

GOMOS Daily Report 22-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	24JUN2007 05:37:37
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (22JUN2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (23JUN2007 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)

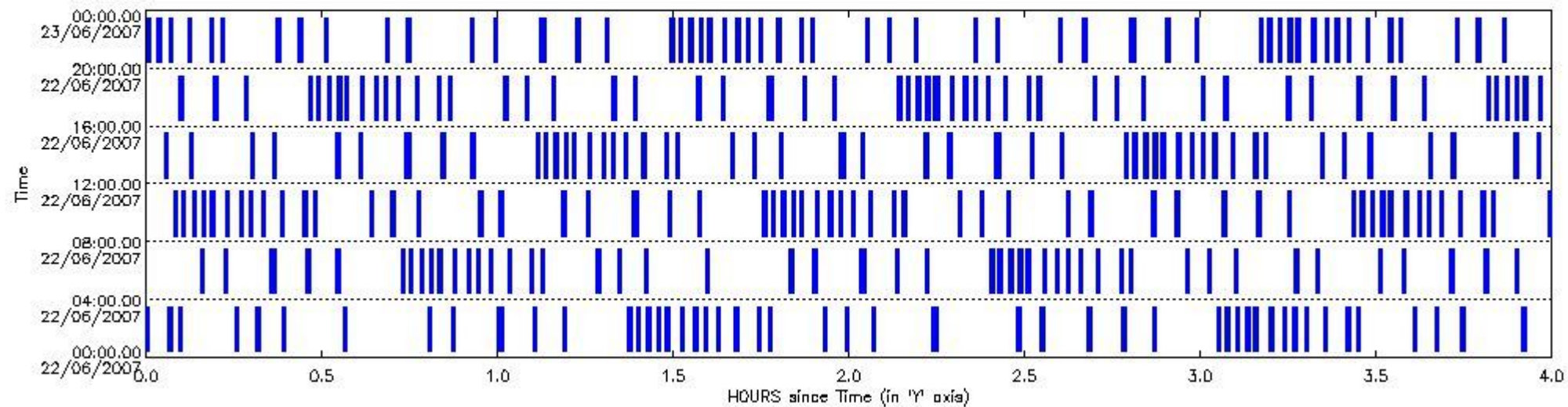
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

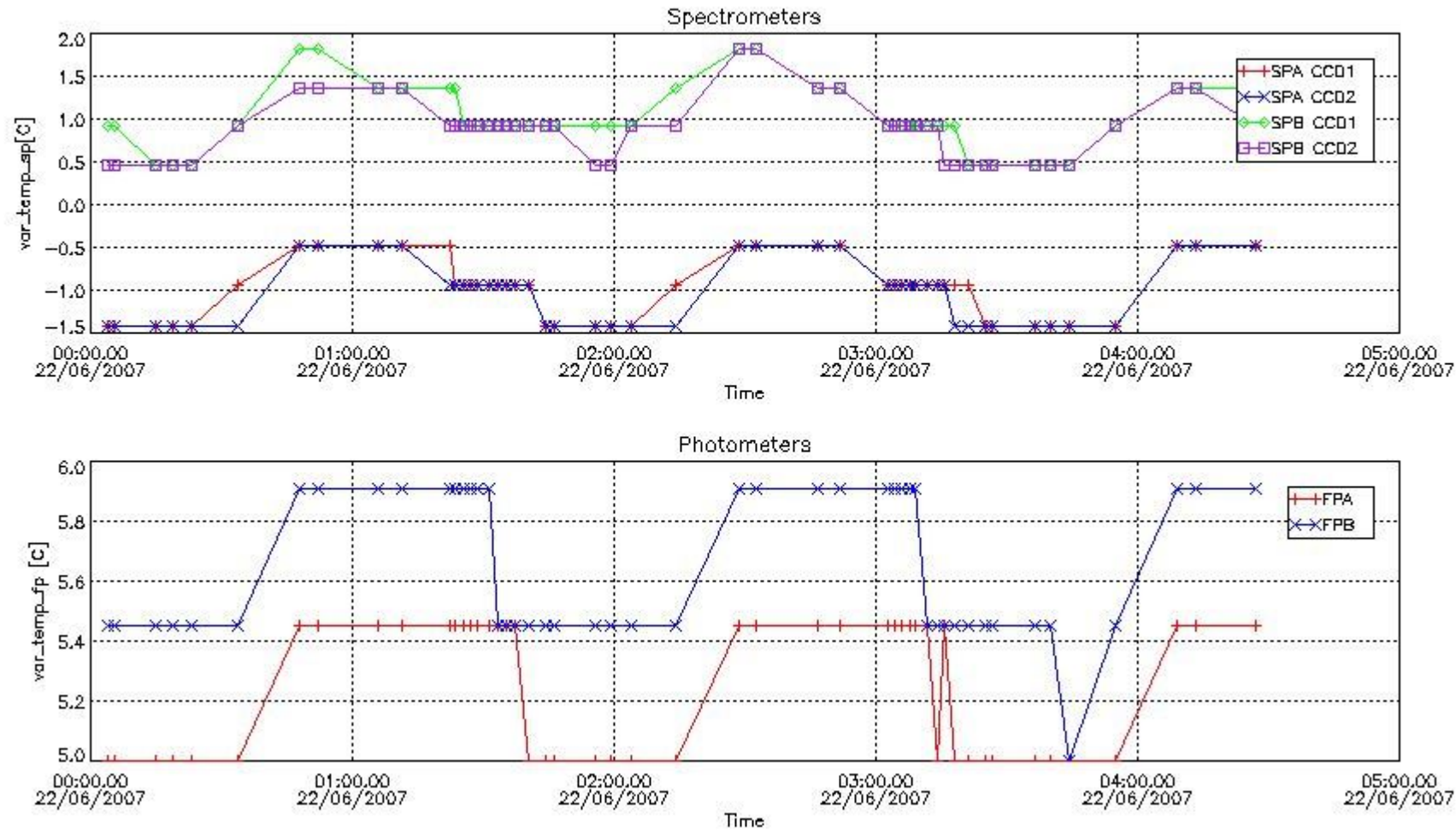
No missing products.

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_1PNPDE20070622_000344_000000372059_00145_27754_7975.N1	22-JUN-2007 00:03:44	Bright	37.000	127	27Bet Her	2.7810	4700.0	74	27754	No
2	GOM_TRA_1PNPDE20070622_000531_000000362059_00145_27754_7976.N1	22-JUN-2007 00:05:31	Bright	36.000	67	5Alp CrB	2.2210	11000.	72	27754	No
3	GOM_TRA_1PNPDE20070622_001504_000000372059_00145_27754_7977.N1	22-JUN-2007 00:15:04	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	27754	No
4	GOM_TRA_1PNPDE20070622_001846_000000372059_00145_27754_7978.N1	22-JUN-2007 00:18:46	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	27754	No
5	GOM_TRA_1PNPDE20070622_002316_000000342059_00145_27754_7979.N1	22-JUN-2007 00:23:16	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	27754	No
6	GOM_TRA_1PNPDE20070622_003335_000000352059_00145_27754_7980.N1	22-JUN-2007 00:33:35	Bright	35.000	160	23Gam Per	2.9300	4700.0	70	27754	No
7	GOM_TRA_1PNPDE20070622_004759_000000372059_00145_27754_7981.N1	22-JUN-2007 00:47:59	Dark	37.000	94	92Alp Cet	2.5260	3100.0	74	27754	No
8	GOM_TRA_1PNPDE20070622_005204_000000392059_00145_27754_8085.N1	22-JUN-2007 00:52:04	Dark	38.500	165	34Gam Eri	2.9500	3200.0	77	27754	Yes
9	GOM_TRA_1PNPDE20070622_010602_000000392059_00145_27754_8086.N1	22-JUN-2007 01:06:02	Dark	38.500	9	Alp Eri	0.45300	24000.	77	27754	No
10	GOM_TRA_1PNPDE20070622_011113_000000362059_00146_27755_8087.N1	22-JUN-2007 01:11:13	Dark	35.500	135	Bet Hyi	2.8200	5800.0	71	27755	No
11	GOM_TRA_1PNPDE20070622_012215_000000392059_00146_27755_8088.N1	22-JUN-2007 01:22:15	Straylight	39.000	141	Bet Ara	2.8400	4600.0	78	27755	No
12	GOM_TRA_1PNPDE20070622_012339_000000402059_00146_27755_8089.N1	22-JUN-2007 01:23:39	Straylight	39.500	147	Alp Ara	2.8770	26000.	79	27755	No

13	GOM_TRA_1PNPDE20070622_012525_000000412059_00146_27755_8090.N1	22-JUN-2007 01:25:25	Twilight	41.000	40	The Sco	1.8590	7100.0	82	27755	No
14	GOM_TRA_1PNPDE20070622_012707_000000432059_00146_27755_8091.N1	22-JUN-2007 01:27:07	Twilight	42.500	25	35Lam Sco	1.6200	28000.	85	27755	No
15	GOM_TRA_1PNPDE20070622_012828_000000482059_00146_27755_8092.N1	22-JUN-2007 01:28:28	Bright	48.000	75	26Eps Sco	2.2910	4250.0	96	27755	No
16	GOM_TRA_1PNPDE20070622_013112_000000362059_00146_27755_8093.N1	22-JUN-2007 01:31:12	Bright	36.000	156	20Sig Sco	2.9030	28000.	72	27755	No
17	GOM_TRA_1PNPDE20070622_013330_000000382059_00146_27755_8094.N1	22-JUN-2007 01:33:30	Bright	38.000	86	35Eta Oph	2.4300	10200.	76	27755	No
18	GOM_TRA_1PNPDE20070622_013514_000000372059_00146_27755_8095.N1	22-JUN-2007 01:35:14	Bright	36.500	98	13Zet Oph	2.5710	30000.	73	27755	No
19	GOM_TRA_1PNPDE20070622_013720_000000362059_00146_27755_8096.N1	22-JUN-2007 01:37:20	Bright	36.000	120	1Del Oph	2.7340	3200.0	72	27755	No
20	GOM_TRA_1PNPDE20070622_014027_000000372059_00146_27755_8097.N1	22-JUN-2007 01:40:27	Bright	36.500	102	24Alp Ser	2.6000	4250.0	73	27755	No
21	GOM_TRA_1PNPDE20070622_014420_000000372059_00146_27755_8098.N1	22-JUN-2007 01:44:20	Bright	37.000	127	27Bet Her	2.7810	4700.0	74	27755	No
22	GOM_TRA_1PNPDE20070622_014607_000000352059_00146_27755_8099.N1	22-JUN-2007 01:46:07	Bright	35.000	67	5Alp CrB	2.2210	11000.	70	27755	No
23	GOM_TRA_1PNPDE20070622_015540_000000362059_00146_27755_8100.N1	22-JUN-2007 01:55:40	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	27755	No
24	GOM_TRA_1PNPDE20070622_015922_000000332059_00146_27755_8101.N1	22-JUN-2007 01:59:22	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	27755	No
25	GOM_TRA_1PNPDE20070622_020352_000000342059_00146_27755_8102.N1	22-JUN-2007 02:03:52	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	27755	No
26	GOM_TRA_1PNPDE20070622_021411_000000532059_00146_27755_8244.N1	22-JUN-2007 02:14:11	Bright	53.000	160	23Gam Per	2.9300	4700.0	106	27755	No
27	GOM_TRA_1PNPDE20070622_022835_000000462059_00146_27755_8245.N1	22-JUN-2007 02:28:35	Dark	45.500	94	92Alp Cet	2.5260	3100.0	91	27755	No
28	GOM_TRA_1PNPDE20070622_023240_000000372059_00146_27755_8246.N1	22-JUN-2007 02:32:40	Dark	37.000	165	34Gam Eri	2.9500	3200.0	74	27755	No
29	GOM_TRA_1PNPDE20070622_024638_000000412059_00146_27755_8247.N1	22-JUN-2007 02:46:38	Dark	41.000	9	Alp Eri	0.45300	24000.	82	27755	No
30	GOM_TRA_1PNPDE20070622_025149_000000372059_00147_27756_8248.N1	22-JUN-2007 02:51:49	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	27756	No
31	GOM_TRA_1PNPDE20070622_030251_000000402059_00147_27756_8249.N1	22-JUN-2007 03:02:51	Straylight	40.000	141	Bet Ara	2.8400	4600.0	80	27756	No
32	GOM_TRA_1PNPDE20070622_030415_000000382059_00147_27756_8250.N1	22-JUN-2007 03:04:15	Straylight	37.500	147	Alp Ara	2.8770	26000.	75	27756	No
33	GOM_TRA_1PNPDE20070622_030602_000000432059_00147_27756_8251.N1	22-JUN-2007 03:06:02	Twilight	43.000	40	The Sco	1.8590	7100.0	86	27756	No
34	GOM_TRA_1PNPDE20070622_030743_000000432059_00147_27756_8252.N1	22-JUN-2007 03:07:43	Twilight	42.500	25	35Lam Sco	1.6200	28000.	85	27756	No
35	GOM_TRA_1PNPDE20070622_030905_000000522059_00147_27756_8253.N1	22-JUN-2007 03:09:05	Bright	52.000	75	26Eps Sco	2.2910	4250.0	104	27756	No
36	GOM_TRA_1PNPDE20070622_031148_000000362059_00147_27756_8254.N1	22-JUN-2007 03:11:48	Bright	36.000	156	20Sig Sco	2.9030	28000.	72	27756	No
37	GOM_TRA_1PNPDE20070622_031406_000000382059_00147_27756_8255.N1	22-JUN-2007 03:14:06	Bright	37.500	86	35Eta Oph	2.4300	10200.	75	27756	No
38	GOM_TRA_1PNPDE20070622_031550_000000352059_00147_27756_8256.N1	22-JUN-2007 03:15:50	Bright	35.000	98	13Zet Oph	2.5710	30000.	70	27756	No
39	GOM_TRA_1PNPDE20070622_031756_000000362059_00147_27756_8257.N1	22-JUN-2007 03:17:56	Bright	35.500	120	1Del Oph	2.7340	3200.0	71	27756	No
40	GOM_TRA_1PNPDE20070622_032103_000000352059_00147_27756_8258.N1	22-JUN-2007 03:21:03	Bright	34.500	102	24Alp Ser	2.6000	4250.0	69	27756	No
41	GOM_TRA_1PNPDE20070622_032456_000000352059_00147_27756_8259.N1	22-JUN-2007 03:24:56	Bright	35.000	127	27Bet Her	2.7810	4700.0	70	27756	No
42	GOM_TRA_1PNPDE20070622_032644_000000362059_00147_27756_8260.N1	22-JUN-2007 03:26:44	Bright	35.500	67	5Alp CrB	2.2210	11000.	71	27756	No
43	GOM_TRA_1PNPDE20070622_033616_000000332059_00147_27756_8261.N1	22-JUN-2007 03:36:16	Bright	32.500	119	14Eta Dra	2.7270	4700.0	65	27756	No
44	GOM_TRA_1PNPDE20070622_033958_000000342059_00147_27756_8262.N1	22-JUN-2007 03:39:58	Bright	34.000	60	7Bet UMi	2.0810	3950.0	68	27756	No
45	GOM_TRA_1PNPDE20070622_034428_000000362059_00147_27756_8263.N1	22-JUN-2007 03:44:28	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	27756	No
46	GOM_TRA_1PNPDE20070622_035447_000000532059_00147_27756_8433.N1	22-JUN-2007 03:54:47	Bright	53.000	160	23Gam Per	2.9300	4700.0	106	27756	No
47	GOM_TRA_1PNPDE20070622_040911_000000422059_00147_27756_8434.N1	22-JUN-2007 04:09:11	Dark	41.500	94	92Alp Cet	2.5260	3100.0	83	27756	No
48	GOM_TRA_1PNPDE20070622_041315_000000352059_00147_27756_8435.N1	22-JUN-2007 04:13:15	Dark	35.000	165	34Gam Eri	2.9500	3200.0	70	27756	No
49	GOM_TRA_1PNPDE20070622_042715_000000462059_00147_27756_8436.N1	22-JUN-2007 04:27:15	Dark	45.500	9	Alp Eri	0.45300	24000.	91	27756	No

