

GOMOS Daily Report 06-DEC-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	08DEC2007 05:36:43
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (06DEC2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (07DEC2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	1

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

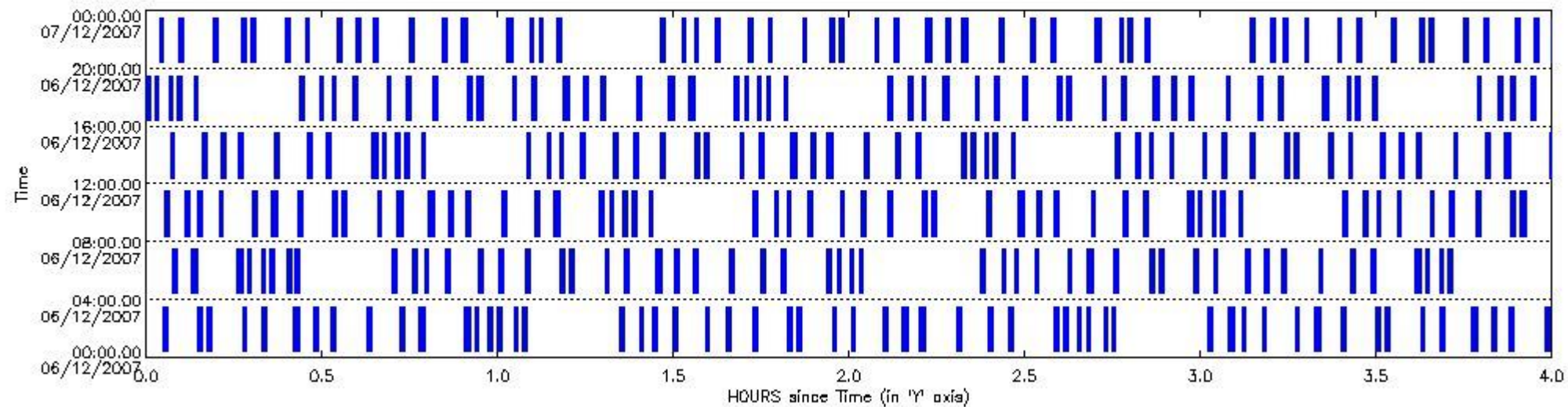
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

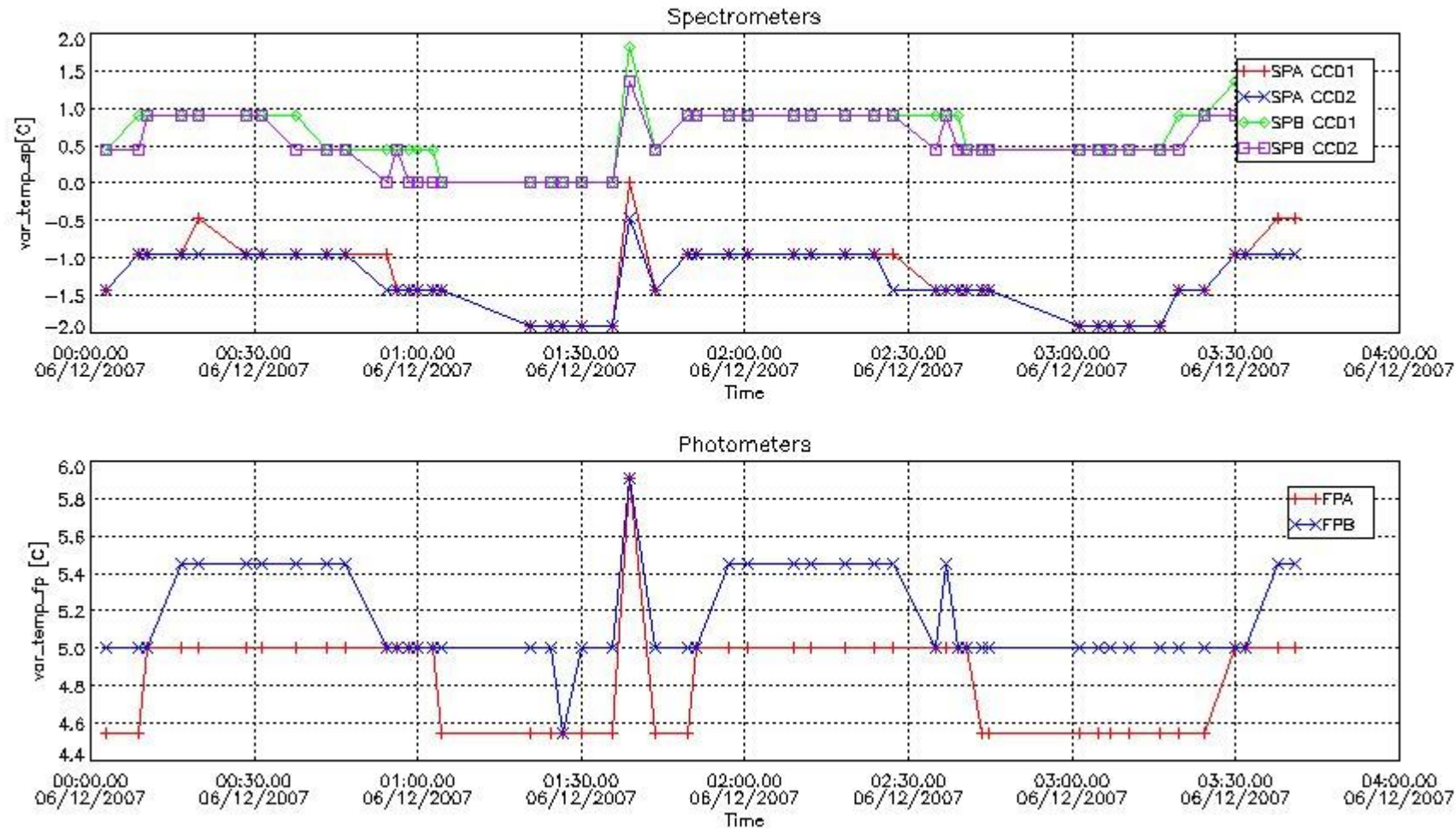
No missing products.

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_1PNPDE20071206_000251_000000492064_00030_30144_4536.N1	06-DEC-2007 00:02:51	Bright	48.500	121	29Gam Vir	2.7400	7200.0	97	30144	No
2	GOM_TRA_1PNPDE20071206_000846_000000472064_00030_30144_4537.N1	06-DEC-2007 00:08:46	Dark	47.000	100	4Gam Crv	2.5800	13100.	94	30144	No
3	GOM_TRA_1PNPDE20071206_001023_000000502064_00030_30144_4538.N1	06-DEC-2007 00:10:23	Dark	50.000	171	2Eps Crv	3.0010	4250.0	100	30144	No
4	GOM_TRA_1PNPDE20071206_001630_000000392064_00030_30144_4539.N1	06-DEC-2007 00:16:30	Dark	39.000	99	Del Cen	2.5750	26000.	78	30144	No
5	GOM_TRA_1PNPDE20071206_001946_000000452064_00031_30145_4540.N1	06-DEC-2007 00:19:46	Dark	45.000	113	Mu Vel	2.6920	5000.0	90	30145	No
6	GOM_TRA_1PNPDE20071206_002827_000000522064_00031_30145_4541.N1	06-DEC-2007 00:28:27	Dark	51.500	34	Gam2Vel	1.7930	23000.	103	30145	No
7	GOM_TRA_1PNPDE20071206_003126_000000572064_00031_30145_4542.N1	06-DEC-2007 00:31:26	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	30145	No
8	GOM_TRA_1PNPDE20071206_003744_000000422064_00031_30145_4543.N1	06-DEC-2007 00:37:44	Dark	42.000	108	Alp Col	2.6520	15200.	84	30145	No
9	GOM_TRA_1PNPDE20071206_004311_000000512064_00031_30145_4544.N1	06-DEC-2007 00:43:11	Straylight	50.500	101	11Alp Lep	2.5820	7000.0	101	30145	No
10	GOM_TRA_1PNPDE20071206_004635_000000552064_00031_30145_4545.N1	06-DEC-2007 00:46:35	Straylight	55.000	7	19Bet Ori	0.10000	14000.	110	30145	No
11	GOM_TRA_1PNPDE20071206_005419_000000592064_00031_30145_4546.N1	06-DEC-2007 00:54:19	Bright	59.000	13	87Alp Tau	0.86700	3800.0	118	30145	No
12	GOM_TRA_1PNPDE20071206_005607_000000372064_00031_30145_4547.N1	06-DEC-2007 00:56:07	Bright	36.500	146	25Eta Tau	2.8730	15200.	73	30145	No

13	GOM_TRA_1PNPDE20071206_005825_000000382064_00031_30145_4548.N1	06-DEC-2007 00:58:25	Bright	37.500	150	44Zet Per	2.8900	28000.	75	30145	No
14	GOM_TRA_1PNPDE20071206_005956_000000462064_00031_30145_4549.N1	06-DEC-2007 00:59:56	Bright	45.500	114	3lot Aur	2.6930	4600.0	91	30145	No
15	GOM_TRA_1PNPDE20071206_010254_000000352064_00031_30145_4550.N1	06-DEC-2007 01:02:54	Bright	35.000	175	39Del Per	3.0100	19400.	70	30145	No
16	GOM_TRA_1PNPDE20071206_010415_000000492064_00031_30145_4551.N1	06-DEC-2007 01:04:15	Bright	48.500	6	13Alp Aur	0.080000	3400.0	97	30145	No
17	GOM_TRA_1PNPDE20071206_012043_000000452064_00031_30145_4552.N1	06-DEC-2007 01:20:43	Bright	44.500	36	50Alp UMa	1.8000	6300.0	89	30145	No
18	GOM_TRA_1PNPDE20071206_012414_000000402064_00031_30145_4553.N1	06-DEC-2007 01:24:14	Bright	39.500	32	77Eps UMa	1.7630	11000.	79	30145	No
19	GOM_TRA_1PNPDE20071206_012627_000000542064_00031_30145_4554.N1	06-DEC-2007 01:26:27	Bright	54.000	39	85Eta UMa	1.8540	24000.	108	30145	No
20	GOM_TRA_1PNPDE20071206_012958_000000402064_00031_30145_4555.N1	06-DEC-2007 01:29:58	Bright	40.000	152	12Alp2CVn	2.8900	11000.	80	30145	No
21	GOM_TRA_1PNPDE20071206_013535_000000372064_00031_30145_4556.N1	06-DEC-2007 01:35:35	Bright	36.500	111	8Eta Boo	2.6800	6000.0	73	30145	No
22	GOM_TRA_1PNPDE20071206_013853_000000582064_00031_30145_4678.N1	06-DEC-2007 01:38:53	Bright	57.500	138	47Eps Vir	2.8280	4700.0	115	30145	Yes
23	GOM_TRA_1PNPDE20071206_014328_000000482064_00031_30145_4679.N1	06-DEC-2007 01:43:28	Bright	47.500	121	29Gam Vir	2.7400	7200.0	95	30145	No
24	GOM_TRA_1PNPDE20071206_014923_000000522064_00031_30145_4680.N1	06-DEC-2007 01:49:23	Dark	51.500	100	4Gam Crv	2.5800	13100.	103	30145	No
25	GOM_TRA_1PNPDE20071206_015059_000000542064_00031_30145_4681.N1	06-DEC-2007 01:50:59	Dark	54.000	171	2Eps Crv	3.0010	4250.0	108	30145	No
26	GOM_TRA_1PNPDE20071206_015706_000000392064_00031_30145_4682.N1	06-DEC-2007 01:57:06	Dark	38.500	99	Del Cen	2.5750	26000.	77	30145	No
27	GOM_TRA_1PNPDE20071206_020023_000000442064_00032_30146_4683.N1	06-DEC-2007 02:00:23	Dark	44.000	113	Mu Vel	2.6920	5000.0	88	30146	No
28	GOM_TRA_1PNPDE20071206_020904_000000552064_00032_30146_4684.N1	06-DEC-2007 02:09:04	Dark	54.500	34	Gam2Vel	1.7930	23000.	109	30146	No
29	GOM_TRA_1PNPDE20071206_021202_000000572064_00032_30146_4685.N1	06-DEC-2007 02:12:02	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	30146	No
30	GOM_TRA_1PNPDE20071206_021820_000000462064_00032_30146_4686.N1	06-DEC-2007 02:18:20	Dark	46.000	108	Alp Col	2.6520	15200.	92	30146	No
31	GOM_TRA_1PNPDE20071206_022347_000000502064_00032_30146_4687.N1	06-DEC-2007 02:23:47	Straylight	49.500	101	11Alp Lep	2.5820	7000.0	99	30146	No
32	GOM_TRA_1PNPDE20071206_022711_000000552064_00032_30146_4688.N1	06-DEC-2007 02:27:11	Straylight	54.500	7	19Bet Ori	0.10000	14000.	109	30146	No
33	GOM_TRA_1PNPDE20071206_023455_000000592064_00032_30146_4689.N1	06-DEC-2007 02:34:55	Bright	58.500	13	87Alp Tau	0.86700	3800.0	117	30146	No
34	GOM_TRA_1PNPDE20071206_023643_000000392064_00032_30146_4690.N1	06-DEC-2007 02:36:43	Bright	38.500	146	25Eta Tau	2.8730	15200.	77	30146	No
35	GOM_TRA_1PNPDE20071206_023901_000000382064_00032_30146_4691.N1	06-DEC-2007 02:39:01	Bright	37.500	150	44Zet Per	2.8900	28000.	75	30146	No
36	GOM_TRA_1PNPDE20071206_024031_000000442064_00032_30146_4692.N1	06-DEC-2007 02:40:31	Bright	43.500	114	3lot Aur	2.6930	4600.0	87	30146	No
37	GOM_TRA_1PNPDE20071206_024329_000000352064_00032_30146_4693.N1	06-DEC-2007 02:43:29	Bright	34.500	175	39Del Per	3.0100	19400.	69	30146	No
38	GOM_TRA_1PNPDE20071206_024450_000000442064_00032_30146_4694.N1	06-DEC-2007 02:44:50	Bright	43.500	6	13Alp Aur	0.080000	3400.0	87	30146	No
39	GOM_TRA_1PNPDE20071206_030119_000000472064_00032_30146_4850.N1	06-DEC-2007 03:01:19	Bright	46.500	36	50Alp UMa	1.8000	6300.0	93	30146	No
40	GOM_TRA_1PNPDE20071206_030450_000000562064_00032_30146_4851.N1	06-DEC-2007 03:04:50	Bright	56.000	32	77Eps UMa	1.7630	11000.	112	30146	No
41	GOM_TRA_1PNPDE20071206_030703_000000372064_00032_30146_4852.N1	06-DEC-2007 03:07:03	Bright	36.500	39	85Eta UMa	1.8540	24000.	73	30146	No
42	GOM_TRA_1PNPDE20071206_031034_000000442064_00032_30146_4853.N1	06-DEC-2007 03:10:34	Bright	44.000	152	12Alp2CVn	2.8900	11000.	88	30146	No
43	GOM_TRA_1PNPDE20071206_031612_000000362064_00032_30146_4854.N1	06-DEC-2007 03:16:12	Bright	35.500	111	8Eta Boo	2.6800	6000.0	71	30146	No
44	GOM_TRA_1PNPDE20071206_031929_000000622064_00032_30146_4855.N1	06-DEC-2007 03:19:29	Bright	62.000	138	47Eps Vir	2.8280	4700.0	124	30146	No
45	GOM_TRA_1PNPDE20071206_032405_000000522064_00032_30146_4856.N1	06-DEC-2007 03:24:05	Bright	51.500	121	29Gam Vir	2.7400	7200.0	103	30146	No
46	GOM_TRA_1PNPDE20071206_033000_000000472064_00032_30146_4857.N1	06-DEC-2007 03:30:00	Dark	46.500	100	4Gam Crv	2.5800	13100.	93	30146	No
47	GOM_TRA_1PNPDE20071206_033136_000000502064_00032_30146_4858.N1	06-DEC-2007 03:31:36	Dark	49.500	171	2Eps Crv	3.0010	4250.0	99	30146	No
48	GOM_TRA_1PNPDE20071206_033742_000000392064_00032_30146_4859.N1	06-DEC-2007 03:37:42	Dark	38.500	99	Del Cen	2.5750	26000.	77	30146	No
49	GOM_TRA_1PNPDE20071206_034100_000000442064_00033_30147_4860.N1	06-DEC-2007 03:41:00	Dark	43.500	113	Mu Vel	2.6920	5000.0	87	30147	No

