

GOMOS Daily Report 21-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 12:54:35
Data source version	GOMOS/5.00
Start time of products	21-09-2007 (21SEP2007 00:00:00)
Stop time of products	22-09-2007 (22SEP2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	35
Nb of prods with errors	0

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

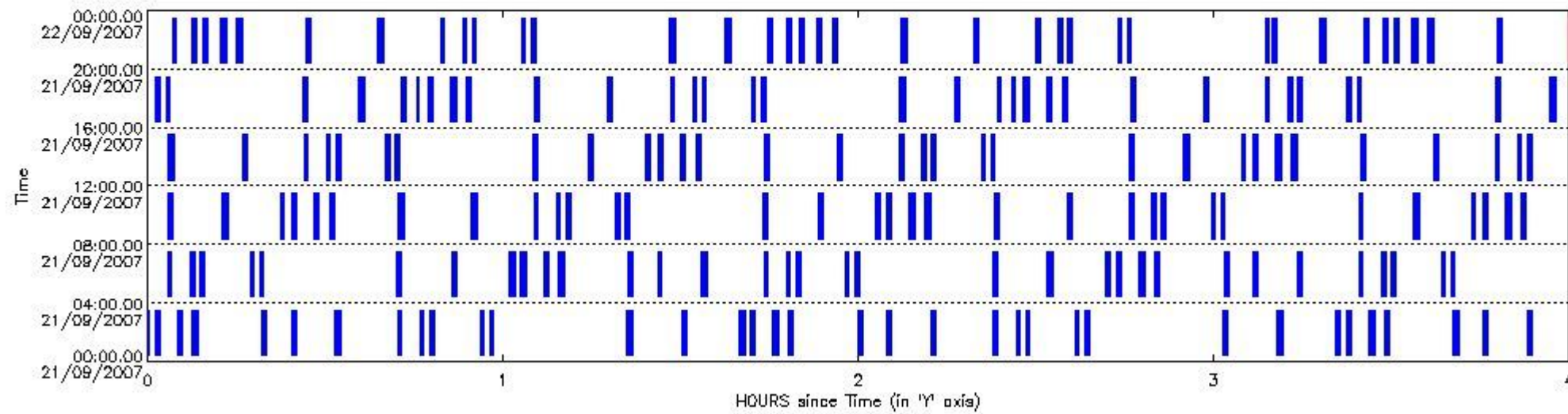
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

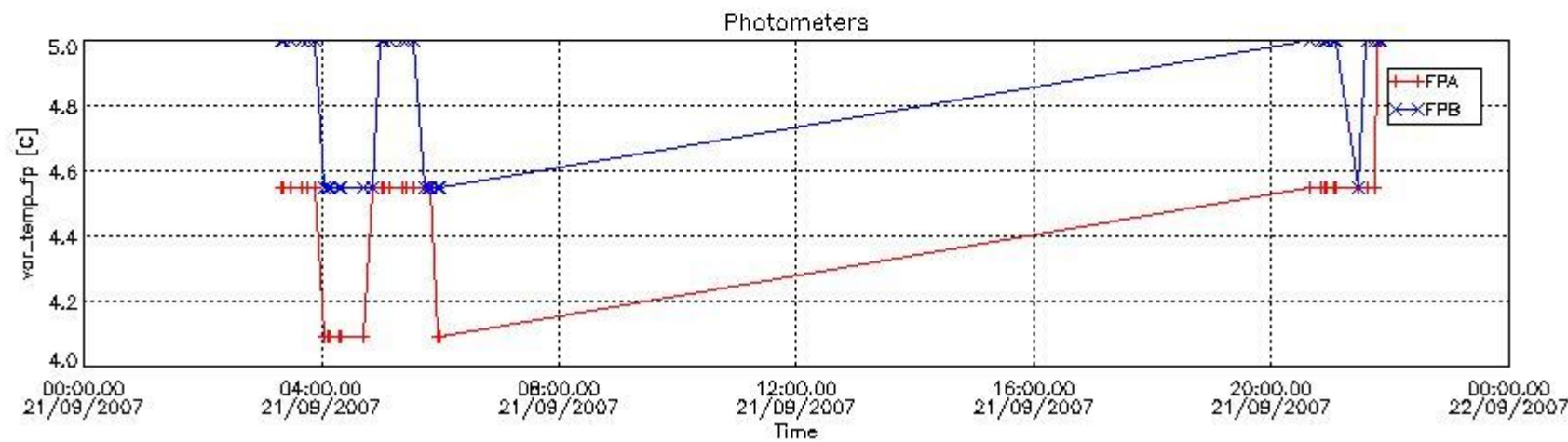
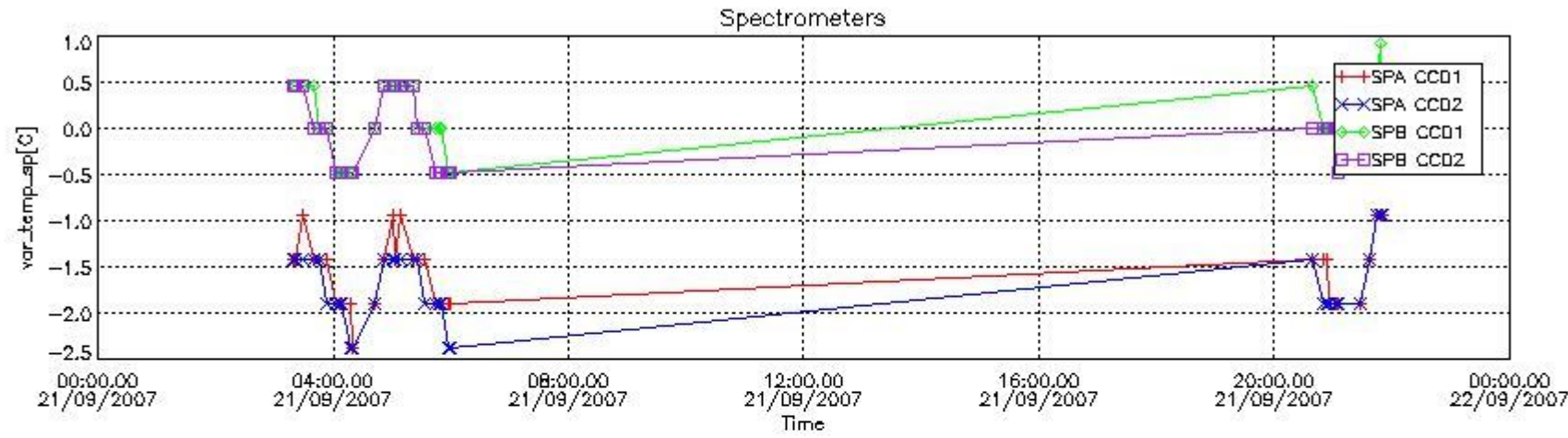
UTC start time	Star name	Star ID	Orbit
21-SEP-2007 23:59:59	16BetCet	52	29071

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_1PNPDE20070921_032024_000000532061_00447_29058_5935.N1	21-SEP-2007 03:20:24	Dark	53.000	1	9Alp CMa	-1.4400	11000.	106	29058	No
2	GOM_TRA_1PNPDE20070921_032219_000000482061_00447_29058_5864.N1	21-SEP-2007 03:22:19	Dark	47.500	23	21Eps CMa	1.5020	26000.	95	29058	No
3	GOM_TRA_1PNPDE20070921_032845_000000552061_00448_29059_5937.N1	21-SEP-2007 03:28:45	Dark	55.000	108	Alp Col	2.6520	15200.	110	29059	No
4	GOM_TRA_1PNPDE20070921_034025_000000562061_00448_29059_5866.N1	21-SEP-2007 03:40:25	Straylight	55.500	157	The1Eri	2.9060	9300.0	111	29059	No
5	GOM_TRA_1PNPDE20070921_034526_000000422061_00448_29059_5867.N1	21-SEP-2007 03:45:26	Straylight	41.500	84	Alp Phe	2.3970	4500.0	83	29059	No
6	GOM_TRA_1PNPDE20070921_035250_000000582061_00448_29059_5868.N1	21-SEP-2007 03:52:50	Twilight_and_stray	57.500	52	16Bet Cet	2.0370	4500.0	115	29059	No
7	GOM_TRA_1PNPDE20070921_040323_000000382061_00448_29059_5941.N1	21-SEP-2007 04:03:23	Bright	38.000	90	54Alp Peg	2.4870	11000.	76	29059	No
8	GOM_TRA_1PNPDE20070921_040710_000000412061_00448_29059_5870.N1	21-SEP-2007 04:07:10	Bright	40.500	93	53Bet Peg	2.5200	3100.0	81	29059	No
9	GOM_TRA_1PNPDE20070921_040848_000000442061_00448_29059_5871.N1	21-SEP-2007 04:08:48	Bright	44.000	58	21Alp And	2.0730	11000.	88	29059	No
10	GOM_TRA_1PNPDE20070921_041712_000000402061_00448_29059_5872.N1	21-SEP-2007 04:17:12	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	29059	No

11	GOM_TRA_1PNPDE20070921_041851_000000402061_00448_29059_5873.N1	21-SEP-2007 04:18:51	Bright	39.500	76	27Gam Cas	2.3000	30000.	79	29059	No
12	GOM_TRA_1PNPDE20070921_044204_000000492061_00448_29059_5994.N1	21-SEP-2007 04:42:04	Bright	49.000	24	66Alp Gem	1.5800	10200.	98	29059	No
13	GOM_TRA_1PNPDE20070921_045115_000000572061_00448_29059_5995.N1	21-SEP-2007 04:51:15	Dark	56.500	8	10Alp CMi	0.40000	6500.0	113	29059	No
14	GOM_TRA_1PNPDE20070921_050102_000000532061_00448_29059_5996.N1	21-SEP-2007 05:01:02	Dark	53.000	1	9Alp CMa	-1.4400	11000.	106	29059	No
15	GOM_TRA_1PNPDE20070921_050256_000000522061_00448_29059_5997.N1	21-SEP-2007 05:02:56	Dark	52.000	23	21Eps CMa	1.5020	26000.	104	29059	No
16	GOM_TRA_1PNPDE20070921_050922_000000542061_00449_29060_5998.N1	21-SEP-2007 05:09:22	Dark	54.000	108	Alp Col	2.6520	15200.	108	29060	No
17	GOM_TRA_1PNPDE20070921_052102_000000532061_00449_29060_5999.N1	21-SEP-2007 05:21:02	Straylight	53.000	157	The1Eri	2.9060	9300.0	106	29060	No
18	GOM_TRA_1PNPDE20070921_052604_000000412061_00449_29060_6000.N1	21-SEP-2007 05:26:04	Straylight	40.500	84	Alp Phe	2.3970	4500.0	81	29060	No
19	GOM_TRA_1PNPDE20070921_053326_000000562061_00449_29060_6001.N1	21-SEP-2007 05:33:26	Twilight_and_stray	55.500	52	16Bet Cet	2.0370	4500.0	111	29060	No
20	GOM_TRA_1PNPDE20070921_054359_000000372061_00449_29060_6002.N1	21-SEP-2007 05:43:59	Bright	37.000	90	54Alp Peg	2.4870	11000.	74	29060	No
21	GOM_TRA_1PNPDE20070921_054746_000000402061_00449_29060_6003.N1	21-SEP-2007 05:47:46	Bright	40.000	93	53Bet Peg	2.5200	3100.0	80	29060	No
22	GOM_TRA_1PNPDE20070921_054923_000000452061_00449_29060_6004.N1	21-SEP-2007 05:49:23	Bright	45.000	58	21Alp And	2.0730	11000.	90	29060	No
23	GOM_TRA_1PNPDE20070921_055747_000000392061_00449_29060_6005.N1	21-SEP-2007 05:57:47	Bright	38.500	74	11Bet Cas	2.2680	6600.0	77	29060	No
24	GOM_TRA_1PNPDE20070921_055927_000000412061_00449_29060_6006.N1	21-SEP-2007 05:59:27	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	29060	No
25	GOM_TRA_1PNPDE20070921_203850_000000542061_00458_29069_6755.N1	21-SEP-2007 20:38:50	Twilight_and_stray	54.000	52	16Bet Cet	2.0370	4500.0	108	29069	No
26	GOM_TRA_1PNPDE20070921_204921_000000392061_00458_29069_6756.N1	21-SEP-2007 20:49:21	Bright	38.500	90	54Alp Peg	2.4870	11000.	77	29069	No
27	GOM_TRA_1PNPDE20070921_205308_000000372061_00458_29069_6757.N1	21-SEP-2007 20:53:08	Bright	37.000	93	53Bet Peg	2.5200	3100.0	74	29069	No
28	GOM_TRA_1PNPDE20070921_205442_000000452061_00458_29069_6758.N1	21-SEP-2007 20:54:42	Bright	44.500	58	21Alp And	2.0730	11000.	89	29069	No
29	GOM_TRA_1PNPDE20070921_210307_000000402061_00458_29069_6759.N1	21-SEP-2007 21:03:07	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	29069	No
30	GOM_TRA_1PNPDE20070921_210446_000000412061_00458_29069_6760.N1	21-SEP-2007 21:04:46	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	29069	No
31	GOM_TRA_1PNPDE20070921_212804_000000672061_00458_29069_6761.N1	21-SEP-2007 21:28:04	Bright	67.000	24	66Alp Gem	1.5800	10200.	134	29069	No
32	GOM_TRA_1PNPDE20070921_213721_000000672061_00458_29069_6762.N1	21-SEP-2007 21:37:21	Dark	66.500	8	10Alp CMi	0.40000	6500.0	133	29069	No
33	GOM_TRA_1PNPDE20070921_214442_000000452061_00458_29069_6893.N1	21-SEP-2007 21:44:42	Dark	44.500	132	15Rho Pup	2.8030	6900.0	89	29069	No
34	GOM_TRA_1PNPDE20070921_214757_000000492061_00458_29069_6894.N1	21-SEP-2007 21:47:57	Dark	49.000	37	25Del CMa	1.8300	5900.0	98	29069	No
35	GOM_TRA_1PNPDE20070921_214952_000000552061_00458_29069_6895.N1	21-SEP-2007 21:49:52	Dark	55.000	117	Pi Pup	2.7060	3800.0	110	29069	No

