

GOMOS Daily Report 24-APR-2009

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

[2. Summary of products arrived in PCF \(Product Control Facility\)](#)

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

[3. Plot of Spectrometers and Photometers temperatures](#)

[4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

[5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

[6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

[7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

[Level 2 products](#)

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	26APR2009 05:32:46
Data source version	GOMOS/5.00
Start time of products	24APR2009 00:00:08
Stop time of products	24APR2009 05:58:54
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)

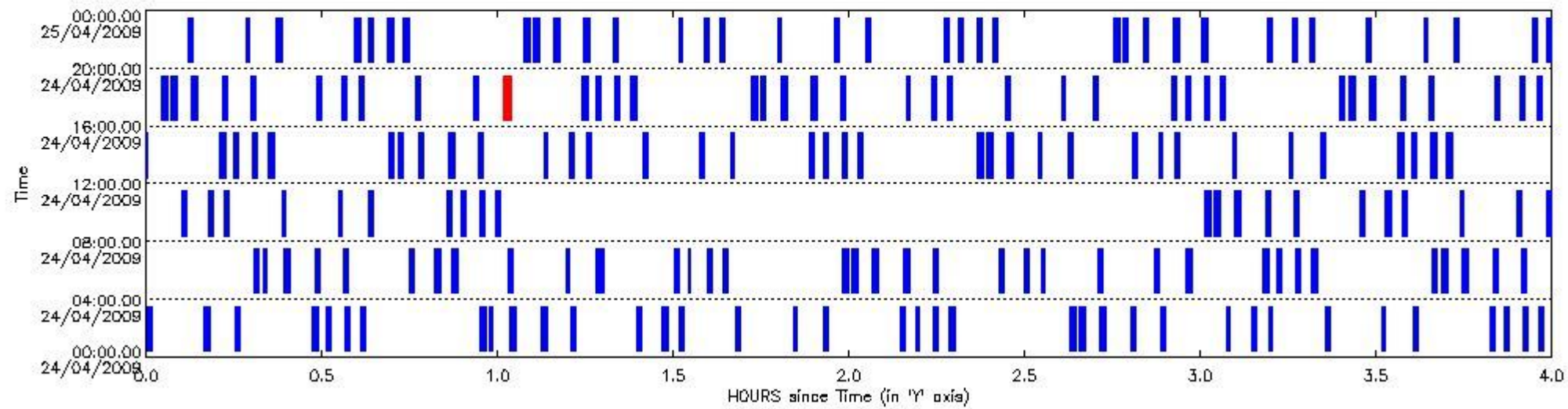
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

