

GOMOS Daily Report 11-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	13JUL2007 05:37:06
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (11JUL2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (12JUL2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	40
Nb of prods with errors	0

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

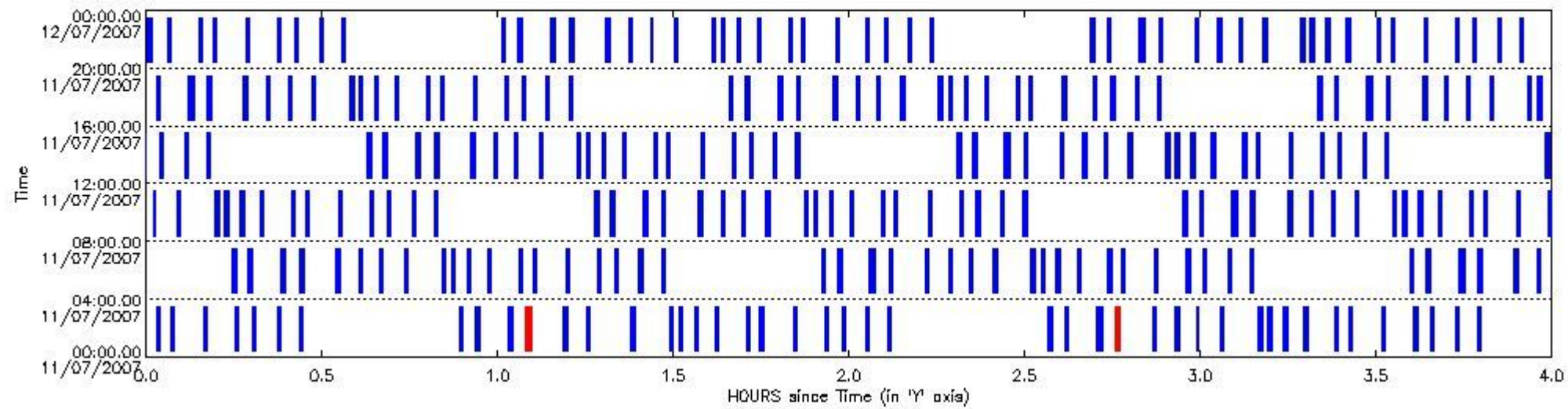
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

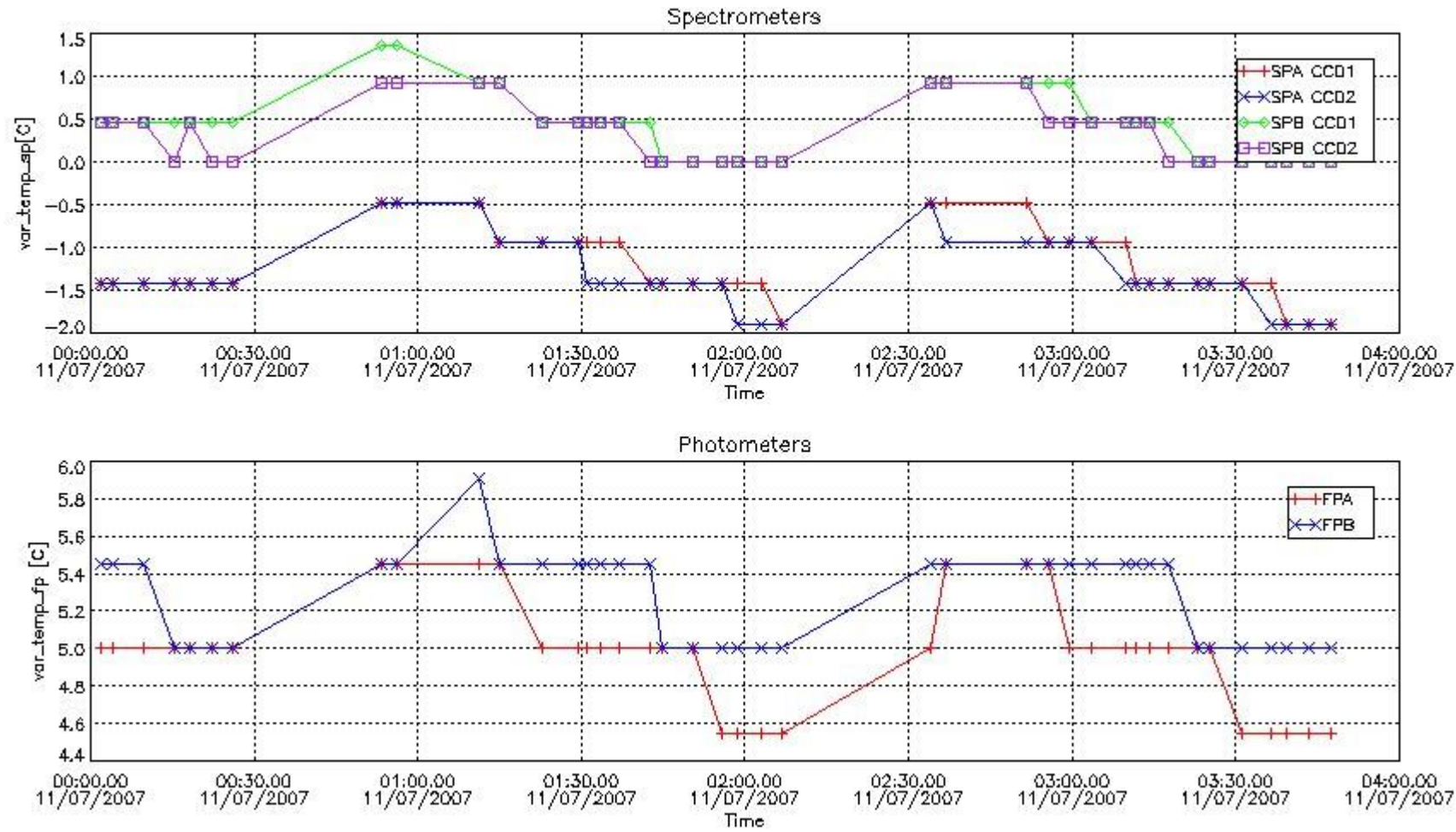
UTC start time	Star name	Star ID	Orbit
11-JUL-2007 01:04:49	The1Eri	157	28026
11-JUL-2007 02:45:25	The1Eri	157	28027

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_1PNPDE20070711_000150_000000362059_00417_28026_0290.N1	11-JUL-2007 00:01:50	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	28026	No
2	GOM_TRA_1PNPDE20070711_000407_000000352059_00417_28026_0291.N1	11-JUL-2007 00:04:07	Bright	35.000	59	55Alp Oph	2.0800	8900.0	70	28026	No
3	GOM_TRA_1PNPDE20070711_000950_000000372059_00417_28026_0292.N1	11-JUL-2007 00:09:50	Bright	36.500	133	40Zet Her	2.8070	6000.0	73	28026	No
4	GOM_TRA_1PNPDE20070711_001512_000000332059_00417_28026_0293.N1	11-JUL-2007 00:15:12	Bright	33.000	69	33Gam Dra	2.2310	3800.0	66	28026	No
5	GOM_TRA_1PNPDE20070711_001807_000000362059_00417_28026_0294.N1	11-JUL-2007 00:18:07	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	28026	No
6	GOM_TRA_1PNPDE20070711_002217_000000362059_00417_28026_0295.N1	11-JUL-2007 00:22:17	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	28026	No
7	GOM_TRA_1PNPDE20070711_002607_000000362059_00417_28026_0296.N1	11-JUL-2007 00:26:07	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	28026	No
8	GOM_TRA_1PNPDE20070711_005327_000000382059_00417_28026_0297.N1	11-JUL-2007 00:53:27	Dark	37.500	7	19Bet Ori	0.10000	14000.	75	28026	No
9	GOM_TRA_1PNPDE20070711_005611_000000442059_00417_28026_0421.N1	11-JUL-2007 00:56:11	Dark	43.500	165	34Gam Eri	2.9500	3200.0	87	28026	No

10	GOM_TRA_1PNPDE20070711_011109_000000542059_00418_28027_0422.N1	11-JUL-2007 01:11:09	Dark	54.000	9	Alp Eri	0.45300	24000.	108	28027	No
11	GOM_TRA_1PNPDE20070711_011507_000000362059_00418_28027_0423.N1	11-JUL-2007 01:15:07	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	28027	No
12	GOM_TRA_1PNPDE20070711_012247_000000402059_00418_28027_0424.N1	11-JUL-2007 01:22:47	Straylight	39.500	45	Alp Pav	1.9400	26000.	79	28027	No
13	GOM_TRA_1PNPDE20070711_012915_000000402059_00418_28027_0425.N1	11-JUL-2007 01:29:15	Twilight_and_stray	40.000	40	The Sco	1.8590	7100.0	80	28027	No
14	GOM_TRA_1PNPDE20070711_013055_000000402059_00418_28027_0426.N1	11-JUL-2007 01:30:55	Twilight_and_stray	39.500	25	35Lam Sco	1.6200	28000.	79	28027	No
15	GOM_TRA_1PNPDE20070711_013334_000000392059_00418_28027_0427.N1	11-JUL-2007 01:33:34	Bright	39.000	137	22Lam Sgr	2.8240	4400.0	78	28027	No
16	GOM_TRA_1PNPDE20070711_013705_000000362059_00418_28027_0428.N1	11-JUL-2007 01:37:05	Bright	36.000	86	35Eta Oph	2.4300	10200.	72	28027	No
17	GOM_TRA_1PNPDE20070711_014226_000000352059_00418_28027_0429.N1	11-JUL-2007 01:42:26	Bright	35.000	126	60Bet Oph	2.7700	4250.0	70	28027	No
18	GOM_TRA_1PNPDE20070711_014443_000000362059_00418_28027_0430.N1	11-JUL-2007 01:44:43	Bright	35.500	59	55Alp Oph	2.0800	8900.0	71	28027	No
19	GOM_TRA_1PNPDE20070711_015026_000000352059_00418_28027_0431.N1	11-JUL-2007 01:50:26	Bright	34.500	133	40Zet Her	2.8070	6000.0	69	28027	No
20	GOM_TRA_1PNPDE20070711_015548_000000372059_00418_28027_0432.N1	11-JUL-2007 01:55:48	Bright	36.500	69	33Gam Dra	2.2310	3800.0	73	28027	No
21	GOM_TRA_1PNPDE20070711_015843_000000362059_00418_28027_0433.N1	11-JUL-2007 01:58:43	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	28027	No
22	GOM_TRA_1PNPDE20070711_020253_000000322059_00418_28027_0434.N1	11-JUL-2007 02:02:53	Bright	32.000	60	7Bet UMi	2.0810	3950.0	64	28027	No
23	GOM_TRA_1PNPDE20070711_020643_000000332059_00418_28027_0435.N1	11-JUL-2007 02:06:43	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	28027	No
24	GOM_TRA_1PNPDE20070711_023403_000000382059_00418_28027_0734.N1	11-JUL-2007 02:34:03	Dark	37.500	7	19Bet Ori	0.10000	14000.	75	28027	No
25	GOM_TRA_1PNPDE20070711_023647_000000382059_00418_28027_0591.N1	11-JUL-2007 02:36:47	Dark	38.000	165	34Gam Eri	2.9500	3200.0	76	28027	No
26	GOM_TRA_1PNPDE20070711_025145_000000412059_00419_28028_0736.N1	11-JUL-2007 02:51:45	Dark	40.500	9	Alp Eri	0.45300	24000.	81	28028	No
27	GOM_TRA_1PNPDE20070711_025543_000000372059_00419_28028_0737.N1	11-JUL-2007 02:55:43	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	28028	No
28	GOM_TRA_1PNPDE20070711_025919_000000262059_00419_28028_0738.N1	11-JUL-2007 02:59:19	Straylight	26.000	148	Alp Tuc	2.8780	4100.0	52	28028	No
29	GOM_TRA_1PNPDE20070711_030323_000000412059_00419_28028_0739.N1	11-JUL-2007 03:03:23	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	28028	No
30	GOM_TRA_1PNPDE20070711_030951_000000402059_00419_28028_0740.N1	11-JUL-2007 03:09:51	Twilight_and_stray	39.500	40	The Sco	1.8590	7100.0	79	28028	No
31	GOM_TRA_1PNPDE20070711_031131_000000402059_00419_28028_0741.N1	11-JUL-2007 03:11:31	Twilight_and_stray	40.000	25	35Lam Sco	1.6200	28000.	80	28028	No
32	GOM_TRA_1PNPDE20070711_031410_000000412059_00419_28028_0742.N1	11-JUL-2007 03:14:10	Bright	41.000	137	22Lam Sgr	2.8240	4400.0	82	28028	No
33	GOM_TRA_1PNPDE20070711_031741_000000372059_00419_28028_0743.N1	11-JUL-2007 03:17:41	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	28028	No
34	GOM_TRA_1PNPDE20070711_032302_000000352059_00419_28028_0744.N1	11-JUL-2007 03:23:02	Bright	34.500	126	60Bet Oph	2.7700	4250.0	69	28028	No
35	GOM_TRA_1PNPDE20070711_032519_000000352059_00419_28028_0745.N1	11-JUL-2007 03:25:19	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	28028	No
36	GOM_TRA_1PNPDE20070711_033102_000000372059_00419_28028_0746.N1	11-JUL-2007 03:31:02	Bright	36.500	133	40Zet Her	2.8070	6000.0	73	28028	No
37	GOM_TRA_1PNPDE20070711_033624_000000382059_00419_28028_0603.N1	11-JUL-2007 03:36:24	Bright	37.500	69	33Gam Dra	2.2310	3800.0	75	28028	No
38	GOM_TRA_1PNPDE20070711_033919_000000322059_00419_28028_0604.N1	11-JUL-2007 03:39:19	Bright	32.000	119	14Eta Dra	2.7270	4700.0	64	28028	No
39	GOM_TRA_1PNPDE20070711_034330_000000332059_00419_28028_0605.N1	11-JUL-2007 03:43:30	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	28028	No
40	GOM_TRA_1PNPDE20070711_034719_000000342059_00419_28028_0606.N1	11-JUL-2007 03:47:19	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	28028	No