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



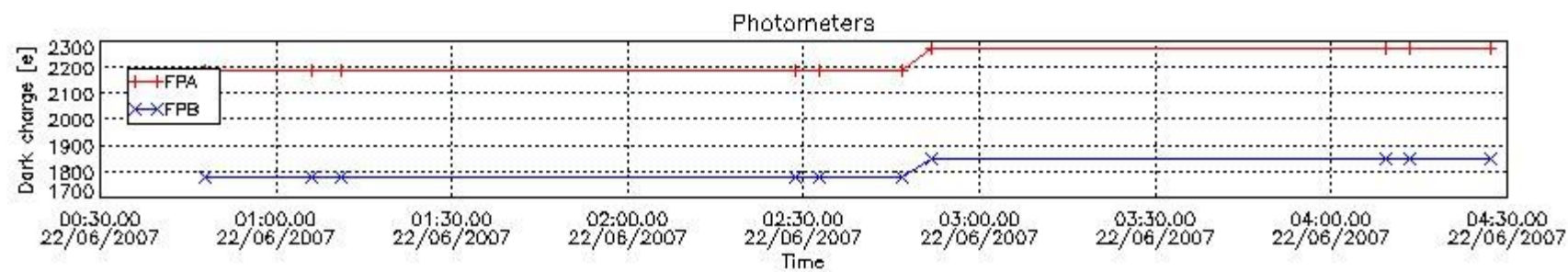
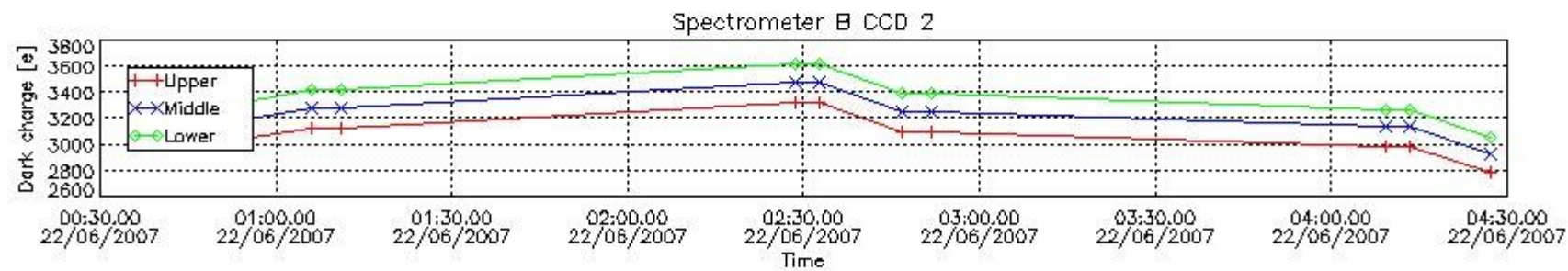
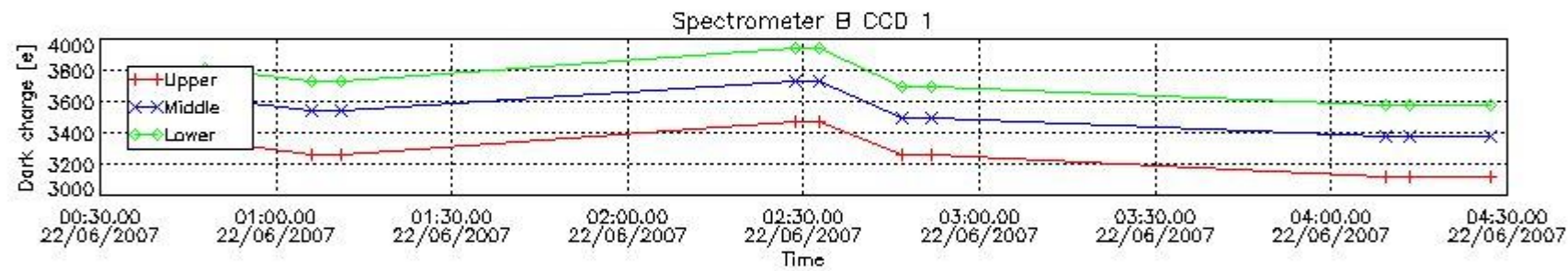
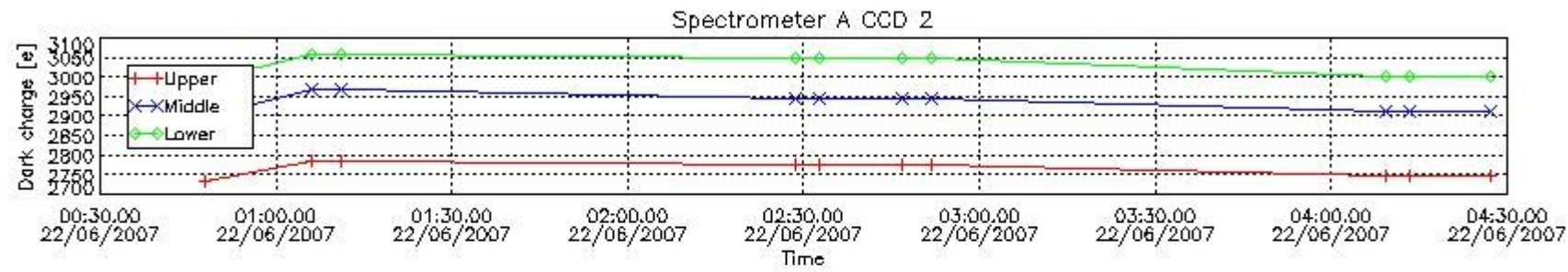
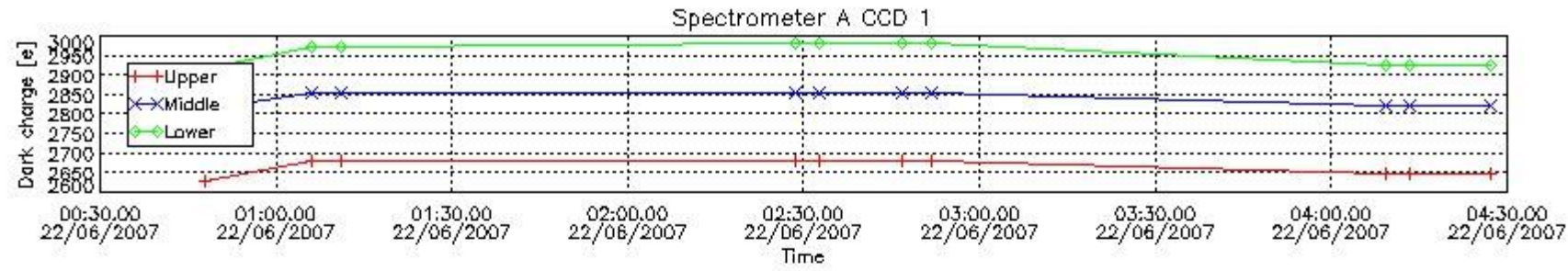
4. Overview of dark signal processing per product

