

GOMOS Daily Report 16-JUN-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	18JUN2007 05:33:00
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (16JUN2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (17JUN2007 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)

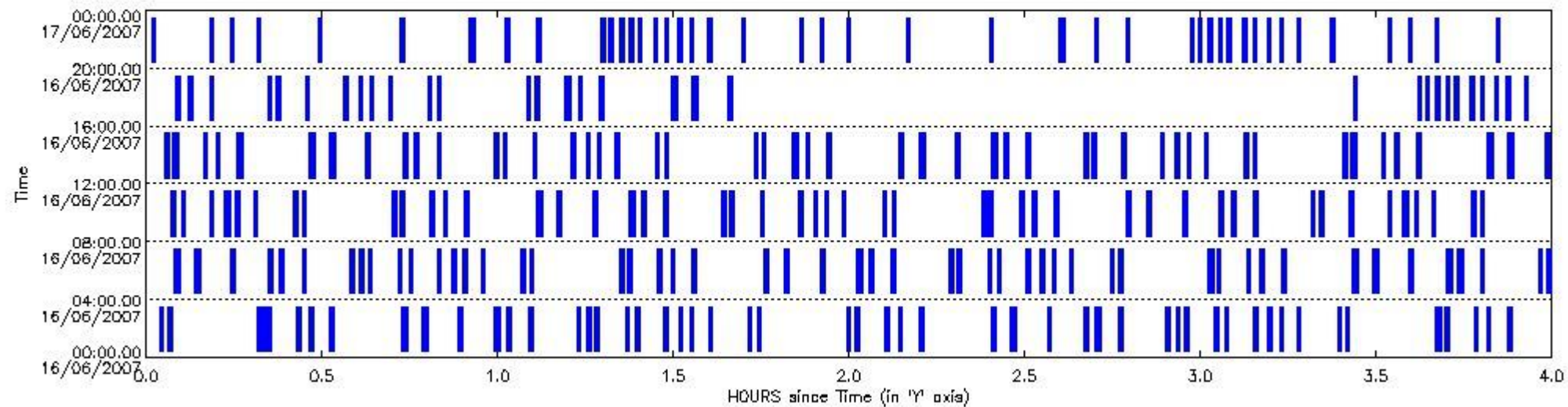
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

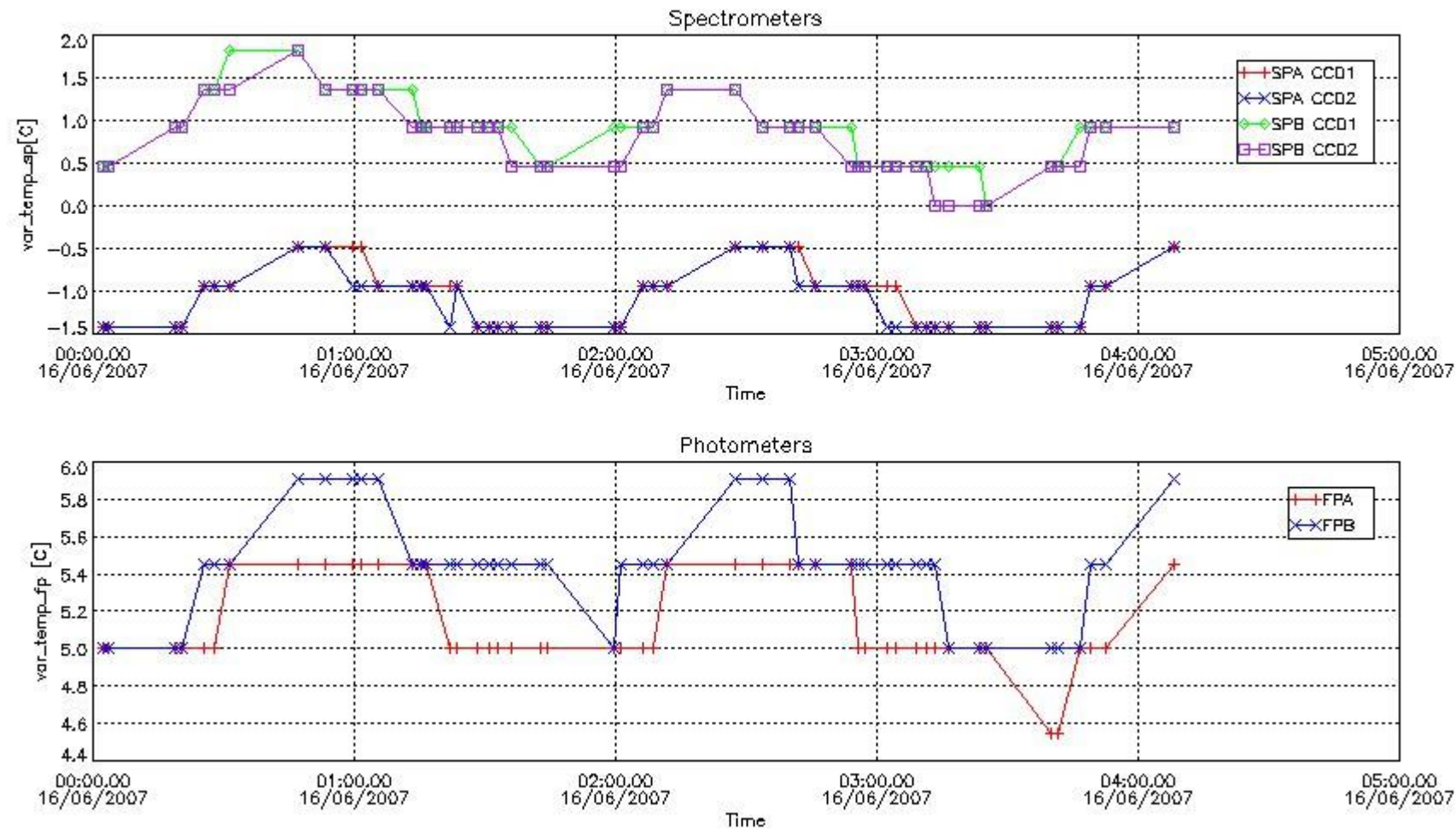
No missing products.

2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20070616_000210_000000402059_00059_27668_0334.N1	16-JUN-2007 00:02:10	Bright	40.000	130	23Bet Dra	2.7990	5800.0	80	27668	No
2	GOM_TRA_1PNPDE20070616_000342_000000372059_00059_27668_0335.N1	16-JUN-2007 00:03:42	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	27668	No
3	GOM_TRA_1PNPDE20070616_001900_000000642059_00059_27668_0336.N1	16-JUN-2007 00:19:00	Bright	64.000	74	11Bet Cas	2.2680	6600.0	128	27668	No
4	GOM_TRA_1PNPDE20070616_002022_000000562059_00059_27668_0337.N1	16-JUN-2007 00:20:22	Bright	56.000	68	18Alp Cas	2.2250	4500.0	112	27668	No
5	GOM_TRA_1PNPDE20070616_002530_000000572059_00059_27668_0338.N1	16-JUN-2007 00:25:30	Bright	57.000	73	57Gam1And	2.2600	13100.	114	27668	No
6	GOM_TRA_1PNPDE20070616_002751_000000412059_00059_27668_0339.N1	16-JUN-2007 00:27:51	Twilight	41.000	53	43Bet And	2.0480	3300.0	82	27668	No
7	GOM_TRA_1PNPDE20070616_003120_000000482059_00059_27668_0340.N1	16-JUN-2007 00:31:20	Twilight	48.000	50	13Alp Ari	2.0070	4250.0	96	27668	No
8	GOM_TRA_1PNPDE20070616_004659_000000612059_00059_27668_0458.N1	16-JUN-2007 00:46:59	Dark	60.500	52	16Bet Cet	2.0370	4500.0	121	27668	No
9	GOM_TRA_1PNPDE20070616_005313_000000452059_00059_27668_0459.N1	16-JUN-2007 00:53:13	Dark	44.500	84	Alp Phe	2.3970	4500.0	89	27668	No
10	GOM_TRA_1PNPDE20070616_005925_000000662059_00060_27669_0460.N1	16-JUN-2007 00:59:25	Dark	65.500	63	Bet Gru	2.1500	2800.0	131	27669	No
11	GOM_TRA_1PNPDE20070616_010128_000000482059_00060_27669_0461.N1	16-JUN-2007 01:01:28	Dark	48.000	31	Alp Gru	1.7340	15200.	96	27669	No
12	GOM_TRA_1PNPDE20070616_010520_000000412059_00060_27669_0462.N1	16-JUN-2007 01:05:20	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	27669	No

13	GOM_TRA_1PNPDE20070616_011330_000000422059_00060_27669_0463.N1	16-JUN-2007 01:13:30	Twilight	42.000	40	The Sco	1.8590	7100.0	84	27669	No
14	GOM_TRA_1PNPDE20070616_011513_000000422059_00060_27669_0464.N1	16-JUN-2007 01:15:13	Twilight	42.000	25	35Lam Sco	1.6200	28000.	84	27669	No
15	GOM_TRA_1PNPDE20070616_011637_000000462059_00060_27669_0465.N1	16-JUN-2007 01:16:37	Twilight	46.000	167	10Gam2Sgr	2.9840	4500.0	92	27669	No
16	GOM_TRA_1PNPDE20070616_012149_000000392059_00060_27669_0466.N1	16-JUN-2007 01:21:49	Bright	39.000	86	35Eta Oph	2.4300	10200.	78	27669	No
17	GOM_TRA_1PNPDE20070616_012334_000000372059_00060_27669_0467.N1	16-JUN-2007 01:23:34	Bright	36.500	98	13Zet Oph	2.5710	30000.	73	27669	No
18	GOM_TRA_1PNPDE20070616_012824_000000442059_00060_27669_0468.N1	16-JUN-2007 01:28:24	Bright	43.500	126	60Bet Oph	2.7700	4250.0	87	27669	No
19	GOM_TRA_1PNPDE20070616_013056_000000432059_00060_27669_0469.N1	16-JUN-2007 01:30:56	Bright	43.000	59	55Alp Oph	2.0800	8900.0	86	27669	No
20	GOM_TRA_1PNPDE20070616_013253_000000362059_00060_27669_0470.N1	16-JUN-2007 01:32:53	Bright	36.000	127	27Bet Her	2.7810	4700.0	72	27669	No
21	GOM_TRA_1PNPDE20070616_013556_000000382059_00060_27669_0471.N1	16-JUN-2007 01:35:56	Bright	38.000	133	40Zet Her	2.8070	6000.0	76	27669	No
22	GOM_TRA_1PNPDE20070616_014245_000000412059_00060_27669_0472.N1	16-JUN-2007 01:42:45	Bright	40.500	130	23Bet Dra	2.7990	5800.0	81	27669	No
23	GOM_TRA_1PNPDE20070616_014418_000000352059_00060_27669_0473.N1	16-JUN-2007 01:44:18	Bright	35.000	119	14Eta Dra	2.7270	4700.0	70	27669	No
24	GOM_TRA_1PNPDE20070616_015935_000000422059_00060_27669_0474.N1	16-JUN-2007 01:59:35	Bright	41.500	74	11Bet Cas	2.2680	6600.0	83	27669	No
25	GOM_TRA_1PNPDE20070616_020058_000000432059_00060_27669_0475.N1	16-JUN-2007 02:00:58	Bright	43.000	68	18Alp Cas	2.2250	4500.0	86	27669	No
26	GOM_TRA_1PNPDE20070616_020606_000000392059_00060_27669_0476.N1	16-JUN-2007 02:06:06	Bright	38.500	73	57Gam1And	2.2600	13100.	77	27669	No
27	GOM_TRA_1PNPDE20070616_020827_000000412059_00060_27669_0477.N1	16-JUN-2007 02:08:27	Twilight	41.000	53	43Bet And	2.0480	3300.0	82	27669	No
28	GOM_TRA_1PNPDE20070616_021156_000000492059_00060_27669_0478.N1	16-JUN-2007 02:11:56	Twilight	48.500	50	13Alp Ari	2.0070	4250.0	97	27669	No
29	GOM_TRA_1PNPDE20070616_022736_000000562059_00060_27669_0616.N1	16-JUN-2007 02:27:36	Dark	55.500	52	16Bet Cet	2.0370	4500.0	111	27669	No
30	GOM_TRA_1PNPDE20070616_023350_000000442059_00060_27669_0617.N1	16-JUN-2007 02:33:50	Dark	44.000	84	Alp Phe	2.3970	4500.0	88	27669	No
31	GOM_TRA_1PNPDE20070616_024002_000000472059_00061_27670_0618.N1	16-JUN-2007 02:40:02	Dark	47.000	63	Bet Gru	2.1500	2800.0	94	27670	No
32	GOM_TRA_1PNPDE20070616_024205_000000502059_00061_27670_0619.N1	16-JUN-2007 02:42:05	Dark	49.500	31	Alp Gru	1.7340	15200.	99	27670	No
33	GOM_TRA_1PNPDE20070616_024557_000000452059_00061_27670_0620.N1	16-JUN-2007 02:45:57	Straylight	44.500	45	Alp Pav	1.9400	26000.	89	27670	No
34	GOM_TRA_1PNPDE20070616_025407_000000462059_00061_27670_0621.N1	16-JUN-2007 02:54:07	Twilight	46.000	40	The Sco	1.8590	7100.0	92	27670	No
35	GOM_TRA_1PNPDE20070616_025550_000000412059_00061_27670_0622.N1	16-JUN-2007 02:55:50	Twilight	40.500	25	35Lam Sco	1.6200	28000.	81	27670	No
36	GOM_TRA_1PNPDE20070616_025713_000000452059_00061_27670_0623.N1	16-JUN-2007 02:57:13	Twilight	44.500	167	10Gam2Sgr	2.9840	4500.0	89	27670	No
37	GOM_TRA_1PNPDE20070616_030226_000000392059_00061_27670_0624.N1	16-JUN-2007 03:02:26	Bright	38.500	86	35Eta Oph	2.4300	10200.	77	27670	No
38	GOM_TRA_1PNPDE20070616_030410_000000372059_00061_27670_0625.N1	16-JUN-2007 03:04:10	Bright	37.000	98	13Zet Oph	2.5710	30000.	74	27670	No
39	GOM_TRA_1PNPDE20070616_030900_000000432059_00061_27670_0626.N1	16-JUN-2007 03:09:00	Bright	43.000	126	60Bet Oph	2.7700	4250.0	86	27670	No
40	GOM_TRA_1PNPDE20070616_031131_000000442059_00061_27670_0627.N1	16-JUN-2007 03:11:31	Bright	43.500	59	55Alp Oph	2.0800	8900.0	87	27670	No
41	GOM_TRA_1PNPDE20070616_031329_000000382059_00061_27670_0628.N1	16-JUN-2007 03:13:29	Bright	37.500	127	27Bet Her	2.7810	4700.0	75	27670	No
42	GOM_TRA_1PNPDE20070616_031632_000000372059_00061_27670_0629.N1	16-JUN-2007 03:16:32	Bright	37.000	133	40Zet Her	2.8070	6000.0	74	27670	No
43	GOM_TRA_1PNPDE20070616_032321_000000382059_00061_27670_0630.N1	16-JUN-2007 03:23:21	Bright	37.500	130	23Bet Dra	2.7990	5800.0	75	27670	No
44	GOM_TRA_1PNPDE20070616_032454_000000332059_00061_27670_0631.N1	16-JUN-2007 03:24:54	Bright	33.000	119	14Eta Dra	2.7270	4700.0	66	27670	No
45	GOM_TRA_1PNPDE20070616_034011_000000642059_00061_27670_0759.N1	16-JUN-2007 03:40:11	Bright	64.000	74	11Bet Cas	2.2680	6600.0	128	27670	No
46	GOM_TRA_1PNPDE20070616_034134_000000622059_00061_27670_0760.N1	16-JUN-2007 03:41:34	Bright	62.000	68	18Alp Cas	2.2250	4500.0	124	27670	No
47	GOM_TRA_1PNPDE20070616_034642_000000392059_00061_27670_0761.N1	16-JUN-2007 03:46:42	Bright	39.000	73	57Gam1And	2.2600	13100.	78	27670	No
48	GOM_TRA_1PNPDE20070616_034903_000000322059_00061_27670_0762.N1	16-JUN-2007 03:49:03	Twilight	32.000	53	43Bet And	2.0480	3300.0	64	27670	No
49	GOM_TRA_1PNPDE20070616_035233_000000492059_00061_27670_0763.N1	16-JUN-2007 03:52:33	Twilight	48.500	50	13Alp Ari	2.0070	4250.0	97	27670	No
50	GOM_TRA_1PNPDE20070616_040813_000000562059_00061_27670_0764.N1	16-JUN-2007 04:08:13	Dark	56.000	52	16Bet Cet	2.0370	4500.0	112	27670	No