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



4. Overview of dark signal processing per product

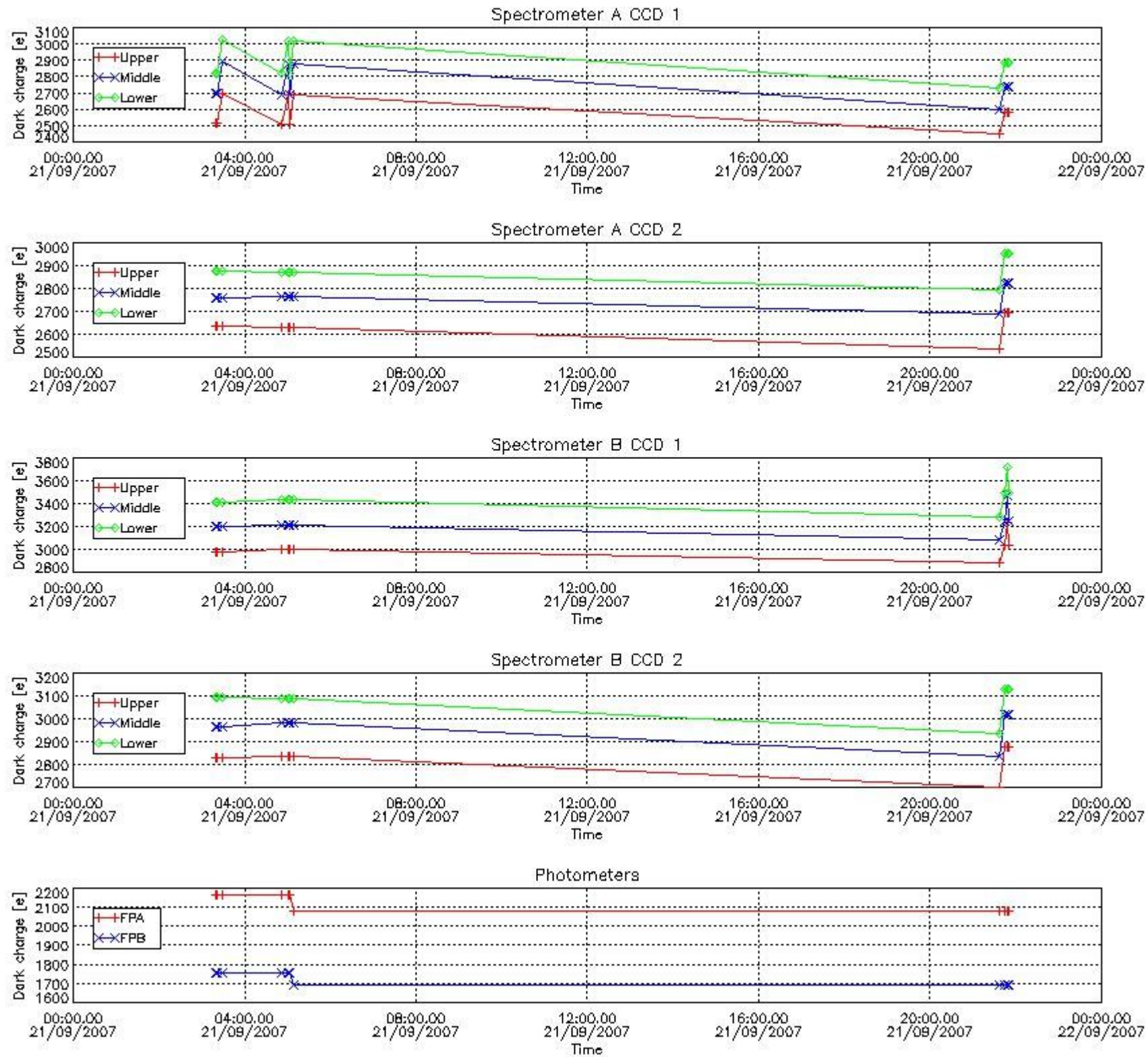
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20070921_203850_000000542061_00458_29069_6755.N1	DC map used
GOM_TRA_1PNPDE20070921_204921_000000392061_00458_29069_6756.N1	DC map used
GOM_TRA_1PNPDE20070921_205308_000000372061_00458_29069_6757.N1	DC map used
GOM_TRA_1PNPDE20070921_205442_000000452061_00458_29069_6758.N1	DC map used
GOM_TRA_1PNPDE20070921_210307_000000402061_00458_29069_6759.N1	DC map used
GOM_TRA_1PNPDE20070921_210446_000000412061_00458_29069_6760.N1	DC map used
GOM_TRA_1PNPDE20070921_212804_000000672061_00458_29069_6761.N1	DC map used
GOM_TRA_1PNPDE20070921_213721_000000672061_00458_29069_6762.N1	DC map used

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



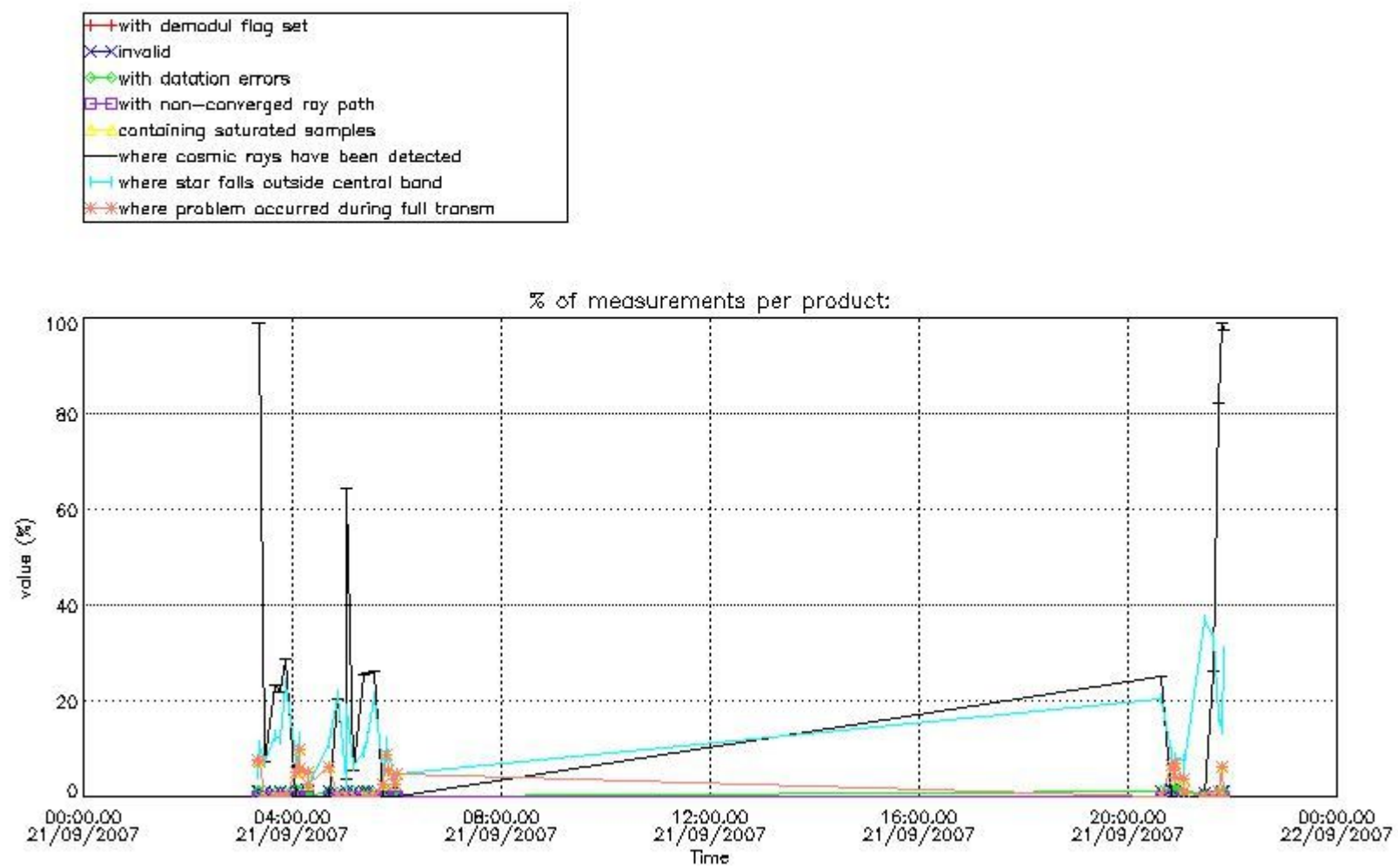
5. Demodulation flag and quality information monitoring

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.

