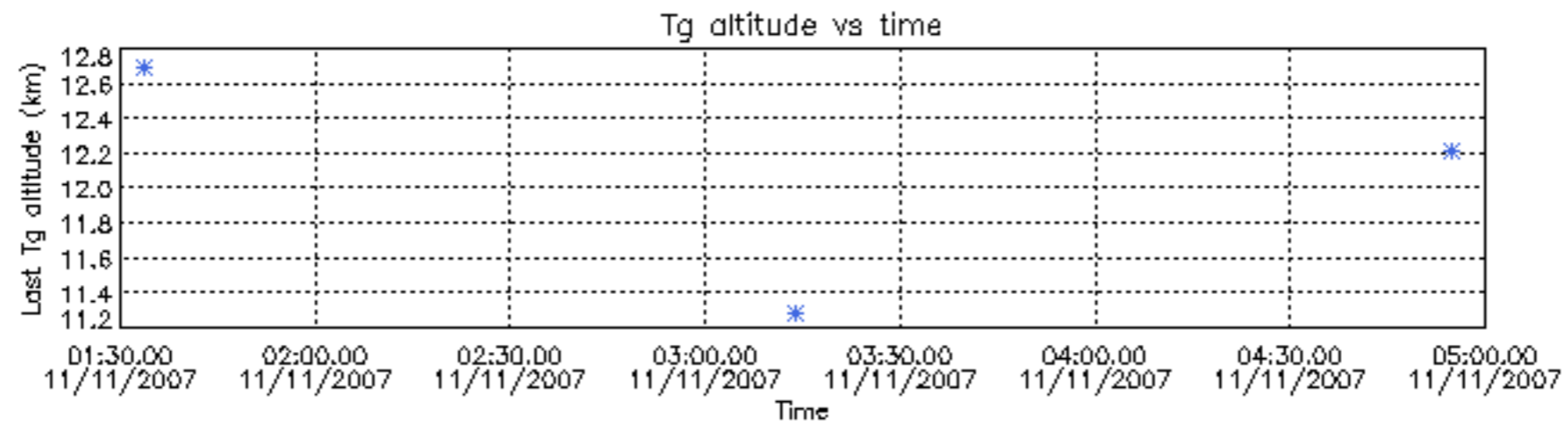
Tangent altitude at which the star is lost

