

GOMOS Daily Report 22-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	25SEP2007 13:05:07
Data source version	GOMOS/5.00
Start time of products	22-09-2007 (22SEP2007 00:00:00)
Stop time of products	23-09-2007 (23SEP2007 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)

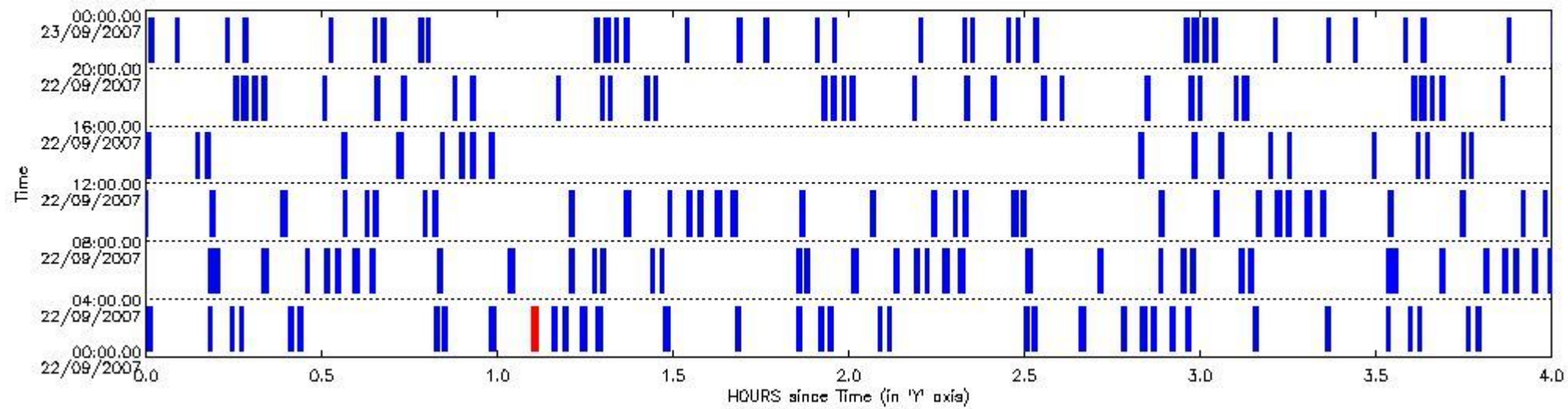
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

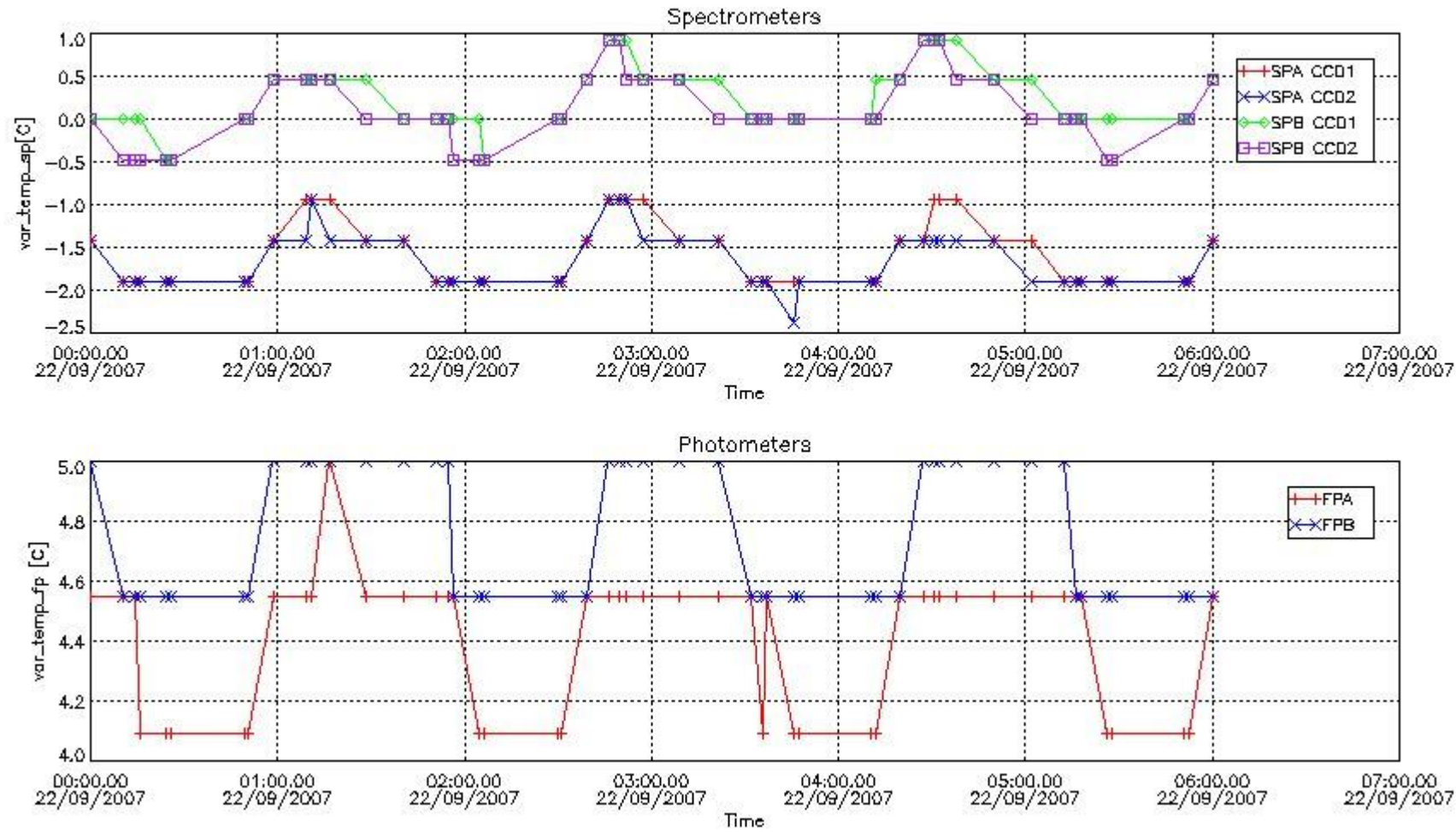
UTC start time	Star name	Star ID	Orbit
22-SEP-2007 01:05:52	15RhoPup	132	29071

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_1PNPDE20070922_000002_000000572061_00460_29071_7040.N1	22-SEP-2007 00:00:02	Twilight_and_stray	57.000	52	16Bet Cet	2.0370	4500.0	114	29071	No
2	GOM_TRA_1PNPDE20070922_001033_000000382061_00460_29071_7041.N1	22-SEP-2007 00:10:33	Bright	38.000	90	54Alp Peg	2.4870	11000.	76	29071	No
3	GOM_TRA_1PNPDE20070922_001419_000000412061_00460_29071_7042.N1	22-SEP-2007 00:14:19	Bright	40.500	93	53Bet Peg	2.5200	3100.0	81	29071	No
4	GOM_TRA_1PNPDE20070922_001552_000000452061_00460_29071_7043.N1	22-SEP-2007 00:15:52	Bright	44.500	58	21Alp And	2.0730	11000.	89	29071	No
5	GOM_TRA_1PNPDE20070922_002418_000000402061_00460_29071_7044.N1	22-SEP-2007 00:24:18	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	29071	No
6	GOM_TRA_1PNPDE20070922_002556_000000422061_00460_29071_7045.N1	22-SEP-2007 00:25:56	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	29071	No
7	GOM_TRA_1PNPDE20070922_004916_000000482061_00460_29071_7046.N1	22-SEP-2007 00:49:16	Bright	48.000	24	66Alp Gem	1.5800	10200.	96	29071	No
8	GOM_TRA_1PNPDE20070922_005033_000000502061_00460_29071_7047.N1	22-SEP-2007 00:50:33	Bright	50.000	17	78Bet Gem	1.1610	4500.0	100	29071	No
9	GOM_TRA_1PNPDE20070922_005834_000000682061_00460_29071_7048.N1	22-SEP-2007 00:58:34	Dark	67.500	8	10Alp CMi	0.40000	6500.0	135	29071	No
10	GOM_TRA_1PNPDE20070922_010910_000000532061_00460_29071_7180.N1	22-SEP-2007 01:09:10	Dark	53.000	37	25Del CMa	1.8300	5900.0	106	29071	No

11	GOM_TRA_1PNPDE20070922_011105_000000482061_00460_29071_7181.N1	22-SEP-2007 01:11:05	Dark	48.000	117	Pi Pup	2.7060	3800.0	96	29071	No
12	GOM_TRA_1PNPDE20070922_011649_000000552061_00461_29072_7182.N1	22-SEP-2007 01:16:49	Dark	54.500	108	Alp Col	2.6520	15200.	109	29072	No
13	GOM_TRA_1PNPDE20070922_012824_000000542061_00461_29072_7183.N1	22-SEP-2007 01:28:24	Straylight	54.000	157	The1Eri	2.9060	9300.0	108	29072	No
14	GOM_TRA_1PNPDE20070922_014038_000000542061_00461_29072_7184.N1	22-SEP-2007 01:40:38	Twi_and_stray	53.500	52	16Bet Cet	2.0370	4500.0	107	29072	No
15	GOM_TRA_1PNPDE20070922_015109_000000372061_00461_29072_7185.N1	22-SEP-2007 01:51:09	Bright	37.000	90	54Alp Peg	2.4870	11000.	74	29072	No
16	GOM_TRA_1PNPDE20070922_015455_000000402061_00461_29072_7186.N1	22-SEP-2007 01:54:55	Bright	40.000	93	53Bet Peg	2.5200	3100.0	80	29072	No
17	GOM_TRA_1PNPDE20070922_015628_000000452061_00461_29072_7187.N1	22-SEP-2007 01:56:28	Bright	44.500	58	21Alp And	2.0730	11000.	89	29072	No
18	GOM_TRA_1PNPDE20070922_020453_000000412061_00461_29072_7188.N1	22-SEP-2007 02:04:53	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	29072	No
19	GOM_TRA_1PNPDE20070922_020631_000000402061_00461_29072_7189.N1	22-SEP-2007 02:06:31	Bright	39.500	76	27Gam Cas	2.3000	30000.	79	29072	No
20	GOM_TRA_1PNPDE20070922_022952_000000492061_00461_29072_7336.N1	22-SEP-2007 02:29:52	Bright	49.000	24	66Alp Gem	1.5800	10200.	98	29072	No
21	GOM_TRA_1PNPDE20070922_023109_000000492061_00461_29072_7337.N1	22-SEP-2007 02:31:09	Bright	49.000	17	78Bet Gem	1.1610	4500.0	98	29072	No
22	GOM_TRA_1PNPDE20070922_023911_000000642061_00461_29072_7338.N1	22-SEP-2007 02:39:11	Dark	64.000	8	10Alp CMi	0.40000	6500.0	128	29072	No
23	GOM_TRA_1PNPDE20070922_024632_000000432061_00461_29072_7339.N1	22-SEP-2007 02:46:32	Dark	42.500	132	15Rho Pup	2.8030	6900.0	85	29072	No
24	GOM_TRA_1PNPDE20070922_024947_000000542061_00461_29072_7340.N1	22-SEP-2007 02:49:47	Dark	53.500	37	25Del CMa	1.8300	5900.0	107	29072	No
25	GOM_TRA_1PNPDE20070922_025142_000000442061_00461_29072_7341.N1	22-SEP-2007 02:51:42	Dark	44.000	117	Pi Pup	2.7060	3800.0	88	29072	No
26	GOM_TRA_1PNPDE20070922_025727_000000542061_00462_29073_7342.N1	22-SEP-2007 02:57:27	Dark	54.000	108	Alp Col	2.6520	15200.	108	29073	No
27	GOM_TRA_1PNPDE20070922_030901_000000532061_00462_29073_7343.N1	22-SEP-2007 03:09:01	Straylight	53.000	157	The1Eri	2.9060	9300.0	106	29073	No
28	GOM_TRA_1PNPDE20070922_032114_000000552061_00462_29073_7344.N1	22-SEP-2007 03:21:14	Twi_and_stray	55.000	52	16Bet Cet	2.0370	4500.0	110	29073	No
29	GOM_TRA_1PNPDE20070922_033145_000000372061_00462_29073_7345.N1	22-SEP-2007 03:31:45	Bright	37.000	90	54Alp Peg	2.4870	11000.	74	29073	No
30	GOM_TRA_1PNPDE20070922_033531_000000412061_00462_29073_7346.N1	22-SEP-2007 03:35:31	Bright	40.500	93	53Bet Peg	2.5200	3100.0	81	29073	No
31	GOM_TRA_1PNPDE20070922_033703_000000432061_00462_29073_7347.N1	22-SEP-2007 03:37:03	Bright	43.000	58	21Alp And	2.0730	11000.	86	29073	No
32	GOM_TRA_1PNPDE20070922_034529_000000372061_00462_29073_7348.N1	22-SEP-2007 03:45:29	Bright	36.500	74	11Bet Cas	2.2680	6600.0	73	29073	No
33	GOM_TRA_1PNPDE20070922_034707_000000382061_00462_29073_7349.N1	22-SEP-2007 03:47:07	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	29073	No
34	GOM_TRA_1PNPDE20070922_041028_000000492061_00462_29073_7507.N1	22-SEP-2007 04:10:28	Bright	49.000	24	66Alp Gem	1.5800	10200.	98	29073	No
35	GOM_TRA_1PNPDE20070922_041145_000000492061_00462_29073_7508.N1	22-SEP-2007 04:11:45	Bright	49.000	17	78Bet Gem	1.1610	4500.0	98	29073	No
36	GOM_TRA_1PNPDE20070922_041947_000000582061_00462_29073_7509.N1	22-SEP-2007 04:19:47	Dark	58.000	8	10Alp CMi	0.40000	6500.0	116	29073	No
37	GOM_TRA_1PNPDE20070922_042708_000000432061_00462_29073_7510.N1	22-SEP-2007 04:27:08	Dark	42.500	132	15Rho Pup	2.8030	6900.0	85	29073	No
38	GOM_TRA_1PNPDE20070922_043024_000000502061_00462_29073_7511.N1	22-SEP-2007 04:30:24	Dark	50.000	37	25Del CMa	1.8300	5900.0	100	29073	No
39	GOM_TRA_1PNPDE20070922_043218_000000472061_00462_29073_7512.N1	22-SEP-2007 04:32:18	Dark	46.500	117	Pi Pup	2.7060	3800.0	93	29073	No
40	GOM_TRA_1PNPDE20070922_043804_000000552061_00463_29074_7513.N1	22-SEP-2007 04:38:04	Dark	54.500	108	Alp Col	2.6520	15200.	109	29074	No
41	GOM_TRA_1PNPDE20070922_044938_000000542061_00463_29074_7514.N1	22-SEP-2007 04:49:38	Straylight	53.500	157	The1Eri	2.9060	9300.0	107	29074	No
42	GOM_TRA_1PNPDE20070922_050150_000000612061_00463_29074_7515.N1	22-SEP-2007 05:01:50	Twi_and_stray	61.000	52	16Bet Cet	2.0370	4500.0	122	29074	No
43	GOM_TRA_1PNPDE20070922_051220_000000382061_00463_29074_7516.N1	22-SEP-2007 05:12:20	Bright	37.500	90	54Alp Peg	2.4870	11000.	75	29074	No
44	GOM_TRA_1PNPDE20070922_051607_000000402061_00463_29074_7517.N1	22-SEP-2007 05:16:07	Bright	39.500	93	53Bet Peg	2.5200	3100.0	79	29074	No
45	GOM_TRA_1PNPDE20070922_051739_000000442061_00463_29074_7518.N1	22-SEP-2007 05:17:39	Bright	44.000	58	21Alp And	2.0730	11000.	88	29074	No
46	GOM_TRA_1PNPDE20070922_052605_000000412061_00463_29074_7519.N1	22-SEP-2007 05:26:05	Bright	41.000	74	11Bet Cas	2.2680	6600.0	82	29074	No
47	GOM_TRA_1PNPDE20070922_052742_000000412061_00463_29074_7520.N1	22-SEP-2007 05:27:42	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	29074	No
48	GOM_TRA_1PNPDE20070922_055105_000000532061_00463_29074_7724.N1	22-SEP-2007 05:51:05	Bright	53.000	24	66Alp Gem	1.5800	10200.	106	29074	No
49	GOM_TRA_1PNPDE20070922_055221_000000502061_00463_29074_7725.N1	22-SEP-2007 05:52:21	Bright	50.000	17	78Bet Gem	1.1610	4500.0	100	29074	No
50	GOM_TRA_1PNPDE20070922_060024_000000692061_00463_29074_7726.N1	22-SEP-2007 06:00:24	Dark	69.000	8	10Alp CMi	0.40000	6500.0	138	29074	No

