

GOMOS Daily Report 28-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	29JUN2007 07:51:02
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START) (28JUN2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP) (29JUN2007 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)

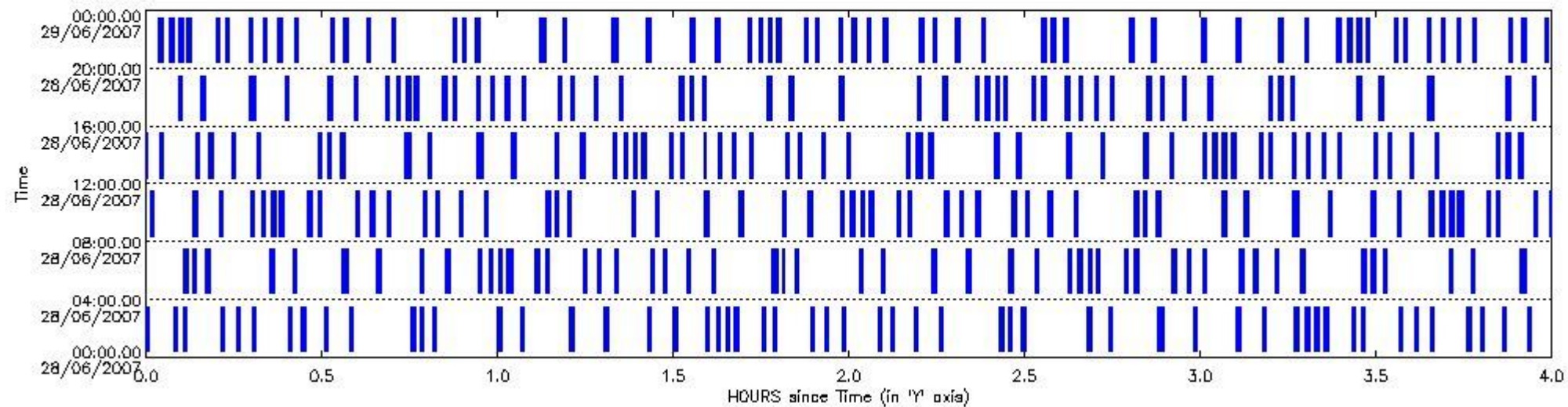
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

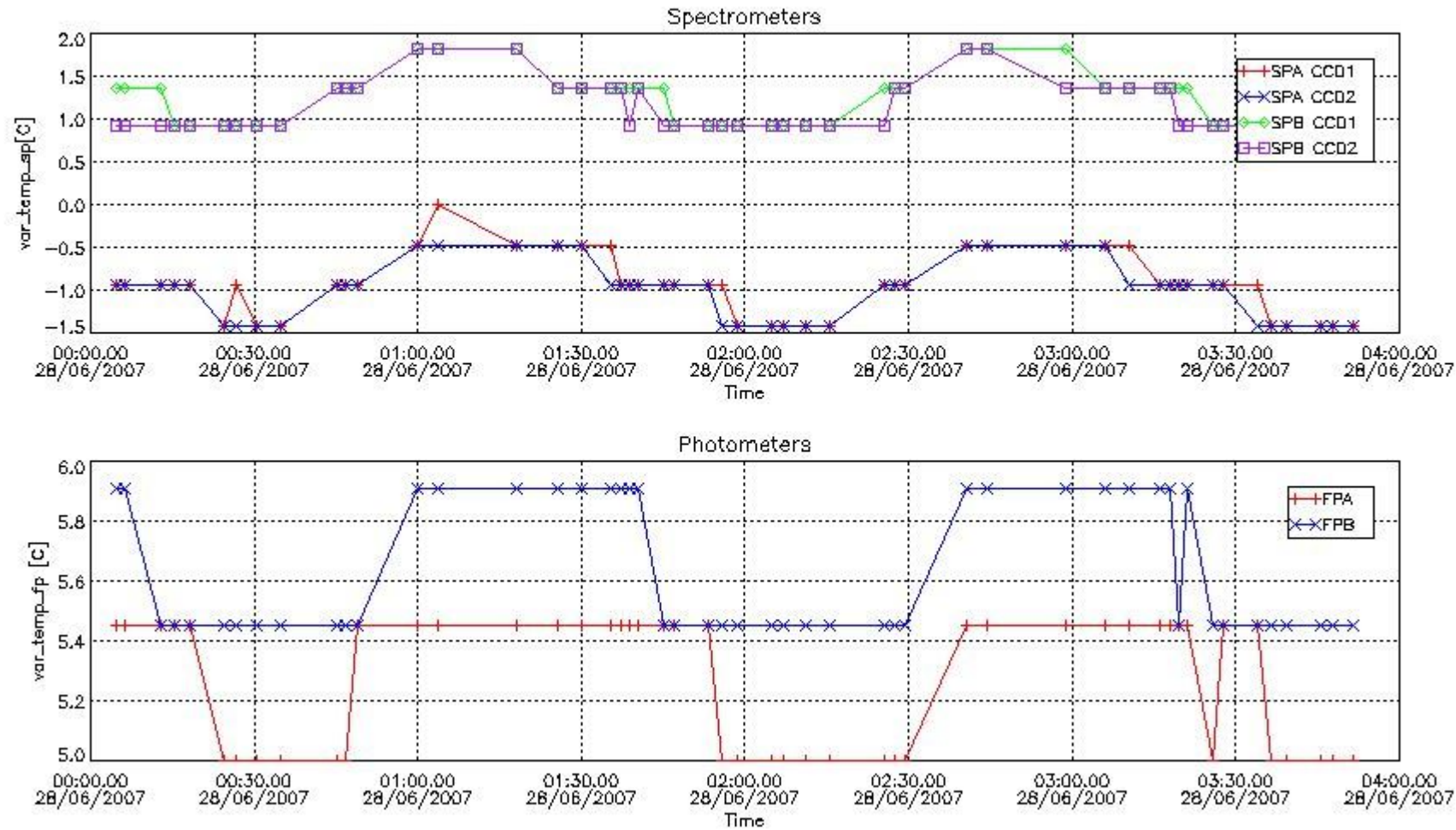
No missing products.

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_1PNPDE20070628_000436_000000362059_00231_27840_2534.N1	28-JUN-2007 00:04:36	Bright	36.000	86	35Eta Oph	2.4300	10200.	72	27840	No
2	GOM_TRA_1PNPDE20070628_000620_000000362059_00231_27840_2535.N1	28-JUN-2007 00:06:20	Bright	35.500	98	13Zet Oph	2.5710	30000.	71	27840	No
3	GOM_TRA_1PNPDE20070628_001246_000000382059_00231_27840_2536.N1	28-JUN-2007 00:12:46	Bright	37.500	59	55Alp Oph	2.0800	8900.0	75	27840	No
4	GOM_TRA_1PNPDE20070628_001519_000000372059_00231_27840_2537.N1	28-JUN-2007 00:15:19	Bright	36.500	127	27Bet Her	2.7810	4700.0	73	27840	No
5	GOM_TRA_1PNPDE20070628_001806_000000372059_00231_27840_2538.N1	28-JUN-2007 00:18:06	Bright	36.500	133	40Zet Her	2.8070	6000.0	73	27840	No
6	GOM_TRA_1PNPDE20070628_002419_000000372059_00231_27840_2539.N1	28-JUN-2007 00:24:19	Bright	37.000	130	23Bet Dra	2.7990	5800.0	74	27840	No
7	GOM_TRA_1PNPDE20070628_002632_000000362059_00231_27840_2540.N1	28-JUN-2007 00:26:32	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	27840	No
8	GOM_TRA_1PNPDE20070628_003025_000000362059_00231_27840_2541.N1	28-JUN-2007 00:30:25	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	27840	No
9	GOM_TRA_1PNPDE20070628_003446_000000332059_00231_27840_2542.N1	28-JUN-2007 00:34:46	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	27840	No
10	GOM_TRA_1PNPDE20070628_004505_000000552059_00231_27840_2543.N1	28-JUN-2007 00:45:05	Bright	55.000	160	23Gam Per	2.9300	4700.0	110	27840	No
11	GOM_TRA_1PNPDE20070628_004644_000000322059_00231_27840_2544.N1	28-JUN-2007 00:46:44	Bright	32.000	175	39Del Per	3.0100	19400.	64	27840	No
12	GOM_TRA_1PNPDE20070628_004853_000000372059_00231_27840_2545.N1	28-JUN-2007 00:48:53	Bright	36.500	79	26Bet Per	2.3100	13100.	73	27840	No

13	GOM_TRA_1PNPDE20070628_005958_000000472059_00231_27840_2546.N1	28-JUN-2007 00:59:58	Dark	47.000	94	92Alp Cet	2.5260	3100.0	94	27840	No
14	GOM_TRA_1PNPDE20070628_010349_000000372059_00231_27840_2547.N1	28-JUN-2007 01:03:49	Dark	36.500	165	34Gam Eri	2.9500	3200.0	73	27840	No
15	GOM_TRA_1PNPDE20070628_011809_000000422059_00232_27841_2652.N1	28-JUN-2007 01:18:09	Dark	41.500	9	Alp Eri	0.45300	24000.	83	27841	No
16	GOM_TRA_1PNPDE20070628_012531_000000412059_00232_27841_2653.N1	28-JUN-2007 01:25:31	Straylight	40.500	148	Alp Tuc	2.8780	4100.0	81	27841	No
17	GOM_TRA_1PNPDE20070628_012957_000000422059_00232_27841_2654.N1	28-JUN-2007 01:29:57	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	27841	No
18	GOM_TRA_1PNPDE20070628_013529_000000382059_00232_27841_2655.N1	28-JUN-2007 01:35:29	Straylight	37.500	147	Alp Ara	2.8770	26000.	75	27841	No
19	GOM_TRA_1PNPDE20070628_013717_000000412059_00232_27841_2656.N1	28-JUN-2007 01:37:17	Twi_and_stray	40.500	40	The Sco	1.8590	7100.0	81	27841	No
20	GOM_TRA_1PNPDE20070628_013857_000000412059_00232_27841_2657.N1	28-JUN-2007 01:38:57	Twi_and_stray	40.500	25	35Lam Sco	1.6200	28000.	81	27841	No
21	GOM_TRA_1PNPDE20070628_014020_000000512059_00232_27841_2658.N1	28-JUN-2007 01:40:20	Bright	51.000	116	19Del Sgr	2.7000	4100.0	102	27841	No
22	GOM_TRA_1PNPDE20070628_014512_000000372059_00232_27841_2659.N1	28-JUN-2007 01:45:12	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	27841	No
23	GOM_TRA_1PNPDE20070628_014656_000000362059_00232_27841_2660.N1	28-JUN-2007 01:46:56	Bright	35.500	98	13Zet Oph	2.5710	30000.	71	27841	No
24	GOM_TRA_1PNPDE20070628_015322_000000382059_00232_27841_2661.N1	28-JUN-2007 01:53:22	Bright	38.000	59	55Alp Oph	2.0800	8900.0	76	27841	No
25	GOM_TRA_1PNPDE20070628_015554_000000372059_00232_27841_2662.N1	28-JUN-2007 01:55:54	Bright	36.500	127	27Bet Her	2.7810	4700.0	73	27841	No
26	GOM_TRA_1PNPDE20070628_015842_000000362059_00232_27841_2663.N1	28-JUN-2007 01:58:42	Bright	35.500	133	40Zet Her	2.8070	6000.0	71	27841	No
27	GOM_TRA_1PNPDE20070628_020454_000000382059_00232_27841_2664.N1	28-JUN-2007 02:04:54	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	27841	No
28	GOM_TRA_1PNPDE20070628_020708_000000362059_00232_27841_2665.N1	28-JUN-2007 02:07:08	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	27841	No
29	GOM_TRA_1PNPDE20070628_021101_000000332059_00232_27841_2666.N1	28-JUN-2007 02:11:01	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	27841	No
30	GOM_TRA_1PNPDE20070628_021522_000000352059_00232_27841_2667.N1	28-JUN-2007 02:15:22	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	27841	No
31	GOM_TRA_1PNPDE20070628_022541_000000412059_00232_27841_2833.N1	28-JUN-2007 02:25:41	Bright	41.000	160	23Gam Per	2.9300	4700.0	82	27841	No
32	GOM_TRA_1PNPDE20070628_022719_000000352059_00232_27841_2834.N1	28-JUN-2007 02:27:19	Bright	34.500	175	39Del Per	3.0100	19400.	69	27841	No
33	GOM_TRA_1PNPDE20070628_022929_000000372059_00232_27841_2835.N1	28-JUN-2007 02:29:29	Bright	37.000	79	26Bet Per	2.3100	13100.	74	27841	No
34	GOM_TRA_1PNPDE20070628_024035_000000482059_00232_27841_2836.N1	28-JUN-2007 02:40:35	Dark	48.000	94	92Alp Cet	2.5260	3100.0	96	27841	No
35	GOM_TRA_1PNPDE20070628_024425_000000372059_00232_27841_2837.N1	28-JUN-2007 02:44:25	Dark	37.000	165	34Gam Eri	2.9500	3200.0	74	27841	No
36	GOM_TRA_1PNPDE20070628_025846_000000452059_00233_27842_2838.N1	28-JUN-2007 02:58:46	Dark	44.500	9	Alp Eri	0.45300	24000.	89	27842	No
37	GOM_TRA_1PNPDE20070628_030607_000000422059_00233_27842_2839.N1	28-JUN-2007 03:06:07	Straylight	42.000	148	Alp Tuc	2.8780	4100.0	84	27842	No
38	GOM_TRA_1PNPDE20070628_031034_000000432059_00233_27842_2840.N1	28-JUN-2007 03:10:34	Straylight	43.000	45	Alp Pav	1.9400	26000.	86	27842	No
39	GOM_TRA_1PNPDE20070628_031606_000000372059_00233_27842_2841.N1	28-JUN-2007 03:16:06	Straylight	37.000	147	Alp Ara	2.8770	26000.	74	27842	No
40	GOM_TRA_1PNPDE20070628_031753_000000422059_00233_27842_2842.N1	28-JUN-2007 03:17:53	Twi_and_stray	41.500	40	The Sco	1.8590	7100.0	83	27842	No
41	GOM_TRA_1PNPDE20070628_031933_000000432059_00233_27842_2843.N1	28-JUN-2007 03:19:33	Twi_and_stray	42.500	25	35Lam Sco	1.6200	28000.	85	27842	No
42	GOM_TRA_1PNPDE20070628_032056_000000522059_00233_27842_2844.N1	28-JUN-2007 03:20:56	Bright	52.000	116	19Del Sgr	2.7000	4100.0	104	27842	No
43	GOM_TRA_1PNPDE20070628_032548_000000362059_00233_27842_2845.N1	28-JUN-2007 03:25:48	Bright	35.500	86	35Eta Oph	2.4300	10200.	71	27842	No
44	GOM_TRA_1PNPDE20070628_032733_000000362059_00233_27842_2846.N1	28-JUN-2007 03:27:33	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	27842	No
45	GOM_TRA_1PNPDE20070628_033357_000000392059_00233_27842_2847.N1	28-JUN-2007 03:33:57	Bright	38.500	59	55Alp Oph	2.0800	8900.0	77	27842	No
46	GOM_TRA_1PNPDE20070628_033630_000000352059_00233_27842_2848.N1	28-JUN-2007 03:36:30	Bright	34.500	127	27Bet Her	2.7810	4700.0	69	27842	No
47	GOM_TRA_1PNPDE20070628_033918_000000352059_00233_27842_2849.N1	28-JUN-2007 03:39:18	Bright	34.500	133	40Zet Her	2.8070	6000.0	69	27842	No
48	GOM_TRA_1PNPDE20070628_034530_000000382059_00233_27842_2850.N1	28-JUN-2007 03:45:30	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	27842	No
49	GOM_TRA_1PNPDE20070628_034744_000000342059_00233_27842_2851.N1	28-JUN-2007 03:47:44	Bright	34.000	119	14Eta Dra	2.7270	4700.0	68	27842	No
50	GOM_TRA_1PNPDE20070628_035137_000000352059_00233_27842_2852.N1	28-JUN-2007 03:51:37	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	27842	No

