

GOMOS Daily Report 21-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	23JUL2007 08:22:53
Data source version	GOMOS/5.00
Start time of products	21-07-2007 (21JUL2007 00:00:00)
Stop time of products	22-07-2007 (22JUL2007 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)

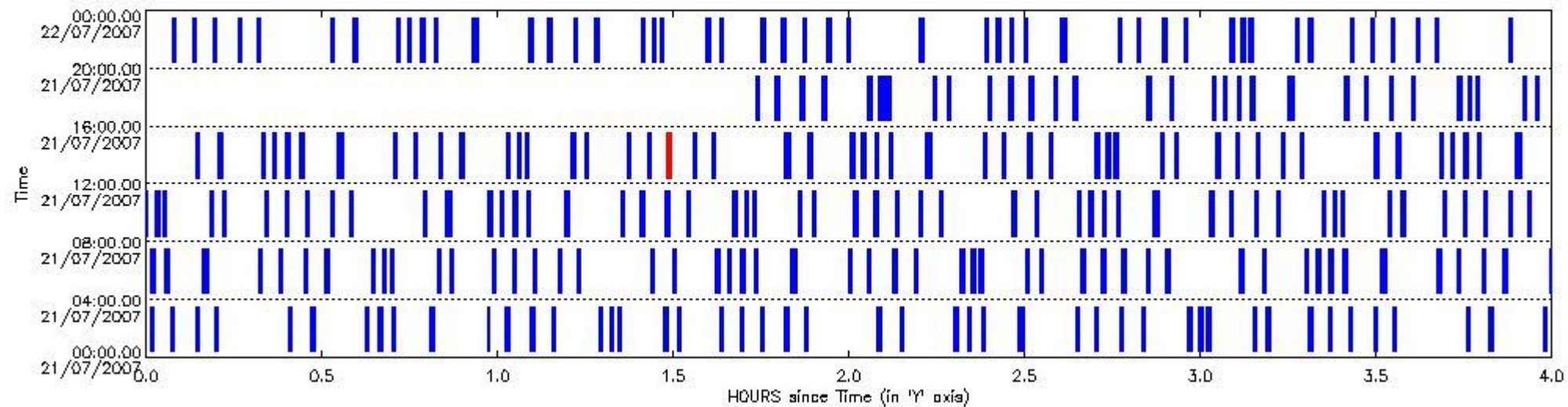
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

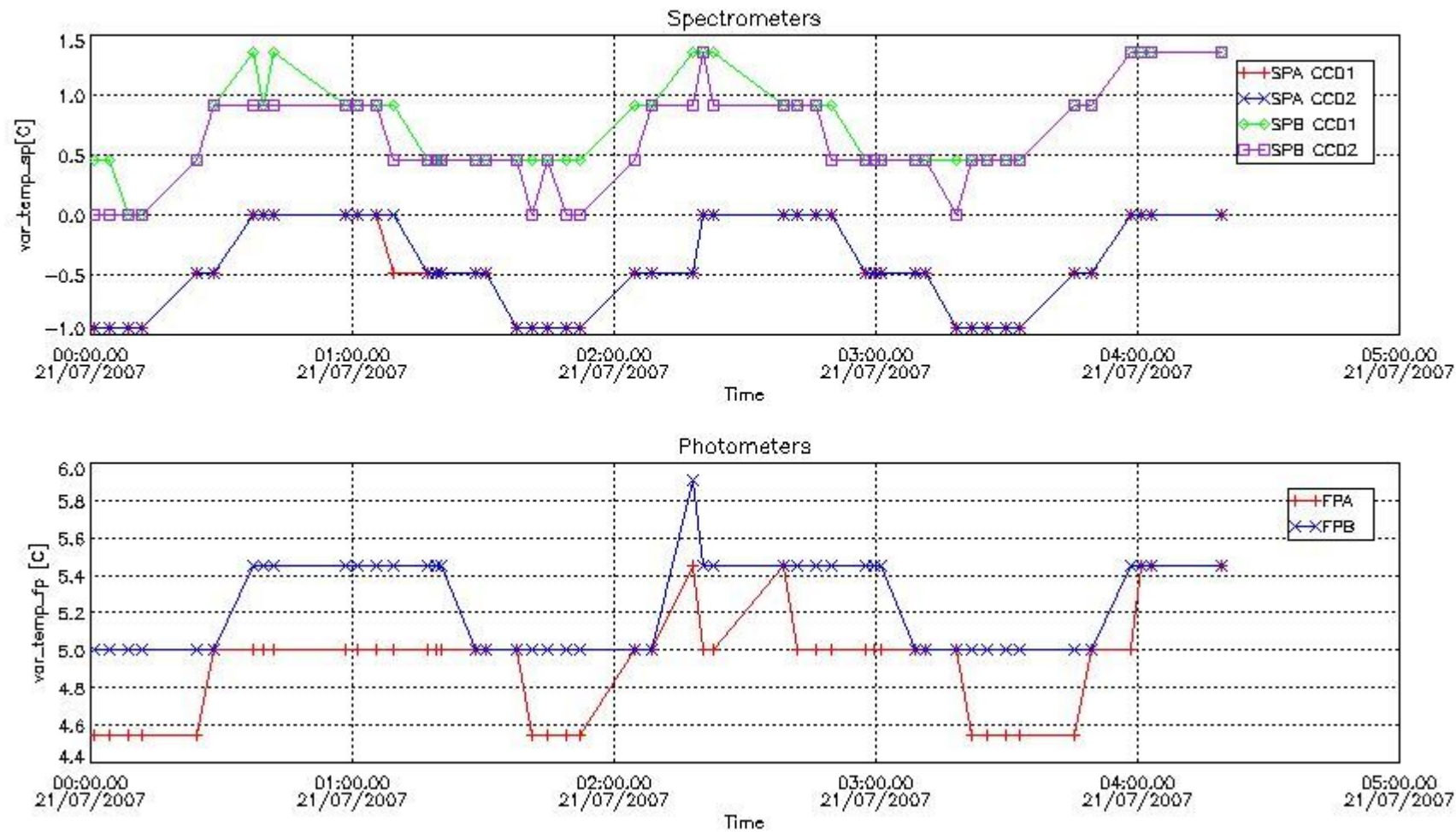
UTC start time	Star name	Star ID	Orbit
21-JUL-2007 13:28:52	14EtaDra	119	28177

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_1PNPDE20070721_000043_000000332060_00059_28169_3435.N1	21-JUL-2007 00:00:43	Bright	33.000	69	33Gam Dra	2.2310	3800.0	66	28169	No
2	GOM_TRA_1PNPDE20070721_000411_000000372060_00059_28169_3436.N1	21-JUL-2007 00:04:11	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	28169	No
3	GOM_TRA_1PNPDE20070721_000826_000000372060_00059_28169_3437.N1	21-JUL-2007 00:08:26	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	28169	No
4	GOM_TRA_1PNPDE20070721_001144_000000322060_00059_28169_3438.N1	21-JUL-2007 00:11:44	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	28169	No
5	GOM_TRA_1PNPDE20070721_002414_000000372060_00059_28169_3439.N1	21-JUL-2007 00:24:14	Bright	36.500	6	13Alp Aur	0.080000	3400.0	73	28169	No
6	GOM_TRA_1PNPDE20070721_002806_000000402060_00059_28169_3440.N1	21-JUL-2007 00:28:06	Bright	40.000	114	3Iot Aur	2.6930	4600.0	80	28169	No
7	GOM_TRA_1PNPDE20070721_003721_000000362060_00059_28169_3441.N1	21-JUL-2007 00:37:21	Dark	36.000	30	46Eps Ori	1.6940	30000.	72	28169	No
8	GOM_TRA_1PNPDE20070721_003935_000000392060_00059_28169_3442.N1	21-JUL-2007 00:39:35	Dark	39.000	7	19Bet Ori	0.10000	14000.	78	28169	No
9	GOM_TRA_1PNPDE20070721_004158_000000372060_00059_28169_3573.N1	21-JUL-2007 00:41:58	Dark	36.500	101	11Alp Lep	2.5820	7000.0	73	28169	No
10	GOM_TRA_1PNPDE20070721_005814_000000262060_00060_28170_3574.N1	21-JUL-2007 00:58:14	Dark	26.000	9	Alp Eri	0.45300	24000.	52	28170	No

