

GOMOS Daily Report 08-JUL-2007

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

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

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

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

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

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

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

[4. Dark Charge monitoring](#)

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

[4.2 Plot of Dark Charge](#)

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

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

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

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

[6. Star tangent altitude lost](#)

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

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

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

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

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

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

[7.2 SATU Noise Equivalent Angle statistics](#)

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

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

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

[Level 2 products](#)

This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	10JUL2007 09:05:50
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (08JUL2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (09JUL2007 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)

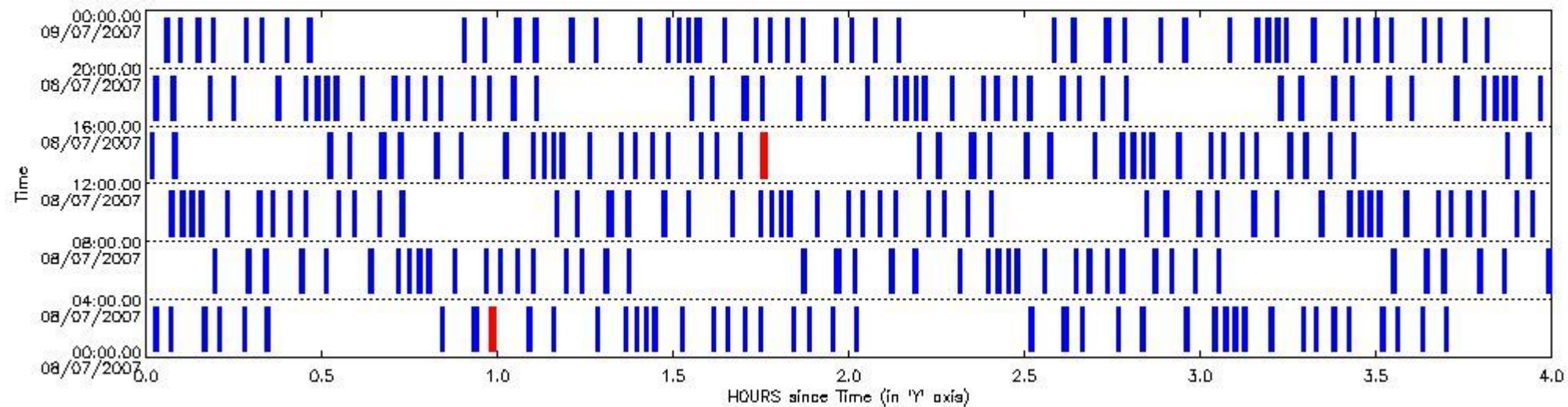
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

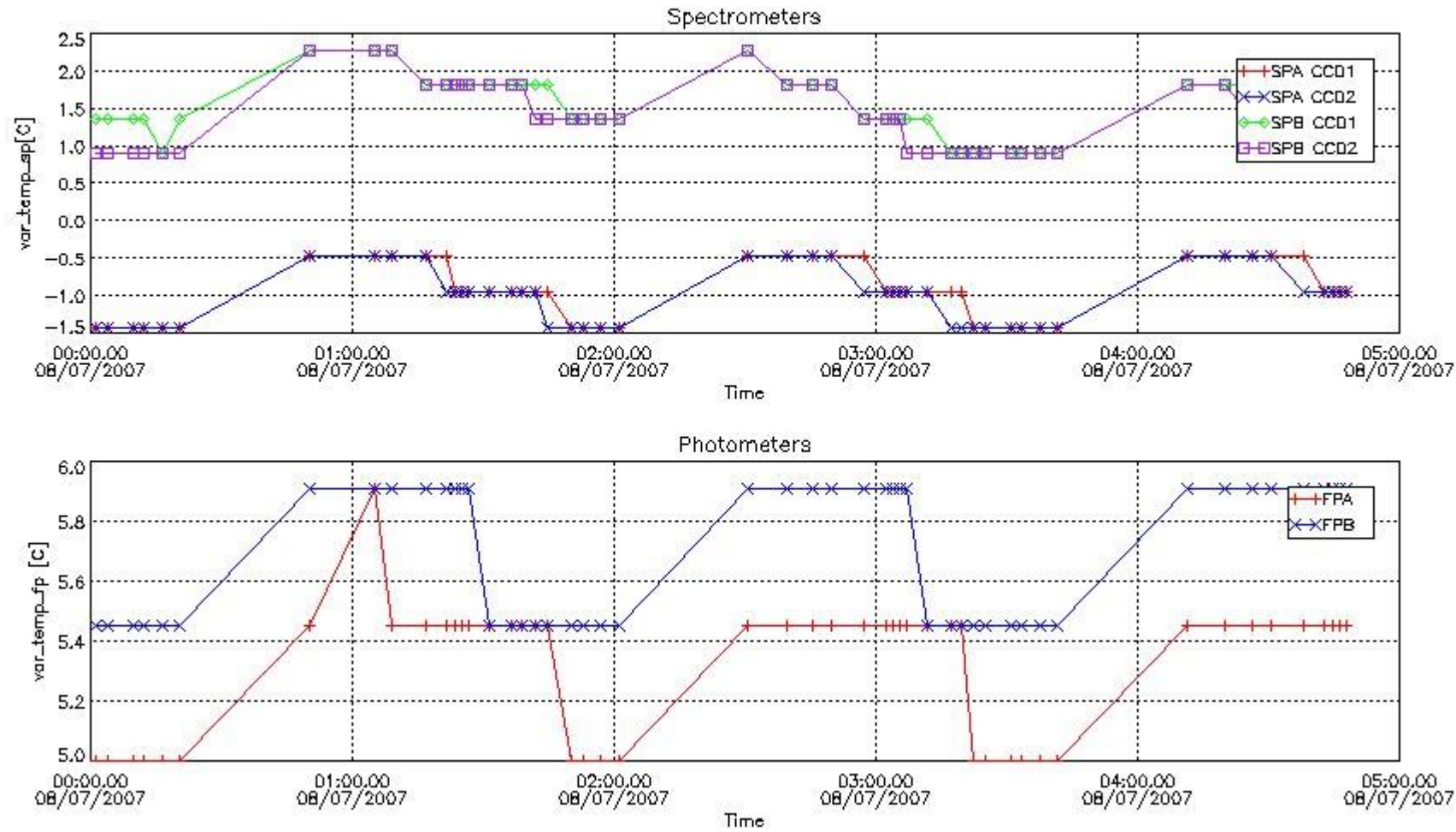
UTC start time	Star name	Star ID	Orbit
08-JUL-2007 00:58:40	The1Eri	157	27983
08-JUL-2007 13:45:02	1AlpUMi	49	27991

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_1PNPDE20070708_000119_000000362059_00374_27983_5921.N1	08-JUL-2007 00:01:19	Bright	35.500	127	27Bet Her	2.7810	4700.0	71	27983	No
2	GOM_TRA_1PNPDE20070708_000357_000000362059_00374_27983_5922.N1	08-JUL-2007 00:03:57	Bright	35.500	133	40Zet Her	2.8070	6000.0	71	27983	No
3	GOM_TRA_1PNPDE20070708_000937_000000372059_00374_27983_5923.N1	08-JUL-2007 00:09:37	Bright	37.000	130	23Bet Dra	2.7990	5800.0	74	27983	No
4	GOM_TRA_1PNPDE20070708_001217_000000352059_00374_27983_5924.N1	08-JUL-2007 00:12:17	Bright	35.000	119	14Eta Dra	2.7270	4700.0	70	27983	No
5	GOM_TRA_1PNPDE20070708_001625_000000332059_00374_27983_5925.N1	08-JUL-2007 00:16:25	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	27983	No
6	GOM_TRA_1PNPDE20070708_002023_000000352059_00374_27983_5926.N1	08-JUL-2007 00:20:23	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	27983	No
7	GOM_TRA_1PNPDE20070708_005009_000000402059_00374_27983_5927.N1	08-JUL-2007 00:50:09	Dark	40.000	165	34Gam Eri	2.9500	3200.0	80	27983	No
8	GOM_TRA_1PNPDE20070708_010500_000000462059_00375_27984_6056.N1	08-JUL-2007 01:05:00	Dark	46.000	9	Alp Eri	0.45300	24000.	92	27984	No
9	GOM_TRA_1PNPDE20070708_010912_000000382059_00375_27984_6057.N1	08-JUL-2007 01:09:12	Dark	38.000	135	Bet Hyi	2.8200	5800.0	76	27984	No

10	GOM_TRA_1PNPDE20070708_011643_000000412059_00375_27984_6058.N1	08-JUL-2007 01:16:43	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	27984	No
11	GOM_TRA_1PNPDE20070708_012134_000000382059_00375_27984_6059.N1	08-JUL-2007 01:21:34	Twilight_stray	37.500	147	Alp Ara	2.8770	26000.	75	27984	No
12	GOM_TRA_1PNPDE20070708_012323_000000432059_00375_27984_6060.N1	08-JUL-2007 01:23:23	Twilight_stray	43.000	40	The Sco	1.8590	7100.0	86	27984	No
13	GOM_TRA_1PNPDE20070708_012503_000000422059_00375_27984_6061.N1	08-JUL-2007 01:25:03	Twilight_stray	42.000	25	35Lam Sco	1.6200	28000.	84	27984	No
14	GOM_TRA_1PNPDE20070708_012630_000000462059_00375_27984_6062.N1	08-JUL-2007 01:26:30	Bright	45.500	116	19Del Sgr	2.7000	4100.0	91	27984	No
15	GOM_TRA_1PNPDE20070708_013112_000000372059_00375_27984_6063.N1	08-JUL-2007 01:31:12	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	27984	No
16	GOM_TRA_1PNPDE20070708_013638_000000362059_00375_27984_6064.N1	08-JUL-2007 01:36:38	Bright	36.000	126	60Bet Oph	2.7700	4250.0	72	27984	No
17	GOM_TRA_1PNPDE20070708_013856_000000352059_00375_27984_6065.N1	08-JUL-2007 01:38:56	Bright	35.000	59	55Alp Oph	2.0800	8900.0	70	27984	No
18	GOM_TRA_1PNPDE20070708_014155_000000372059_00375_27984_6066.N1	08-JUL-2007 01:41:55	Bright	36.500	127	27Bet Her	2.7810	4700.0	73	27984	No
19	GOM_TRA_1PNPDE20070708_014433_000000362059_00375_27984_6067.N1	08-JUL-2007 01:44:33	Bright	35.500	133	40Zet Her	2.8070	6000.0	71	27984	No
20	GOM_TRA_1PNPDE20070708_015012_000000372059_00375_27984_6068.N1	08-JUL-2007 01:50:12	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	27984	No
21	GOM_TRA_1PNPDE20070708_015253_000000362059_00375_27984_6069.N1	08-JUL-2007 01:52:53	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	27984	No
22	GOM_TRA_1PNPDE20070708_015701_000000322059_00375_27984_6070.N1	08-JUL-2007 01:57:01	Bright	32.000	60	7Bet UMi	2.0810	3950.0	64	27984	No
23	GOM_TRA_1PNPDE20070708_020059_000000342059_00375_27984_6071.N1	08-JUL-2007 02:00:59	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	27984	No
24	GOM_TRA_1PNPDE20070708_023045_000000412059_00375_27984_6221.N1	08-JUL-2007 02:30:45	Dark	41.000	165	34Gam Eri	2.9500	3200.0	82	27984	No
25	GOM_TRA_1PNPDE20070708_023925_000000402059_00375_27984_6222.N1	08-JUL-2007 02:39:25	Dark	39.500	157	The1Eri	2.9060	9300.0	79	27984	No
26	GOM_TRA_1PNPDE20070708_024536_000000412059_00376_27985_6223.N1	08-JUL-2007 02:45:36	Dark	41.000	9	Alp Eri	0.45300	24000.	82	27985	No
27	GOM_TRA_1PNPDE20070708_024948_000000372059_00376_27985_6224.N1	08-JUL-2007 02:49:48	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	27985	No
28	GOM_TRA_1PNPDE20070708_025720_000000402059_00376_27985_6225.N1	08-JUL-2007 02:57:20	Straylight	39.500	45	Alp Pav	1.9400	26000.	79	27985	No
29	GOM_TRA_1PNPDE20070708_030210_000000372059_00376_27985_6226.N1	08-JUL-2007 03:02:10	Twilight_stray	36.500	147	Alp Ara	2.8770	26000.	73	27985	No
30	GOM_TRA_1PNPDE20070708_030359_000000392059_00376_27985_6227.N1	08-JUL-2007 03:03:59	Twilight_stray	38.500	40	The Sco	1.8590	7100.0	77	27985	No
31	GOM_TRA_1PNPDE20070708_030539_000000402059_00376_27985_6228.N1	08-JUL-2007 03:05:39	Twilight_stray	40.000	25	35Lam Sco	1.6200	28000.	80	27985	No
32	GOM_TRA_1PNPDE20070708_030707_000000522059_00376_27985_6229.N1	08-JUL-2007 03:07:07	Bright	51.500	116	19Del Sgr	2.7000	4100.0	103	27985	No
33	GOM_TRA_1PNPDE20070708_031148_000000372059_00376_27985_6230.N1	08-JUL-2007 03:11:48	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	27985	No
34	GOM_TRA_1PNPDE20070708_031714_000000362059_00376_27985_6231.N1	08-JUL-2007 03:17:14	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	27985	No
35	GOM_TRA_1PNPDE20070708_031932_000000362059_00376_27985_6232.N1	08-JUL-2007 03:19:32	Bright	35.500	59	55Alp Oph	2.0800	8900.0	71	27985	No
36	GOM_TRA_1PNPDE20070708_032232_000000342059_00376_27985_6233.N1	08-JUL-2007 03:22:32	Bright	33.500	127	27Bet Her	2.7810	4700.0	67	27985	No
37	GOM_TRA_1PNPDE20070708_032509_000000342059_00376_27985_6234.N1	08-JUL-2007 03:25:09	Bright	34.000	133	40Zet Her	2.8070	6000.0	68	27985	No
38	GOM_TRA_1PNPDE20070708_033048_000000362059_00376_27985_6235.N1	08-JUL-2007 03:30:48	Bright	36.000	130	23Bet Dra	2.7990	5800.0	72	27985	No
39	GOM_TRA_1PNPDE20070708_033329_000000332059_00376_27985_6236.N1	08-JUL-2007 03:33:29	Bright	33.000	119	14Eta Dra	2.7270	4700.0	66	27985	No
40	GOM_TRA_1PNPDE20070708_033737_000000322059_00376_27985_6237.N1	08-JUL-2007 03:37:37	Bright	32.000	60	7Bet UMi	2.0810	3950.0	64	27985	No
41	GOM_TRA_1PNPDE20070708_034134_000000342059_00376_27985_6238.N1	08-JUL-2007 03:41:34	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	27985	No
42	GOM_TRA_1PNPDE20070708_041122_000000432059_00376_27985_6405.N1	08-JUL-2007 04:11:22	Dark	43.000	165	34Gam Eri	2.9500	3200.0	86	27985	No
43	GOM_TRA_1PNPDE20070708_042002_000000412059_00376_27985_6406.N1	08-JUL-2007 04:20:02	Dark	41.000	157	The1Eri	2.9060	9300.0	82	27985	No
44	GOM_TRA_1PNPDE20070708_042613_000000432059_00377_27986_6407.N1	08-JUL-2007 04:26:13	Dark	43.000	9	Alp Eri	0.45300	24000.	86	27986	No
45	GOM_TRA_1PNPDE20070708_043024_000000362059_00377_27986_6408.N1	08-JUL-2007 04:30:24	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	27986	No
46	GOM_TRA_1PNPDE20070708_043756_000000422059_00377_27986_6409.N1	08-JUL-2007 04:37:56	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	27986	No
47	GOM_TRA_1PNPDE20070708_044246_000000372059_00377_27986_6410.N1	08-JUL-2007 04:42:46	Twilight_stray	37.000	147	Alp Ara	2.8770	26000.	74	27986	No
48	GOM_TRA_1PNPDE20070708_044436_000000402059_00377_27986_6411.N1	08-JUL-2007 04:44:36	Twilight_stray	39.500	40	The Sco	1.8590	7100.0	79	27986	No
49	GOM_TRA_1PNPDE20070708_044615_000000412059_00377_27986_6412.N1	08-JUL-2007 04:46:15	Twilight_stray	41.000	25	35Lam Sco	1.6200	28000.	82	27986	No
50	GOM_TRA_1PNPDE20070708_044743_000000532059_00377_27986_6413.N1	08-JUL-2007 04:47:43	Bright	53.000	116	19Del Sgr	2.7000	4100.0	106	27986	No