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



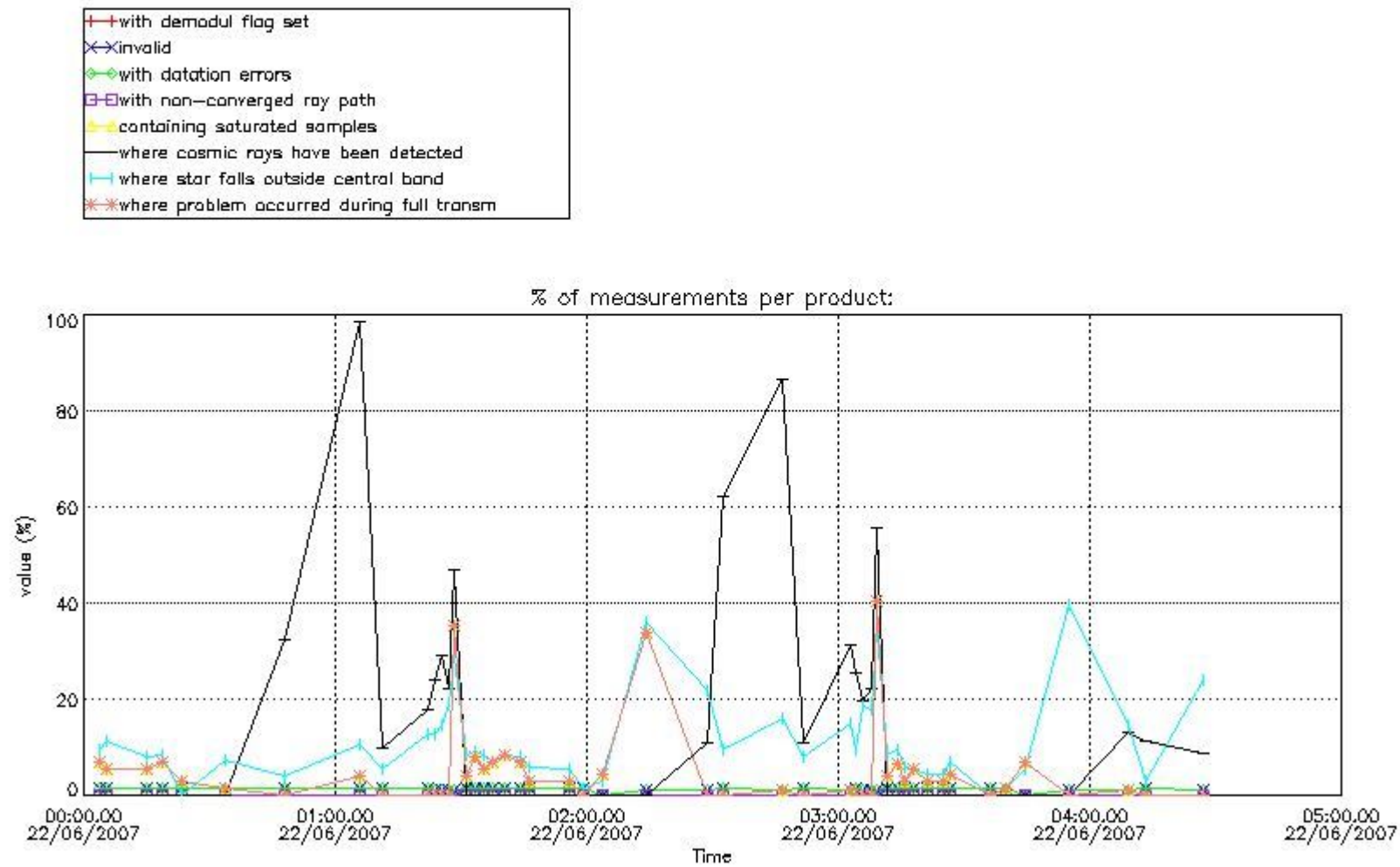
5. Demodulation flag and quality information monitoring

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.

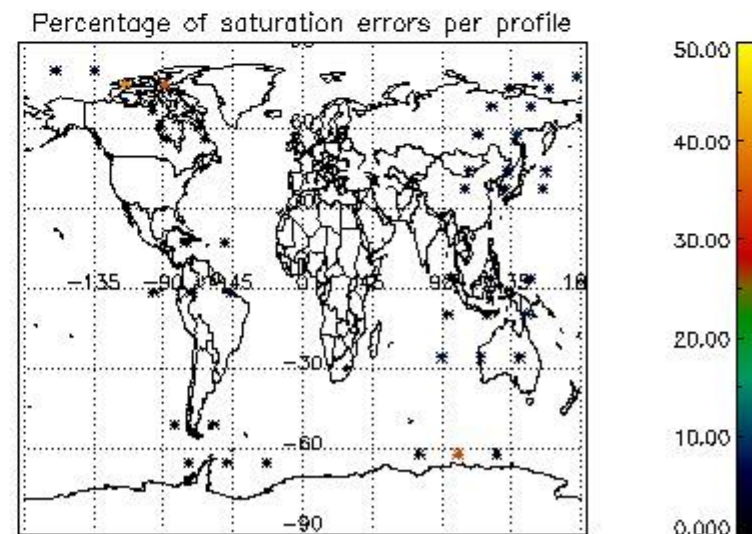
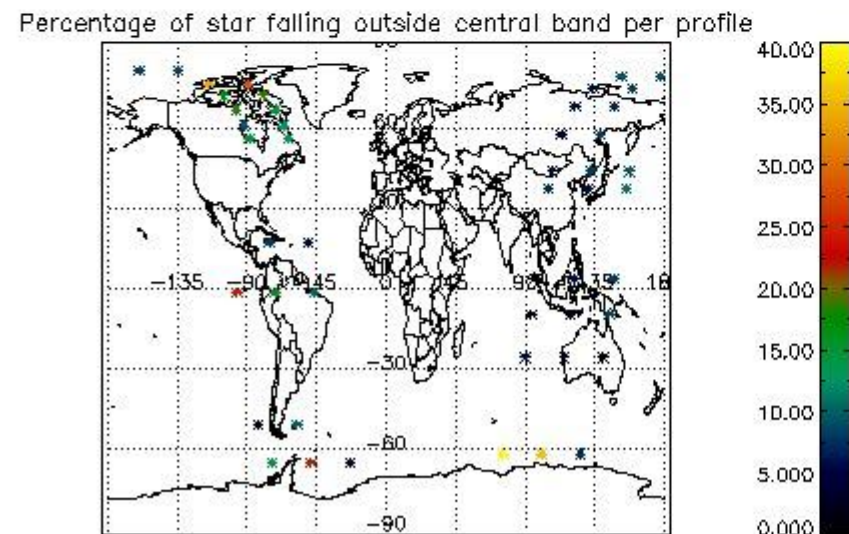
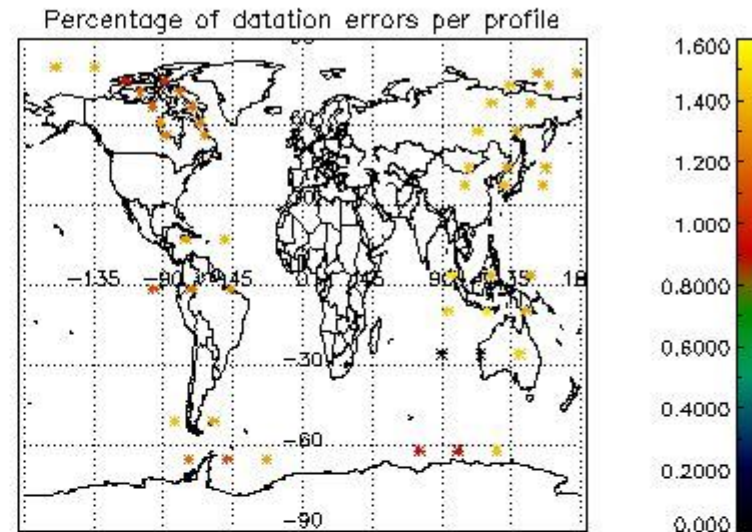
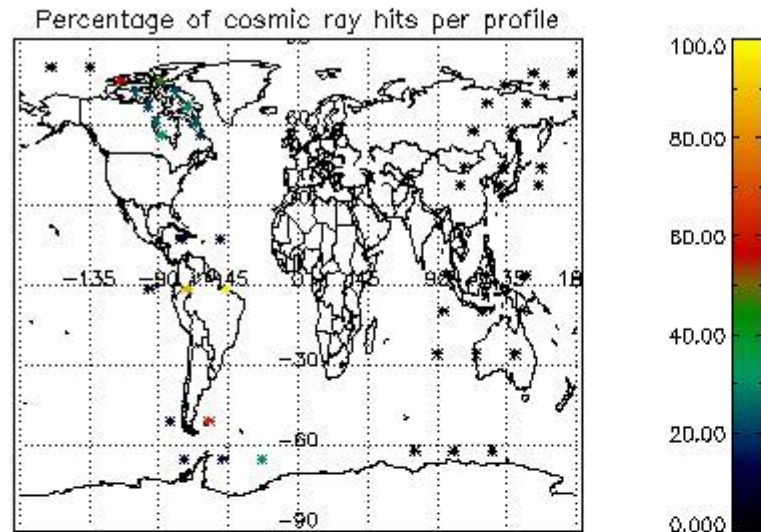
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	12.5000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



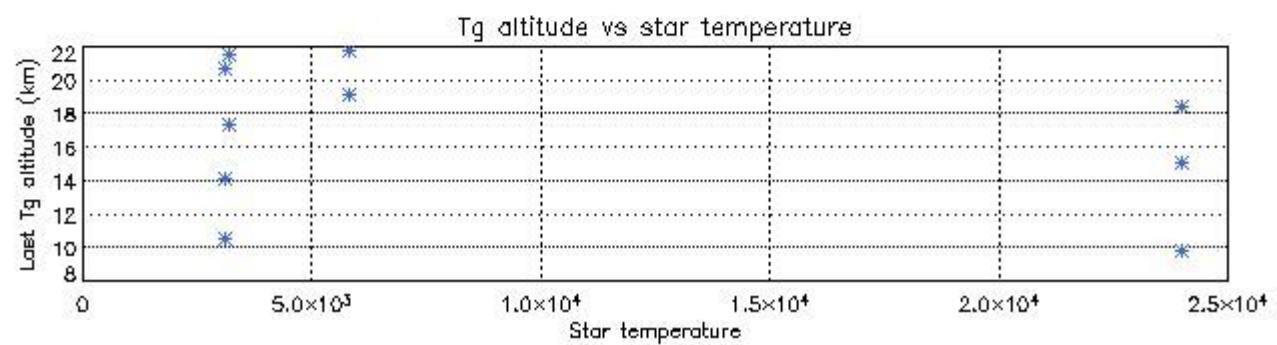
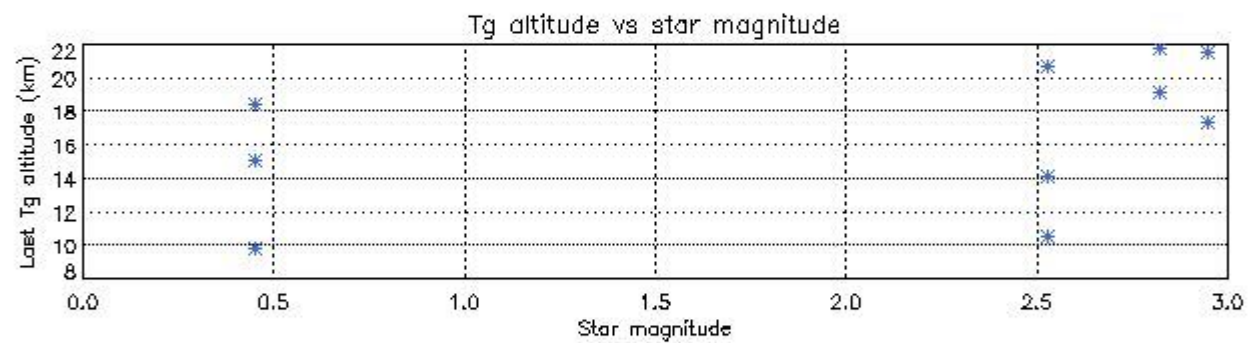
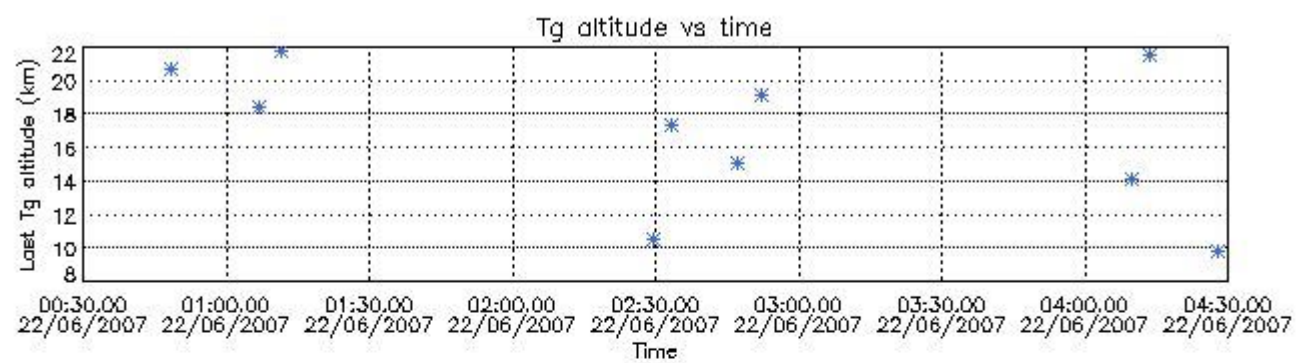
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.835	19.449	NaN
St. deviation:	4.3498	6.4053	NaN
Maximum:	21.732	29.235	NaN
Minimum:	9.7941	4.1051	NaN
Number of data:	10.000	30.000	NaN

