

GOMOS Daily Report 19-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	21JUL2007 05:35:06
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (19JUL2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (20JUL2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	48
Nb of prods with errors	1

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

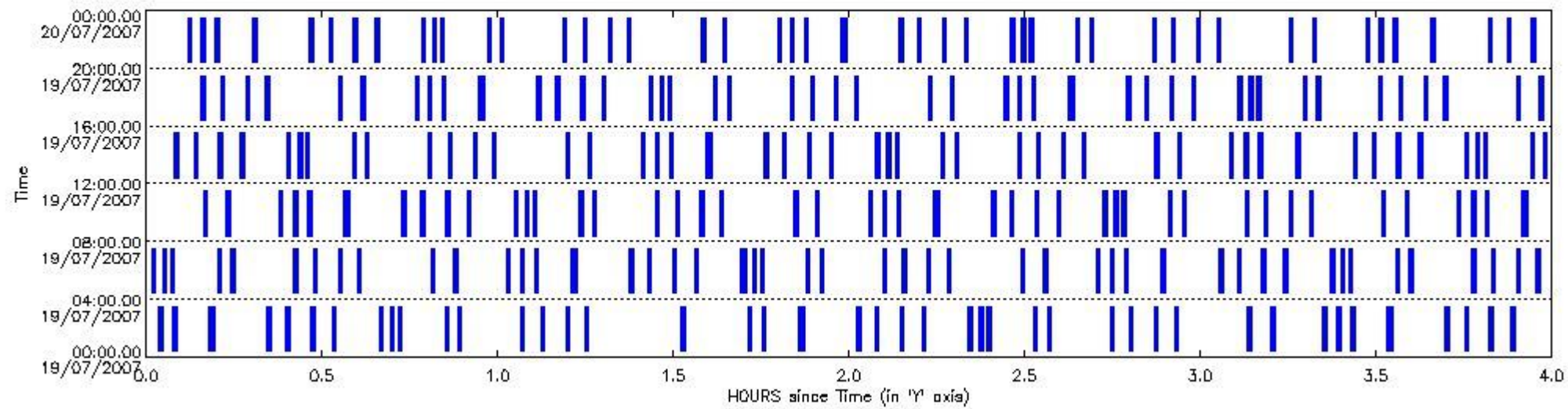
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

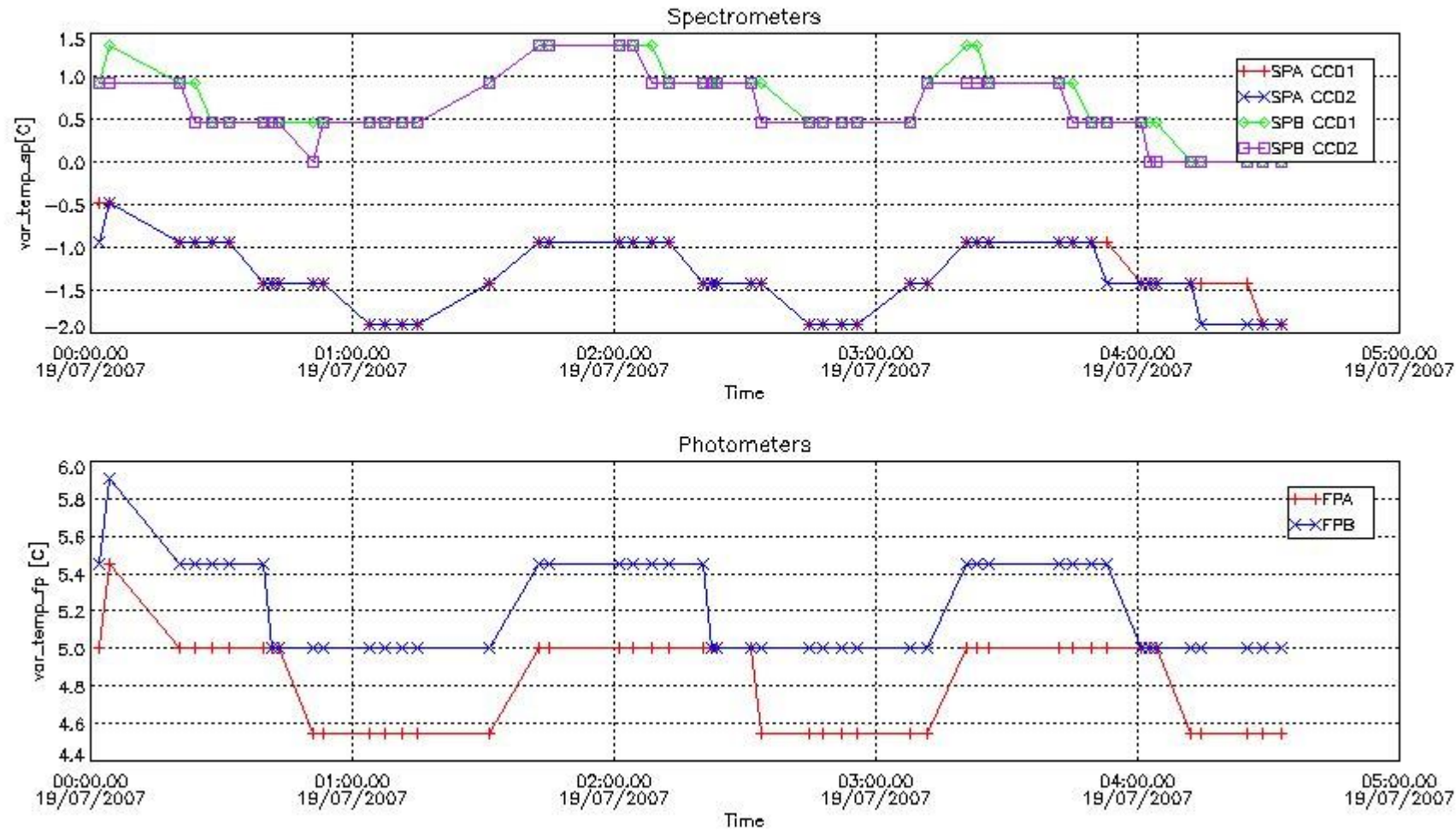
No missing products.

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_1PNPDE20070719_000206_000000472060_00030_28140_0983.N1	19-JUL-2007 00:02:06	Dark	47.000	7	19Bet Ori	0.10000	14000.	94	28140	No
2	GOM_TRA_1PNPDE20070719_000430_000000392060_00030_28140_1128.N1	19-JUL-2007 00:04:30	Dark	38.500	101	11Alp Lep	2.5820	7000.0	77	28140	Yes
3	GOM_TRA_1PNPDE20070719_002034_000000432060_00031_28141_1129.N1	19-JUL-2007 00:20:34	Dark	42.500	9	Alp Eri	0.45300	24000.	85	28141	No
4	GOM_TRA_1PNPDE20070719_002352_000000372060_00031_28141_1130.N1	19-JUL-2007 00:23:52	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	28141	No
5	GOM_TRA_1PNPDE20070719_002801_000000432060_00031_28141_1131.N1	19-JUL-2007 00:28:01	Straylight	42.500	148	Alp Tuc	2.8780	4100.0	85	28141	No
6	GOM_TRA_1PNPDE20070719_003147_000000392060_00031_28141_1132.N1	19-JUL-2007 00:31:47	Straylight	38.500	45	Alp Pav	1.9400	26000.	77	28141	No
7	GOM_TRA_1PNPDE20070719_003944_000000382060_00031_28141_1133.N1	19-JUL-2007 00:39:44	Twilight_stray	37.500	38	20Eps Sgr	1.8360	11000.	75	28141	No
8	GOM_TRA_1PNPDE20070719_004138_000000392060_00031_28141_1134.N1	19-JUL-2007 00:41:38	Bright	39.000	57	34Sig Sgr	2.0660	26000.	78	28141	No
9	GOM_TRA_1PNPDE20070719_004259_000000392060_00031_28141_1135.N1	19-JUL-2007 00:42:59	Bright	39.000	155	41Pi Sgr	2.9000	6600.0	78	28141	No
10	GOM_TRA_1PNPDE20070719_005056_000000362060_00031_28141_1136.N1	19-JUL-2007 00:50:56	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	28141	No
11	GOM_TRA_1PNPDE20070719_005314_000000362060_00031_28141_1137.N1	19-JUL-2007 00:53:14	Bright	36.000	59	55Alp Oph	2.0800	8900.0	72	28141	No
12	GOM_TRA_1PNPDE20070719_010357_000000372060_00031_28141_1138.N1	19-JUL-2007 01:03:57	Bright	37.000	69	33Gam Dra	2.2310	3800.0	74	28141	No