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



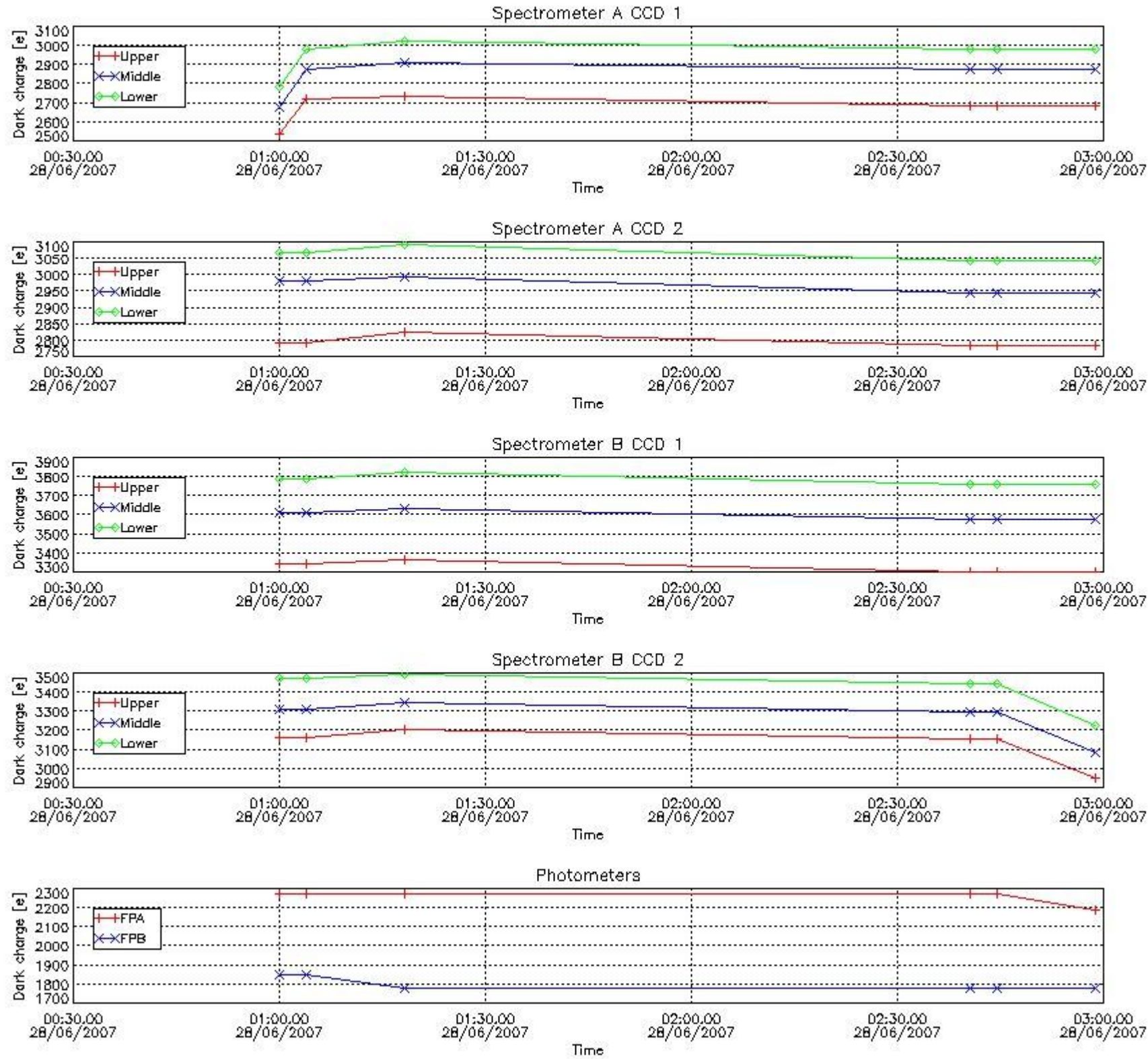
4. Overview of dark signal processing per product

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



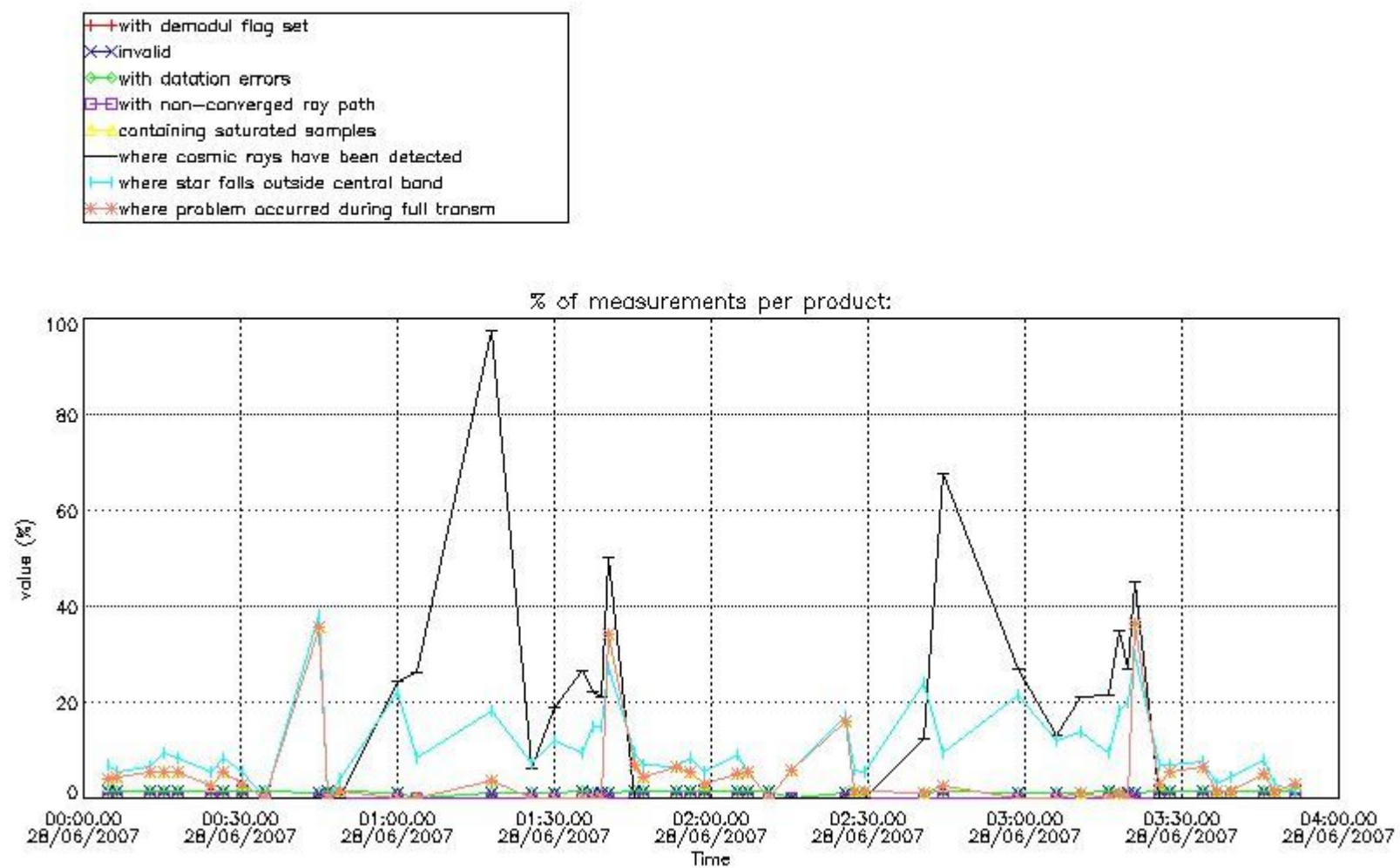
5. Demodulation flag and quality information monitoring

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.