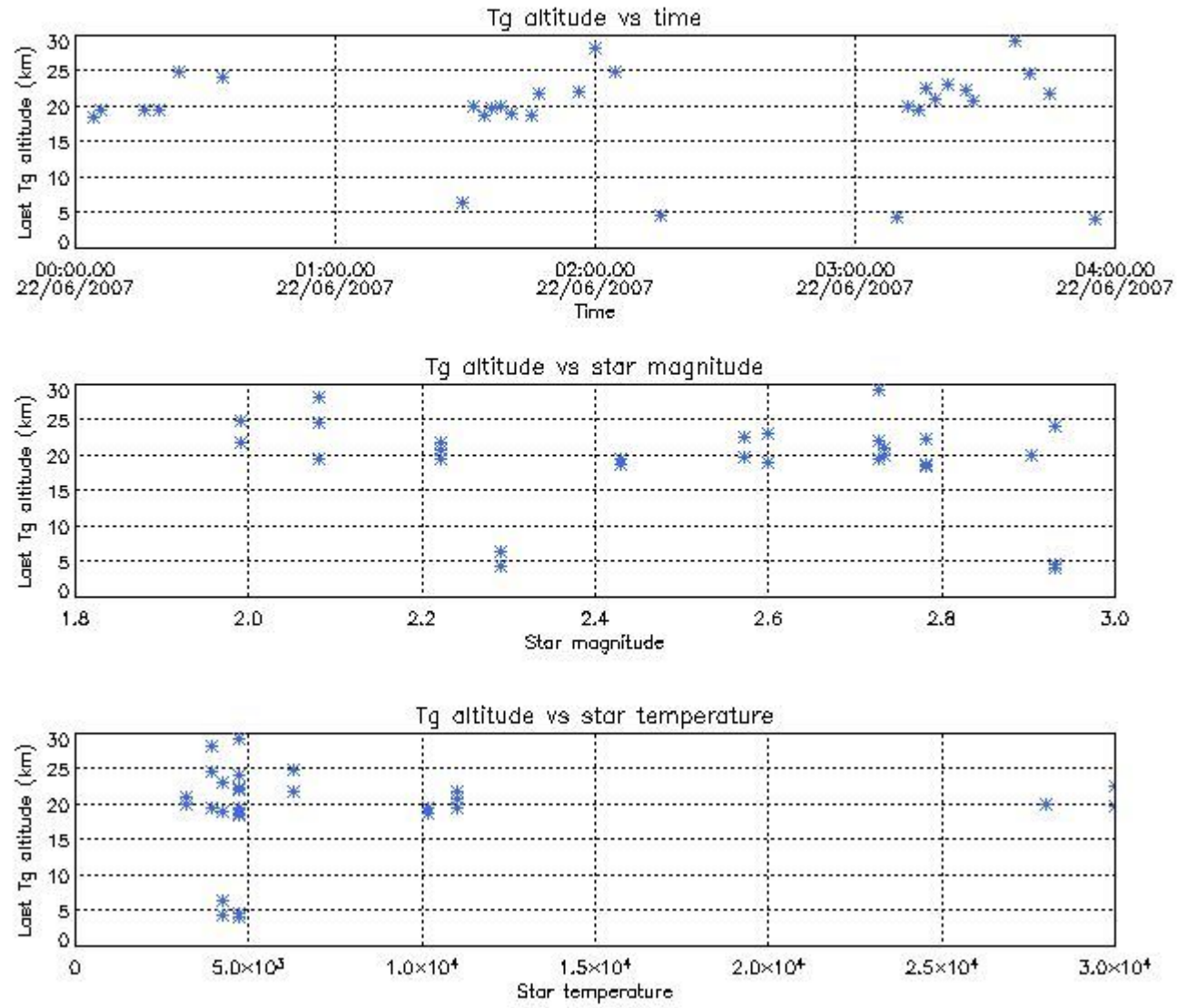
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

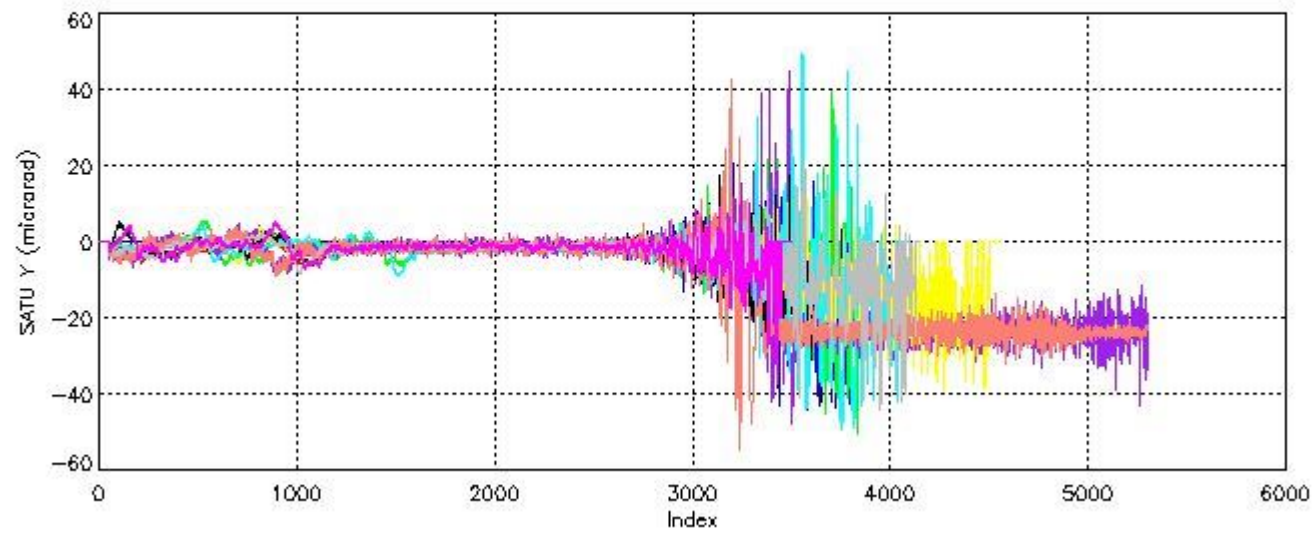
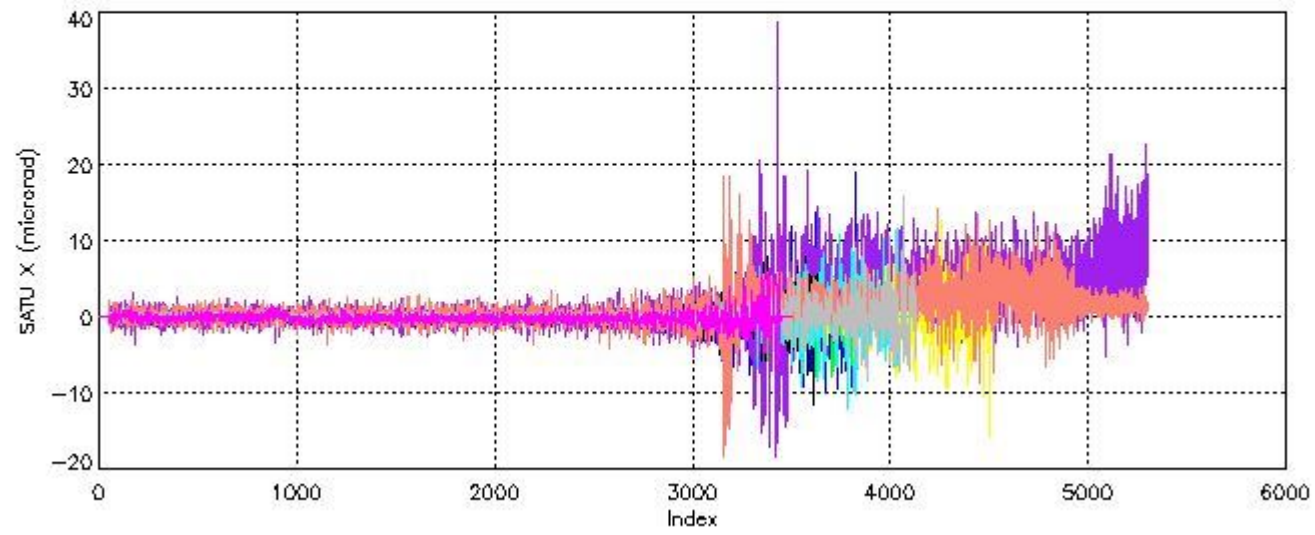


7. Star Acquisition and Tracking Unit (SATU)

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:	-0.033869	-1.1591	0.067978	-1.1343
St. deviation:	0.35156	1.9563	0.71439	2.0737
Maximum:	2.6000	6.7000	3.9000	8.1000
Minimum:	-2.3000	-8.0000	-4.4000	-8.4000

Number of data:	8750.0	8750.0	24800.	24800.
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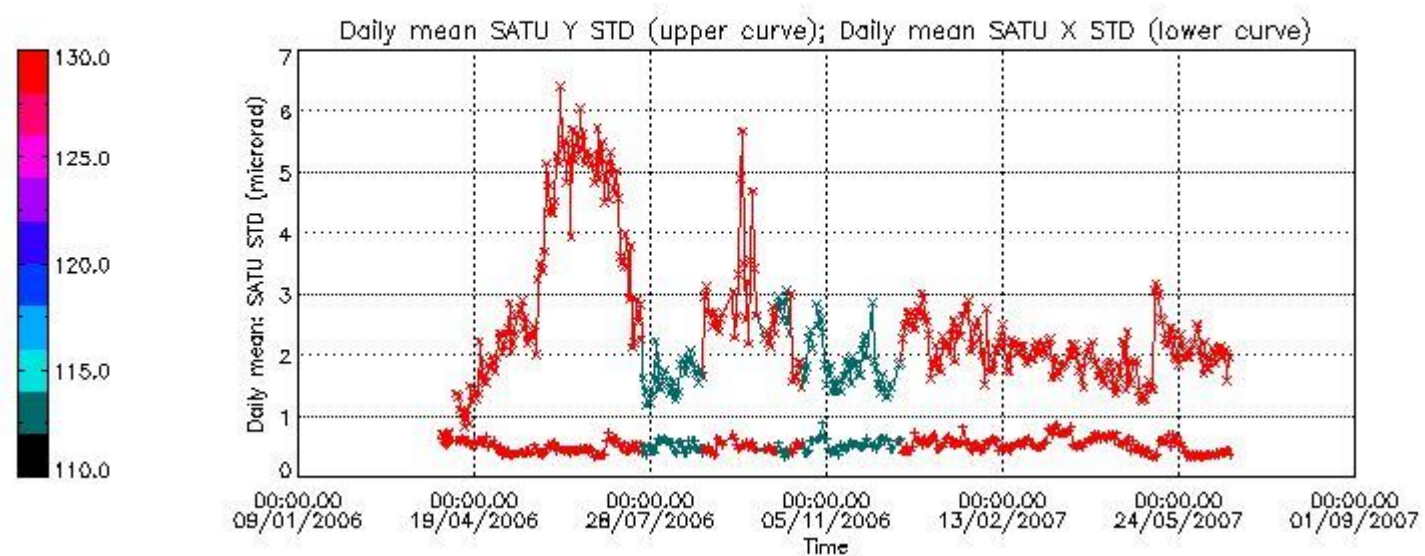
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

