

GOMOS Daily Report 07-SEP-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	09SEP2007 05:34:50
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (07SEP2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (08SEP2007 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)

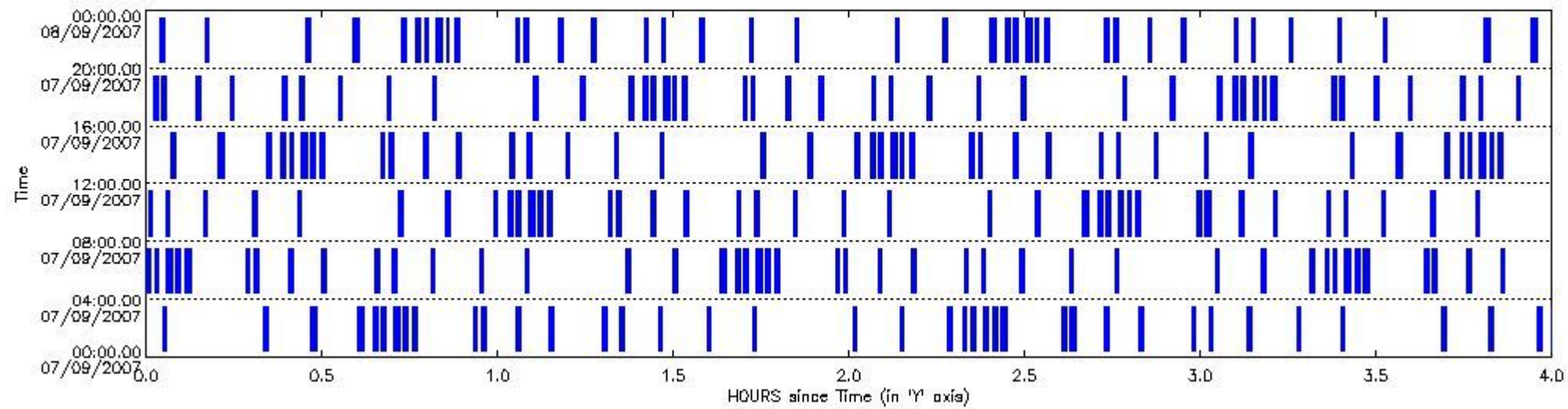
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

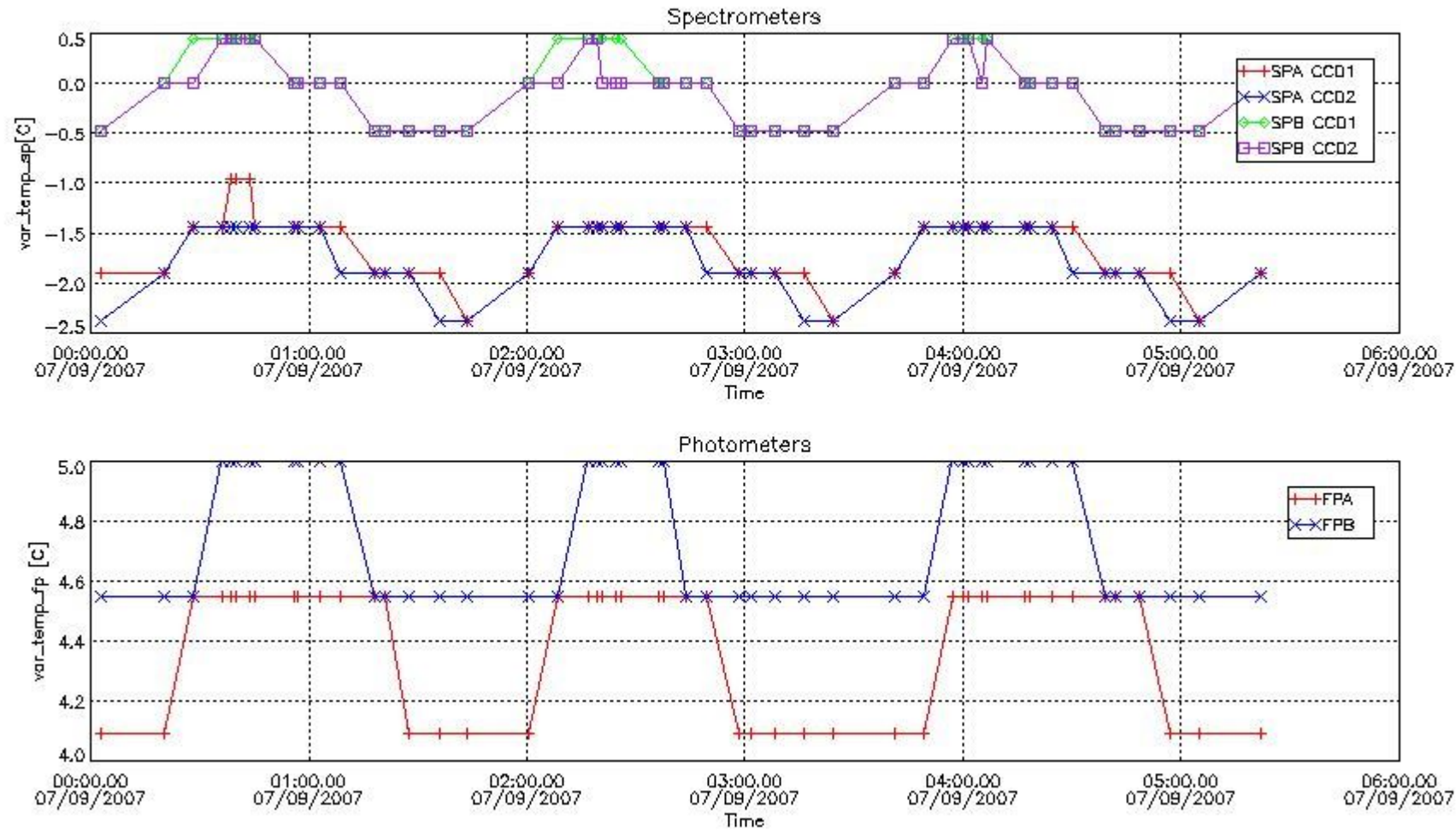
No missing products.

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_1PNPDE20070907_000255_000000362061_00245_28856_7468.N1	07-SEP-2007 00:02:55	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	28856	No
2	GOM_TRA_1PNPDE20070907_002005_000000402061_00245_28856_7469.N1	07-SEP-2007 00:20:05	Bright	40.000	24	66Alp Gem	1.5800	10200.	80	28856	No
3	GOM_TRA_1PNPDE20070907_002803_000000562061_00245_28856_7470.N1	07-SEP-2007 00:28:03	Twilight	55.500	8	10Alp CMi	0.40000	6500.0	111	28856	No
4	GOM_TRA_1PNPDE20070907_003610_000000552061_00245_28856_7633.N1	07-SEP-2007 00:36:10	Dark	54.500	1	9Alp CMa	-1.4400	11000.	109	28856	No
5	GOM_TRA_1PNPDE20070907_003846_000000452061_00245_28856_7634.N1	07-SEP-2007 00:38:46	Dark	44.500	23	21Eps CMa	1.5020	26000.	89	28856	No
6	GOM_TRA_1PNPDE20070907_004010_000000452061_00245_28856_7635.N1	07-SEP-2007 00:40:10	Dark	45.000	117	Pi Pup	2.7060	3800.0	90	28856	No
7	GOM_TRA_1PNPDE20070907_004350_000000472061_00245_28856_7636.N1	07-SEP-2007 00:43:50	Dark	47.000	108	Alp Col	2.6520	15200.	94	28856	No
8	GOM_TRA_1PNPDE20070907_004524_000000552061_00245_28856_7637.N1	07-SEP-2007 00:45:24	Dark	55.000	2	Alp Car	-0.73600	7000.0	110	28856	No
9	GOM_TRA_1PNPDE20070907_005548_000000412061_00246_28857_7638.N1	07-SEP-2007 00:55:48	Dark	41.000	143	Alp Hyi	2.8570	7200.0	82	28857	No
10	GOM_TRA_1PNPDE20070907_005709_000000552061_00246_28857_7639.N1	07-SEP-2007 00:57:09	Dark	54.500	9	Alp Eri	0.45300	24000.	109	28857	No
11	GOM_TRA_1PNPDE20070907_010303_000000502061_00246_28857_7640.N1	07-SEP-2007 01:03:03	Straylight	50.000	84	Alp Phe	2.3970	4500.0	100	28857	No
12	GOM_TRA_1PNPDE20070907_010847_000000472061_00246_28857_7641.N1	07-SEP-2007 01:08:47	Straylight	46.500	18	24Alp PsA	1.1660	9700.0	93	28857	No

13	GOM_TRA_1PNPDE20070907_011753_000000392061_00246_28857_7642.N1	07-SEP-2007 01:17:53	Bright	39.000	162	34Alp Aqr	2.9440	5350.0	78	28857	No
14	GOM_TRA_1PNPDE20070907_012052_000000382061_00246_28857_7643.N1	07-SEP-2007 01:20:52	Bright	38.000	61	8Eps Peg	2.1000	3900.0	76	28857	No
15	GOM_TRA_1PNPDE20070907_012726_000000412061_00246_28857_7644.N1	07-SEP-2007 01:27:26	Bright	41.000	164	44Eta Peg	2.9480	5400.0	82	28857	No
16	GOM_TRA_1PNPDE20070907_013548_000000362061_00246_28857_7645.N1	07-SEP-2007 01:35:48	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	28857	No
17	GOM_TRA_1PNPDE20070907_014331_000000362061_00246_28857_7646.N1	07-SEP-2007 01:43:31	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	28857	No
18	GOM_TRA_1PNPDE20070907_020041_000000402061_00246_28857_7647.N1	07-SEP-2007 02:00:41	Bright	40.000	24	66Alp Gem	1.5800	10200.	80	28857	No
19	GOM_TRA_1PNPDE20070907_020840_000000432061_00246_28857_7648.N1	07-SEP-2007 02:08:40	Twilight	43.000	8	10Alp CMi	0.40000	6500.0	86	28857	No
20	GOM_TRA_1PNPDE20070907_021646_000000512061_00246_28857_7779.N1	07-SEP-2007 02:16:46	Dark	51.000	1	9Alp CMa	-1.4400	11000.	102	28857	No
21	GOM_TRA_1PNPDE20070907_021922_000000442061_00246_28857_7780.N1	07-SEP-2007 02:19:22	Dark	44.000	23	21Eps CMa	1.5020	26000.	88	28857	No
22	GOM_TRA_1PNPDE20070907_022047_000000442061_00246_28857_7781.N1	07-SEP-2007 02:20:47	Dark	44.000	117	Pi Pup	2.7060	3800.0	88	28857	No
23	GOM_TRA_1PNPDE20070907_022427_000000482061_00246_28857_7782.N1	07-SEP-2007 02:24:27	Dark	48.000	108	Alp Col	2.6520	15200.	96	28857	No
24	GOM_TRA_1PNPDE20070907_022600_000000522061_00246_28857_7783.N1	07-SEP-2007 02:26:00	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	28857	No
25	GOM_TRA_1PNPDE20070907_023624_000000412061_00247_28858_7784.N1	07-SEP-2007 02:36:24	Dark	41.000	143	Alp Hyi	2.8570	7200.0	82	28858	No
26	GOM_TRA_1PNPDE20070907_023745_000000562061_00247_28858_7785.N1	07-SEP-2007 02:37:45	Dark	56.000	9	Alp Eri	0.45300	24000.	112	28858	No
27	GOM_TRA_1PNPDE20070907_024339_000000492061_00247_28858_7786.N1	07-SEP-2007 02:43:39	Straylight	49.000	84	Alp Phe	2.3970	4500.0	98	28858	No
28	GOM_TRA_1PNPDE20070907_024924_000000472061_00247_28858_7787.N1	07-SEP-2007 02:49:24	Straylight	46.500	18	24Alp PsA	1.1660	9700.0	93	28858	No
29	GOM_TRA_1PNPDE20070907_025829_000000382061_00247_28858_7788.N1	07-SEP-2007 02:58:29	Bright	38.000	162	34Alp Aqr	2.9440	5350.0	76	28858	No
30	GOM_TRA_1PNPDE20070907_030128_000000382061_00247_28858_7789.N1	07-SEP-2007 03:01:28	Bright	37.500	61	8Eps Peg	2.1000	3900.0	75	28858	No
31	GOM_TRA_1PNPDE20070907_030801_000000412061_00247_28858_7790.N1	07-SEP-2007 03:08:01	Bright	41.000	164	44Eta Peg	2.9480	5400.0	82	28858	No
32	GOM_TRA_1PNPDE20070907_031624_000000332061_00247_28858_7791.N1	07-SEP-2007 03:16:24	Bright	33.000	89	5Alp Cep	2.4510	8000.0	66	28858	No
33	GOM_TRA_1PNPDE20070907_032407_000000322061_00247_28858_7792.N1	07-SEP-2007 03:24:07	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	28858	No
34	GOM_TRA_1PNPDE20070907_034117_000000402061_00247_28858_7932.N1	07-SEP-2007 03:41:17	Bright	40.000	24	66Alp Gem	1.5800	10200.	80	28858	No
35	GOM_TRA_1PNPDE20070907_034916_000000522061_00247_28858_7933.N1	07-SEP-2007 03:49:16	Twilight	51.500	8	10Alp CMi	0.40000	6500.0	103	28858	No
36	GOM_TRA_1PNPDE20070907_035723_000000582061_00247_28858_7934.N1	07-SEP-2007 03:57:23	Dark	58.000	1	9Alp CMa	-1.4400	11000.	116	28858	No
37	GOM_TRA_1PNPDE20070907_035959_000000452061_00247_28858_7935.N1	07-SEP-2007 03:59:59	Dark	45.000	23	21Eps CMa	1.5020	26000.	90	28858	No
38	GOM_TRA_1PNPDE20070907_040123_000000432061_00247_28858_7936.N1	07-SEP-2007 04:01:23	Dark	43.000	117	Pi Pup	2.7060	3800.0	86	28858	No
39	GOM_TRA_1PNPDE20070907_040504_000000462061_00247_28858_7937.N1	07-SEP-2007 04:05:04	Dark	45.500	108	Alp Col	2.6520	15200.	91	28858	No
40	GOM_TRA_1PNPDE20070907_040637_000000552061_00247_28858_7938.N1	07-SEP-2007 04:06:37	Dark	55.000	2	Alp Car	-0.73600	7000.0	110	28858	No
41	GOM_TRA_1PNPDE20070907_041701_000000402061_00248_28859_7939.N1	07-SEP-2007 04:17:01	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	28859	No
42	GOM_TRA_1PNPDE20070907_041822_000000462061_00248_28859_7940.N1	07-SEP-2007 04:18:22	Dark	45.500	9	Alp Eri	0.45300	24000.	91	28859	No
43	GOM_TRA_1PNPDE20070907_042416_000000522061_00248_28859_7941.N1	07-SEP-2007 04:24:16	Straylight	52.000	84	Alp Phe	2.3970	4500.0	104	28859	No
44	GOM_TRA_1PNPDE20070907_043000_000000462061_00248_28859_7942.N1	07-SEP-2007 04:30:00	Straylight	45.500	18	24Alp PsA	1.1660	9700.0	91	28859	No
45	GOM_TRA_1PNPDE20070907_043905_000000372061_00248_28859_7943.N1	07-SEP-2007 04:39:05	Bright	37.000	162	34Alp Aqr	2.9440	5350.0	74	28859	No
46	GOM_TRA_1PNPDE20070907_044204_000000392061_00248_28859_7944.N1	07-SEP-2007 04:42:04	Bright	38.500	61	8Eps Peg	2.1000	3900.0	77	28859	No
47	GOM_TRA_1PNPDE20070907_044837_000000412061_00248_28859_7945.N1	07-SEP-2007 04:48:37	Bright	41.000	164	44Eta Peg	2.9480	5400.0	82	28859	No
48	GOM_TRA_1PNPDE20070907_045700_000000362061_00248_28859_7946.N1	07-SEP-2007 04:57:00	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	28859	No
49	GOM_TRA_1PNPDE20070907_050443_000000342061_00248_28859_7947.N1	07-SEP-2007 05:04:43	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	28859	No
50	GOM_TRA_1PNPDE20070907_052153_000000402061_00248_28859_8181.N1	07-SEP-2007 05:21:53	Bright	40.000	24	66Alp Gem	1.5800	10200.	80	28859	No