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



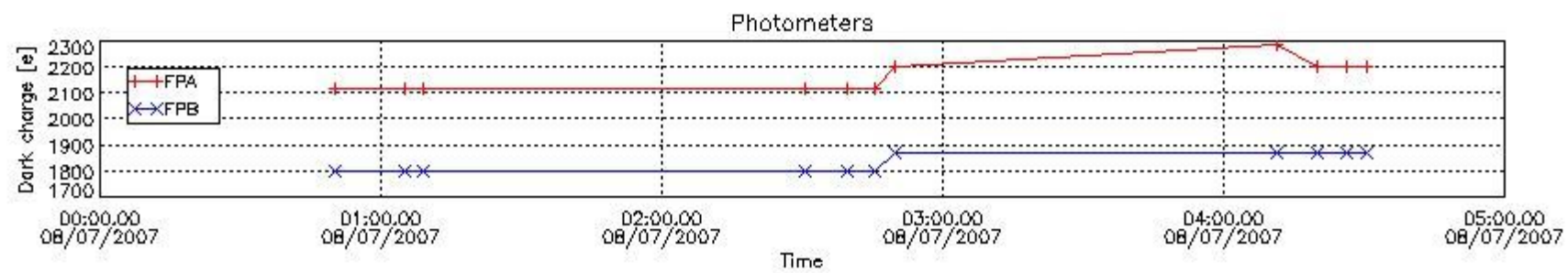
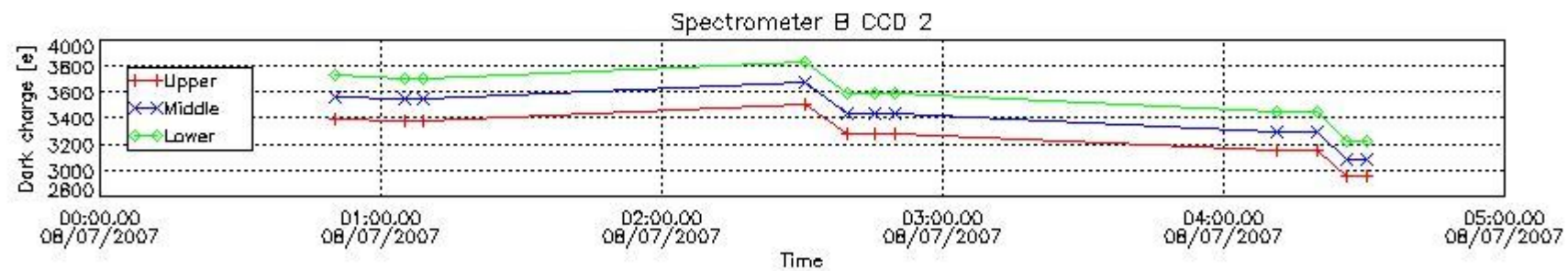
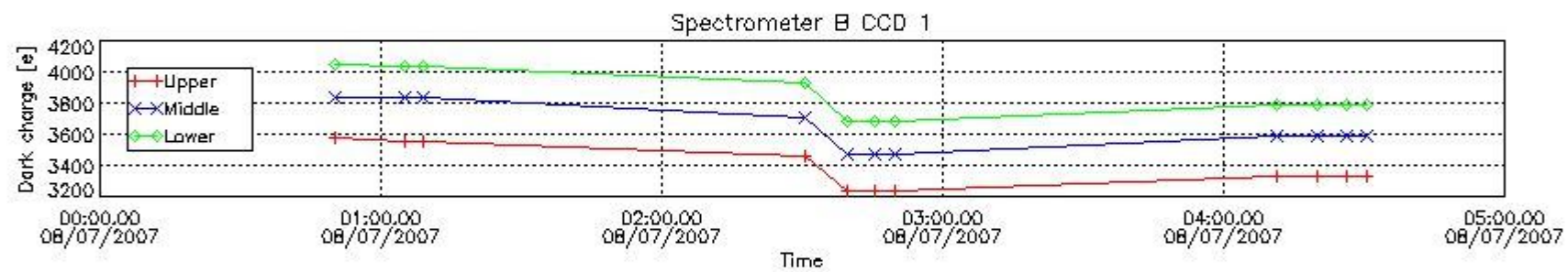
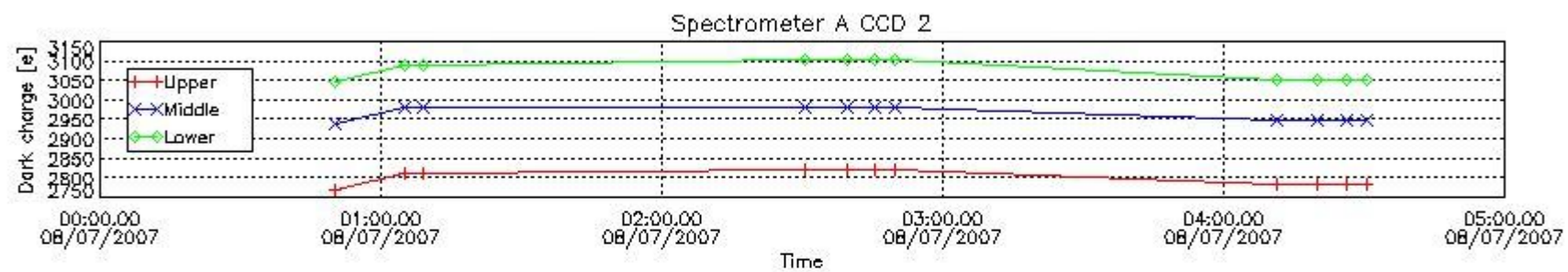
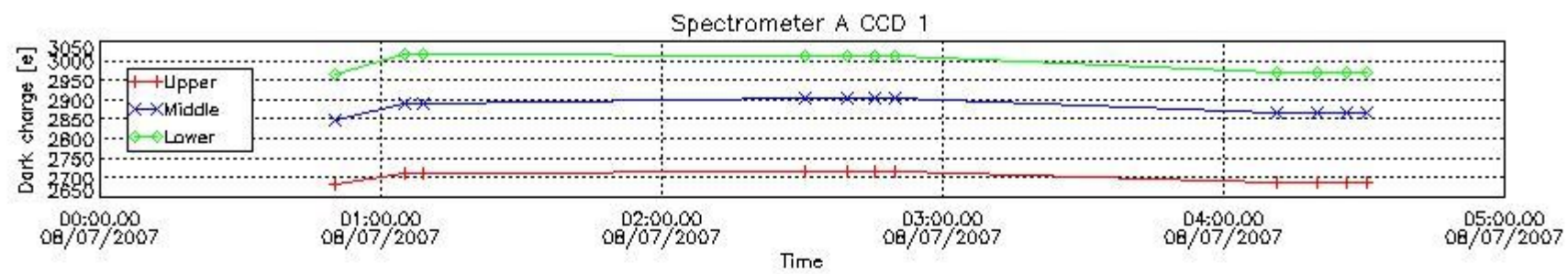
4. Overview of dark signal processing per product