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



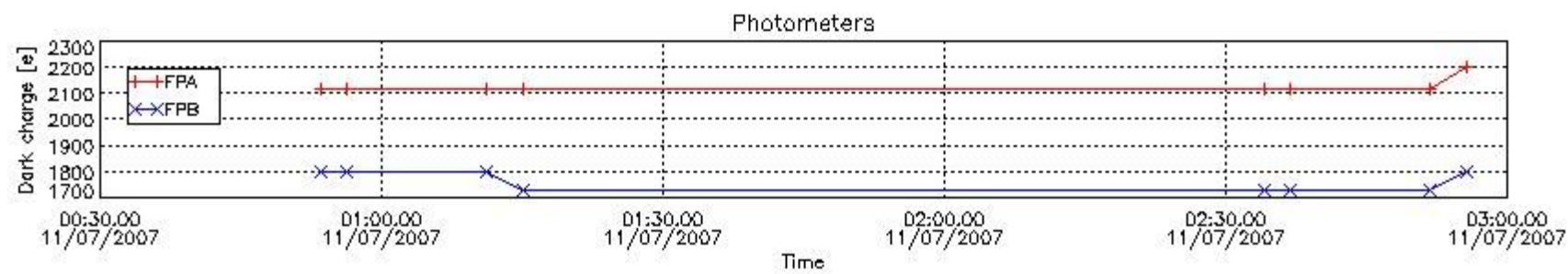
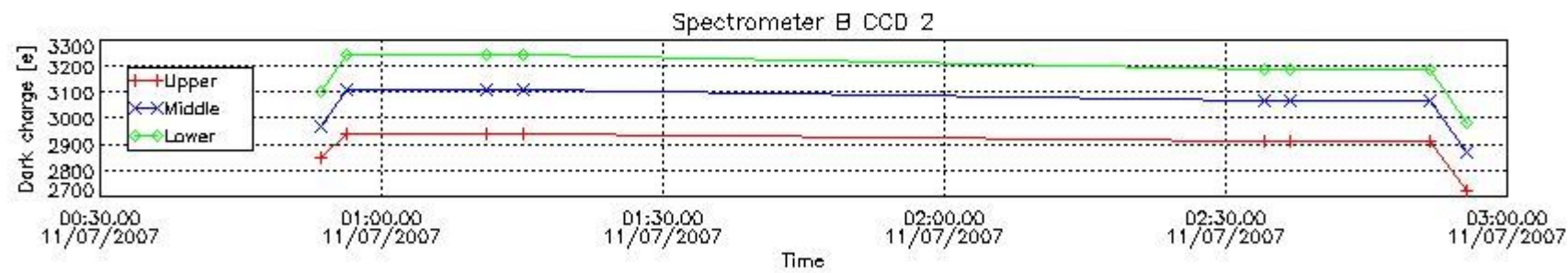
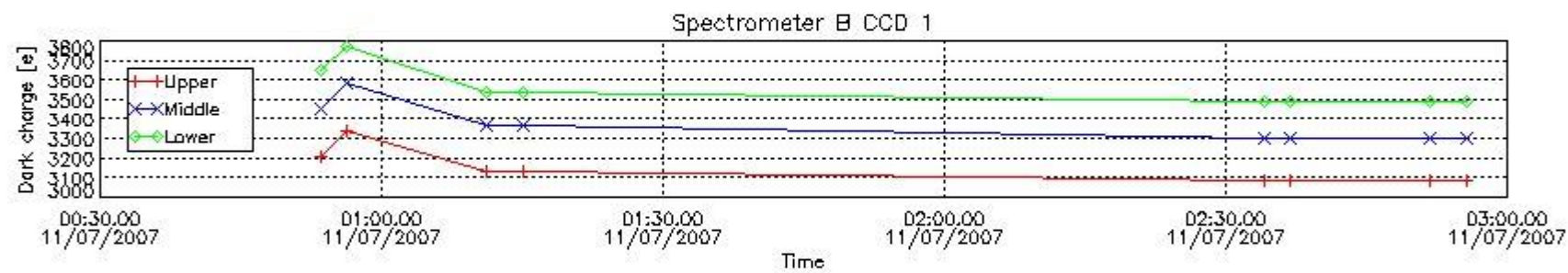
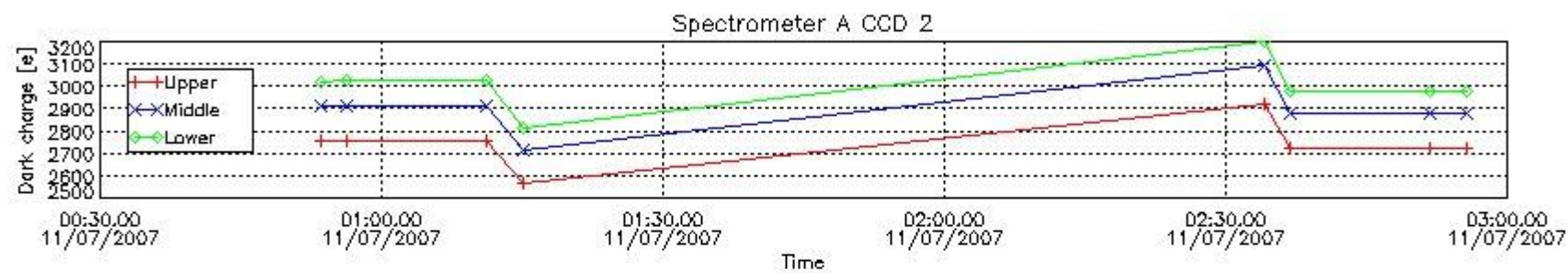
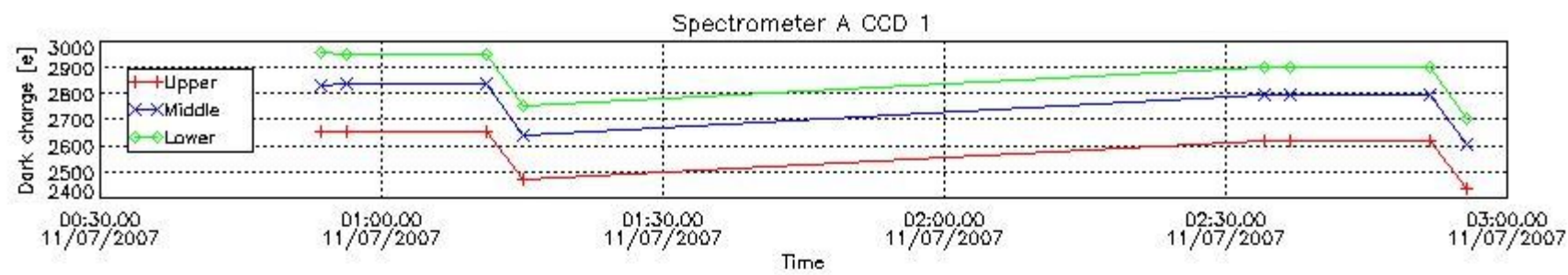
4. Overview of dark signal processing per product

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



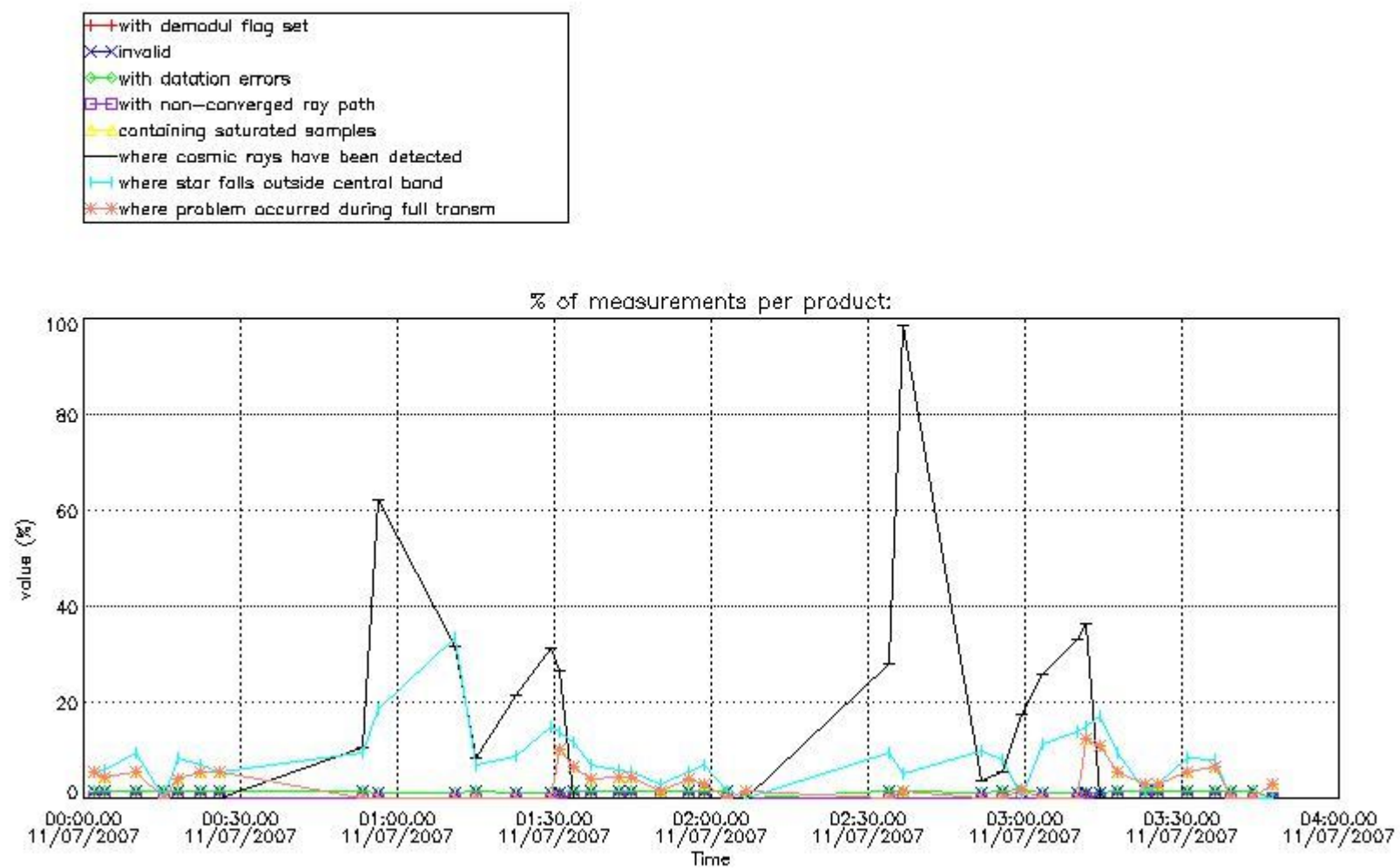
5. Demodulation flag and quality information monitoring

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.

