

GOMOS Daily Report 02-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	04JUL2007 05:36:54
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (02JUL2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (03JUL2007 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)

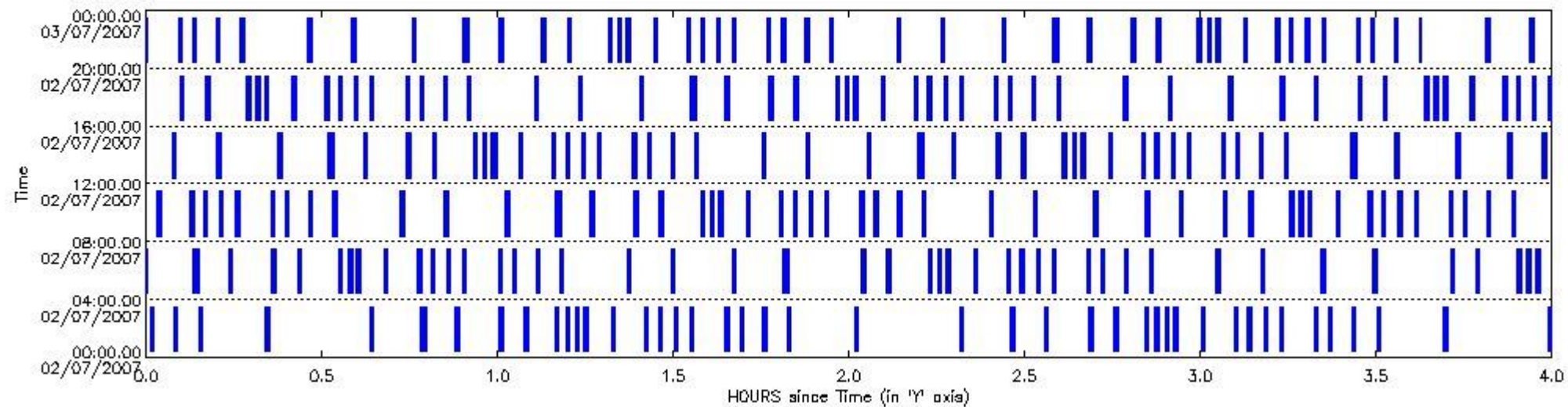
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

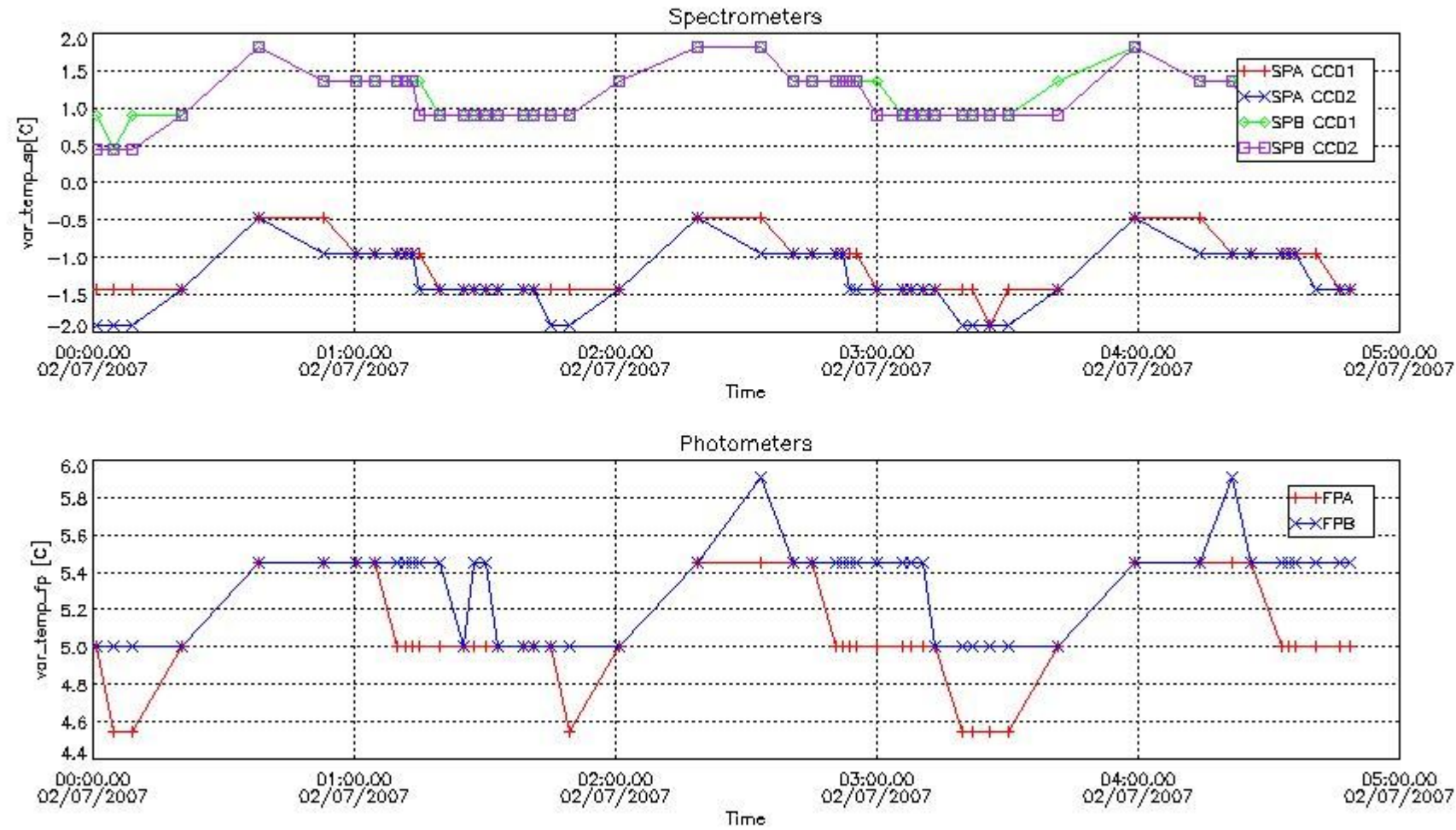
No missing products.

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_1PNPDE20070702_000041_000000362059_00288_27897_7930.N1	02-JUL-2007 00:00:41	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	27897	No
2	GOM_TRA_1PNPDE20070702_000441_000000362059_00288_27897_7931.N1	02-JUL-2007 00:04:41	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	27897	No
3	GOM_TRA_1PNPDE20070702_000854_000000332059_00288_27897_7932.N1	02-JUL-2007 00:08:54	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	27897	No
4	GOM_TRA_1PNPDE20070702_002019_000000372059_00288_27897_7933.N1	02-JUL-2007 00:20:19	Bright	37.000	35	33Alp Per	1.7950	6250.0	74	27897	No
5	GOM_TRA_1PNPDE20070702_003812_000000372059_00288_27897_7934.N1	02-JUL-2007 00:38:12	Dark	37.000	165	34Gam Eri	2.9500	3200.0	74	27897	No
6	GOM_TRA_1PNPDE20070702_005245_000000442059_00289_27898_8076.N1	02-JUL-2007 00:52:45	Dark	43.500	9	Alp Eri	0.45300	24000.	87	27898	No
7	GOM_TRA_1PNPDE20070702_010013_000000422059_00289_27898_8077.N1	02-JUL-2007 01:00:13	Straylight	41.500	148	Alp Tuc	2.8780	4100.0	83	27898	No
8	GOM_TRA_1PNPDE20070702_010434_000000442059_00289_27898_8078.N1	02-JUL-2007 01:04:34	Straylight	43.500	45	Alp Pav	1.9400	26000.	87	27898	No
9	GOM_TRA_1PNPDE20070702_010949_000000382059_00289_27898_8079.N1	02-JUL-2007 01:09:49	Twilight_stray	37.500	147	Alp Ara	2.8770	26000.	75	27898	No
10	GOM_TRA_1PNPDE20070702_011137_000000412059_00289_27898_8080.N1	02-JUL-2007 01:11:37	Twilight_stray	41.000	40	The Sco	1.8590	7100.0	82	27898	No
11	GOM_TRA_1PNPDE20070702_011317_000000382059_00289_27898_8081.N1	02-JUL-2007 01:13:17	Twilight_stray	37.500	25	35Lam Sco	1.6200	28000.	75	27898	No
12	GOM_TRA_1PNPDE20070702_011442_000000472059_00289_27898_8082.N1	02-JUL-2007 01:14:42	Bright	47.000	116	19Del Sgr	2.7000	4100.0	94	27898	No