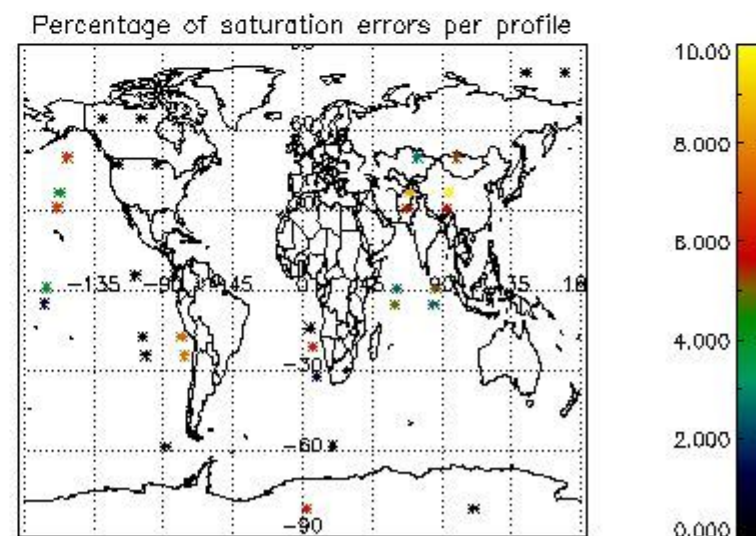
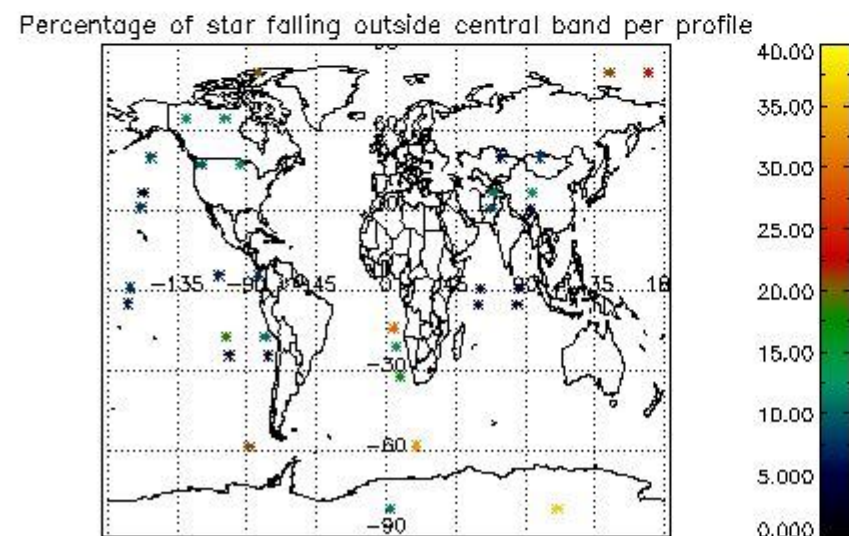
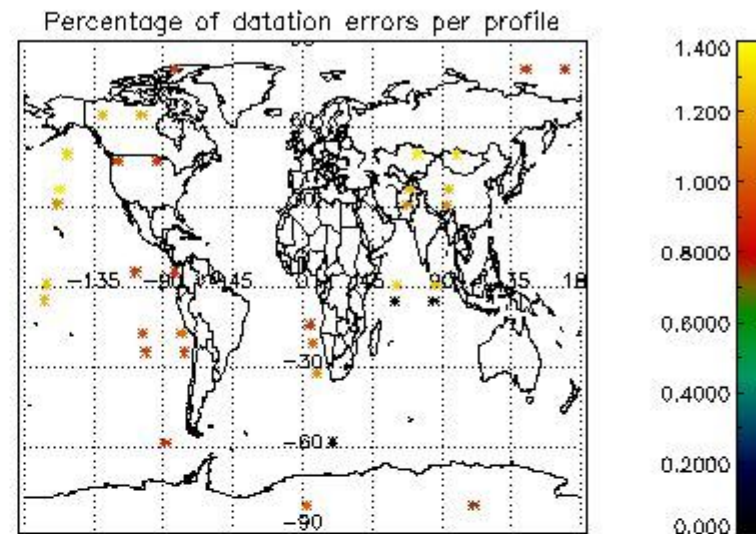
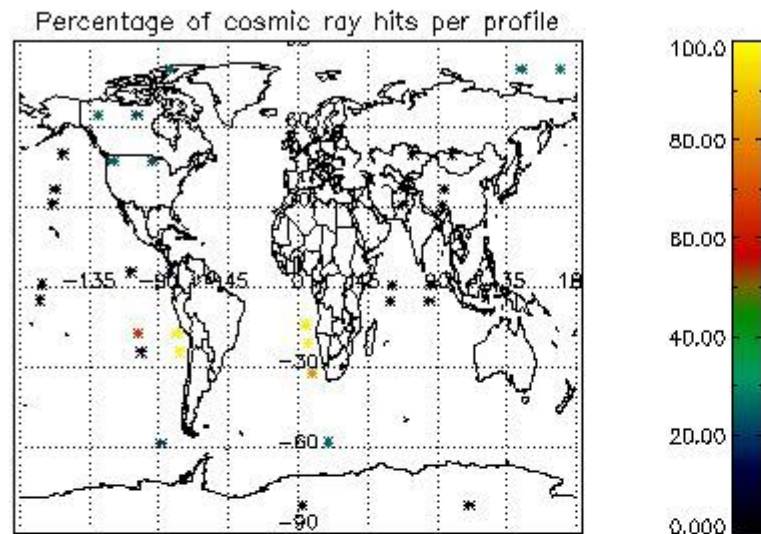
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	22.8571 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



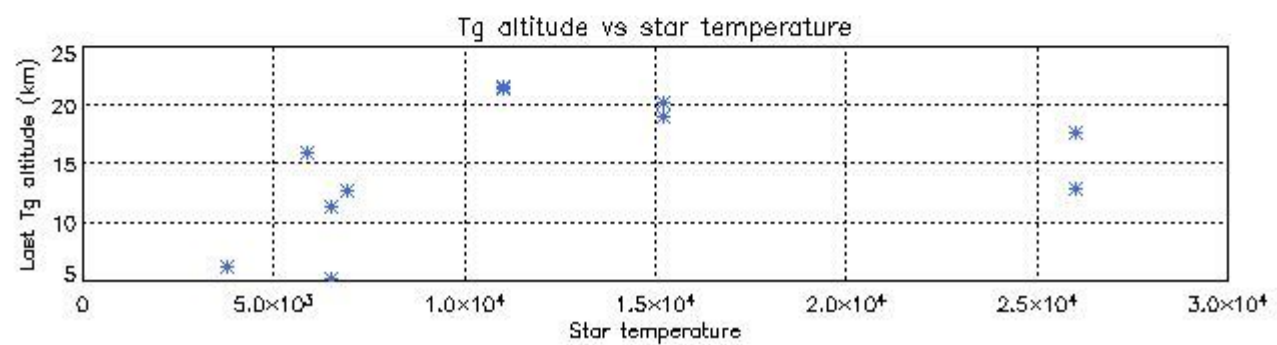
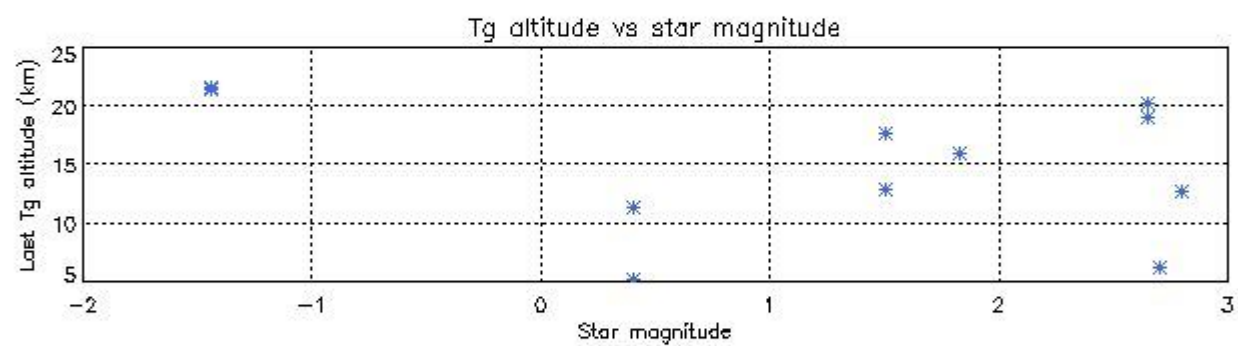
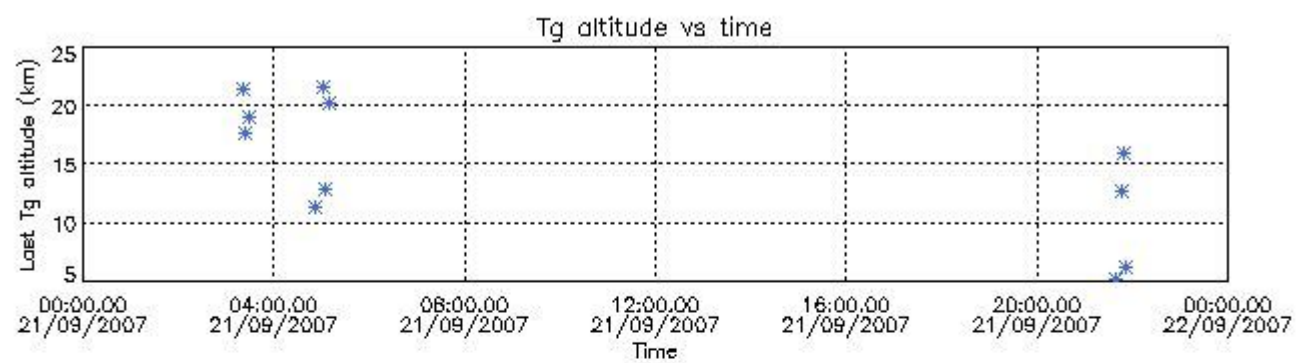
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.922	19.432	NaN
St. deviation:	5.7819	4.6339	NaN
Maximum:	21.609	25.201	NaN
Minimum:	5.0926	4.0796	NaN
Number of data:	11.000	17.000	NaN

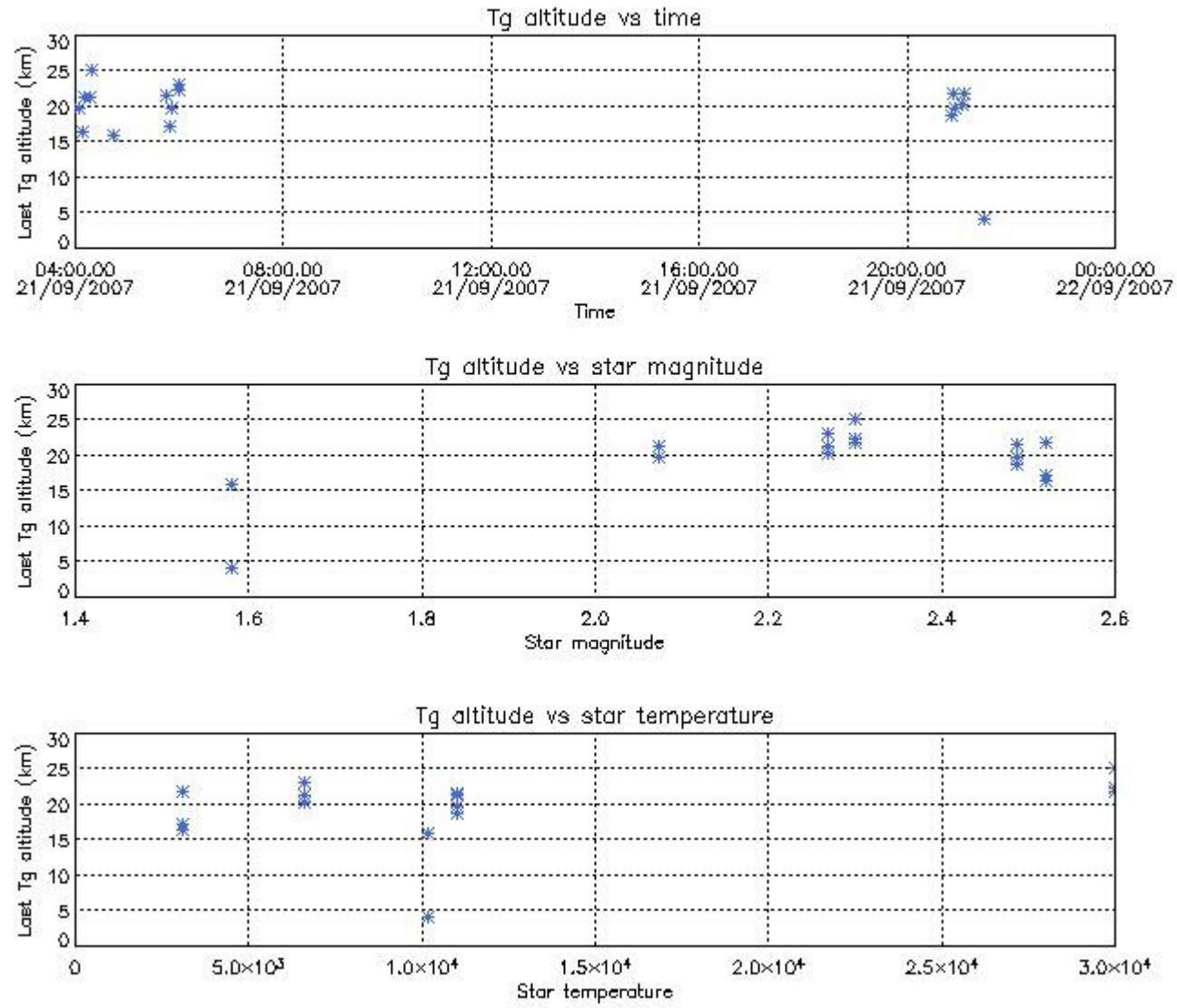
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

