

GOMOS Daily Report 11-APR-2009

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	14APR2009 12:14:55
Data source version	GOMOS/5.00
Start time of products	11APR2009 00:02:13
Stop time of products	11APR2009 06:35:36
Store outputs in DB	No
Nb of level 1b prods	50
Nb of prods with errors	0

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

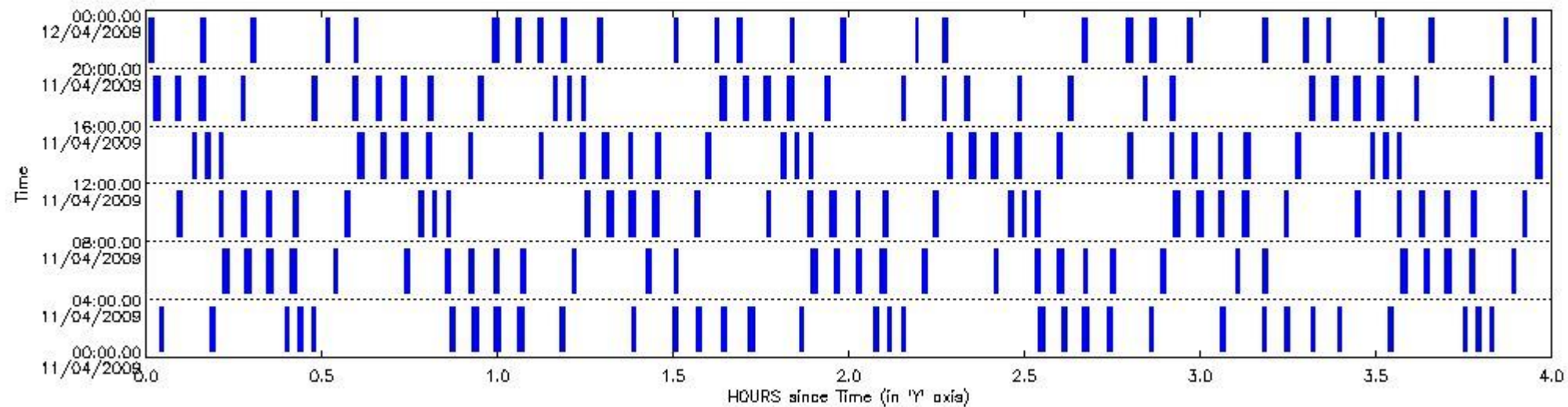
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

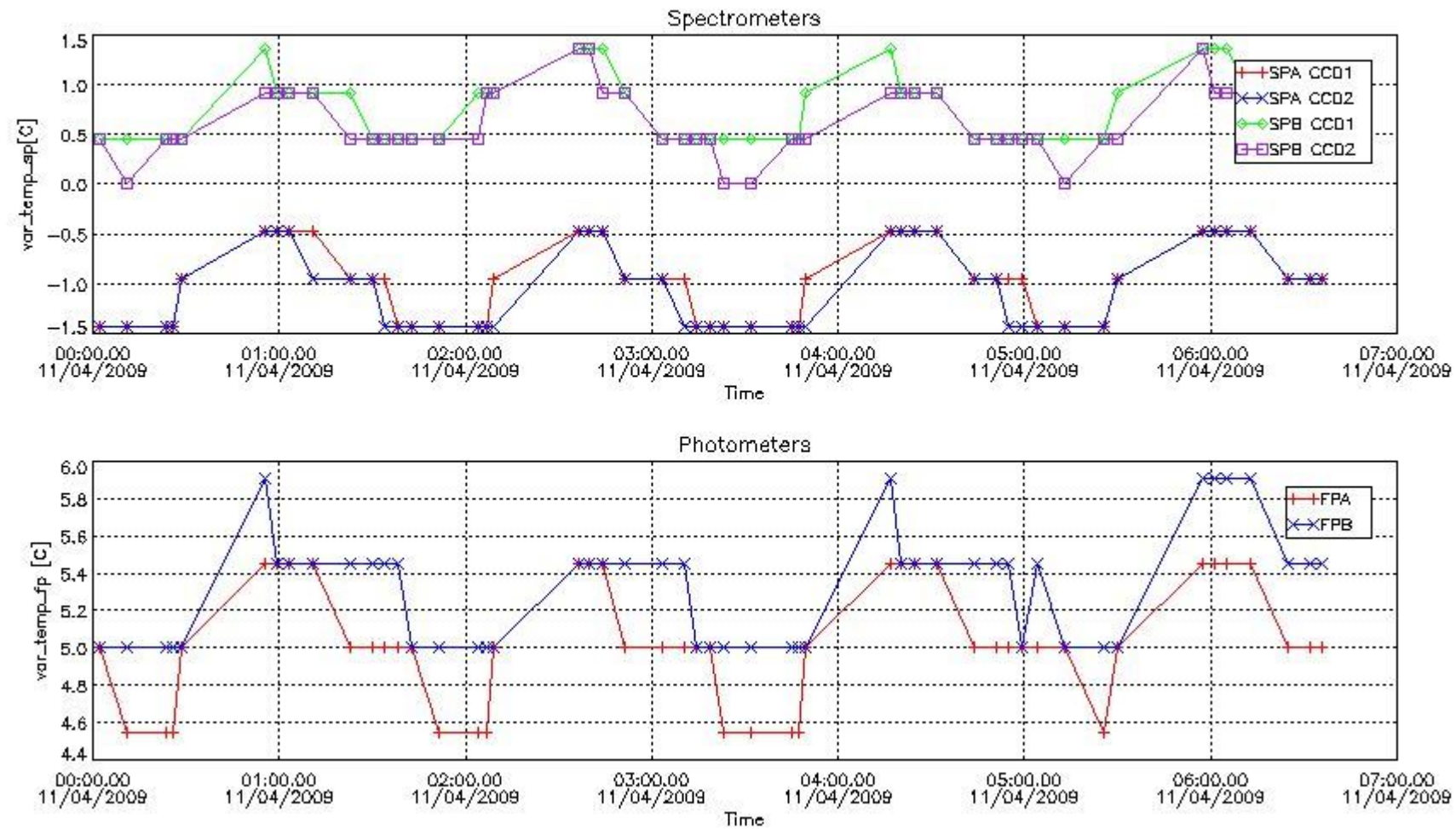
No missing products.

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_1PNPDE20090411_000213_000000412078_00059_37187_9363.N1	11-APR-2009 00:02:13	Bright	40.500	39	85Eta UMa	1.8540	24000.	81	37187	No
2	GOM_TRA_1PNPDE20090411_001055_000000472078_00059_37187_9364.N1	11-APR-2009 00:10:55	Bright	46.500	119	14Eta Dra	2.7270	4700.0	93	37187	No
3	GOM_TRA_1PNPDE20090411_002338_000000432078_00059_37187_9365.N1	11-APR-2009 00:23:38	Bright	42.500	144	18Del Cyg	2.8600	11000.	85	37187	No
4	GOM_TRA_1PNPDE20090411_002557_000000392078_00059_37187_9366.N1	11-APR-2009 00:25:57	Bright	39.000	66	37Gam Cyg	2.2080	5900.0	78	37187	No
5	GOM_TRA_1PNPDE20090411_002818_000000372078_00059_37187_9367.N1	11-APR-2009 00:28:18	Bright	36.500	92	53Eps Cyg	2.5000	4500.0	73	37187	No
6	GOM_TRA_1PNPDE20090411_005536_000000602078_00060_37188_9519.N1	11-APR-2009 00:55:36	Dark	60.000	103	38Zet Sgr	2.6000	9700.0	120	37188	No
7	GOM_TRA_1PNPDE20090411_005915_000000642078_00060_37188_9520.N1	11-APR-2009 00:59:15	Dark	63.500	38	20Eps Sgr	1.8360	11000.	127	37188	No
8	GOM_TRA_1PNPDE20090411_010322_000000602078_00060_37188_9521.N1	11-APR-2009 01:03:22	Dark	59.500	25	35Lam Sco	1.6200	28000.	119	37188	No
9	GOM_TRA_1PNPDE20090411_011041_000000422078_00060_37188_9522.N1	11-APR-2009 01:10:41	Straylight	42.000	109	Bet Lup	2.6770	26000.	84	37188	No
10	GOM_TRA_1PNPDE20090411_012254_000000412078_00060_37188_9523.N1	11-APR-2009 01:22:54	Bright	40.500	15	67Alp Vir	0.97600	28000.	81	37188	No
11	GOM_TRA_1PNPDE20090411_012959_000000422078_00060_37188_9524.N1	11-APR-2009 01:29:59	Bright	41.500	138	47Eps Vir	2.8280	4700.0	83	37188	No
12	GOM_TRA_1PNPDE20090411_013350_000000542078_00060_37188_9525.N1	11-APR-2009 01:33:50	Bright	54.000	111	8Eta Boo	2.6800	6000.0	108	37188	No

