

GOMOS Daily Report 10-JUL-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	12JUL2007 13:32:20
Data source version	GOMOS/5.00
Start time of products	10-07-2007 (10JUL2007 00:00:00)
Stop time of products	11-07-2007 (11JUL2007 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)

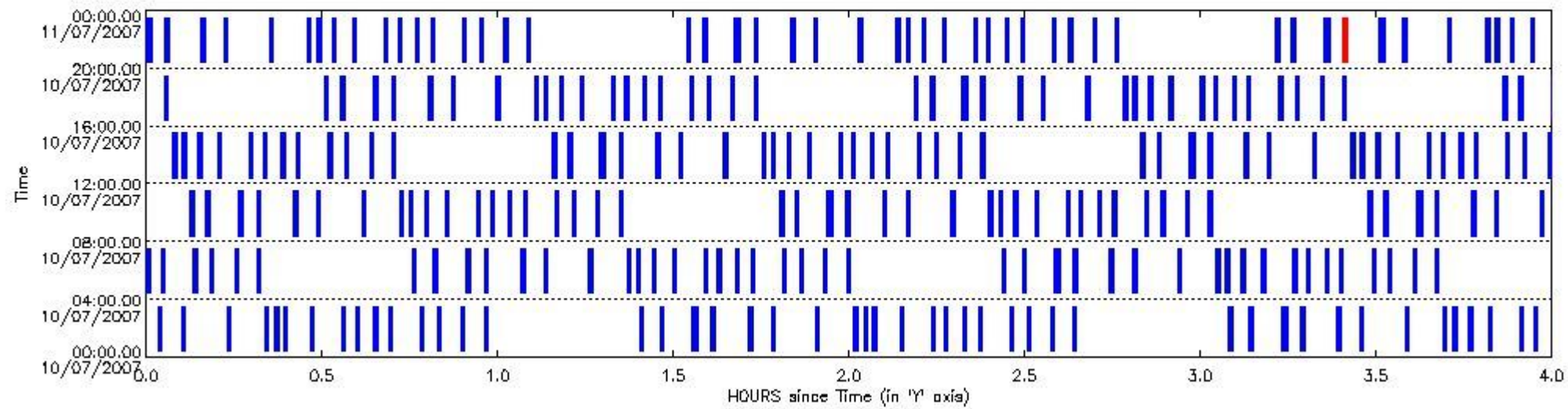
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

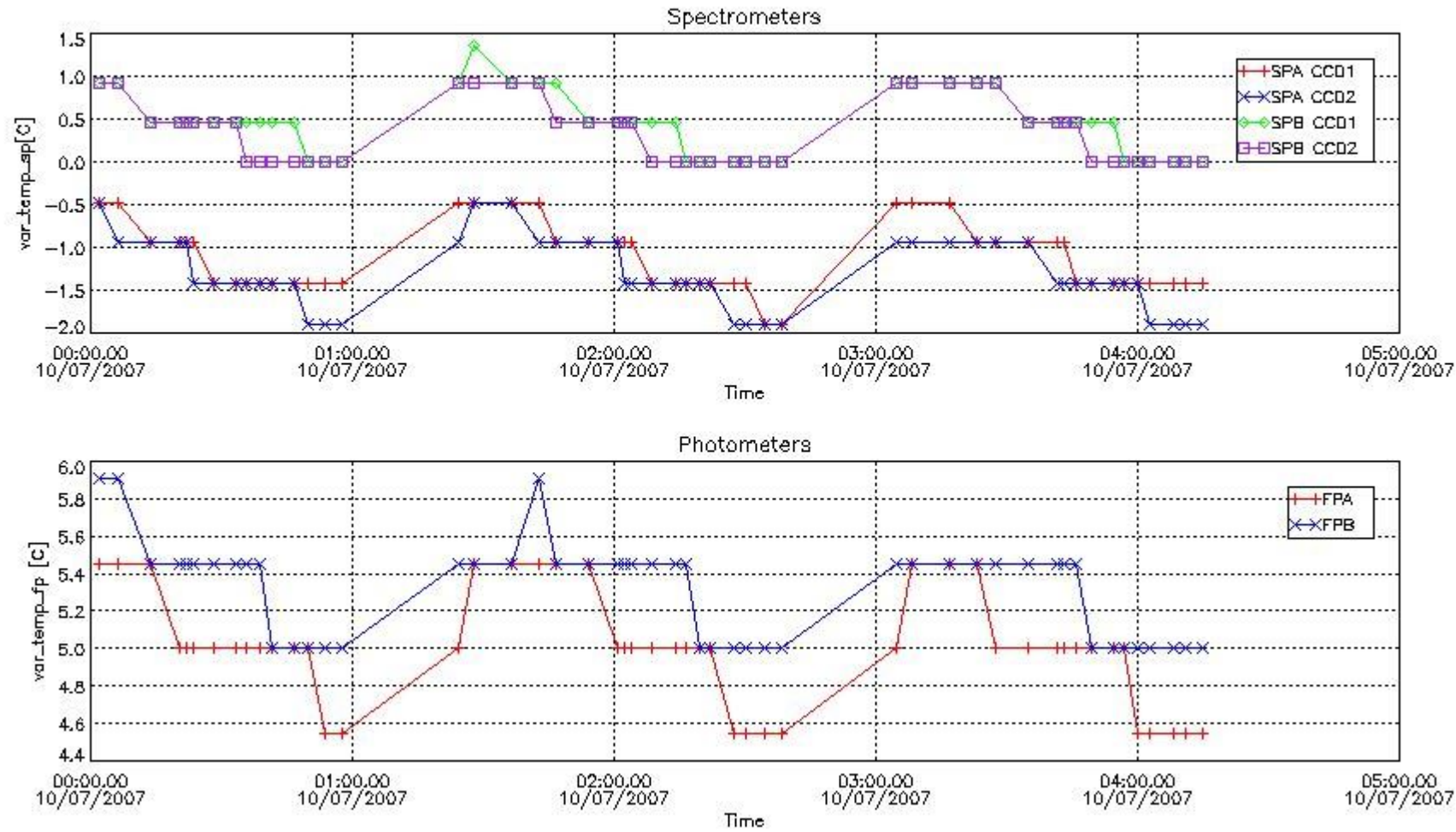
UTC start time	Star name	Star ID	Orbit
10-JUL-2007 23:24:12	The1Eri	157	28025

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_1PNPDE20070710_000201_000000412059_00403_28012_8648.N1	10-JUL-2007 00:02:01	Dark	41.000	9	Alp Eri	0.45300	24000.	82	28012	No
2	GOM_TRA_1PNPDE20070710_000605_000000362059_00403_28012_8649.N1	10-JUL-2007 00:06:05	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	28012	No
3	GOM_TRA_1PNPDE20070710_001342_000000402059_00403_28012_8650.N1	10-JUL-2007 00:13:42	Straylight	40.000	45	Alp Pav	1.9400	26000.	80	28012	No
4	GOM_TRA_1PNPDE20070710_002014_000000402059_00403_28012_8651.N1	10-JUL-2007 00:20:14	Twilight_stray	39.500	40	The Sco	1.8590	7100.0	79	28012	No
5	GOM_TRA_1PNPDE20070710_002154_000000422059_00403_28012_8652.N1	10-JUL-2007 00:21:54	Twilight_stray	41.500	25	35Lam Sco	1.6200	28000.	83	28012	No
6	GOM_TRA_1PNPDE20070710_002322_000000452059_00403_28012_8653.N1	10-JUL-2007 00:23:22	Bright	45.000	116	19Del Sgr	2.7000	4100.0	90	28012	No
7	GOM_TRA_1PNPDE20070710_002803_000000372059_00403_28012_8654.N1	10-JUL-2007 00:28:03	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	28012	No
8	GOM_TRA_1PNPDE20070710_003326_000000362059_00403_28012_8655.N1	10-JUL-2007 00:33:26	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	28012	No
9	GOM_TRA_1PNPDE20070710_003543_000000352059_00403_28012_8656.N1	10-JUL-2007 00:35:43	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	28012	No
10	GOM_TRA_1PNPDE20070710_003848_000000382059_00403_28012_8657.N1	10-JUL-2007 00:38:48	Bright	38.000	127	27Bet Her	2.7810	4700.0	76	28012	No