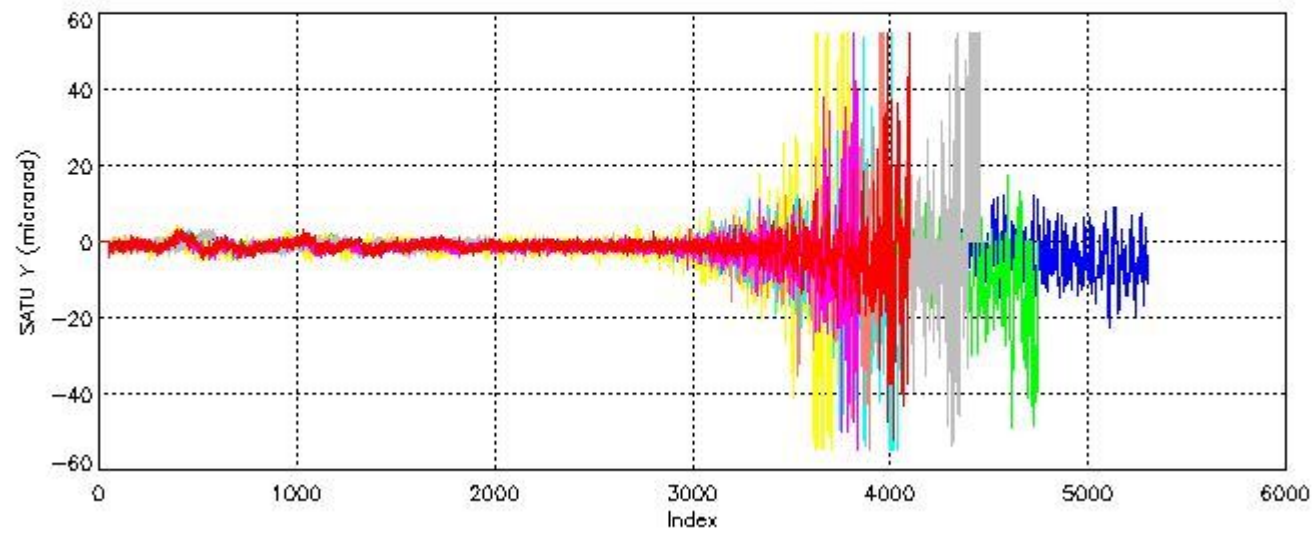
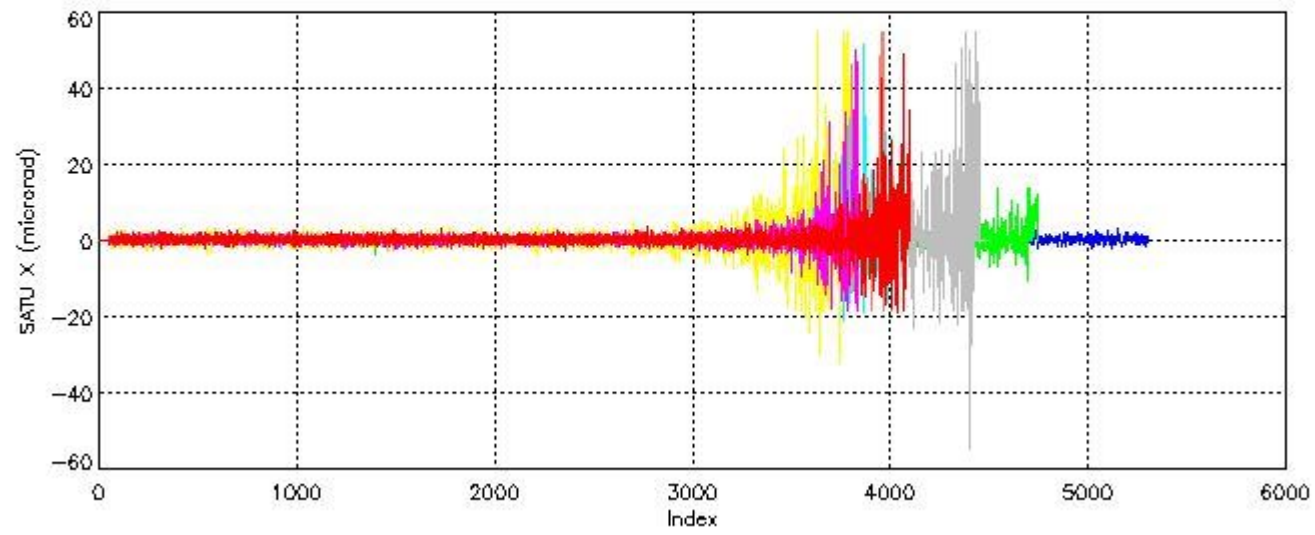


7. Star Acquisition and Tracking Unit (SATU)

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:	0.29700	-1.1051	0.25961	-1.2045
St. deviation:	0.45525	0.90684	0.67993	1.2002
Maximum:	3.5000	3.4000	4.0000	4.0000
Minimum:	-3.1000	-5.0000	-4.4000	-6.2000

Number of data:	12950.	12950.	15950.	15950.
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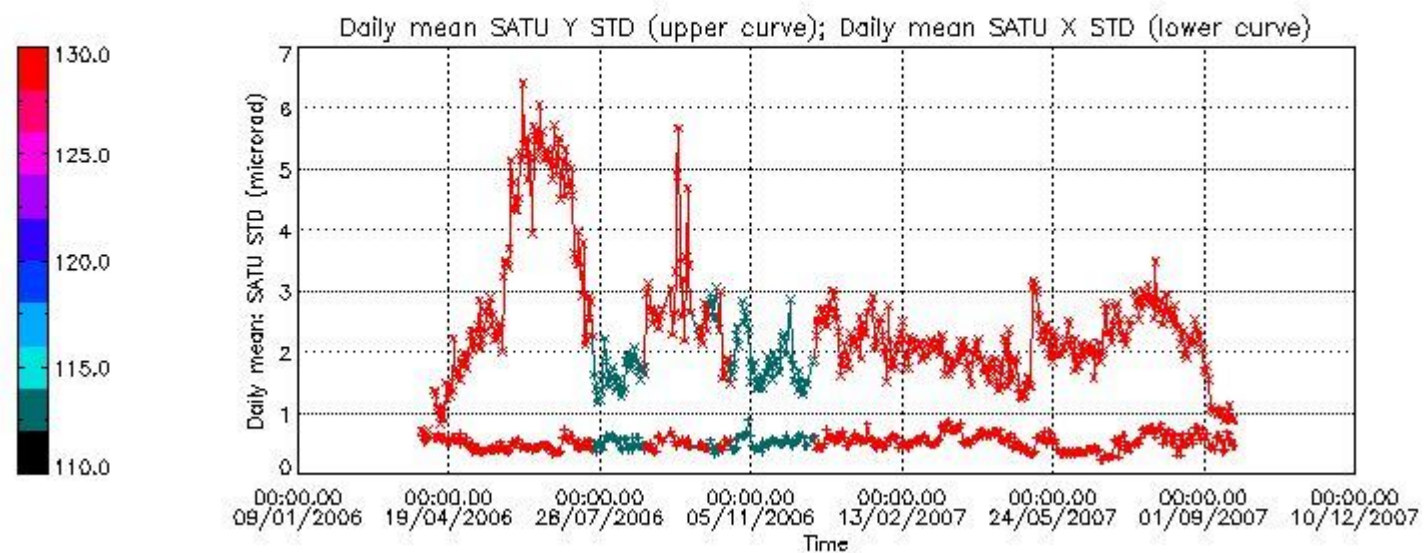
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