13	GOM_TRA_1PNPDE20090411_013815_000000392078_00060_37188_9526.N1	11-APR-2009 01:38:15	Bright	39.000	152	12Alp2CVn	2.8900	11000.	78	37188	No
14	GOM_TRA_1PNPDE20090411_014249_000000642078_00060_37188_9527.N1	11-APR-2009 01:42:49	Bright	64.000	39	85Eta UMa	1.8540	24000.	128	37188	No
15	GOM_TRA_1PNPDE20090411_015130_000000452078_00060_37188_9528.N1	11-APR-2009 01:51:30	Bright	44.500	119	14Eta Dra	2.7270	4700.0	89	37188	No
16	GOM_TRA_1PNPDE20090411_020414_000000432078_00060_37188_9529.N1	11-APR-2009 02:04:14	Bright	42.500	144	18Del Cyg	2.8600	11000.	85	37188	No
17	GOM_TRA_1PNPDE20090411_020633_000000392078_00060_37188_9530.N1	11-APR-2009 02:06:33	Bright	39.000	66	37Gam Cyg	2.2080	5900.0	78	37188	No
18	GOM_TRA_1PNPDE20090411_020854_000000372078_00060_37188_9531.N1	11-APR-2009 02:08:54	Bright	37.000	92	53Eps Cyg	2.5000	4500.0	74	37188	No
19	GOM_TRA_1PNPDE20090411_023614_000000572078_00061_37189_9650.N1	11-APR-2009 02:36:14	Dark	56.500	103	38Zet Sgr	2.6000	9700.0	113	37189	No
20	GOM_TRA_1PNPDE20090411_023952_000000652078_00061_37189_9651.N1	11-APR-2009 02:39:52	Dark	65.000	38	20Eps Sgr	1.8360	11000.	130	37189	No
21	GOM_TRA_1PNPDE20090411_024359_000000612078_00061_37189_9652.N1	11-APR-2009 02:43:59	Dark	61.000	25	35Lam Sco	1.6200	28000.	122	37189	No
22	GOM_TRA_1PNPDE20090411_025118_000000432078_00061_37189_9653.N1	11-APR-2009 02:51:18	Straylight	42.500	109	Bet Lup	2.6770	26000.	85	37189	No
23	GOM_TRA_1PNPDE20090411_030330_000000422078_00061_37189_9654.N1	11-APR-2009 03:03:30	Bright	41.500	15	67Alp Vir	0.97600	28000.	83	37189	No
24	GOM_TRA_1PNPDE20090411_031034_000000422078_00061_37189_9655.N1	11-APR-2009 03:10:34	Bright	41.500	138	47Eps Vir	2.8280	4700.0	83	37189	No
25	GOM_TRA_1PNPDE20090411_031426_000000532078_00061_37189_9656.N1	11-APR-2009 03:14:26	Bright	53.000	111	8Eta Boo	2.6800	6000.0	106	37189	No
26	GOM_TRA_1PNPDE20090411_031850_000000402078_00061_37189_9657.N1	11-APR-2009 03:18:50	Bright	40.000	152	12Alp2CVn	2.8900	11000.	80	37189	No
27	GOM_TRA_1PNPDE20090411_032324_000000432078_00061_37189_9658.N1	11-APR-2009 03:23:24	Bright	43.000	39	85Eta UMa	1.8540	24000.	86	37189	No
28	GOM_TRA_1PNPDE20090411_033206_000000442078_00061_37189_9659.N1	11-APR-2009 03:32:06	Bright	43.500	119	14Eta Dra	2.7270	4700.0	87	37189	No
29	GOM_TRA_1PNPDE20090411_034450_000000422078_00061_37189_9830.N1	11-APR-2009 03:44:50	Bright	42.000	144	18Del Cyg	2.8600	11000.	84	37189	No
30	GOM_TRA_1PNPDE20090411_034709_000000392078_00061_37189_9831.N1	11-APR-2009 03:47:09	Bright	38.500	66	37Gam Cyg	2.2080	5900.0	77	37189	No
31	GOM_TRA_1PNPDE20090411_034930_000000372078_00061_37189_9832.N1	11-APR-2009 03:49:30	Bright	36.500	92	53Eps Cyg	2.5000	4500.0	73	37189	No
32	GOM_TRA_1PNPDE20090411_041650_000000562078_00062_37190_9833.N1	11-APR-2009 04:16:50	Dark	56.000	103	38Zet Sgr	2.6000	9700.0	112	37190	No
33	GOM_TRA_1PNPDE20090411_042030_000000612078_00062_37190_9834.N1	11-APR-2009 04:20:30	Dark	61.000	38	20Eps Sgr	1.8360	11000.	122	37190	No
34	GOM_TRA_1PNPDE20090411_042437_000000612078_00062_37190_9835.N1	11-APR-2009 04:24:37	Dark	60.500	25	35Lam Sco	1.6200	28000.	121	37190	No
35	GOM_TRA_1PNPDE20090411_043154_000000432078_00062_37190_9836.N1	11-APR-2009 04:31:54	Straylight	42.500	109	Bet Lup	2.6770	26000.	85	37190	No
36	GOM_TRA_1PNPDE20090411_044406_000000412078_00062_37190_9837.N1	11-APR-2009 04:44:06	Bright	41.000	15	67Alp Vir	0.97600	28000.	82	37190	No
37	GOM_TRA_1PNPDE20090411_045110_000000412078_00062_37190_9838.N1	11-APR-2009 04:51:10	Bright	41.000	138	47Eps Vir	2.8280	4700.0	82	37190	No
38	GOM_TRA_1PNPDE20090411_045501_000000542078_00062_37190_9839.N1	11-APR-2009 04:55:01	Bright	54.000	111	8Eta Boo	2.6800	6000.0	108	37190	No
39	GOM_TRA_1PNPDE20090411_045926_000000412078_00062_37190_9840.N1	11-APR-2009 04:59:26	Bright	41.000	152	12Alp2CVn	2.8900	11000.	82	37190	No
40	GOM_TRA_1PNPDE20090411_050359_000000442078_00062_37190_9841.N1	11-APR-2009 05:03:59	Bright	43.500	39	85Eta UMa	1.8540	24000.	87	37190	No
41	GOM_TRA_1PNPDE20090411_051241_000000442078_00062_37190_9842.N1	11-APR-2009 05:12:41	Bright	44.000	119	14Eta Dra	2.7270	4700.0	88	37190	No
42	GOM_TRA_1PNPDE20090411_052525_000000432078_00062_37190_0005.N1	11-APR-2009 05:25:25	Bright	42.500	144	18Del Cyg	2.8600	11000.	85	37190	No
43	GOM_TRA_1PNPDE20090411_053006_000000372078_00062_37190_0006.N1	11-APR-2009 05:30:06	Bright	37.000	92	53Eps Cyg	2.5000	4500.0	74	37190	No
44	GOM_TRA_1PNPDE20090411_055728_000000572078_00063_37191_0007.N1	11-APR-2009 05:57:28	Dark	56.500	103	38Zet Sgr	2.6000	9700.0	113	37191	No
45	GOM_TRA_1PNPDE20090411_060107_000000592078_00063_37191_0008.N1	11-APR-2009 06:01:07	Dark	59.000	38	20Eps Sgr	1.8360	11000.	118	37191	No
46	GOM_TRA_1PNPDE20090411_060514_000000622078_00063_37191_0009.N1	11-APR-2009 06:05:14	Dark	62.000	25	35Lam Sco	1.6200	28000.	124	37191	No
47	GOM_TRA_1PNPDE20090411_061231_000000442078_00063_37191_0010.N1	11-APR-2009 06:12:31	Straylight	43.500	109	Bet Lup	2.6770	26000.	87	37191	No
48	GOM_TRA_1PNPDE20090411_062442_000000422078_00063_37191_0011.N1	11-APR-2009 06:24:42	Bright	41.500	15	67Alp Vir	0.97600	28000.	83	37191	No
49	GOM_TRA_1PNPDE20090411_063146_000000432078_00063_37191_0012.N1	11-APR-2009 06:31:46	Bright	43.000	138	47Eps Vir	2.8280	4700.0	86	37191	No
50	GOM_TRA_1PNPDE20090411_063536_000000552078_00063_37191_0013.N1	11-APR-2009 06:35:36	Bright	55.000	111	8Eta Boo	2.6800	6000.0	110	37191	No

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



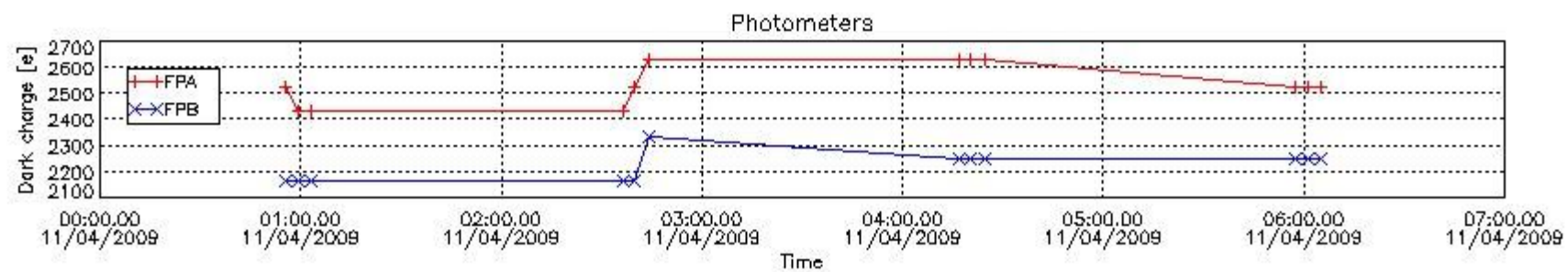
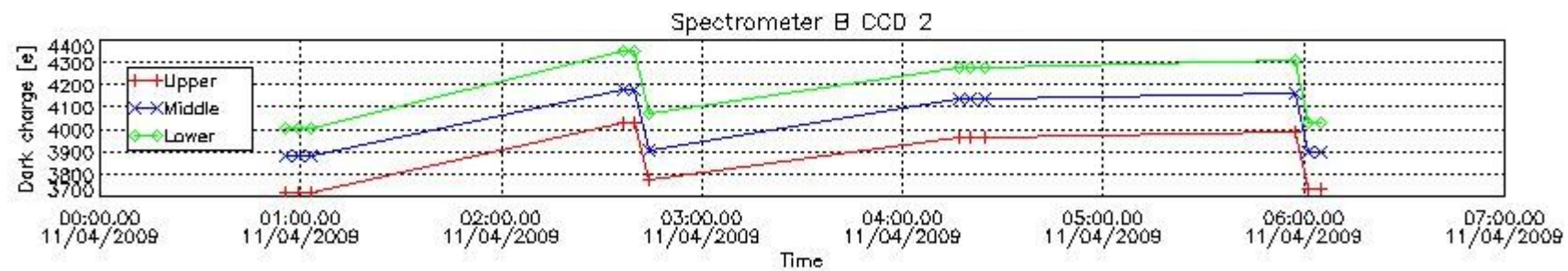
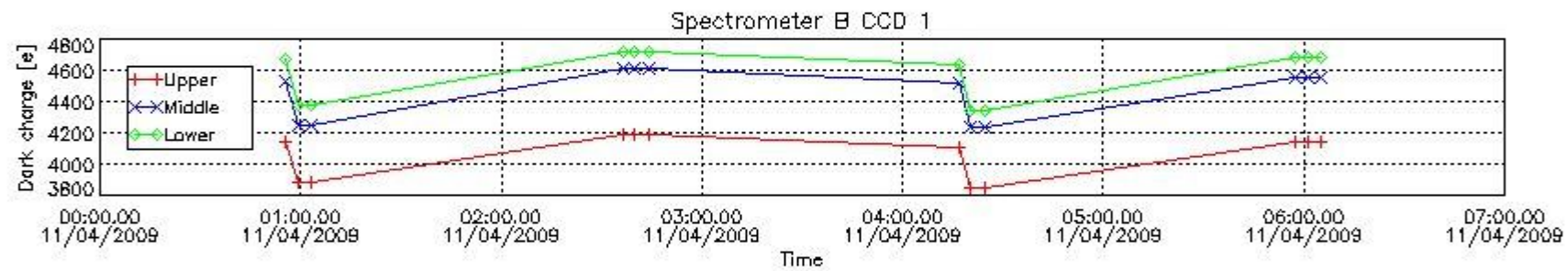
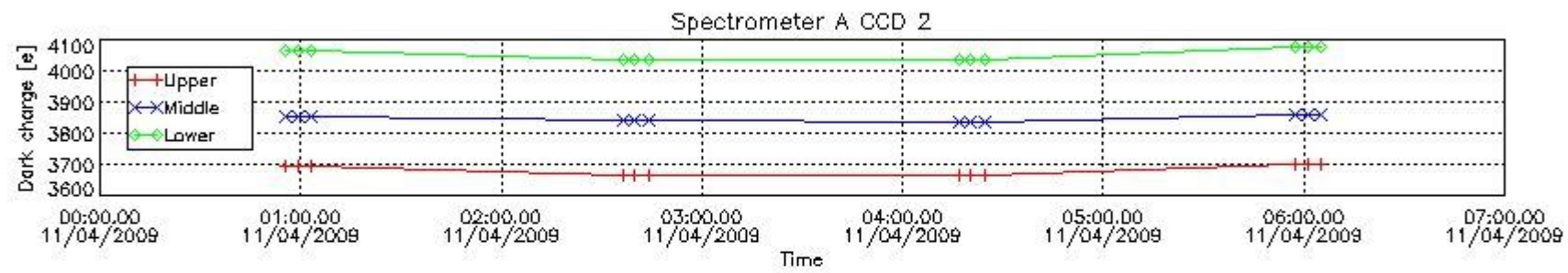
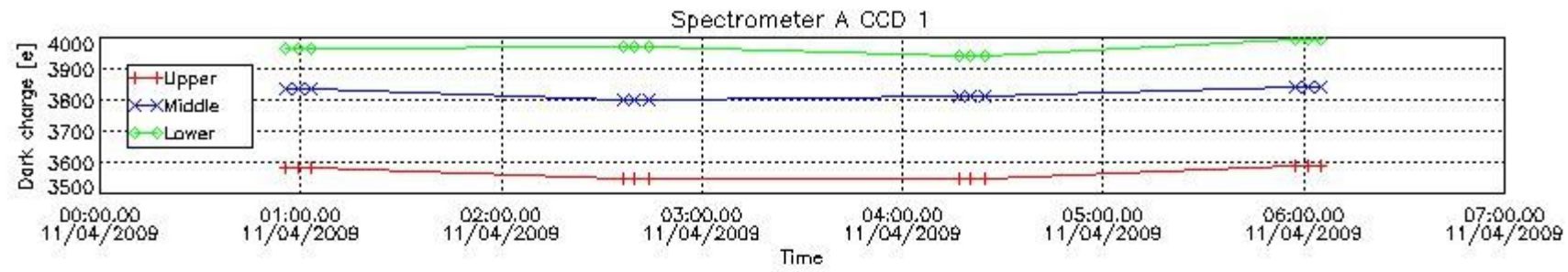
4. Overview of dark signal processing per product