11	GOM_TRA_1PNPDE20070721_010121_000000372060_00060_28170_3575.N1	21-JUL-2007 01:01:21	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	28170	No
12	GOM_TRA_1PNPDE20070721_010538_000000412060_00060_28170_3576.N1	21-JUL-2007 01:05:38	Straylight	41.000	148	Alp Tuc	2.8780	4100.0	82	28170	No
13	GOM_TRA_1PNPDE20070721_010919_000000382060_00060_28170_3577.N1	21-JUL-2007 01:09:19	Straylight	37.500	45	Alp Pav	1.9400	26000.	75	28170	No
14	GOM_TRA_1PNPDE20070721_011711_000000392060_00060_28170_3578.N1	21-JUL-2007 01:17:11	Bright	39.000	38	20Eps Sgr	1.8360	11000.	78	28170	No
15	GOM_TRA_1PNPDE20070721_011905_000000382060_00060_28170_3579.N1	21-JUL-2007 01:19:05	Bright	38.000	57	34Sig Sgr	2.0660	26000.	76	28170	No
16	GOM_TRA_1PNPDE20070721_012026_000000382060_00060_28170_3580.N1	21-JUL-2007 01:20:26	Bright	38.000	155	41Pi Sgr	2.9000	6600.0	76	28170	No
17	GOM_TRA_1PNPDE20070721_012823_000000362060_00060_28170_3581.N1	21-JUL-2007 01:28:23	Bright	36.000	126	60Bet Oph	2.7700	4250.0	72	28170	No
18	GOM_TRA_1PNPDE20070721_013041_000000362060_00060_28170_3582.N1	21-JUL-2007 01:30:41	Bright	36.000	59	55Alp Oph	2.0800	8900.0	72	28170	No
19	GOM_TRA_1PNPDE20070721_013749_000000402060_00060_28170_3583.N1	21-JUL-2007 01:37:49	Bright	39.500	5	3Alp Lyr	0.033000	11000.	79	28170	No
20	GOM_TRA_1PNPDE20070721_014119_000000332060_00060_28170_3584.N1	21-JUL-2007 01:41:19	Bright	33.000	69	33Gam Dra	2.2310	3800.0	66	28170	No
21	GOM_TRA_1PNPDE20070721_014447_000000362060_00060_28170_3585.N1	21-JUL-2007 01:44:47	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	28170	No
22	GOM_TRA_1PNPDE20070721_014902_000000362060_00060_28170_3586.N1	21-JUL-2007 01:49:02	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	28170	No
23	GOM_TRA_1PNPDE20070721_015220_000000342060_00060_28170_3587.N1	21-JUL-2007 01:52:20	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	28170	No
24	GOM_TRA_1PNPDE20070721_020450_000000472060_00060_28170_3588.N1	21-JUL-2007 02:04:50	Bright	47.000	6	13Alp Aur	0.080000	3400.0	94	28170	No
25	GOM_TRA_1PNPDE20070721_020842_000000392060_00060_28170_3589.N1	21-JUL-2007 02:08:42	Bright	39.000	114	3lot Aur	2.6930	4600.0	78	28170	No
26	GOM_TRA_1PNPDE20070721_021757_000000382060_00060_28170_3693.N1	21-JUL-2007 02:17:57	Dark	38.000	30	46Eps Ori	1.6940	30000.	76	28170	Yes
27	GOM_TRA_1PNPDE20070721_022012_000000432060_00060_28170_3694.N1	21-JUL-2007 02:20:12	Dark	42.500	7	19Bet Ori	0.10000	14000.	85	28170	No
28	GOM_TRA_1PNPDE20070721_022234_000000392060_00060_28170_3695.N1	21-JUL-2007 02:22:34	Dark	38.500	101	11Alp Lep	2.5820	7000.0	77	28170	No
29	GOM_TRA_1PNPDE20070721_023851_000000262060_00061_28171_3696.N1	21-JUL-2007 02:38:51	Dark	26.000	9	Alp Eri	0.45300	24000.	52	28171	No
30	GOM_TRA_1PNPDE20070721_024157_000000362060_00061_28171_3697.N1	21-JUL-2007 02:41:57	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	28171	No
31	GOM_TRA_1PNPDE20070721_024614_000000412060_00061_28171_3698.N1	21-JUL-2007 02:46:14	Straylight	41.000	148	Alp Tuc	2.8780	4100.0	82	28171	No
32	GOM_TRA_1PNPDE20070721_024955_000000392060_00061_28171_3699.N1	21-JUL-2007 02:49:55	Straylight	39.000	45	Alp Pav	1.9400	26000.	78	28171	No
33	GOM_TRA_1PNPDE20070721_025747_000000412060_00061_28171_3700.N1	21-JUL-2007 02:57:47	Bright	40.500	38	20Eps Sgr	1.8360	11000.	81	28171	No
34	GOM_TRA_1PNPDE20070721_025941_000000382060_00061_28171_3701.N1	21-JUL-2007 02:59:41	Bright	37.500	57	34Sig Sgr	2.0660	26000.	75	28171	No
35	GOM_TRA_1PNPDE20070721_030102_000000392060_00061_28171_3702.N1	21-JUL-2007 03:01:02	Bright	38.500	155	41Pi Sgr	2.9000	6600.0	77	28171	No
36	GOM_TRA_1PNPDE20070721_030859_000000372060_00061_28171_3703.N1	21-JUL-2007 03:08:59	Bright	36.500	126	60Bet Oph	2.7700	4250.0	73	28171	No
37	GOM_TRA_1PNPDE20070721_031117_000000362060_00061_28171_3704.N1	21-JUL-2007 03:11:17	Bright	36.000	59	55Alp Oph	2.0800	8900.0	72	28171	No
38	GOM_TRA_1PNPDE20070721_031825_000000402060_00061_28171_3705.N1	21-JUL-2007 03:18:25	Bright	40.000	5	3Alp Lyr	0.033000	11000.	80	28171	No
39	GOM_TRA_1PNPDE20070721_032155_000000352060_00061_28171_3706.N1	21-JUL-2007 03:21:55	Bright	35.000	69	33Gam Dra	2.2310	3800.0	70	28171	No
40	GOM_TRA_1PNPDE20070721_032523_000000342060_00061_28171_3707.N1	21-JUL-2007 03:25:23	Bright	34.000	119	14Eta Dra	2.7270	4700.0	68	28171	No
41	GOM_TRA_1PNPDE20070721_032938_000000372060_00061_28171_3708.N1	21-JUL-2007 03:29:38	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	28171	No
42	GOM_TRA_1PNPDE20070721_033256_000000322060_00061_28171_3709.N1	21-JUL-2007 03:32:56	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	28171	No
43	GOM_TRA_1PNPDE20070721_034526_000000382060_00061_28171_3856.N1	21-JUL-2007 03:45:26	Bright	38.000	6	13Alp Aur	0.080000	3400.0	76	28171	No
44	GOM_TRA_1PNPDE20070721_034918_000000412060_00061_28171_3857.N1	21-JUL-2007 03:49:18	Bright	40.500	114	3lot Aur	2.6930	4600.0	81	28171	No
45	GOM_TRA_1PNPDE20070721_035833_000000392060_00061_28171_3858.N1	21-JUL-2007 03:58:33	Dark	38.500	30	46Eps Ori	1.6940	30000.	77	28171	No
46	GOM_TRA_1PNPDE20070721_040048_000000452060_00061_28171_3859.N1	21-JUL-2007 04:00:48	Dark	44.500	7	19Bet Ori	0.10000	14000.	89	28171	No
47	GOM_TRA_1PNPDE20070721_040310_000000382060_00061_28171_3860.N1	21-JUL-2007 04:03:10	Dark	38.000	101	11Alp Lep	2.5820	7000.0	76	28171	No
48	GOM_TRA_1PNPDE20070721_041911_000000402060_00062_28172_3861.N1	21-JUL-2007 04:19:11	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	28172	No

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



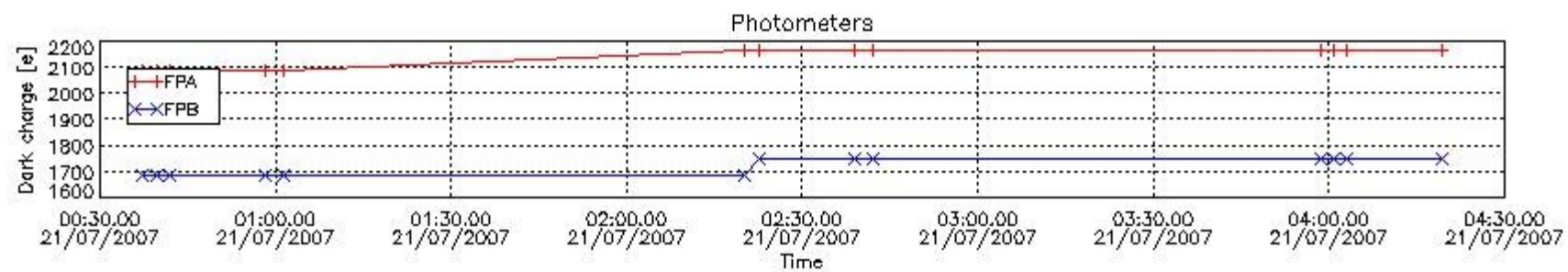
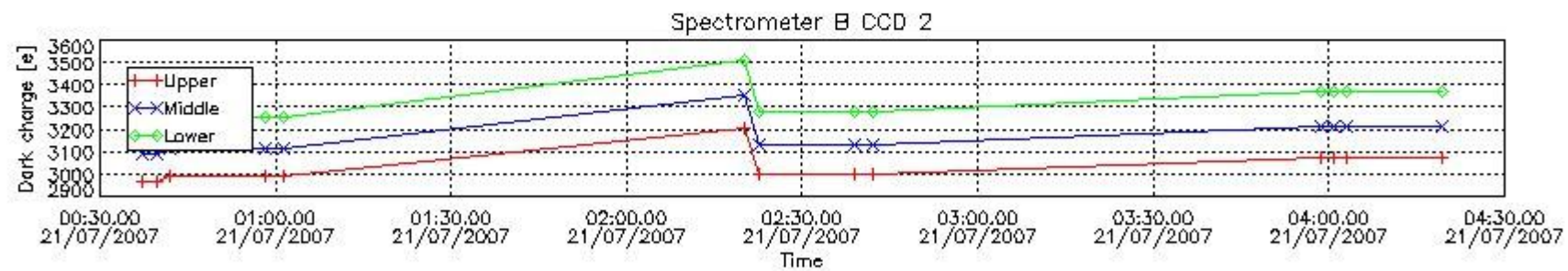
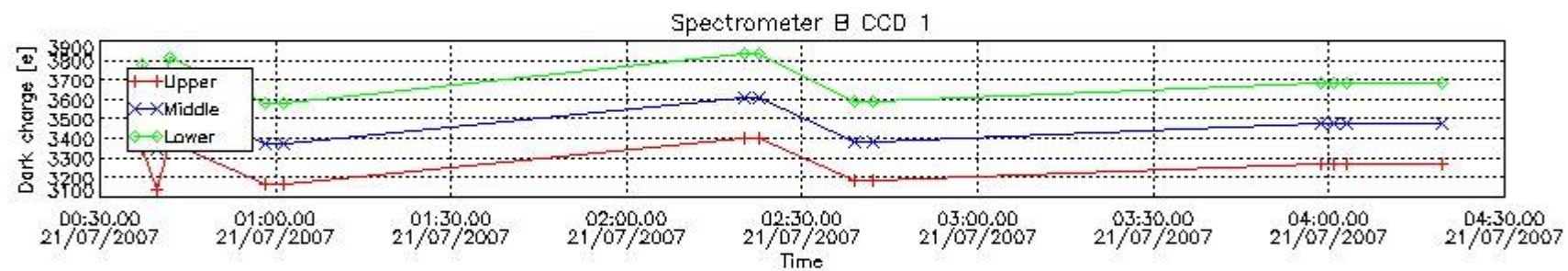
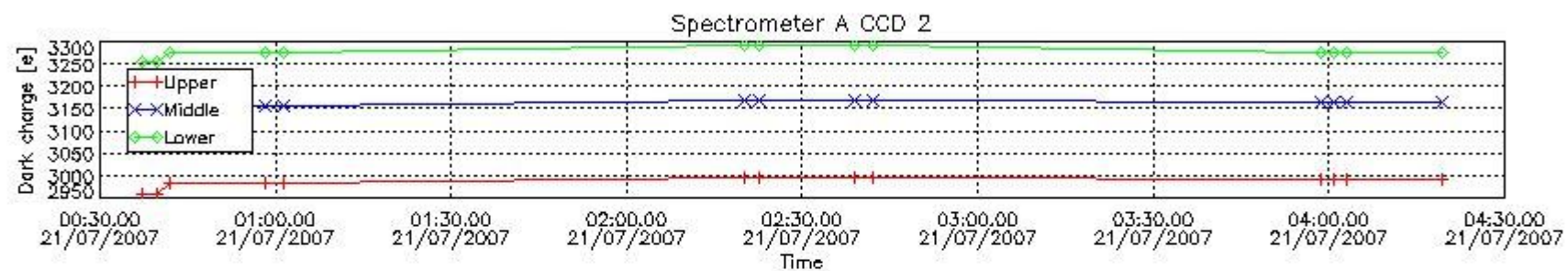
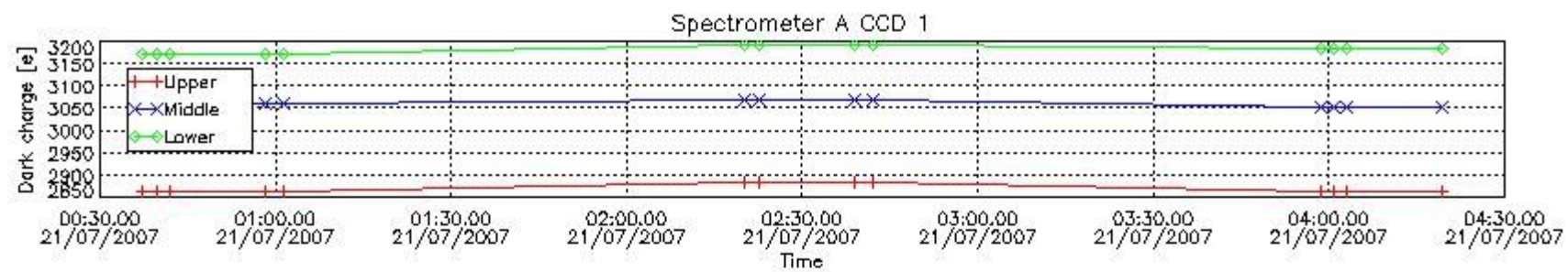
4. Overview of dark signal processing per product