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



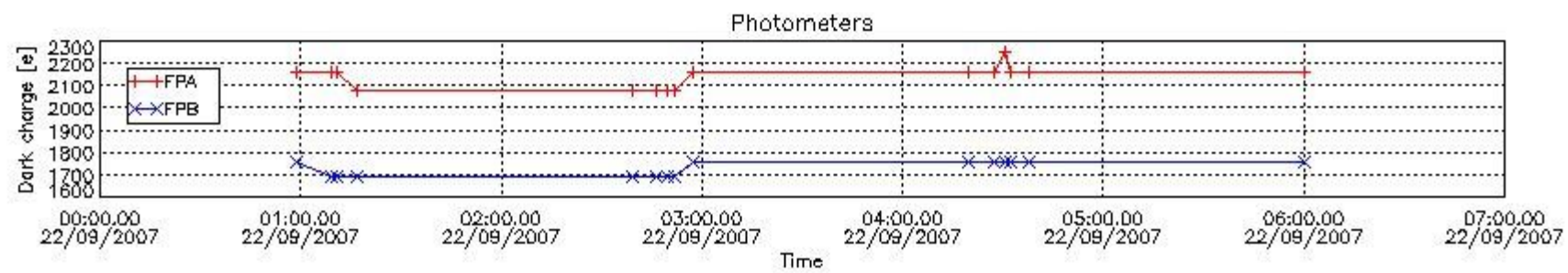
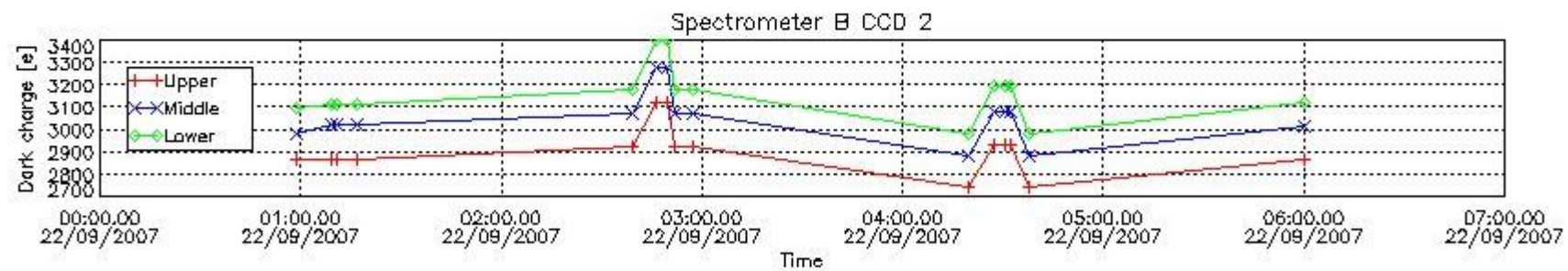
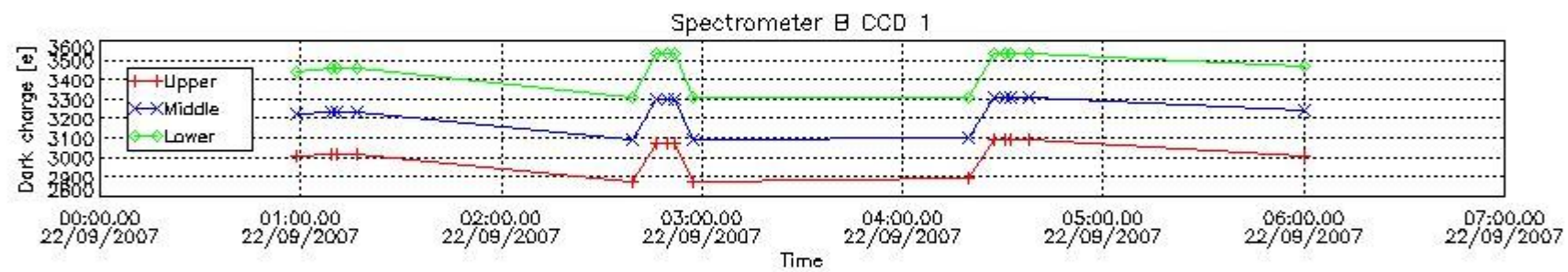
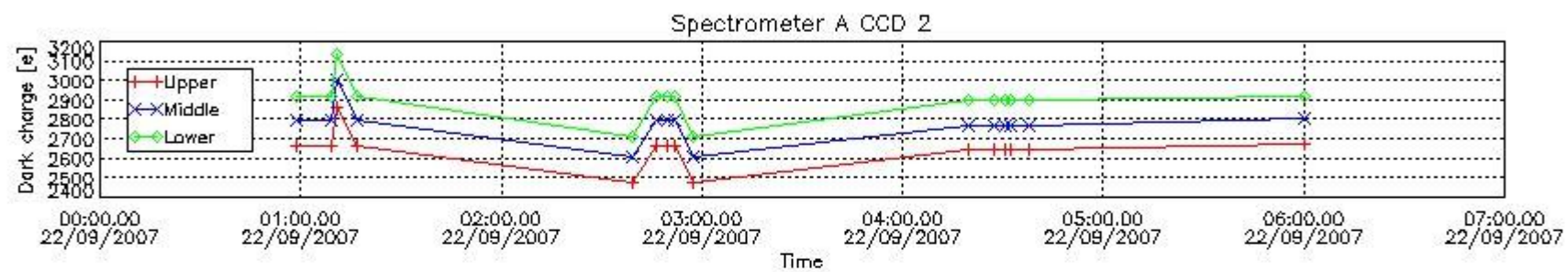
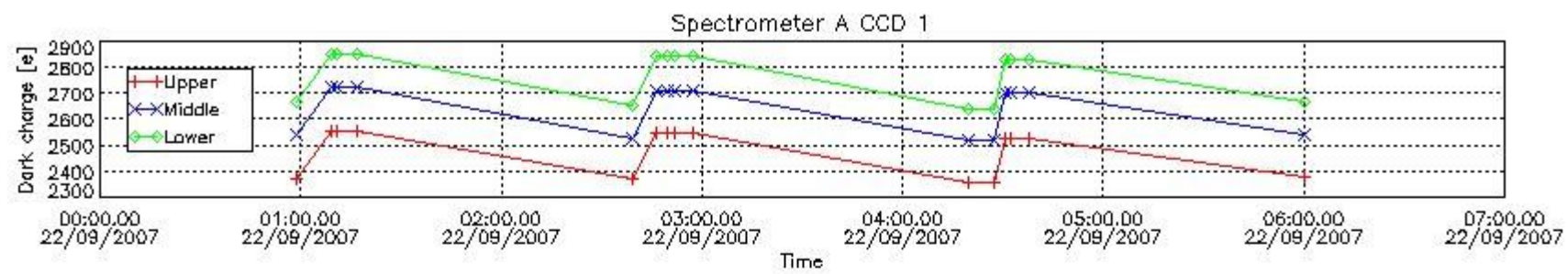
4. Overview of dark signal processing per product

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



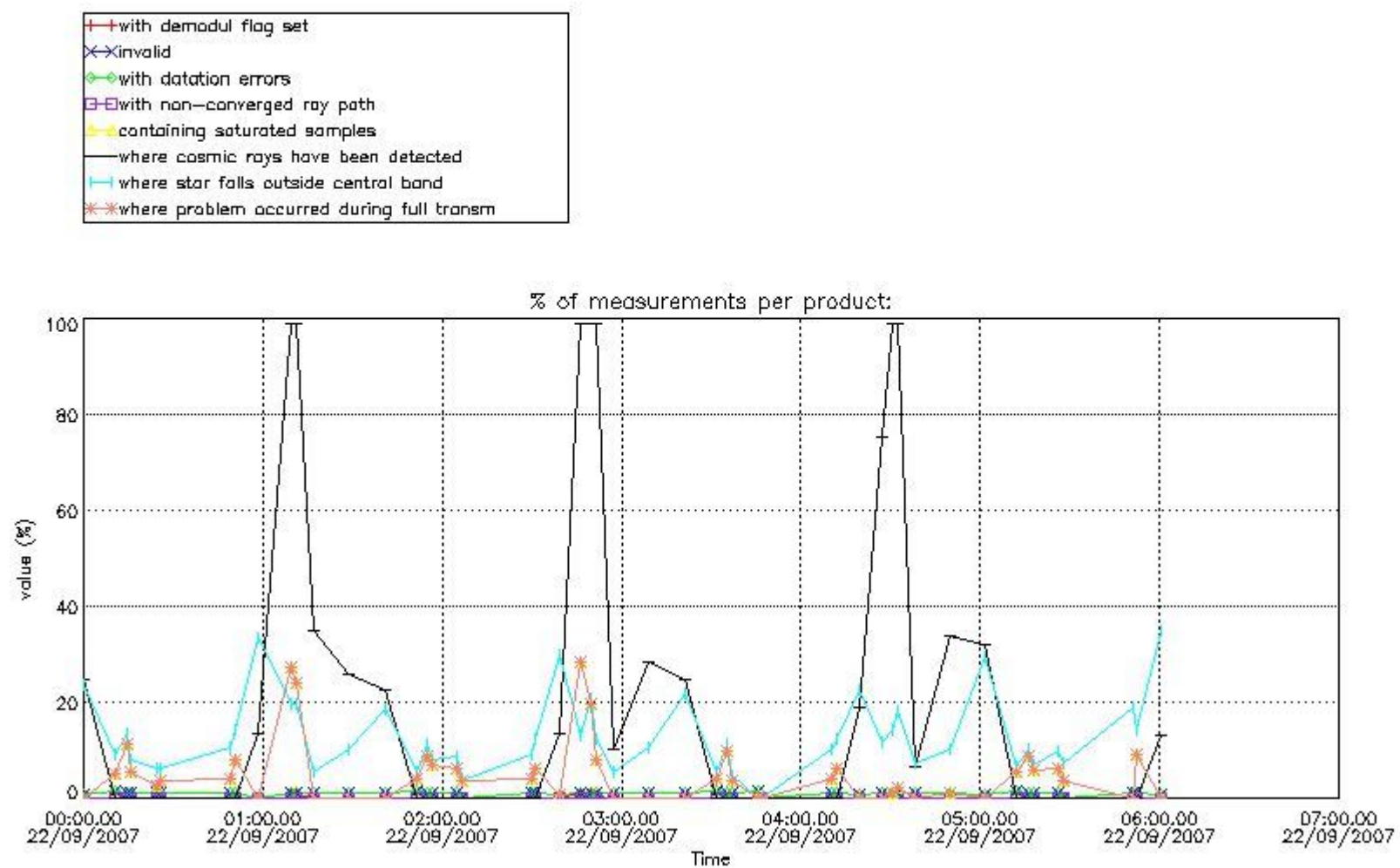
5. Demodulation flag and quality information monitoring

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.