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



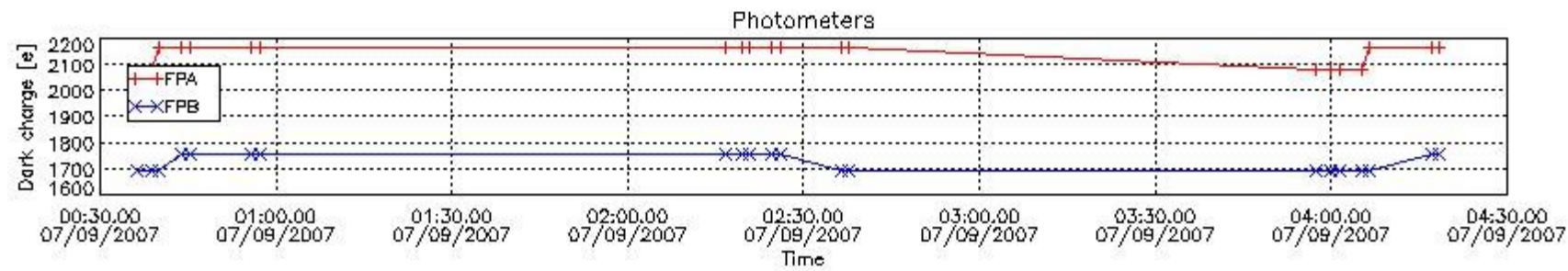
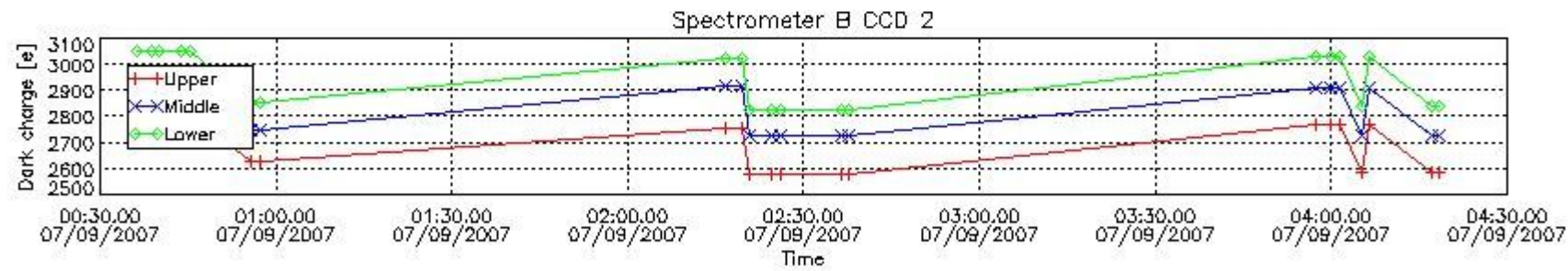
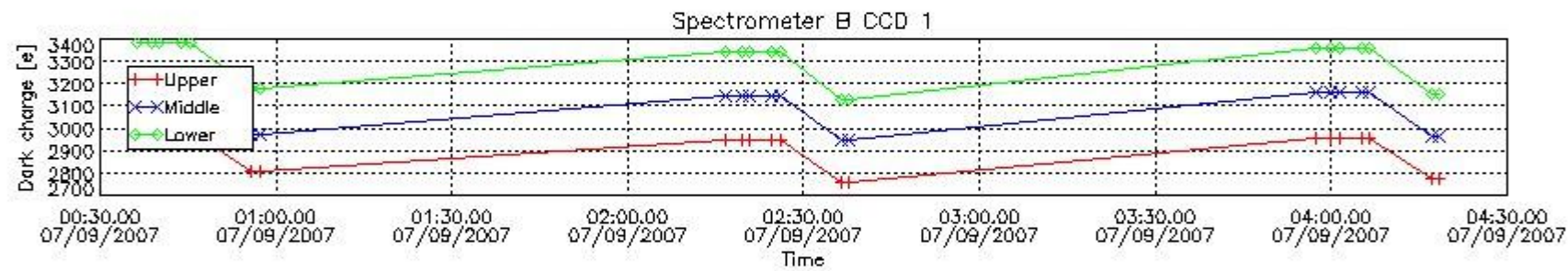
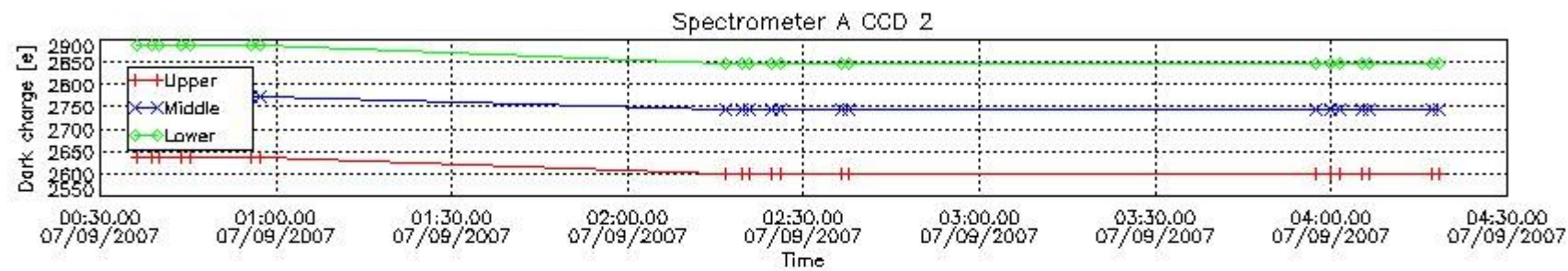
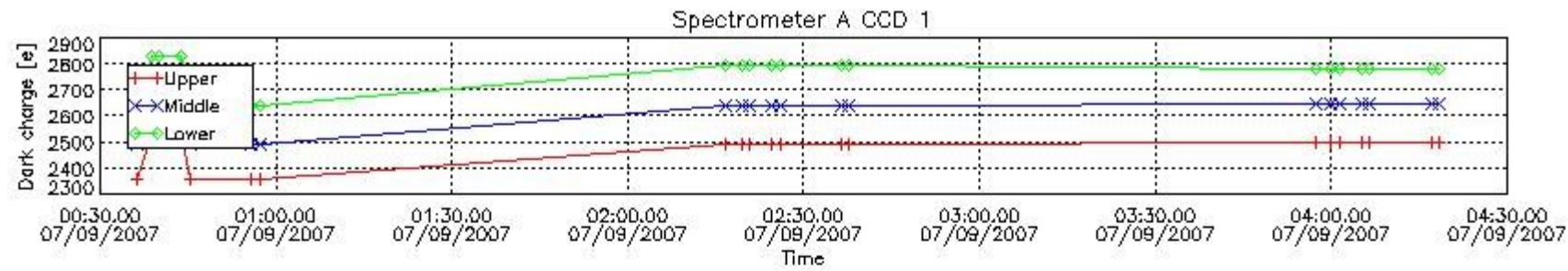
4. Overview of dark signal processing per product

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



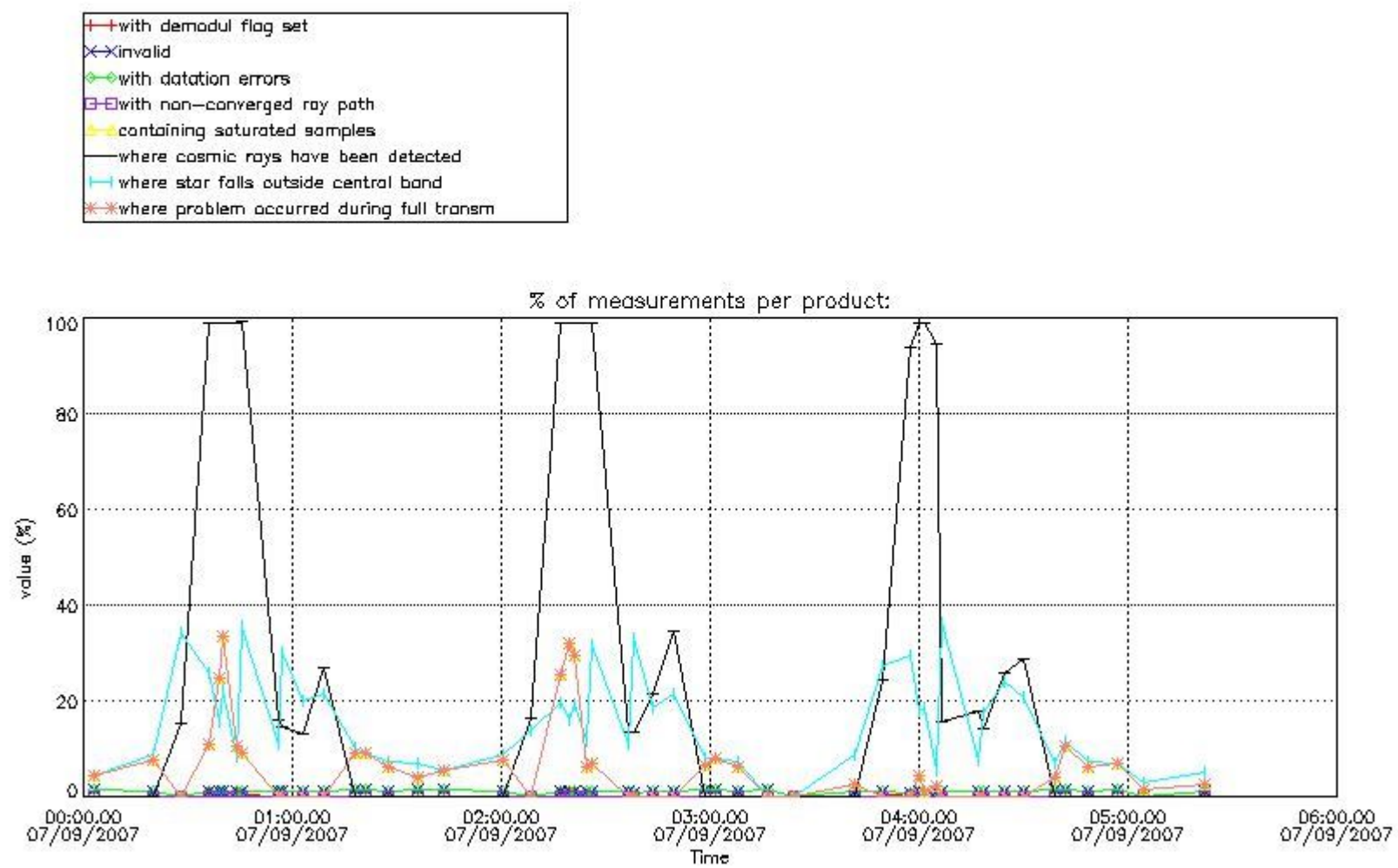
5. Demodulation flag and quality information monitoring

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.