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



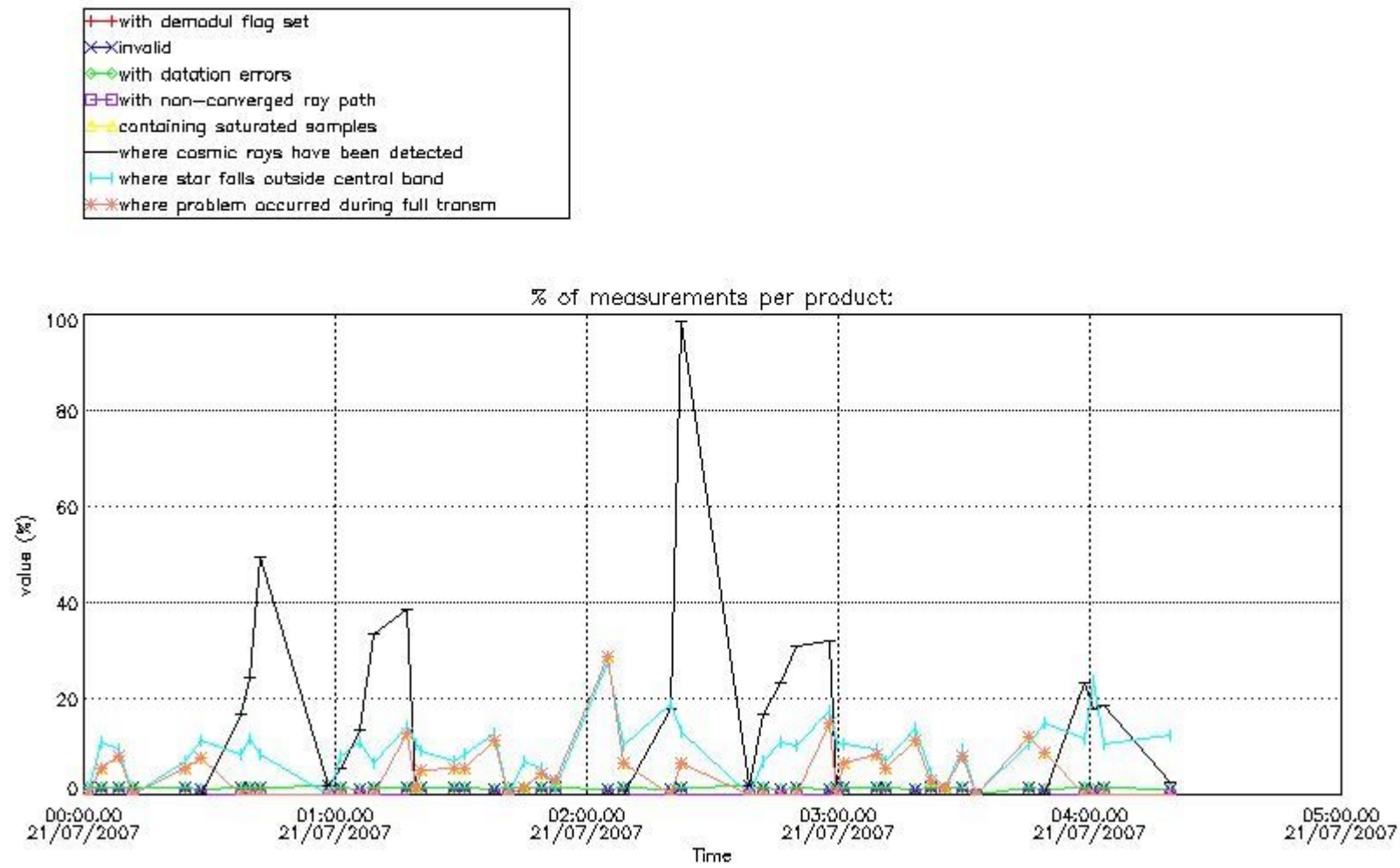
5. Demodulation flag and quality information monitoring

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.

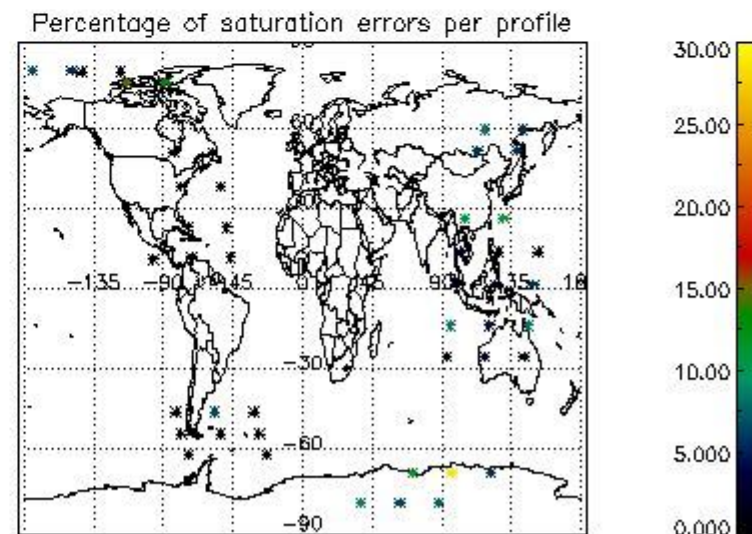
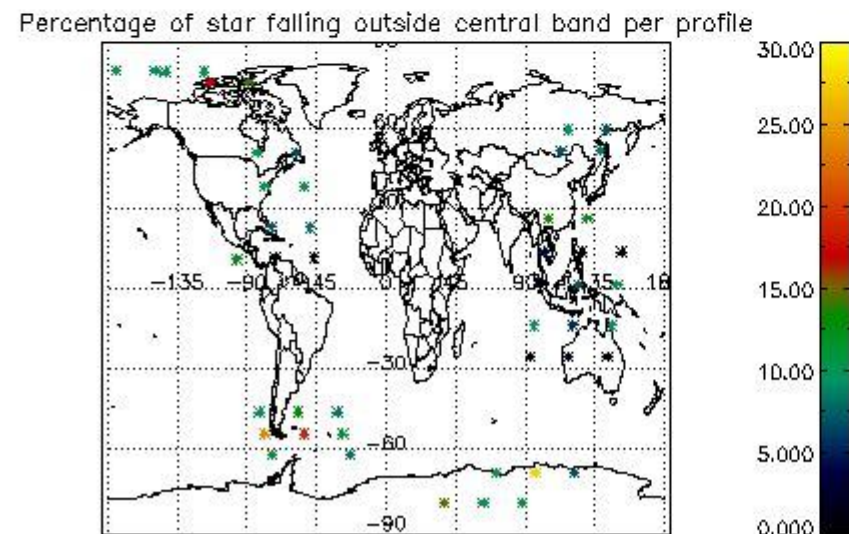
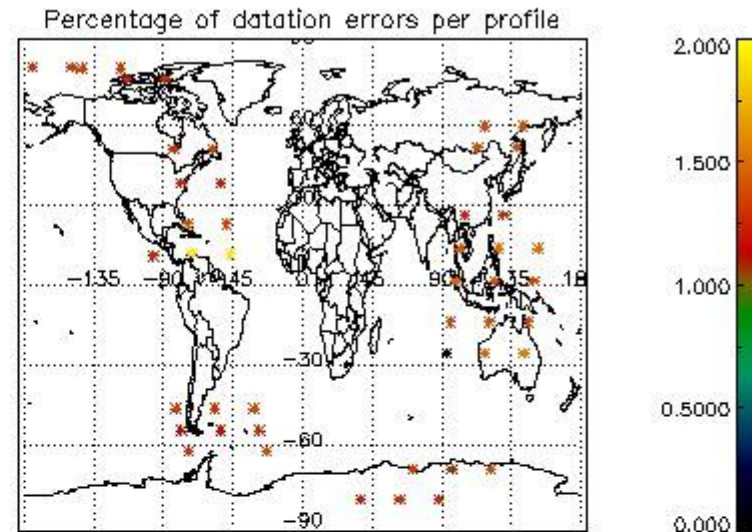
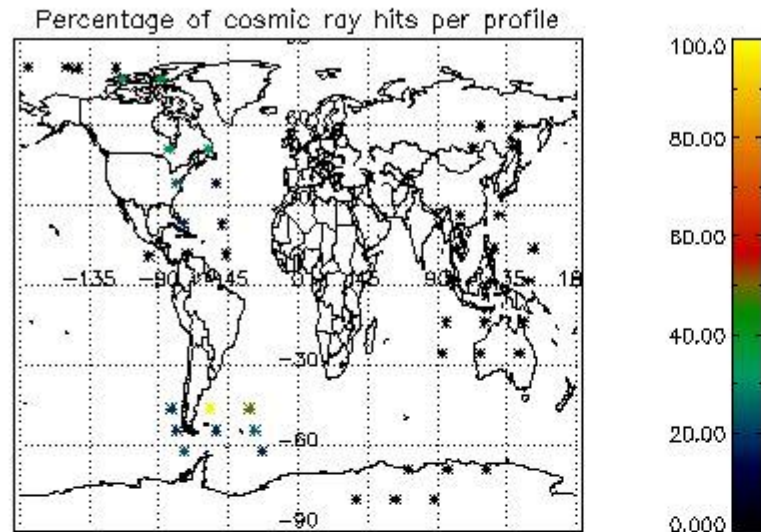
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	8.51064 %
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)



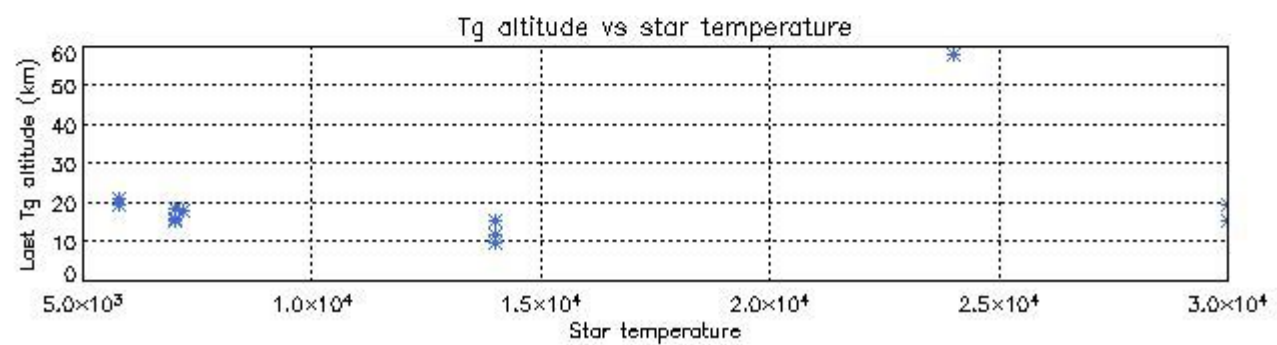
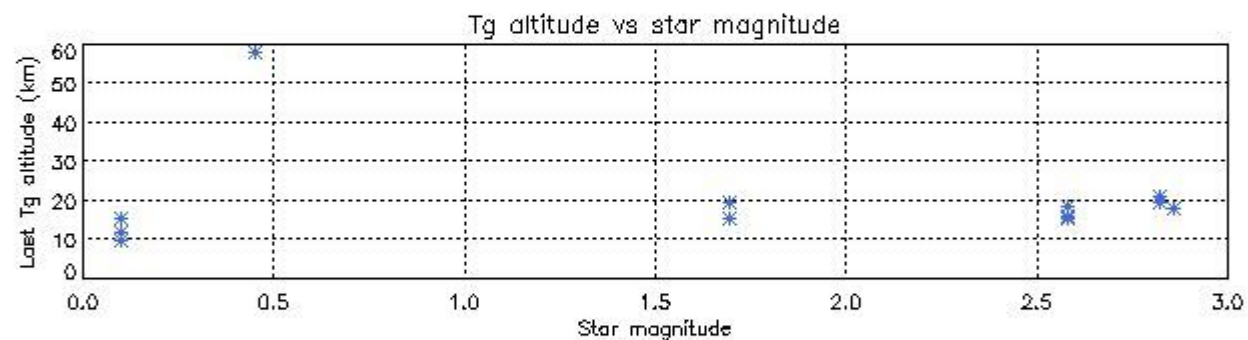
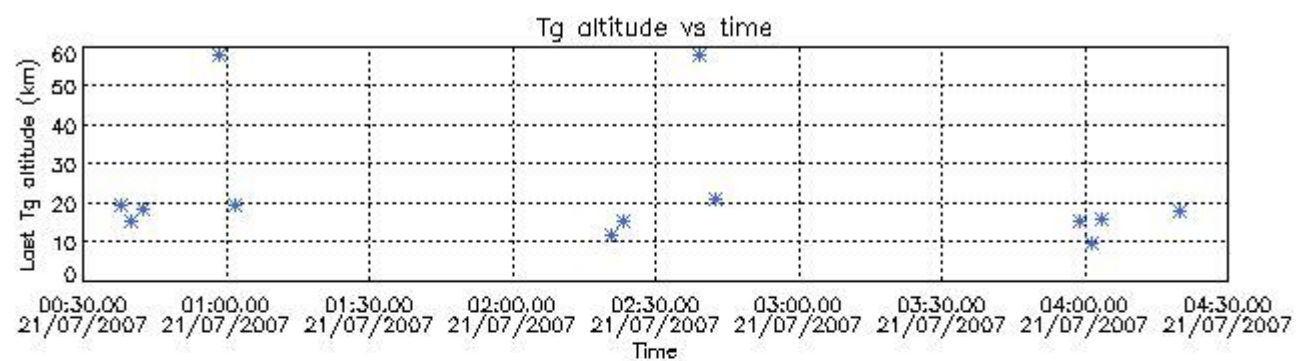
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	22.773	19.797	NaN
St. deviation:	15.843	4.7142	NaN
Maximum:	57.845	30.467	NaN
Minimum:	9.9573	8.4883	NaN
Number of data:	13.000	30.000	NaN