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



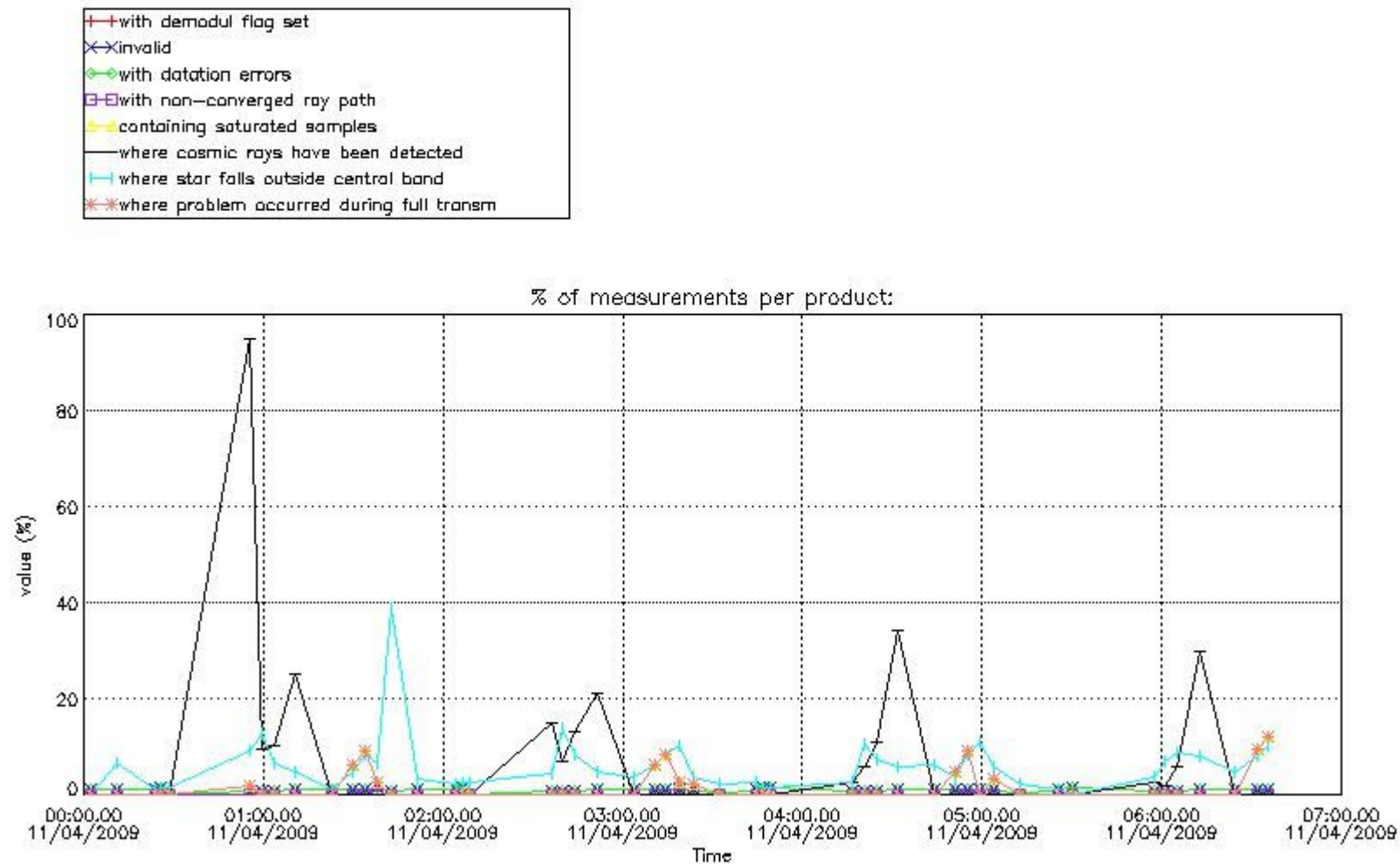
5. Demodulation flag and quality information monitoring

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.

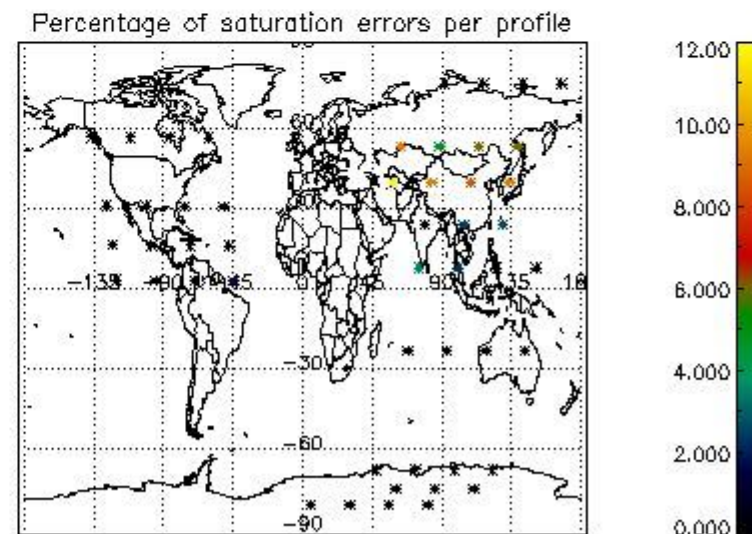
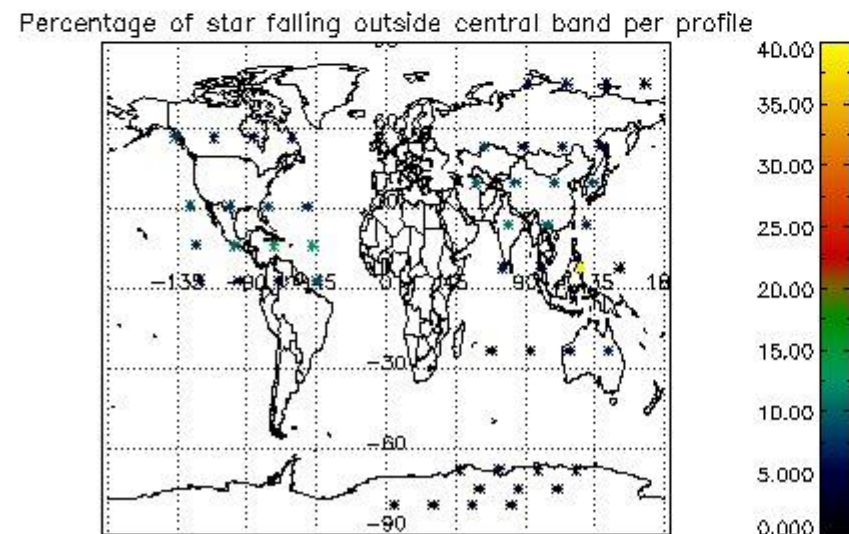
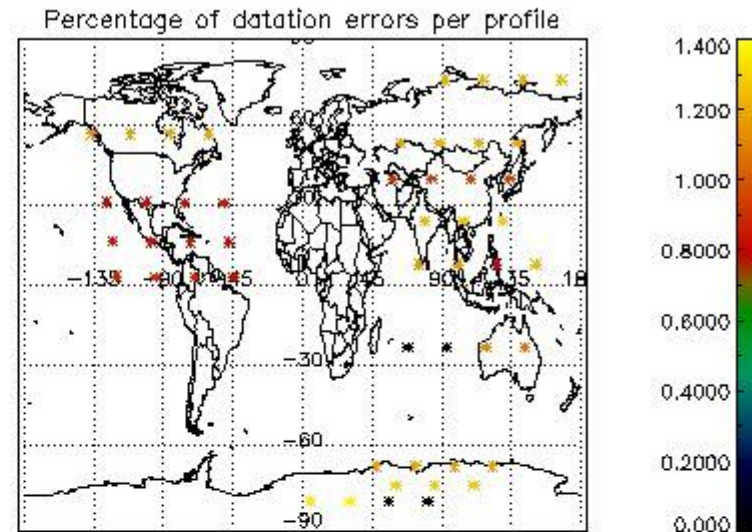
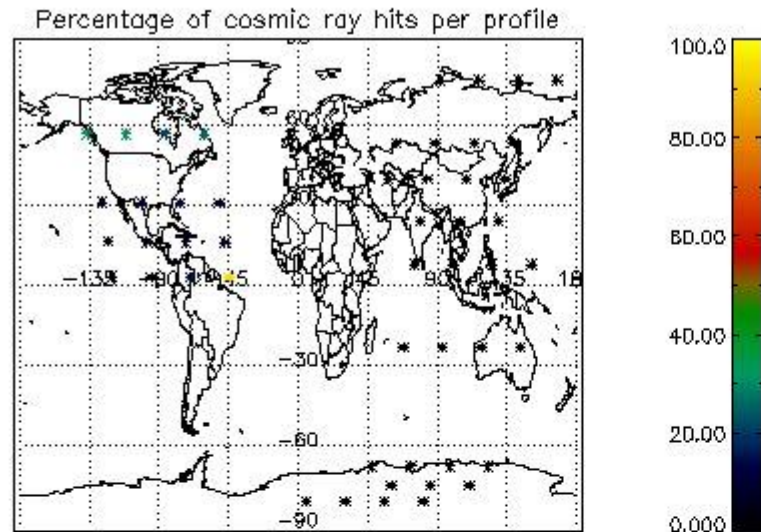
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	14.0000 %
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)



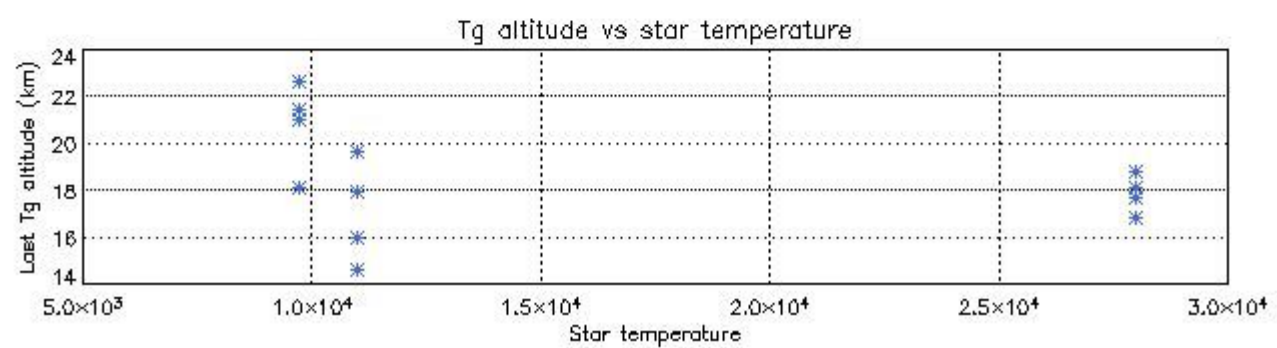
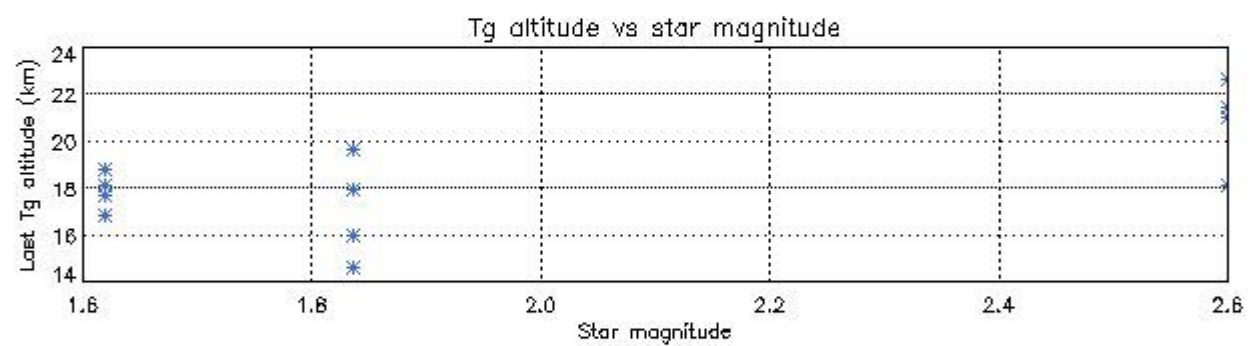
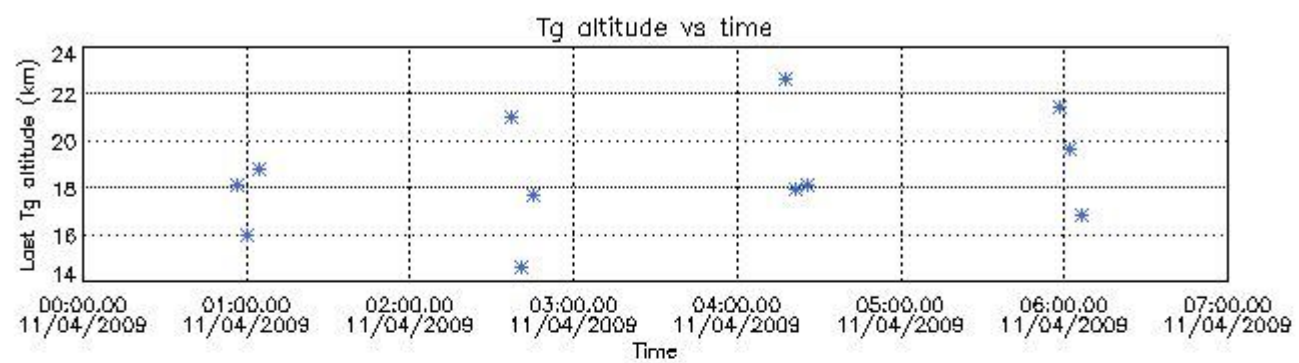
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	18.553	26.768	NaN
St. deviation:	2.3153	10.191	NaN
Maximum:	22.603	41.363	NaN
Minimum:	14.577	2.9207	NaN
Number of data:	12.000	34.000	NaN