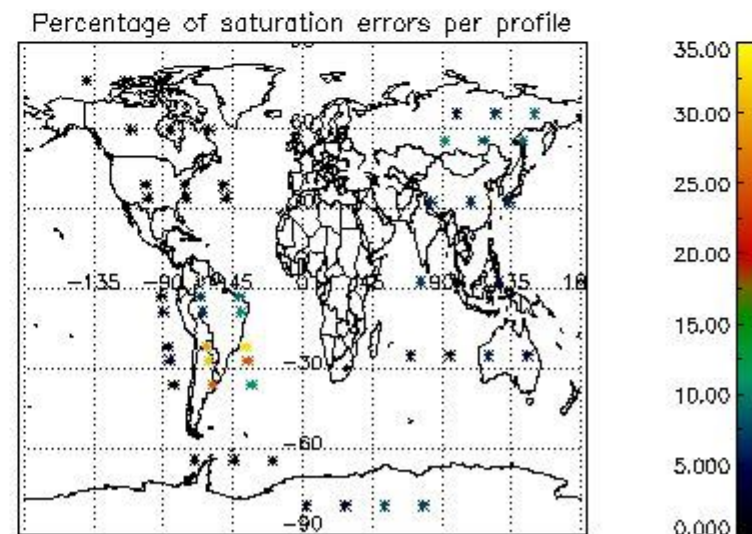
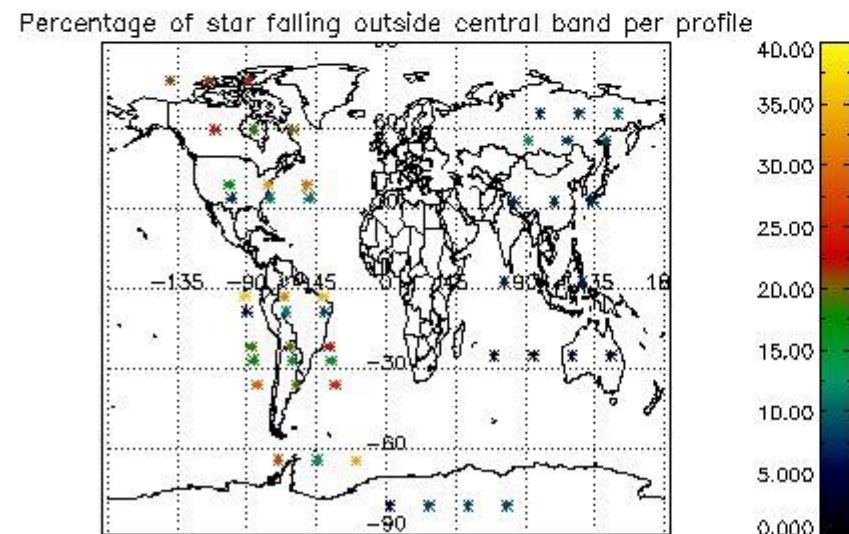
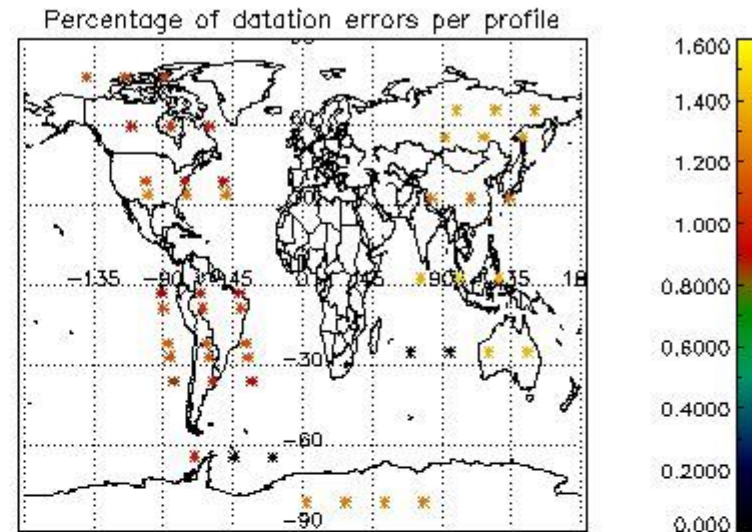
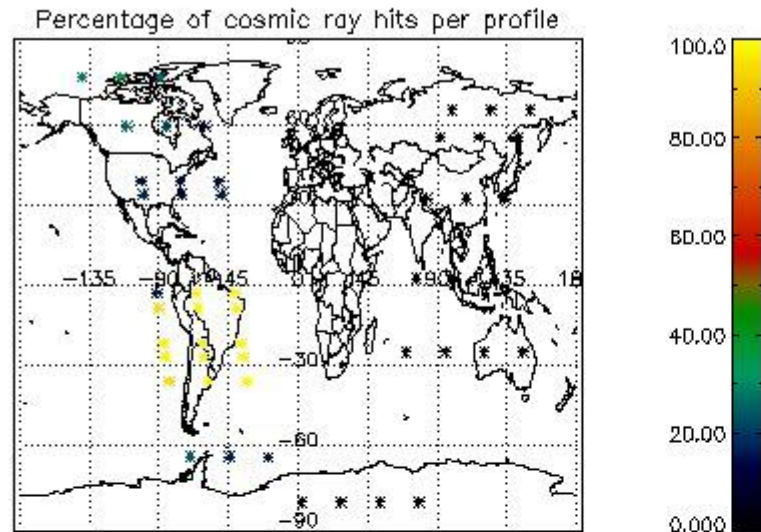
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	32.0000 %
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)



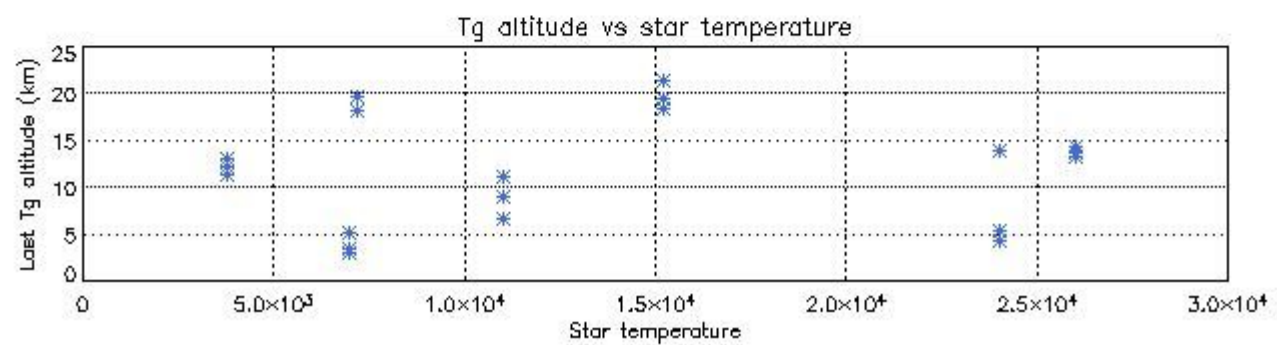
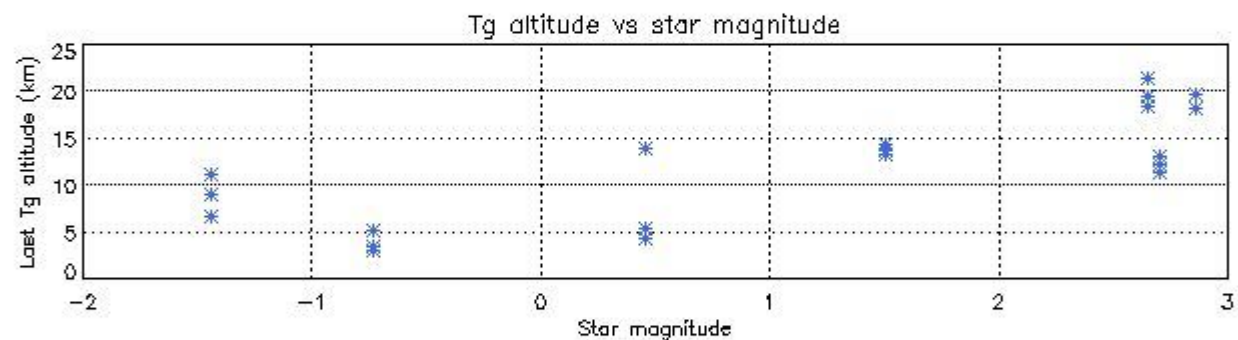
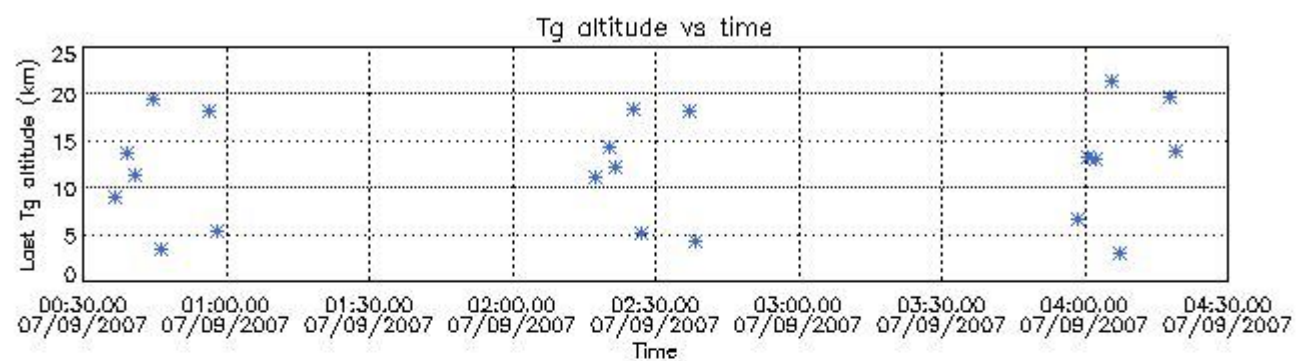
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.155	20.621	9.1816
St. deviation:	5.8174	3.4964	4.9406
Maximum:	21.354	30.532	14.709
Minimum:	3.0413	16.423	5.1954
Number of data:	21.000	20.000	3.0000

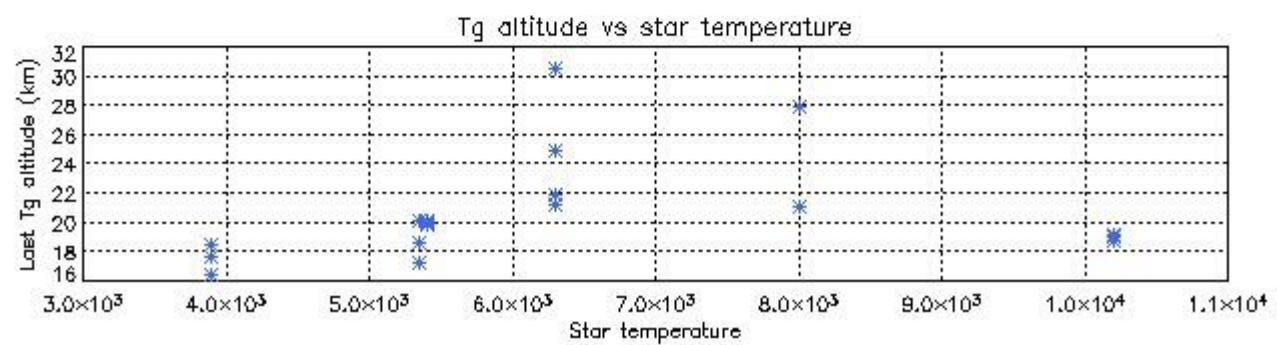
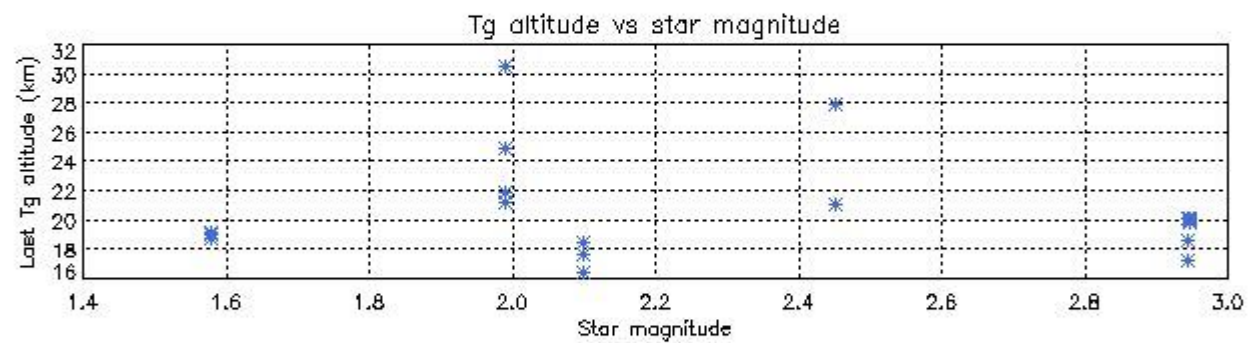
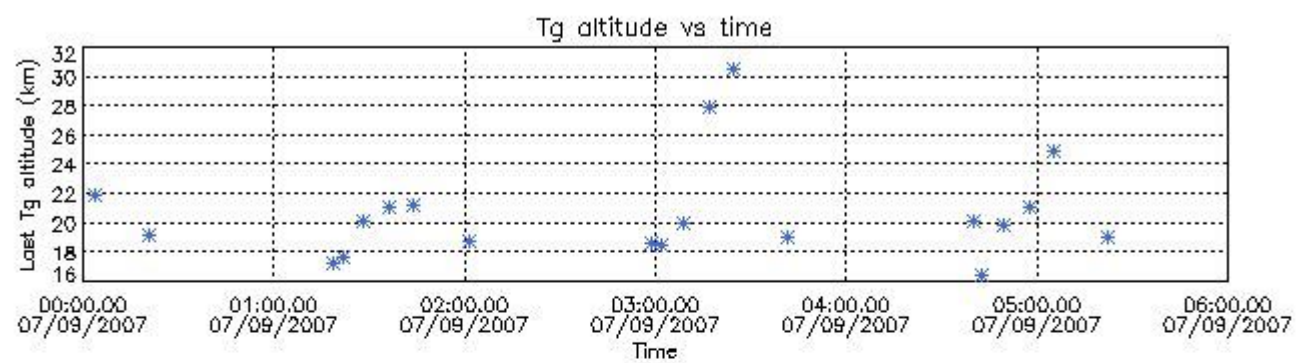
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



