

GOMOS Daily Report 28-AUG-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	30AUG2007 05:38:06
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (28AUG2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (29AUG2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	48
Nb of prods with errors	1

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

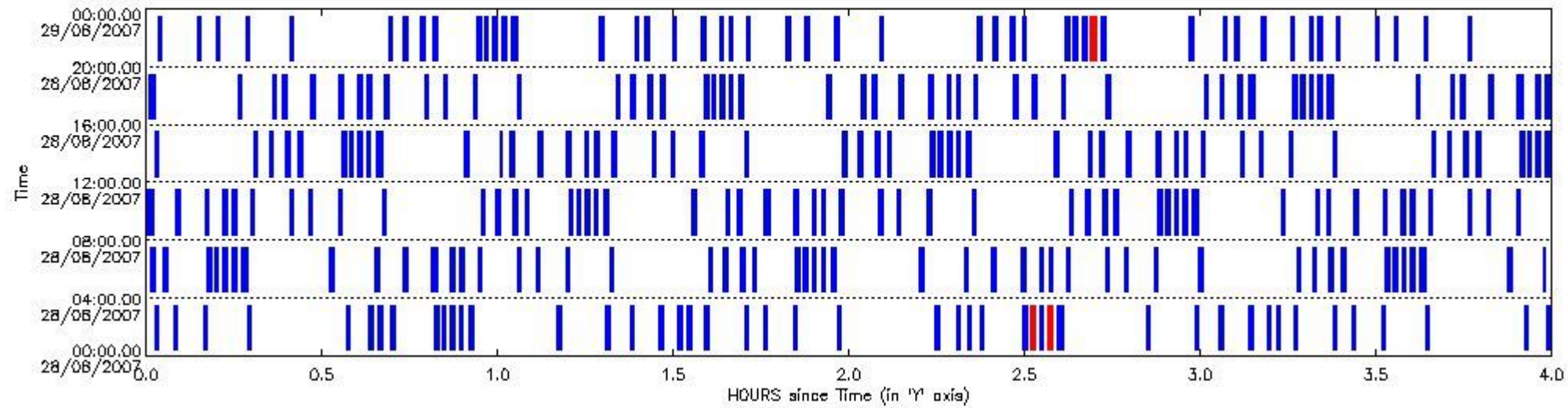
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

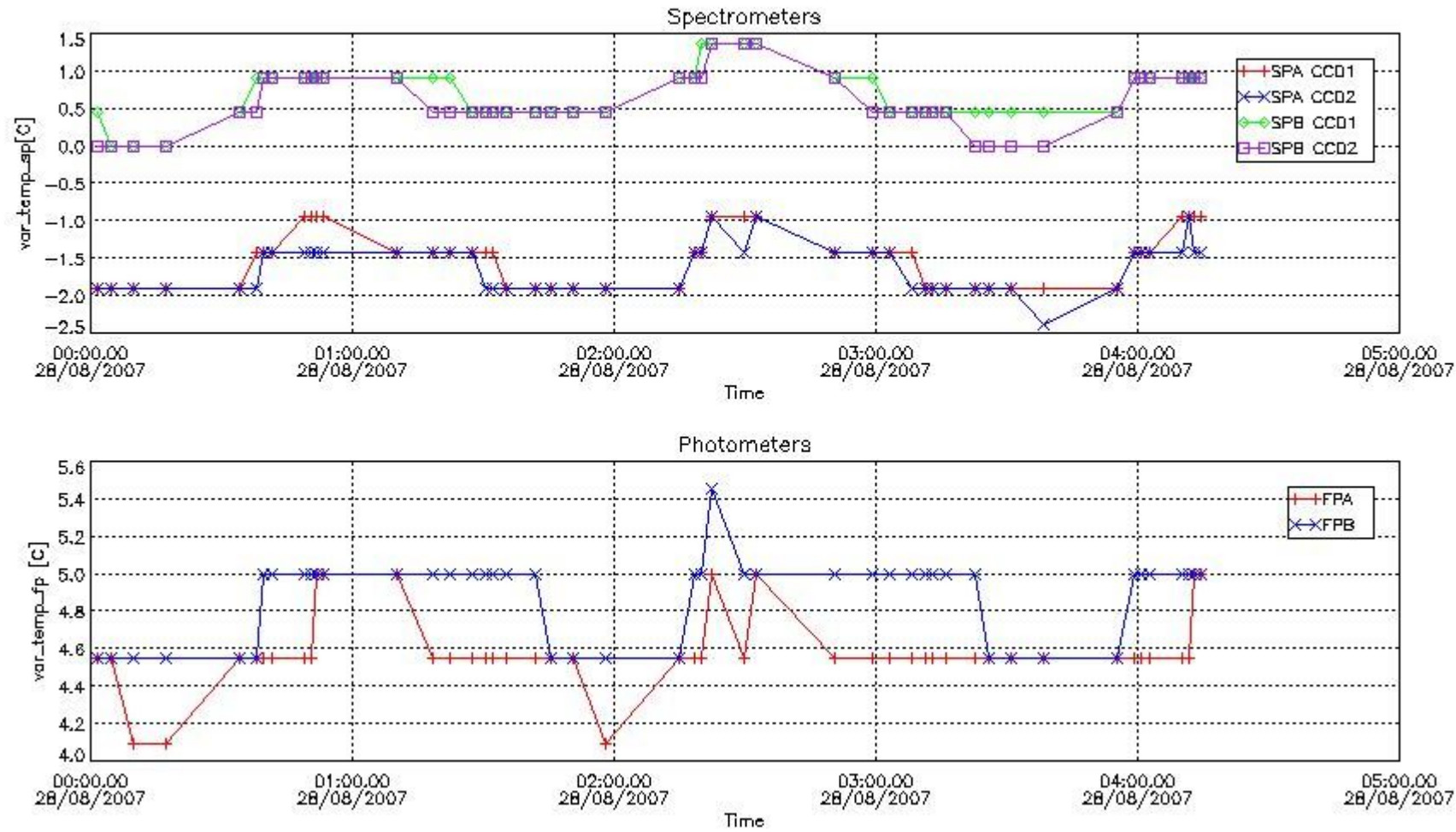
UTC start time	Star name	Star ID	Orbit
28-AUG-2007 02:30:55	24Omi2CMa	179	28714
28-AUG-2007 02:33:53	1ZetCMa	177	28714
28-AUG-2007 22:41:11	1ZetCMa	177	28726

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_1PNPDE20070828_000131_000000362061_00102_28713_3760.N1	28-AUG-2007 00:01:31	Bright	35.500	92	53Eps Cyg	2.5000	4500.0	71	28713	No
2	GOM_TRA_1PNPDE20070828_000443_000000352061_00102_28713_3761.N1	28-AUG-2007 00:04:43	Bright	35.000	19	50Alp Cyg	1.2460	10500.	70	28713	No
3	GOM_TRA_1PNPDE20070828_000948_000000362061_00102_28713_3762.N1	28-AUG-2007 00:09:48	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	28713	No
4	GOM_TRA_1PNPDE20070828_001720_000000352061_00102_28713_3763.N1	28-AUG-2007 00:17:20	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	28713	No
5	GOM_TRA_1PNPDE20070828_003408_000000362061_00102_28713_3764.N1	28-AUG-2007 00:34:08	Bright	36.000	24	66Alp Gem	1.5800	10200.	72	28713	No
6	GOM_TRA_1PNPDE20070828_003752_000000452061_00102_28713_3765.N1	28-AUG-2007 00:37:52	Twilight	45.000	151	13Mu Gem	2.8900	3000.0	90	28713	No
7	GOM_TRA_1PNPDE20070828_003934_000000482061_00102_28713_3766.N1	28-AUG-2007 00:39:34	Twilight	48.000	44	24Gam Gem	1.9280	11000.	96	28713	No
8	GOM_TRA_1PNPDE20070828_004141_000000472061_00102_28713_3767.N1	28-AUG-2007 00:41:41	Twilight	47.000	8	10Alp CMI	0.40000	6500.0	94	28713	No

9	GOM_TRA_1PNPDE20070828_004903_000000522061_00102_28713_3903.N1	28-AUG-2007 00:49:03	Dark	52.000	1	9Alp CMa	-1.4400	11000.	104	28713	No
10	GOM_TRA_1PNPDE20070828_005026_000000402061_00102_28713_3904.N1	28-AUG-2007 00:50:26	Dark	39.500	179	24Omi2CMa	3.0320	24000.	79	28713	No
11	GOM_TRA_1PNPDE20070828_005154_000000432061_00102_28713_3905.N1	28-AUG-2007 00:51:54	Dark	42.500	23	21Eps CMa	1.5020	26000.	85	28713	No
12	GOM_TRA_1PNPDE20070828_005324_000000412061_00102_28713_3906.N1	28-AUG-2007 00:53:24	Dark	40.500	177	1Zet CMa	3.0220	26000.	81	28713	No
13	GOM_TRA_1PNPDE20070828_011006_000000452061_00103_28714_3907.N1	28-AUG-2007 01:10:06	Dark	44.500	9	Alp Eri	0.45300	24000.	89	28714	No
14	GOM_TRA_1PNPDE20070828_011829_000000402061_00103_28714_3908.N1	28-AUG-2007 01:18:29	Straylight	40.000	31	Alp Gru	1.7340	15200.	80	28714	No
15	GOM_TRA_1PNPDE20070828_012232_000000472061_00103_28714_3909.N1	28-AUG-2007 01:22:32	Straylight	46.500	18	24Alp PsA	1.1660	9700.0	93	28714	No
16	GOM_TRA_1PNPDE20070828_012732_000000482061_00103_28714_3910.N1	28-AUG-2007 01:27:32	Bright	48.000	142	49Del Cap	2.8500	8900.0	96	28714	No
17	GOM_TRA_1PNPDE20070828_013044_000000392061_00103_28714_3911.N1	28-AUG-2007 01:30:44	Bright	39.000	154	22Bet Aqr	2.8990	5700.0	78	28714	No
18	GOM_TRA_1PNPDE20070828_013219_000000422061_00103_28714_3912.N1	28-AUG-2007 01:32:19	Bright	41.500	162	34Alp Aqr	2.9440	5350.0	83	28714	No
19	GOM_TRA_1PNPDE20070828_013521_000000402061_00103_28714_3913.N1	28-AUG-2007 01:35:21	Bright	39.500	61	8Eps Peg	2.1000	3900.0	79	28714	No
20	GOM_TRA_1PNPDE20070828_014207_000000372061_00103_28714_3914.N1	28-AUG-2007 01:42:07	Bright	37.000	92	53Eps Cyg	2.5000	4500.0	74	28714	No
21	GOM_TRA_1PNPDE20070828_014518_000000382061_00103_28714_3915.N1	28-AUG-2007 01:45:18	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	28714	No
22	GOM_TRA_1PNPDE20070828_015024_000000362061_00103_28714_3916.N1	28-AUG-2007 01:50:24	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	28714	No
23	GOM_TRA_1PNPDE20070828_015756_000000342061_00103_28714_3917.N1	28-AUG-2007 01:57:56	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	28714	No
24	GOM_TRA_1PNPDE20070828_021444_000000472061_00103_28714_3918.N1	28-AUG-2007 02:14:44	Bright	46.500	24	66Alp Gem	1.5800	10200.	93	28714	No
25	GOM_TRA_1PNPDE20070828_021828_000000342061_00103_28714_3919.N1	28-AUG-2007 02:18:28	Twilight	34.000	151	13Mu Gem	2.8900	3000.0	68	28714	No
26	GOM_TRA_1PNPDE20070828_022010_000000432061_00103_28714_3920.N1	28-AUG-2007 02:20:10	Twilight	43.000	44	24Gam Gem	1.9280	11000.	86	28714	No
27	GOM_TRA_1PNPDE20070828_022217_000000402061_00103_28714_4041.N1	28-AUG-2007 02:22:17	Twilight	39.500	8	10Alp CMi	0.40000	6500.0	79	28714	Yes
28	GOM_TRA_1PNPDE20070828_022939_000000472061_00103_28714_4042.N1	28-AUG-2007 02:29:39	Dark	46.500	1	9Alp CMa	-1.4400	11000.	93	28714	No
29	GOM_TRA_1PNPDE20070828_023231_000000442061_00103_28714_4043.N1	28-AUG-2007 02:32:31	Dark	43.500	23	21Eps CMa	1.5020	26000.	87	28714	No
30	GOM_TRA_1PNPDE20070828_025042_000000452061_00104_28715_4044.N1	28-AUG-2007 02:50:42	Dark	45.000	9	Alp Eri	0.45300	24000.	90	28715	No
31	GOM_TRA_1PNPDE20070828_025906_000000372061_00104_28715_4045.N1	28-AUG-2007 02:59:06	Straylight	37.000	31	Alp Gru	1.7340	15200.	74	28715	No
32	GOM_TRA_1PNPDE20070828_030308_000000462061_00104_28715_4046.N1	28-AUG-2007 03:03:08	Straylight	46.000	18	24Alp PsA	1.1660	9700.0	92	28715	No
33	GOM_TRA_1PNPDE20070828_030808_000000512061_00104_28715_4047.N1	28-AUG-2007 03:08:08	Bright	50.500	142	49Del Cap	2.8500	8900.0	101	28715	No
34	GOM_TRA_1PNPDE20070828_031120_000000392061_00104_28715_4048.N1	28-AUG-2007 03:11:20	Bright	39.000	154	22Bet Aqr	2.8990	5700.0	78	28715	No
35	GOM_TRA_1PNPDE20070828_031255_000000412061_00104_28715_4049.N1	28-AUG-2007 03:12:55	Bright	41.000	162	34Alp Aqr	2.9440	5350.0	82	28715	No
36	GOM_TRA_1PNPDE20070828_031557_000000392061_00104_28715_4050.N1	28-AUG-2007 03:15:57	Bright	38.500	61	8Eps Peg	2.1000	3900.0	77	28715	No
37	GOM_TRA_1PNPDE20070828_032243_000000382061_00104_28715_4051.N1	28-AUG-2007 03:22:43	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	28715	No
38	GOM_TRA_1PNPDE20070828_032554_000000372061_00104_28715_4052.N1	28-AUG-2007 03:25:54	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	28715	No
39	GOM_TRA_1PNPDE20070828_033100_000000342061_00104_28715_4053.N1	28-AUG-2007 03:31:00	Bright	34.000	89	5Alp Cep	2.4510	8000.0	68	28715	No
40	GOM_TRA_1PNPDE20070828_033832_000000352061_00104_28715_4054.N1	28-AUG-2007 03:38:32	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	28715	No
41	GOM_TRA_1PNPDE20070828_035520_000000362061_00104_28715_4208.N1	28-AUG-2007 03:55:20	Bright	35.500	24	66Alp Gem	1.5800	10200.	71	28715	No
42	GOM_TRA_1PNPDE20070828_035905_000000342061_00104_28715_4209.N1	28-AUG-2007 03:59:05	Twilight	34.000	151	13Mu Gem	2.8900	3000.0	68	28715	No
43	GOM_TRA_1PNPDE20070828_040046_000000422061_00104_28715_4210.N1	28-AUG-2007 04:00:46	Twilight	41.500	44	24Gam Gem	1.9280	11000.	83	28715	No
44	GOM_TRA_1PNPDE20070828_040253_000000392061_00104_28715_4211.N1	28-AUG-2007 04:02:53	Twilight	38.500	8	10Alp CMi	0.40000	6500.0	77	28715	No
45	GOM_TRA_1PNPDE20070828_041016_000000532061_00104_28715_4212.N1	28-AUG-2007 04:10:16	Dark	52.500	1	9Alp CMa	-1.4400	11000.	105	28715	No
46	GOM_TRA_1PNPDE20070828_041139_000000402061_00104_28715_4213.N1	28-AUG-2007 04:11:39	Dark	40.000	179	24Omi2CMa	3.0320	24000.	80	28715	No
47	GOM_TRA_1PNPDE20070828_041307_000000442061_00104_28715_4214.N1	28-AUG-2007 04:13:07	Dark	43.500	23	21Eps CMa	1.5020	26000.	87	28715	No
48	GOM_TRA_1PNPDE20070828_041437_000000422061_00104_28715_4215.N1	28-AUG-2007 04:14:37	Dark	41.500	177	1Zet CMa	3.0220	26000.	83	28715	No