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



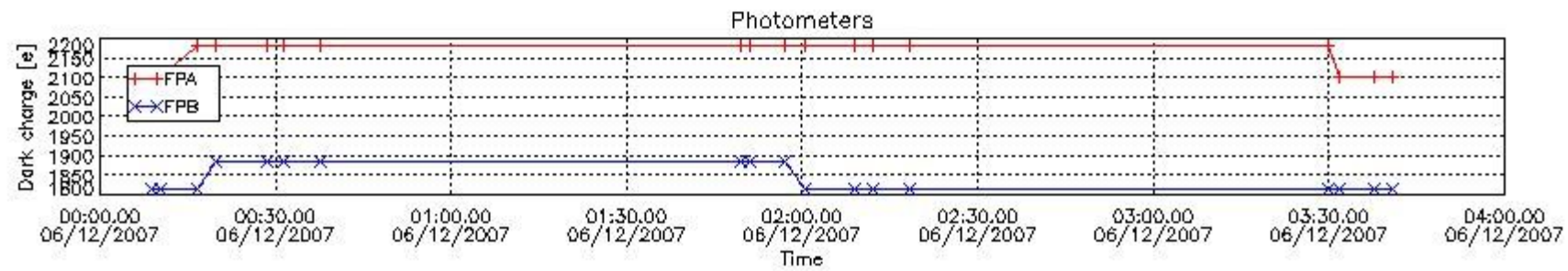
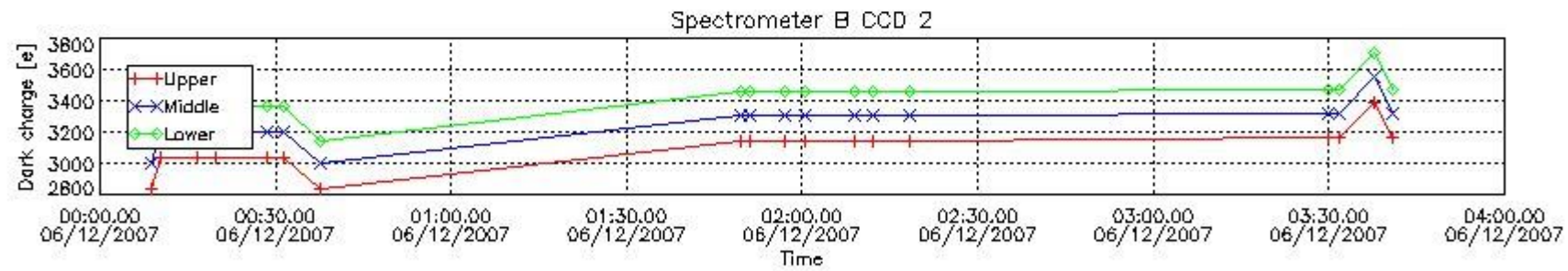
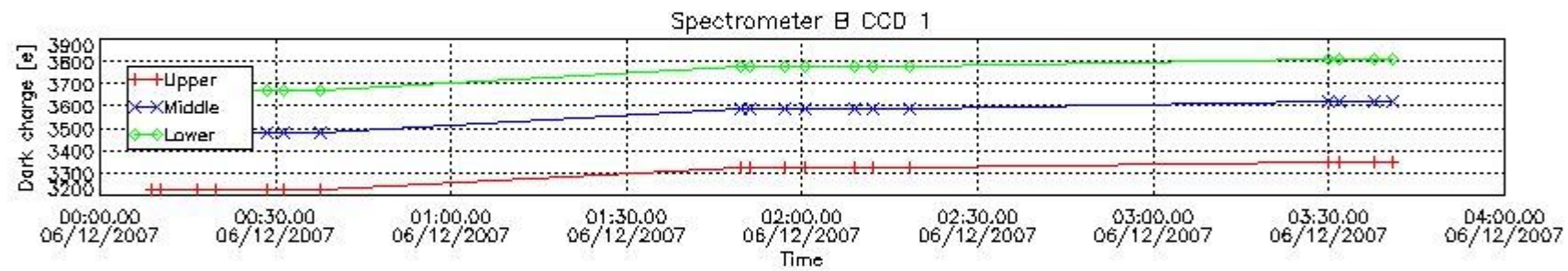
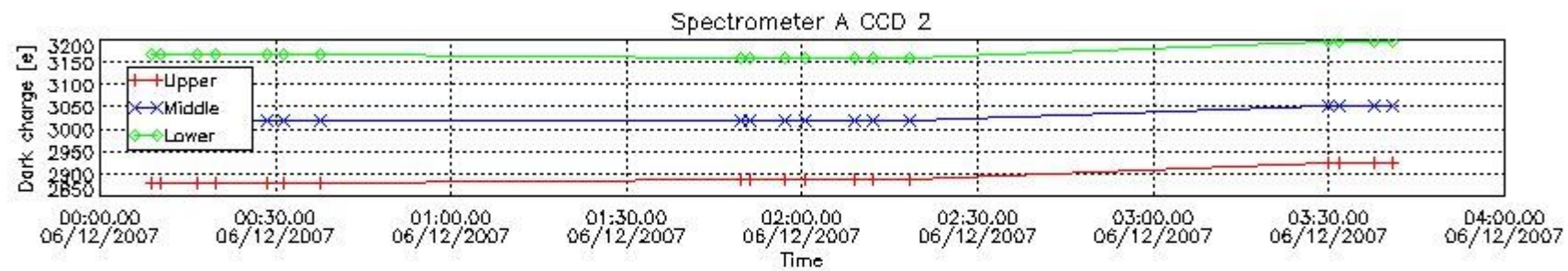
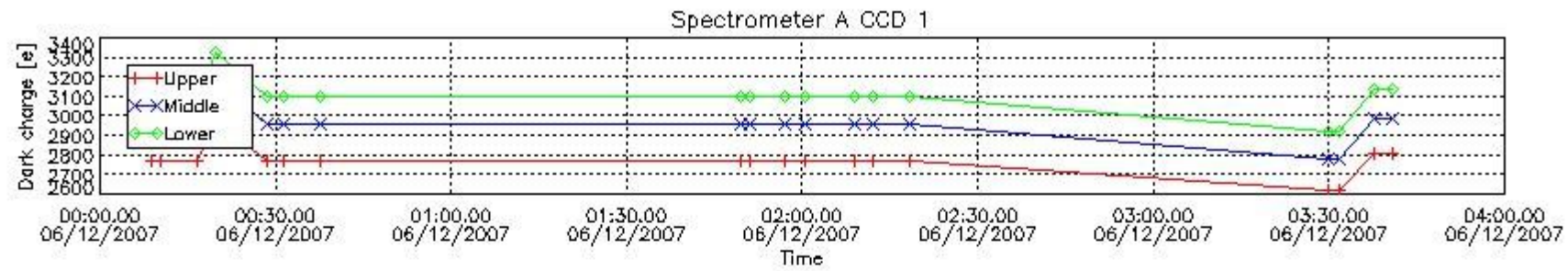
4. Overview of dark signal processing per product

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



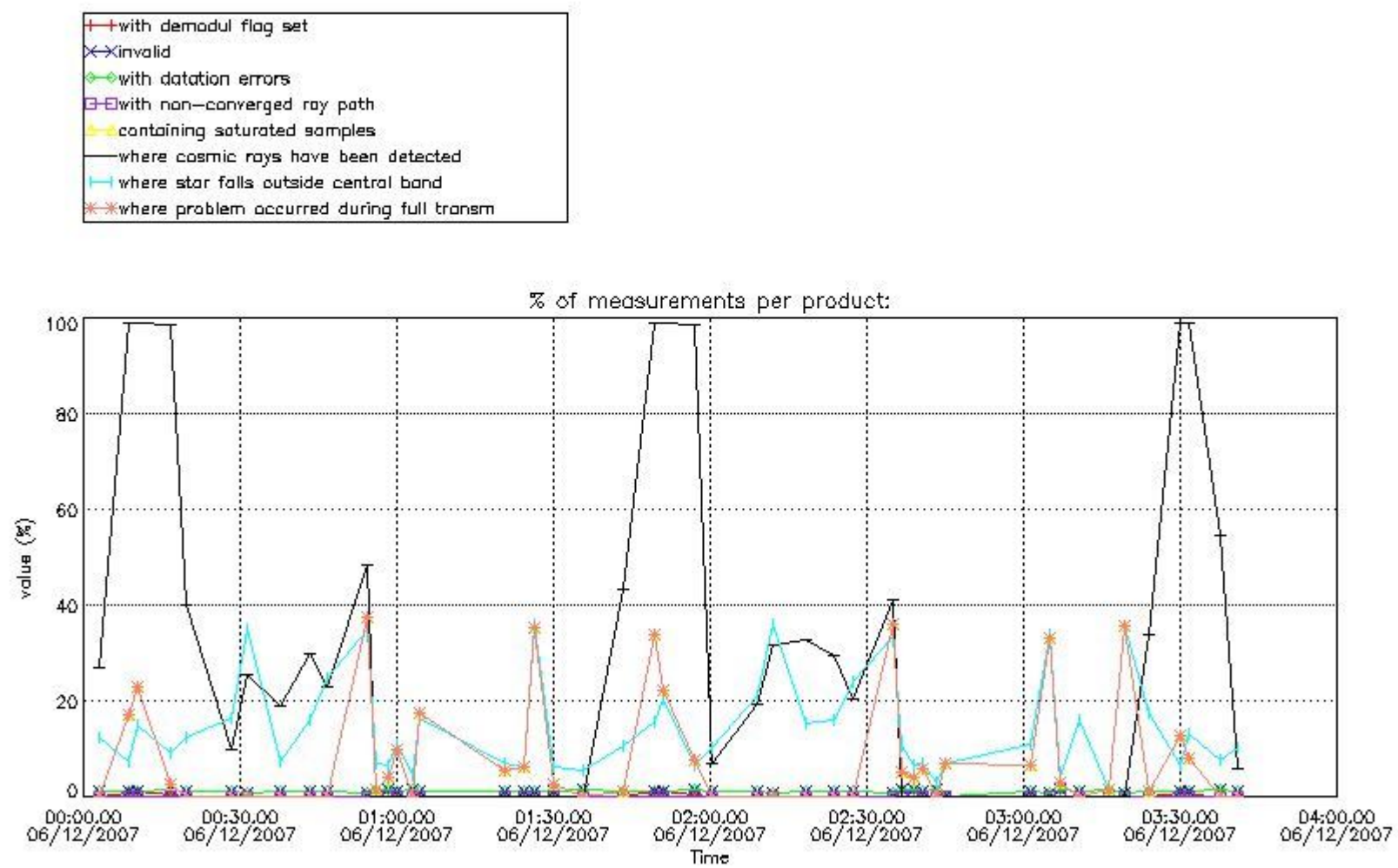
5. Demodulation flag and quality information monitoring

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.

