

GOMOS Daily Report 26-AUG-2007

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

[2. Summary of products arrived in PCF \(Product Control Facility\)](#)

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

[3. Plot of Spectrometers and Photometers temperatures](#)

[4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

[5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

[6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

[7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

[Level 2 products](#)

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	28AUG2007 05:45:27
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (26AUG2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (27AUG2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	46
Nb of prods with errors	1

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

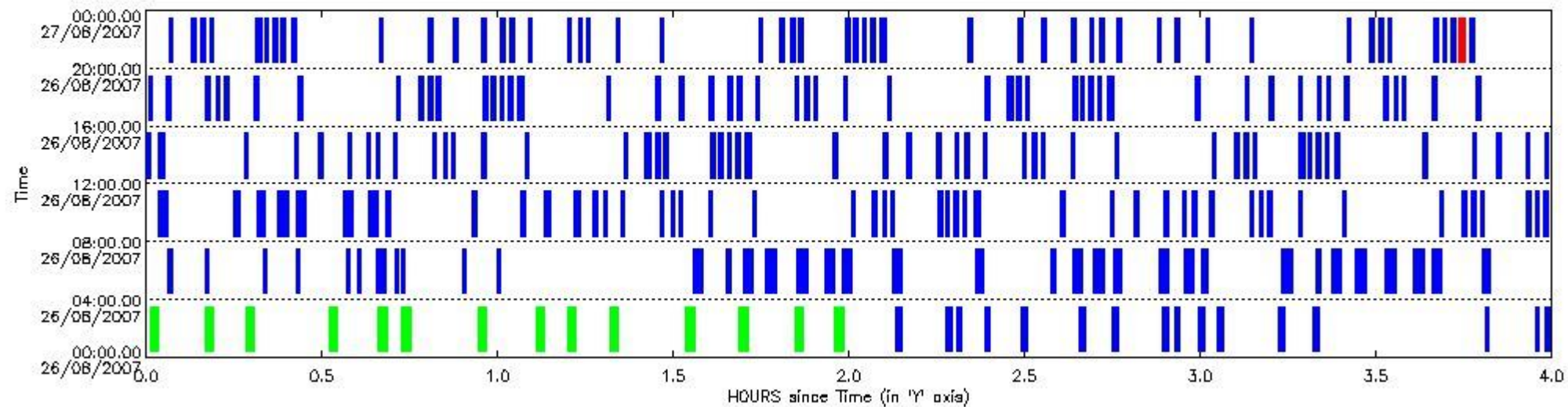
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

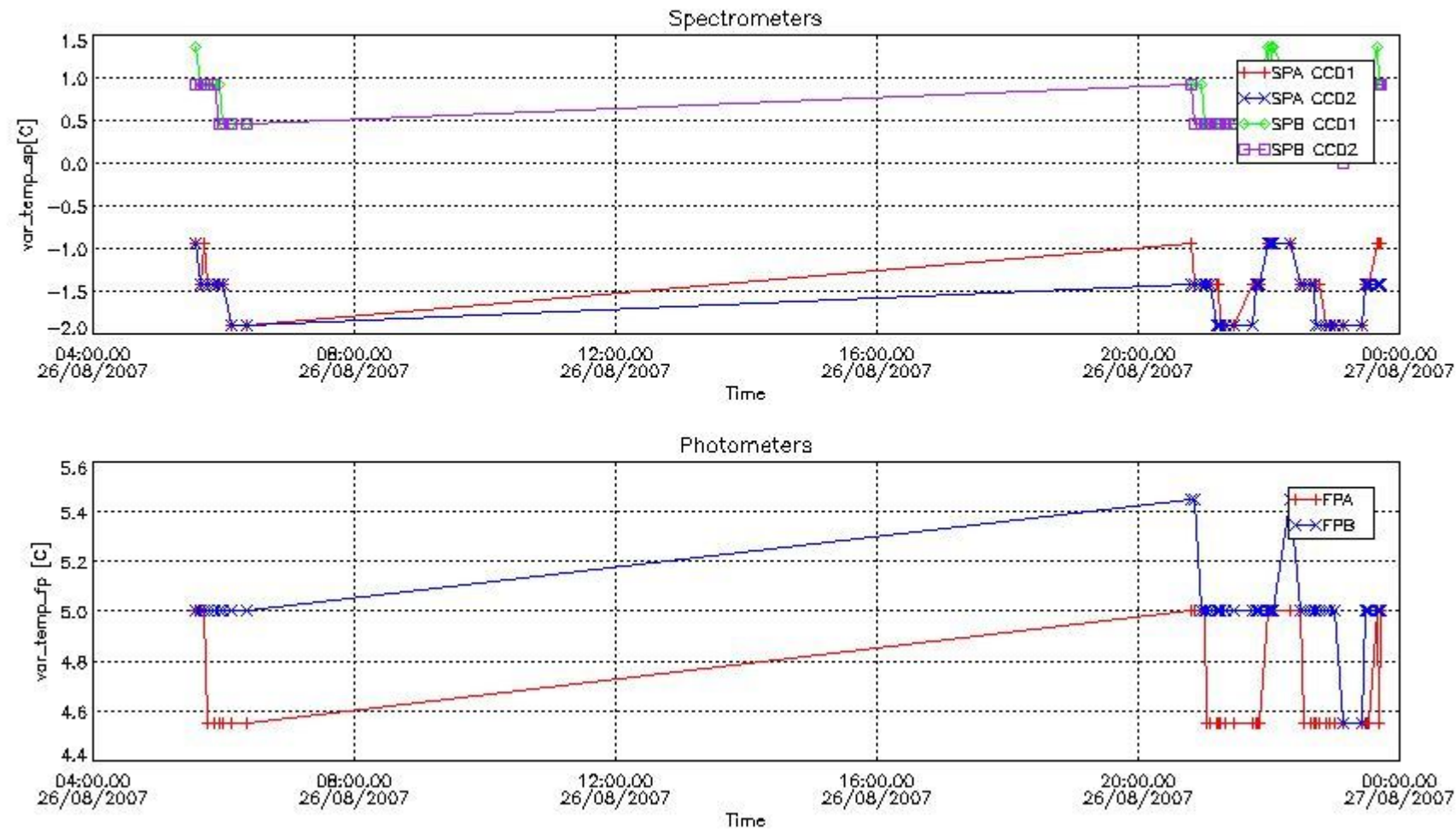
UTC start time	Star name	Star ID	Orbit
26-AUG-2007 23:44:08	1ZetCMa	177	28698

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_1PNPDE20070826_053320_000000982061_00077_28688_1936.N1	26-AUG-2007 05:33:20	Dark	97.500	9	Alp Eri	0.45300	24000.	195	28688	No
2	GOM_TRA_1PNPDE20070826_053908_000000432061_00077_28688_1937.N1	26-AUG-2007 05:39:08	Dark	43.000	84	Alp Phe	2.3970	4500.0	86	28688	Yes
3	GOM_TRA_1PNPDE20070826_054155_000000922061_00077_28688_1938.N1	26-AUG-2007 05:41:55	Straylight	91.500	31	Alp Gru	1.7340	15200.	183	28688	No
4	GOM_TRA_1PNPDE20070826_054550_000001112061_00077_28688_1939.N1	26-AUG-2007 05:45:50	Straylight	110.50	18	24Alp PsA	1.1660	9700.0	221	28688	No
5	GOM_TRA_1PNPDE20070826_055101_000001092061_00077_28688_1940.N1	26-AUG-2007 05:51:01	Bright	109.00	142	49Del Cap	2.8500	8900.0	218	28688	No
6	GOM_TRA_1PNPDE20070826_055549_000001012061_00077_28688_1941.N1	26-AUG-2007 05:55:49	Bright	101.00	162	34Alp Aqr	2.9440	5350.0	202	28688	No
7	GOM_TRA_1PNPDE20070826_055854_000000952061_00077_28688_1942.N1	26-AUG-2007 05:58:54	Bright	95.000	61	8Eps Peg	2.1000	3900.0	190	28688	No
8	GOM_TRA_1PNPDE20070826_060730_000000872061_00077_28688_1943.N1	26-AUG-2007 06:07:30	Bright	86.500	66	37Gam Cyg	2.2080	5900.0	173	28688	No
9	GOM_TRA_1PNPDE20070826_062131_000000862061_00077_28688_1944.N1	26-AUG-2007 06:21:31	Bright	85.500	49	1Alp UMi	1.9900	6300.0	171	28688	No
10	GOM_TRA_1PNPDE20070826_204813_000000392061_00086_28697_2318.N1	26-AUG-2007 20:48:13	Straylight	39.000	31	Alp Gru	1.7340	15200.	78	28697	No

11	GOM_TRA_1PNPDE20070826_205216_00000522061_00086_28697_2319.N1	26-AUG-2007 20:52:16	Straylight	52.000	18	24Alp PsA	1.1660	9700.0	104	28697	No
12	GOM_TRA_1PNPDE20070826_205719_000000442061_00086_28697_2320.N1	26-AUG-2007 20:57:19	Bright	44.000	142	49Del Cap	2.8500	8900.0	88	28697	No
13	GOM_TRA_1PNPDE20070826_210032_000000392061_00086_28697_2321.N1	26-AUG-2007 21:00:32	Bright	38.500	154	22Bet Aqr	2.8990	5700.0	77	28697	No
14	GOM_TRA_1PNPDE20070826_210210_000000422061_00086_28697_2322.N1	26-AUG-2007 21:02:10	Bright	42.000	162	34Alp Aqr	2.9440	5350.0	84	28697	No
15	GOM_TRA_1PNPDE20070826_210513_000000392061_00086_28697_2323.N1	26-AUG-2007 21:05:13	Bright	39.000	61	8Eps Peg	2.1000	3900.0	78	28697	No
16	GOM_TRA_1PNPDE20070826_211157_000000382061_00086_28697_2324.N1	26-AUG-2007 21:11:57	Bright	38.000	92	53Eps Cyg	2.5000	4500.0	76	28697	No
17	GOM_TRA_1PNPDE20070826_211344_000000362061_00086_28697_2325.N1	26-AUG-2007 21:13:44	Bright	36.000	66	37Gam Cyg	2.2080	5900.0	72	28697	No
18	GOM_TRA_1PNPDE20070826_211508_000000362061_00086_28697_2326.N1	26-AUG-2007 21:15:08	Bright	35.500	19	50Alp Cyg	1.2460	10500.	71	28697	No
19	GOM_TRA_1PNPDE20070826_212016_000000382061_00086_28697_2327.N1	26-AUG-2007 21:20:16	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	28697	No
20	GOM_TRA_1PNPDE20070826_212746_000000372061_00086_28697_2328.N1	26-AUG-2007 21:27:46	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	28697	No
21	GOM_TRA_1PNPDE20070826_214431_000000362061_00086_28697_2329.N1	26-AUG-2007 21:44:31	Bright	35.500	24	66Alp Gem	1.5800	10200.	71	28697	No
22	GOM_TRA_1PNPDE20070826_214813_000000492061_00086_28697_2330.N1	26-AUG-2007 21:48:13	Twilight	49.000	151	13Mu Gem	2.8900	3000.0	98	28697	No
23	GOM_TRA_1PNPDE20070826_214954_000000482061_00086_28697_2331.N1	26-AUG-2007 21:49:54	Twilight	47.500	44	24Gam Gem	1.9280	11000.	95	28697	No
24	GOM_TRA_1PNPDE20070826_215122_000000402061_00086_28697_2332.N1	26-AUG-2007 21:51:22	Twilight	39.500	153	3Bet CMi	2.8940	13100.	79	28697	No
25	GOM_TRA_1PNPDE20070826_215920_000000562061_00086_28697_2448.N1	26-AUG-2007 21:59:20	Dark	55.500	1	9Alp CMa	-1.4400	11000.	111	28697	No
26	GOM_TRA_1PNPDE20070826_220045_000000402061_00086_28697_2449.N1	26-AUG-2007 22:00:45	Dark	40.000	179	24Omi2CMa	3.0320	24000.	80	28697	No
27	GOM_TRA_1PNPDE20070826_220213_000000432061_00086_28697_2450.N1	26-AUG-2007 22:02:13	Dark	42.500	23	21Eps CMa	1.5020	26000.	85	28697	No
28	GOM_TRA_1PNPDE20070826_220339_000000412061_00086_28697_2451.N1	26-AUG-2007 22:03:39	Dark	41.000	177	1Zet CMa	3.0220	26000.	82	28697	No
29	GOM_TRA_1PNPDE20070826_222021_000000462061_00087_28698_2452.N1	26-AUG-2007 22:20:21	Dark	45.500	9	Alp Eri	0.45300	24000.	91	28698	No
30	GOM_TRA_1PNPDE20070826_222850_000000422061_00087_28698_2453.N1	26-AUG-2007 22:28:50	Straylight	42.000	31	Alp Gru	1.7340	15200.	84	28698	No
31	GOM_TRA_1PNPDE20070826_223252_000000502061_00087_28698_2454.N1	26-AUG-2007 22:32:52	Straylight	49.500	18	24Alp PsA	1.1660	9700.0	99	28698	No
32	GOM_TRA_1PNPDE20070826_223755_000000442061_00087_28698_2455.N1	26-AUG-2007 22:37:55	Bright	43.500	142	49Del Cap	2.8500	8900.0	87	28698	No
33	GOM_TRA_1PNPDE20070826_224108_000000392061_00087_28698_2456.N1	26-AUG-2007 22:41:08	Bright	39.000	154	22Bet Aqr	2.8990	5700.0	78	28698	No
34	GOM_TRA_1PNPDE20070826_224246_000000422061_00087_28698_2457.N1	26-AUG-2007 22:42:46	Bright	42.000	162	34Alp Aqr	2.9440	5350.0	84	28698	No
35	GOM_TRA_1PNPDE20070826_224548_000000412061_00087_28698_2458.N1	26-AUG-2007 22:45:48	Bright	41.000	61	8Eps Peg	2.1000	3900.0	82	28698	No
36	GOM_TRA_1PNPDE20070826_225232_000000362061_00087_28698_2459.N1	26-AUG-2007 22:52:32	Bright	35.500	92	53Eps Cyg	2.5000	4500.0	71	28698	No
37	GOM_TRA_1PNPDE20070826_225544_000000372061_00087_28698_2460.N1	26-AUG-2007 22:55:44	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	28698	No
38	GOM_TRA_1PNPDE20070826_230052_000000352061_00087_28698_2461.N1	26-AUG-2007 23:00:52	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	28698	No
39	GOM_TRA_1PNPDE20070826_230822_000000362061_00087_28698_2462.N1	26-AUG-2007 23:08:22	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	28698	No
40	GOM_TRA_1PNPDE20070826_232507_000000352061_00087_28698_2463.N1	26-AUG-2007 23:25:07	Bright	35.000	24	66Alp Gem	1.5800	10200.	70	28698	No
41	GOM_TRA_1PNPDE20070826_232849_000000552061_00087_28698_2464.N1	26-AUG-2007 23:28:49	Twilight	55.000	151	13Mu Gem	2.8900	3000.0	110	28698	No
42	GOM_TRA_1PNPDE20070826_233030_000000502061_00087_28698_2465.N1	26-AUG-2007 23:30:30	Twilight	49.500	44	24Gam Gem	1.9280	11000.	99	28698	No
43	GOM_TRA_1PNPDE20070826_233159_000000402061_00087_28698_2466.N1	26-AUG-2007 23:31:59	Twilight	39.500	153	3Bet CMi	2.8940	13100.	79	28698	No
44	GOM_TRA_1PNPDE20070826_233956_000000452061_00087_28698_2586.N1	26-AUG-2007 23:39:56	Dark	45.000	1	9Alp CMa	-1.4400	11000.	90	28698	No
45	GOM_TRA_1PNPDE20070826_234121_000000402061_00087_28698_2587.N1	26-AUG-2007 23:41:21	Dark	39.500	179	24Omi2CMa	3.0320	24000.	79	28698	No
46	GOM_TRA_1PNPDE20070826_234249_000000442061_00087_28698_2588.N1	26-AUG-2007 23:42:49	Dark	43.500	23	21Eps CMa	1.5020	26000.	87	28698	No