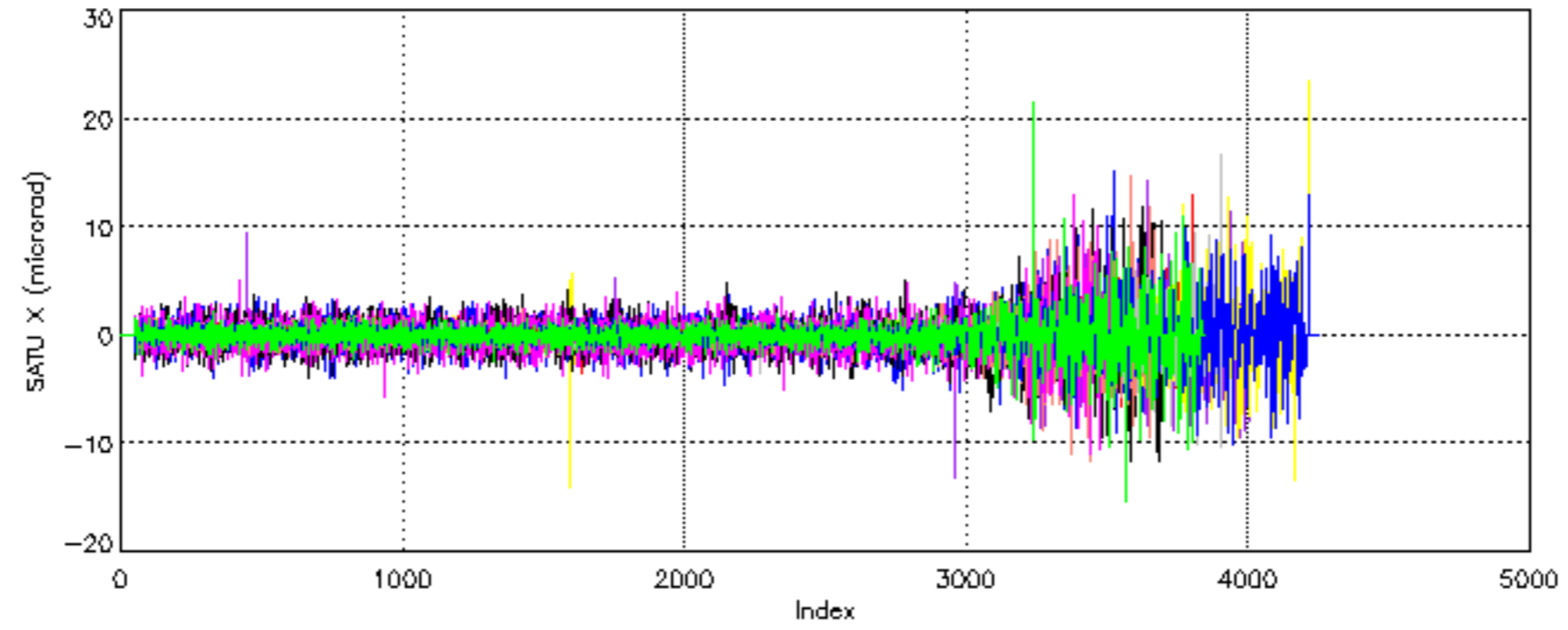


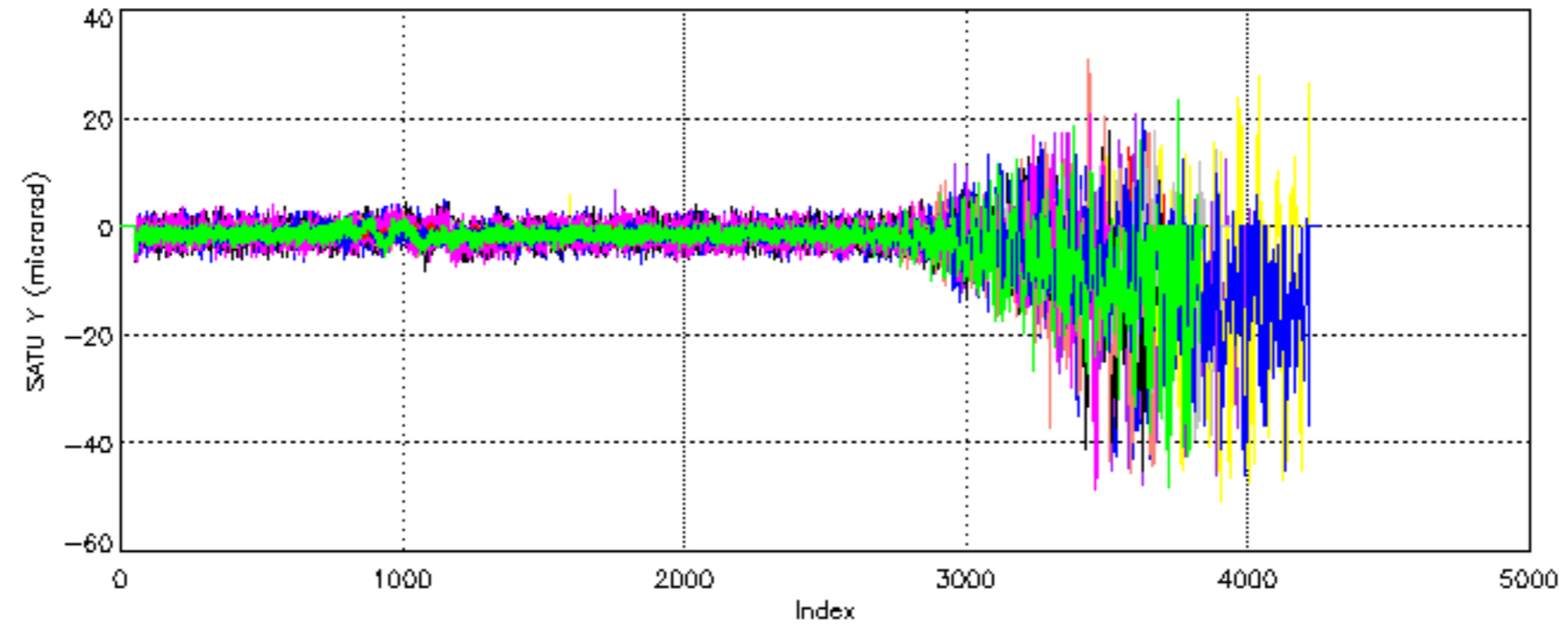
Tangent altitude at which the star is lost