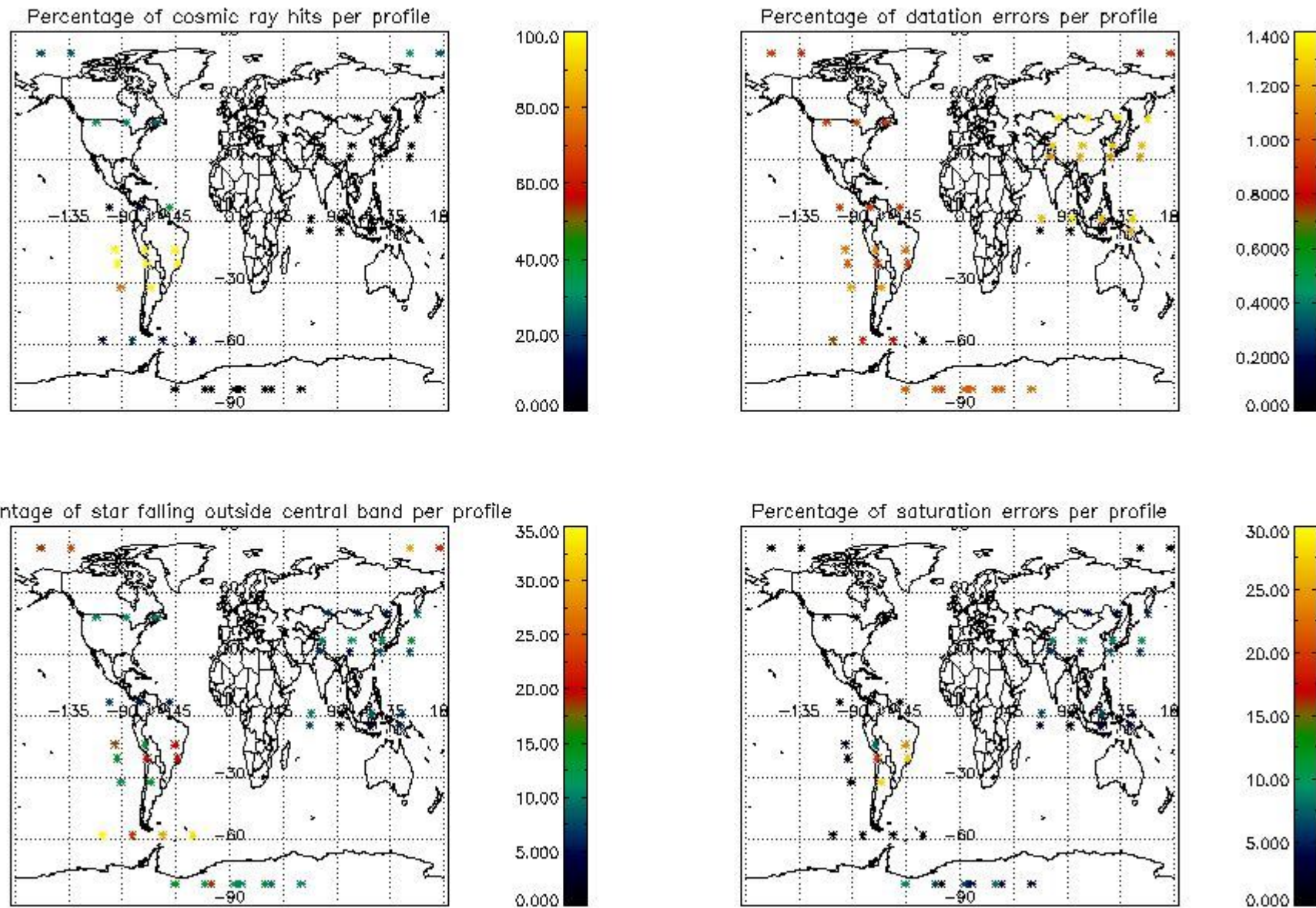
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	22.0000 %
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)



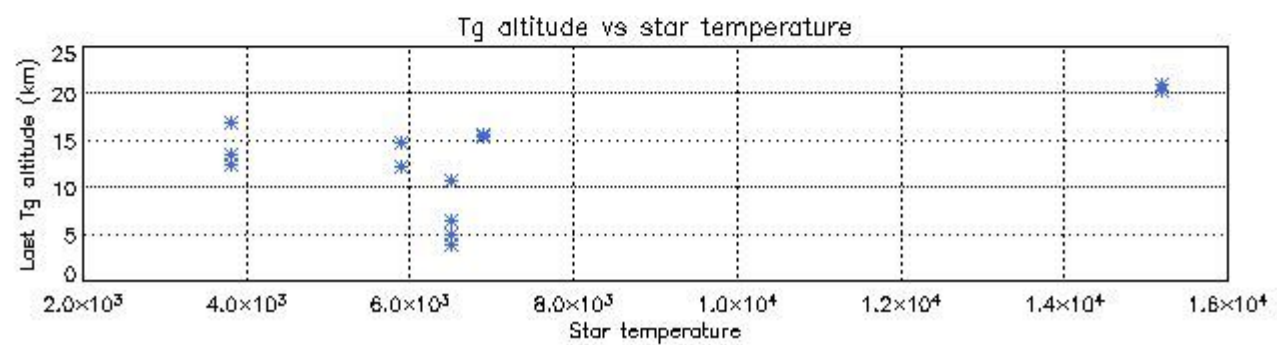
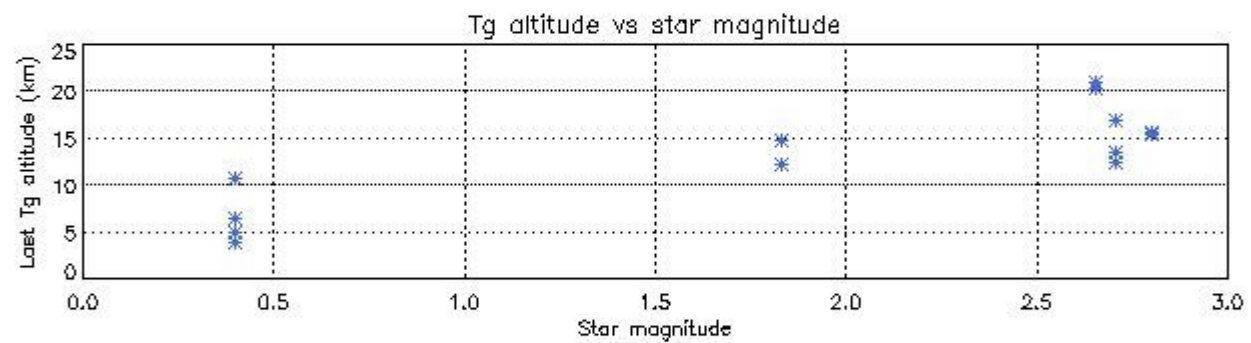
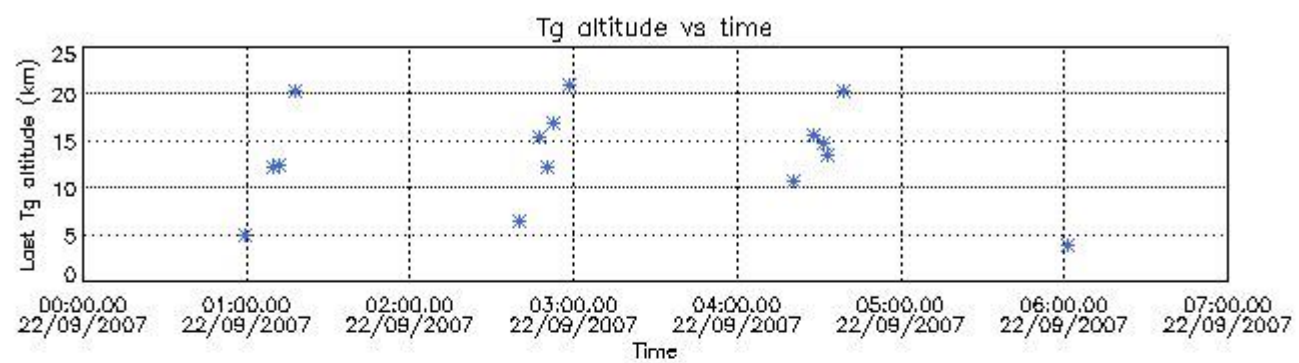
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.384	19.191	NaN
St. deviation:	5.3372	3.8141	NaN
Maximum:	20.993	28.245	NaN
Minimum:	3.9019	12.909	NaN
Number of data:	15.000	28.000	NaN

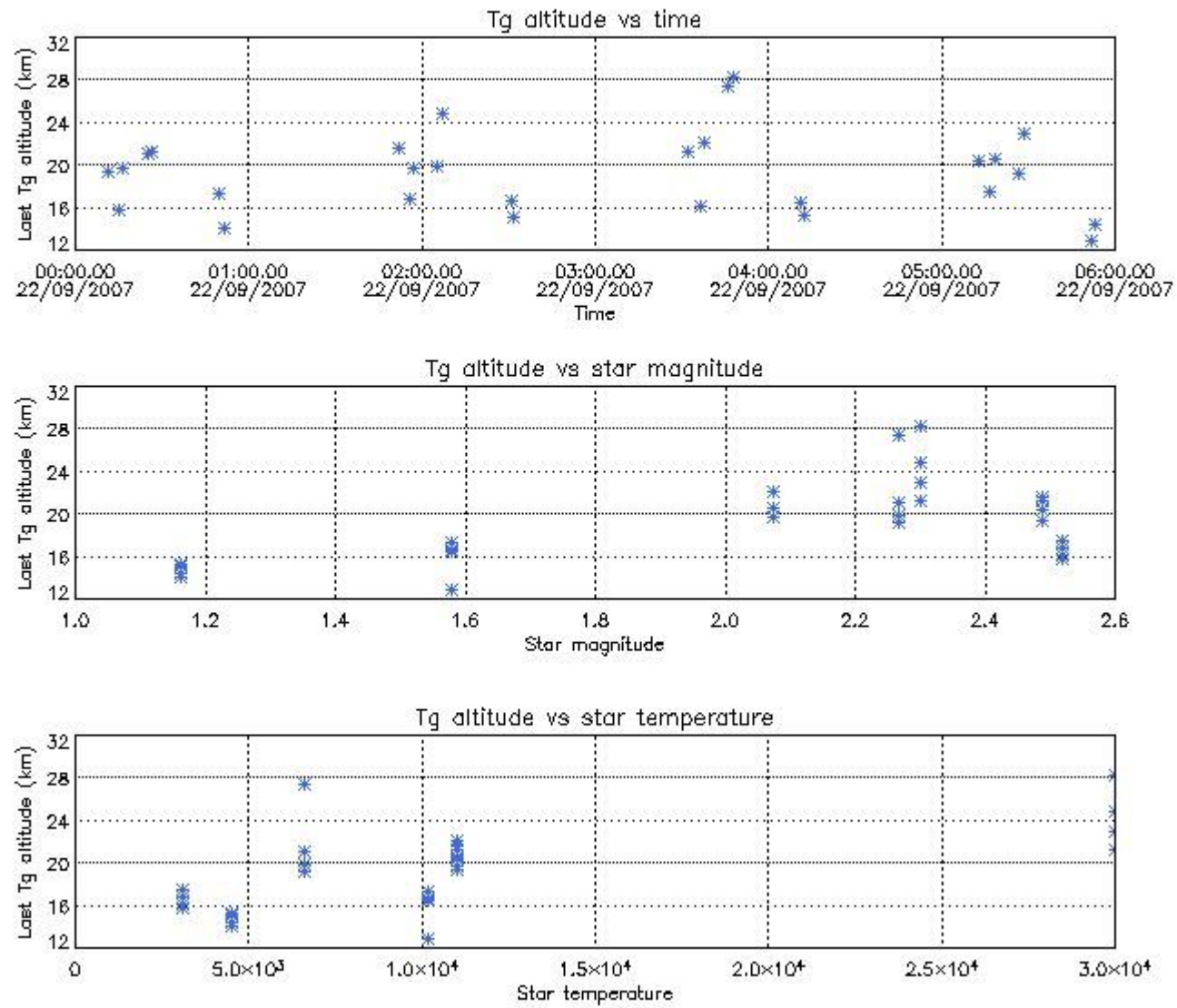
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