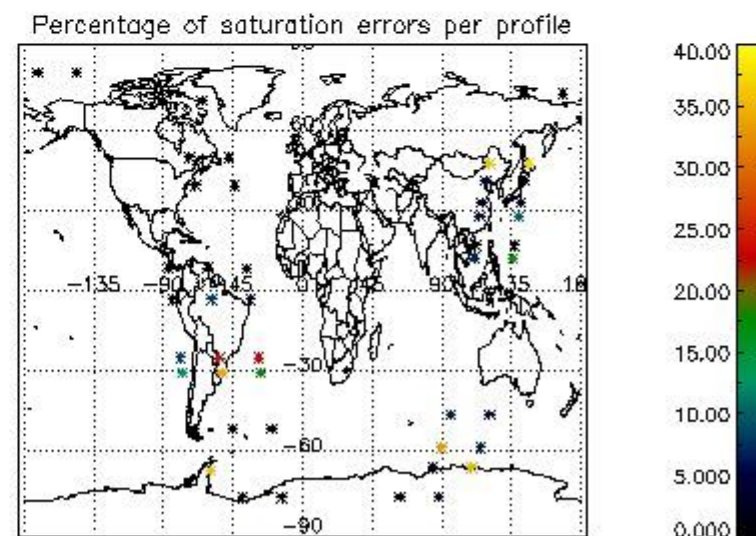
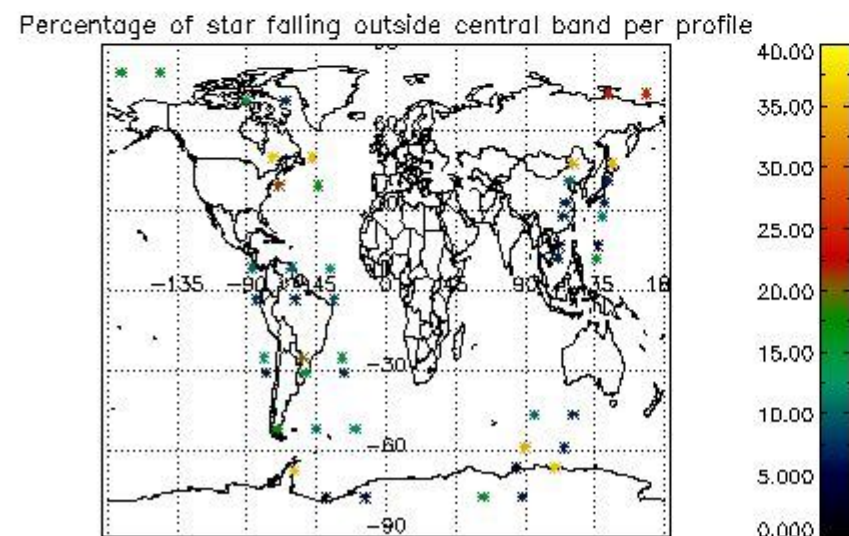
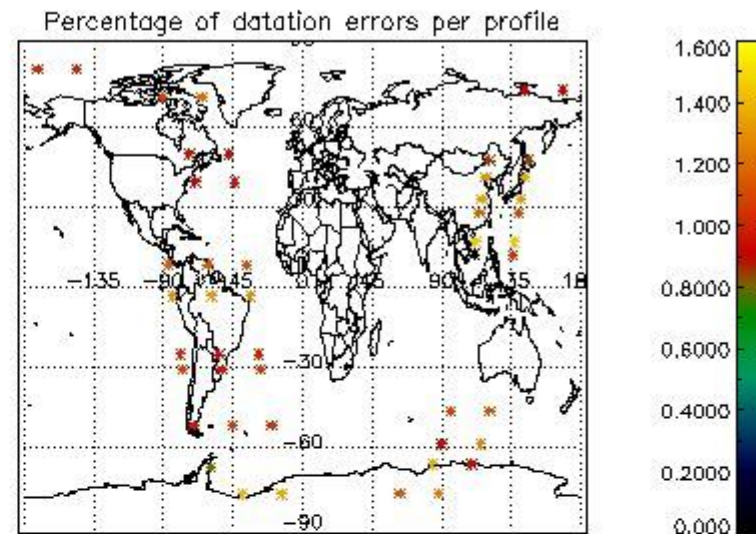
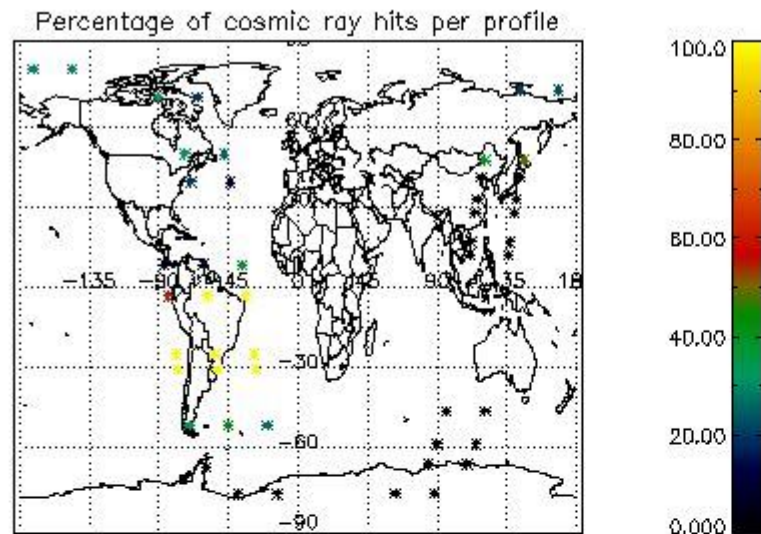
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	25.0000 %
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)



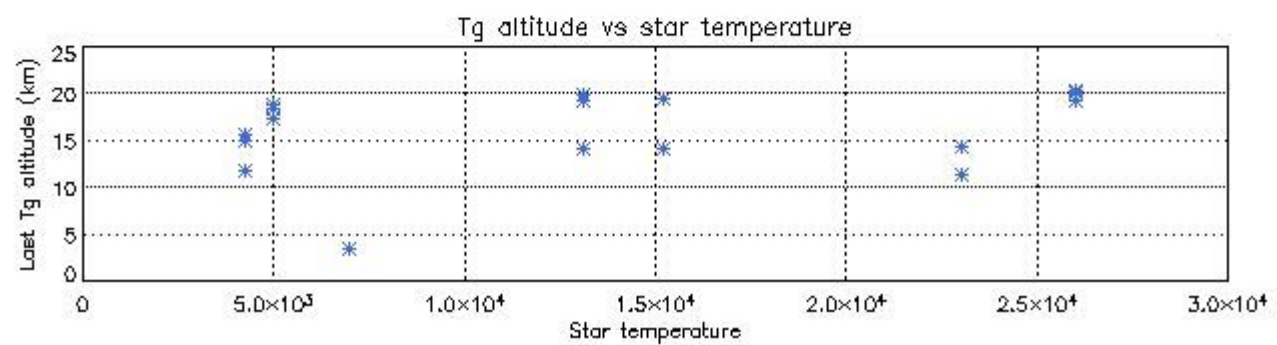
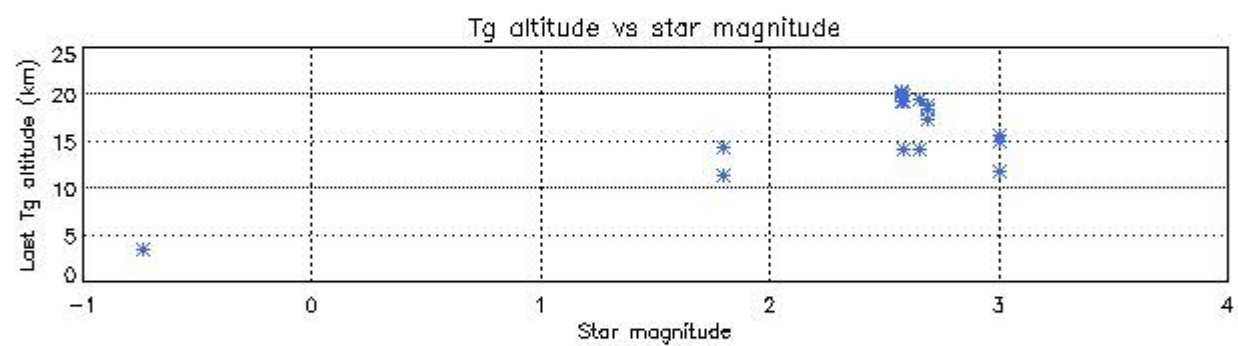
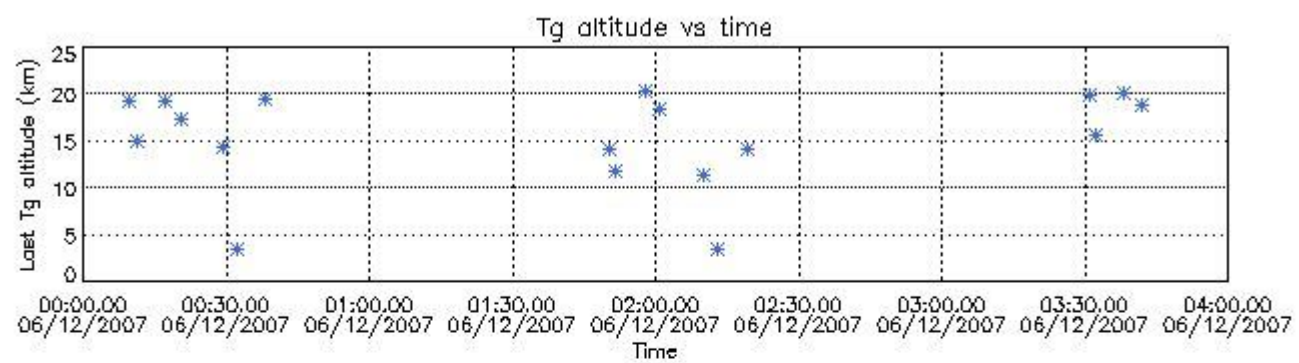
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.293	16.697	NaN
St. deviation:	5.1958	6.8319	NaN
Maximum:	20.266	25.512	NaN
Minimum:	3.3441	3.7735	NaN
Number of data:	18.000	26.000	NaN

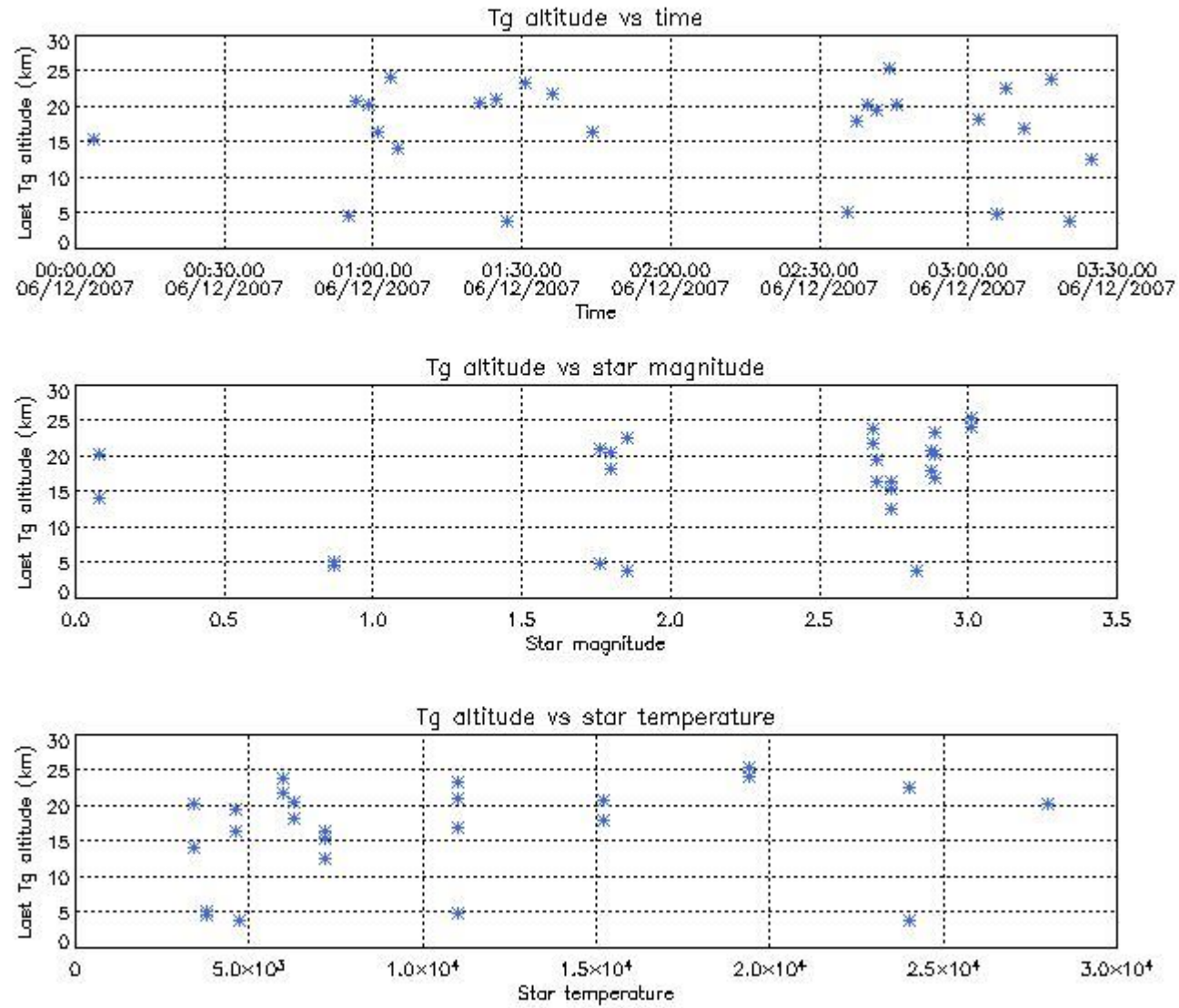
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