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



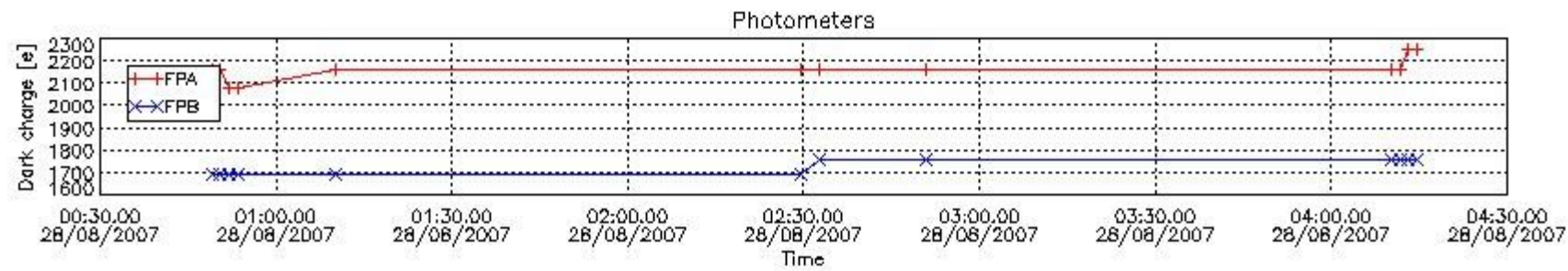
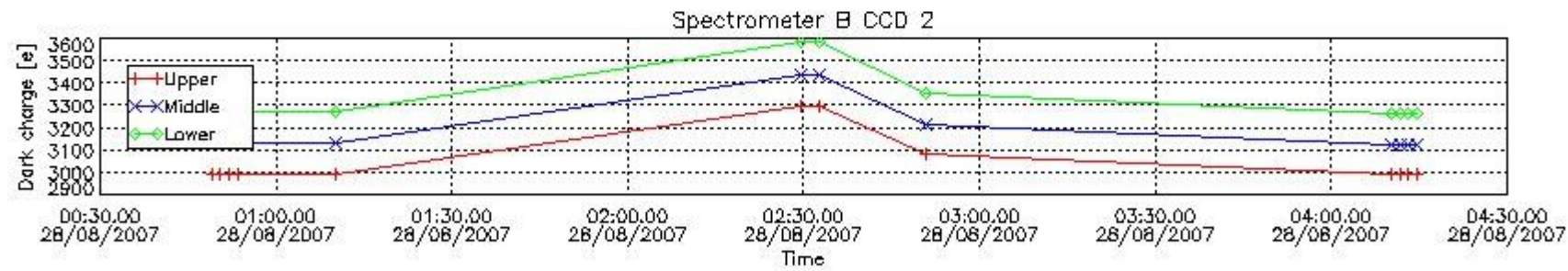
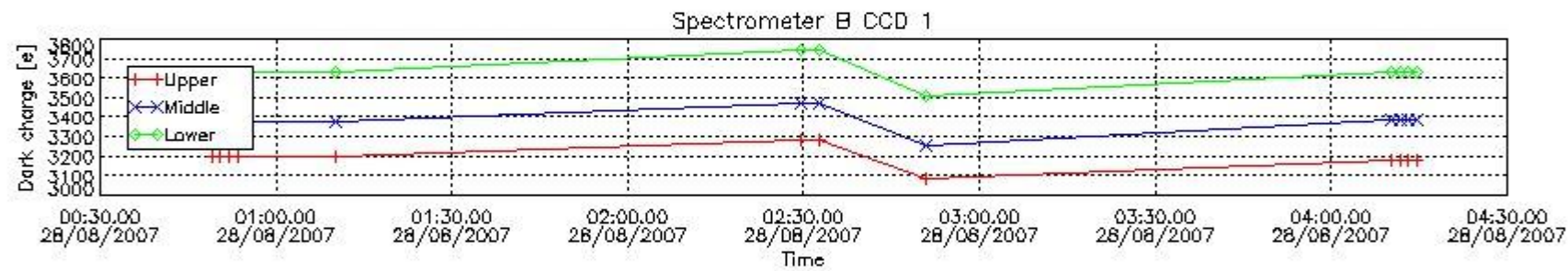
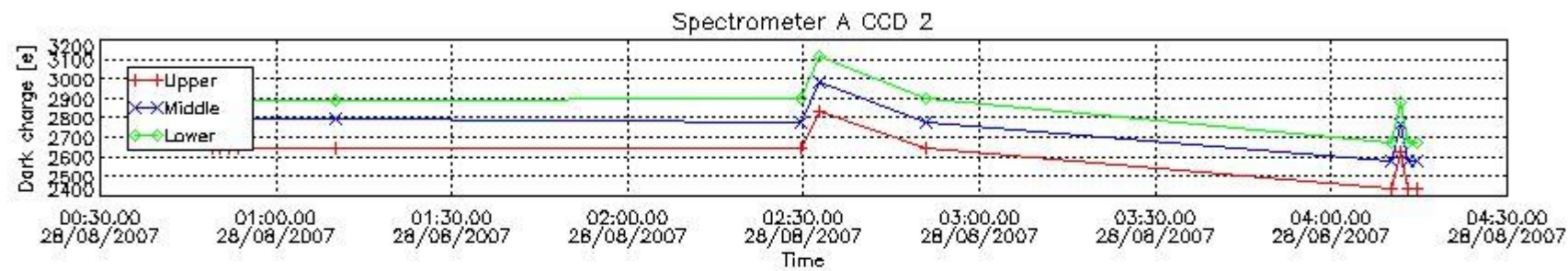
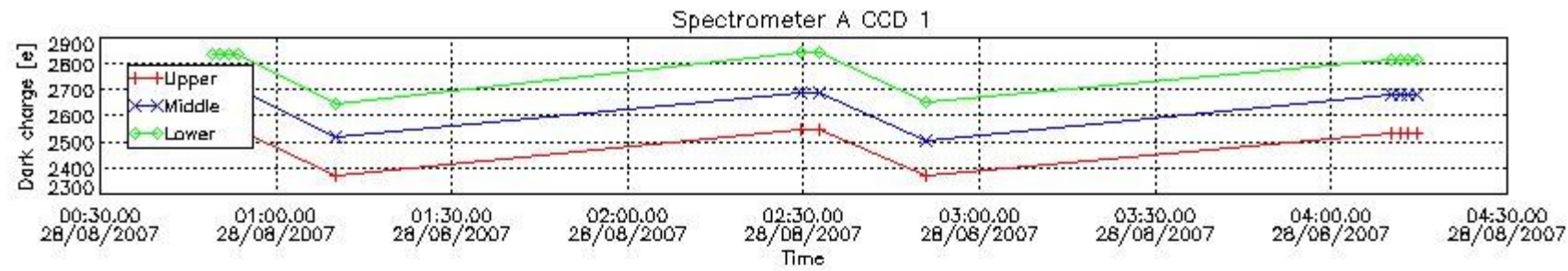
4. Overview of dark signal processing per product

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



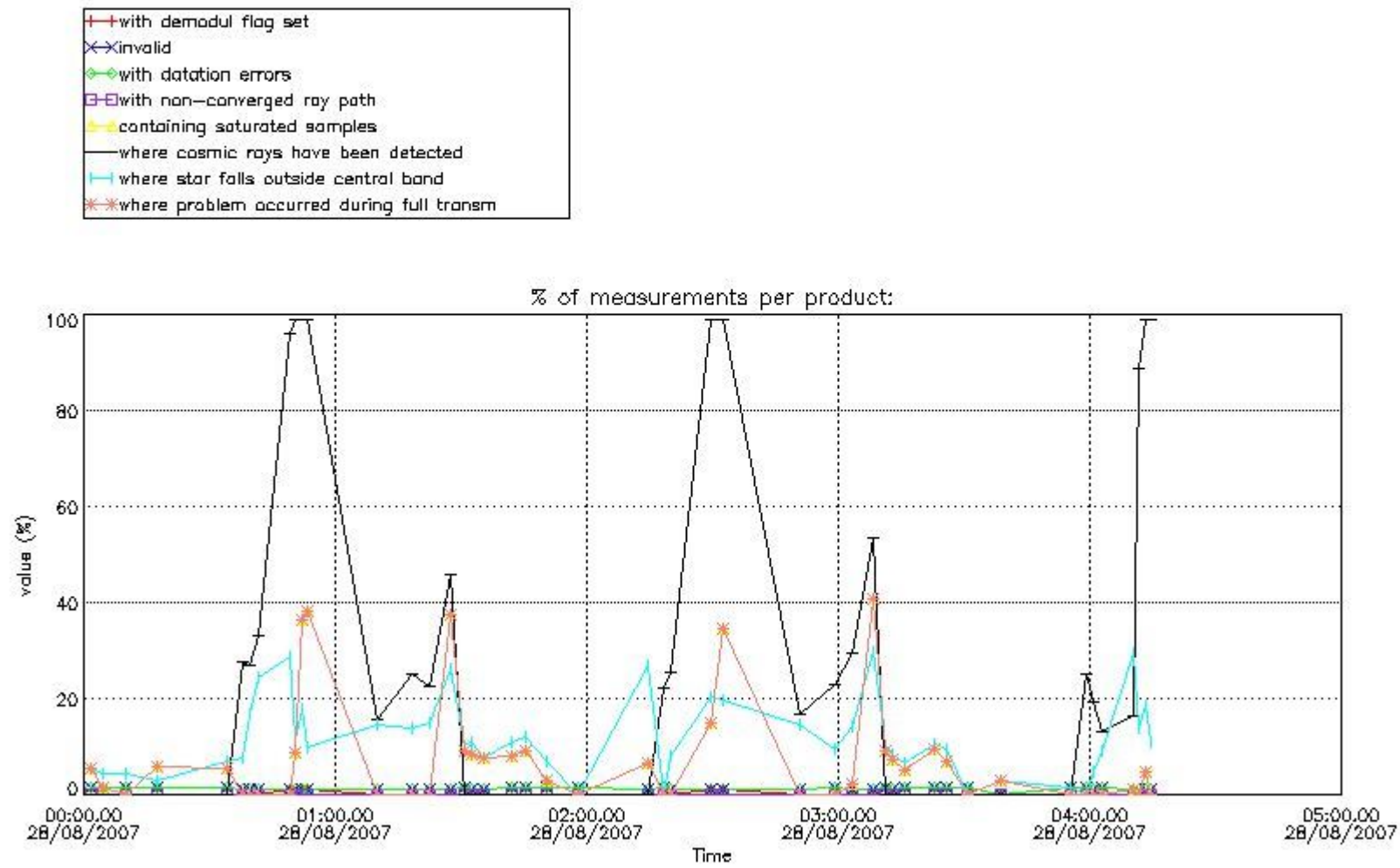
5. Demodulation flag and quality information monitoring

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.

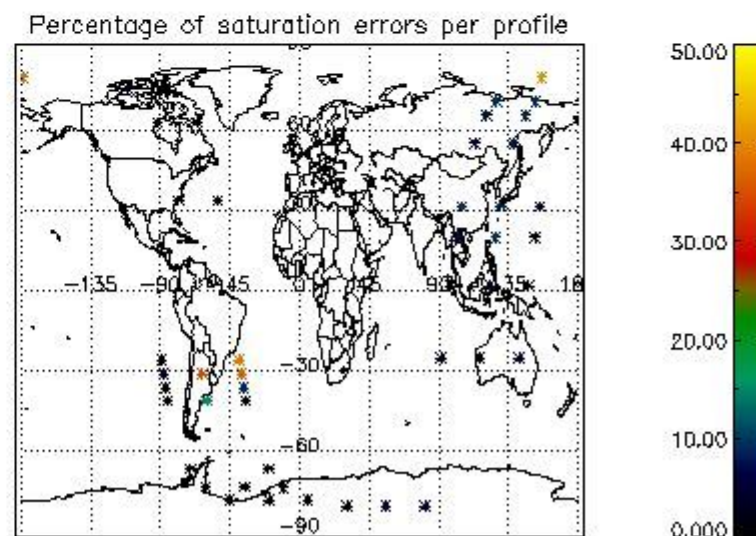
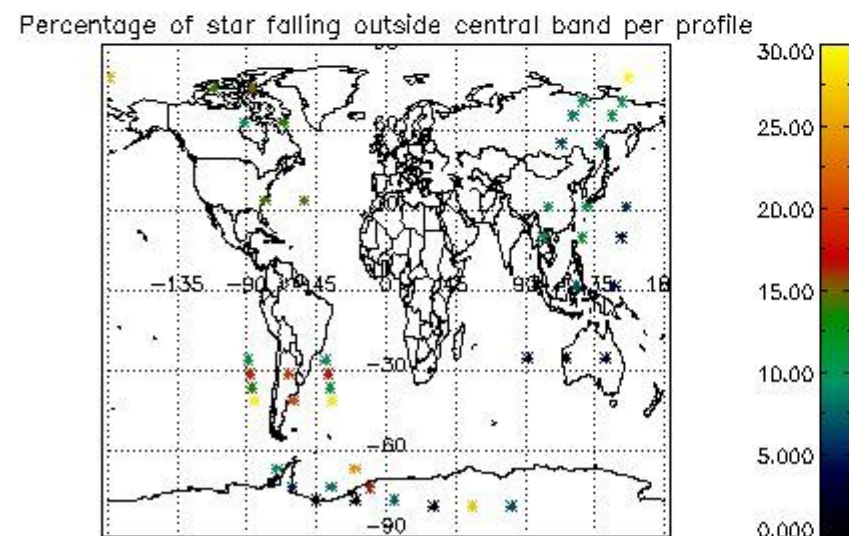
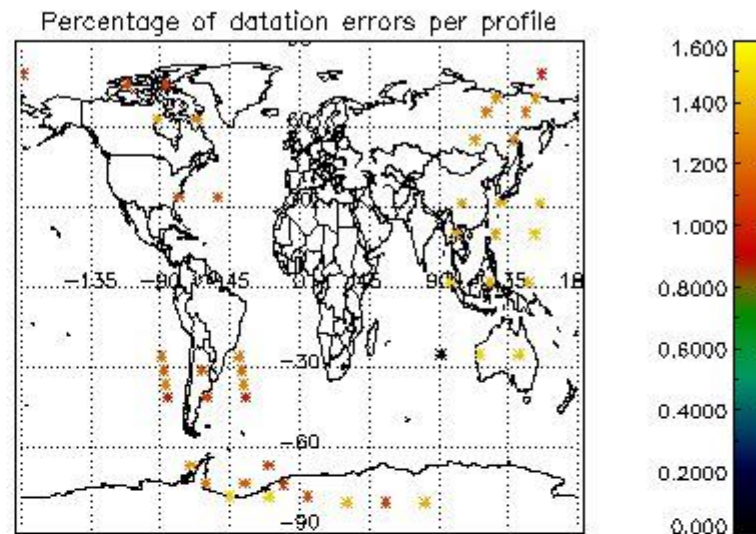
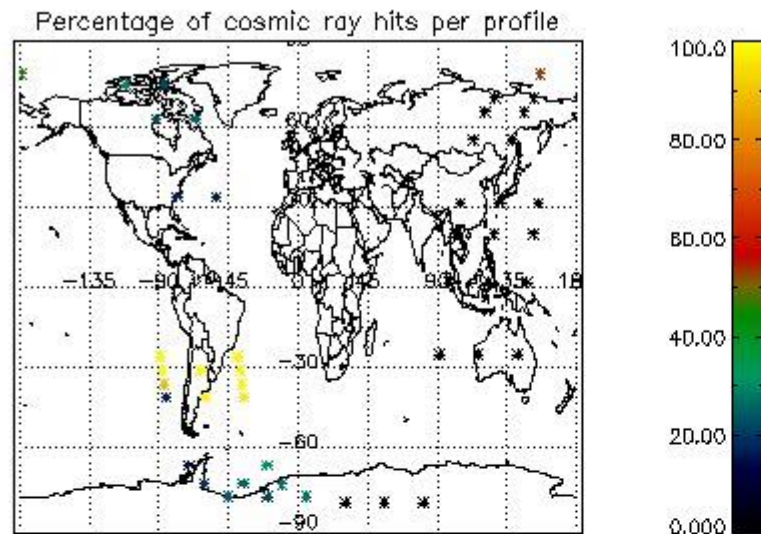
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	23.4043 %
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)