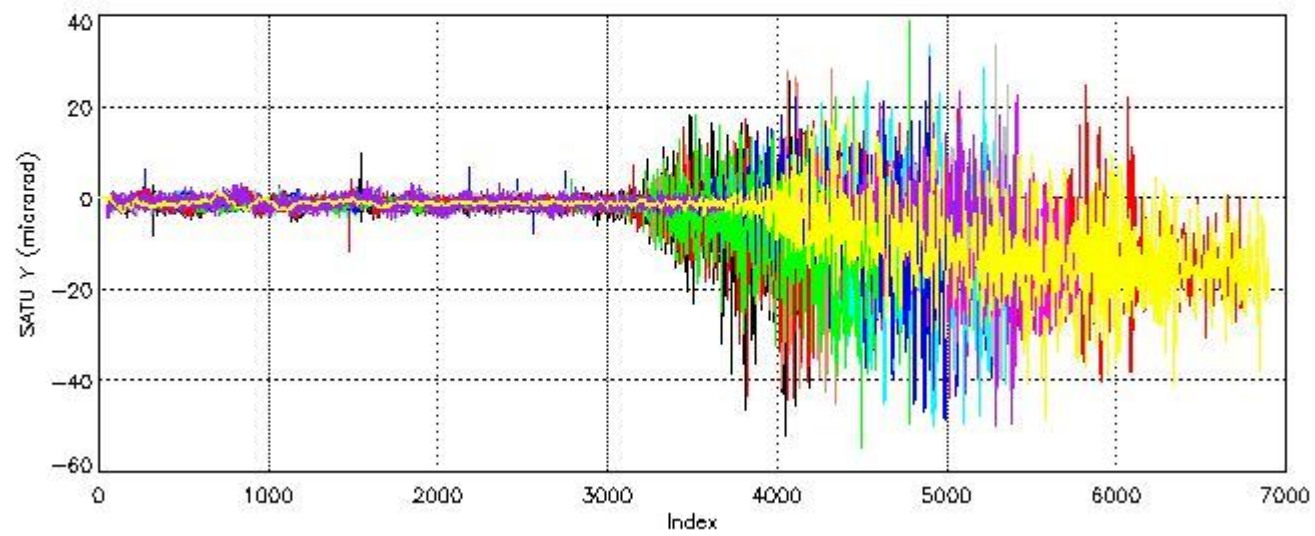
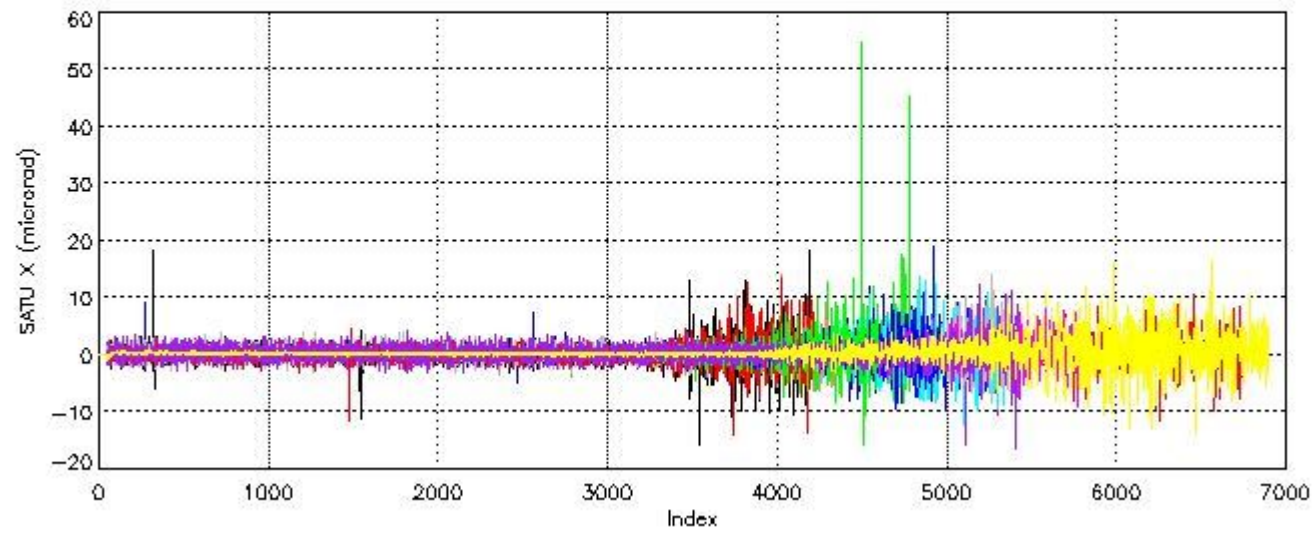


7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.26726	-1.1583	0.26012	-1.1857
St. deviation:	0.51251	0.90927	0.63263	1.0908
Maximum:	18.400	6.2000	4.0000	4.1000
Minimum:	-5.8000	-8.2000	-4.3000	-5.4000

Number of data:	16800.	16800.	26750.	26750.
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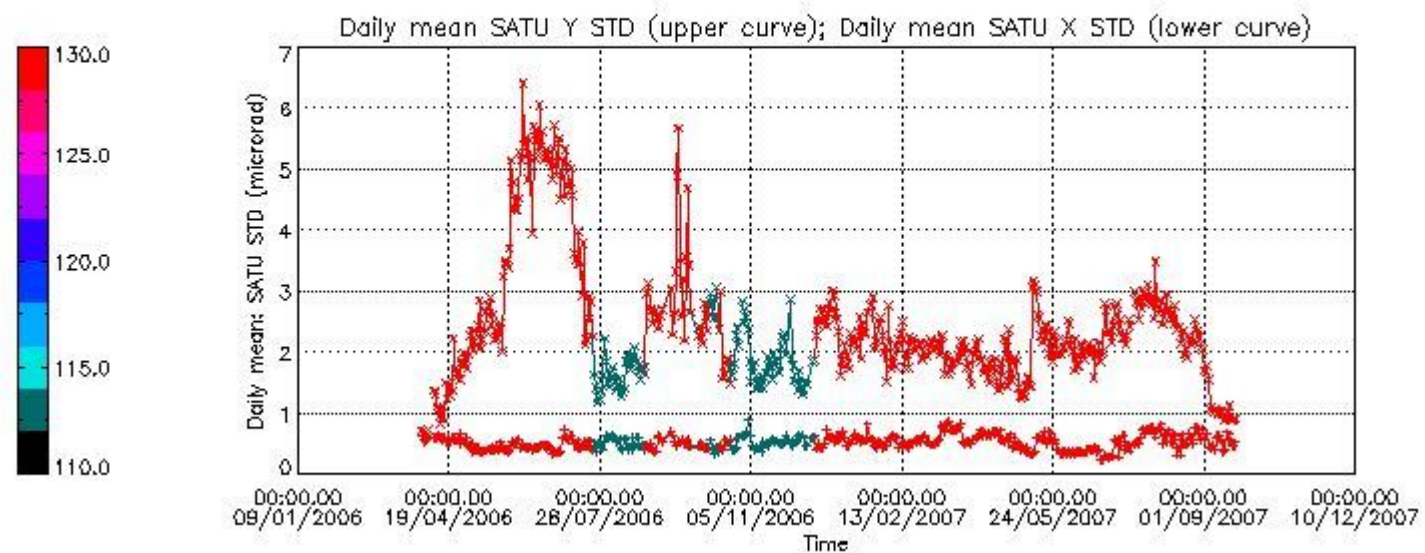
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

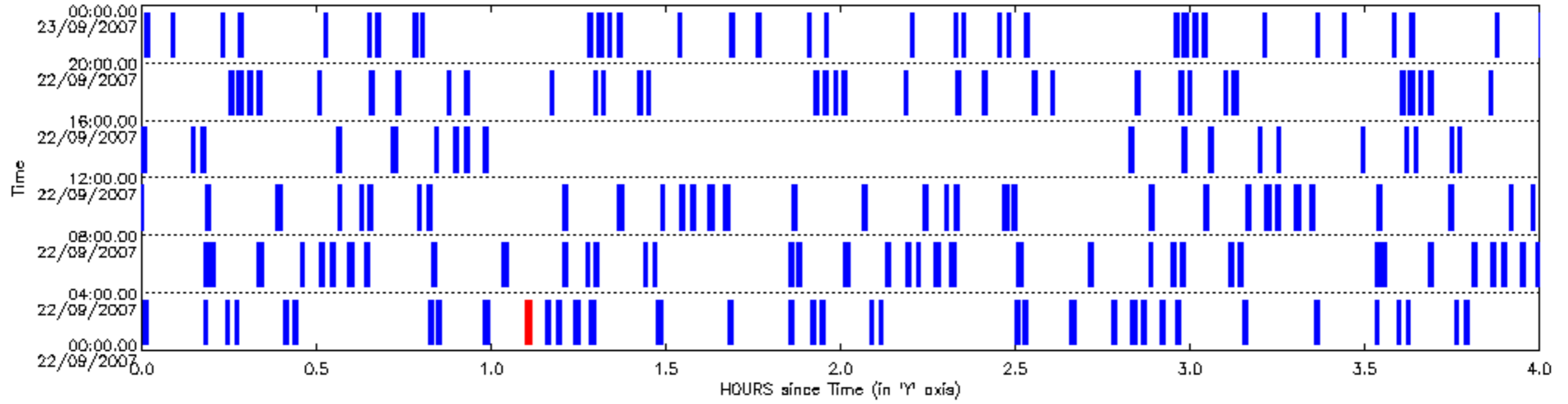
Lower curve: STD of SATU X axis

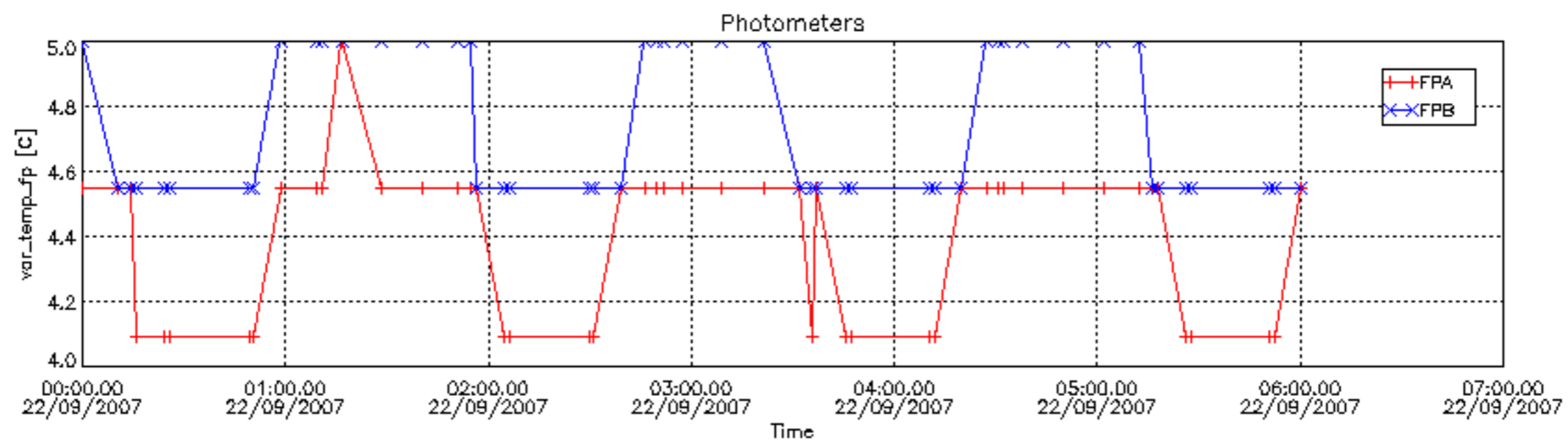
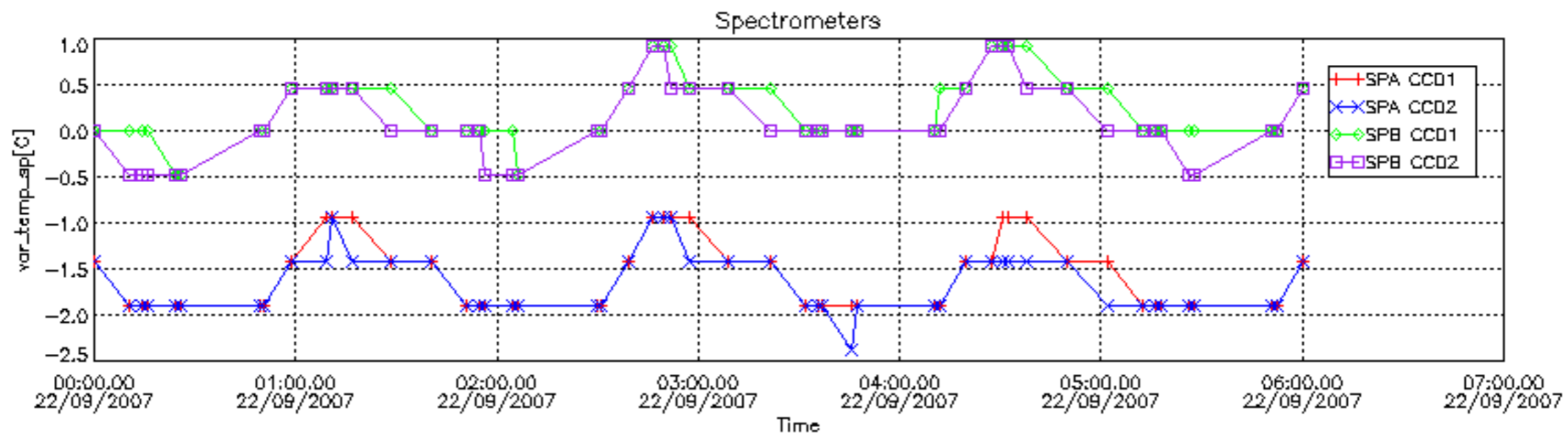