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



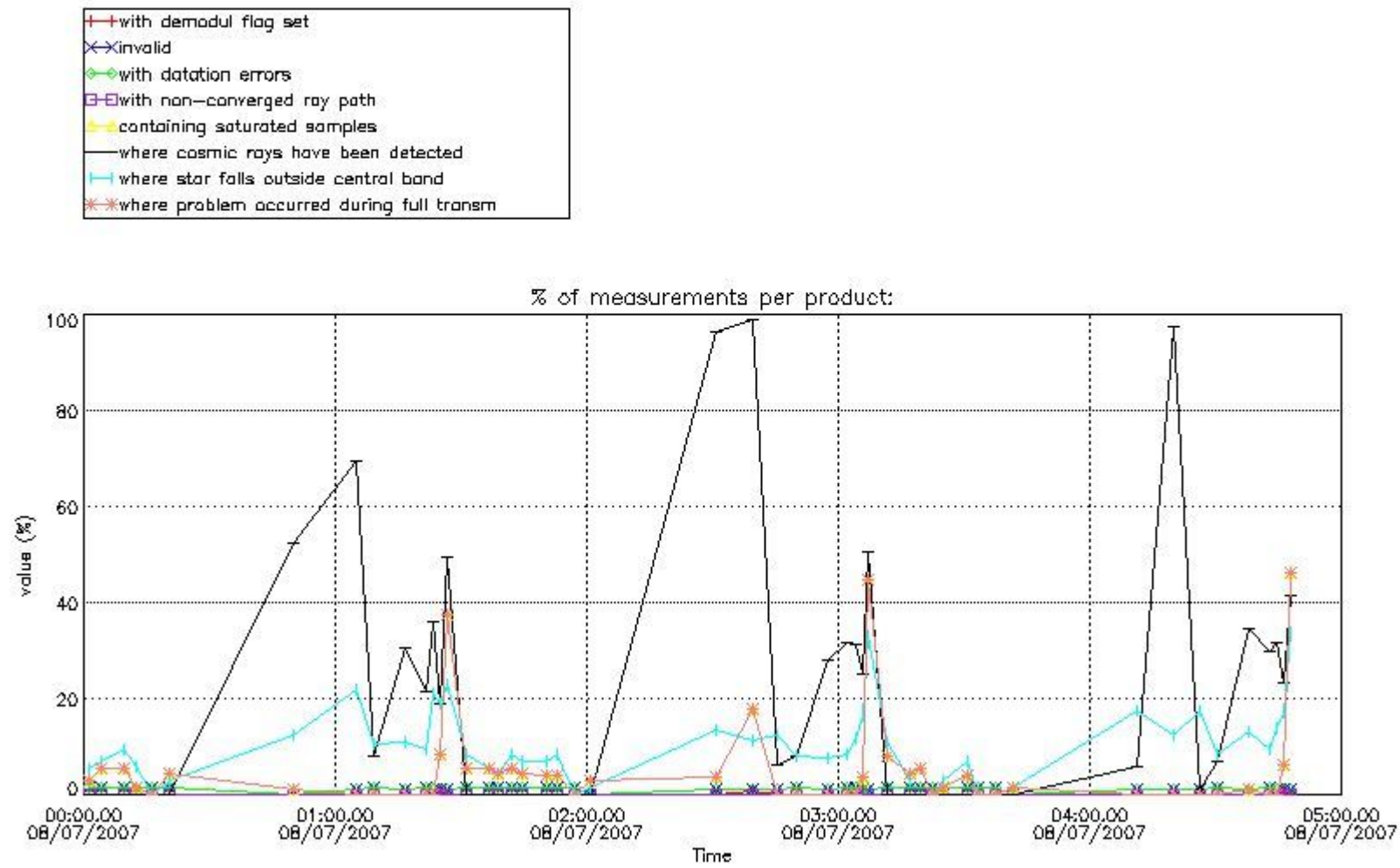
5. Demodulation flag and quality information monitoring

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.

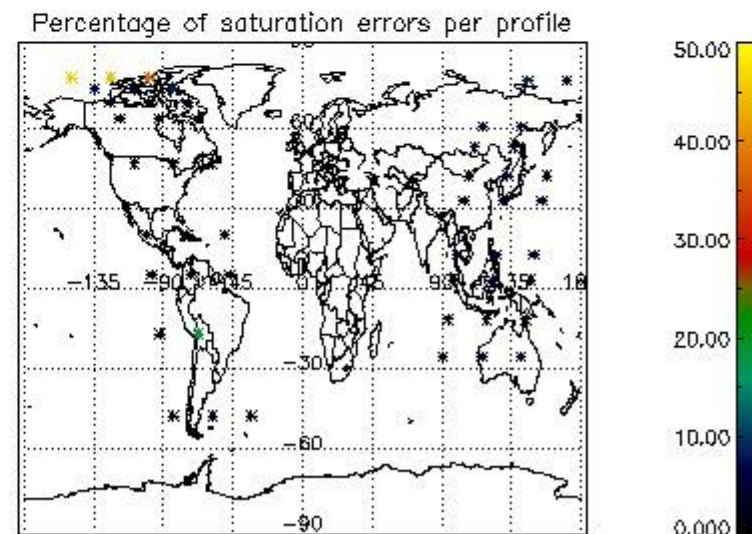
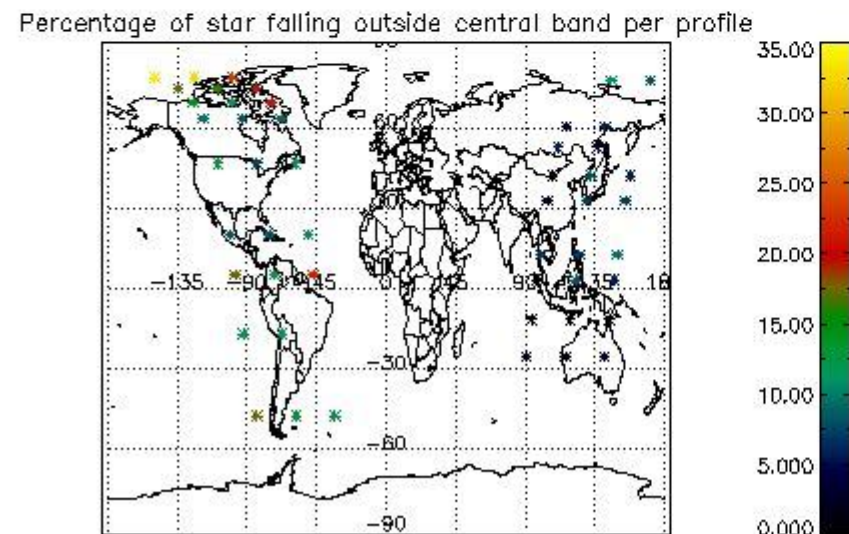
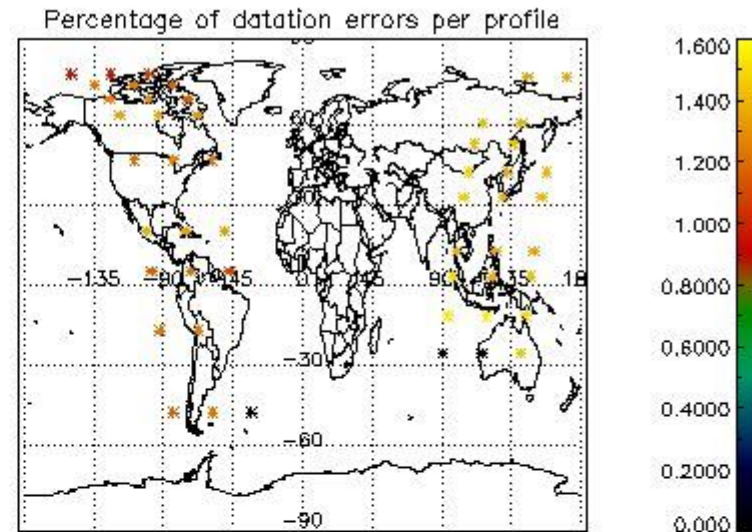
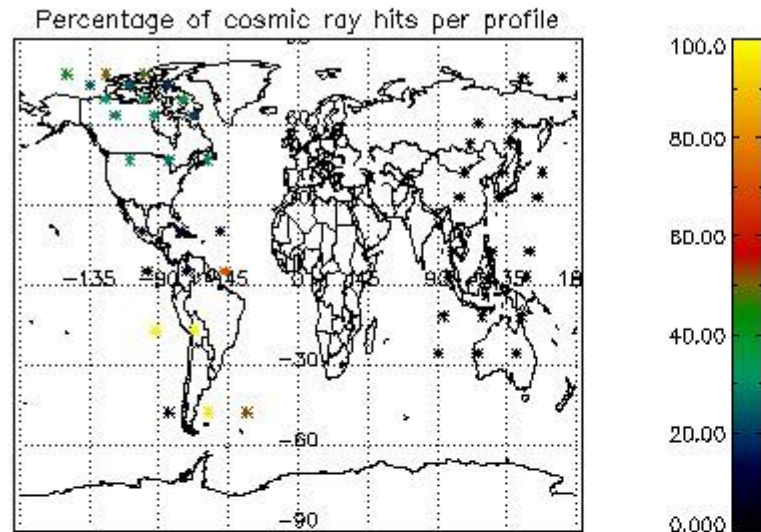
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	20.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



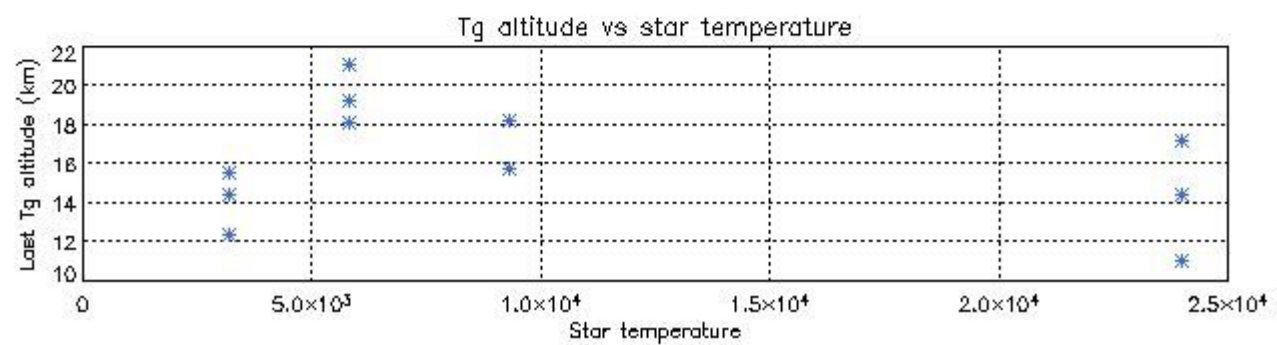
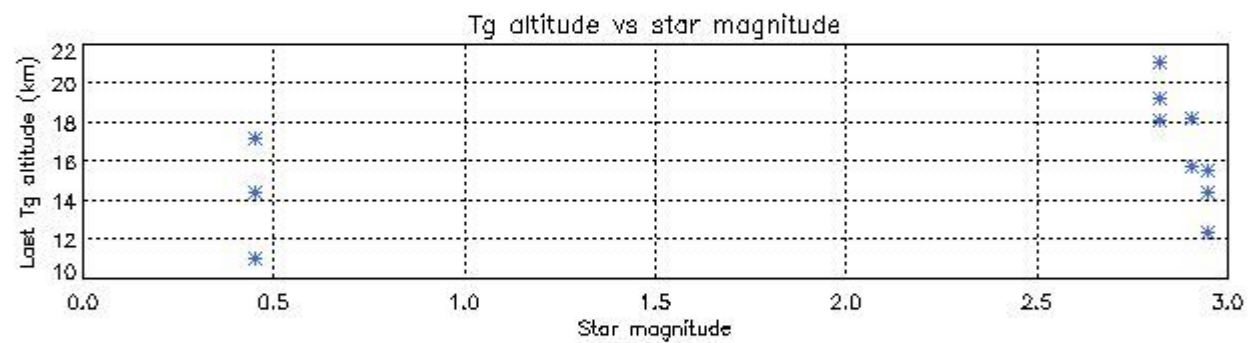
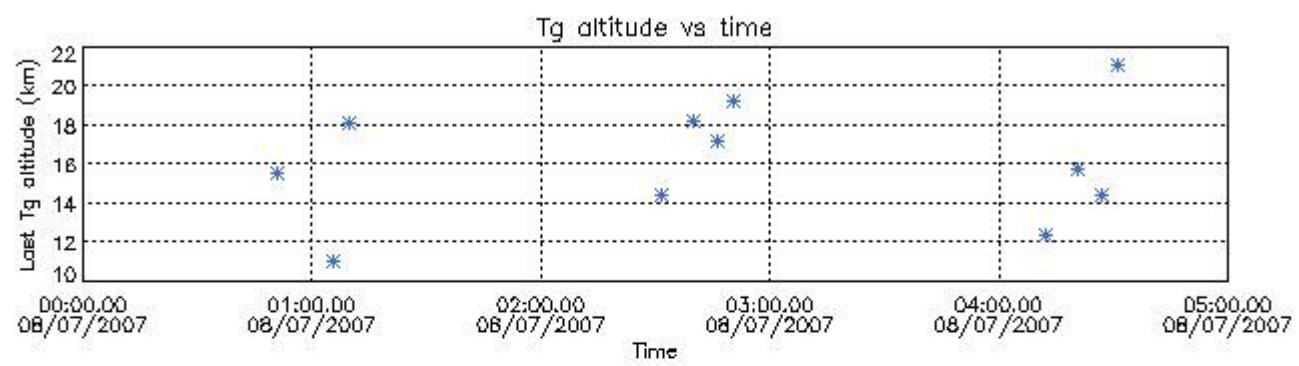
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.104	21.023	NaN
St. deviation:	3.0031	6.1876	NaN
Maximum:	21.048	30.079	NaN
Minimum:	10.988	4.1423	NaN
Number of data:	11.000	27.000	NaN