11	GOM_TRA_1PNPDE20070710_004124_000000372059_00403_28012_8658.N1	10-JUL-2007 00:41:24	Bright	37.000	133	40Zet Her	2.8070	6000.0	74	28012	No
12	GOM_TRA_1PNPDE20070710_004651_000000342059_00403_28012_8659.N1	10-JUL-2007 00:46:51	Bright	33.500	69	33Gam Dra	2.2310	3800.0	67	28012	No
13	GOM_TRA_1PNPDE20070710_004942_000000372059_00403_28012_8660.N1	10-JUL-2007 00:49:42	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	28012	No
14	GOM_TRA_1PNPDE20070710_005351_000000312059_00403_28012_8661.N1	10-JUL-2007 00:53:51	Bright	31.000	60	7Bet UMi	2.0810	3950.0	62	28012	No
15	GOM_TRA_1PNPDE20070710_005744_000000352059_00403_28012_8662.N1	10-JUL-2007 00:57:44	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	28012	No
16	GOM_TRA_1PNPDE20070710_012414_000000382059_00403_28012_8663.N1	10-JUL-2007 01:24:14	Dark	38.000	128	67Bet Eri	2.7840	9700.0	76	28012	No
17	GOM_TRA_1PNPDE20070710_012742_000000412059_00403_28012_8774.N1	10-JUL-2007 01:27:42	Dark	40.500	165	34Gam Eri	2.9500	3200.0	81	28012	No
18	GOM_TRA_1PNPDE20070710_013627_000000412059_00403_28012_8775.N1	10-JUL-2007 01:36:27	Dark	41.000	157	The1Eri	2.9060	9300.0	82	28012	No
19	GOM_TRA_1PNPDE20070710_014238_000000522059_00404_28013_8776.N1	10-JUL-2007 01:42:38	Dark	51.500	9	Alp Eri	0.45300	24000.	103	28013	No
20	GOM_TRA_1PNPDE20070710_014641_000000372059_00404_28013_8777.N1	10-JUL-2007 01:46:41	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	28013	No
21	GOM_TRA_1PNPDE20070710_015418_000000392059_00404_28013_8778.N1	10-JUL-2007 01:54:18	Straylight	39.000	45	Alp Pav	1.9400	26000.	78	28013	No
22	GOM_TRA_1PNPDE20070710_020050_000000402059_00404_28013_8779.N1	10-JUL-2007 02:00:50	Twilight_stray	39.500	40	The Sco	1.8590	7100.0	79	28013	No
23	GOM_TRA_1PNPDE20070710_020230_000000402059_00404_28013_8780.N1	10-JUL-2007 02:02:30	Twilight_stray	40.000	25	35Lam Sco	1.6200	28000.	80	28013	No
24	GOM_TRA_1PNPDE20070710_020358_000000482059_00404_28013_8781.N1	10-JUL-2007 02:03:58	Bright	48.000	116	19Del Sgr	2.7000	4100.0	96	28013	No
25	GOM_TRA_1PNPDE20070710_020839_000000372059_00404_28013_8782.N1	10-JUL-2007 02:08:39	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	28013	No
26	GOM_TRA_1PNPDE20070710_021401_000000362059_00404_28013_8783.N1	10-JUL-2007 02:14:01	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	28013	No
27	GOM_TRA_1PNPDE20070710_021619_000000362059_00404_28013_8784.N1	10-JUL-2007 02:16:19	Bright	35.500	59	55Alp Oph	2.0800	8900.0	71	28013	No
28	GOM_TRA_1PNPDE20070710_021924_000000362059_00404_28013_8785.N1	10-JUL-2007 02:19:24	Bright	36.000	127	27Bet Her	2.7810	4700.0	72	28013	No
29	GOM_TRA_1PNPDE20070710_022200_000000352059_00404_28013_8786.N1	10-JUL-2007 02:22:00	Bright	34.500	133	40Zet Her	2.8070	6000.0	69	28013	No
30	GOM_TRA_1PNPDE20070710_022727_000000392059_00404_28013_8787.N1	10-JUL-2007 02:27:27	Bright	39.000	69	33Gam Dra	2.2310	3800.0	78	28013	No
31	GOM_TRA_1PNPDE20070710_023018_000000352059_00404_28013_8788.N1	10-JUL-2007 02:30:18	Bright	35.000	119	14Eta Dra	2.7270	4700.0	70	28013	No
32	GOM_TRA_1PNPDE20070710_023428_000000322059_00404_28013_8789.N1	10-JUL-2007 02:34:28	Bright	32.000	60	7Bet UMi	2.0810	3950.0	64	28013	No
33	GOM_TRA_1PNPDE20070710_023820_000000332059_00404_28013_8790.N1	10-JUL-2007 02:38:20	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	28013	No
34	GOM_TRA_1PNPDE20070710_030450_000000352059_00404_28013_8941.N1	10-JUL-2007 03:04:50	Dark	34.500	128	67Bet Eri	2.7840	9700.0	69	28013	No
35	GOM_TRA_1PNPDE20070710_030818_000000422059_00404_28013_8942.N1	10-JUL-2007 03:08:18	Dark	41.500	165	34Gam Eri	2.9500	3200.0	83	28013	No
36	GOM_TRA_1PNPDE20070710_031703_000000422059_00404_28013_8943.N1	10-JUL-2007 03:17:03	Dark	42.000	157	The1Eri	2.9060	9300.0	84	28013	No
37	GOM_TRA_1PNPDE20070710_032314_000000432059_00405_28014_8944.N1	10-JUL-2007 03:23:14	Dark	42.500	9	Alp Eri	0.45300	24000.	85	28014	No
38	GOM_TRA_1PNPDE20070710_032717_000000372059_00405_28014_8945.N1	10-JUL-2007 03:27:17	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	28014	No
39	GOM_TRA_1PNPDE20070710_033454_000000412059_00405_28014_8946.N1	10-JUL-2007 03:34:54	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	28014	No
40	GOM_TRA_1PNPDE20070710_034126_000000392059_00405_28014_8947.N1	10-JUL-2007 03:41:26	Twilight_stray	39.000	40	The Sco	1.8590	7100.0	78	28014	No
41	GOM_TRA_1PNPDE20070710_034306_000000402059_00405_28014_8948.N1	10-JUL-2007 03:43:06	Twilight_stray	39.500	25	35Lam Sco	1.6200	28000.	79	28014	No
42	GOM_TRA_1PNPDE20070710_034544_000000412059_00405_28014_8949.N1	10-JUL-2007 03:45:44	Bright	40.500	137	22Lam Sgr	2.8240	4400.0	81	28014	No
43	GOM_TRA_1PNPDE20070710_034915_000000372059_00405_28014_8950.N1	10-JUL-2007 03:49:15	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	28014	No
44	GOM_TRA_1PNPDE20070710_035438_000000362059_00405_28014_8951.N1	10-JUL-2007 03:54:38	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	28014	No
45	GOM_TRA_1PNPDE20070710_035655_000000362059_00405_28014_8952.N1	10-JUL-2007 03:56:55	Bright	35.500	59	55Alp Oph	2.0800	8900.0	71	28014	No
46	GOM_TRA_1PNPDE20070710_040001_000000362059_00405_28014_8953.N1	10-JUL-2007 04:00:01	Bright	35.500	127	27Bet Her	2.7810	4700.0	71	28014	No
47	GOM_TRA_1PNPDE20070710_040236_000000372059_00405_28014_8954.N1	10-JUL-2007 04:02:36	Bright	37.000	133	40Zet Her	2.8070	6000.0	74	28014	No
48	GOM_TRA_1PNPDE20070710_040803_000000382059_00405_28014_8955.N1	10-JUL-2007 04:08:03	Bright	37.500	69	33Gam Dra	2.2310	3800.0	75	28014	No
49	GOM_TRA_1PNPDE20070710_041054_000000332059_00405_28014_8956.N1	10-JUL-2007 04:10:54	Bright	32.500	119	14Eta Dra	2.7270	4700.0	65	28014	No
50	GOM_TRA_1PNPDE20070710_041504_000000342059_00405_28014_8957.N1	10-JUL-2007 04:15:04	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	28014	No

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



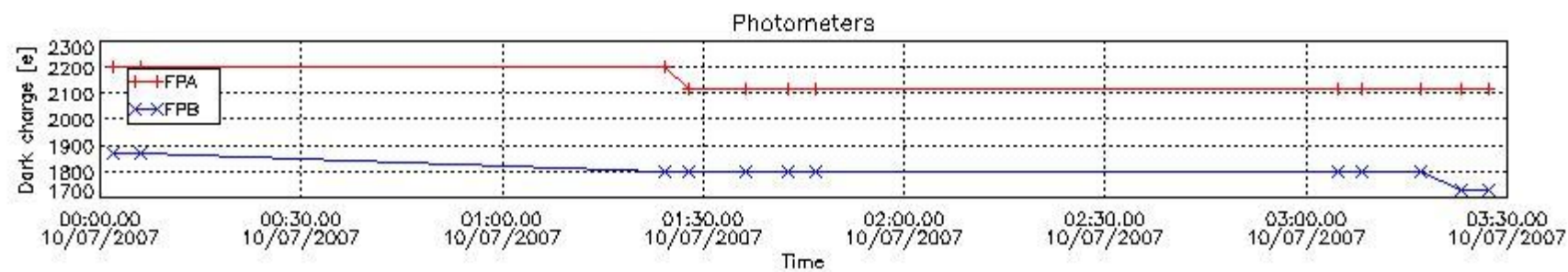
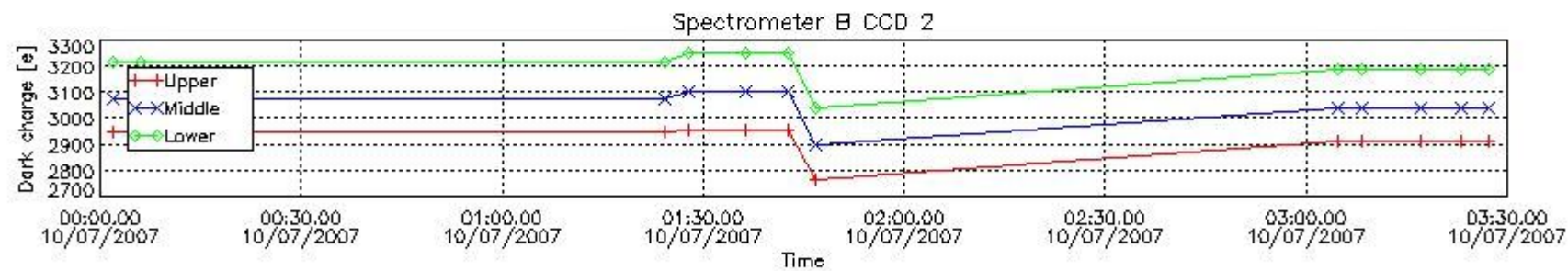
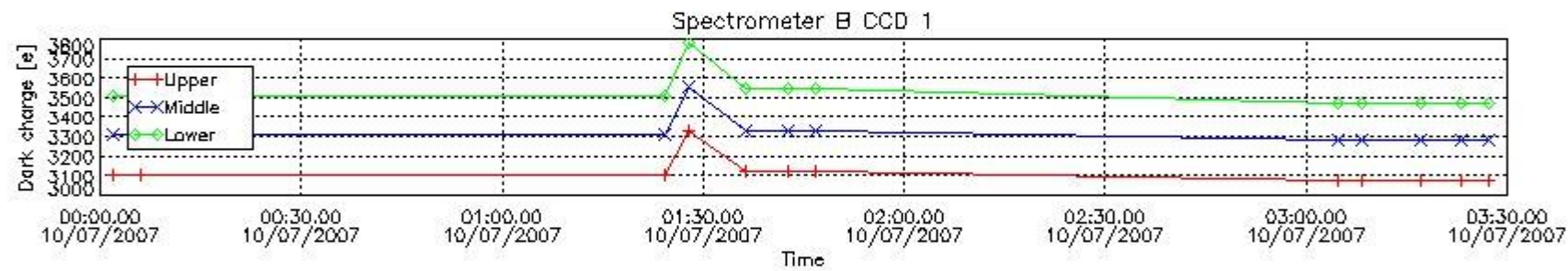
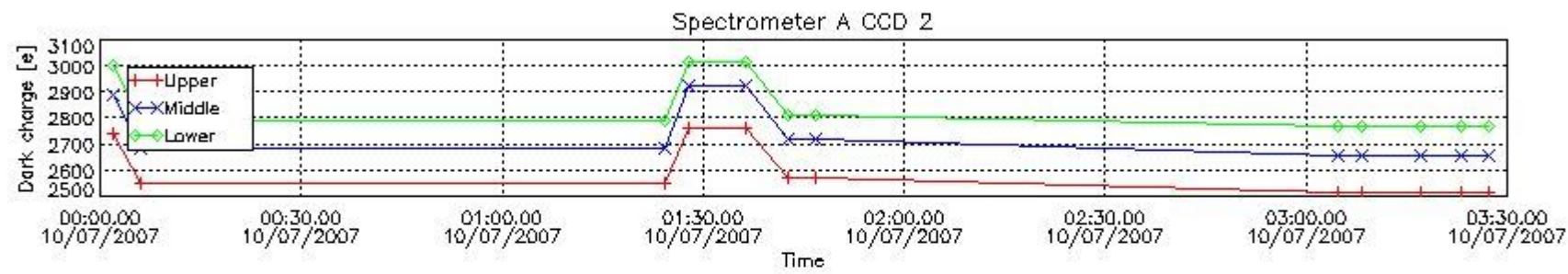
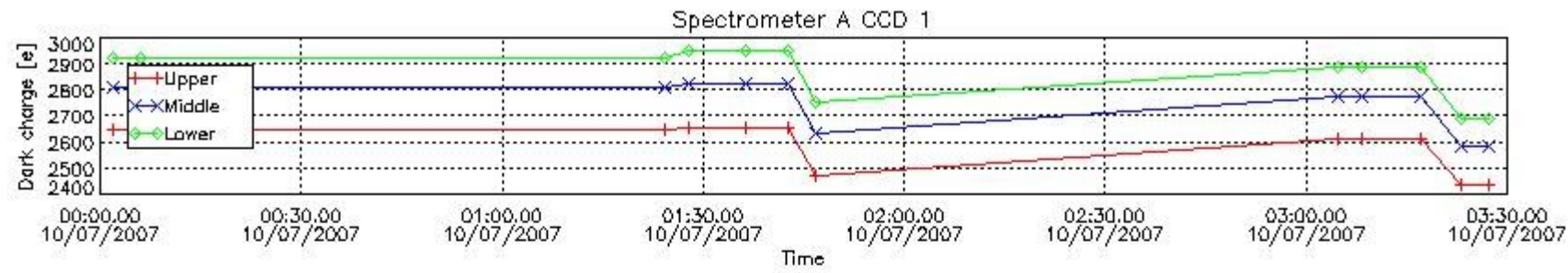
4. Overview of dark signal processing per product