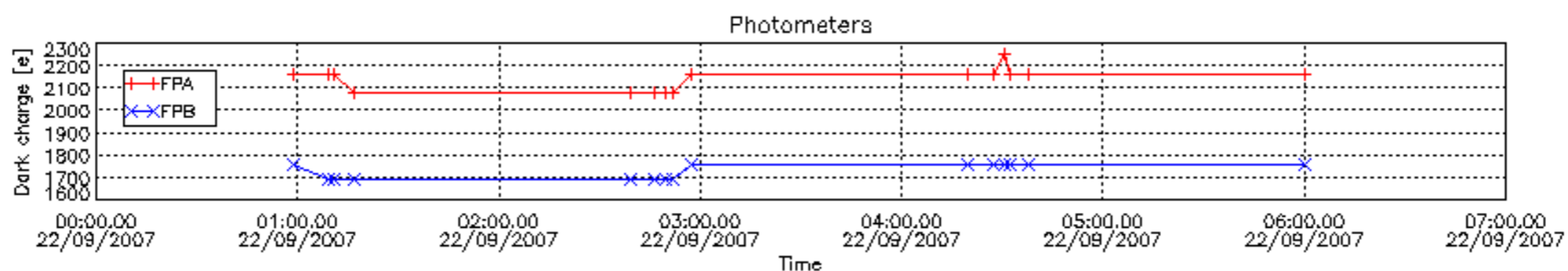
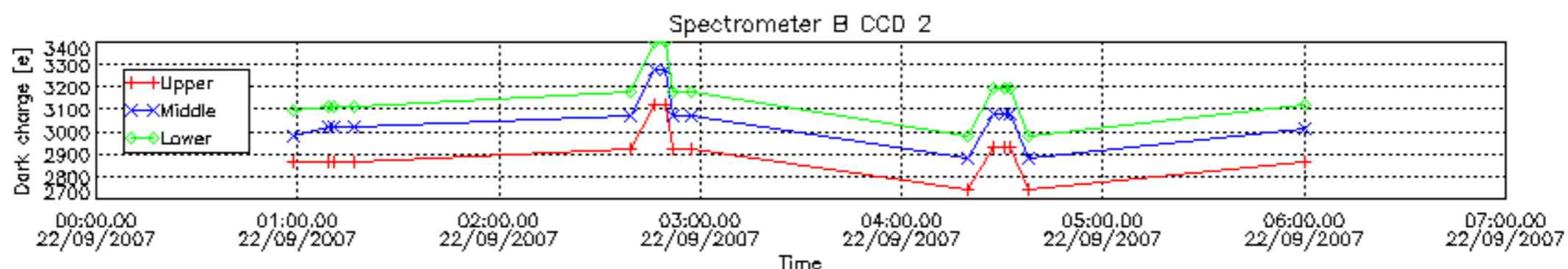
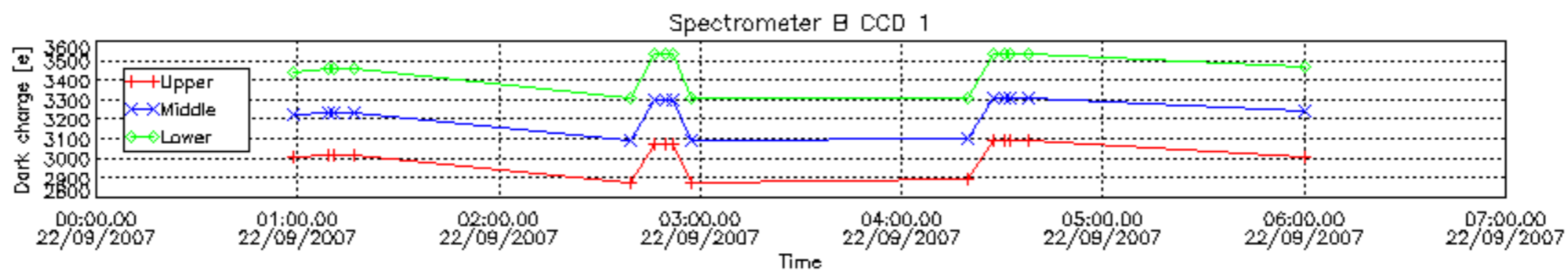
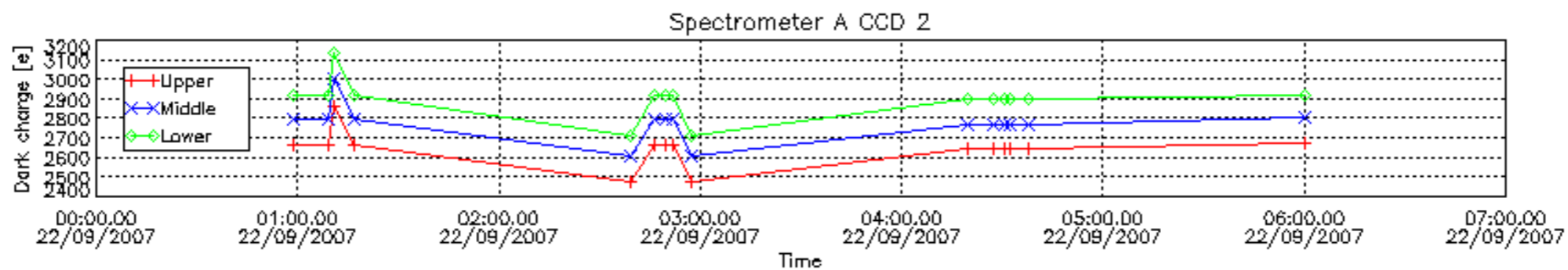
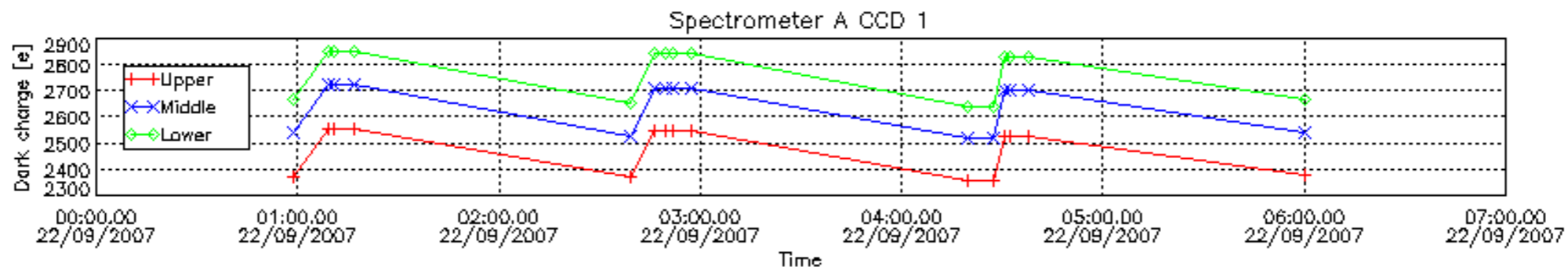
8. Auxiliary Data Files used for the production reported in section 2.4

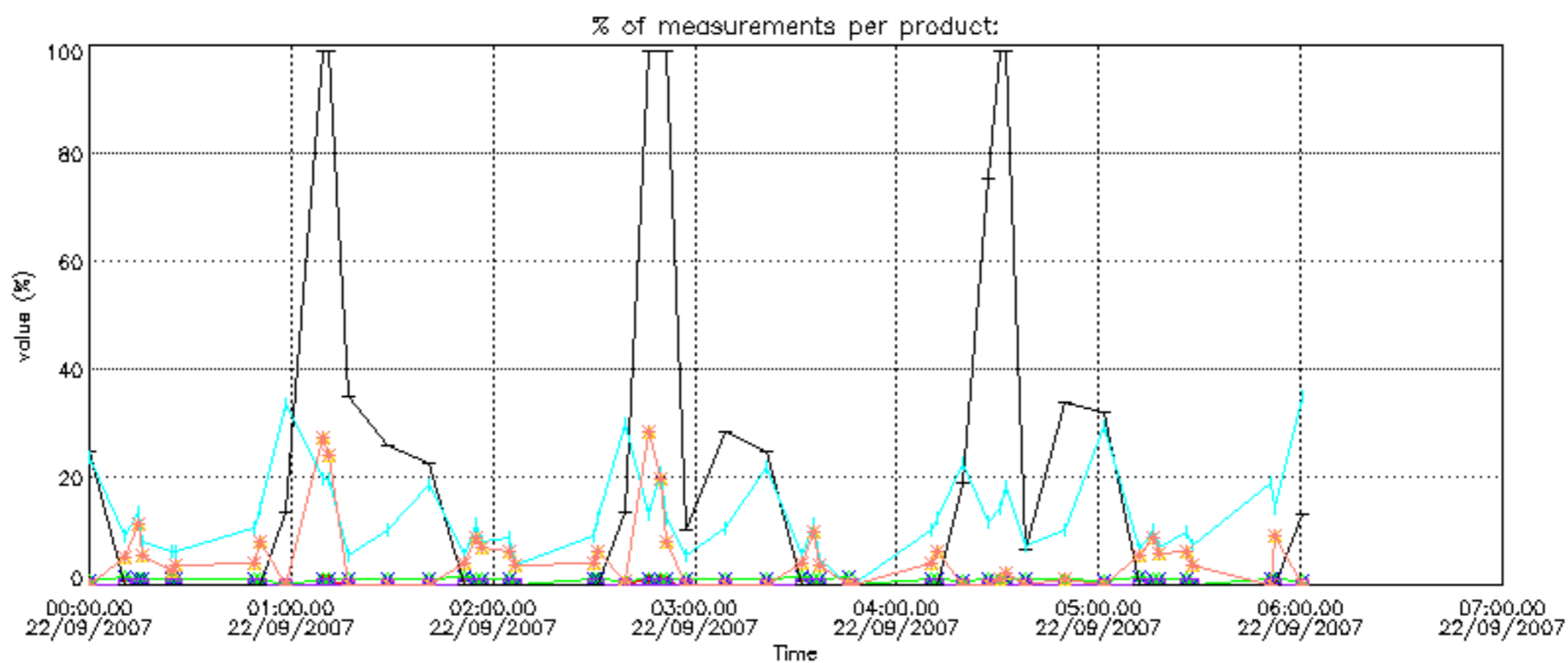
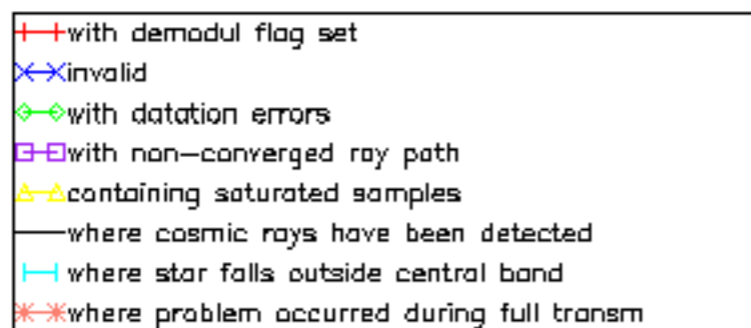
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	22-SEP-2007 00:00:02
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070905_122547_20070904_000000_20100101_000000	1	22-SEP-2007 00:00:02
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	22-SEP-2007 00:00:02
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	22-SEP-2007 00:00:02
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	22-SEP-2007 00:00:02
ECMWF_FILE	AUX_ECF_AXNECM20070921_060113_20070921_210000_20070922_090000	1	22-SEP-2007 00:00:02
ECMWF_FILE	AUX_ECF_AXNECM20070921_180117_20070922_030000_20070922_150000	34	22-SEP-2007 04:10:28
OPTIONAL_ECMWF_FILE	MISSING	1	22-SEP-2007 00:00:02
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070921_213949_000057382061_00458_29069_4223.N1	1	22-SEP-2007 00:00:02
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070921_232046_000057382061_00459_29070_4224.N1	10	22-SEP-2007 01:09:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070922_010143_000038252061_00460_29071_4225.N1	20	22-SEP-2007 02:29:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070922_021048_000057382061_00461_29072_4226.N1	34	22-SEP-2007 04:10:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070922_035145_000057382061_00462_29073_4227.N1	48	22-SEP-2007 05:51:05