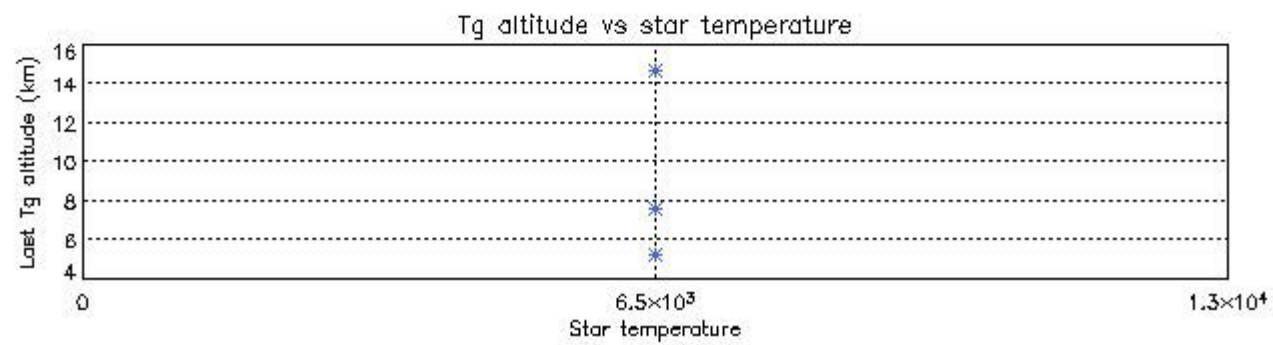
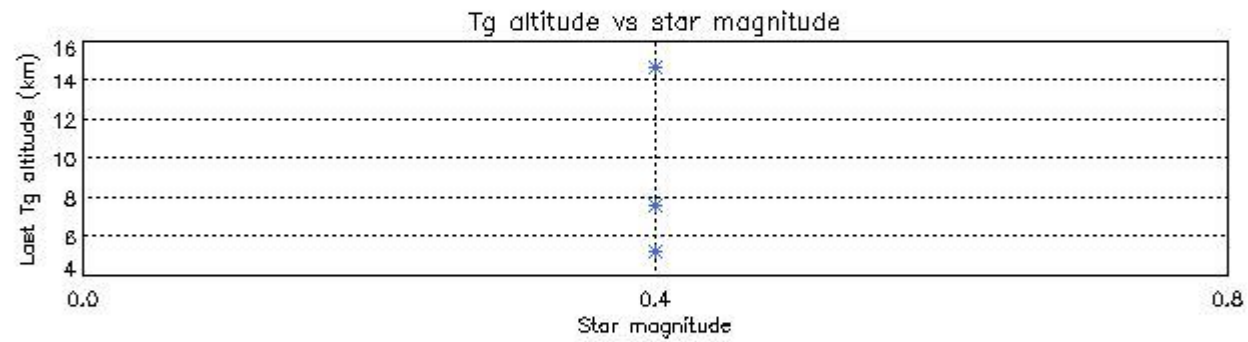
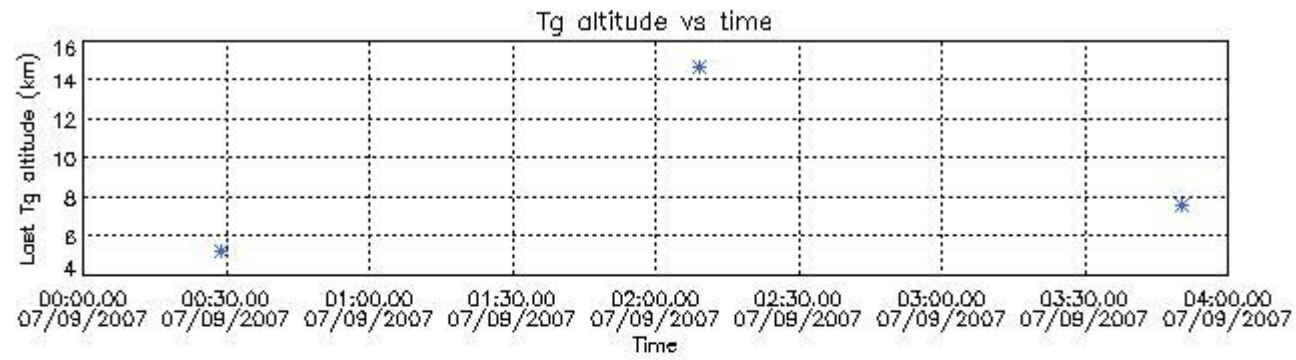
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

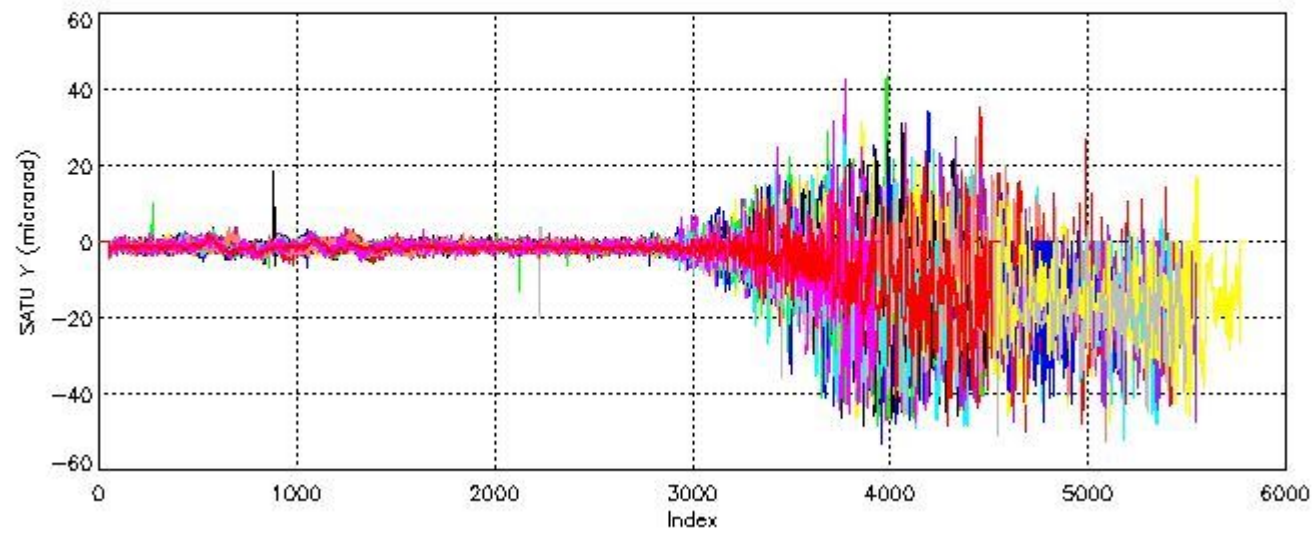
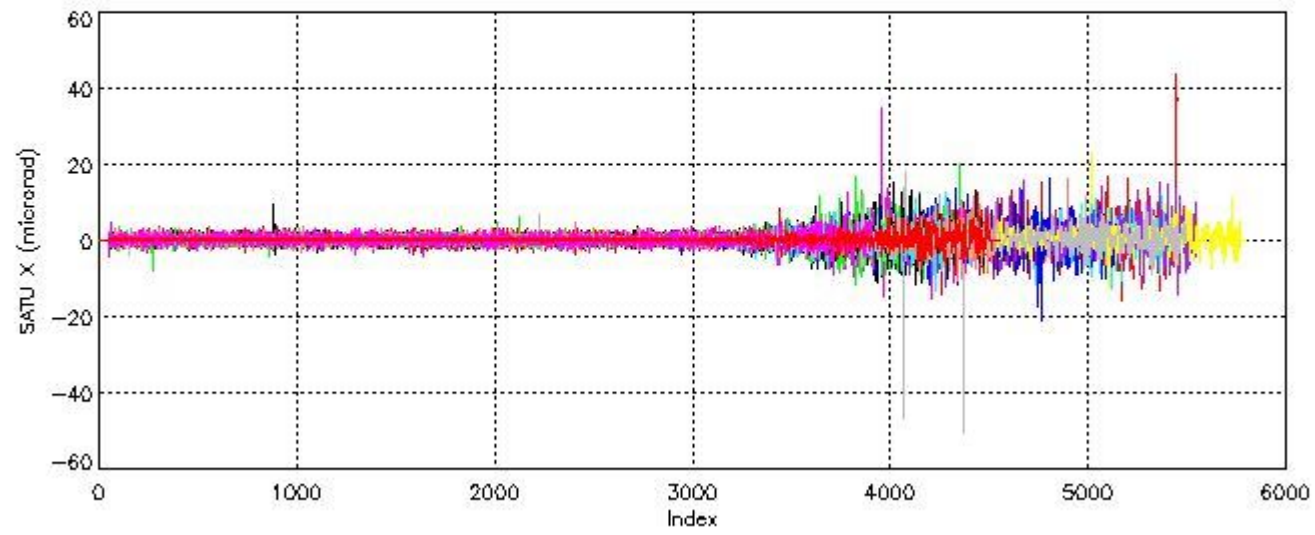


7. Star Acquisition and Tracking Unit (SATU)

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:	0.17053	-1.2418	0.14374	-1.3087
St. deviation:	0.46485	1.0397	0.64111	1.2165
Maximum:	9.7000	18.600	3.6000	3.2000
Minimum:	-7.9000	-6.8000	-3.2000	-5.8000

Number of data:	20750.	20750.	17150.	17150.
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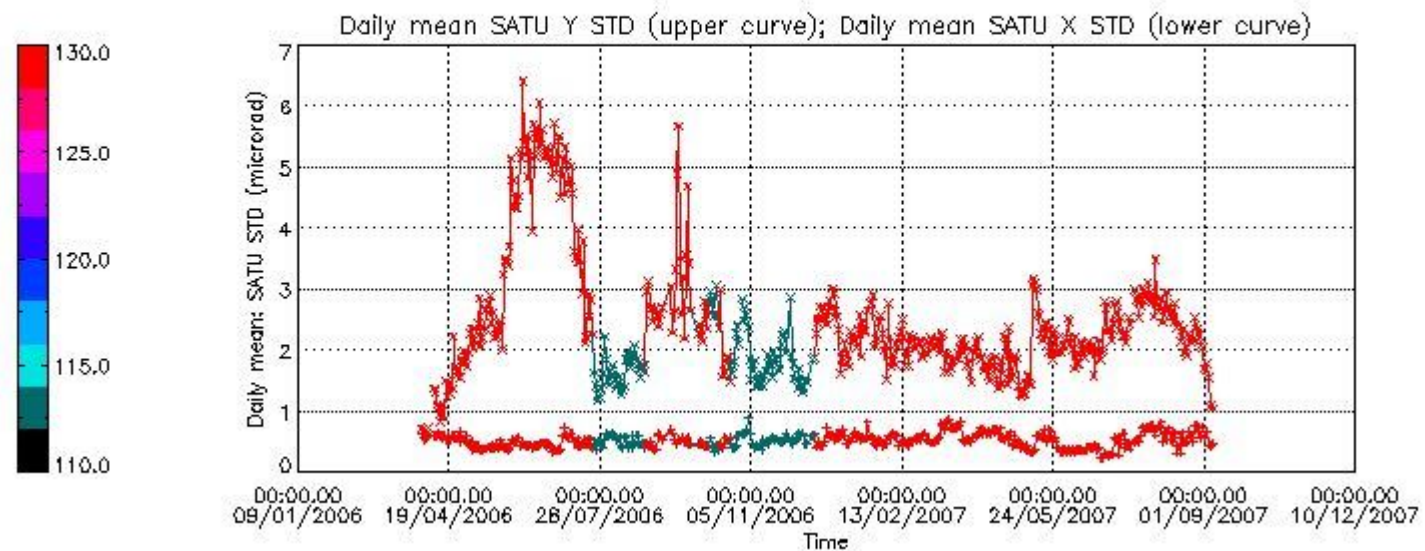
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

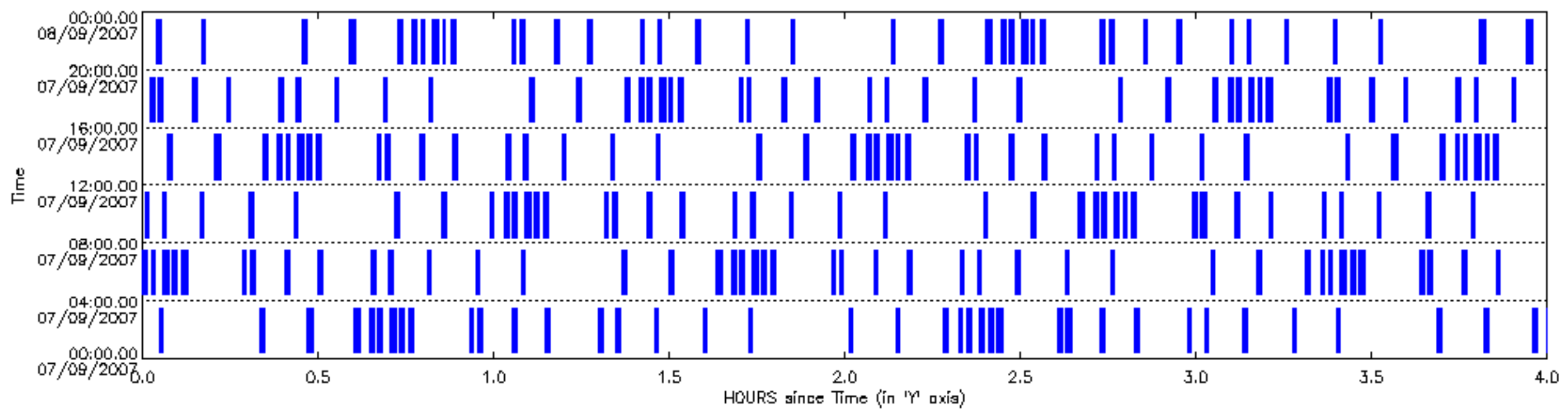
Lower curve: STD of SATU X axis

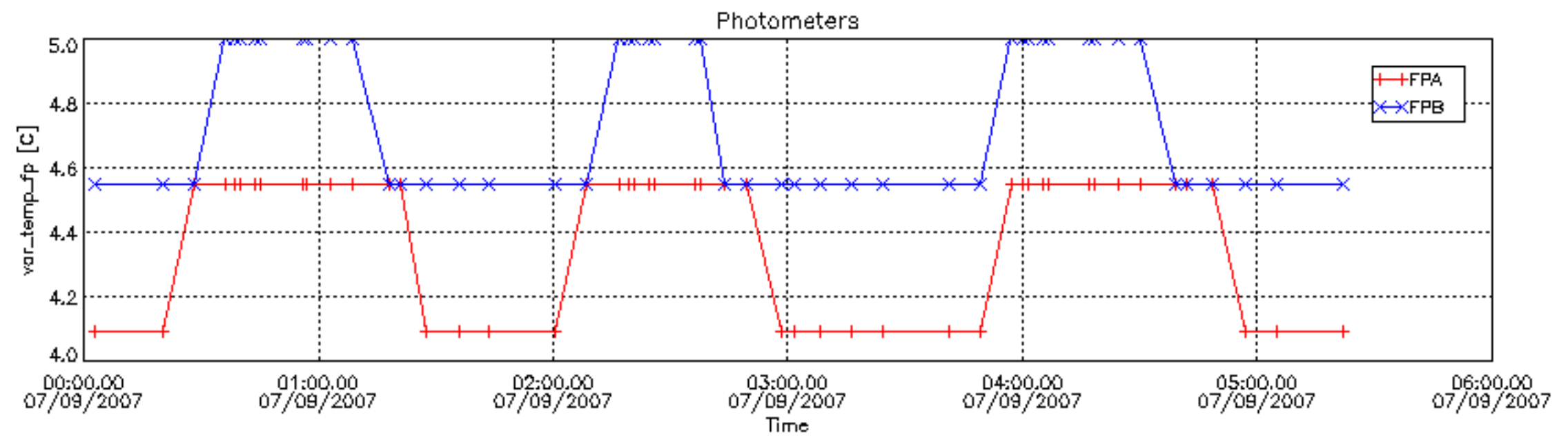
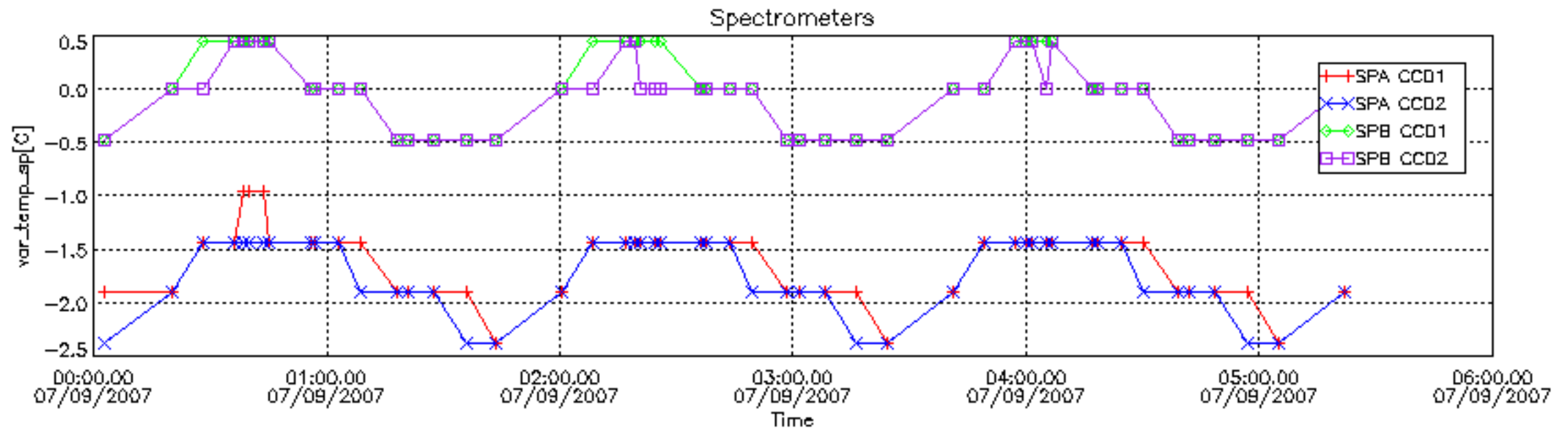