13	GOM_TRA_1PNPDE20070719_010719_000000362060_00031_28141_1139.N1	19-JUL-2007 01:07:19	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	28141	No
14	GOM_TRA_1PNPDE20070719_011133_000000372060_00031_28141_1140.N1	19-JUL-2007 01:11:33	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	28141	No
15	GOM_TRA_1PNPDE20070719_011458_000000362060_00031_28141_1141.N1	19-JUL-2007 01:14:58	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	28141	No
16	GOM_TRA_1PNPDE20070719_013116_000000402060_00031_28141_1142.N1	19-JUL-2007 01:31:16	Bright	40.000	114	3Iot Aur	2.6930	4600.0	80	28141	No
17	GOM_TRA_1PNPDE20070719_014242_000000412060_00031_28141_1266.N1	19-JUL-2007 01:42:42	Dark	40.500	7	19Bet Ori	0.10000	14000.	81	28141	No
18	GOM_TRA_1PNPDE20070719_014506_000000382060_00031_28141_1267.N1	19-JUL-2007 01:45:06	Dark	37.500	101	11Alp Lep	2.5820	7000.0	75	28141	No
19	GOM_TRA_1PNPDE20070719_020110_000000452060_00032_28142_1268.N1	19-JUL-2007 02:01:10	Dark	45.000	9	Alp Eri	0.45300	24000.	90	28142	No
20	GOM_TRA_1PNPDE20070719_020428_000000372060_00032_28142_1269.N1	19-JUL-2007 02:04:28	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	28142	No
21	GOM_TRA_1PNPDE20070719_020837_000000402060_00032_28142_1270.N1	19-JUL-2007 02:08:37	Straylight	39.500	148	Alp Tuc	2.8780	4100.0	79	28142	No
22	GOM_TRA_1PNPDE20070719_021223_000000432060_00032_28142_1271.N1	19-JUL-2007 02:12:23	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	28142	No
23	GOM_TRA_1PNPDE20070719_022020_000000402060_00032_28142_1272.N1	19-JUL-2007 02:20:20	Twilight_stray	40.000	38	20Eps Sgr	1.8360	11000.	80	28142	No
24	GOM_TRA_1PNPDE20070719_022214_000000382060_00032_28142_1273.N1	19-JUL-2007 02:22:14	Bright	37.500	57	34Sig Sgr	2.0660	26000.	75	28142	No
25	GOM_TRA_1PNPDE20070719_022336_000000392060_00032_28142_1274.N1	19-JUL-2007 02:23:36	Bright	39.000	155	41Pi Sgr	2.9000	6600.0	78	28142	No
26	GOM_TRA_1PNPDE20070719_023132_000000352060_00032_28142_1275.N1	19-JUL-2007 02:31:32	Bright	35.000	126	60Bet Oph	2.7700	4250.0	70	28142	No
27	GOM_TRA_1PNPDE20070719_023350_000000362060_00032_28142_1276.N1	19-JUL-2007 02:33:50	Bright	35.500	59	55Alp Oph	2.0800	8900.0	71	28142	No
28	GOM_TRA_1PNPDE20070719_024433_000000342060_00032_28142_1277.N1	19-JUL-2007 02:44:33	Bright	33.500	69	33Gam Dra	2.2310	3800.0	67	28142	No
29	GOM_TRA_1PNPDE20070719_024755_000000342060_00032_28142_1278.N1	19-JUL-2007 02:47:55	Bright	34.000	119	14Eta Dra	2.7270	4700.0	68	28142	No
30	GOM_TRA_1PNPDE20070719_025209_000000372060_00032_28142_1279.N1	19-JUL-2007 02:52:09	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	28142	No
31	GOM_TRA_1PNPDE20070719_025534_000000362060_00032_28142_1280.N1	19-JUL-2007 02:55:34	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	28142	No
32	GOM_TRA_1PNPDE20070719_030802_000000372060_00032_28142_1418.N1	19-JUL-2007 03:08:02	Bright	37.000	6	13Alp Aur	0.080000	3400.0	74	28142	No
33	GOM_TRA_1PNPDE20070719_031152_000000532060_00032_28142_1419.N1	19-JUL-2007 03:11:52	Bright	53.000	114	3Iot Aur	2.6930	4600.0	106	28142	No
34	GOM_TRA_1PNPDE20070719_032053_000000392060_00032_28142_1420.N1	19-JUL-2007 03:20:53	Dark	38.500	72	34Del Ori	2.2500	30000.	77	28142	No
35	GOM_TRA_1PNPDE20070719_032318_000000422060_00032_28142_1421.N1	19-JUL-2007 03:23:18	Dark	42.000	7	19Bet Ori	0.10000	14000.	84	28142	No
36	GOM_TRA_1PNPDE20070719_032542_000000392060_00032_28142_1422.N1	19-JUL-2007 03:25:42	Dark	39.000	101	11Alp Lep	2.5820	7000.0	78	28142	No
37	GOM_TRA_1PNPDE20070719_034147_000000452060_00033_28143_1423.N1	19-JUL-2007 03:41:47	Dark	44.500	9	Alp Eri	0.45300	24000.	89	28143	No
38	GOM_TRA_1PNPDE20070719_034504_000000362060_00033_28143_1424.N1	19-JUL-2007 03:45:04	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	28143	No
39	GOM_TRA_1PNPDE20070719_034914_000000422060_00033_28143_1425.N1	19-JUL-2007 03:49:14	Straylight	42.000	148	Alp Tuc	2.8780	4100.0	84	28143	No
40	GOM_TRA_1PNPDE20070719_035300_000000422060_00033_28143_1426.N1	19-JUL-2007 03:53:00	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	28143	No
41	GOM_TRA_1PNPDE20070719_040056_000000402060_00033_28143_1427.N1	19-JUL-2007 04:00:56	Twilight_stray	40.000	38	20Eps Sgr	1.8360	11000.	80	28143	No
42	GOM_TRA_1PNPDE20070719_040250_000000402060_00033_28143_1428.N1	19-JUL-2007 04:02:50	Bright	39.500	57	34Sig Sgr	2.0660	26000.	79	28143	No
43	GOM_TRA_1PNPDE20070719_040412_000000392060_00033_28143_1429.N1	19-JUL-2007 04:04:12	Bright	38.500	155	41Pi Sgr	2.9000	6600.0	77	28143	No
44	GOM_TRA_1PNPDE20070719_041208_000000362060_00033_28143_1430.N1	19-JUL-2007 04:12:08	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	28143	No
45	GOM_TRA_1PNPDE20070719_041426_000000362060_00033_28143_1431.N1	19-JUL-2007 04:14:26	Bright	36.000	59	55Alp Oph	2.0800	8900.0	72	28143	No
46	GOM_TRA_1PNPDE20070719_042509_000000372060_00033_28143_1432.N1	19-JUL-2007 04:25:09	Bright	37.000	69	33Gam Dra	2.2310	3800.0	74	28143	No
47	GOM_TRA_1PNPDE20070719_042831_000000332060_00033_28143_1433.N1	19-JUL-2007 04:28:31	Bright	32.500	119	14Eta Dra	2.7270	4700.0	65	28143	No
48	GOM_TRA_1PNPDE20070719_043245_000000372060_00033_28143_1434.N1	19-JUL-2007 04:32:45	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	28143	No

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



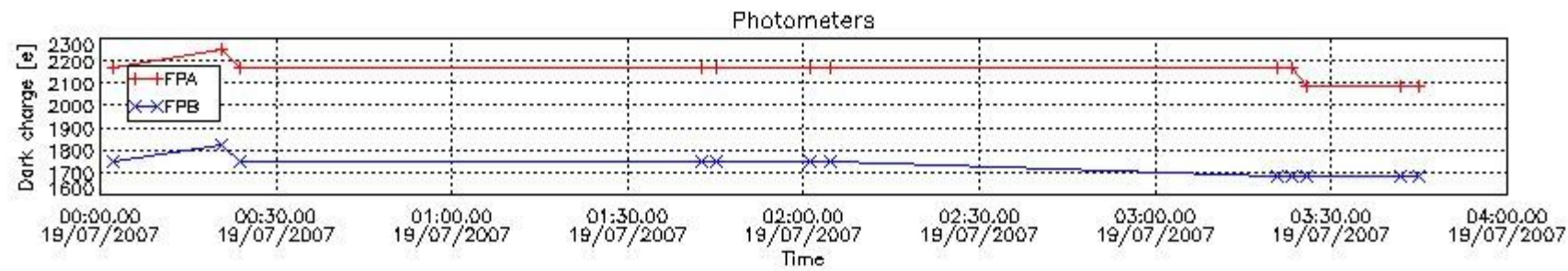
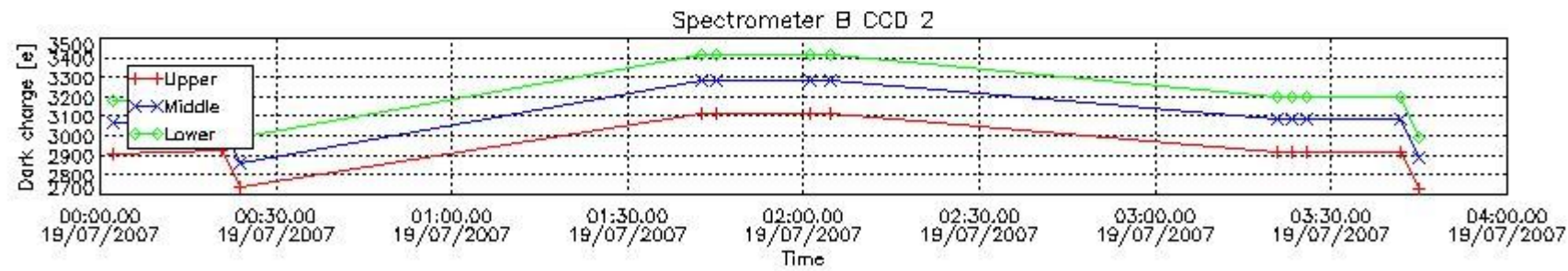
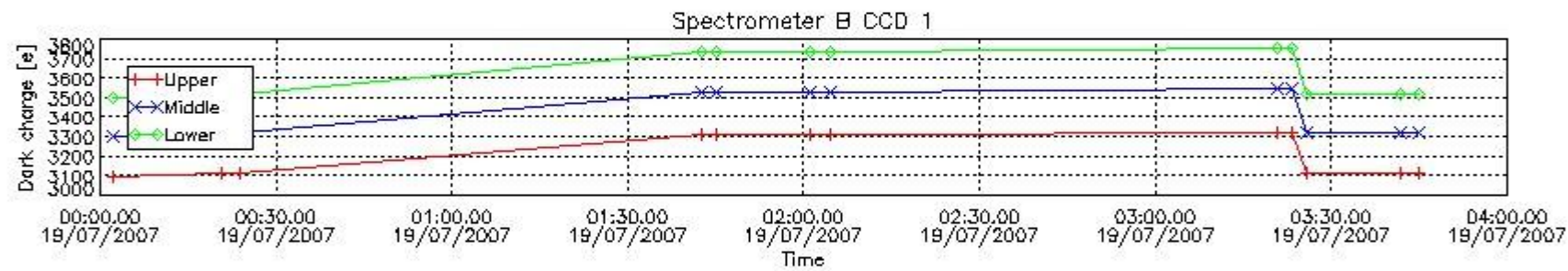
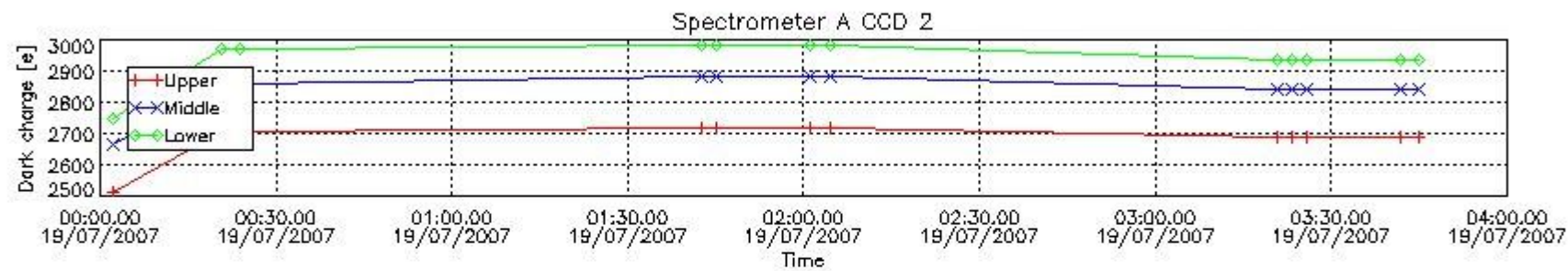
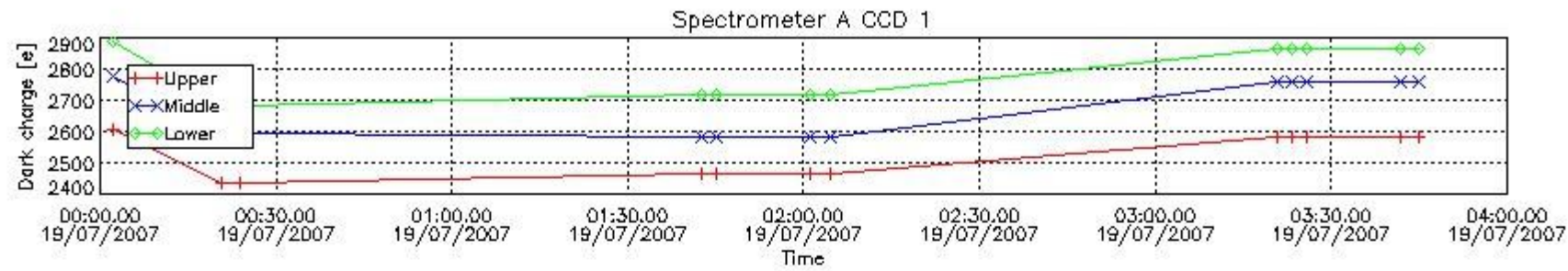
4. Overview of dark signal processing per product

