

GOMOS Daily Report 22-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	24JUL2007 05:34:13
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (22JUL2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (23JUL2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

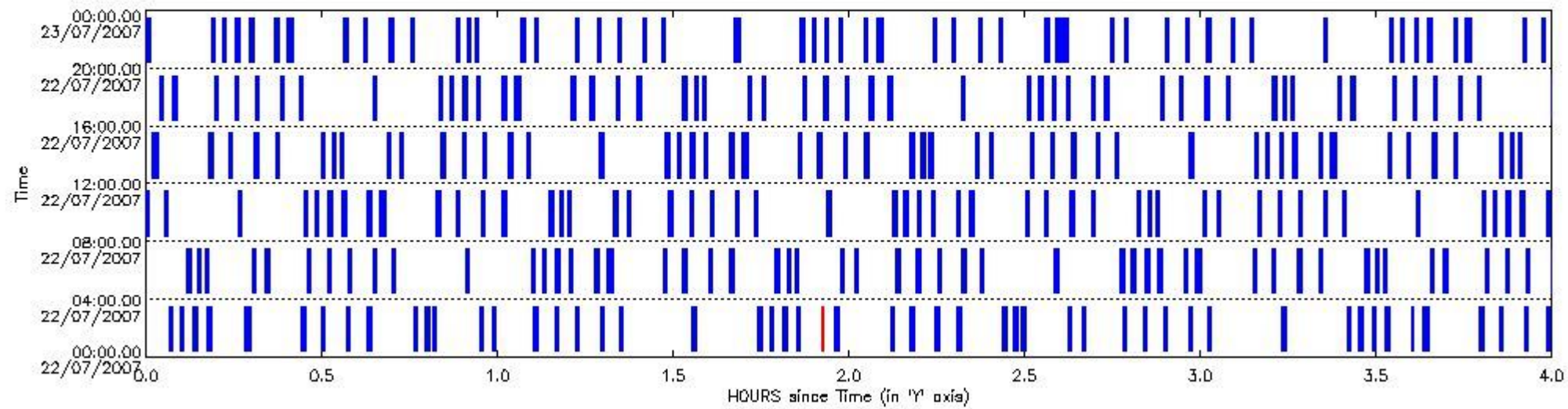
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

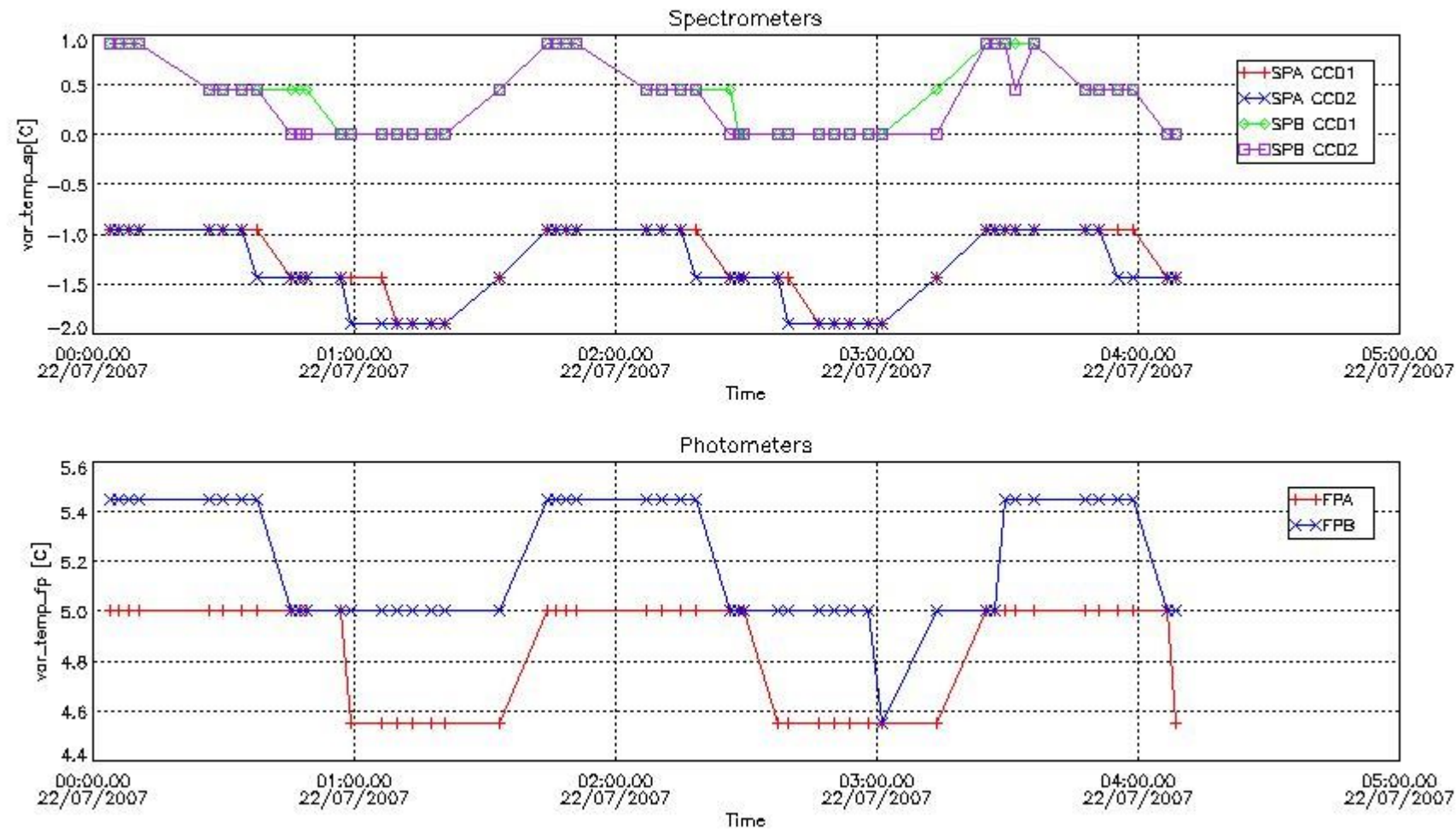
UTC start time	Star name	Star ID	Orbit
22-JUL-2007 01:55:14	AlpCol	108	28184

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_1PNPDE20070722_000351_000000372060_00073_28183_4672.N1	22-JUL-2007 00:03:51	Dark	36.500	27	24Gam Ori	1.6360	26000.	73	28183	No
2	GOM_TRA_1PNPDE20070722_000547_000000372060_00073_28183_4673.N1	22-JUL-2007 00:05:47	Dark	36.500	30	46Eps Ori	1.6940	30000.	73	28183	No
3	GOM_TRA_1PNPDE20070722_000802_000000392060_00073_28183_4674.N1	22-JUL-2007 00:08:02	Dark	39.000	7	19Bet Ori	0.10000	14000.	78	28183	No
4	GOM_TRA_1PNPDE20070722_001023_000000382060_00073_28183_4675.N1	22-JUL-2007 00:10:23	Dark	38.000	101	11Alp Lep	2.5820	7000.0	76	28183	No
5	GOM_TRA_1PNPDE20070722_002628_000000372060_00074_28184_4793.N1	22-JUL-2007 00:26:28	Dark	37.000	143	Alp Hyi	2.8570	7200.0	74	28184	No
6	GOM_TRA_1PNPDE20070722_002947_000000372060_00074_28184_4794.N1	22-JUL-2007 00:29:47	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	28184	No
7	GOM_TRA_1PNPDE20070722_003408_000000422060_00074_28184_4795.N1	22-JUL-2007 00:34:08	Straylight	42.000	148	Alp Tuc	2.8780	4100.0	84	28184	No
8	GOM_TRA_1PNPDE20070722_003747_000000392060_00074_28184_4796.N1	22-JUL-2007 00:37:47	Straylight	38.500	45	Alp Pav	1.9400	26000.	77	28184	No
9	GOM_TRA_1PNPDE20070722_004537_000000402060_00074_28184_4797.N1	22-JUL-2007 00:45:37	Bright	39.500	38	20Eps Sgr	1.8360	11000.	79	28184	No
10	GOM_TRA_1PNPDE20070722_004731_000000452060_00074_28184_4798.N1	22-JUL-2007 00:47:31	Bright	45.000	57	34Sig Sgr	2.0660	26000.	90	28184	No

11	GOM_TRA_1PNPDE20070722_004852_000000382060_00074_28184_4799.N1	22-JUL-2007 00:48:52	Bright	38.000	155	41Pi Sgr	2.9000	6600.0	76	28184	No
12	GOM_TRA_1PNPDE20070722_005649_000000372060_00074_28184_4800.N1	22-JUL-2007 00:56:49	Bright	36.500	126	60Bet Oph	2.7700	4250.0	73	28184	No
13	GOM_TRA_1PNPDE20070722_005907_000000372060_00074_28184_4801.N1	22-JUL-2007 00:59:07	Bright	36.500	59	55Alp Oph	2.0800	8900.0	73	28184	No
14	GOM_TRA_1PNPDE20070722_010611_000000382060_00074_28184_4802.N1	22-JUL-2007 01:06:11	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	28184	No
15	GOM_TRA_1PNPDE20070722_010942_000000372060_00074_28184_4803.N1	22-JUL-2007 01:09:42	Bright	36.500	69	33Gam Dra	2.2310	3800.0	73	28184	No
16	GOM_TRA_1PNPDE20070722_011313_000000372060_00074_28184_4804.N1	22-JUL-2007 01:13:13	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	28184	No
17	GOM_TRA_1PNPDE20070722_011728_000000372060_00074_28184_4805.N1	22-JUL-2007 01:17:28	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	28184	No
18	GOM_TRA_1PNPDE20070722_012042_000000332060_00074_28184_4806.N1	22-JUL-2007 01:20:42	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	28184	No
19	GOM_TRA_1PNPDE20070722_013314_000000382060_00074_28184_4807.N1	22-JUL-2007 01:33:14	Bright	37.500	6	13Alp Aur	0.080000	3400.0	75	28184	No
20	GOM_TRA_1PNPDE20070722_014427_000000362060_00074_28184_4808.N1	22-JUL-2007 01:44:27	Dark	36.000	27	24Gam Ori	1.6360	26000.	72	28184	No
21	GOM_TRA_1PNPDE20070722_014623_000000392060_00074_28184_4809.N1	22-JUL-2007 01:46:23	Dark	38.500	30	46Eps Ori	1.6940	30000.	77	28184	No
22	GOM_TRA_1PNPDE20070722_014838_000000442060_00074_28184_4973.N1	22-JUL-2007 01:48:38	Dark	44.000	7	19Bet Ori	0.10000	14000.	88	28184	No
23	GOM_TRA_1PNPDE20070722_015059_000000392060_00074_28184_4974.N1	22-JUL-2007 01:50:59	Dark	39.000	101	11Alp Lep	2.5820	7000.0	78	28184	No
24	GOM_TRA_1PNPDE20070722_020705_000000392060_00075_28185_4975.N1	22-JUL-2007 02:07:05	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	28185	No
25	GOM_TRA_1PNPDE20070722_021024_000000392060_00075_28185_4976.N1	22-JUL-2007 02:10:24	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	28185	No
26	GOM_TRA_1PNPDE20070722_021444_000000442060_00075_28185_4977.N1	22-JUL-2007 02:14:44	Straylight	44.000	148	Alp Tuc	2.8780	4100.0	88	28185	No
27	GOM_TRA_1PNPDE20070722_021823_000000412060_00075_28185_4978.N1	22-JUL-2007 02:18:23	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	28185	No
28	GOM_TRA_1PNPDE20070722_022613_000000482060_00075_28185_4979.N1	22-JUL-2007 02:26:13	Bright	47.500	38	20Eps Sgr	1.8360	11000.	95	28185	No
29	GOM_TRA_1PNPDE20070722_022807_000000392060_00075_28185_4980.N1	22-JUL-2007 02:28:07	Bright	38.500	57	34Sig Sgr	2.0660	26000.	77	28185	No
30	GOM_TRA_1PNPDE20070722_022928_000000392060_00075_28185_4981.N1	22-JUL-2007 02:29:28	Bright	38.500	155	41Pi Sgr	2.9000	6600.0	77	28185	No
31	GOM_TRA_1PNPDE20070722_023725_000000372060_00075_28185_4982.N1	22-JUL-2007 02:37:25	Bright	37.000	126	60Bet Oph	2.7700	4250.0	74	28185	No
32	GOM_TRA_1PNPDE20070722_023943_000000372060_00075_28185_4983.N1	22-JUL-2007 02:39:43	Bright	37.000	59	55Alp Oph	2.0800	8900.0	74	28185	No
33	GOM_TRA_1PNPDE20070722_024647_000000402060_00075_28185_4984.N1	22-JUL-2007 02:46:47	Bright	40.000	5	3Alp Lyr	0.033000	11000.	80	28185	No
34	GOM_TRA_1PNPDE20070722_025018_000000352060_00075_28185_4985.N1	22-JUL-2007 02:50:18	Bright	34.500	69	33Gam Dra	2.2310	3800.0	69	28185	No
35	GOM_TRA_1PNPDE20070722_025350_000000362060_00075_28185_4986.N1	22-JUL-2007 02:53:50	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	28185	No
36	GOM_TRA_1PNPDE20070722_025804_000000362060_00075_28185_4987.N1	22-JUL-2007 02:58:04	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	28185	No
37	GOM_TRA_1PNPDE20070722_030118_000000322060_00075_28185_4988.N1	22-JUL-2007 03:01:18	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	28185	No
38	GOM_TRA_1PNPDE20070722_031350_000000532060_00075_28185_5257.N1	22-JUL-2007 03:13:50	Bright	53.000	6	13Alp Aur	0.080000	3400.0	106	28185	No
39	GOM_TRA_1PNPDE20070722_032503_000000382060_00075_28185_5258.N1	22-JUL-2007 03:25:03	Dark	37.500	27	24Gam Ori	1.6360	26000.	75	28185	No
40	GOM_TRA_1PNPDE20070722_032659_000000402060_00075_28185_5259.N1	22-JUL-2007 03:26:59	Dark	39.500	30	46Eps Ori	1.6940	30000.	79	28185	No
41	GOM_TRA_1PNPDE20070722_032915_000000462060_00075_28185_5260.N1	22-JUL-2007 03:29:15	Dark	45.500	7	19Bet Ori	0.10000	14000.	91	28185	No
42	GOM_TRA_1PNPDE20070722_033136_000000402060_00075_28185_5261.N1	22-JUL-2007 03:31:36	Dark	40.000	101	11Alp Lep	2.5820	7000.0	80	28185	No
43	GOM_TRA_1PNPDE20070722_033558_000000252060_00075_28185_5262.N1	22-JUL-2007 03:35:58	Dark	25.000	108	Alp Col	2.6520	15200.	50	28185	No
44	GOM_TRA_1PNPDE20070722_034741_000000382060_00076_28186_5263.N1	22-JUL-2007 03:47:41	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	28186	No
45	GOM_TRA_1PNPDE20070722_035100_000000372060_00076_28186_5264.N1	22-JUL-2007 03:51:00	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	28186	No
46	GOM_TRA_1PNPDE20070722_035521_000000412060_00076_28186_5265.N1	22-JUL-2007 03:55:21	Straylight	41.000	148	Alp Tuc	2.8780	4100.0	82	28186	No
47	GOM_TRA_1PNPDE20070722_035859_000000392060_00076_28186_5266.N1	22-JUL-2007 03:58:59	Straylight	38.500	45	Alp Pav	1.9400	26000.	77	28186	No
48	GOM_TRA_1PNPDE20070722_040649_000000462060_00076_28186_5267.N1	22-JUL-2007 04:06:49	Bright	45.500	38	20Eps Sgr	1.8360	11000.	91	28186	No
49	GOM_TRA_1PNPDE20070722_040843_000000392060_00076_28186_5268.N1	22-JUL-2007 04:08:43	Bright	38.500	57	34Sig Sgr	2.0660	26000.	77	28186	No