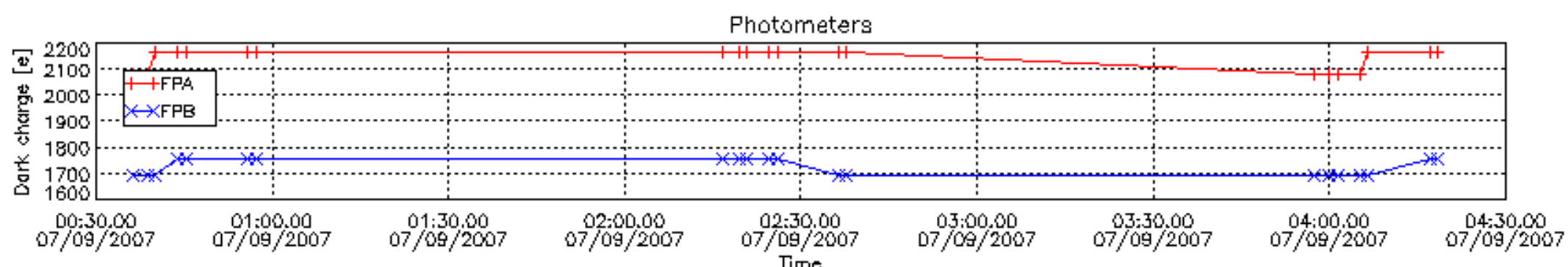
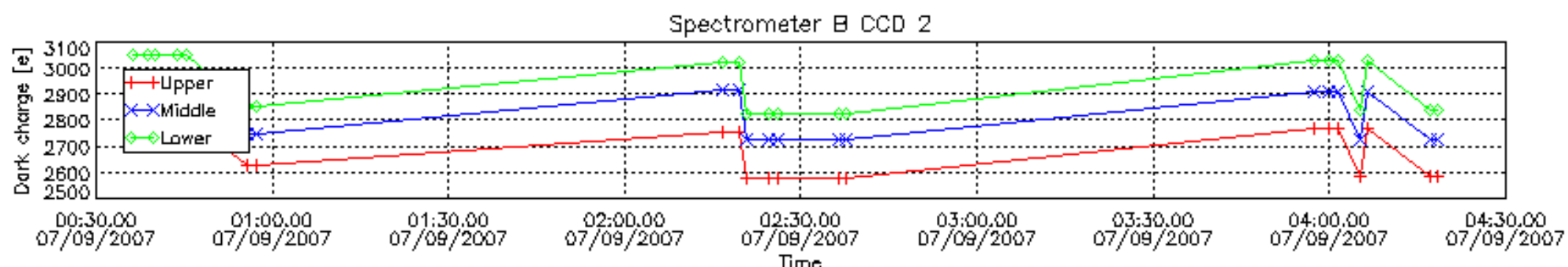
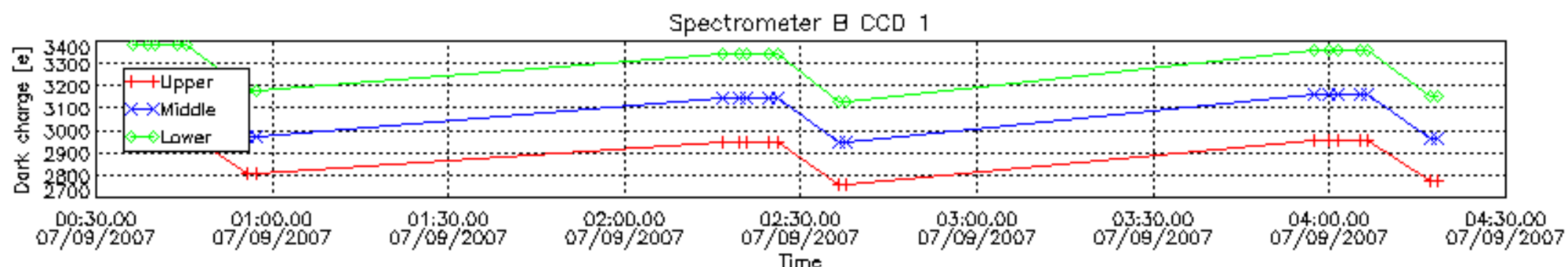
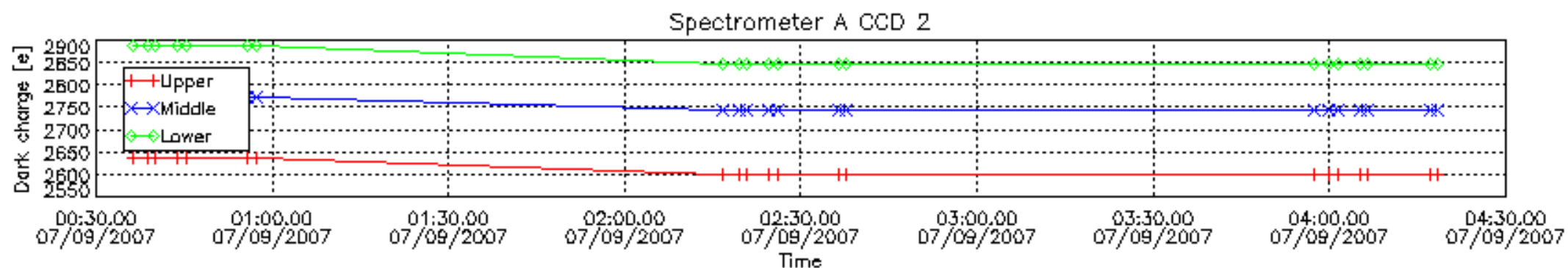
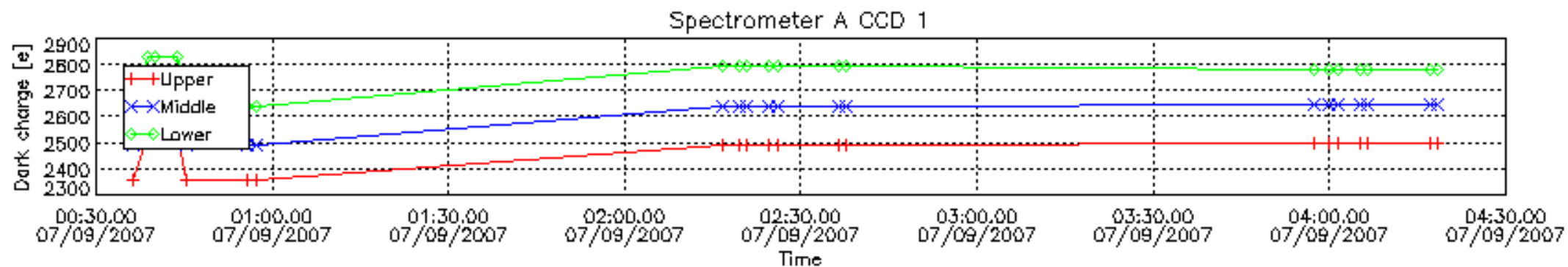
8. Auxiliary Data Files used for the production reported in section 2.4

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.

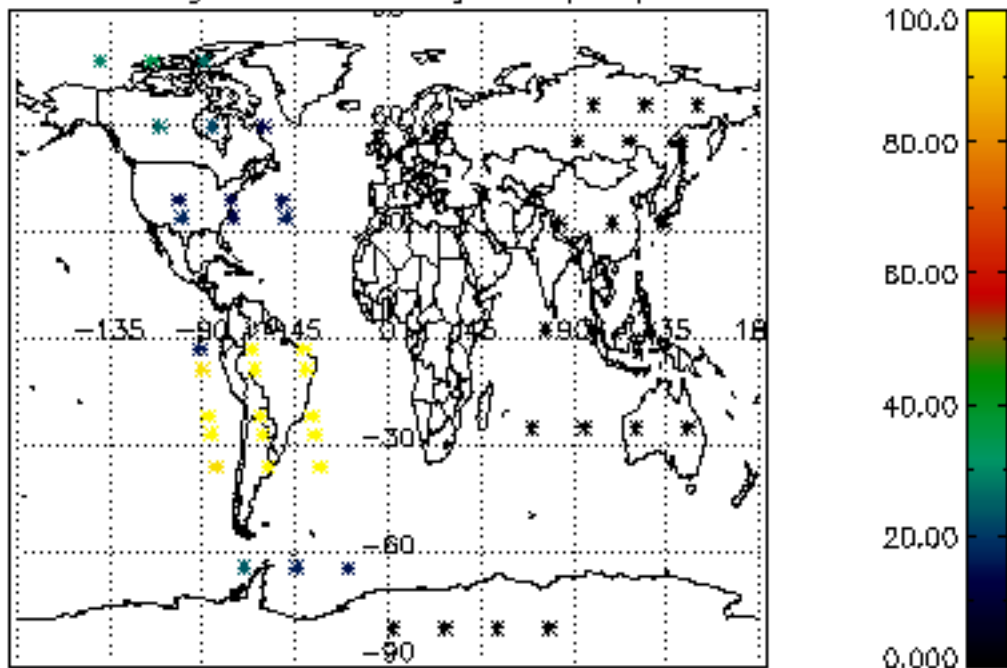
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	07-SEP-2007 00:02:55
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070905_122547_20070904_000000_20100101_000000	1	07-SEP-2007 00:02:55
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	07-SEP-2007 00:02:55
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	07-SEP-2007 00:02:55
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	07-SEP-2007 00:02:55
ECMWF_FILE	AUX_ECF_AXNECM20070906_062112_20070906_210000_20070907_090000	1	07-SEP-2007 00:02:55
OPTIONAL_ECMWF_FILE	MISSING	1	07-SEP-2007 00:02:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070906_195536_000038252061_00243_28854_4121.N1	1	07-SEP-2007 00:02:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070906_225056_000057382061_00244_28855_4123.N1	4	07-SEP-2007 00:36:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070907_020731_000041442061_00246_28857_4125.N1	20	07-SEP-2007 02:16:46



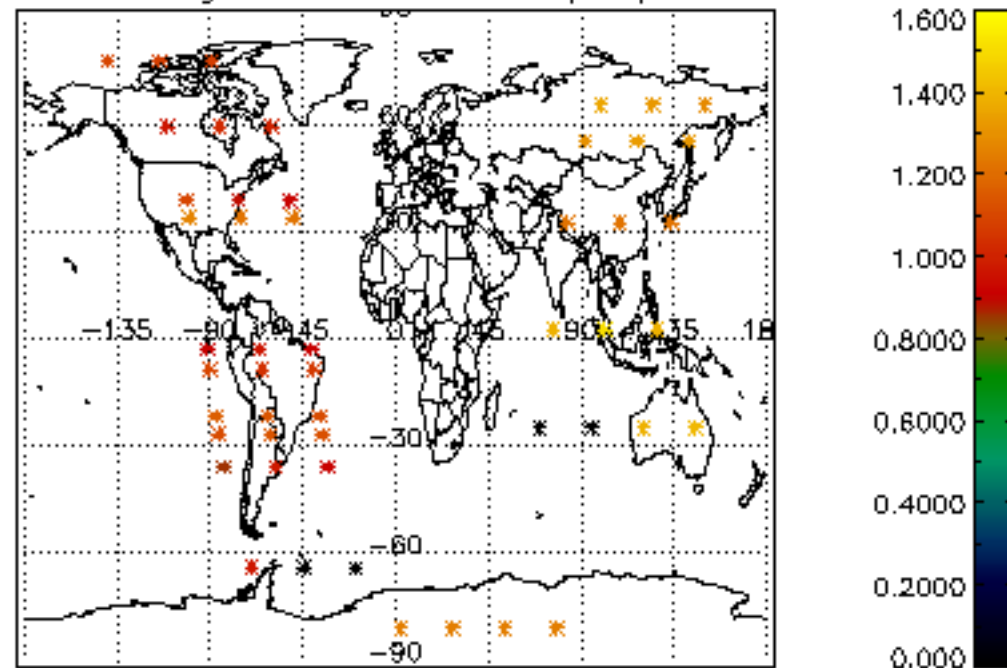




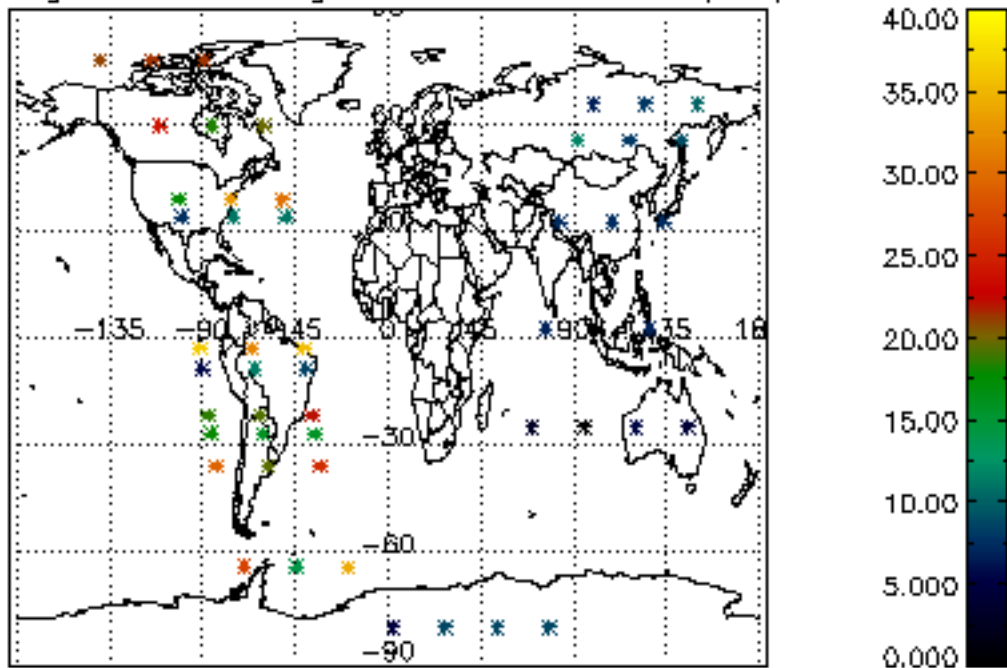
Percentage of cosmic ray hits per profile