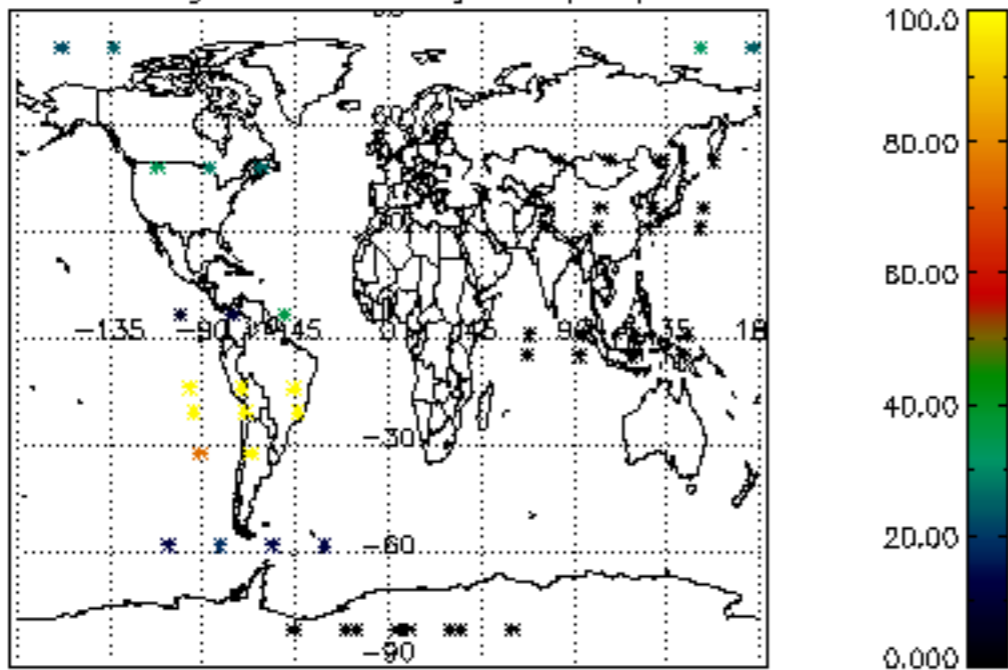




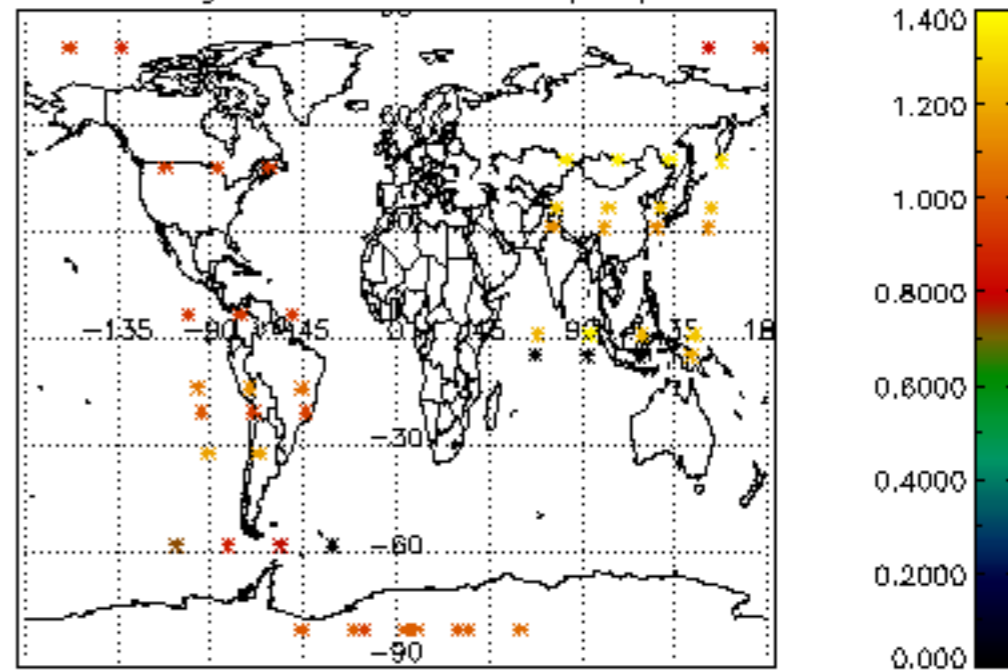




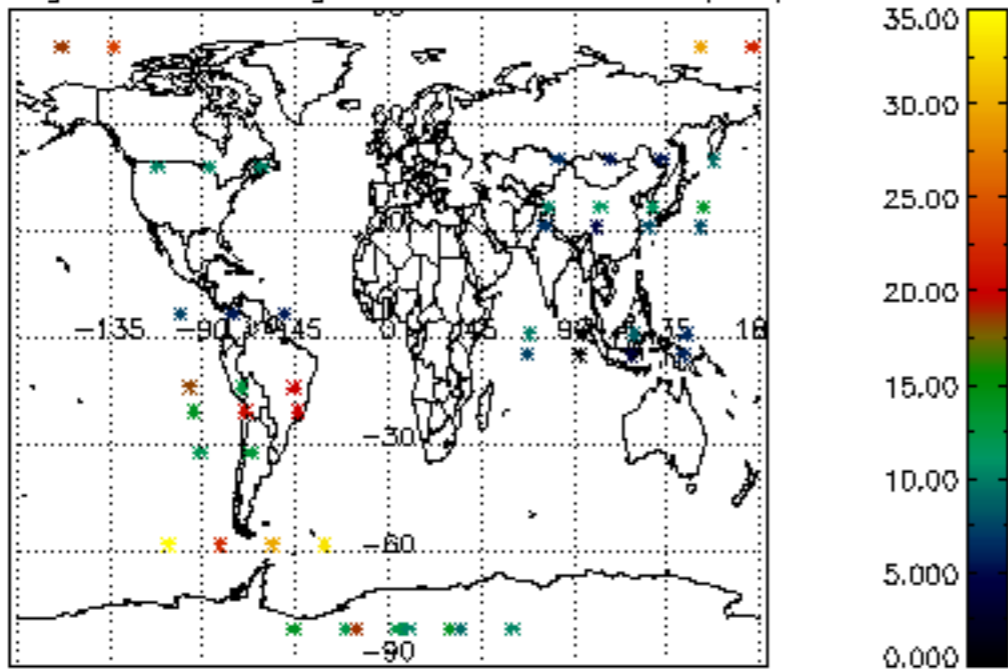
Percentage of cosmic ray hits per profile



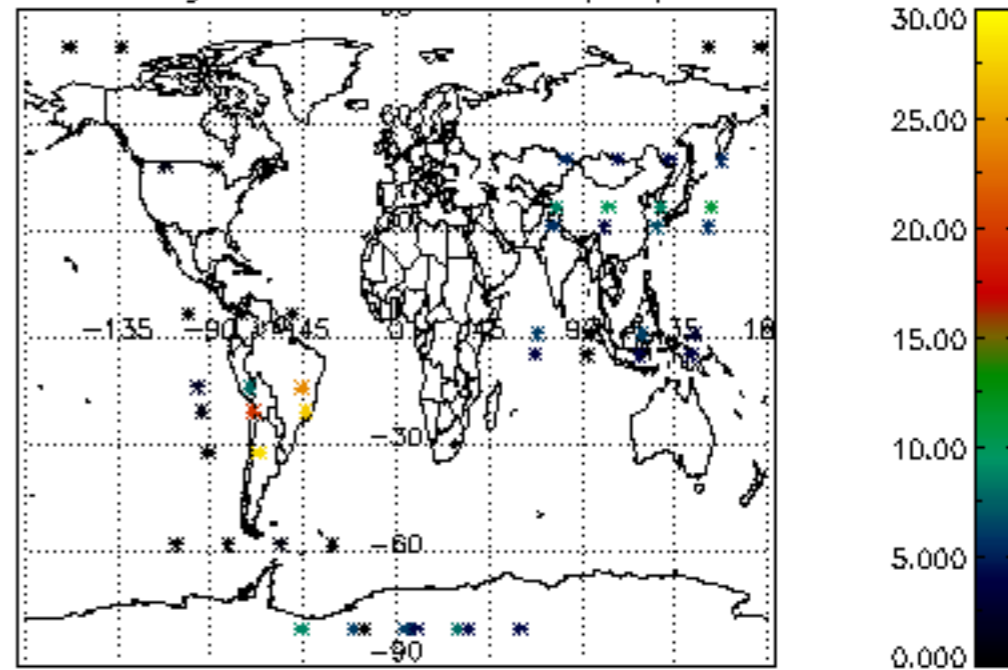
Percentage of datation errors per profile



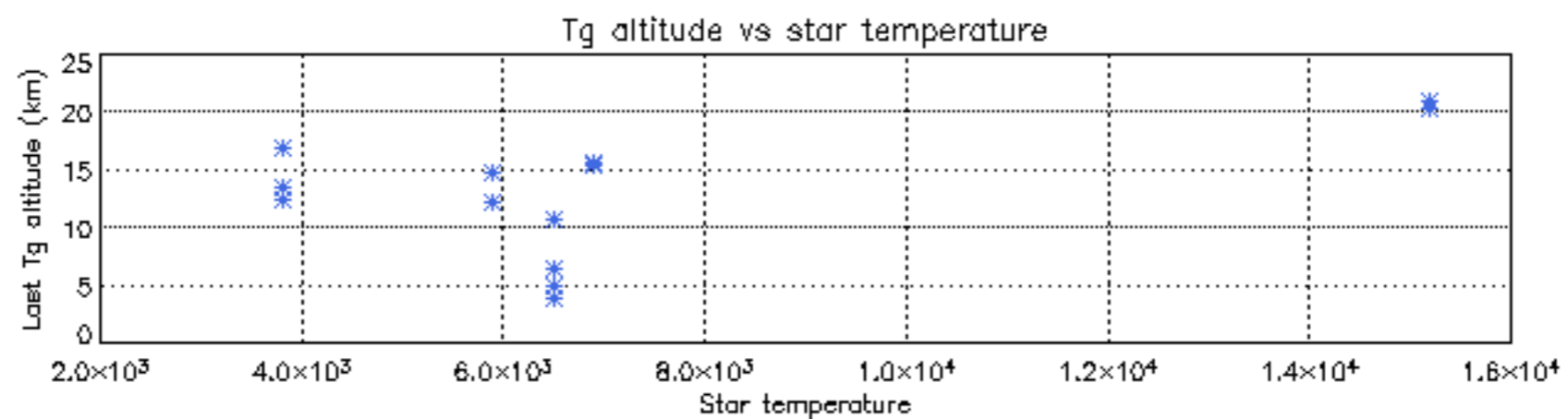
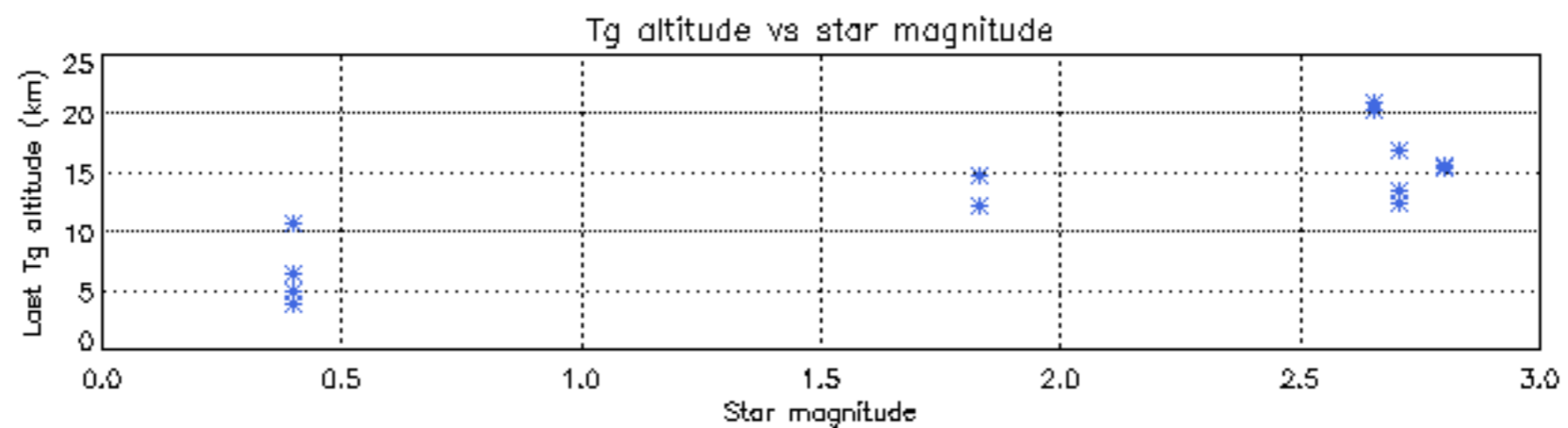
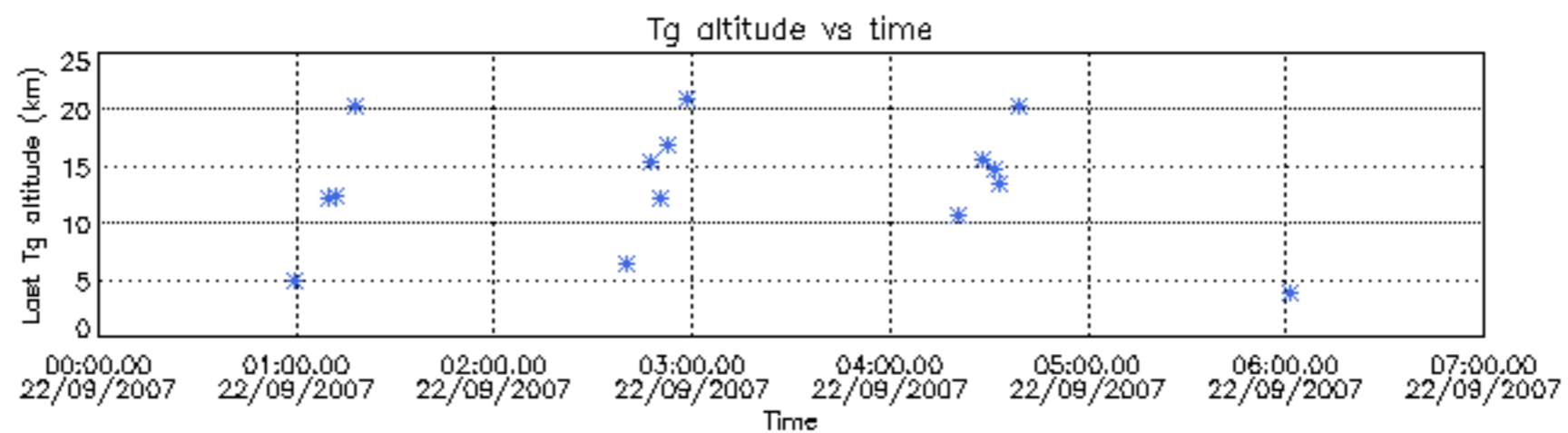
Percentage of star falling outside central band per profile