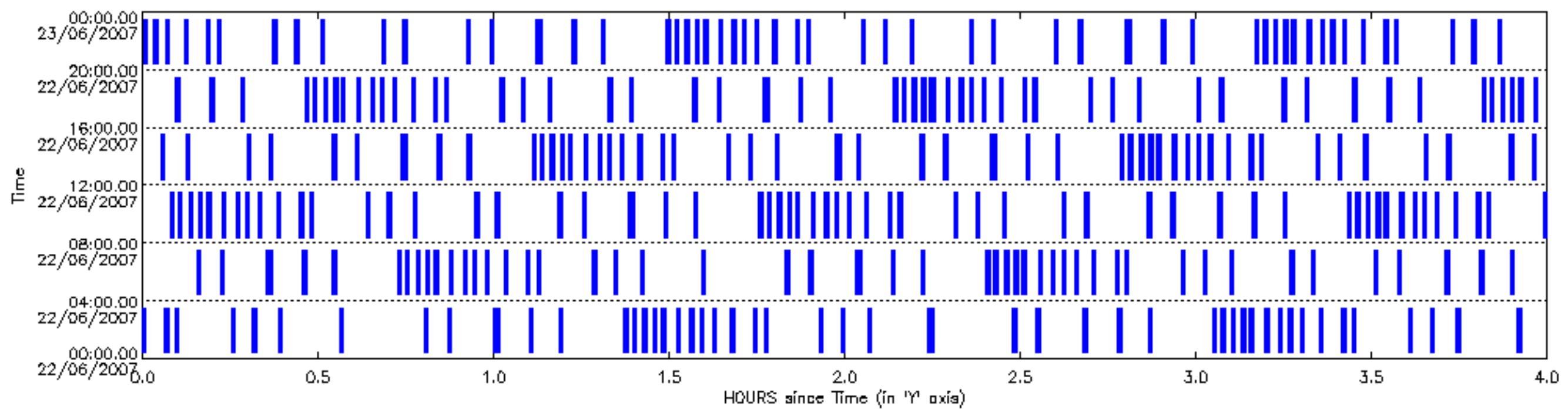
Lower curve: STD of SATU X axis

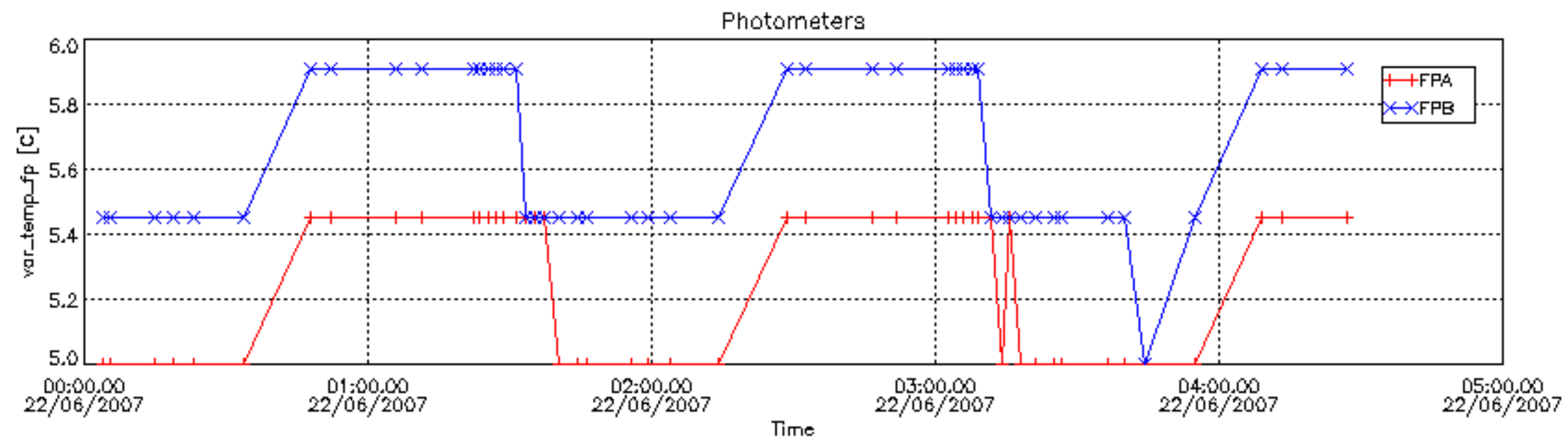
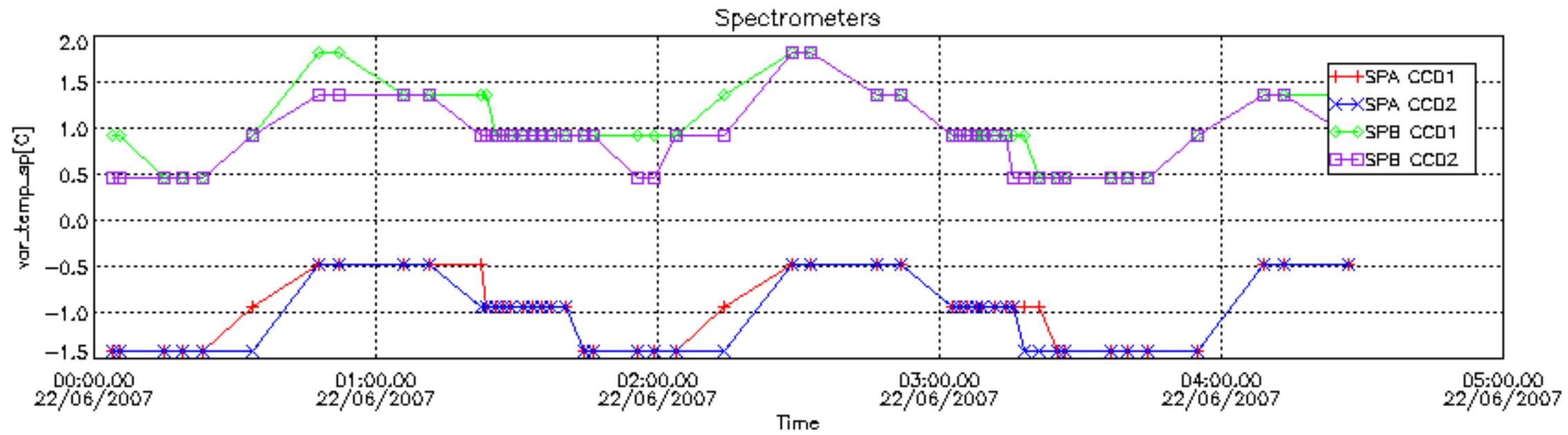


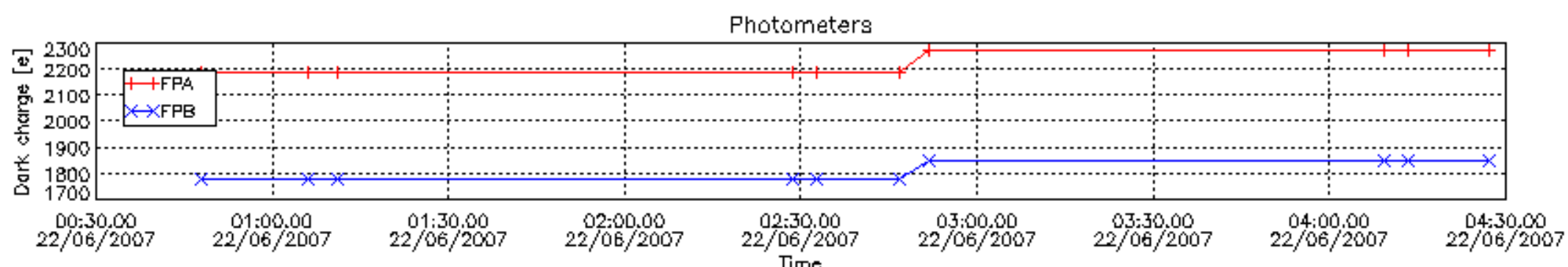
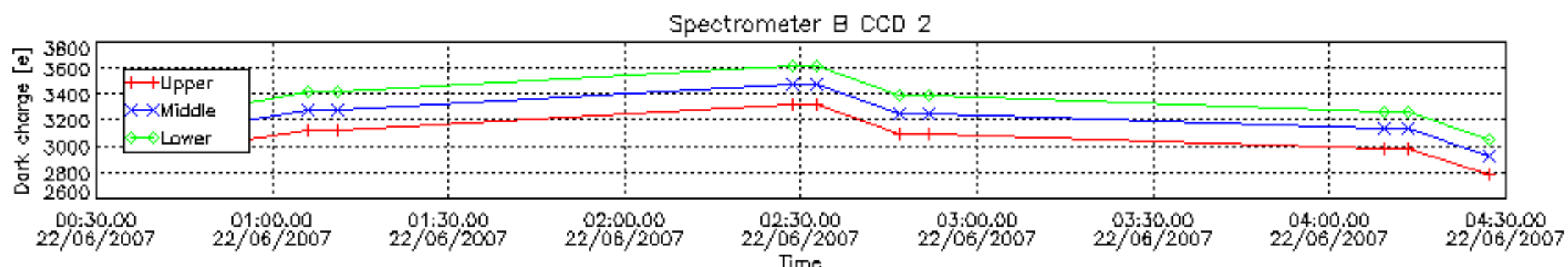
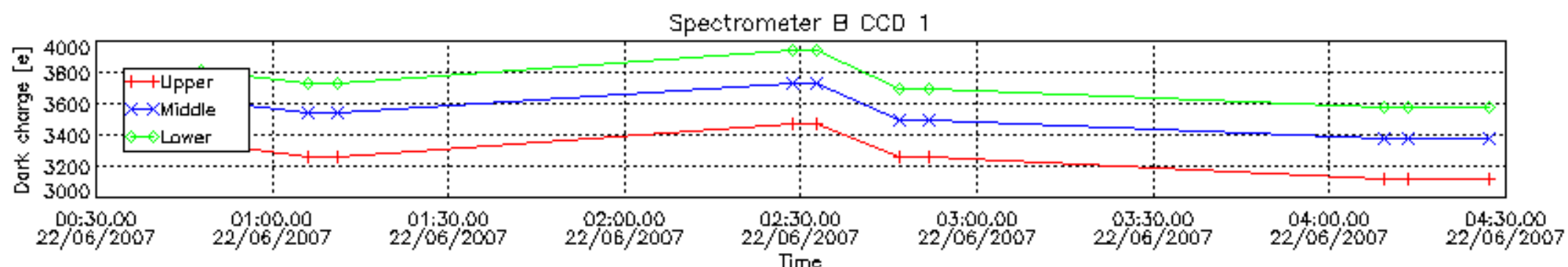
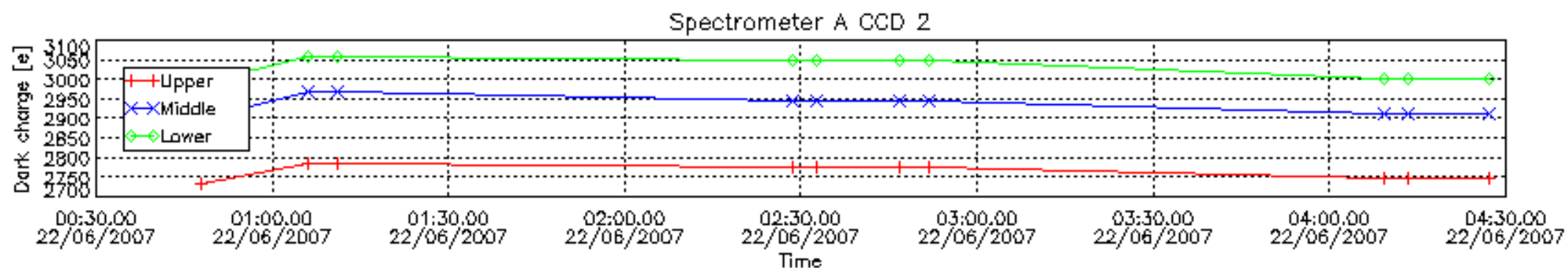
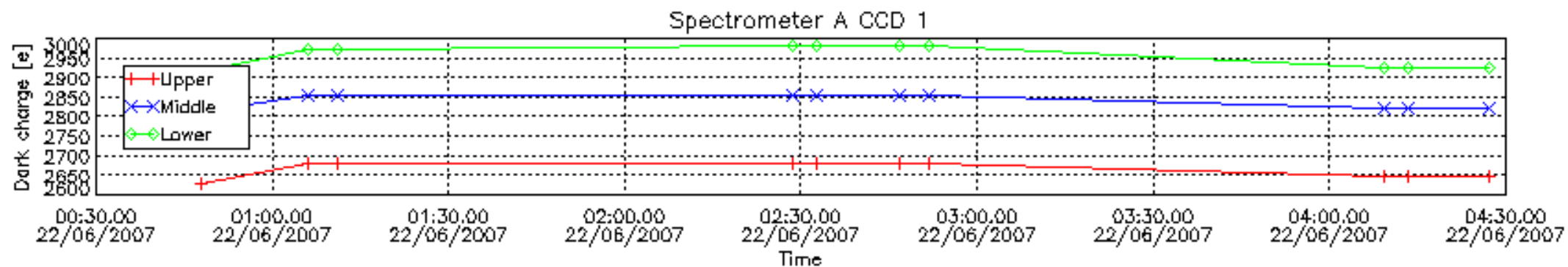
8. Auxiliary Data Files used for the production reported in section 2.4