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



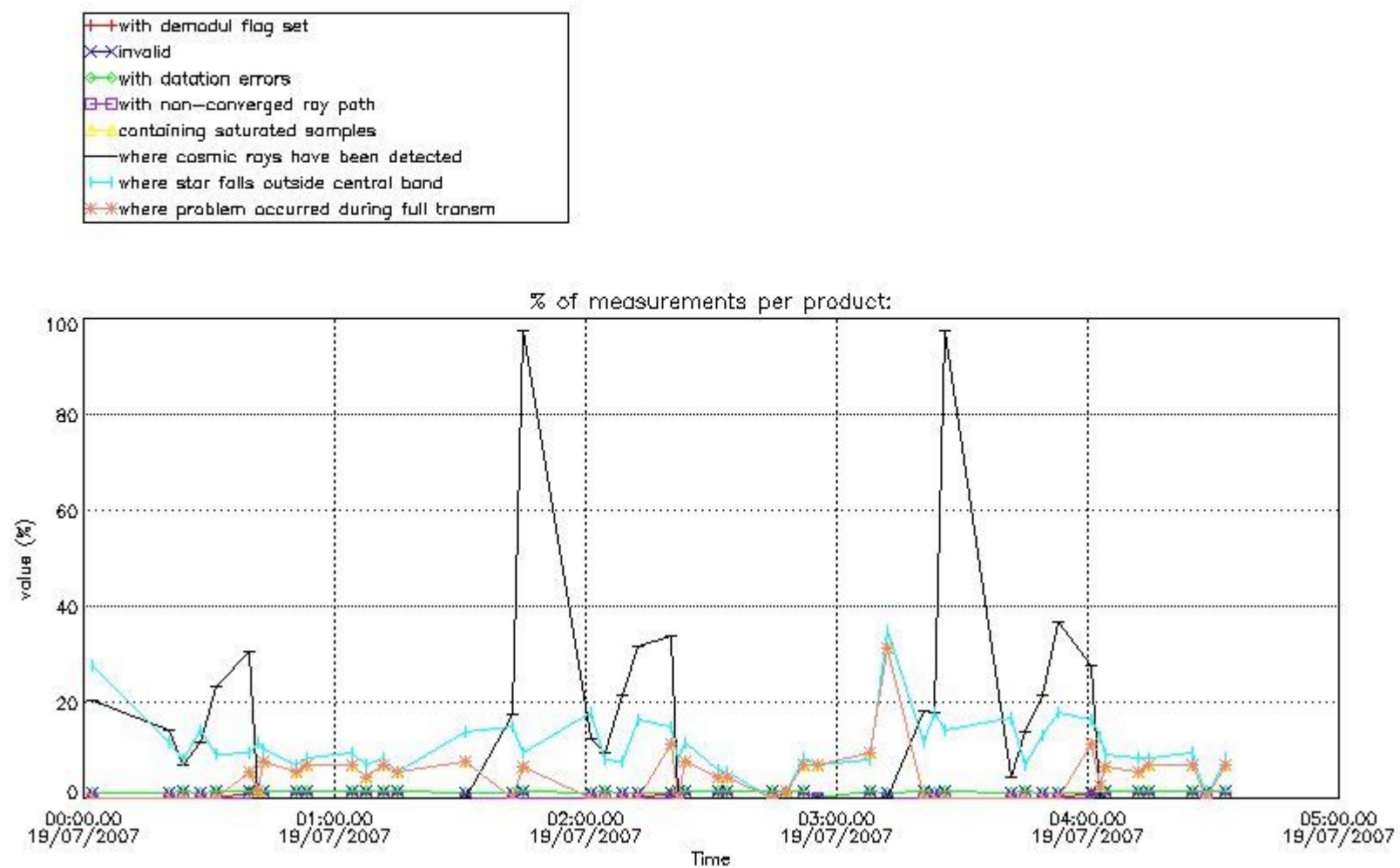
5. Demodulation flag and quality information monitoring

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.

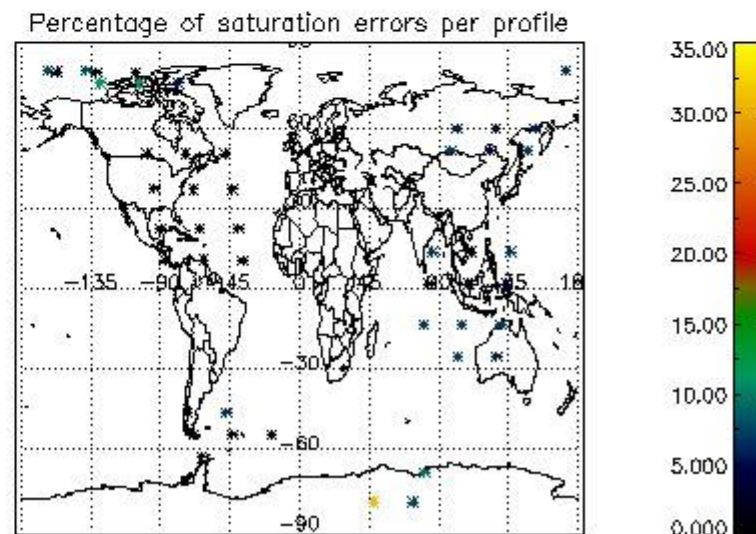
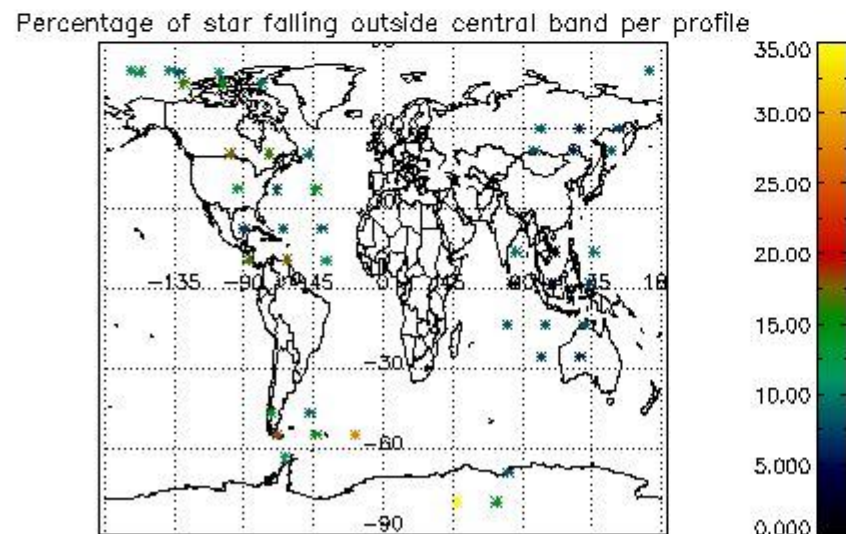
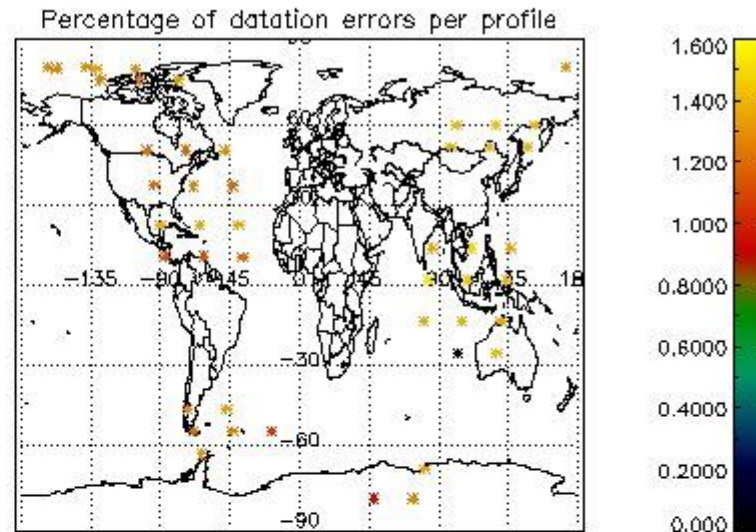
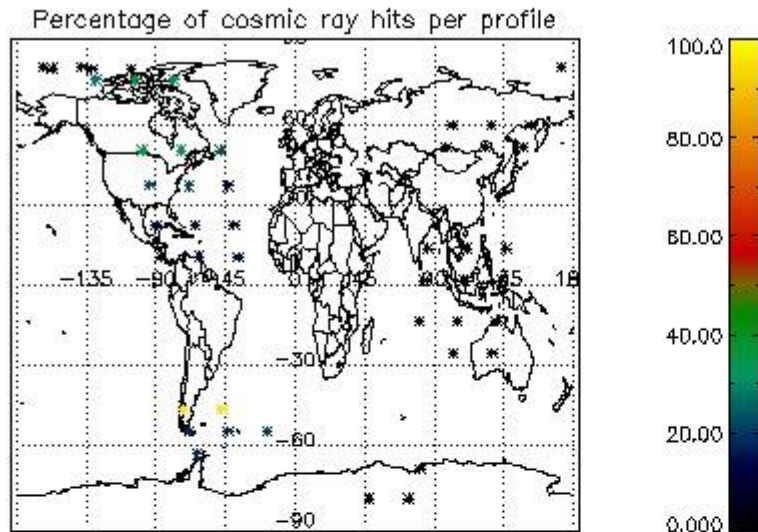
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	17.0213 %
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)



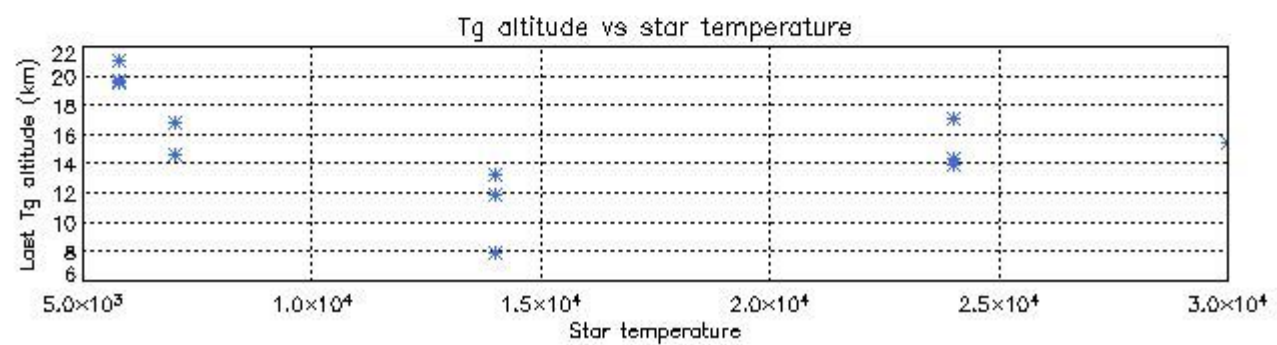
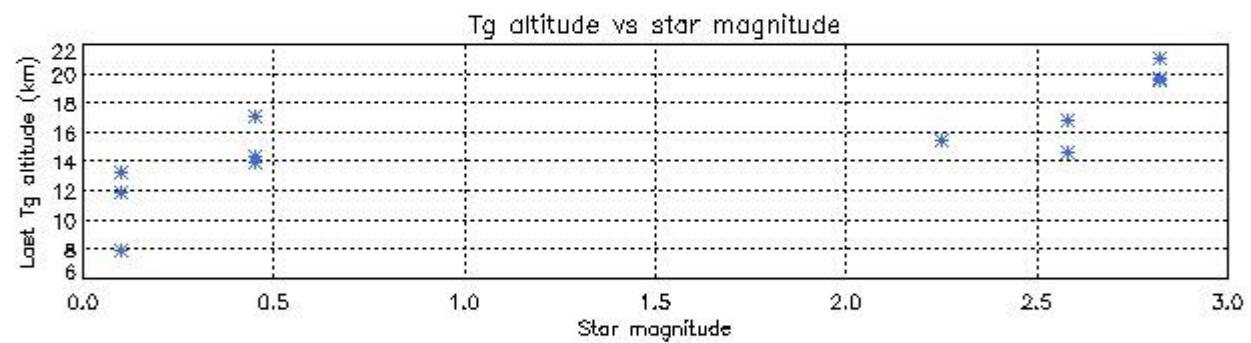
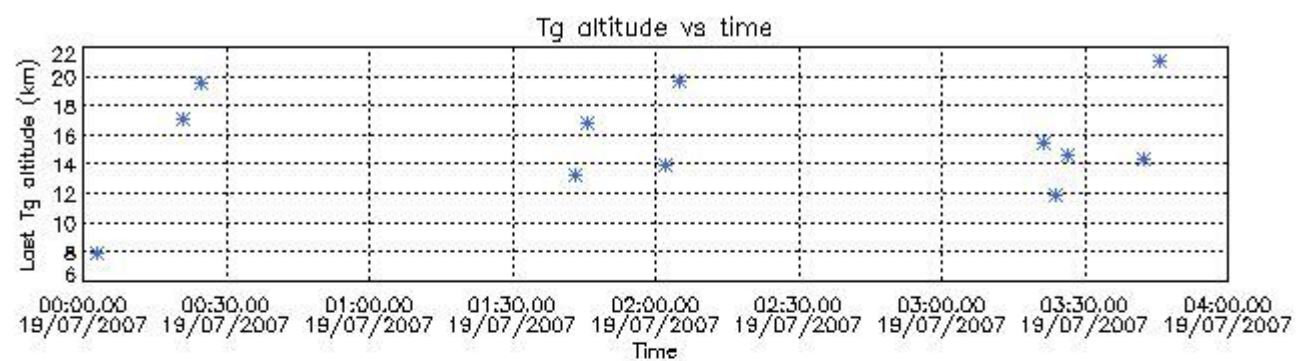
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.465	19.567	NaN
St. deviation:	3.6672	4.1362	NaN
Maximum:	21.004	28.104	NaN
Minimum:	7.9366	4.7759	NaN
Number of data:	12.000	26.000	NaN