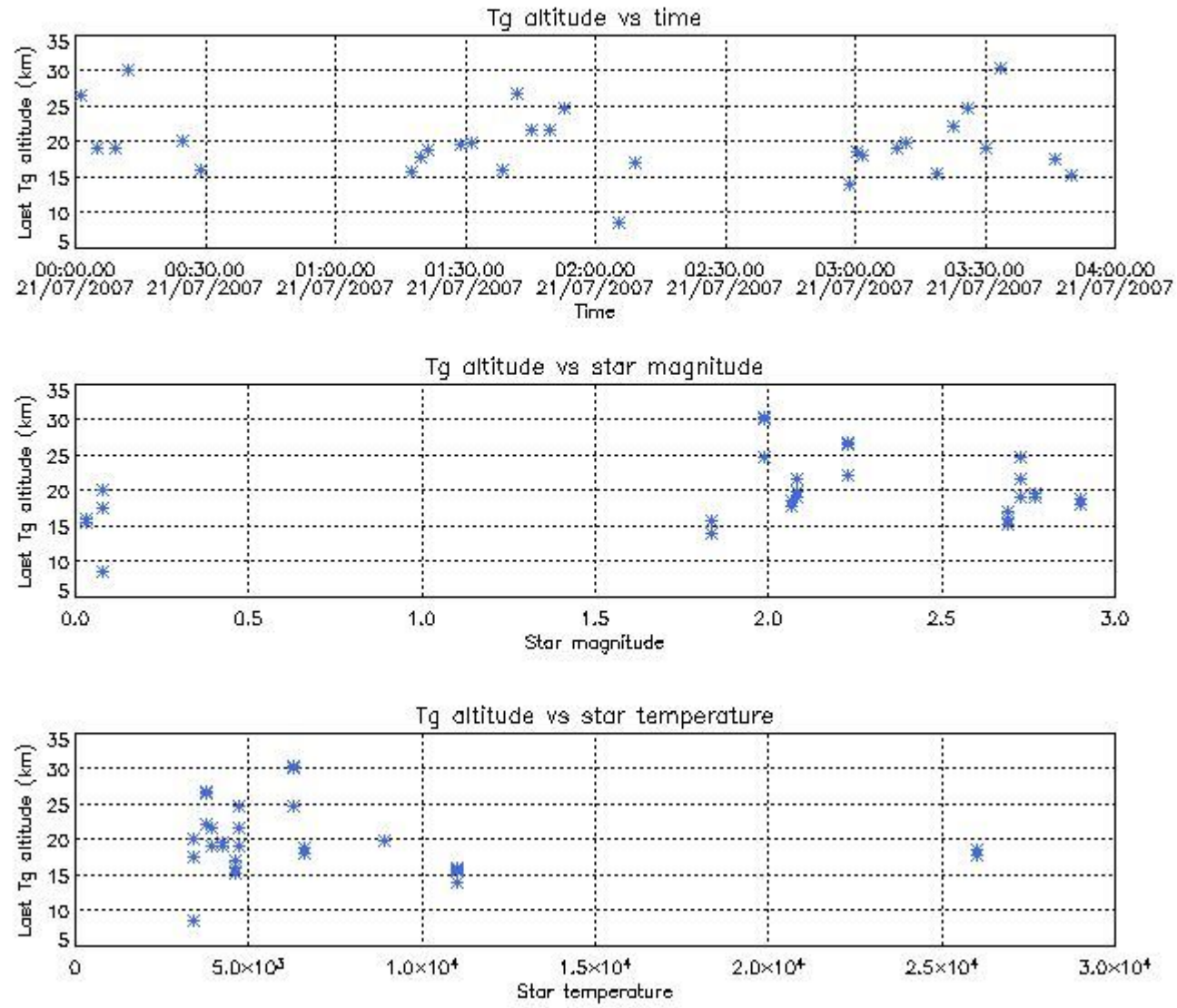
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

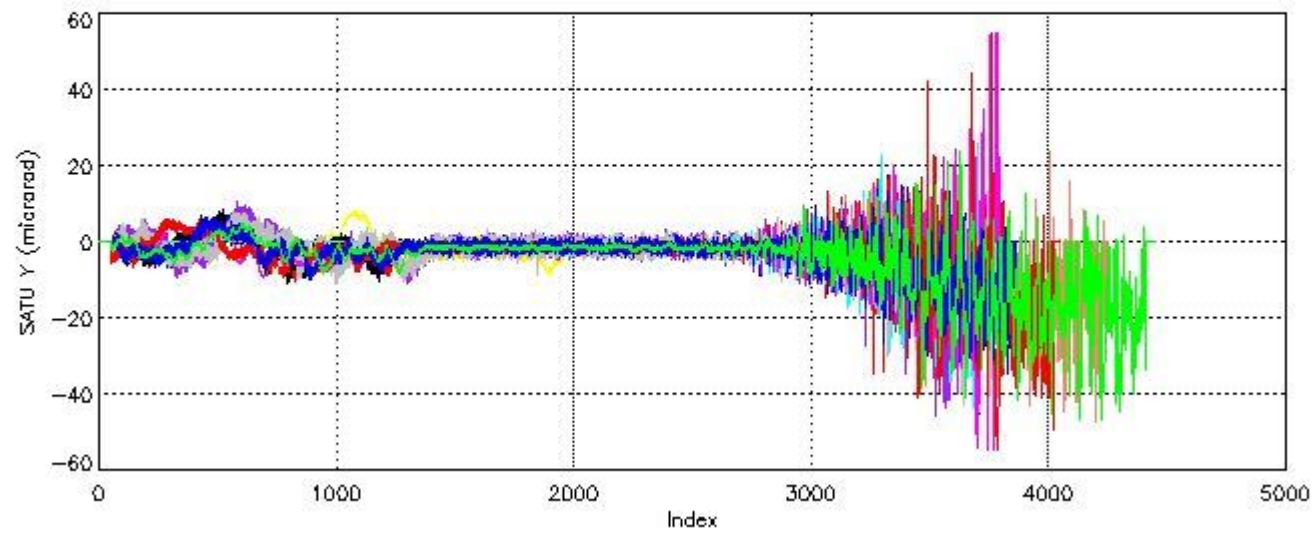
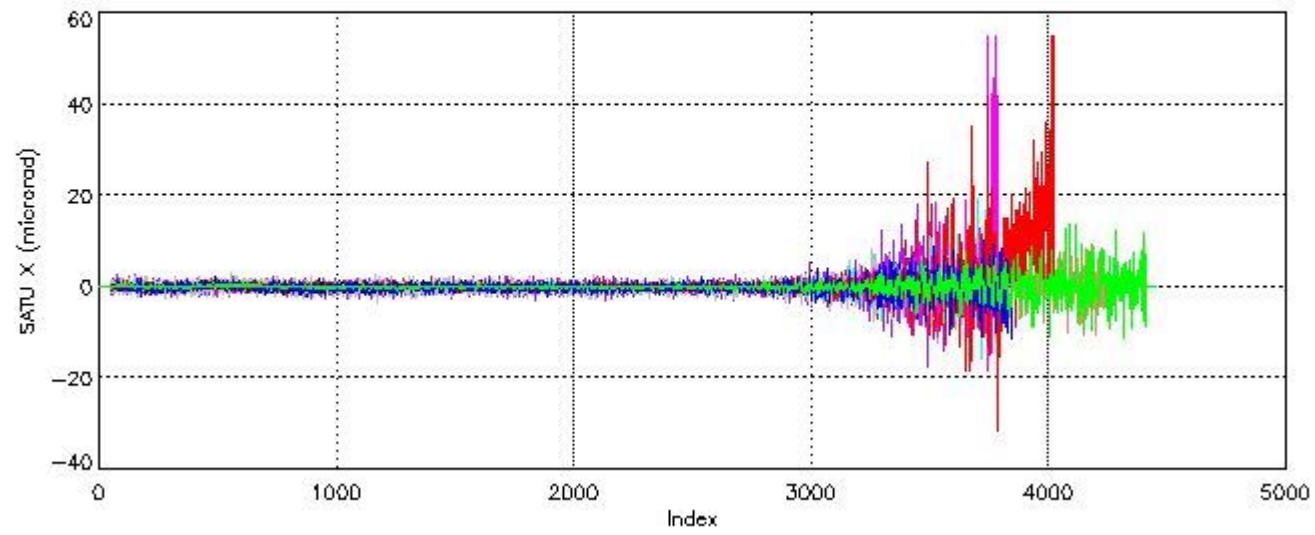


7. Star Acquisition and Tracking Unit (SATU)

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:	-0.014816	-0.66218	0.033907	-0.80674
St. deviation:	0.57733	2.8328	0.53955	2.6366
Maximum:	3.3000	10.300	4.2000	10.300
Minimum:	-3.0000	-10.300	-6.6000	-9.8000