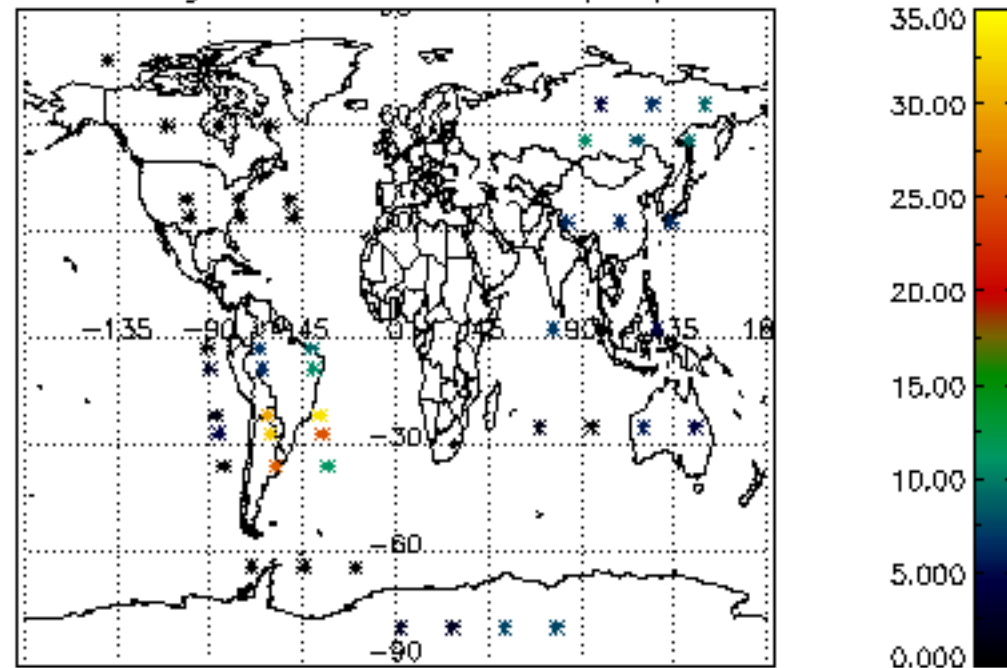
Percentage of datation errors per profile



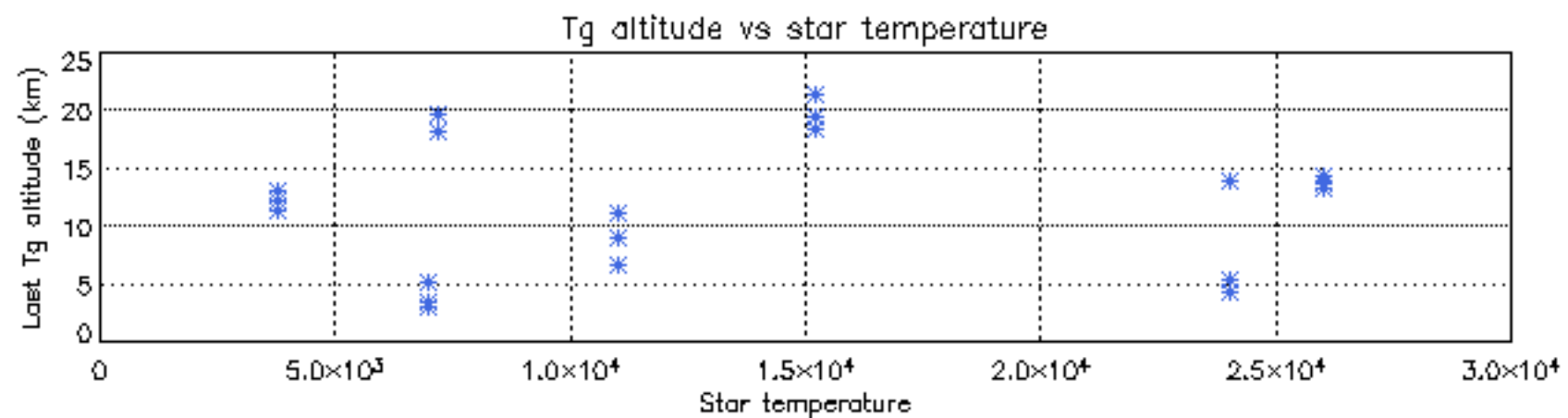
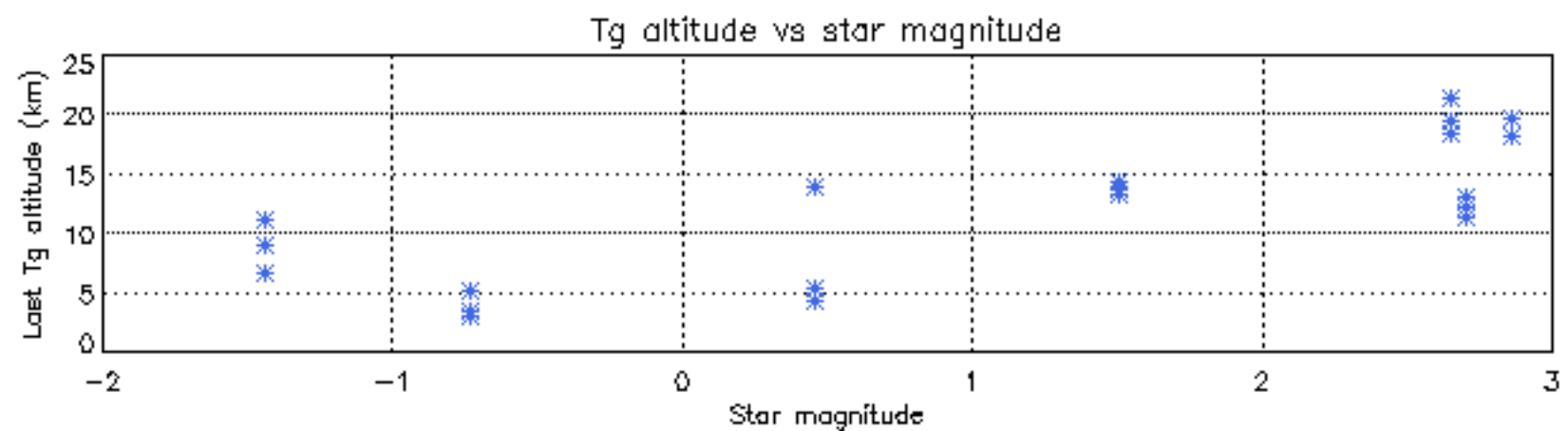
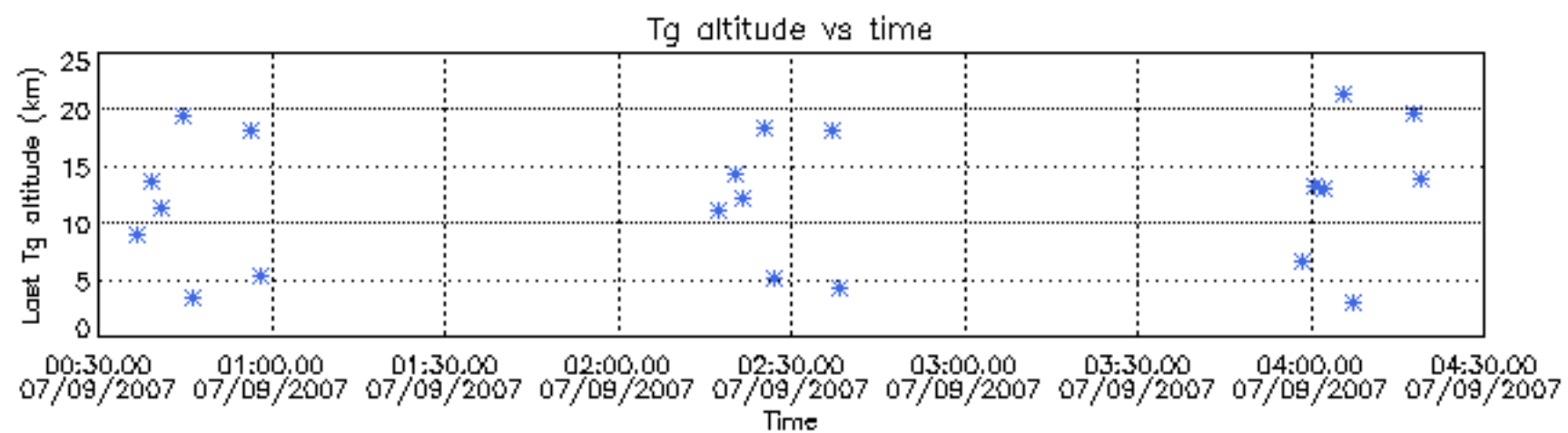
Percentage of star falling outside central band per profile



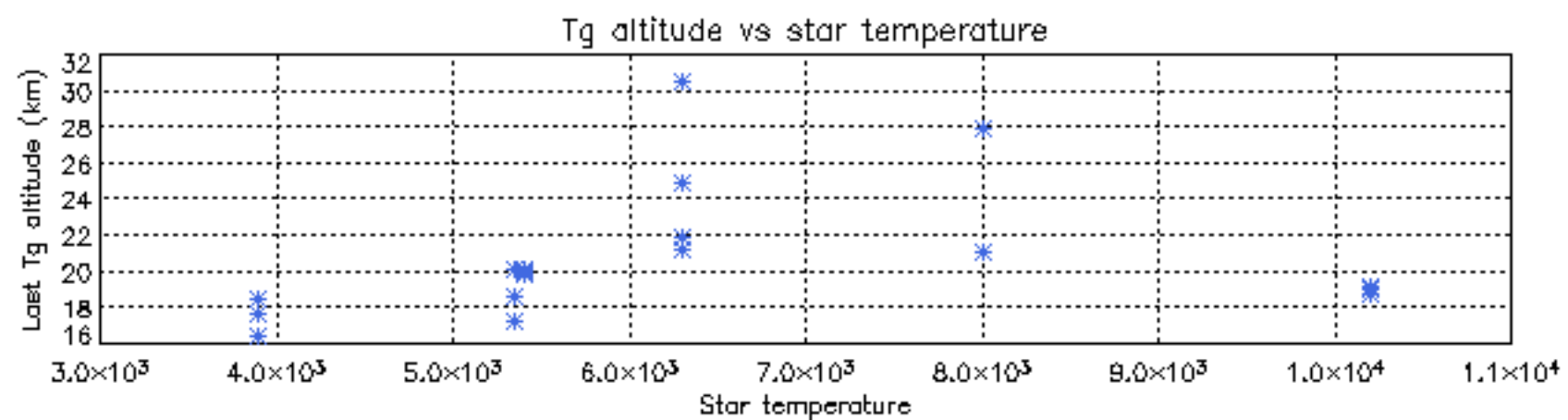
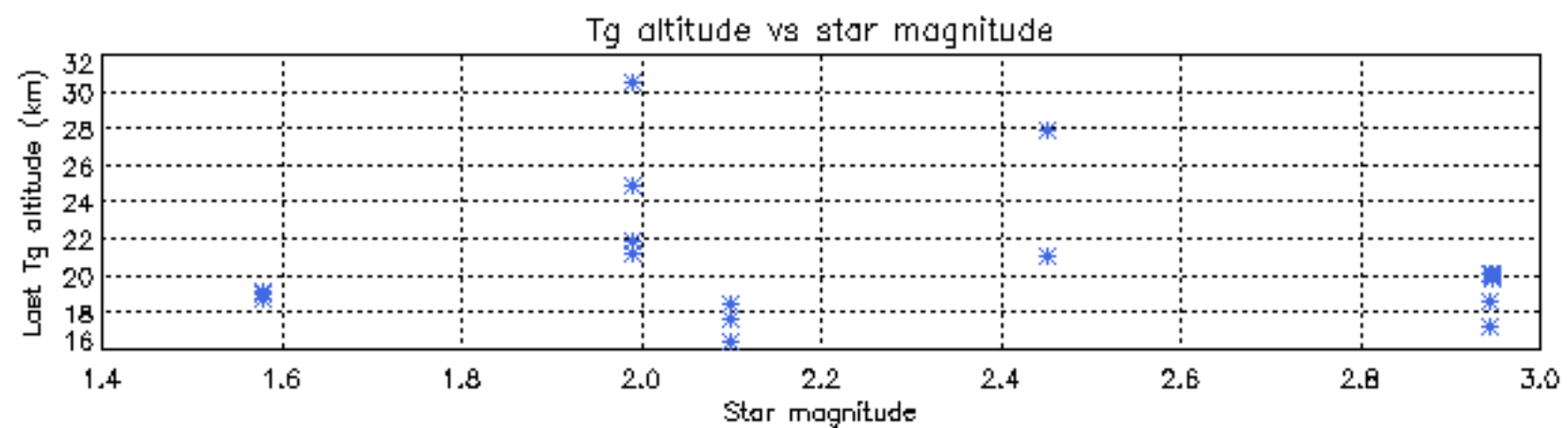
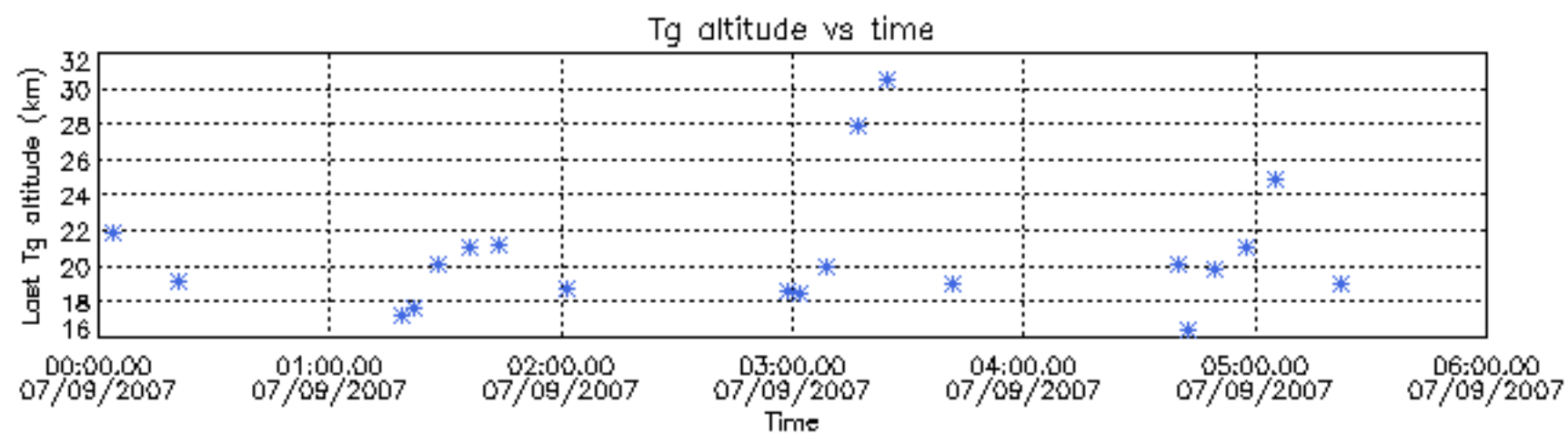
Percentage of saturation errors per profile