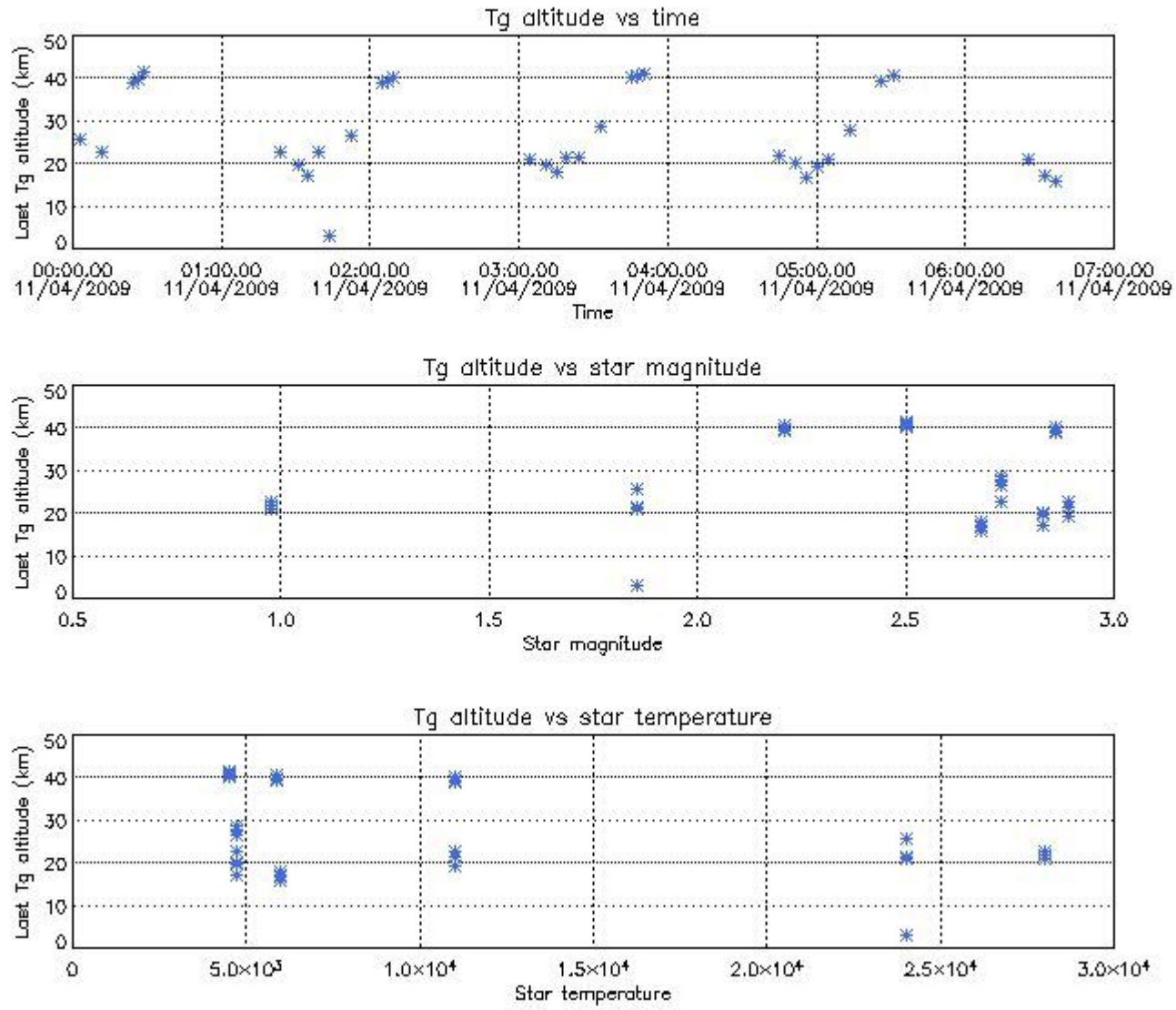
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

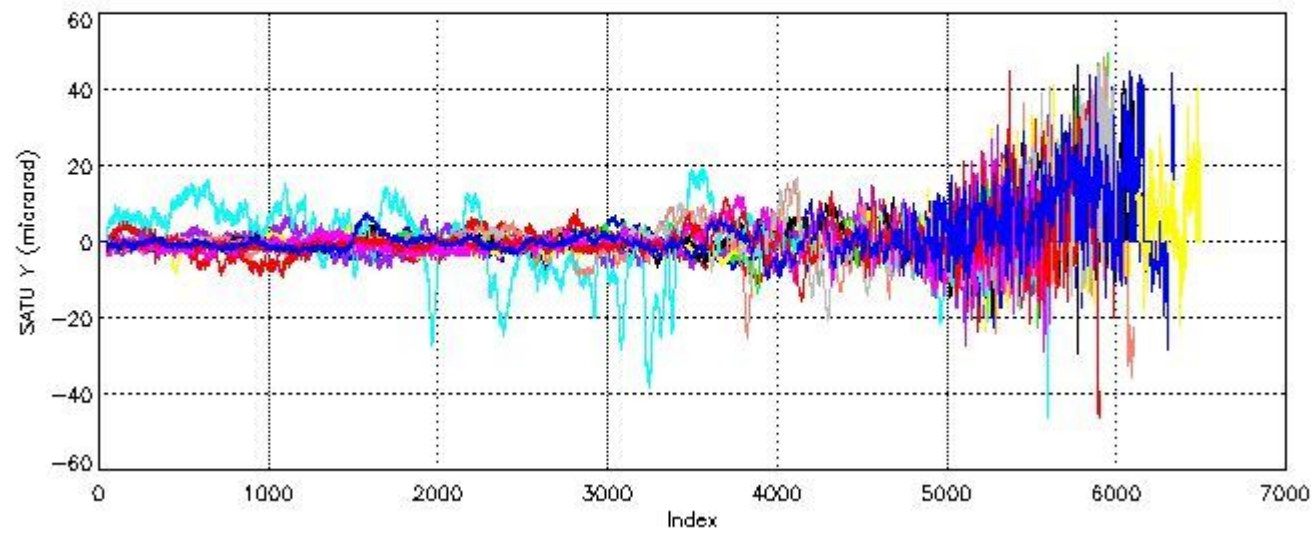
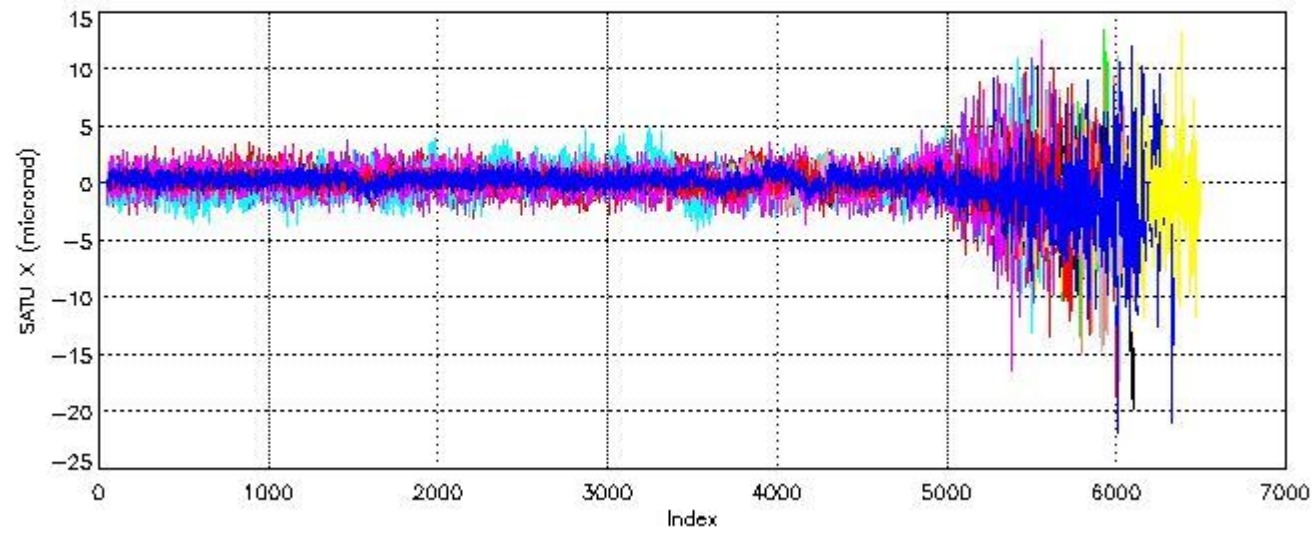


7. Star Acquisition and Tracking Unit (SATU)

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:	0.25074	-0.21238	0.33398	-0.84907
St. deviation:	0.63998	1.5816	0.82018	1.3876
Maximum:	3.6000	16.300	5.6000	9.3000
Minimum:	-3.8000	-9.5000	-5.4000	-8.9000

Number of data:	17000.	17000.	36250.	36250.
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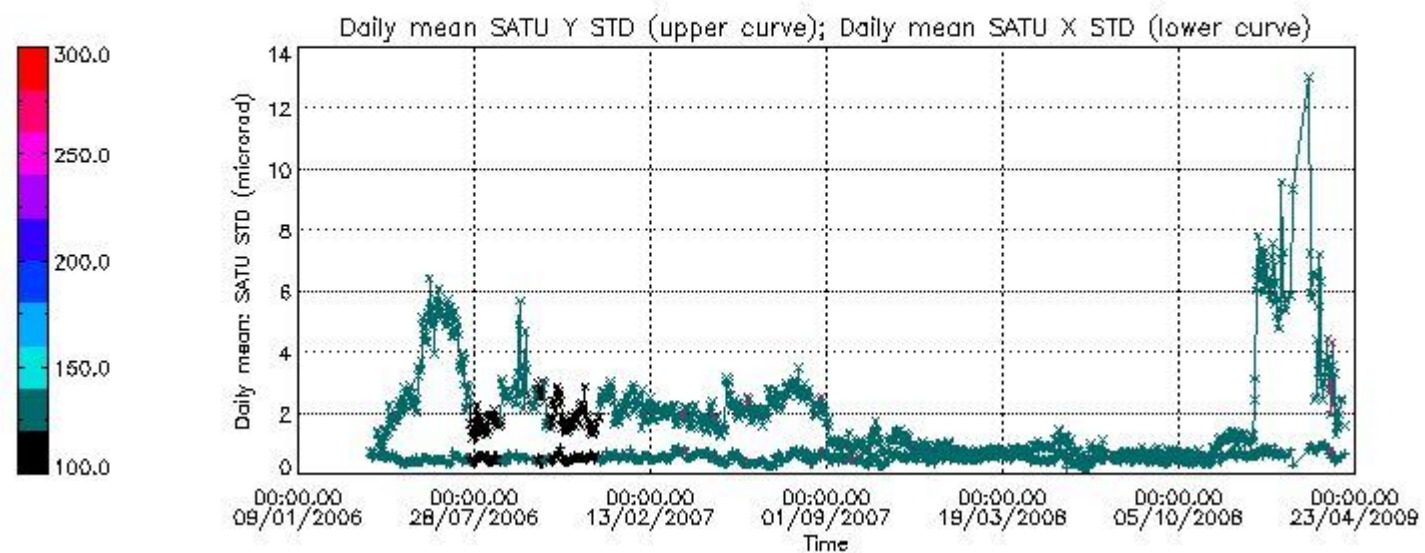
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