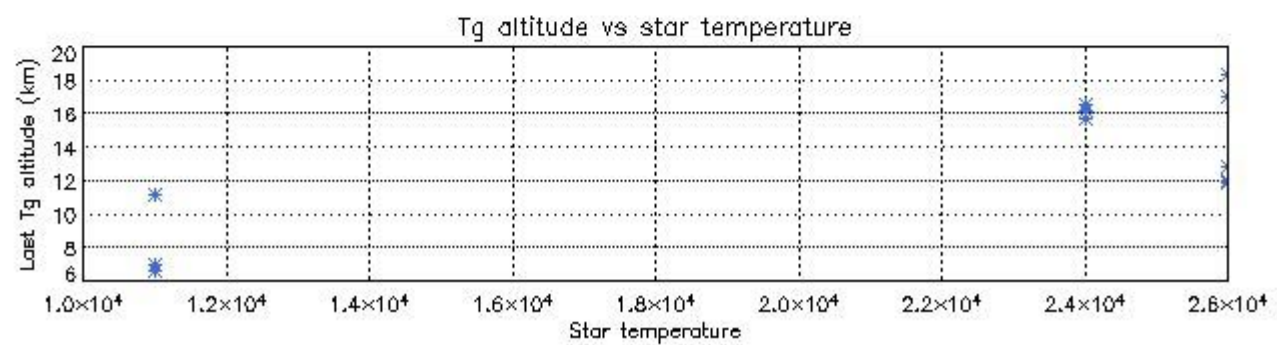
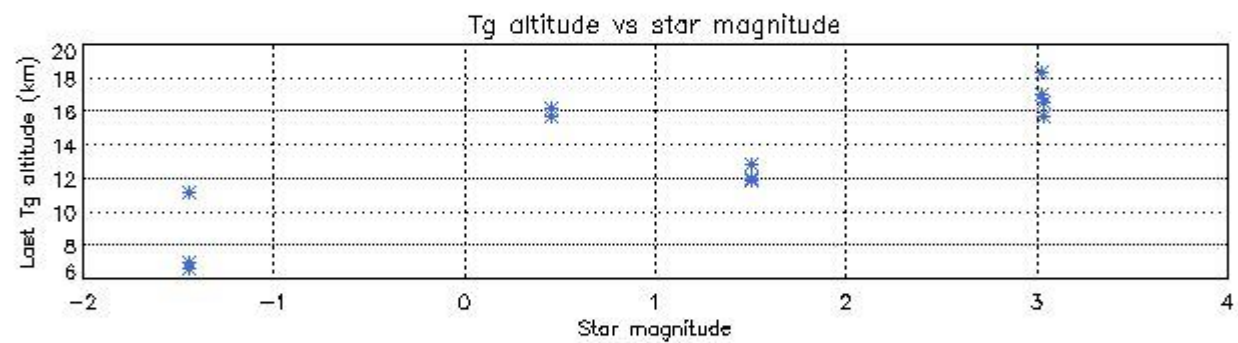
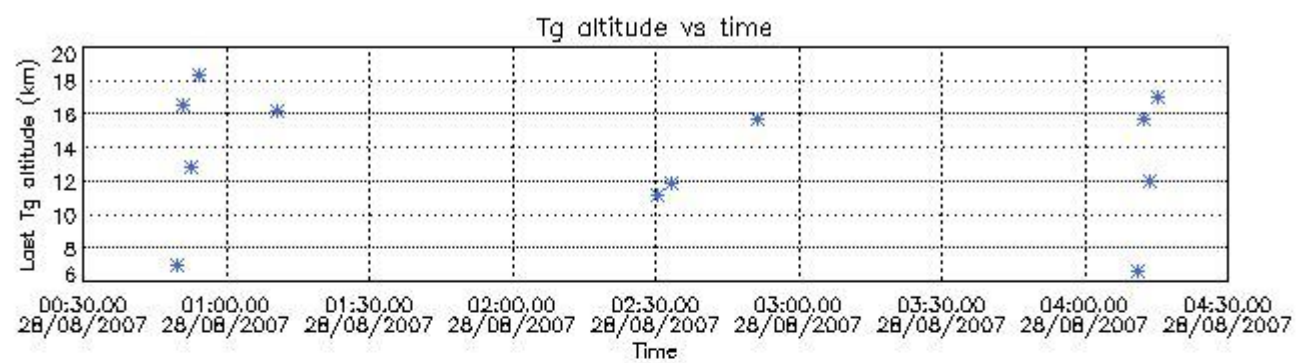
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.396	19.142	12.888
St. deviation:	3.8452	5.0990	5.9128
Maximum:	18.353	26.635	17.069
Minimum:	6.5876	6.6150	8.7072
Number of data:	12.000	23.000	2.0000

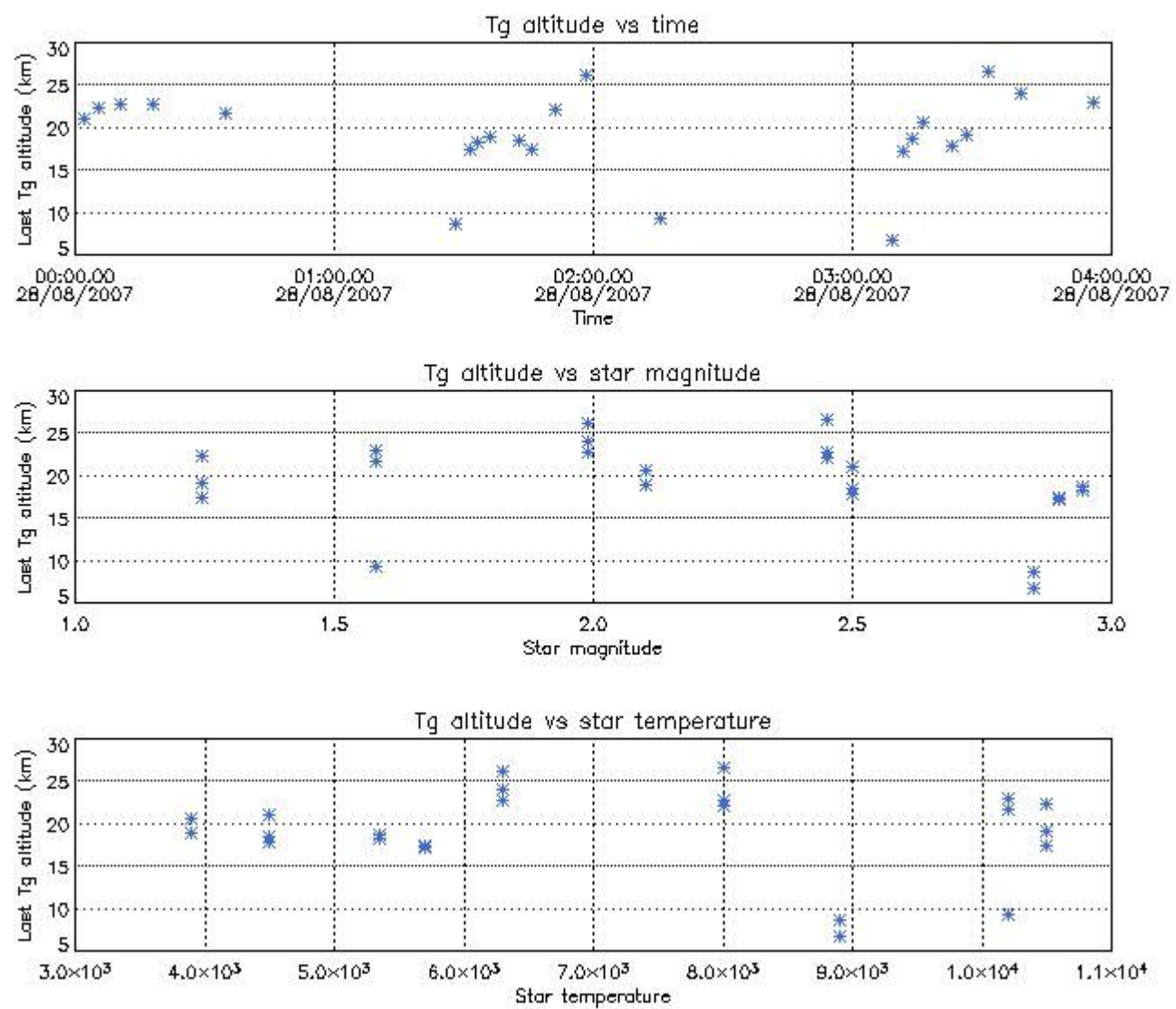
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



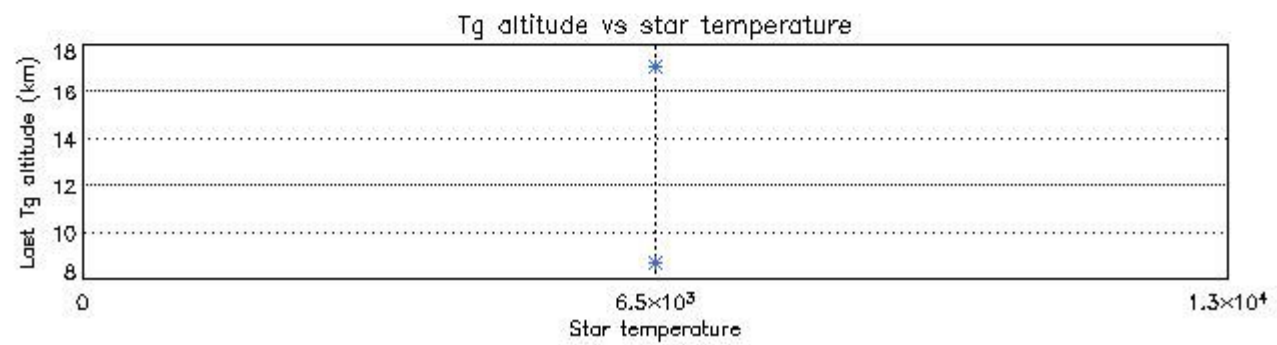
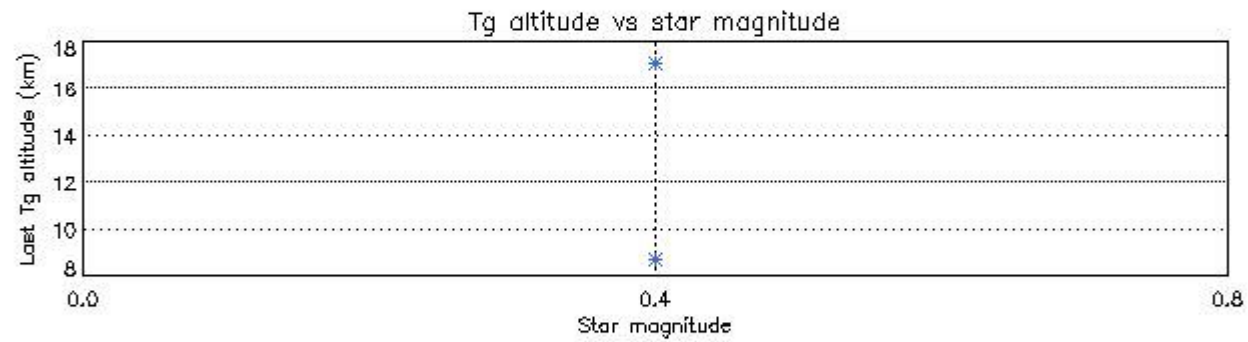
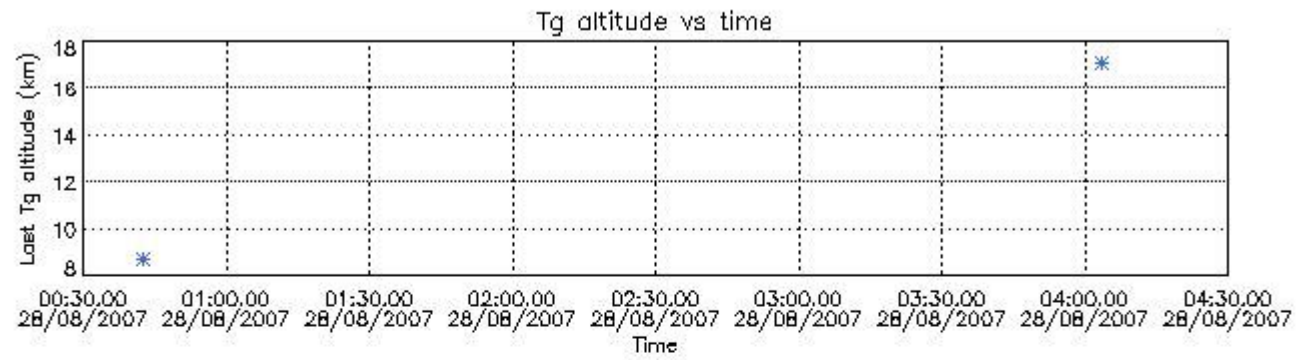
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