Number of data:	11400.	11400.	24900.	24900.
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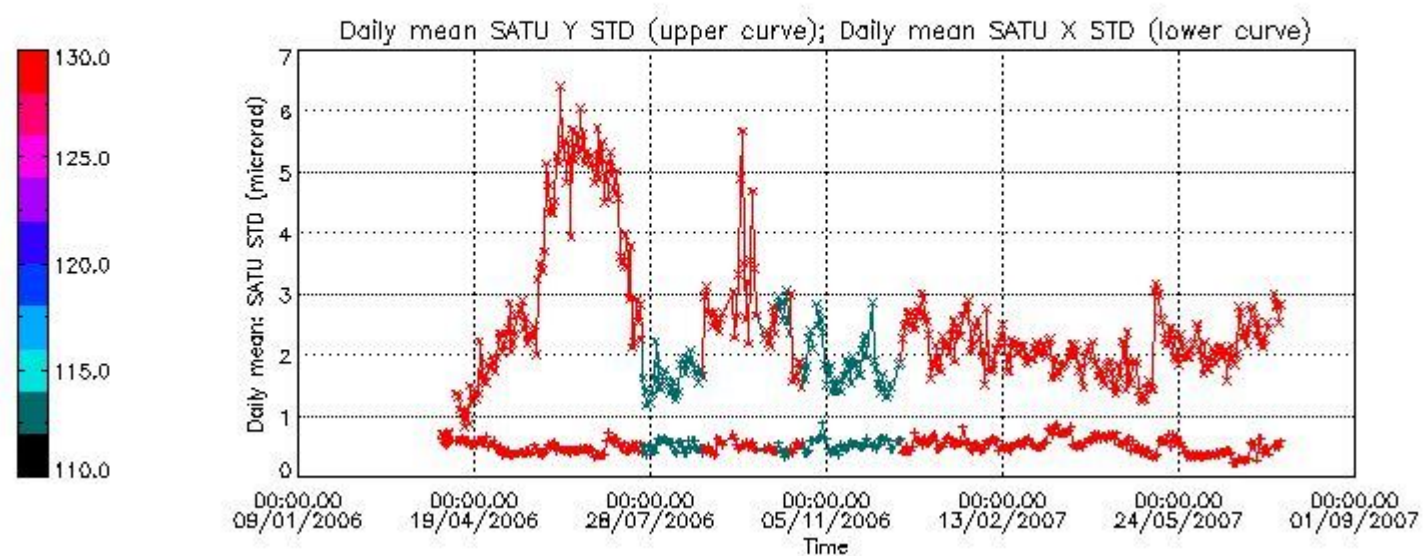
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

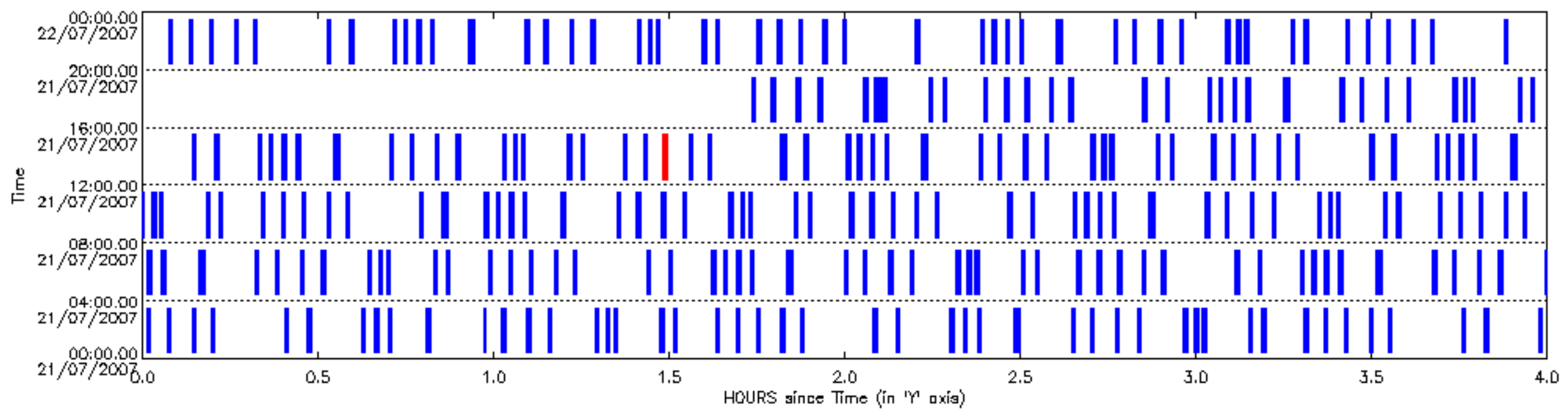
Lower curve: STD of SATU X axis

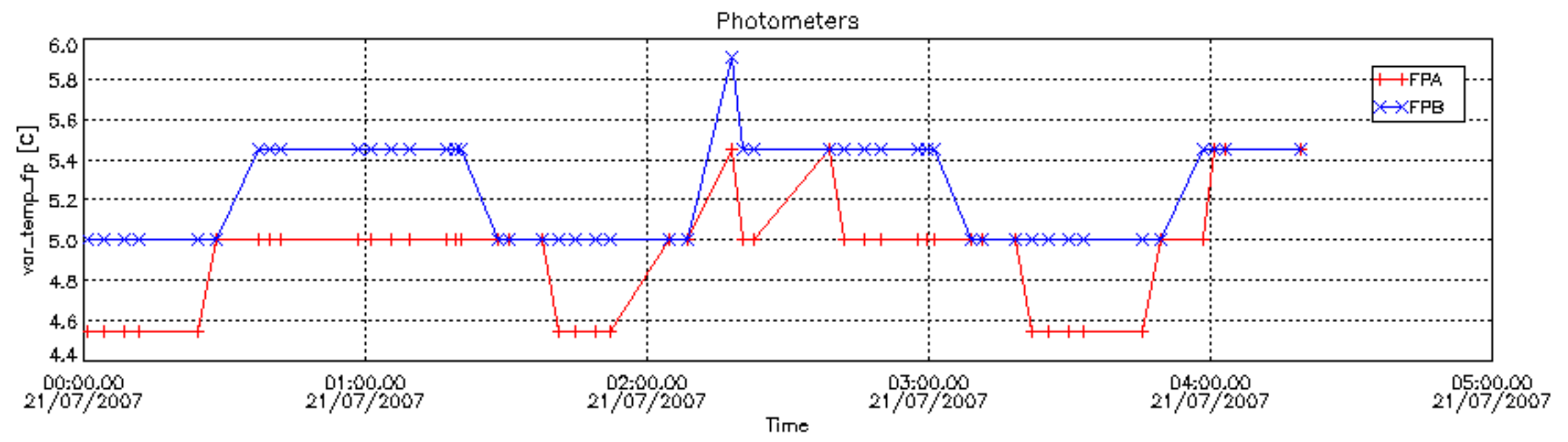
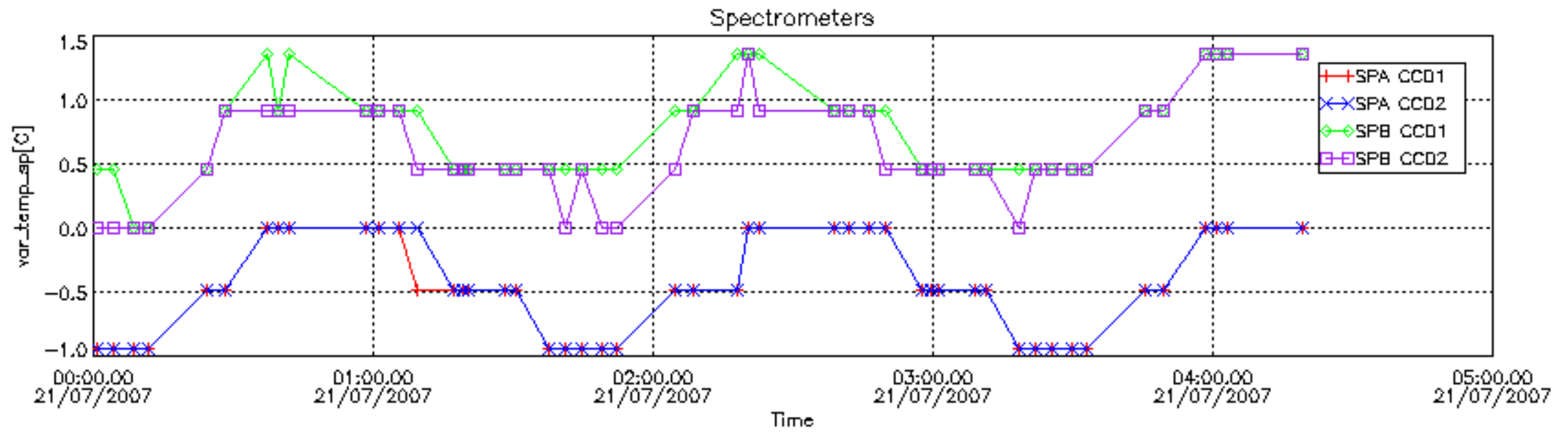


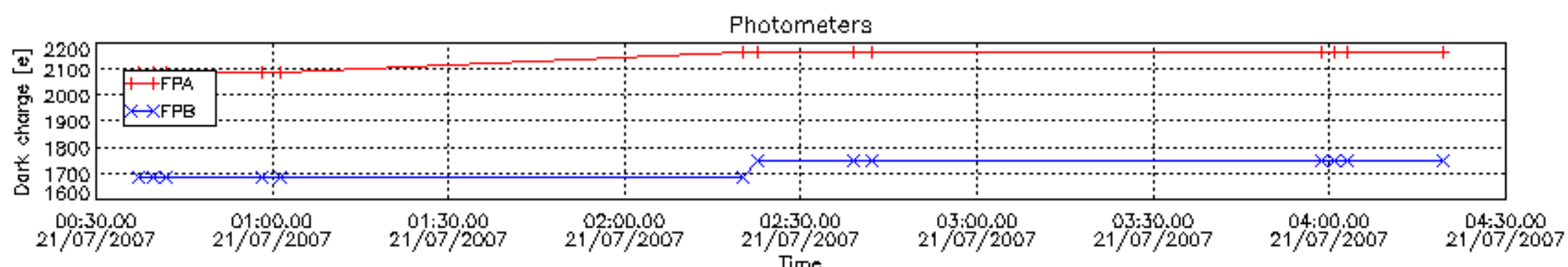
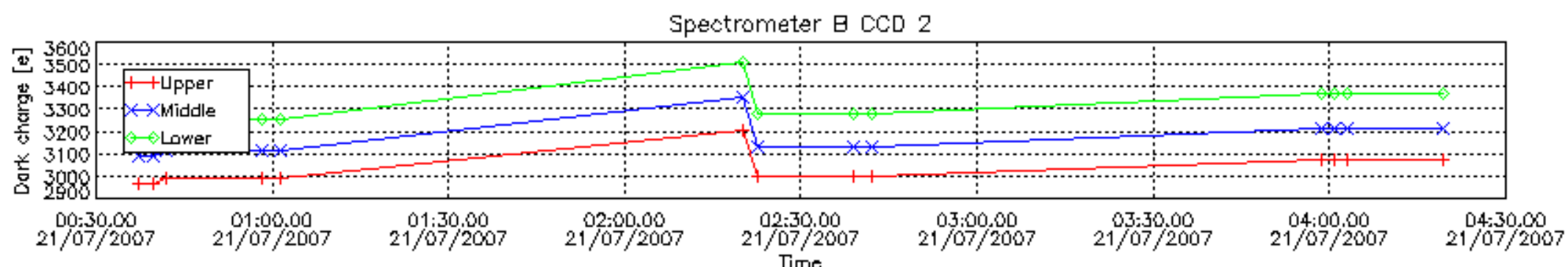
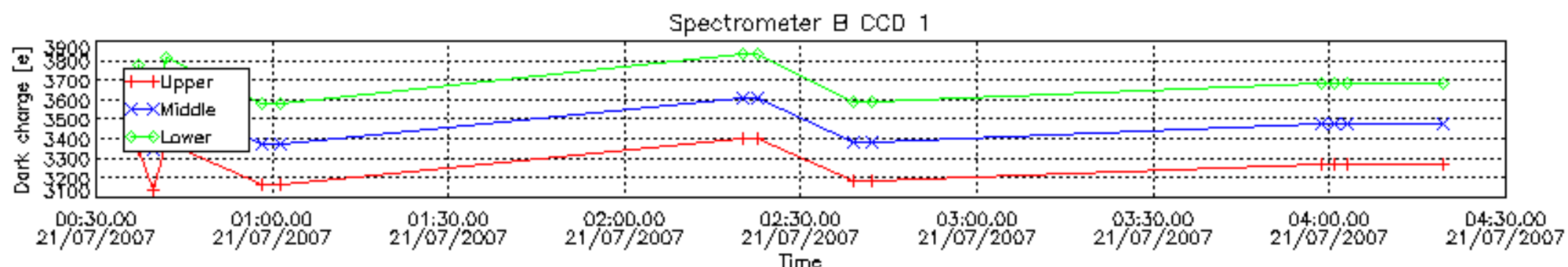
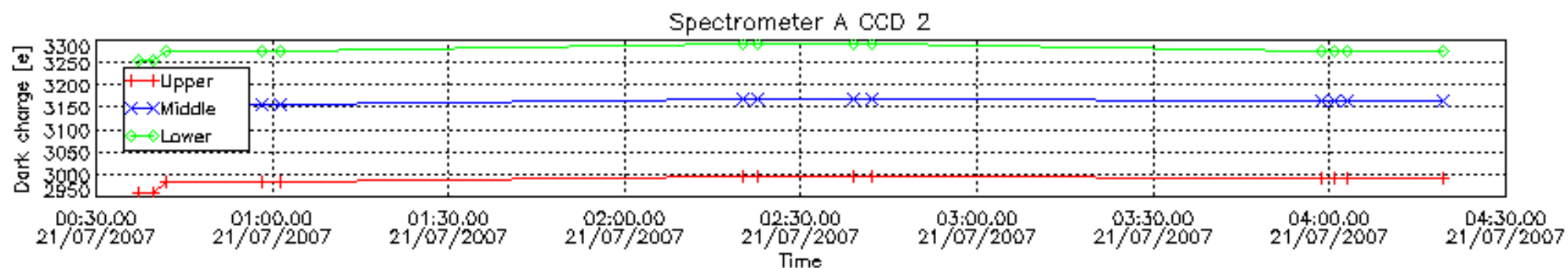
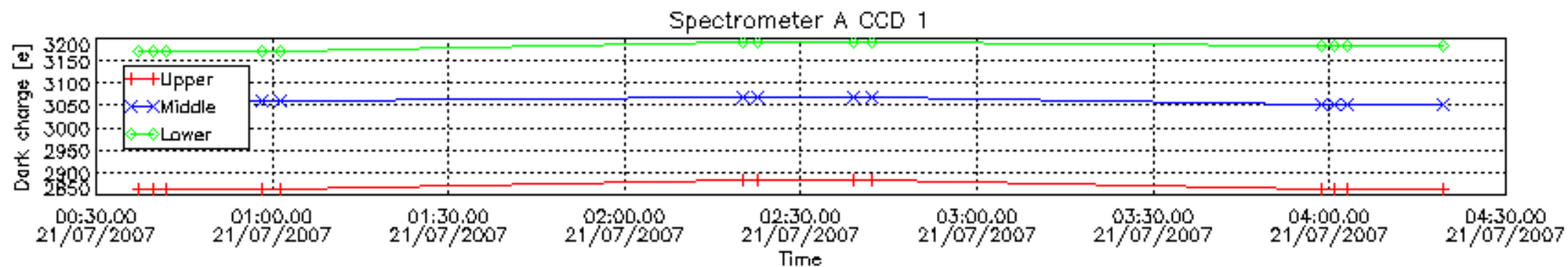
8. Auxiliary Data Files used for the production reported in section 2.4