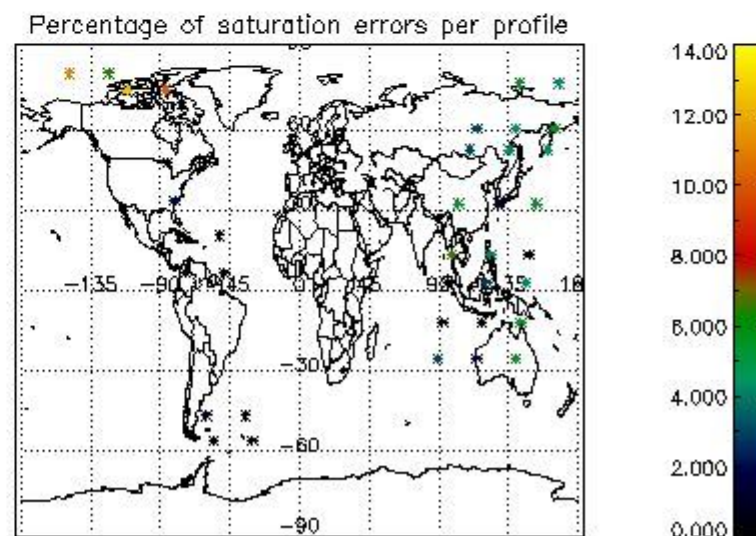
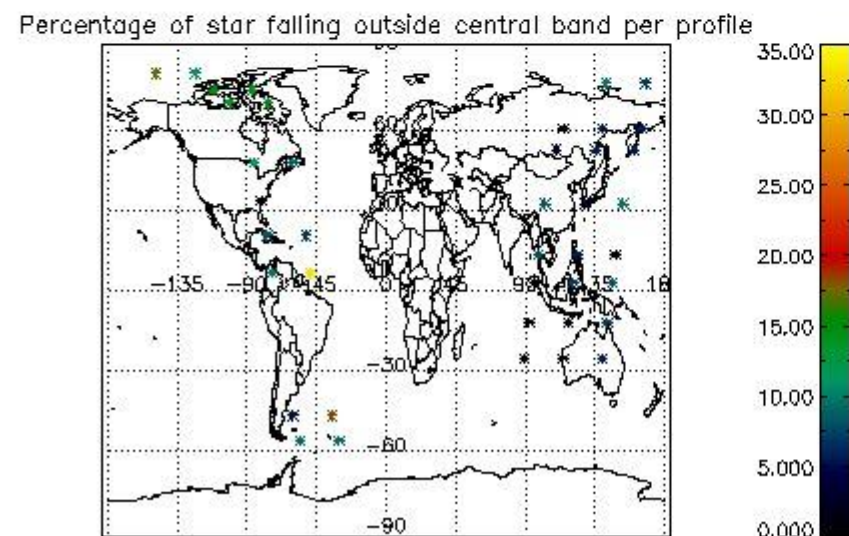
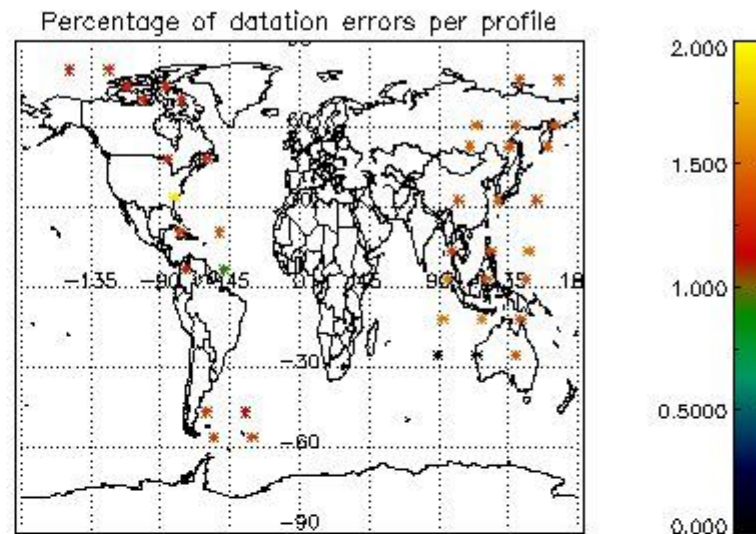
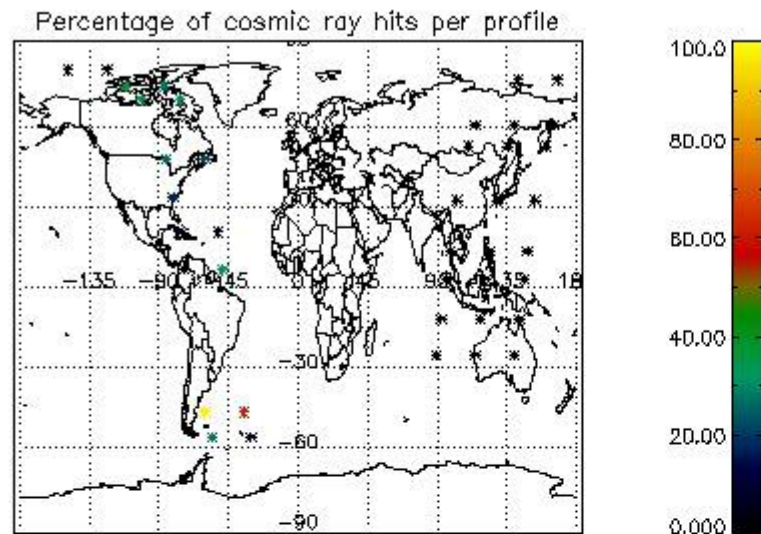
5.1 Percentage of products during reporting period with:

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)



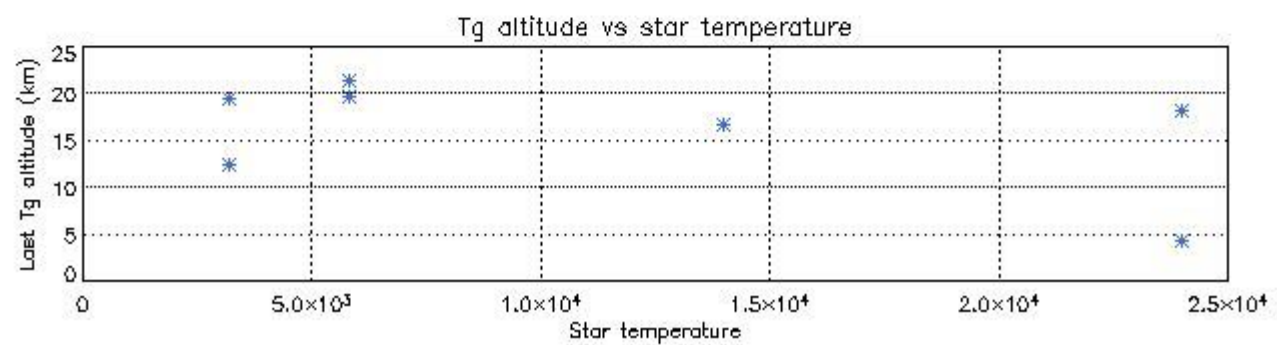
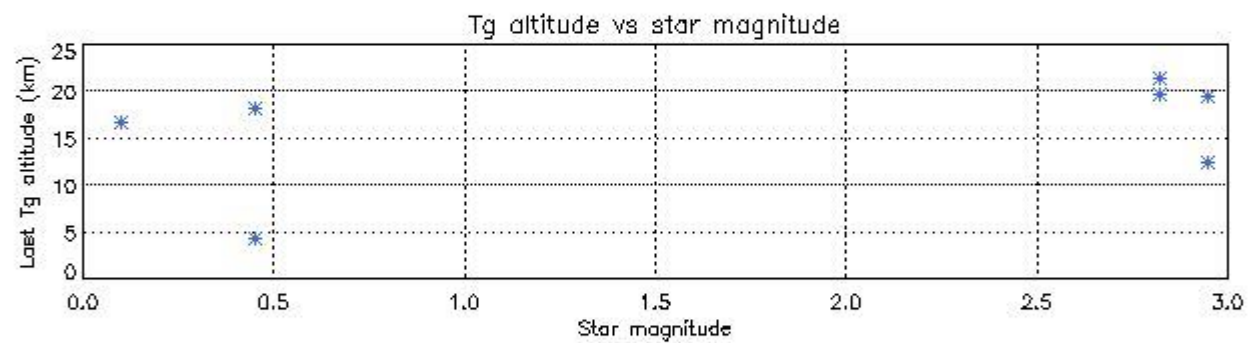
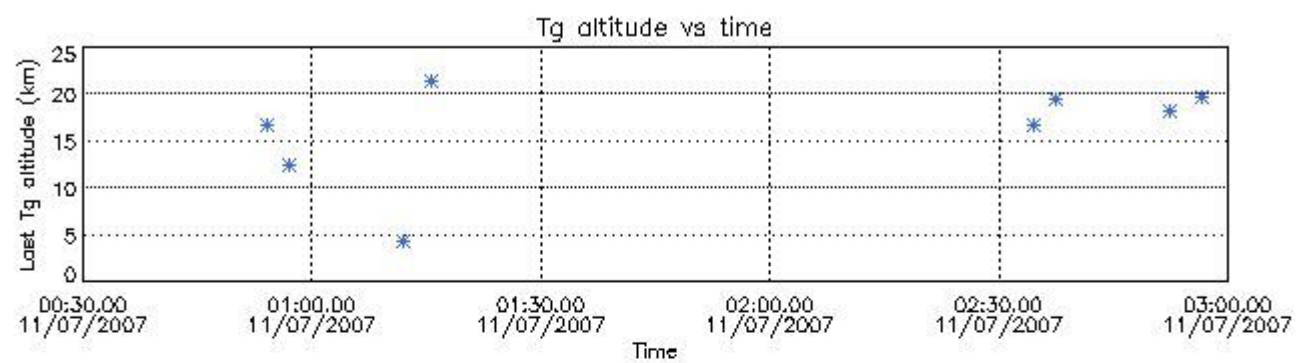
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.076	22.353	NaN
St. deviation:	5.4591	3.9943	NaN
Maximum:	21.261	29.629	NaN
Minimum:	4.3029	14.266	NaN
Number of data:	8.0000	25.000	NaN