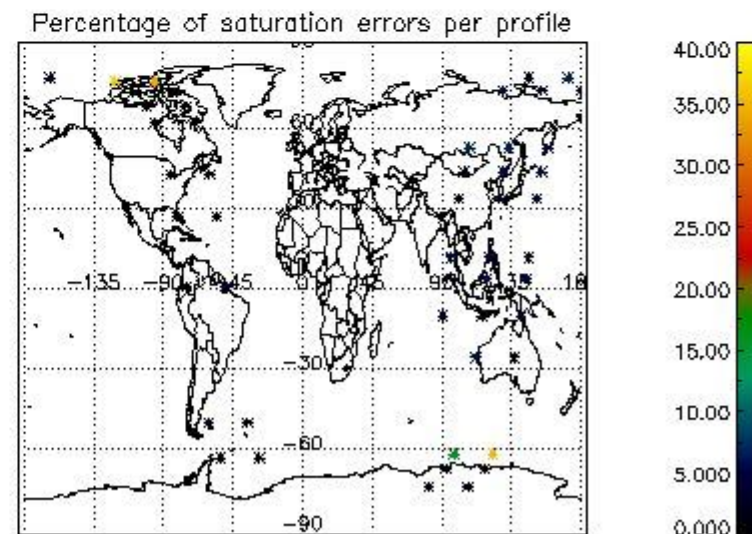
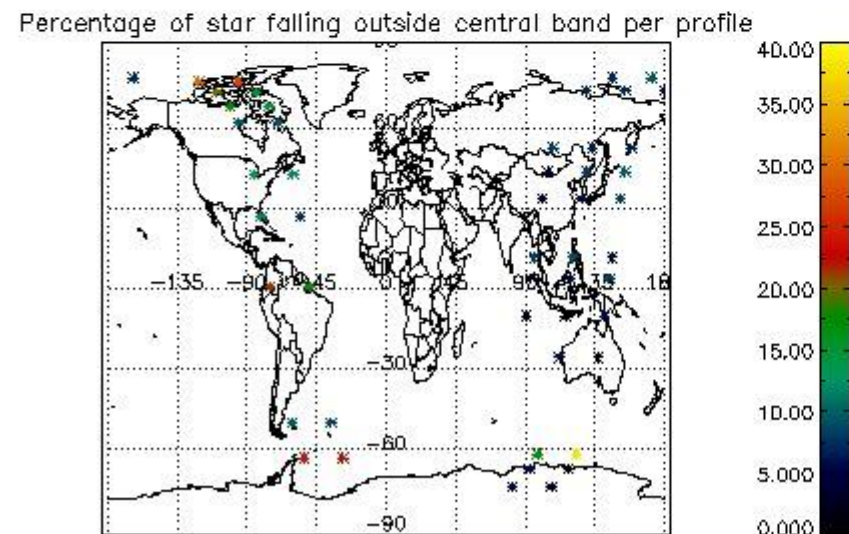
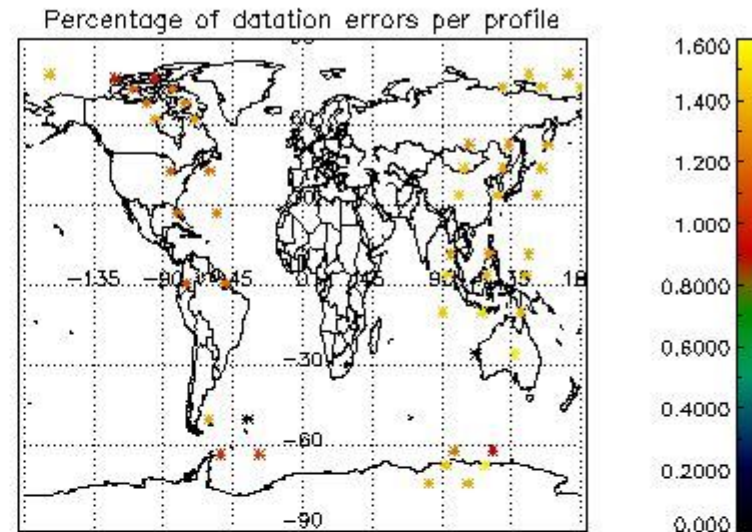
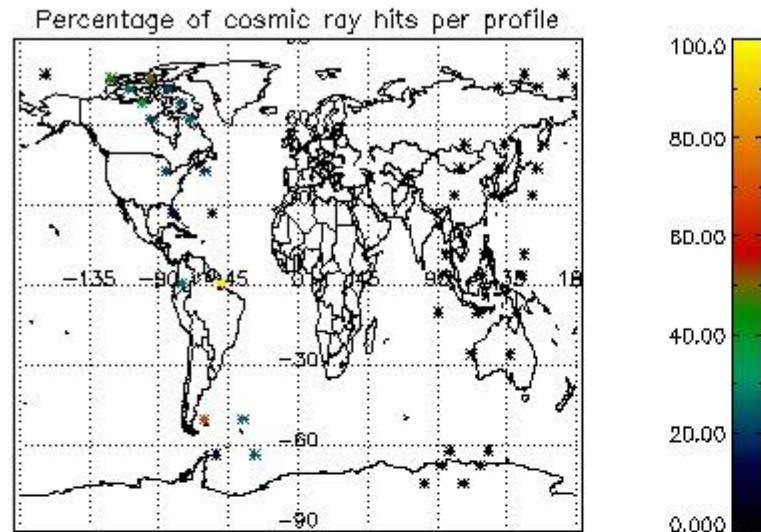
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	12.0000 %
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)



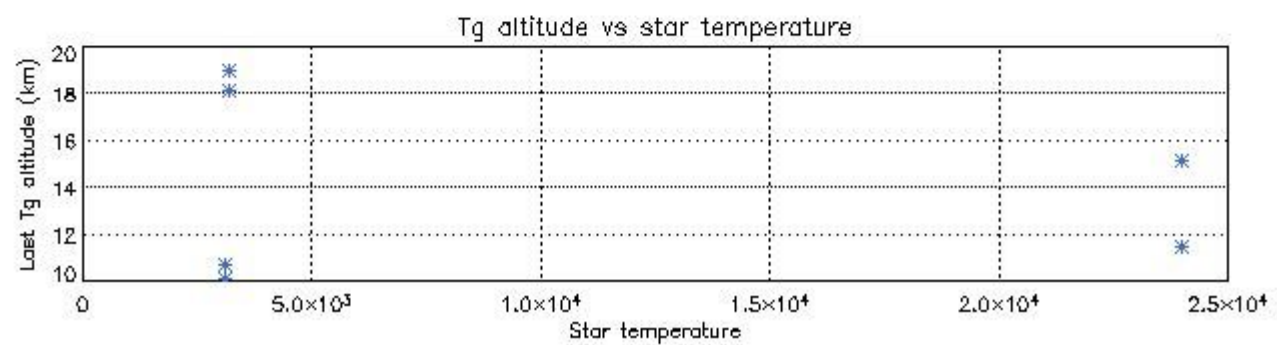
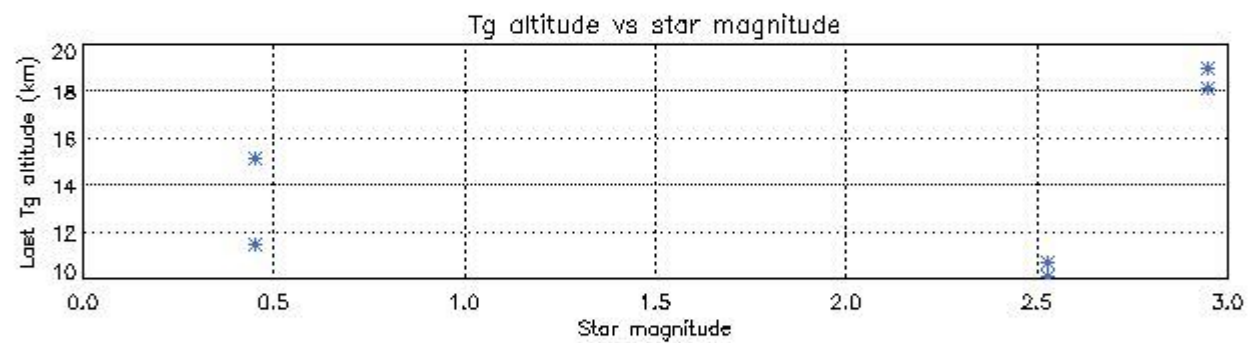
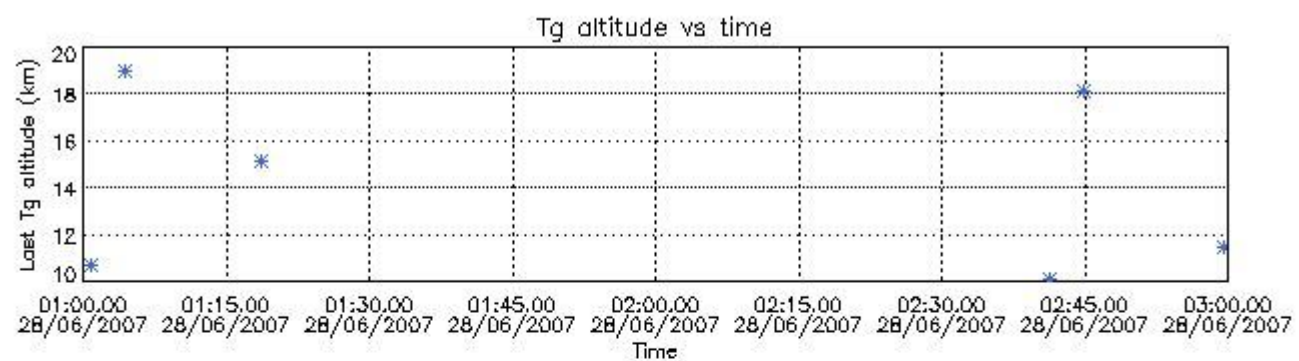
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.087	20.391	NaN
St. deviation:	3.8832	5.3819	NaN
Maximum:	18.944	30.598	NaN
Minimum:	10.108	3.7614	NaN
Number of data:	6.0000	34.000	NaN

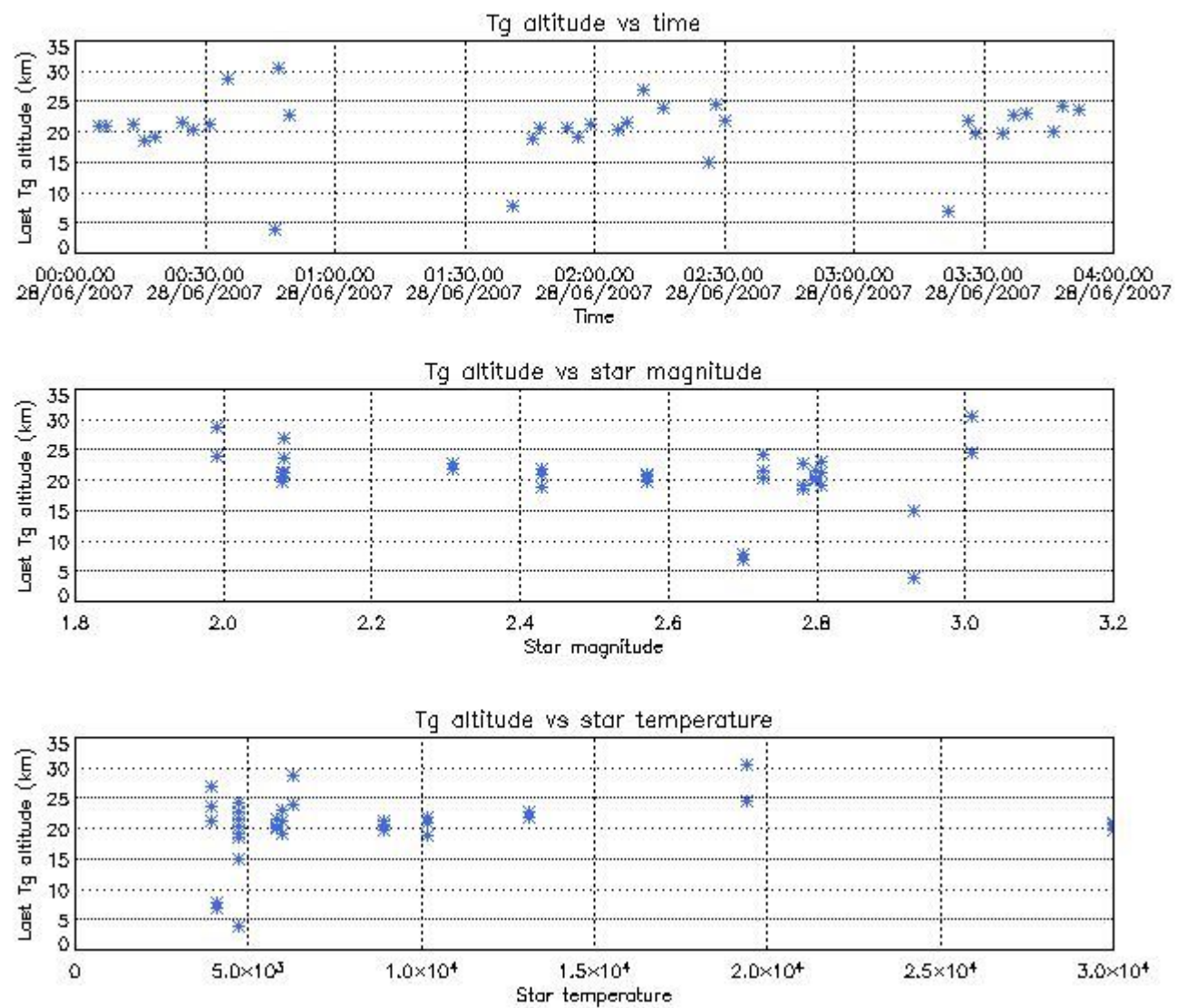
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