13	GOM_TRA_1PNPDE20070702_011928_000000372059_00289_27898_8083.N1	02-JUL-2007 01:19:28	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	27898	No
14	GOM_TRA_1PNPDE20070702_012506_000000362059_00289_27898_8084.N1	02-JUL-2007 01:25:06	Bright	36.000	126	60Bet Oph	2.7700	4250.0	72	27898	No
15	GOM_TRA_1PNPDE20070702_012726_000000382059_00289_27898_8085.N1	02-JUL-2007 01:27:26	Bright	38.000	59	55Alp Oph	2.0800	8900.0	76	27898	No
16	GOM_TRA_1PNPDE20070702_013009_000000352059_00289_27898_8086.N1	02-JUL-2007 01:30:09	Bright	34.500	127	27Bet Her	2.7810	4700.0	69	27898	No
17	GOM_TRA_1PNPDE20070702_013253_000000352059_00289_27898_8087.N1	02-JUL-2007 01:32:53	Bright	35.000	133	40Zet Her	2.8070	6000.0	70	27898	No
18	GOM_TRA_1PNPDE20070702_013852_000000352059_00289_27898_8088.N1	02-JUL-2007 01:38:52	Bright	35.000	130	23Bet Dra	2.7990	5800.0	70	27898	No
19	GOM_TRA_1PNPDE20070702_014117_000000372059_00289_27898_8089.N1	02-JUL-2007 01:41:17	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	27898	No
20	GOM_TRA_1PNPDE20070702_014517_000000372059_00289_27898_8090.N1	02-JUL-2007 01:45:17	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	27898	No
21	GOM_TRA_1PNPDE20070702_014930_000000352059_00289_27898_8091.N1	02-JUL-2007 01:49:30	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	27898	No
22	GOM_TRA_1PNPDE20070702_020055_000000432059_00289_27898_8092.N1	02-JUL-2007 02:00:55	Bright	43.000	35	33Alp Per	1.7950	6250.0	86	27898	No
23	GOM_TRA_1PNPDE20070702_021848_000000402059_00289_27898_8196.N1	02-JUL-2007 02:18:48	Dark	39.500	165	34Gam Eri	2.9500	3200.0	79	27898	No
24	GOM_TRA_1PNPDE20070702_023321_000000432059_00290_27899_8197.N1	02-JUL-2007 02:33:21	Dark	42.500	9	Alp Eri	0.45300	24000.	85	27899	No
25	GOM_TRA_1PNPDE20070702_024049_000000452059_00290_27899_8198.N1	02-JUL-2007 02:40:49	Straylight	45.000	148	Alp Tuc	2.8780	4100.0	90	27899	No
26	GOM_TRA_1PNPDE20070702_024510_000000432059_00290_27899_8199.N1	02-JUL-2007 02:45:10	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	27899	No
27	GOM_TRA_1PNPDE20070702_025025_000000362059_00290_27899_8200.N1	02-JUL-2007 02:50:25	Twilight_and_stray	36.000	147	Alp Ara	2.8770	26000.	72	27899	No
28	GOM_TRA_1PNPDE20070702_025213_000000412059_00290_27899_8201.N1	02-JUL-2007 02:52:13	Twilight_and_stray	41.000	40	The Sco	1.8590	7100.0	82	27899	No
29	GOM_TRA_1PNPDE20070702_025353_000000402059_00290_27899_8202.N1	02-JUL-2007 02:53:53	Twilight_and_stray	40.000	25	35Lam Sco	1.6200	28000.	80	27899	No
30	GOM_TRA_1PNPDE20070702_025518_000000472059_00290_27899_8203.N1	02-JUL-2007 02:55:18	Bright	47.000	116	19Del Sgr	2.7000	4100.0	94	27899	No
31	GOM_TRA_1PNPDE20070702_030005_000000372059_00290_27899_8204.N1	02-JUL-2007 03:00:05	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	27899	No
32	GOM_TRA_1PNPDE20070702_030542_000000372059_00290_27899_8205.N1	02-JUL-2007 03:05:42	Bright	36.500	126	60Bet Oph	2.7700	4250.0	73	27899	No
33	GOM_TRA_1PNPDE20070702_030802_000000382059_00290_27899_8206.N1	02-JUL-2007 03:08:02	Bright	37.500	59	55Alp Oph	2.0800	8900.0	75	27899	No
34	GOM_TRA_1PNPDE20070702_031045_000000372059_00290_27899_8207.N1	02-JUL-2007 03:10:45	Bright	37.000	127	27Bet Her	2.7810	4700.0	74	27899	No
35	GOM_TRA_1PNPDE20070702_031329_000000362059_00290_27899_8208.N1	02-JUL-2007 03:13:29	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	27899	No
36	GOM_TRA_1PNPDE20070702_031928_000000352059_00290_27899_8209.N1	02-JUL-2007 03:19:28	Bright	35.000	130	23Bet Dra	2.7990	5800.0	70	27899	No
37	GOM_TRA_1PNPDE20070702_032153_000000332059_00290_27899_8210.N1	02-JUL-2007 03:21:53	Bright	33.000	119	14Eta Dra	2.7270	4700.0	66	27899	No
38	GOM_TRA_1PNPDE20070702_032553_000000332059_00290_27899_8211.N1	02-JUL-2007 03:25:53	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	27899	No
39	GOM_TRA_1PNPDE20070702_033006_000000352059_00290_27899_8212.N1	02-JUL-2007 03:30:06	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	27899	No
40	GOM_TRA_1PNPDE20070702_034131_000000432059_00290_27899_8363.N1	02-JUL-2007 03:41:31	Bright	43.000	35	33Alp Per	1.7950	6250.0	86	27899	No
41	GOM_TRA_1PNPDE20070702_035924_000000422059_00290_27899_8364.N1	02-JUL-2007 03:59:24	Dark	41.500	165	34Gam Eri	2.9500	3200.0	83	27899	No
42	GOM_TRA_1PNPDE20070702_041358_000000432059_00291_27900_8365.N1	02-JUL-2007 04:13:58	Dark	42.500	9	Alp Eri	0.45300	24000.	85	27900	No
43	GOM_TRA_1PNPDE20070702_042126_000000402059_00291_27900_8366.N1	02-JUL-2007 04:21:26	Straylight	40.000	148	Alp Tuc	2.8780	4100.0	80	27900	No
44	GOM_TRA_1PNPDE20070702_042547_000000412059_00291_27900_8367.N1	02-JUL-2007 04:25:47	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	27900	No
45	GOM_TRA_1PNPDE20070702_043250_000000392059_00291_27900_8368.N1	02-JUL-2007 04:32:50	Twilight_and_stray	38.500	40	The Sco	1.8590	7100.0	77	27900	No
46	GOM_TRA_1PNPDE20070702_043429_000000422059_00291_27900_8369.N1	02-JUL-2007 04:34:29	Twilight_and_stray	42.000	25	35Lam Sco	1.6200	28000.	84	27900	No
47	GOM_TRA_1PNPDE20070702_043554_000000452059_00291_27900_8370.N1	02-JUL-2007 04:35:54	Bright	44.500	116	19Del Sgr	2.7000	4100.0	89	27900	No
48	GOM_TRA_1PNPDE20070702_044041_000000362059_00291_27900_8371.N1	02-JUL-2007 04:40:41	Bright	36.000	86	35Eta Oph	2.4300	10200.	72	27900	No
49	GOM_TRA_1PNPDE20070702_044618_000000372059_00291_27900_8372.N1	02-JUL-2007 04:46:18	Bright	37.000	126	60Bet Oph	2.7700	4250.0	74	27900	No
50	GOM_TRA_1PNPDE20070702_044838_000000382059_00291_27900_8373.N1	02-JUL-2007 04:48:38	Bright	38.000	59	55Alp Oph	2.0800	8900.0	76	27900	No

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



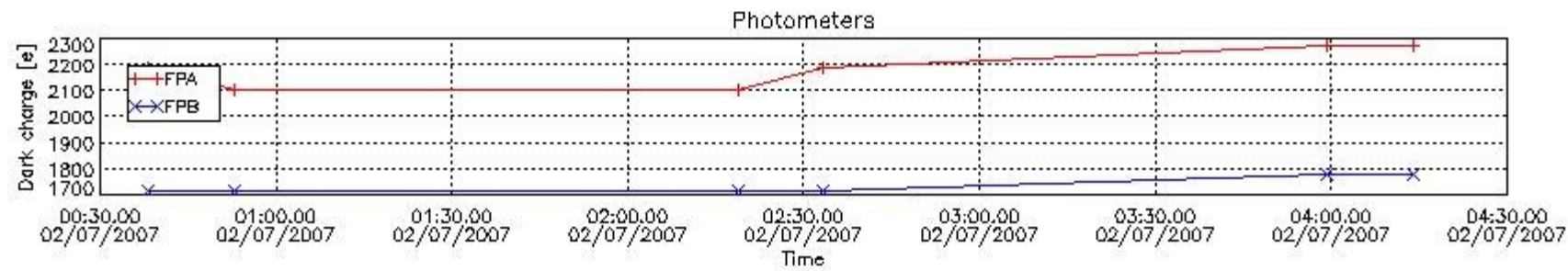
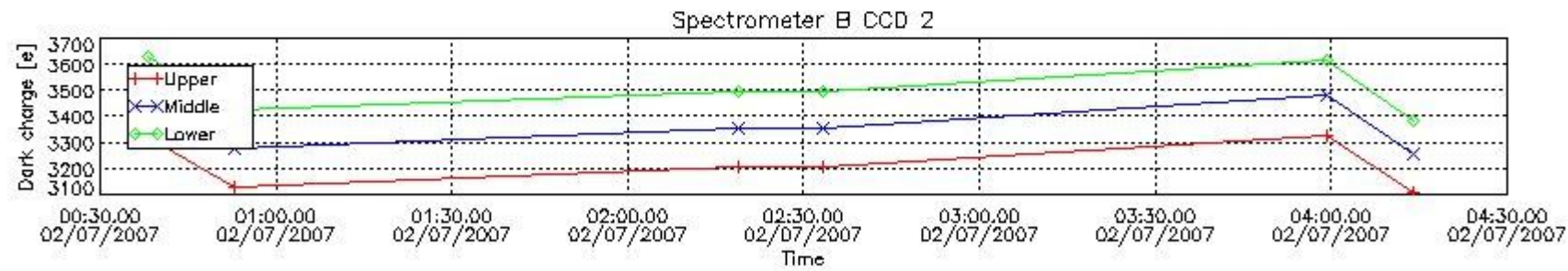
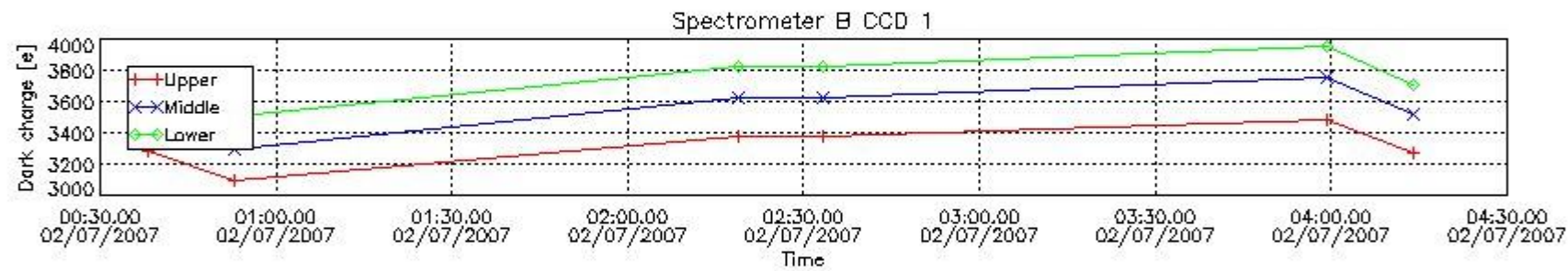
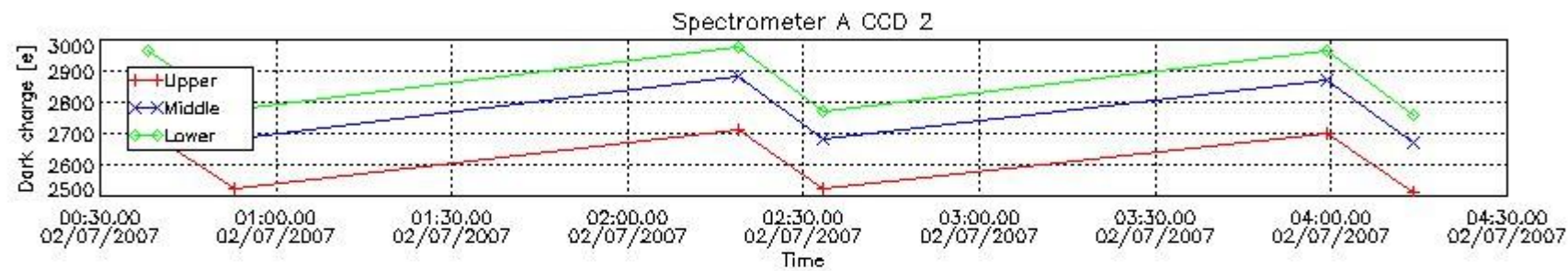
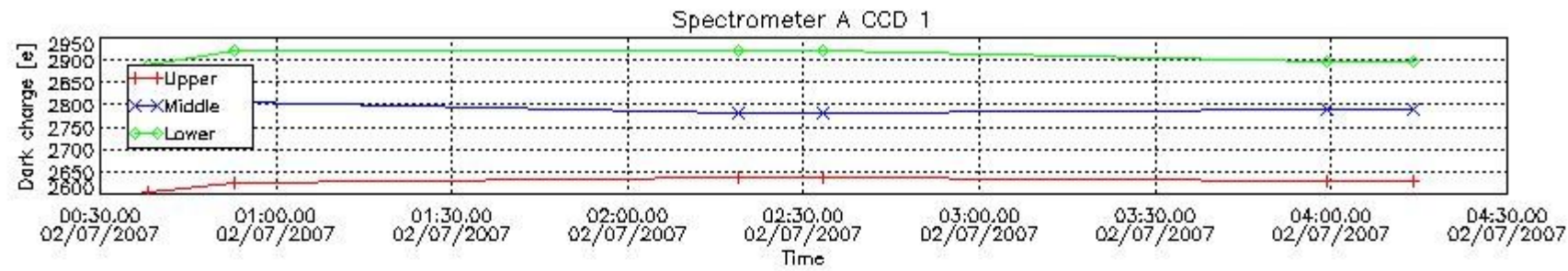
4. Overview of dark signal processing per product