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



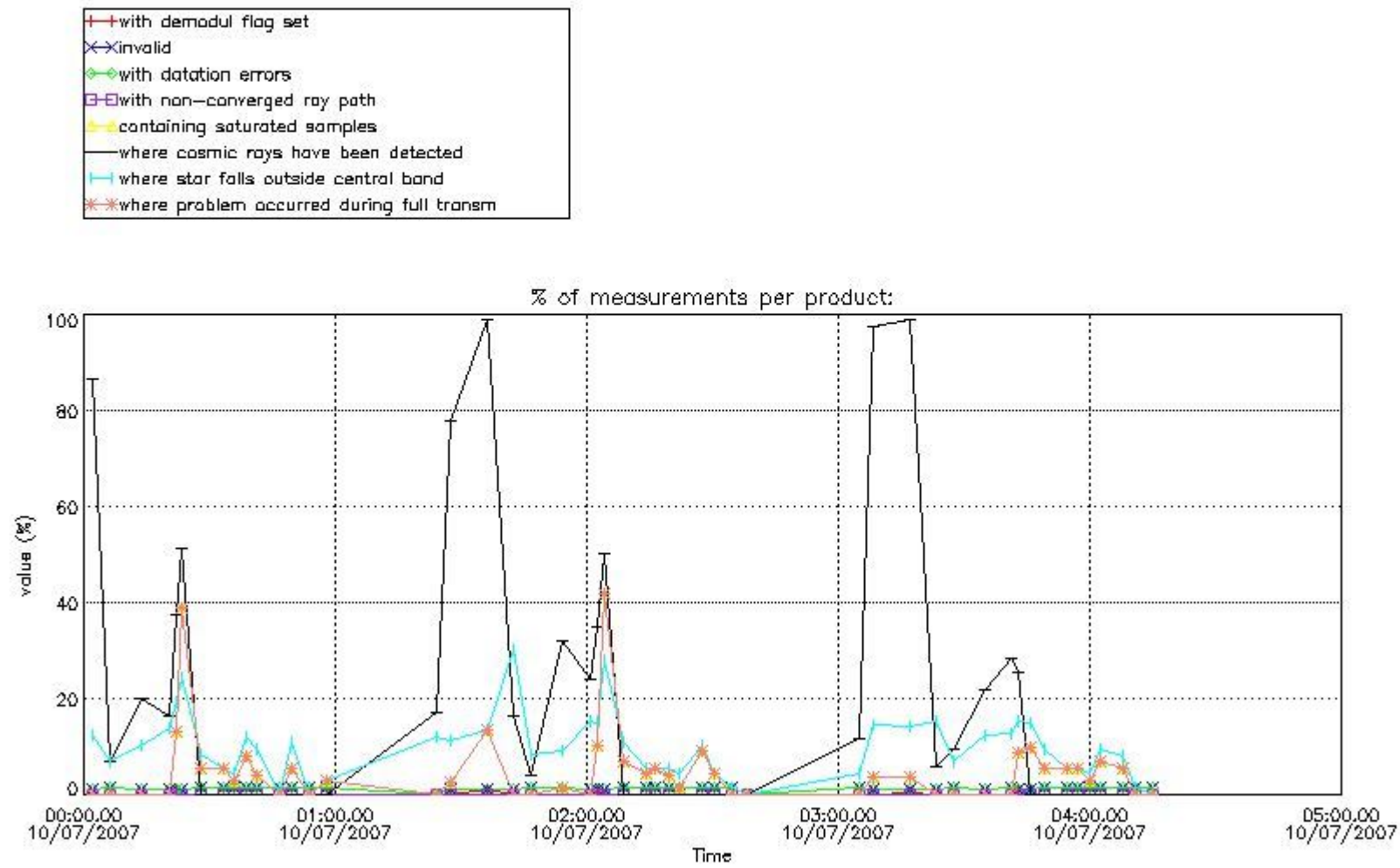
5. Demodulation flag and quality information monitoring

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.

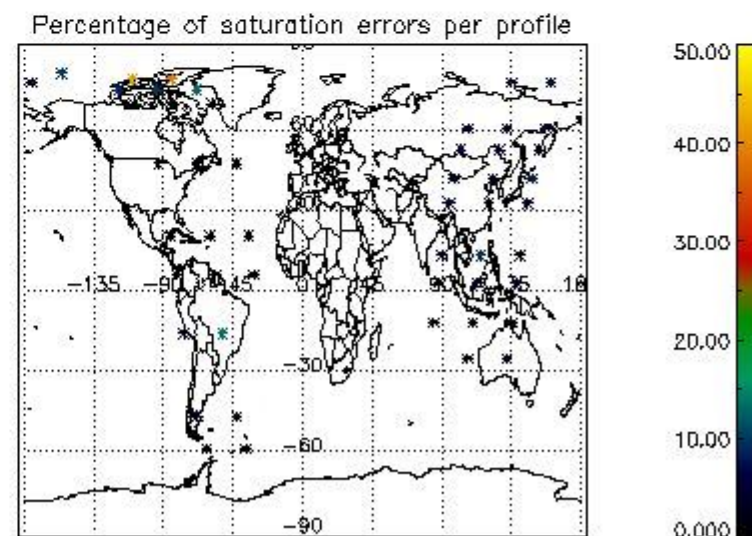
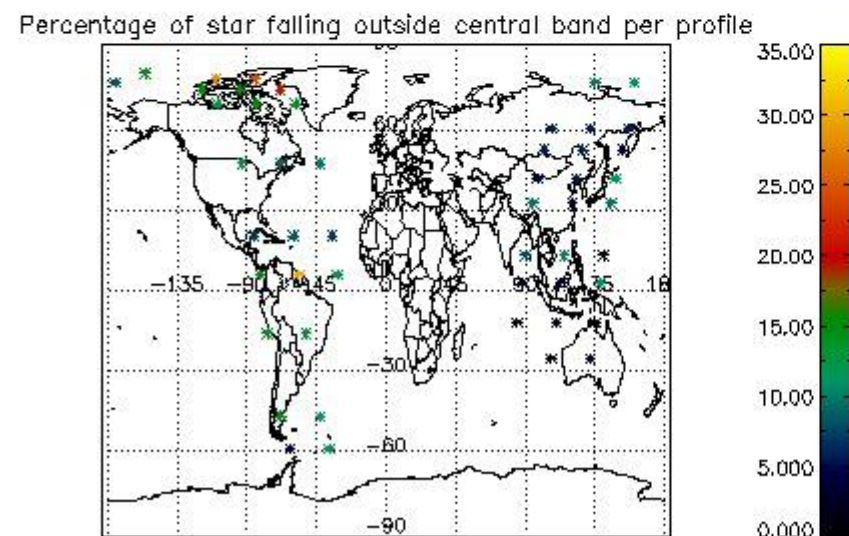
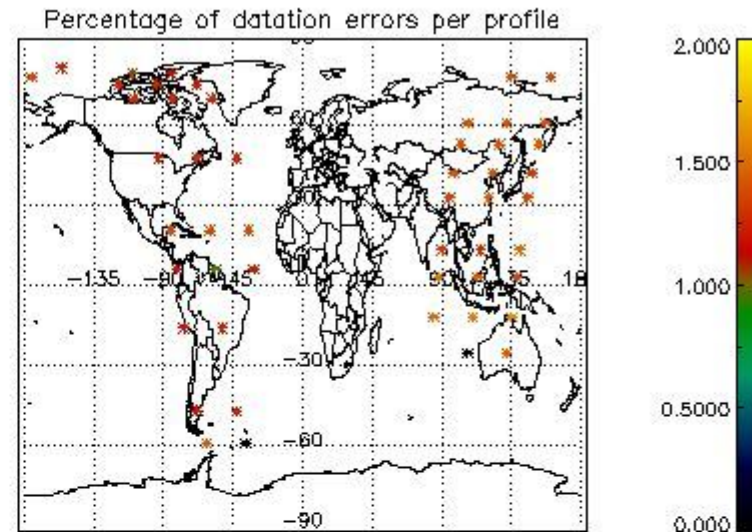
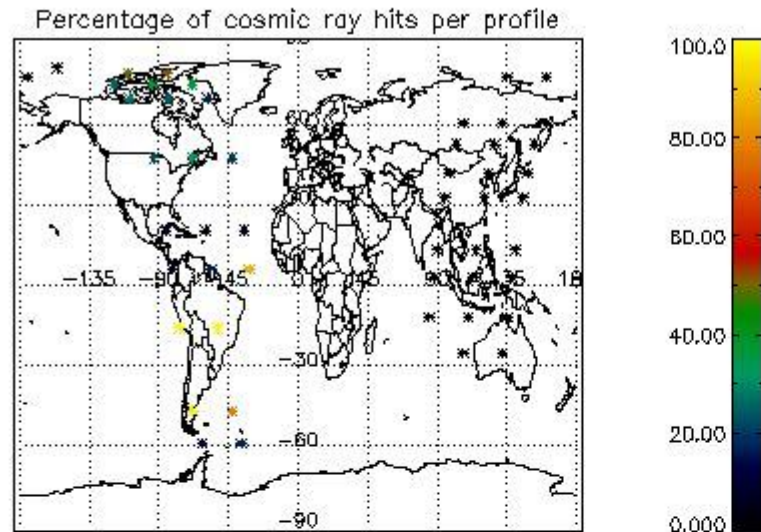
5.1 Percentage of products during reporting period with:

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)



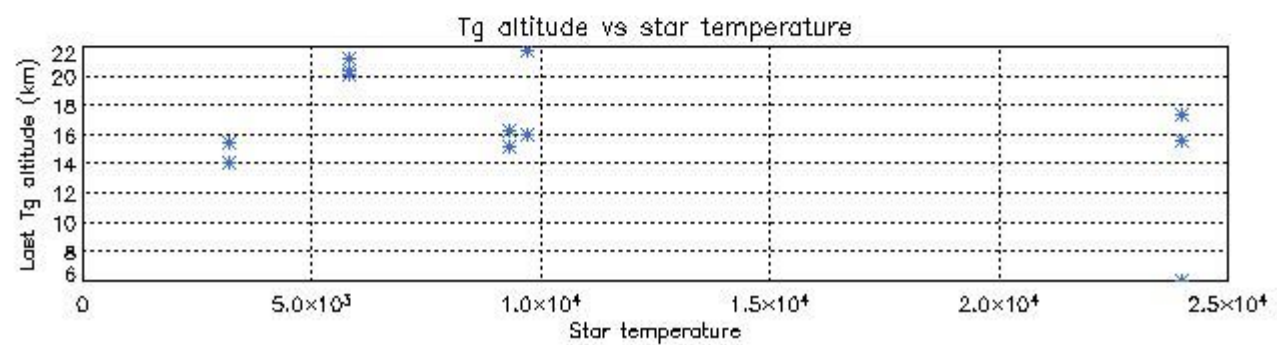
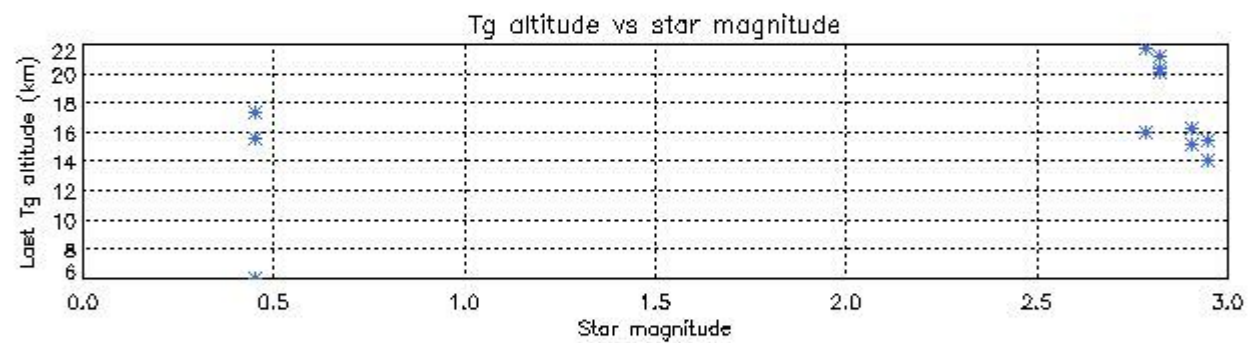
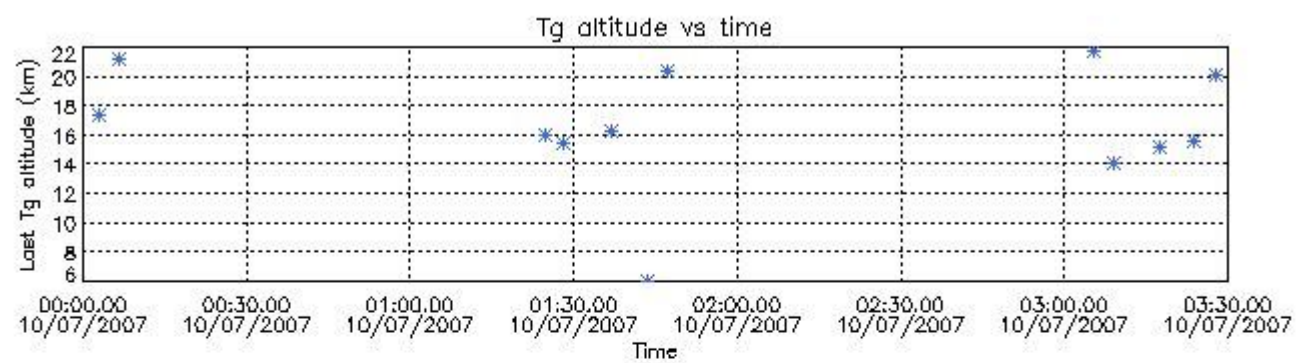
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.596	21.213	NaN
St. deviation:	4.2299	5.3394	NaN
Maximum:	21.678	32.660	NaN
Minimum:	6.0257	7.5971	NaN
Number of data:	12.000	29.000	NaN