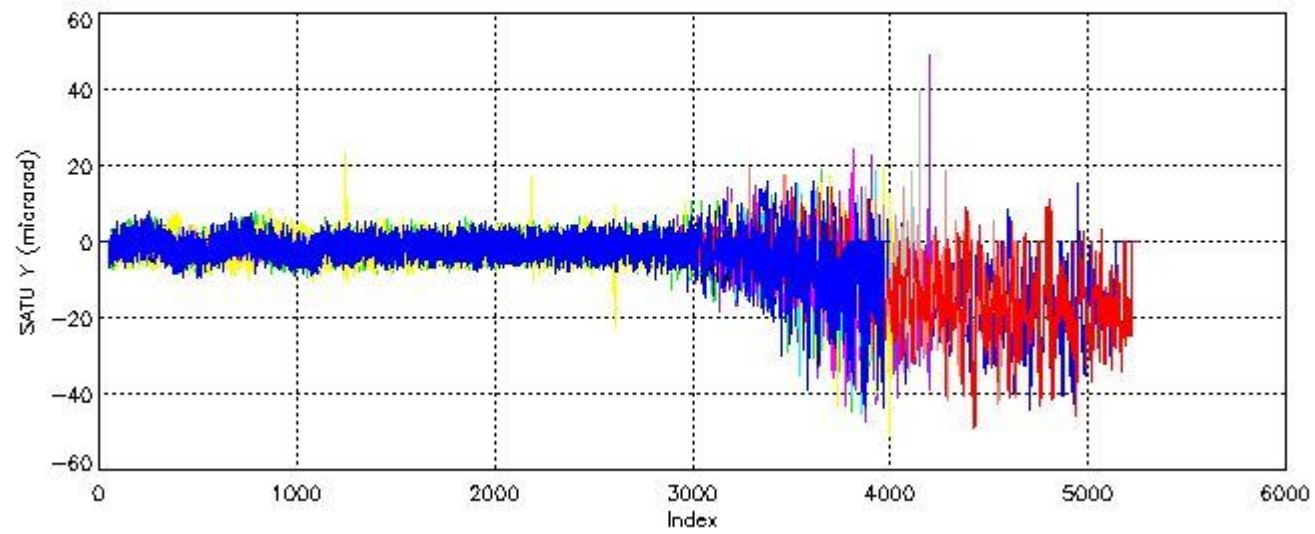
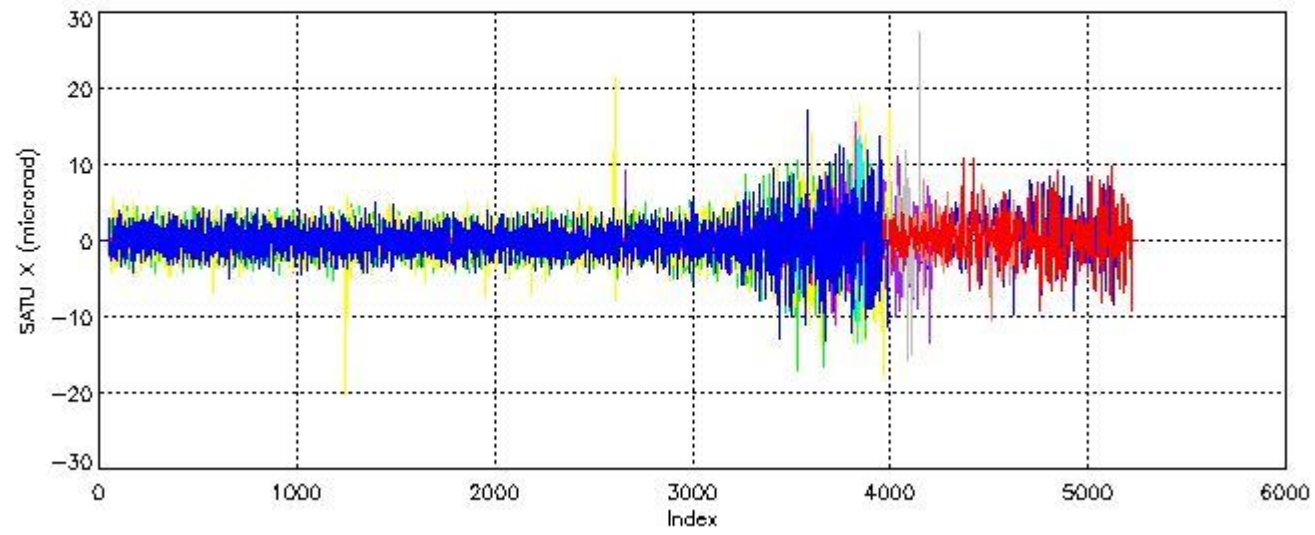


7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

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

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.11058	-1.0857	0.12640	-1.2789
St. deviation:	0.74463	2.2774	0.64324	2.0027
Maximum:	5.4000	8.4000	4.0000	6.9000
Minimum:	-6.9000	-11.100	-3.1000	-9.0000

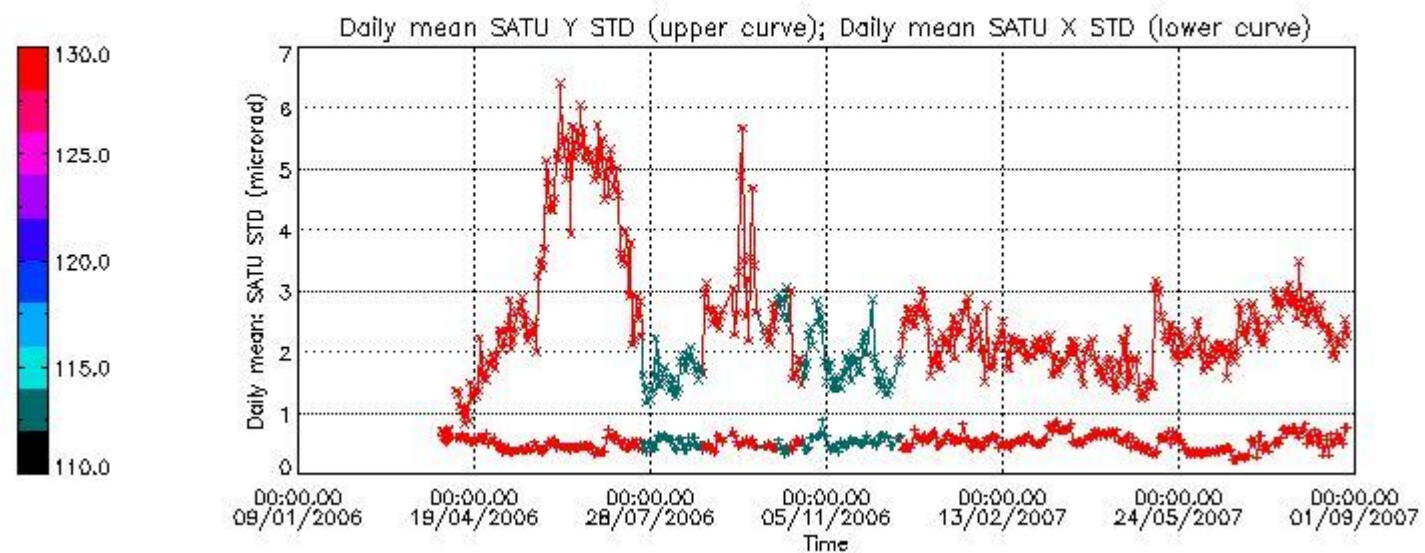
Number of data:	11250.	11250.	19100.	19100.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

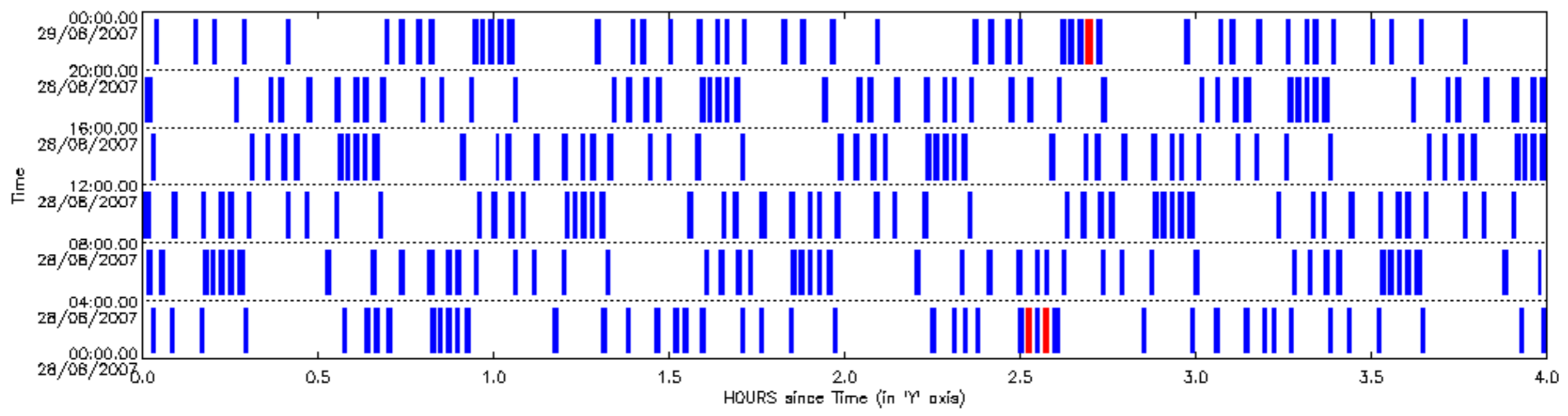
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

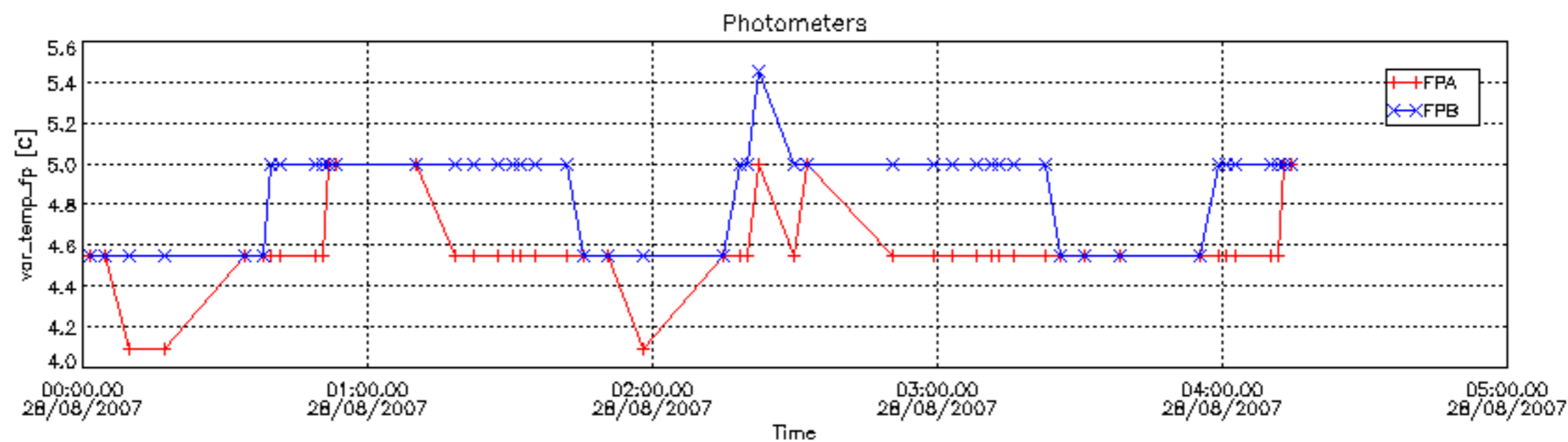
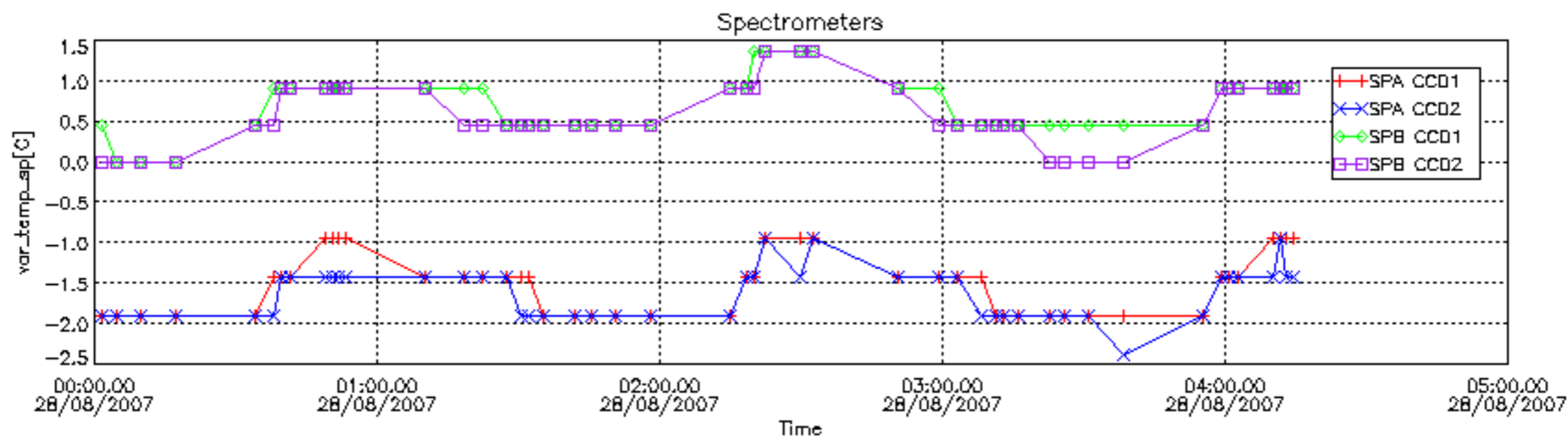