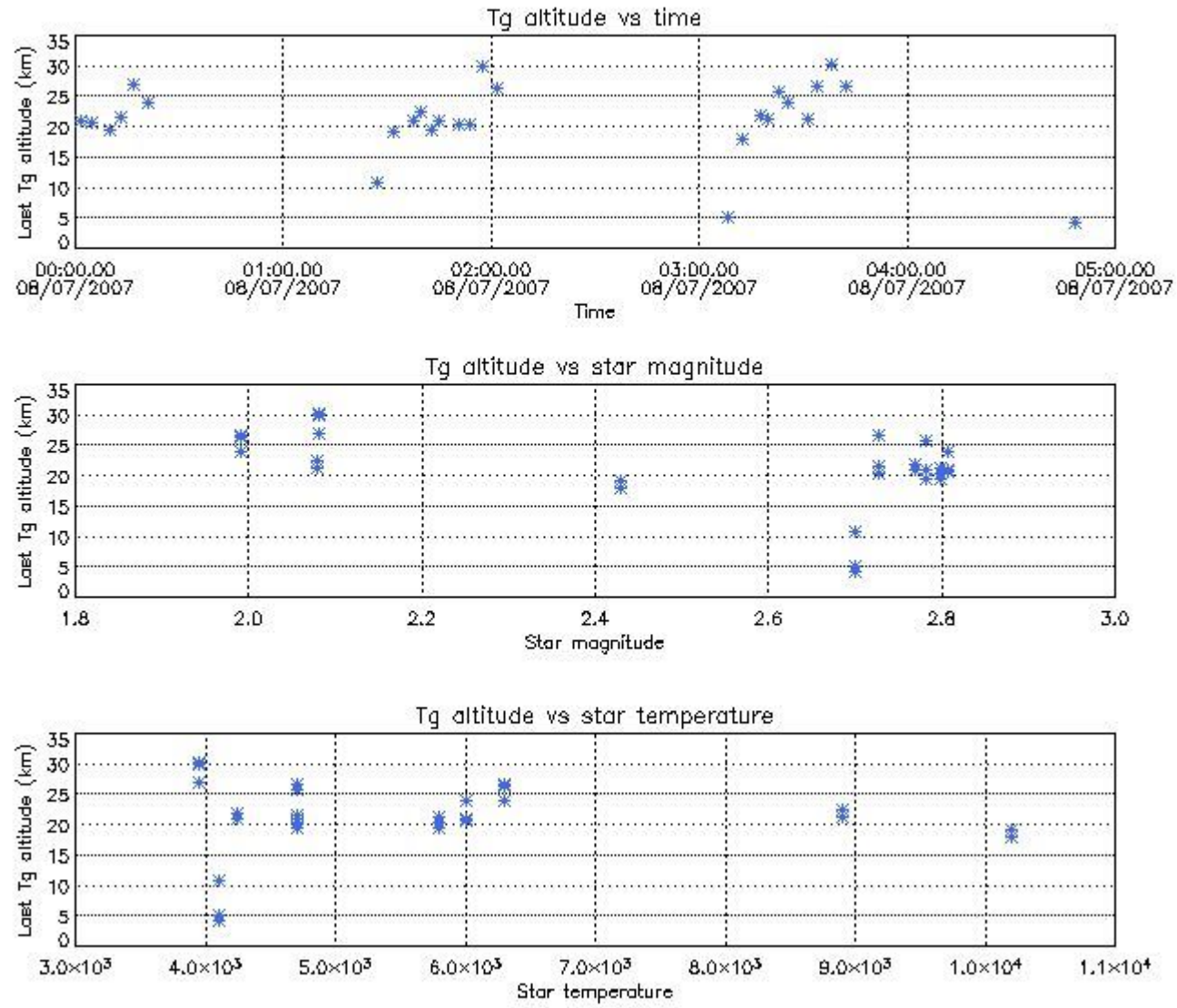
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

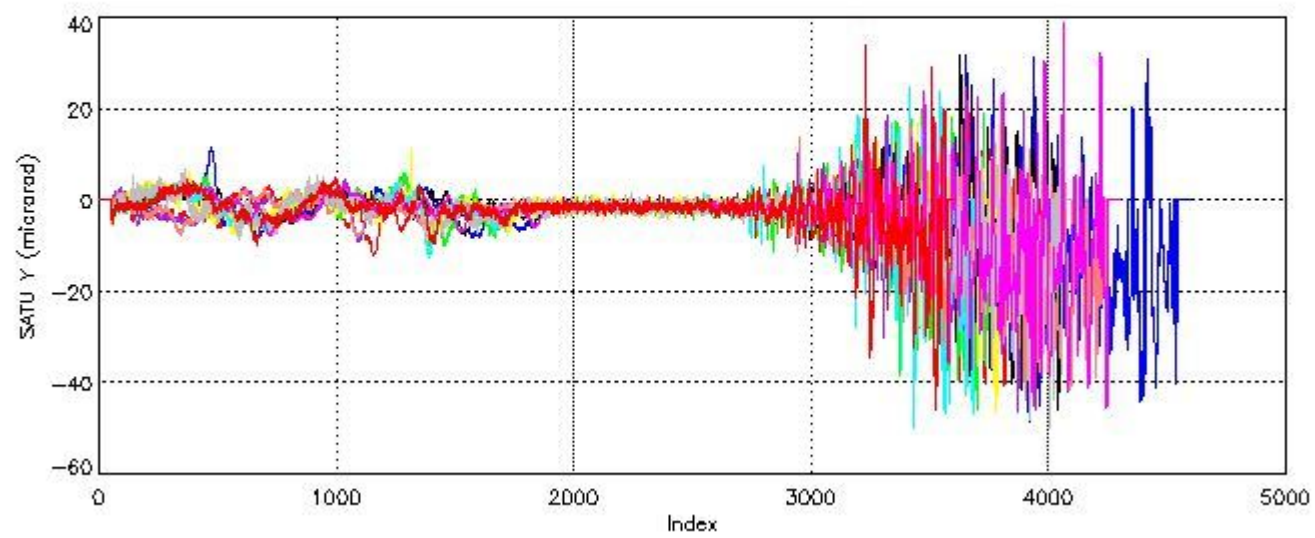
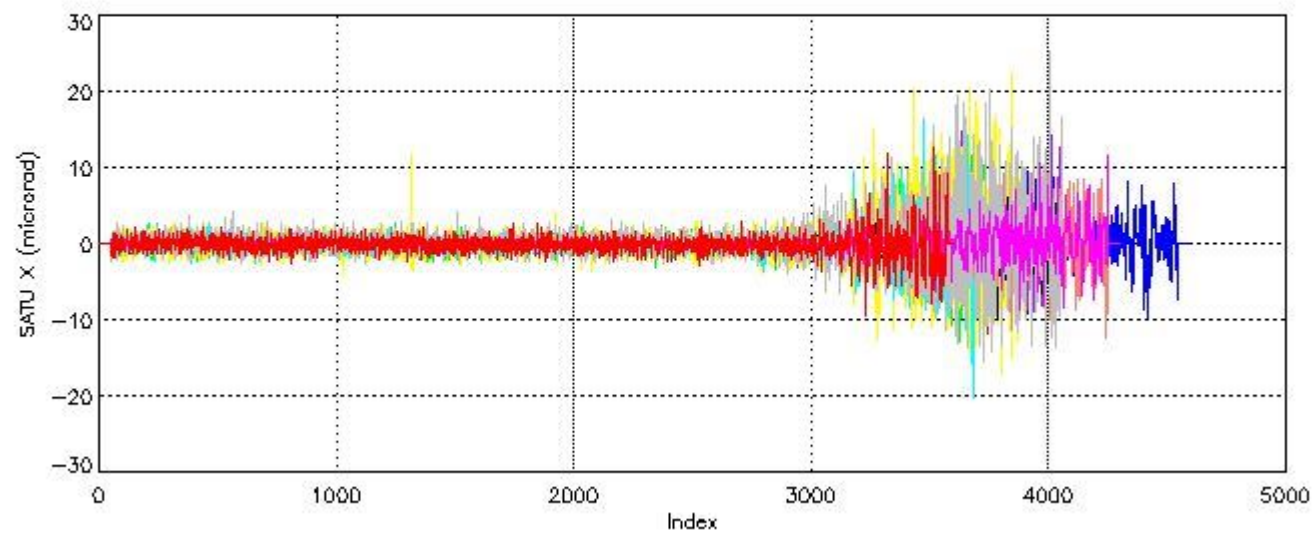


7. Star Acquisition and Tracking Unit (SATU)

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:	0.043667	-1.2937	0.044155	-1.1570
St. deviation:	0.53891	2.5209	0.66553	2.5522
Maximum:	4.1000	11.600	3.9000	5.5000
Minimum:	-3.0000	-9.8000	-3.4000	-10.100

Number of data:	9900.0	9900.0	22150.	22150.
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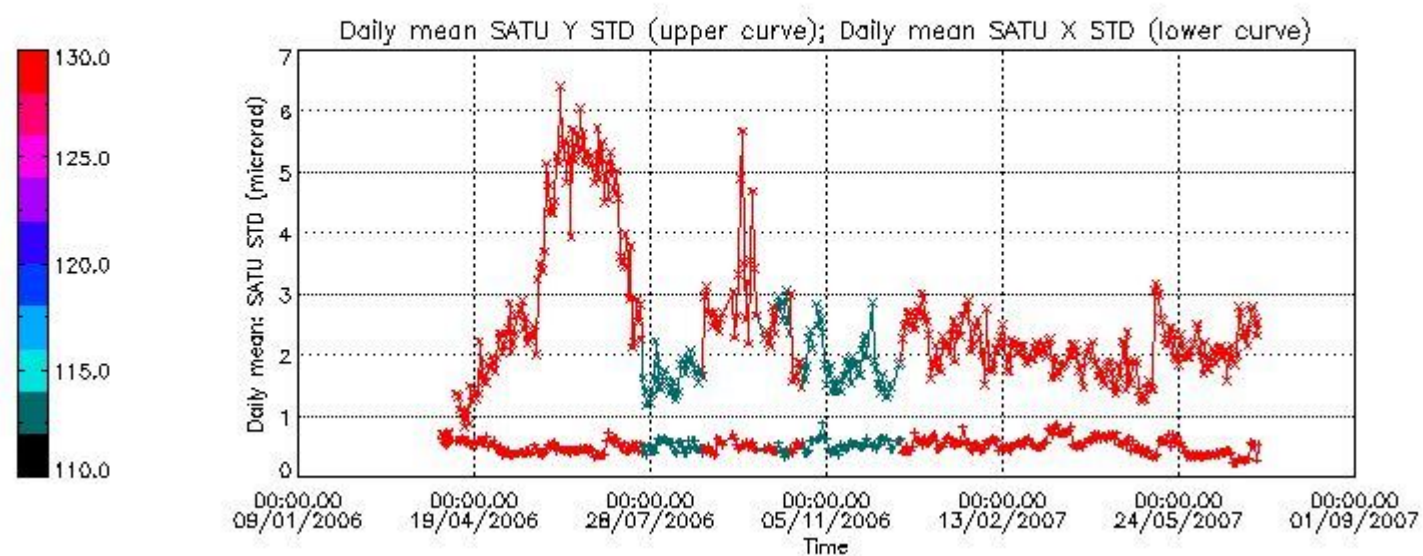
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