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



4. Overview of dark signal processing per product

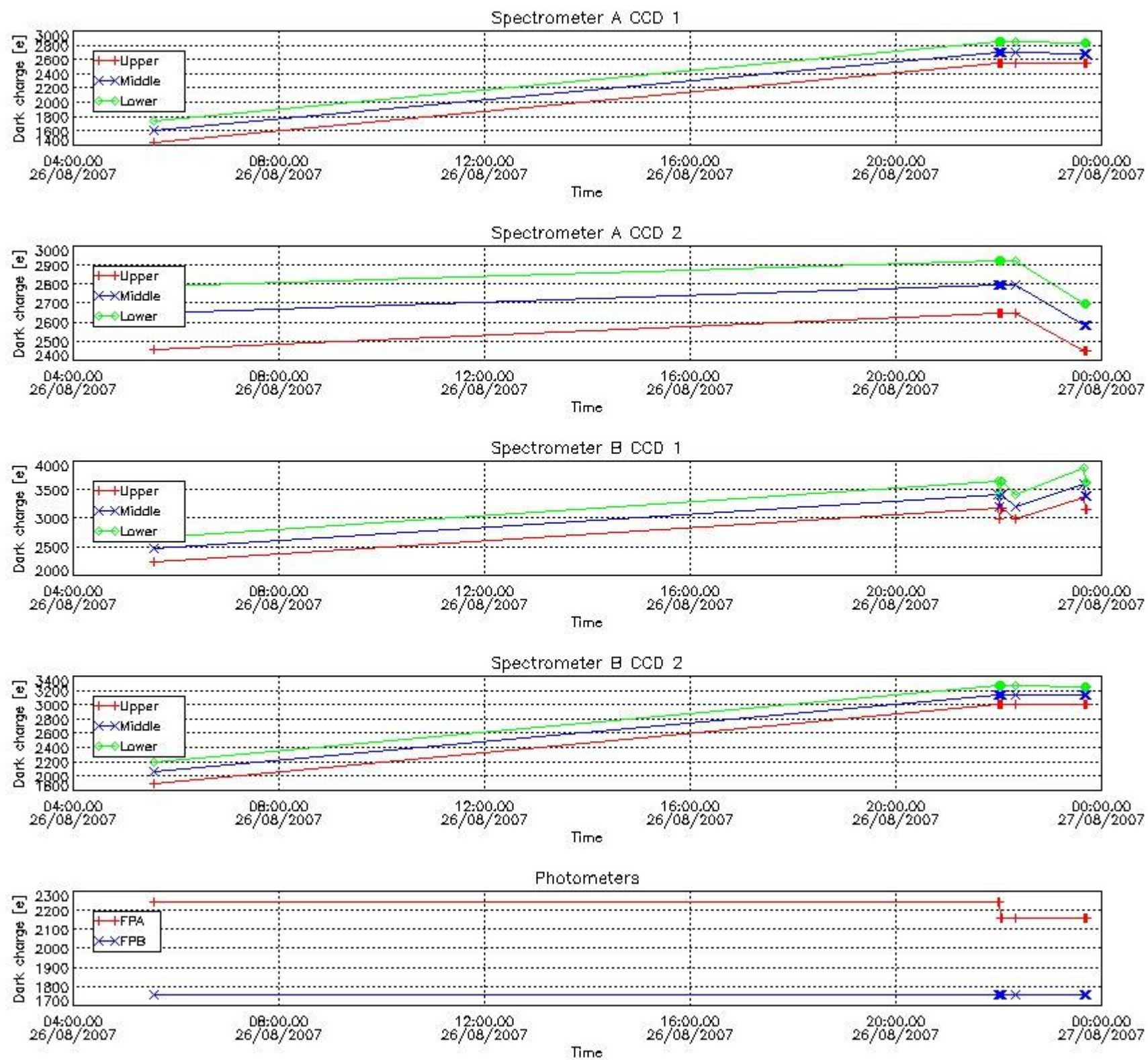
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20070826_204813_000000392061_00086_28697_2318.N1	DC map used
GOM_TRA_1PNPDE20070826_205216_000000522061_00086_28697_2319.N1	DC map used
GOM_TRA_1PNPDE20070826_205719_000000442061_00086_28697_2320.N1	DC map used
GOM_TRA_1PNPDE20070826_210032_000000392061_00086_28697_2321.N1	DC map used
GOM_TRA_1PNPDE20070826_210210_000000422061_00086_28697_2322.N1	DC map used
GOM_TRA_1PNPDE20070826_210513_000000392061_00086_28697_2323.N1	DC map used
GOM_TRA_1PNPDE20070826_211157_000000382061_00086_28697_2324.N1	DC map used
GOM_TRA_1PNPDE20070826_211344_000000362061_00086_28697_2325.N1	DC map used
GOM_TRA_1PNPDE20070826_211508_000000362061_00086_28697_2326.N1	DC map used
GOM_TRA_1PNPDE20070826_212016_000000382061_00086_28697_2327.N1	DC map used
GOM_TRA_1PNPDE20070826_212746_000000372061_00086_28697_2328.N1	DC map used
GOM_TRA_1PNPDE20070826_214431_000000362061_00086_28697_2329.N1	DC map used
GOM_TRA_1PNPDE20070826_214813_000000492061_00086_28697_2330.N1	DC map used
GOM_TRA_1PNPDE20070826_214954_000000482061_00086_28697_2331.N1	DC map used

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



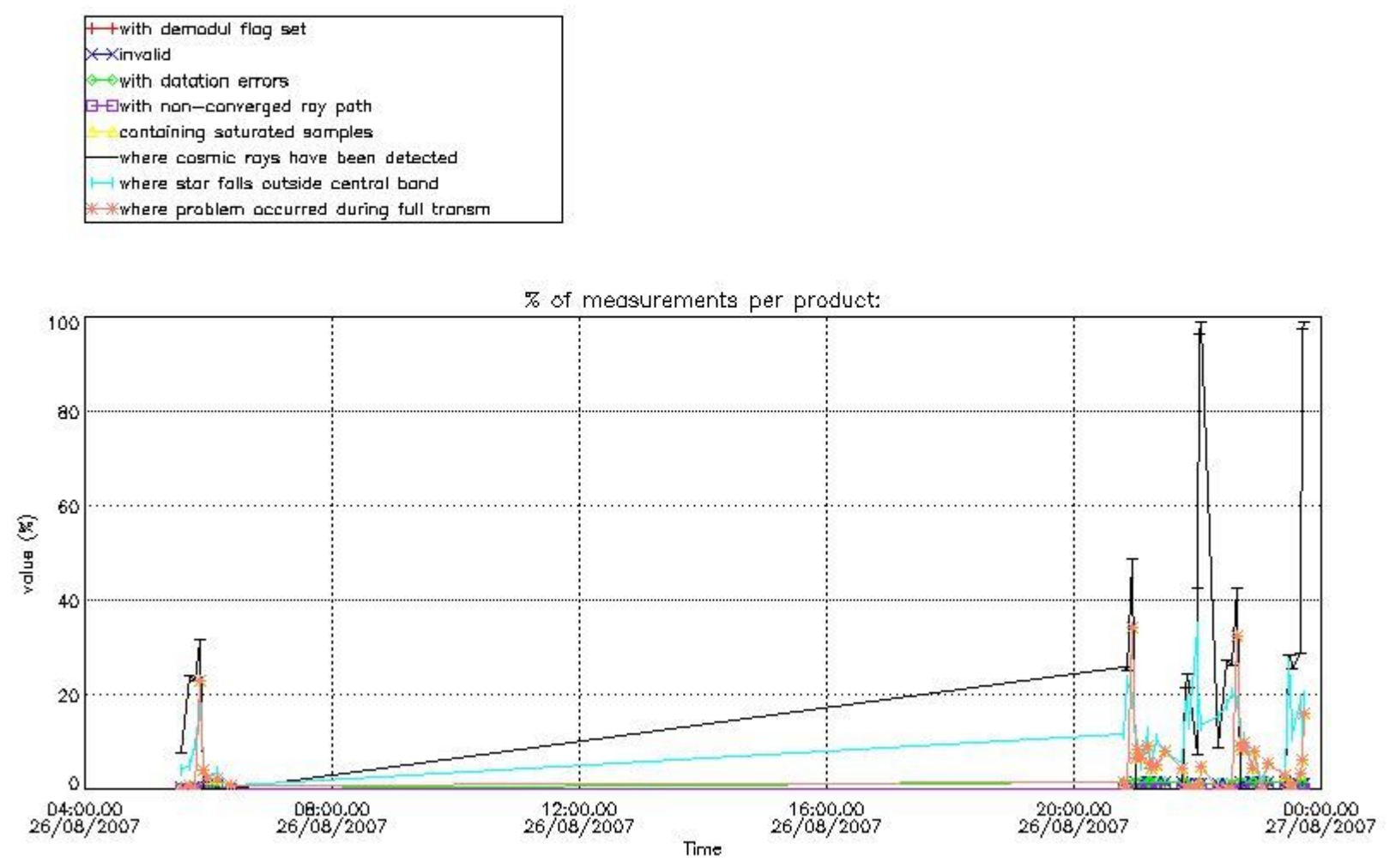
5. Demodulation flag and quality information monitoring

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.

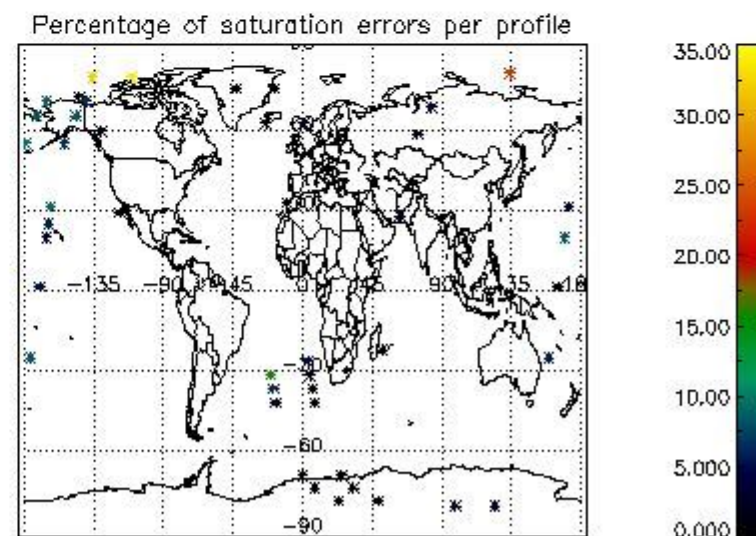
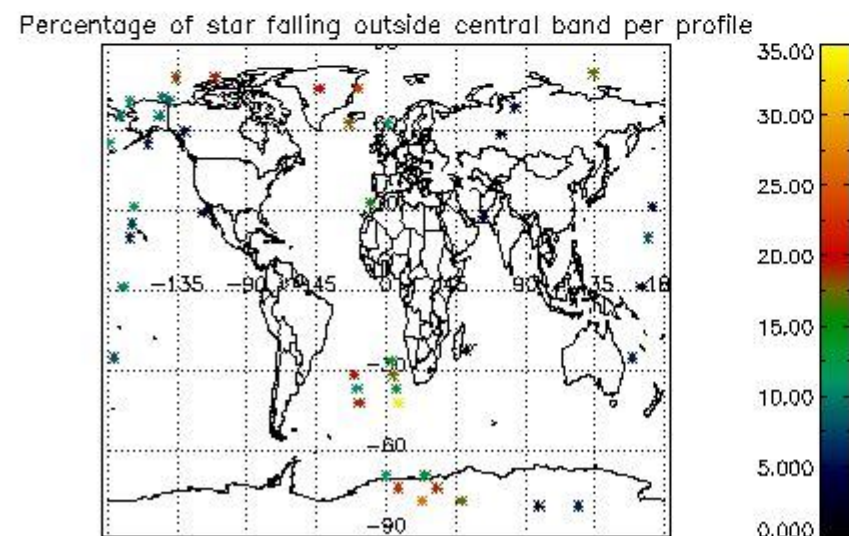
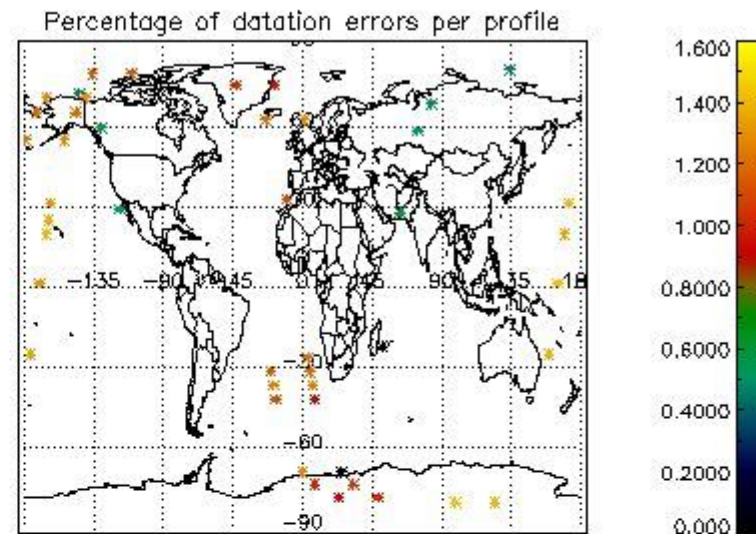
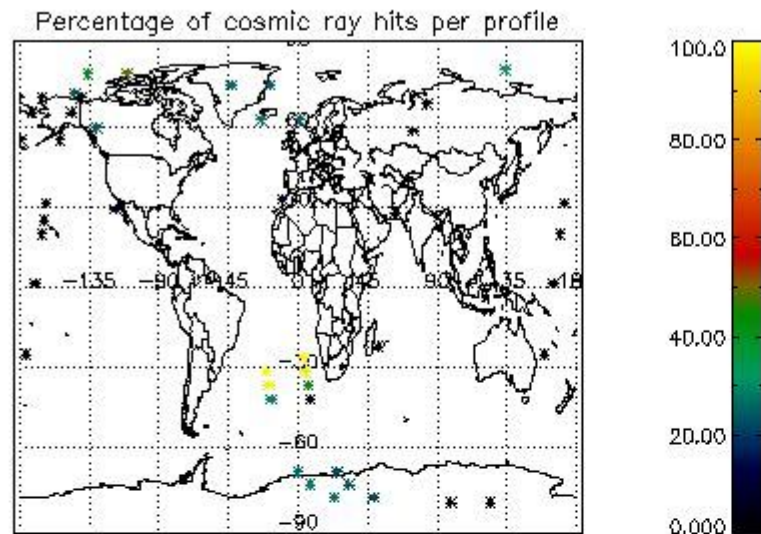
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	20.0000 %
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)