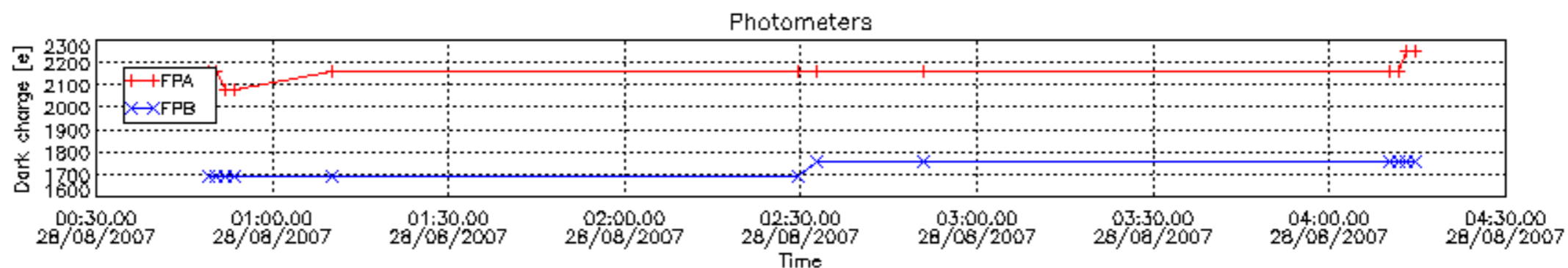
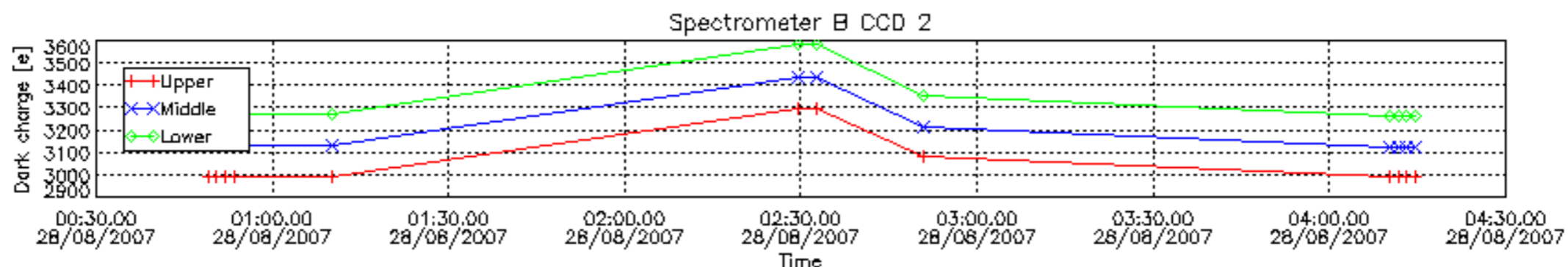
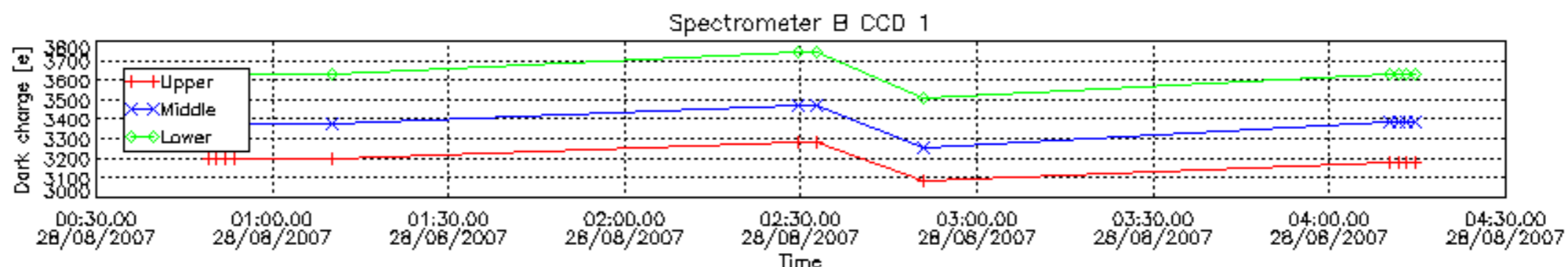
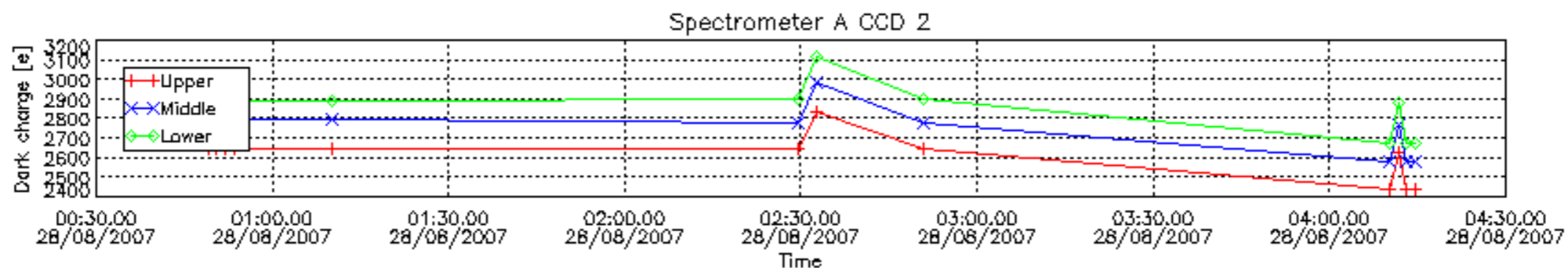
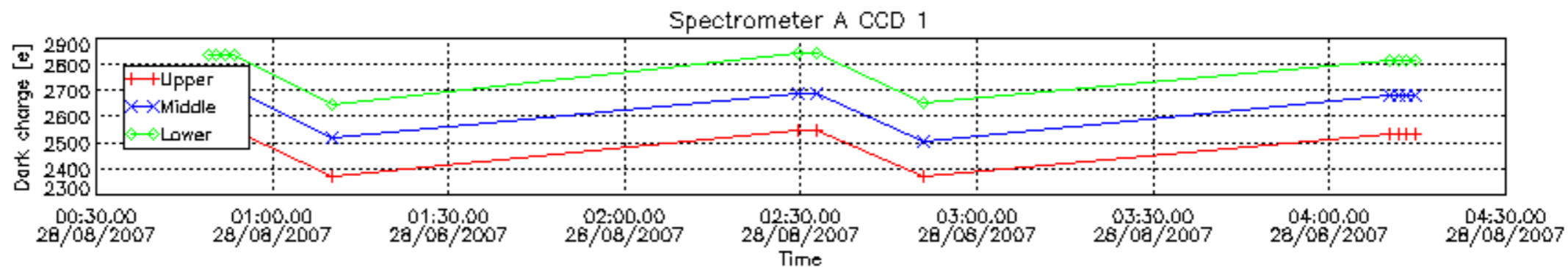
8. Auxiliary Data Files used for the production reported in section 2.4

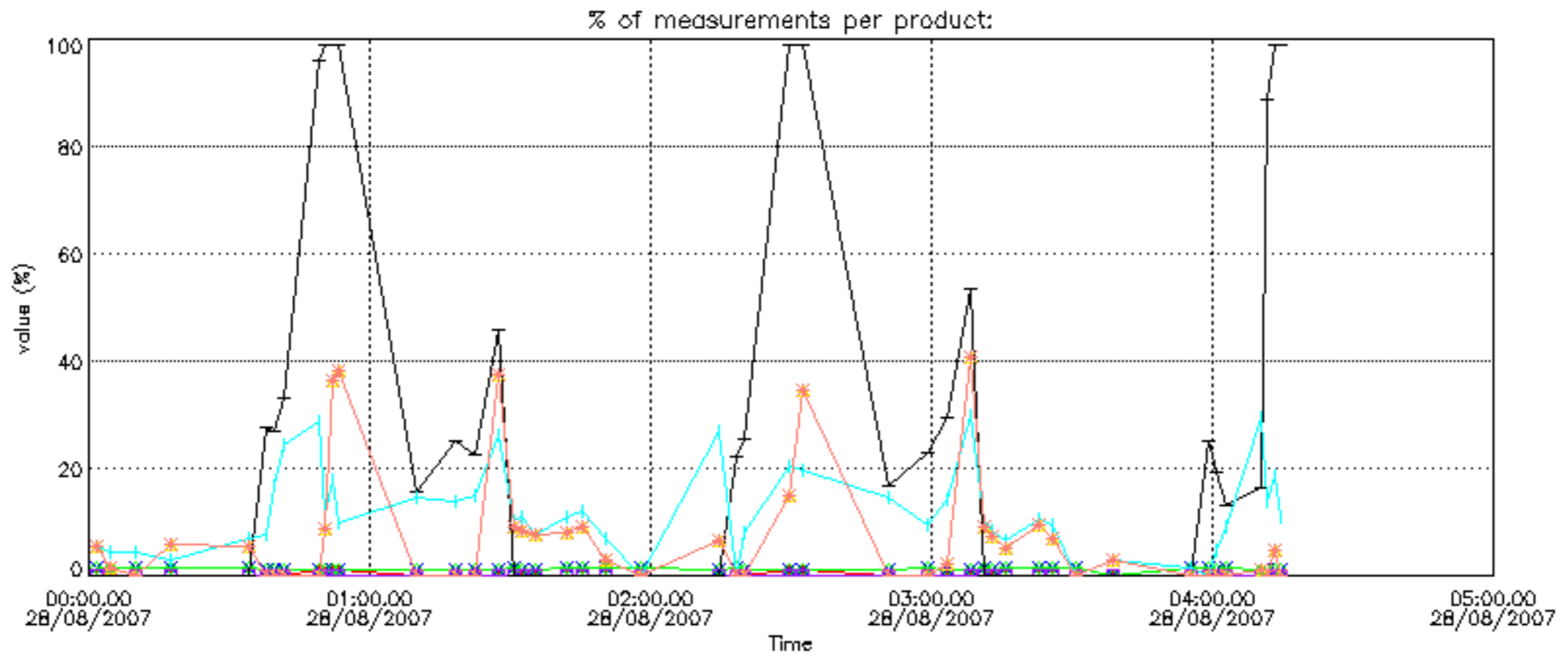
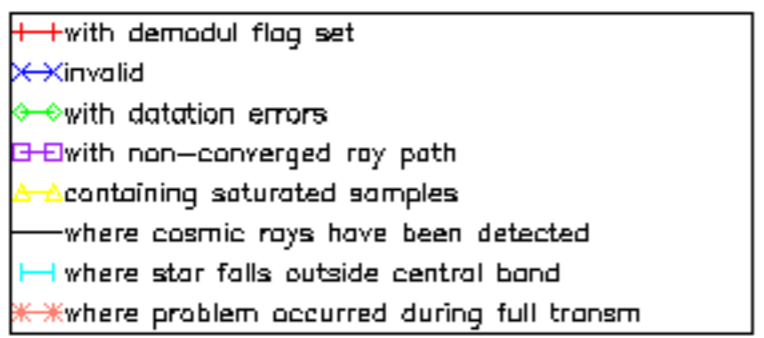
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	28-AUG-2007 00:01:31
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070822_085350_20070820_000000_20100101_000000	1	28-AUG-2007 00:01:31
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	28-AUG-2007 00:01:31
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	28-AUG-2007 00:01:31
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	28-AUG-2007 00:01:31
ECMWF_FILE	AUX_ECF_AXNECM20070827_062111_20070827_210000_20070828_090000	1	28-AUG-2007 00:01:31
ECMWF_FILE	AUX_ECF_AXNECM20070827_182112_20070828_030000_20070828_150000	41	28-AUG-2007 03:55:20
OPTIONAL_ECMWF_FILE	MISSING	1	28-AUG-2007 00:01:31
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070827_212158_000060572061_00100_28711_4055.N1	1	28-AUG-2007 00:01:31
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070827_230255_000057382061_00101_28712_4056.N1	9	28-AUG-2007 00:49:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070828_021930_000044632061_00103_28714_4058.N1	27	28-AUG-2007 02:22:17
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070828_033912_000057382061_00104_28715_4059.N1	41	28-AUG-2007 03:55:20

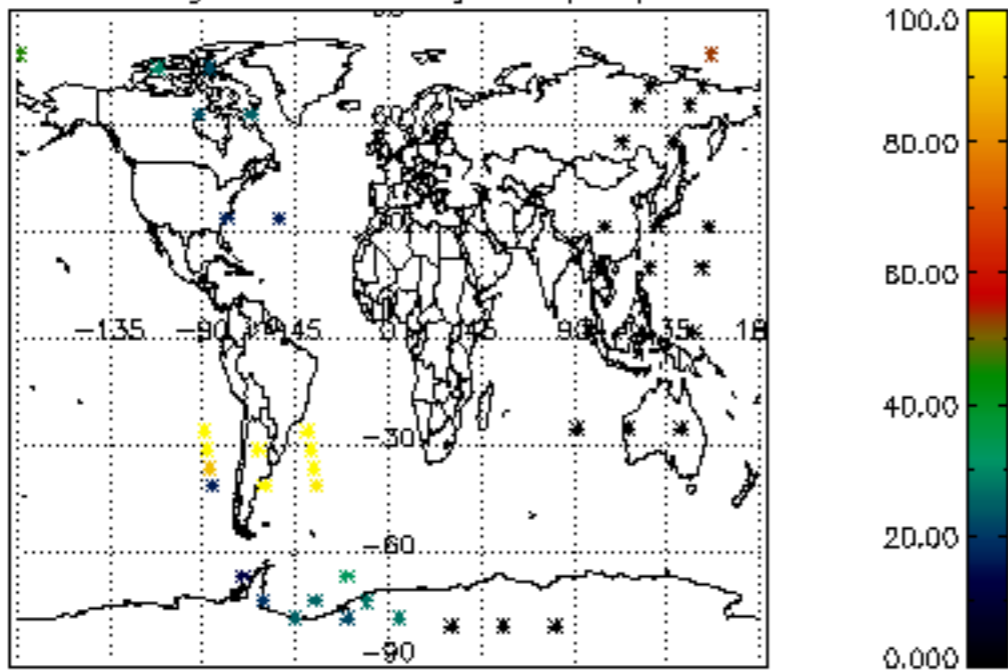




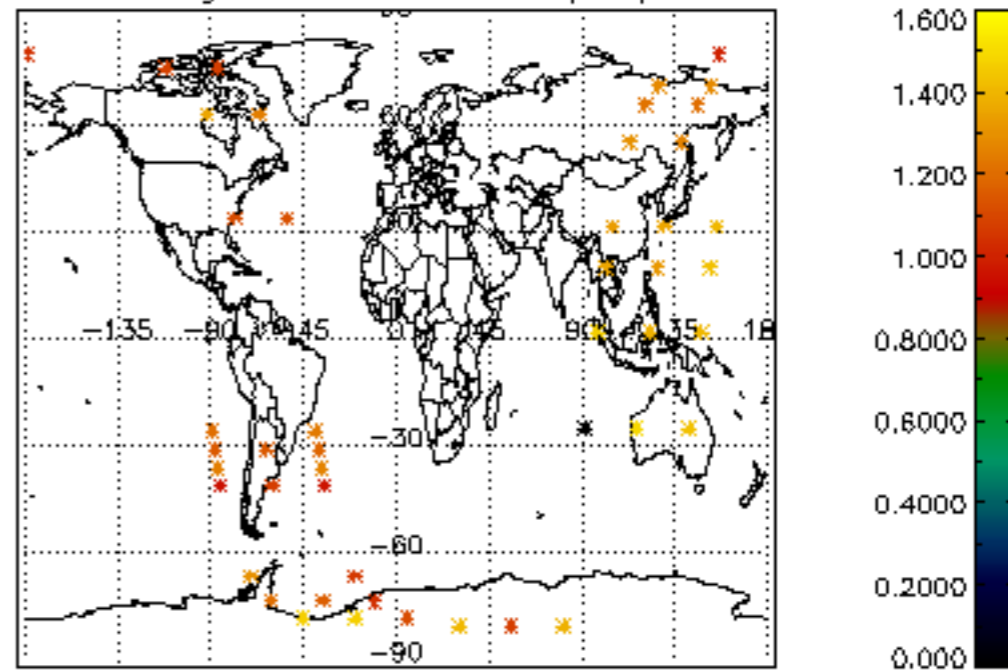




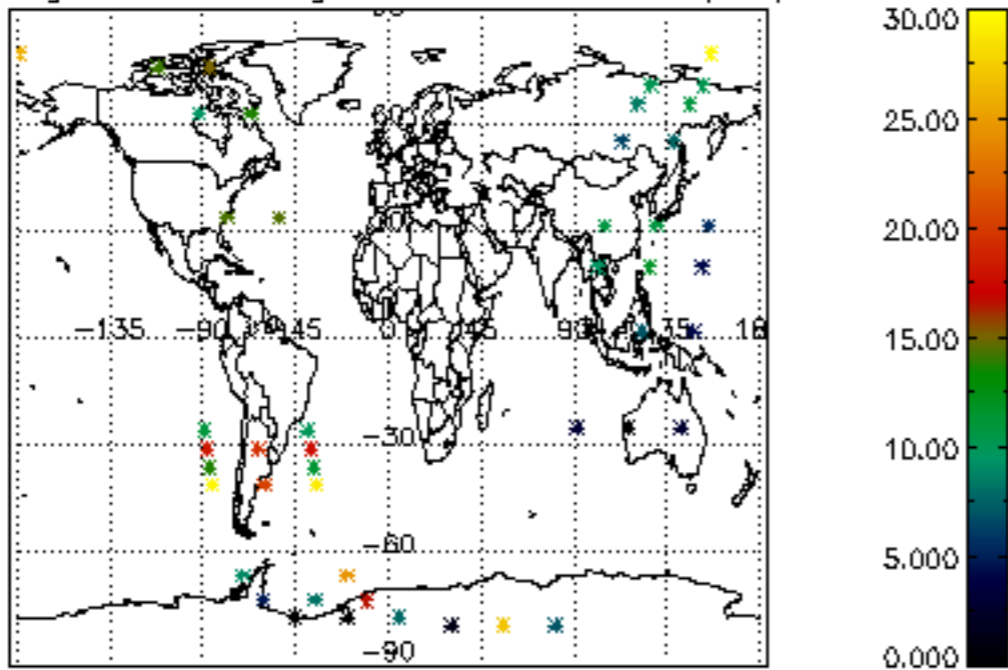
Percentage of cosmic ray hits per profile