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



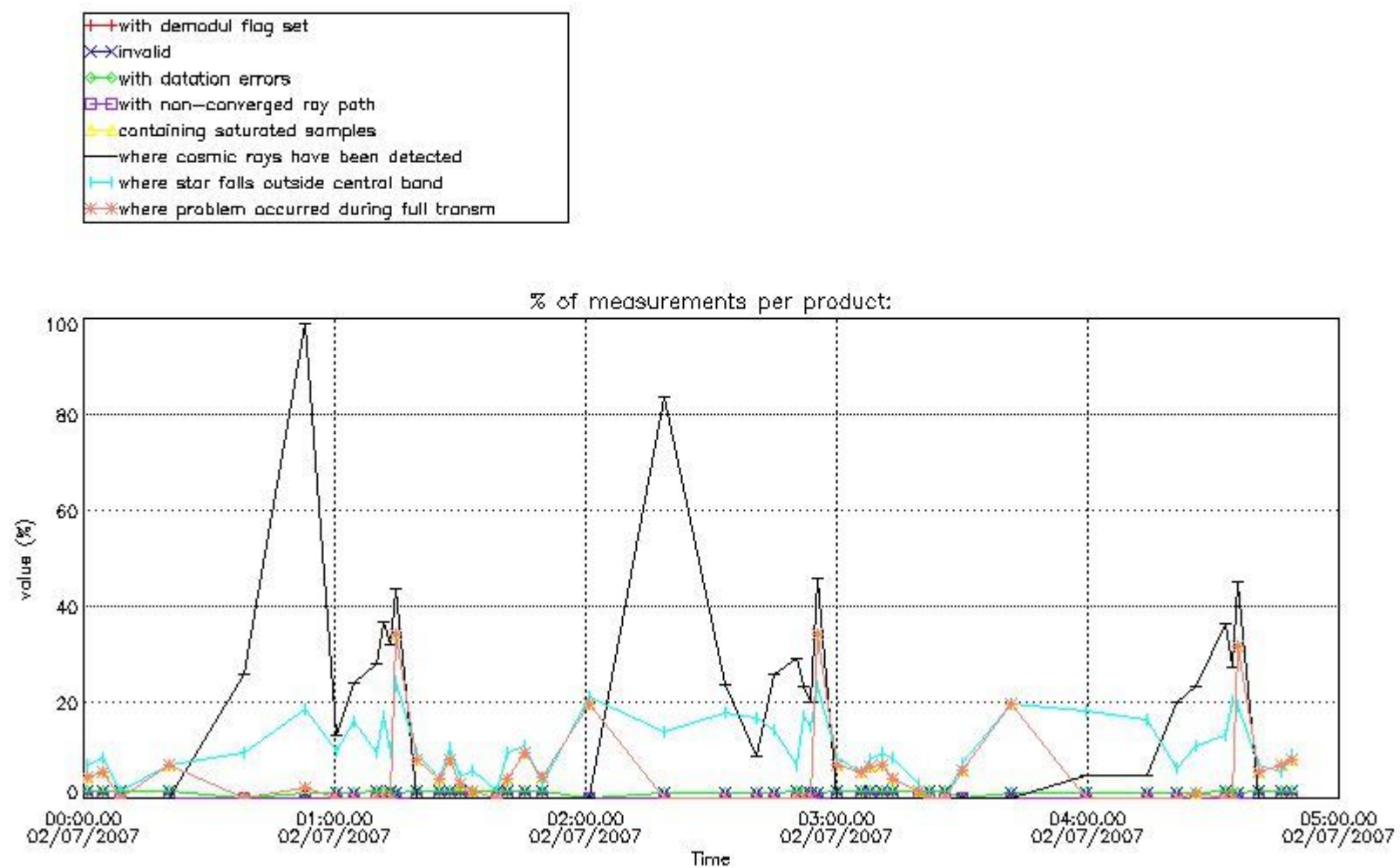
5. Demodulation flag and quality information monitoring

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.

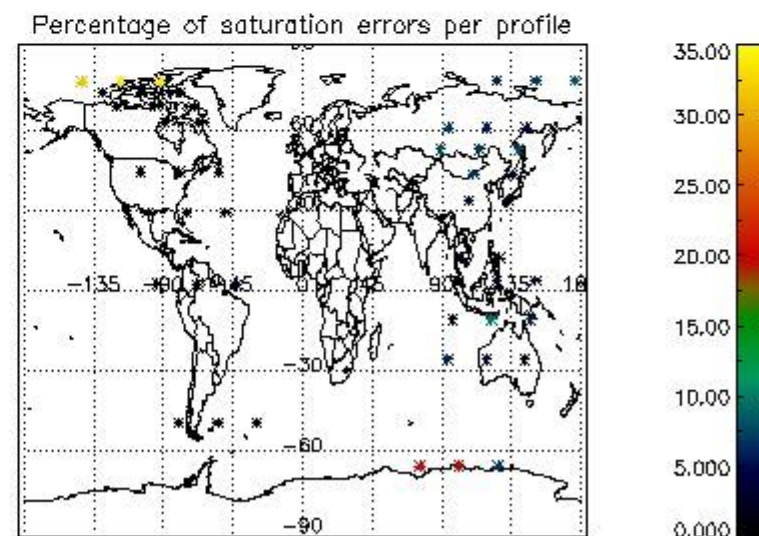
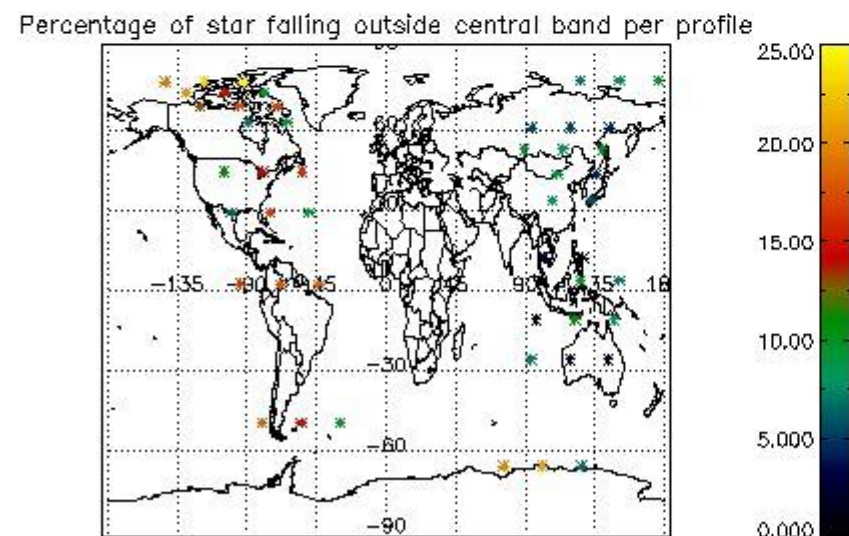
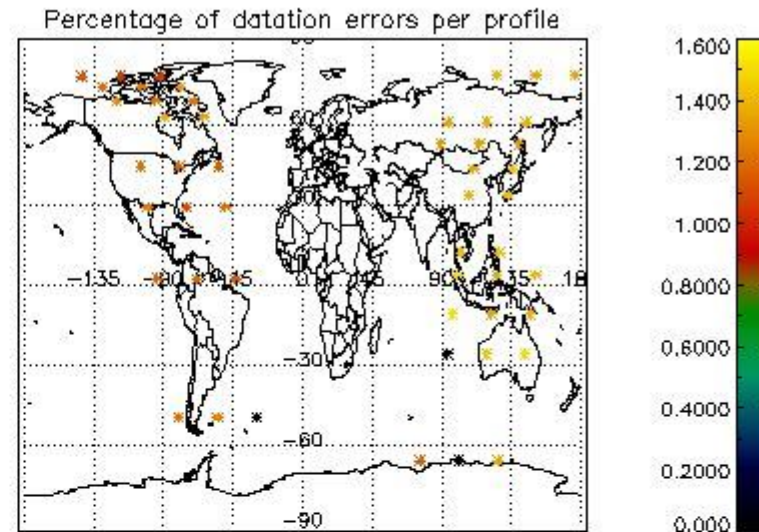
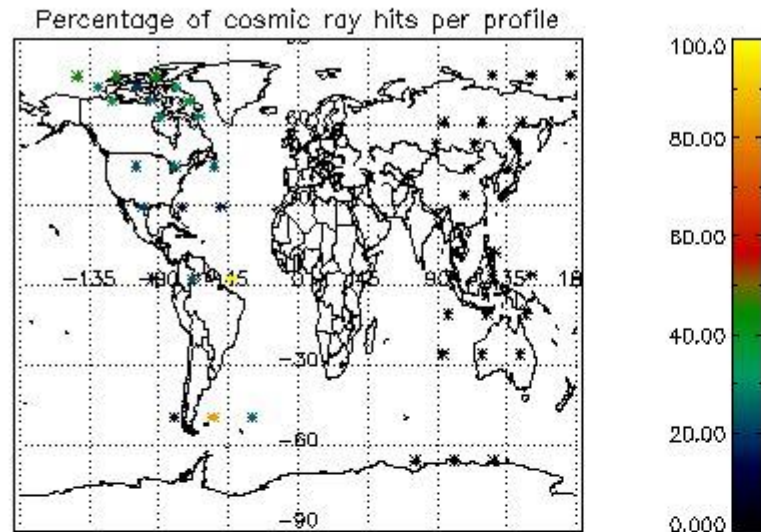
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	12.0000 %
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)



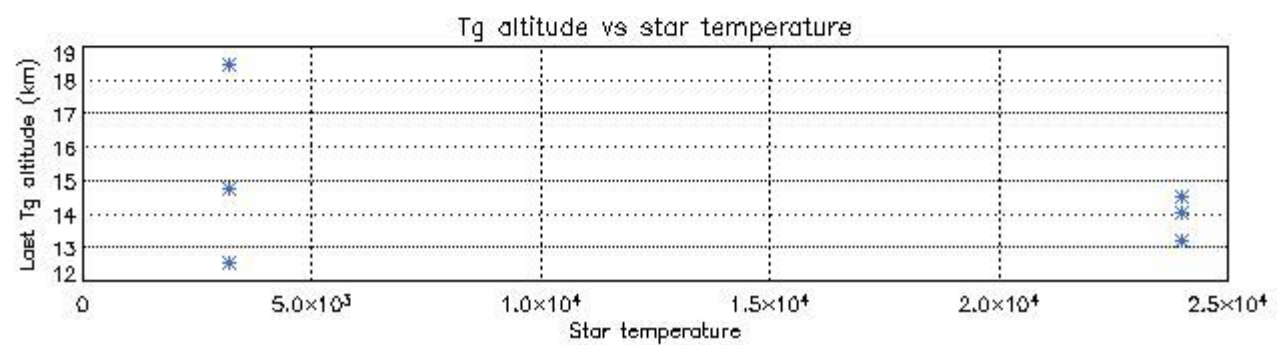
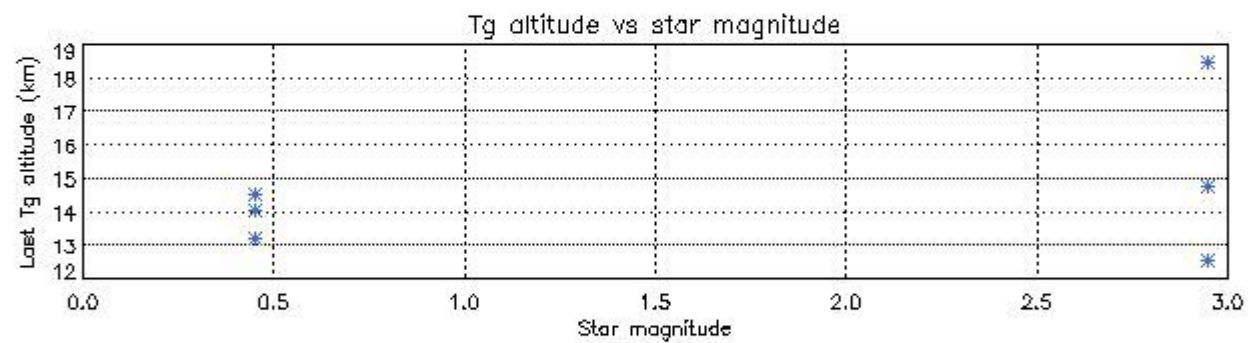
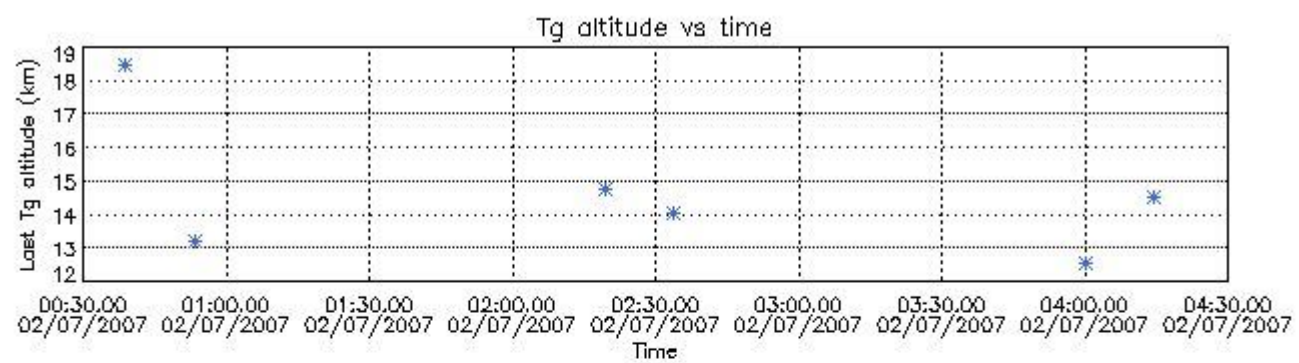
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.587	19.912	NaN
St. deviation:	2.0665	4.4982	NaN
Maximum:	18.446	27.448	NaN
Minimum:	12.534	10.295	NaN
Number of data:	6.0000	30.000	NaN