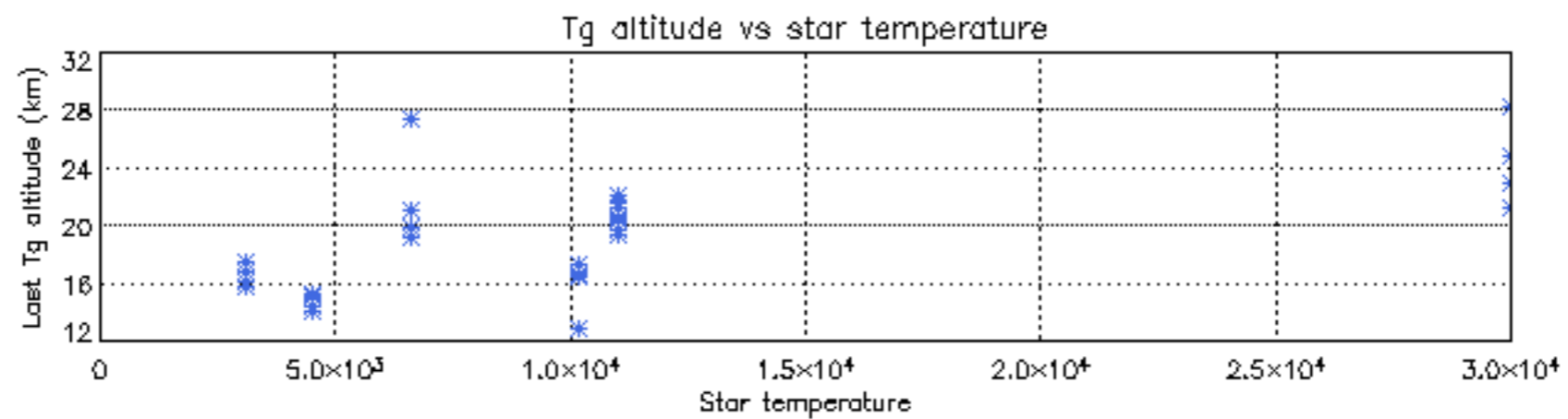
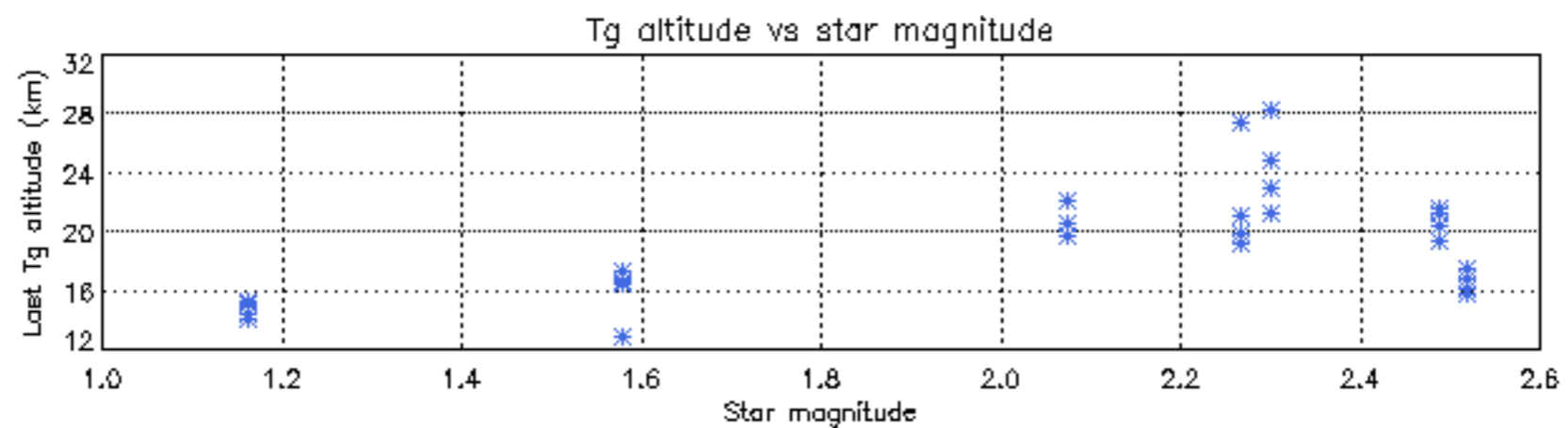
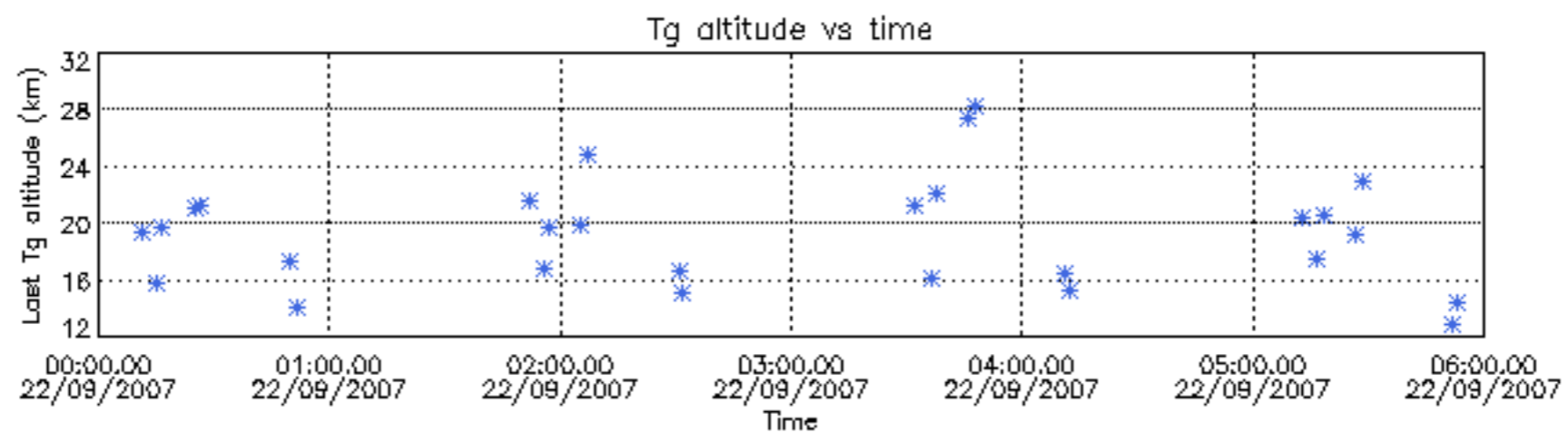
Percentage of saturation errors per profile