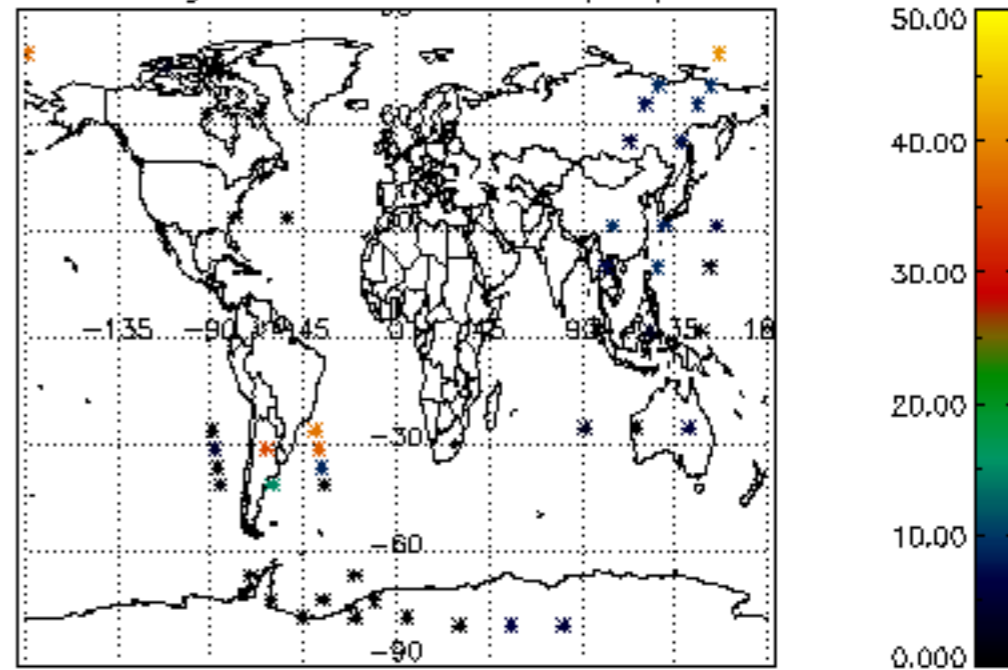
Percentage of datation errors per profile



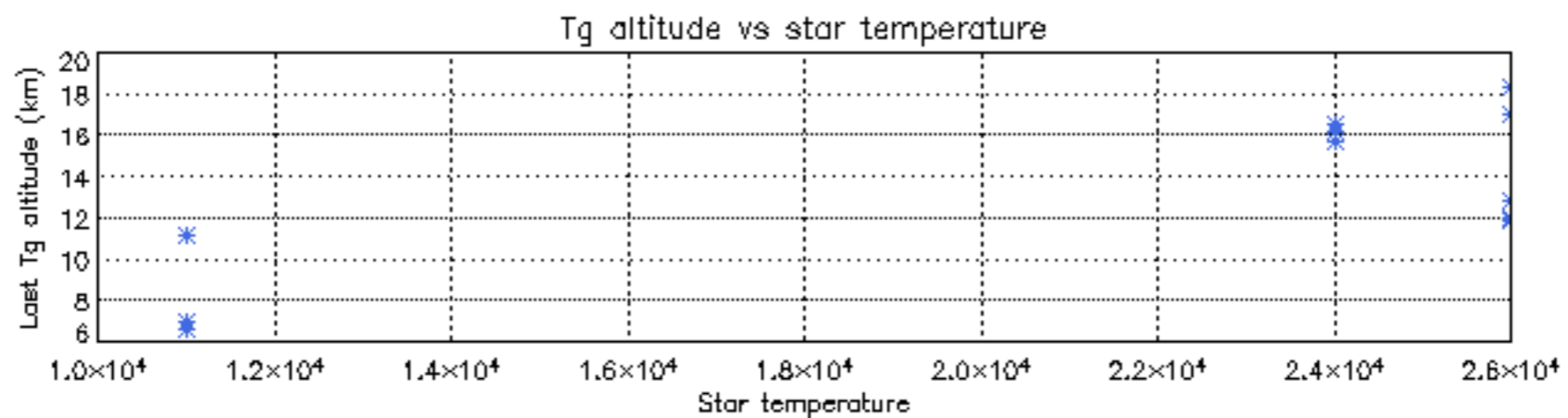
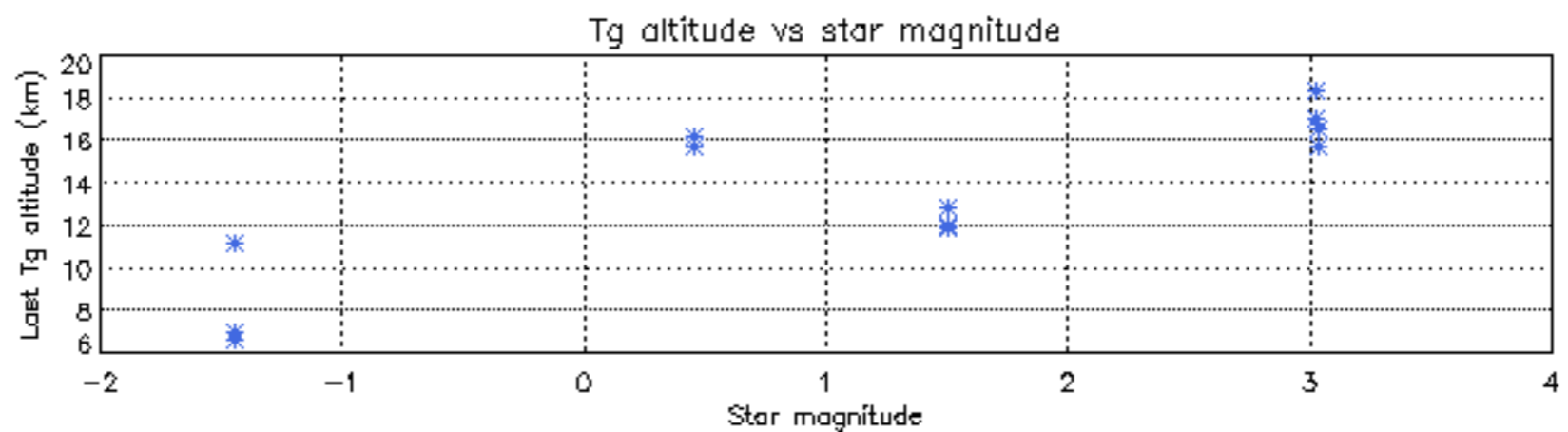
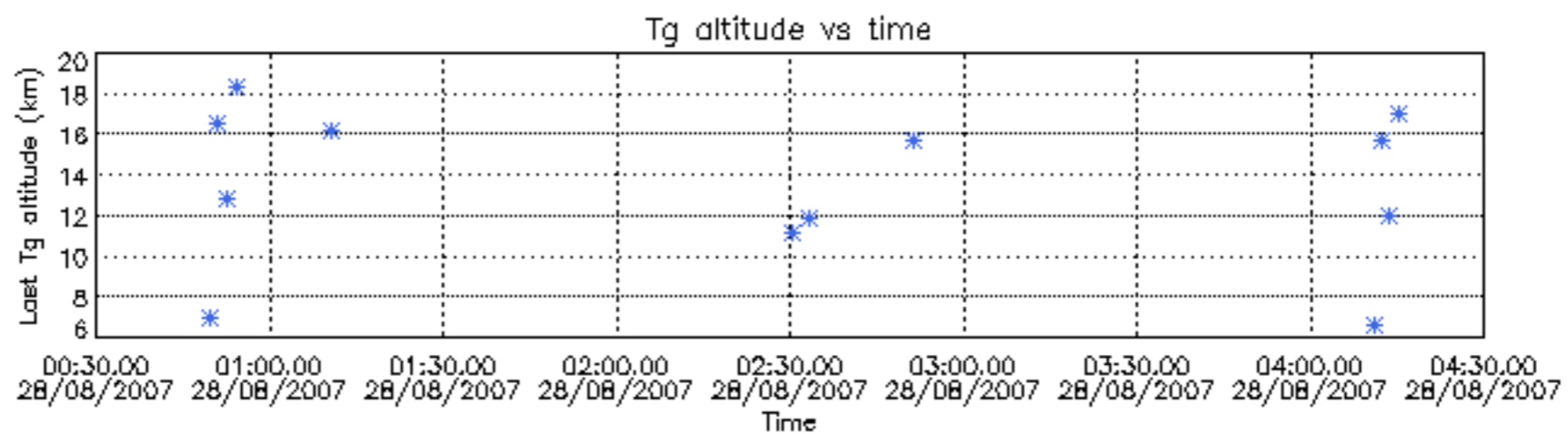
Percentage of star falling outside central band per profile



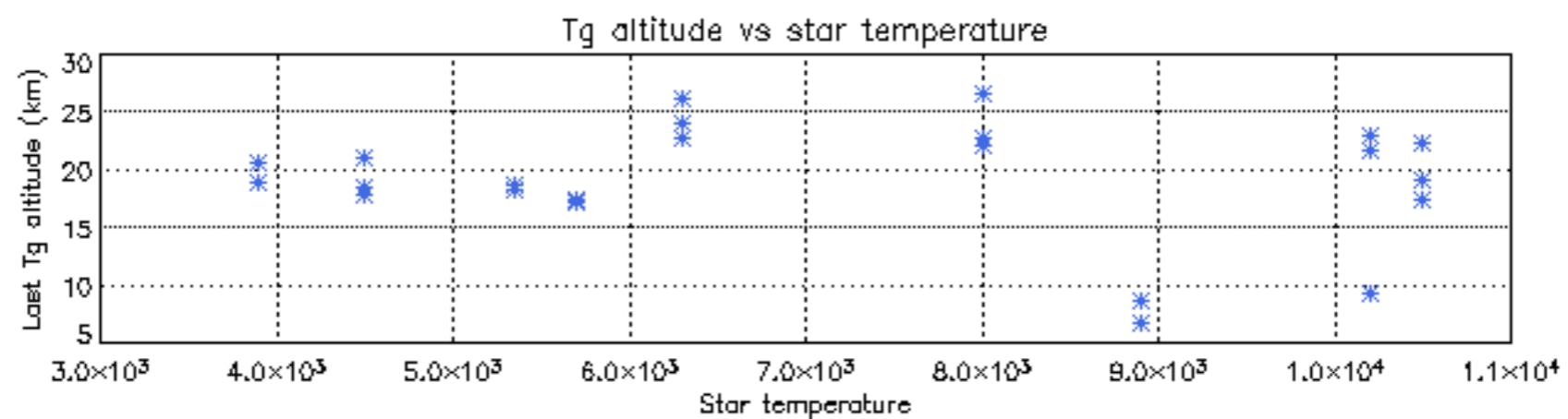
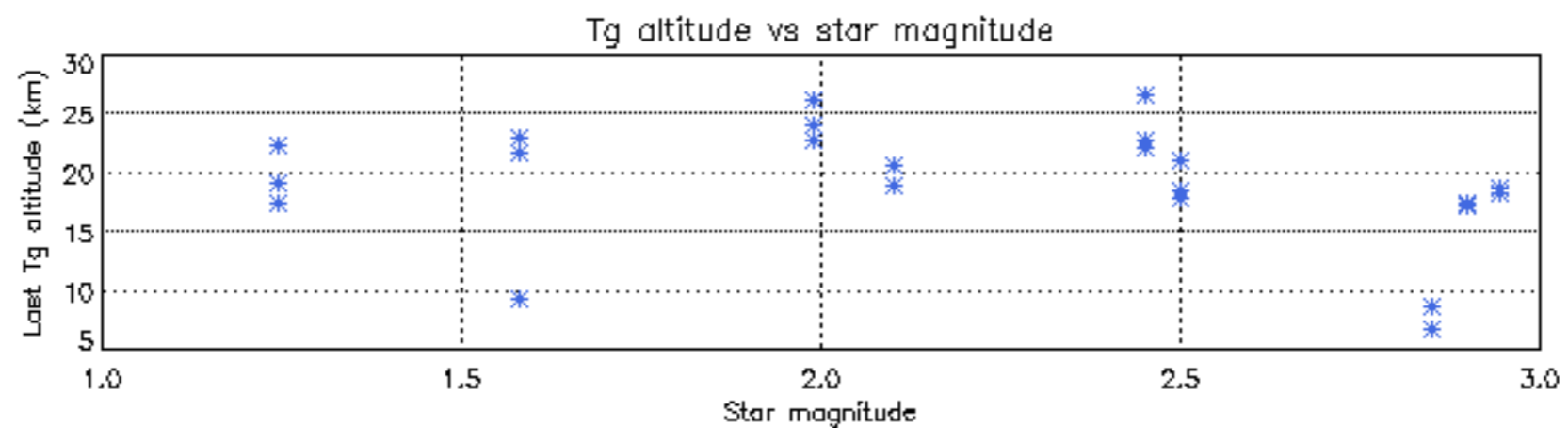
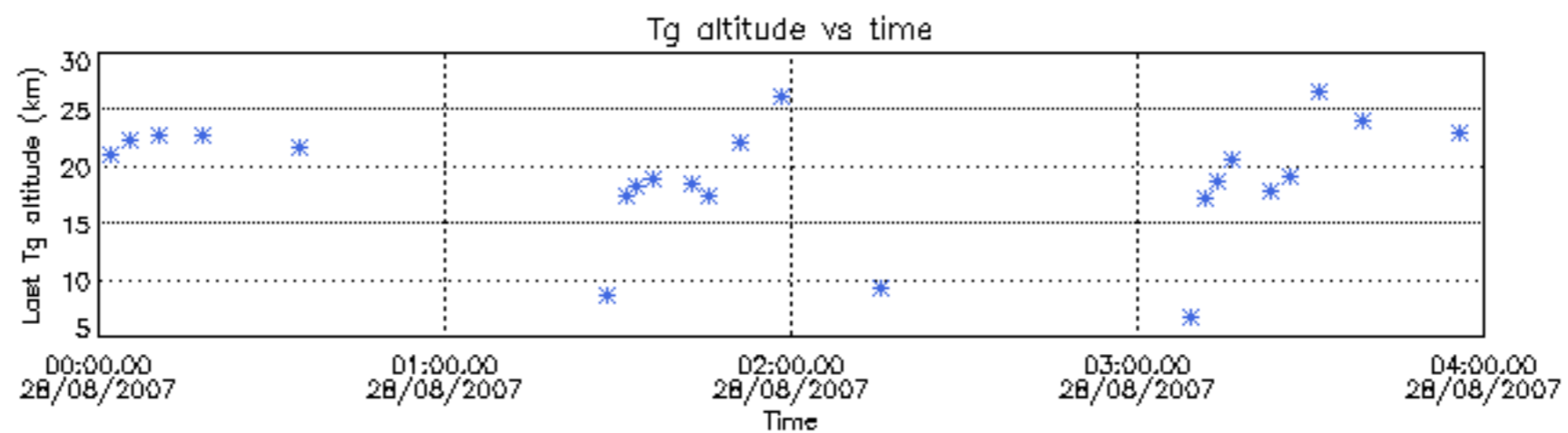
Percentage of saturation errors per profile