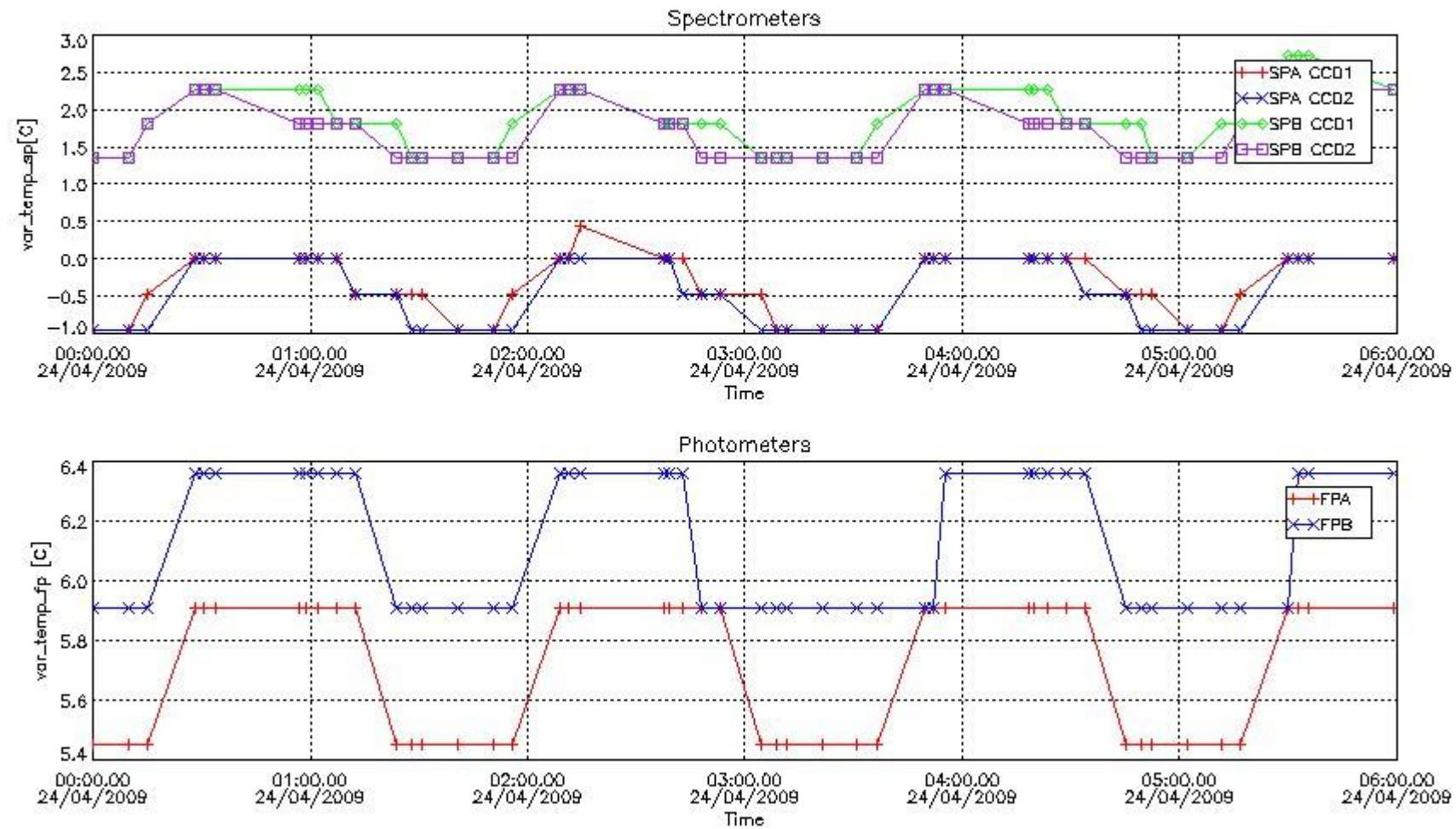
UTC start time	Star name	Star ID	Orbit
24-APR-2009 17:01:02	50AlpCyg	19	37383

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_1PNPDE20090424_000008_000000552078_00245_37373_6827.N1	24-APR-2009 00:00:08	Bright	54.500	119	14Eta Dra	2.7270	4700.0	109	37373	No
2	GOM_TRA_1PNPDE20090424_000948_000000582078_00245_37373_6828.N1	24-APR-2009 00:09:48	Bright	57.500	89	5Alp Cep	2.4510	8000.0	115	37373	No
3	GOM_TRA_1PNPDE20090424_001504_000000542078_00245_37373_6829.N1	24-APR-2009 00:15:04	Bright	53.500	19	50Alp Cyg	1.2460	10500.	107	37373	No
4	GOM_TRA_1PNPDE20090424_002815_000000592078_00245_37373_6830.N1	24-APR-2009 00:28:15	Dark	59.000	61	8Eps Peg	2.1000	3900.0	118	37373	No
5	GOM_TRA_1PNPDE20090424_003042_000000452078_00245_37373_6831.N1	24-APR-2009 00:30:42	Dark	45.000	162	34Alp Aqr	2.9440	5350.0	90	37373	No
6	GOM_TRA_1PNPDE20090424_003350_000000532078_00245_37373_6976.N1	24-APR-2009 00:33:50	Dark	53.000	154	22Bet Aqr	2.8990	5700.0	106	37373	No
7	GOM_TRA_1PNPDE20090424_005704_000000532078_00246_37374_6977.N1	24-APR-2009 00:57:04	Straylight	52.500	40	The Sco	1.8590	7100.0	105	37374	No
8	GOM_TRA_1PNPDE20090424_005838_000000212078_00246_37374_6978.N1	24-APR-2009 00:58:38	Straylight	21.000	25	35Lam Sco	1.6200	28000.	42	37374	No
9	GOM_TRA_1PNPDE20090424_010210_000000642078_00246_37374_6979.N1	24-APR-2009 01:02:10	Straylight	64.000	75	26Eps Sco	2.2910	4250.0	128	37374	No
10	GOM_TRA_1PNPDE20090424_010728_000000562078_00246_37374_6980.N1	24-APR-2009 01:07:28	Twilight_stray	56.000	158	6Pi Sco	2.9060	28000.	112	37374	No