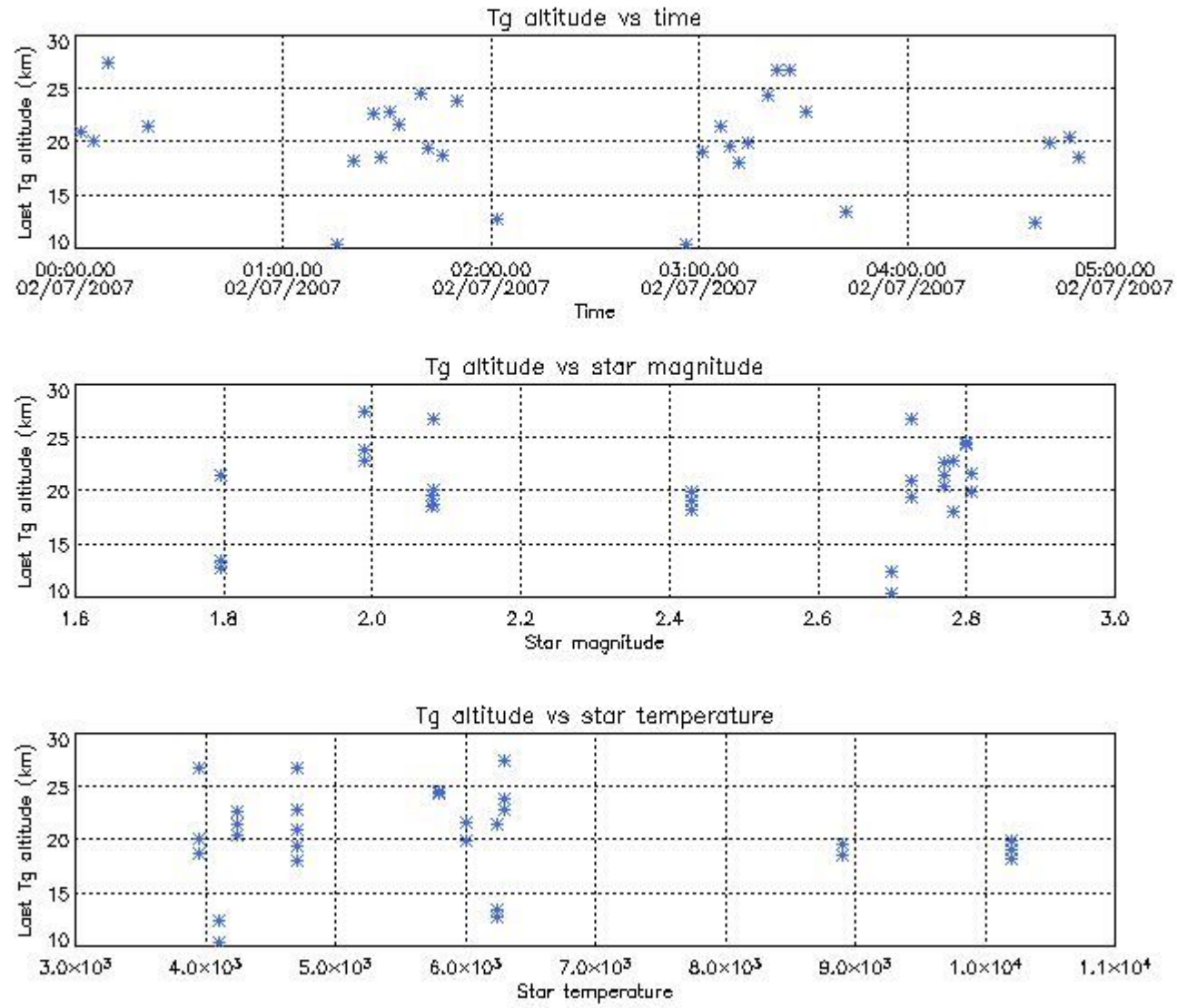
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

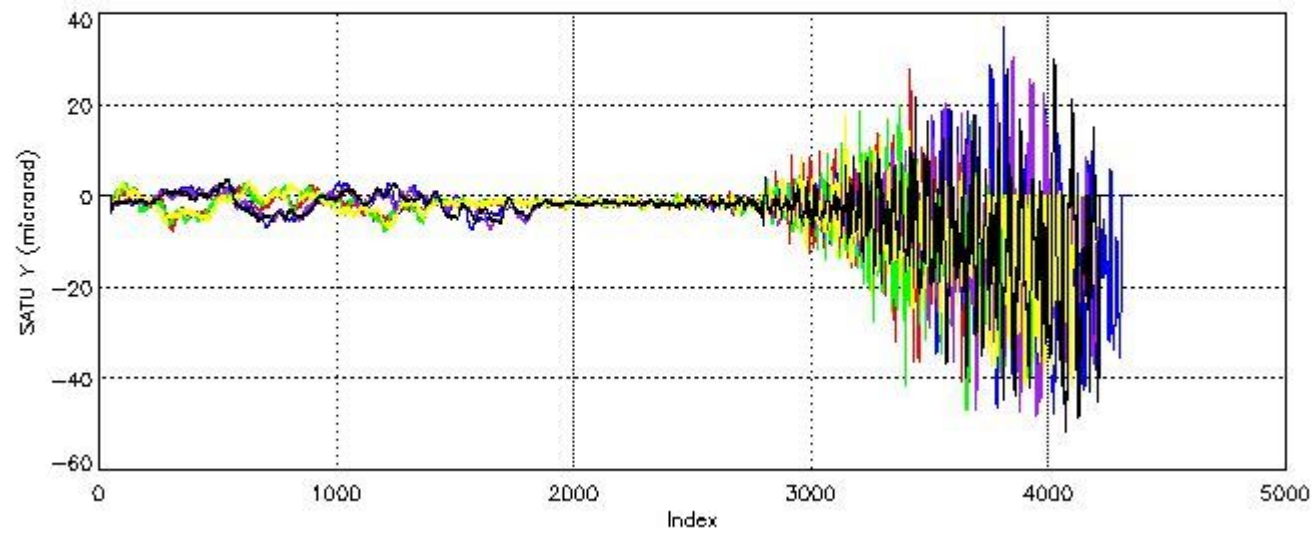
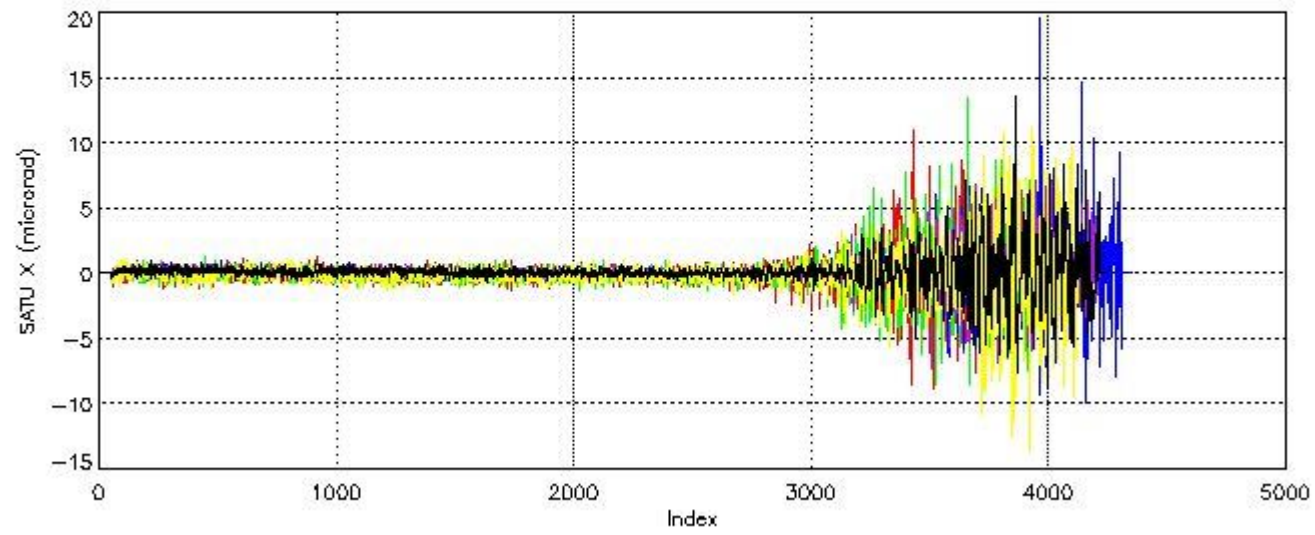


7. Star Acquisition and Tracking Unit (SATU)

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:	0.054786	-1.3535	0.11118	-1.2373
St. deviation:	0.28094	2.1547	0.62626	2.2419
Maximum:	1.2000	3.7000	3.9000	5.9000
Minimum:	-1.2000	-7.6000	-3.5000	-8.9000