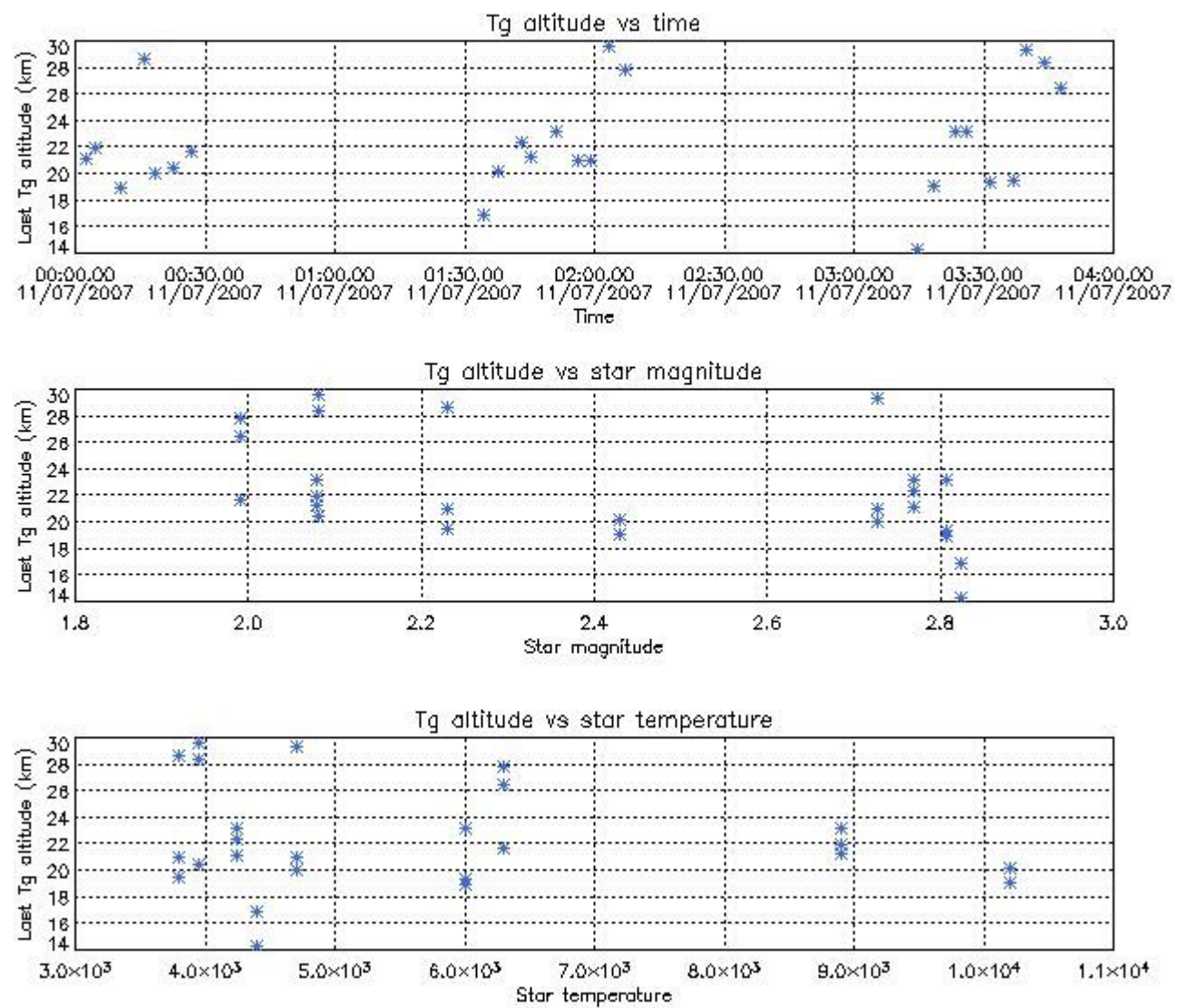
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

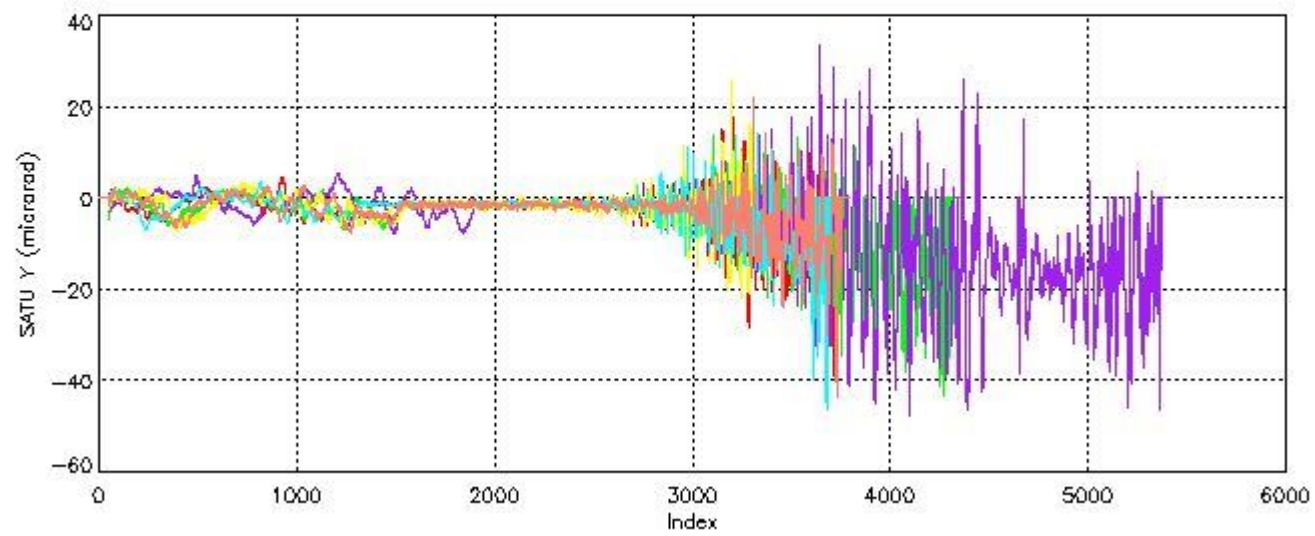
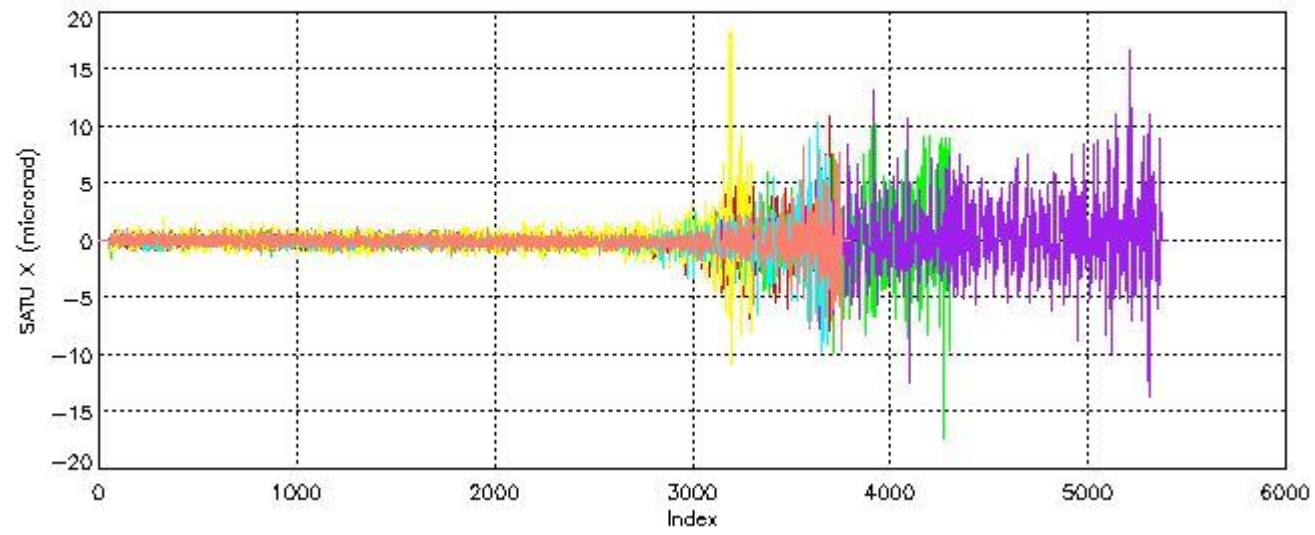


7. Star Acquisition and Tracking Unit (SATU)

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:	0.011415	-1.0369	0.095399	-1.1361
St. deviation:	0.38698	2.1229	0.62590	2.4153
Maximum:	2.7000	5.0000	3.2000	6.0000
Minimum:	-2.5000	-8.1000	-3.7000	-10.400

Number of data:	7100.0	7100.0	20550.	20550.
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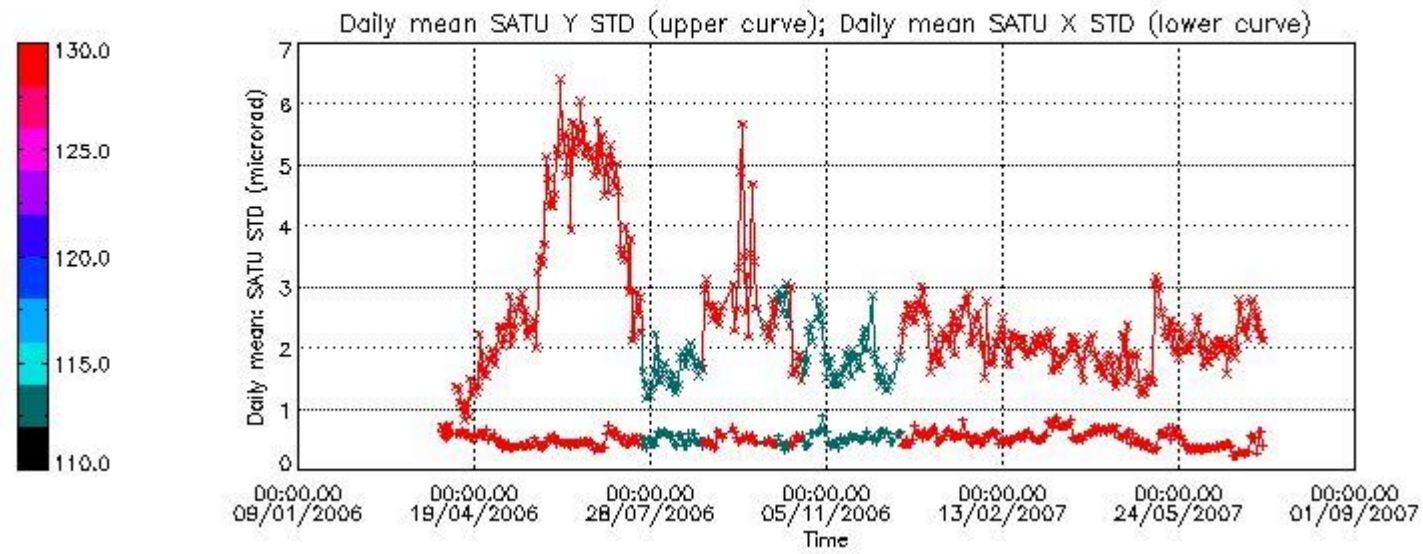
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