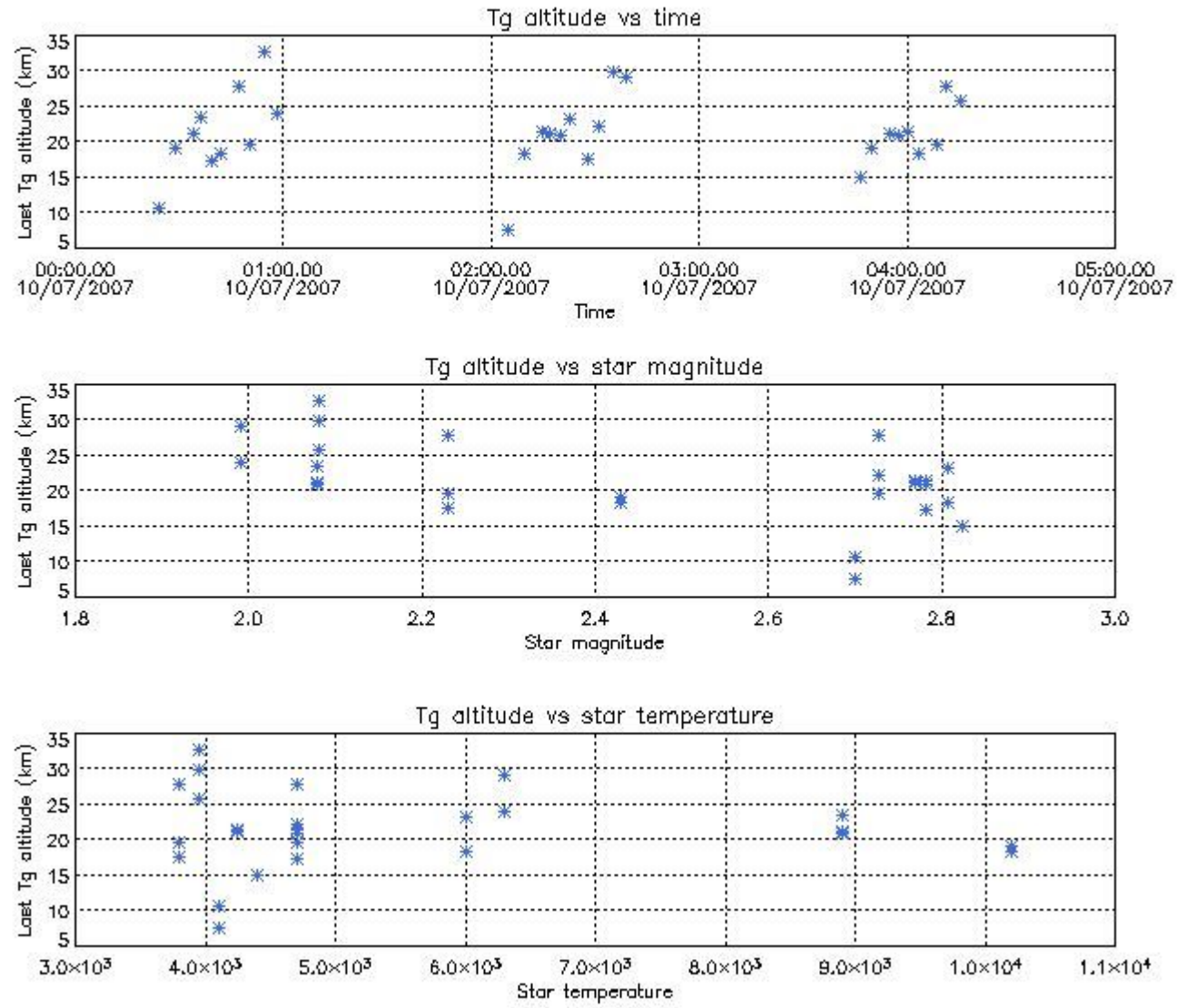
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

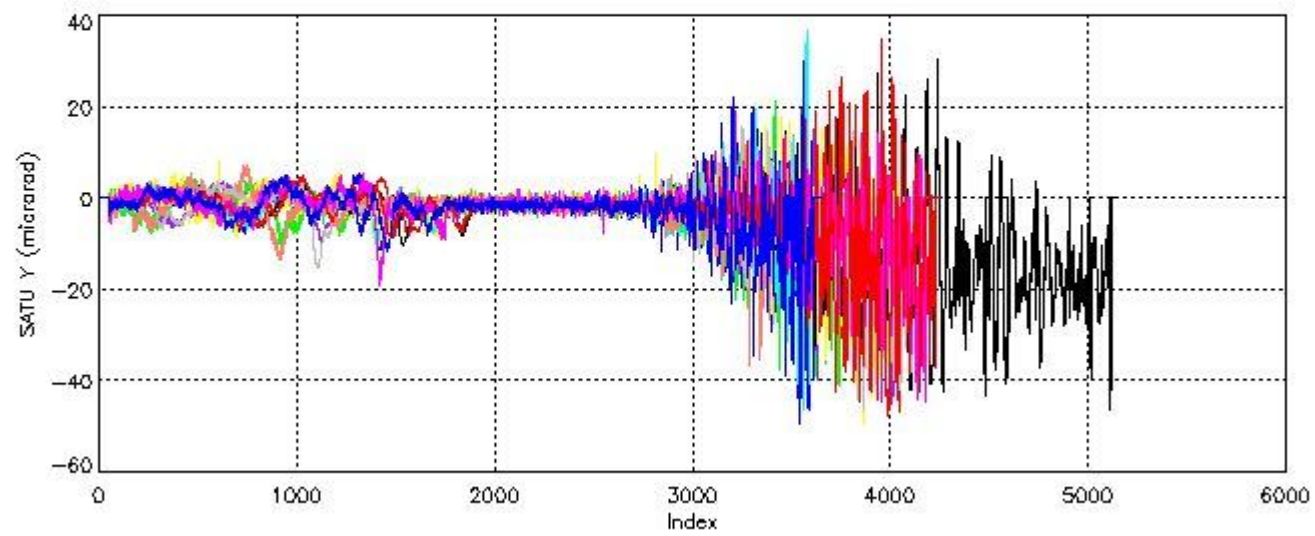
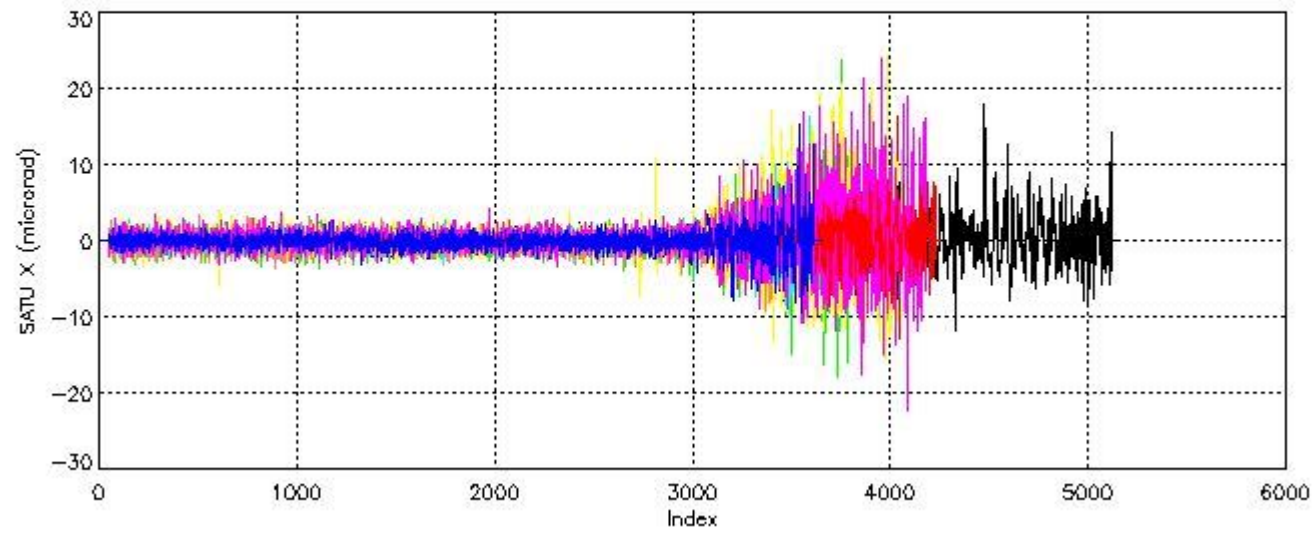


7. Star Acquisition and Tracking Unit (SATU)

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:	-0.011599	-1.0722	0.050541	-1.0050
St. deviation:	0.62437	2.2443	0.66518	2.5070
Maximum:	4.0000	8.2000	3.7000	6.7000
Minimum:	-6.1000	-8.5000	-3.8000	-9.8000

Number of data:	10700.	10700.	24200.	24200.
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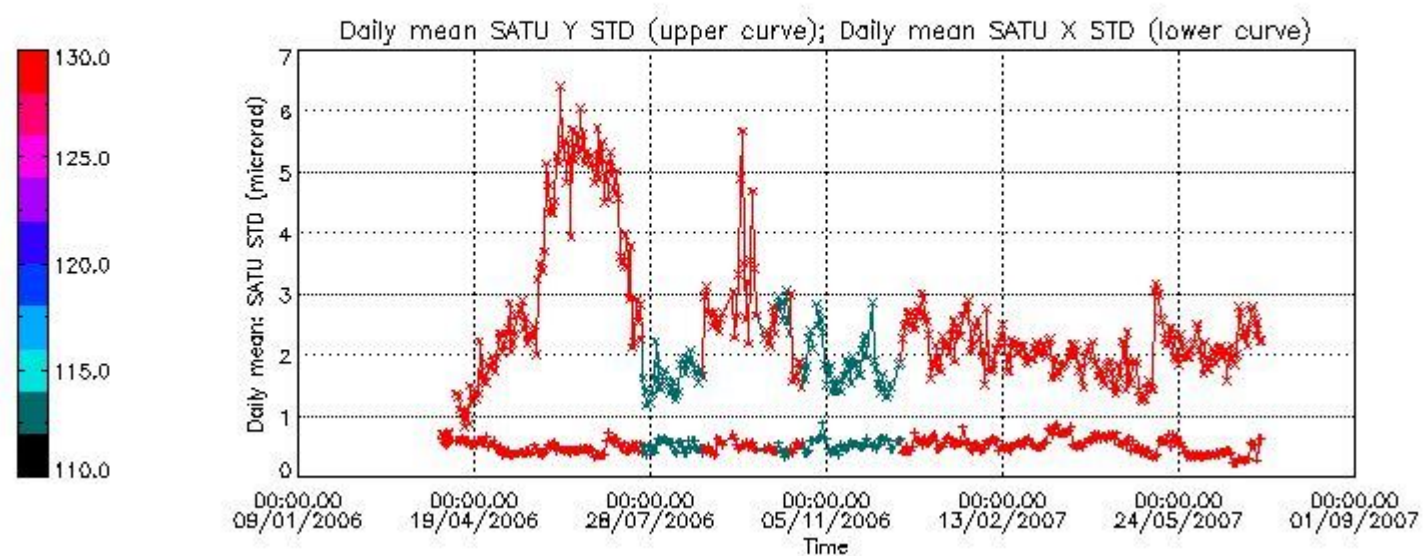
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