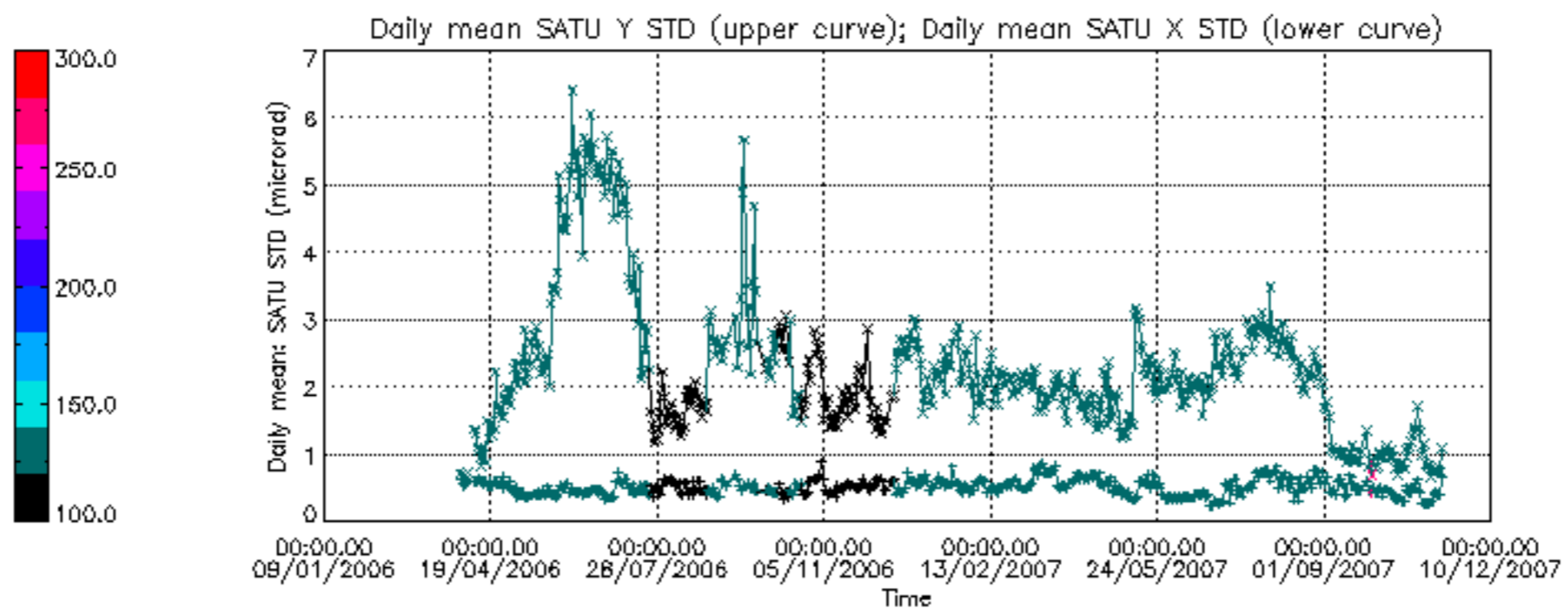


Tangent altitude at which the star is lost









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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
 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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 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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 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
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 10; 1139.7; 01-NOV-2007 03:57:41; Dark ; 41.0; 157; The1Eri ; 2.91; 9300;occ; 82; 0;29646
 11; 2274.3; 01-NOV-2007 04:16:36; Bright; 38.5; 105; 6Bet Ari ; 2.64; 8900;occ; 77; 0;29646
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 13; 2662.4; 01-NOV-2007 04:23:04; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;29646
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 4;-1364.1; 01-NOV-2007 04:56:34; Bright; 42.0; 96; 68Del Leo ; 2.56; 9300;occ; 84; 0;29646
 5; -22.9; 01-NOV-2007 05:18:55; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;29646
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 3; 2514.4; 01-NOV-2007 21:06:36; Bright; 37.0; 53; 43Bet And ; 2.05; 3300;occ; 74; 0;29656

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7; 3423.7; 01-NOV-2007 21:21:45; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;29656
8; 3911.5; 01-NOV-2007 21:29:53; Bright; 39.5; 36; 50Alp UMA ; 1.80; 6300;occ; 79; 0;29656
9; 4008.4; 01-NOV-2007 21:31:29; Bright; 56.0; 82; 48Bet UMA ; 2.37; 10600;occ; 112; 0;29656
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3; -1806.4; 01-NOV-2007 06:29:47; Bright; 37.0; 174; 52Psi UMA ; 3.00; 4400;occ; 74; 0;29647
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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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2; 2514.7; 01-NOV-2007 07:41:48; Bright; 36.5; 53; 43Bet And ; 2.05; 3300;occ; 73; 0;29648
3; 2661.8; 01-NOV-2007 07:44:15; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;29648
4; 2867.6; 01-NOV-2007 07:47:41; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29648
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14;	4008.1;	01-NOV-2007	23:12:05;	Bright;	;	37.0;	82;	48Bet UMa	;	2.37;	10600;occ;	74;	0;	29657
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3;	220.7;	01-NOV-2007	23:49:34;	Dark	;	44.5;	41;	Eps Car	;	1.86;	4100;occ;	89;	0;	29658
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13;	3911.3;	02-NOV-2007	00:51:04;	Bright;	;	40.0;	36;	50Alp UMa	;	1.80;	6300;occ;	80;	0;	29658
14;	4008.0;	02-NOV-2007	00:52:41;	Bright;	;	37.5;	82;	48Bet UMa	;	2.37;	10600;occ;	75;	0;	29658
15;	4229.8;	02-NOV-2007	00:56:23;	Bright;	;	36.5;	174;	52Psi UMa	;	3.00;	4400;occ;	73;	0;	29658
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6; 3675.5; 11-NOV-2007 09:27:22; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;29792

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 9; 4321.1; 11-NOV-2007 09:38:08; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;29792
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 13; 5915.3; 11-NOV-2007 10:04:42; Dark ; 42.5; 26; Gam Cru ; 1.62; 2900;occ; 85; 0;29792
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