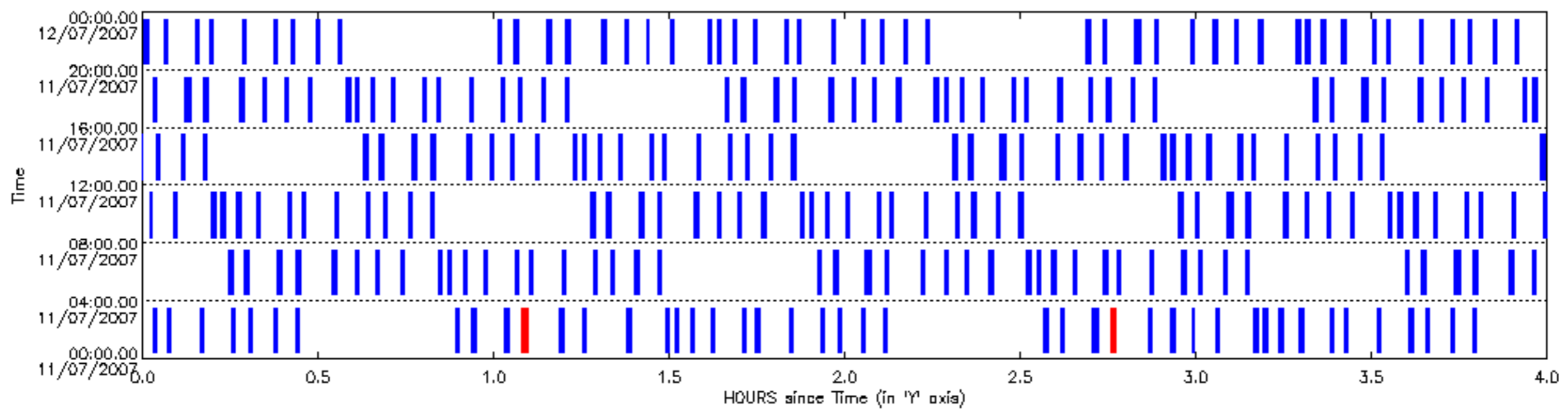
Lower curve: STD of SATU X axis

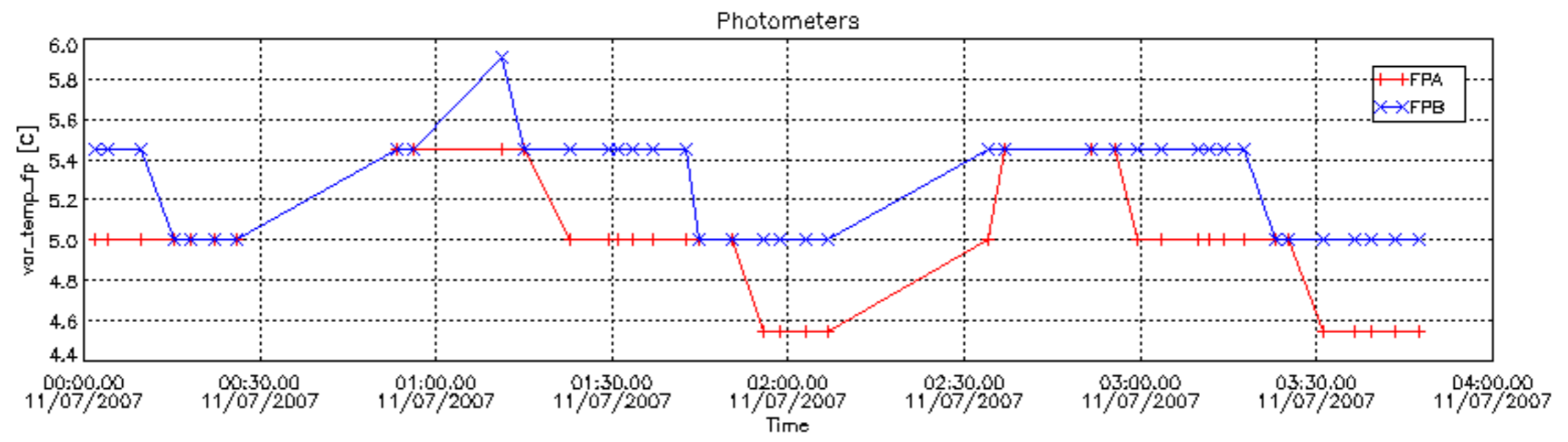
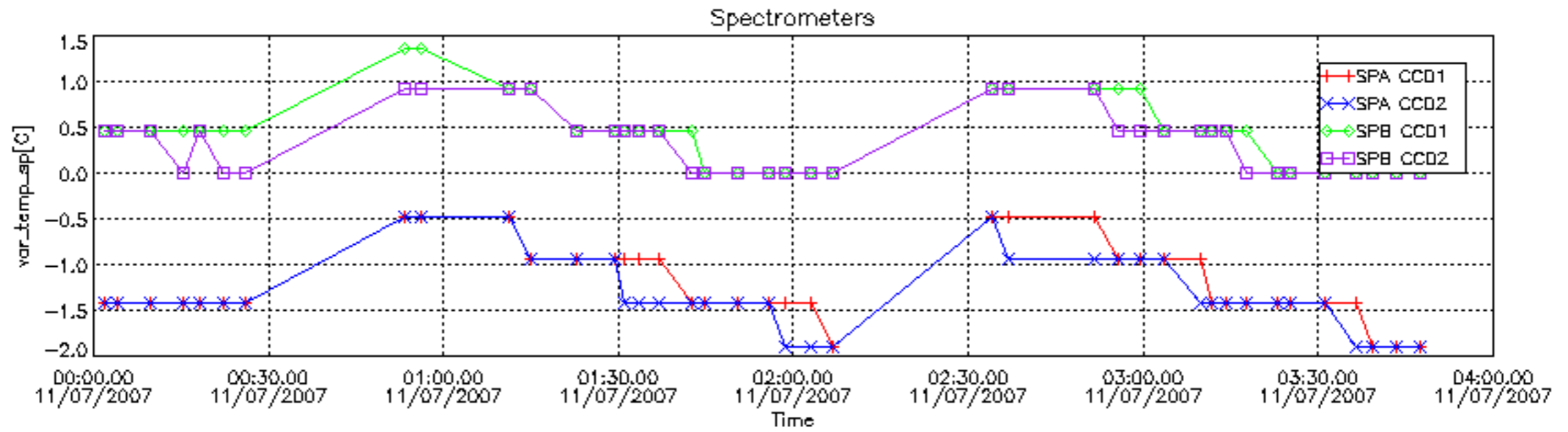


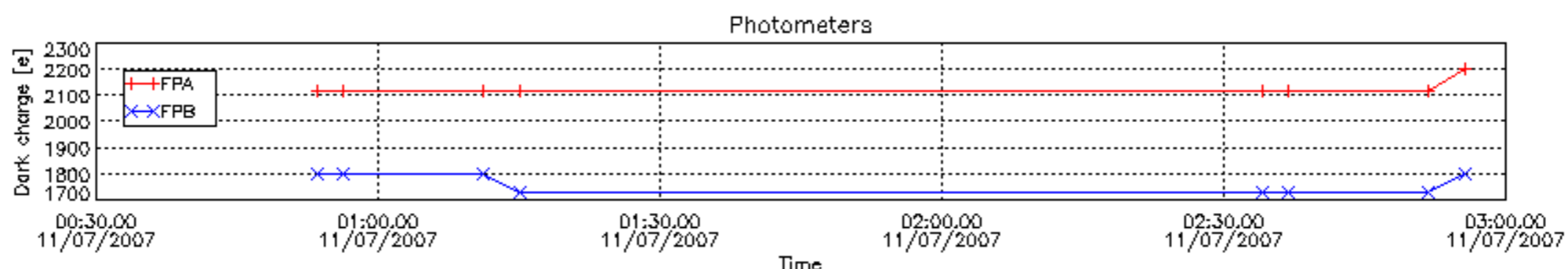
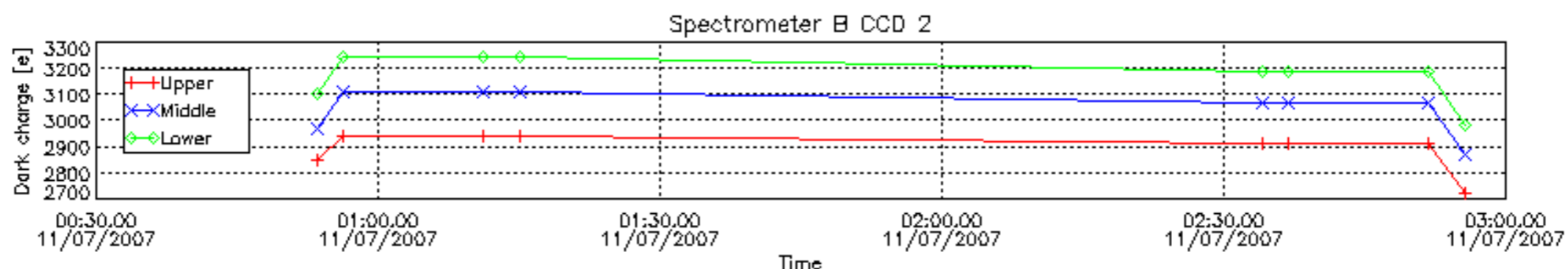
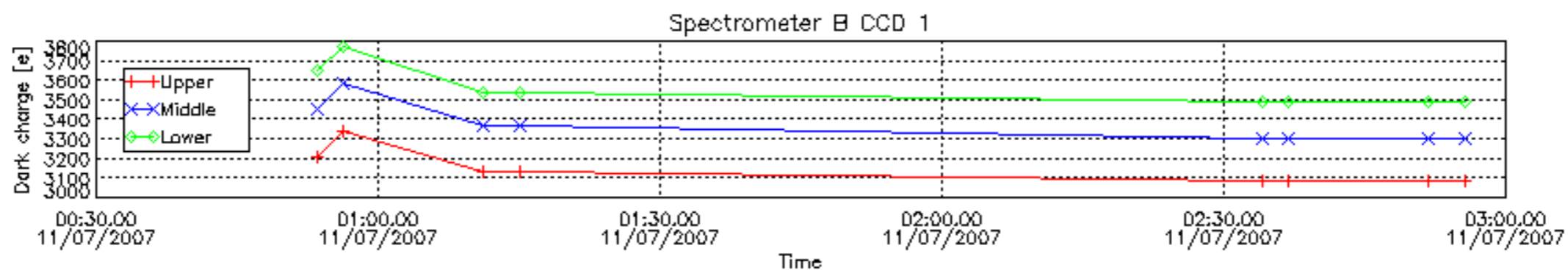
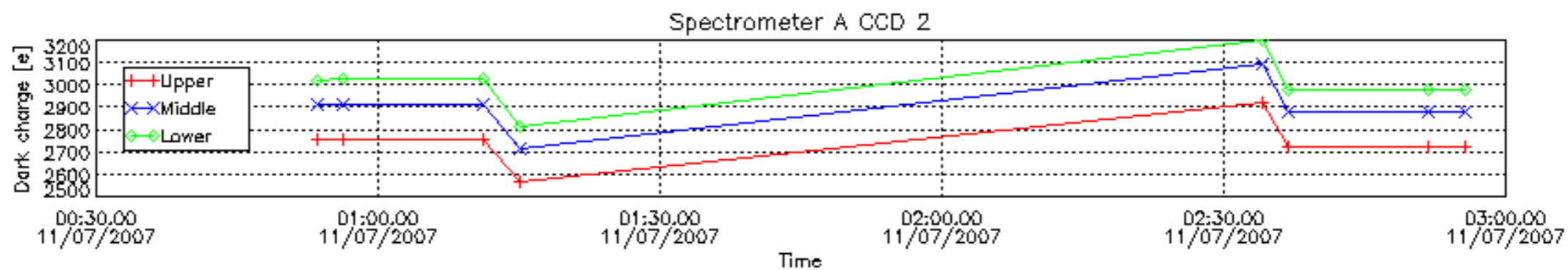
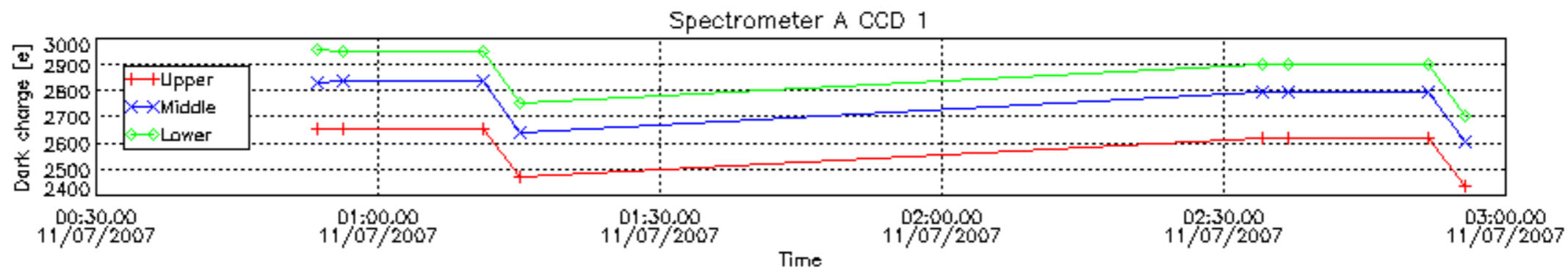
8. Auxiliary Data Files used for the production reported in section 2.4