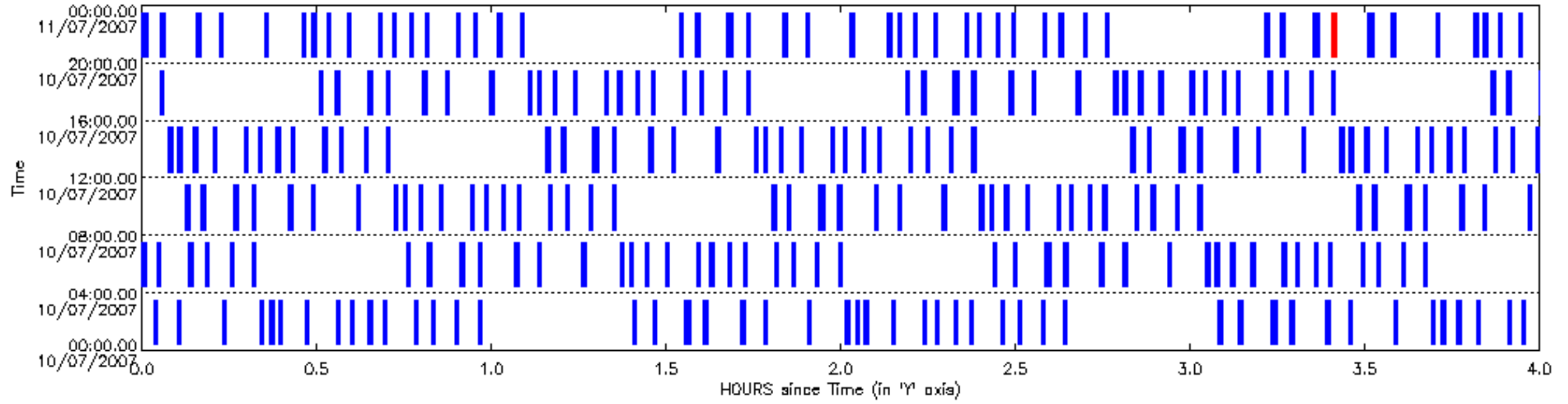
Lower curve: STD of SATU X axis

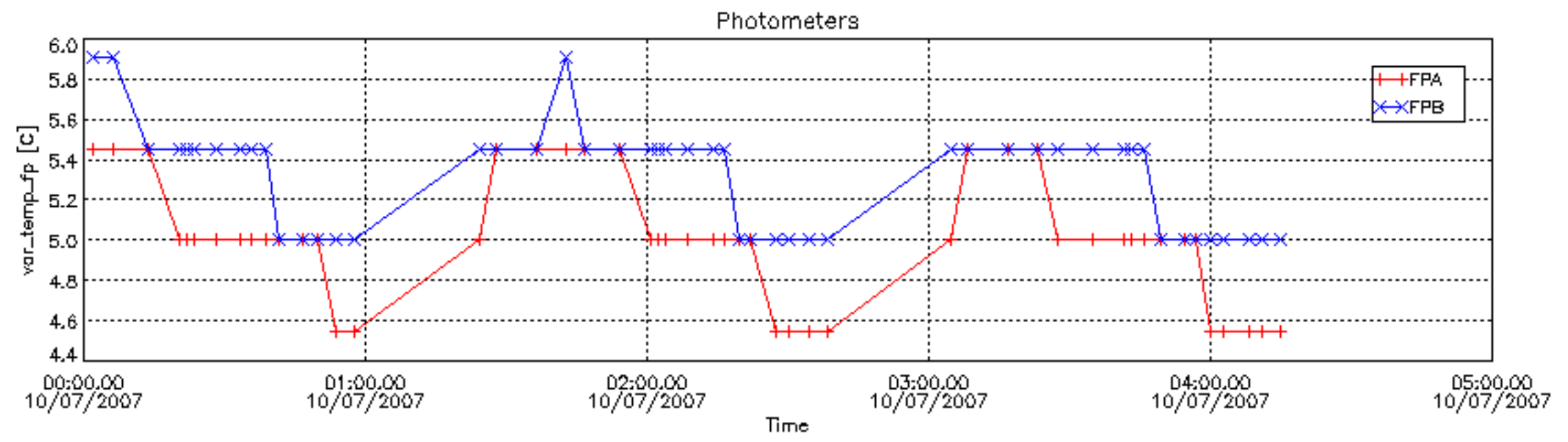
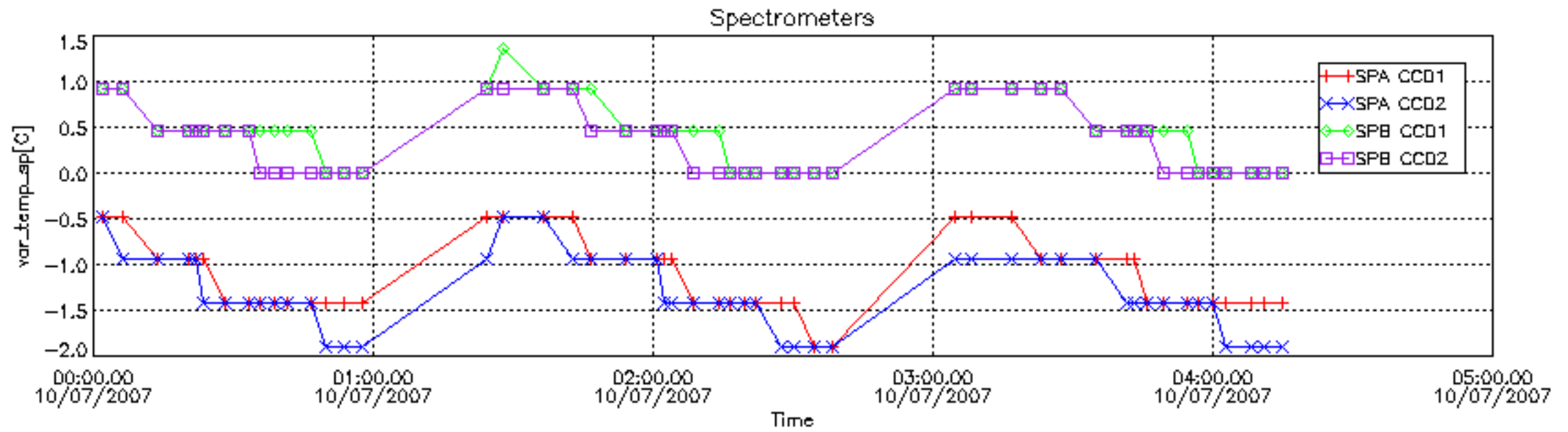


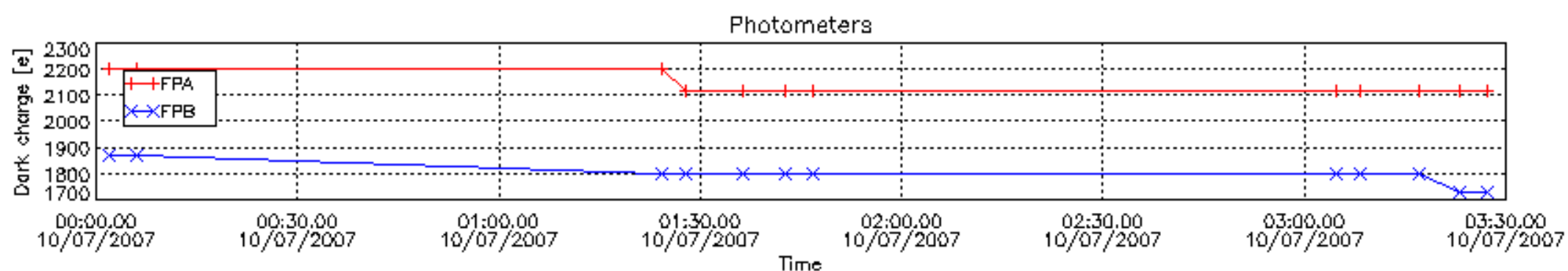
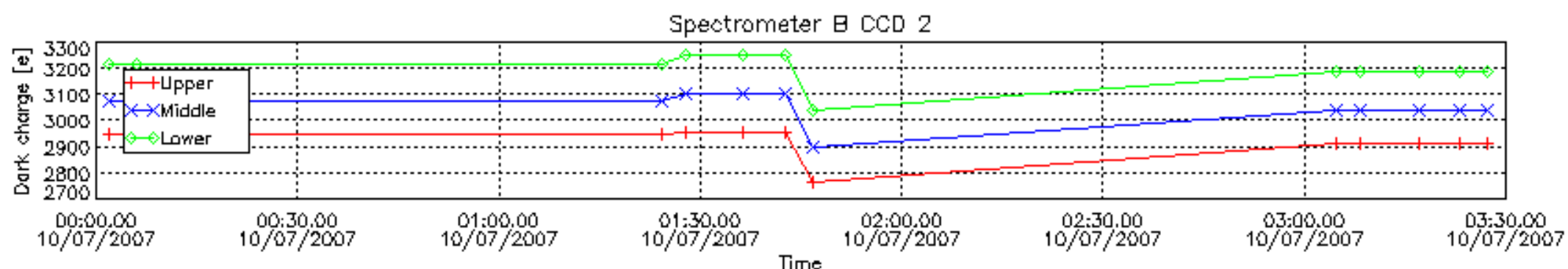
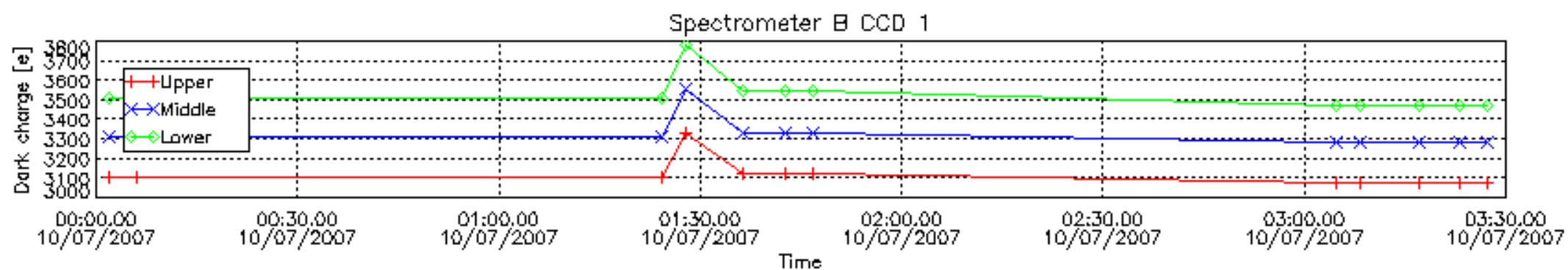
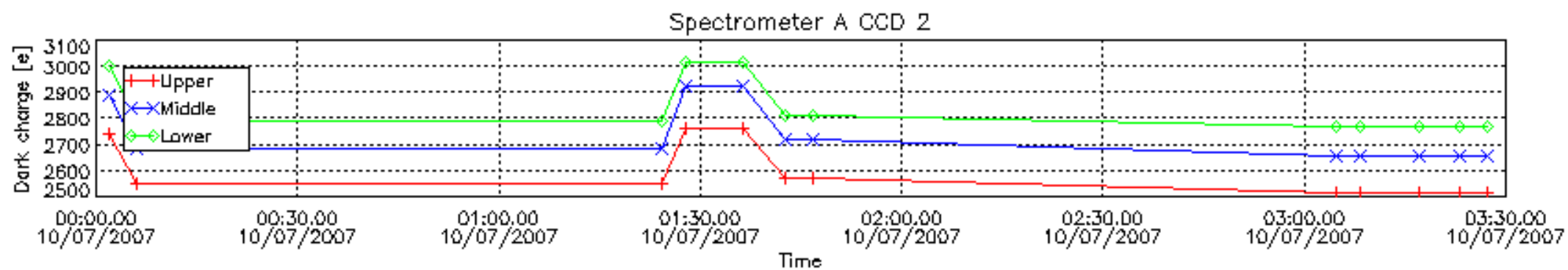
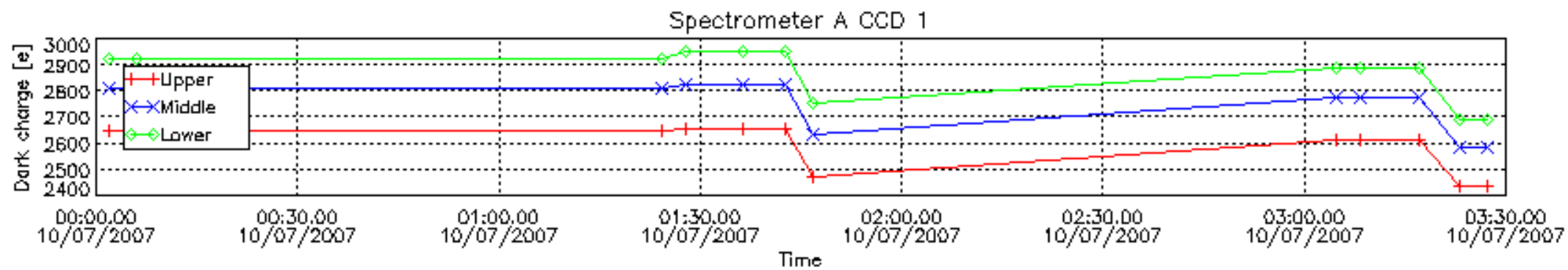
8. Auxiliary Data Files used for the production reported in section 2.4