Number of data:	5250.0	5250.0	24650.	24650.
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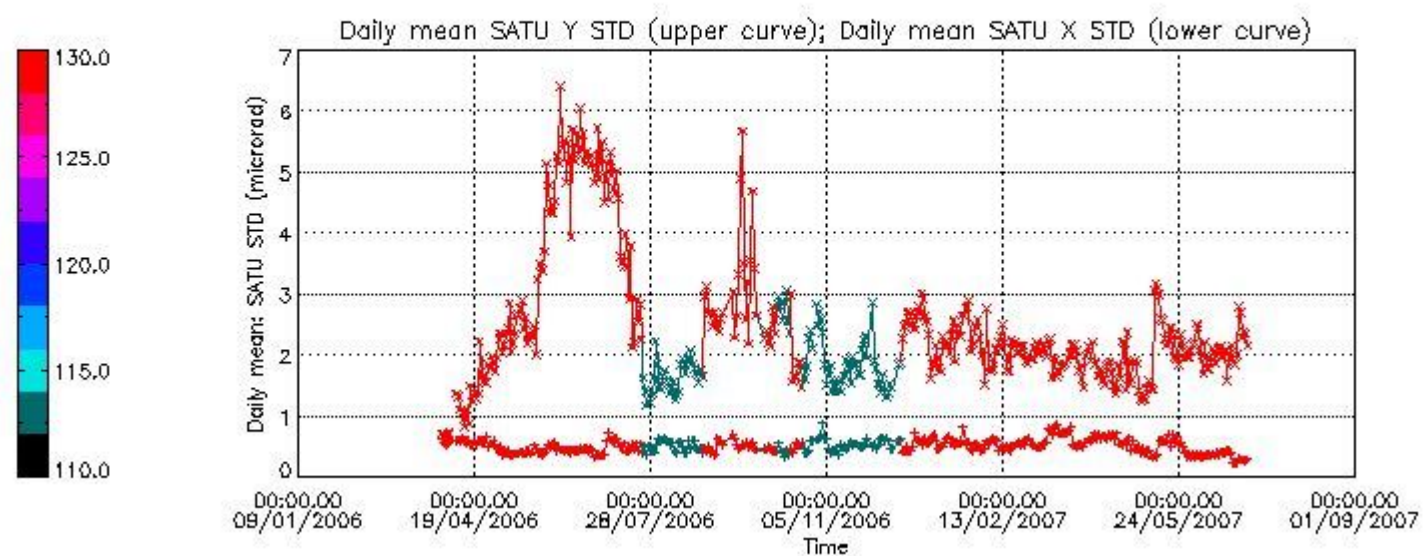
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

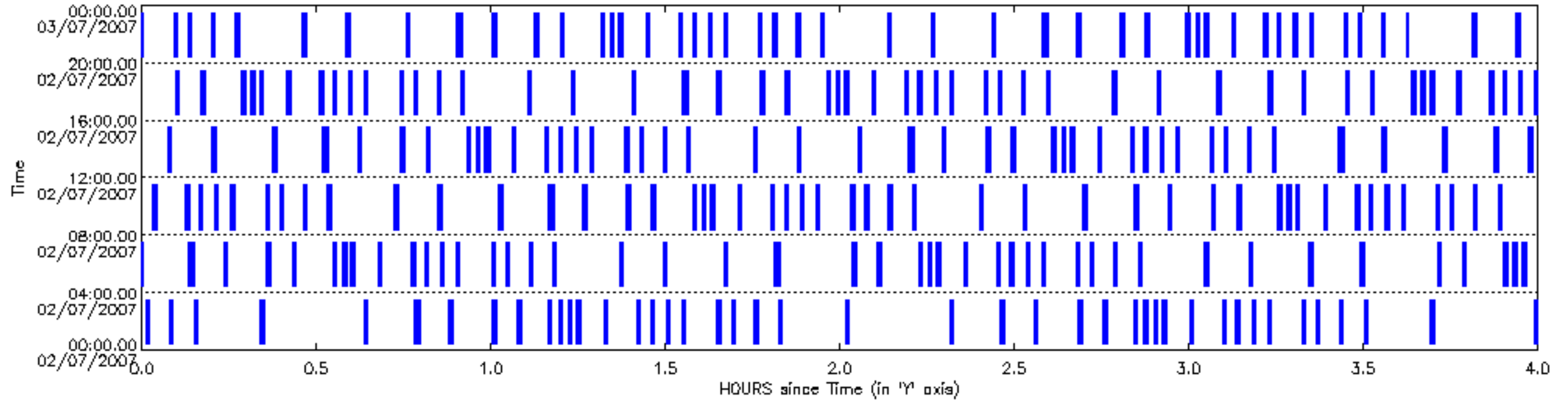
Lower curve: STD of SATU X axis

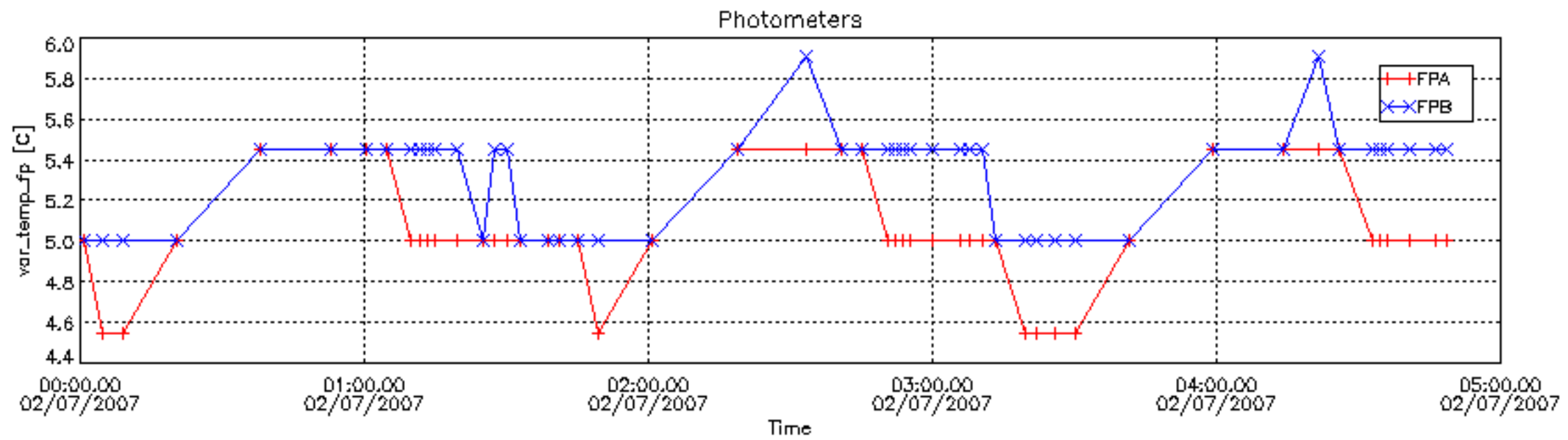
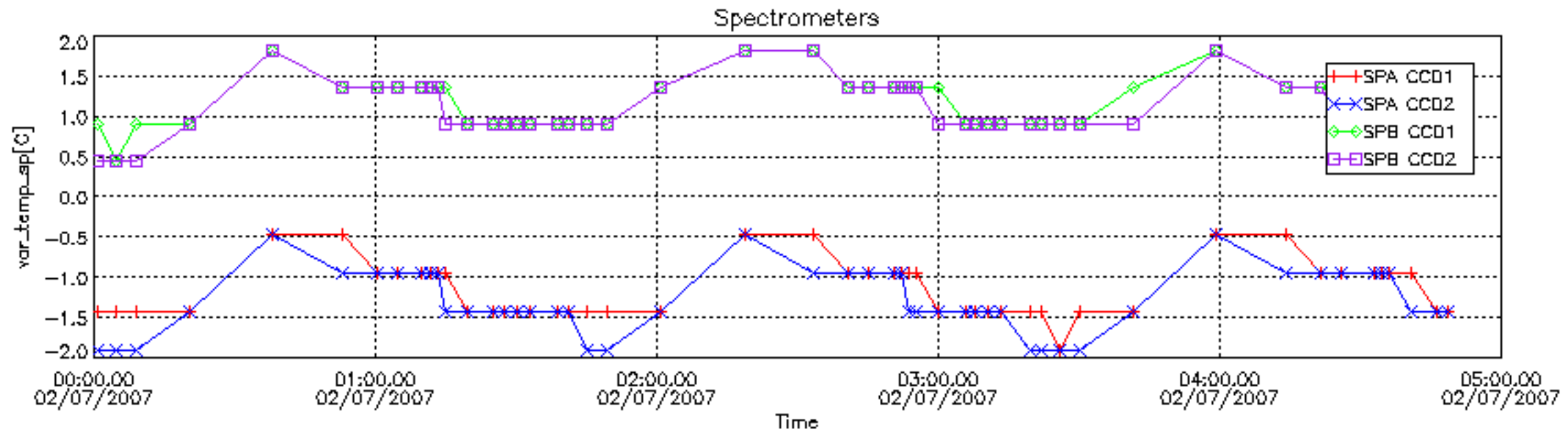


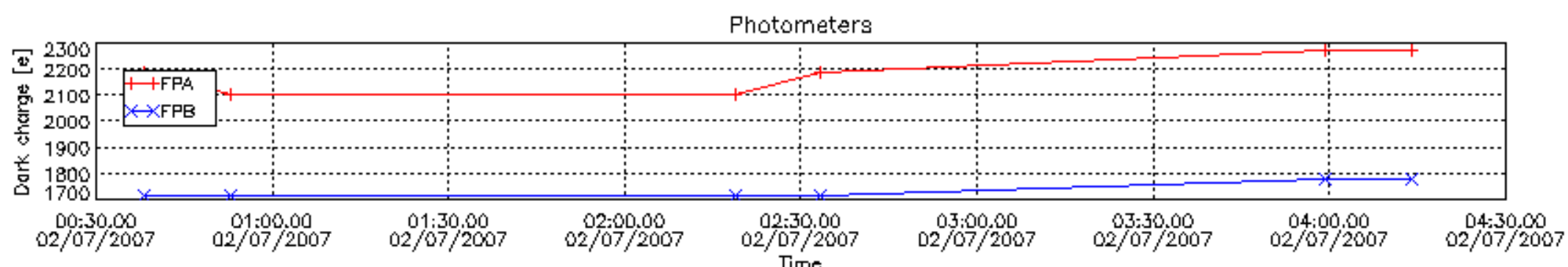
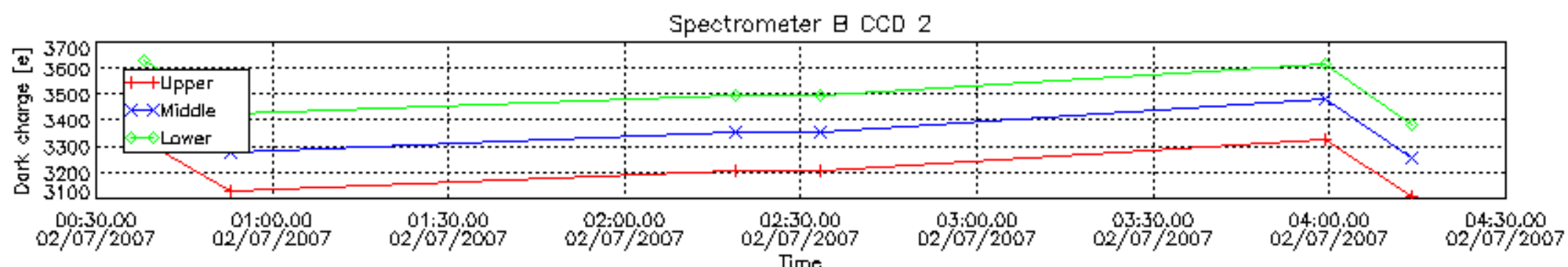
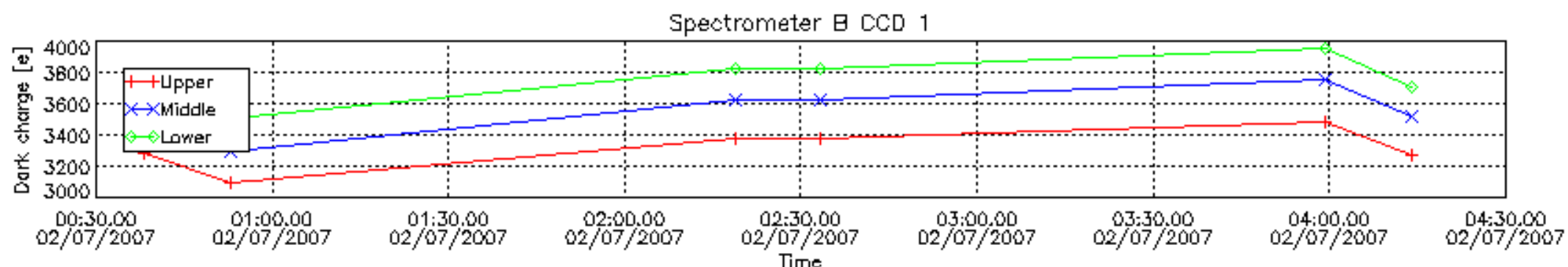
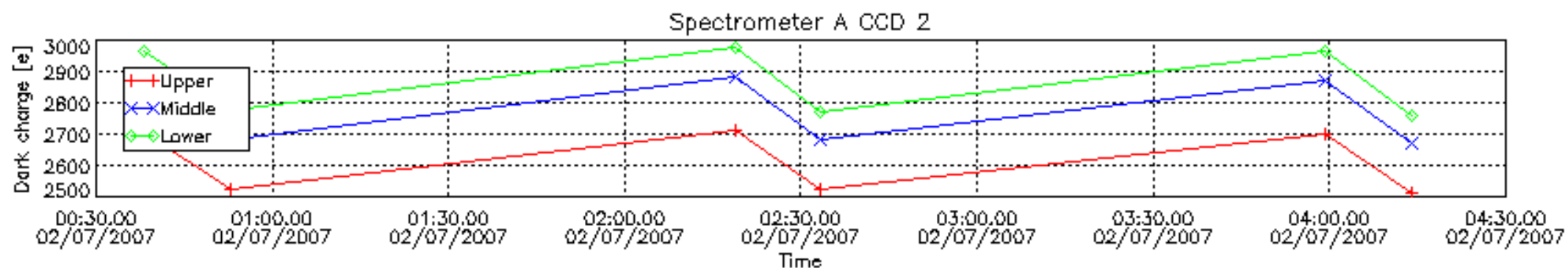
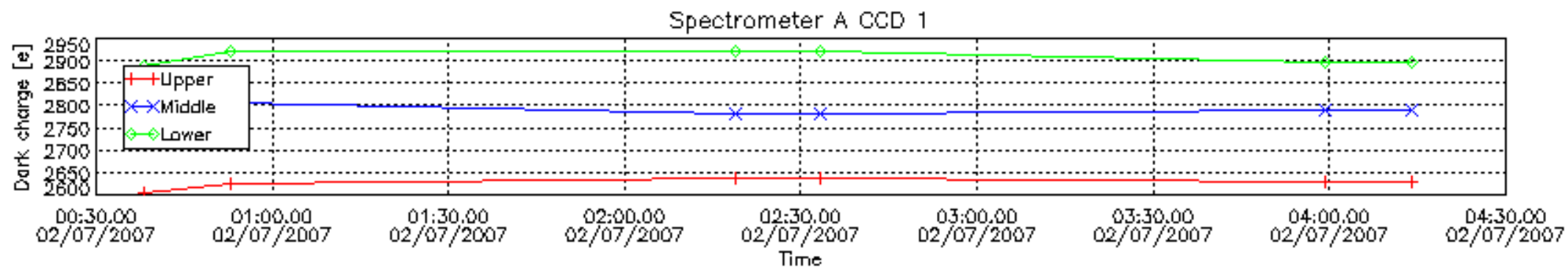
8. Auxiliary Data Files used for the production reported in section 2.4