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



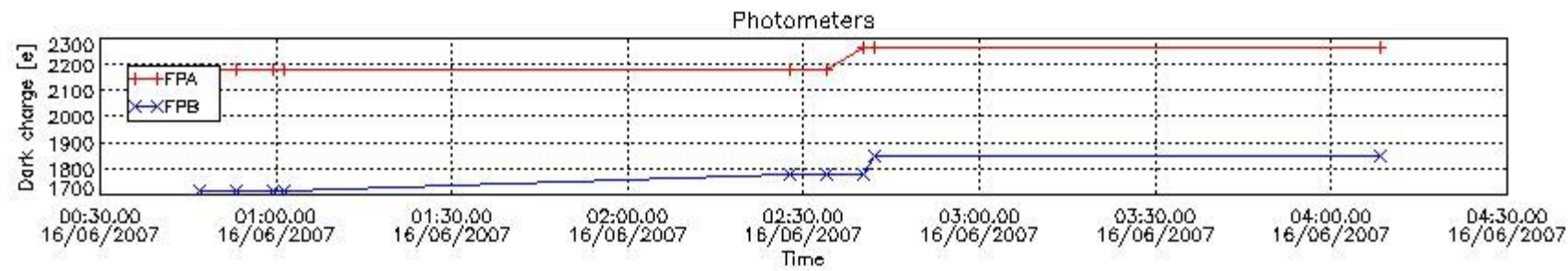
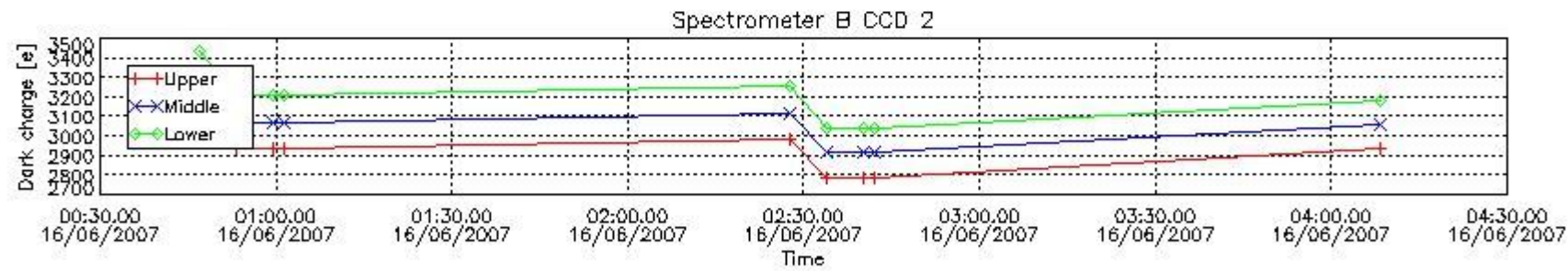
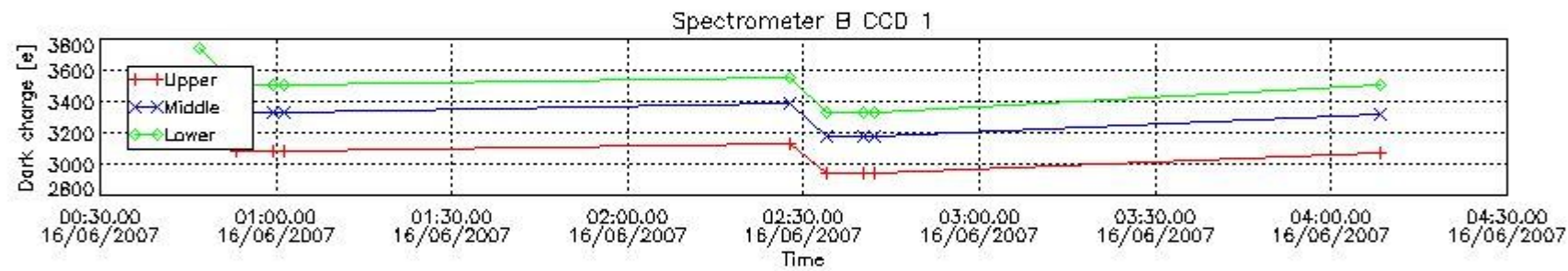
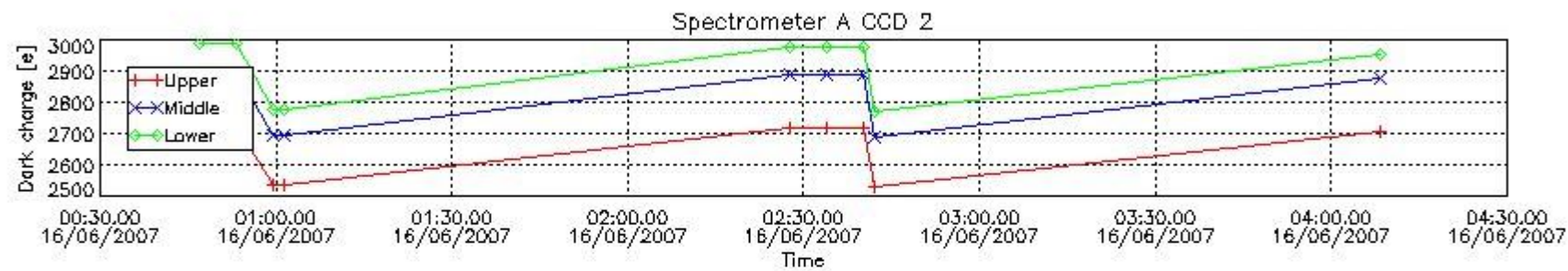
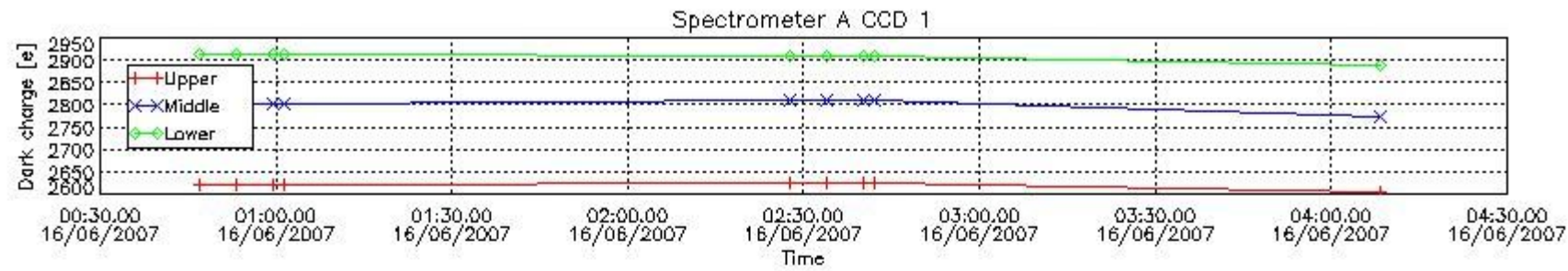
4. Overview of dark signal processing per product

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



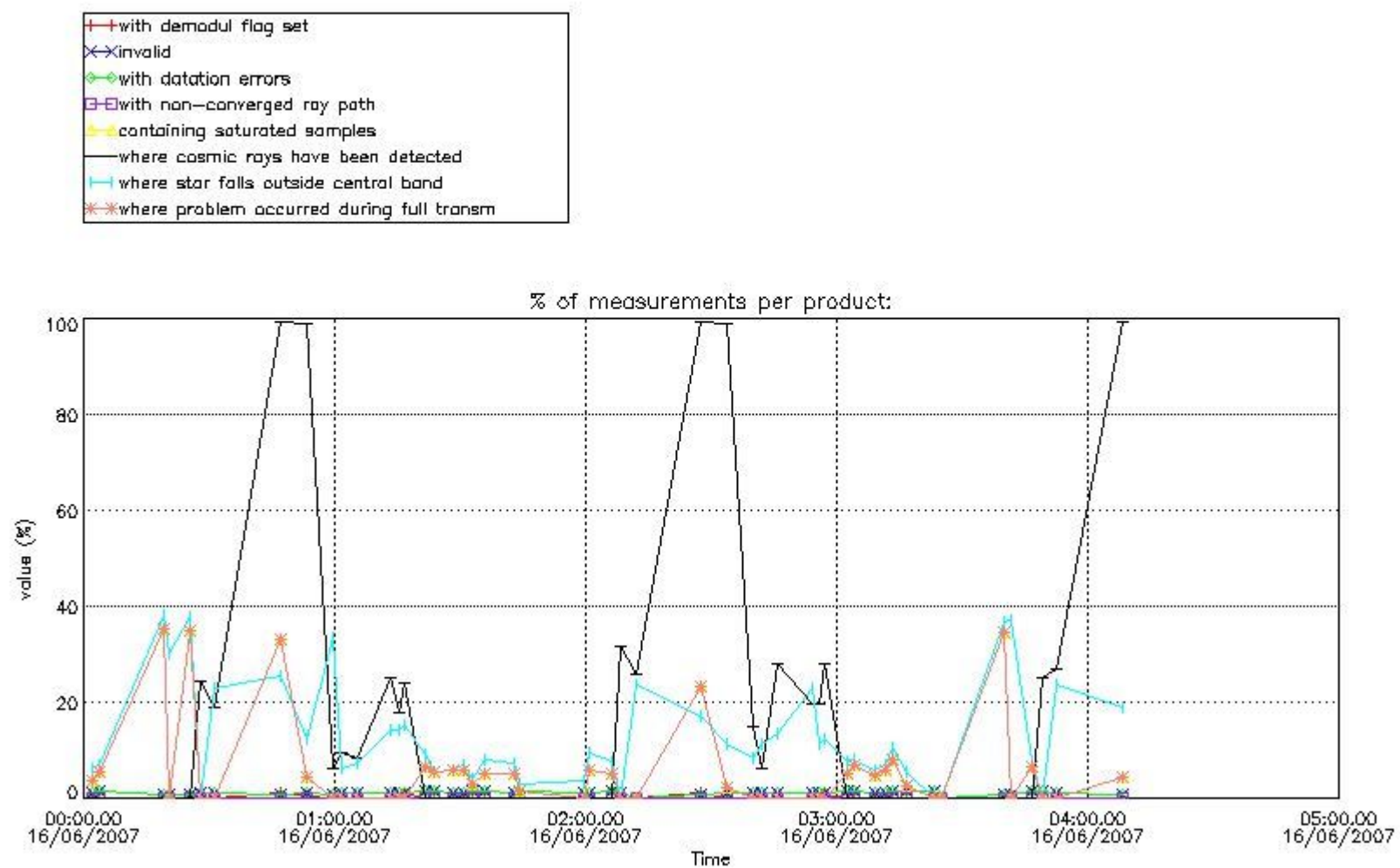
5. Demodulation flag and quality information monitoring

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.