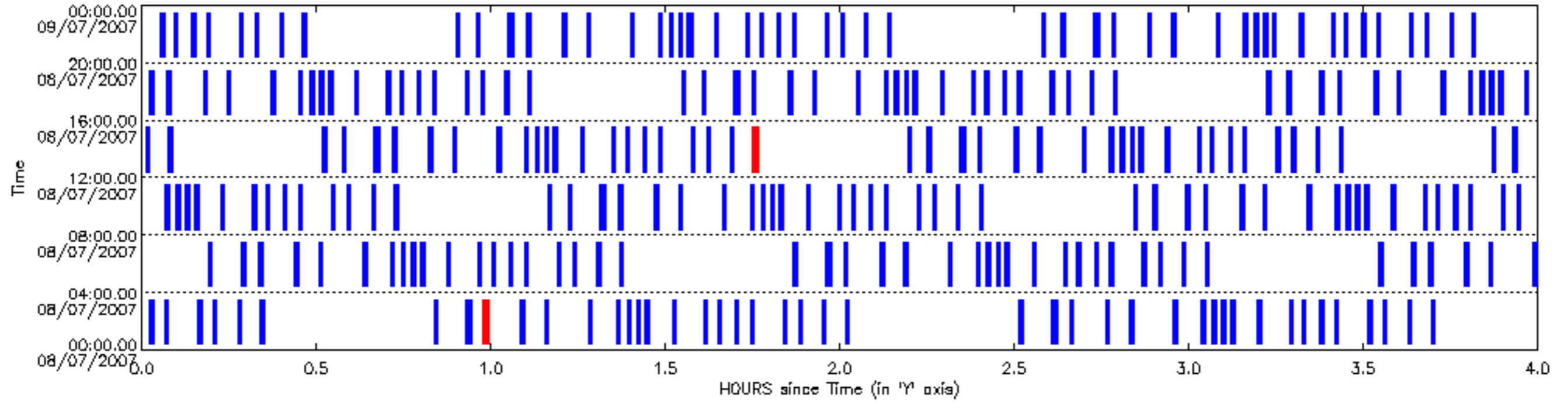
Lower curve: STD of SATU X axis

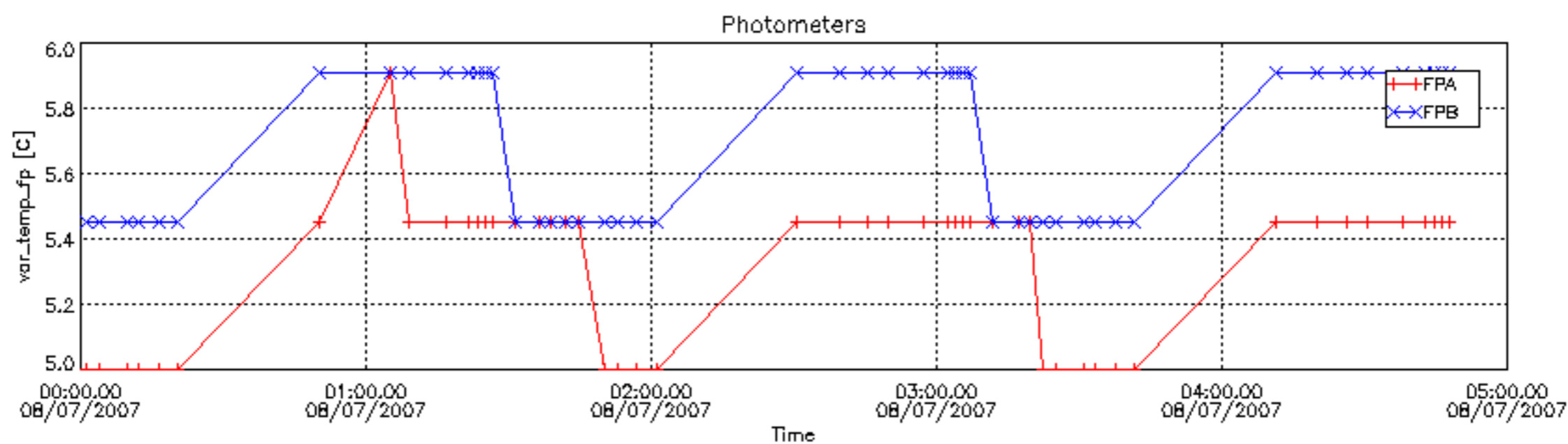
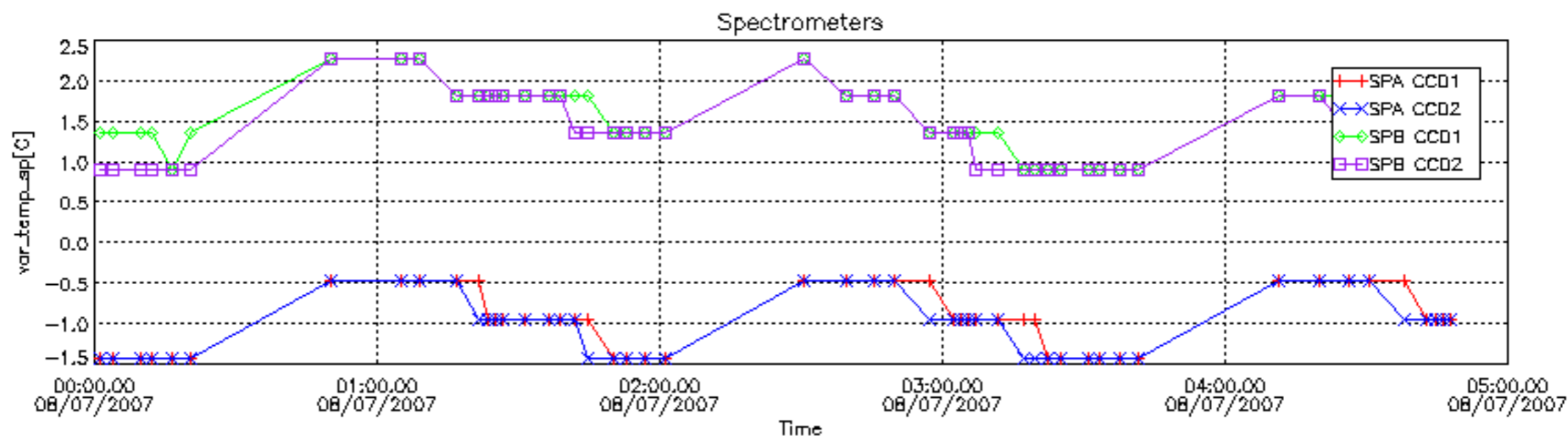


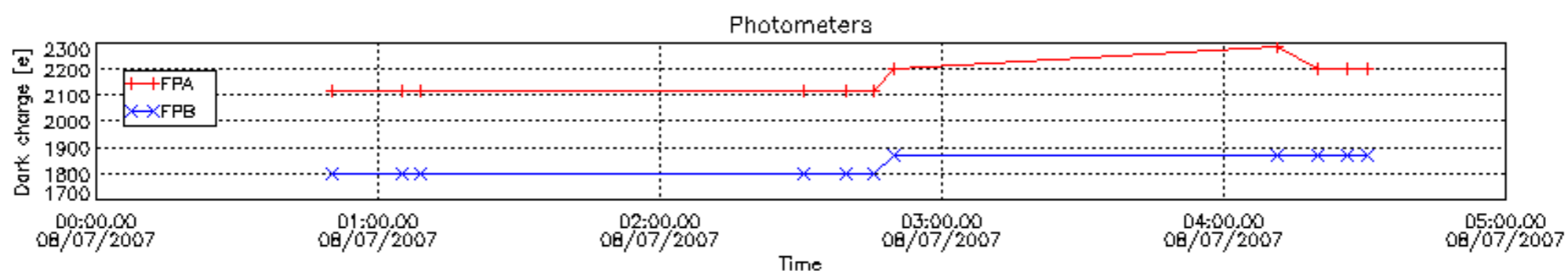
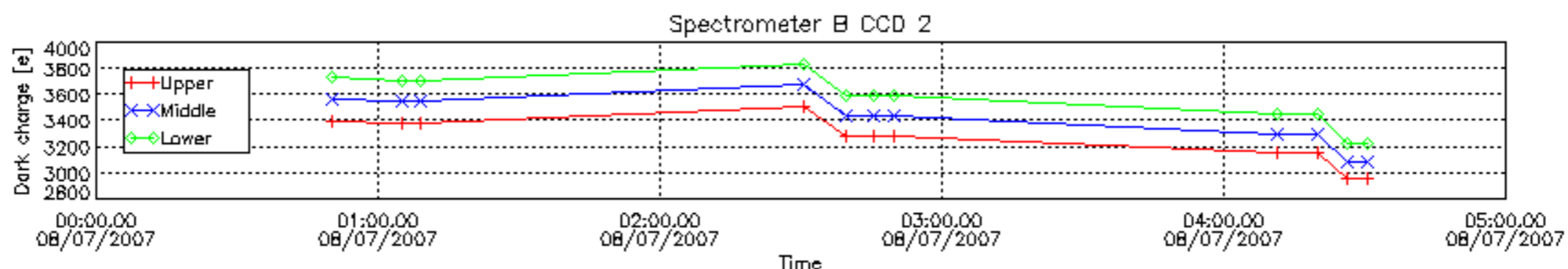
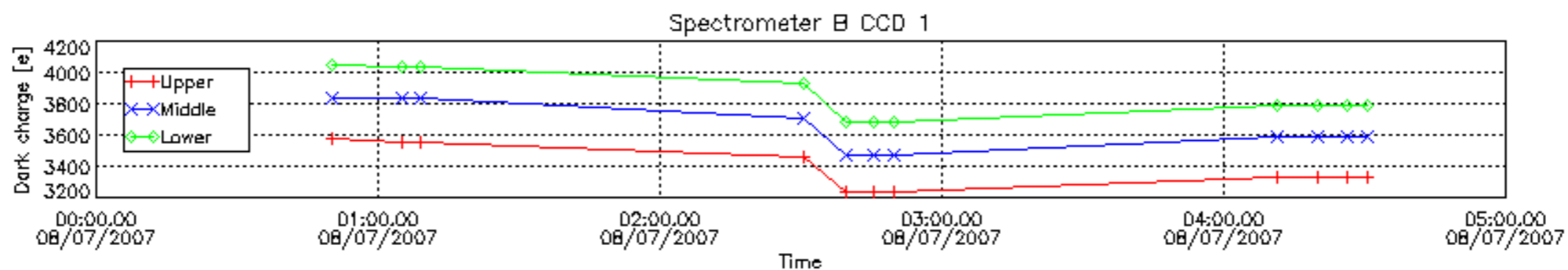
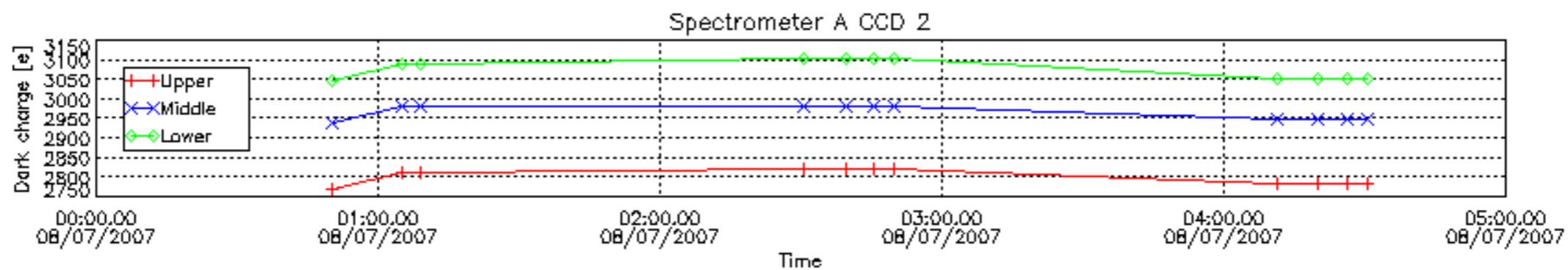
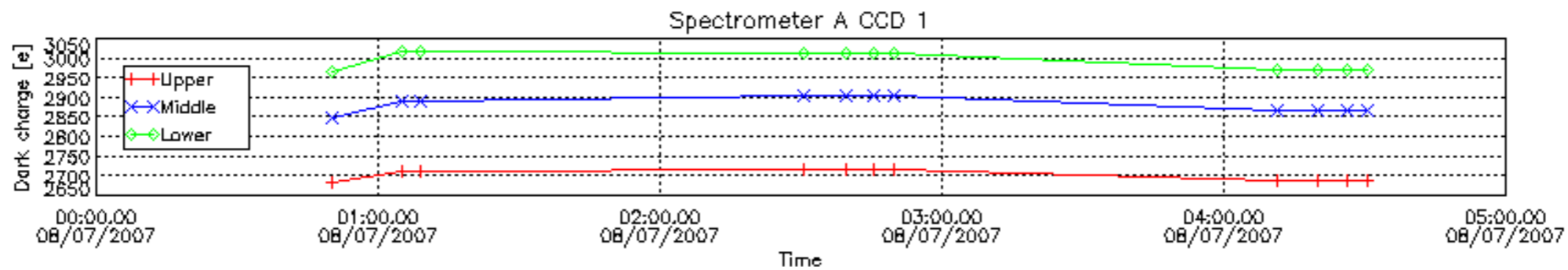
8. Auxiliary Data Files used for the production reported in section 2.4