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.

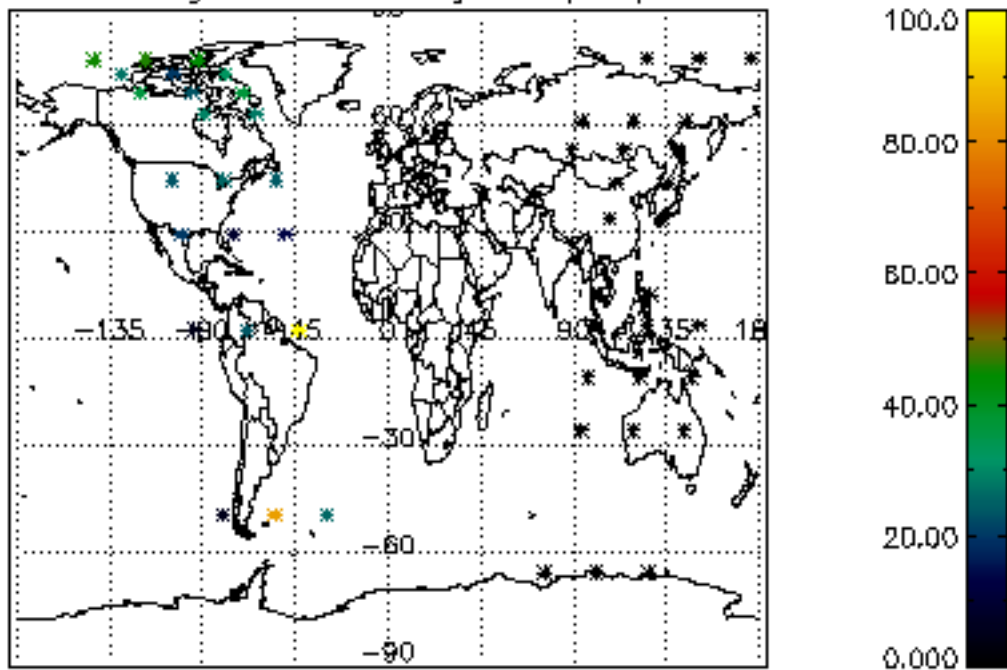
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070618_075311_20070617_000000_20100101_000000	1	02-JUL-2007 00:00:41
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	02-JUL-2007 00:00:41
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	02-JUL-2007 00:00:41
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	02-JUL-2007 00:00:41
ECMWF_FILE	AUX_ECF_AXNECM20070701_063112_20070701_210000_20070702_090000	1	02-JUL-2007 00:00:41
ECMWF_FILE	AUX_ECF_AXNECM20070701_181112_20070702_030000_20070702_150000	40	02-JUL-2007 03:41:31
OPTIONAL_ECMWF_FILE	MISSING	1	02-JUL-2007 00:00:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070701_211522_000057382059_00286_27895_3691.N1	1	02-JUL-2007 00:00:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070701_225619_000057382059_00287_27896_3692.N1	6	02-JUL-2007 00:52:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070702_003716_000054192059_00288_27897_3693.N1	23	02-JUL-2007 02:18:48
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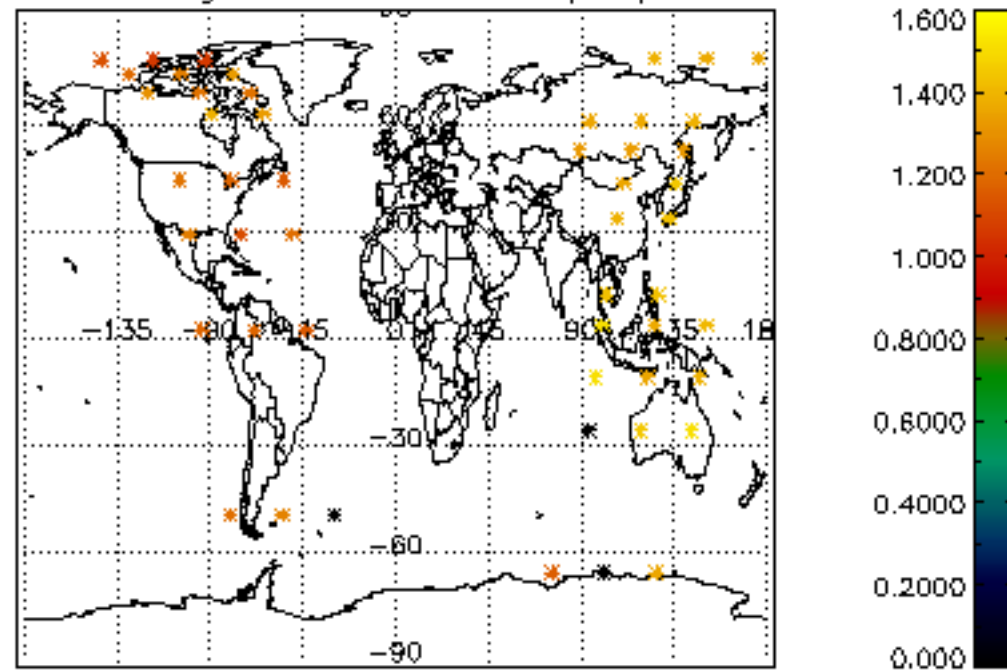




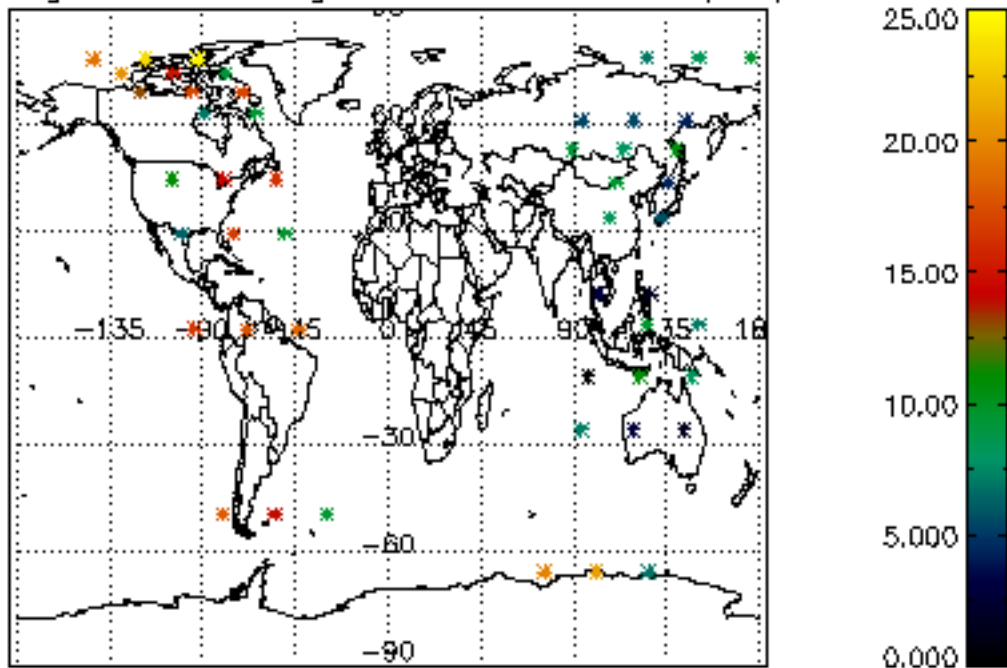
Percentage of cosmic ray hits per profile



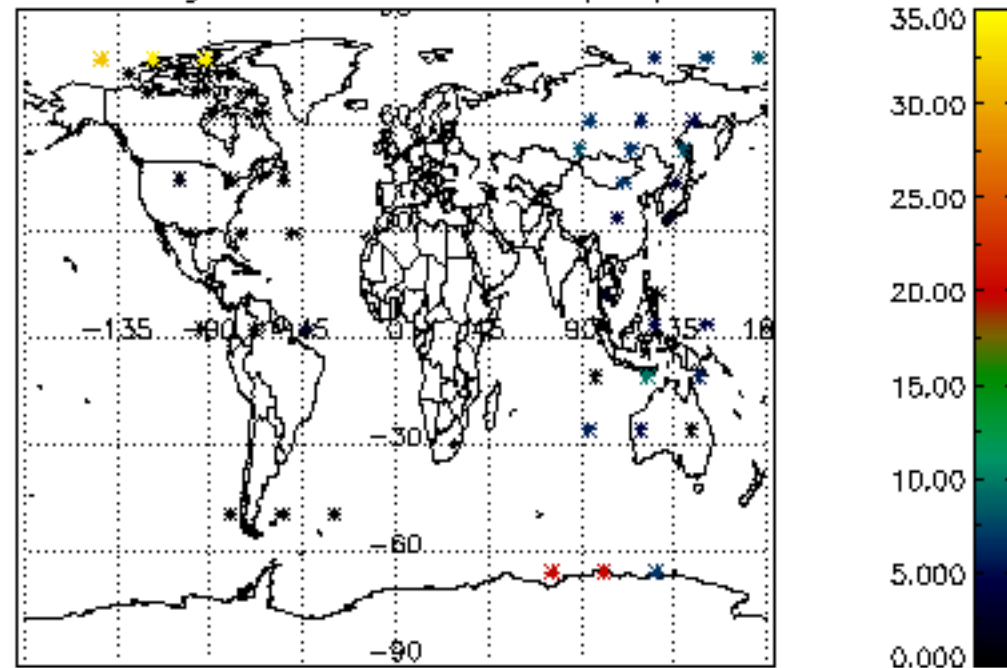
Percentage of datation errors per profile