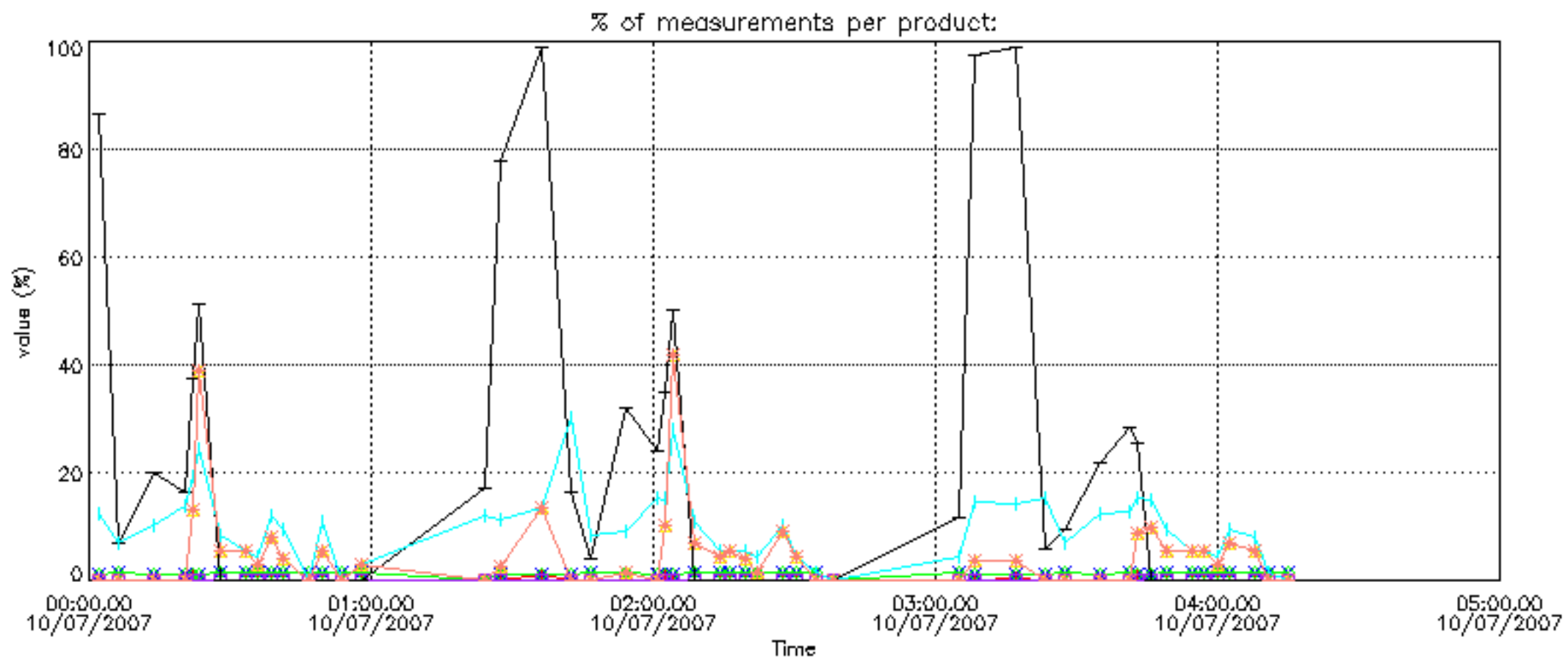
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	10-JUL-2007 00:02:01
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070702_090425_20070701_000000_20100101_000000	1	10-JUL-2007 00:02:01
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	10-JUL-2007 00:02:01
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	10-JUL-2007 00:02:01
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	10-JUL-2007 00:02:01
ECMWF_FILE	AUX_ECF_AXNECM20070709_062111_20070709_210000_20070710_090000	1	10-JUL-2007 00:02:01
ECMWF_FILE	AUX_ECF_AXNECM20070709_181111_20070710_030000_20070710_150000	34	10-JUL-2007 03:04:50
OPTIONAL_ECMWF_FILE	MISSING	1	10-JUL-2007 00:02:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070709_220210_000060572059_00401_28010_3745.N1	1	10-JUL-2007 00:02:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070709_234307_000057382059_00402_28011_3746.N1	17	10-JUL-2007 01:27:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070710_012404_000041442059_00403_28012_3747.N1	34	10-JUL-2007 03:04:50

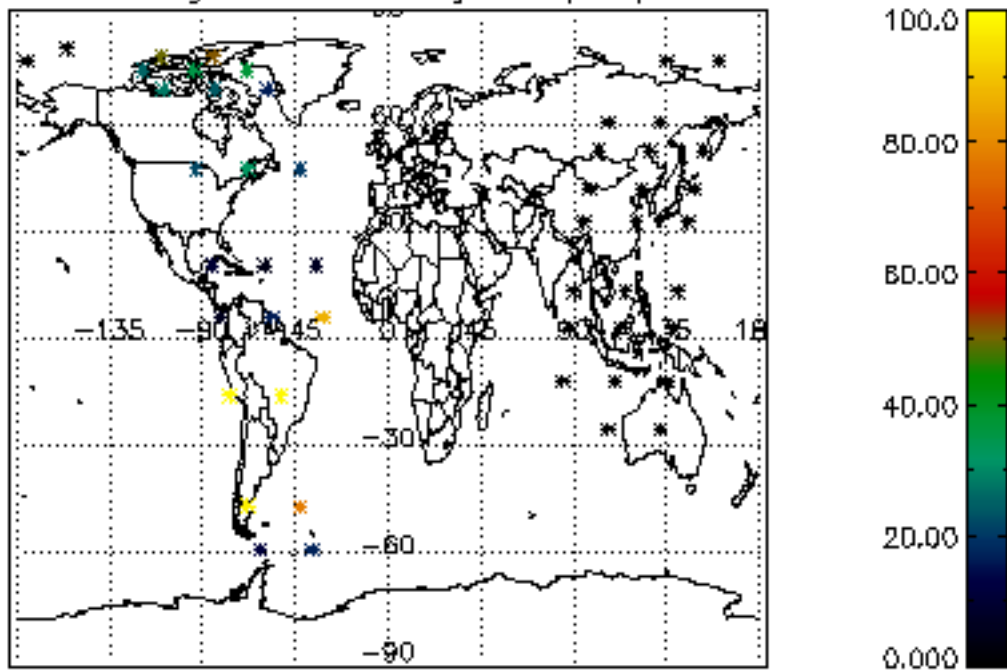




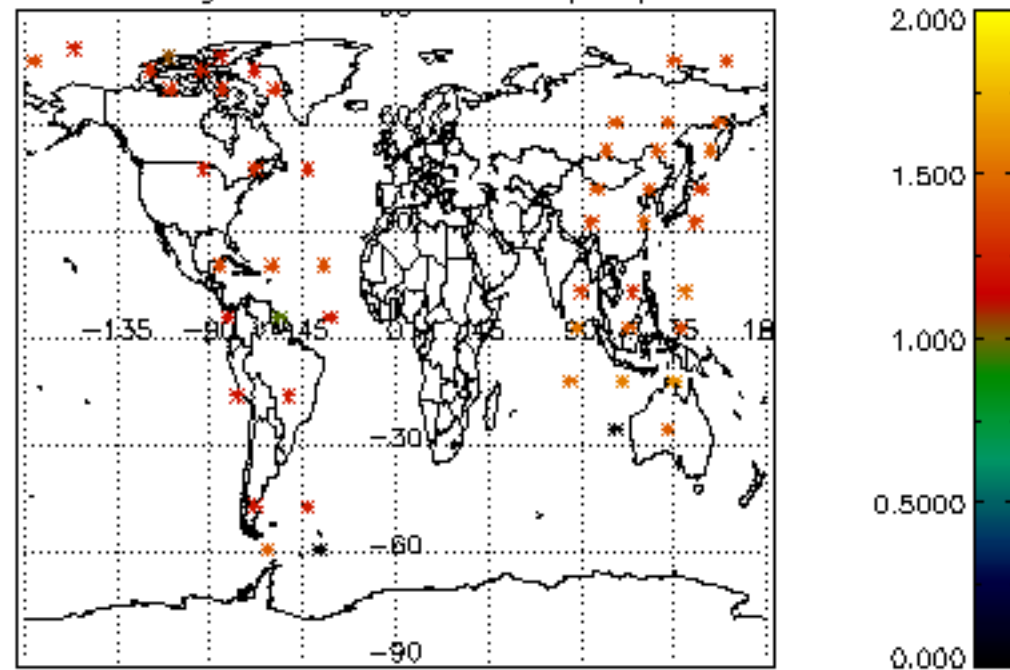




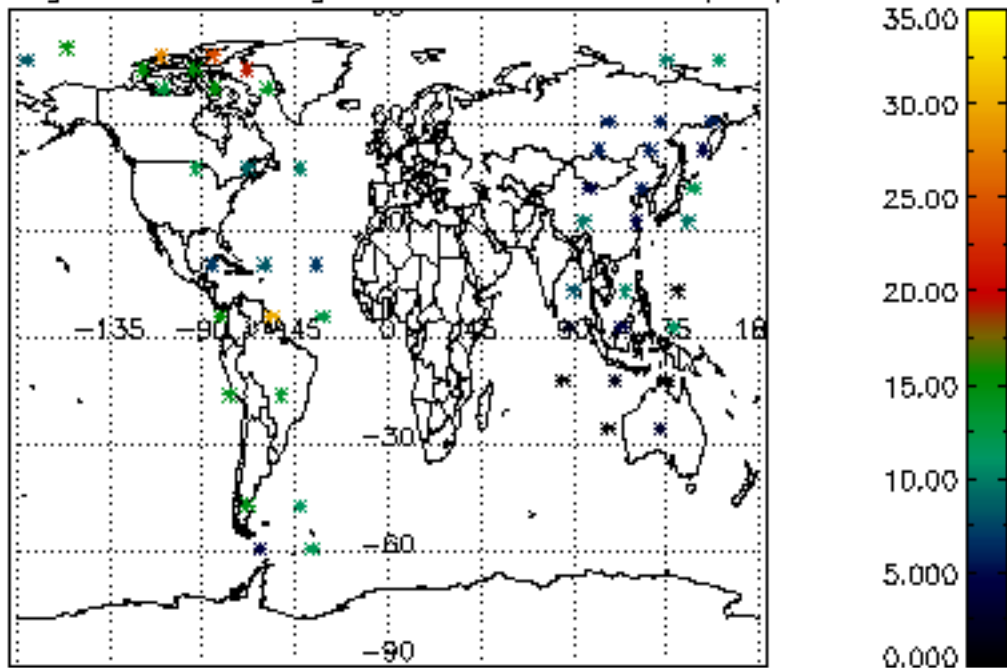
Percentage of cosmic ray hits per profile