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



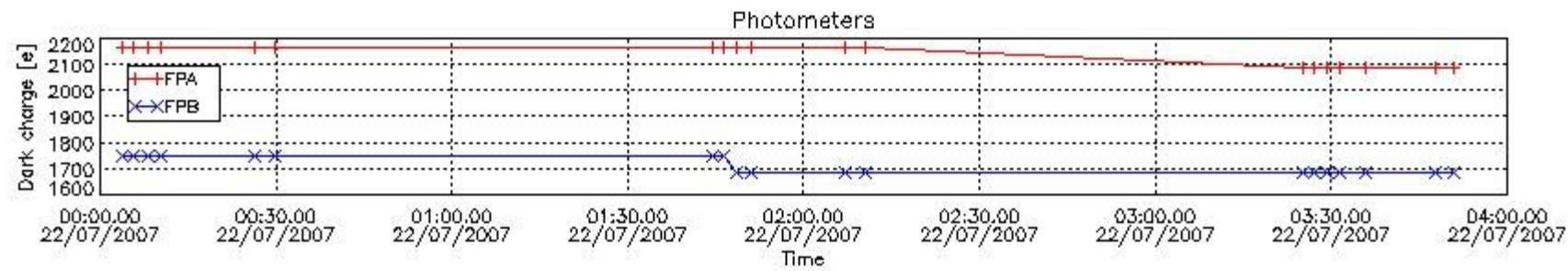
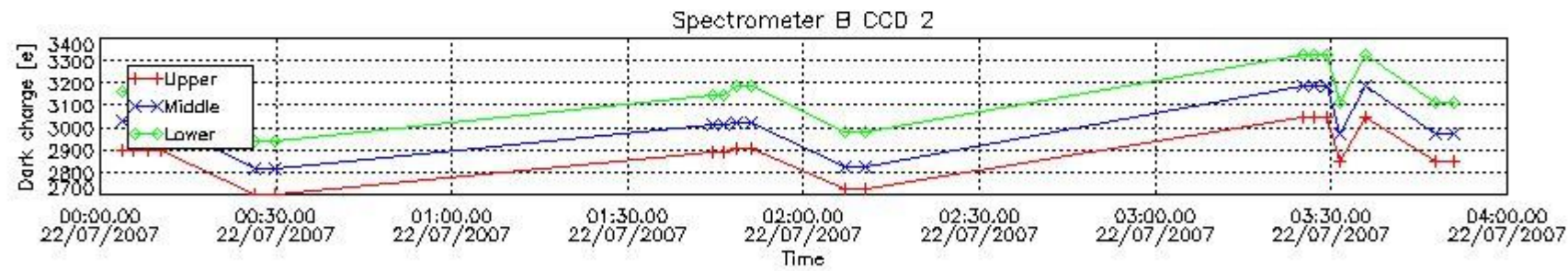
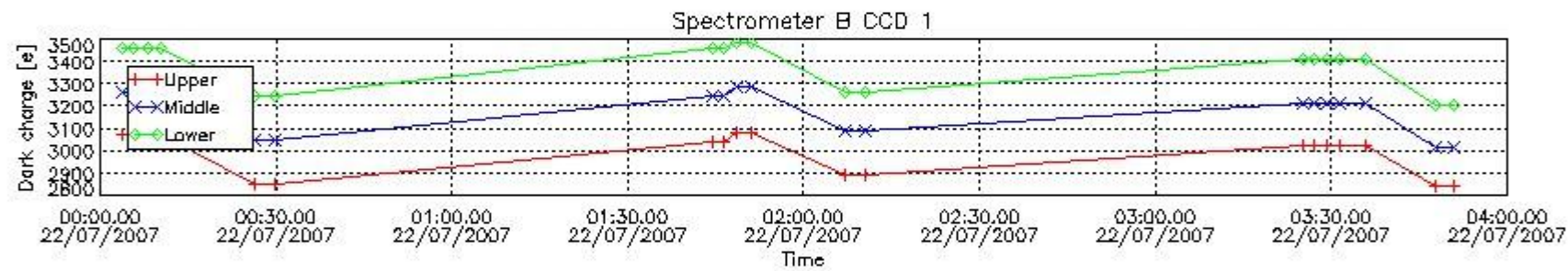
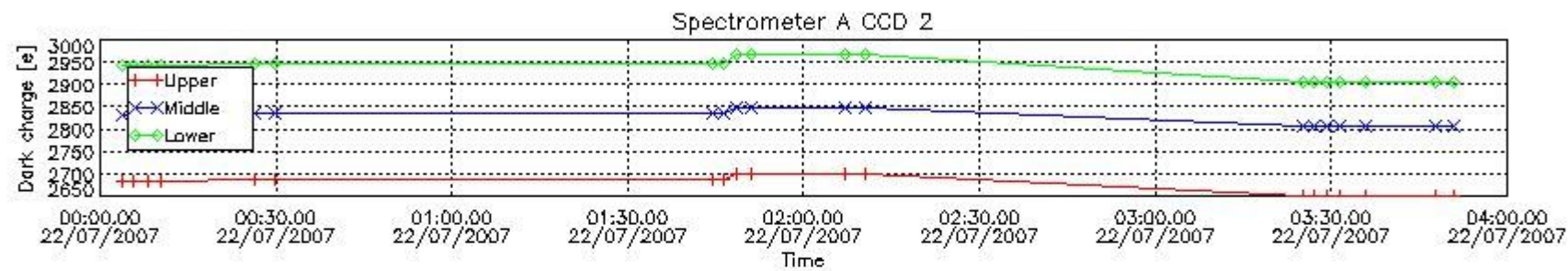
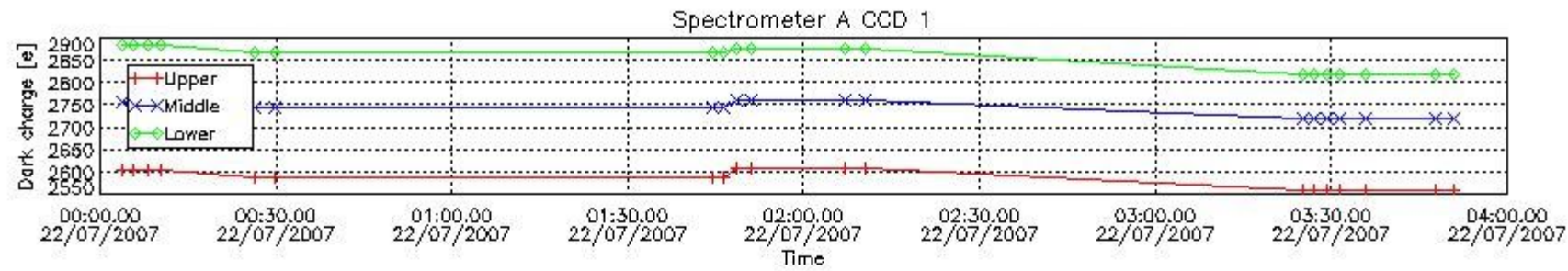
4. Overview of dark signal processing per product