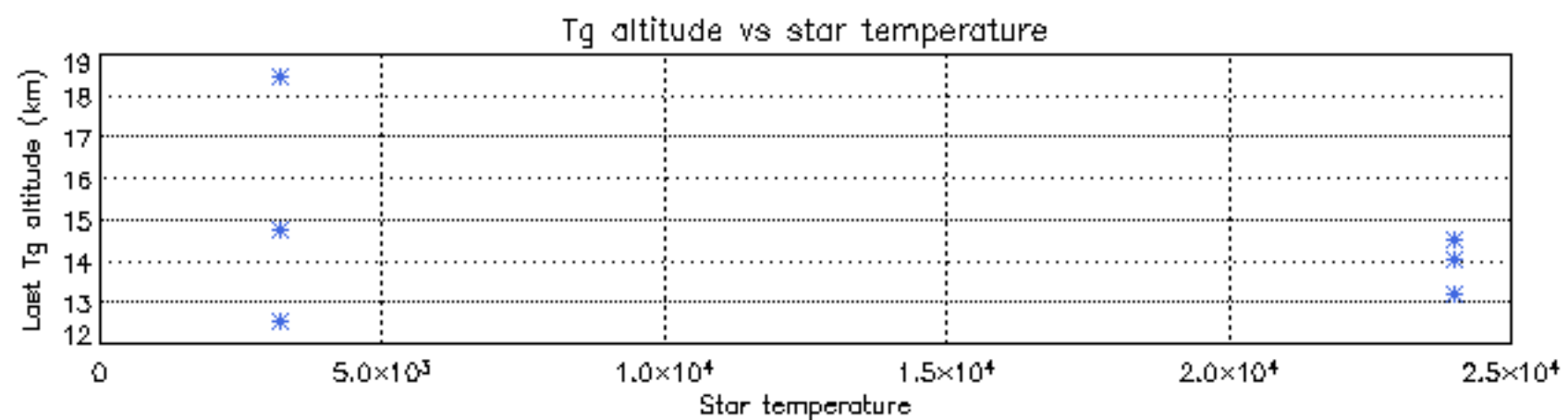
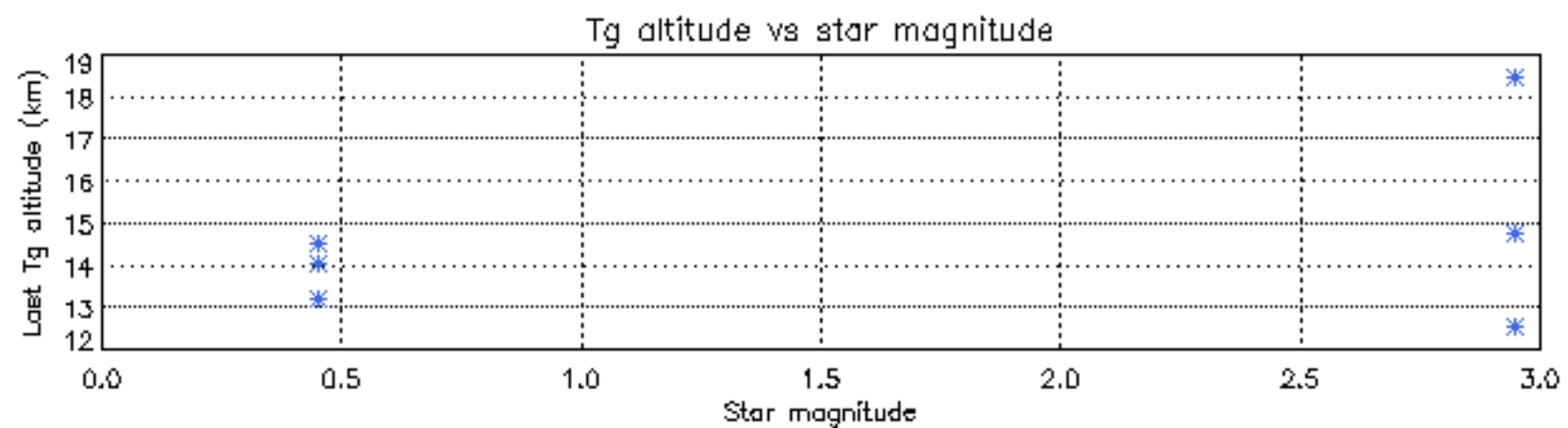
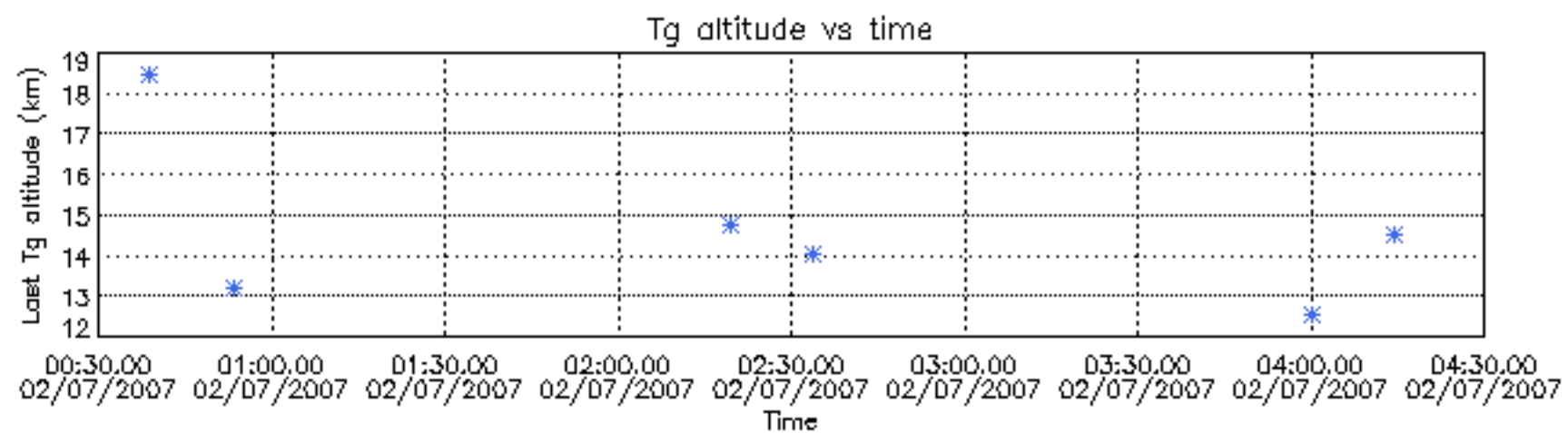
Percentage of star falling outside central band per profile



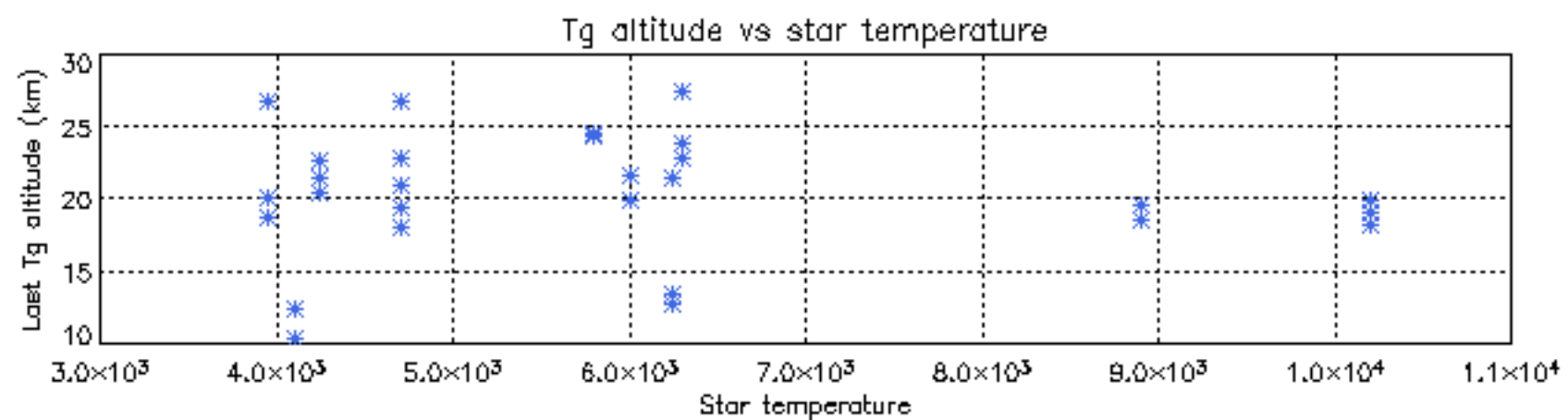
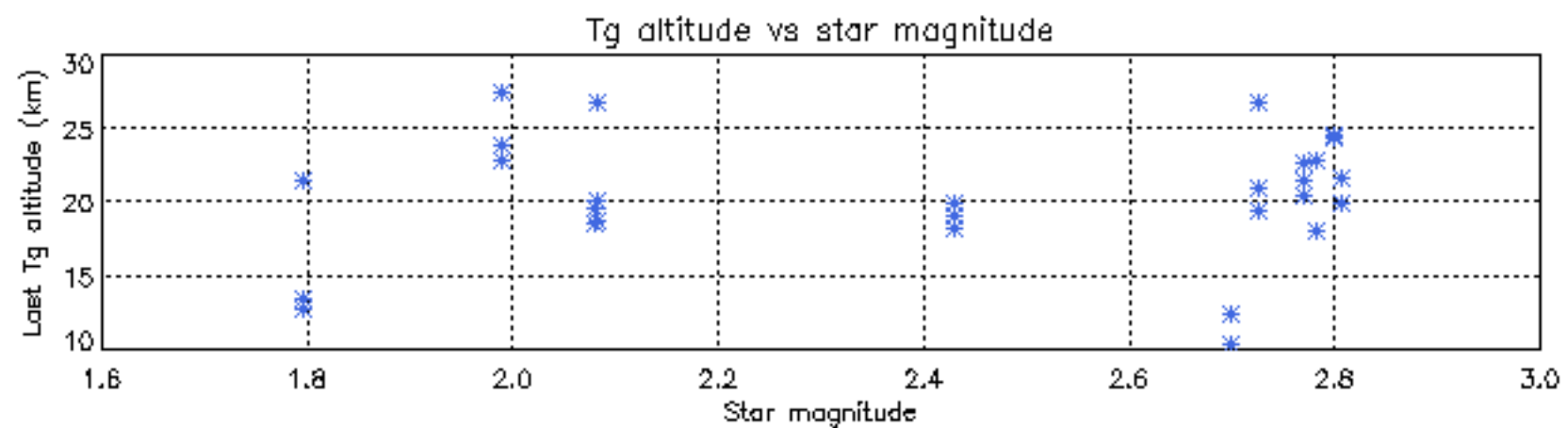
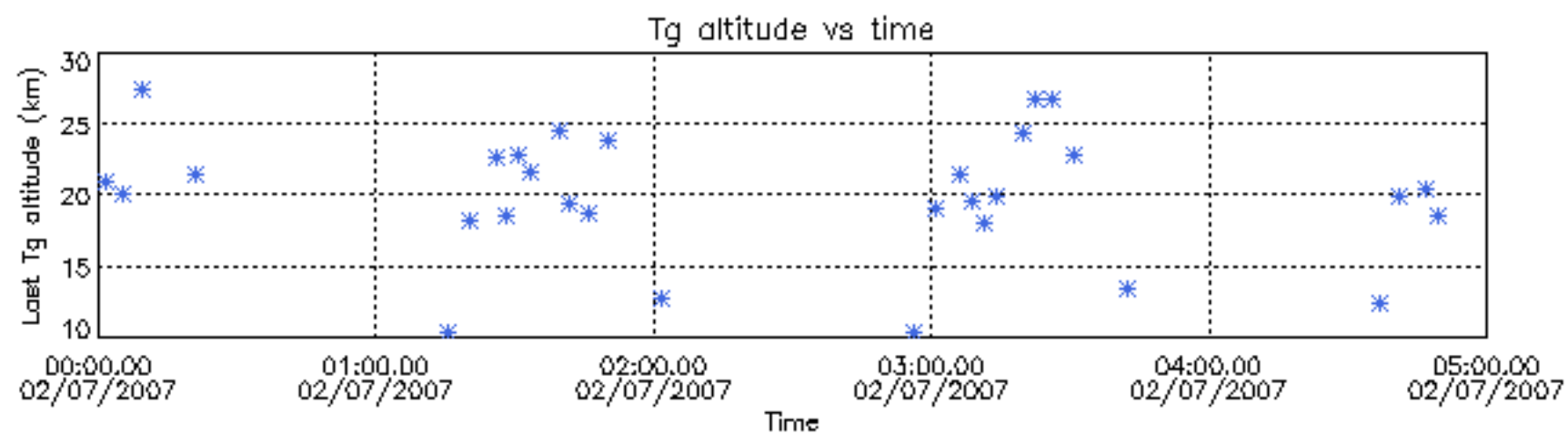
Percentage of saturation errors per profile