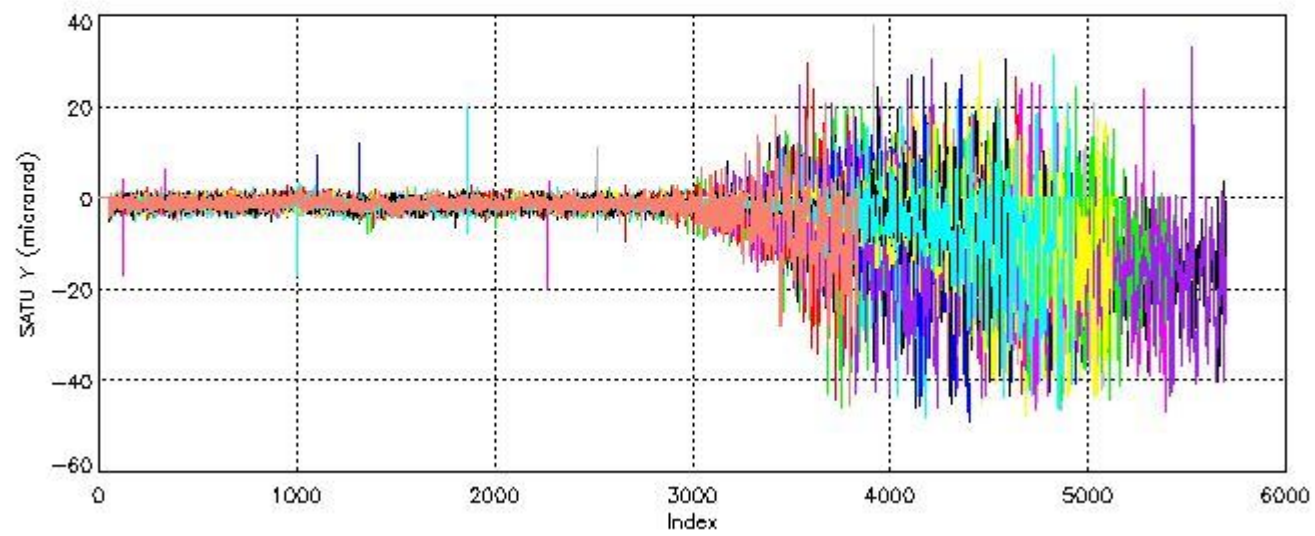
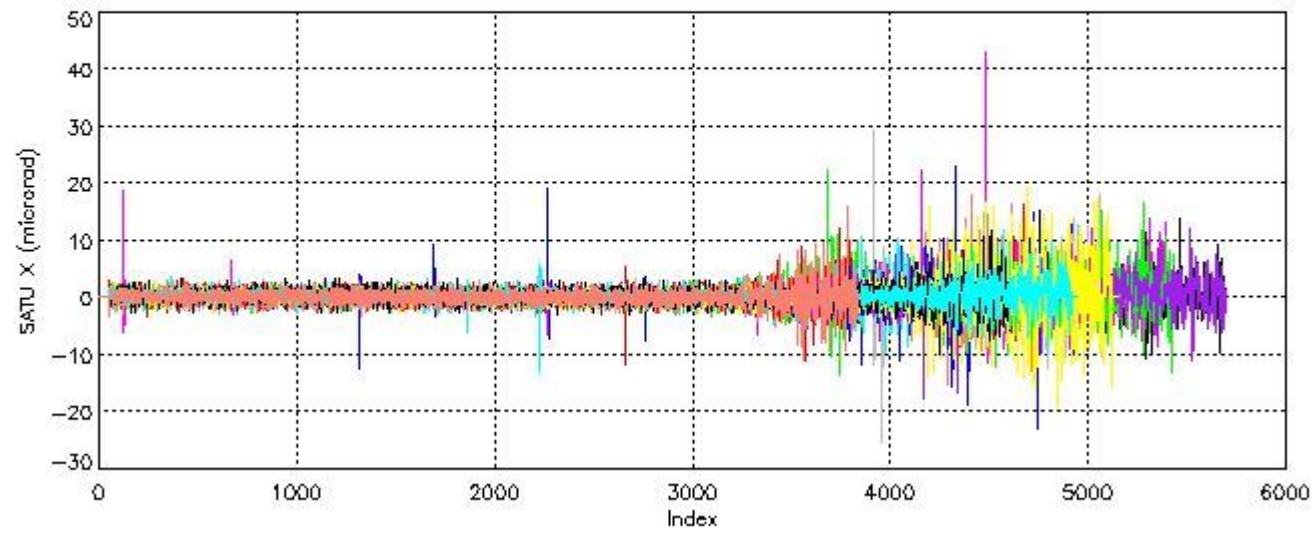


7. Star Acquisition and Tracking Unit (SATU)

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:	0.28039	-1.2415	0.21563	-1.1421
St. deviation:	0.68345	0.86788	0.84328	1.0482
Maximum:	18.600	6.3000	6.7000	4.3000
Minimum:	-6.0000	-17.200	-5.2000	-8.0000

Number of data:	18350.	18350.	24250.	24250.
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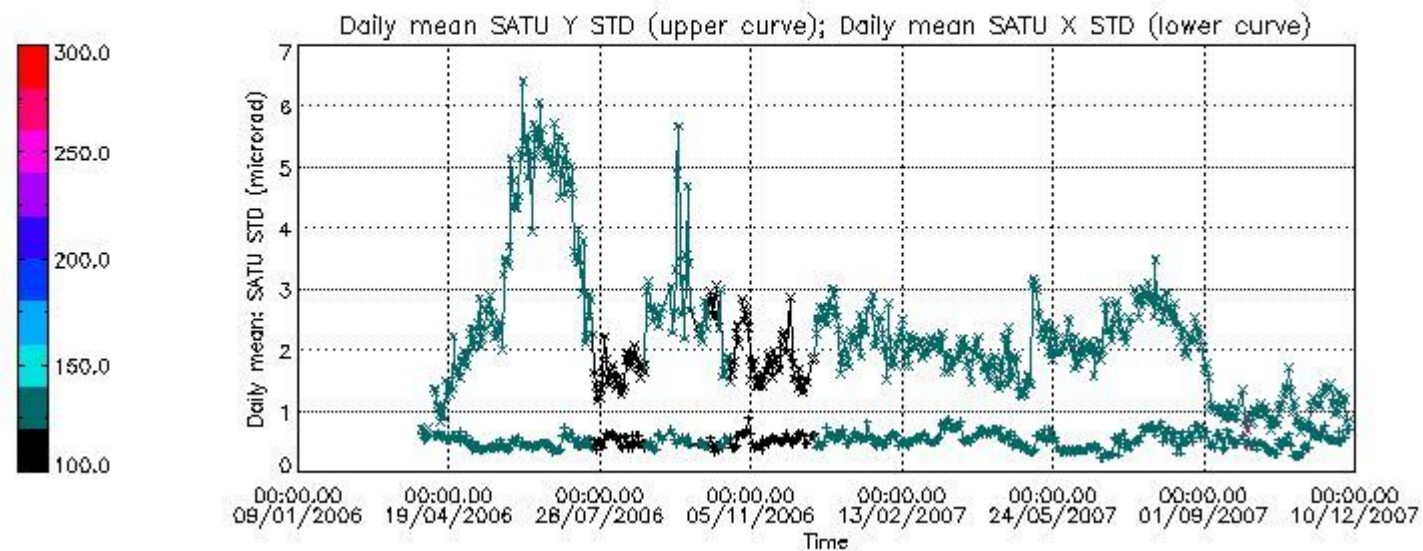
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

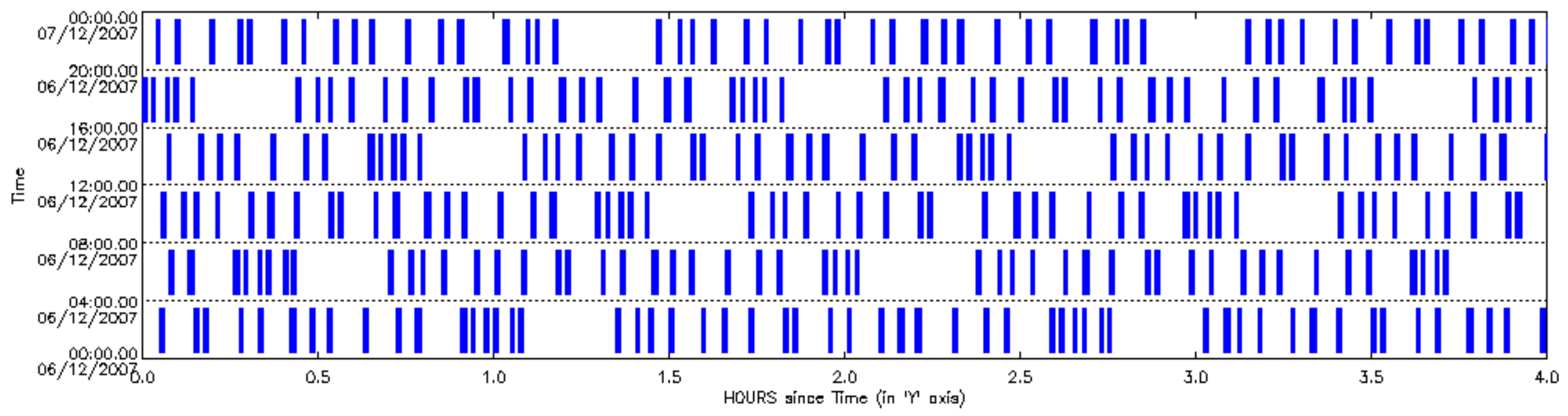
Lower curve: STD of SATU X axis

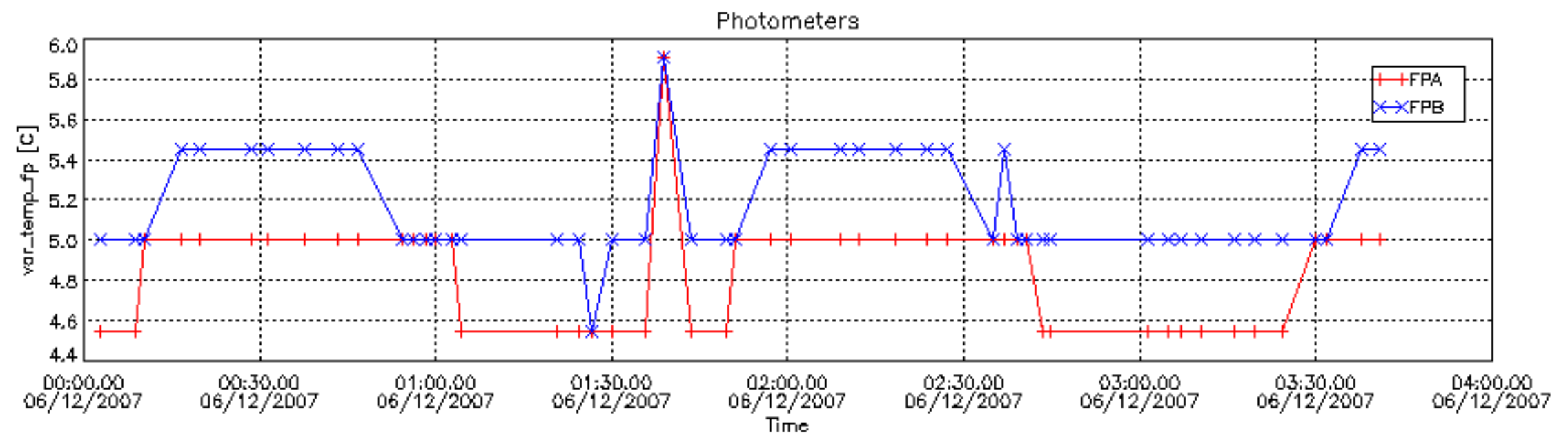
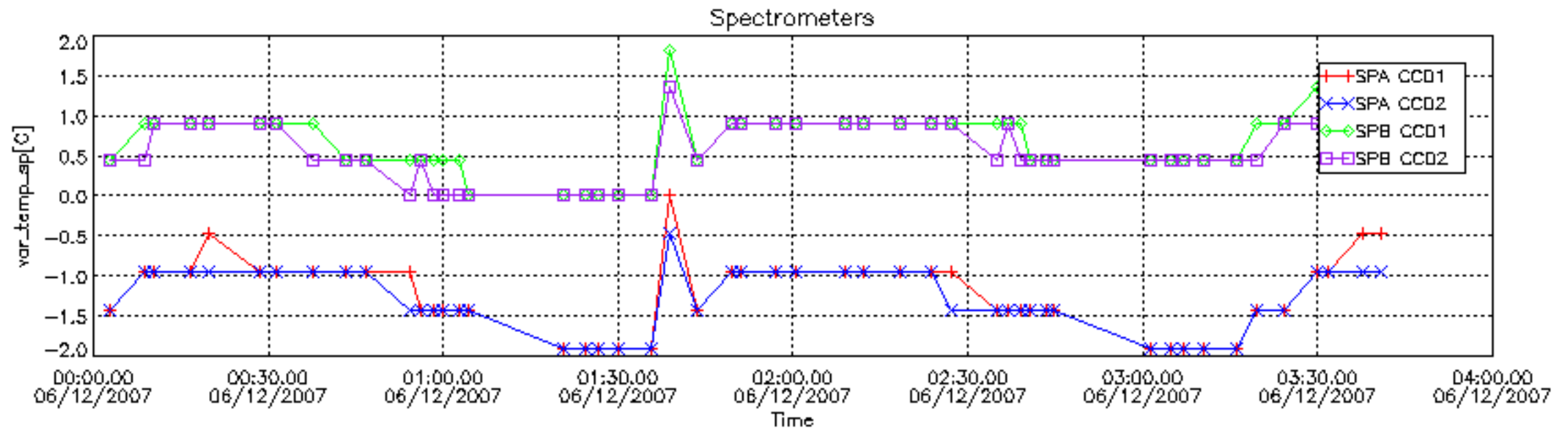