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



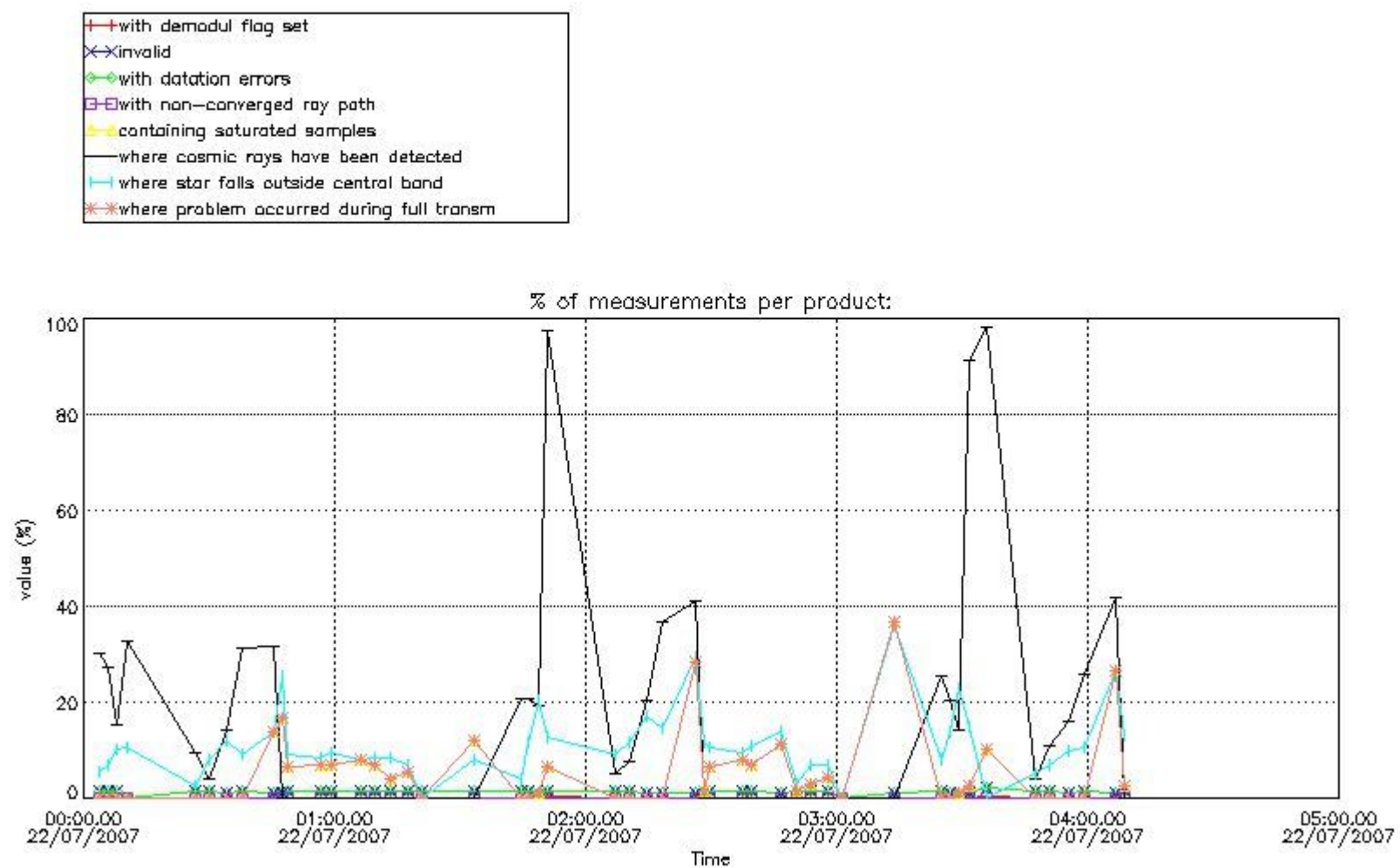
5. Demodulation flag and quality information monitoring

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.

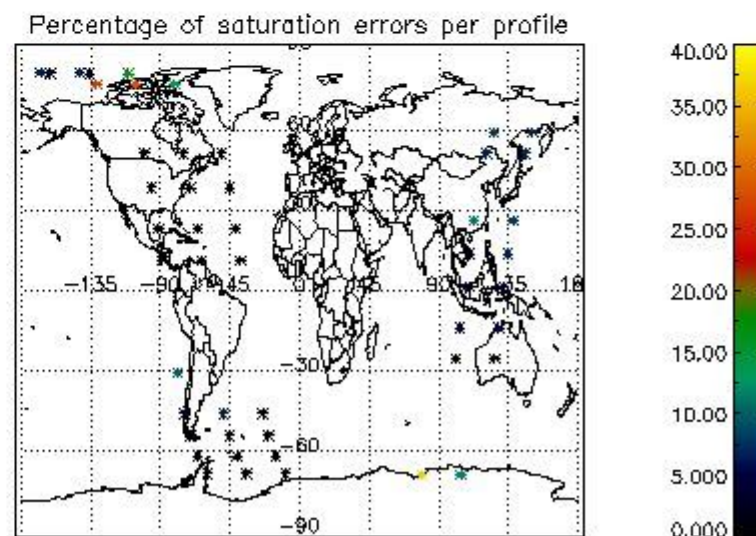
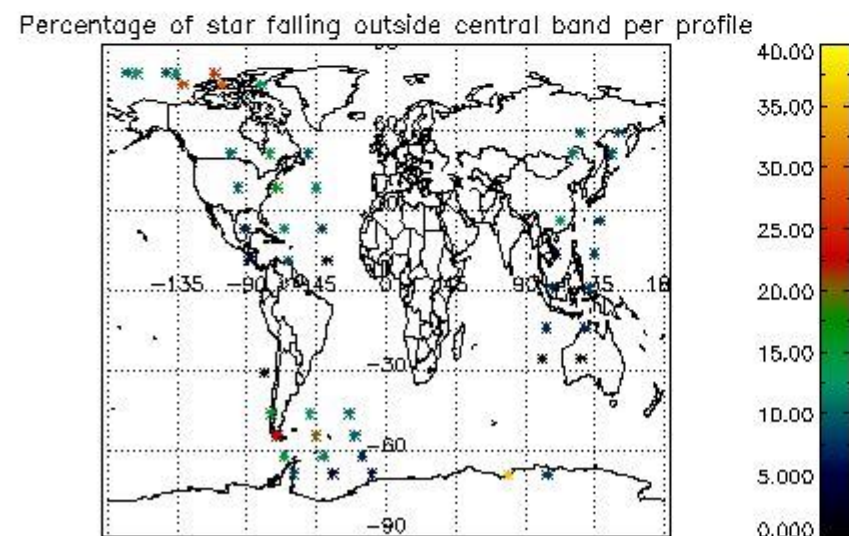
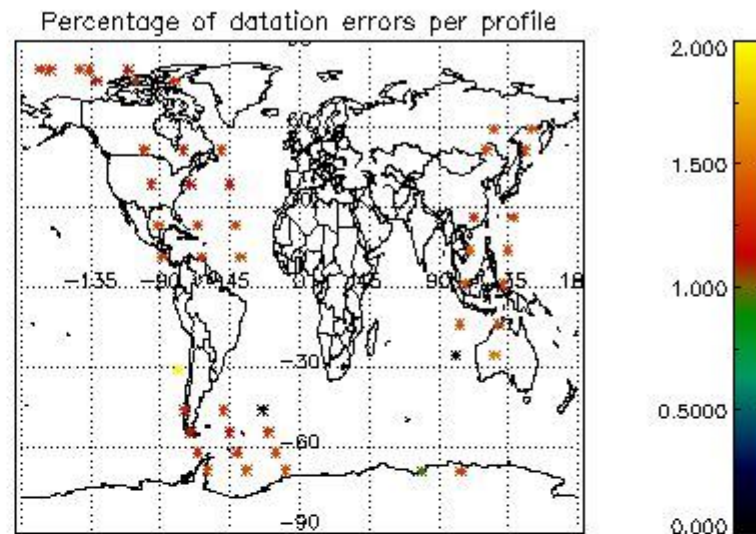
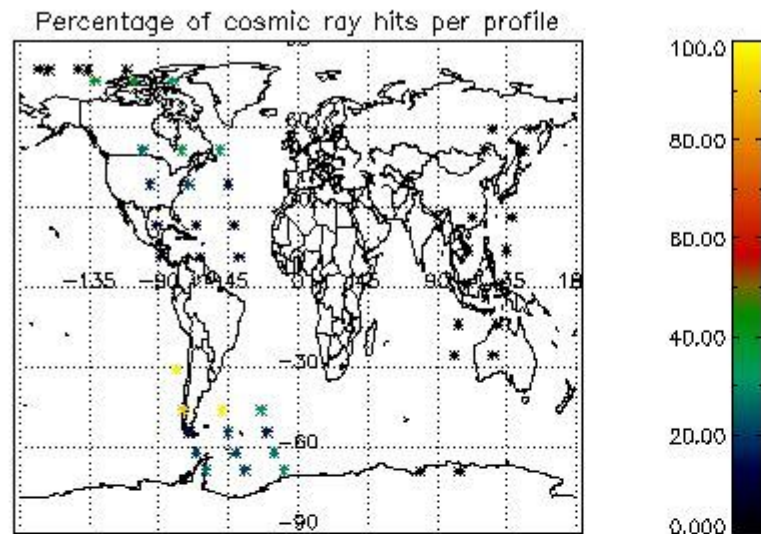
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.3265 %
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)



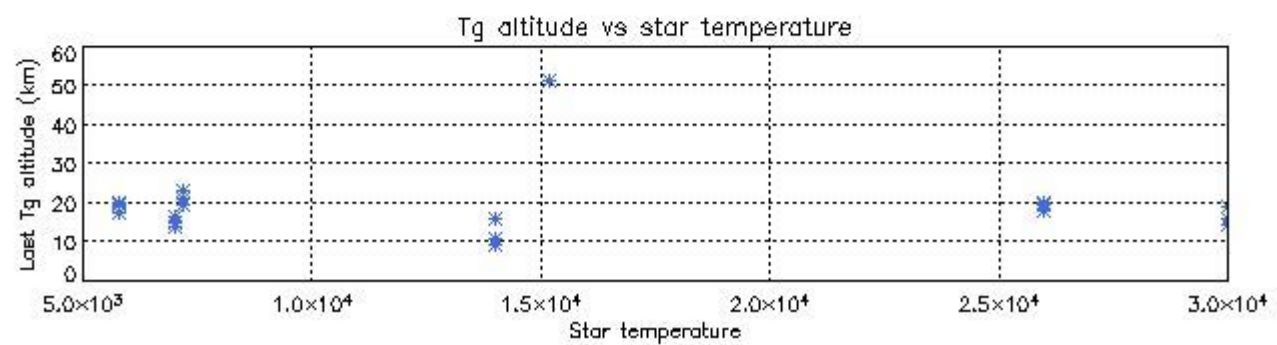
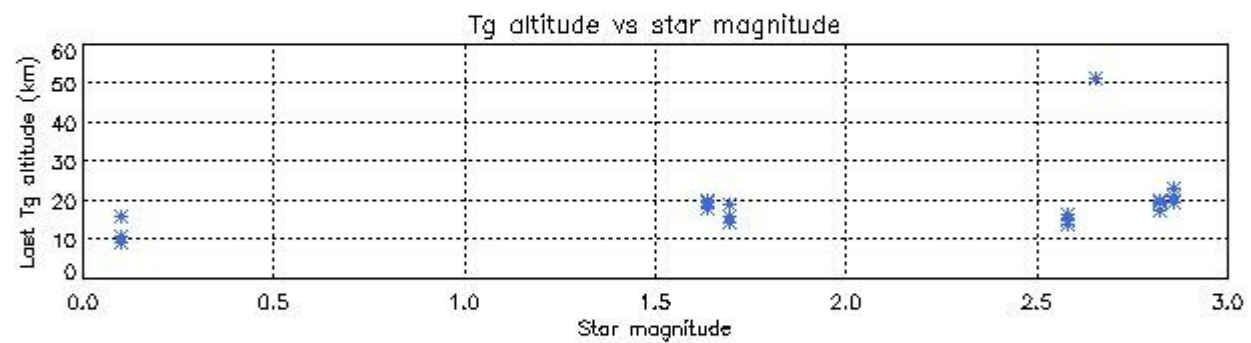
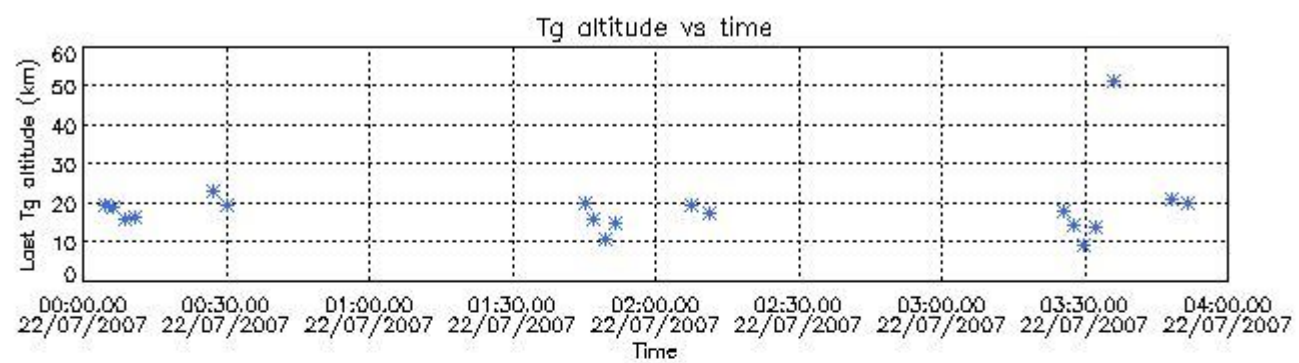
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	18.964	17.813	NaN
St. deviation:	8.5135	5.8836	NaN
Maximum:	51.146	30.439	NaN
Minimum:	9.4562	4.3964	NaN
Number of data:	19.000	24.000	NaN