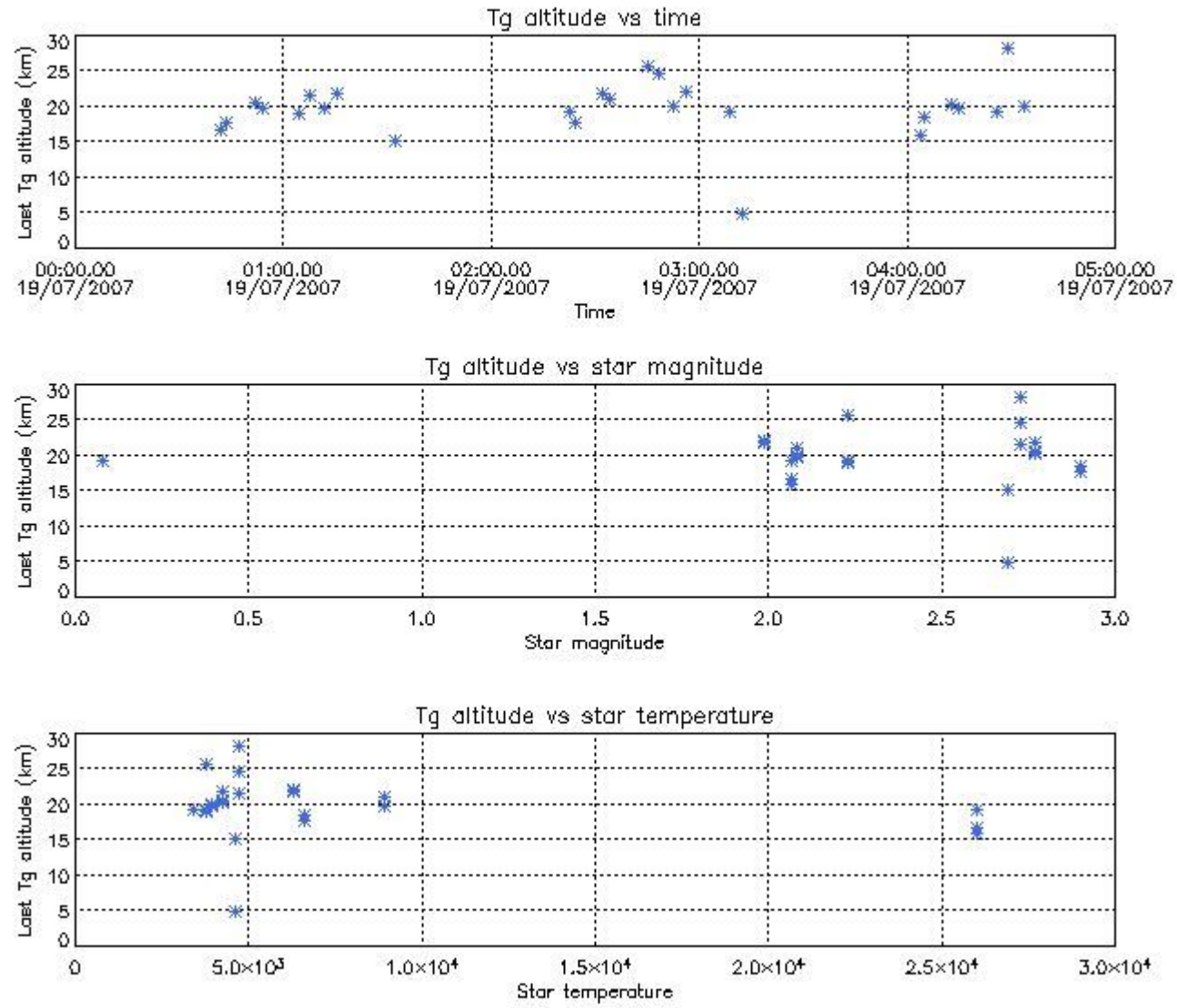
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

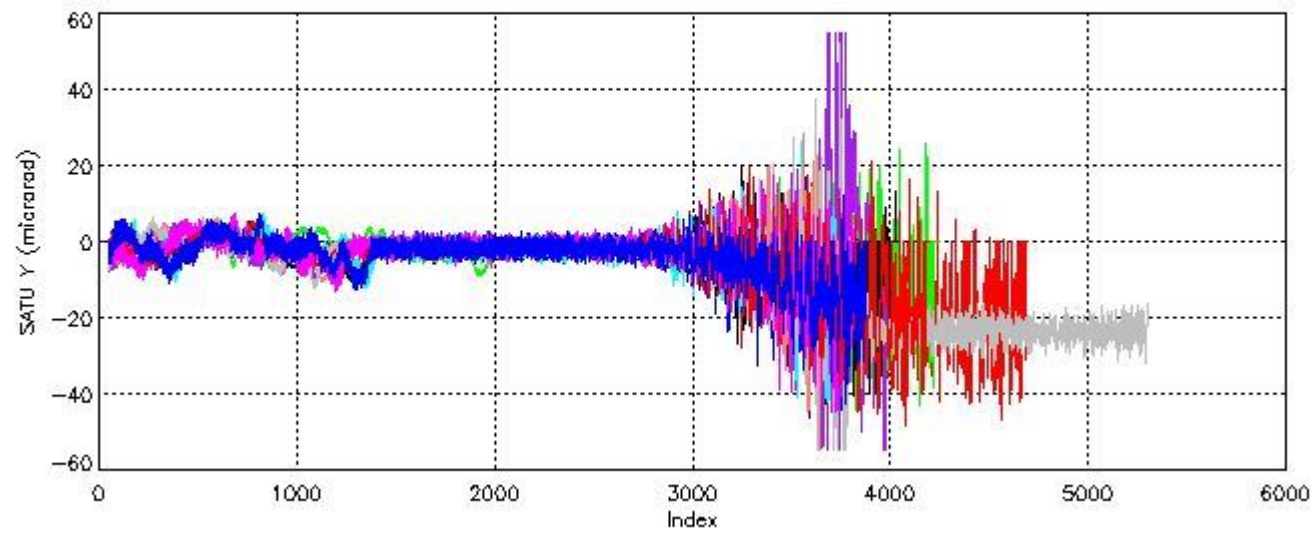
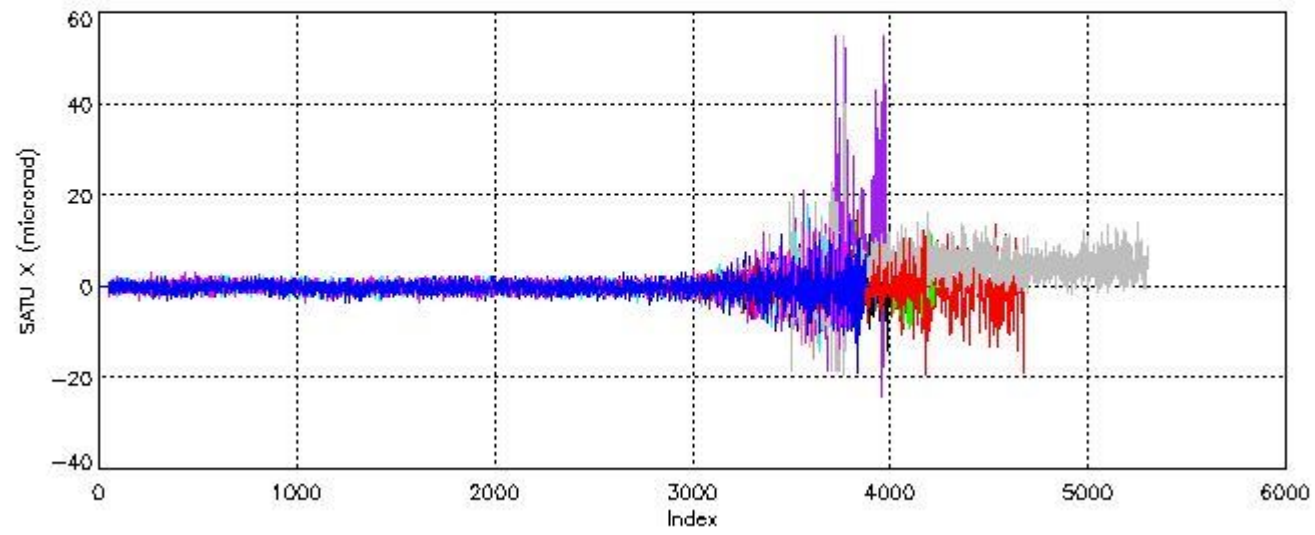


7. Star Acquisition and Tracking Unit (SATU)

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:	0.021692	-0.85633	0.063622	-0.93510
St. deviation:	0.52337	2.7901	0.63165	2.7647
Maximum:	2.9000	7.6000	4.2000	7.4000
Minimum:	-3.3000	-11.000	-4.1000	-10.800

Number of data:	10600.	10600.	21600.	21600.
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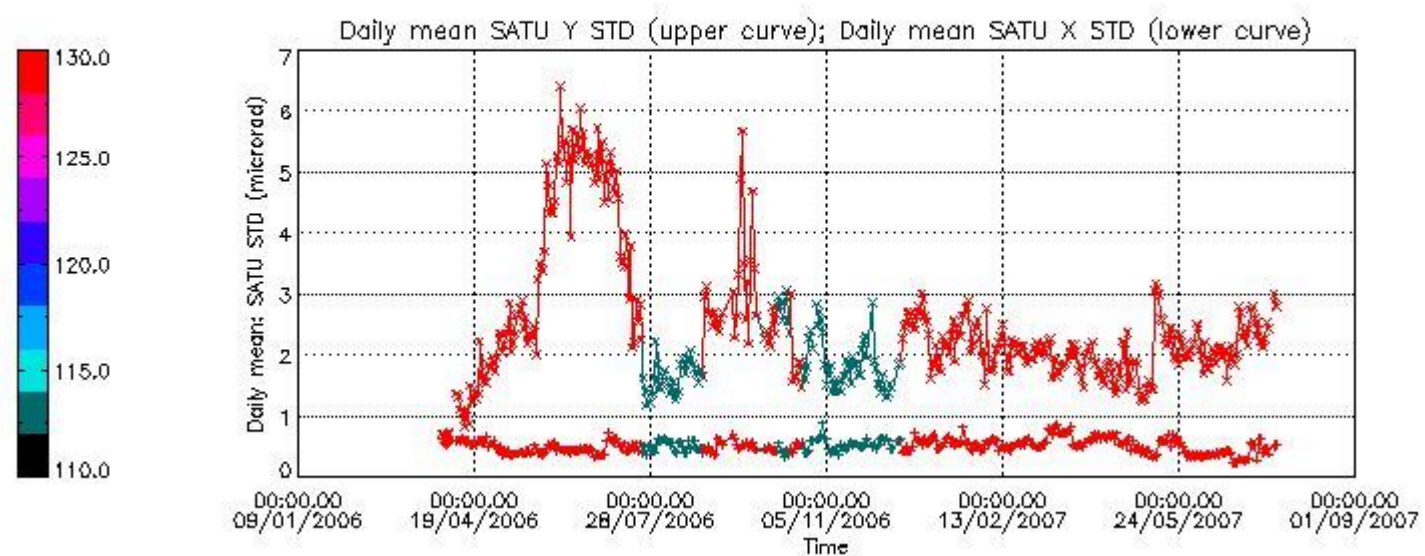
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