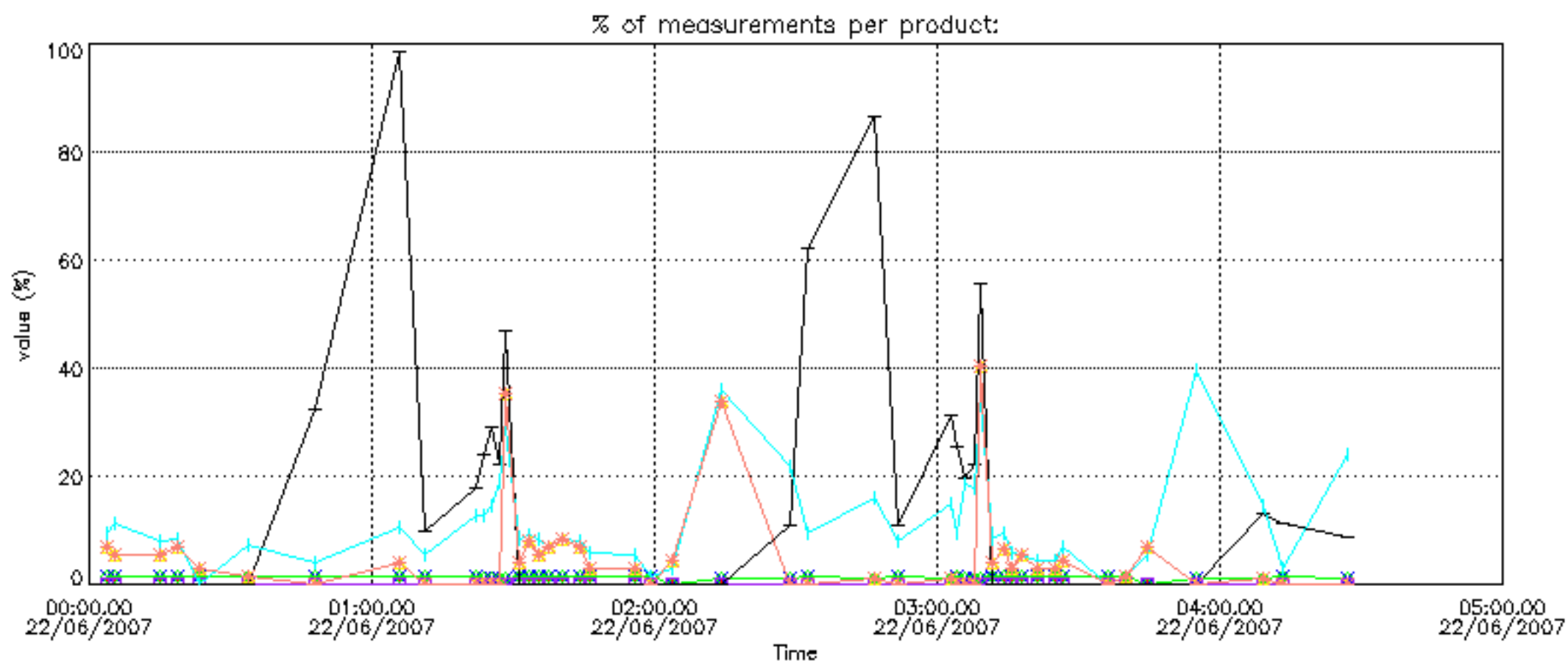
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	22-JUN-2007 00:03:44
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070618_075311_20070617_000000_20100101_000000	1	22-JUN-2007 00:03:44
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	22-JUN-2007 00:03:44
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	22-JUN-2007 00:03:44
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	22-JUN-2007 00:03:44
ECMWF_FILE	AUX_ECF_AXNECM20070621_062111_20070621_210000_20070622_090000	1	22-JUN-2007 00:03:44
ECMWF_FILE	AUX_ECF_AXNECM20070621_181844_20070622_030000_20070622_150000	46	22-JUN-2007 03:54:47
OPTIONAL_ECMWF_FILE	MISSING	1	22-JUN-2007 00:03:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070621_212716_000060572059_00143_27752_3624.N1	1	22-JUN-2007 00:03:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070621_230813_000057382059_00144_27753_3625.N1	8	22-JUN-2007 00:52:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070622_004910_000041442059_00145_27754_3626.N1	26	22-JUN-2007 02:14:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070622_034430_000057382059_00147_27756_3628.N1	46	22-JUN-2007 03:54:47

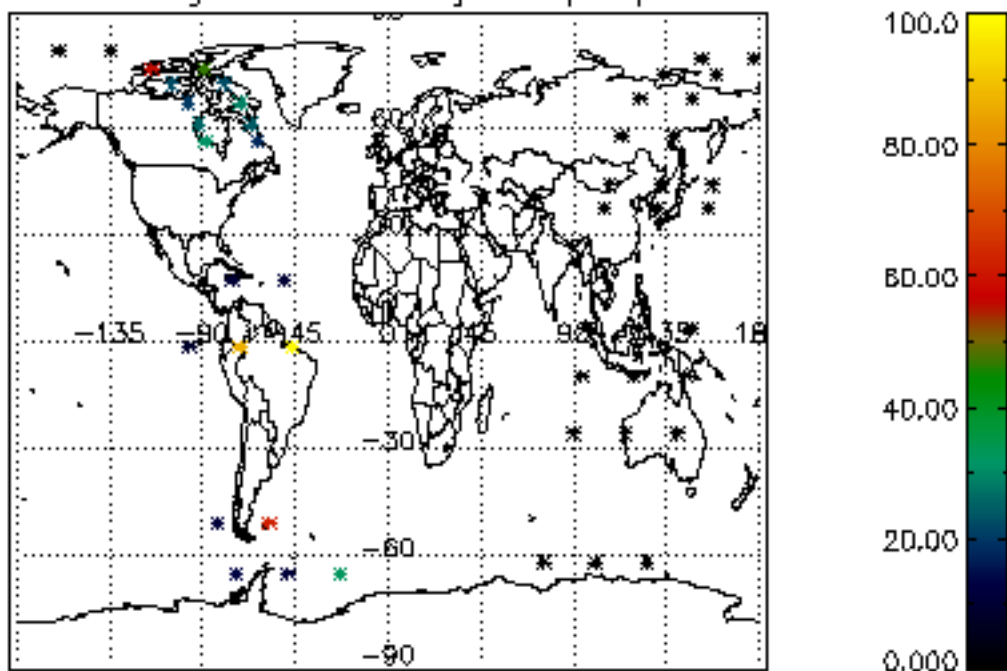




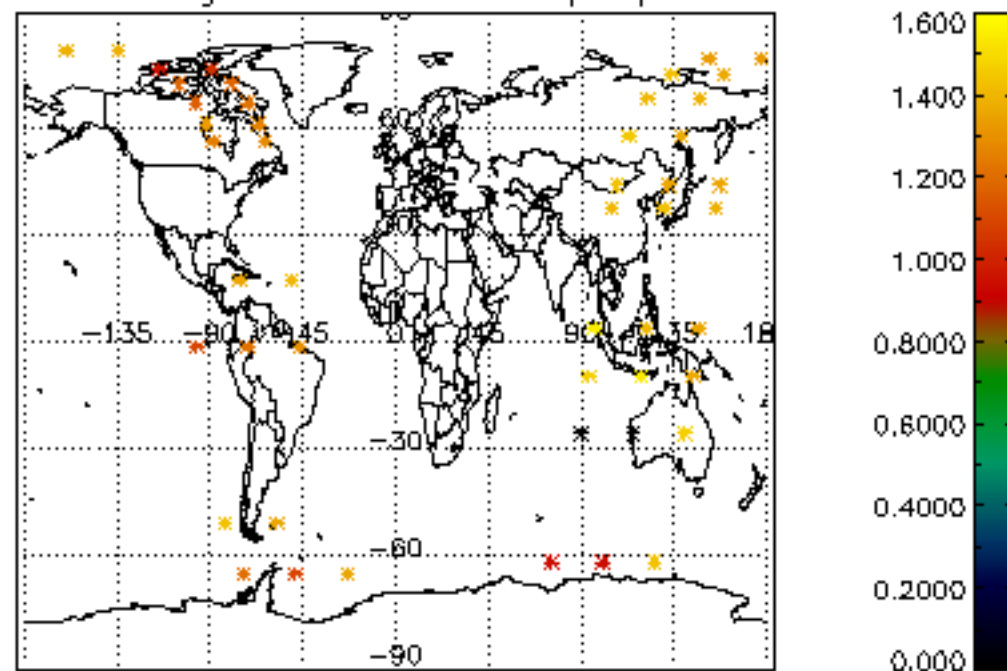




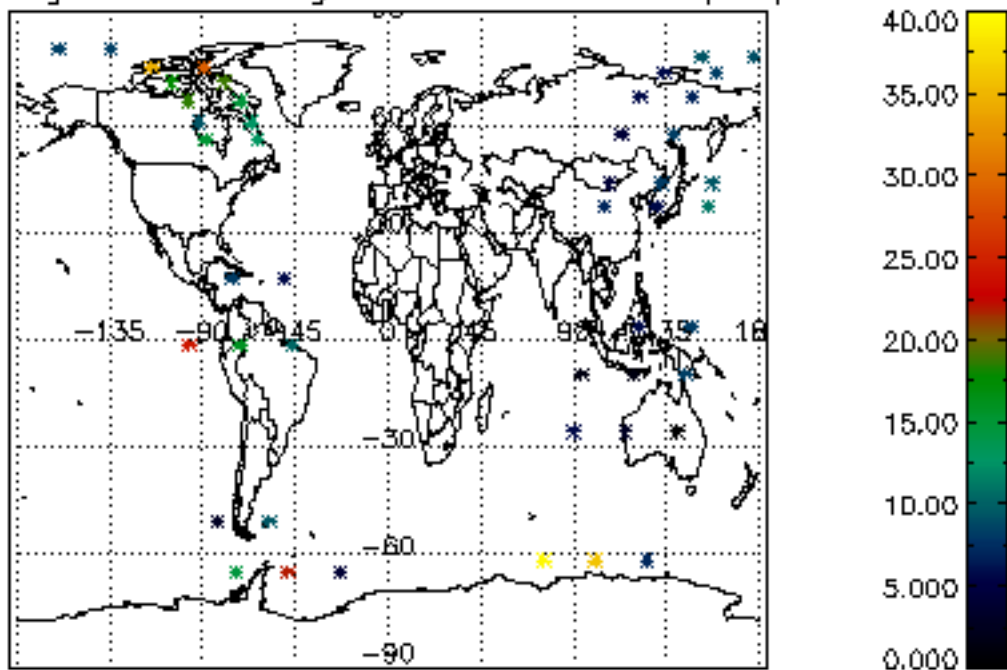
Percentage of cosmic ray hits per profile



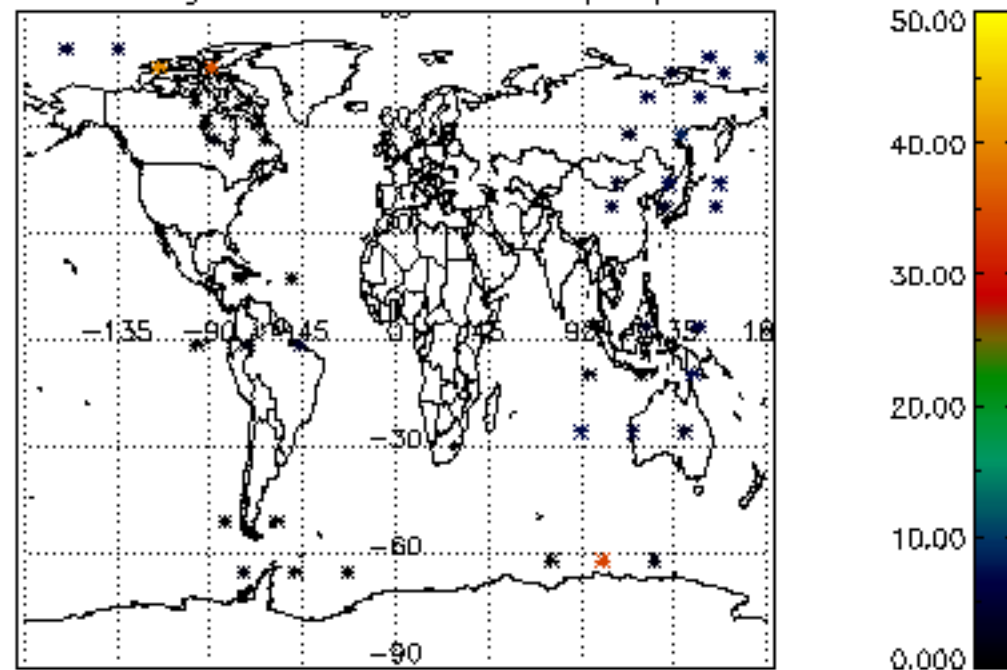
Percentage of datation errors per profile