11	GOM_TRA_1PNPDE20090424_011229_000000492078_00246_37374_6981.N1	24-APR-2009 01:12:29	Bright	49.000	122	9Alp2Lib	2.7470	9700.0	98	37374	No
12	GOM_TRA_1PNPDE20090424_012345_000000422078_00246_37374_6982.N1	24-APR-2009 01:23:45	Bright	41.500	111	8Eta Boo	2.6800	6000.0	83	37374	No
13	GOM_TRA_1PNPDE20090424_012807_000000522078_00246_37374_6983.N1	24-APR-2009 01:28:07	Bright	52.000	83		2.3780	11000.	104	37374	No
14	GOM_TRA_1PNPDE20090424_013059_000000442078_00246_37374_6984.N1	24-APR-2009 01:30:59	Bright	44.000	180	27Gam Boo	3.0400	8000.0	88	37374	No
15	GOM_TRA_1PNPDE20090424_014043_000000482078_00246_37374_6985.N1	24-APR-2009 01:40:43	Bright	48.000	119	14Eta Dra	2.7270	4700.0	96	37374	No
16	GOM_TRA_1PNPDE20090424_015023_000000382078_00246_37374_6986.N1	24-APR-2009 01:50:23	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	37374	No
17	GOM_TRA_1PNPDE20090424_015539_000000452078_00246_37374_6987.N1	24-APR-2009 01:55:39	Bright	45.000	19	50Alp Cyg	1.2460	10500.	90	37374	No
18	GOM_TRA_1PNPDE20090424_020851_000000442078_00246_37374_7117.N1	24-APR-2009 02:08:51	Dark	43.500	61	8Eps Peg	2.1000	3900.0	87	37374	No
19	GOM_TRA_1PNPDE20090424_021119_000000402078_00246_37374_7118.N1	24-APR-2009 02:11:19	Dark	40.000	162	34Alp Aqr	2.9440	5350.0	80	37374	No
20	GOM_TRA_1PNPDE20090424_021427_000000472078_00246_37374_7119.N1	24-APR-2009 02:14:27	Dark	47.000	154	22Bet Aqr	2.8990	5700.0	94	37374	No
21	GOM_TRA_1PNPDE20090424_023741_000000592078_00247_37375_7120.N1	24-APR-2009 02:37:41	Straylight	59.000	40	The Sco	1.8590	7100.0	118	37375	No
22	GOM_TRA_1PNPDE20090424_023915_000000642078_00247_37375_7121.N1	24-APR-2009 02:39:15	Straylight	63.500	25	35Lam Sco	1.6200	28000.	127	37375	No
23	GOM_TRA_1PNPDE20090424_024247_000000692078_00247_37375_7122.N1	24-APR-2009 02:42:47	Straylight	68.500	75	26Eps Sco	2.2910	4250.0	137	37375	No
24	GOM_TRA_1PNPDE20090424_024804_000000562078_00247_37375_7123.N1	24-APR-2009 02:48:04	Twilight_and_stray	56.000	158	6Pi Sco	2.9060	28000.	112	37375	No
25	GOM_TRA_1PNPDE20090424_025305_000000532078_00247_37375_7124.N1	24-APR-2009 02:53:05	Bright	52.500	122	9Alp2Lib	2.7470	9700.0	105	37375	No
26	GOM_TRA_1PNPDE20090424_030421_000000432078_00247_37375_7125.N1	24-APR-2009 03:04:21	Bright	42.500	111	8Eta Boo	2.6800	6000.0	85	37375	No
27	GOM_TRA_1PNPDE20090424_030842_000000502078_00247_37375_7126.N1	24-APR-2009 03:08:42	Bright	49.500	83		2.3780	11000.	99	37375	No
28	GOM_TRA_1PNPDE20090424_031134_000000442078_00247_37375_7127.N1	24-APR-2009 03:11:34	Bright	43.500	180	27Gam Boo	3.0400	8000.0	87	37375	No
29	GOM_TRA_1PNPDE20090424_032119_000000462078_00247_37375_7128.N1	24-APR-2009 03:21:19	Bright	45.500	119	14Eta Dra	2.7270	4700.0	91	37375	No