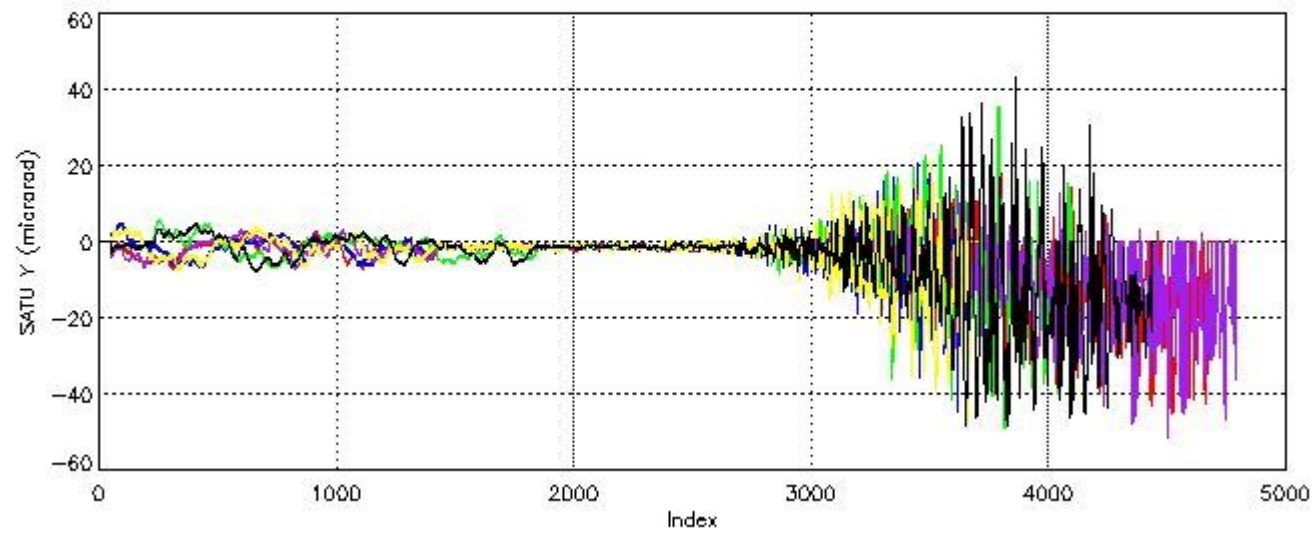
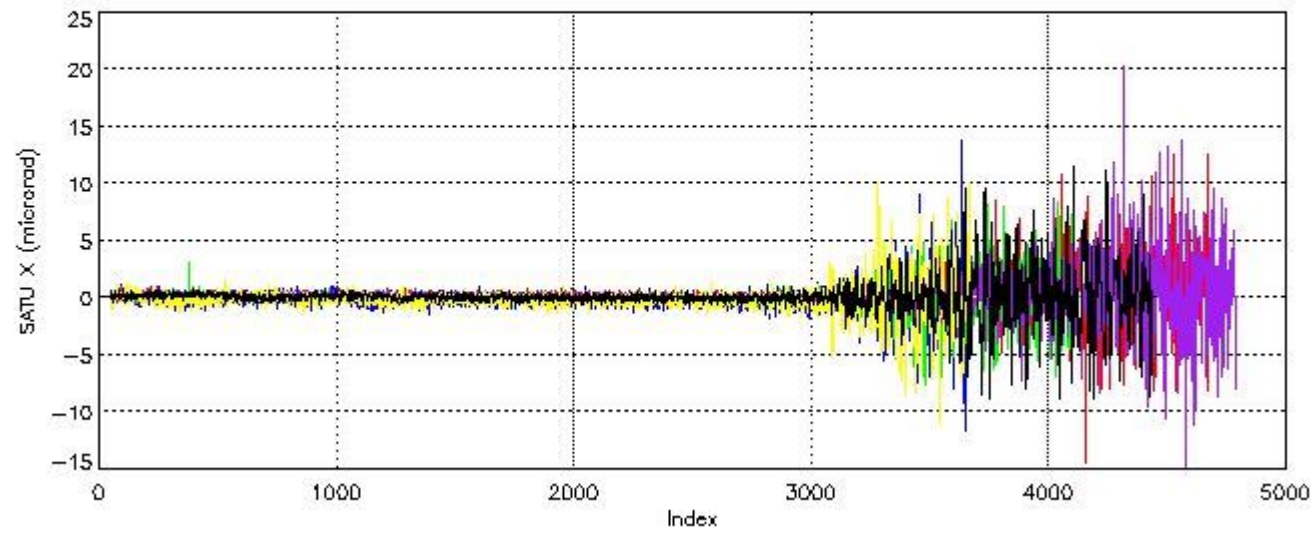


7. Star Acquisition and Tracking Unit (SATU)

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:	0.067959	-1.4345	0.098785	-1.2783
St. deviation:	0.28551	2.6860	0.79647	2.8852
Maximum:	3.1000	5.7000	6.6000	7.8000
Minimum:	-1.4000	-8.0000	-6.2000	-10.800

Number of data:	5350.0	5350.0	28300.	28300.
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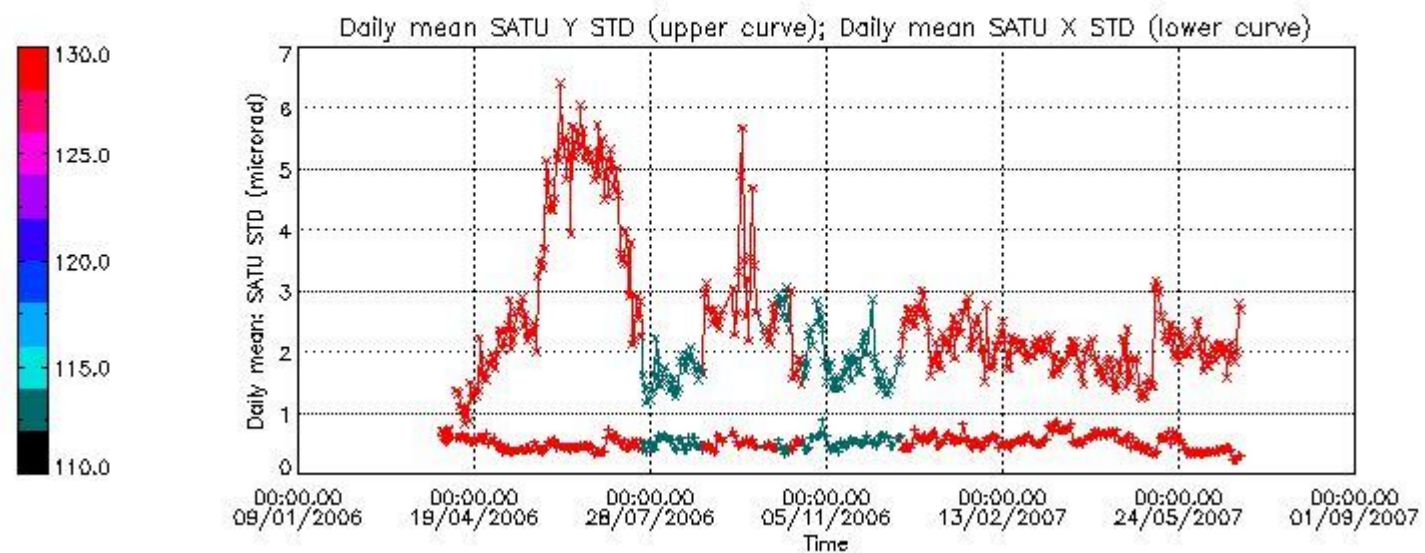
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

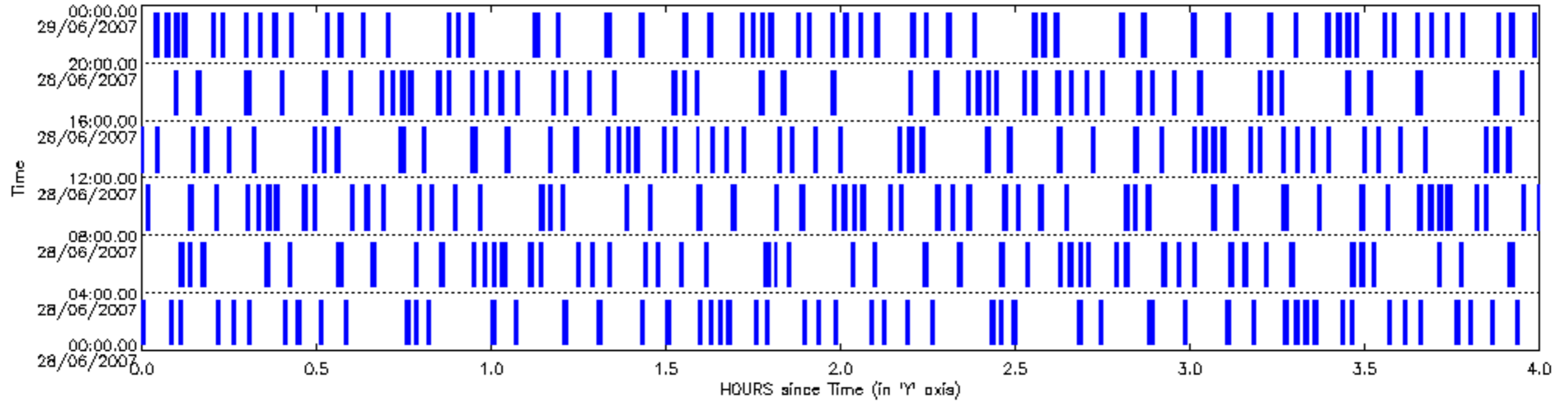
Lower curve: STD of SATU X axis

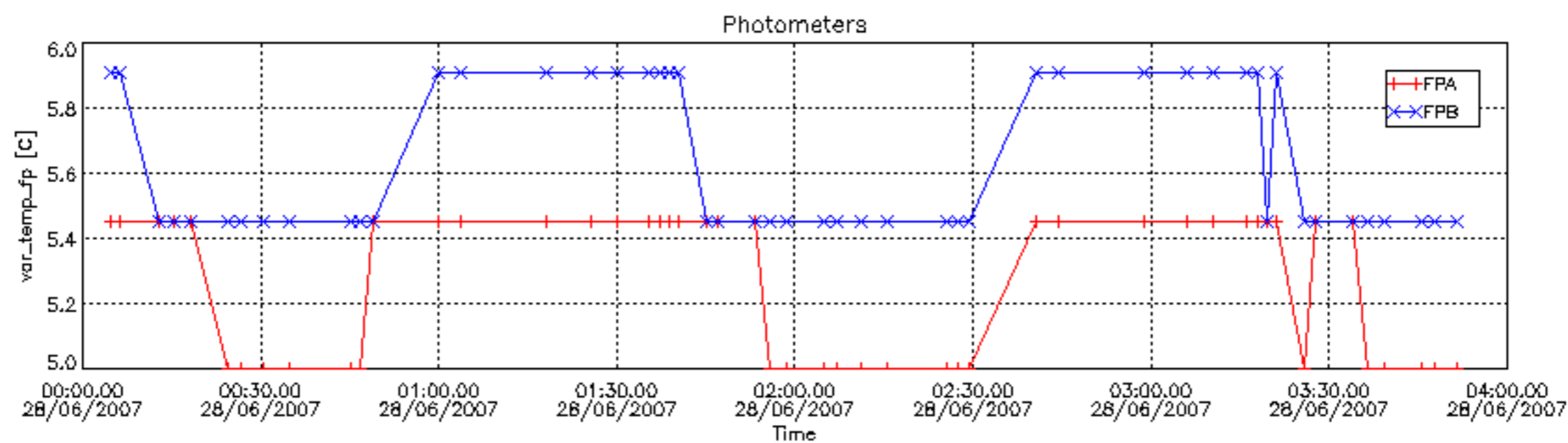
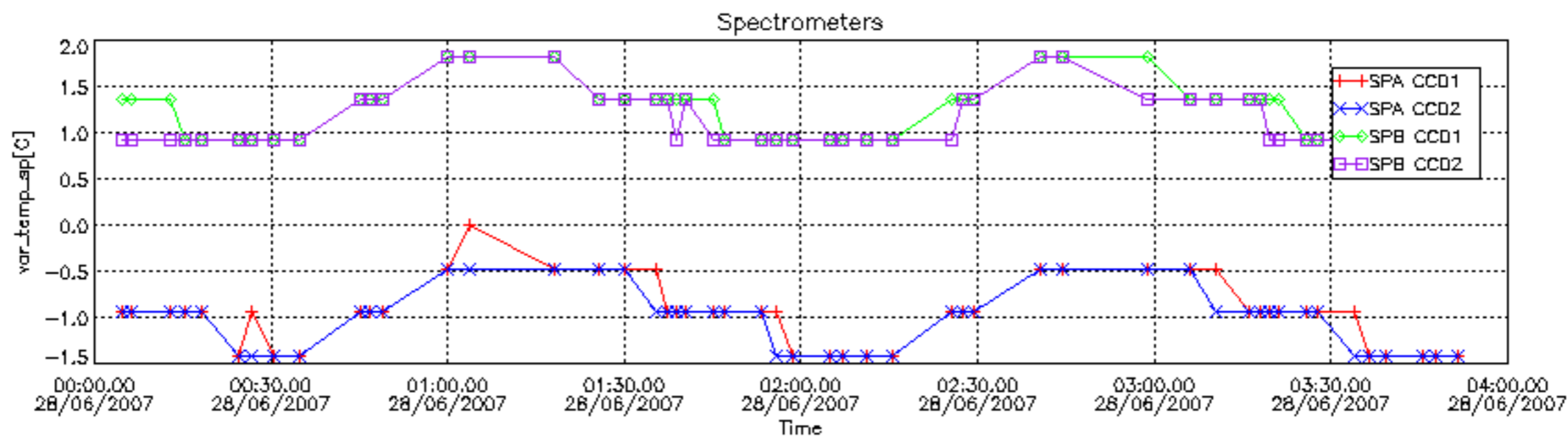