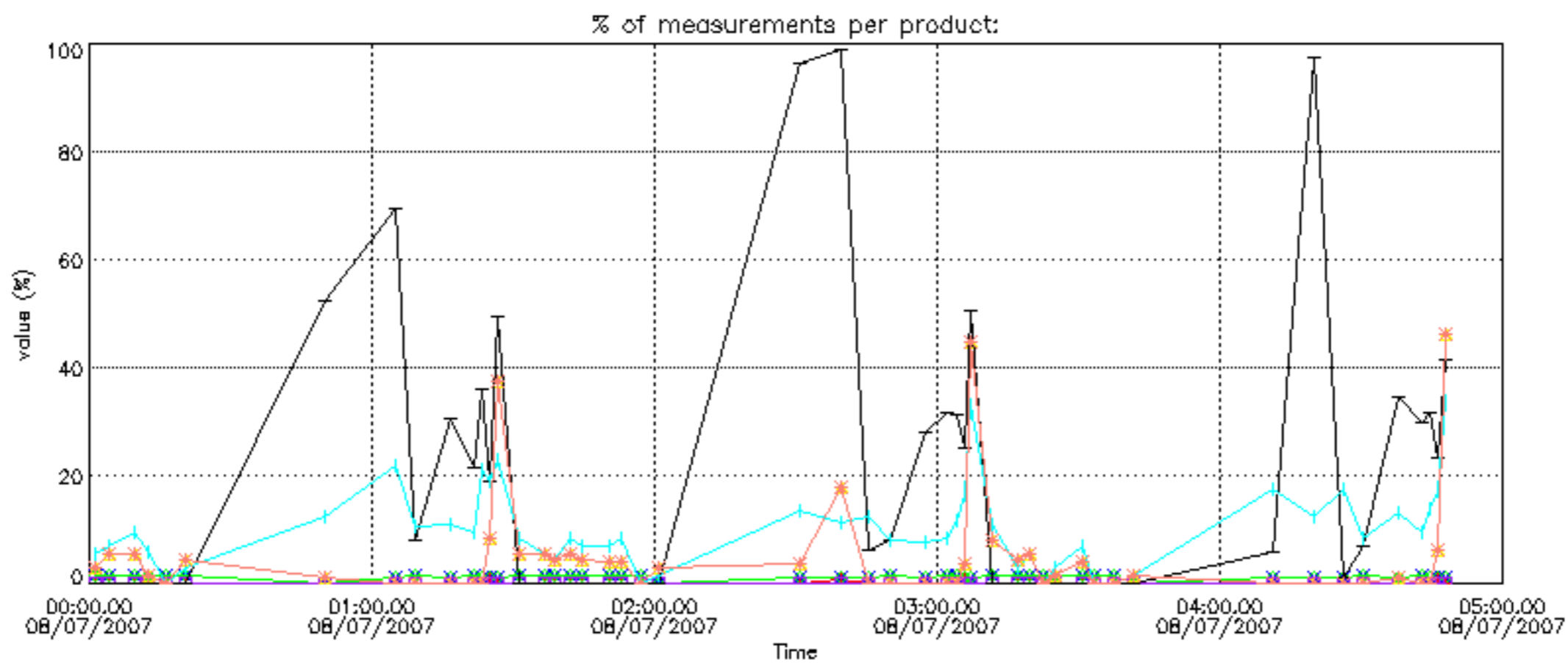
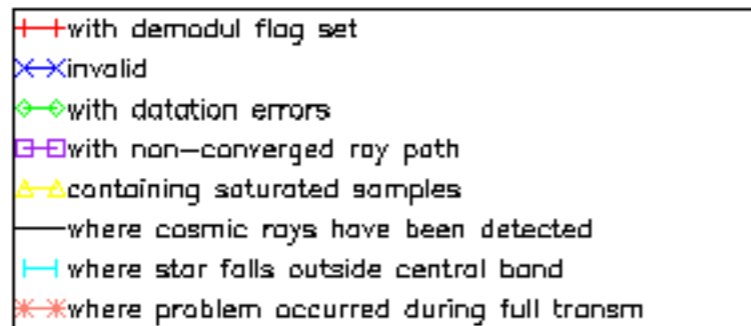
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	08-JUL-2007 00:01:19
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070702_090425_20070701_000000_20100101_000000	1	08-JUL-2007 00:01:19
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	08-JUL-2007 00:01:19
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	08-JUL-2007 00:01:19
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	08-JUL-2007 00:01:19
ECMWF_FILE	AUX_ECF_AXNECM20070707_062110_20070707_210000_20070708_090000	1	08-JUL-2007 00:01:19
ECMWF_FILE	AUX_ECF_AXNECM20070707_182111_20070708_030000_20070708_150000	42	08-JUL-2007 04:11:22
OPTIONAL_ECMWF_FILE	MISSING	1	08-JUL-2007 00:01:19
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070707_212513_000057382059_00372_27981_3731.N1	1	08-JUL-2007 00:01:19
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070707_230610_000057382059_00373_27982_3732.N1	8	08-JUL-2007 01:05:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070708_004707_000041442059_00374_27983_3733.N1	24	08-JUL-2007 02:30:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070708_020131_000057382059_00375_27984_3734.N1	42	08-JUL-2007 04:11:22

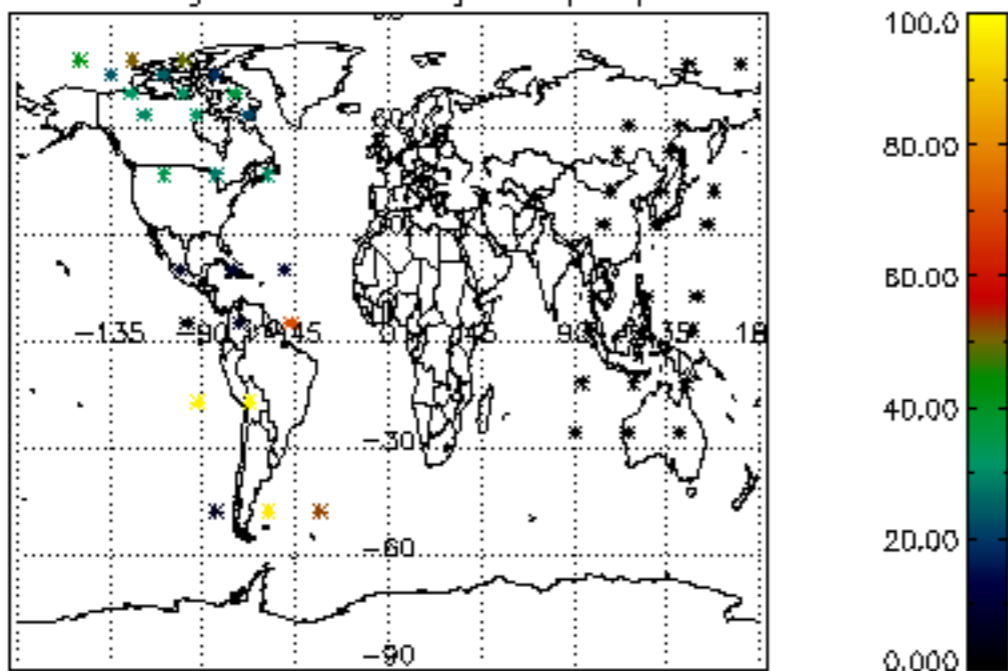




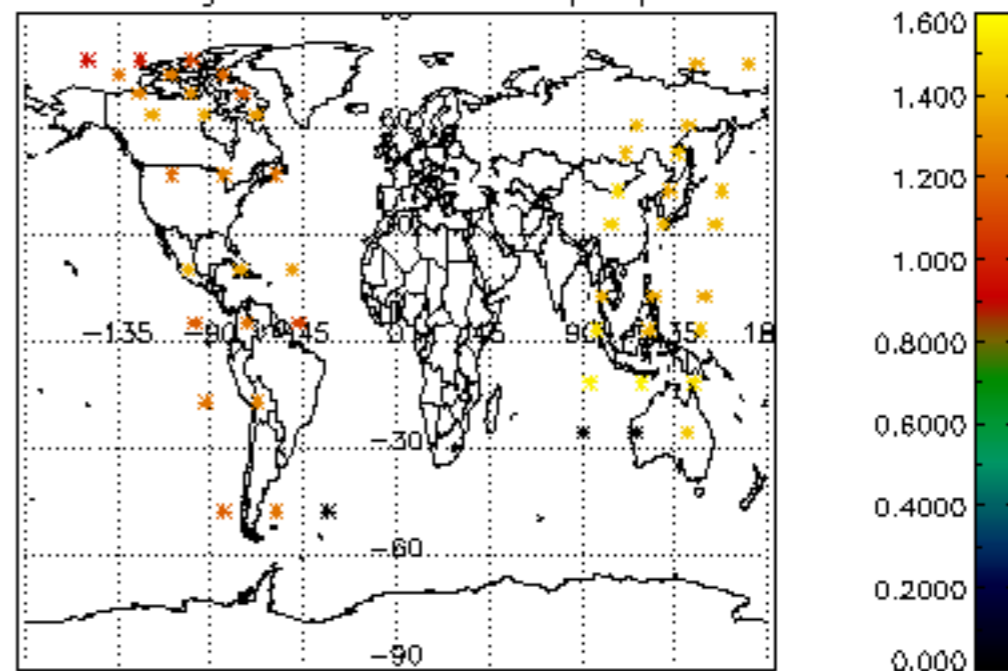




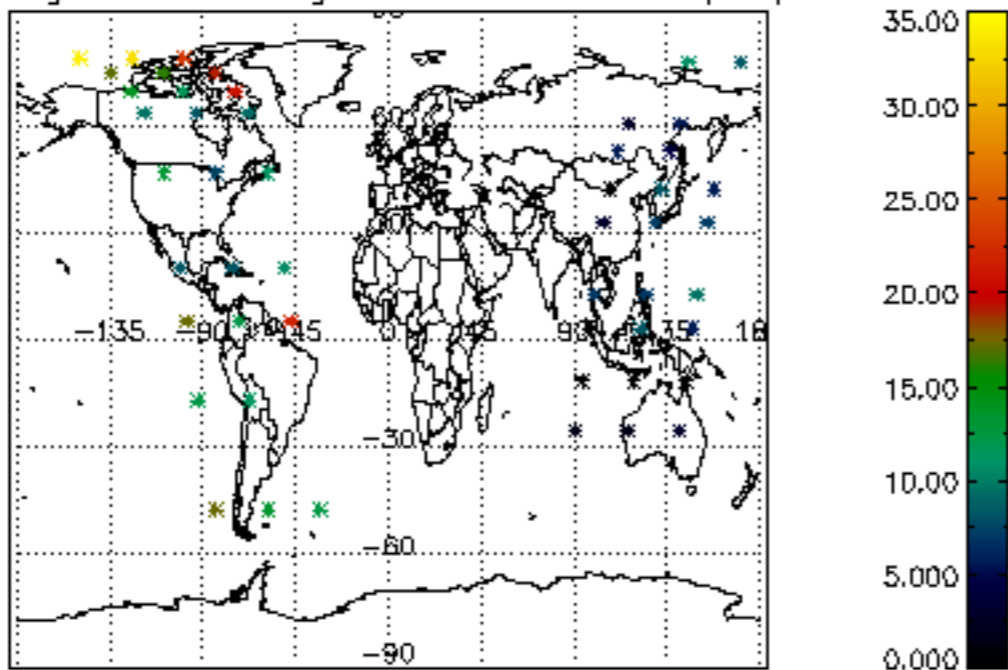
Percentage of cosmic ray hits per profile



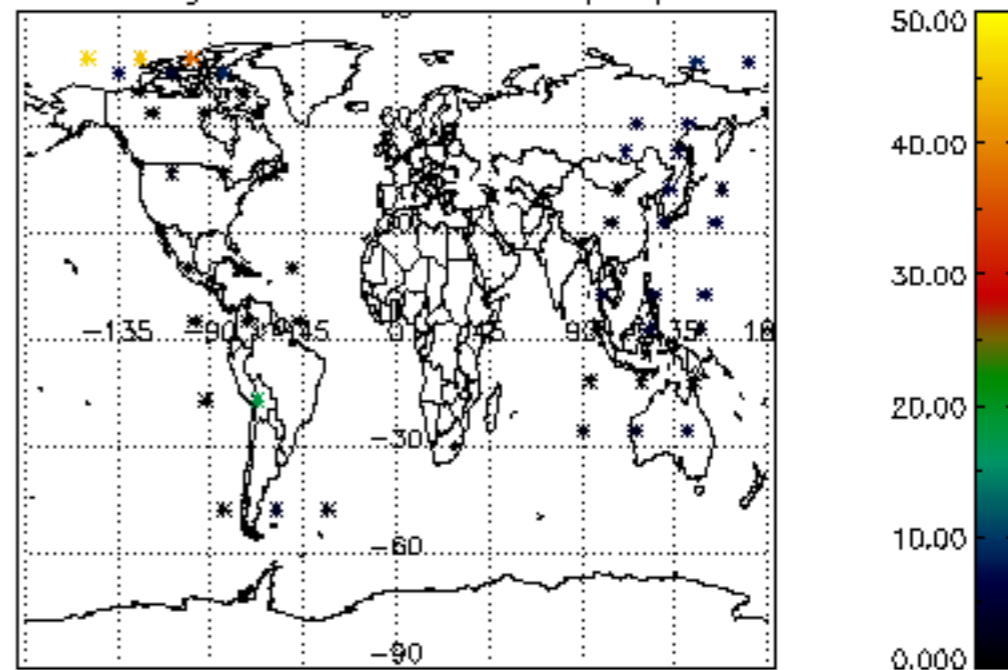
Percentage of datation errors per profile