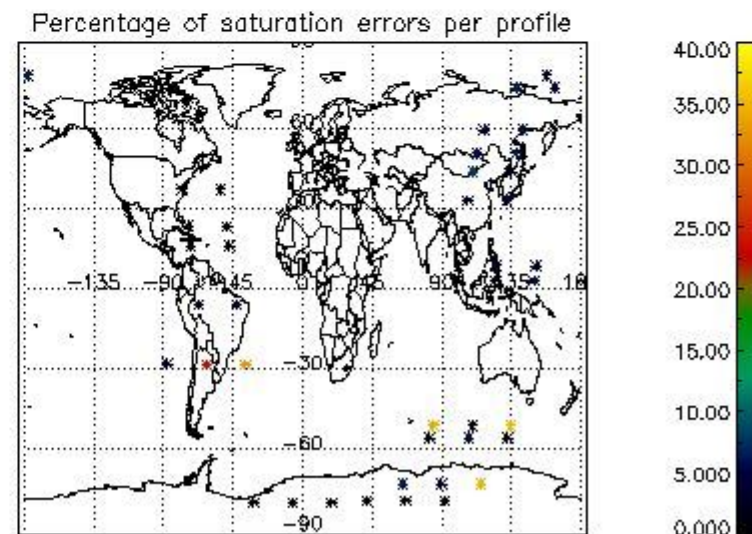
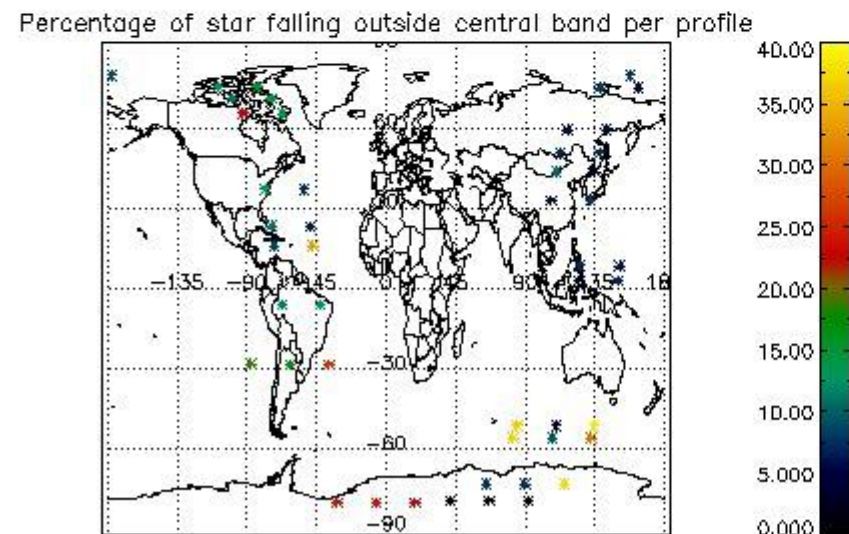
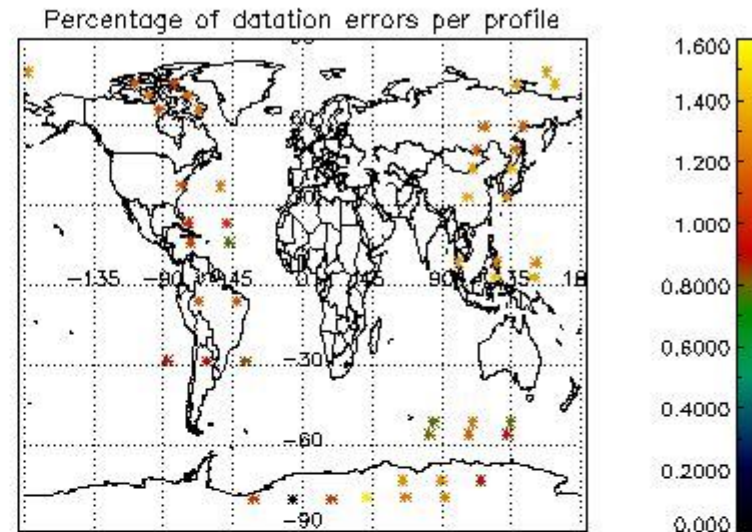
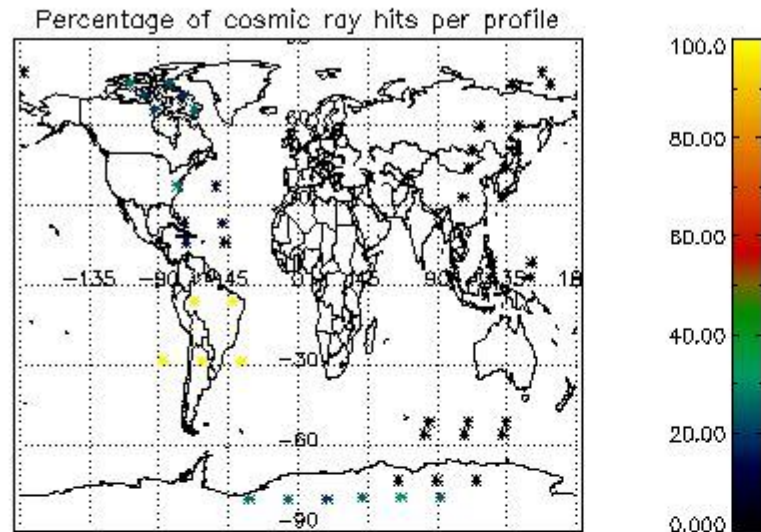
5.1 Percentage of products during reporting period with:

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)



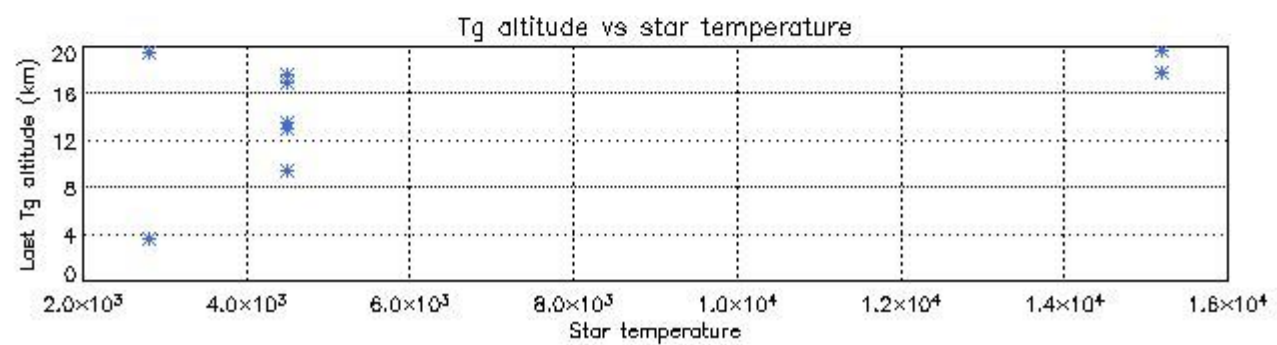
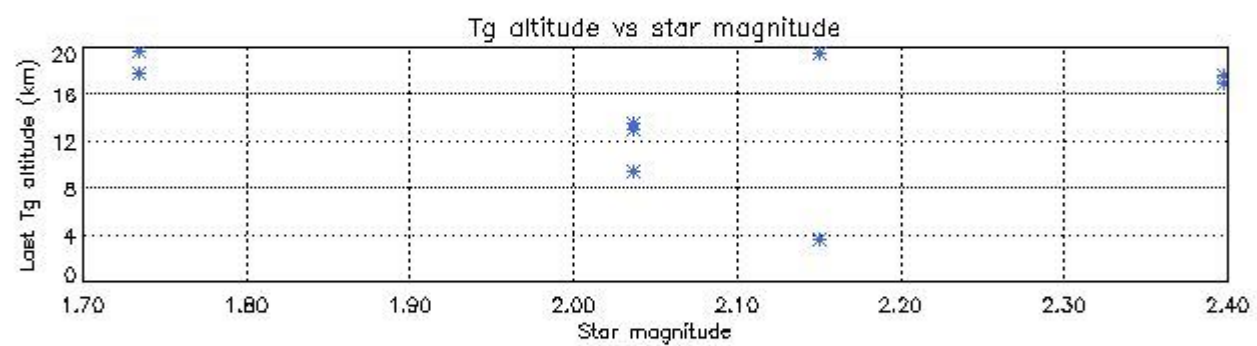
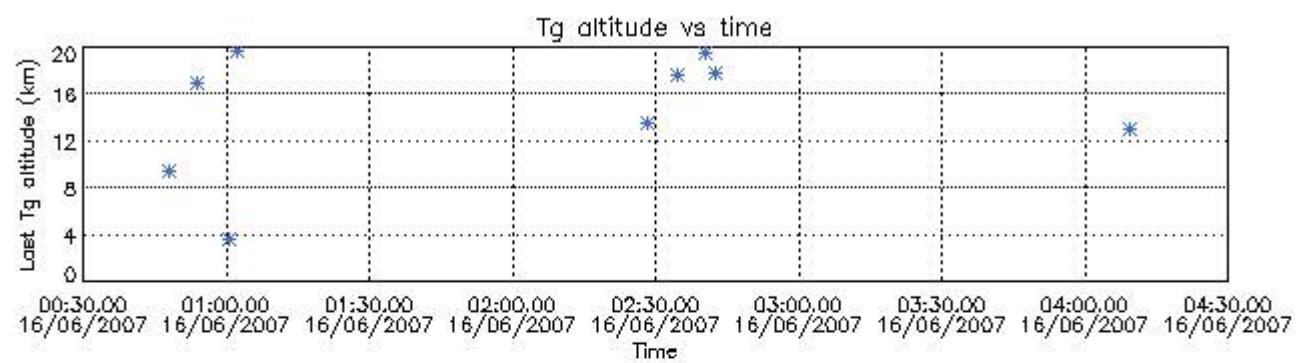
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.550	18.355	10.457
St. deviation:	5.2927	7.0428	0.10010
Maximum:	19.662	28.940	10.565
Minimum:	3.6628	3.6878	10.367
Number of data:	9.0000	27.000	3.0000

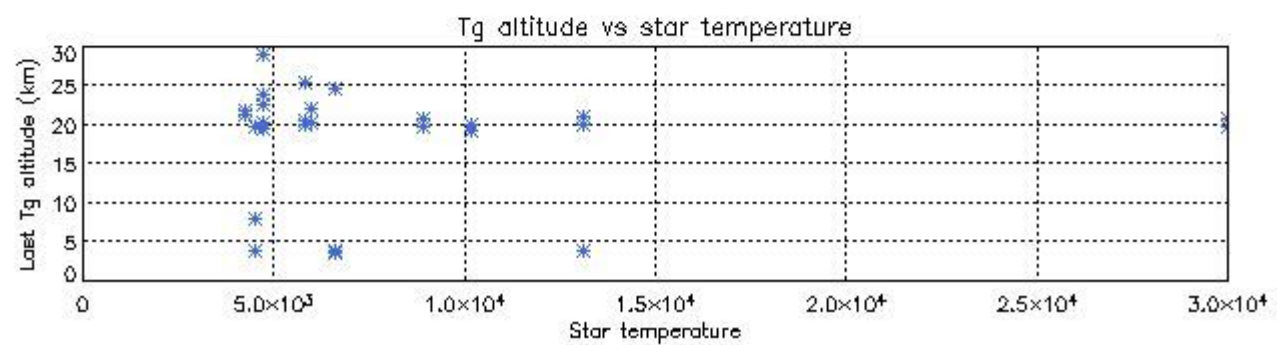
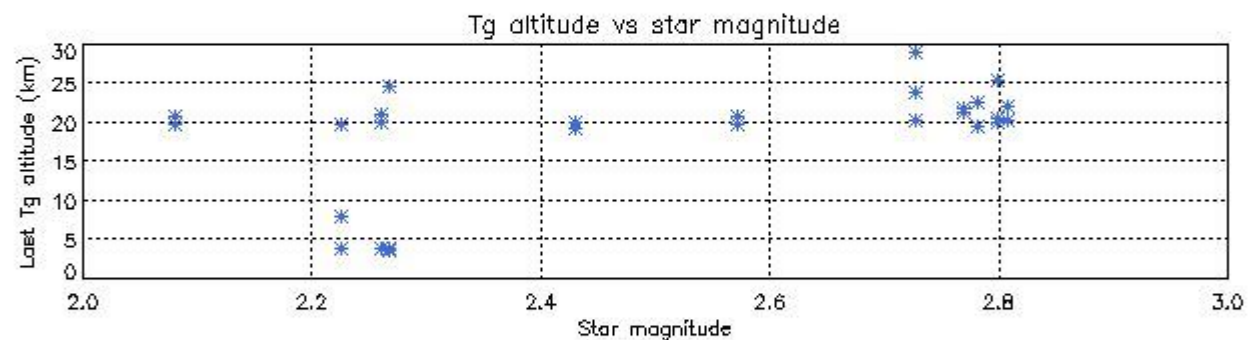
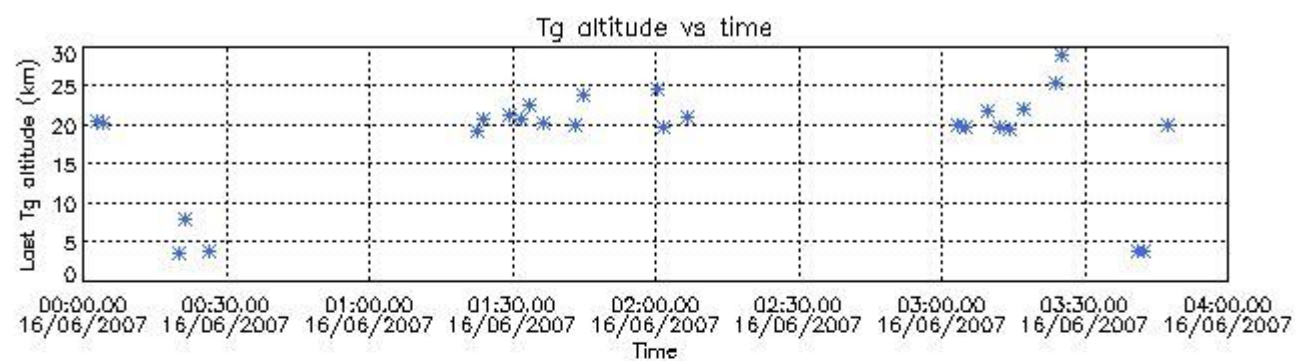
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



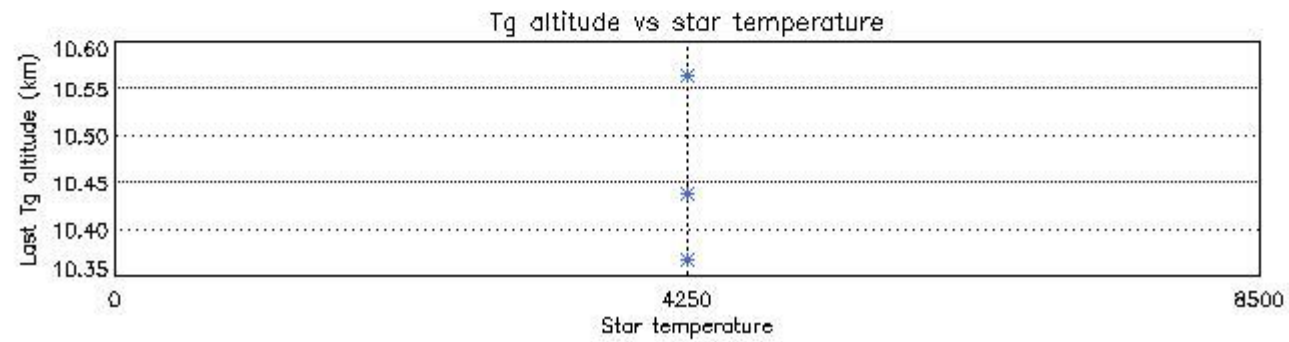
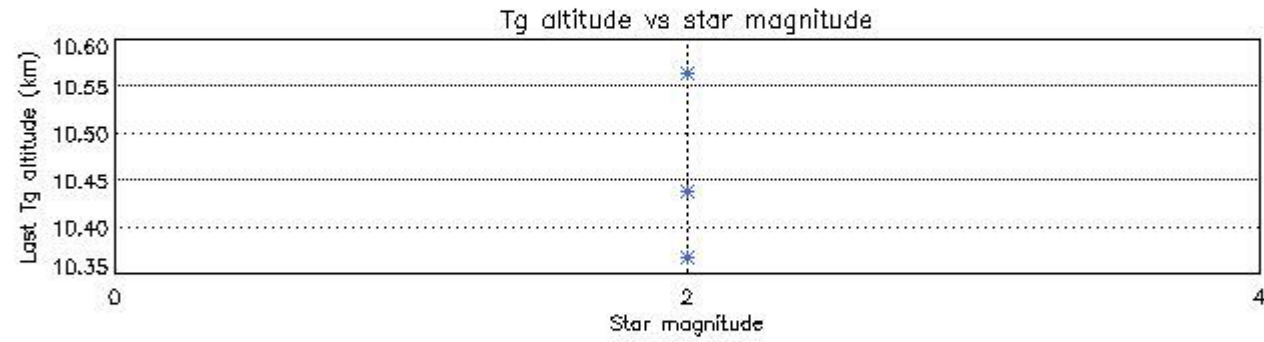
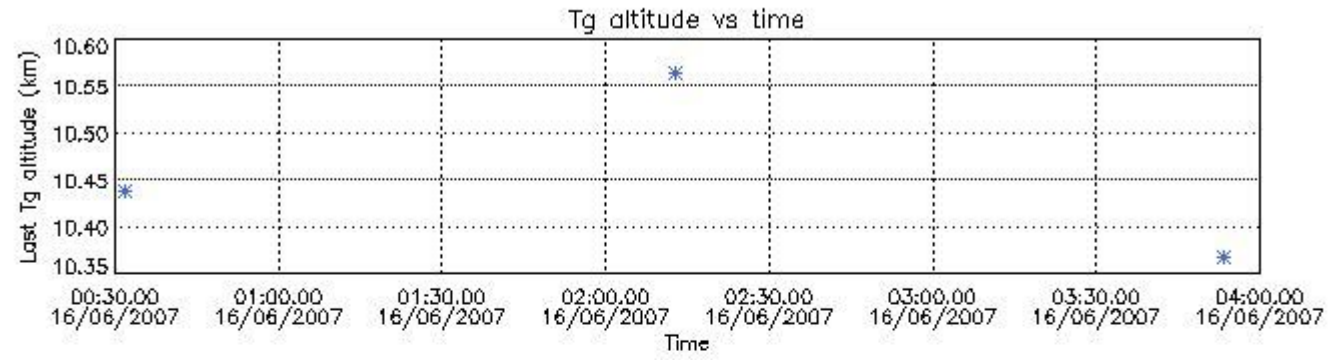
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