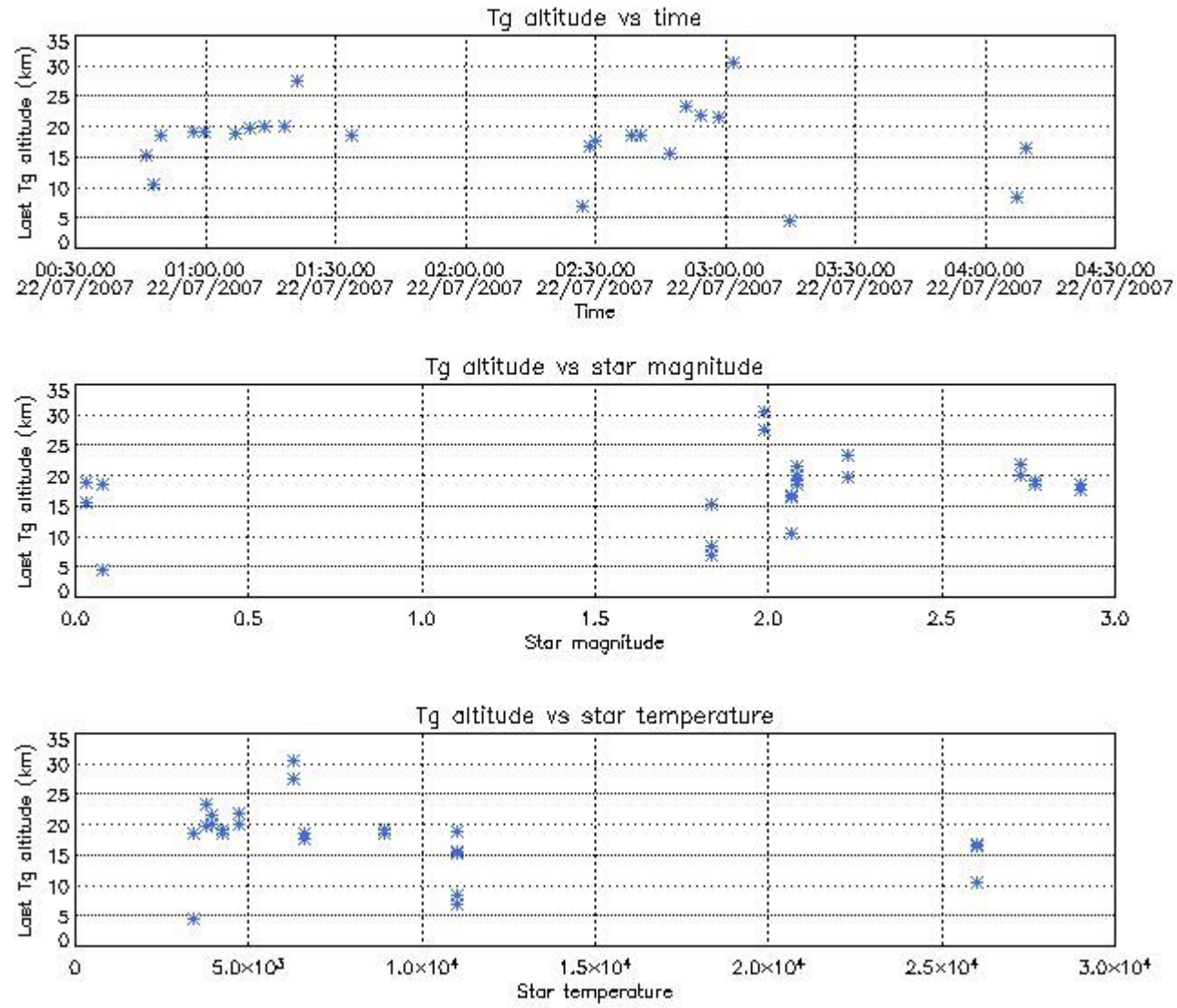
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

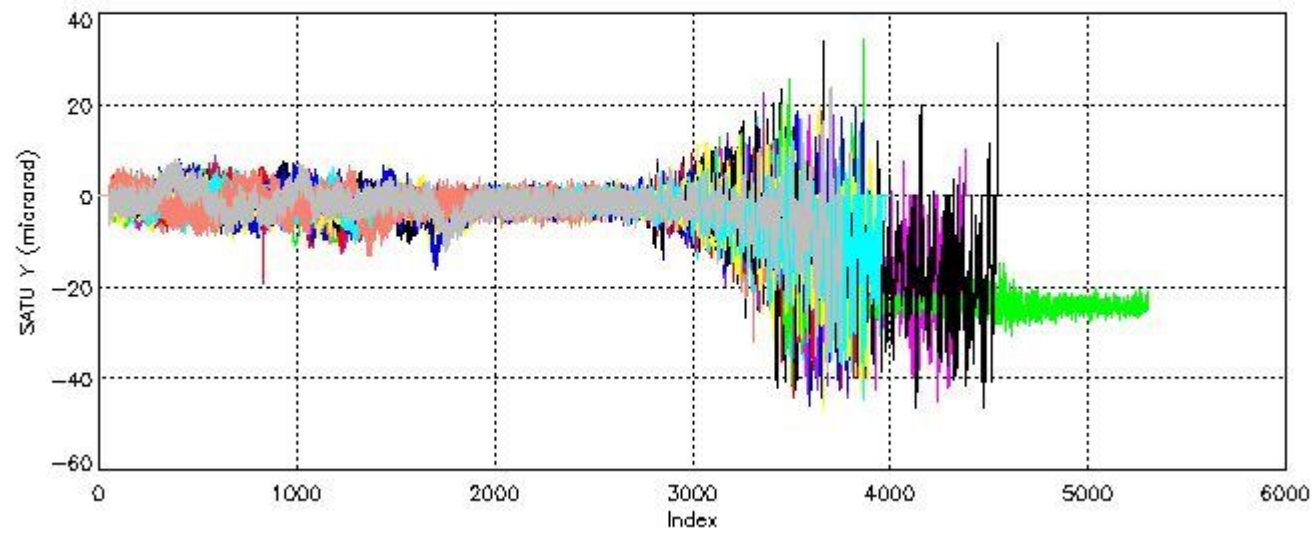
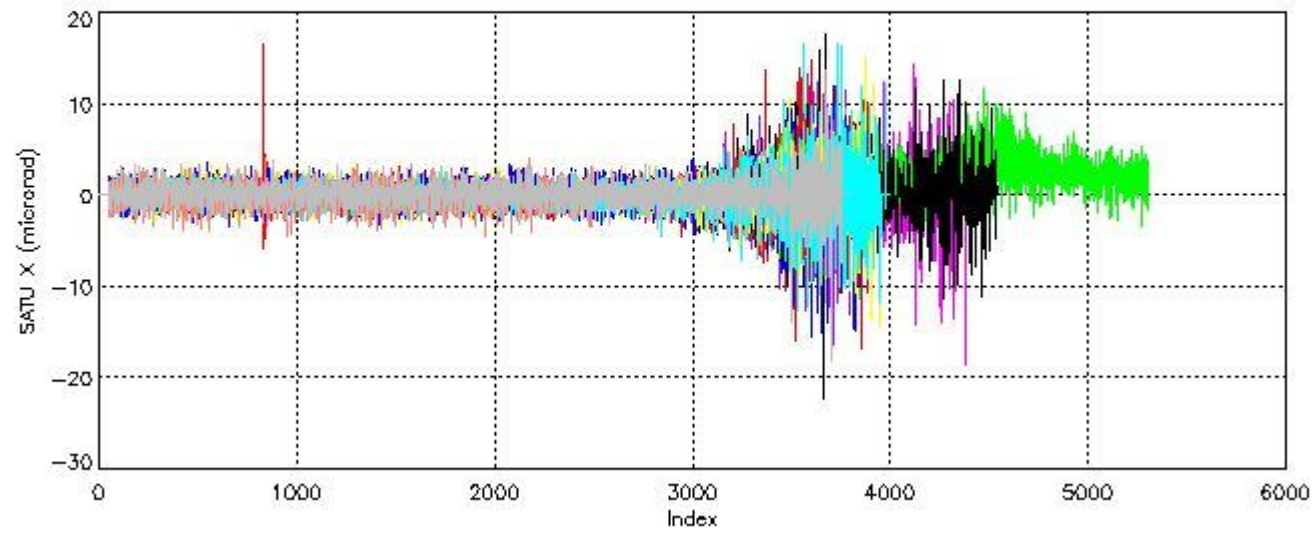


7. Star Acquisition and Tracking Unit (SATU)

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:	-0.019398	-1.0624	0.014099	-0.93274
St. deviation:	0.71600	2.7186	0.58384	2.5603
Maximum:	16.400	8.8000	3.7000	8.3000
Minimum:	-5.8000	-19.200	-3.6000	-10.500

Number of data:	16600.	16600.	20150.	20150.
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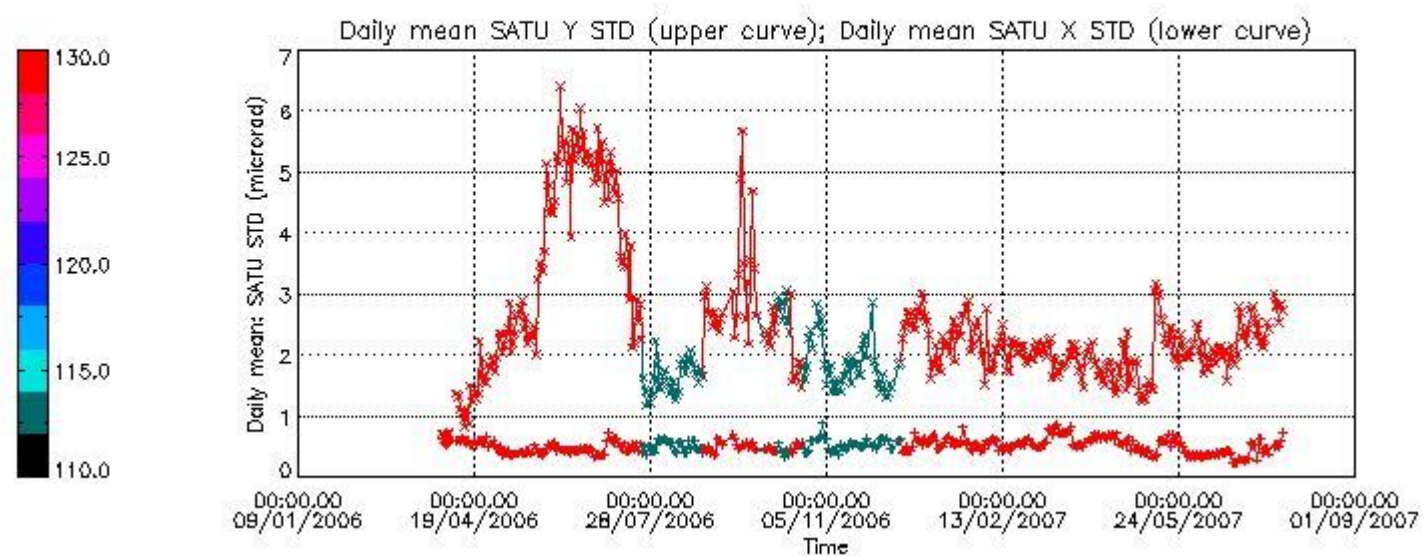
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