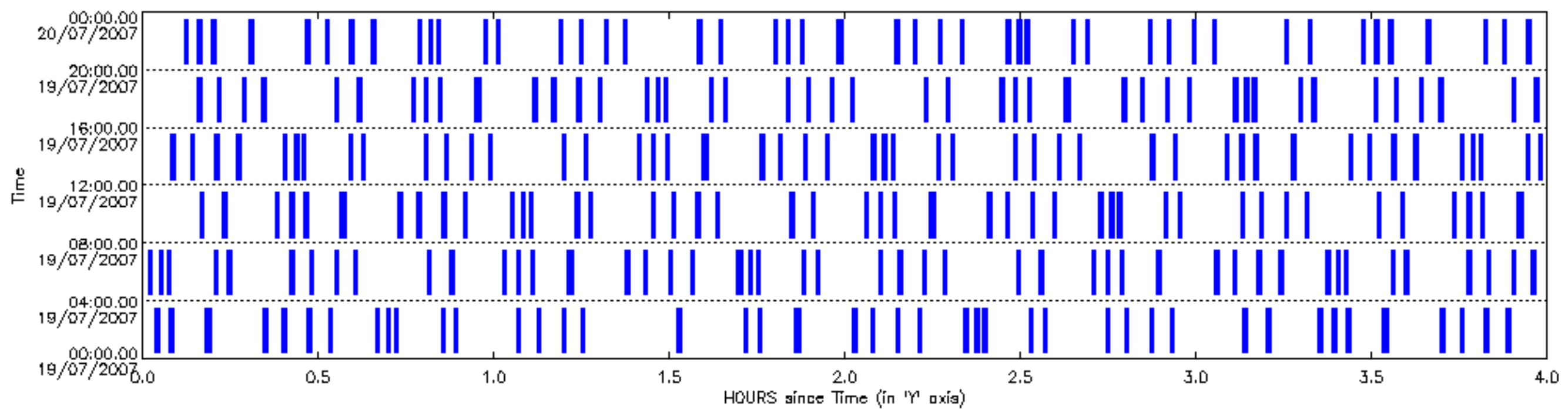
Lower curve: STD of SATU X axis

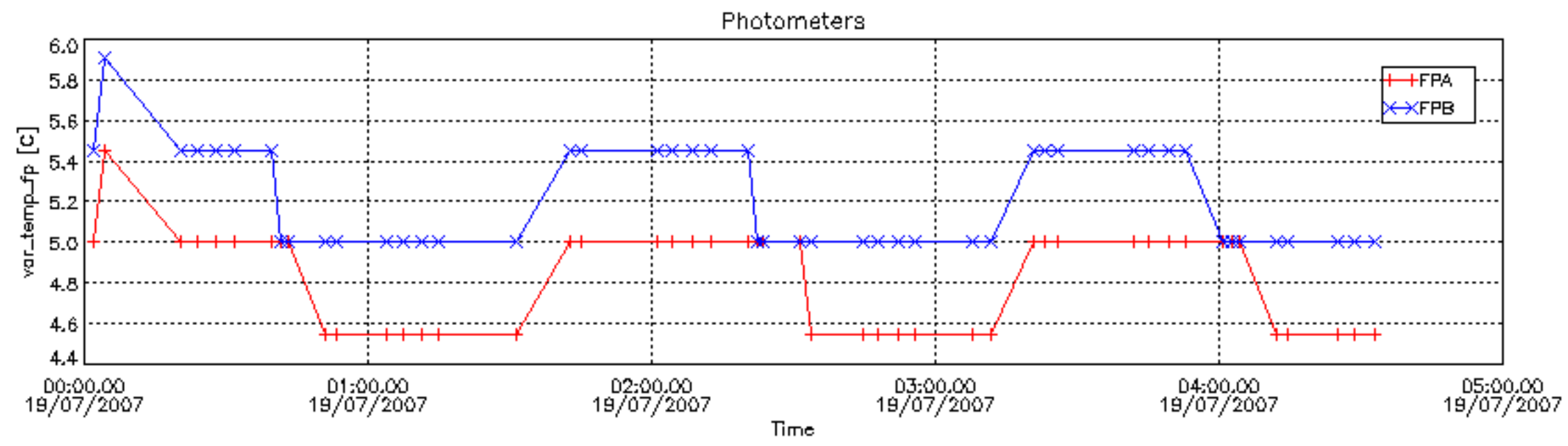
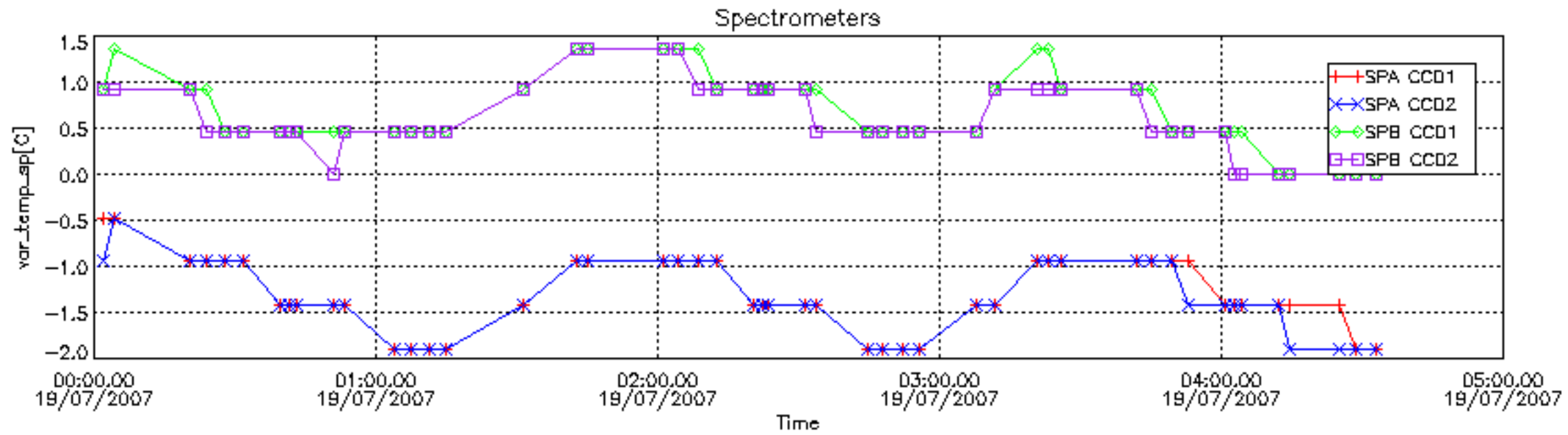


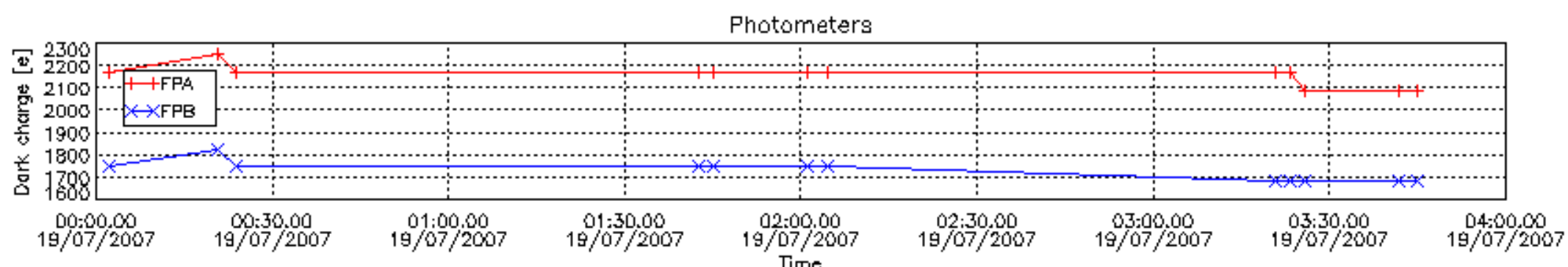
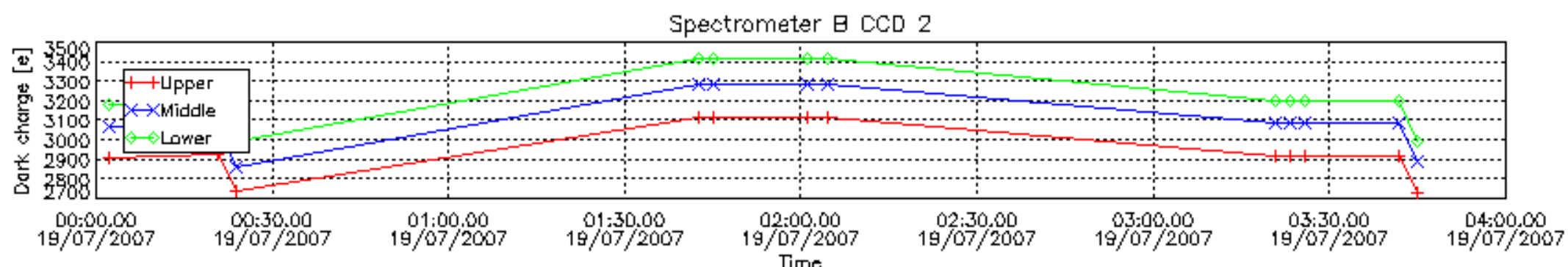
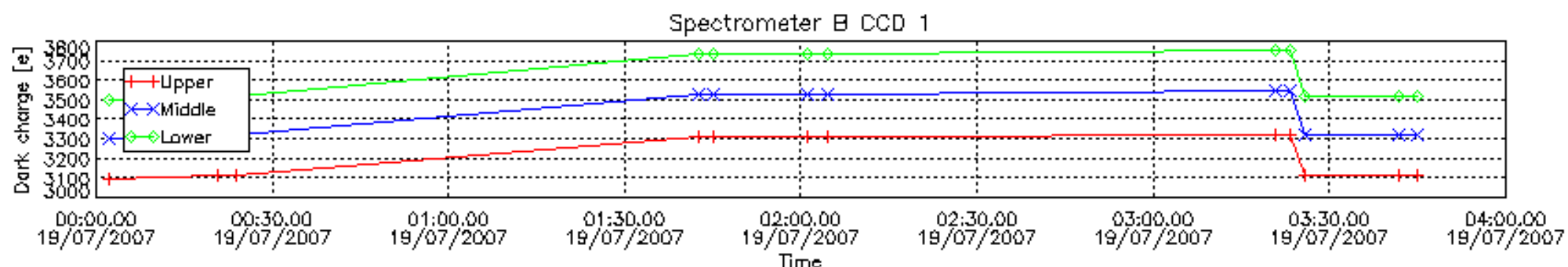
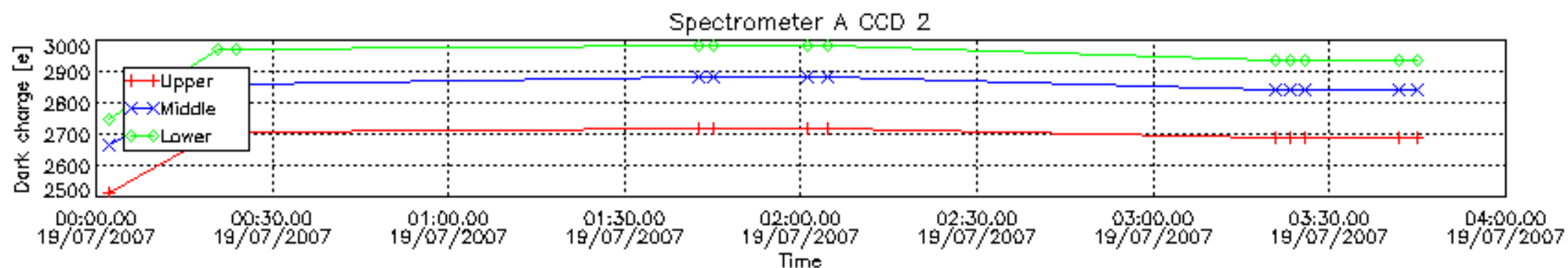
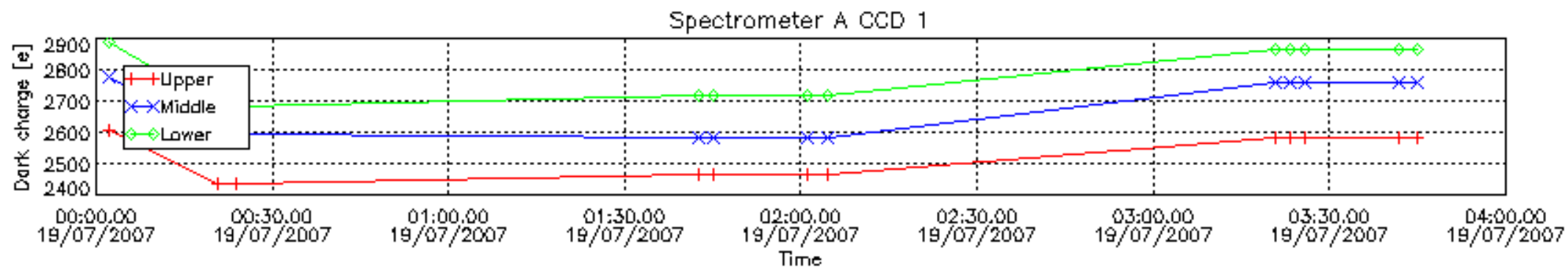
8. Auxiliary Data Files used for the production reported in section 2.4