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.

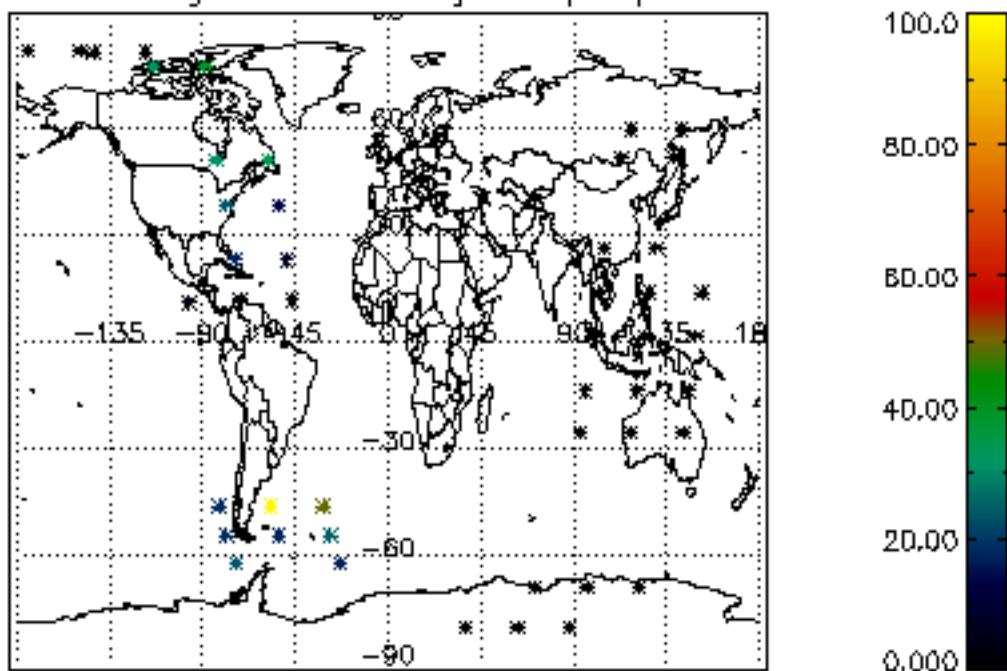
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LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	21-JUL-2007 00:00:43
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	21-JUL-2007 00:00:43
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	21-JUL-2007 00:00:43
ECMWF_FILE	AUX_ECF_AXNECM20070720_062112_20070720_210000_20070721_090000	1	21-JUL-2007 00:00:43
ECMWF_FILE	AUX_ECF_AXNECM20070720_181112_20070721_030000_20070721_150000	43	21-JUL-2007 03:45:26
OPTIONAL_ECMWF_FILE	MISSING	1	21-JUL-2007 00:00:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070720_211815_000057382060_00057_28167_3815.N1	1	21-JUL-2007 00:00:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070720_225912_000057382060_00058_28168_3816.N1	9	21-JUL-2007 00:41:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070721_004009_000054192060_00059_28169_3817.N1	26	21-JUL-2007 02:17:57
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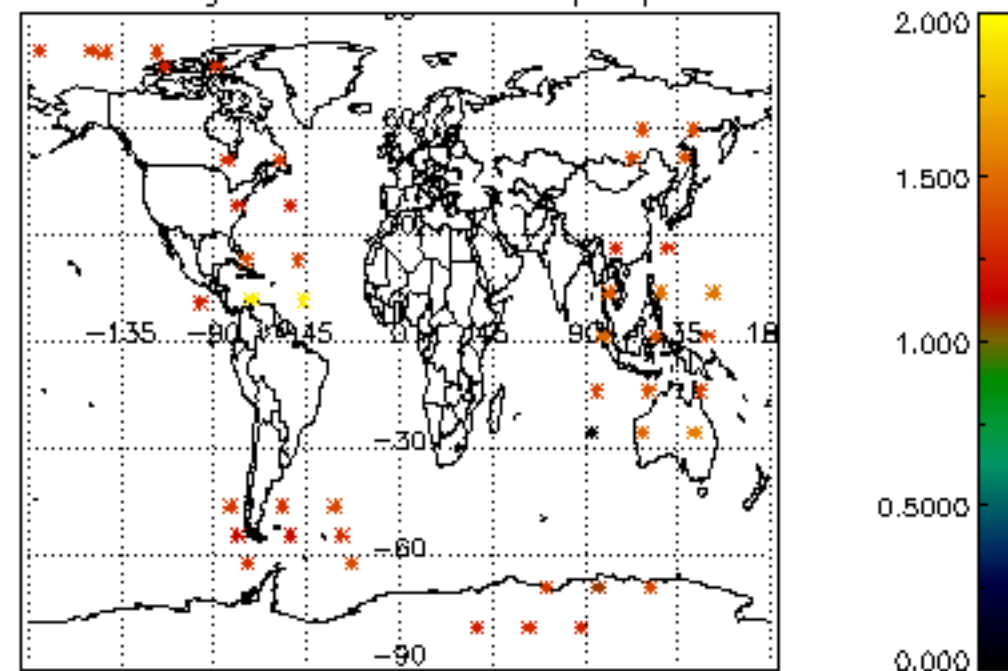




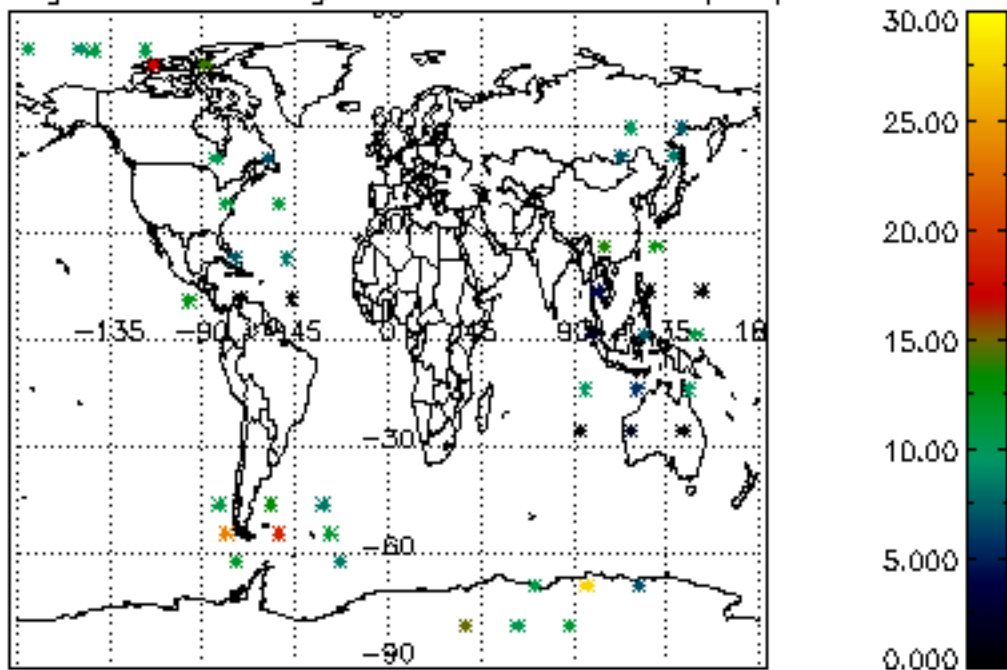
Percentage of cosmic ray hits per profile



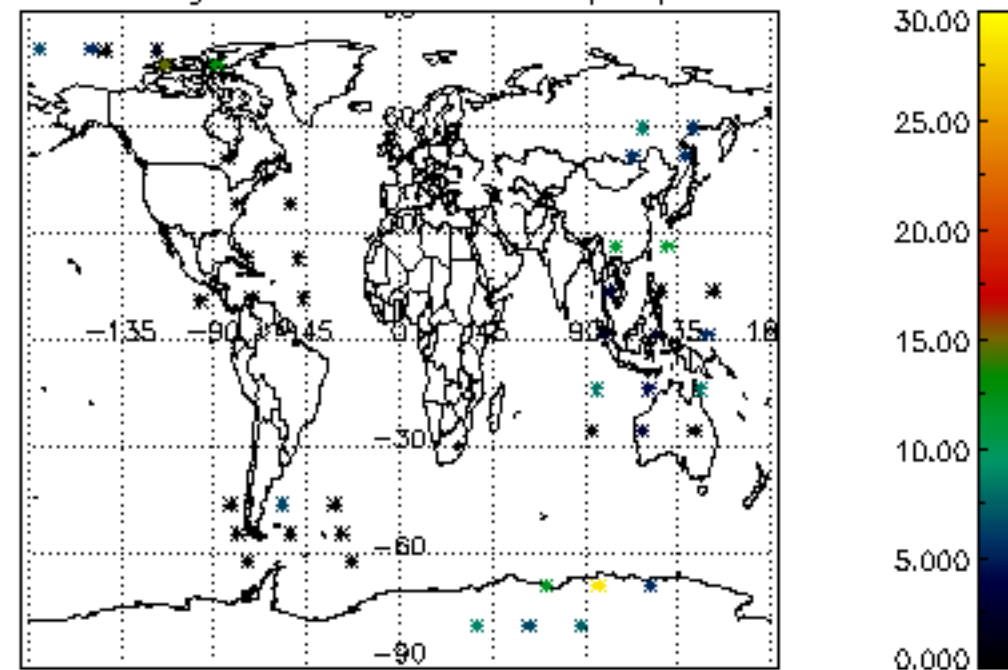
Percentage of datation errors per profile