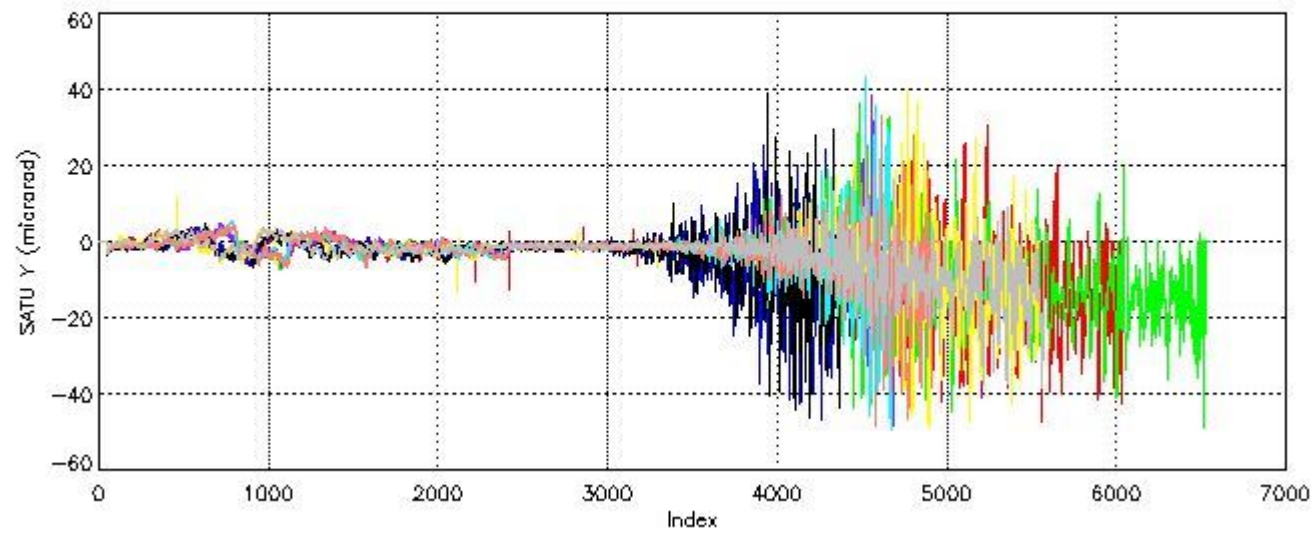
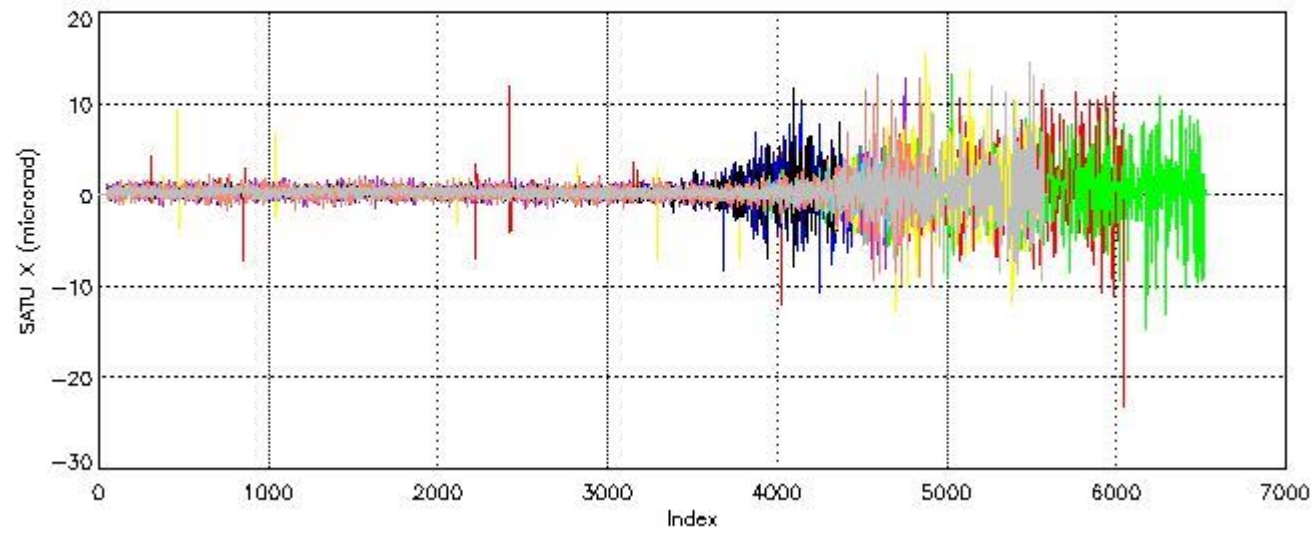


7. Star Acquisition and Tracking Unit (SATU)

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:	0.27942	-0.60669	0.25070	-0.86819
St. deviation:	0.36700	2.0049	0.71518	2.5553
Maximum:	9.2000	11.800	4.6000	6.5000
Minimum:	-7.3000	-7.4000	-3.3000	-8.9000

Number of data:	10400.	10400.	24500.	24500.
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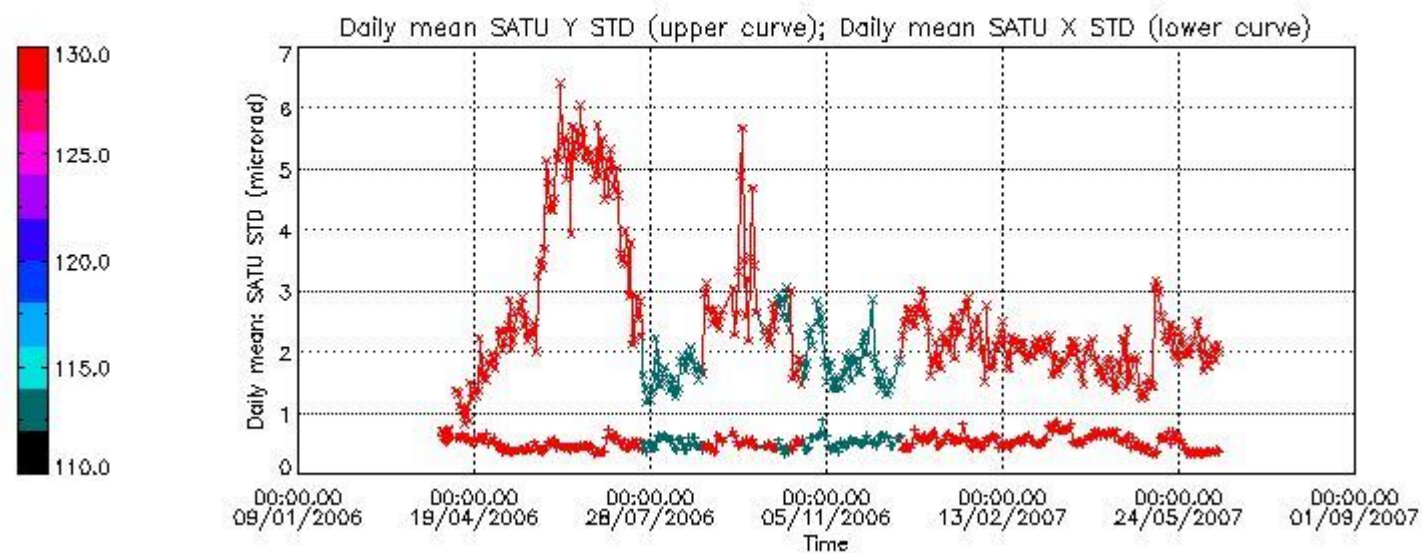
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

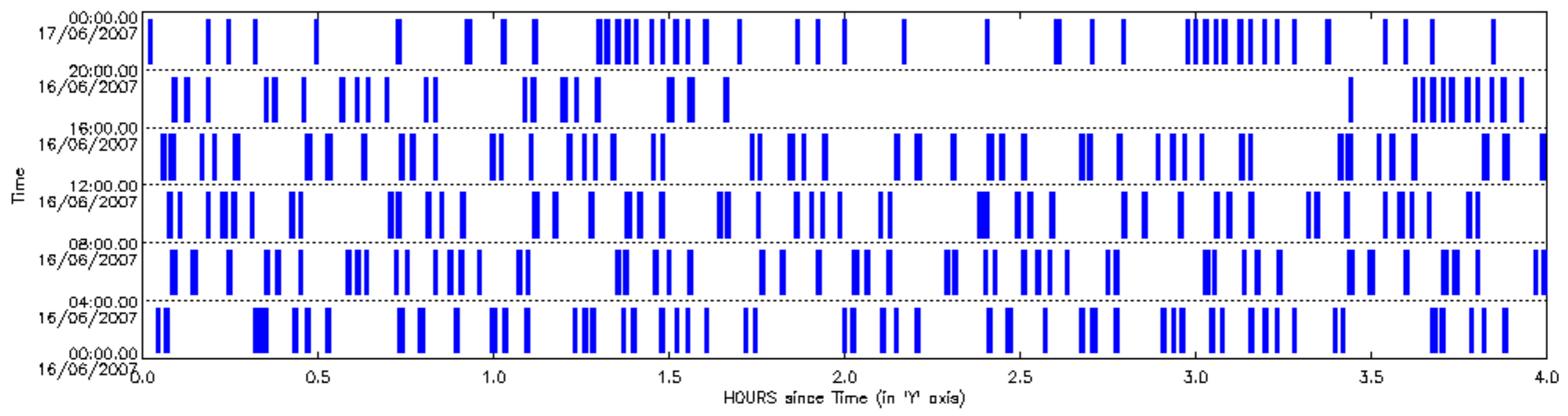
Lower curve: STD of SATU X axis

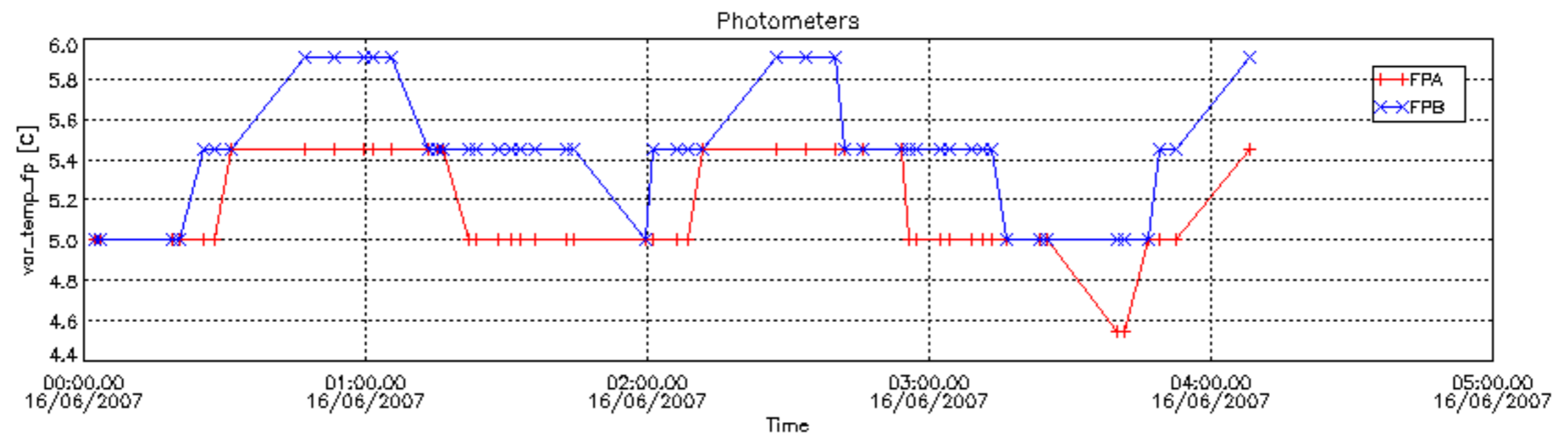
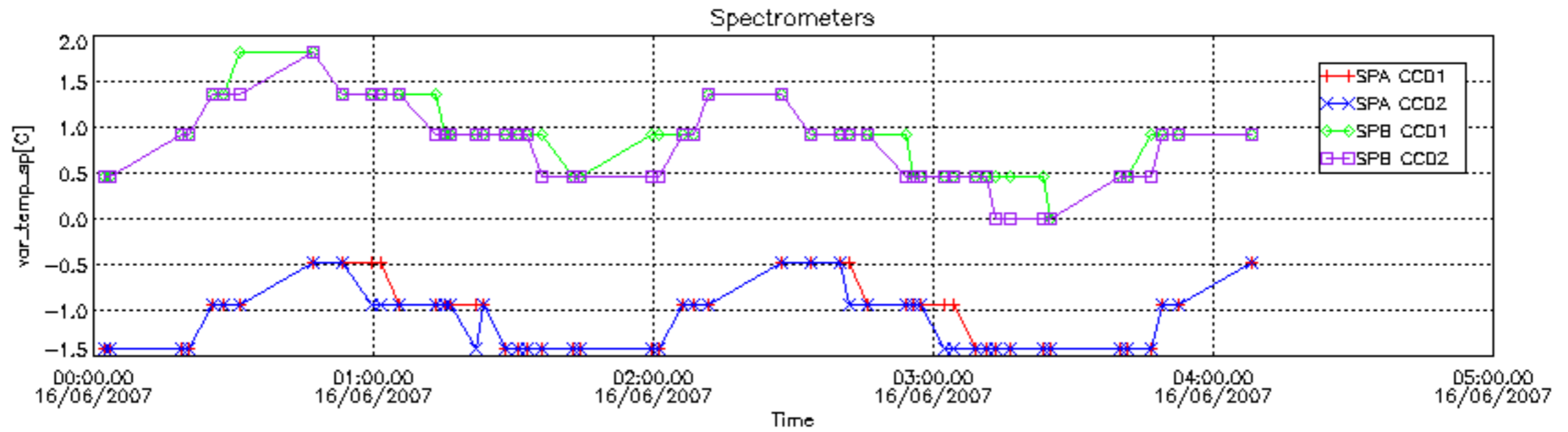