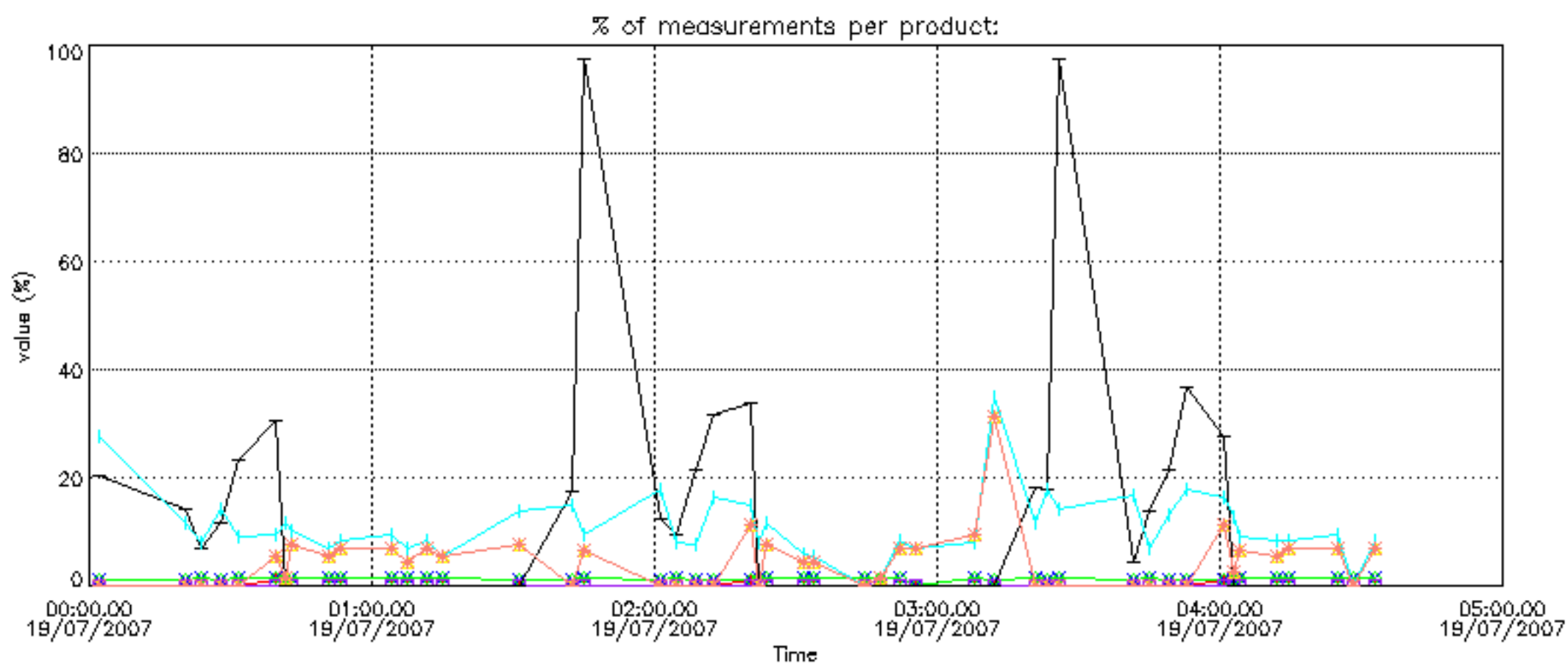
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	19-JUL-2007 00:02:06
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070713_071616_20070710_000000_20100101_000000	1	19-JUL-2007 00:02:06
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	19-JUL-2007 00:02:06
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	19-JUL-2007 00:02:06
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	19-JUL-2007 00:02:06
ECMWF_FILE	AUX_ECF_AXNECM20070718_062112_20070718_210000_20070719_090000	1	19-JUL-2007 00:02:06
ECMWF_FILE	AUX_ECF_AXNECM20070718_182115_20070719_030000_20070719_150000	32	19-JUL-2007 03:08:02
OPTIONAL_ECMWF_FILE	MISSING	1	19-JUL-2007 00:02:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070718_211312_000038252060_00029_28139_3802.N1	1	19-JUL-2007 00:02:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070718_222216_000057382060_00029_28139_3803.N1	2	19-JUL-2007 00:04:30
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070719_000313_000054192060_00030_28140_3804.N1	17	19-JUL-2007 01:42:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070719_013851_000041442060_00031_28141_3805.N1	32	19-JUL-2007 03:08:02

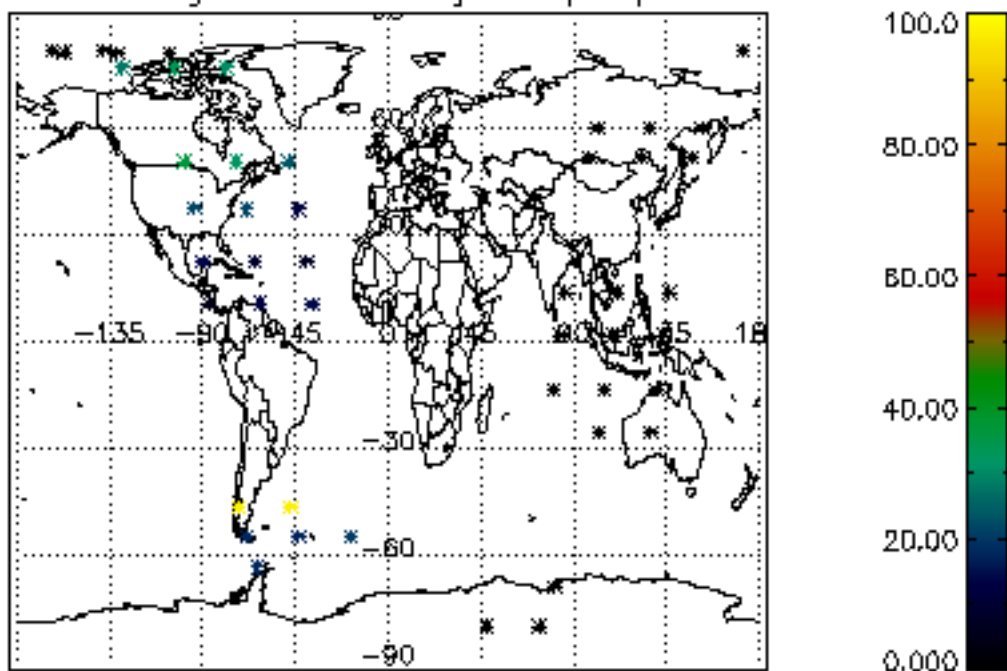




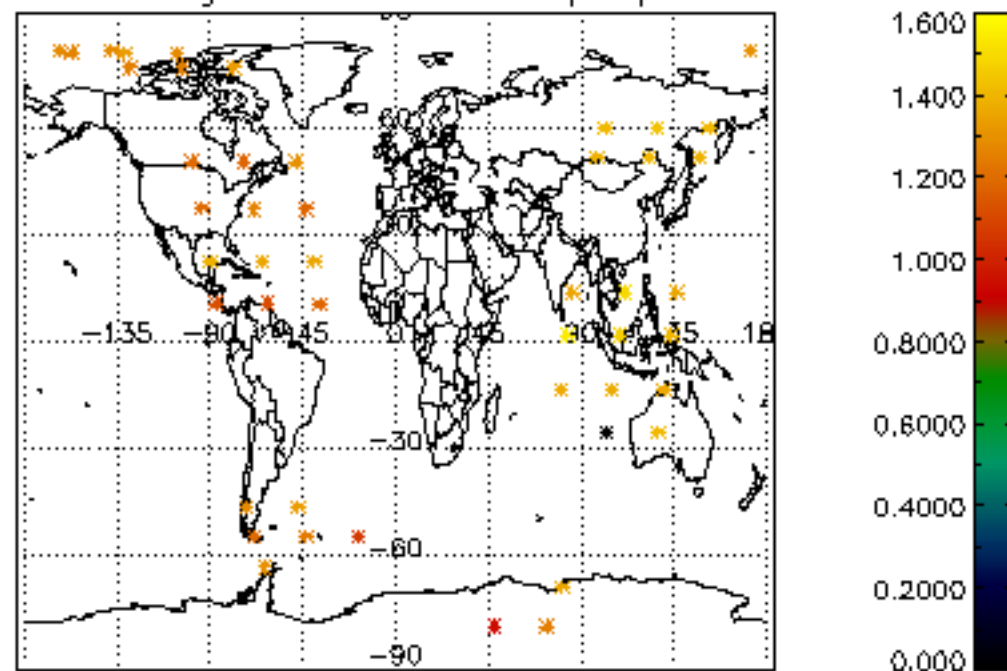




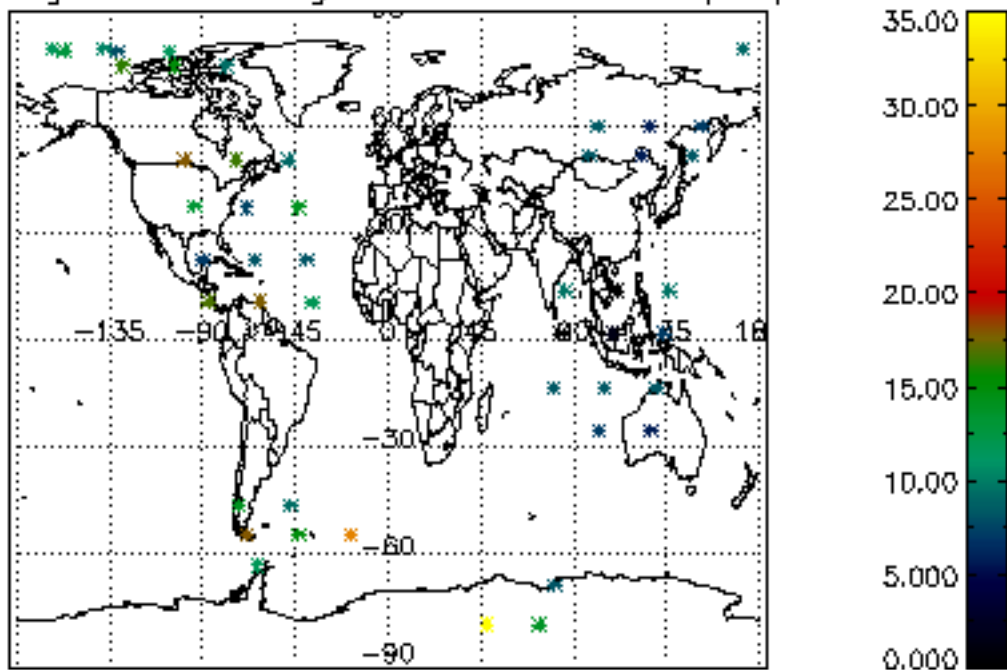
Percentage of cosmic ray hits per profile