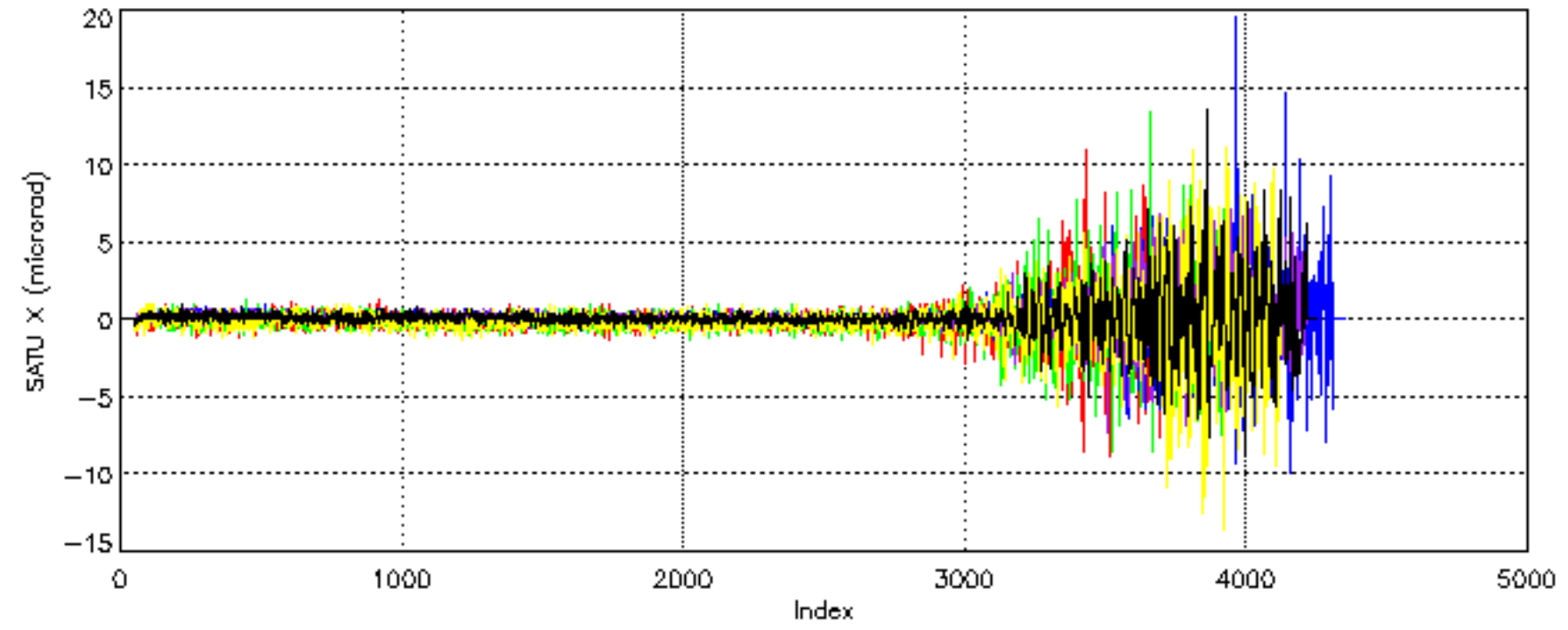


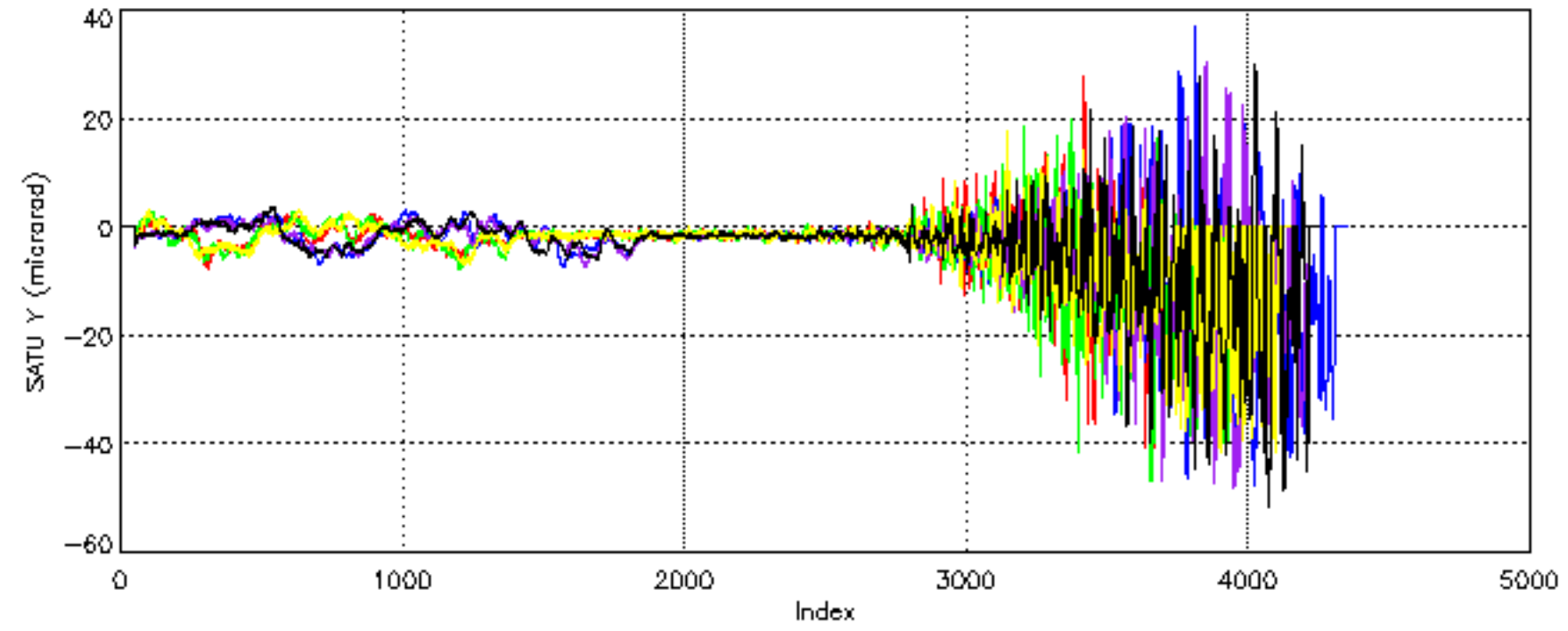
Tangent altitude at which the star is lost

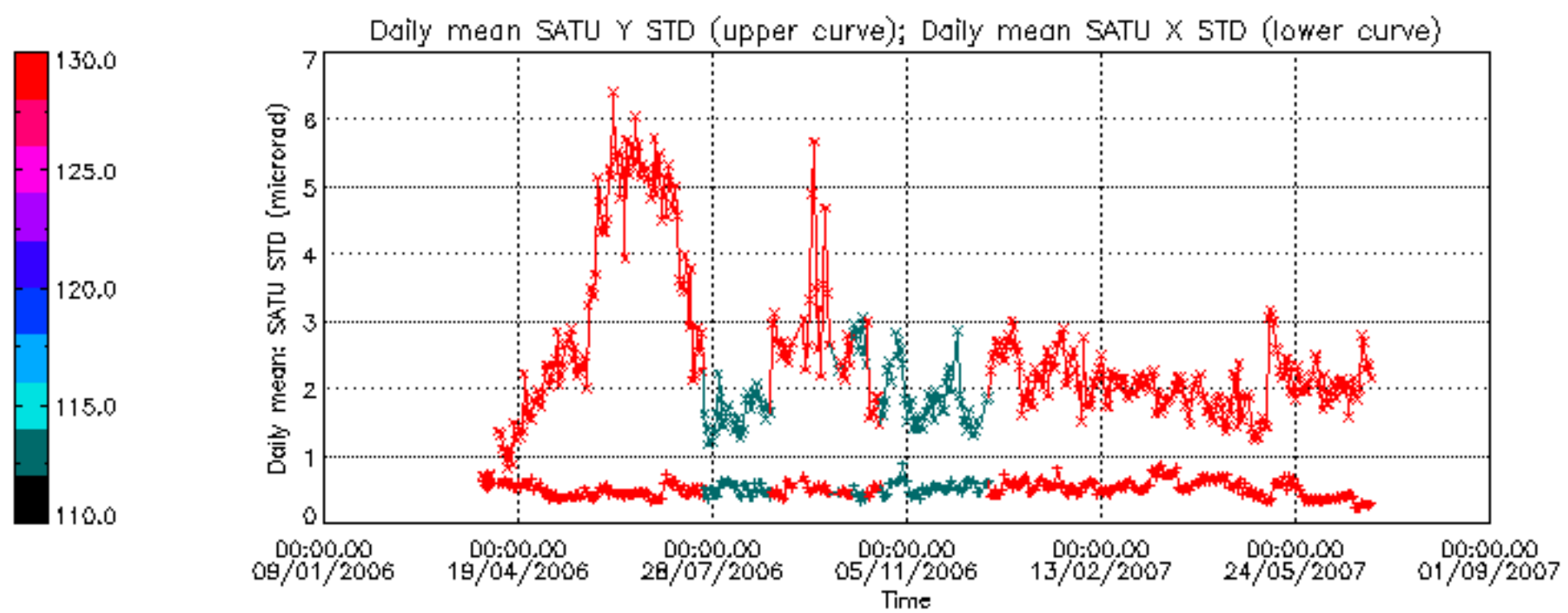


Tangent altitude at which the star is lost









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