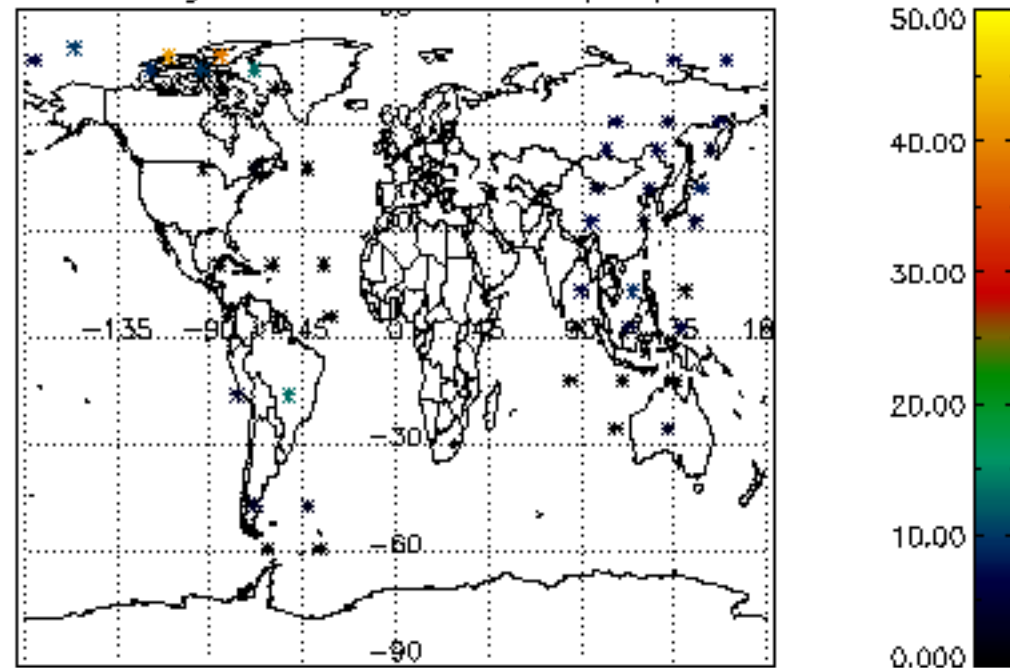
Percentage of datation errors per profile



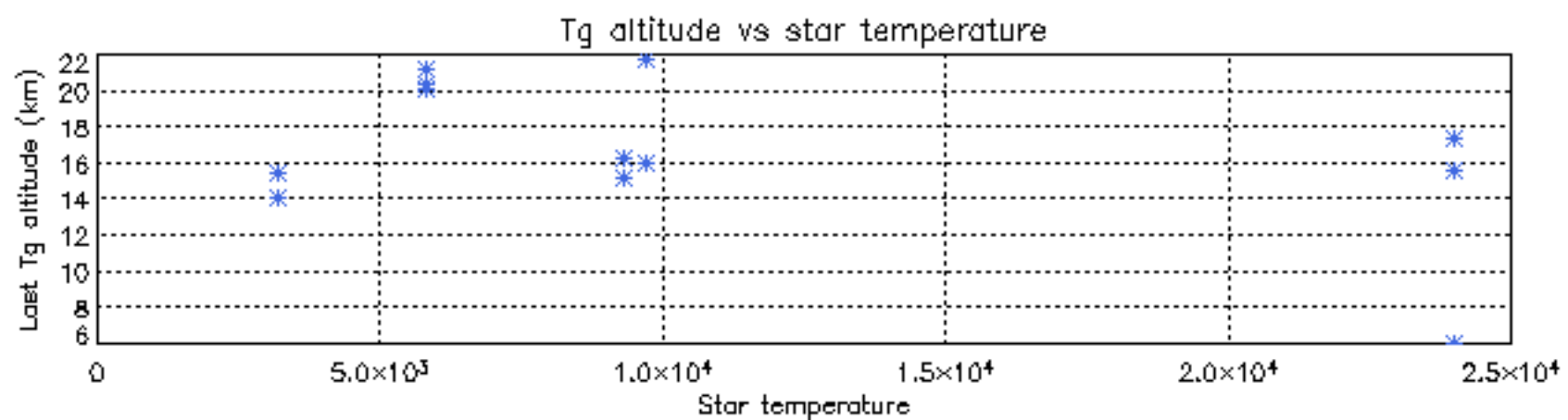
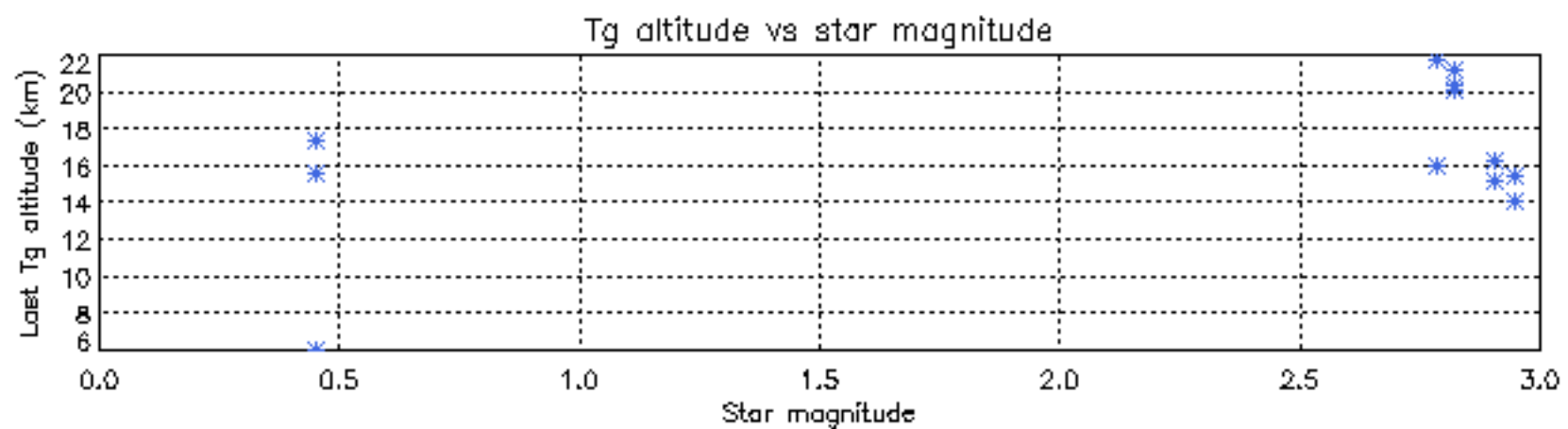
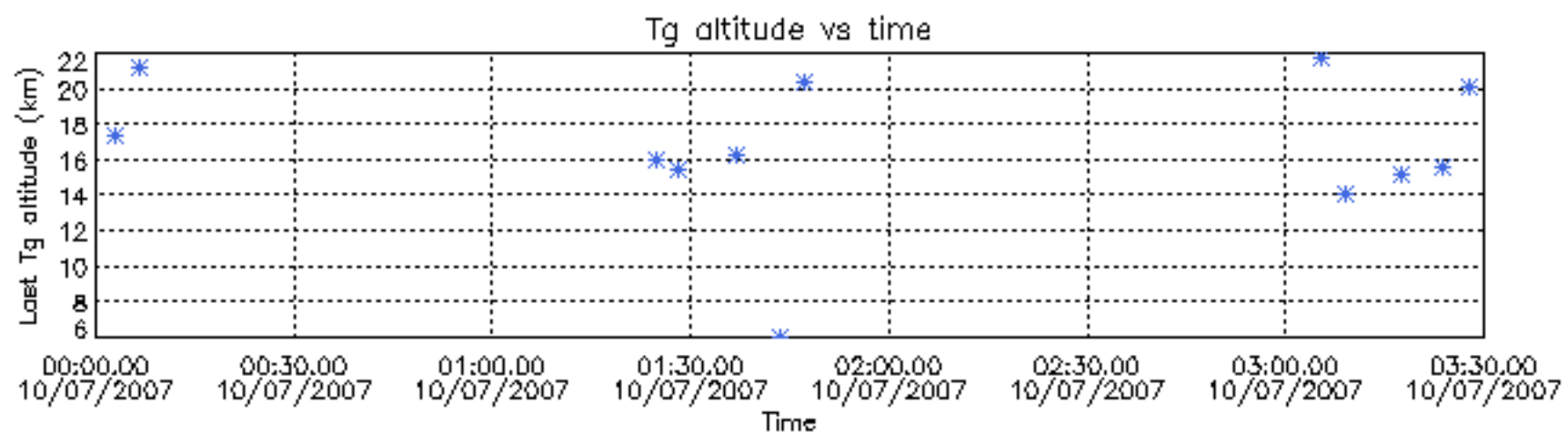
Percentage of star falling outside central band per profile



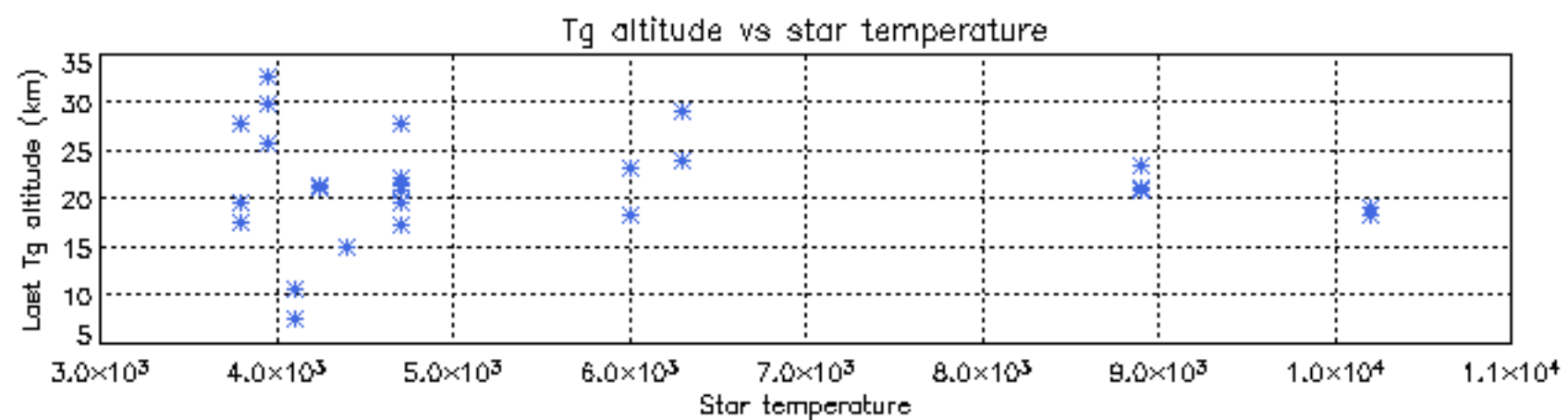
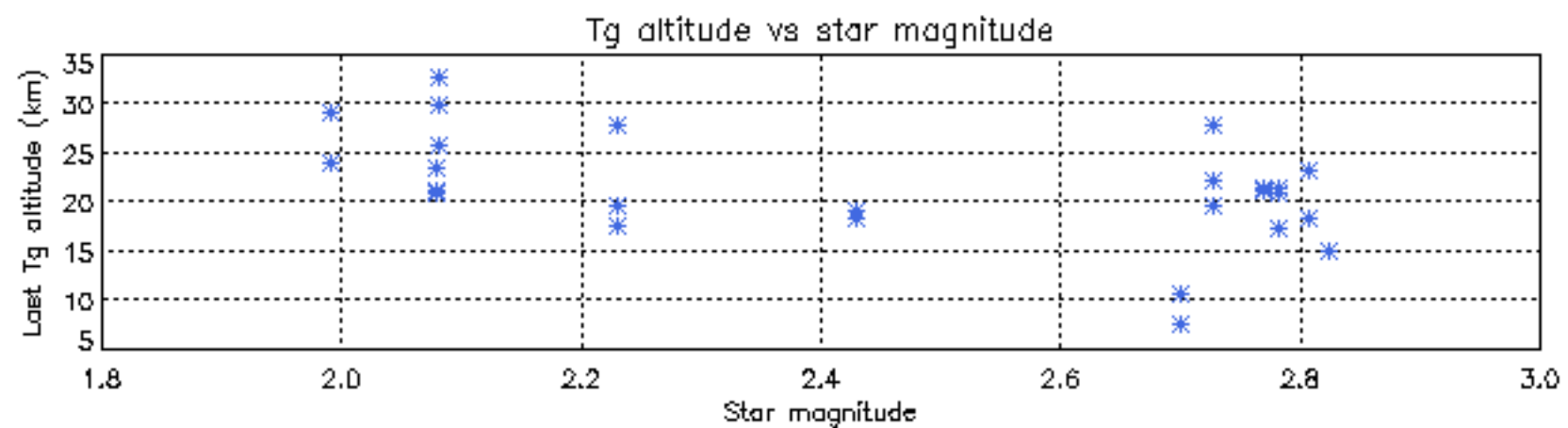
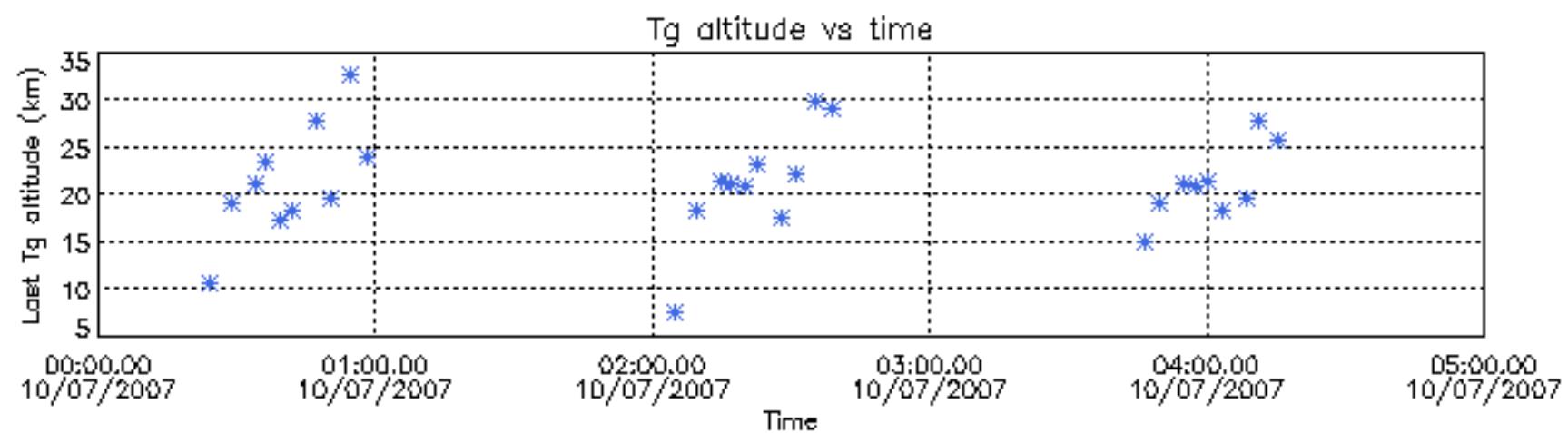
Percentage of saturation errors per profile