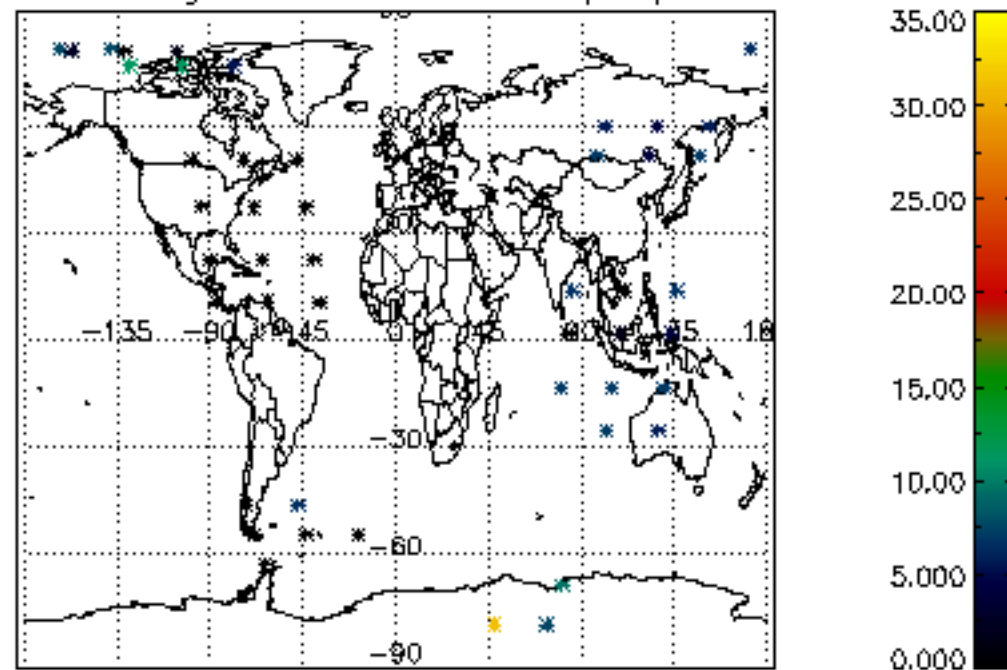
Percentage of datation errors per profile



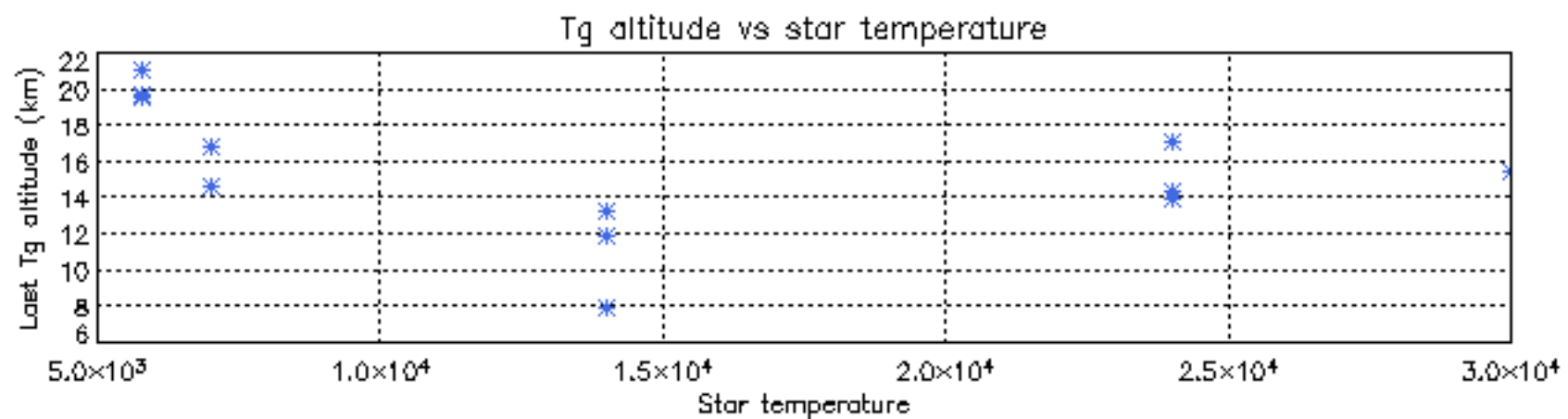
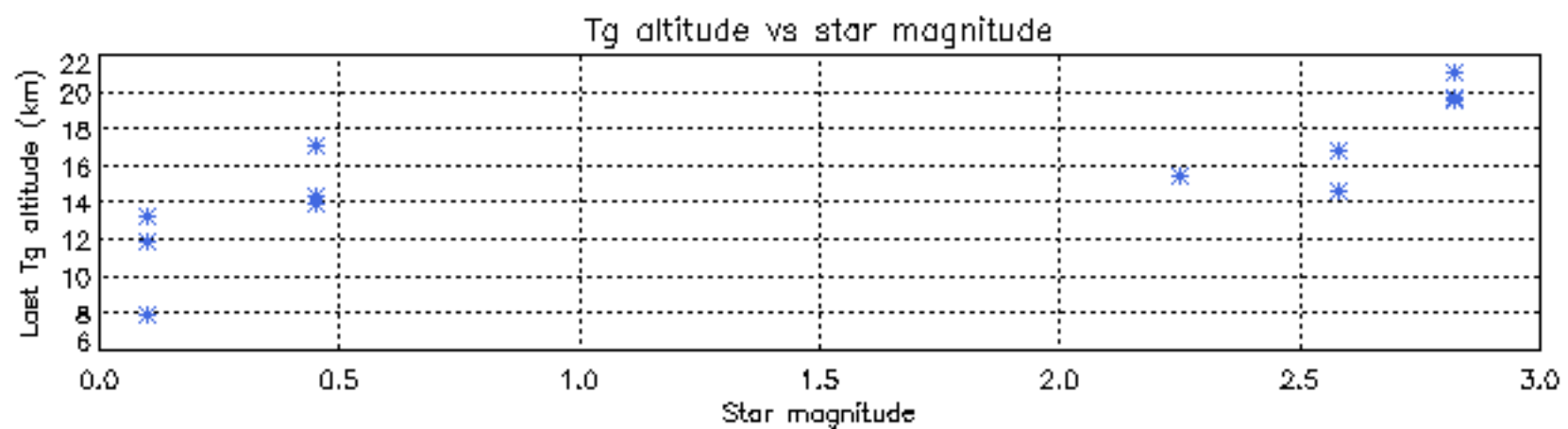
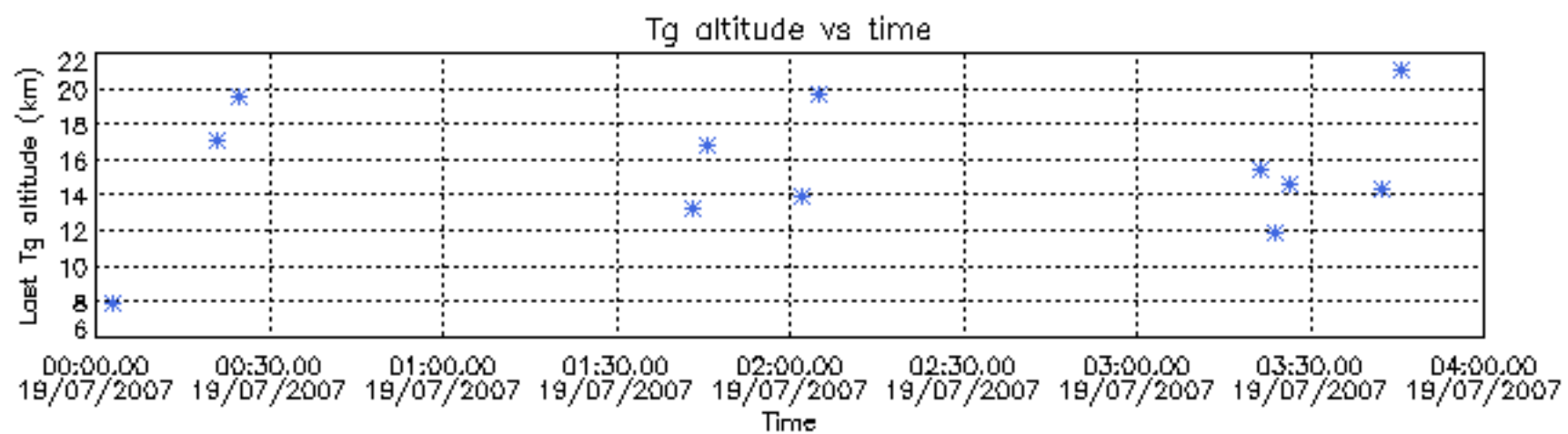
Percentage of star falling outside central band per profile



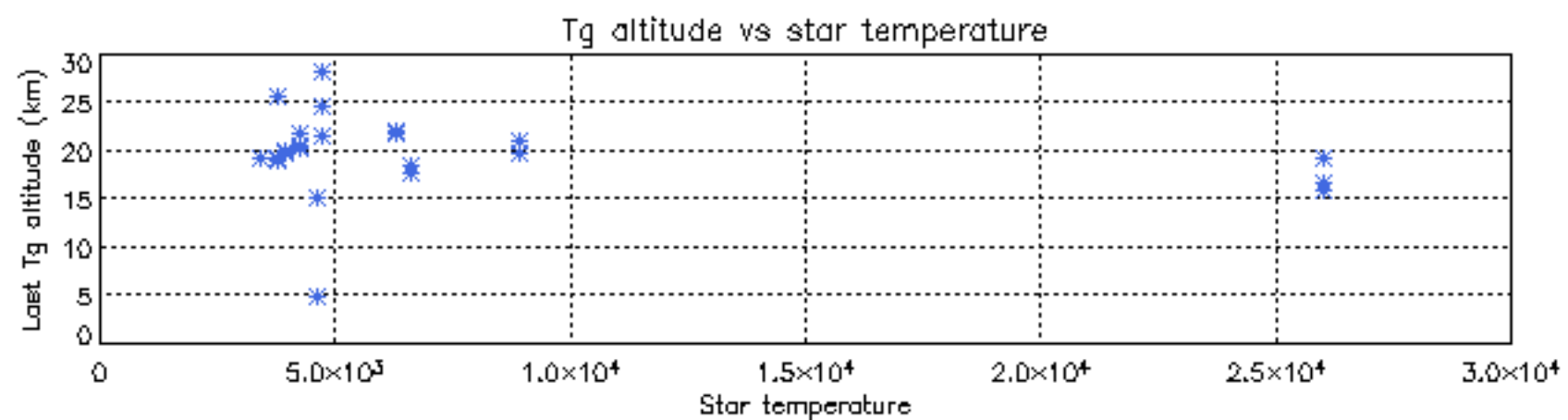
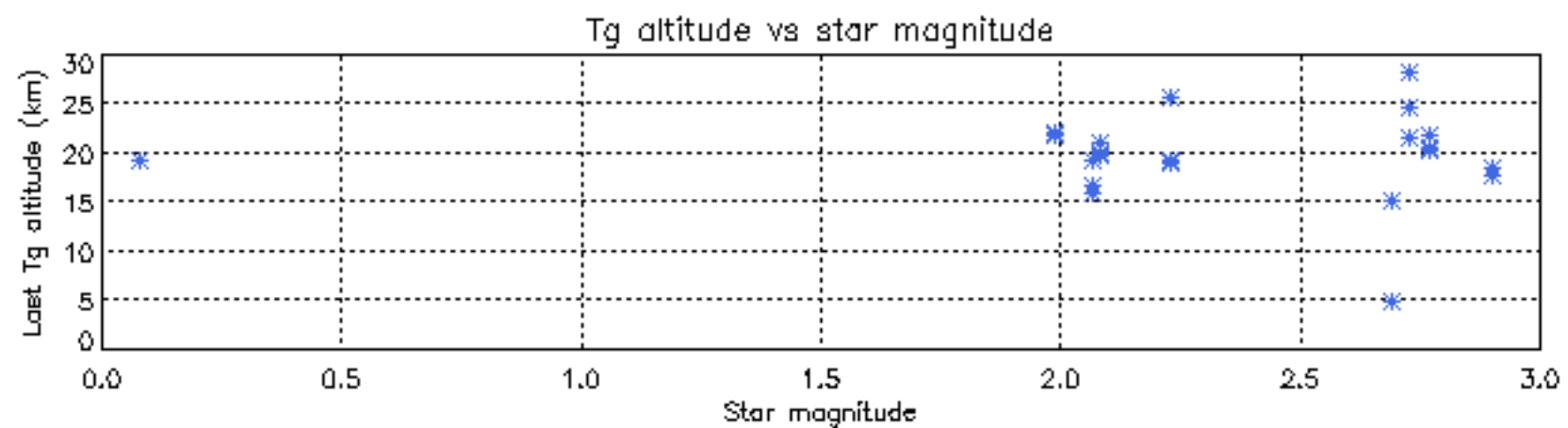
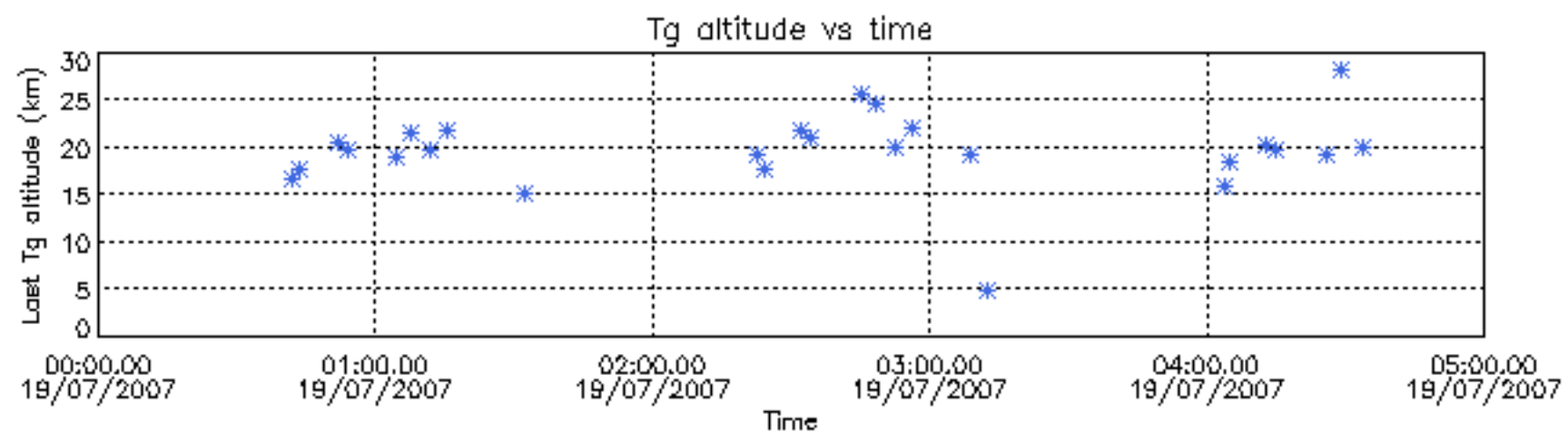
Percentage of saturation errors per profile