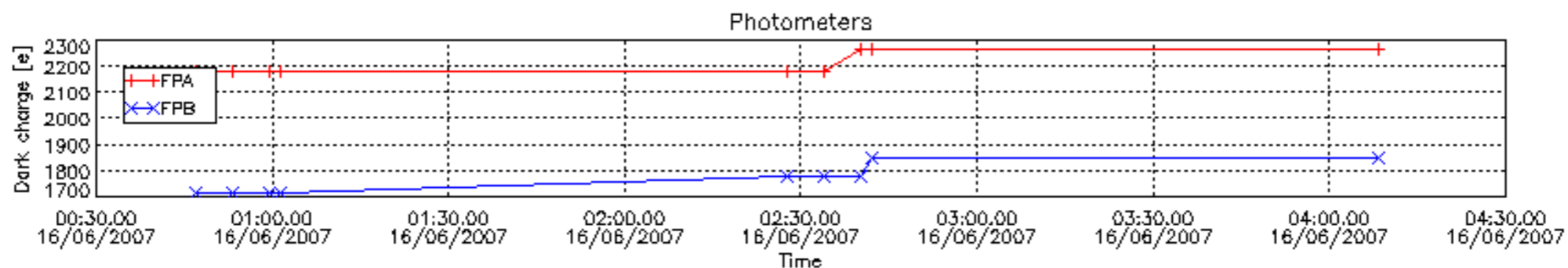
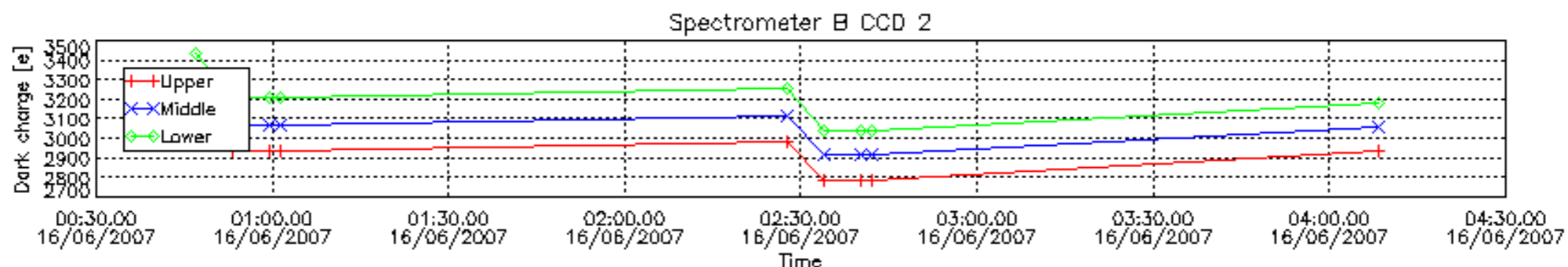
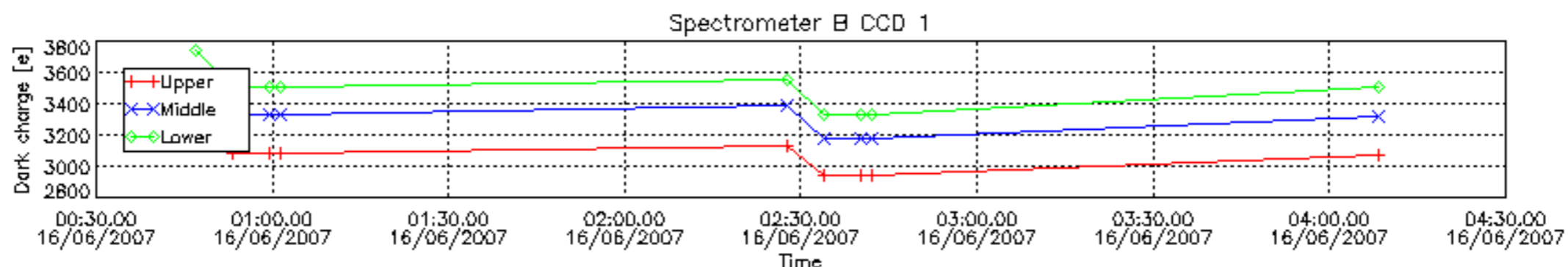
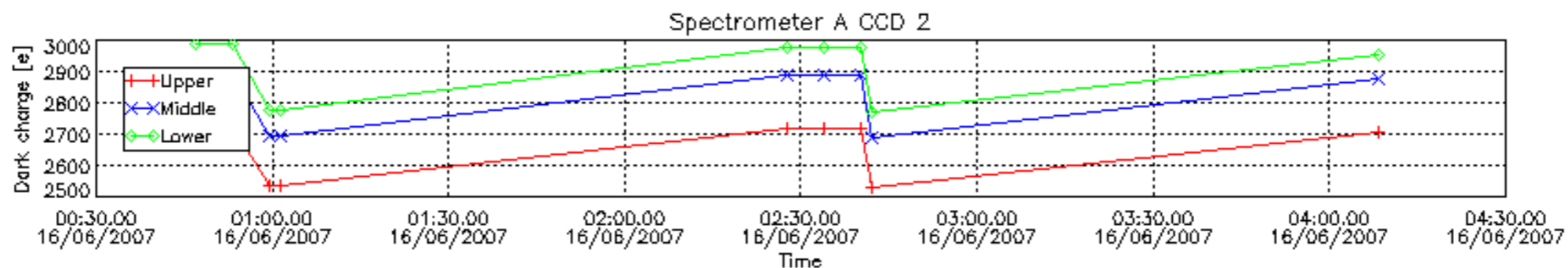
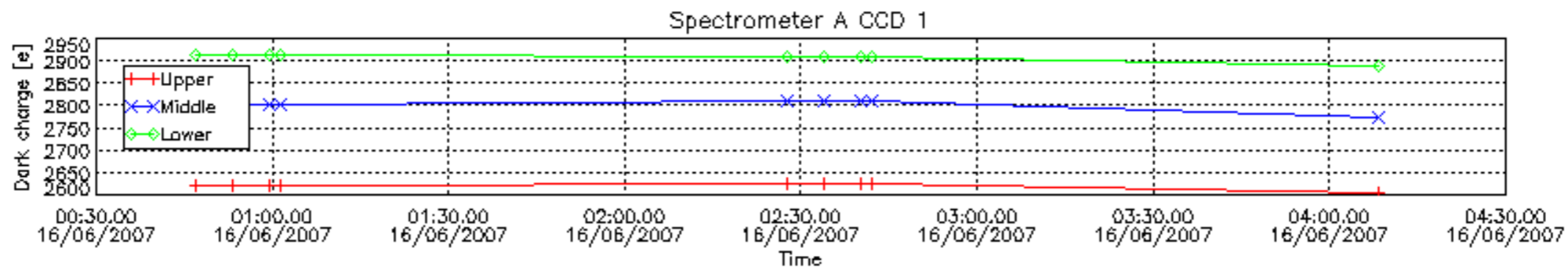
8. Auxiliary Data Files used for the production reported in section 2.4

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

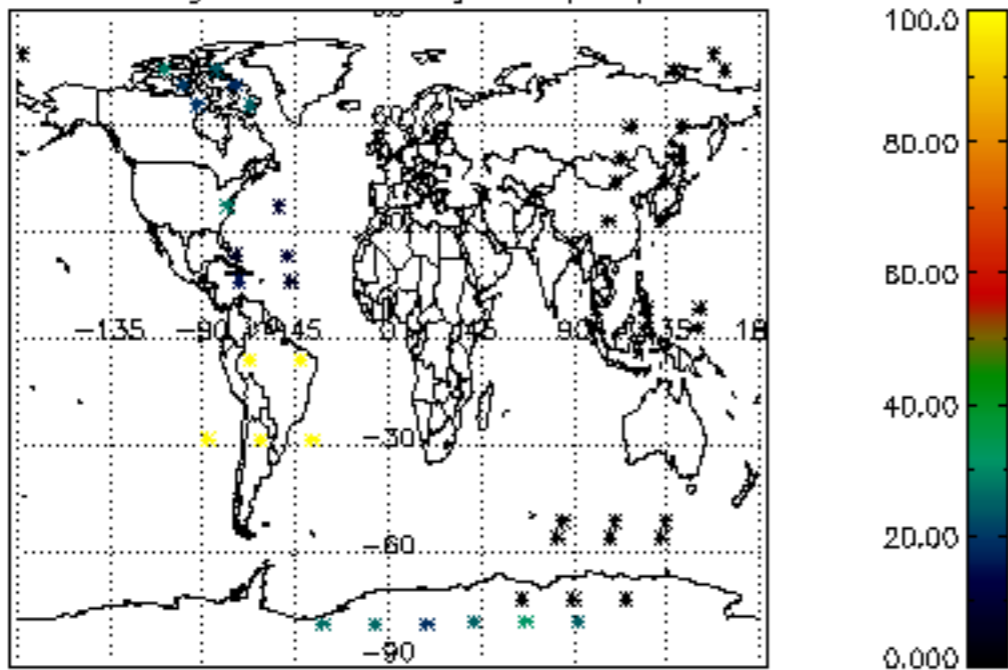
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	16-JUN-2007 00:02:10
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070605_142211_20070604_000000_20100101_000000	1	16-JUN-2007 00:02:10
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	16-JUN-2007 00:02:10
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	16-JUN-2007 00:02:10
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	16-JUN-2007 00:02:10
ECMWF_FILE	AUX_ECF_AXNECM20070615_062111_20070615_210000_20070616_090000	1	16-JUN-2007 00:02:10
ECMWF_FILE	AUX_ECF_AXNECM20070615_182116_20070616_030000_20070616_150000	45	16-JUN-2007 03:40:11
OPTIONAL_ECMWF_FILE	MISSING	1	16-JUN-2007 00:02:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070615_211724_000057382059_00057_27666_3697.N1	1	16-JUN-2007 00:02:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070615_225821_000057382059_00058_27667_3698.N1	8	16-JUN-2007 00:46:59
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070616_003918_000054192059_00059_27668_3699.N1	29	16-JUN-2007 02:27:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070616_021456_000041442059_00060_27669_3700.N1	45	16-JUN-2007 03:40:11



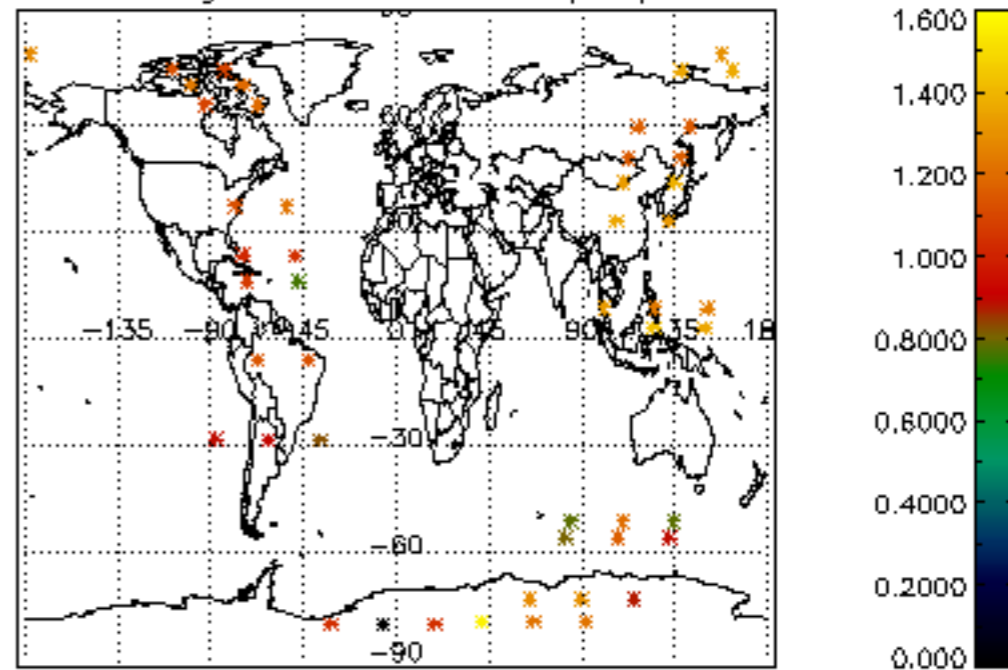




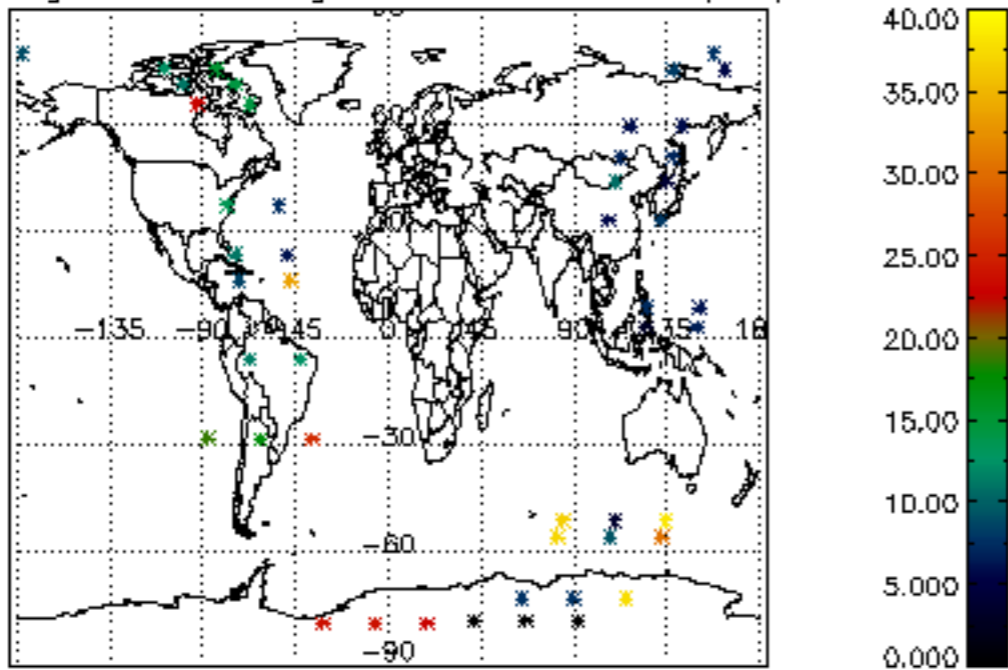
Percentage of cosmic ray hits per profile