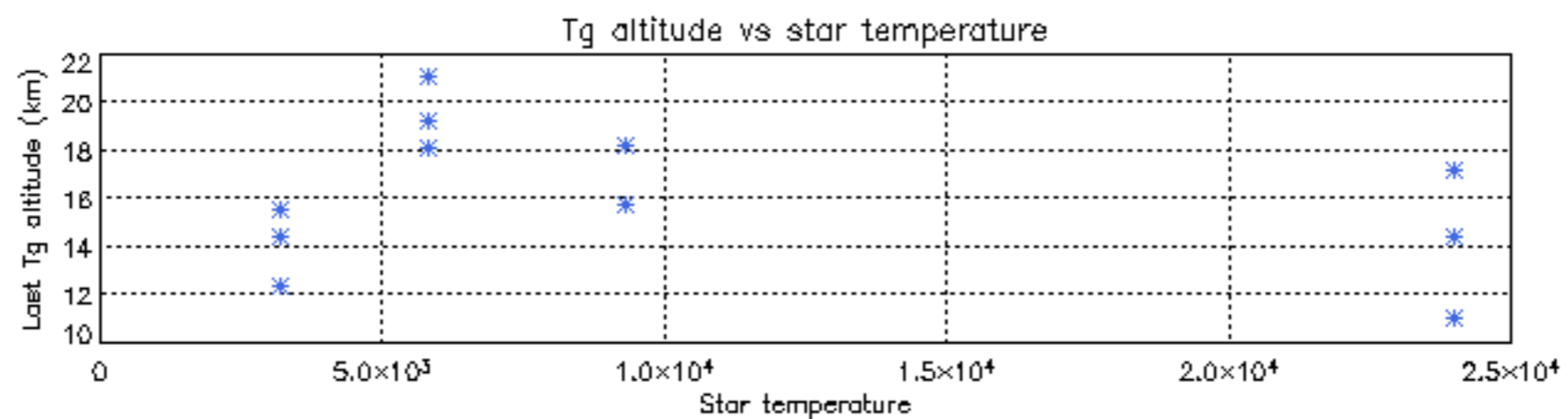
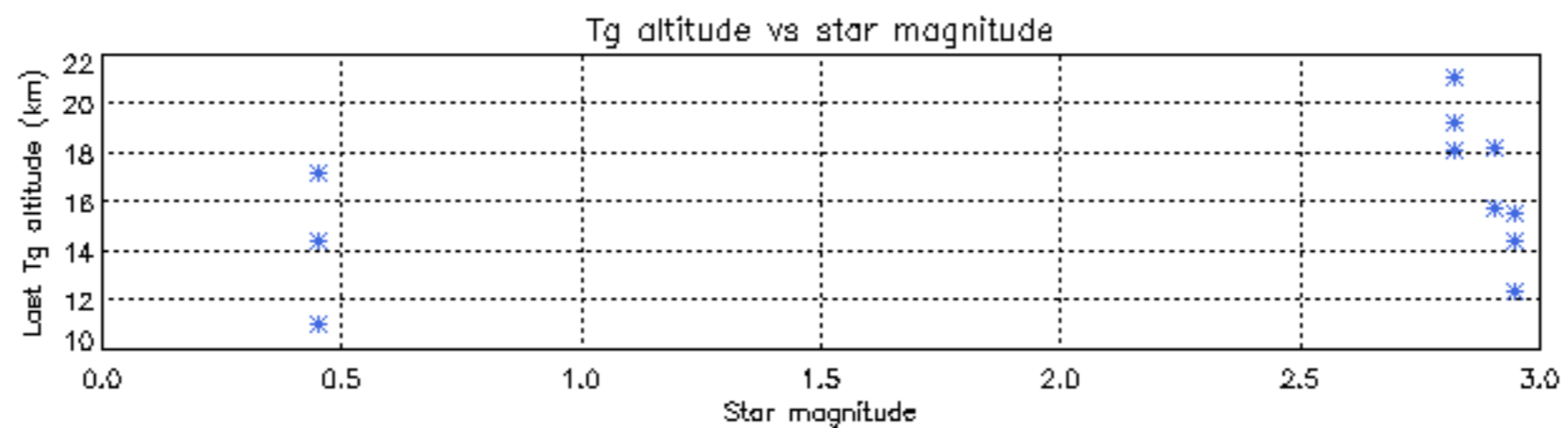
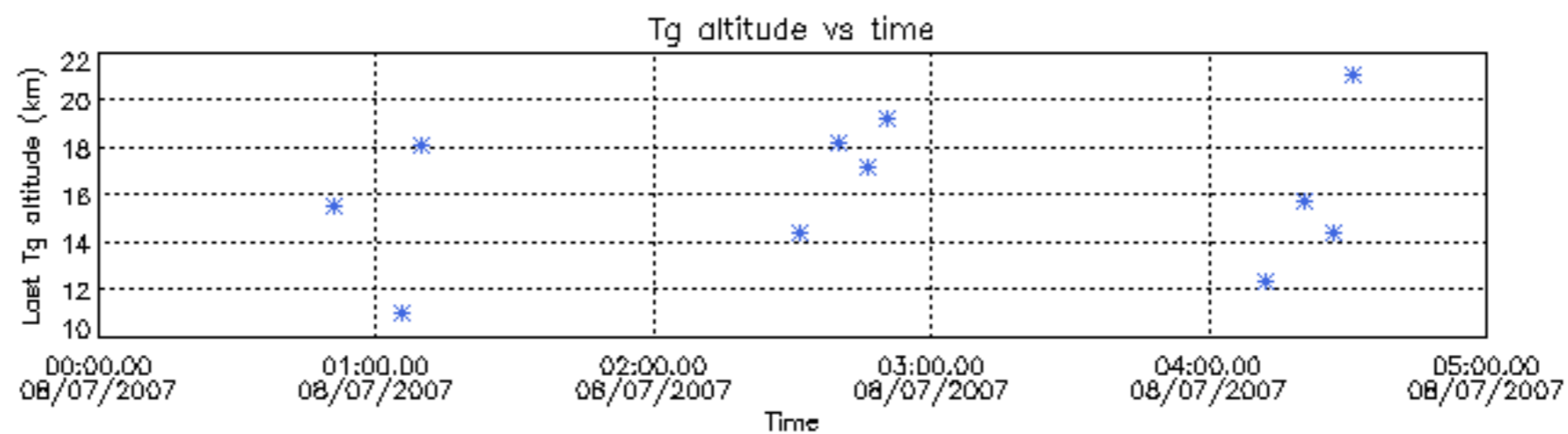
Percentage of star falling outside central band per profile



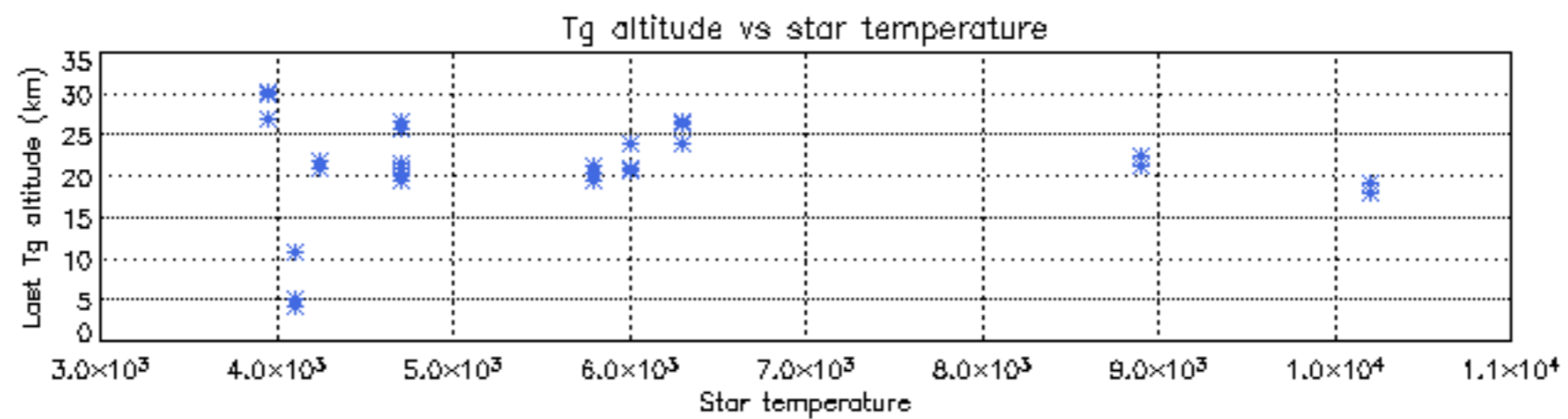
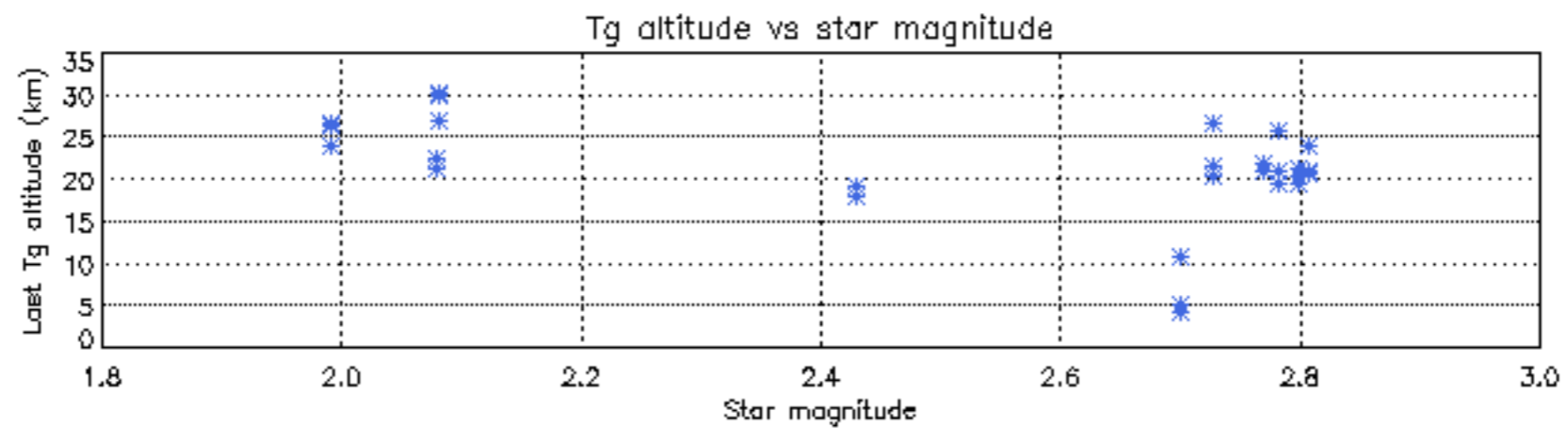
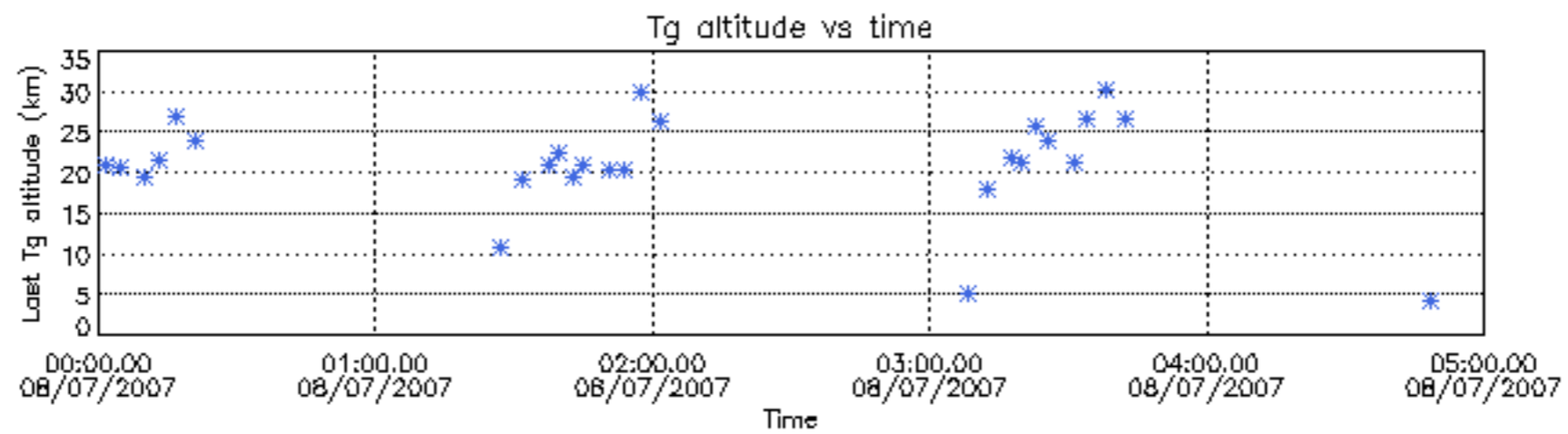
Percentage of saturation errors per profile