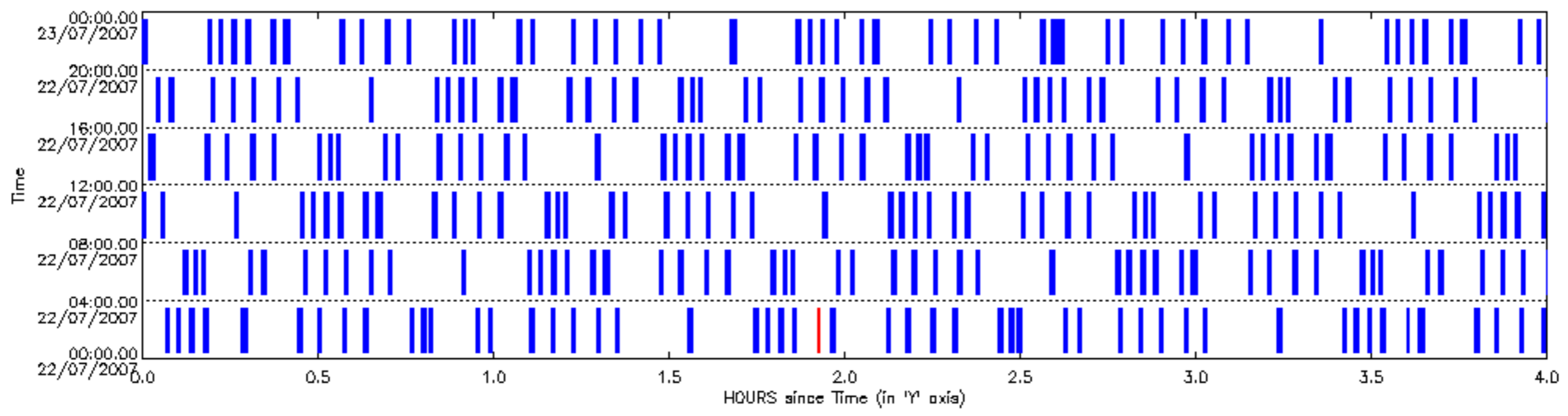
Lower curve: STD of SATU X axis

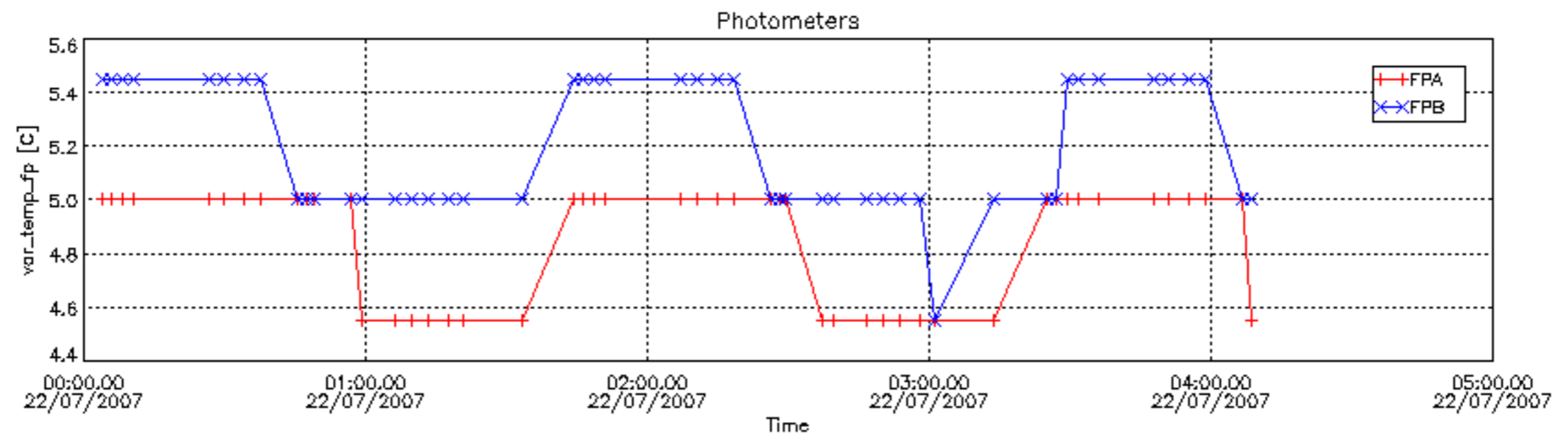
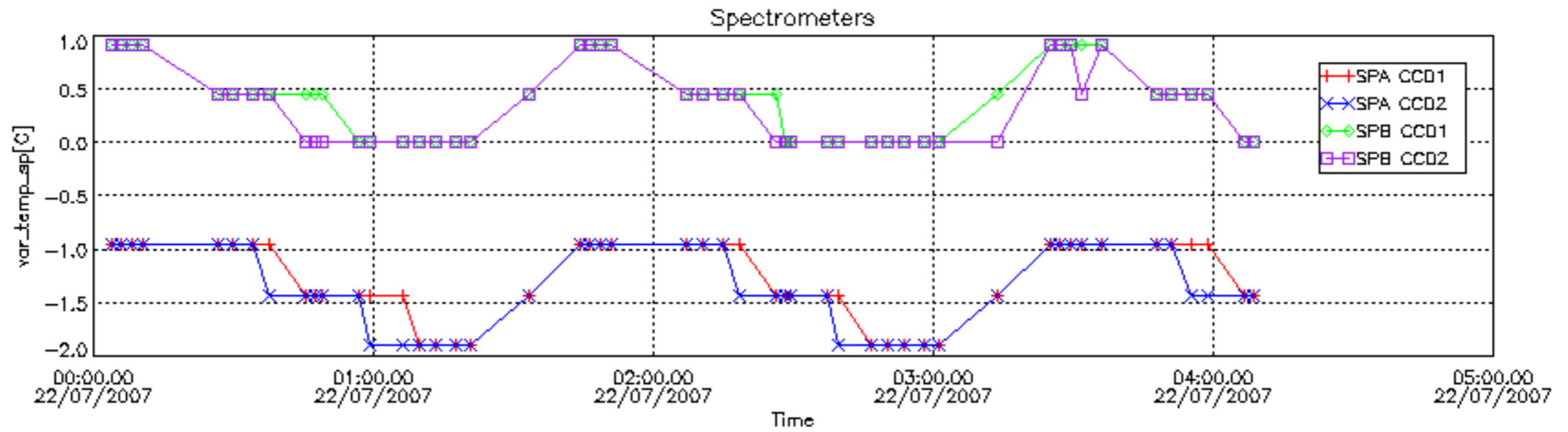


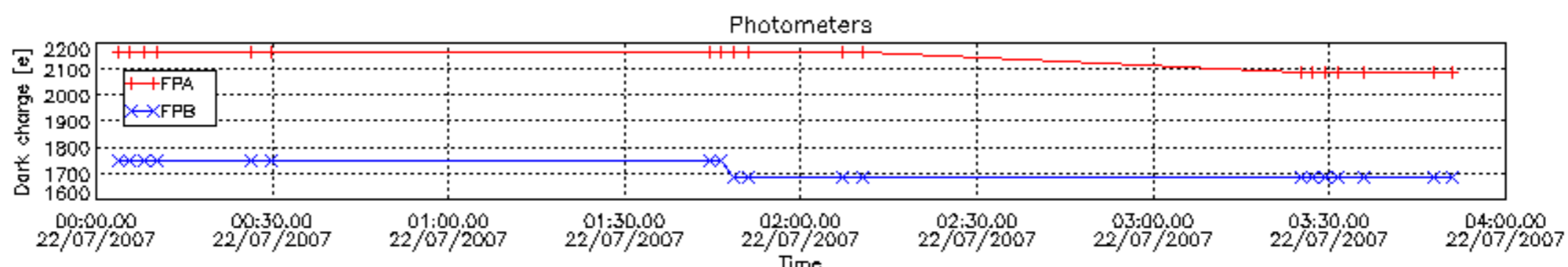
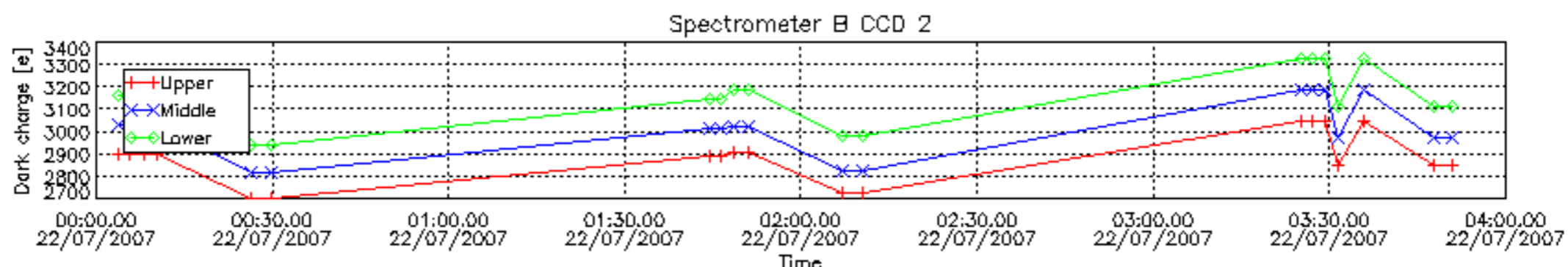
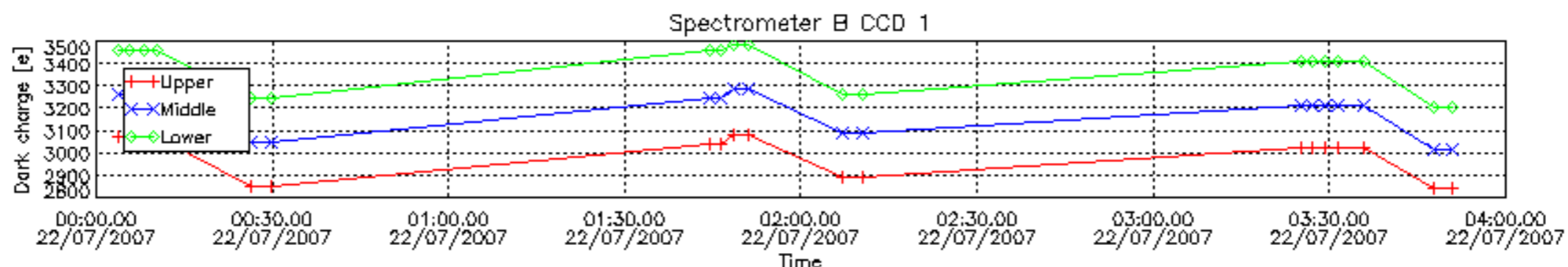
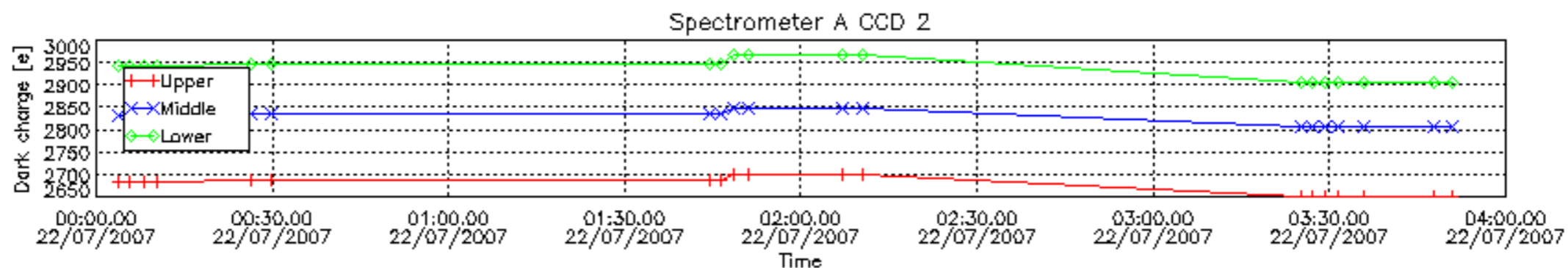
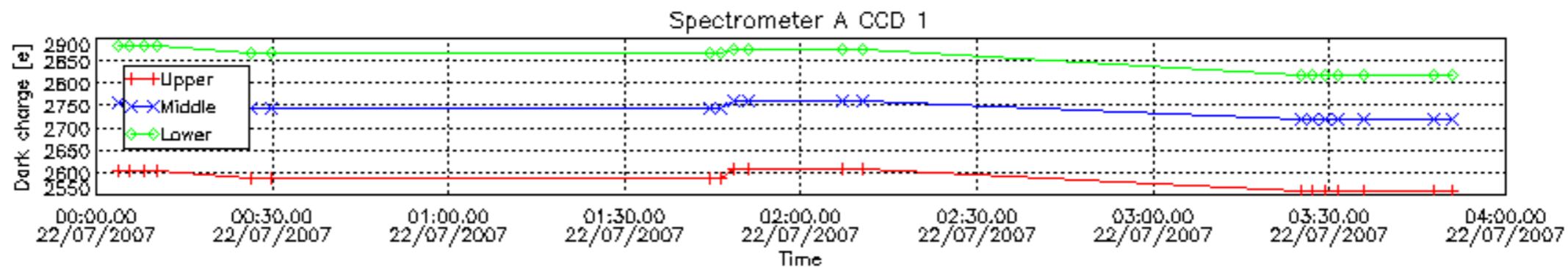
8. Auxiliary Data Files used for the production reported in section 2.4