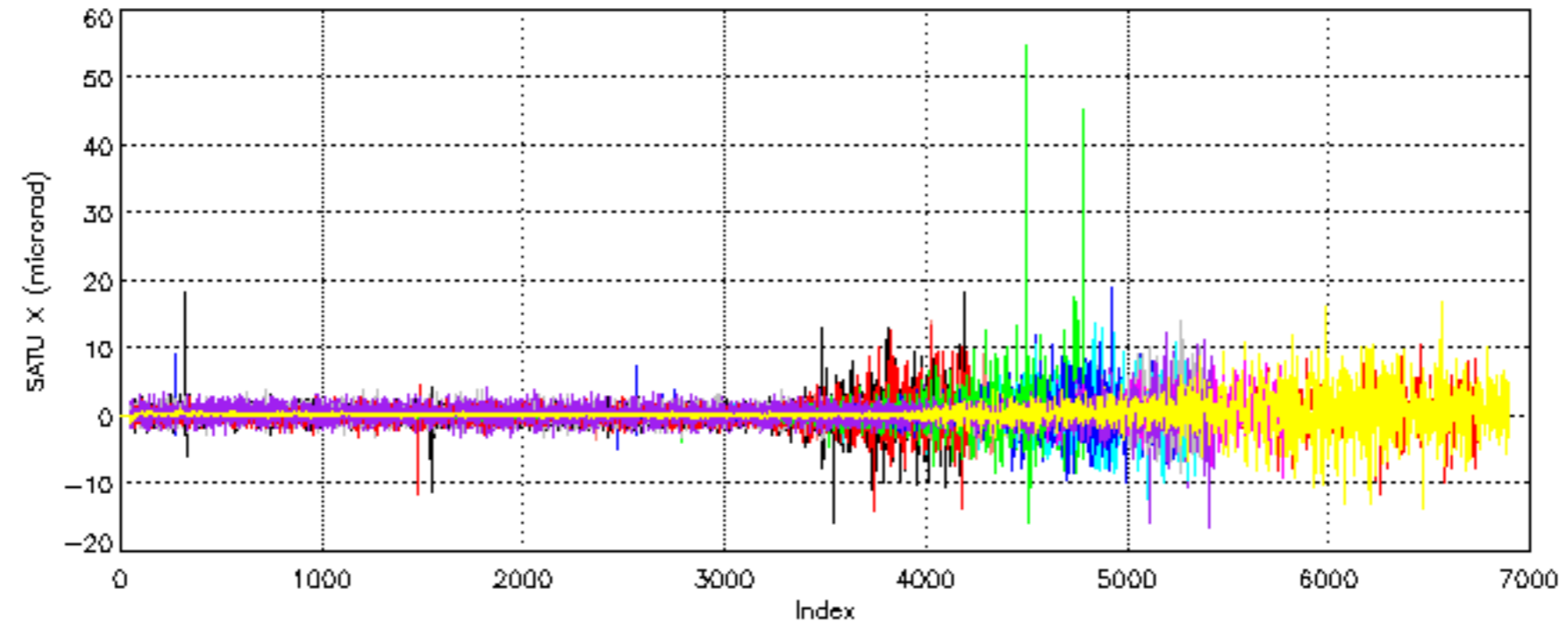


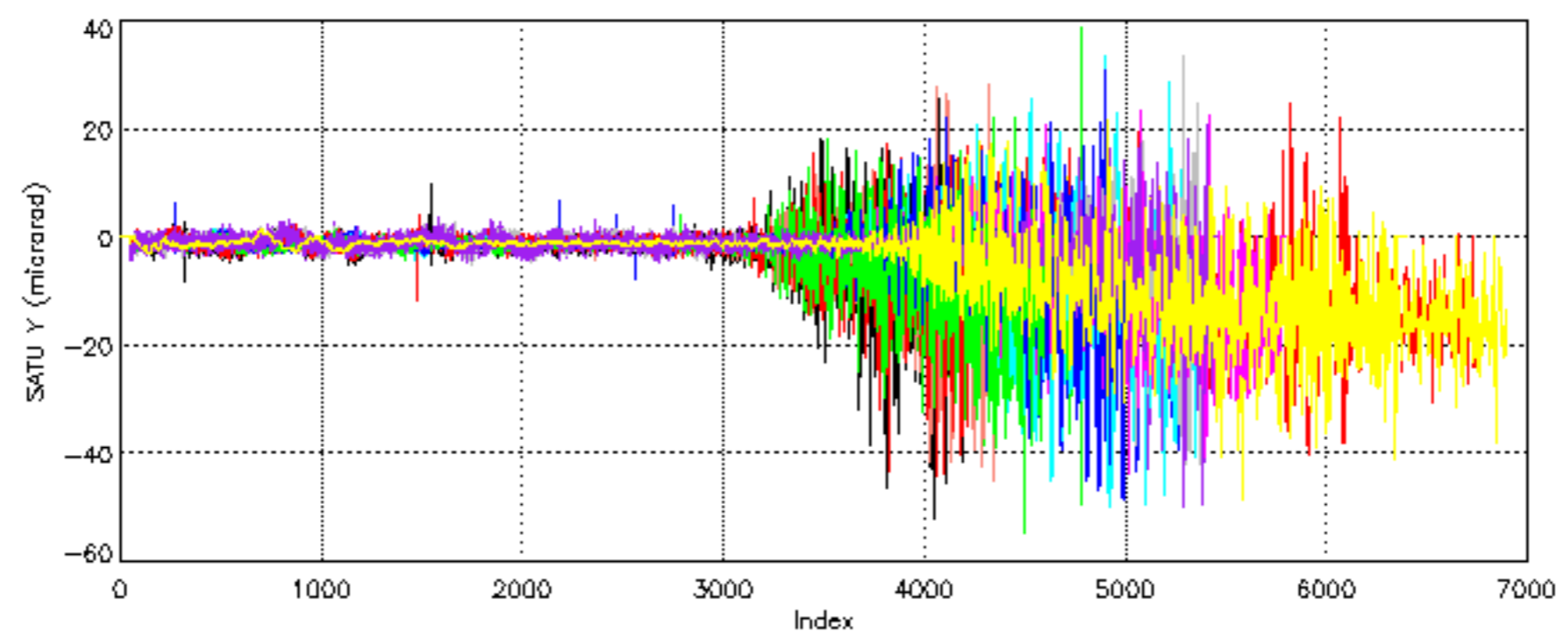
Tangent altitude at which the star is lost

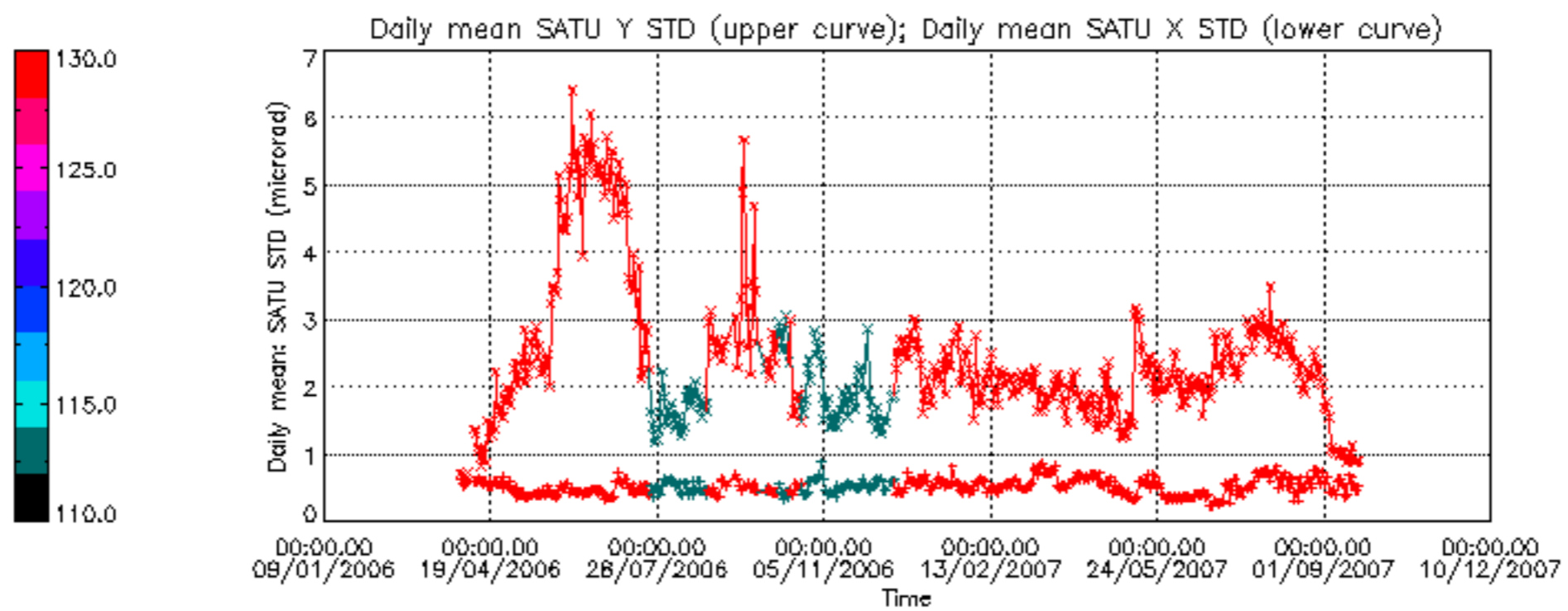


Tangent altitude at which the star is lost









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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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 2; -499.2; 01-SEP-2007 02:07:05; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;28771
 3; -304.1; 01-SEP-2007 02:10:20; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28771
 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
 14; 3434.8; 01-SEP-2007 03:12:39; Bright; 31.5; 49; 1Alp UMi ; 1.99; 6300;occ; 63; 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
 4; -1122.8; 01-SEP-2007 03:37:17; Dark ; 46.5; 8; 10Alp CMi ; 0.40; 6500;occ; 93; 0;28772
 5; -664.6; 01-SEP-2007 03:44:55; Dark ; 48.5; 1; 9Alp CMA ; -1.44; 11000;occ; 97; 0;28772
 6; -498.7; 01-SEP-2007 03:47:41; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;28772
 7; -398.5; 01-SEP-2007 03:49:22; Dark ; 41.5; 177; 1Zet CMA ; 3.02; 26000;occ; 83; 0;28772
 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
 14; 1807.3; 01-SEP-2007 04:26:07; Bright; 38.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 77; 0;28773
 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
 8; -302.8; 01-SEP-2007 05:31:33; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28773
 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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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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 2; -493.0; 01-SEP-2007 22:14:22; Dark ; 45.0; 23; 21Eps CMA ; 1.50; 26000;occ; 90; 0;28783
 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
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 8; 1620.4; 01-SEP-2007 22:49:36; Dark ; 53.0; 142; 49Del Cap ; 2.85; 8900;occ; 106; 0;28784
 9; 1808.2; 01-SEP-2007 22:52:43; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;28784
10; 1895.6; 01-SEP-2007 22:54:11; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28784
11; 2075.4; 01-SEP-2007 22:57:11; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;28784
12; 2975.2; 01-SEP-2007 23:12:10; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;28784
13; 3434.5; 01-SEP-2007 23:19:50; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28784
14; 4453.4; 01-SEP-2007 23:36:49; Bright; 49.5; 24; 66Alp Gem ; 1.58; 10200;occ; 99; 0;28784
15; 4613.8; 01-SEP-2007 23:39:29; Dark ; 50.5; 170; 27Eps Gem ; 3.00; 9700;occ; 101; 0;28784
16; 4916.9; 01-SEP-2007 23:44:32; Dark ; 53.5; 8; 10Alp CMi ; 0.40; 6500;occ; 107; 0;28784
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 2; -492.5; 01-SEP-2007 23:54:59; Dark ; 43.5; 23; 21Eps CMA ; 1.50; 26000;occ; 87; 0;28784
 3; -390.1; 01-SEP-2007 23:56:41; Dark ; 40.5; 177; 1Zet CMA ; 3.02; 26000;occ; 81; 0;28784
 4; -295.5; 01-SEP-2007 23:58:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28784
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 9; 1331.7; 02-SEP-2007 00:25:23; Dark ; 46.0; 18; 24Alp PsA ; 1.17; 9700;occ; 92; 0;28785
10; 1620.5; 02-SEP-2007 00:30:12; Dark ; 43.5; 142; 49Del Cap ; 2.85; 8900;occ; 87; 0;28785
11; 1808.1; 02-SEP-2007 00:33:19; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;28785
12; 1895.4; 02-SEP-2007 00:34:46; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28785
13; 2075.3; 02-SEP-2007 00:37:46; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;28785
14; 2975.1; 02-SEP-2007 00:52:46; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;28785
15; 3434.6; 02-SEP-2007 01:00:26; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28785
16; 4453.6; 02-SEP-2007 01:17:25; Bright; 36.0; 24; 66Alp Gem ; 1.58; 10200;occ; 72; 0;28785
17; 4613.9; 02-SEP-2007 01:20:05; Dark ; 48.5; 170; 27Eps Gem ; 3.00; 9700;occ; 97; 0;28785
18; 4917.2; 02-SEP-2007 01:25:08; Dark ; 43.5; 8; 10Alp CMi ; 0.40; 6500;occ; 87; 0;28785
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9; 4612.3; 01-SEP-2007 13:35:52; Dark ; 51.5; 170; 27Eps Gem ; 3.00; 9700;occ; 103; 0;28778
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 12; 5647.8; 03-SEP-2007 17:51:41; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;28809
 13; 5757.5; 03-SEP-2007 17:53:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28809
 14; 5842.6; 03-SEP-2007 17:54:56; Dark ; 45.5; 108; Alp Col ; 2.65; 15200;occ; 91; 0;28809
 15; 5959.6; 03-SEP-2007 17:56:53; Dark ; 53.5; 2; Alp Car ; -0.74; 7000;occ; 107; 0;28809
 16; 6581.5; 03-SEP-2007 18:07:15; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;28809
 17; 6660.1; 03-SEP-2007 18:08:33; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;28809
 18; 7096.9; 03-SEP-2007 18:15:50; Dark ; 36.5; 63; Bet Gru ; 2.15; 2800;occ; 73; 0;28809

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 3; 1624.0; 03-SEP-2007 18:25:13; Dark ; 50.5; 142; 49Del Cap ; 2.85; 8900;occ; 101; 0;28810
 4; 1810.8; 03-SEP-2007 18:28:20; Bright; 37.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 74; 0;28810
 5; 1895.4; 03-SEP-2007 18:29:45; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;28810
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 11; 5395.6; 03-SEP-2007 19:28:05; Dark ; 57.5; 1; 9Alp CMA ; -1.44; 11000;occ; 115; 0;28810
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 13; 5648.2; 03-SEP-2007 19:32:17; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;28810
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 16; 5960.0; 03-SEP-2007 19:37:29; Dark ; 41.0; 2; Alp Car ; -0.74; 7000;occ; 82; 0;28810
 17; 6581.7; 03-SEP-2007 19:47:51; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;28810
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14; 2074.5; 04-SEP-2007 01:15:07; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;28814
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17; 4457.6; 04-SEP-2007 01:54:50; Bright; 38.0; 24; 66Alp Gem ; 1.58; 10200;occ; 76; 0;28814
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 2; 989.3; 04-SEP-2007 04:18:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28816
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 2; -1841.4; 04-SEP-2007 05:11:39; Bright; 83.0; 149; 45Eps Per ; 2.89; 30000;occ; 166; 0;28816
 3; -1404.7; 04-SEP-2007 05:18:56; Dark ; 254.5; 150; 44Zet Per ; 2.89; 28000;occ; 509; 0;28816
 4; -679.3; 04-SEP-2007 05:31:01; Dark ; 148.5; 13; 87Alp Tau ; 0.87; 3800;occ; 297; 0;28816
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 7; 4187.0; 04-SEP-2007 23:38:07; Bright; 86.0; 149; 45Eps Per ; 2.89; 30000;occ; 172; 0;28827
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 4; 3139.9; 05-SEP-2007 01:01:16; Bright; 75.0; 53; 43Bet And ; 2.05; 3300;occ; 150; 0;28828
 5; 3512.9; 05-SEP-2007 01:07:29; Bright; 86.5; 73; 57Gam1And ; 2.26; 13100;occ; 173; 0;28828
 6; 3957.3; 05-SEP-2007 01:14:53; Bright; 104.5; 79; 26Bet Per ; 2.31; 13100;occ; 209; 0;28828
 7; 4186.4; 05-SEP-2007 01:18:42; Bright; 85.5; 149; 45Eps Per ; 2.89; 30000;occ; 171; 0;28828
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 4; -1842.6; 04-SEP-2007 08:32:50; Bright; 85.0; 149; 45Eps Per ; 2.89; 30000;occ; 170; 0;28818
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4;-1400.8; 04-SEP-2007 13:41:59; Dark ; 255.0; 150; 44Zet Per ; 2.89; 28000;occ; 510; 0;28821
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