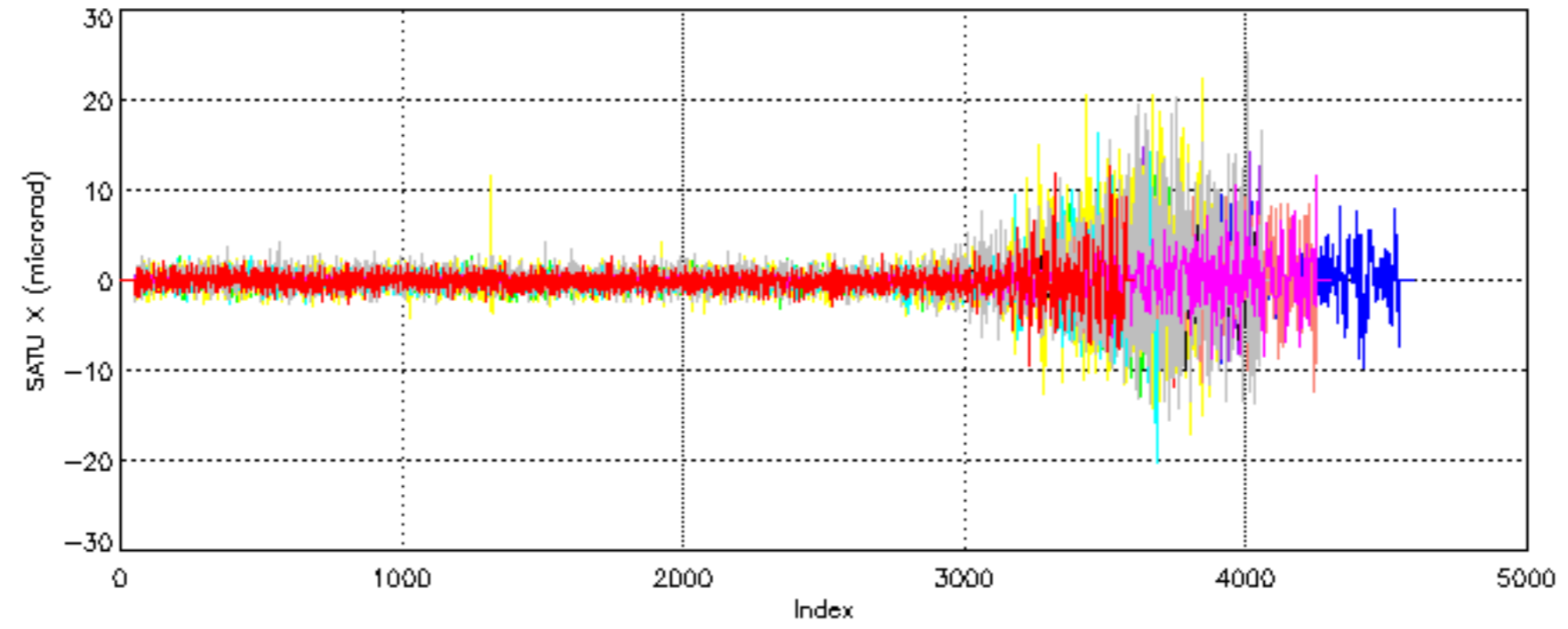


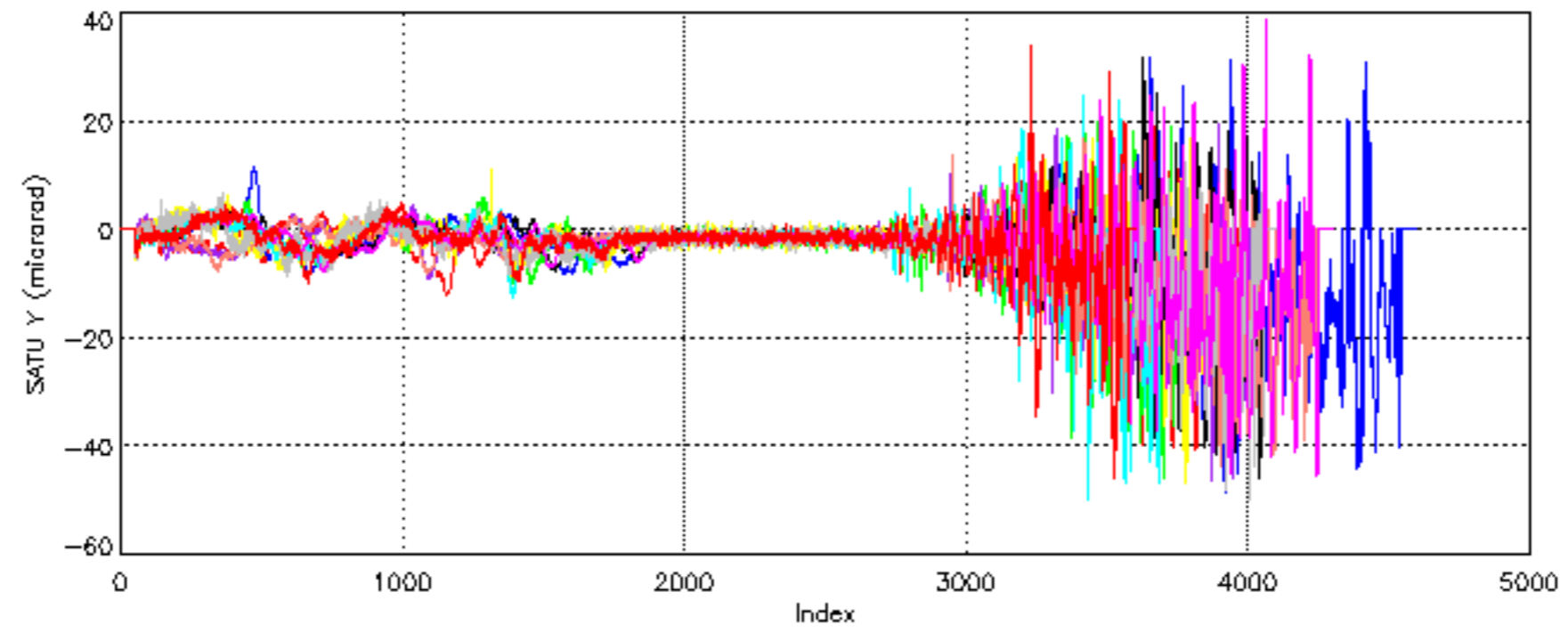
Tangent altitude at which the star is lost

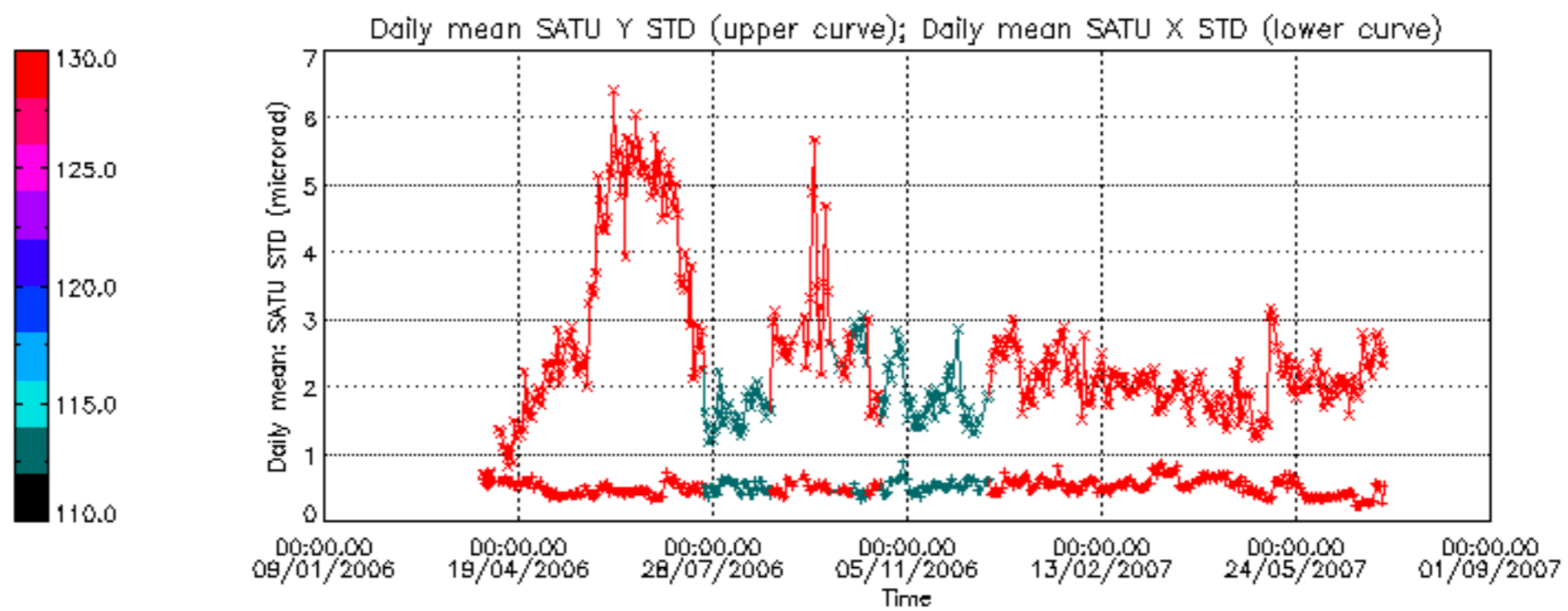


Tangent altitude at which the star is lost









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 18; 7480.2; 19-JUL-2007 09:04:39; Bright; 40.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 80; 0;28145
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14; 6228.8; 20-JUL-2007 13:13:58; Dark ; 39.0; 9; Alp Eri ; 0.45; 24000;occ; 78; 0;28162
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16; 6673.2; 20-JUL-2007 13:21:23; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;28162
17; 6895.7; 20-JUL-2007 13:25:05; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;28162
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19; 7483.1; 20-JUL-2007 13:34:52; Bright; 37.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 75; 0;28162
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 4; 3014.3; 27-JUL-2007 10:19:41; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;28261
 5; 3267.0; 27-JUL-2007 10:23:53; Bright; 33.5; 60; 7Bet UMi ; 2.08; 3950;occ; 67; 0;28261
 6; 3442.0; 27-JUL-2007 10:26:48; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28261
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 9; 5002.2; 27-JUL-2007 10:52:49; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;28261
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 13; 5686.9; 27-JUL-2007 11:04:13; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28261
 14; 6266.2; 27-JUL-2007 11:13:53; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;28261
 15; 6443.4; 27-JUL-2007 11:16:50; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;28261
 16; 6721.7; 27-JUL-2007 11:21:28; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;28261
 17; 6927.3; 27-JUL-2007 11:24:54; Dark ; 38.0; 45; Alp Pav ; 1.94; 26000;occ; 76; 0;28261
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4; 3027.0; 30-JUL-2007 08:45:03; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;28303
5; 3278.0; 30-JUL-2007 08:49:14; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;28303
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 7; 3441.4; 30-JUL-2007 13:53:45; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28306
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19; 6743.1; 30-JUL-2007 16:29:22; Dark ; 40.0; 148; Alp Tuc ; 2.88; 4100;occ; 80; 0;28307
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6; 3441.3; 31-JUL-2007 13:22:07; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28320
7; 4211.3; 31-JUL-2007 13:34:57; Bright; 42.5; 42; 34Bet Aur ; 1.90; 10200;occ; 85; 0;28320
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9; 4855.8; 31-JUL-2007 13:45:42; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;28320
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11; 5167.0; 31-JUL-2007 13:50:53; Dark ; 40.0; 7; 19Bet Ori ; 0.10; 14000;occ; 80; 0;28320
12; 5253.3; 31-JUL-2007 13:52:19; Dark ; 38.5; 47; 2Bet CMa ; 1.98; 28000;occ; 77; 0;28320
13; 5352.6; 31-JUL-2007 13:53:59; Dark ; 40.5; 139; 9Bet Lep ; 2.83; 5600;occ; 81; 0;28320
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11; 5020.5; 31-JUL-2007 15:29:03; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;28321
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14; 5353.0; 31-JUL-2007 15:34:35; Dark ; 41.5; 139; 9Bet Lep ; 2.83; 5600;occ; 83; 0;28321
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