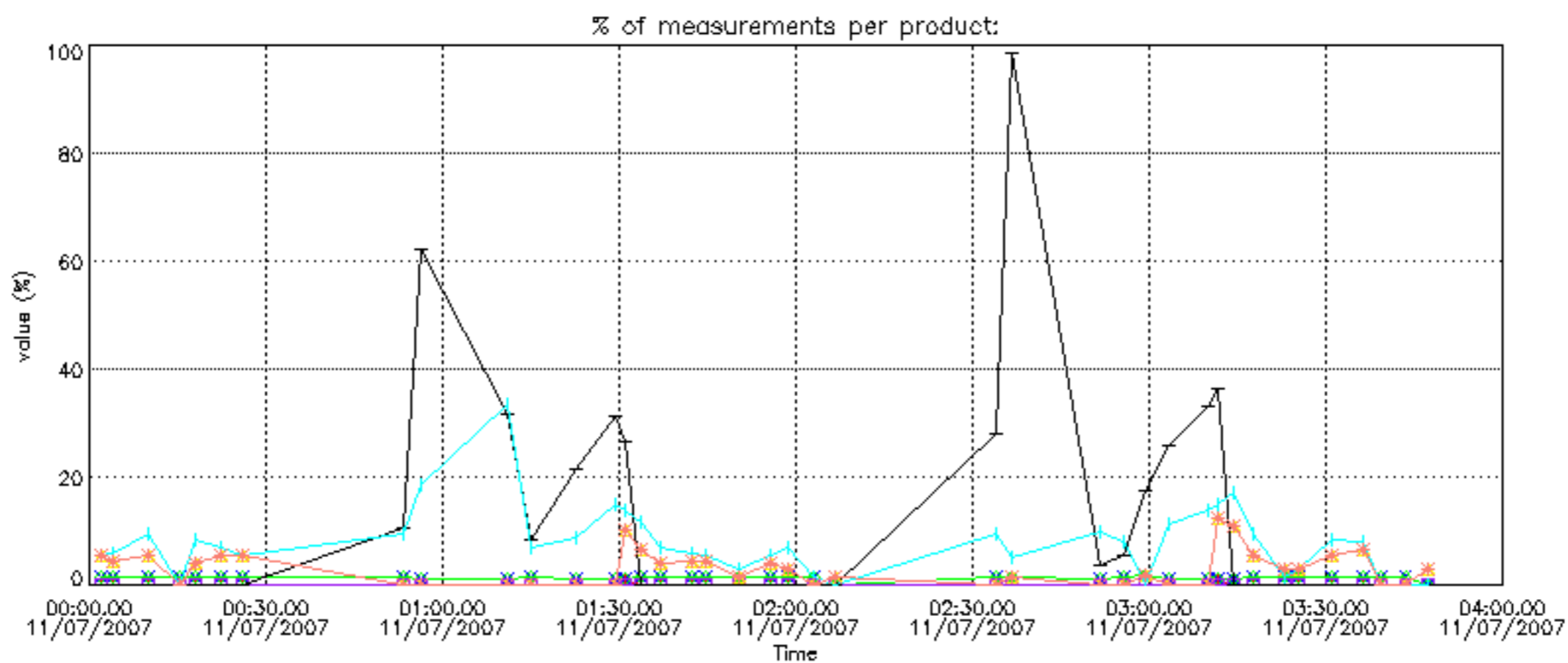
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	11-JUL-2007 00:01:50
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070702_090425_20070701_000000_20100101_000000	1	11-JUL-2007 00:01:50
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	11-JUL-2007 00:01:50
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	11-JUL-2007 00:01:50
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	11-JUL-2007 00:01:50
ECMWF_FILE	AUX_ECF_AXNECM20070710_061112_20070710_210000_20070711_090000	1	11-JUL-2007 00:01:50
OPTIONAL_ECMWF_FILE	MISSING	1	11-JUL-2007 00:01:50
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070710_213009_000060572059_00415_28024_3751.N1	1	11-JUL-2007 00:01:50
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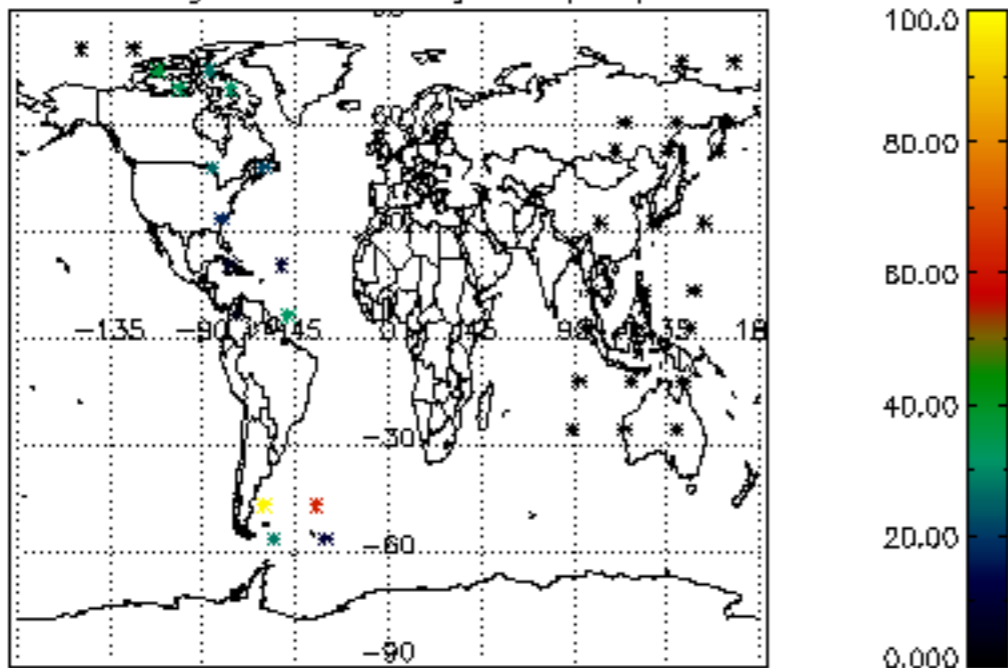




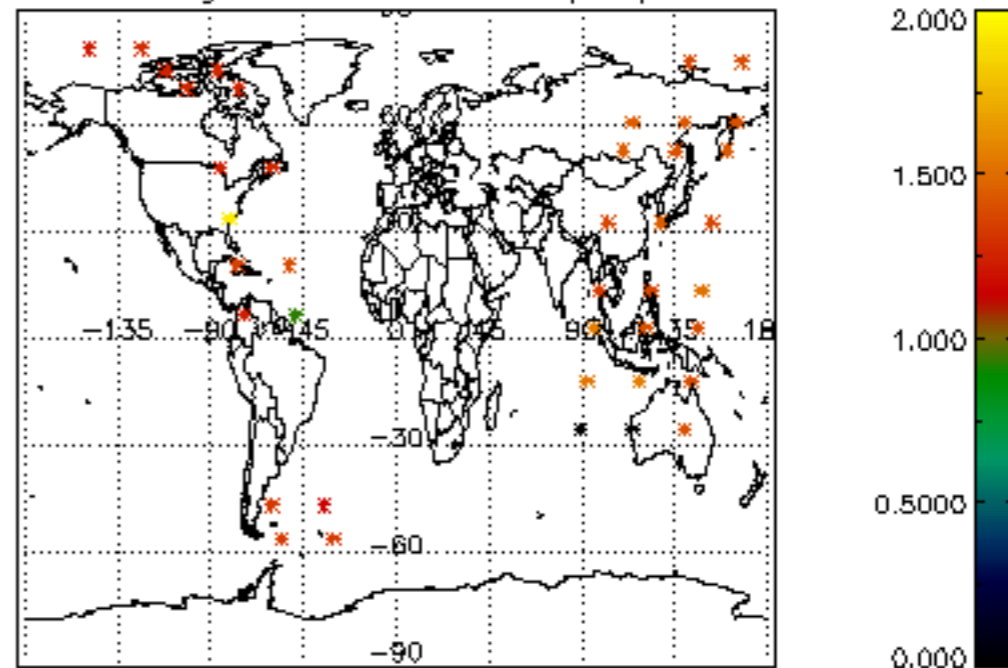




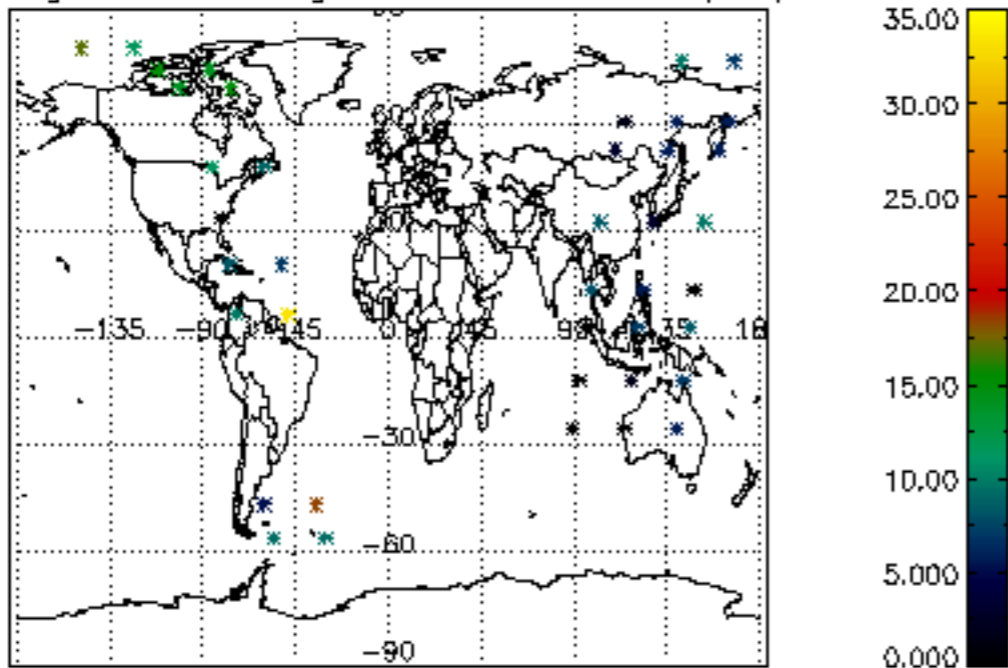
Percentage of cosmic ray hits per profile