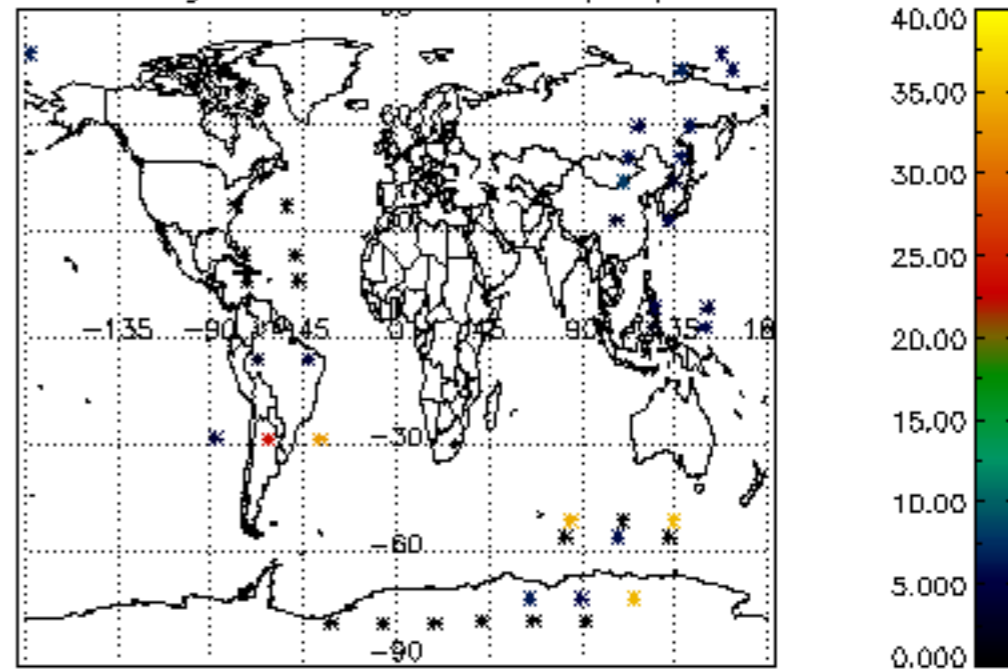
Percentage of datation errors per profile



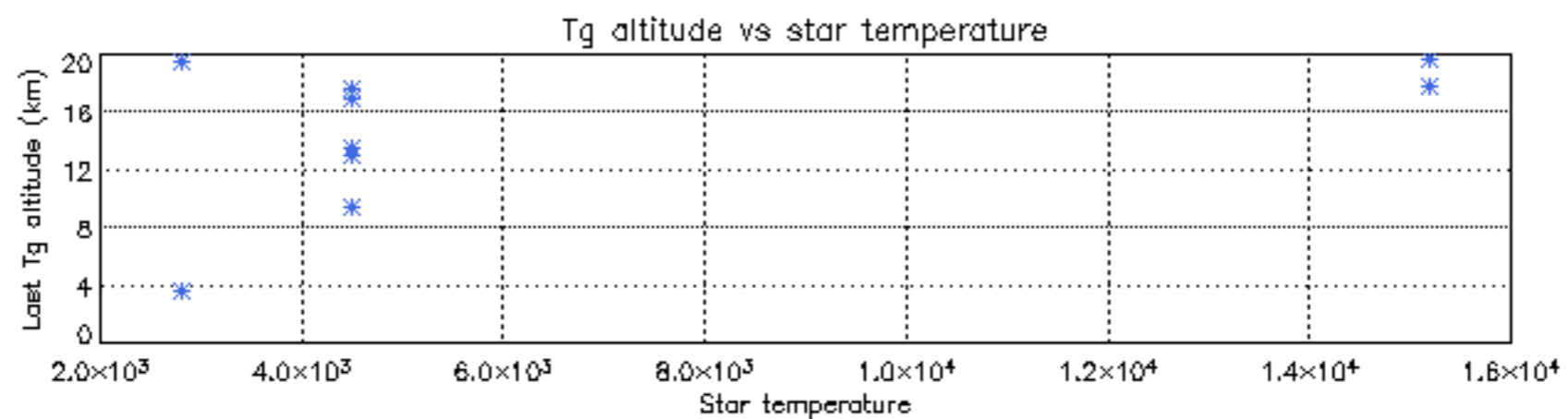
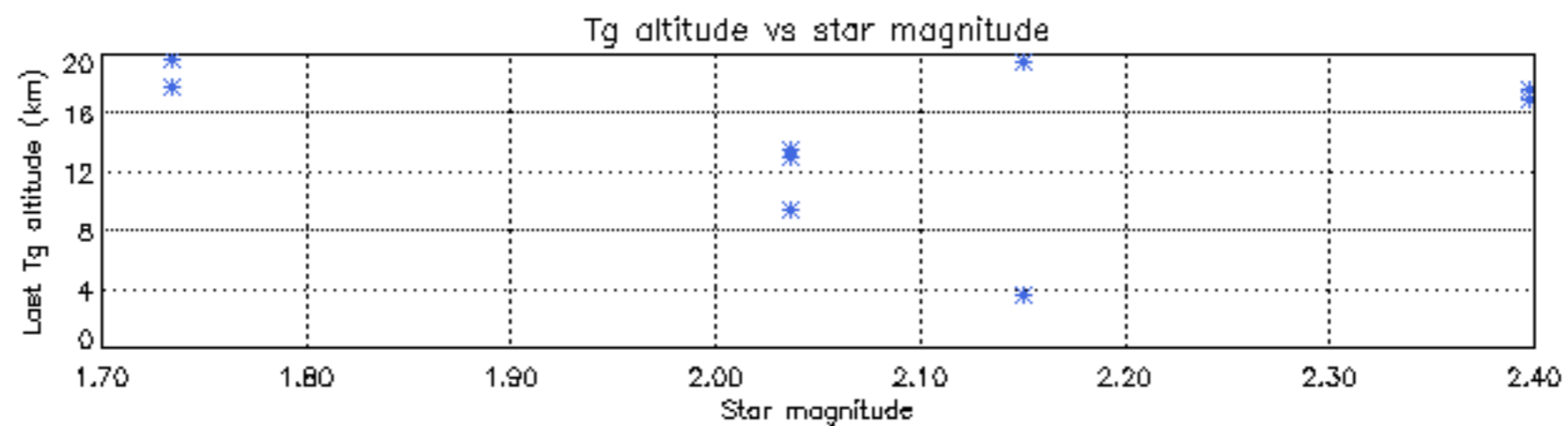
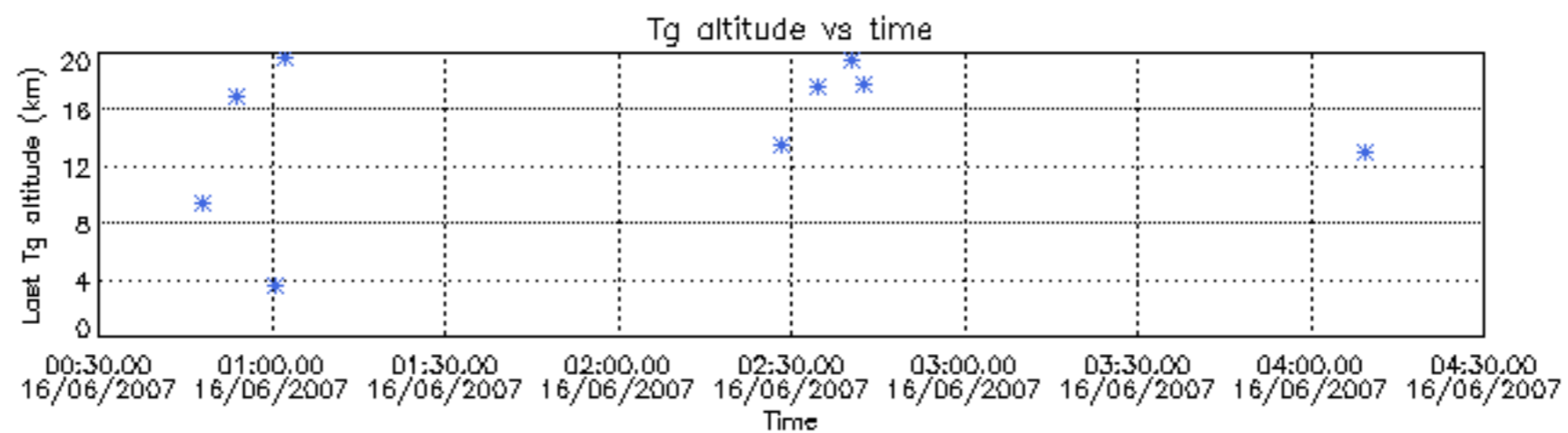
Percentage of star falling outside central band per profile



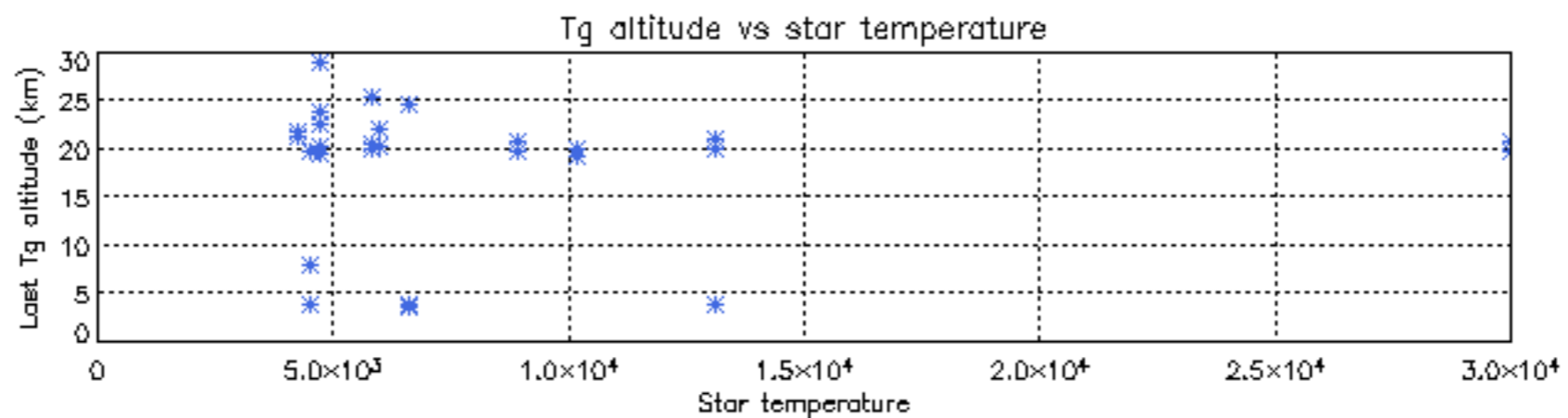
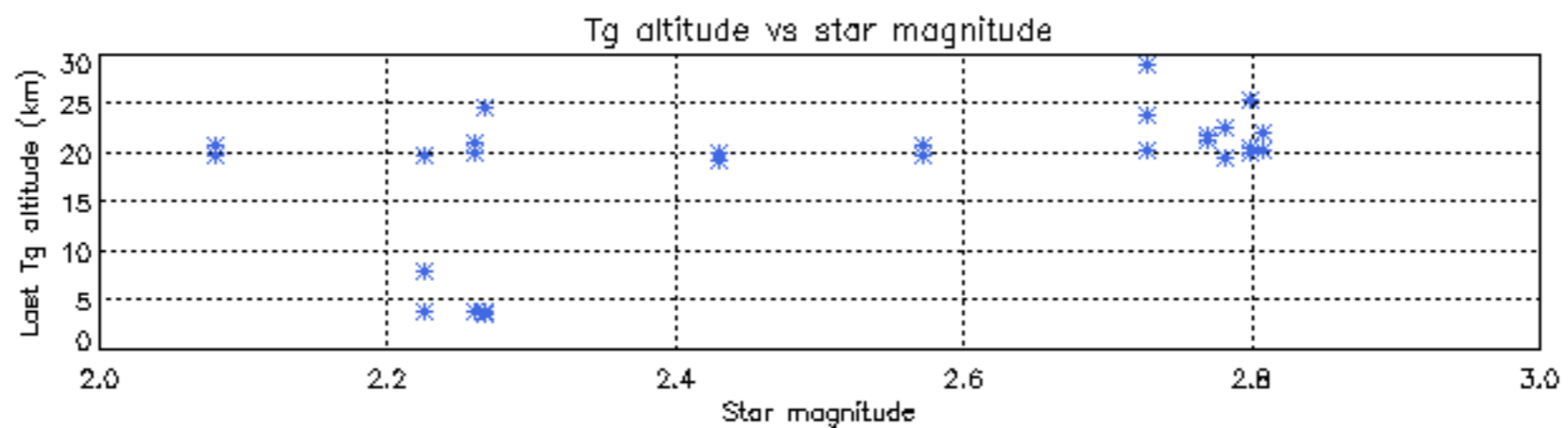
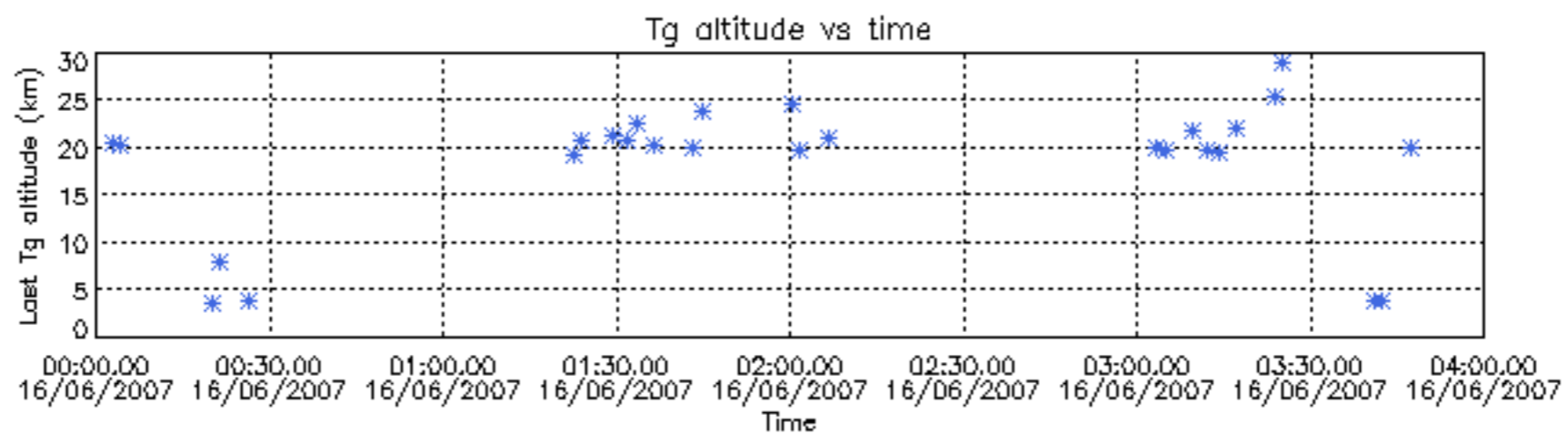
Percentage of saturation errors per profile