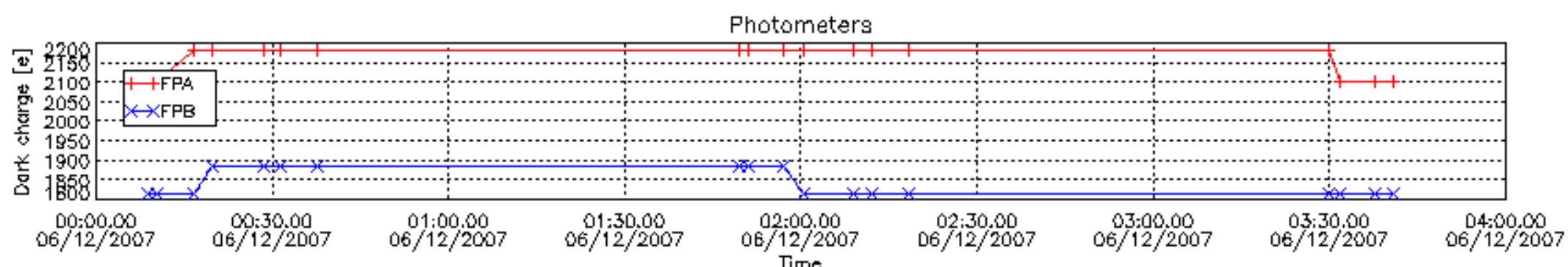
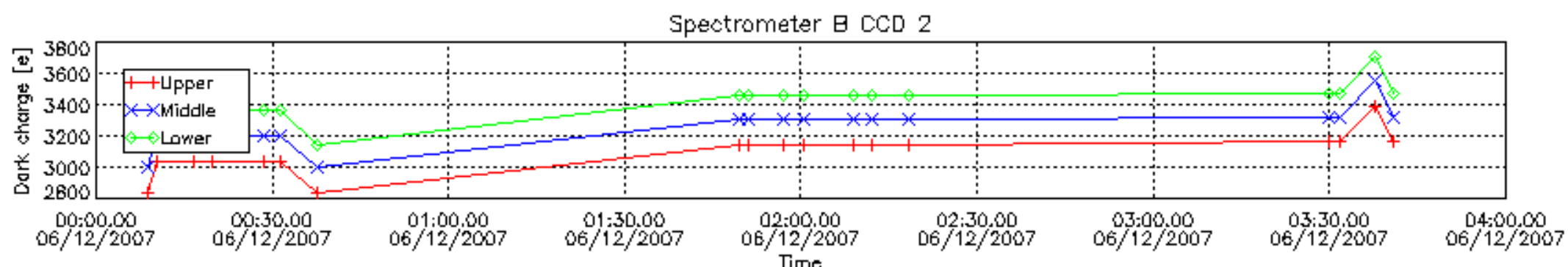
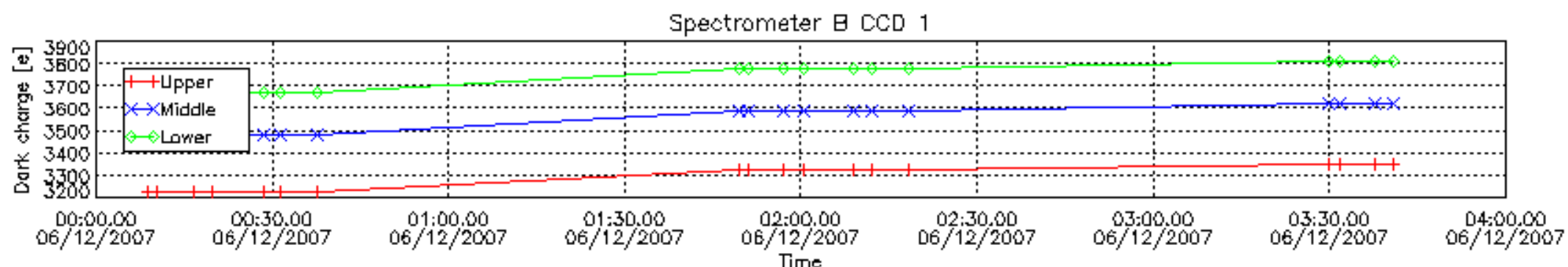
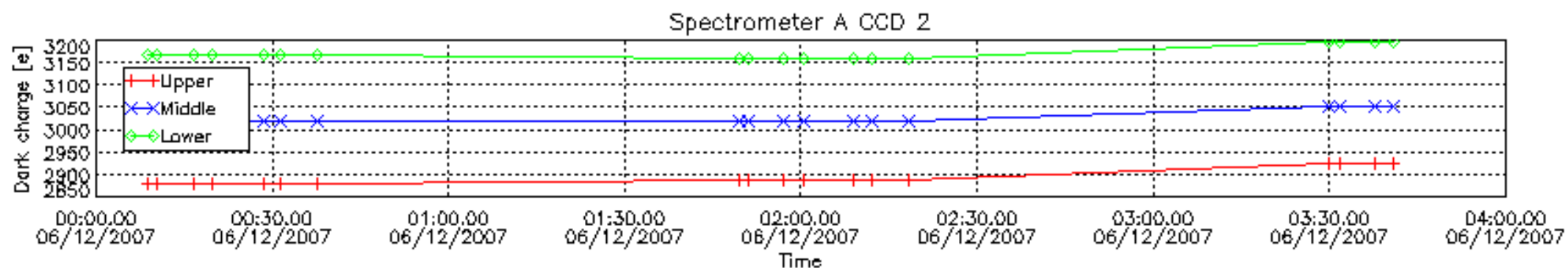
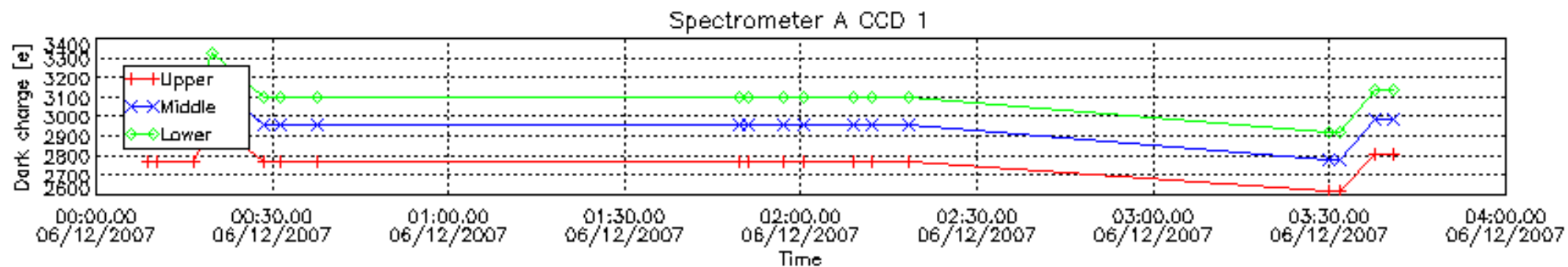
8. Auxiliary Data Files used for the production reported in section 2.4

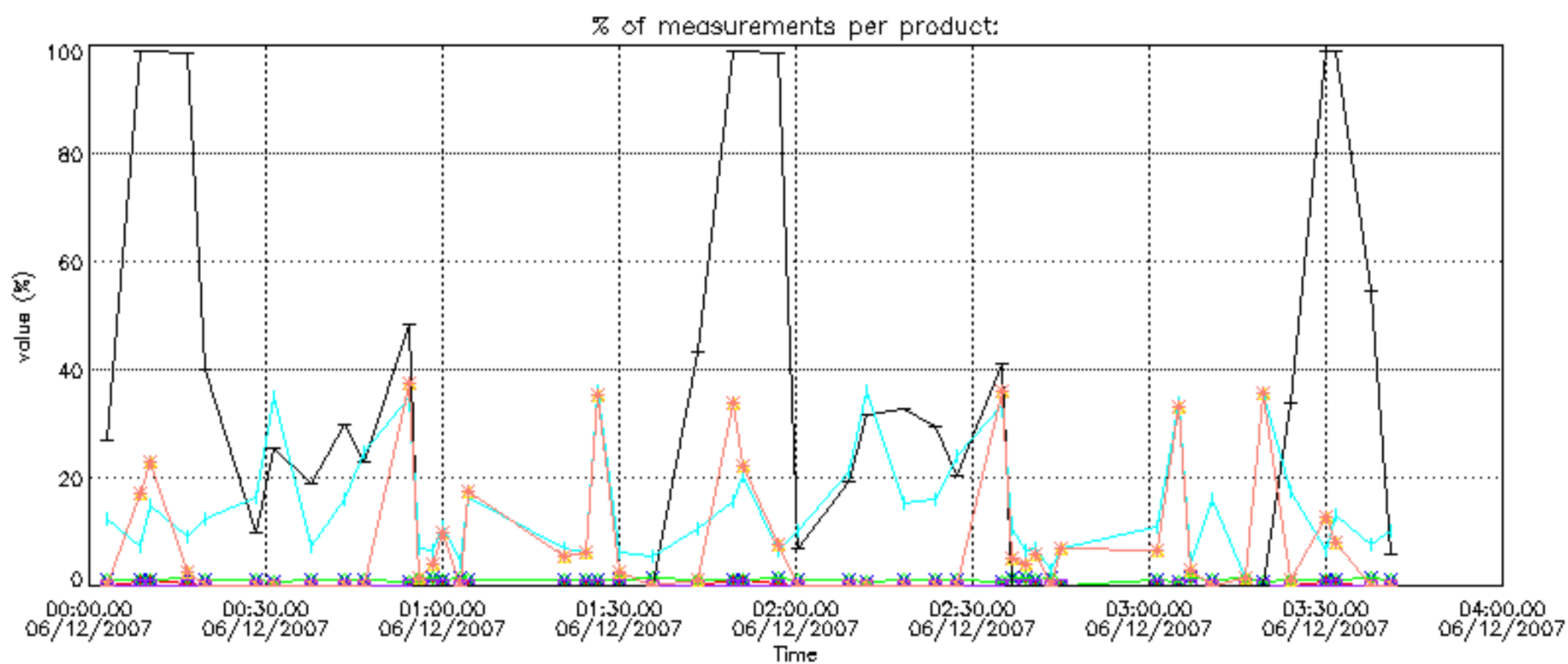
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	06-DEC-2007 00:02:51
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071130_110642_20071128_000000_20100101_000000	1	06-DEC-2007 00:02:51
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	06-DEC-2007 00:02:51
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	06-DEC-2007 00:02:51
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	06-DEC-2007 00:02:51
ECMWF_FILE	AUX_ECF_AXNECM20071205_063112_20071205_210000_20071206_090000	1	06-DEC-2007 00:02:51
ECMWF_FILE	AUX_ECF_AXNECM20071205_180113_20071206_030000_20071206_150000	39	06-DEC-2007 03:01:19
OPTIONAL_ECMWF_FILE	MISSING	1	06-DEC-2007 00:02:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071205_222117_000054192064_00029_30143_4694.N1	1	06-DEC-2007 00:02:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071205_235656_000057382064_00030_30144_4695.N1	22	06-DEC-2007 01:38:53
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071206_013753_000041442064_00031_30145_4696.N1	39	06-DEC-2007 03:01:19

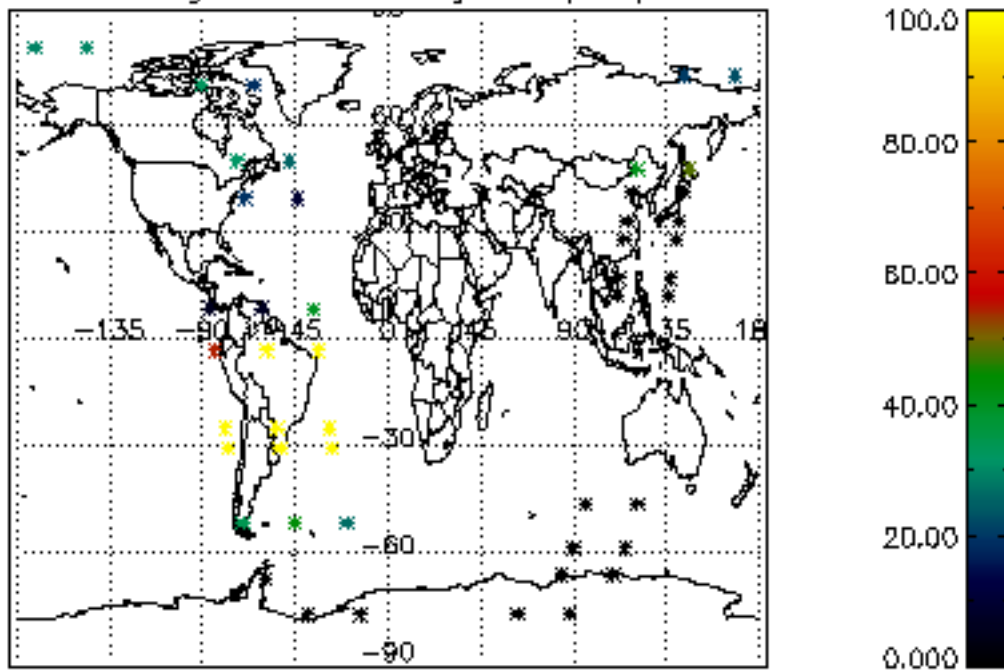




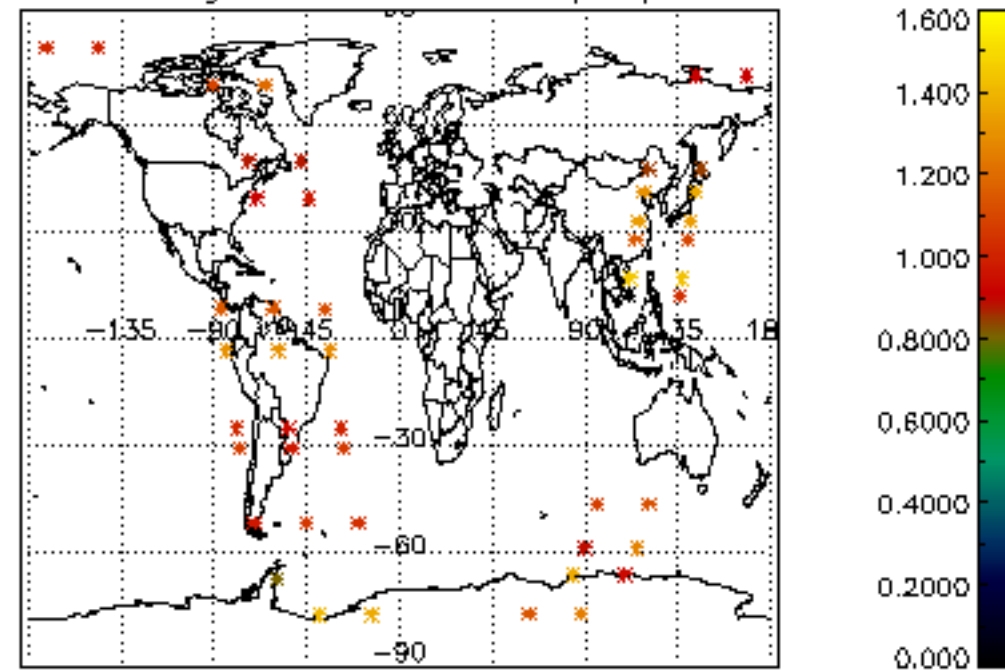




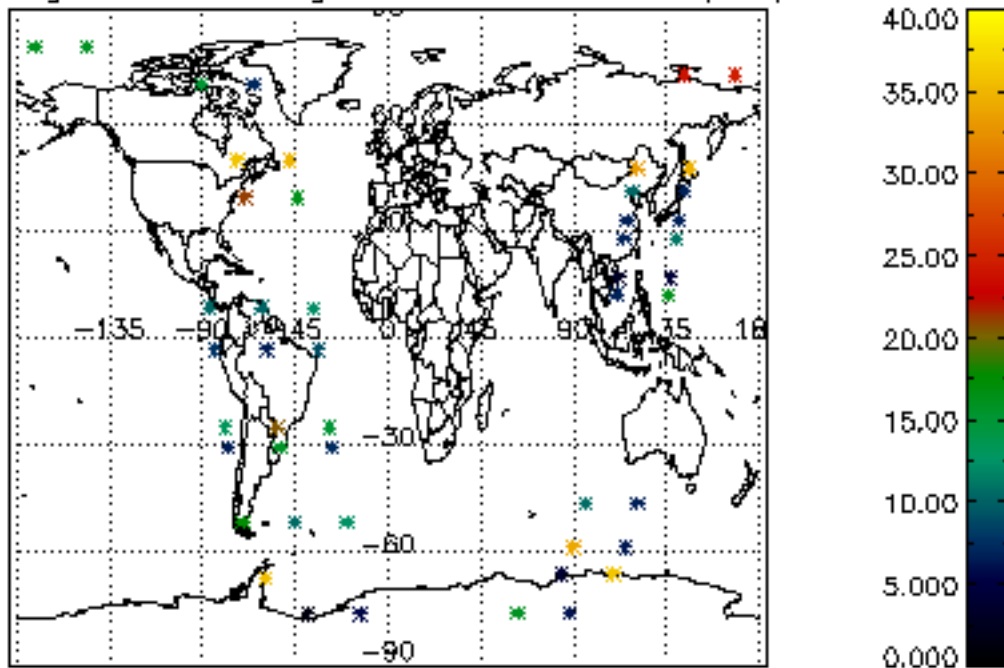
Percentage of cosmic ray hits per profile