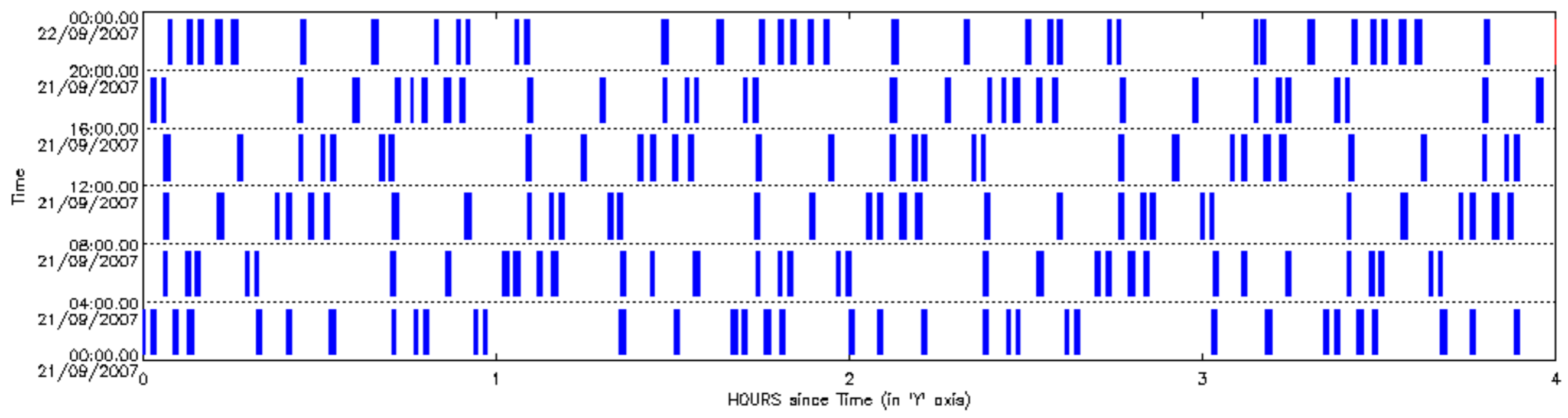
Lower curve: STD of SATU X axis

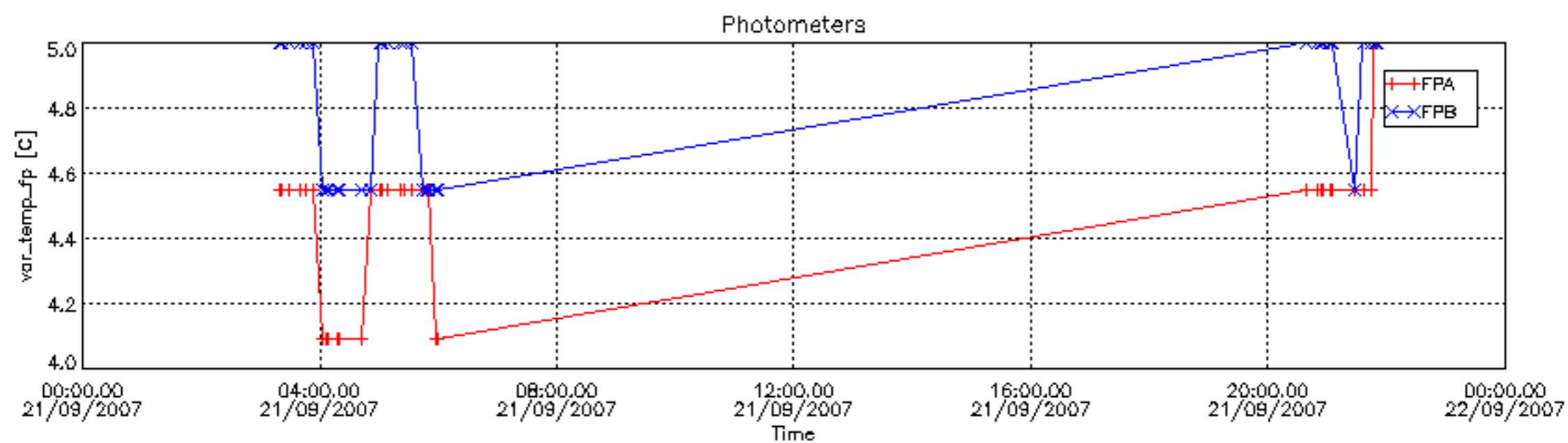
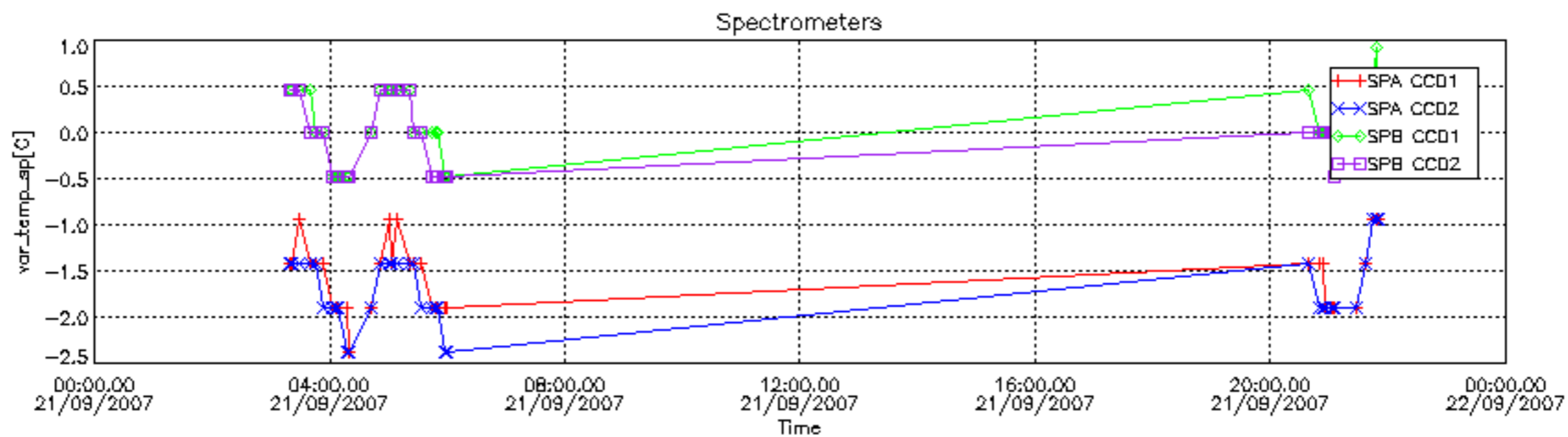


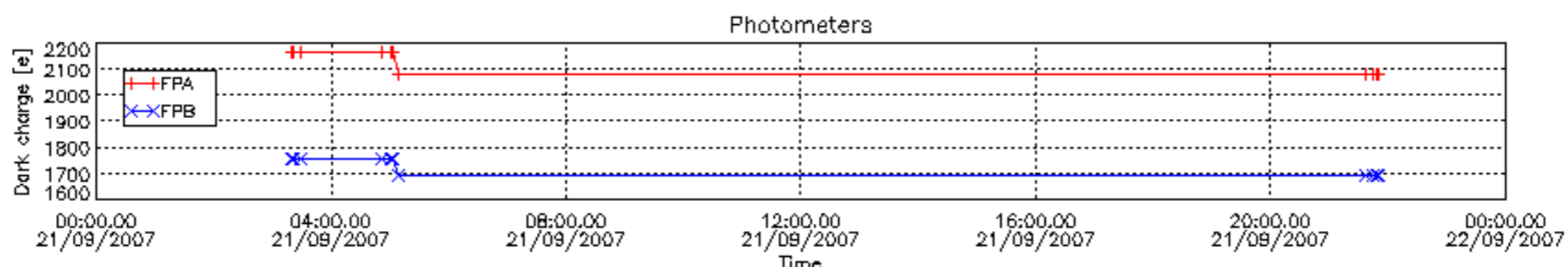
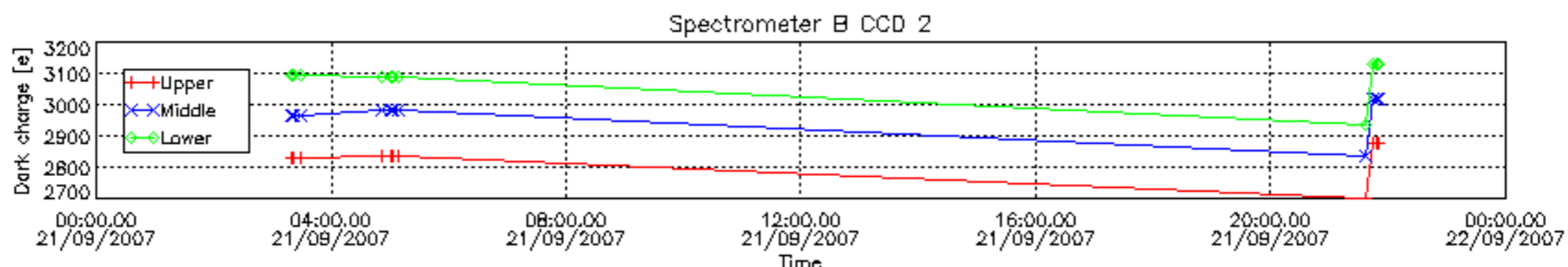
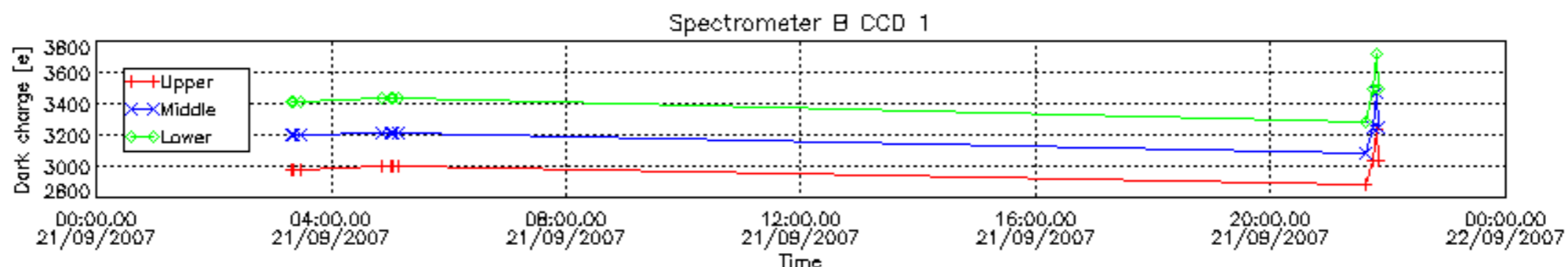
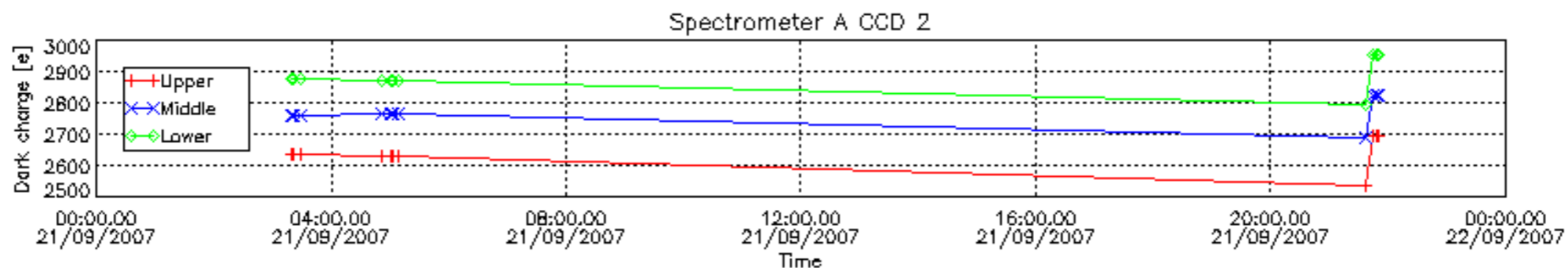
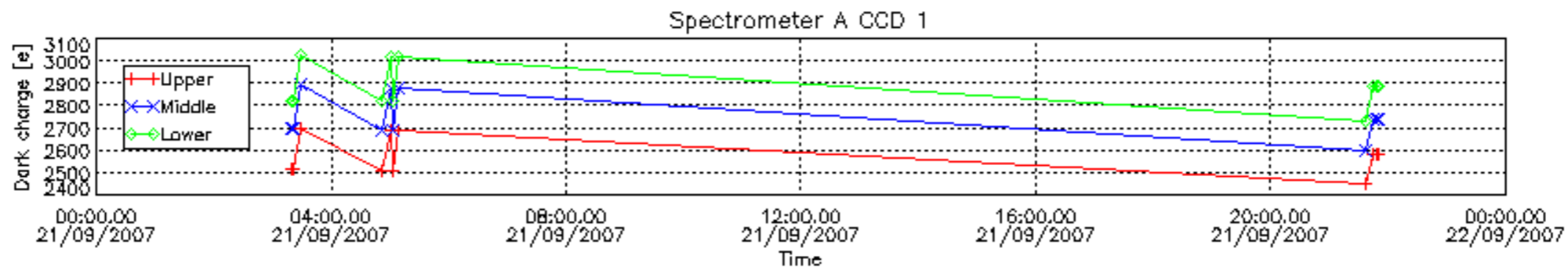
8. Auxiliary Data Files used for the production reported in section 2.4