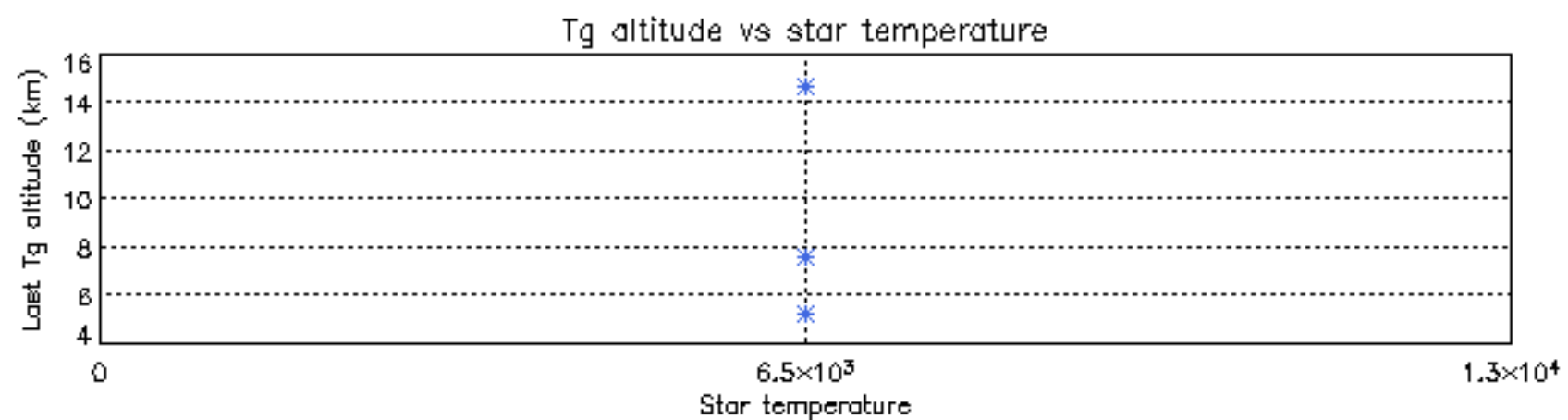
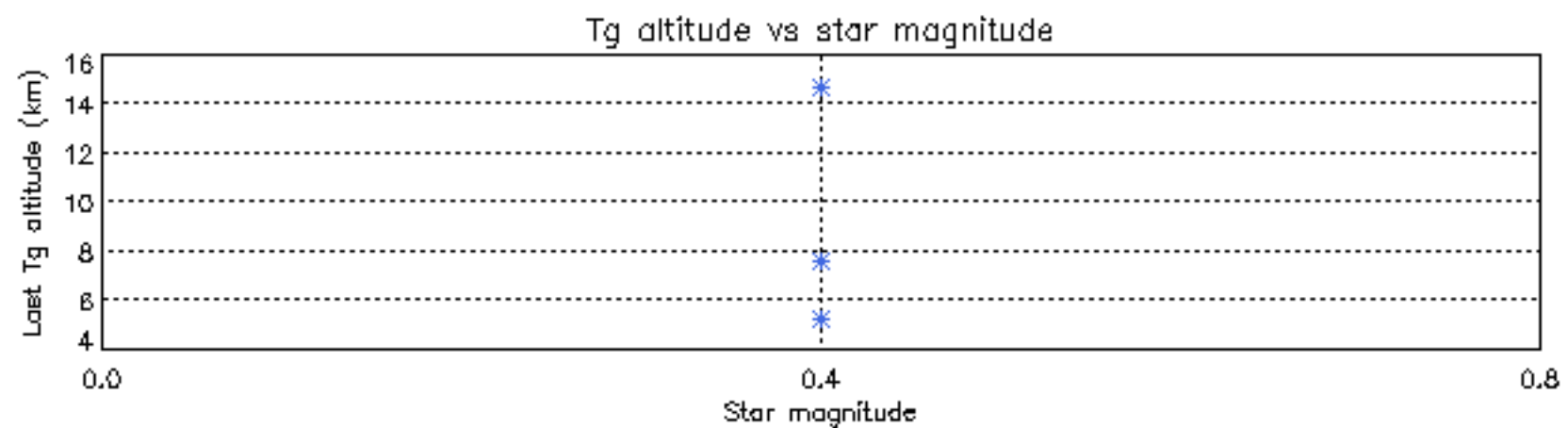
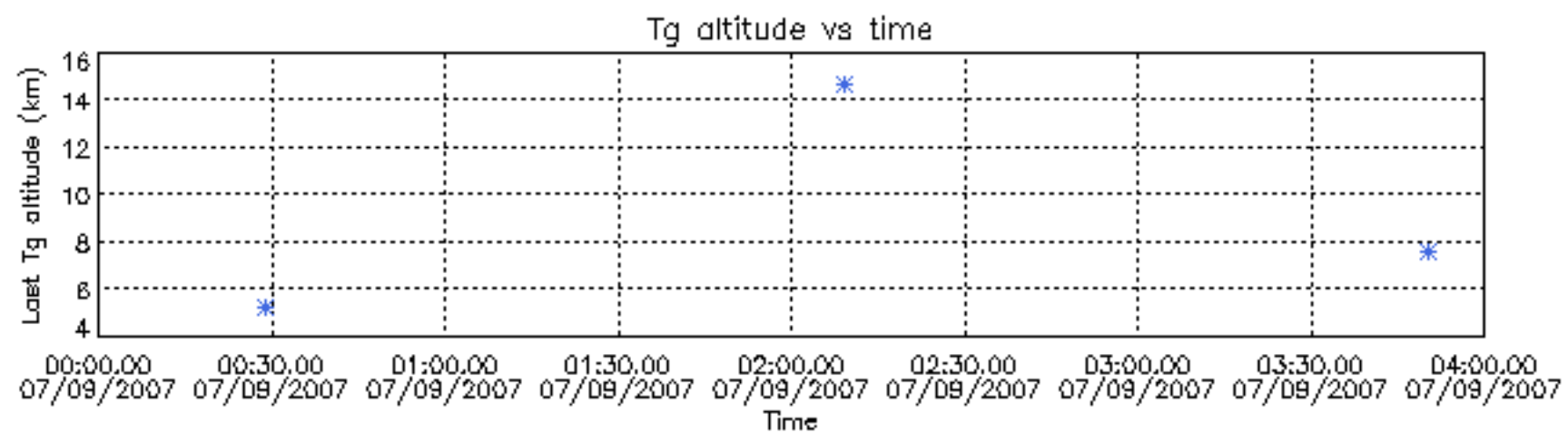
Tangent altitude at which the star is lost

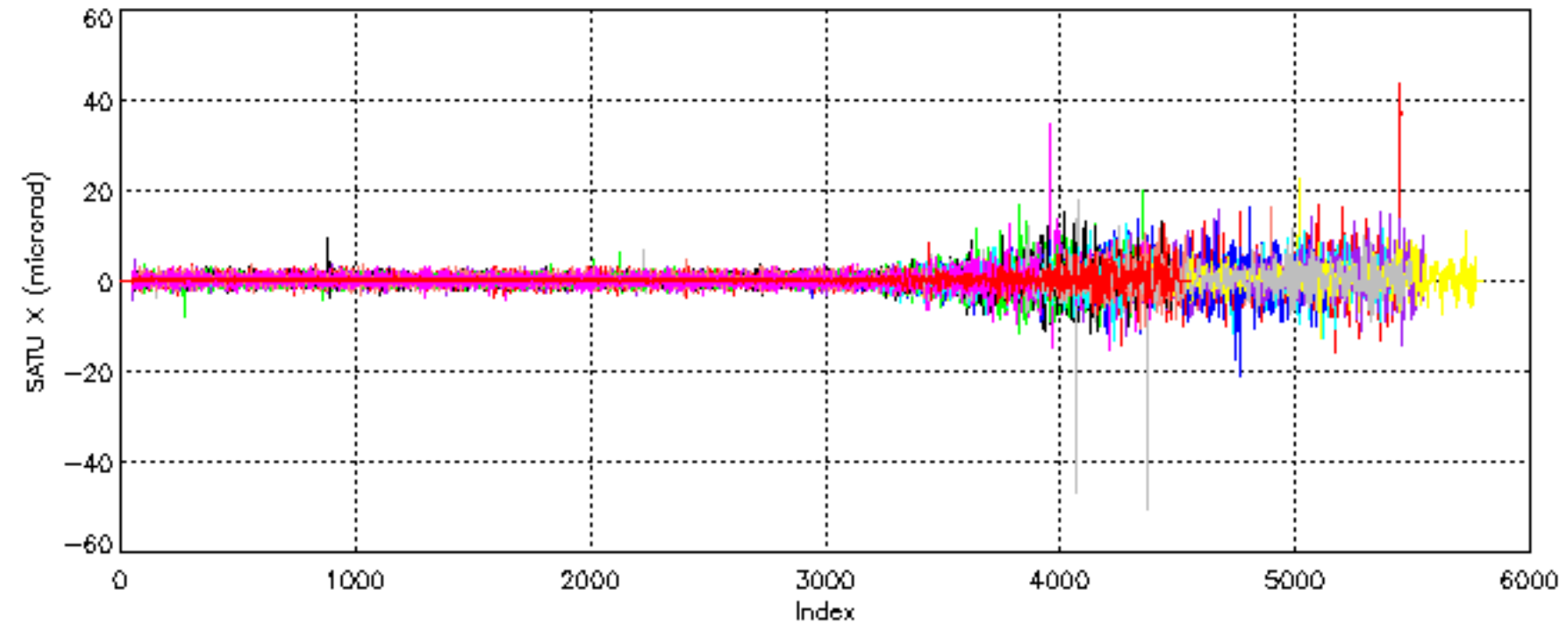


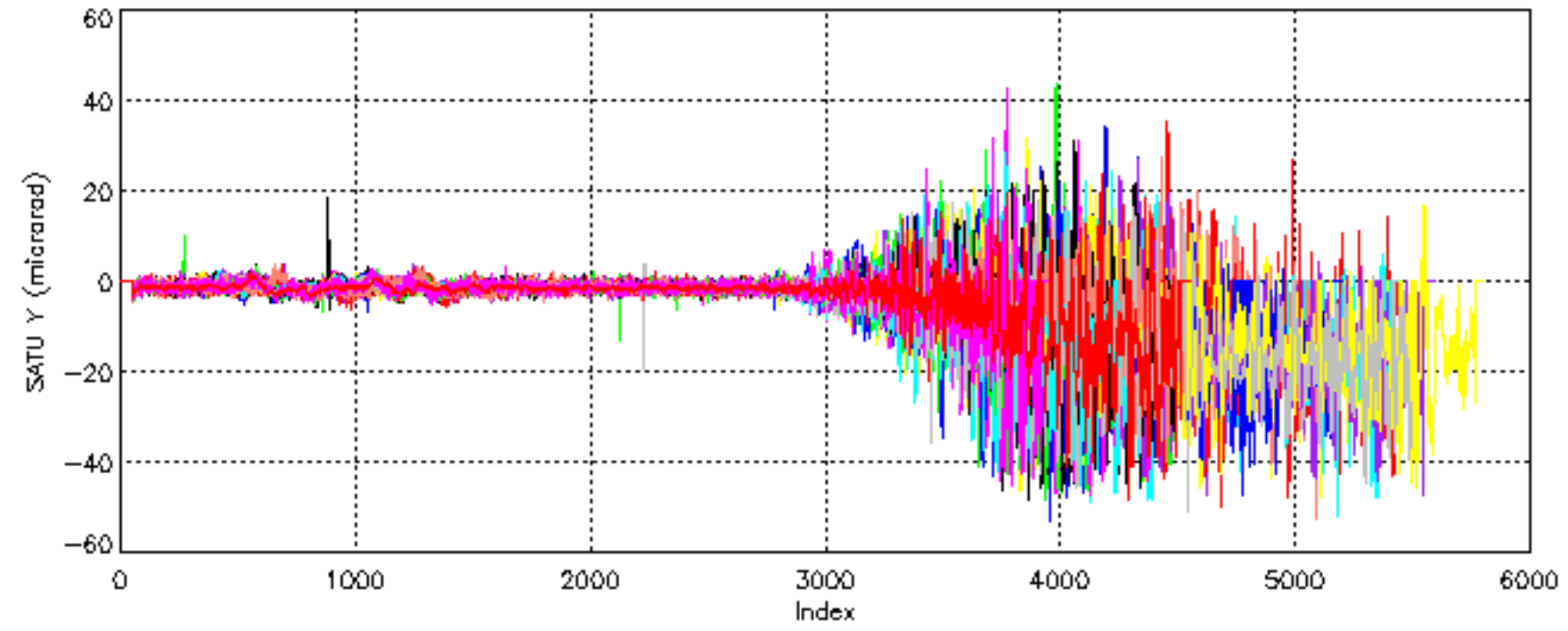
Tangent altitude at which the star is lost