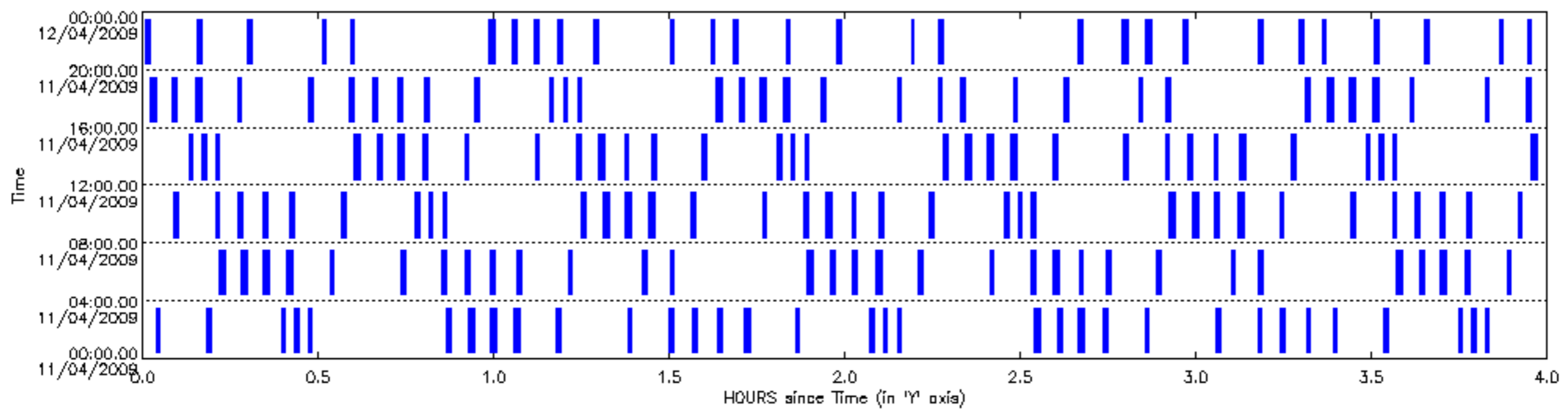
Lower curve: STD of SATU X axis

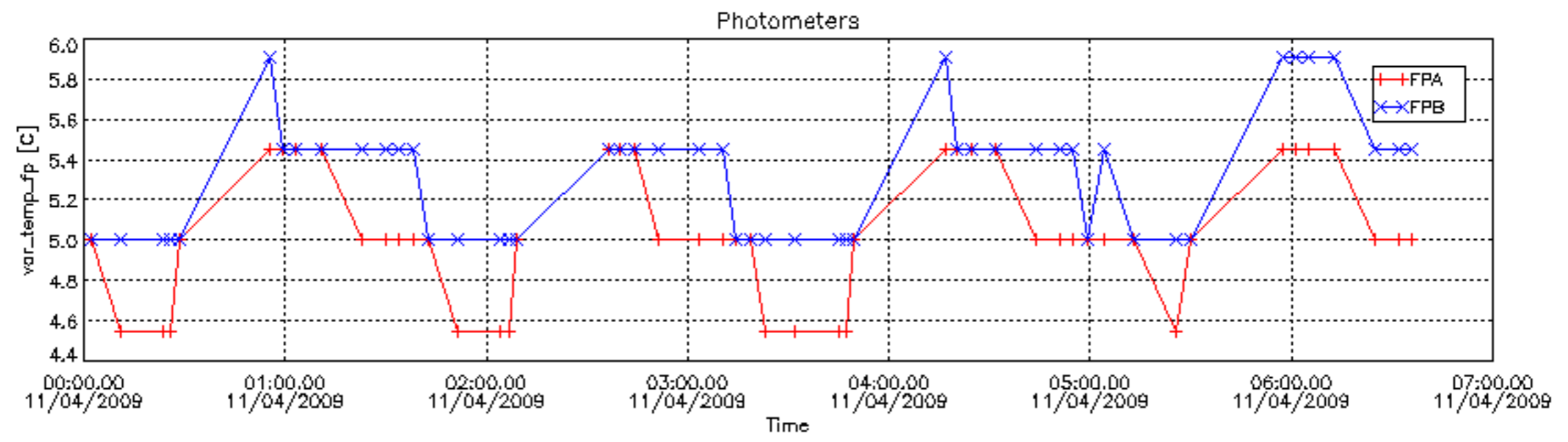
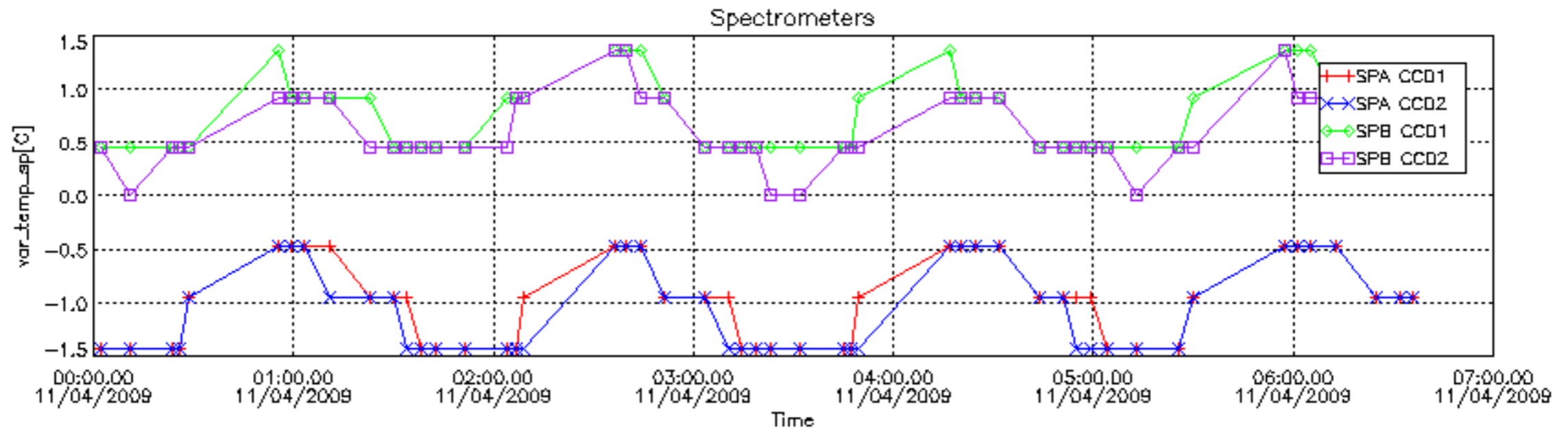


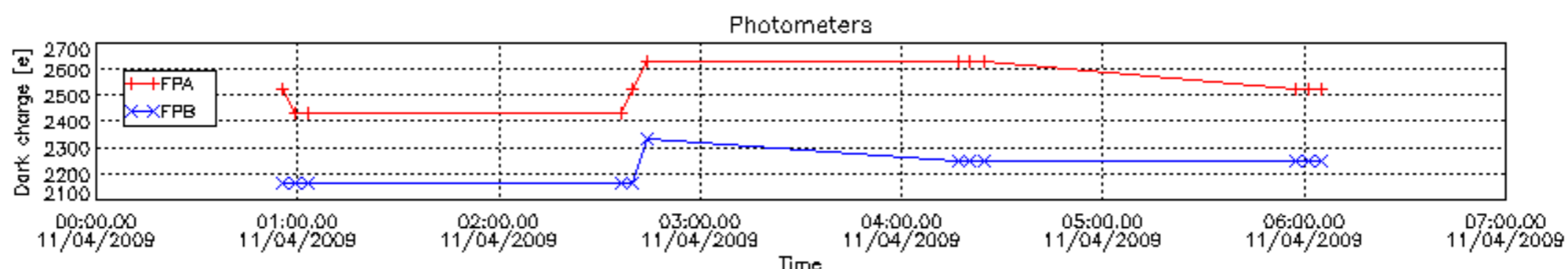
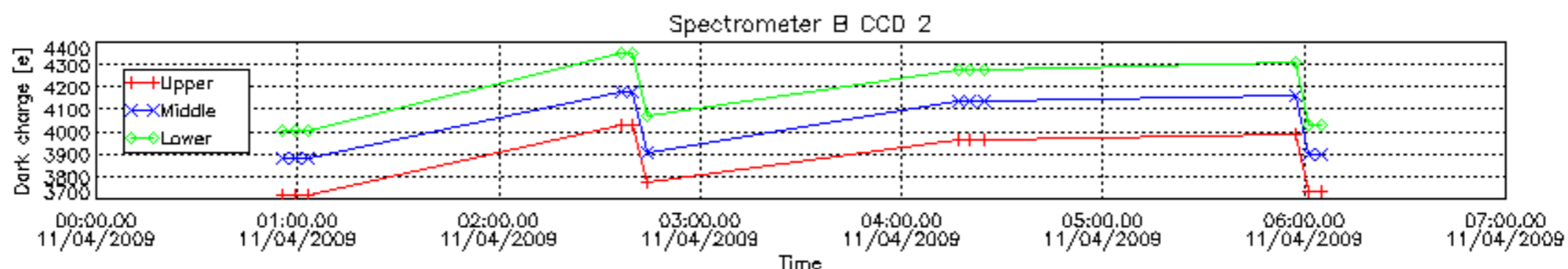
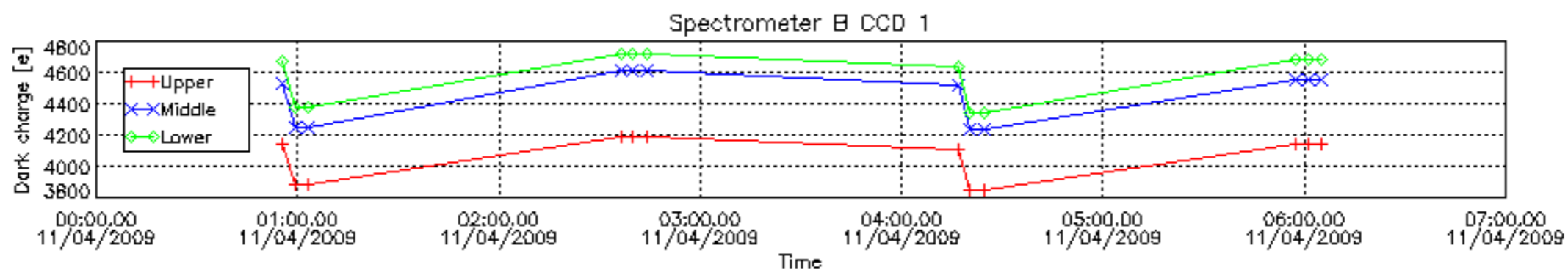
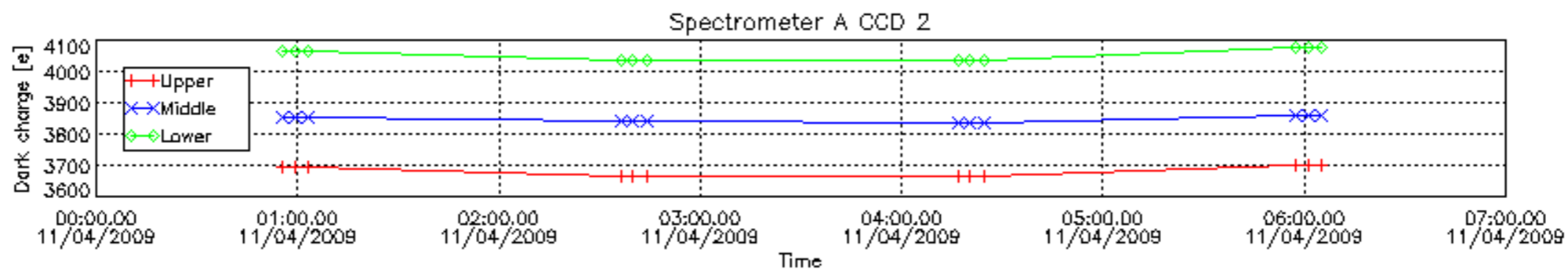
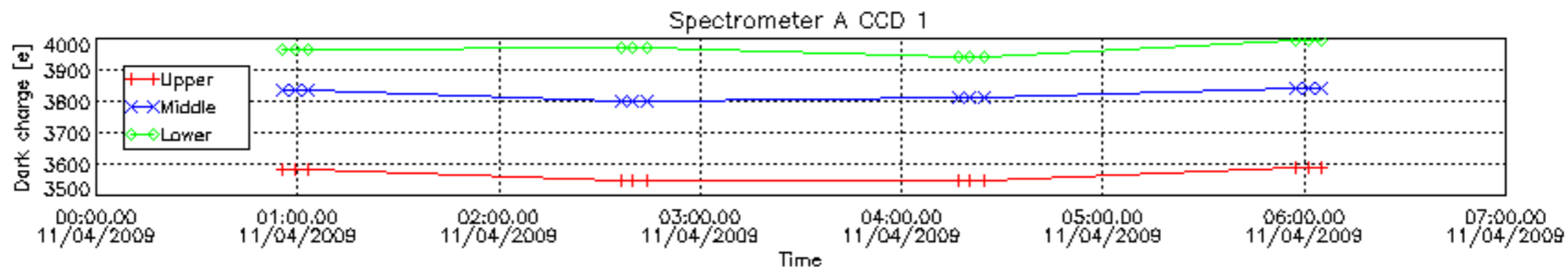
8. Auxiliary Data Files used for the production reported in section 2.4