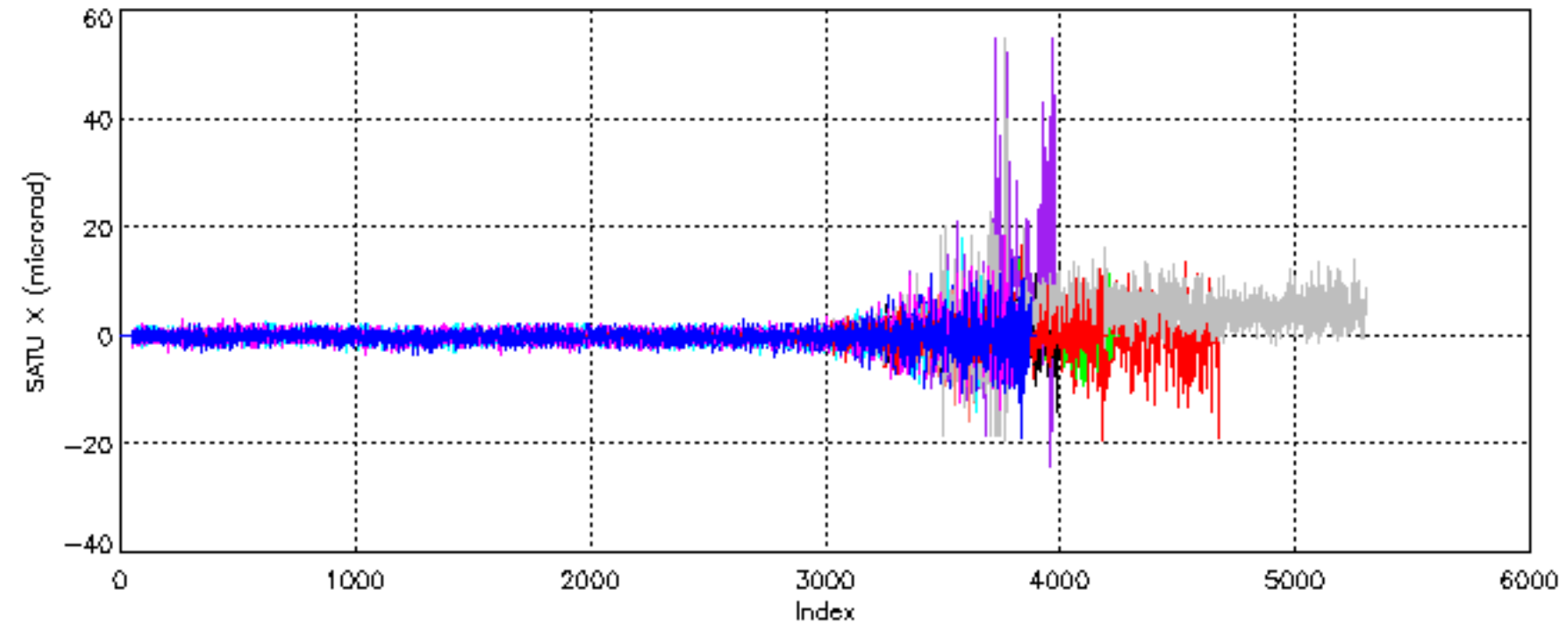


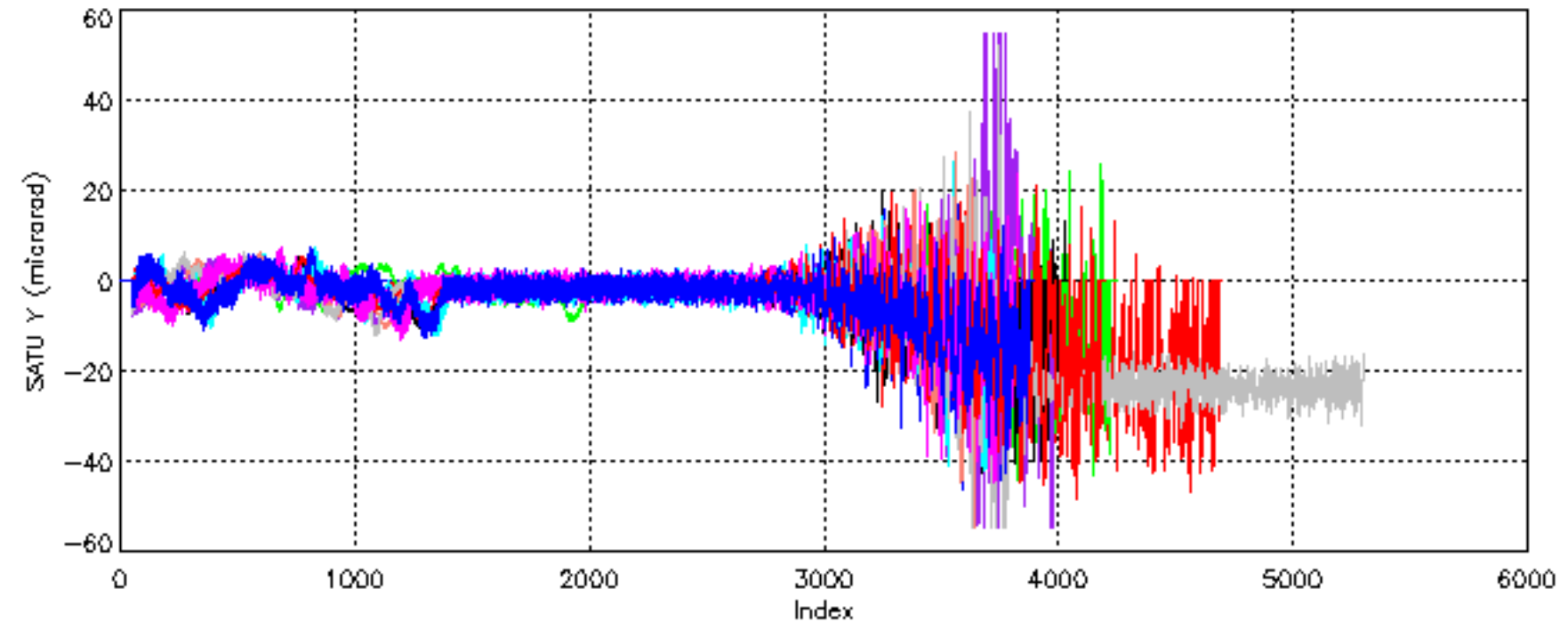
Tangent altitude at which the star is lost

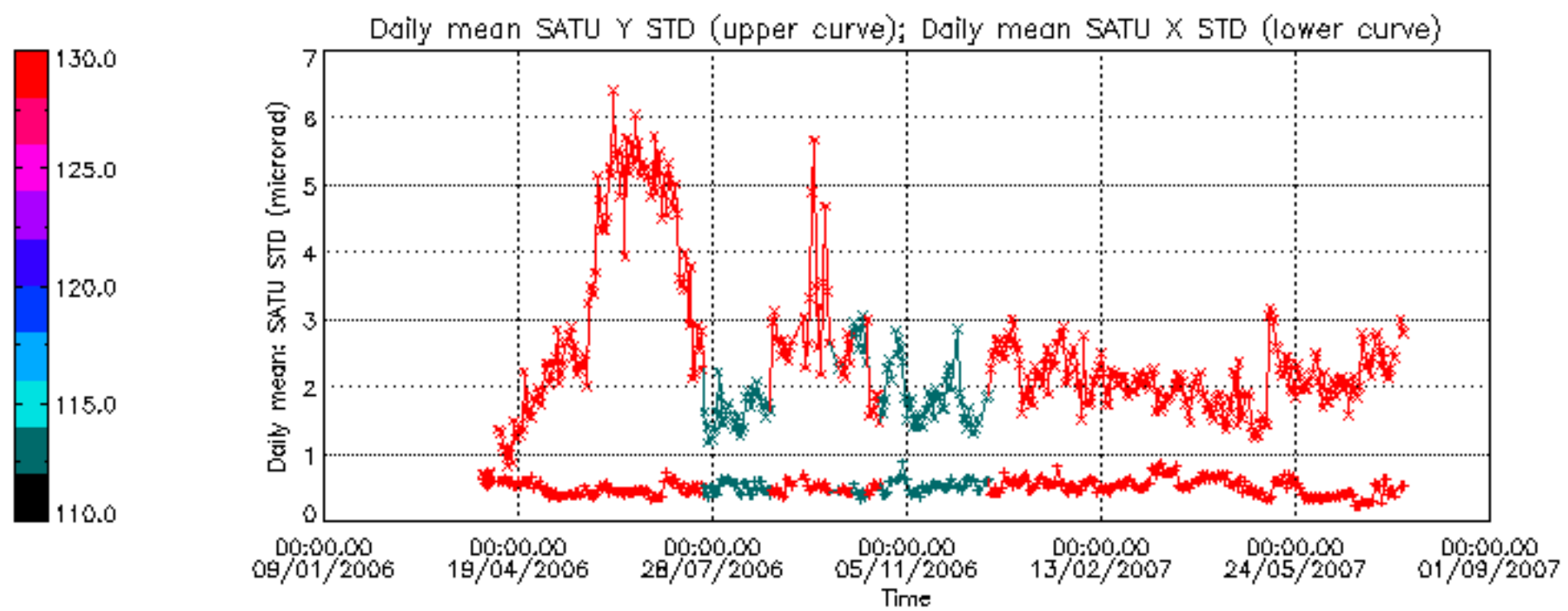


Tangent altitude at which the star is lost









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 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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