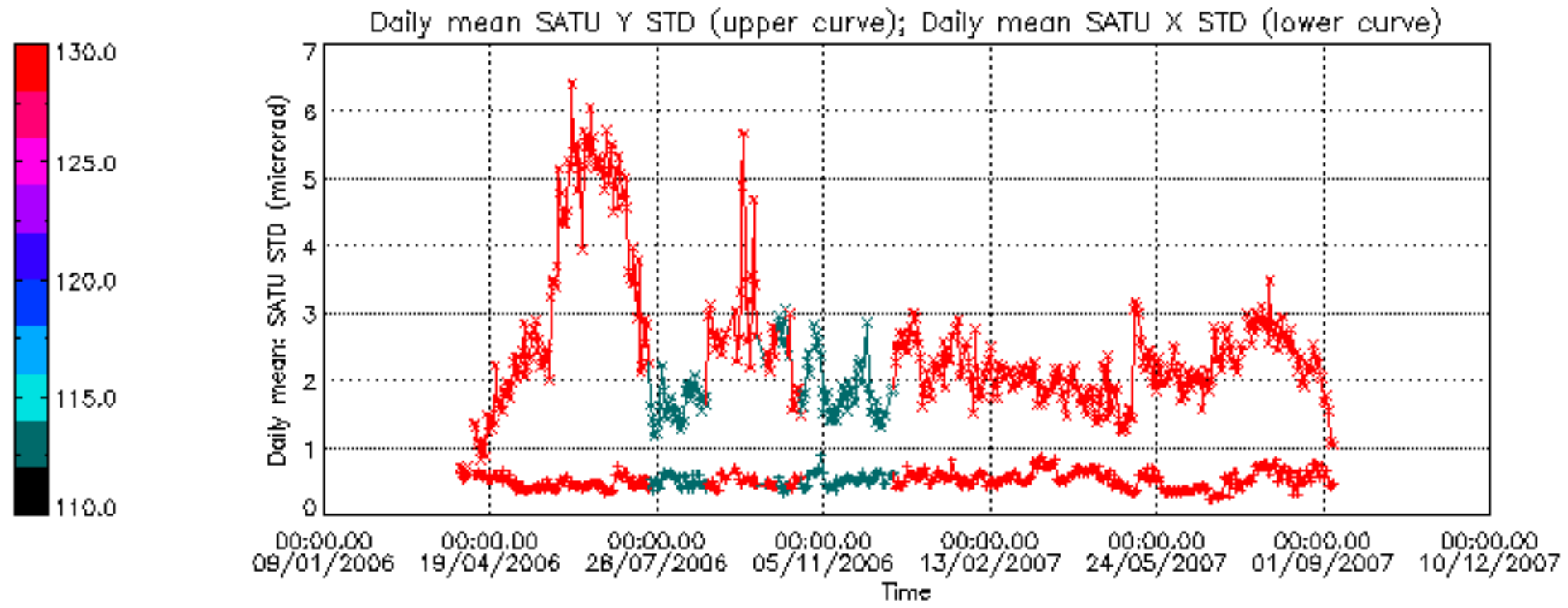


Tangent altitude at which the star is lost









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 2; -499.7; 01-SEP-2007 00:26:28; Dark ; 42.0; 23; 21Eps CMA ; 1.50; 26000;occ; 84; 0;28770
 3; -304.8; 01-SEP-2007 00:29:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28770
 4; 523.8; 01-SEP-2007 00:43:32; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28771
 5; 600.3; 01-SEP-2007 00:44:48; Dark ; 55.5; 9; Alp Eri ; 0.45; 24000;occ; 111; 0;28771
 6; 1048.8; 01-SEP-2007 00:52:17; Dark ; 47.5; 63; Bet Gru ; 2.15; 2800;occ; 95; 0;28771
 7; 1327.7; 01-SEP-2007 00:56:56; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28771
 8; 1618.7; 01-SEP-2007 01:01:47; Dark ; 45.0; 142; 49Del Cap ; 2.85; 8900;occ; 90; 0;28771
 9; 1807.0; 01-SEP-2007 01:04:55; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28771
 10; 1895.7; 01-SEP-2007 01:06:24; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28771
 11; 2075.7; 01-SEP-2007 01:09:24; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28771
 12; 2677.9; 01-SEP-2007 01:19:26; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;28771
 13; 2976.4; 01-SEP-2007 01:24:25; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28771
 14; 3434.7; 01-SEP-2007 01:32:03; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;28771
 15; 4451.6; 01-SEP-2007 01:49:00; Bright; 37.5; 24; 66Alp Gem ; 1.58; 10200;occ; 75; 0;28771
 16; 4610.6; 01-SEP-2007 01:51:39; Dark ; 44.5; 170; 27Eps Gem ; 3.00; 9700;occ; 89; 0;28771
 17; 4790.0; 01-SEP-2007 01:54:38; Dark ; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;28771
 18; 4912.9; 01-SEP-2007 01:56:41; Dark ; 45.5; 8; 10Alp CMi ; 0.40; 6500;occ; 91; 0;28771

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 4; 524.4; 01-SEP-2007 02:24:08; Dark ; 42.0; 143; Alp Hyi ; 2.86; 7200;occ; 84; 0;28772
 5; 601.0; 01-SEP-2007 02:25:25; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;28772
 6; 1049.1; 01-SEP-2007 02:32:53; Dark ; 44.5; 63; Bet Gru ; 2.15; 2800;occ; 89; 0;28772
 7; 1328.1; 01-SEP-2007 02:37:32; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;28772
 8; 1618.9; 01-SEP-2007 02:42:23; Dark ; 41.5; 142; 49Del Cap ; 2.85; 8900;occ; 83; 0;28772
 9; 1807.2; 01-SEP-2007 02:45:31; Bright; 38.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 77; 0;28772
 10; 1895.8; 01-SEP-2007 02:47:00; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28772
 11; 2075.7; 01-SEP-2007 02:50:00; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;28772
 12; 2678.0; 01-SEP-2007 03:00:02; Bright; 34.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 68; 0;28772
 13; 2976.3; 01-SEP-2007 03:05:00; Bright; 33.0; 89; 5Alp Cep ; 2.45; 8000;occ; 66; 0;28772
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 2; -1425.0; 01-SEP-2007 03:32:15; Dark ; 47.5; 170; 27Eps Gem ; 3.00; 9700;occ; 95; 0;28772
 3; -1245.6; 01-SEP-2007 03:35:14; Dark ; 28.0; 44; 24Gam Gem ; 1.93; 11000;occ; 56; 0;28772
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 8; -303.5; 01-SEP-2007 03:50:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28772
 9; 525.1; 01-SEP-2007 04:04:45; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;28773
 10; 601.7; 01-SEP-2007 04:06:02; Dark ; 53.5; 9; Alp Eri ; 0.45; 24000;occ; 107; 0;28773
 11; 1049.6; 01-SEP-2007 04:13:30; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;28773
 12; 1328.5; 01-SEP-2007 04:18:09; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;28773
 13; 1619.1; 01-SEP-2007 04:22:59; Dark ; 53.0; 142; 49Del Cap ; 2.85; 8900;occ; 106; 0;28773
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 15; 1895.9; 01-SEP-2007 04:27:36; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28773
 16; 2075.9; 01-SEP-2007 04:30:36; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;28773
 17; 2678.2; 01-SEP-2007 04:40:38; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;28773
 18; 2976.3; 01-SEP-2007 04:45:36; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28773
 19; 3434.8; 01-SEP-2007 04:53:15; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;28773

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 2; -1424.8; 01-SEP-2007 05:12:51; Dark ; 48.0; 170; 27Eps Gem ; 3.00; 9700;occ; 96; 0;28773
 3; -1245.1; 01-SEP-2007 05:15:51; Dark ; 28.0; 44; 24Gam Gem ; 1.93; 11000;occ; 56; 0;28773
 4; -1122.4; 01-SEP-2007 05:17:54; Dark ; 42.5; 8; 10Alp CMi ; 0.40; 6500;occ; 85; 0;28773
 5; -664.1; 01-SEP-2007 05:25:32; Dark ; 50.0; 1; 9Alp CMA ; -1.44; 11000;occ; 100; 0;28773
 6; -498.1; 01-SEP-2007 05:28:18; Dark ; 46.5; 23; 21Eps CMA ; 1.50; 26000;occ; 93; 0;28773
 7; -397.9; 01-SEP-2007 05:29:58; Dark ; 40.5; 177; 1Zet CMA ; 3.02; 26000;occ; 81; 0;28773
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 9; 525.7; 01-SEP-2007 05:45:22; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28774
 10; 602.3; 01-SEP-2007 05:46:38; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;28774
 11; 1050.0; 01-SEP-2007 05:54:06; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;28774
 12; 1328.8; 01-SEP-2007 05:58:45; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;28774
 13; 1619.2; 01-SEP-2007 06:03:35; Dark ; 43.5; 142; 49Del Cap ; 2.85; 8900;occ; 87; 0;28774


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14; 1807.3; 01-SEP-2007 06:06:43; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28774
15; 1896.0; 01-SEP-2007 06:08:12; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28774
16; 2075.8; 01-SEP-2007 06:11:12; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;28774
17; 2678.2; 01-SEP-2007 06:21:14; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;28774
18; 2976.2; 01-SEP-2007 06:26:12; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28774
19; 3434.8; 01-SEP-2007 06:33:51; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;28774
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 2; 1331.2; 01-SEP-2007 21:04:11; Dark ; 47.5; 18; 24Alp PsA ; 1.17; 9700;occ; 95; 0;28783
 3; 1808.1; 01-SEP-2007 21:12:08; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28783
 4; 1895.6; 01-SEP-2007 21:13:35; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;28783
 5; 2075.4; 01-SEP-2007 21:16:35; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28783
 6; 2975.2; 01-SEP-2007 21:31:35; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;28783
 7; 3434.6; 01-SEP-2007 21:39:14; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28783
 8; 4453.3; 01-SEP-2007 21:56:13; Bright; 37.5; 24; 66Alp Gem ; 1.58; 10200;occ; 75; 0;28783
 9; 4613.5; 01-SEP-2007 21:58:53; Dark ; 52.0; 170; 27Eps Gem ; 3.00; 9700;occ; 104; 0;28783
10; 4916.7; 01-SEP-2007 22:03:56; Dark ; 52.0; 8; 10Alp CMi ; 0.40; 6500;occ; 104; 0;28783
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 3; -296.2; 01-SEP-2007 22:17:39; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28783
 4; 531.1; 01-SEP-2007 22:31:26; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28784
 5; 608.4; 01-SEP-2007 22:32:44; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;28784
 6; 1053.0; 01-SEP-2007 22:40:08; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;28784
 7; 1331.4; 01-SEP-2007 22:44:47; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;28784
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12; 2975.2; 01-SEP-2007 23:12:10; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;28784
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 3; -390.1; 01-SEP-2007 23:56:41; Dark ; 40.5; 177; 1Zet CMA ; 3.02; 26000;occ; 81; 0;28784
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9; 1620.7; 02-SEP-2007 02:10:48; Dark ; 42.5; 142; 49Del Cap ; 2.85; 8900;occ; 85; 0;28786
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13; 2974.9; 02-SEP-2007 02:33:22; Bright; 33.5; 89; 5Alp Cep ; 2.45; 8000;occ; 67; 0;28786
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6; -388.7; 02-SEP-2007 03:17:54; Dark ; 42.0; 177; 1Zet CMA ; 3.02; 26000;occ; 84; 0;28786
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9; 532.7; 02-SEP-2007 03:33:16; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28787
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11; 1054.0; 02-SEP-2007 03:41:57; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;28787
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14; 1808.6; 02-SEP-2007 03:54:31; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28787
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17; 2974.9; 02-SEP-2007 04:13:58; Bright; 34.5; 89; 5Alp Cep ; 2.45; 8000;occ; 69; 0;28787
18; 3434.6; 02-SEP-2007 04:21:38; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;28787

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17; 2974.9; 02-SEP-2007 05:54:34; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28788
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9; 4455.3; 02-SEP-2007 21:24:38; Bright; 39.5; 24; 66Alp Gem ; 1.58; 10200;occ; 79; 0;28797
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6; -82.1; 02-SEP-2007 21:49:36; Dark ; 54.0; 2; Alp Car ; -0.74; 7000;occ; 108; 0;28797
7; 538.7; 02-SEP-2007 21:59:57; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28798
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 13; 1895.4; 02-SEP-2007 22:22:34; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28798
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 16; 3434.4; 02-SEP-2007 22:48:13; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;28798
 17; 4455.3; 02-SEP-2007 23:05:13; Bright; 35.5; 24; 66Alp Gem ; 1.58; 10200;occ; 71; 0;28798
 18; 4921.5; 02-SEP-2007 23:13:00; Dark ; 55.0; 8; 10Alp CMi ; 0.40; 6500;occ; 110; 0;28798
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 3; -286.1; 02-SEP-2007 23:26:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28798
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 5; 539.3; 02-SEP-2007 23:40:33; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28799
 6; 617.4; 02-SEP-2007 23:41:51; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;28799
 7; 1057.6; 02-SEP-2007 23:49:12; Dark ; 46.0; 63; Bet Gru ; 2.15; 2800;occ; 92; 0;28799
 8; 1335.4; 02-SEP-2007 23:53:49; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;28799
 9; 1622.4; 02-SEP-2007 23:58:36; Dark ; 45.0; 142; 49Del Cap ; 2.85; 8900;occ; 90; 0;28799
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 12; 5997.4; 23-SEP-2007 10:46:19; Dark ; 38.5; 41; Eps Car ; 1.86; 4100;occ; 77; 0;29091
 13; 6623.9; 23-SEP-2007 10:56:46; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;29091
 14; 6720.5; 23-SEP-2007 10:58:22; Dark ; 31.0; 143; Alp Hyi ; 2.86; 7200;occ; 62; 0;29091
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15; 6624.4; 23-SEP-2007 15:58:34; Dark ; 38.0; 135; Bet Hyi ; 2.82; 5800;occ; 76; 0;29094
16; 6722.0; 23-SEP-2007 16:00:11; Dark ; 35.0; 143; Alp Hyi ; 2.86; 7200;occ; 70; 0;29094
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6; 3519.7; 23-SEP-2007 16:47:25; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;29095
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4; 2104.6; 23-SEP-2007 18:04:26; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;29096
5; 2981.7; 23-SEP-2007 18:19:03; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;29096
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9; 3978.8; 23-SEP-2007 18:35:40; Bright; 52.0; 82; 48Bet UMA ; 2.37; 10600;occ; 104; 0;29096
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13; 5793.3; 23-SEP-2007 19:05:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29096
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