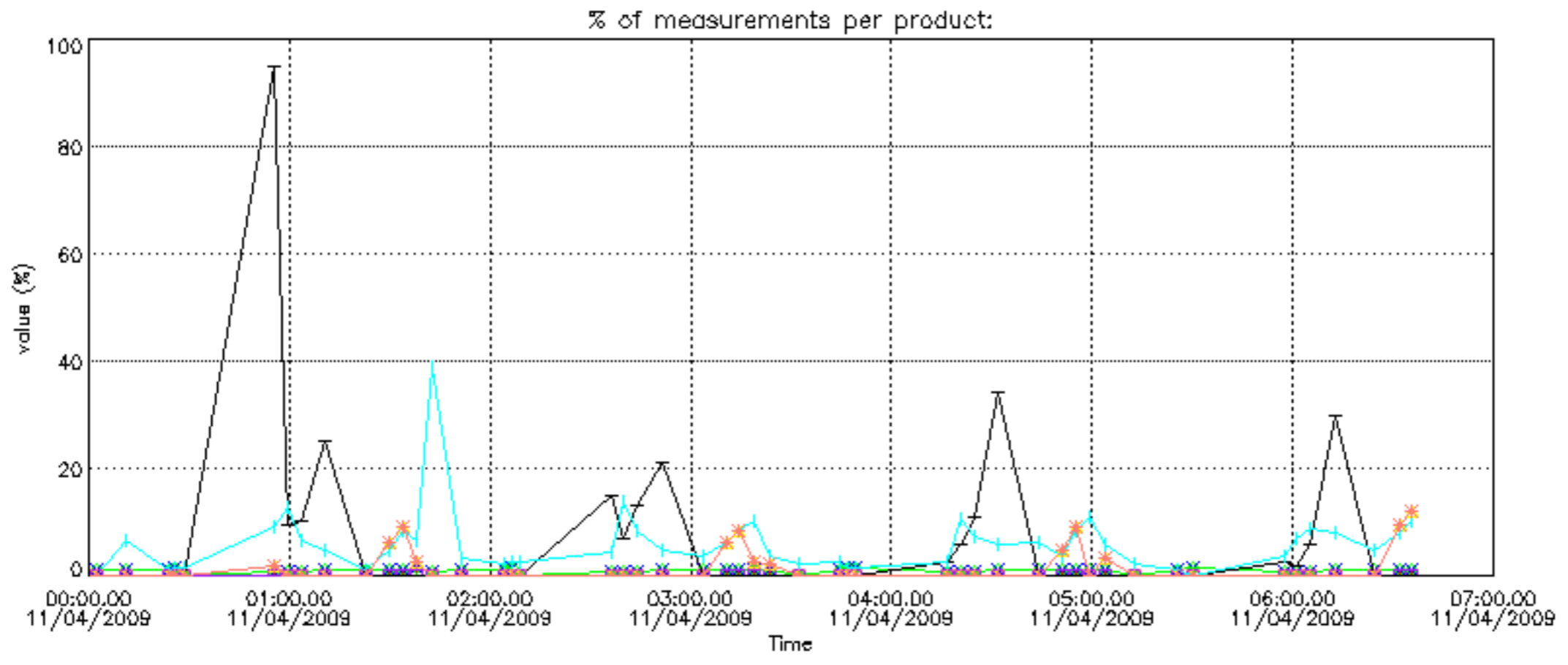
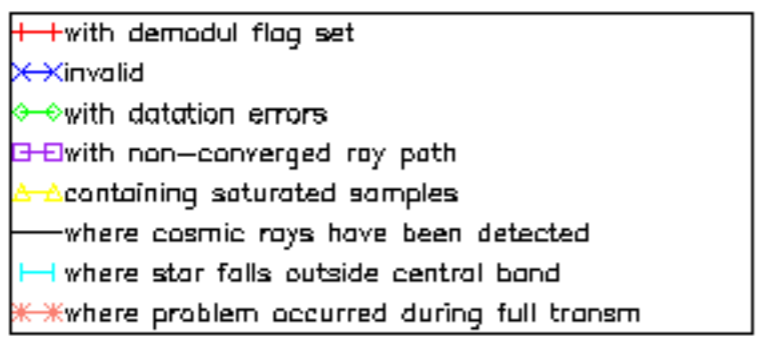
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	11-APR-2009 00:02:13
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090323_082818_20090321_000000_20100101_000000	1	11-APR-2009 00:02:13
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	11-APR-2009 00:02:13
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	11-APR-2009 00:02:13
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	11-APR-2009 00:02:13
ECMWF_FILE	AUX_ECF_AXNECM20090410_064112_20090410_210000_20090411_090000	1	11-APR-2009 00:02:13
ECMWF_FILE	AUX_ECF_AXNECM20090410_184112_20090411_030000_20090411_150000	29	11-APR-2009 03:44:50
OPTIONAL_ECMWF_FILE	MISSING	1	11-APR-2009 00:02:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090410_211823_000057382078_00057_37185_7724.N1	1	11-APR-2009 00:02:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090410_225920_000057382078_00058_37186_7725.N1	6	11-APR-2009 00:55:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090411_004017_000054192078_00059_37187_7726.N1	19	11-APR-2009 02:36:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090411_021555_000041442078_00060_37188_7727.N1	29	11-APR-2009 03:44:50
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090411_033018_000060572078_00061_37189_7728.N1	42	11-APR-2009 05:25:25

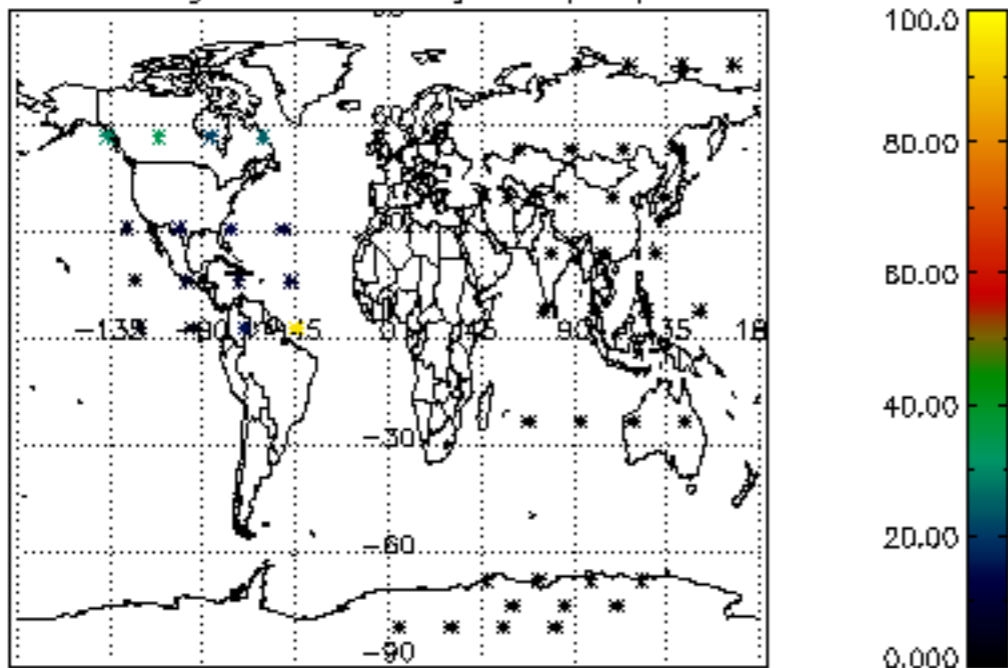




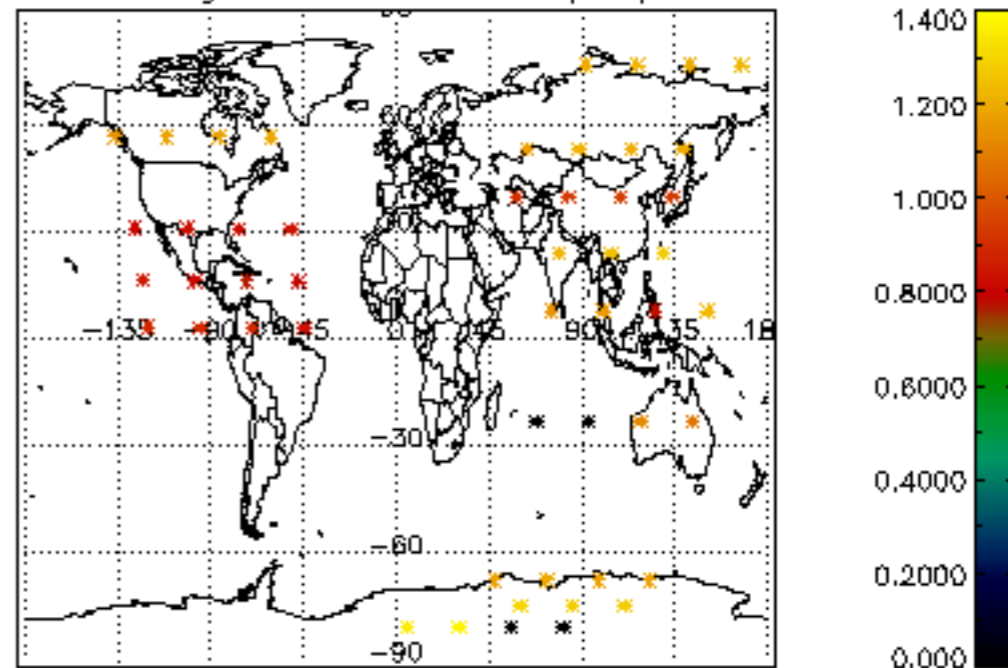




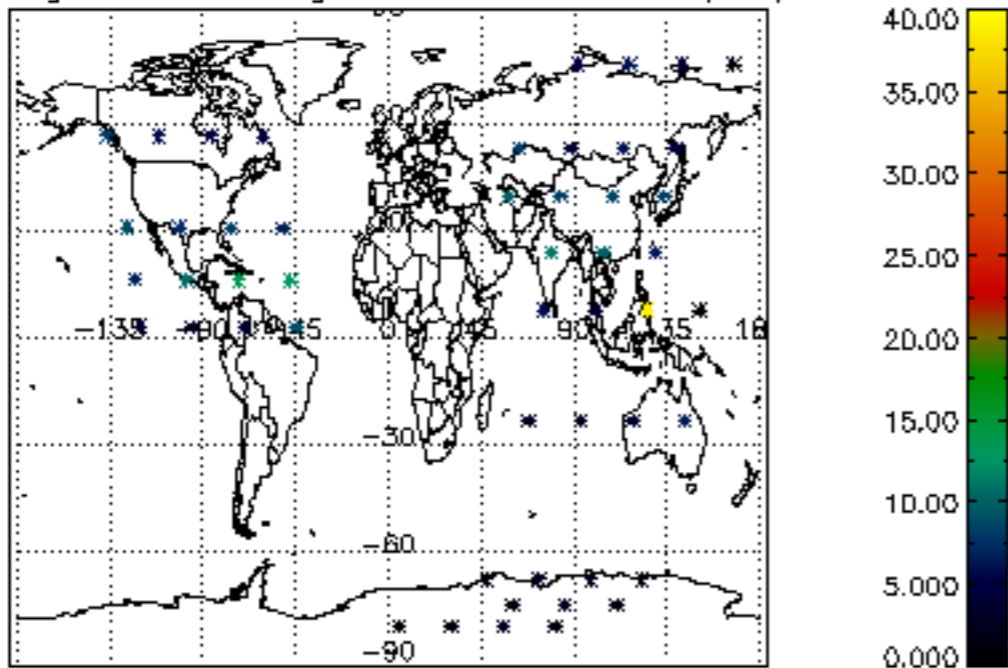
Percentage of cosmic ray hits per profile



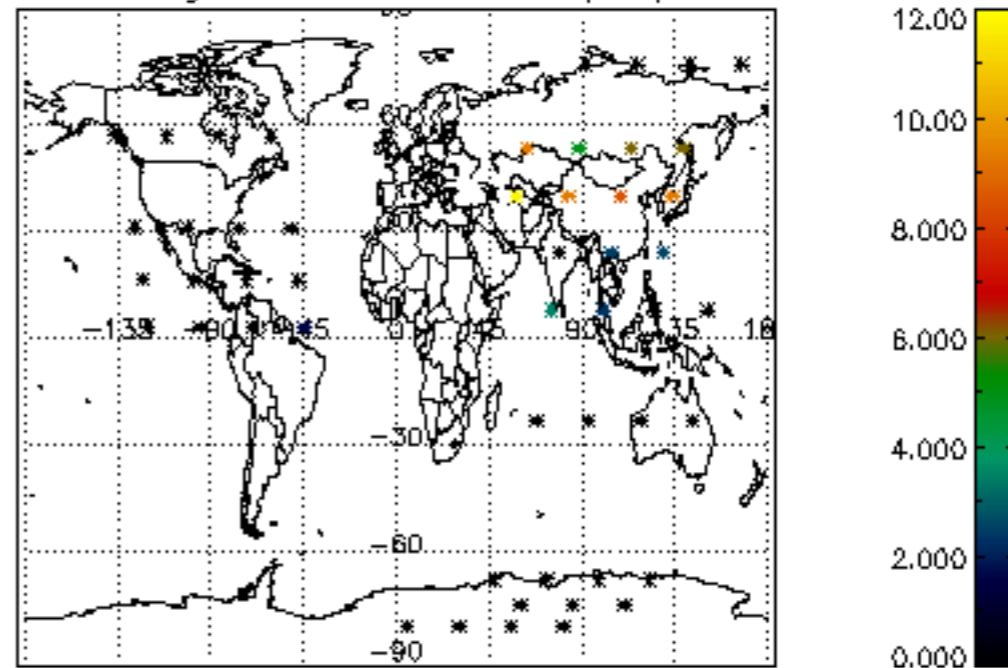
Percentage of datation errors per profile