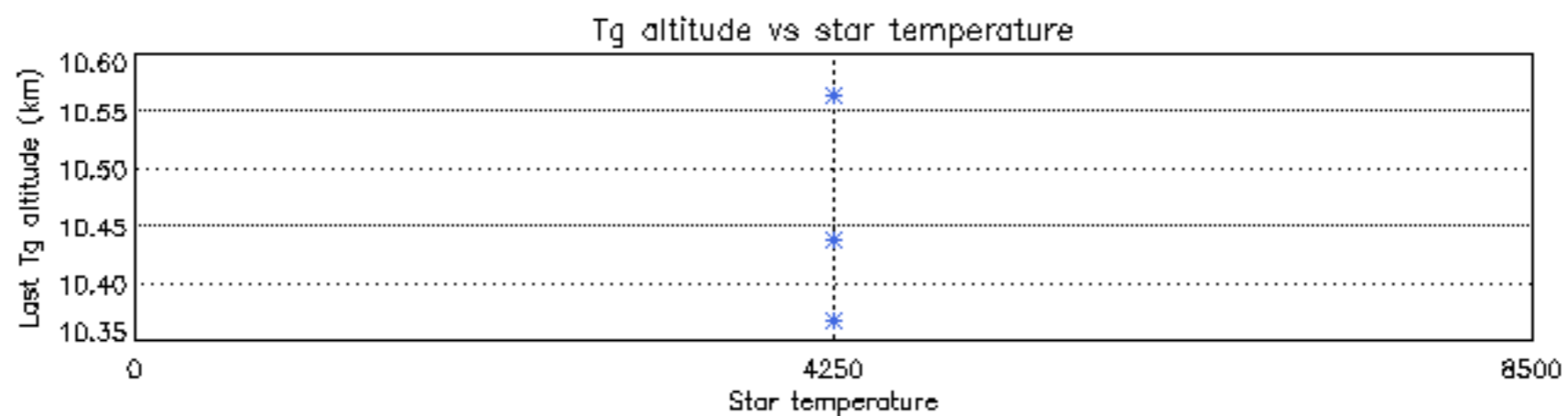
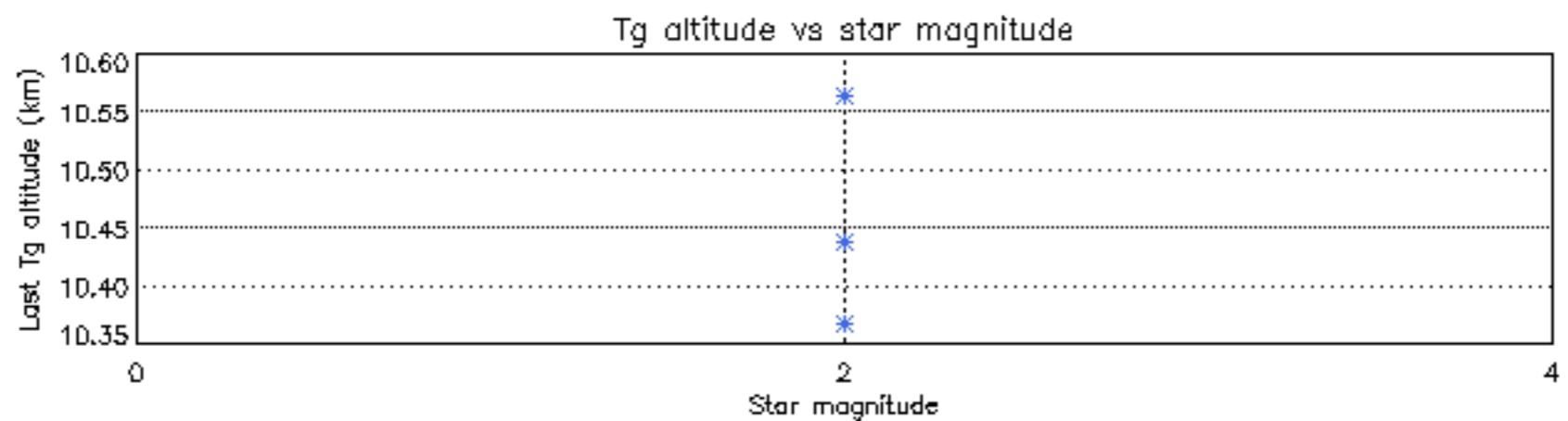
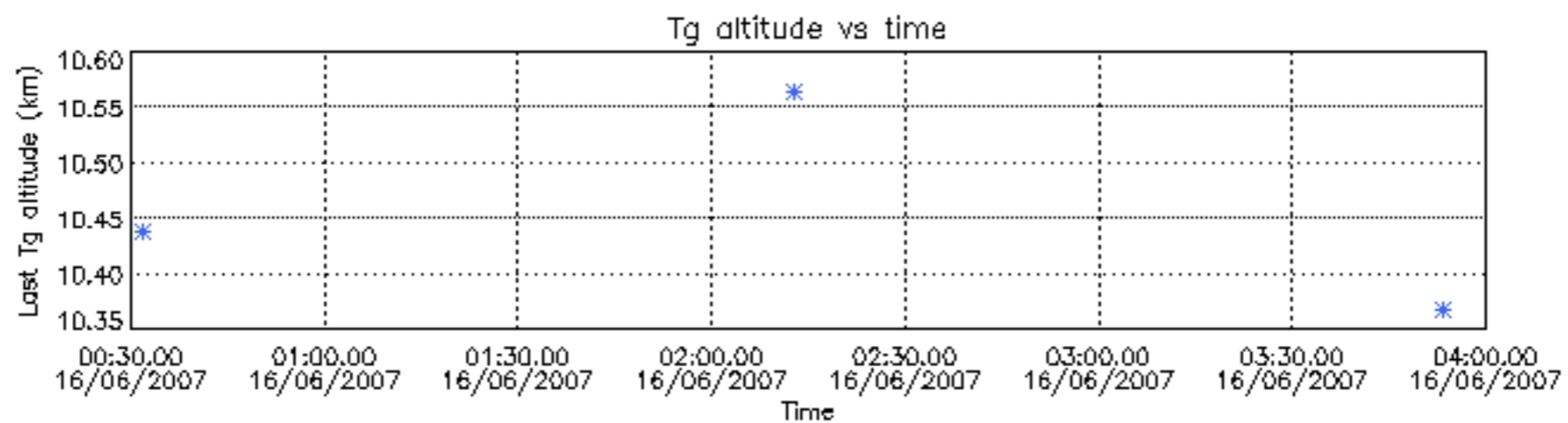
Tangent altitude at which the star is lost

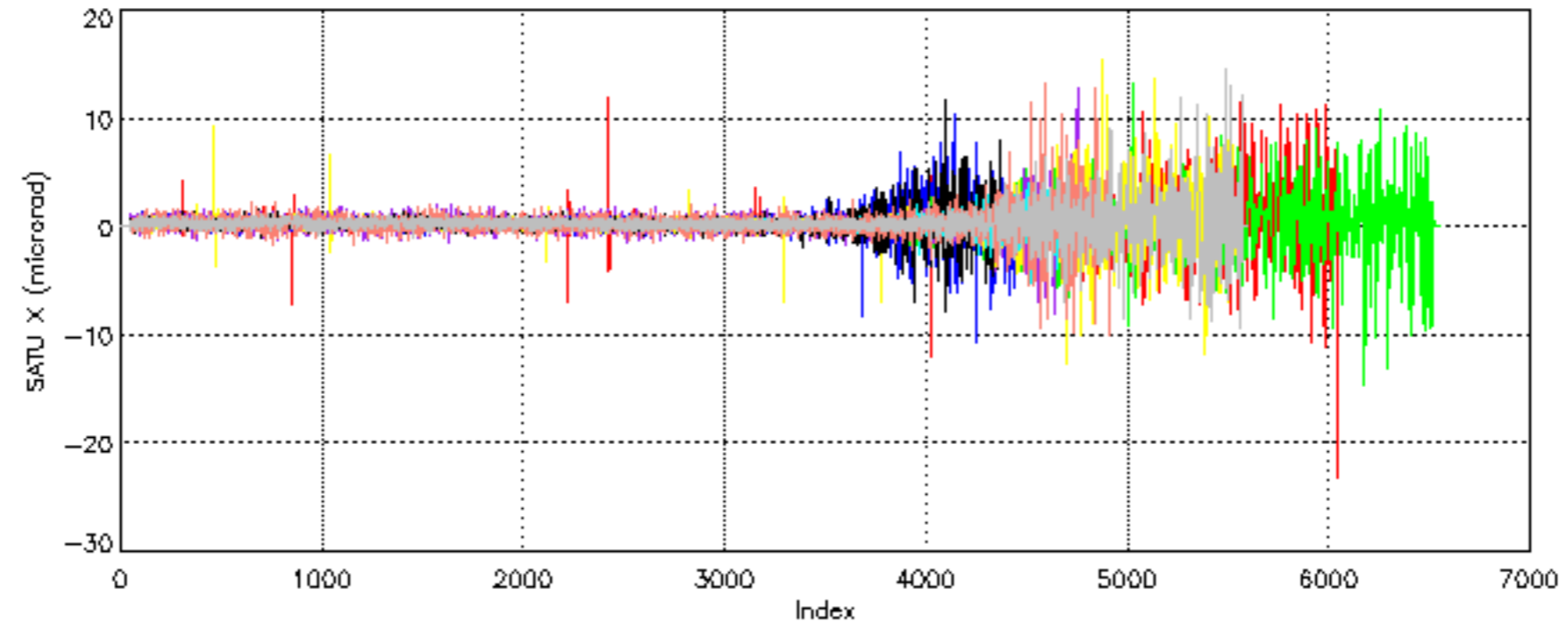


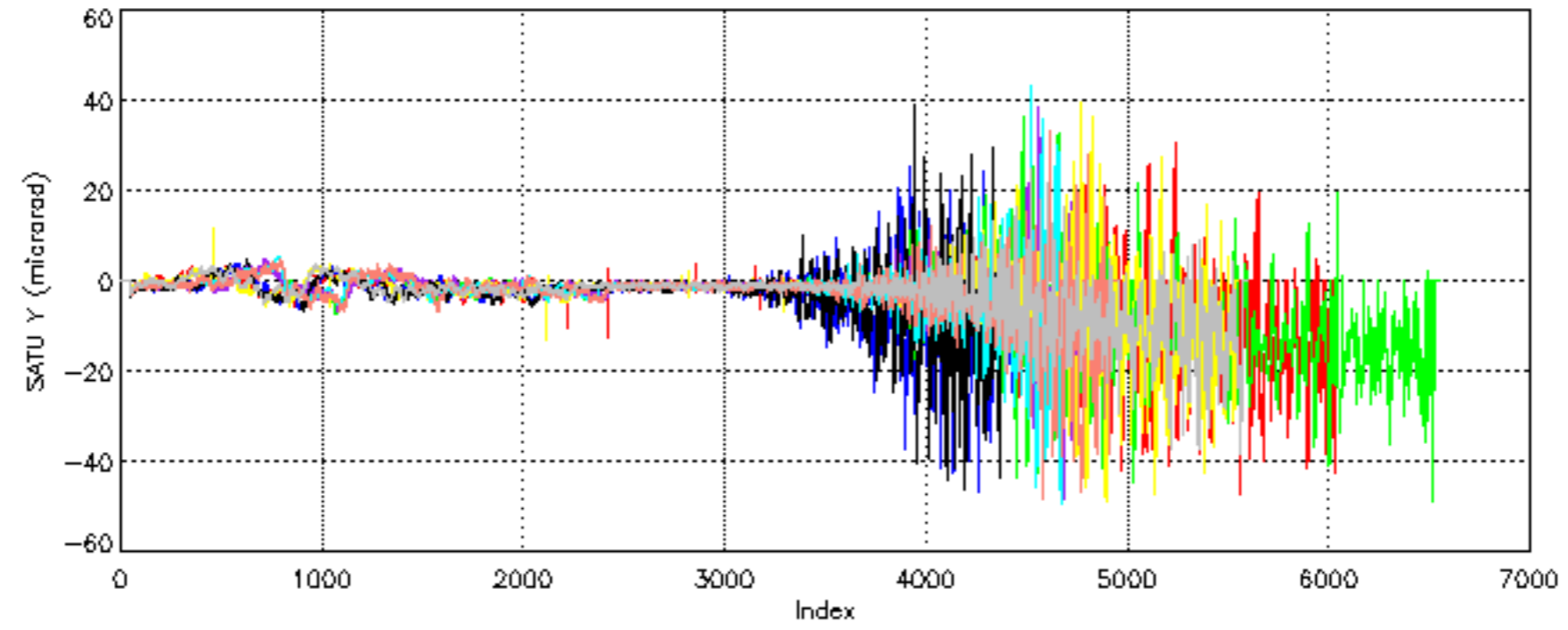
Tangent altitude at which the star is lost

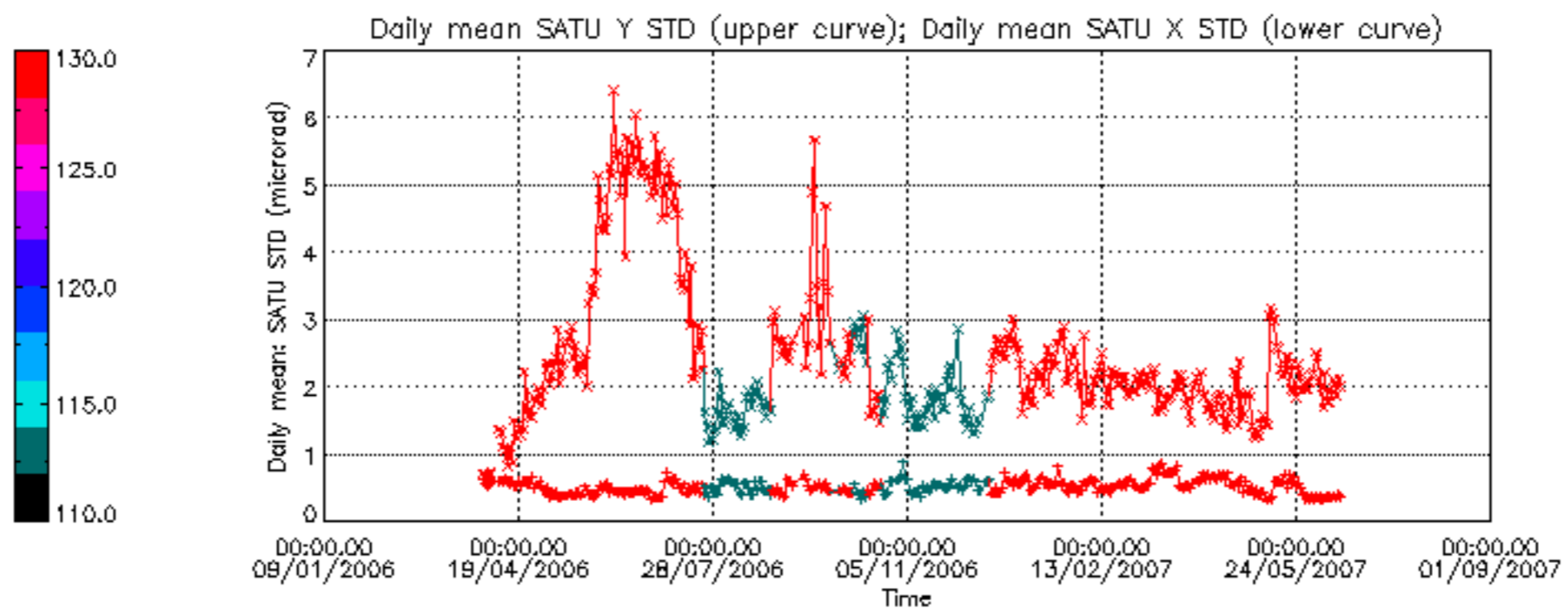


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20070601_001523_000050842058_00345_27453_3813.N1