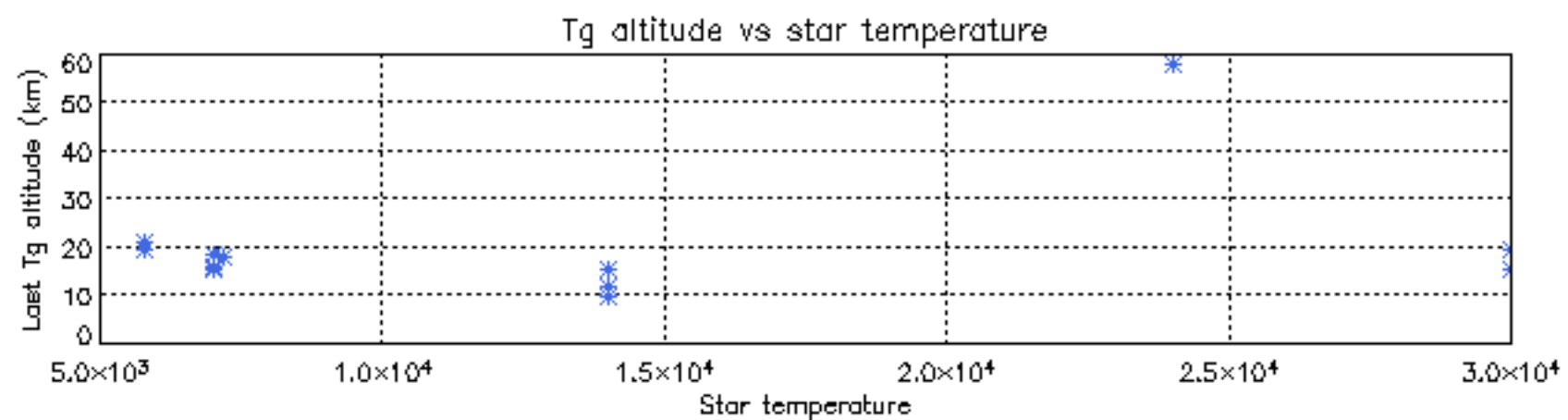
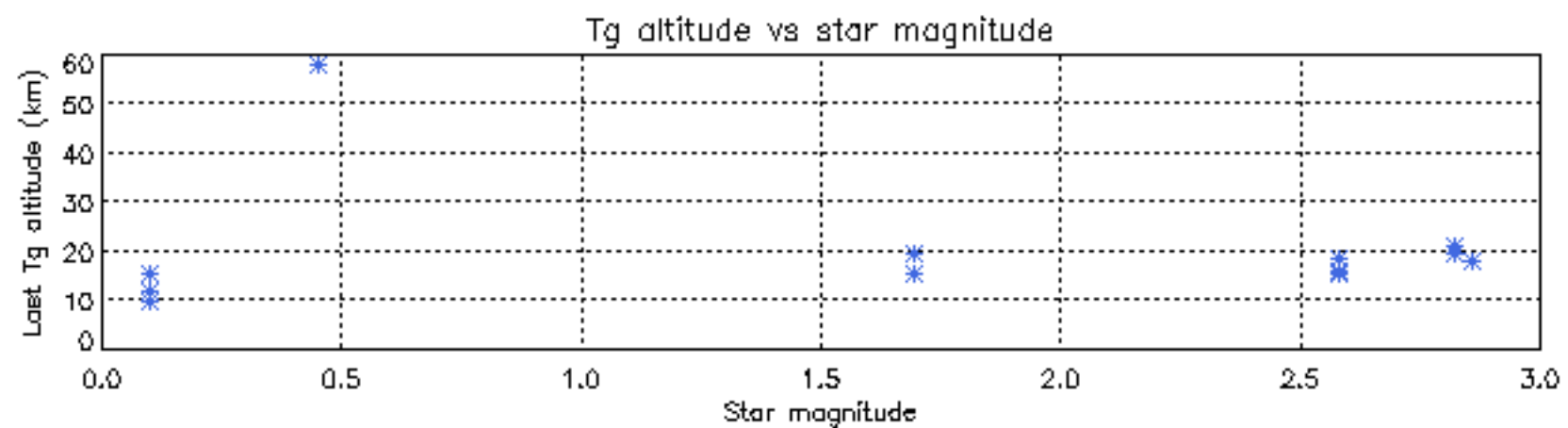
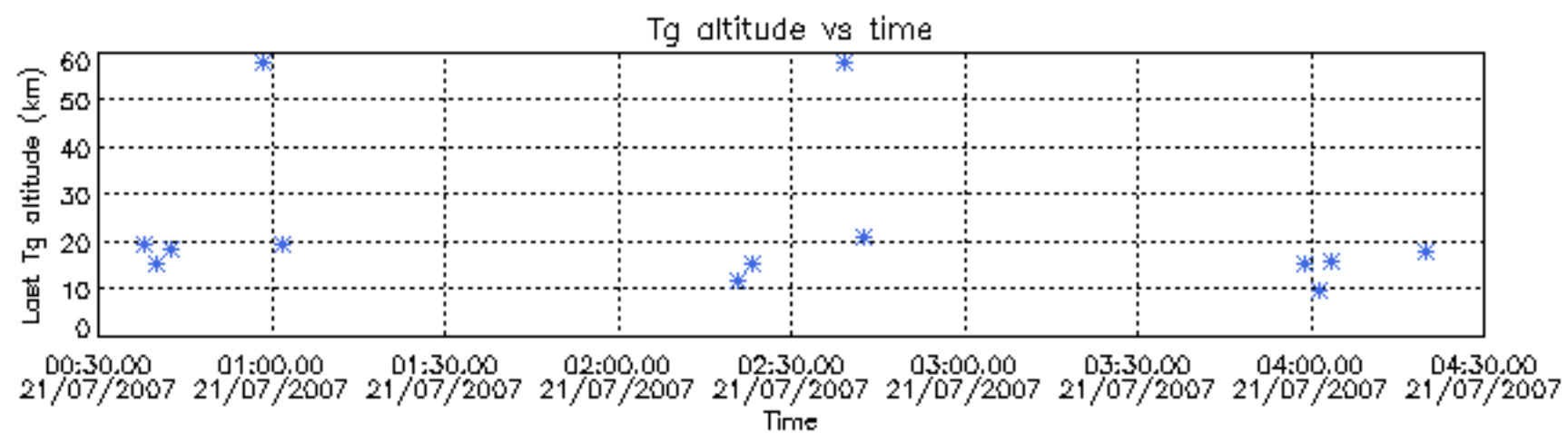
Percentage of star falling outside central band per profile



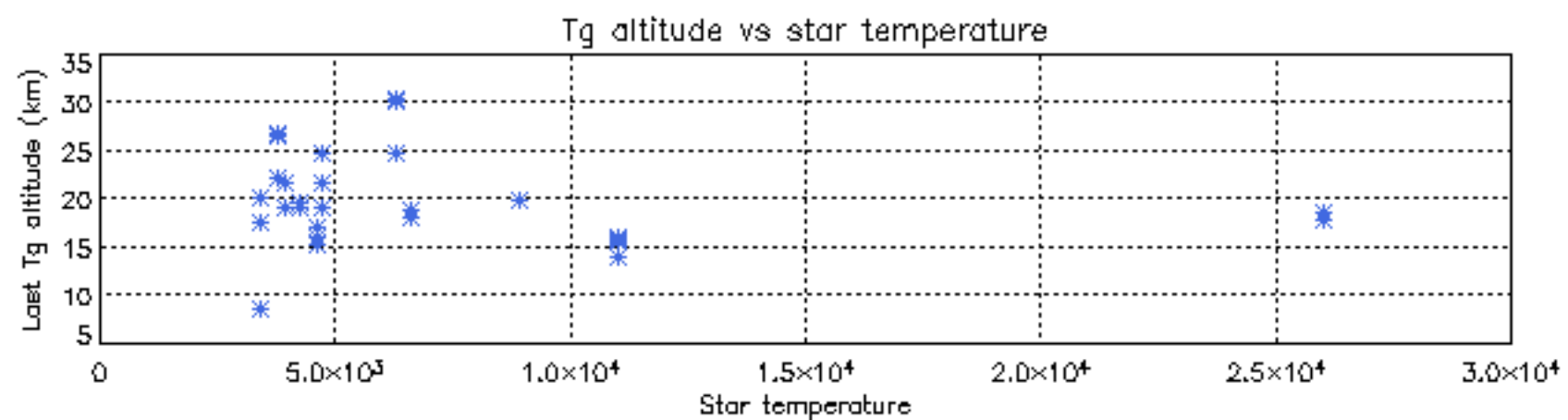
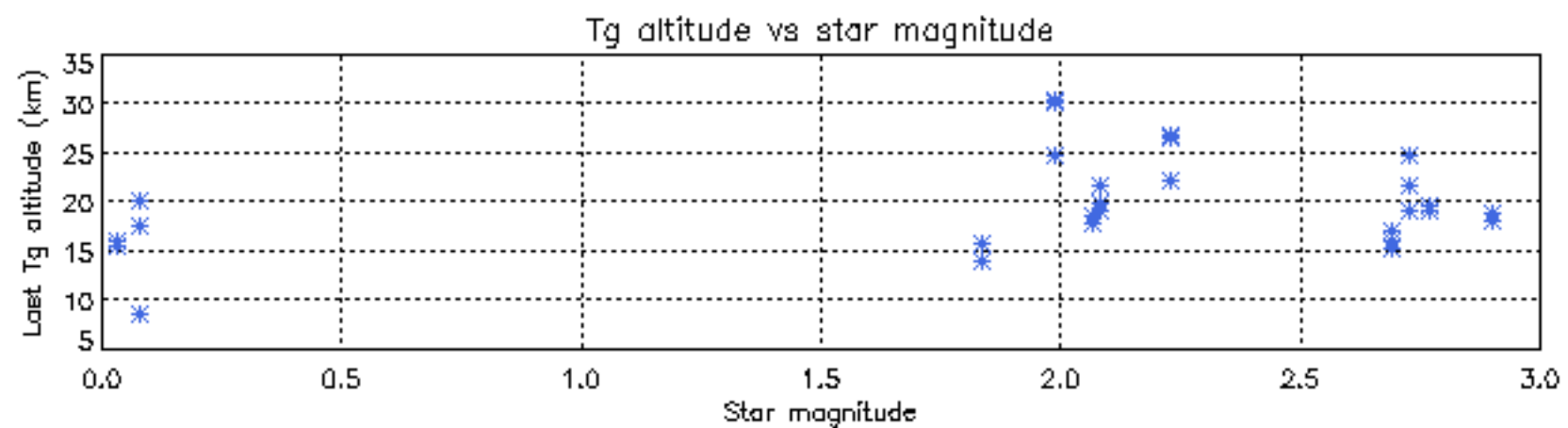
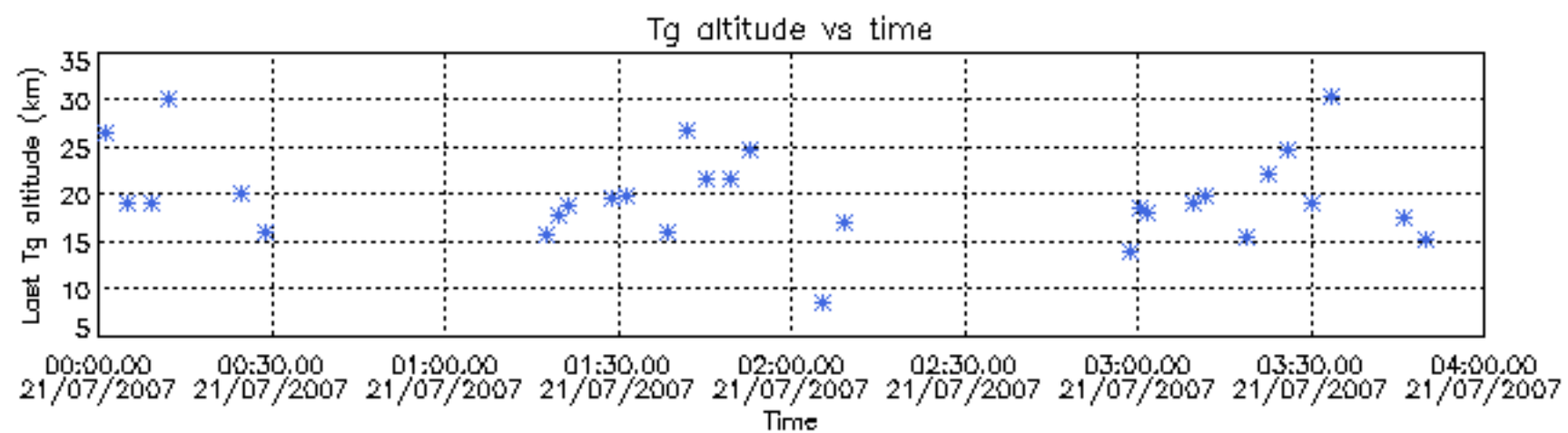
Percentage of saturation errors per profile