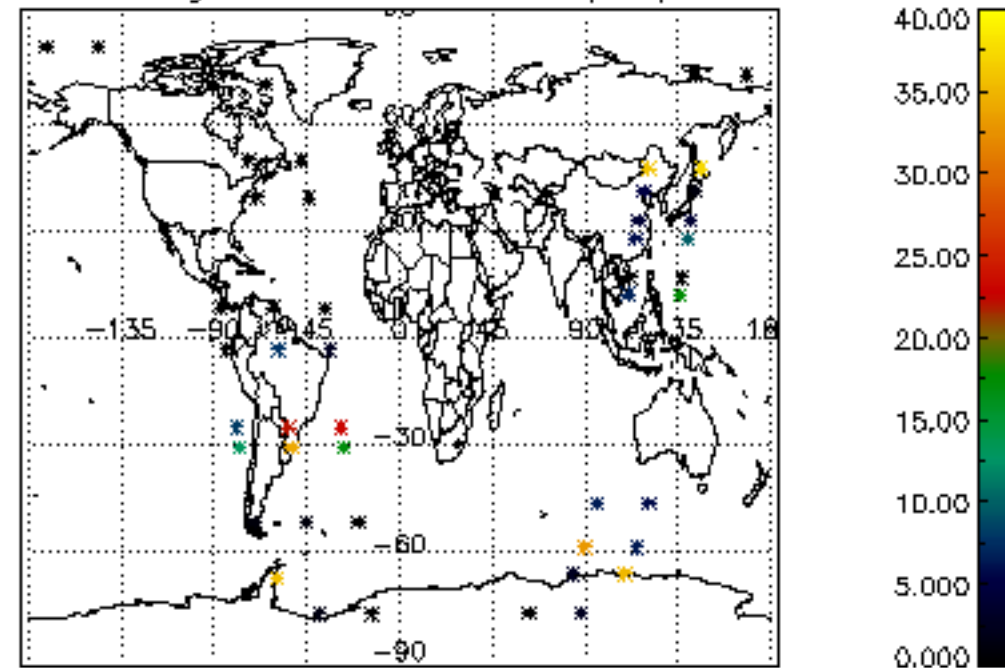
Percentage of datation errors per profile



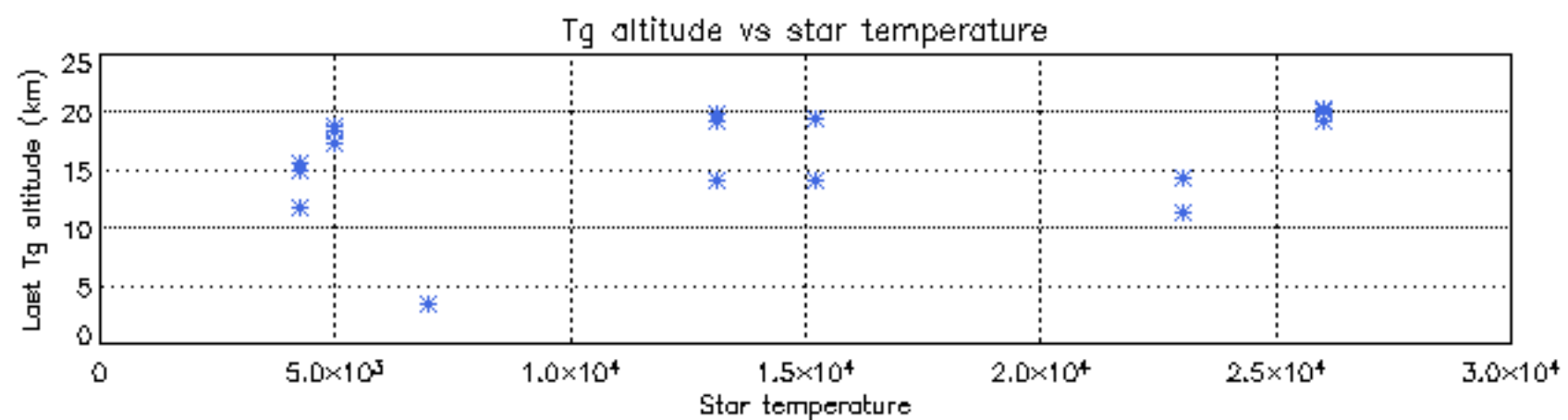
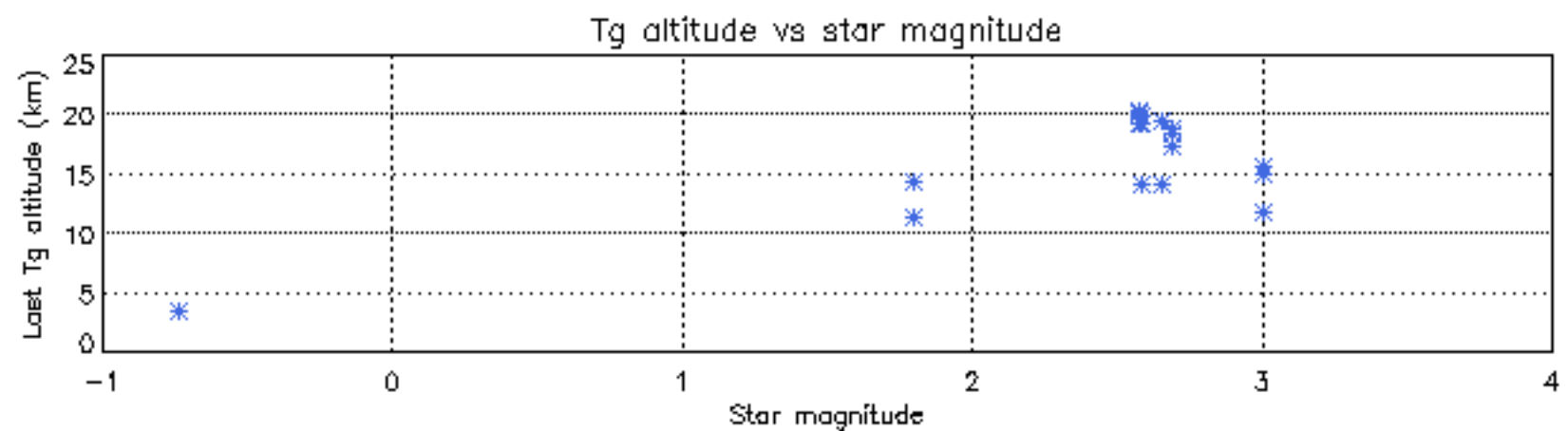
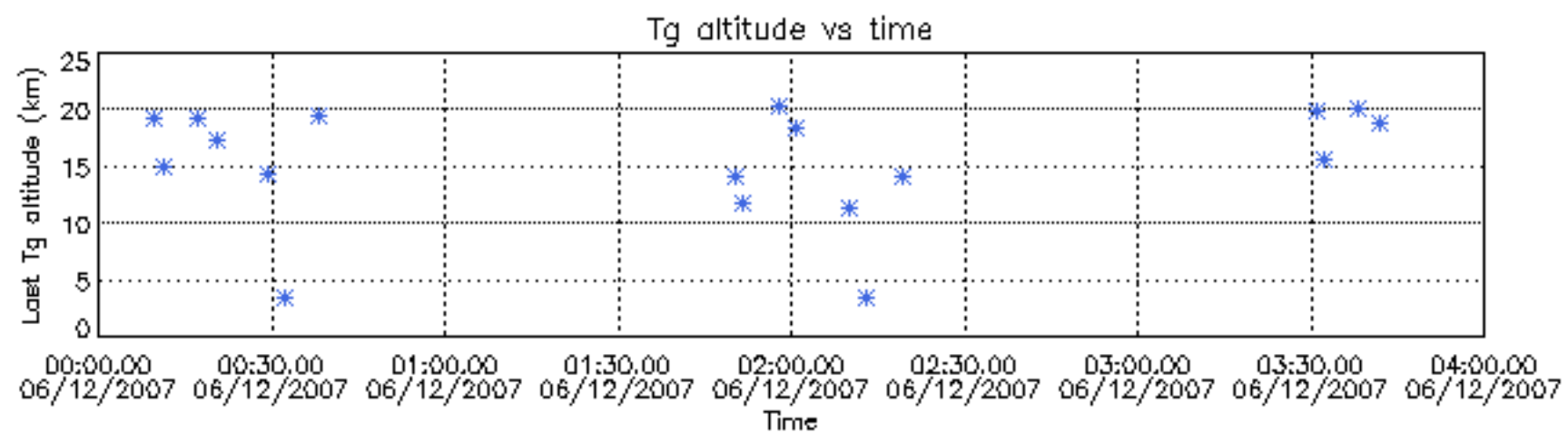
Percentage of star falling outside central band per profile



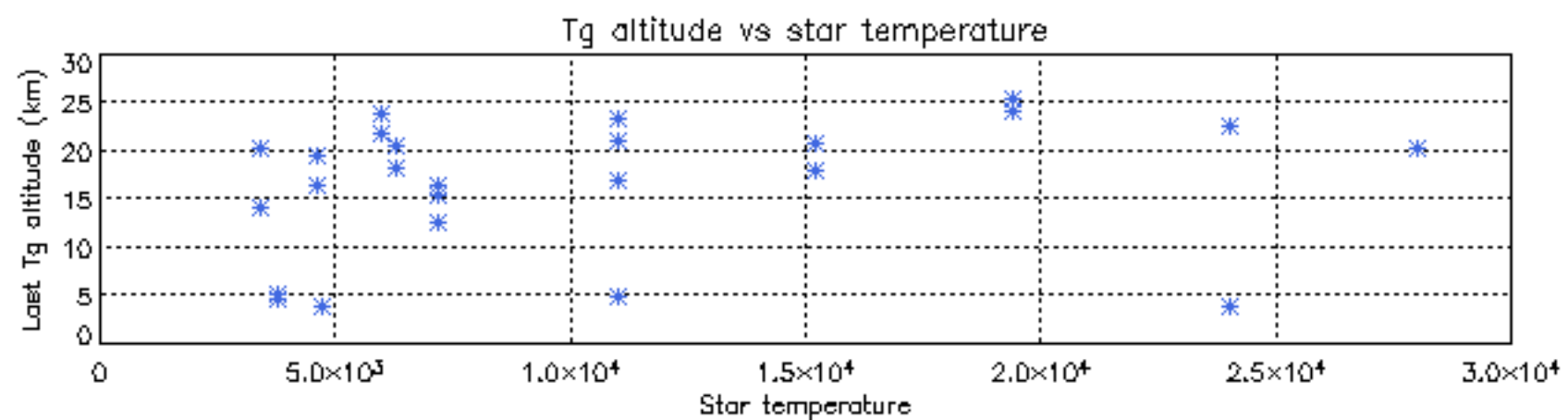
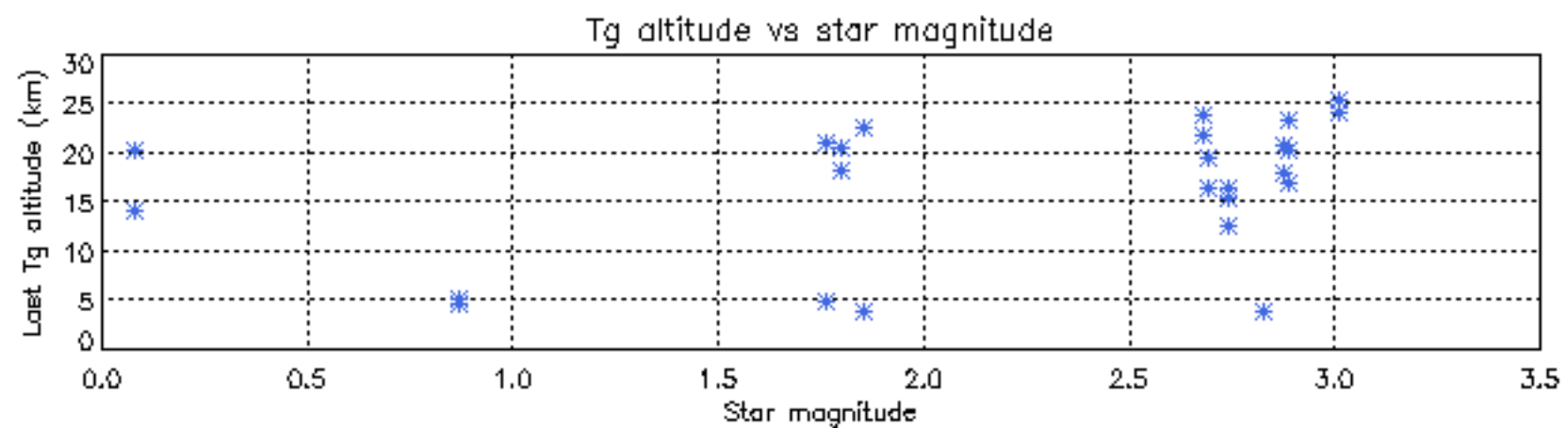
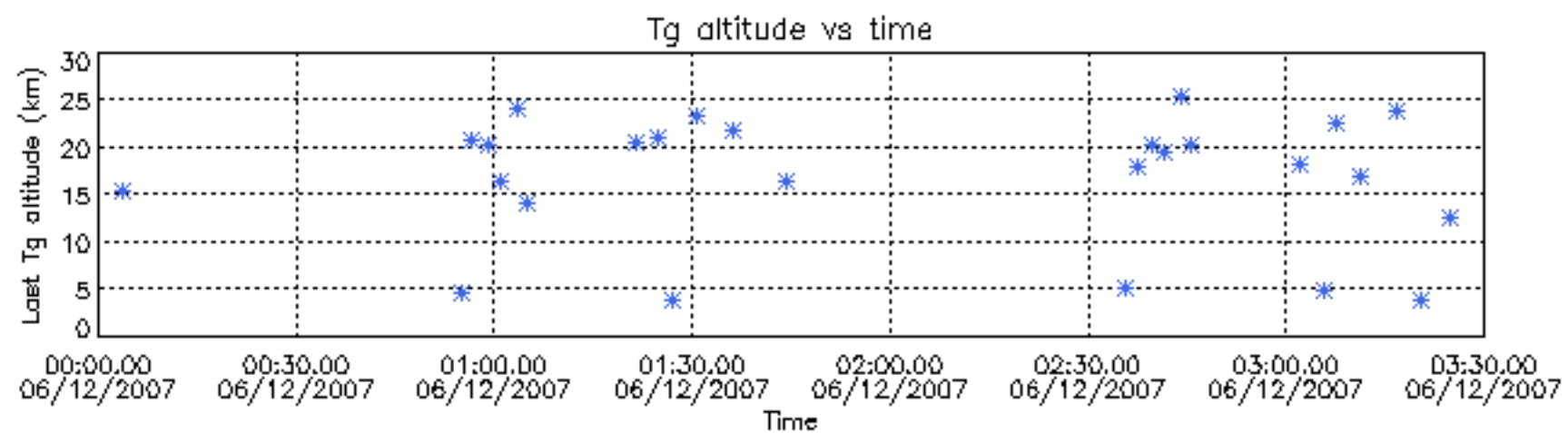
Percentage of saturation errors per profile