1; -648.0; 01-JUN-2007 00:15:23; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;27453
 2; -387.5; 01-JUN-2007 00:19:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27453
 3; -245.5; 01-JUN-2007 00:22:06; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;27453
 4; 71.8; 01-JUN-2007 00:27:23; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;27454
 5; 183.7; 01-JUN-2007 00:29:15; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;27454
 6; 483.8; 01-JUN-2007 00:34:15; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27454
 7; 857.6; 01-JUN-2007 00:40:29; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;27454
 8; 932.4; 01-JUN-2007 00:41:44; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;27454
 9; 1033.6; 01-JUN-2007 00:43:25; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;27454
 10; 1141.6; 01-JUN-2007 00:45:13; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;27454
 11; 1248.8; 01-JUN-2007 00:47:00; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;27454
 12; 1430.2; 01-JUN-2007 00:50:01; Bright; 39.0; 156; 20Sig Sco ; 2.90; 28000;occ; 78; 0;27454
 13; 1543.0; 01-JUN-2007 00:51:54; Bright; 37.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 75; 0;27454
 14; 1702.3; 01-JUN-2007 00:54:34; Bright; 41.0; 98; 13Zet Oph ; 2.57; 30000;occ; 82; 0;27454
 15; 1834.1; 01-JUN-2007 00:56:45; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;27454
 16; 2015.0; 01-JUN-2007 00:59:46; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;27454
 17; 2369.9; 01-JUN-2007 01:05:41; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;27454
 18; 3006.7; 01-JUN-2007 01:16:18; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;27454
 19; 3166.1; 01-JUN-2007 01:18:57; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27454
 20; 3446.7; 01-JUN-2007 01:23:38; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27454
 21; 3929.6; 01-JUN-2007 01:31:41; Bright; 55.0; 76; 27Gam Cas ; 2.30; 30000;occ; 110; 0;27454
 22; 4393.6; 01-JUN-2007 01:39:25; Bright; 43.0; 53; 43Bet And ; 2.05; 3300;occ; 86; 0;27454

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20070601_015600_000041292058_00346_27454_3814.N1

1; -647.3; 01-JUN-2007 01:56:00; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 0;27454
 2; -387.1; 01-JUN-2007 02:00:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27454
 3; -244.9; 01-JUN-2007 02:02:42; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;27454
 4; 72.6; 01-JUN-2007 02:08:00; Dark ; 60.0; 63; Bet Gru ; 2.15; 2800;occ; 120; 0;27455
 5; 184.6; 01-JUN-2007 02:09:52; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;27455
 6; 484.5; 01-JUN-2007 02:14:52; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27455
 7; 858.0; 01-JUN-2007 02:21:05; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;27455
 8; 932.9; 01-JUN-2007 02:22:20; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;27455
 9; 1034.0; 01-JUN-2007 02:24:01; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;27455
 10; 1142.0; 01-JUN-2007 02:25:49; Dark ; 48.5; 25; 35Lam Sco ; 1.62; 28000;occ; 97; 0;27455
 11; 1249.1; 01-JUN-2007 02:27:36; Dark ; 47.0; 75; 26Eps Sco ; 2.29; 4250;occ; 94; 0;27455
 12; 1430.5; 01-JUN-2007 02:30:38; Bright; 40.0; 156; 20Sig Sco ; 2.90; 28000;occ; 80; 0;27455
 13; 1543.3; 01-JUN-2007 02:32:30; Bright; 39.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 78; 0;27455
 14; 1702.4; 01-JUN-2007 02:35:10; Bright; 41.5; 98; 13Zet Oph ; 2.57; 30000;occ; 83; 0;27455
 15; 1834.1; 01-JUN-2007 02:37:21; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;27455
 16; 2014.9; 01-JUN-2007 02:40:22; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;27455
 17; 2369.8; 01-JUN-2007 02:46:17; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;27455
 18; 3006.5; 01-JUN-2007 02:56:54; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;27455
 19; 3166.1; 01-JUN-2007 02:59:33; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;27455
 20; 3446.8; 01-JUN-2007 03:04:14; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27455

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1; -2106.4; 01-JUN-2007 03:12:17; Bright; 46.0; 76; 27Gam Cas ; 2.30; 30000;occ; 92; 0;27455
 2; -1642.2; 01-JUN-2007 03:20:01; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;27455
 3; -646.8; 01-JUN-2007 03:36:36; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;27455
 4; -386.7; 01-JUN-2007 03:40:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27455
 5; -244.3; 01-JUN-2007 03:43:19; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;27455
 6; 73.6; 01-JUN-2007 03:48:37; Dark ; 56.0; 63; Bet Gru ; 2.15; 2800;occ; 112; 0;27456
 7; 185.6; 01-JUN-2007 03:50:29; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;27456
 8; 485.4; 01-JUN-2007 03:55:28; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;27456
 9; 858.6; 01-JUN-2007 04:01:42; Dark ; 45.0; 141; Bet Ara ; 2.84; 4600;occ; 90; 0;27456
 10; 933.3; 01-JUN-2007 04:02:56; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;27456
 11; 1034.5; 01-JUN-2007 04:04:38; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;27456
 12; 1142.6; 01-JUN-2007 04:06:26; Dark ; 46.5; 25; 35Lam Sco ; 1.62; 28000;occ; 93; 0;27456
 13; 1249.5; 01-JUN-2007 04:08:13; Dark ; 46.0; 75; 26Eps Sco ; 2.29; 4250;occ; 92; 0;27456
 14; 1409.3; 01-JUN-2007 04:10:52; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;27456
 15; 1543.7; 01-JUN-2007 04:13:07; Bright; 38.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 77; 0;27456
 16; 1702.6; 01-JUN-2007 04:15:46; Bright; 41.5; 98; 13Zet Oph ; 2.57; 30000;occ; 83; 0;27456
 17; 1834.3; 01-JUN-2007 04:17:57; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;27456
 18; 2015.1; 01-JUN-2007 04:20:58; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;27456
 19; 2369.8; 01-JUN-2007 04:26:53; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;27456
 20; 3006.3; 01-JUN-2007 04:37:29; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;27456
 21; 3166.2; 01-JUN-2007 04:40:09; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;27456
 22; 3446.8; 01-JUN-2007 04:44:50; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;27456

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1; -2106.3; 01-JUN-2007 04:52:53; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;27456
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 3; -646.1; 01-JUN-2007 05:17:13; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;27456
 4; -386.2; 01-JUN-2007 05:21:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27456
 5; -243.8; 01-JUN-2007 05:23:55; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;27456
 6; 74.4; 01-JUN-2007 05:29:13; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;27457
 7; 186.6; 01-JUN-2007 05:31:06; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;27457
 8; 486.0; 01-JUN-2007 05:36:05; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27457
 9; 858.9; 01-JUN-2007 05:42:18; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 0;27457
 10; 933.9; 01-JUN-2007 05:43:33; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;27457
 11; 1034.9; 01-JUN-2007 05:45:14; Dark ; 45.5; 40; The Sco ; 1.86; 7100;occ; 91; 0;27457
 12; 1143.0; 01-JUN-2007 05:47:02; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;27457
 13; 1249.7; 01-JUN-2007 05:48:49; Dark ; 47.5; 75; 26Eps Sco ; 2.29; 4250;occ; 95; 0;27457
 14; 1409.5; 01-JUN-2007 05:51:29; Dark ; 53.0; 16; 21Alp Sco ; 1.02; 3000;occ; 106; 0;27457
 15; 1543.7; 01-JUN-2007 05:53:43; Bright; 38.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 77; 0;27457
 16; 1702.7; 01-JUN-2007 05:56:22; Bright; 40.5; 98; 13Zet Oph ; 2.57; 30000;occ; 81; 0;27457
 17; 1834.3; 01-JUN-2007 05:58:33; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;27457
 18; 2015.0; 01-JUN-2007 06:01:34; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;27457
 19; 2369.7; 01-JUN-2007 06:07:29; Bright; 34.5; 67; 5Alp CrB ; 2.22; 11000;occ; 69; 0;27457
 20; 3005.9; 01-JUN-2007 06:18:05; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;27457
 21; 3166.2; 01-JUN-2007 06:20:45; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27457
 22; 3446.9; 01-JUN-2007 06:25:26; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27457

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 2; 937.5; 01-JUN-2007 20:49:00; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;27466
 3; 1038.8; 01-JUN-2007 20:50:41; Dark ; 47.5; 40; The Sco ; 1.86; 7100;occ; 95; 0;27466
 4; 1146.7; 01-JUN-2007 20:52:29; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;27466
 5; 1252.4; 01-JUN-2007 20:54:15; Dark ; 45.5; 75; 26Eps Sco ; 2.29; 4250;occ; 91; 0;27466
 6; 1374.4; 01-JUN-2007 20:56:17; Dark ; 39.0; 136; 23Tau Sco ; 2.82; 30000;occ; 78; 0;27466
 7; 1545.0; 01-JUN-2007 20:59:08; Bright; 38.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 76; 0;27466
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 9; 1834.0; 01-JUN-2007 21:03:57; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;27466
 10; 2014.7; 01-JUN-2007 21:06:57; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;27466
 11; 2368.6; 01-JUN-2007 21:12:51; Bright; 37.5; 67; 5Alp CrB ; 2.22; 11000;occ; 75; 0;27466
 12; 3003.4; 01-JUN-2007 21:23:26; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;27466
 13; 3165.9; 01-JUN-2007 21:26:08; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;27466
 14; 3446.7; 01-JUN-2007 21:30:49; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27466
 15; 3928.7; 01-JUN-2007 21:38:51; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;27466
 16; 4394.9; 01-JUN-2007 21:46:38; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;27466

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 11; 1252.8; 01-JUN-2007 22:34:51; Dark ; 43.5; 75; 26Eps Sco ; 2.29; 4250;occ; 87; 0;27467
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 15; 3925.5; 03-JUN-2007 20:35:34; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;27494
 16; 4397.7; 03-JUN-2007 20:43:26; Bright; 47.5; 53; 43Bet And ; 2.05; 3300;occ; 95; 0;27494

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 4; 107.2; 03-JUN-2007 21:12:32; Dark ; 47.0; 63; Bet Gru ; 2.15; 2800;occ; 94; 0;27495
 5; 222.4; 03-JUN-2007 21:14:27; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;27495
 6; 511.8; 03-JUN-2007 21:19:16; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;27495
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 16; 2014.5; 03-JUN-2007 21:44:19; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;27495
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 22; 4397.6; 03-JUN-2007 22:24:02; Bright; 45.0; 53; 43Bet And ; 2.05; 3300;occ; 90; 0;27495

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 16; 2014.4; 03-JUN-2007 23:24:55; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;27496
 17; 2310.5; 03-JUN-2007 23:29:51; Bright; 41.5; 127; 27Bet Her ; 2.78; 4700;occ; 83; 0;27496
 18; 2995.0; 03-JUN-2007 23:41:15; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;27496
 19; 3165.3; 03-JUN-2007 23:44:06; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;27496
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 22; 4397.8; 04-JUN-2007 00:04:38; Bright; 57.5; 53; 43Bet And ; 2.05; 3300;occ; 115; 0;27496

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14; 6007.7; 03-JUN-2007 09:26:05; Dark ; 35.0; 0; ; 0.00; 0;occ; 70; 0;27487
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16; 6487.6; 03-JUN-2007 09:34:05; Dark ; 98.0; 45; Alp Pav ; 1.94; 26000;occ; 196; 0;27487
17; 6854.2; 03-JUN-2007 09:40:11; Dark ; 91.5; 141; Bet Ara ; 2.84; 4600;occ; 183; 0;27487
18; 7027.9; 03-JUN-2007 09:43:05; Dark ; 102.0; 40; The Sco ; 1.86; 7100;occ; 204; 0;27487
19; 7240.2; 03-JUN-2007 09:46:37; Dark ; 100.0; 75; 26Eps Sco ; 2.29; 4250;occ; 200; 0;27487
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6; 3395.3; 03-JUN-2007 10:23:08; Bright; 87.0; 49; 1Alp UMi ; 1.99; 6300;occ; 174; 0;27488
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14; 6854.6; 03-JUN-2007 11:20:48; Dark ; 94.5; 141; Bet Ara ; 2.84; 4600;occ; 189; 0;27488
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6; 3395.2; 03-JUN-2007 12:03:44; Bright; 87.0; 49; 1Alp UMi ; 1.99; 6300;occ; 174; 0;27489
7; 3871.2; 03-JUN-2007 12:11:40; Bright; 91.5; 76; 27Gam Cas ; 2.30; 30000;occ; 183; 0;27489
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13;	3188.2;	29-JUN-2007	18:25:27;	Bright;		35.5;	60;	7Bet UMi	;	2.08;	3950;occ;	71;	0;	27865
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16;	4164.6;	29-JUN-2007	18:41:43;	Bright;		37.0;	175;	39Del Per	;	3.01;	19400;occ;	74;	0;	27865
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19;	5194.8;	29-JUN-2007	18:58:53;	Dark	;	40.5;	165;	34Gam Eri	;	2.95;	3200;occ;	81;	0;	27865
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22;	6505.5;	29-JUN-2007	19:20:44;	Dark	;	42.5;	148;	Alp Tuc	;	2.88;	4100;occ;	85;	0;	27865
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4;	1350.1;	29-JUN-2007	19:35:25;	Dark	;	49.0;	116;	19Del Sgr	;	2.70;	4100;occ;	98;	0;	27866
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