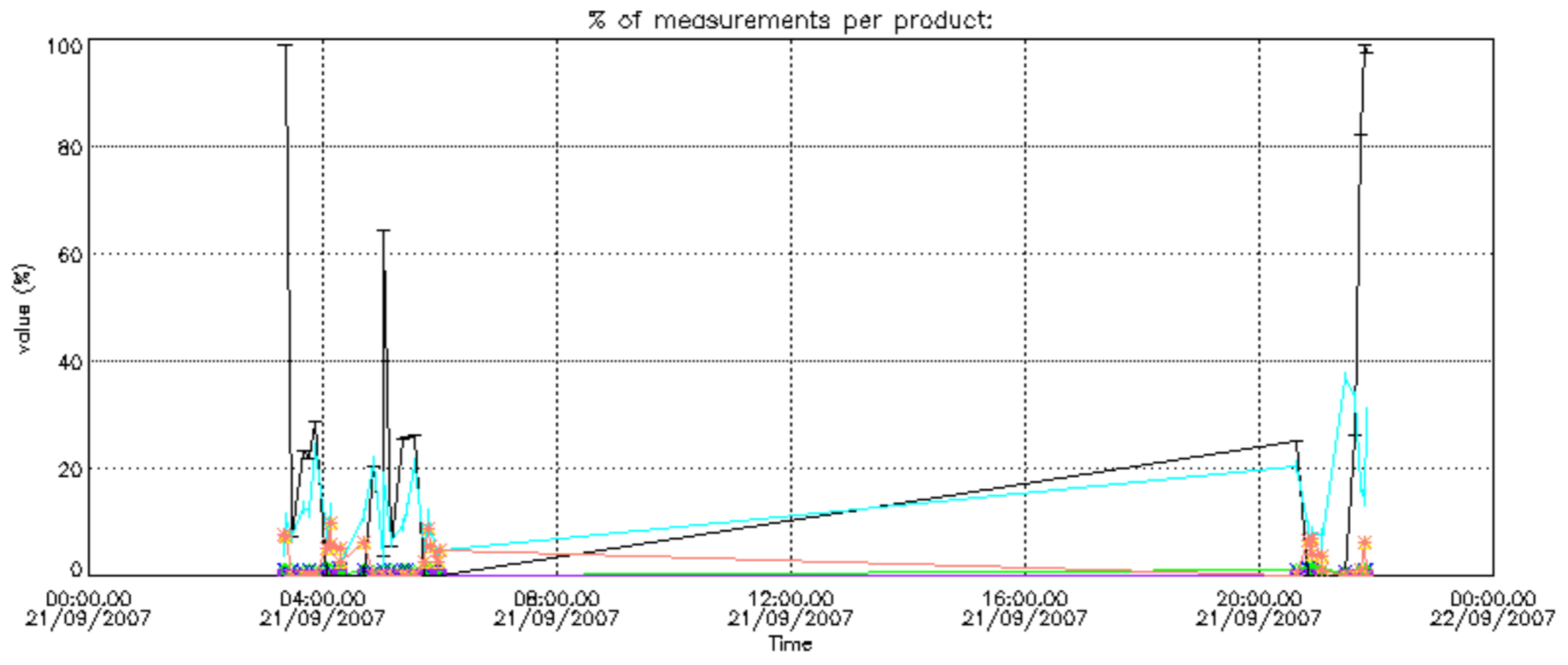
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	21-SEP-2007 03:20:24
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070905_122547_20070904_000000_20100101_000000	1	21-SEP-2007 03:20:24
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	21-SEP-2007 03:20:24
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	21-SEP-2007 03:20:24
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	21-SEP-2007 03:20:24
ECMWF_FILE	AUX_ECF_AXNECM20070920_180116_20070921_030000_20070921_150000	1	21-SEP-2007 03:20:24
ECMWF_FILE	AUX_ECF_AXNECM20070921_060113_20070921_150000_20070922_030000	25	21-SEP-2007 20:38:50
ECMWF_FILE	AUX_ECF_AXNECM20070921_060113_20070921_210000_20070922_090000	33	21-SEP-2007 21:44:42
OPTIONAL_ECMWF_FILE	MISSING	1	21-SEP-2007 03:20:24
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20070920_010111_20070919_193550_20070929_210202	1	21-SEP-2007 03:20:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070921_202526_000041442061_00458_29069_4222.N1	25	21-SEP-2007 20:38:50

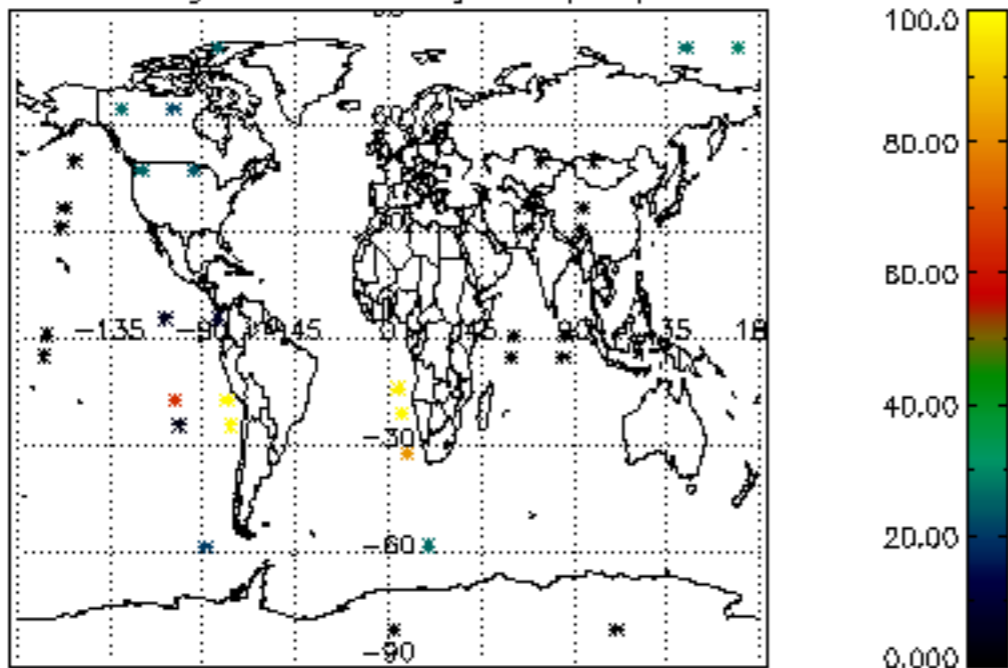




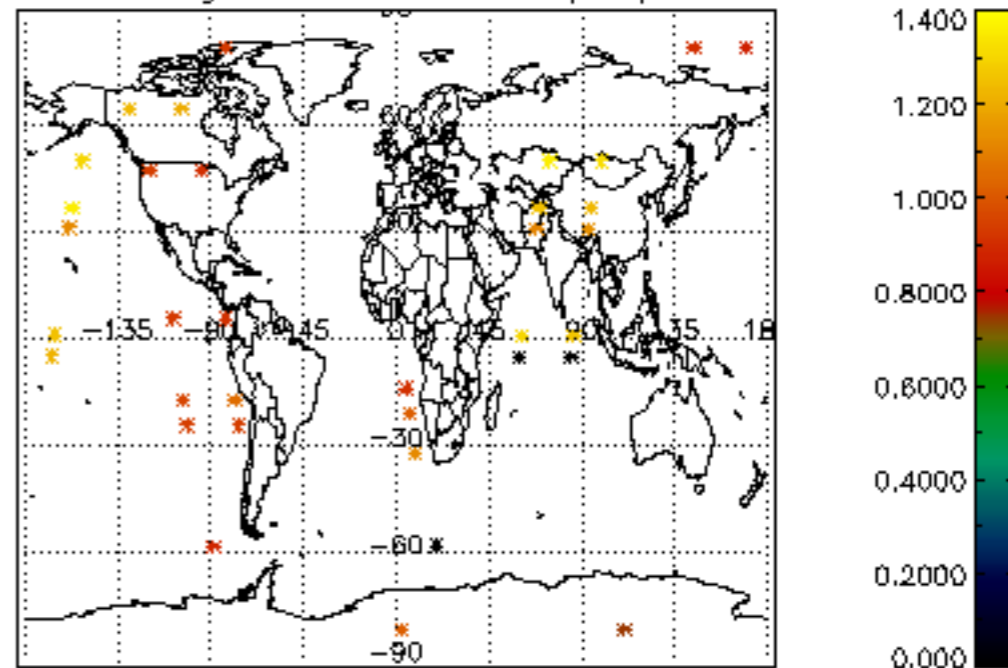




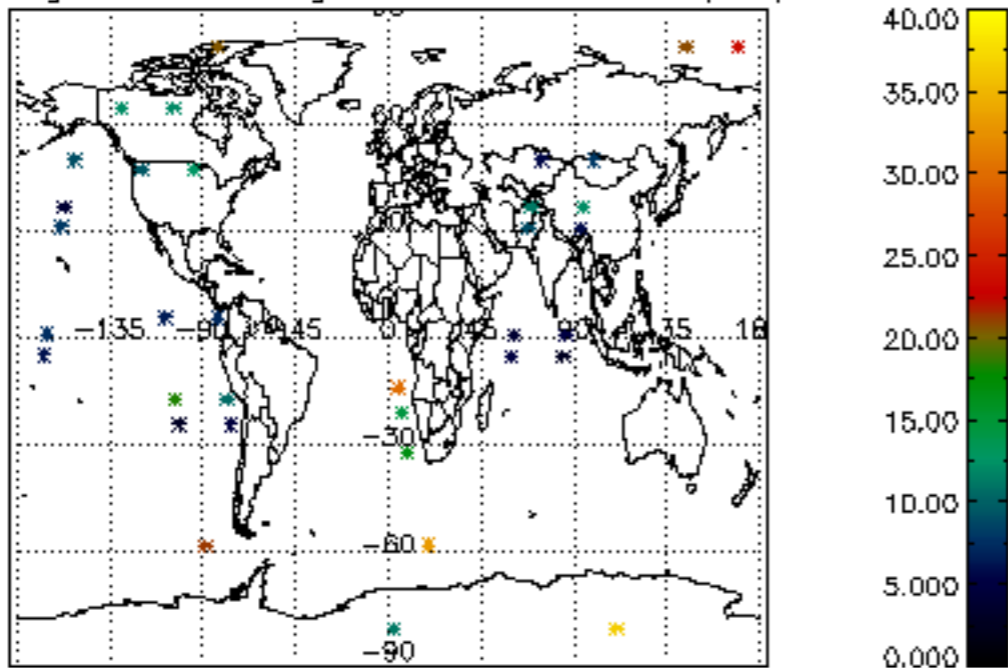
Percentage of cosmic ray hits per profile



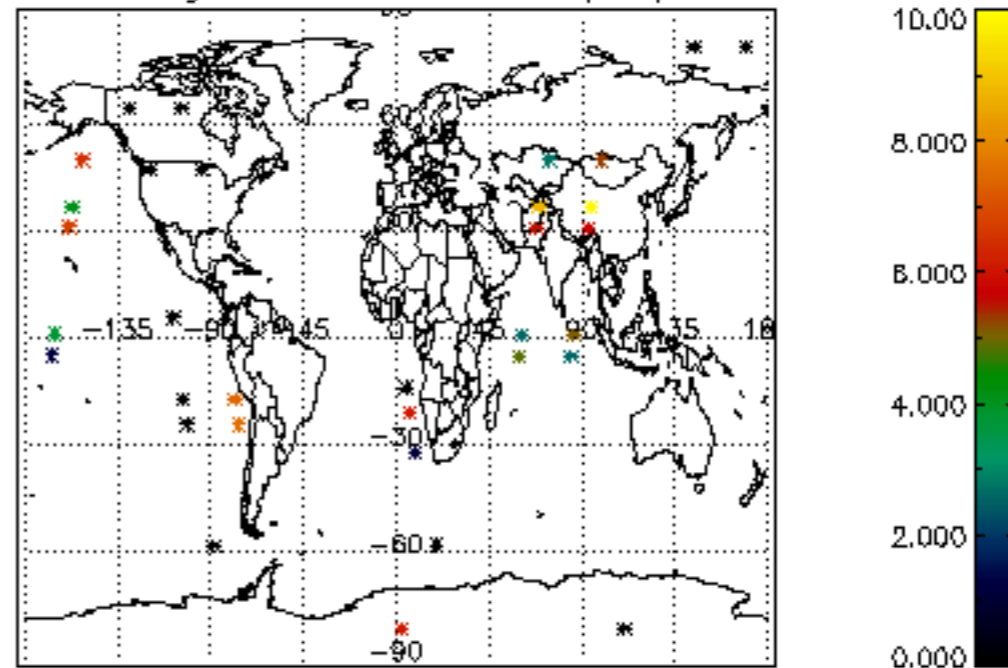
Percentage of datation errors per profile