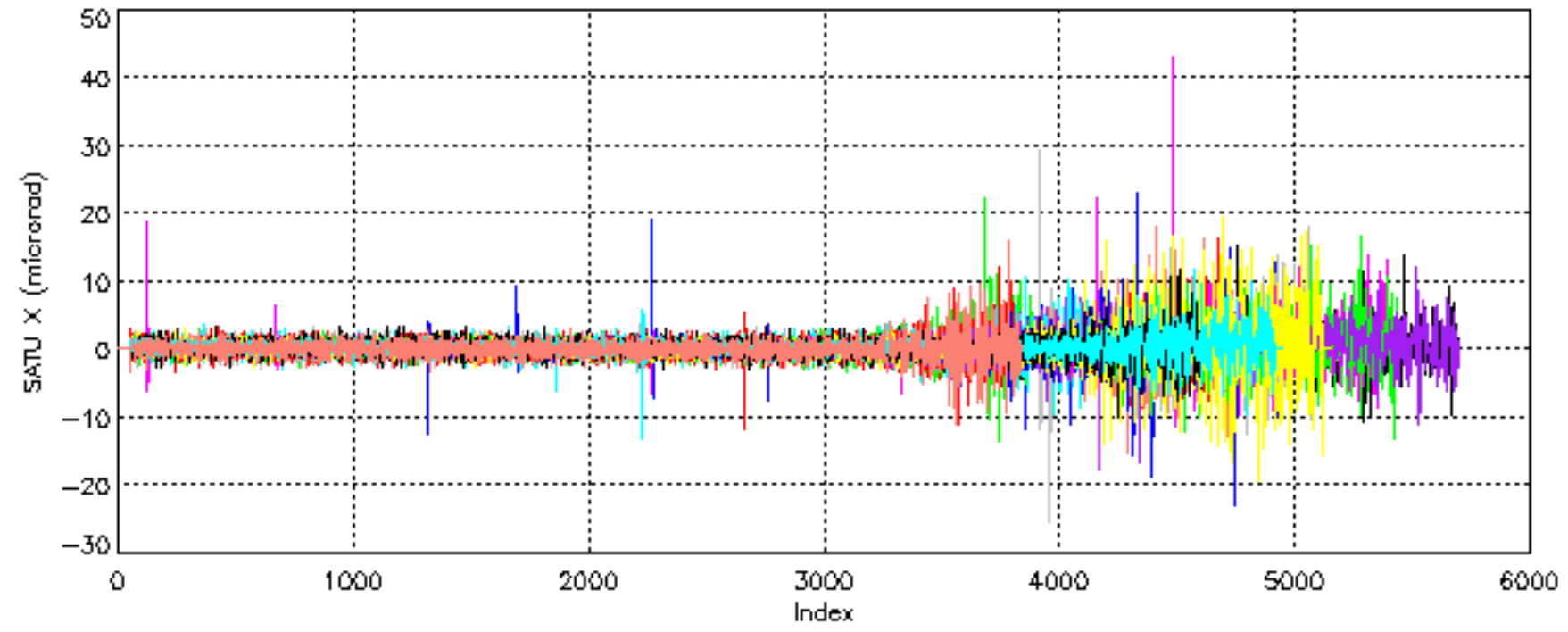


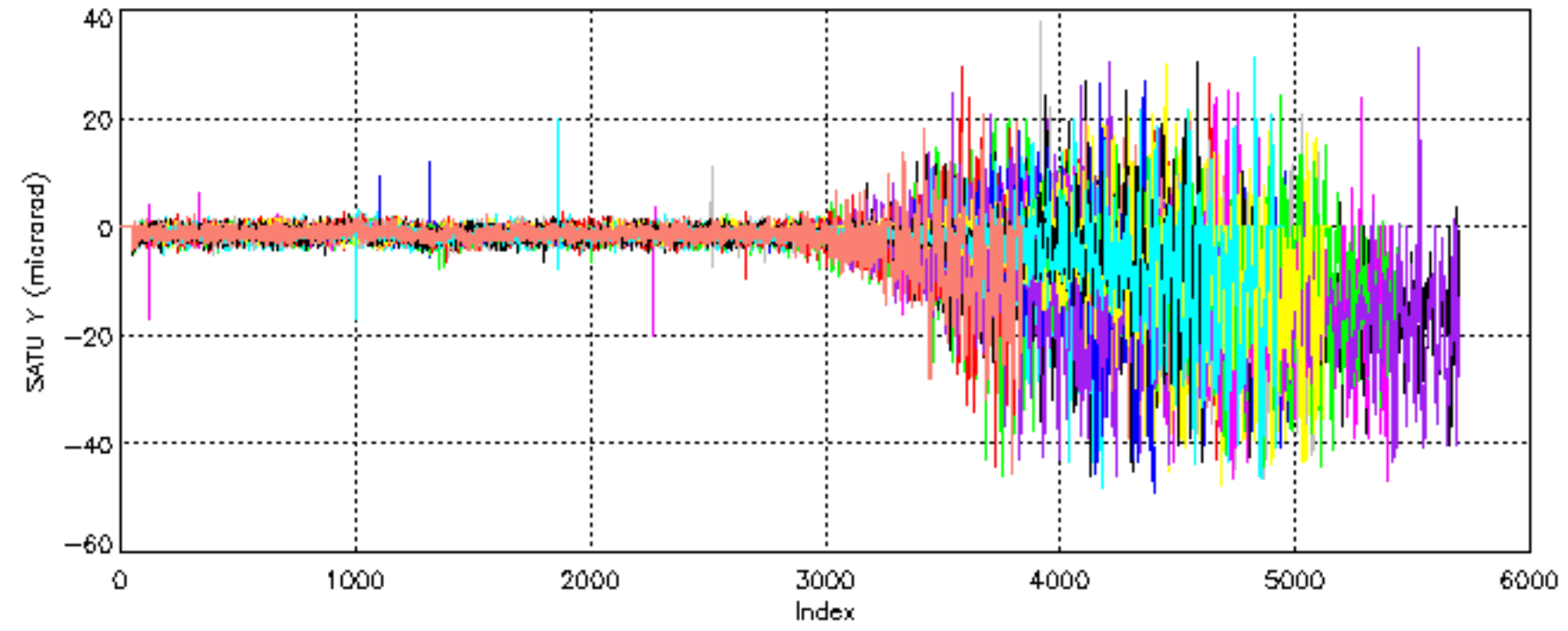
Tangent altitude at which the star is lost

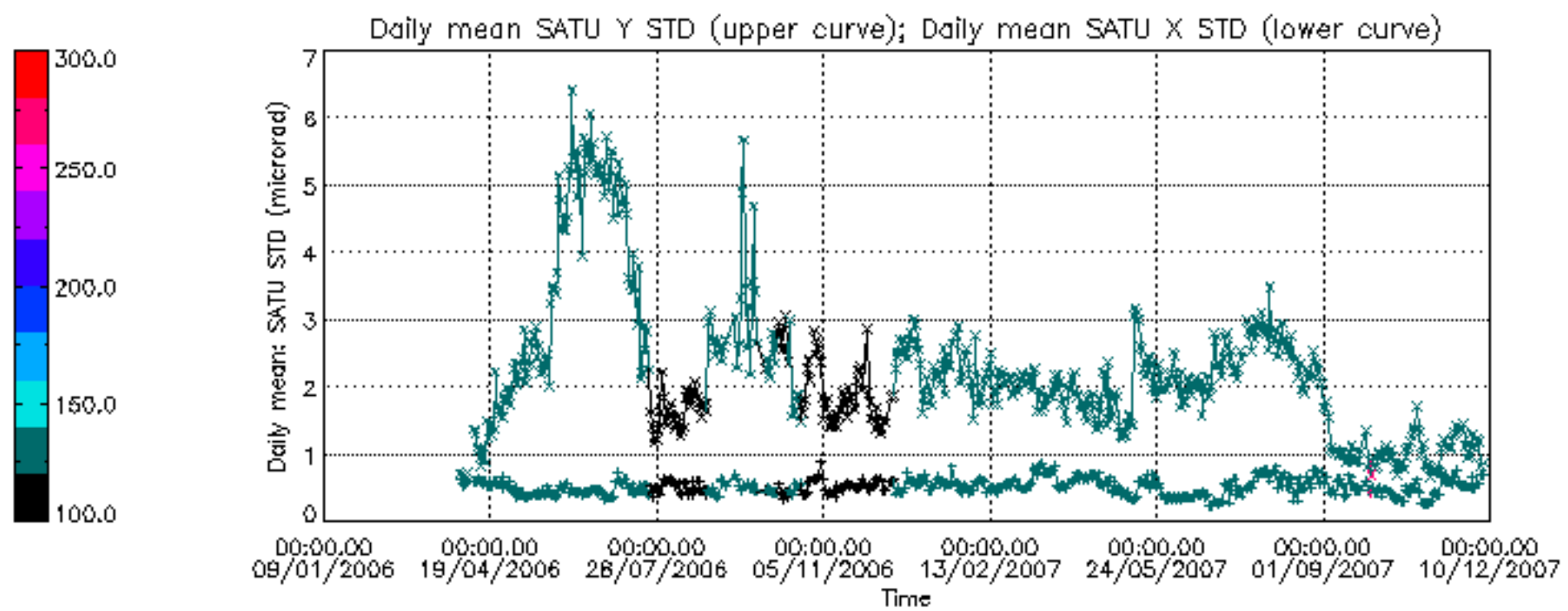


Tangent altitude at which the star is lost









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 3; -537.4; 01-DEC-2007 01:05:58; Dark ; 44.0; 106; 9Bet Crv ; 2.65; 5600;occ; 88; 0;30073
 4; -145.2; 01-DEC-2007 01:12:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30073
 5; -46.6; 01-DEC-2007 01:14:09; Dark ; 53.0; 26; Gam Cru ; 1.62; 2900;occ; 106; 0;30073
 6; 83.1; 01-DEC-2007 01:16:18; Dark ; 43.5; 113; Mu Vel ; 2.69; 5000;occ; 87; 0;30074
 7; 202.5; 01-DEC-2007 01:18:18; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;30074
 8; 369.6; 01-DEC-2007 01:21:05; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;30074
 9; 481.6; 01-DEC-2007 01:22:57; Dark ; 41.5; 41; Eps Car ; 1.86; 4100;occ; 83; 0;30074
 10; 803.9; 01-DEC-2007 01:28:19; Dark ; 47.0; 2; Alp Car ; -0.74; 7000;occ; 94; 0;30074
 11; 1658.7; 01-DEC-2007 01:42:34; Dark ; 44.0; 165; 34Gam Eri ; 2.95; 3200;occ; 88; 0;30074
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 13; 2330.0; 01-DEC-2007 01:53:45; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;30074
 14; 2472.4; 01-DEC-2007 01:56:08; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;30074
 15; 2605.6; 01-DEC-2007 01:58:21; Bright; 34.0; 79; 26Bet Per ; 2.31; 13100;occ; 68; 0;30074
 16; 2739.4; 01-DEC-2007 02:00:35; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;30074
 17; 2818.6; 01-DEC-2007 02:01:54; Bright; 37.5; 160; 23Gam Per ; 2.93; 4700;occ; 75; 0;30074
 18; 3421.9; 01-DEC-2007 02:11:57; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;30074