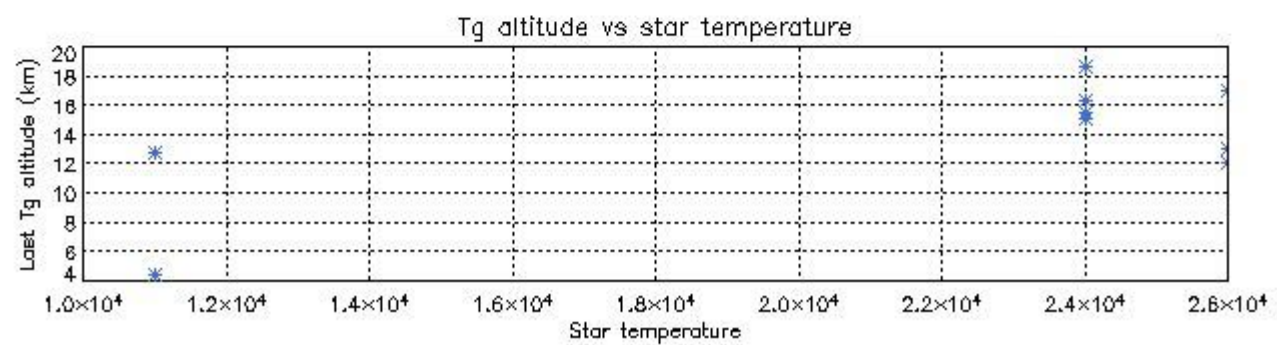
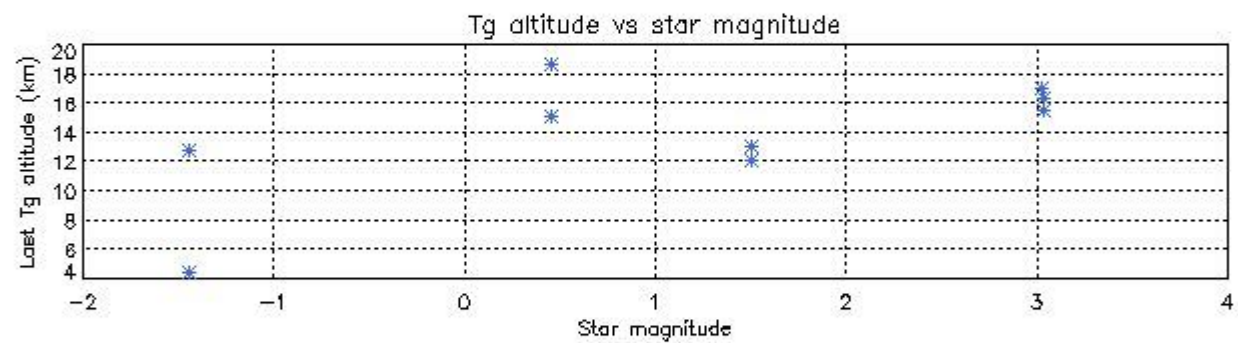
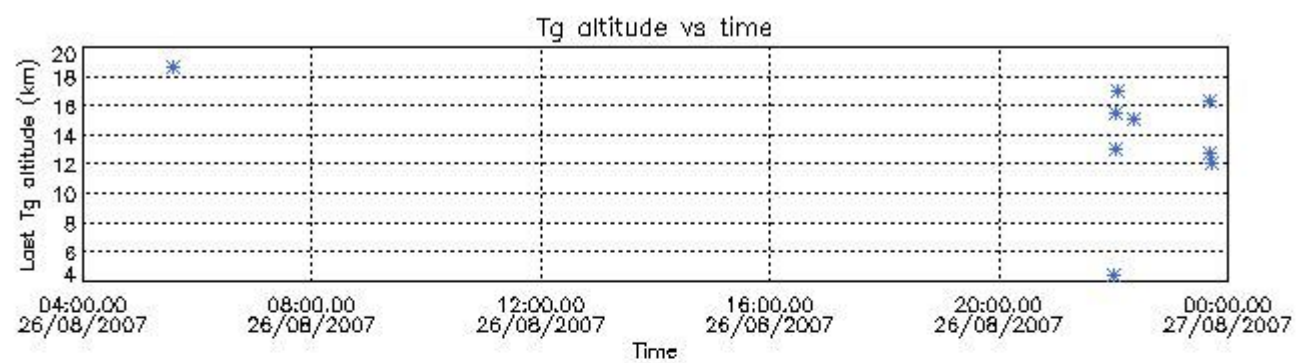
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.859	18.715	15.916
St. deviation:	4.1454	4.3867	0.10260
Maximum:	18.610	25.604	15.989
Minimum:	4.4020	4.2694	15.844
Number of data:	9.0000	24.000	2.0000

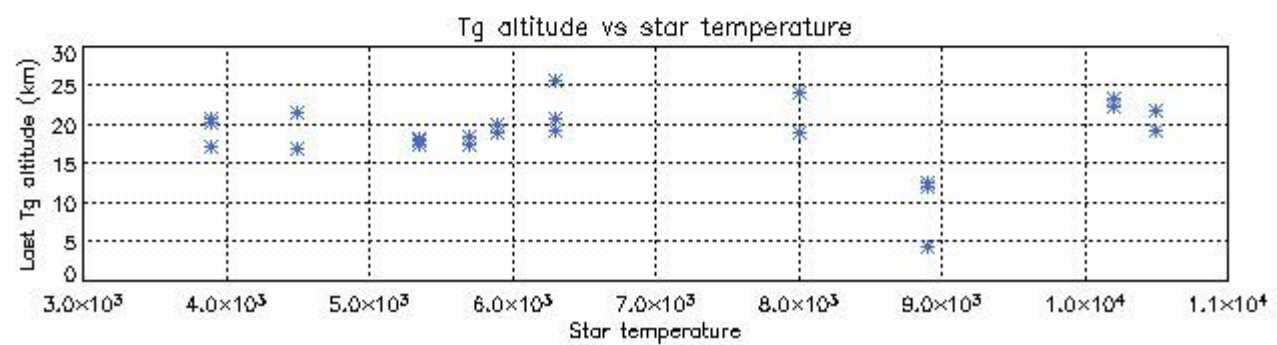
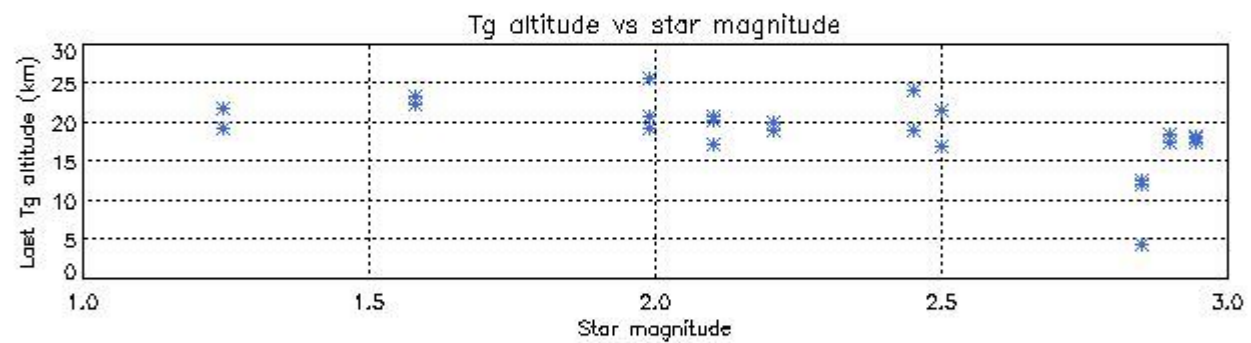
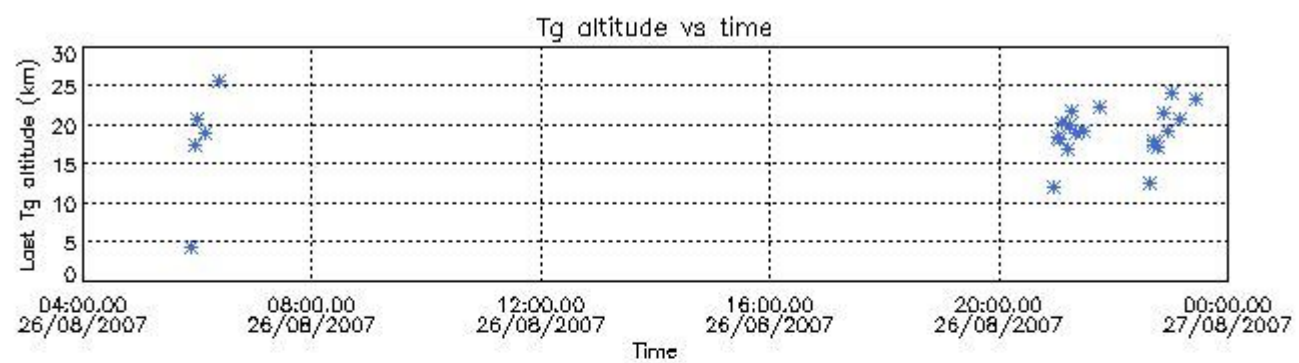
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



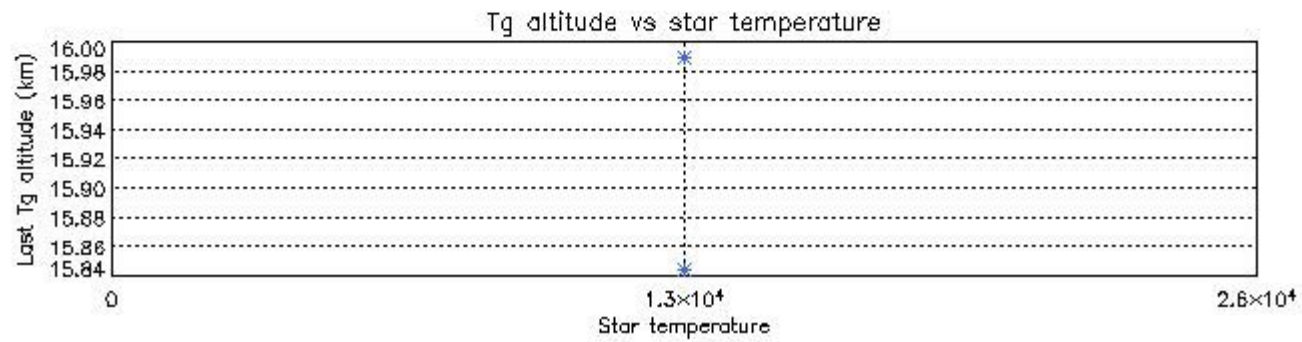
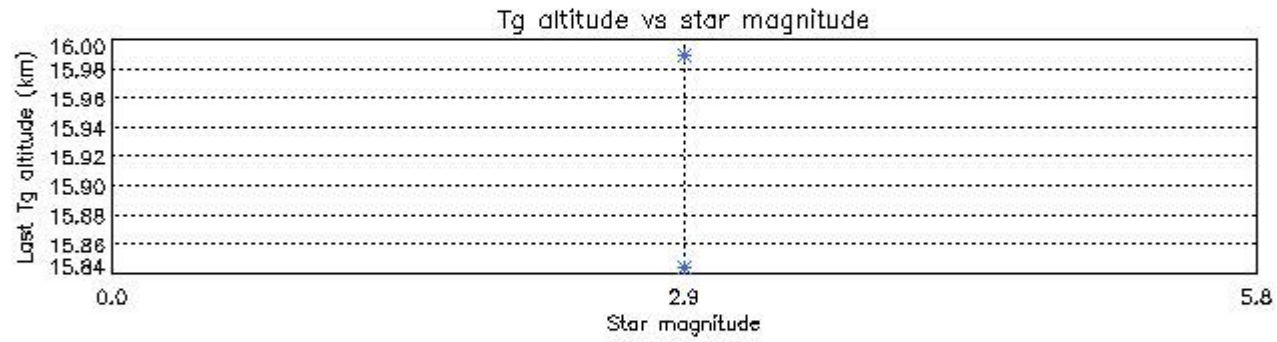
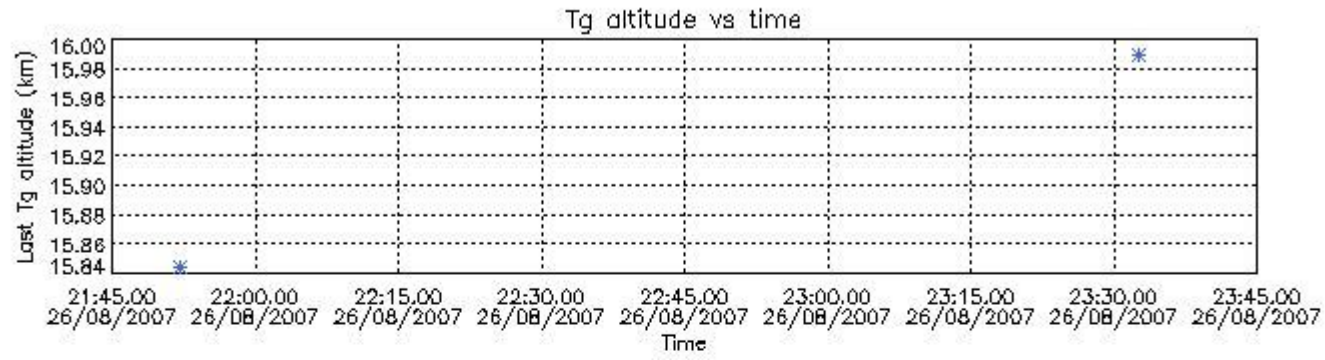
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