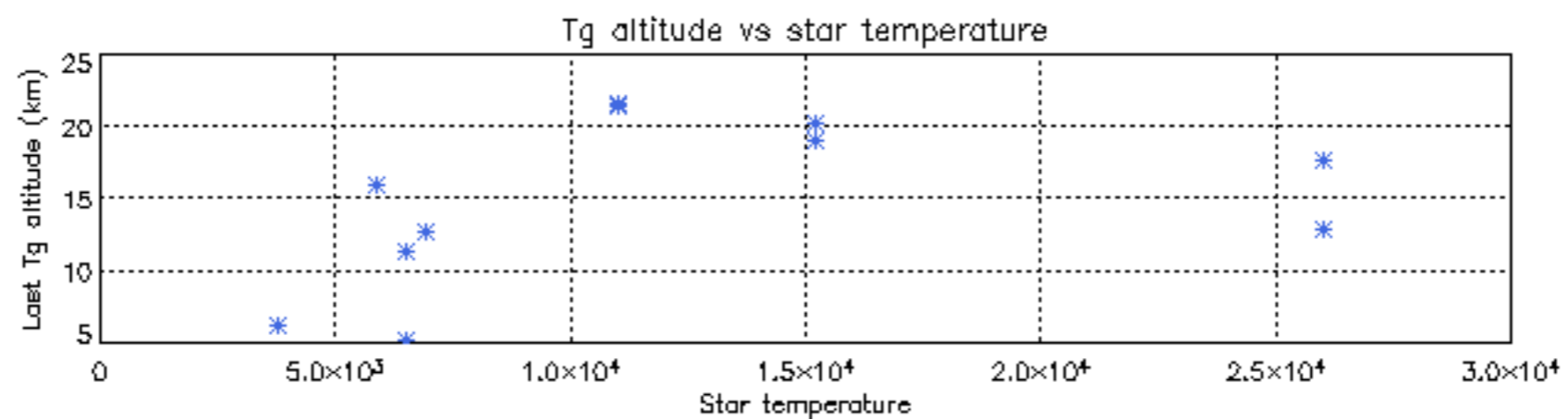
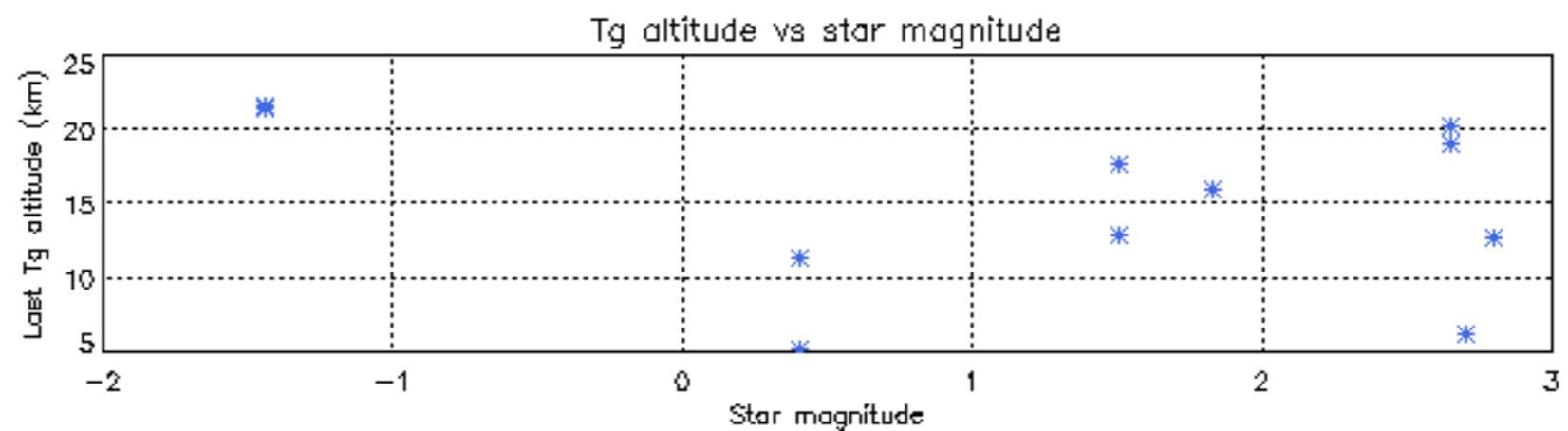
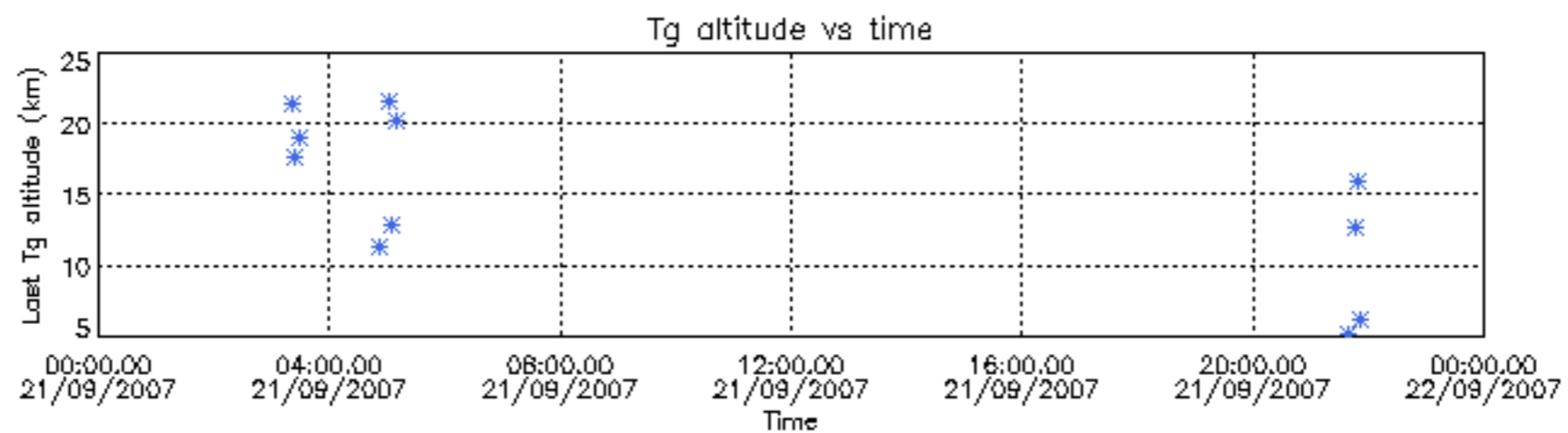
Percentage of star falling outside central band per profile



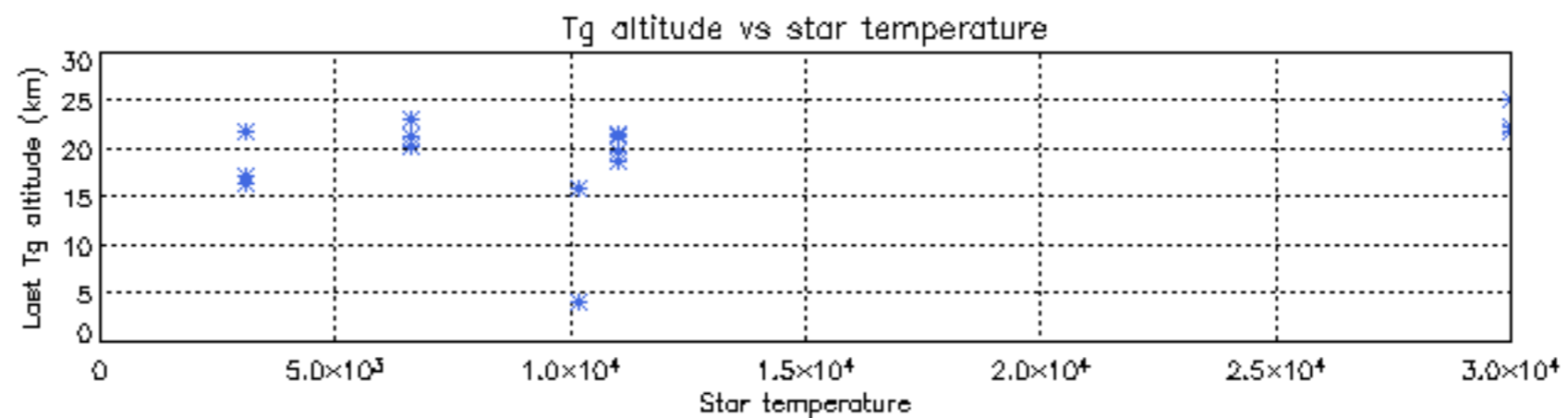
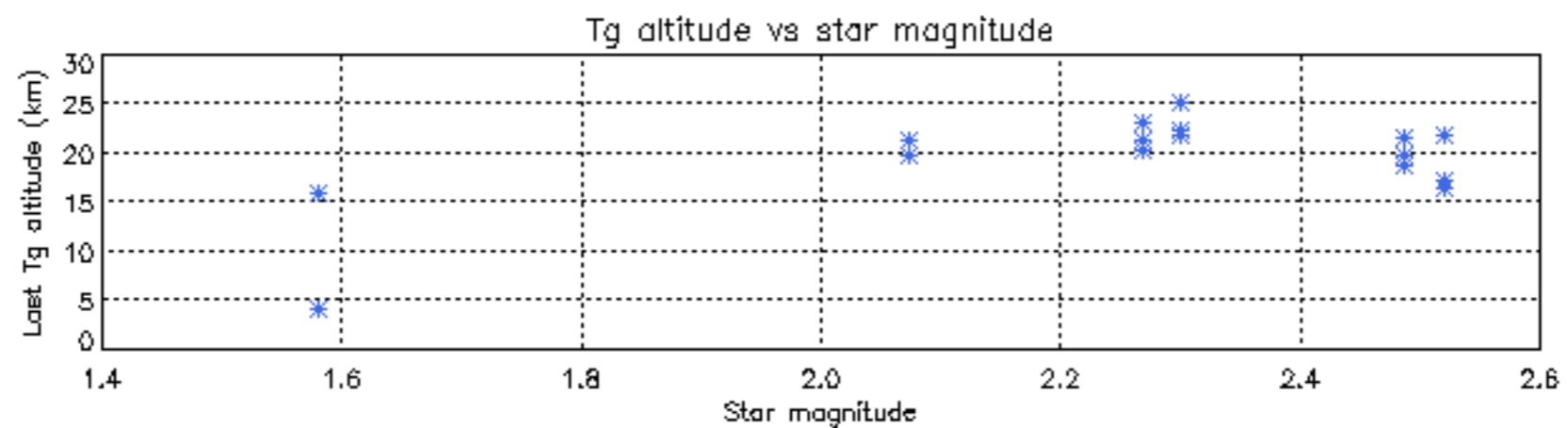
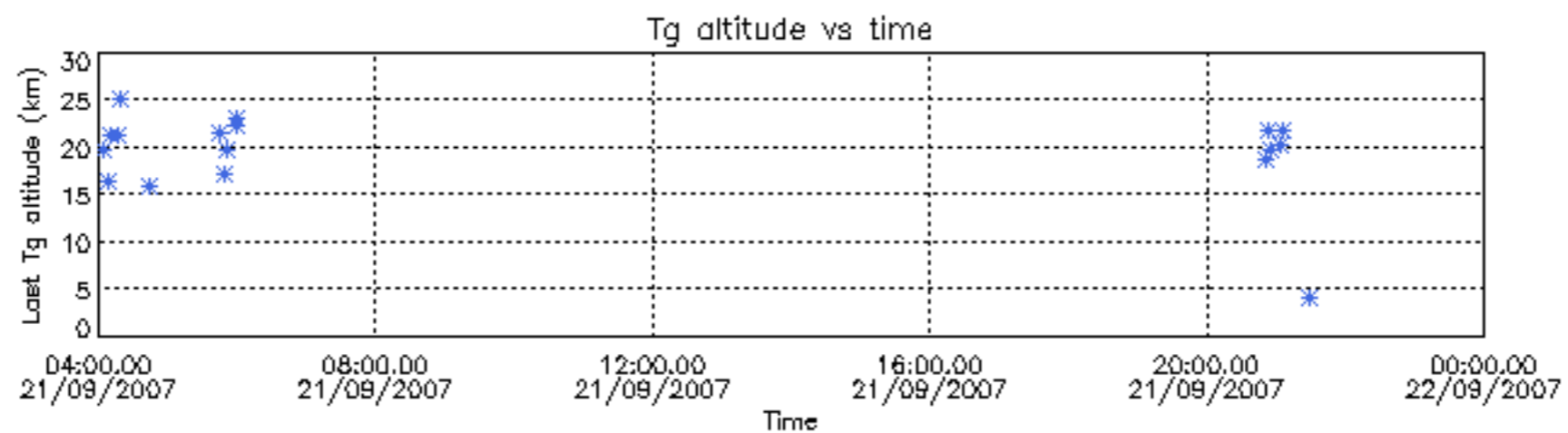
Percentage of saturation errors per profile