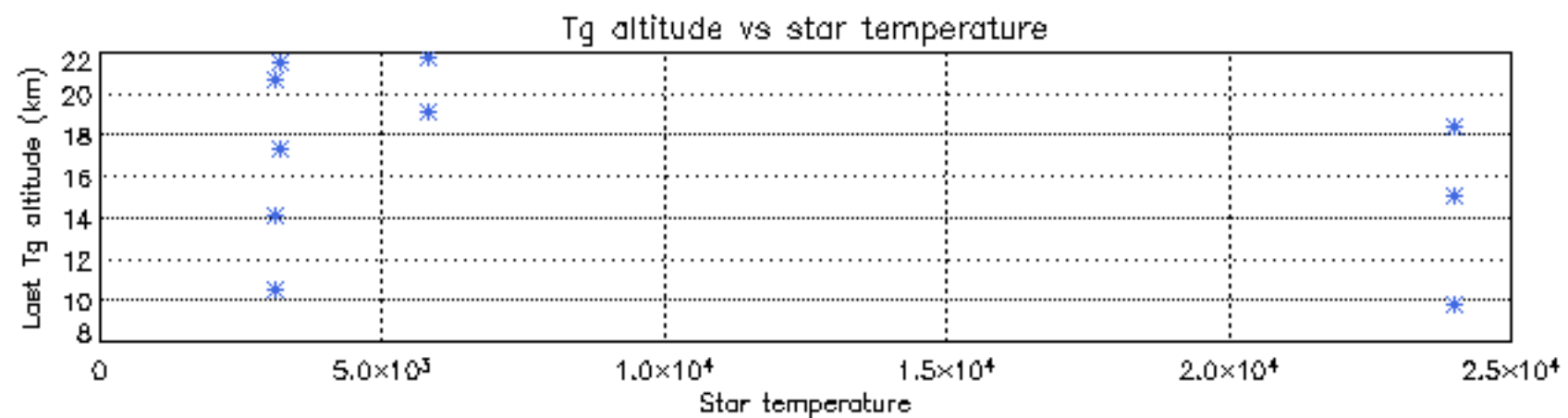
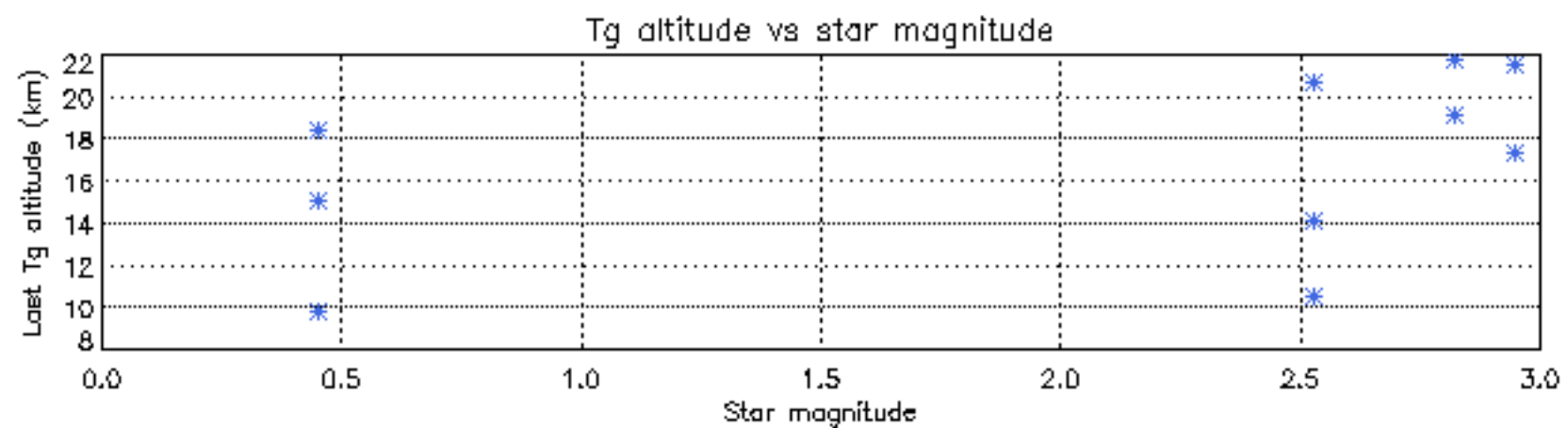
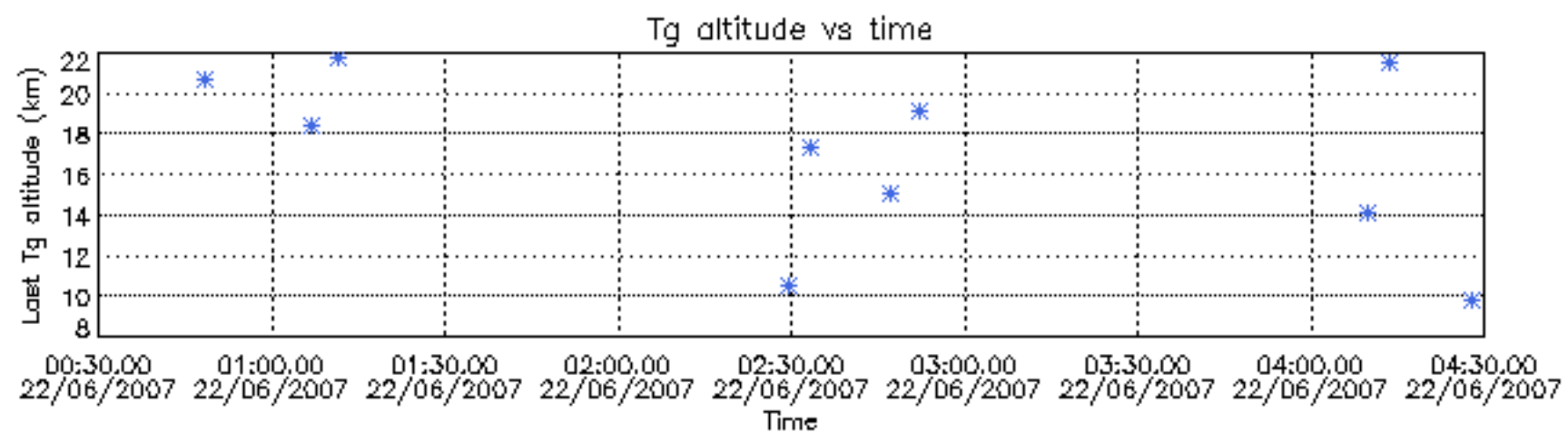
Percentage of star falling outside central band per profile



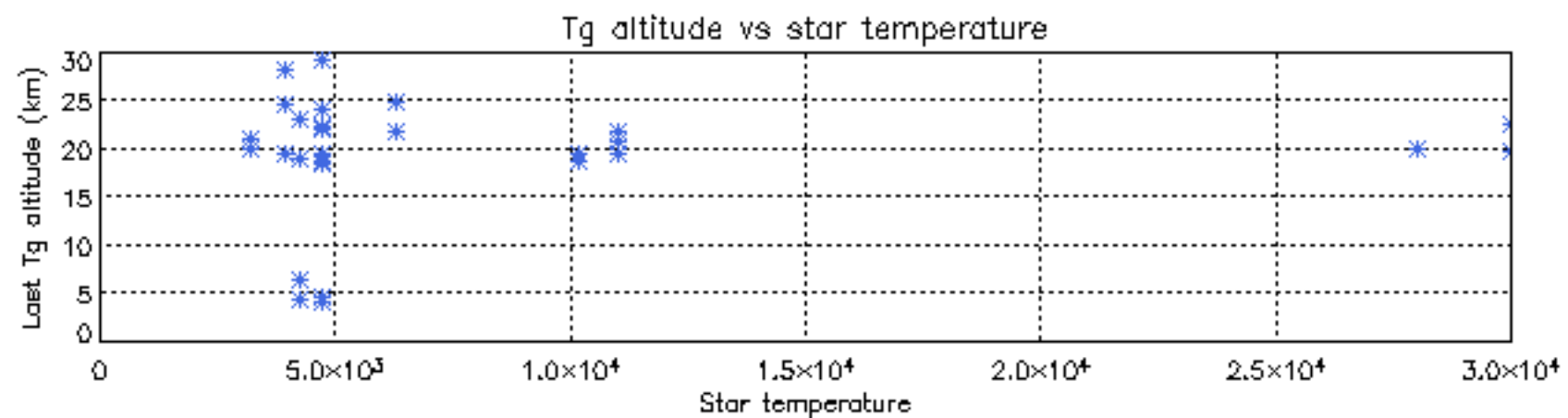
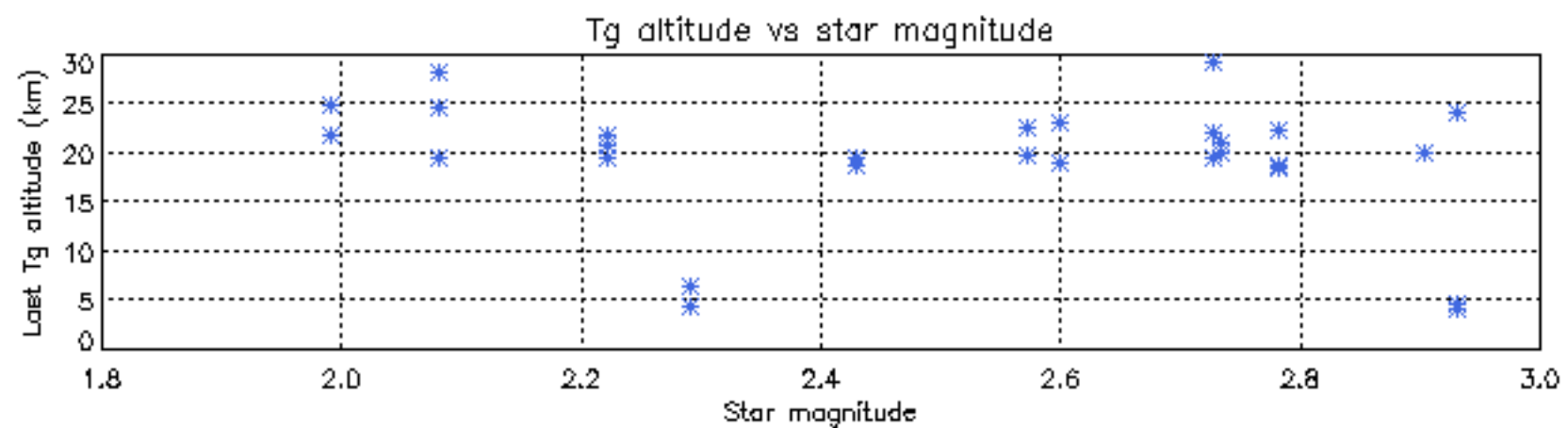
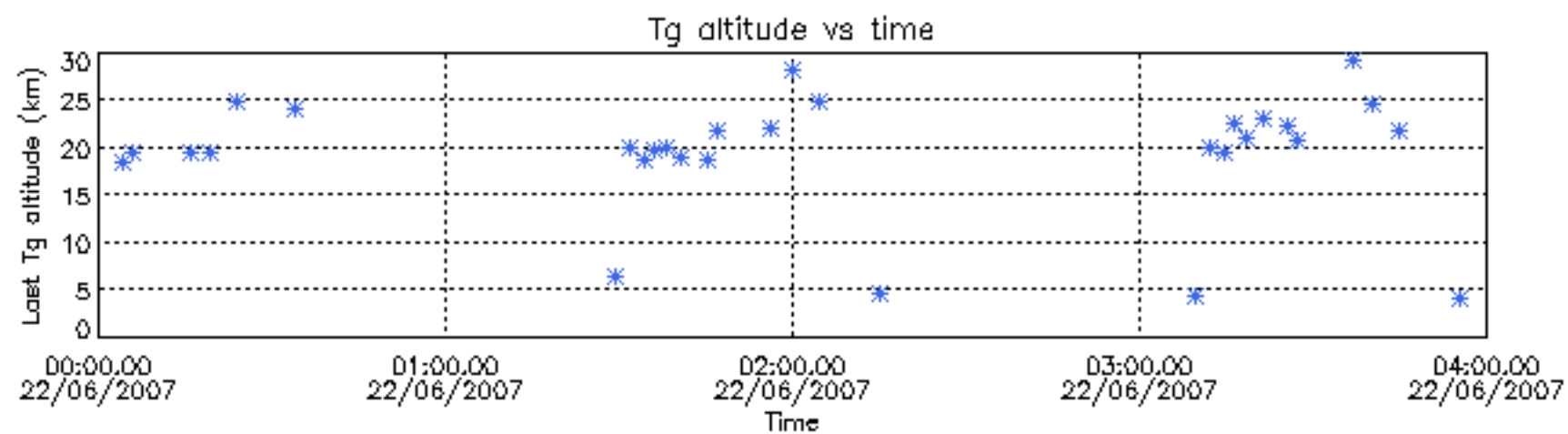
Percentage of saturation errors per profile