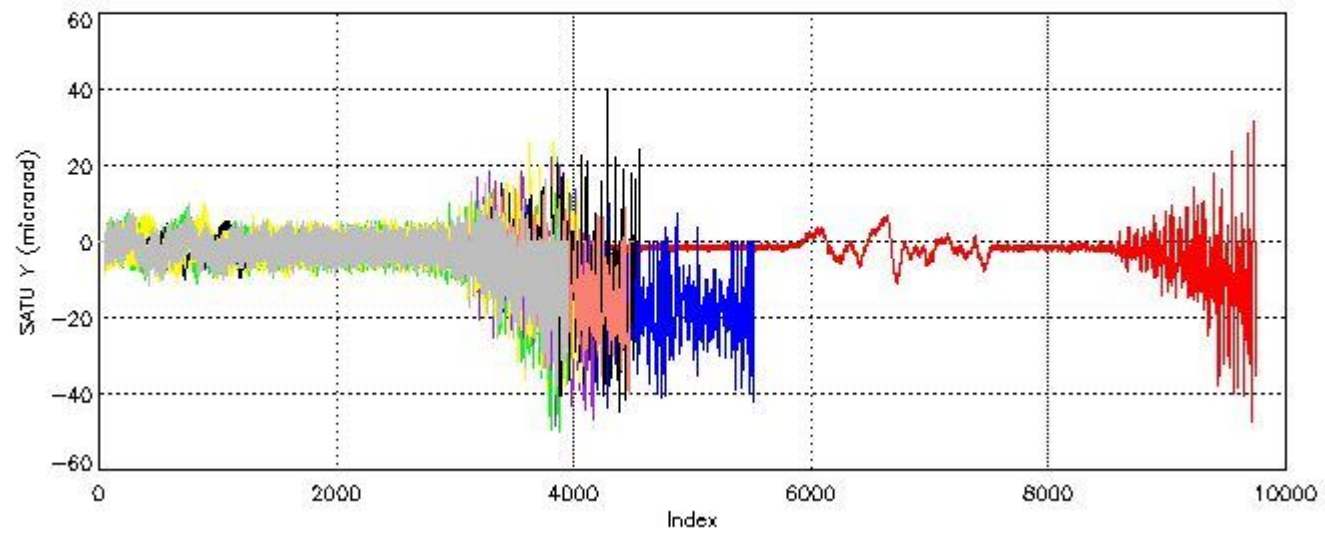
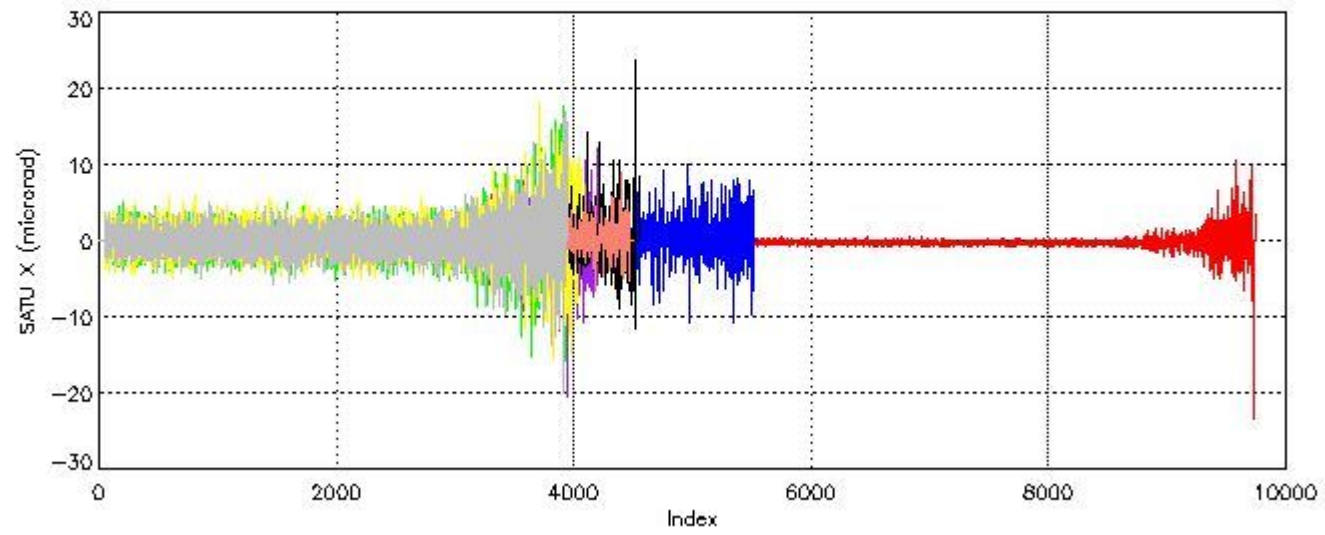


7. Star Acquisition and Tracking Unit (SATU)

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:	0.052439	-1.0596	0.13332	-1.2638
St. deviation:	0.76524	2.5311	0.68116	1.9304
Maximum:	6.0000	9.9000	8.4000	8.9000
Minimum:	-5.1000	-11.800	-5.0000	-9.6000

Number of data:	13900.	13900.	47150.	47150.
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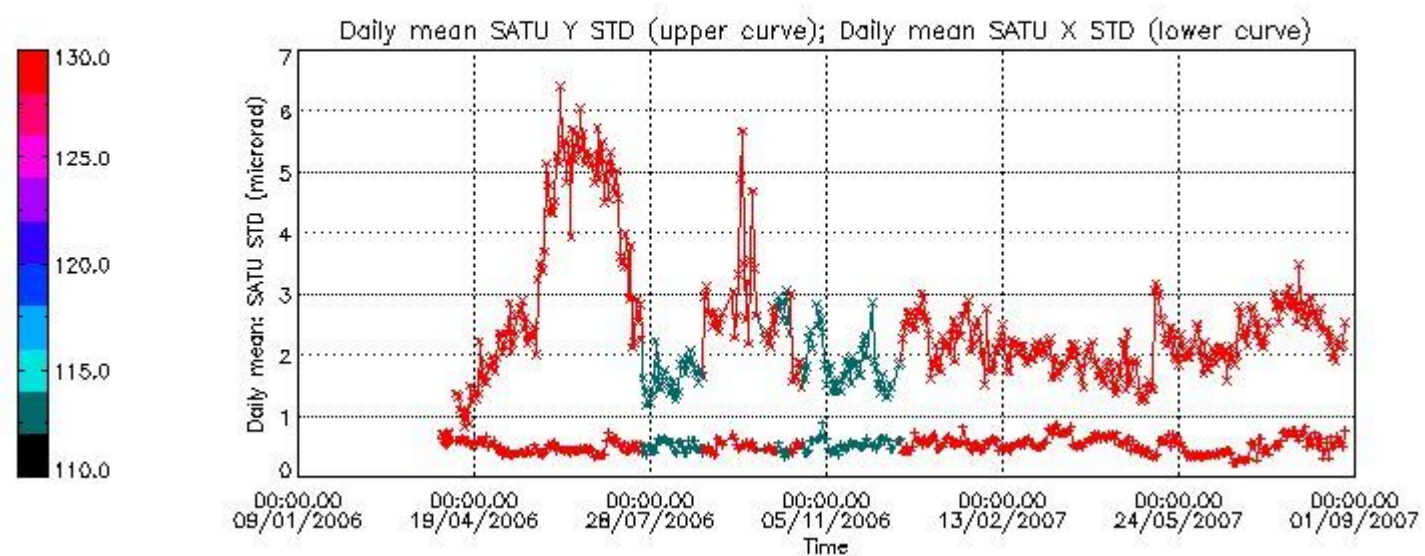
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

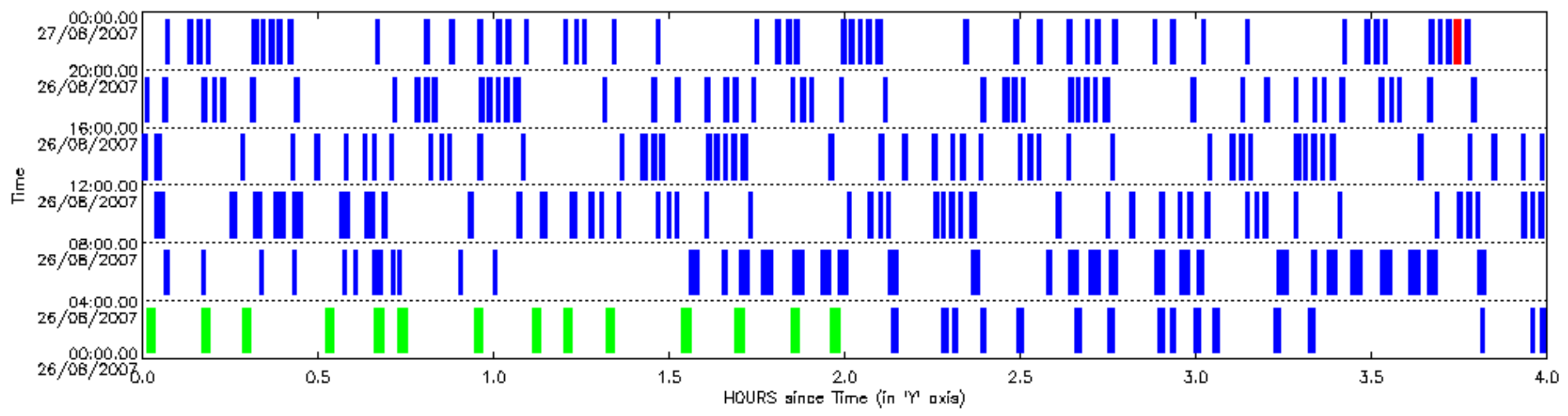
Lower curve: STD of SATU X axis

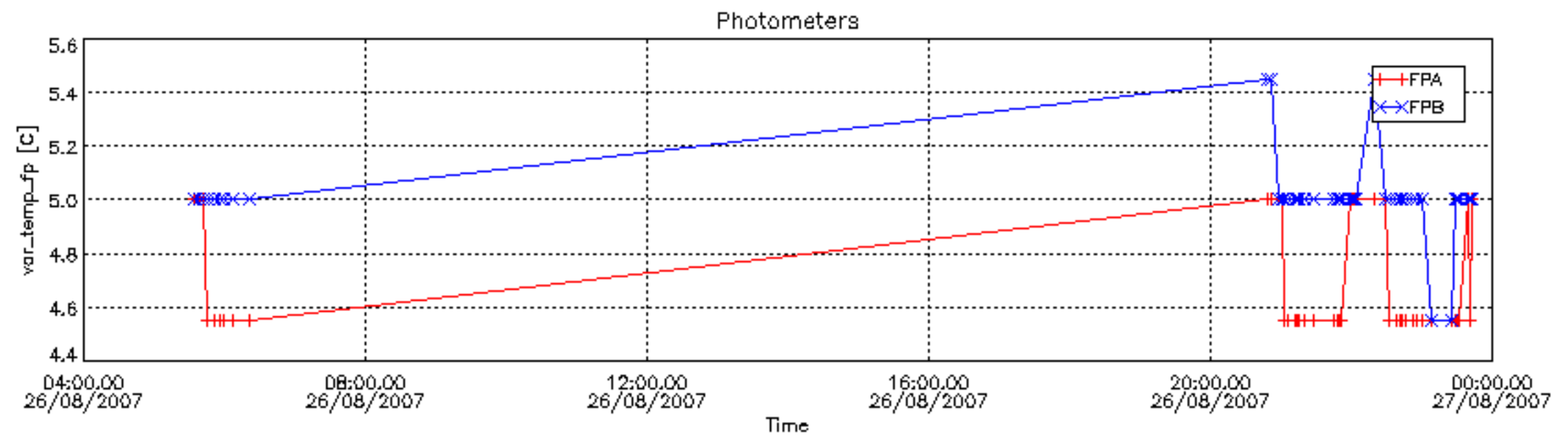
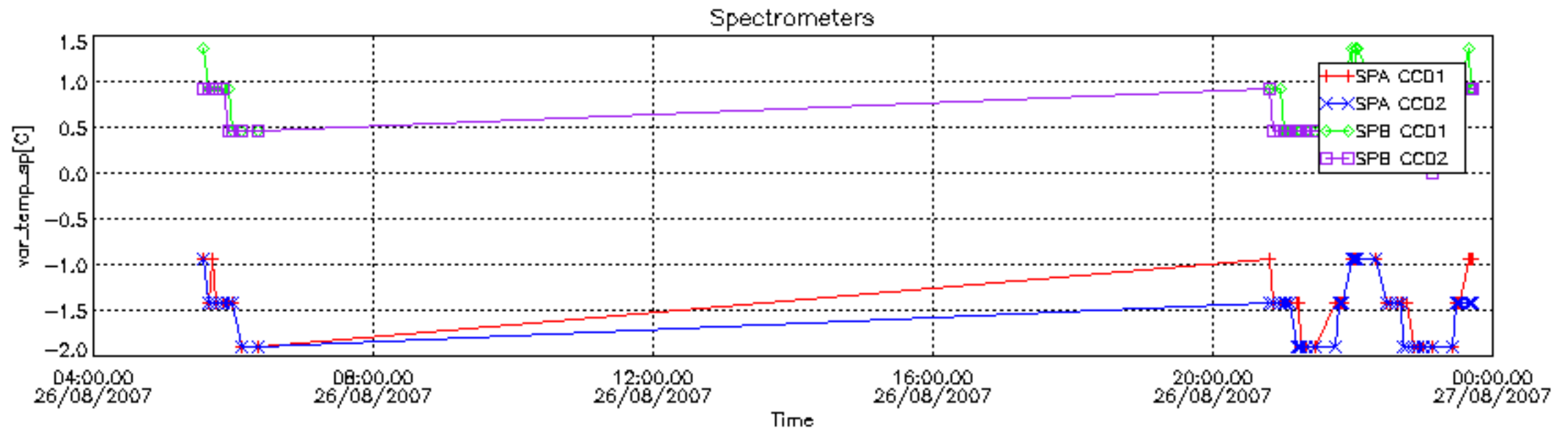