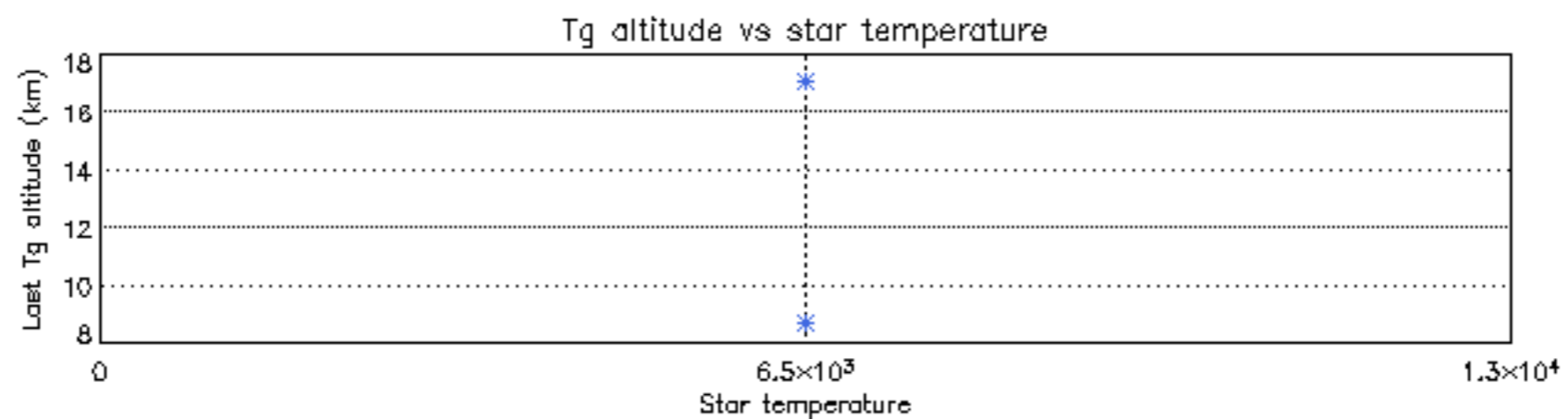
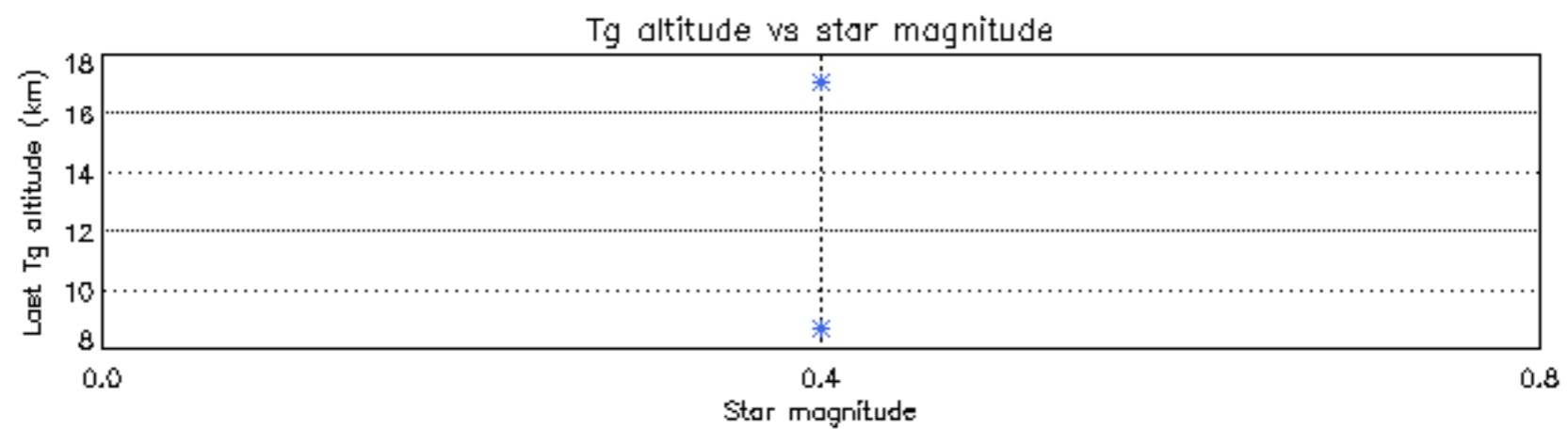
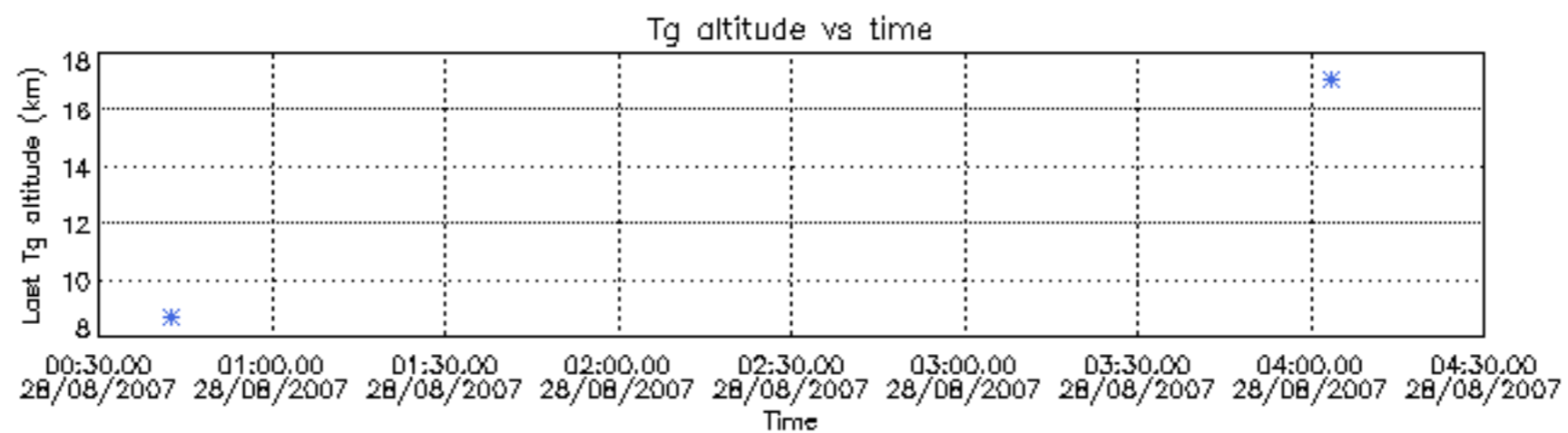
Tangent altitude at which the star is lost

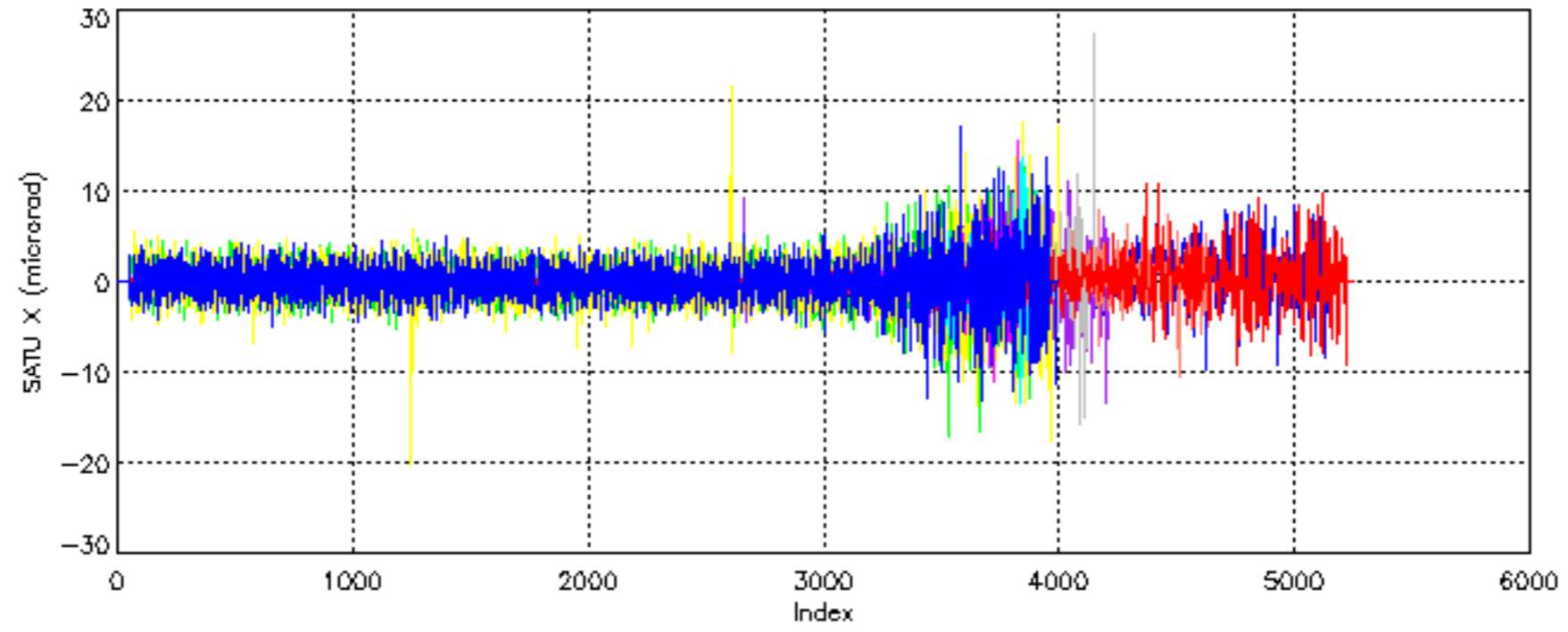


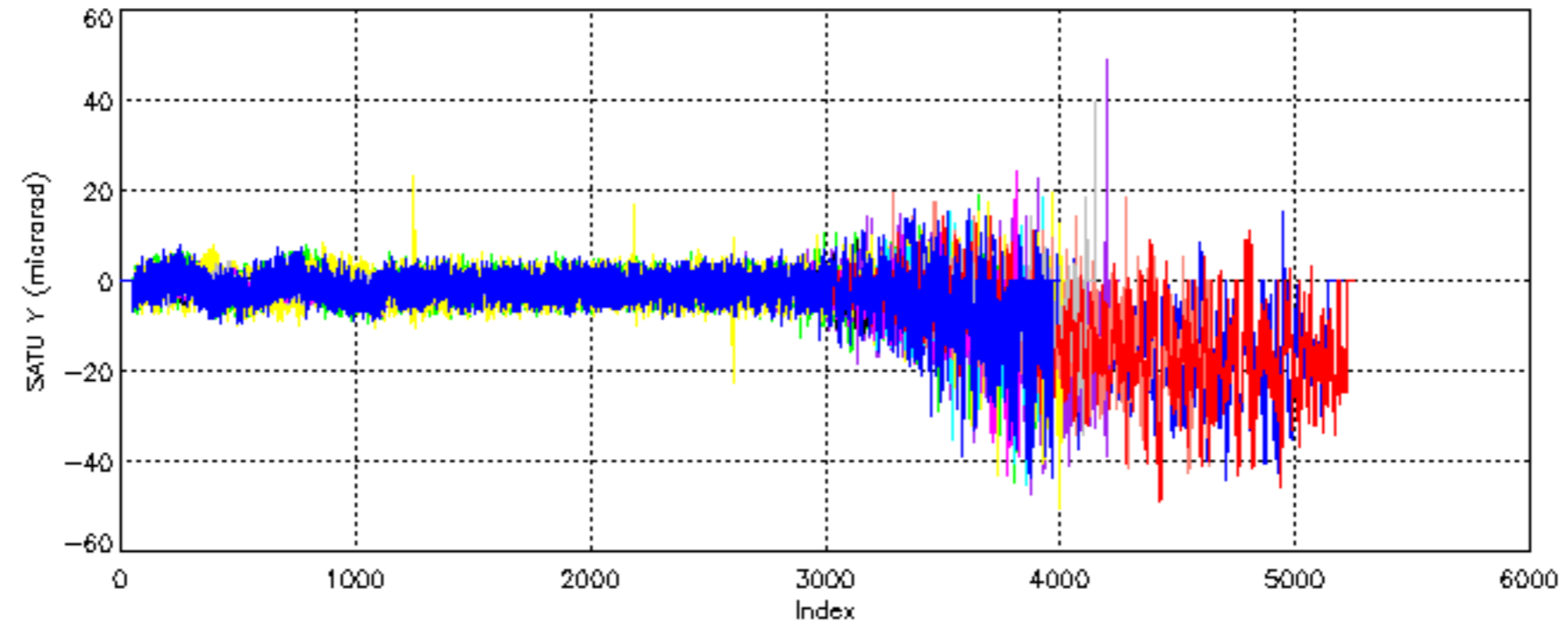
Tangent altitude at which the star is lost