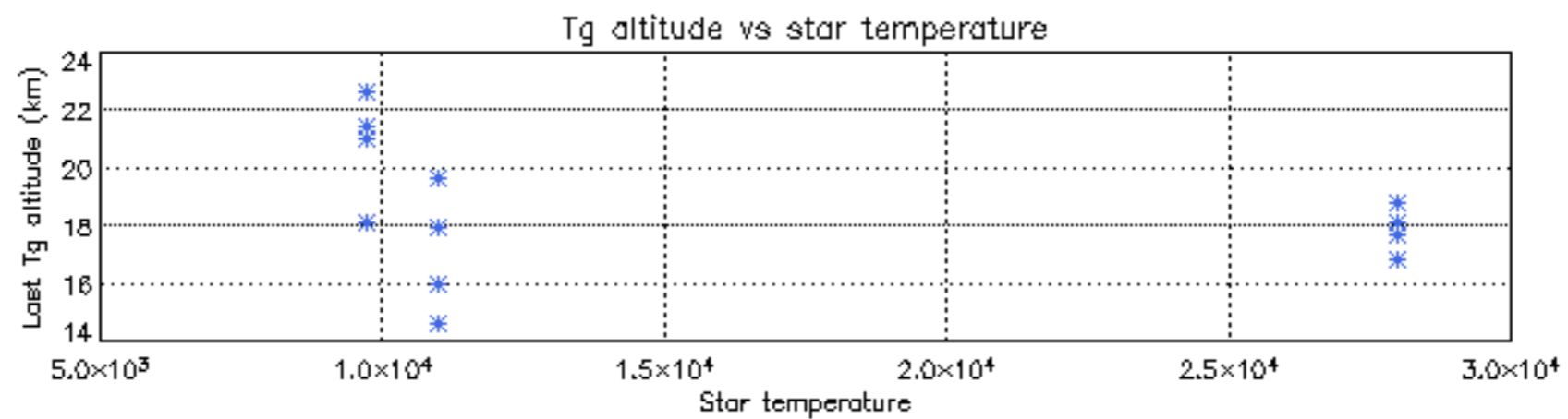
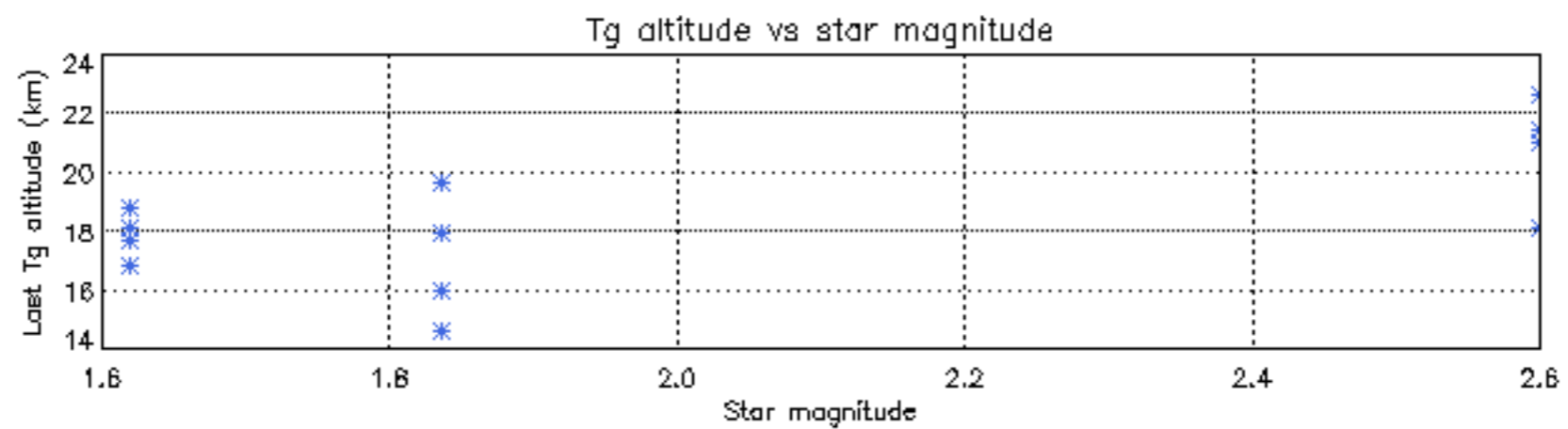
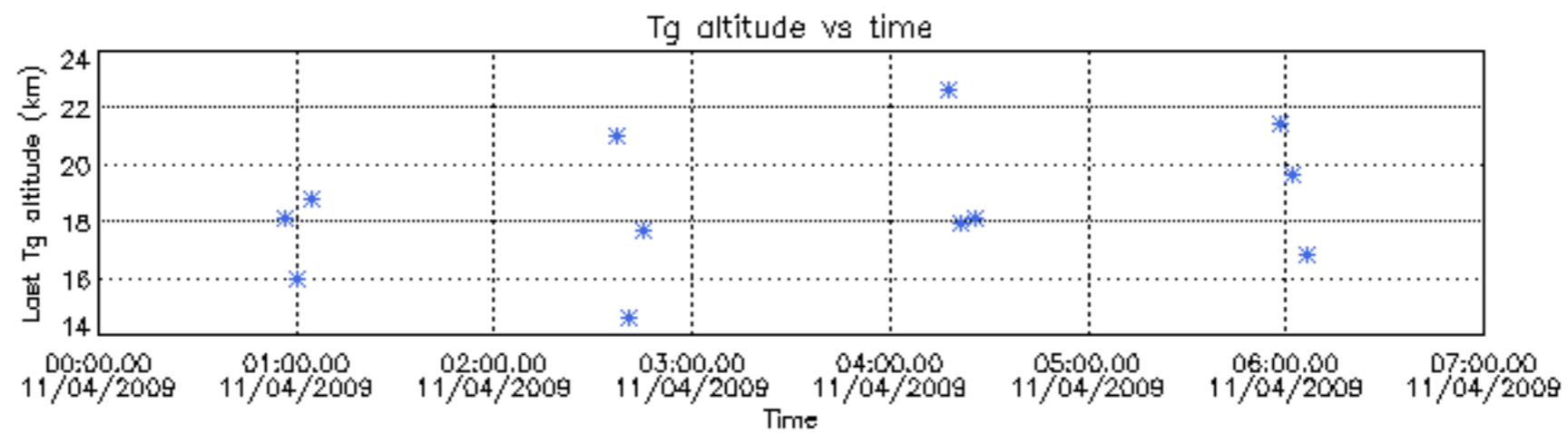
Percentage of star falling outside central band per profile



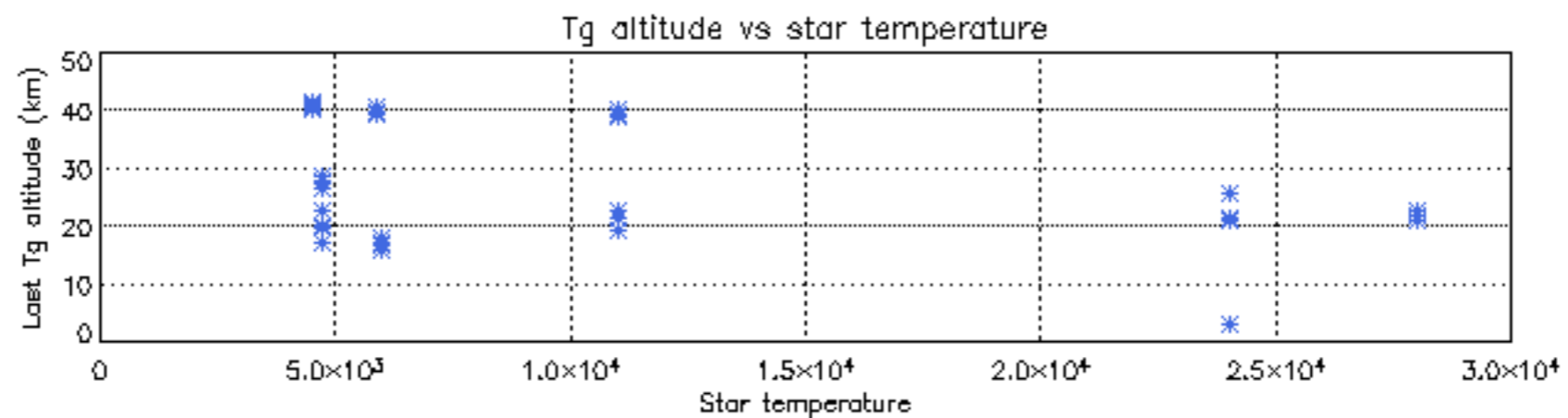
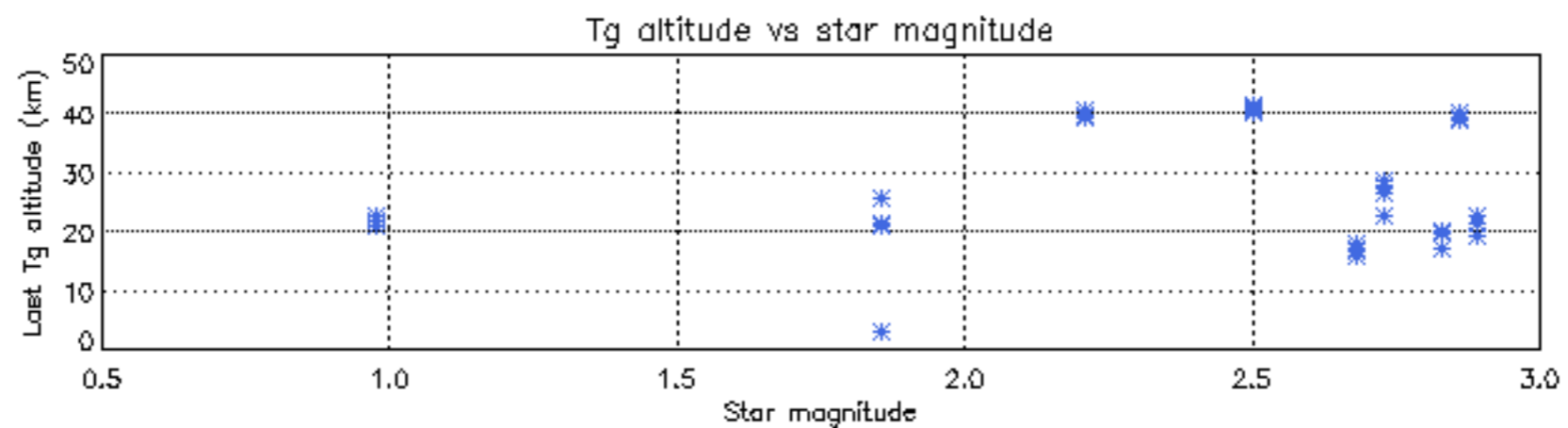
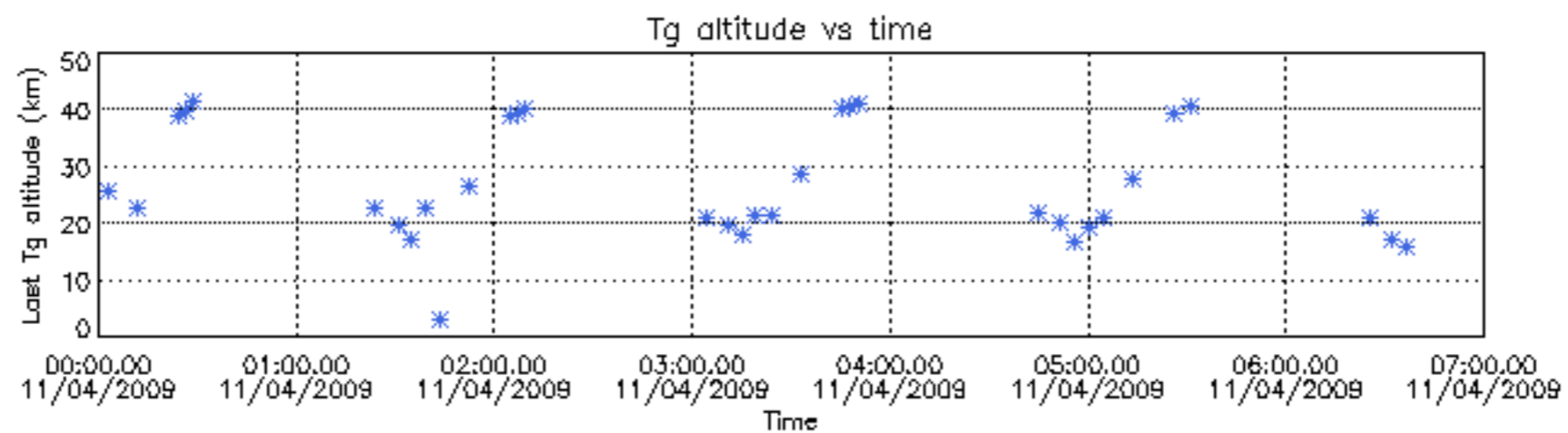
Percentage of saturation errors per profile