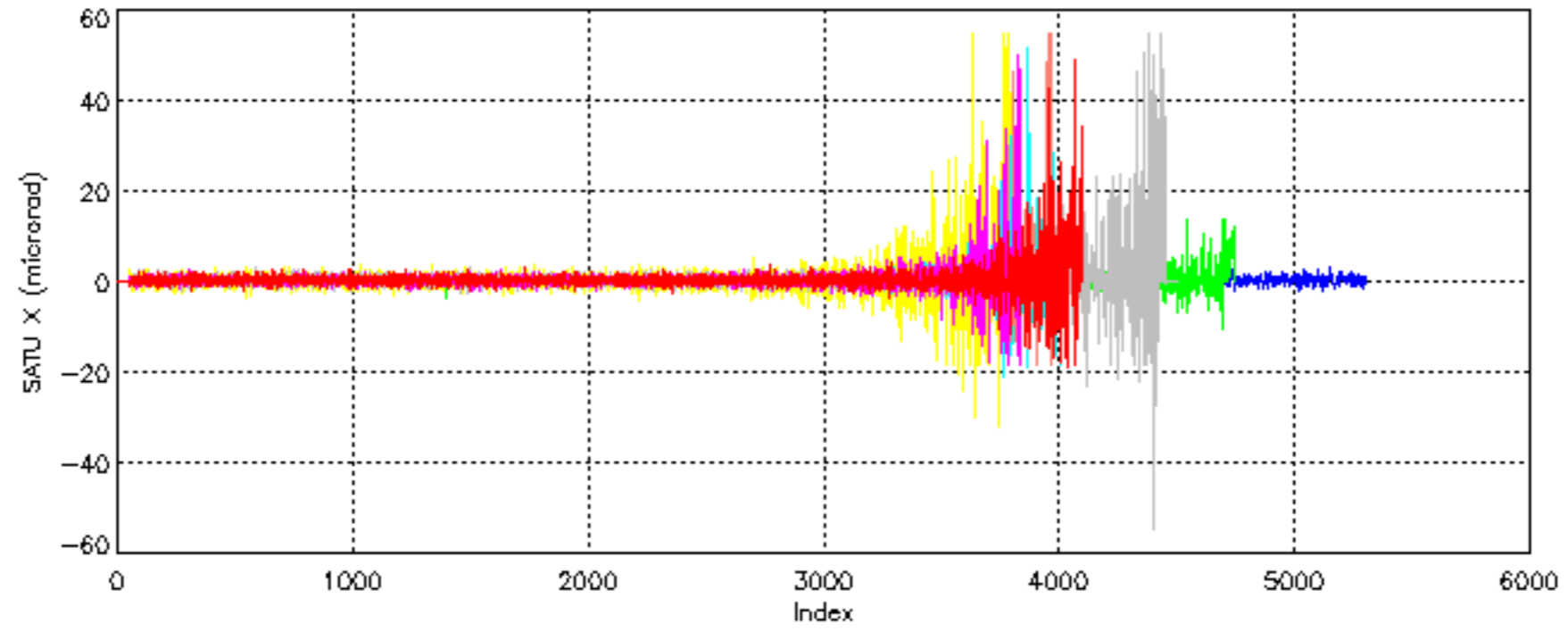


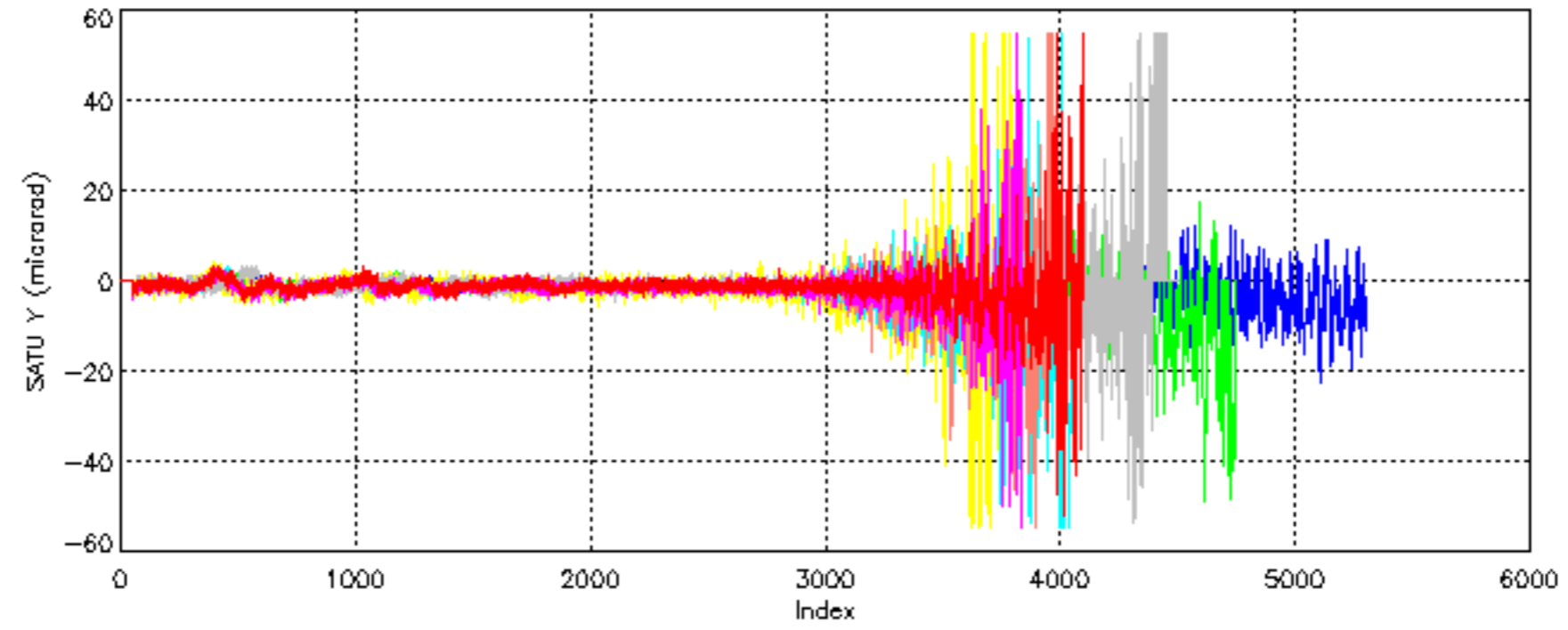
Tangent altitude at which the star is lost

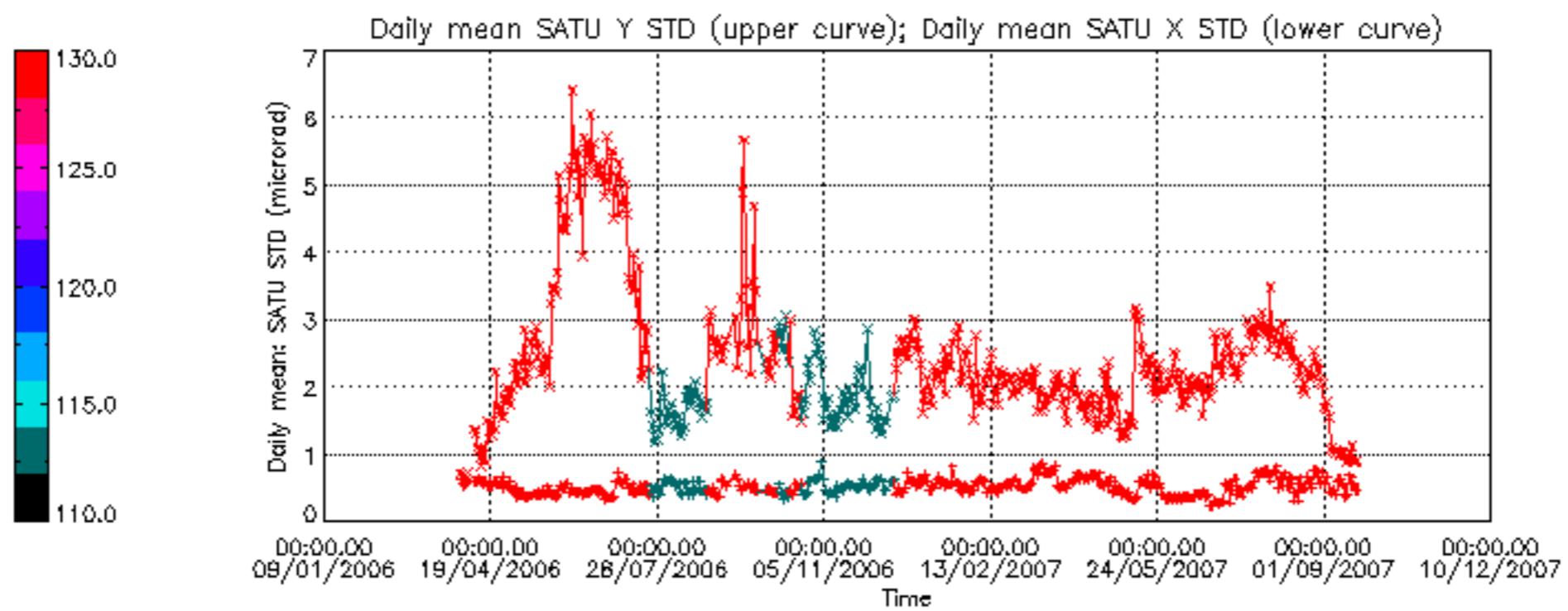


Tangent altitude at which the star is lost









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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
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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
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 6; -498.7; 01-SEP-2007 03:47:41; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 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
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 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
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 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
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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
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 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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 6; 531.5; 02-SEP-2007 00:12:03; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;28785
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 9; 603.0; 01-SEP-2007 07:27:15; Dark ; 54.0; 9; Alp Eri ; 0.45; 24000;occ; 108; 0;28775
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12; 1619.4; 01-SEP-2007 07:44:11; Dark ; 45.5; 142; 49Del Cap ; 2.85; 8900;occ; 91; 0;28775
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4; 2075.8; 01-SEP-2007 07:51:48; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;28775
5; 2678.4; 01-SEP-2007 08:01:50; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;28775
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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
 14; 5758.2; 03-SEP-2007 19:34:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;28810
 15; 5843.4; 03-SEP-2007 19:35:33; Dark ; 45.0; 108; Alp Col ; 2.65; 15200;occ; 90; 0;28810
 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
 18; 6660.6; 03-SEP-2007 19:49:10; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;28810
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 9; 1061.9; 04-SEP-2007 00:58:15; Dark ; 49.5; 63; Bet Gru ; 2.15; 2800;occ; 99; 0;28814
 10; 1339.5; 04-SEP-2007 01:02:52; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;28814


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13; 1895.3; 04-SEP-2007 01:12:08; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;28814
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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16; 3434.0; 04-SEP-2007 01:37:47; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;28814
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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 4; -679.3; 04-SEP-2007 05:31:01; Dark ; 148.5; 13; 87Alp Tau ; 0.87; 3800;occ; 297; 0;28816
 5; 459.3; 04-SEP-2007 05:50:00; Dark ; 225.0; 165; 34Gam Eri ; 2.95; 3200;occ; 450; 0;28817
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 3; 3516.5; 04-SEP-2007 21:46:20; Bright; 78.5; 73; 57Gam1And ; 2.26; 13100;occ; 157; 0;28826
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 3; -1403.8; 04-SEP-2007 06:59:33; Dark ; 255.0; 150; 44Zet Per ; 2.89; 28000;occ; 510; 0;28817
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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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