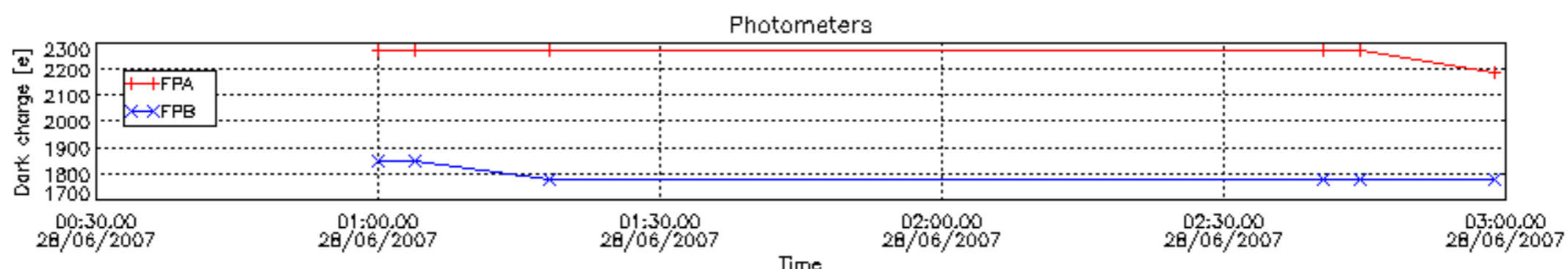
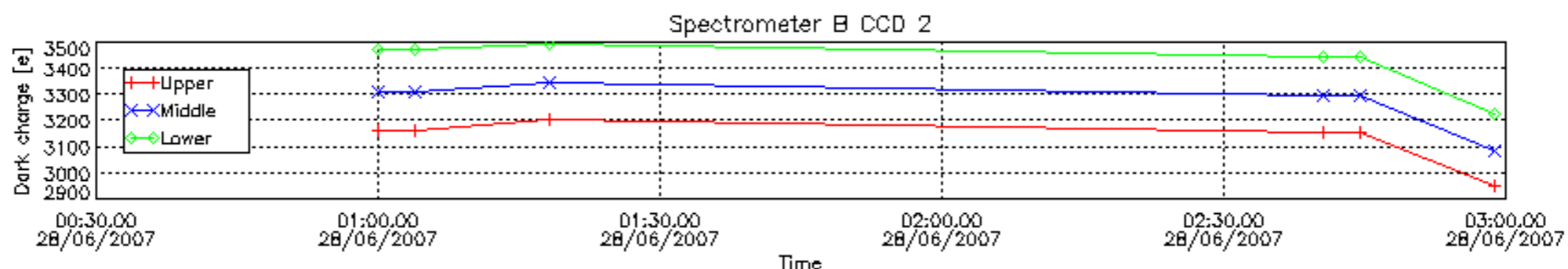
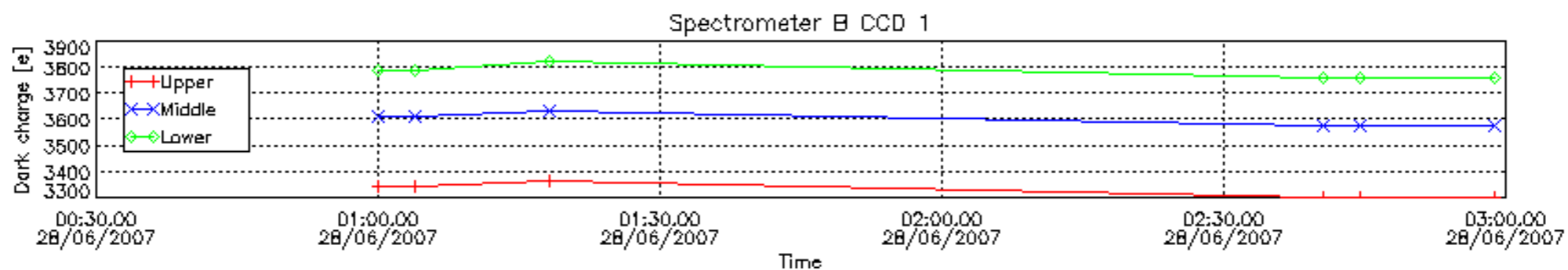
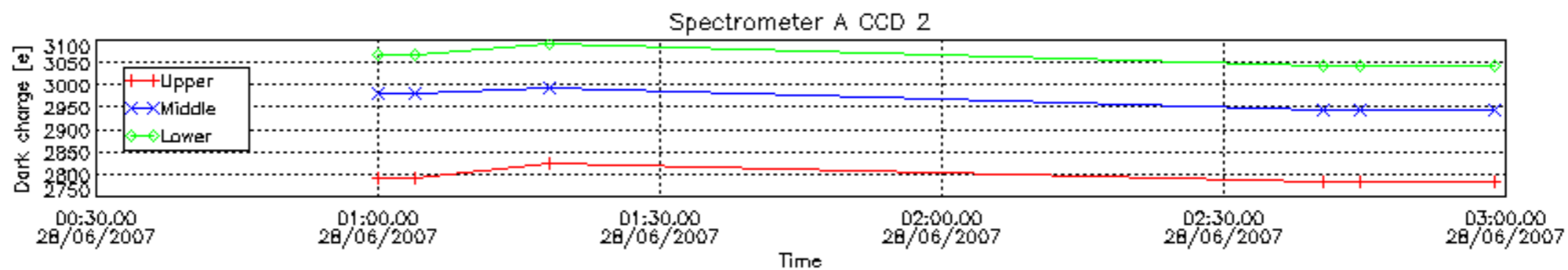
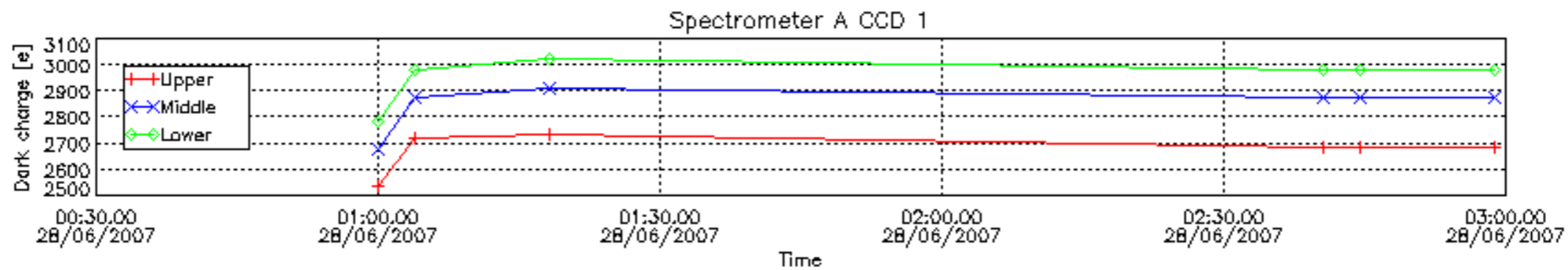
8. Auxiliary Data Files used for the production reported in section 2.4

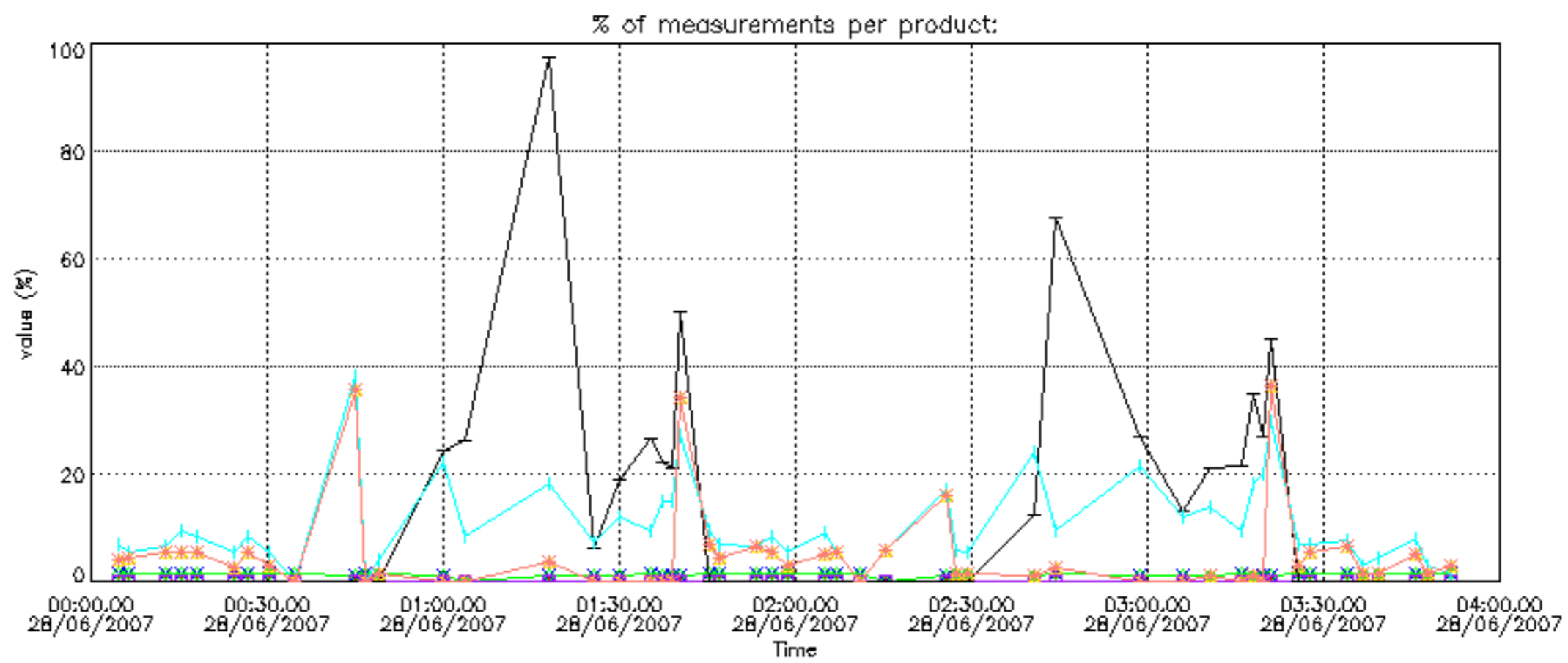
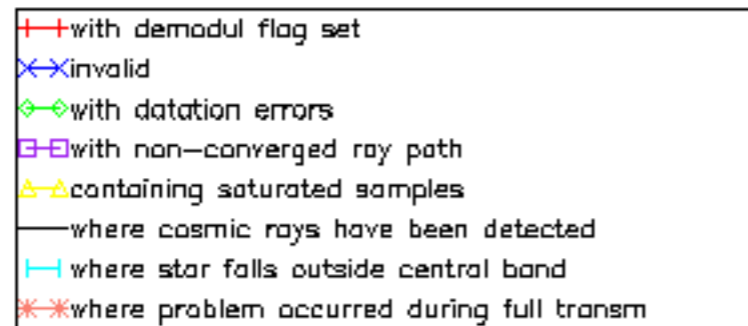
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	28-JUN-2007 00:04:36
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070618_075311_20070617_000000_20100101_000000	1	28-JUN-2007 00:04:36
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	28-JUN-2007 00:04:36
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	28-JUN-2007 00:04:36
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	28-JUN-2007 00:04:36
ECMWF_FILE	AUX_ECF_AXNECM20070627_062111_20070627_210000_20070628_090000	1	28-JUN-2007 00:04:36
OPTIONAL_ECMWF_FILE	MISSING	1	28-JUN-2007 00:04:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070627_214226_000057382059_00229_27838_3664.N1	1	28-JUN-2007 00:04:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070627_232323_000057382059_00230_27839_3665.N1	15	28-JUN-2007 01:18:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070628_010420_000038252059_00231_27840_3666.N1	31	28-JUN-2007 02:25:41