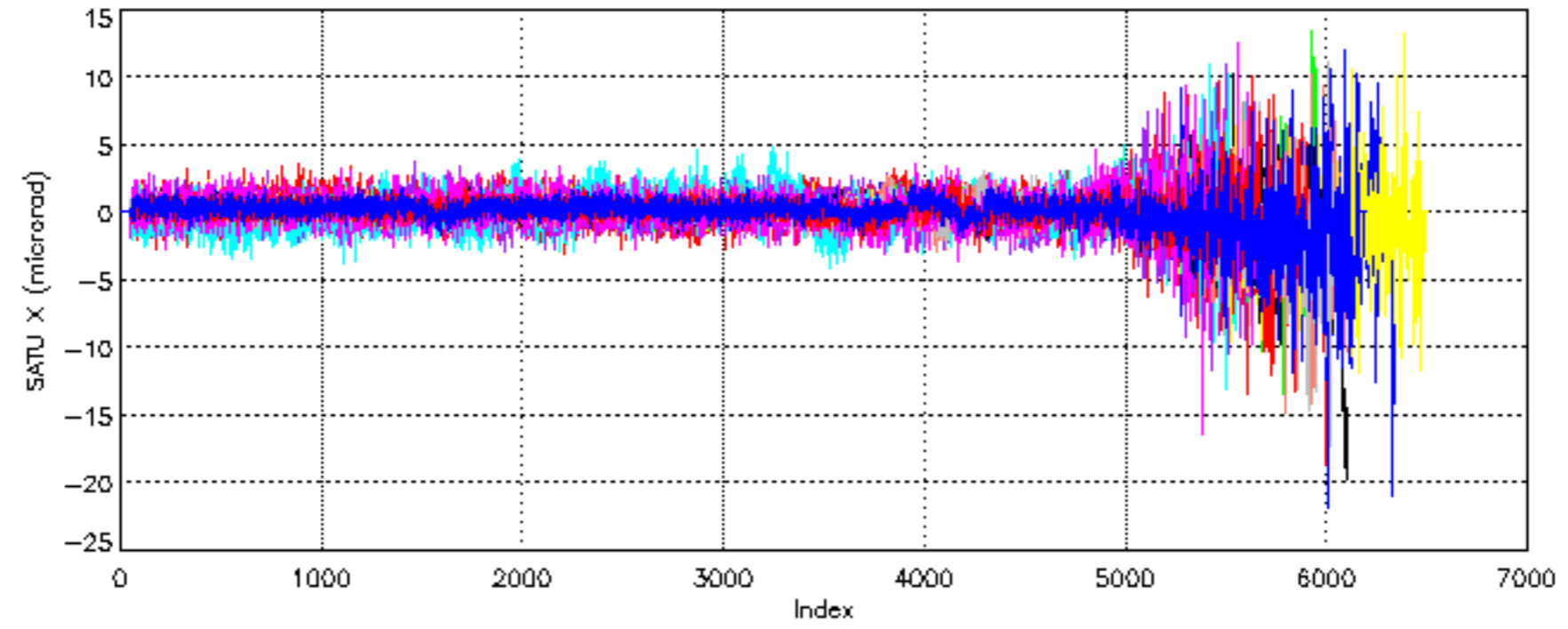


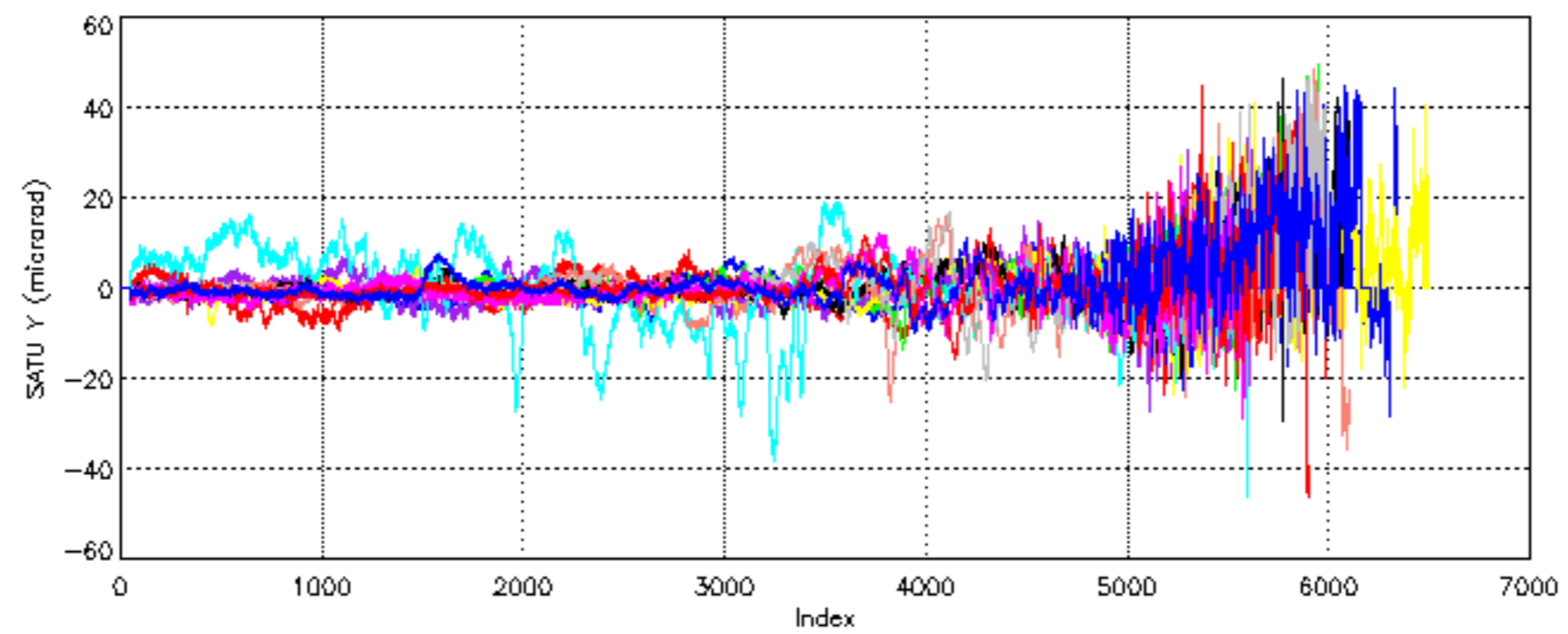
Tangent altitude at which the star is lost

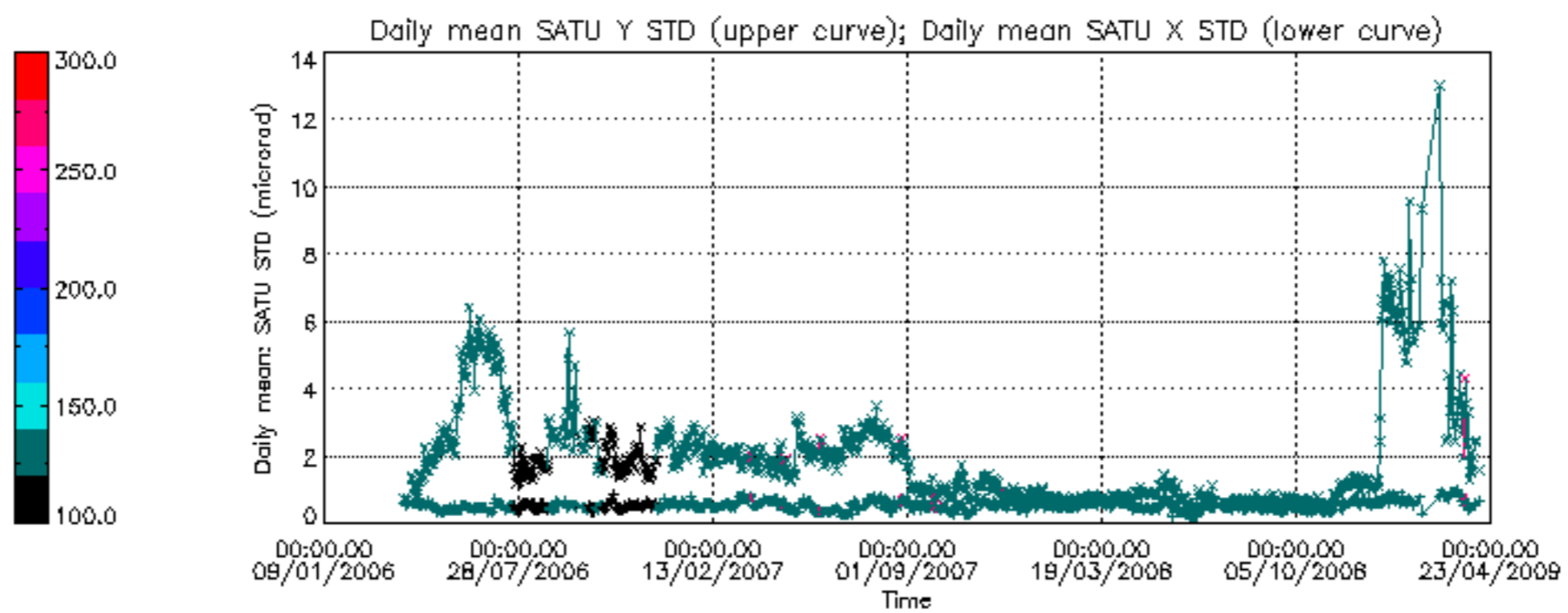


Tangent altitude at which the star is lost









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 5; 2671.2; 01-APR-2009 20:20:14; Bright; 45.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 90; 0;37056
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 7; 798.8; 01-APR-2009 21:29:37; Dark ; 49.0; 131; Gam Lup ; 2.80; 26000;occ; 98; 0;37057
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 4; 800.4; 02-APR-2009 00:50:51; Dark ; 51.5; 131; Gam Lup ; 2.80; 26000;occ; 103; 0;37059
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 14; 4197.2; 02-APR-2009 01:47:27; Bright; 46.0; 144; 18Del Cyg ; 2.86; 11000;occ; 92; 0;37059
 15; 4312.9; 02-APR-2009 01:49:23; Bright; 49.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 98; 0;37059
 16; 4436.0; 02-APR-2009 01:51:26; Bright; 61.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 122; 0;37059
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3; 2250.5; 25-APR-2009 14:16:50; Bright; 40.0; 111; 8Eta Boo ; 2.68; 6000;occ; 80; 0;37396
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6; 3260.0; 25-APR-2009 14:33:39; Bright; 47.5; 119; 14Eta Dra ; 2.73; 4700;occ; 95; 0;37396
7; 3849.8; 25-APR-2009 14:43:29; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;37396
8; 4165.0; 25-APR-2009 14:48:44; Bright; 56.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 112; 0;37396
9; 4976.4; 25-APR-2009 15:02:16; Dark ; 55.5; 61; 8Eps Peg ; 2.10; 3900;occ; 111; 0;37396
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14; 6811.1; 25-APR-2009 15:32:50; Dark ; 56.5; 25; 35Lam Sco ; 1.62; 28000;occ; 113; 0;37396
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7; 3258.3; 25-APR-2009 17:54:50; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;37398
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16; 7299.3; 30-APR-2009 14:43:30; Dark ; 34.0; 16; 21Alp Sco ; 1.02; 3000;occ; 68; 0;37467
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