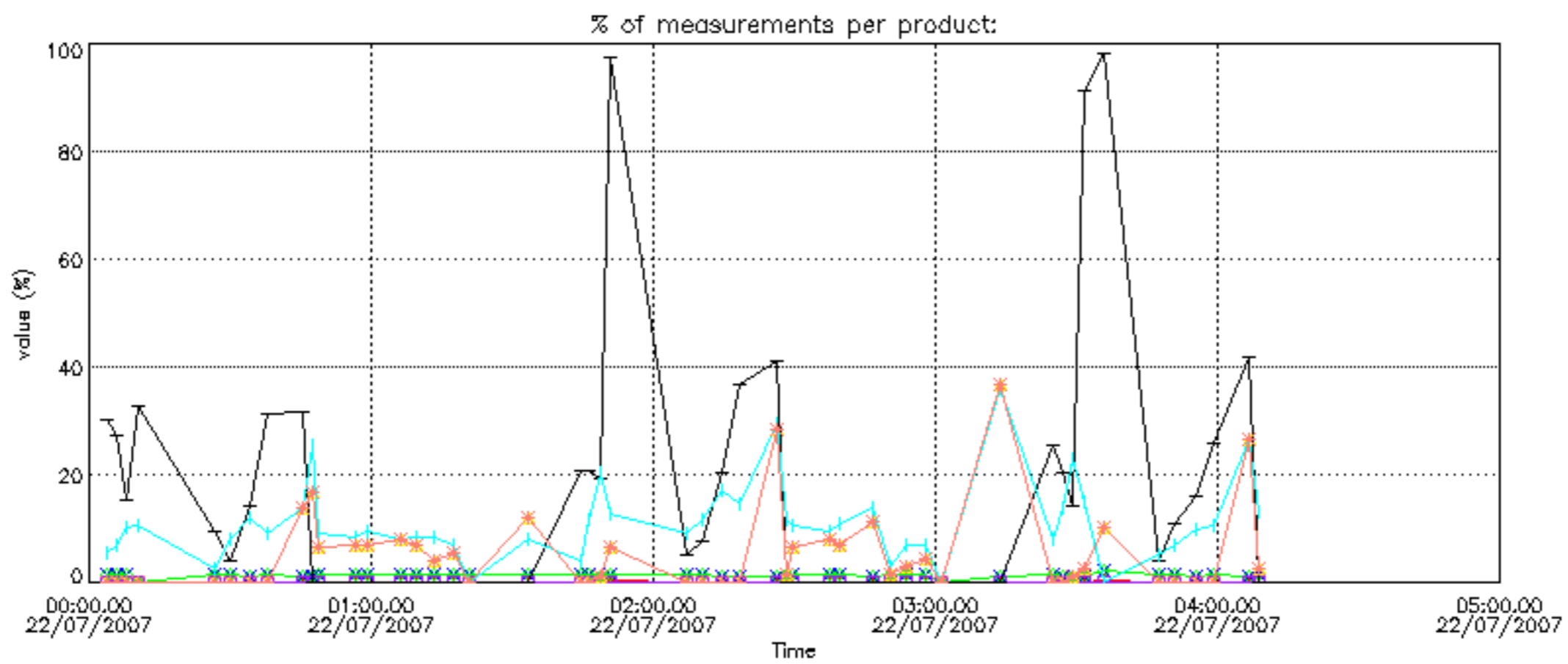
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	22-JUL-2007 00:03:51
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070713_071616_20070710_000000_20100101_000000	1	22-JUL-2007 00:03:51
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	22-JUL-2007 00:03:51
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	22-JUL-2007 00:03:51
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	22-JUL-2007 00:03:51
ECMWF_FILE	AUX_ECF_AXNECM20070721_061112_20070721_210000_20070722_090000	1	22-JUL-2007 00:03:51
ECMWF_FILE	AUX_ECF_AXNECM20070721_235120_20070721_210000_20070722_090000	5	22-JUL-2007 00:26:28
ECMWF_FILE	AUX_ECF_AXNECM20070721_235116_20070722_030000_20070722_150000	38	22-JUL-2007 03:13:50
OPTIONAL_ECMWF_FILE	MISSING	1	22-JUL-2007 00:03:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070721_204615_000057382060_00071_28181_3822.N1	1	22-JUL-2007 00:03:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070721_222712_000057382060_00072_28182_3823.N1	5	22-JUL-2007 00:26:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070722_014347_000044632060_00074_28184_3825.N1	22	22-JUL-2007 01:48:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070722_030329_000057382060_00075_28185_3826.N1	38	22-JUL-2007 03:13:50

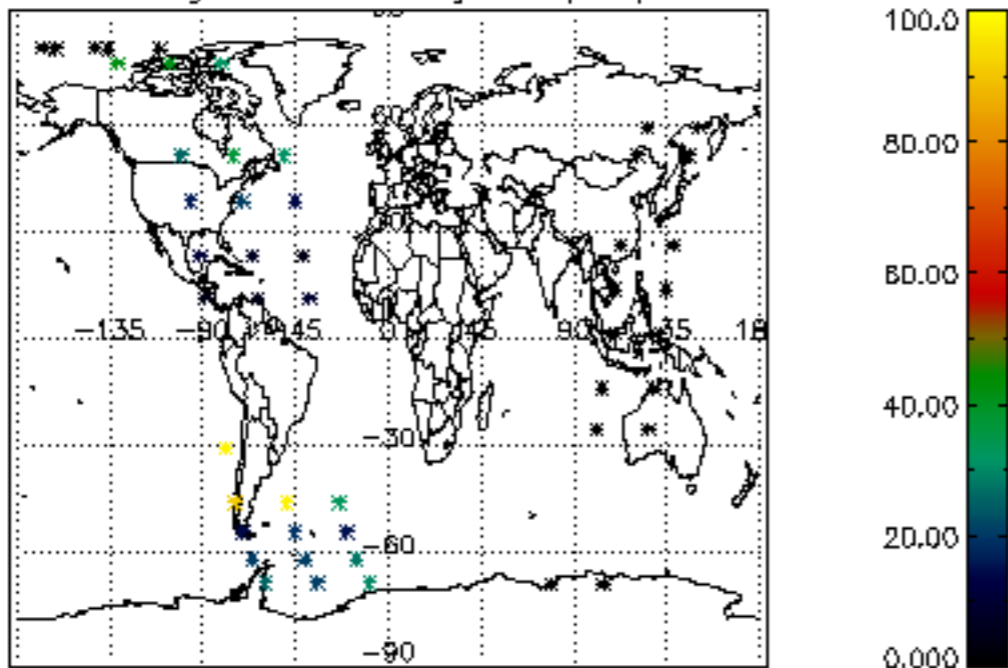




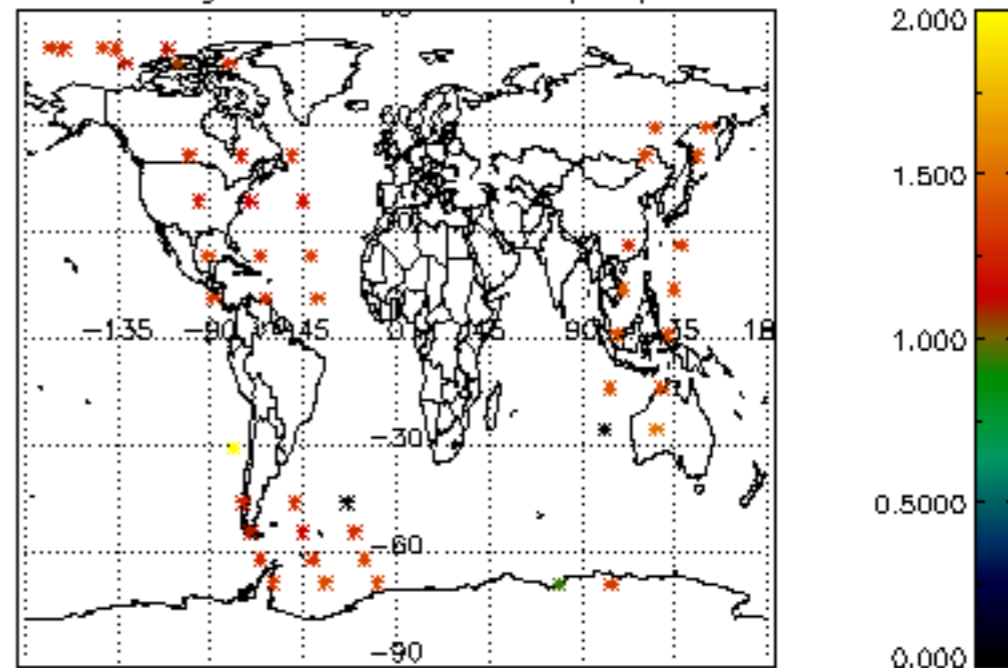




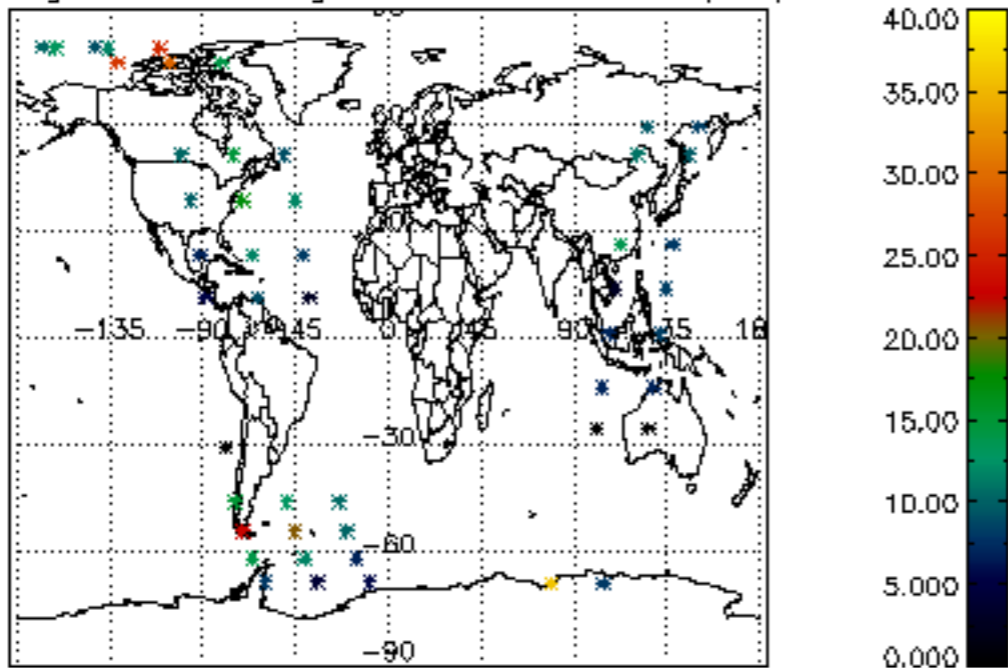
Percentage of cosmic ray hits per profile