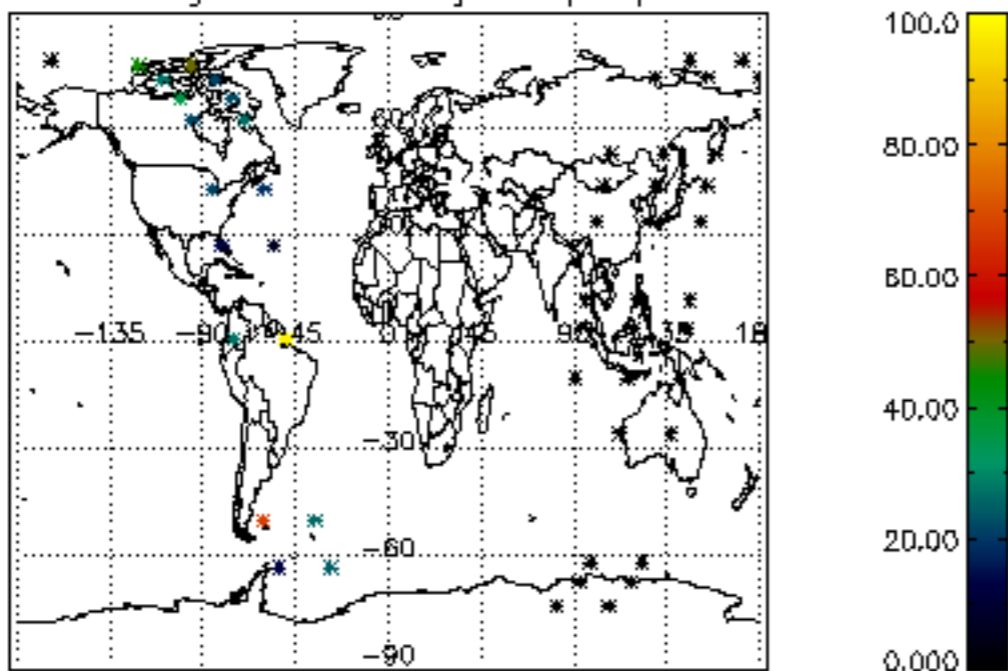




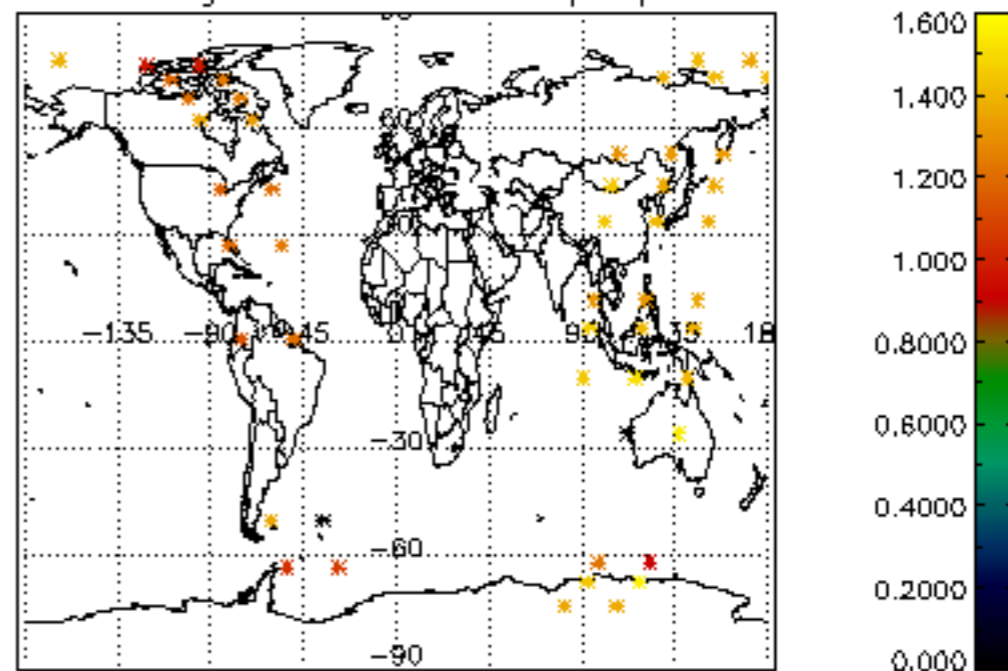




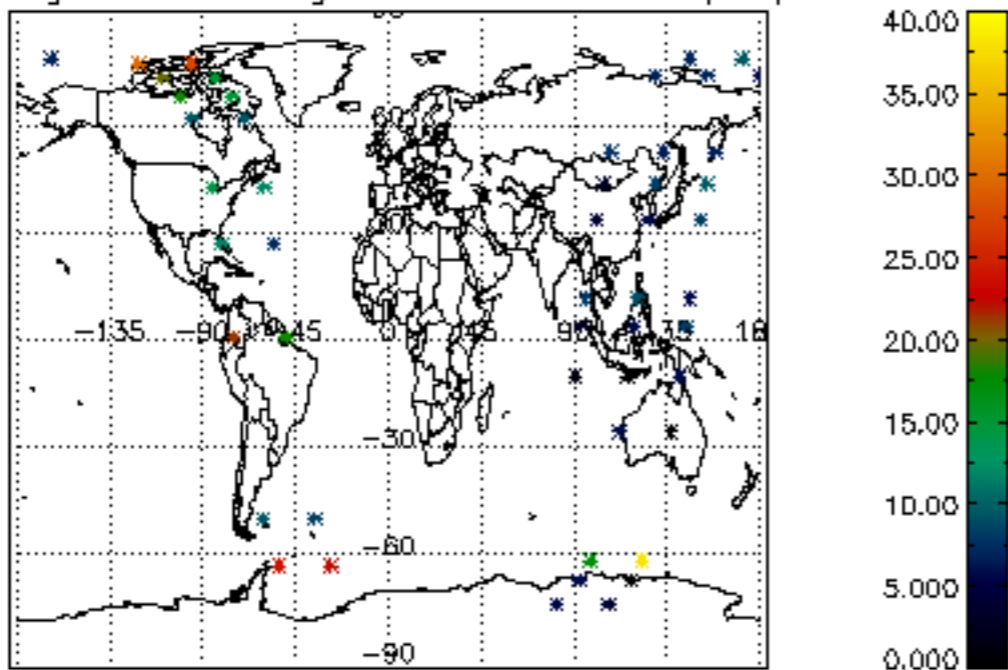
Percentage of cosmic ray hits per profile



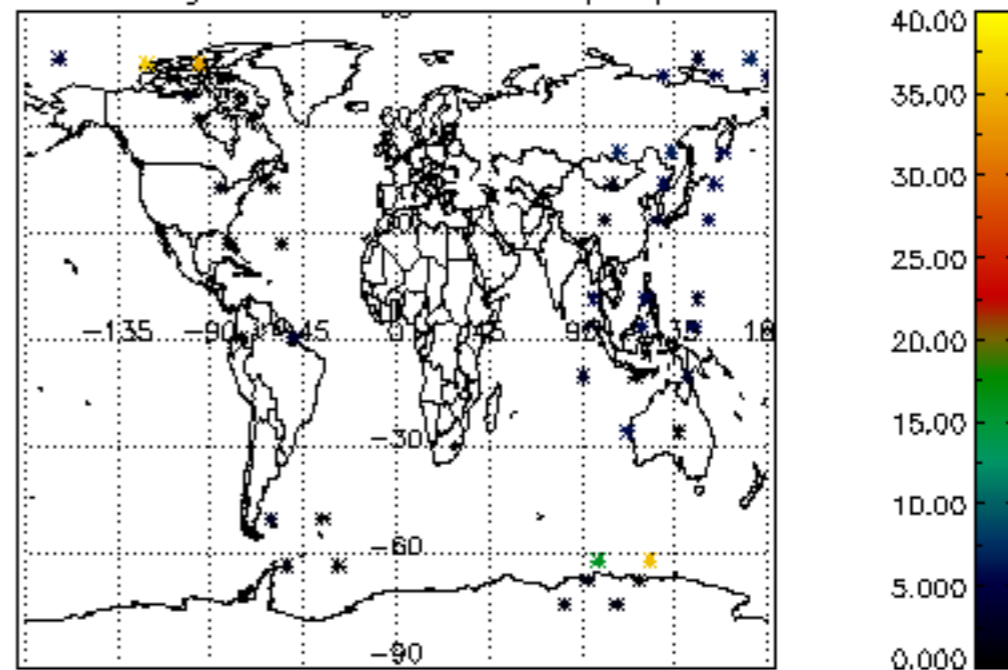
Percentage of datation errors per profile