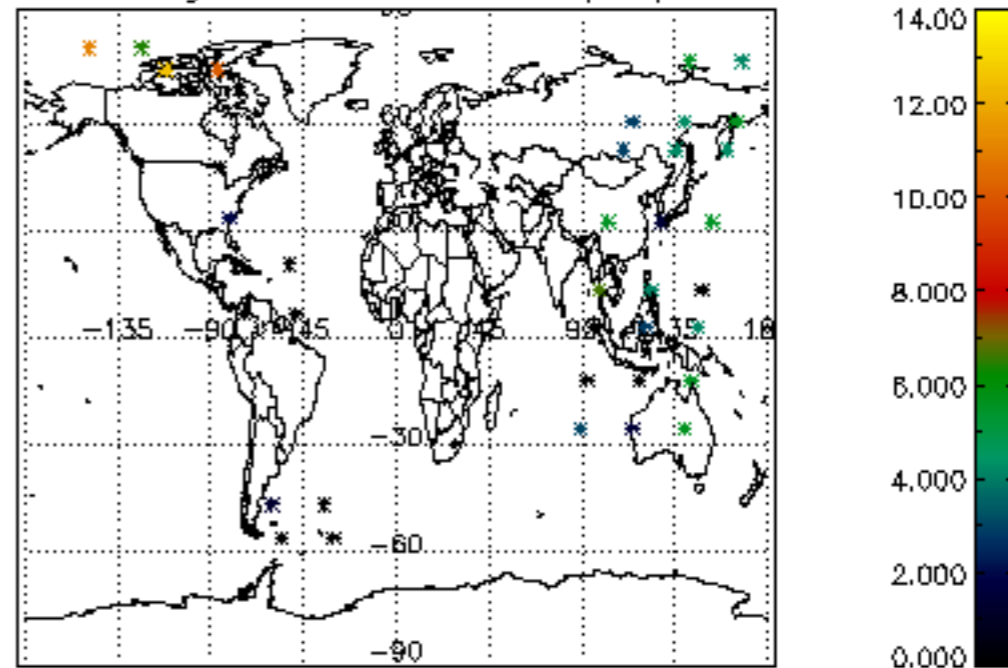
Percentage of datation errors per profile



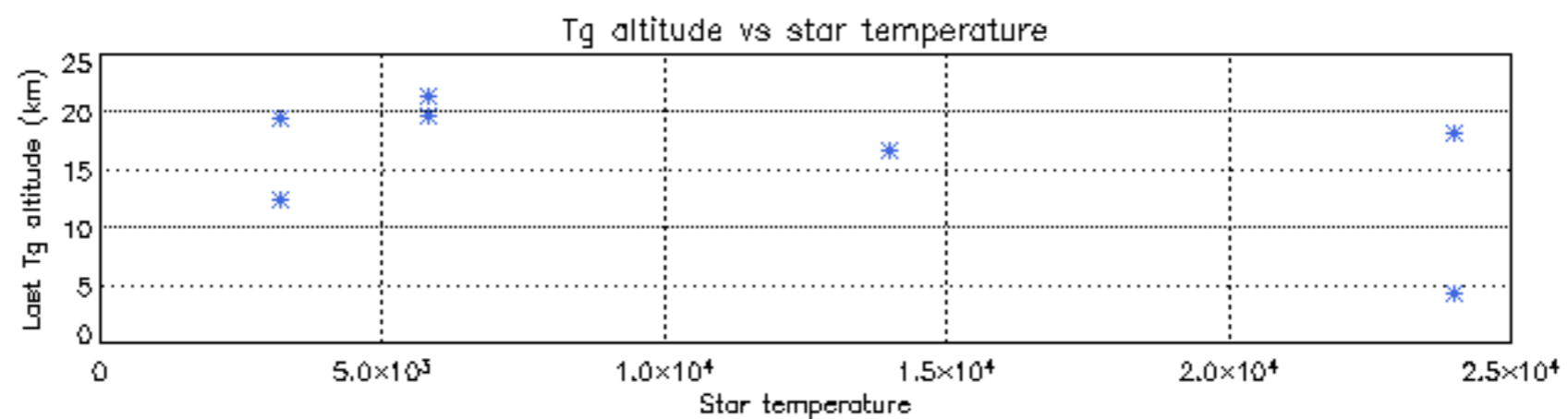
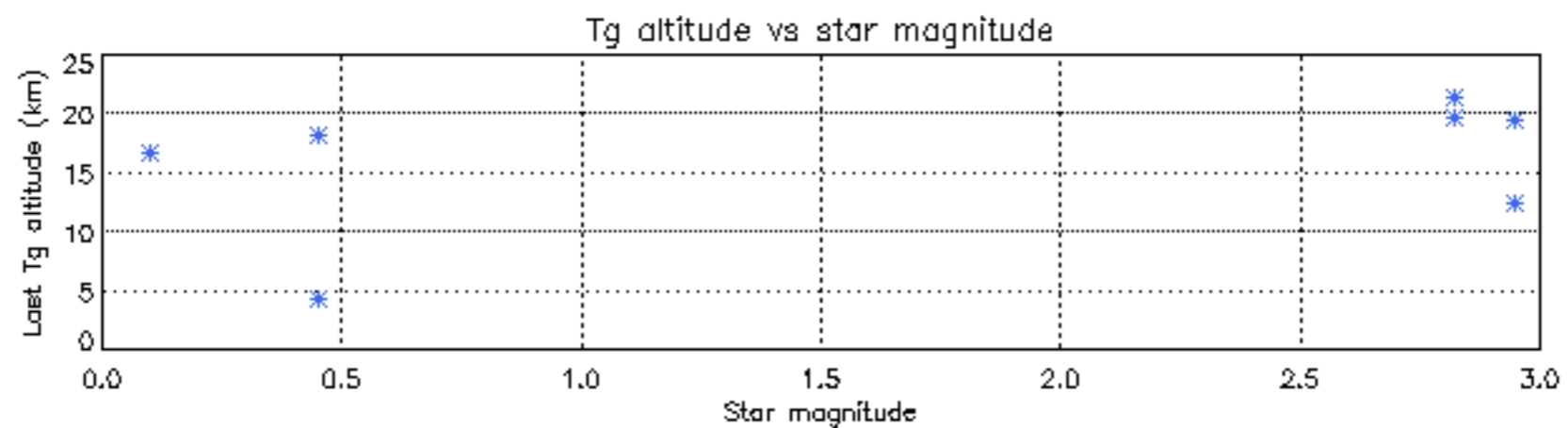
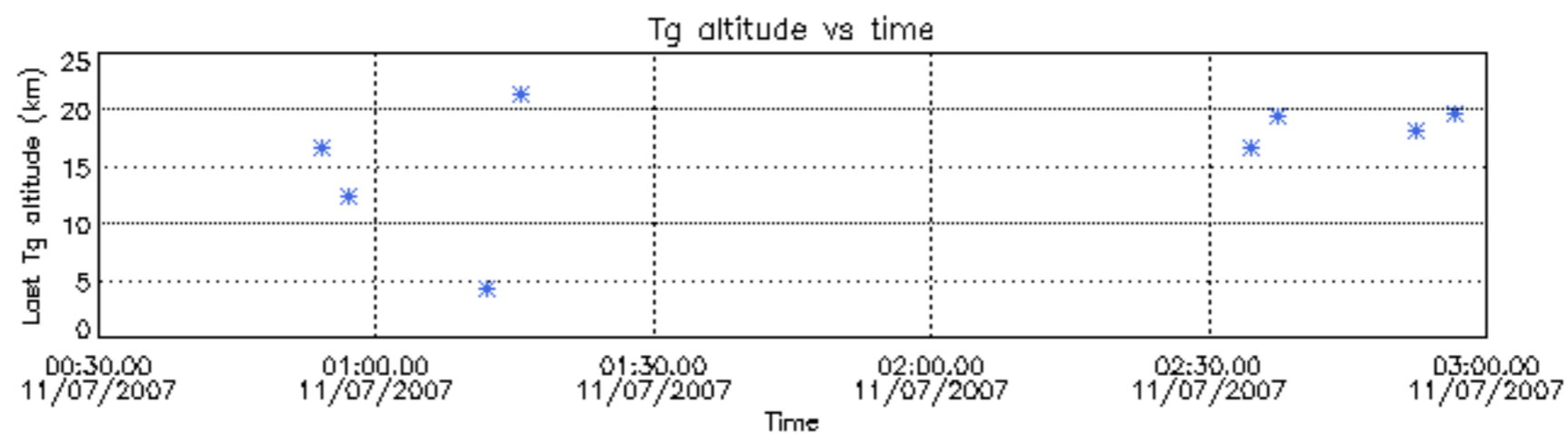
Percentage of star falling outside central band per profile



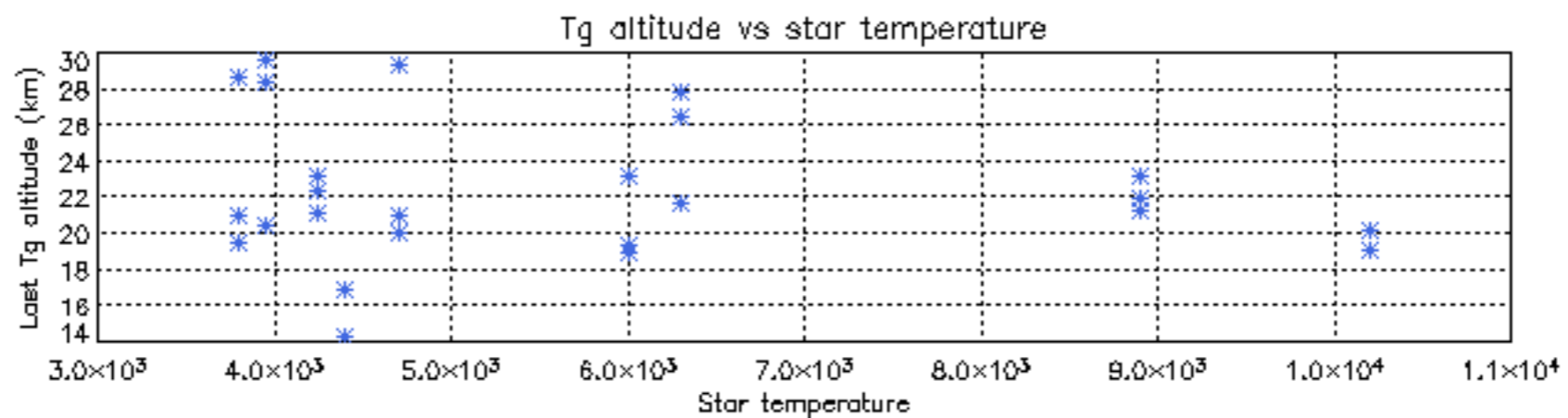
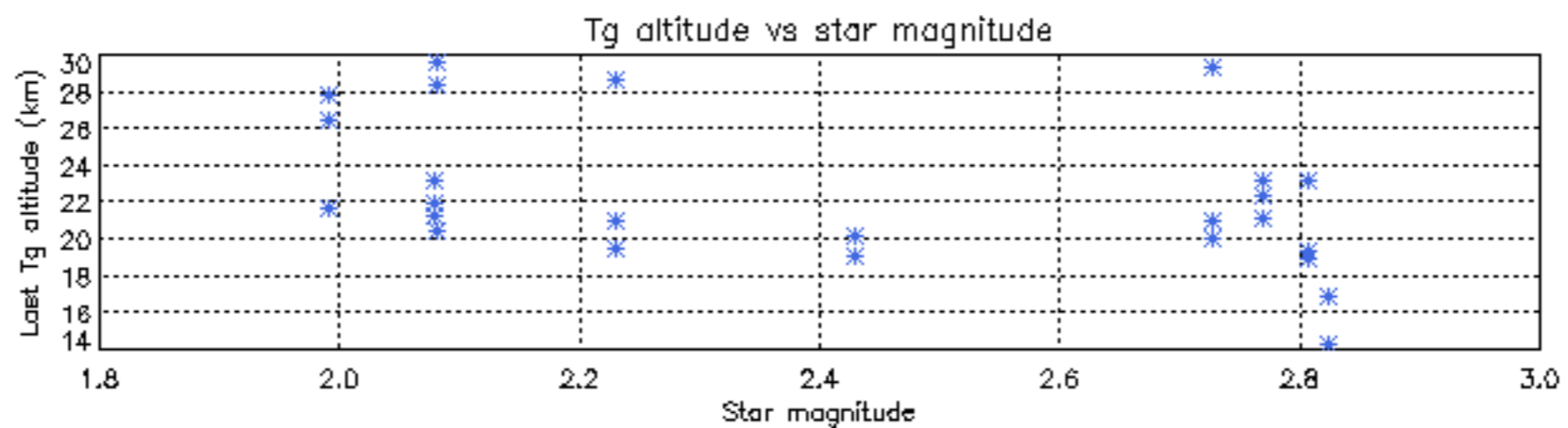
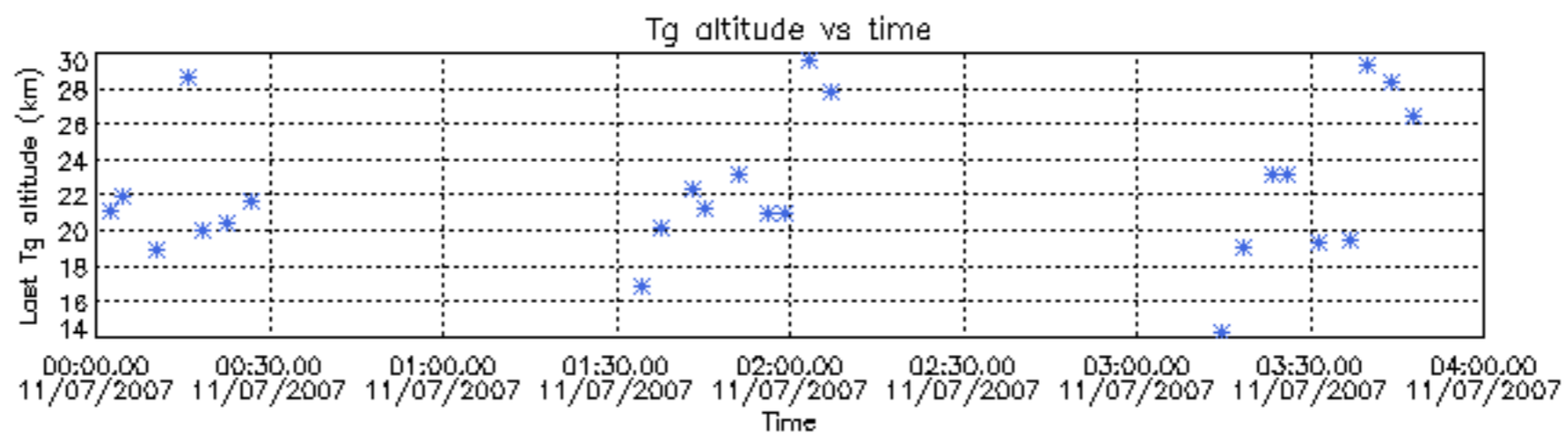
Percentage of saturation errors per profile