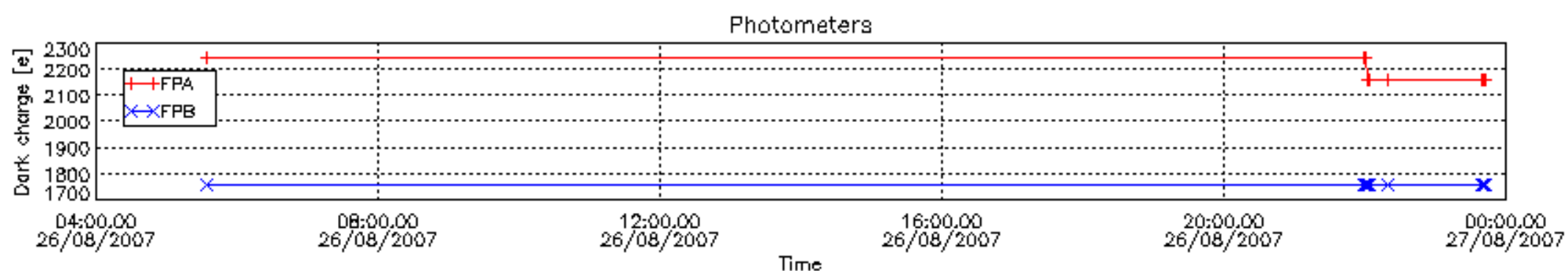
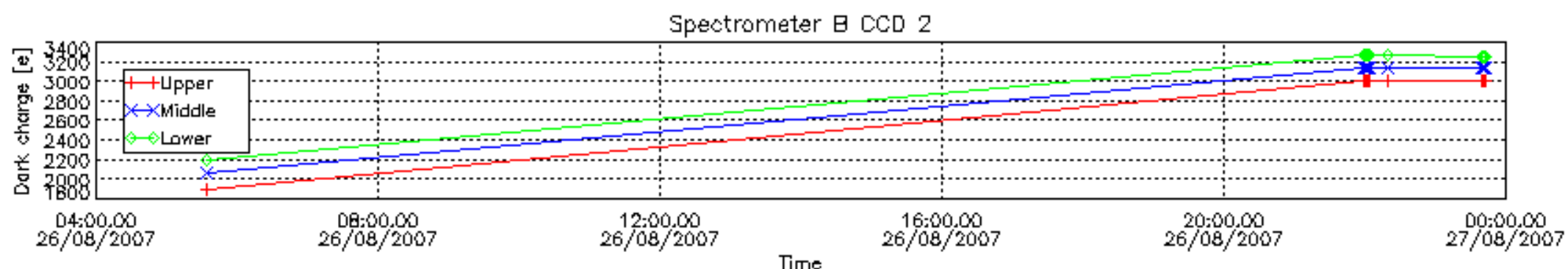
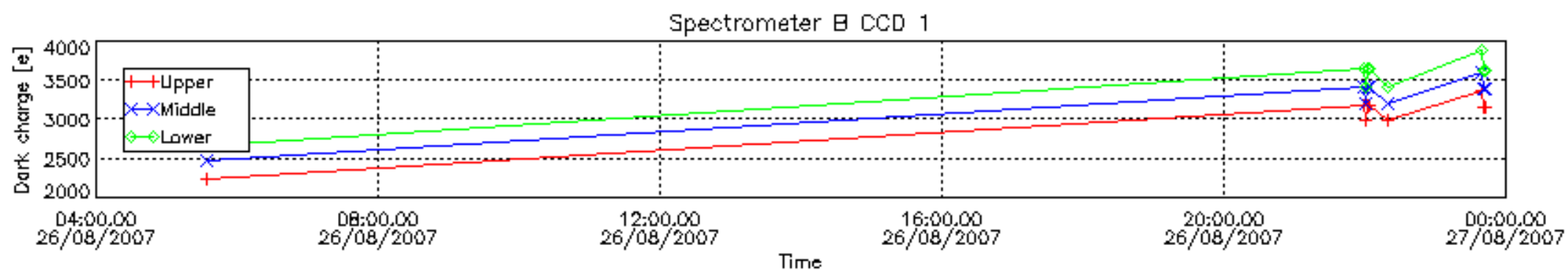
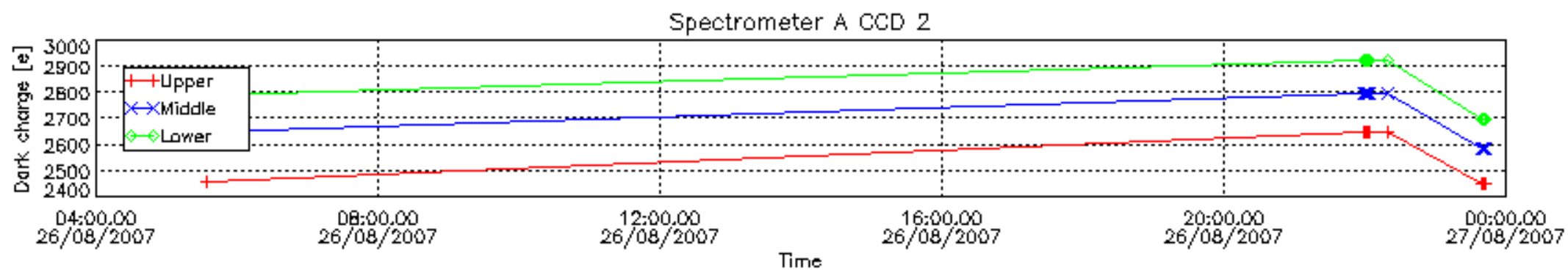
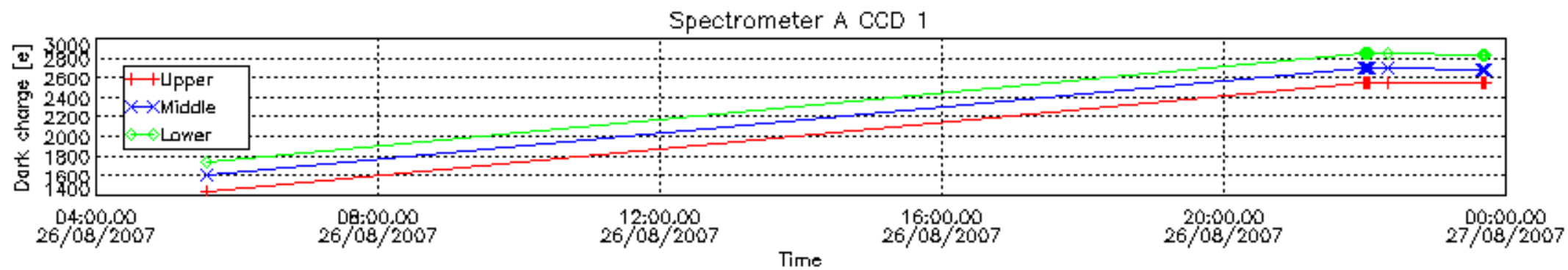
8. Auxiliary Data Files used for the production reported in section 2.4

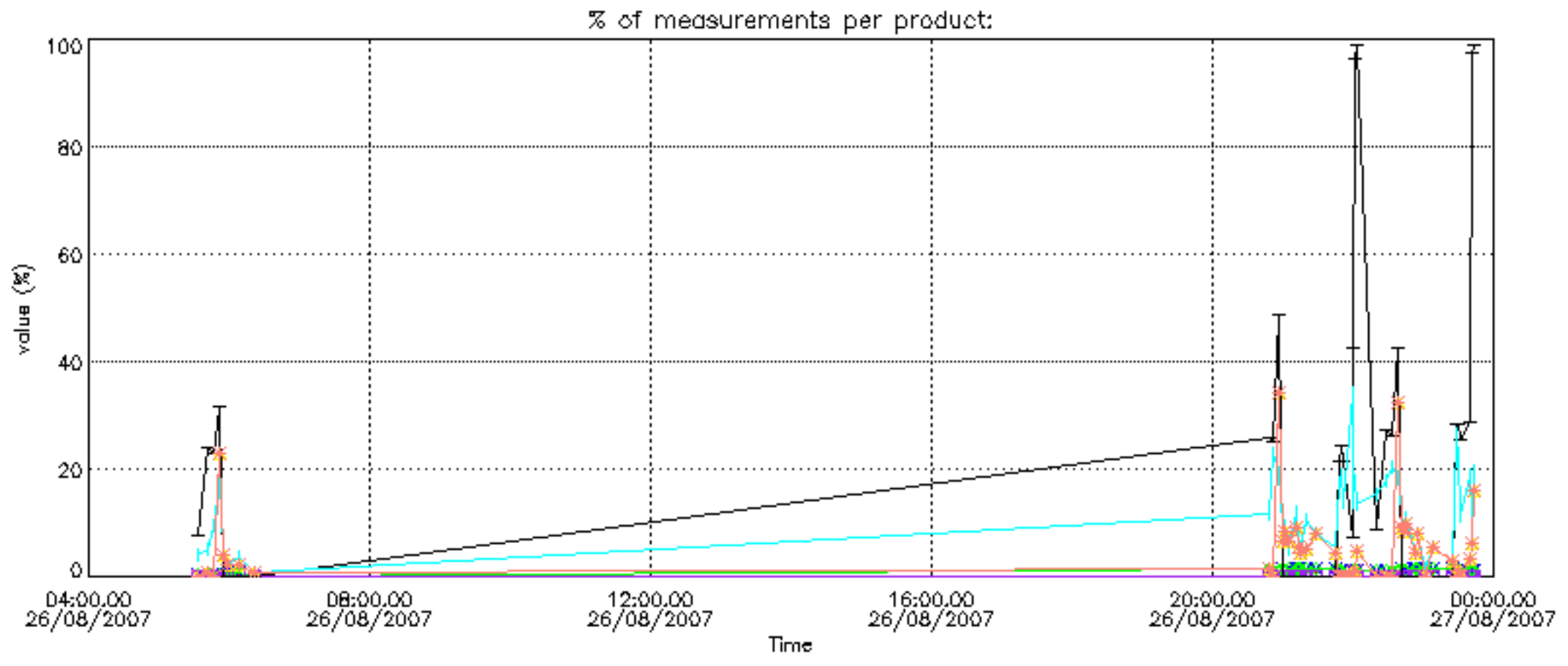
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	26-AUG-2007 05:33:20
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070822_085350_20070820_000000_20100101_000000	1	26-AUG-2007 05:33:20
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	26-AUG-2007 05:33:20
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	26-AUG-2007 05:33:20
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	26-AUG-2007 05:33:20
ECMWF_FILE	AUX_ECF_AXNECM20070825_182114_20070826_030000_20070826_150000	1	26-AUG-2007 05:33:20
ECMWF_FILE	MISSING	2	26-AUG-2007 05:39:08
ECMWF_FILE	AUX_ECF_AXNECM20070825_182114_20070826_030000_20070826_150000	3	26-AUG-2007 05:41:55
ECMWF_FILE	AUX_ECF_AXNECM20070826_062111_20070826_150000_20070827_030000	10	26-AUG-2007 20:48:13
ECMWF_FILE	AUX_ECF_AXNECM20070826_062112_20070826_210000_20070827_090000	25	26-AUG-2007 21:59:20
OPTIONAL_ECMWF_FILE	MISSING	1	26-AUG-2007 05:33:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070826_030217_000057382061_00075_28686_4046.N1	1	26-AUG-2007 05:33:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070826_204455_000038252061_00086_28697_4048.N1	10	26-AUG-2007 20:48:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070826_215359_000057382061_00086_28697_4049.N1	44	26-AUG-2007 23:39:56