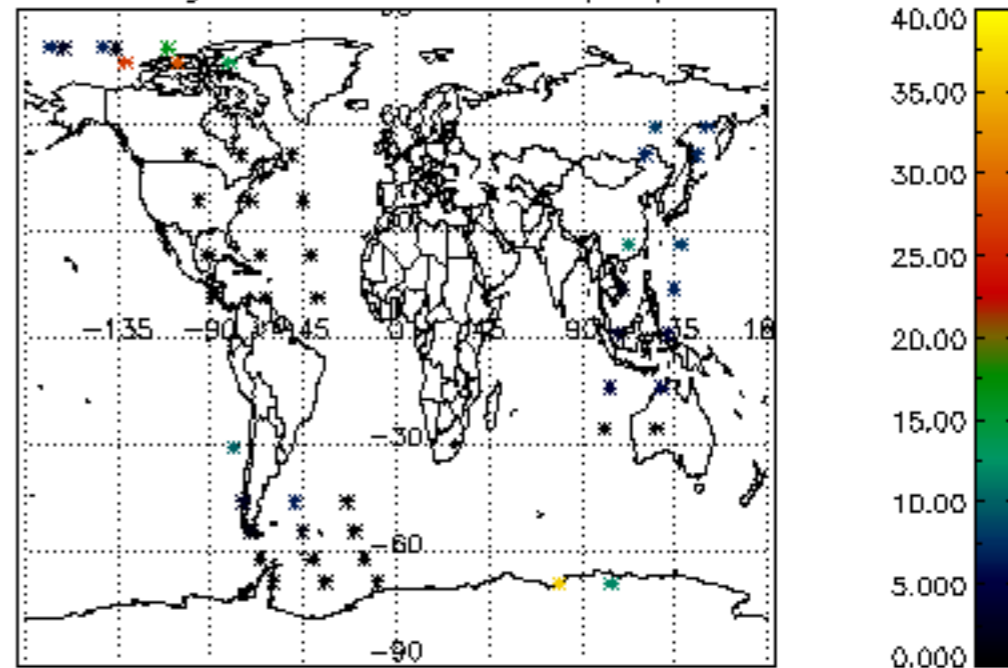
Percentage of datation errors per profile



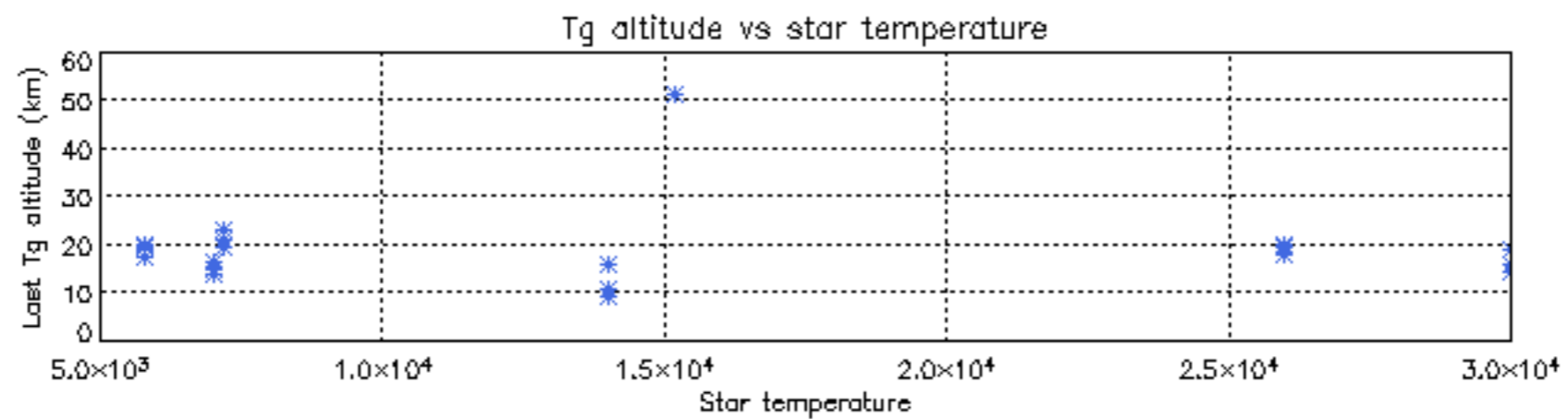
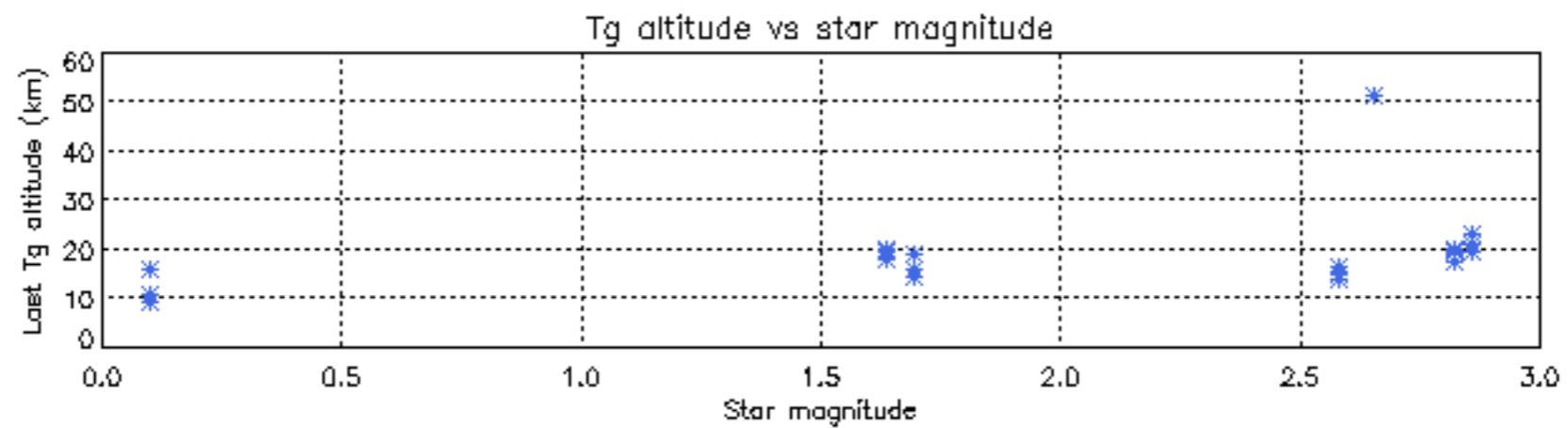
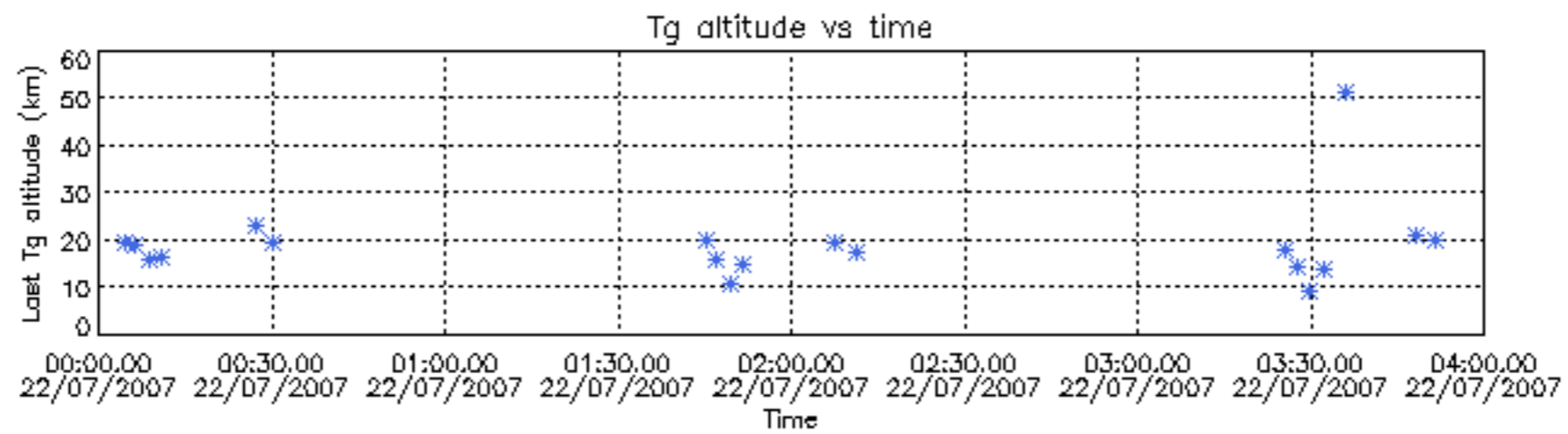
Percentage of star falling outside central band per profile



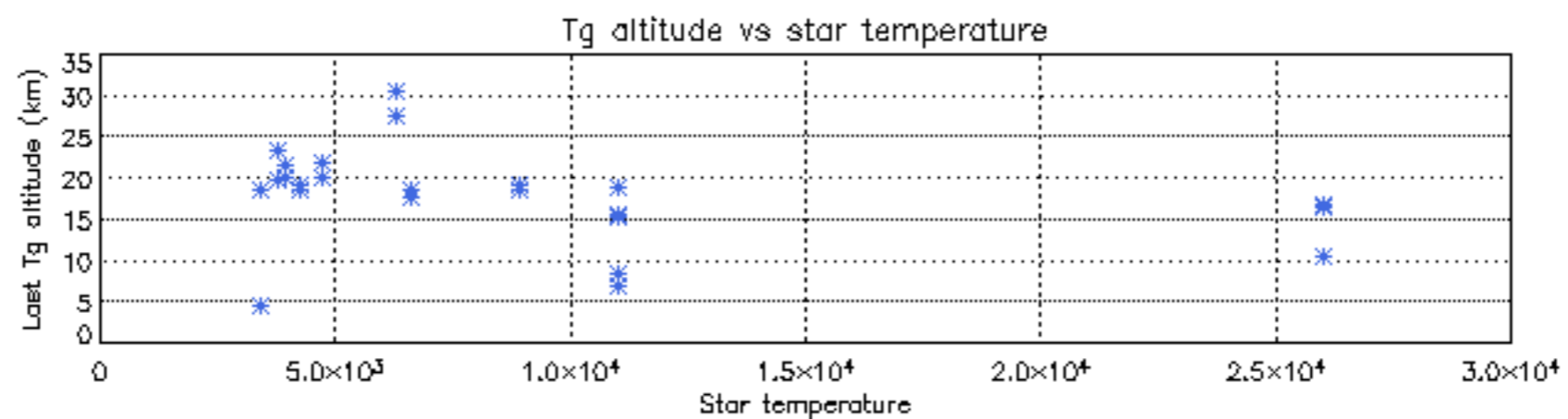
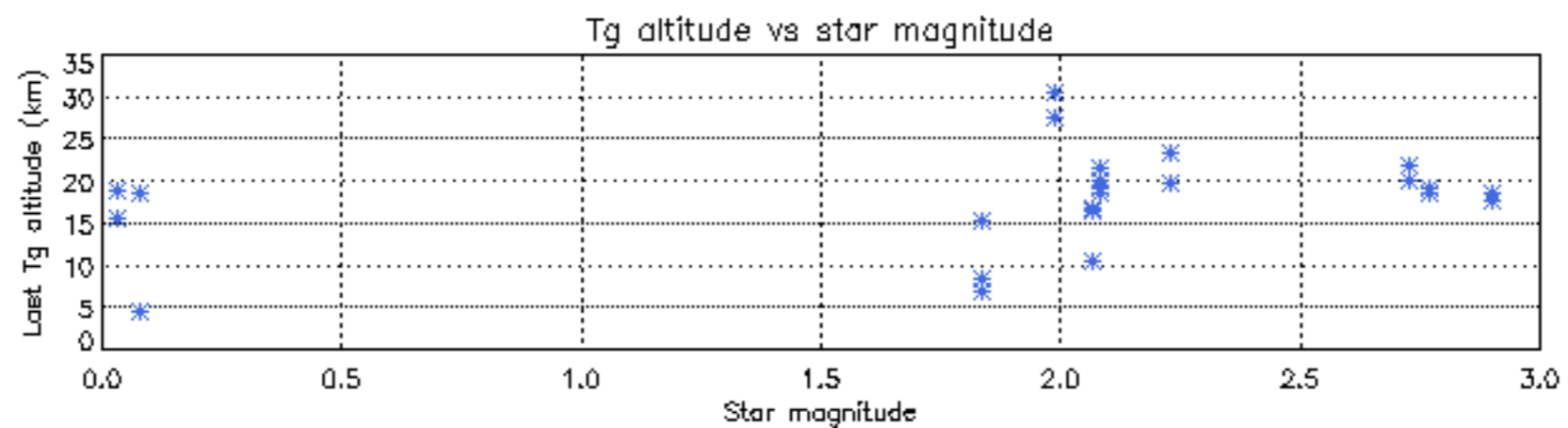
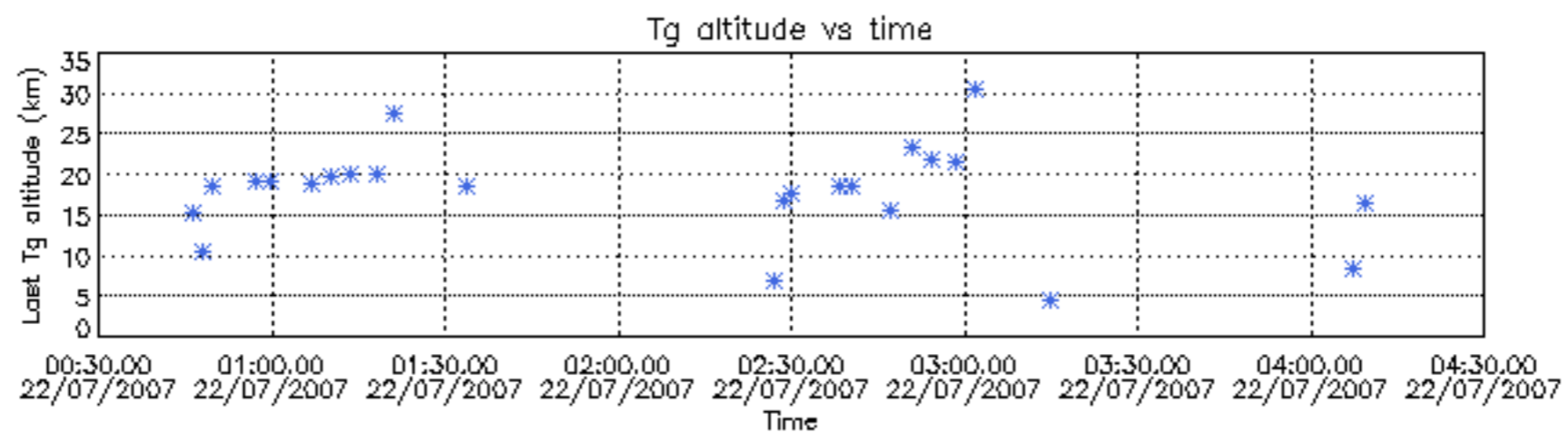
Percentage of saturation errors per profile