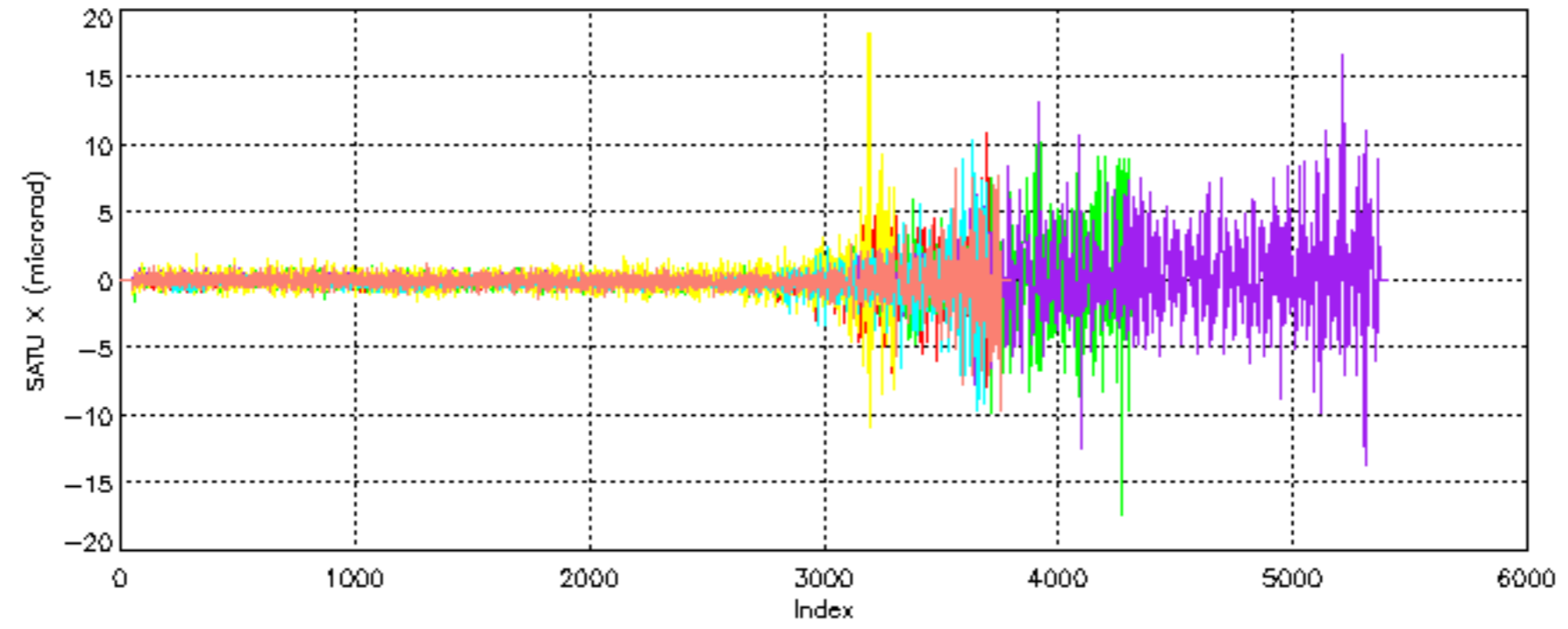


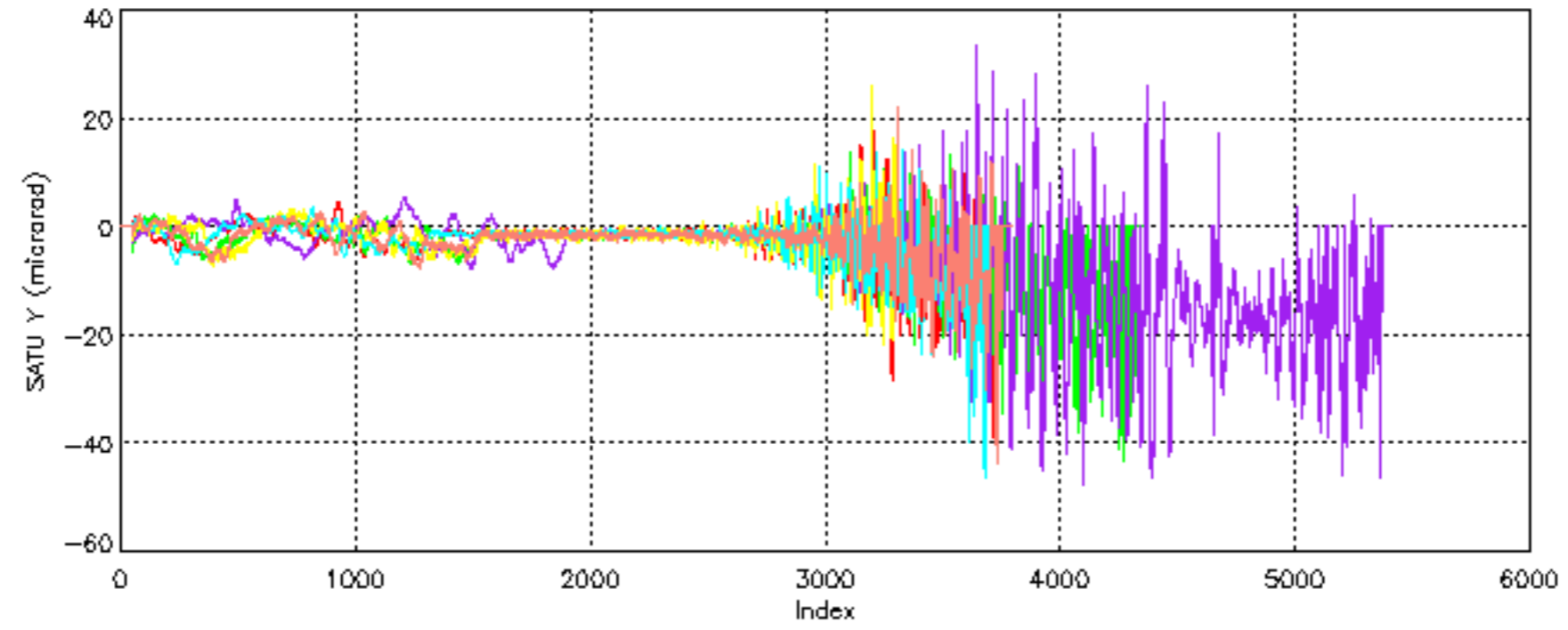
Tangent altitude at which the star is lost

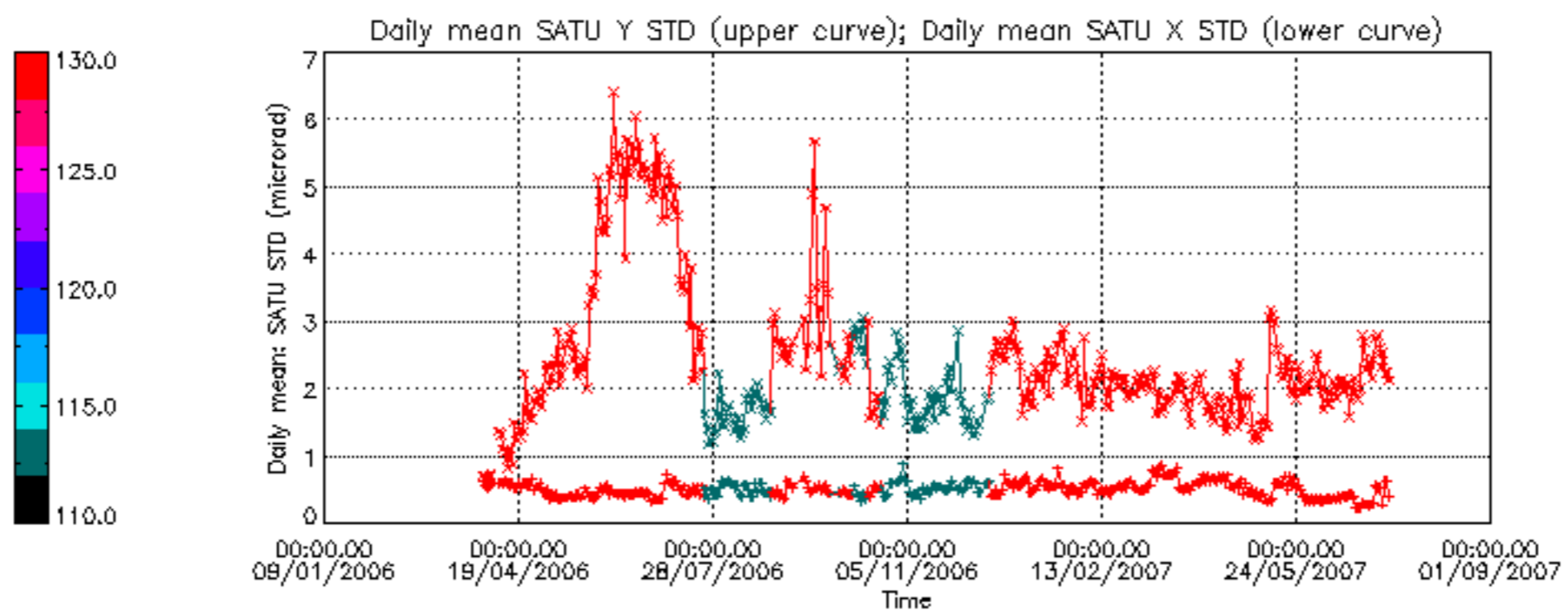


Tangent altitude at which the star is lost









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5; 3233.7; 17-JUL-2007 13:58:54; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;28120
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19; 6944.0; 31-JUL-2007 14:20:30; Dark ; 37.5; 45; Alp Pav ; 1.94; 26000;occ; 75; 0;28320
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