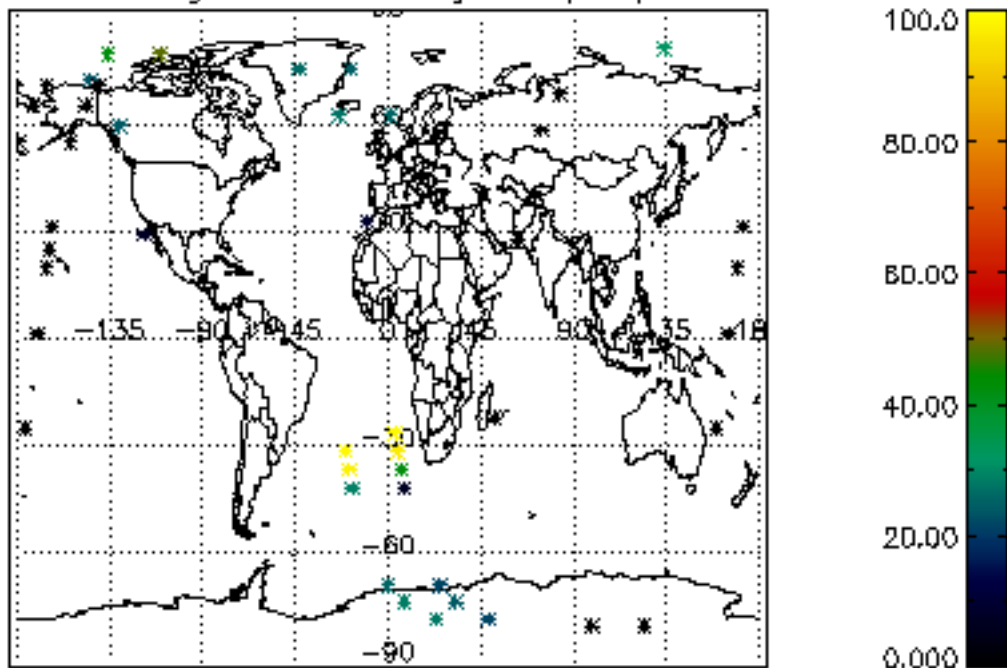




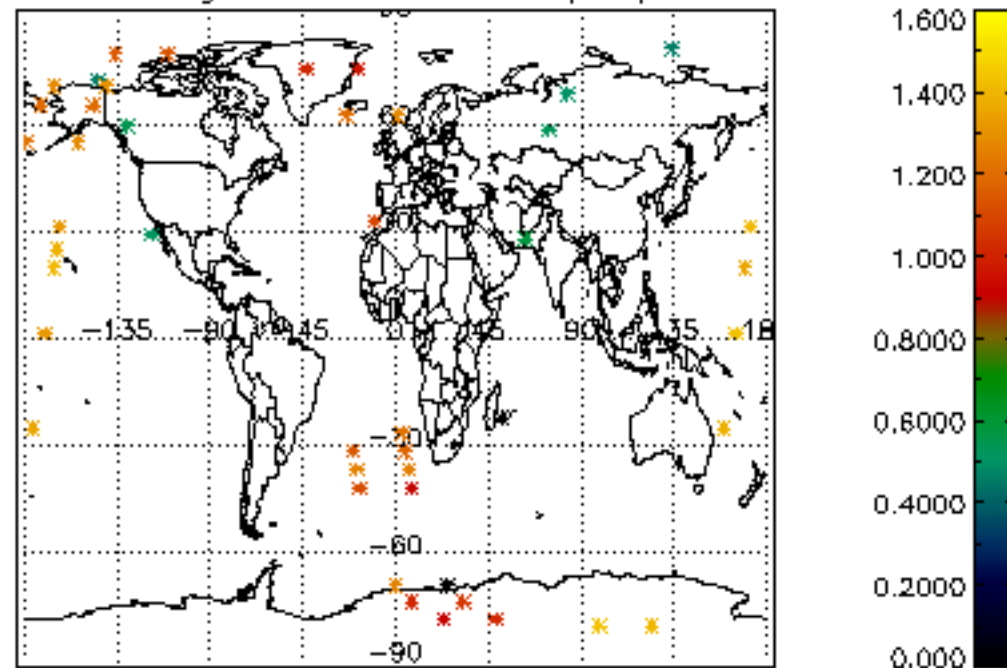




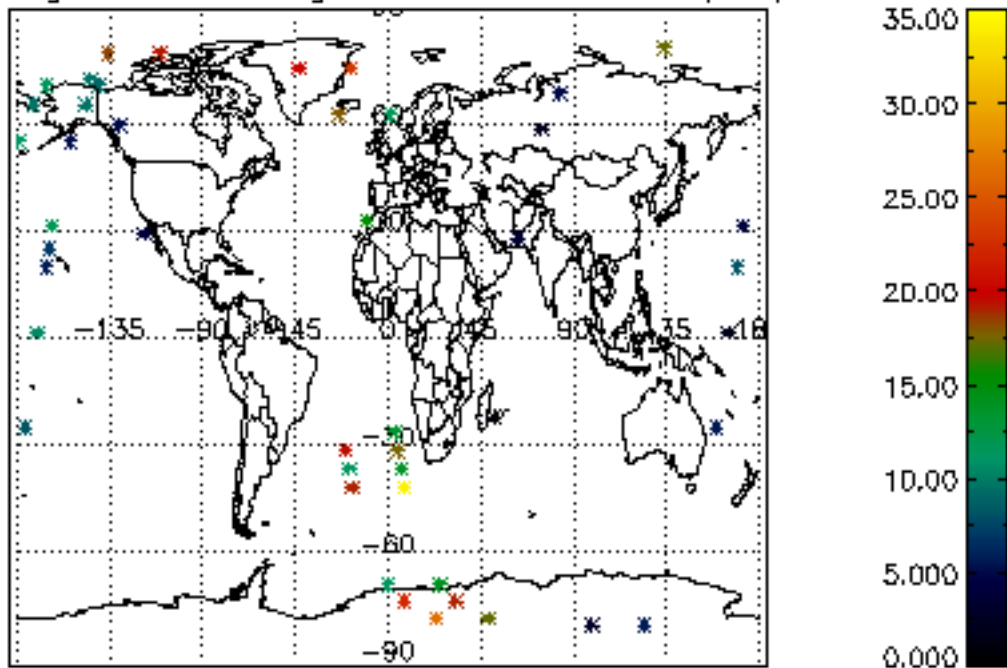
Percentage of cosmic ray hits per profile



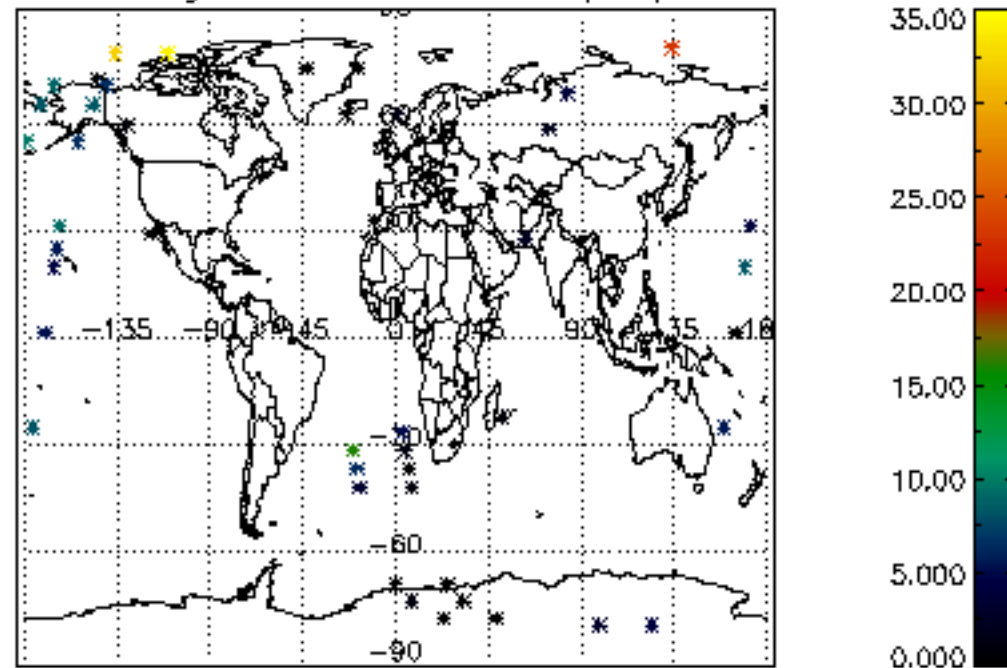
Percentage of datation errors per profile



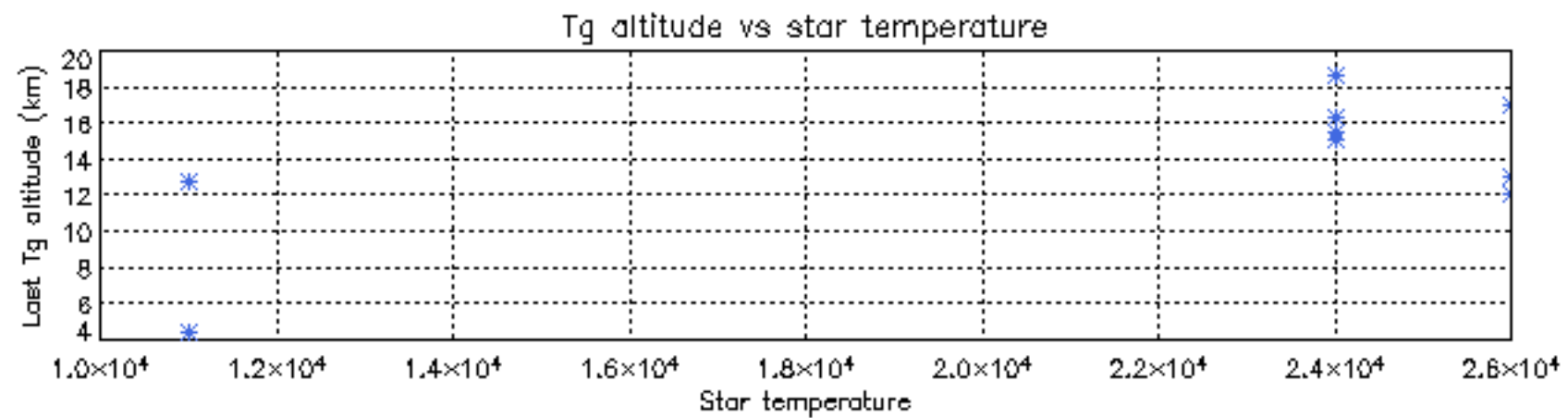
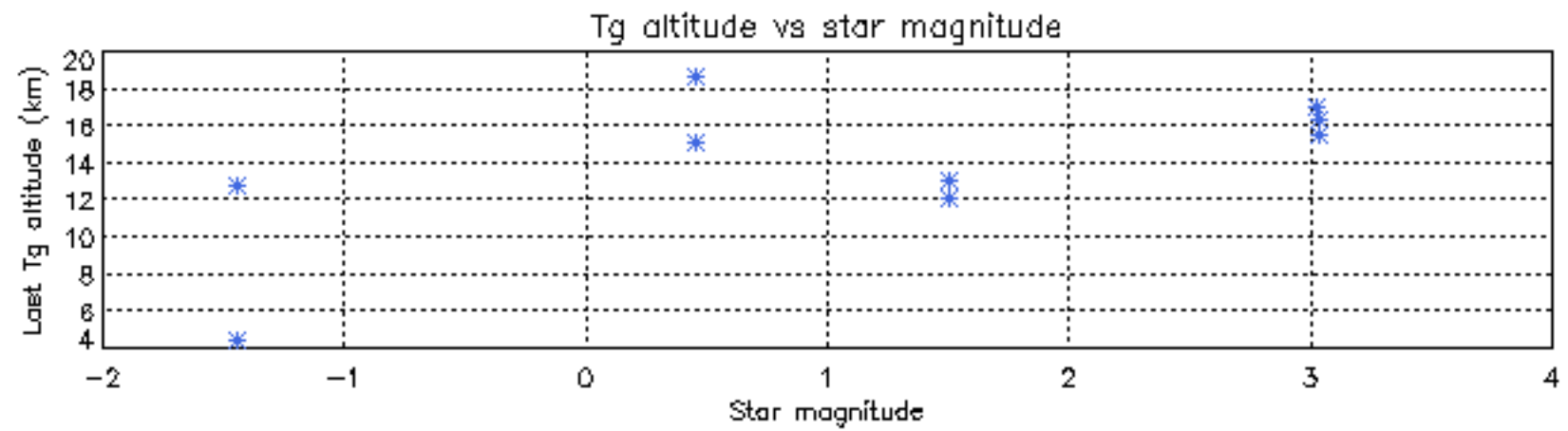
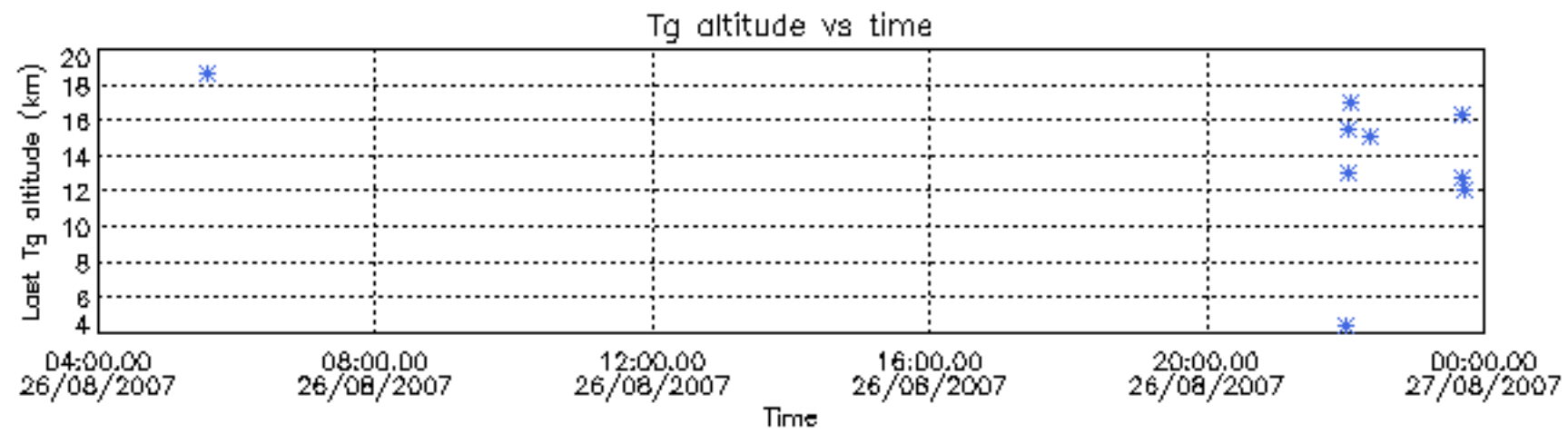
Percentage of star falling outside central band per profile