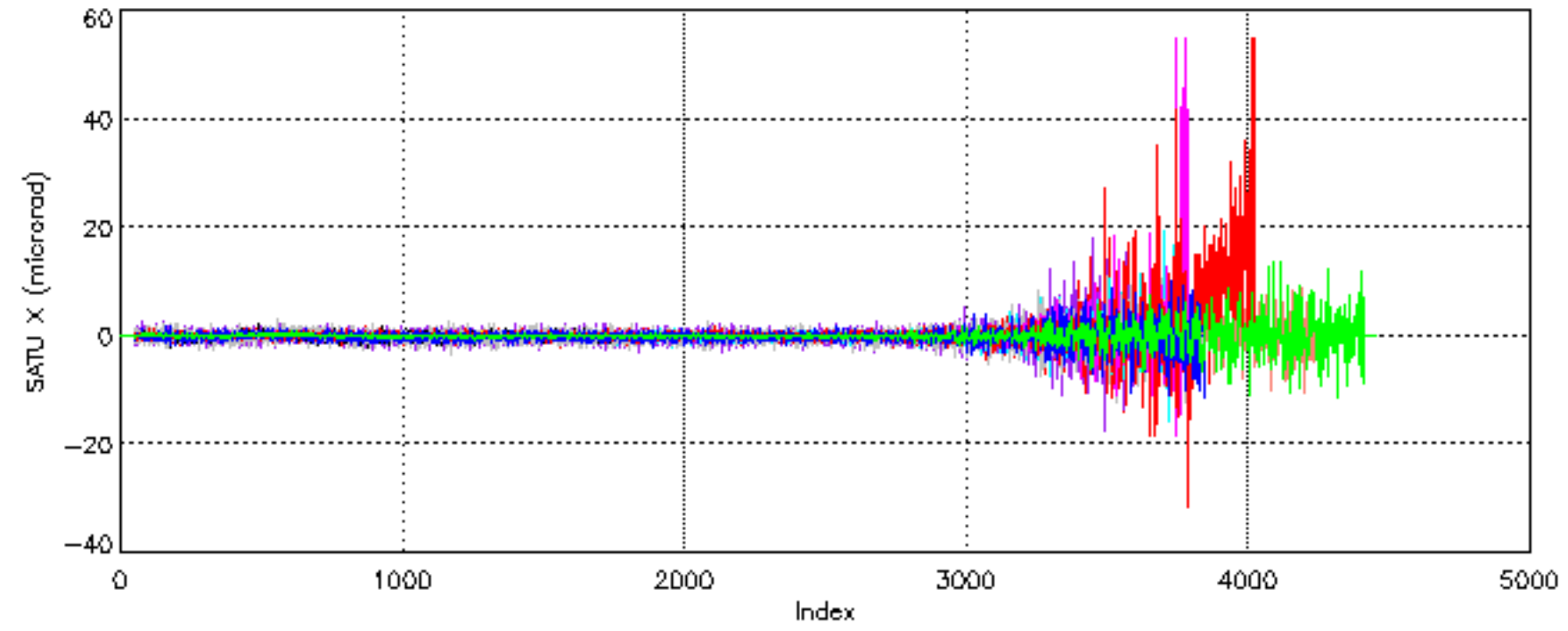


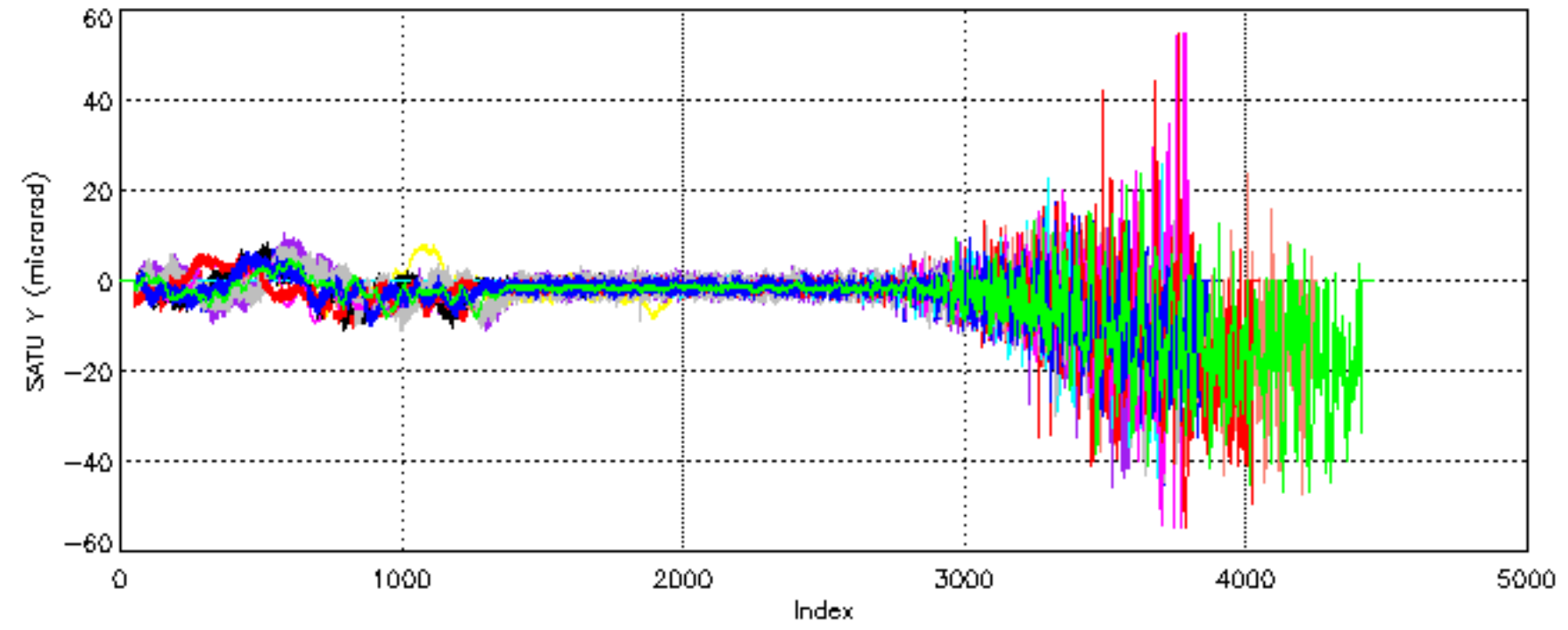
Tangent altitude at which the star is lost

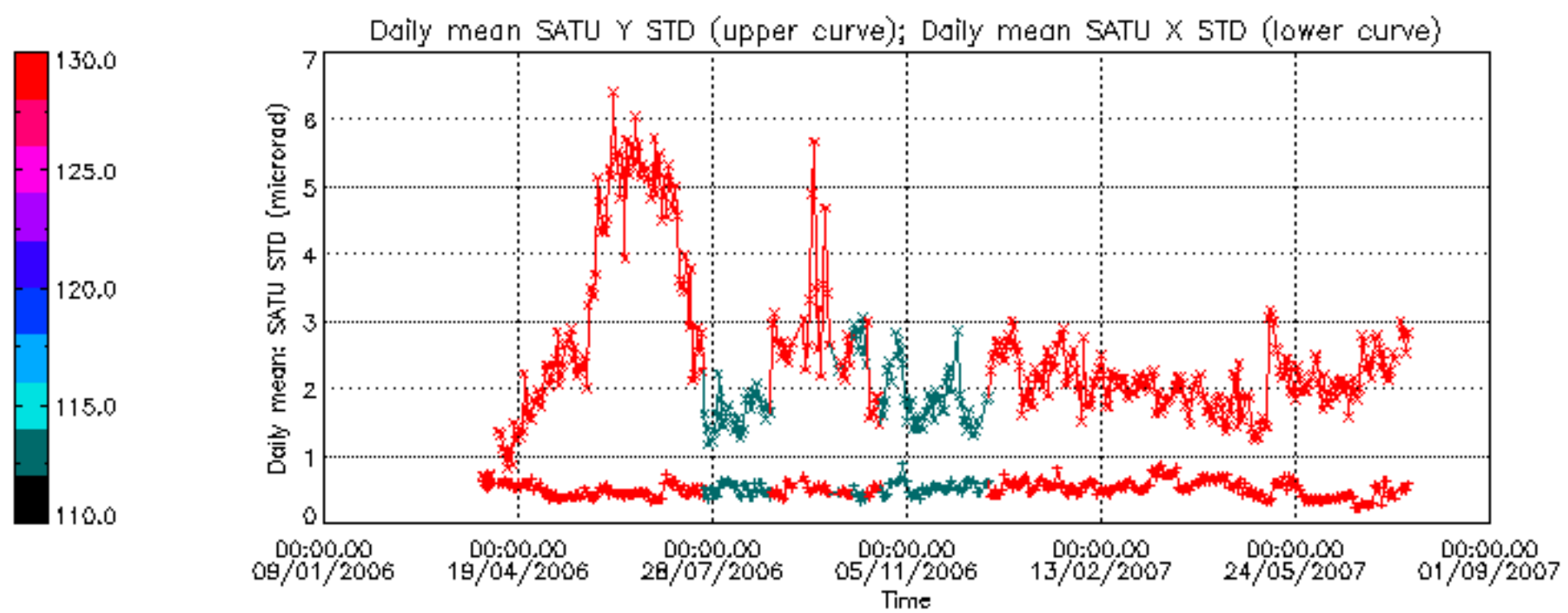


Tangent altitude at which the star is lost









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 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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