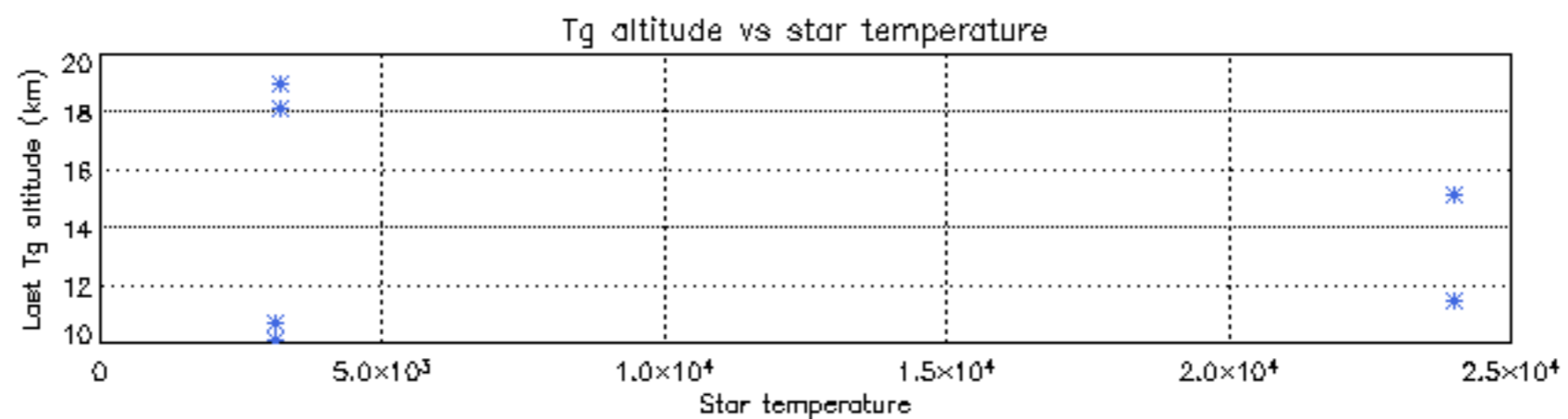
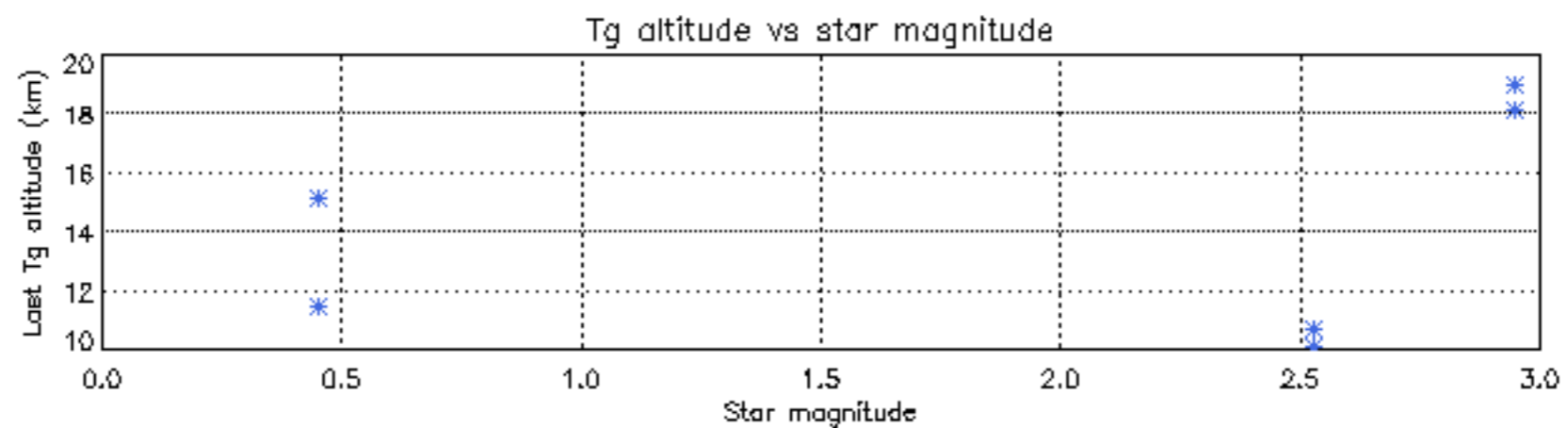
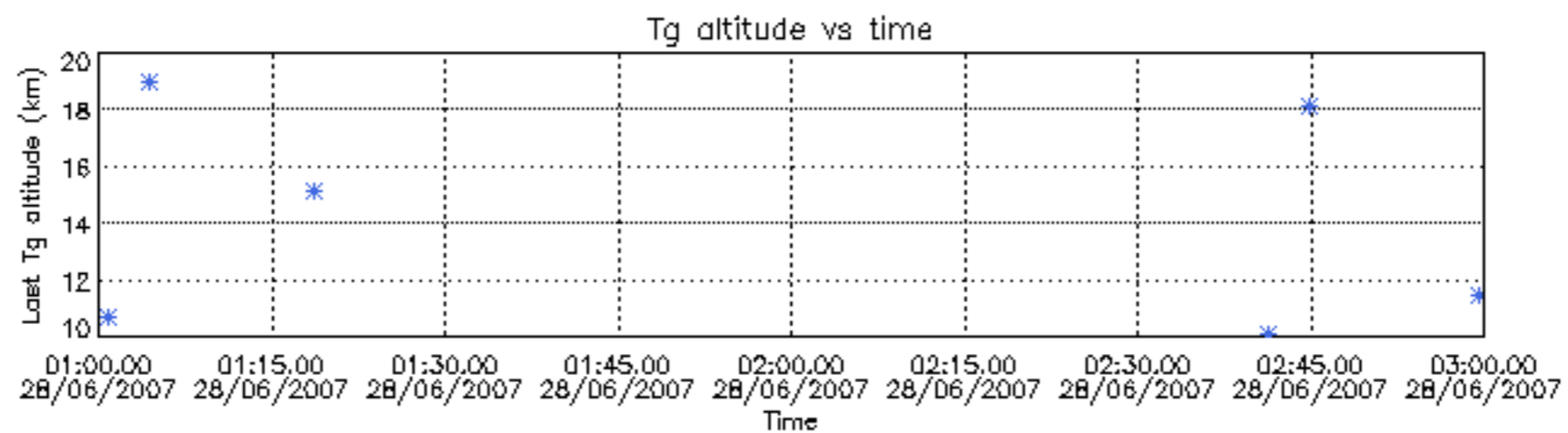
Percentage of star falling outside central band per profile

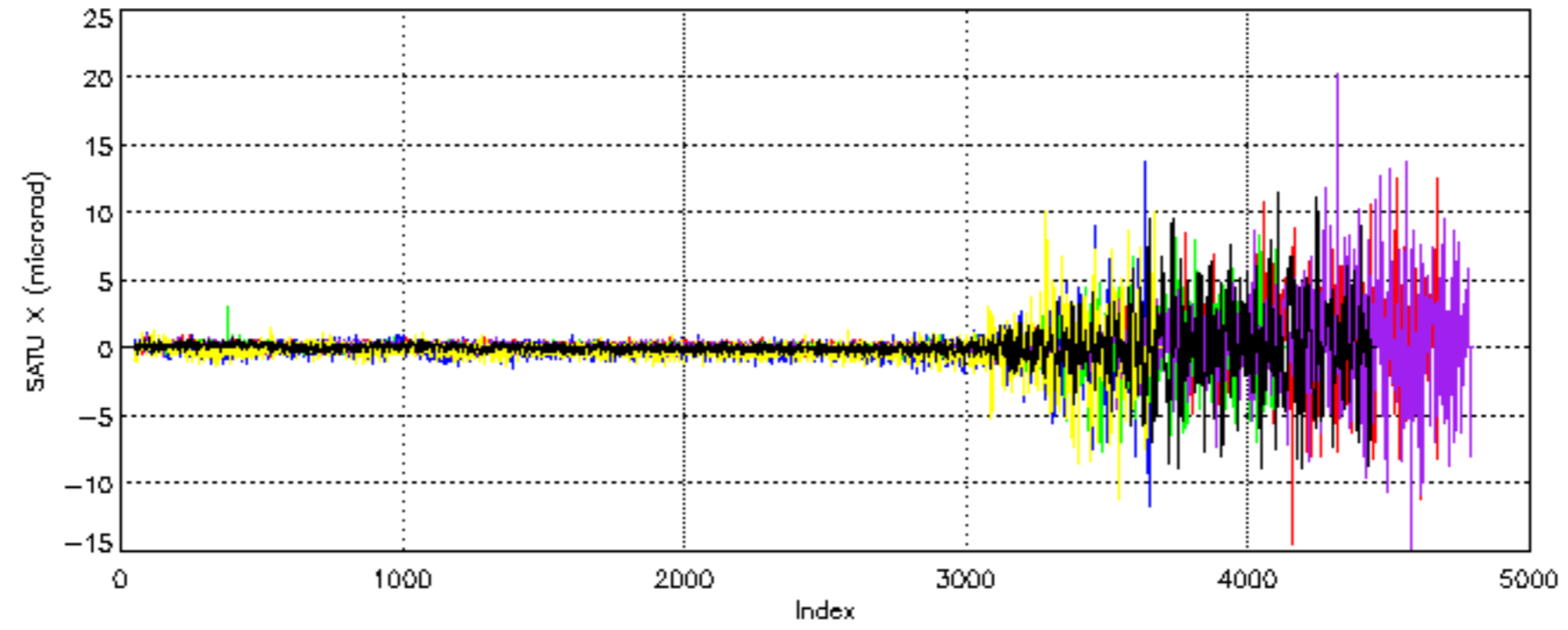


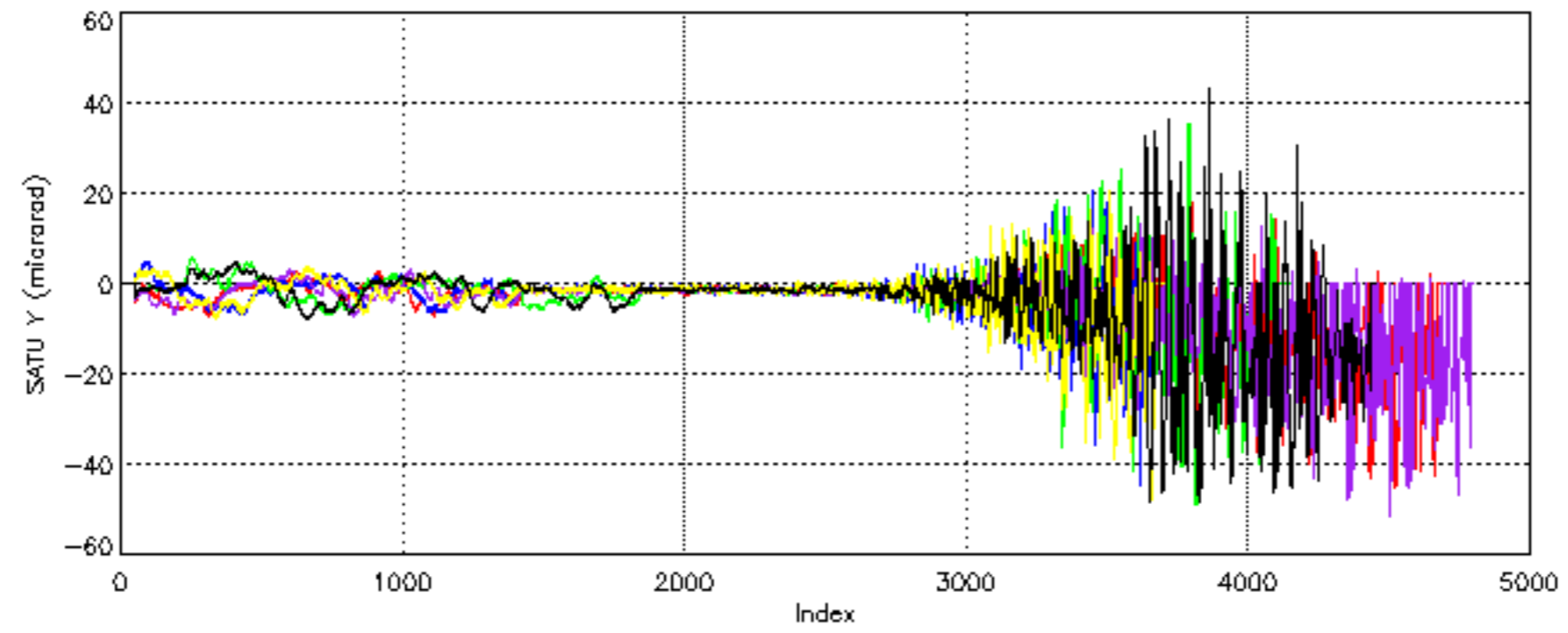
Percentage of saturation errors per profile

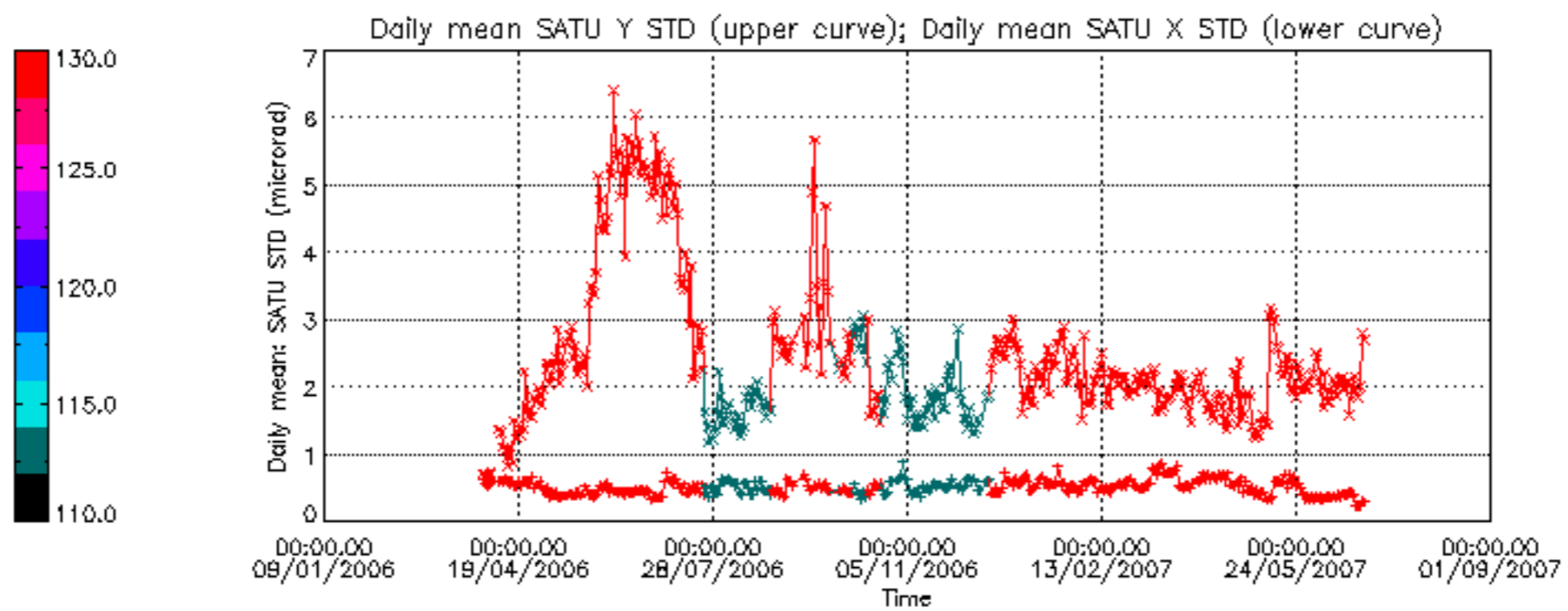


Tangent altitude at which the star is lost









/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
 17; 2368.4; 01-JUN-2007 22:53:27; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;27467
 18; 3003.0; 01-JUN-2007 23:04:01; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;27467
 19; 3165.8; 01-JUN-2007 23:06:44; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;27467
 20; 3446.7; 01-JUN-2007 23:11:25; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;27467
 21; 3928.8; 01-JUN-2007 23:19:27; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;27467
 22; 4394.9; 01-JUN-2007 23:27:13; Bright; 42.5; 53; 43Bet And ; 2.05; 3300;occ; 85; 0;27467