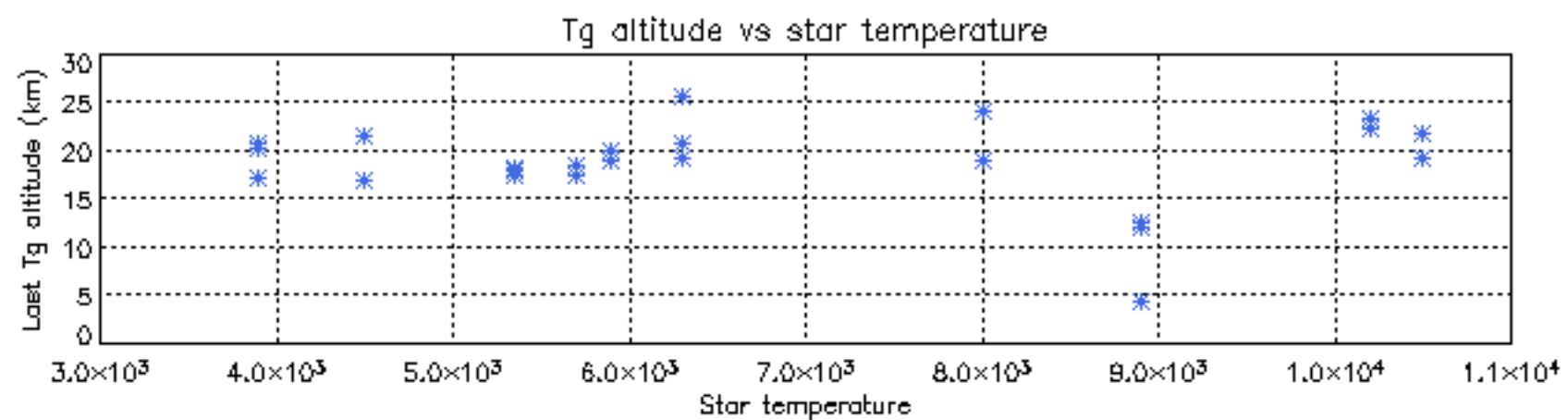
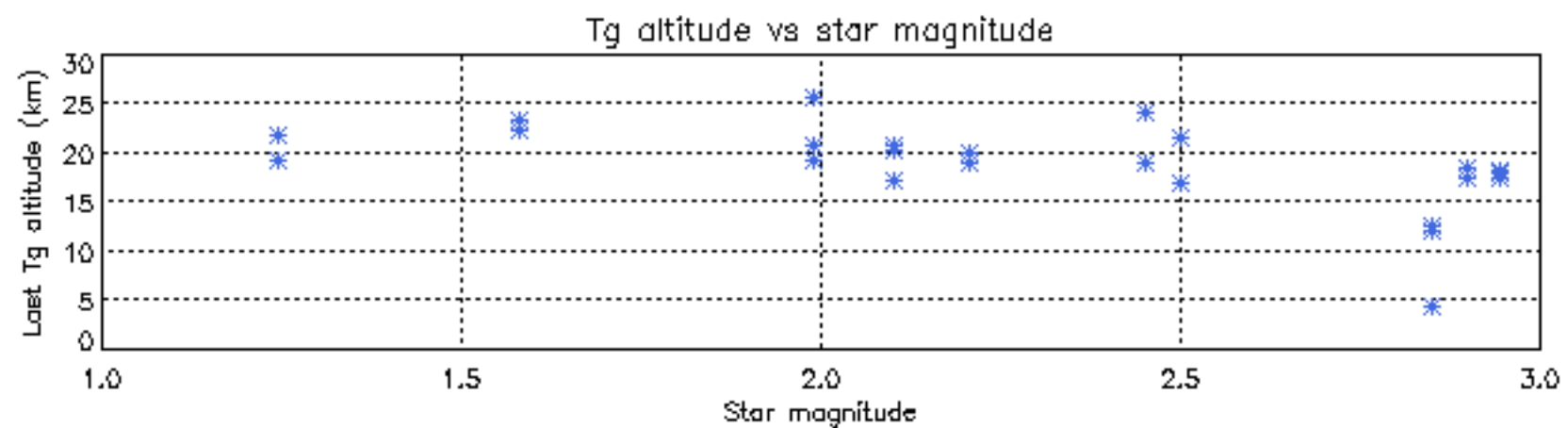
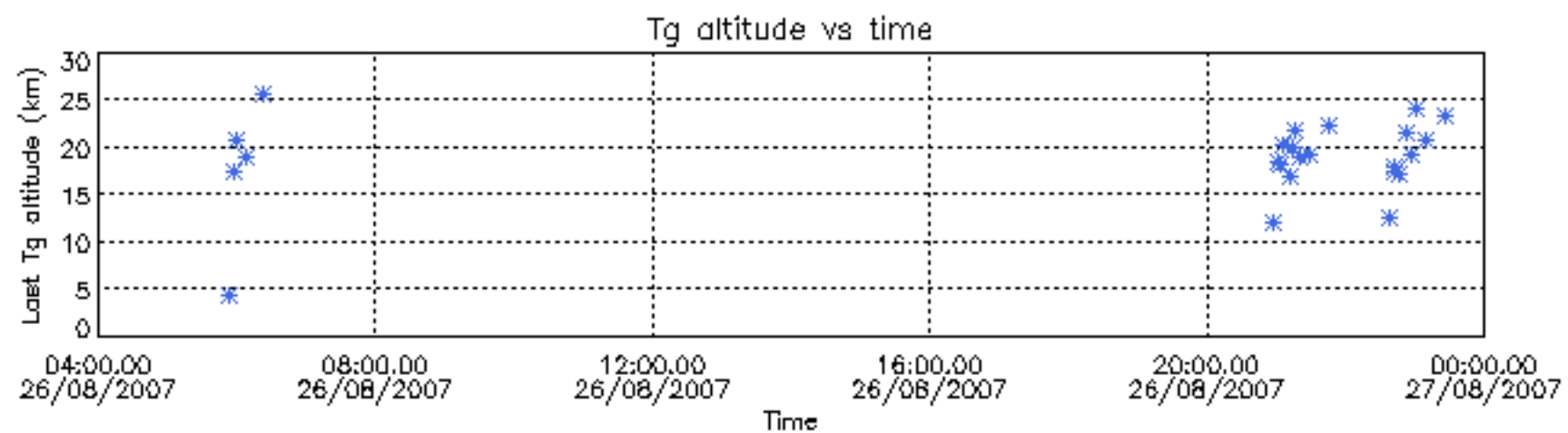
Percentage of saturation errors per profile



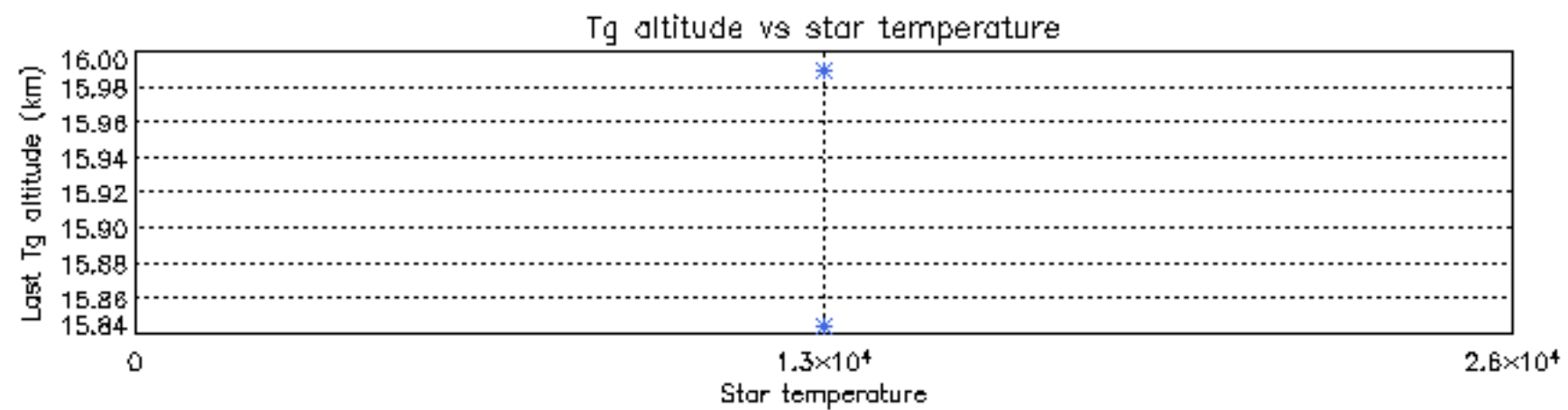
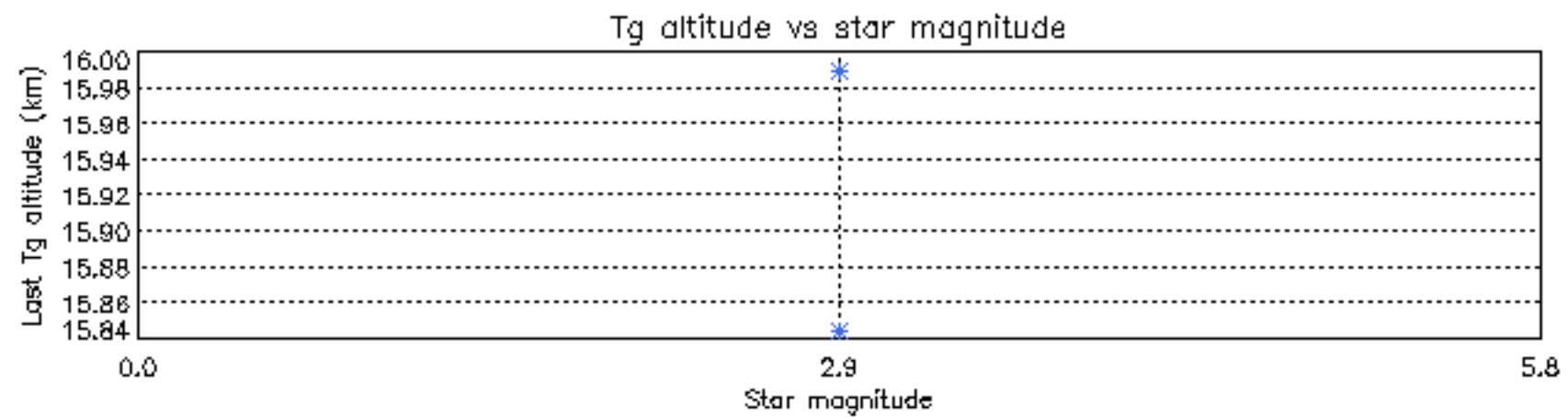
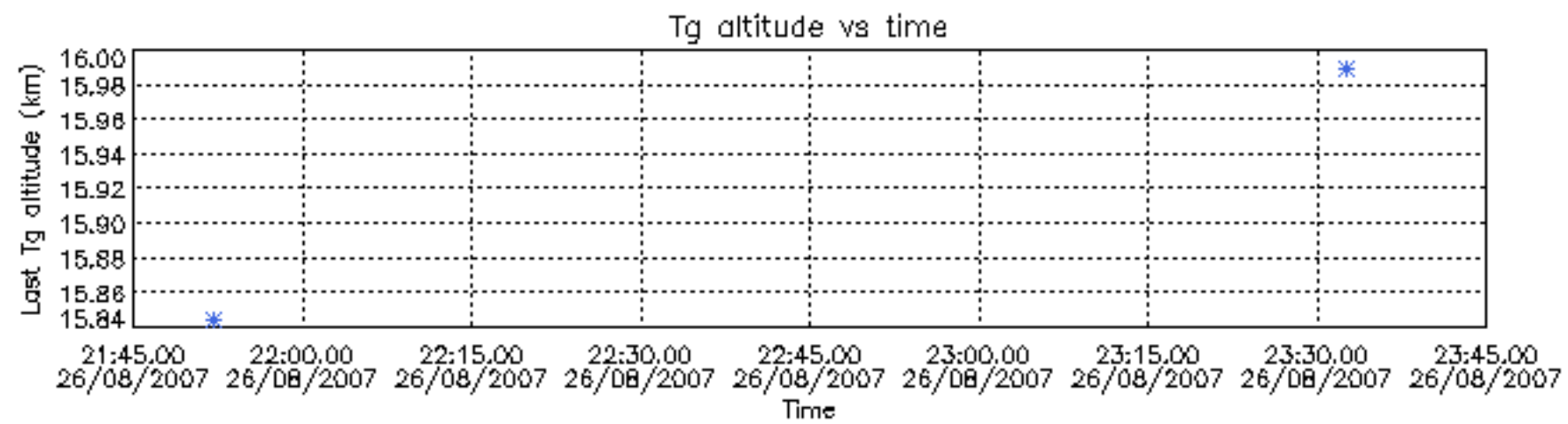
Tangent altitude at which the star is lost

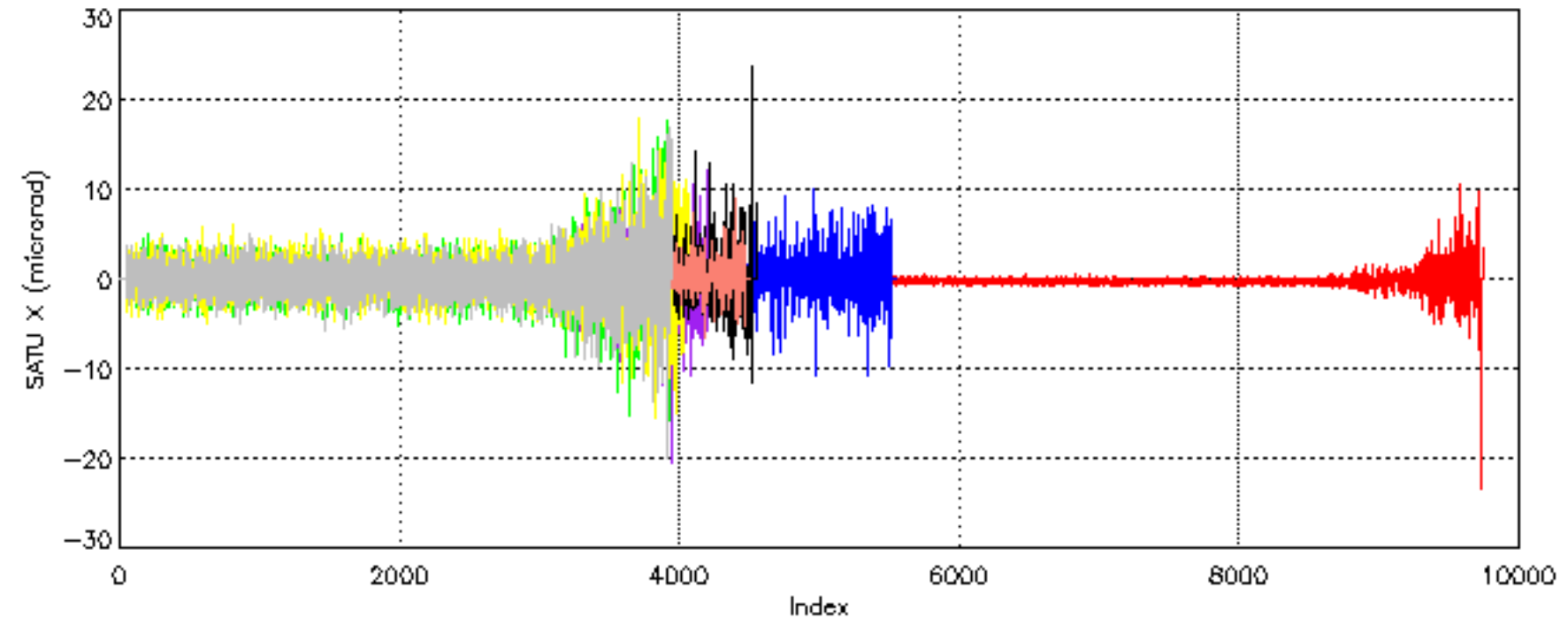


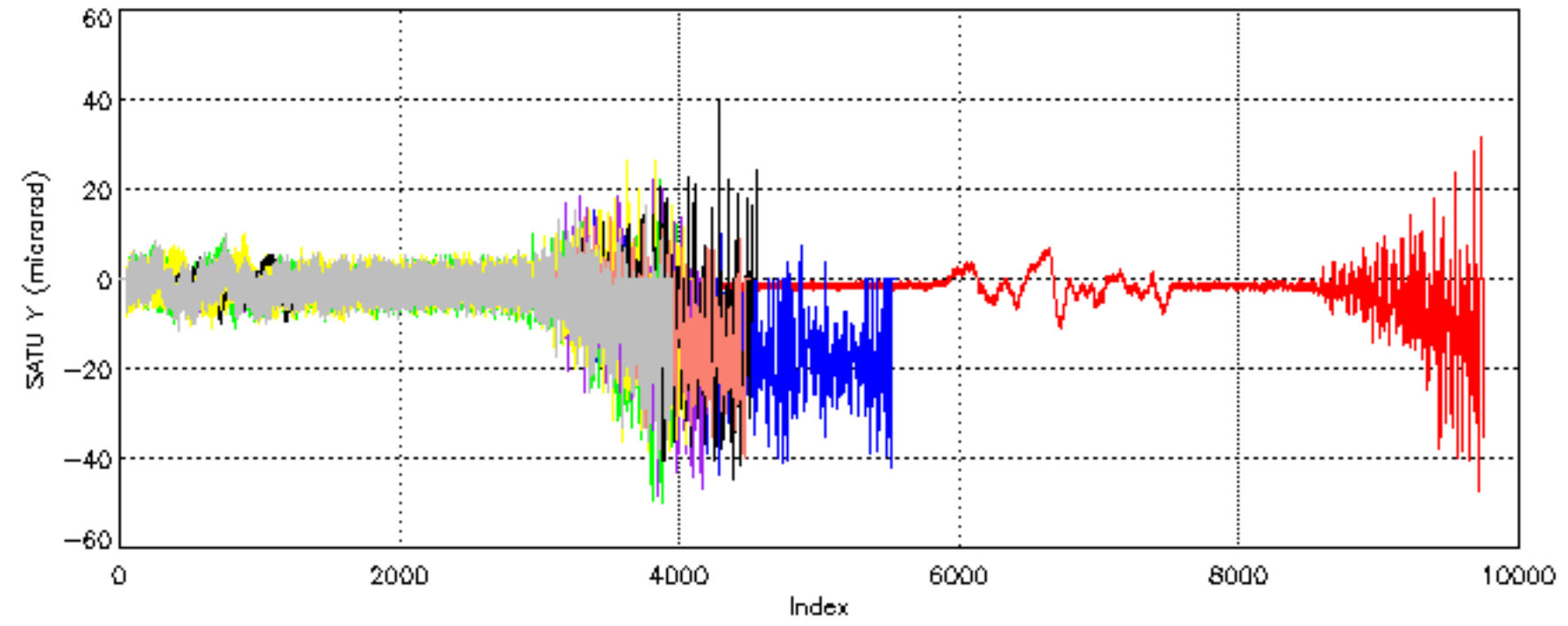
Tangent altitude at which the star is lost