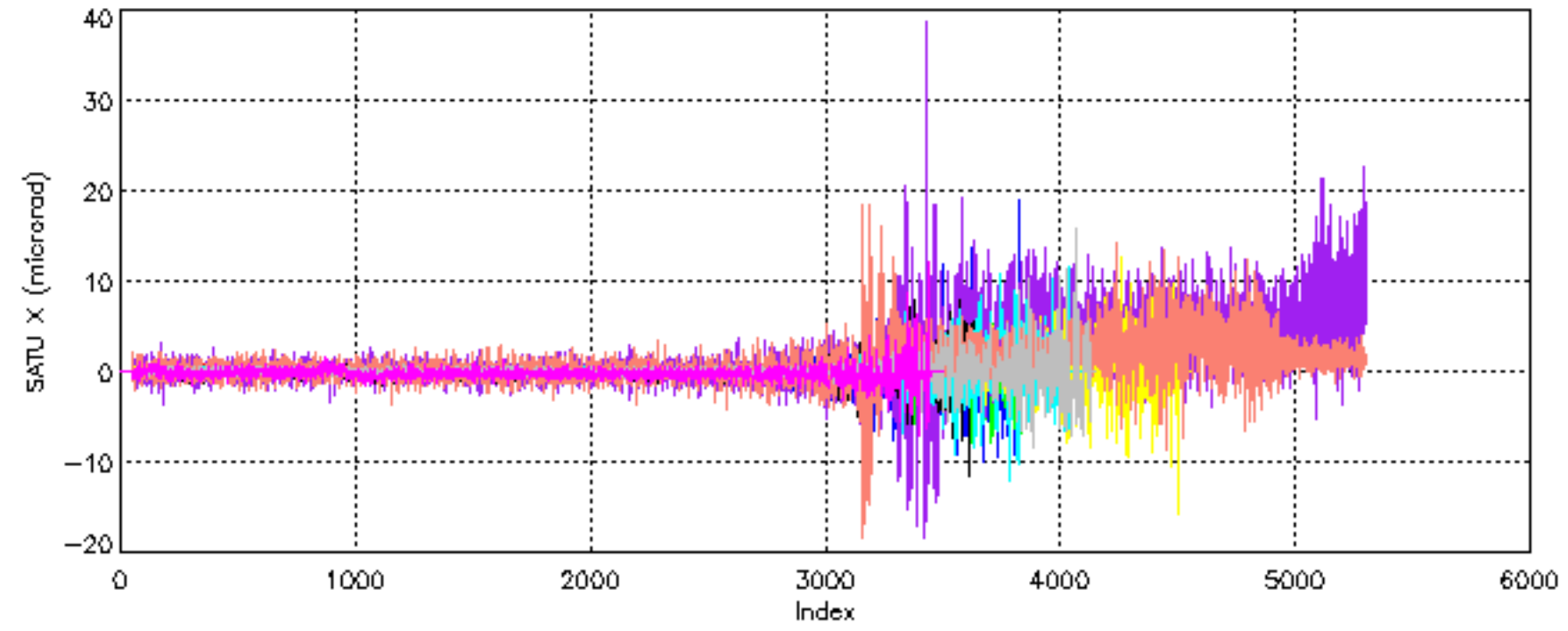


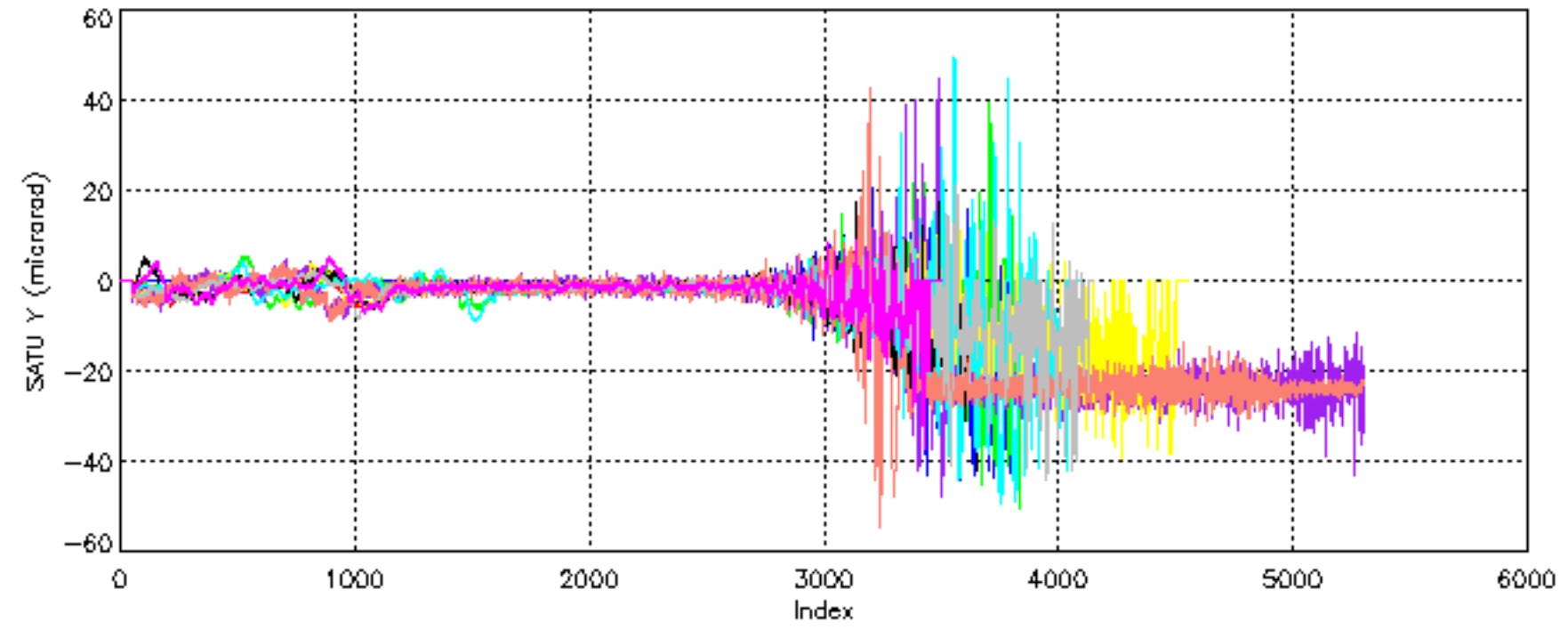
Tangent altitude at which the star is lost

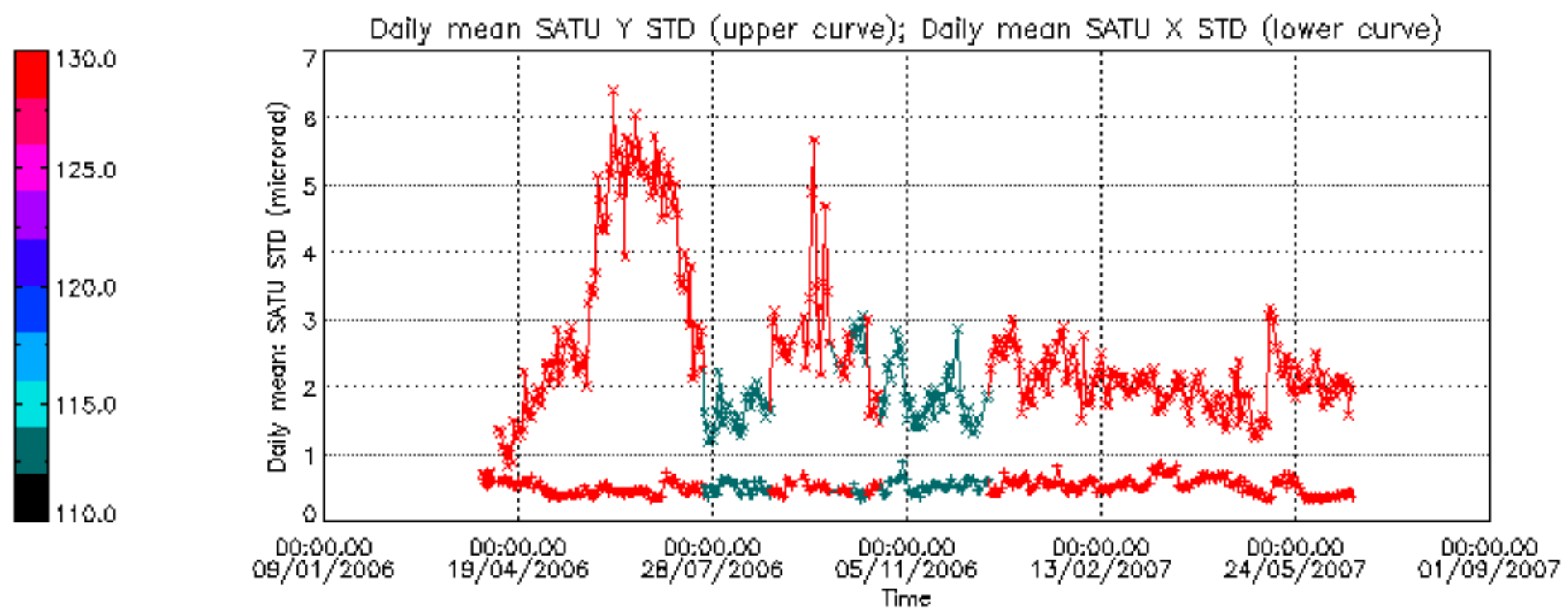


Tangent altitude at which the star is lost









/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
 2; -1642.2; 01-JUN-2007 05:00:37; Bright; 44.0; 53; 43Bet And ; 2.05; 3300;occ; 88; 0;27456
 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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1; 879.2; 01-JUN-2007 20:48:02; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 34;27466
 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
 8; 1703.0; 01-JUN-2007 21:01:46; Bright; 40.5; 98; 13Zet Oph ; 2.57; 30000;occ; 81; 0;27466
 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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 2; -381.8; 01-JUN-2007 22:07:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27466
 3; -238.3; 01-JUN-2007 22:10:00; Dark ; 46.0; 84; Alp Phe ; 2.40; 4500;occ; 92; 0;27466
 4; 82.9; 01-JUN-2007 22:15:21; Dark ; 61.5; 63; Bet Gru ; 2.15; 2800;occ; 123; 0;27467
 5; 195.8; 01-JUN-2007 22:17:14; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;27467
 6; 492.7; 01-JUN-2007 22:22:11; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27467
 7; 862.6; 01-JUN-2007 22:28:21; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;27467
 8; 937.9; 01-JUN-2007 22:29:36; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;27467
 9; 1039.3; 01-JUN-2007 22:31:18; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;27467
 10; 1147.1; 01-JUN-2007 22:33:06; Dark ; 48.0; 25; 35Lam Sco ; 1.62; 28000;occ; 96; 0;27467
 11; 1252.8; 01-JUN-2007 22:34:51; Dark ; 43.5; 75; 26Eps Sco ; 2.29; 4250;occ; 87; 0;27467
 12; 1374.4; 01-JUN-2007 22:36:53; Dark ; 39.5; 136; 23Tau Sco ; 2.82; 30000;occ; 79; 0;27467
 13; 1545.1; 01-JUN-2007 22:39:44; Bright; 38.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 76; 0;27467
 14; 1702.9; 01-JUN-2007 22:42:21; Bright; 41.5; 98; 13Zet Oph ; 2.57; 30000;occ; 83; 0;27467
 15; 1834.0; 01-JUN-2007 22:44:32; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;27467
 16; 2014.7; 01-JUN-2007 22:47:33; Bright; 36.0; 102; 24Alp Ser ; 2.60; 4250;occ; 72; 0;27467
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