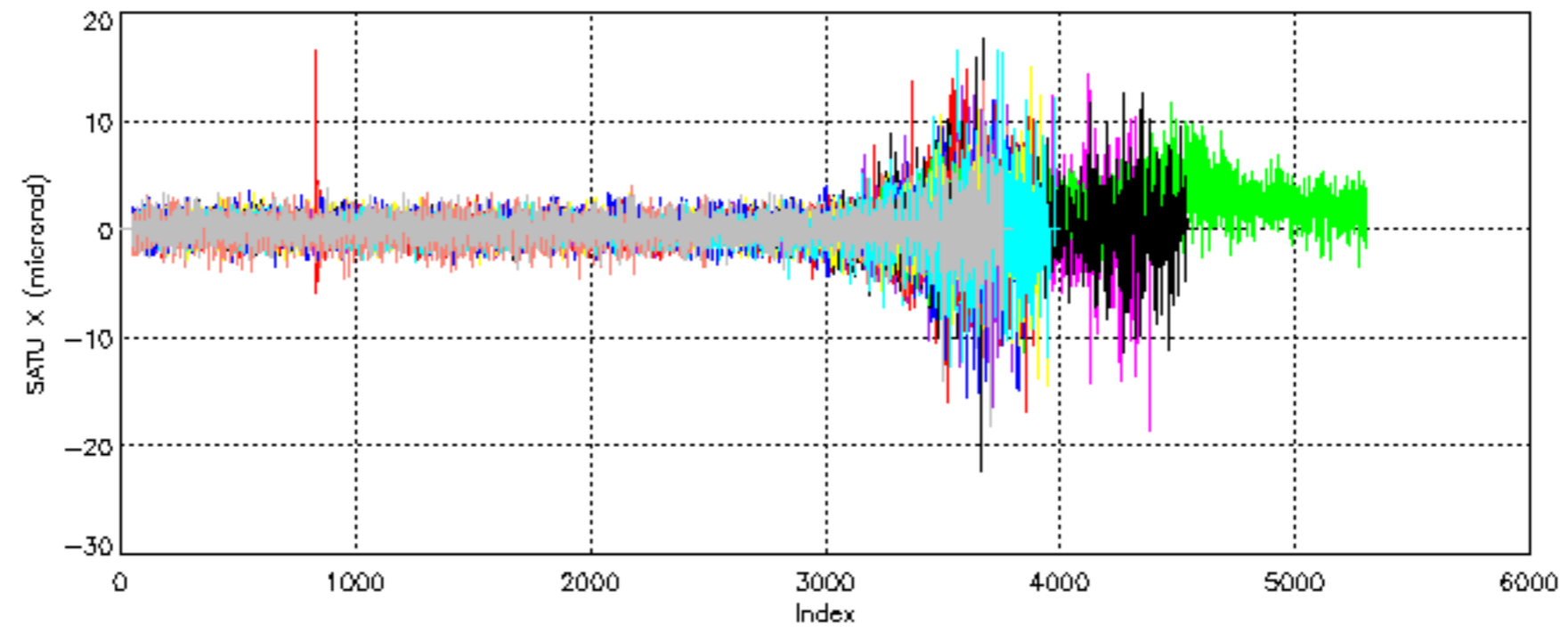


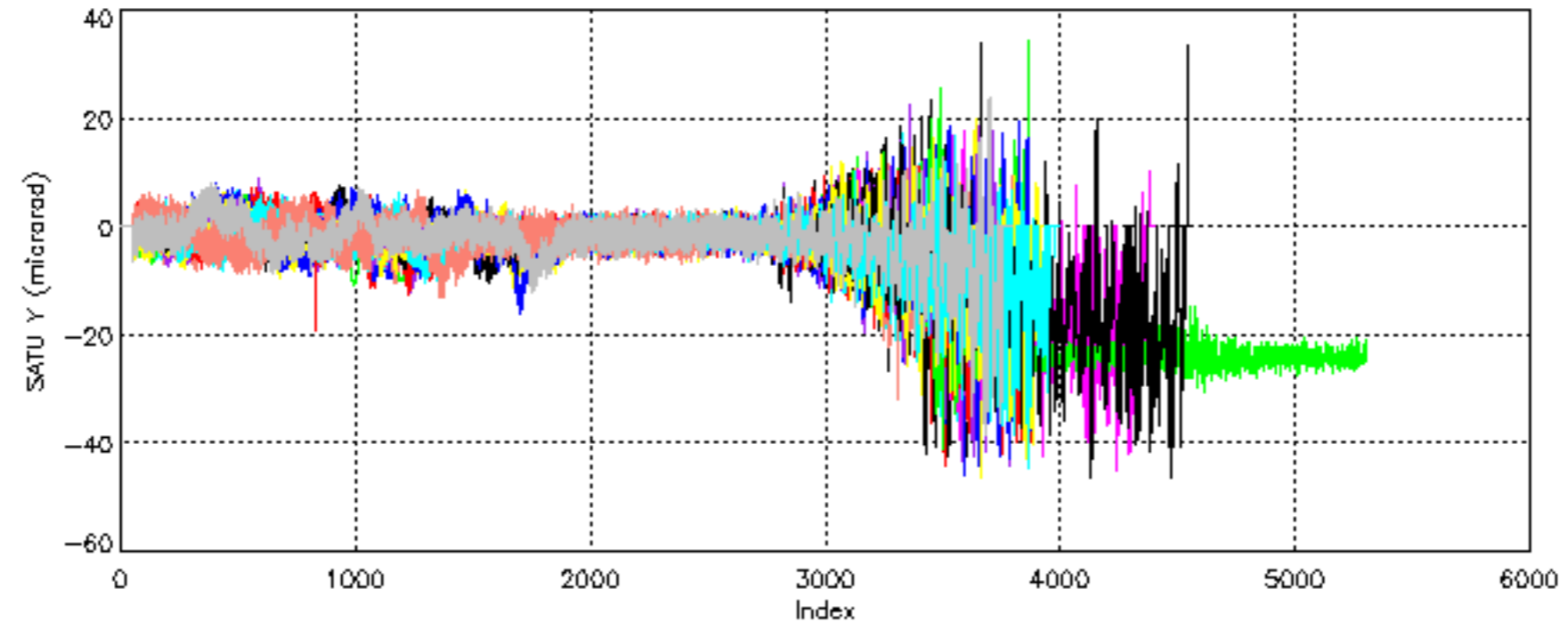
Tangent altitude at which the star is lost

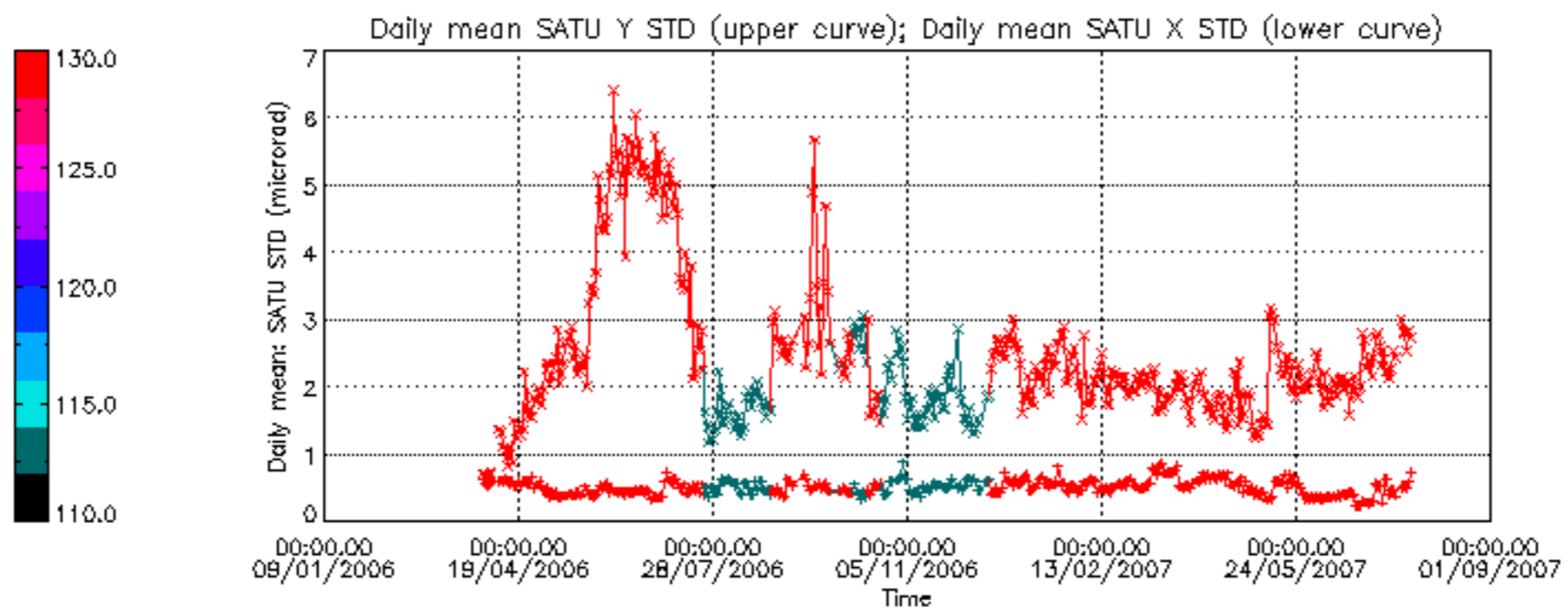


Tangent altitude at which the star is lost










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16; 6721.7; 27-JUL-2007 11:21:28; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;28261
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