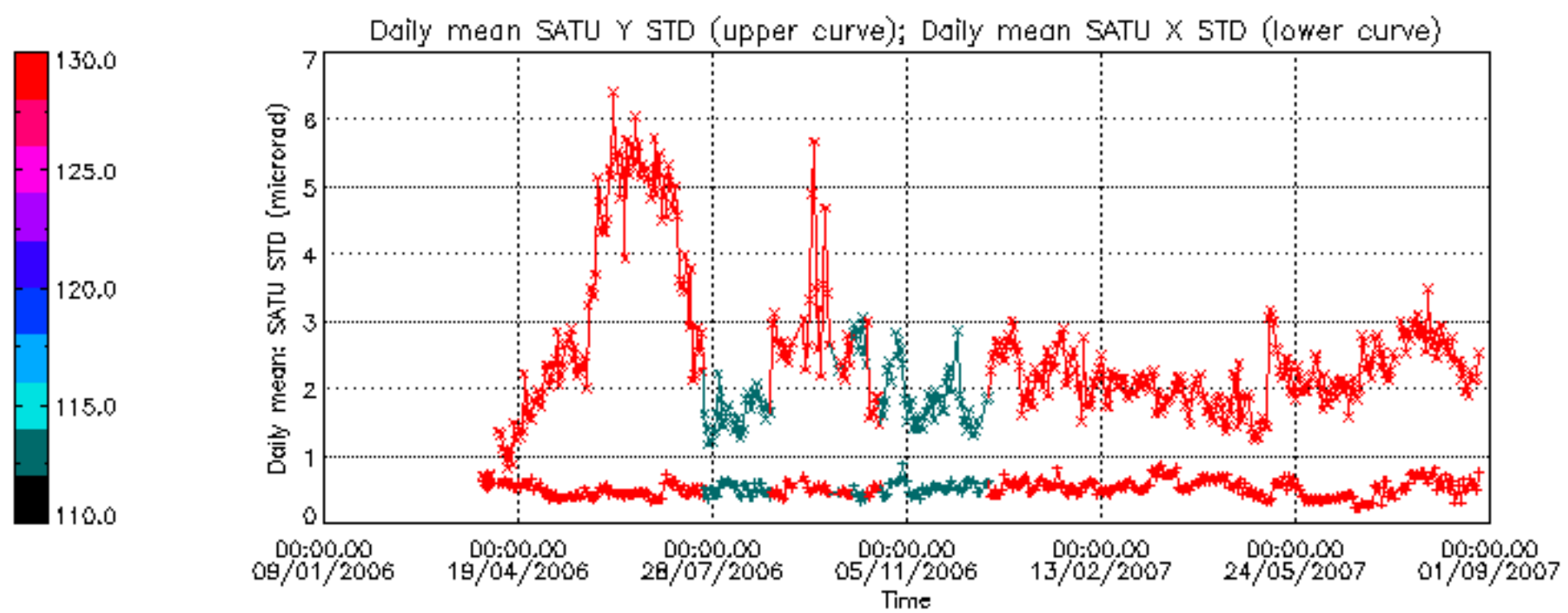


Tangent altitude at which the star is lost









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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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 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
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 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
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 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
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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
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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
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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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4; 274.7; 01-AUG-2007 23:41:55; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;28341
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6; 721.5; 01-AUG-2007 23:49:22; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;28341
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14; 5525.1; 30-AUG-2007 09:52:31; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 0;28747
15; 5620.3; 30-AUG-2007 09:54:07; Dark ; 42.5; 177; 1Zet CMa ; 3.02; 26000;occ; 85; 0;28747
16; 5716.5; 30-AUG-2007 09:55:43; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28747
17; 6547.1; 30-AUG-2007 10:09:33; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28747
18; 6622.2; 30-AUG-2007 10:10:48; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;28747
19; 6980.2; 30-AUG-2007 10:16:46; Dark ; 51.0; 84; Alp Phe ; 2.40; 4500;occ; 102; 0;28747
20; 7077.5; 30-AUG-2007 10:18:24; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;28747
21; 7357.2; 30-AUG-2007 10:23:03; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28747
22; 7651.6; 30-AUG-2007 10:27:58; Dark ; 38.0; 142; 49Del Cap ; 2.85; 8900;occ; 76; 0;28747

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2; 1896.7; 30-AUG-2007 10:32:39; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;28748
3; 2077.3; 30-AUG-2007 10:35:39; Bright; 37.0; 61; 8Eps Peg ; 2.10; 3900;occ; 74; 0;28748
4; 2486.4; 30-AUG-2007 10:42:29; Bright; 34.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 68; 0;28748
5; 2677.5; 30-AUG-2007 10:45:40; Bright; 39.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 78; 0;28748
6; 2979.0; 30-AUG-2007 10:50:41; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28748
7; 3435.2; 30-AUG-2007 10:58:17; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28748
8; 4448.6; 30-AUG-2007 11:15:11; Bright; 35.5; 24; 66Alp Gem ; 1.58; 10200;occ; 71; 0;28748
9; 4605.3; 30-AUG-2007 11:17:47; Dark ; 49.5; 170; 27Eps Gem ; 3.00; 9700;occ; 99; 0;28748
10; 4781.4; 30-AUG-2007 11:20:44; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;28748
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22; 7651.7; 30-AUG-2007 12:08:34; Dark ; 45.5; 142; 49Del Cap ; 2.85; 8900;occ; 91; 0;28748

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3; 1896.7; 30-AUG-2007 12:13:15; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28749
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5; 2486.5; 30-AUG-2007 12:23:04; Bright; 35.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 70; 0;28749
6; 2677.6; 30-AUG-2007 12:26:16; Bright; 34.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 68; 0;28749
7; 2978.8; 30-AUG-2007 12:31:17; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28749
8; 3435.1; 30-AUG-2007 12:38:53; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;28749
9; 4448.6; 30-AUG-2007 12:55:47; Bright; 35.5; 24; 66Alp Gem ; 1.58; 10200;occ; 71; 0;28749
10; 4605.6; 30-AUG-2007 12:58:24; Dark ; 48.5; 170; 27Eps Gem ; 3.00; 9700;occ; 97; 0;28749
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13; 5357.8; 30-AUG-2007 13:10:56; Dark ; 46.0; 1; 9Alp CMa ; -1.44; 11000;occ; 92; 0;28749
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16; 5621.8; 30-AUG-2007 13:15:20; Dark ; 41.5; 177; 1Zet CMa ; 3.02; 26000;occ; 83; 0;28749
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21; 7078.1; 30-AUG-2007 13:39:36; Dark ; 47.5; 63; Bet Gru ; 2.15; 2800;occ; 95; 0;28749
22; 7357.9; 30-AUG-2007 13:44:16; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;28749

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3; 1896.6; 30-AUG-2007 13:53:50; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;28750

4; 2077.3; 30-AUG-2007 13:56:51; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28750
5; 2486.7; 30-AUG-2007 14:03:40; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;28750
6; 2677.6; 30-AUG-2007 14:06:51; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;28750
7; 2978.7; 30-AUG-2007 14:11:53; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28750
8; 3435.3; 30-AUG-2007 14:19:29; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;28750
9; 4448.9; 30-AUG-2007 14:36:23; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28750
10; 4605.9; 30-AUG-2007 14:39:00; Dark ; 47.5; 170; 27Eps Gem ; 3.00; 9700;occ; 95; 0;28750
11; 4782.3; 30-AUG-2007 14:41:56; Dark ; 46.5; 44; 24Gam Gem ; 1.93; 11000;occ; 93; 0;28750
12; 4906.8; 30-AUG-2007 14:44:01; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;28750
13; 5358.4; 30-AUG-2007 14:51:32; Dark ; 51.0; 1; 9Alp CMa ; -1.44; 11000;occ; 102; 0;28750
14; 5438.3; 30-AUG-2007 14:52:52; Dark ; 38.5; 179; 240mi2CMa ; 3.03; 24000;occ; 77; 0;28750
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17; 5718.4; 30-AUG-2007 14:57:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28750
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3; 1805.7; 30-AUG-2007 15:32:55; Bright; 38.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 77; 0;28751
4; 1896.6; 30-AUG-2007 15:34:26; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28751
5; 2077.2; 30-AUG-2007 15:37:27; Bright; 40.0; 61; 8Eps Peg ; 2.10; 3900;occ; 80; 0;28751
6; 2486.7; 30-AUG-2007 15:44:16; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;28751
7; 2677.6; 30-AUG-2007 15:47:27; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;28751
8; 2978.7; 30-AUG-2007 15:52:28; Bright; 34.5; 89; 5Alp Cep ; 2.45; 8000;occ; 69; 0;28751
9; 3435.3; 30-AUG-2007 16:00:05; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28751
10; 4449.0; 30-AUG-2007 16:16:59; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;28751
11; 4606.1; 30-AUG-2007 16:19:36; Dark ; 44.5; 170; 27Eps Gem ; 3.00; 9700;occ; 89; 0;28751
12; 4782.8; 30-AUG-2007 16:22:33; Dark ; 49.5; 44; 24Gam Gem ; 1.93; 11000;occ; 99; 0;28751
13; 4907.1; 30-AUG-2007 16:24:37; Dark ; 51.5; 8; 10Alp CMi ; 0.40; 6500;occ; 103; 0;28751
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6; 2486.7; 30-AUG-2007 17:24:52; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;28752
7; 2677.6; 30-AUG-2007 17:28:03; Bright; 35.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 71; 0;28752
8; 2978.5; 30-AUG-2007 17:33:04; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;28752
9; 3435.2; 30-AUG-2007 17:40:41; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28752
10; 4449.2; 30-AUG-2007 17:57:35; Bright; 36.0; 24; 66Alp Gem ; 1.58; 10200;occ; 72; 0;28752
11; 4606.4; 30-AUG-2007 18:00:12; Dark ; 47.0; 170; 27Eps Gem ; 3.00; 9700;occ; 94; 0;28752
12; 4783.1; 30-AUG-2007 18:03:09; Dark ; 49.0; 44; 24Gam Gem ; 1.93; 11000;occ; 98; 0;28752
13; 4907.4; 30-AUG-2007 18:05:13; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;28752
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6; 2077.0; 30-AUG-2007 18:58:39; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28753
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12; 4606.5; 30-AUG-2007 19:40:48; Dark ; 46.5; 170; 27Eps Gem ; 3.00; 9700;occ; 93; 0;28753
13; 4783.3; 30-AUG-2007 19:43:45; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;28753
14; 4907.6; 30-AUG-2007 19:45:49; Dark ; 48.0; 8; 10Alp CMi ; 0.40; 6500;occ; 96; 0;28753
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17; 5528.0; 30-AUG-2007 19:56:10; Dark ; 40.5; 23; 21Eps CMa ; 1.50; 26000;occ; 81; 0;28753
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21; 6625.9; 30-AUG-2007 20:14:28; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;28753
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7; 949.7; 31-AUG-2007 01:22:15; Dark ; 49.5; 84; Alp Phe ; 2.40; 4500;occ; 99; 0;28757
8; 1044.4; 31-AUG-2007 01:23:50; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;28757
9; 1323.9; 31-AUG-2007 01:28:29; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;28757
10; 1616.8; 31-AUG-2007 01:33:22; Dark ; 43.0; 142; 49Del Cap ; 2.85; 8900;occ; 86; 0;28757
11; 1805.9; 31-AUG-2007 01:36:31; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28757
12; 1896.3; 31-AUG-2007 01:38:02; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;28757
13; 2076.7; 31-AUG-2007 01:41:02; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28757
14; 2486.8; 31-AUG-2007 01:47:52; Bright; 37.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 74; 0;28757
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7; 3434.9; 31-AUG-2007 10:26:40; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28762
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17; 6631.4; 31-AUG-2007 11:19:56; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;28762
18; 6989.3; 31-AUG-2007 11:25:54; Dark ; 59.5; 84; Alp Phe ; 2.40; 4500;occ; 119; 0;28762
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7; 2977.2; 31-AUG-2007 13:40:14; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28764
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3; 1896.1; 31-AUG-2007 15:02:49; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28765
4; 2076.3; 31-AUG-2007 15:05:49; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28765
5; 2487.1; 31-AUG-2007 15:12:40; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;28765


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14; 5367.8; 31-AUG-2007 17:41:16; Dark ; 58.0; 1; 9Alp CMa ; -1.44; 11000;occ; 116; 0;28766
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22; 6992.3; 31-AUG-2007 19:48:57; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 0;28767

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