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 2; -2020.6; 01-DEC-2007 02:21:51; Bright; 36.5; 32; 77Eps UMa ; 1.76; 11000;occ; 73; 0;30074
 3; -1897.1; 01-DEC-2007 02:23:54; Bright; 35.0; 39; 85Eta UMa ; 1.85; 24000;occ; 70; 0;30074
 4; -1723.4; 01-DEC-2007 02:26:48; Bright; 52.0; 180; 27Gam Boo ; 3.04; 8000;occ; 104; 0;30074
 5; -1391.6; 01-DEC-2007 02:32:20; Bright; 34.0; 3; 16Alp Boo ; -0.05; 4250;occ; 68; 0;30074
 6; -1178.1; 01-DEC-2007 02:35:53; Bright; 39.5; 138; 47Eps Vir ; 2.83; 4700;occ; 79; 0;30074
 7; -830.9; 01-DEC-2007 02:41:40; Bright; 39.5; 15; 67Alp Vir ; 0.98; 28000;occ; 79; 0;30074
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 13; 83.9; 01-DEC-2007 02:56:55; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;30075
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 15; 370.0; 01-DEC-2007 03:01:41; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30075
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 18; 1658.9; 01-DEC-2007 03:23:10; Dark ; 42.0; 165; 34Gam Eri ; 2.95; 3200;occ; 84; 0;30075
 19; 1980.5; 01-DEC-2007 03:28:32; Dark ; 42.5; 94; 92Alp Cet ; 2.53; 3100;occ; 85; 0;30075
 20; 2329.8; 01-DEC-2007 03:34:21; Bright; 39.0; 146; 25Eta Tau ; 2.87; 15200;occ; 78; 0;30075
 21; 2472.2; 01-DEC-2007 03:36:43; Bright; 37.5; 150; 44Zet Per ; 2.89; 28000;occ; 75; 0;30075
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 23; 2739.4; 01-DEC-2007 03:41:10; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0;30075
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 5; -1391.4; 01-DEC-2007 04:12:56; Bright; 34.0; 3; 16Alp Boo ; -0.05; 4250;occ; 68; 0;30075
 6; -1177.6; 01-DEC-2007 04:16:30; Bright; 38.5; 138; 47Eps Vir ; 2.83; 4700;occ; 77; 0;30075
 7; -830.6; 01-DEC-2007 04:22:17; Bright; 37.5; 15; 67Alp Vir ; 0.98; 28000;occ; 75; 0;30075
 8; -633.9; 01-DEC-2007 04:25:33; Dark ; 42.0; 163; 7Del Crv ; 2.94; 11000;occ; 84; 0;30075
 9; -536.2; 01-DEC-2007 04:27:11; Dark ; 41.5; 106; 9Bet Crv ; 2.65; 5600;occ; 83; 0;30075
 10; -415.3; 01-DEC-2007 04:29:12; Dark ; 38.5; 123; Iot Cen ; 2.75; 10200;occ; 77; 0;30075
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 12; -45.9; 01-DEC-2007 04:35:21; Dark ; 53.0; 26; Gam Cru ; 1.62; 2900;occ; 106; 0;30075
 13; 84.5; 01-DEC-2007 04:37:32; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;30076
 14; 203.3; 01-DEC-2007 04:39:30; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;30076
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24; 2818.7; 01-DEC-2007 05:23:06; Bright; 34.5; 160; 23Gam Per ; 2.93; 4700;occ; 69; 0;30076
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26; 3701.8; 01-DEC-2007 05:37:49; Bright; 9.0; 60; 7Bet UMi ; 2.08; 3950;occ; 18; 0;30076
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 3;-1897.3; 01-DEC-2007 05:45:06; Bright; 35.5; 39; 85Eta UMa ; 1.85; 24000;occ; 71; 0;30076
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13; 85.3; 01-DEC-2007 06:18:08; Dark ; 42.5; 113; Mu Vel ; 2.69; 5000;occ; 85; 0;30077
14; 203.7; 01-DEC-2007 06:20:07; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;30077
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16; 483.5; 01-DEC-2007 06:24:47; Dark ; 40.0; 41; Eps Car ; 1.86; 4100;occ; 80; 0;30077
17; 805.4; 01-DEC-2007 06:30:09; Dark ; 58.0; 2; Alp Car ; -0.74; 7000;occ; 116; 0;30077
18; 1659.1; 01-DEC-2007 06:44:22; Dark ; 40.5; 165; 34Gam Eri ; 2.95; 3200;occ; 81; 0;30077
19; 1980.7; 01-DEC-2007 06:49:44; Dark ; 43.0; 94; 92Alp Cet ; 2.53; 3100;occ; 86; 0;30077
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21; 2471.7; 01-DEC-2007 06:57:55; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;30077
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23; 2738.8; 01-DEC-2007 07:02:22; Bright; 35.5; 175; 39Del Per ; 3.01; 19400;occ; 71; 0;30077
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 5; 2230.8; 01-DEC-2007 20:18:41; Bright; 49.5; 13; 87Alp Tau ; 0.87; 3800;occ; 99; 0;30085
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 6;-1177.0; 01-DEC-2007 07:37:42; Bright; 39.0; 138; 47Eps Vir ; 2.83; 4700;occ; 78; 0;30077
 7; -829.8; 01-DEC-2007 07:43:29; Bright; 54.0; 15; 67Alp Vir ; 0.98; 28000;occ; 108; 0;30077
 8; -632.7; 01-DEC-2007 07:46:46; Dark ; 43.5; 163; 7Del Crv ; 2.94; 11000;occ; 87; 0;30077
 9; -534.8; 01-DEC-2007 07:48:24; Dark ; 46.0; 106; 9Bet Crv ; 2.65; 5600;occ; 92; 0;30077
10; -414.6; 01-DEC-2007 07:50:24; Dark ; 37.5; 123; Iot Cen ; 2.75; 10200;occ; 75; 0;30077
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13; 86.1; 01-DEC-2007 07:58:45; Dark ; 43.5; 113; Mu Vel ; 2.69; 5000;occ; 87; 0;30078
14; 204.2; 01-DEC-2007 08:00:43; Dark ; 37.0; 124; The Car ; 2.76; 30000;occ; 74; 0;30078
15; 371.3; 01-DEC-2007 08:03:30; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;30078
16; 484.1; 01-DEC-2007 08:05:23; Dark ; 44.0; 41; Eps Car ; 1.86; 4100;occ; 88; 0;30078
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 5; 2197.6; 11-DEC-2007 18:23:11; Dark ; 53.5; 13; 87Alp Tau ; 0.87; 3800;occ; 107; 0;30227
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 9; 3705.5; 11-DEC-2007 18:48:18; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;30227
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 11; 4140.2; 11-DEC-2007 18:55:33; Bright; 39.0; 39; 85Eta UMa ; 1.85; 24000;occ; 78; 0;30227
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 13; 4519.1; 11-DEC-2007 19:01:52; Bright; 36.0; 83; ; 2.38; 11000;occ; 72; 0;30227
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 16; 5490.2; 11-DEC-2007 19:18:03; Dark ; 42.5; 169; 46Gam Hya ; 2.99; 4700;occ; 85; 0;30227
 17; 5618.9; 11-DEC-2007 19:20:12; Dark ; 52.5; 106; 9Bet Crv ; 2.65; 5600;occ; 105; 0;30227
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8; 530.7; 12-DEC-2007 02:18:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30232
9; 730.4; 12-DEC-2007 02:21:43; Dark ; 52.0; 34; Gam2Vel ; 1.79; 23000;occ; 104; 0;30232
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 9; 3422.3; 15-DEC-2007 14:56:31; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;30282
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 16; 5631.1; 15-DEC-2007 15:33:20; Dark ; 48.5; 54; 5The Cen ; 2.06; 4500;occ; 97; 0;30282
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 22; 6445.6; 15-DEC-2007 15:46:55; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;30282
 23; 6525.4; 15-DEC-2007 15:48:15; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30282
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 5; 2320.6; 15-DEC-2007 16:18:46; Bright; 34.5; 146; 25Eta Tau ; 2.87; 15200;occ; 69; 0;30283
 6; 2450.8; 15-DEC-2007 16:20:56; Bright; 36.5; 150; 44Zet Per ; 2.89; 28000;occ; 73; 0;30283
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 15; 4726.9; 15-DEC-2007 16:58:52; Bright; 39.5; 111; 8Eta Boo ; 2.68; 6000;occ; 79; 0;30283
 16; 5528.4; 15-DEC-2007 17:12:14; Dark ; 47.0; 169; 46Gam Hya ; 2.99; 4700;occ; 94; 0;30283
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 22; 6341.7; 15-DEC-2007 17:25:47; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;30283
 23; 6446.3; 15-DEC-2007 17:27:31; Dark ; 39.0; 159; Ups Car ; 2.92; 7200;occ; 78; 0;30283
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 5; 2320.7; 15-DEC-2007 17:59:22; Bright; 35.0; 146; 25Eta Tau ; 2.87; 15200;occ; 70; 0;30284
 6; 2450.7; 15-DEC-2007 18:01:32; Bright; 35.0; 150; 44Zet Per ; 2.89; 28000;occ; 70; 0;30284
 7; 2588.6; 15-DEC-2007 18:03:50; Bright; 35.5; 149; 45Eps Per ; 2.89; 30000;occ; 71; 0;30284
 8; 2719.8; 15-DEC-2007 18:06:01; Bright; 33.5; 175; 39Del Per ; 3.01; 19400;occ; 67; 0;30284
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 13; 4337.1; 15-DEC-2007 18:32:58; Bright; 54.0; 180; 27Gam Boo ; 3.04; 8000;occ; 108; 0;30284

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 15; 4727.1; 15-DEC-2007 18:39:28; Bright; 38.5; 111; 8Eta Boo ; 2.68; 6000;occ; 77; 0;30284
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 23; 6446.7; 15-DEC-2007 19:08:08; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;30284
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 4; 2191.3; 15-DEC-2007 19:37:49; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;30285
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 15; 4727.4; 15-DEC-2007 20:20:05; Bright; 40.0; 111; 8Eta Boo ; 2.68; 6000;occ; 80; 0;30285
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 22; 6342.4; 15-DEC-2007 20:47:00; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;30285
 23; 6447.2; 15-DEC-2007 20:48:44; Dark ; 39.0; 159; Ups Car ; 2.92; 7200;occ; 78; 0;30285
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 26; 6937.0; 15-DEC-2007 20:56:54; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;30285

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 23; 4138.0; 15-DEC-2007 23:31:27; Bright; 39.5; 39; 85Eta UMa ; 1.85; 24000;occ; 79; 0;30287
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7; 307.4; 16-DEC-2007 00:08:12; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;30288
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9; 492.5; 16-DEC-2007 00:11:17; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;30288
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 9; 2703.4; 26-DEC-2007 19:00:22; Bright; 41.0; 6; 13Alp Aur ; 0.08; 3400;occ; 82; 0;30442
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20;	3697.8;	27-DEC-2007	01:59:20;	Bright;	;	37.0;	60;	7Bet UMi	;	2.08;	3950;occ;	74;	0;	30446
21;	3917.1;	27-DEC-2007	02:02:59;	Bright;	;	35.0;	119;	14Eta Dra	;	2.73;	4700;occ;	70;	0;	30446
22;	4409.2;	27-DEC-2007	02:11:11;	Bright;	;	50.0;	133;	40Zet Her	;	2.81;	6000;occ;	100;	0;	30446
23;	4532.3;	27-DEC-2007	02:13:15;	Bright;	;	35.5;	67;	5Alp CrB	;	2.22;	11000;occ;	71;	0;	30446
24;	4869.5;	27-DEC-2007	02:18:52;	Bright;	;	33.5;	102;	24Alp Ser	;	2.60;	4250;occ;	67;	0;	30446
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3;	-223.9;	27-DEC-2007	02:34:34;	Dark	;	37.5;	78;	Alp Lup	;	2.30;	28000;occ;	75;	0;	30446
4;	-148.0;	27-DEC-2007	02:35:50;	Dark	;	38.5;	95;	Zet Cen	;	2.55;	26000;occ;	77;	0;	30446
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17;	2192.2;	27-DEC-2007	03:14:50;	Dark	;	52.0;	13;	87Alp Tau	;	0.87;	3800;occ;	104;	0;	30447
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19;	2598.5;	27-DEC-2007	03:21:37;	Bright;	;	34.0;	149;	45Eps Per	;	2.89;	30000;occ;	68;	0;	30447
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15;	588.3;	27-DEC-2007	04:28:42;	Dark	;	40.0;	71;	Iot Car	;	2.25;	7700;occ;	80;	0;	30448
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22; 3423.0; 28-DEC-2007 03:03:44; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;30461

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17; 2200.0; 01-JAN-2008 00:36:53; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30517
18; 2398.2; 01-JAN-2008 00:40:11; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30517
19; 2472.4; 01-JAN-2008 00:41:26; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;30517
20; 2611.4; 01-JAN-2008 00:43:45; Bright; 33.5; 149; 45Eps Per ; 2.89; 30000;occ; 67; 0;30517
21; 2693.4; 01-JAN-2008 00:45:07; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30517
22; 3423.4; 01-JAN-2008 00:57:17; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;30517
23; 3691.7; 01-JAN-2008 01:01:45; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30517
24; 3921.7; 01-JAN-2008 01:05:35; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30517
25; 4047.2; 01-JAN-2008 01:07:40; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;30517
26; 4420.9; 01-JAN-2008 01:13:54; Bright; 51.0; 133; 40Zet Her ; 2.81; 6000;occ; 102; 0;30517
27; 4544.8; 01-JAN-2008 01:15:58; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;30517
28; 4888.5; 01-JAN-2008 01:21:42; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;30517
29; 5028.2; 01-JAN-2008 01:24:01; Bright; 33.5; 120; 1Del Oph ; 2.73; 3200;occ; 67; 0;30517
30; 5191.3; 01-JAN-2008 01:26:45; Bright; 54.5; 104; 27Bet Lib ; 2.61; 13100;occ; 109; 0;30517

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