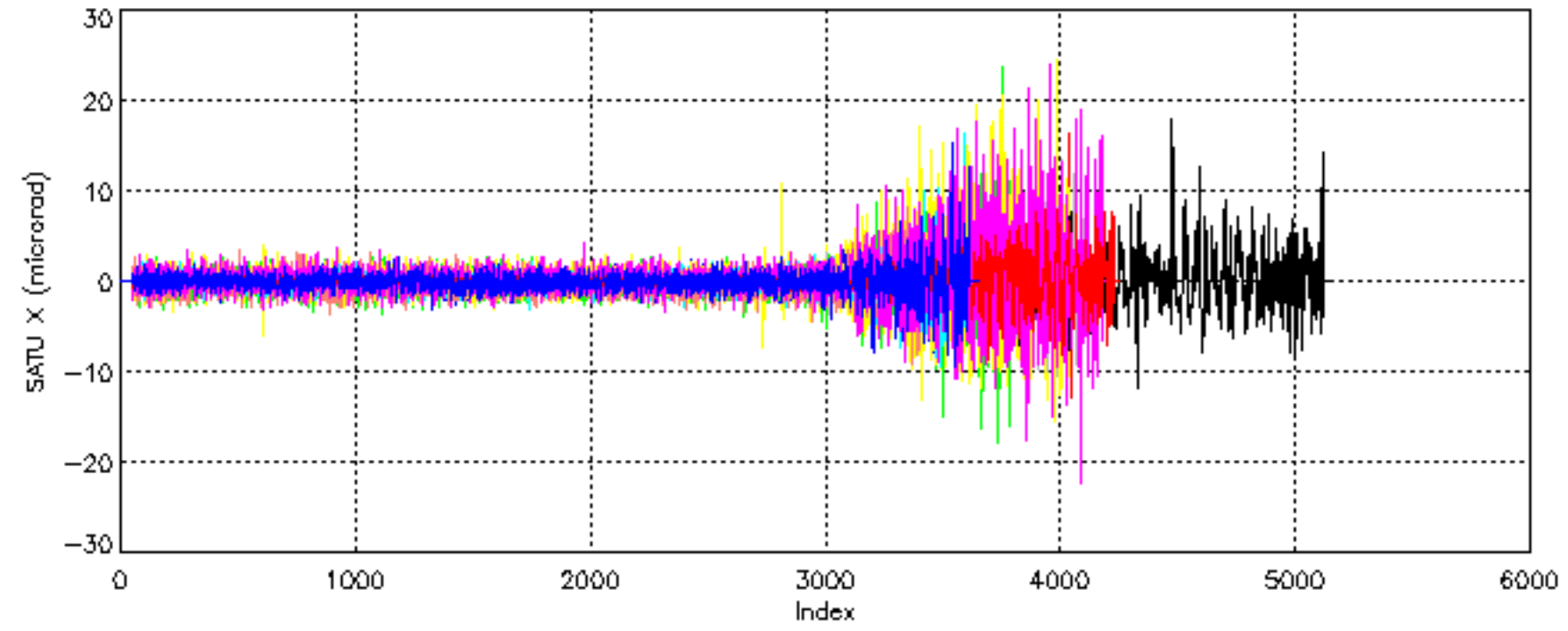


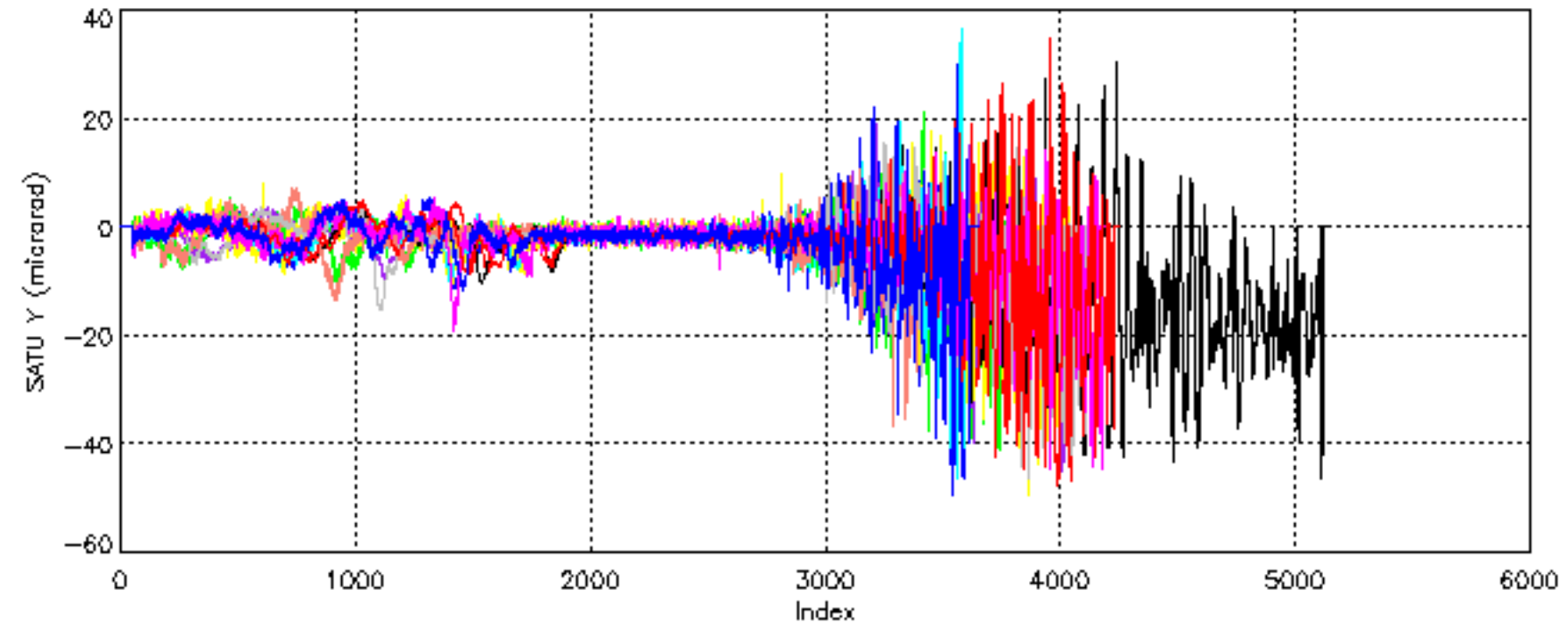
Tangent altitude at which the star is lost

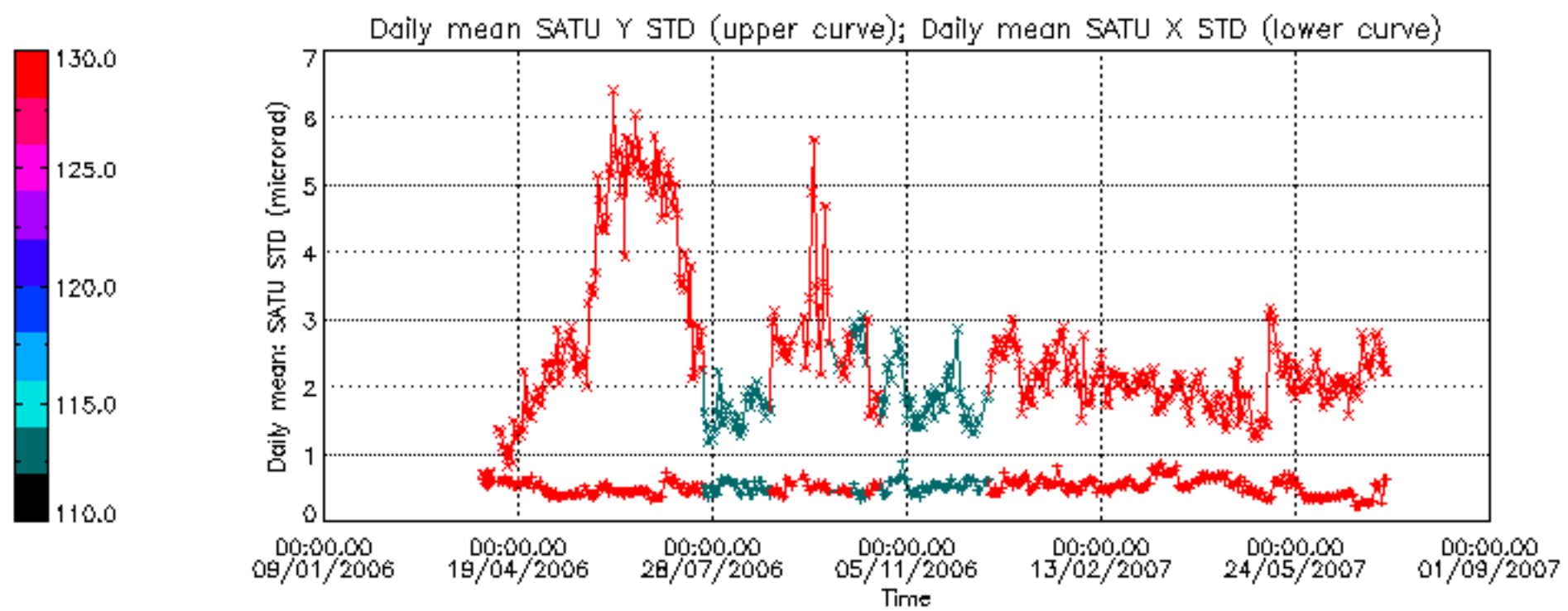


Tangent altitude at which the star is lost









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13;	4305.2;	06-JUL-2007	20:04:33;	Bright;	;	34.5;	149;	45Eps Per	;	2.89;	30000;occ;	69;	0;	27966
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