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 25; 3165.4; 06-JUN-2007 03:42:39; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;27527
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4; -1389.5; 06-JUN-2007 05:47:57; Dark ; 40.5; 105; 6Bet Ari ; 2.64; 8900;occ; 81; 0;27528
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19; 1706.1; 06-JUN-2007 06:39:32; Bright; 39.5; 98; 13Zet Oph ; 2.57; 30000;occ; 79; 0;27529
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21; 2015.0; 06-JUN-2007 06:44:41; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;27529
22; 2301.1; 06-JUN-2007 06:49:27; Bright; 40.5; 127; 27Bet Her ; 2.78; 4700;occ; 81; 0;27529
23; 2498.6; 06-JUN-2007 06:52:45; Bright; 42.0; 133; 40Zet Her ; 2.81; 6000;occ; 84; 0;27529
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7; 1598.6; 06-JUN-2007 20:02:32; Bright; 41.5; 86; 35Eta Oph ; 2.43; 10200;occ; 83; 0;27537
8; 1706.5; 06-JUN-2007 20:04:20; Bright; 39.0; 98; 13Zet Oph ; 2.57; 30000;occ; 78; 0;27537
9; 1834.9; 06-JUN-2007 20:06:29; Bright; 37.5; 120; 1Del Oph ; 2.73; 3200;occ; 75; 0;27537
10; 2015.0; 06-JUN-2007 20:09:29; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;27537
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12; 2495.5; 06-JUN-2007 20:17:29; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;27537
13; 2985.1; 06-JUN-2007 20:25:39; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;27537
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15; 3446.7; 06-JUN-2007 20:33:20; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27537
16; 3920.4; 06-JUN-2007 20:41:14; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;27537
17; 4262.8; 06-JUN-2007 20:46:56; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;27537
18; 4401.2; 06-JUN-2007 20:49:15; Dark ; 52.0; 53; 43Bet And ; 2.05; 3300;occ; 104; 0;27537
19; 4648.3; 06-JUN-2007 20:53:22; Dark ; 40.5; 105; 6Bet Ari ; 2.64; 8900;occ; 81; 0;27537

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2;	-347.0;	06-JUN-2007	21:10:43;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	27537
3;	-196.2;	06-JUN-2007	21:13:13;	Dark	;	46.5;	84;	Alp	Phe	;	2.40;	4500;	occ;	93;	0;	27537
4;	145.6;	06-JUN-2007	21:18:55;	Dark	;	50.0;	63;	Bet	Gru	;	2.15;	2800;	occ;	100;	0;	27538
5;	263.6;	06-JUN-2007	21:20:53;	Dark	;	47.0;	31;	Alp	Gru	;	1.73;	15200;	occ;	94;	0;	27538
6;	540.6;	06-JUN-2007	21:25:30;	Dark	;	44.0;	45;	Alp	Pav	;	1.94;	26000;	occ;	88;	0;	27538
7;	887.7;	06-JUN-2007	21:31:17;	Dark	;	39.0;	141;	Bet	Ara	;	2.84;	4600;	occ;	78;	0;	27538
8;	965.6;	06-JUN-2007	21:32:35;	Dark	;	39.5;	147;	Alp	Ara	;	2.88;	26000;	occ;	79;	0;	27538
9;	1068.6;	06-JUN-2007	21:34:18;	Dark	;	45.0;	40;	The	Sco	;	1.86;	7100;	occ;	90;	0;	27538
10;	1174.6;	06-JUN-2007	21:36:04;	Dark	;	46.0;	25;	35Lam	Sco	;	1.62;	28000;	occ;	92;	0;	27538
11;	1272.7;	06-JUN-2007	21:37:42;	Dark	;	45.0;	75;	26Eps	Sco	;	2.29;	4250;	occ;	90;	0;	27538
12;	1390.5;	06-JUN-2007	21:39:40;	Dark	;	42.5;	136;	23Tau	Sco	;	2.82;	30000;	occ;	85;	0;	27538
13;	1511.3;	06-JUN-2007	21:41:41;	Bright;		37.5;	80;	7Del	Sco	;	2.32;	30000;	occ;	75;	0;	27538
14;	1598.7;	06-JUN-2007	21:43:08;	Bright;		42.5;	86;	35Eta	Oph	;	2.43;	10200;	occ;	85;	0;	27538
15;	1706.5;	06-JUN-2007	21:44:56;	Bright;		38.5;	98;	13Zet	Oph	;	2.57;	30000;	occ;	77;	0;	27538
16;	1834.8;	06-JUN-2007	21:47:04;	Bright;		37.5;	120;	1Del	Oph	;	2.73;	3200;	occ;	75;	0;	27538
17;	2015.0;	06-JUN-2007	21:50:05;	Bright;		35.0;	102;	24Alp	Ser	;	2.60;	4250;	occ;	70;	0;	27538
18;	2298.6;	06-JUN-2007	21:54:48;	Bright;		40.0;	127;	27Bet	Her	;	2.78;	4700;	occ;	80;	0;	27538
19;	2495.1;	06-JUN-2007	21:58:05;	Bright;		40.5;	133;	40Zet	Her	;	2.81;	6000;	occ;	81;	0;	27538
20;	2984.7;	06-JUN-2007	22:06:14;	Bright;		51.0;	119;	14Eta	Dra	;	2.73;	4700;	occ;	102;	0;	27538
21;	3165.2;	06-JUN-2007	22:09:15;	Bright;		36.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	73;	0;	27538
22;	3446.6;	06-JUN-2007	22:13:56;	Bright;		35.5;	49;	1Alp	UMi	;	1.99;	6300;	occ;	71;	0;	27538
23;	3920.0;	06-JUN-2007	22:21:50;	Bright;		36.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	72;	0;	27538
24;	4262.7;	06-JUN-2007	22:27:32;	Bright;		54.0;	73;	57Gam1	And	;	2.26;	13100;	occ;	108;	0;	27538
25;	4401.4;	06-JUN-2007	22:29:51;	Dark	;	52.0;	53;	43Bet	And	;	2.05;	3300;	occ;	104;	0;	27538
26;	4648.5;	06-JUN-2007	22:33:58;	Dark	;	40.5;	105;	6Bet	Ari	;	2.64;	8900;	occ;	81;	0;	27538

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2;	-346.4;	06-JUN-2007	22:51:19;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	27538
3;	-195.5;	06-JUN-2007	22:53:50;	Dark	;	44.0;	84;	Alp	Phe	;	2.40;	4500;	occ;	88;	0;	27538
4;	146.5;	06-JUN-2007	22:59:32;	Dark	;	63.0;	63;	Bet	Gru	;	2.15;	2800;	occ;	126;	0;	27539
5;	264.5;	06-JUN-2007	23:01:30;	Dark	;	52.0;	31;	Alp	Gru	;	1.73;	15200;	occ;	104;	0;	27539
6;	541.3;	06-JUN-2007	23:06:07;	Dark	;	42.5;	45;	Alp	Pav	;	1.94;	26000;	occ;	85;	0;	27539
7;	888.0;	06-JUN-2007	23:11:53;	Dark	;	40.0;	141;	Bet	Ara	;	2.84;	4600;	occ;	80;	0;	27539
8;	966.0;	06-JUN-2007	23:13:11;	Dark	;	37.5;	147;	Alp	Ara	;	2.88;	26000;	occ;	75;	0;	27539
9;	1068.9;	06-JUN-2007	23:14:54;	Dark	;	44.0;	40;	The	Sco	;	1.86;	7100;	occ;	88;	0;	27539
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11;	1273.0;	06-JUN-2007	23:18:18;	Dark	;	43.5;	75;	26Eps	Sco	;	2.29;	4250;	occ;	87;	0;	27539
12;	1390.6;	06-JUN-2007	23:20:16;	Dark	;	45.5;	136;	23Tau	Sco	;	2.82;	30000;	occ;	91;	0;	27539
13;	1511.3;	06-JUN-2007	23:22:17;	Bright;		37.5;	80;	7Del	Sco	;	2.32;	30000;	occ;	75;	0;	27539
14;	1598.8;	06-JUN-2007	23:23:44;	Bright;		43.0;	86;	35Eta	Oph	;	2.43;	10200;	occ;	86;	0;	27539
15;	1706.6;	06-JUN-2007	23:25:32;	Bright;		40.0;	98;	13Zet	Oph	;	2.57;	30000;	occ;	80;	0;	27539
16;	1834.7;	06-JUN-2007	23:27:40;	Bright;		37.5;	120;	1Del	Oph	;	2.73;	3200;	occ;	75;	0;	27539
17;	2015.0;	06-JUN-2007	23:30:40;	Bright;		35.0;	102;	24Alp	Ser	;	2.60;	4250;	occ;	70;	0;	27539
18;	2298.4;	06-JUN-2007	23:35:24;	Bright;		40.0;	127;	27Bet	Her	;	2.78;	4700;	occ;	80;	0;	27539
19;	2494.7;	06-JUN-2007	23:38:40;	Bright;		42.0;	133;	40Zet	Her	;	2.81;	6000;	occ;	84;	0;	27539
20;	2984.6;	06-JUN-2007	23:46:50;	Bright;		37.0;	119;	14Eta	Dra	;	2.73;	4700;	occ;	74;	0;	27539
21;	3165.2;	06-JUN-2007	23:49:51;	Bright;		35.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	71;	0;	27539
22;	3446.7;	06-JUN-2007	23:54:32;	Bright;		32.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	64;	0;	27539
23;	3919.9;	07-JUN-2007	00:02:25;	Bright;		41.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	83;	0;	27539
24;	4263.2;	07-JUN-2007	00:08:09;	Bright;		36.0;	73;	57Gam1	And	;	2.26;	13100;	occ;	72;	0;	27539
25;	4401.5;	07-JUN-2007	00:10:27;	Dark	;	47.0;	53;	43Bet	And	;	2.05;	3300;	occ;	94;	0;	27539
26;	4648.9;	07-JUN-2007	00:14:34;	Dark	;	42.0;	105;	6Bet	Ari	;	2.64;	8900;	occ;	84;	0;	27539

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2;	-1773.9;	06-JUN-2007	07:22:08;	Bright;		37.0;	73;	57Gam1	And	;	2.26;	13100;	occ;	74;	0;	27529
3;	-1635.2;	06-JUN-2007	07:24:27;	Dark	;	46.5;	53;	43Bet	And	;	2.05;	3300;	occ;	93;	0;	27529
4;	-1389.3;	06-JUN-2007	07:28:33;	Dark	;	42.0;	105;	6Bet	Ari	;	2.64;	8900;	occ;	84;	0;	27529
5;	-597.6;	06-JUN-2007	07:41:45;	Dark	;	50.5;	52;	16Bet	Cet	;	2.04;	4500;	occ;	101;	0;	27529
6;	-351.1;	06-JUN-2007	07:45:51;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	27529
7;	-201.2;	06-JUN-2007	07:48:21;	Dark	;	47.0;	84;	Alp	Phe	;	2.40;	4500;	occ;	94;	0;	27529
8;	138.5;	06-JUN-2007	07:54:01;	Dark	;	64.0;	63;	Bet	Gru	;	2.15;	2800;	occ;	128;	0;	27530
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