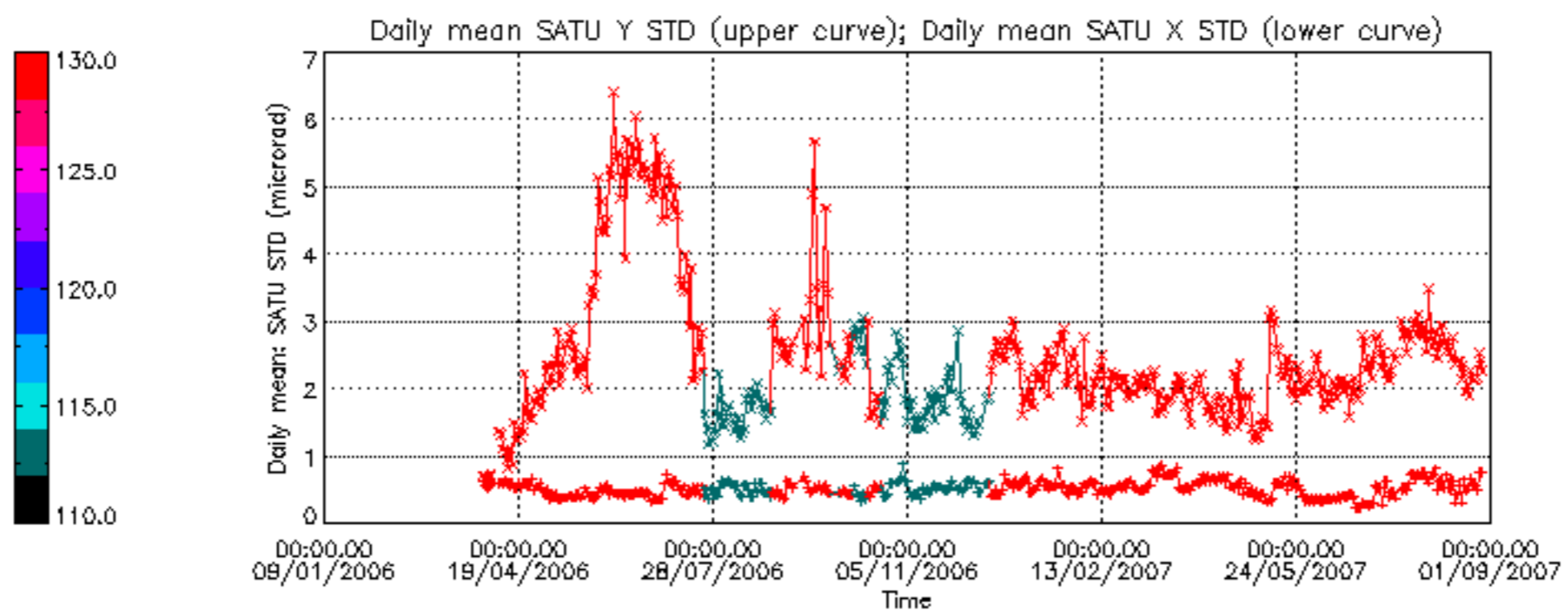


Tangent altitude at which the star is lost









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1; -781.4; 01-AUG-2007 01:36:32; Dark ; 39.5; 47; 2Bet CMa ; 1.98; 28000;occ; 79; 0;28327
 2; -680.8; 01-AUG-2007 01:38:13; Dark ; 42.0; 139; 9Bet Lep ; 2.83; 5600;occ; 84; 0;28327
 3; -483.6; 01-AUG-2007 01:41:30; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28327
 4; 267.4; 01-AUG-2007 01:54:01; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;28328
 5; 424.4; 01-AUG-2007 01:56:38; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;28328
 6; 715.8; 01-AUG-2007 02:01:29; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;28328
 7; 909.8; 01-AUG-2007 02:04:43; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;28328
 8; 1412.3; 01-AUG-2007 02:13:06; Dark ; 52.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 104; 0;28328
 9; 1555.1; 01-AUG-2007 02:15:29; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;28328
 10; 2144.7; 01-AUG-2007 02:25:18; Bright; 35.0; 168; 17Zet Aql ; 2.99; 11000;occ; 70; 0;28328
 11; 2569.6; 01-AUG-2007 02:32:23; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;28328
 12; 2796.3; 01-AUG-2007 02:36:10; Bright; 35.5; 69; 33Gam Dra ; 2.23; 3800;occ; 71; 0;28328
 13; 3035.0; 01-AUG-2007 02:40:09; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;28328
 14; 3284.8; 01-AUG-2007 02:44:18; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;28328
 15; 3441.1; 01-AUG-2007 02:46:55; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;28328

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1; -1823.8; 01-AUG-2007 02:59:46; Bright; 33.5; 42; 34Bet Aur ; 1.90; 10200;occ; 67; 0;28328
 2; -1690.0; 01-AUG-2007 03:02:00; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;28328
 3; -1397.3; 01-AUG-2007 03:06:52; Dark ; 40.5; 176; 23Zet Tau ; 3.02; 22000;occ; 81; 0;28328
 4; -1178.1; 01-AUG-2007 03:10:31; Dark ; 50.0; 14; 58Alp Ori ; 0.87; 3000;occ; 100; 0;28328
 5; -1013.2; 01-AUG-2007 03:13:16; Dark ; 39.0; 30; 46Eps Ori ; 1.69; 30000;occ; 78; 0;28328
 6; -865.6; 01-AUG-2007 03:15:44; Dark ; 43.5; 7; 19Bet Ori ; 0.10; 14000;occ; 87; 0;28328
 7; -781.2; 01-AUG-2007 03:17:08; Dark ; 40.5; 47; 2Bet CMa ; 1.98; 28000;occ; 81; 0;28328
 8; -680.5; 01-AUG-2007 03:18:49; Dark ; 41.5; 139; 9Bet Lep ; 2.83; 5600;occ; 83; 0;28328
 9; -580.1; 01-AUG-2007 03:20:29; Dark ; 36.0; 177; 1Zet CMa ; 3.02; 26000;occ; 72; 0;28328
 10; -483.5; 01-AUG-2007 03:22:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28328
 11; 268.0; 01-AUG-2007 03:34:37; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;28329
 12; 424.7; 01-AUG-2007 03:37:14; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;28329
 13; 716.4; 01-AUG-2007 03:42:06; Dark ; 42.0; 148; Alp Tuc ; 2.88; 4100;occ; 84; 0;28329
 14; 910.2; 01-AUG-2007 03:45:20; Dark ; 38.0; 45; Alp Pav ; 1.94; 26000;occ; 76; 0;28329
 15; 1412.6; 01-AUG-2007 03:53:42; Dark ; 42.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 84; 0;28329
 16; 1555.4; 01-AUG-2007 03:56:05; Bright; 35.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 71; 0;28329
 17; 2144.9; 01-AUG-2007 04:05:54; Bright; 36.0; 168; 17Zet Aql ; 2.99; 11000;occ; 72; 0;28329
 18; 2569.7; 01-AUG-2007 04:12:59; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;28329
 19; 2796.5; 01-AUG-2007 04:16:46; Bright; 36.0; 69; 33Gam Dra ; 2.23; 3800;occ; 72; 0;28329
 20; 3035.5; 01-AUG-2007 04:20:45; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;28329
 21; 3285.2; 01-AUG-2007 04:24:55; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;28329
 22; 3441.2; 01-AUG-2007 04:27:31; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28329

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 2; -1689.8; 01-AUG-2007 04:42:36; Bright; 33.5; 107; 37The Aur ; 2.65; 11000;occ; 67; 0;28329
 3; -1397.3; 01-AUG-2007 04:47:28; Dark ; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;28329
 4; -1177.7; 01-AUG-2007 04:51:08; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;28329
 5; -1012.9; 01-AUG-2007 04:53:53; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;28329
 6; -865.0; 01-AUG-2007 04:56:21; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;28329
 7; -781.2; 01-AUG-2007 04:57:44; Dark ; 41.0; 47; 2Bet CMa ; 1.98; 28000;occ; 82; 0;28329
 8; -680.0; 01-AUG-2007 04:59:26; Dark ; 39.0; 139; 9Bet Lep ; 2.83; 5600;occ; 78; 0;28329
 9; -580.0; 01-AUG-2007 05:01:06; Dark ; 37.0; 177; 1Zet CMa ; 3.02; 26000;occ; 74; 0;28329
 10; -483.3; 01-AUG-2007 05:02:42; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28329
 11; 268.4; 01-AUG-2007 05:15:14; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;28330
 12; 425.1; 01-AUG-2007 05:17:51; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;28330
 13; 716.8; 01-AUG-2007 05:22:42; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;28330
 14; 910.5; 01-AUG-2007 05:25:56; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;28330
 15; 1412.8; 01-AUG-2007 05:34:18; Dark ; 47.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 94; 0;28330
 16; 1555.7; 01-AUG-2007 05:36:41; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;28330
 17; 2145.1; 01-AUG-2007 05:46:31; Bright; 34.5; 168; 17Zet Aql ; 2.99; 11000;occ; 69; 0;28330
 18; 2569.7; 01-AUG-2007 05:53:35; Bright; 38.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 77; 0;28330
 19; 2796.7; 01-AUG-2007 05:57:22; Bright; 37.5; 69; 33Gam Dra ; 2.23; 3800;occ; 75; 0;28330
 20; 3035.9; 01-AUG-2007 06:01:21; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;28330
 21; 3285.4; 01-AUG-2007 06:05:31; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;28330
 22; 3441.2; 01-AUG-2007 06:08:07; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28330

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 2; 1557.1; 01-AUG-2007 20:42:06; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;28339
 3; 2145.4; 01-AUG-2007 20:51:54; Bright; 33.5; 168; 17Zet Aql ; 2.99; 11000;occ; 67; 0;28339
 4; 2570.3; 01-AUG-2007 20:58:59; Bright; 33.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 67; 0;28339
 5; 2798.1; 01-AUG-2007 21:02:47; Bright; 38.5; 69; 33Gam Dra ; 2.23; 3800;occ; 77; 0;28339

6; 3038.7; 01-AUG-2007 21:06:48; Bright; 29.0; 119; 14Eta Dra ; 2.73; 4700;occ; 58; 0;28339
7; 3287.8; 01-AUG-2007 21:10:57; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;28339
8; 3441.0; 01-AUG-2007 21:13:30; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28339
9; 4212.8; 01-AUG-2007 21:26:22; Bright; 45.5; 42; 34Bet Aur ; 1.90; 10200;occ; 91; 0;28339
10; 4347.2; 01-AUG-2007 21:28:36; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;28339
11; 4641.0; 01-AUG-2007 21:33:30; Dark ; 37.5; 176; 23Zet Tau ; 3.02; 22000;occ; 75; 0;28339
12; 4860.9; 01-AUG-2007 21:37:10; Dark ; 37.5; 14; 58Alp Ori ; 0.87; 3000;occ; 75; 0;28339
13; 5026.4; 01-AUG-2007 21:39:55; Dark ; 40.5; 30; 46Eps Ori ; 1.69; 30000;occ; 81; 0;28339
14; 5175.2; 01-AUG-2007 21:42:24; Dark ; 34.0; 7; 19Bet Ori ; 0.10; 14000;occ; 68; 0;28339
15; 5256.5; 01-AUG-2007 21:43:45; Dark ; 38.5; 47; 2Bet CMA ; 1.98; 28000;occ; 77; 0;28339

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2; -676.1; 01-AUG-2007 21:45:29; Dark ; 40.5; 139; 9Bet Lep ; 2.83; 5600;occ; 81; 0;28339
3; -578.3; 01-AUG-2007 21:47:07; Dark ; 37.0; 177; 1Zet CMA ; 3.02; 26000;occ; 74; 0;28339
4; -481.5; 01-AUG-2007 21:48:43; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28339
5; 274.2; 01-AUG-2007 22:01:19; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;28340
6; 427.5; 01-AUG-2007 22:03:52; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;28340
7; 720.9; 01-AUG-2007 22:08:46; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;28340
8; 913.0; 01-AUG-2007 22:11:58; Dark ; 37.5; 45; Alp Pav ; 1.94; 26000;occ; 75; 0;28340
9; 1414.5; 01-AUG-2007 22:20:19; Dark ; 42.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 84; 0;28340
10; 1557.2; 01-AUG-2007 22:22:42; Bright; 36.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 73; 0;28340
11; 2145.4; 01-AUG-2007 22:32:30; Bright; 35.0; 168; 17Zet Aql ; 2.99; 11000;occ; 70; 0;28340
12; 2570.4; 01-AUG-2007 22:39:35; Bright; 34.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 68; 0;28340
13; 2798.2; 01-AUG-2007 22:43:23; Bright; 33.0; 69; 33Gam Dra ; 2.23; 3800;occ; 66; 0;28340
14; 3288.1; 01-AUG-2007 22:51:33; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;28340
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16; 4213.0; 01-AUG-2007 23:06:58; Bright; 34.5; 42; 34Bet Aur ; 1.90; 10200;occ; 69; 0;28340
17; 4347.5; 01-AUG-2007 23:09:12; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;28340
18; 4641.2; 01-AUG-2007 23:14:06; Dark ; 41.5; 176; 23Zet Tau ; 3.02; 22000;occ; 83; 0;28340
19; 4861.1; 01-AUG-2007 23:17:46; Dark ; 48.5; 14; 58Alp Ori ; 0.87; 3000;occ; 97; 0;28340
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21; 5153.6; 01-AUG-2007 23:22:38; Dark ; 39.5; 56; 53Kap Ori ; 2.07; 30000;occ; 79; 0;28340
22; 5256.8; 01-AUG-2007 23:24:22; Dark ; 39.5; 47; 2Bet CMA ; 1.98; 28000;occ; 79; 0;28340
23; 5360.2; 01-AUG-2007 23:26:05; Dark ; 42.0; 139; 9Bet Lep ; 2.83; 5600;occ; 84; 0;28340

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2; -578.3; 01-AUG-2007 23:27:42; Dark ; 38.5; 177; 1Zet CMA ; 3.02; 26000;occ; 77; 0;28340
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4;	1618.2;	31-AUG-2007	18:19:23;	Dark	;	52.5;	142;	49Del	Cap	;	2.85;	8900;occ;	105;	0;	28767
5;	1806.7;	31-AUG-2007	18:22:31;	Bright;	38.0;	154;	22Bet	Aqr	;	2.90;	5700;occ;	76;	0;	28767	
6;	1896.0;	31-AUG-2007	18:24:01;	Bright;	40.0;	162;	34Alp	Aqr	;	2.94;	5350;occ;	80;	0;	28767	
7;	2076.0;	31-AUG-2007	18:27:01;	Bright;	38.5;	61;	8Eps	Peg	;	2.10;	3900;occ;	77;	0;	28767	
8;	2487.1;	31-AUG-2007	18:33:52;	Bright;	36.5;	92;	53Eps	Cyg	;	2.50;	4500;occ;	73;	0;	28767	
9;	2677.8;	31-AUG-2007	18:37:02;	Bright;	35.5;	19;	50Alp	Cyg	;	1.25;	10500;occ;	71;	0;	28767	
10;	2976.8;	31-AUG-2007	18:42:01;	Bright;	37.5;	89;	5Alp	Cep	;	2.45;	8000;occ;	75;	0;	28767	
11;	3434.8;	31-AUG-2007	18:49:39;	Bright;	36.5;	49;	1Alp	UMi	;	1.99;	6300;occ;	73;	0;	28767	
12;	4451.2;	31-AUG-2007	19:06:36;	Bright;	37.0;	24;	66Alp	Gem	;	1.58;	10200;occ;	74;	0;	28767	
13;	4609.9;	31-AUG-2007	19:09:15;	Dark	;	49.0;	170;	27Eps	Gem	;	3.00;	9700;occ;	98;	0;	28767
14;	4788.5;	31-AUG-2007	19:12:13;	Dark	;	49.5;	44;	24Gam	Gem	;	1.93;	11000;occ;	99;	0;	28767
15;	4911.7;	31-AUG-2007	19:14:16;	Dark	;	45.5;	8;	10Alp	CMI	;	0.40;	6500;occ;	91;	0;	28767
16;	5368.3;	31-AUG-2007	19:21:53;	Dark	;	54.0;	1;	9Alp	CMA	;	-1.44;	11000;occ;	108;	0;	28767
17;	5534.9;	31-AUG-2007	19:24:40;	Dark	;	43.5;	23;	21Eps	CMA	;	1.50;	26000;occ;	87;	0;	28767
18;	5633.9;	31-AUG-2007	19:26:19;	Dark	;	42.0;	177;	1Zet	CMA	;	3.02;	26000;occ;	84;	0;	28767
19;	5729.2;	31-AUG-2007	19:27:54;	Dark	;	59.0;	0;	;	;	0.00;	0;occ;	118;	0;	28767	
20;	6558.1;	31-AUG-2007	19:41:43;	Dark	;	40.0;	143;	Alp	Hyi	;	2.86;	7200;occ;	80;	0;	28767
21;	6634.5;	31-AUG-2007	19:42:59;	Dark	;	44.5;	9;	Alp	Eri	;	0.45;	24000;occ;	89;	0;	28767
22;	6992.3;	31-AUG-2007	19:48:57;	Dark	;	42.0;	84;	Alp	Phe	;	2.40;	4500;occ;	84;	0;	28767