30	GOM_TRA_1PNPDE20090424_033059_000000372078_00247_37375_7245.N1	24-APR-2009 03:30:59	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	37375	No
31	GOM_TRA_1PNPDE20090424_033615_000000572078_00247_37375_7246.N1	24-APR-2009 03:36:15	Bright	57.000	19	50Alp Cyg	1.2460	10500.	114	37375	No
32	GOM_TRA_1PNPDE20090424_034928_000000562078_00247_37375_7247.N1	24-APR-2009 03:49:28	Dark	56.000	61	8Eps Peg	2.1000	3900.0	112	37375	No
33	GOM_TRA_1PNPDE20090424_035155_000000492078_00247_37375_7248.N1	24-APR-2009 03:51:55	Dark	48.500	162	34Alp Aqr	2.9440	5350.0	97	37375	No
34	GOM_TRA_1PNPDE20090424_035504_000000532078_00247_37375_7249.N1	24-APR-2009 03:55:04	Dark	52.500	154	22Bet Aqr	2.8990	5700.0	105	37375	No
35	GOM_TRA_1PNPDE20090424_041818_000000502078_00248_37376_7250.N1	24-APR-2009 04:18:18	Straylight	49.500	40	The Sco	1.8590	7100.0	99	37376	No
36	GOM_TRA_1PNPDE20090424_041952_000000352078_00248_37376_7251.N1	24-APR-2009 04:19:52	Straylight	35.000	25	35Lam Sco	1.6200	28000.	70	37376	No
37	GOM_TRA_1PNPDE20090424_042324_000000642078_00248_37376_7252.N1	24-APR-2009 04:23:24	Straylight	63.500	75	26Eps Sco	2.2910	4250.0	127	37376	No
38	GOM_TRA_1PNPDE20090424_042841_000000572078_00248_37376_7253.N1	24-APR-2009 04:28:41	Twilight_and_stray	57.000	158	6Pi Sco	2.9060	28000.	114	37376	No
39	GOM_TRA_1PNPDE20090424_043341_000000492078_00248_37376_7254.N1	24-APR-2009 04:33:41	Bright	48.500	122	9Alp2Lib	2.7470	9700.0	97	37376	No
40	GOM_TRA_1PNPDE20090424_044457_000000412078_00248_37376_7255.N1	24-APR-2009 04:44:57	Bright	41.000	111	8Eta Boo	2.6800	6000.0	82	37376	No
41	GOM_TRA_1PNPDE20090424_044918_000000512078_00248_37376_7256.N1	24-APR-2009 04:49:18	Bright	50.500	83		2.3780	11000.	101	37376	No
42	GOM_TRA_1PNPDE20090424_045209_000000662078_00248_37376_7257.N1	24-APR-2009 04:52:09	Bright	66.000	180	27Gam Boo	3.0400	8000.0	132	37376	No
43	GOM_TRA_1PNPDE20090424_050154_000000452078_00248_37376_7258.N1	24-APR-2009 05:01:54	Bright	44.500	119	14Eta Dra	2.7270	4700.0	89	37376	No
44	GOM_TRA_1PNPDE20090424_051135_000000372078_00248_37376_7481.N1	24-APR-2009 05:11:35	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	37376	No
45	GOM_TRA_1PNPDE20090424_051651_000000722078_00248_37376_7482.N1	24-APR-2009 05:16:51	Bright	72.000	19	50Alp Cyg	1.2460	10500.	144	37376	No
46	GOM_TRA_1PNPDE20090424_053004_000000582078_00248_37376_7483.N1	24-APR-2009 05:30:04	Dark	58.000	61	8Eps Peg	2.1000	3900.0	116	37376	No
47	GOM_TRA_1PNPDE20090424_053232_000000252078_00248_37376_7484.N1	24-APR-2009 05:32:32	Dark	24.500	162	34Alp Aqr	2.9440	5350.0	49	37376	No
48	GOM_TRA_1PNPDE20090424_053541_000000542078_00248_37376_7485.N1	24-APR-2009 05:35:41	Dark	54.000	154	22Bet Aqr	2.8990	5700.0	108	37376	No
49	GOM_TRA_1PNPDE20090424_055854_000000542078_00249_37377_7486.N1	24-APR-2009 05:58:54	Straylight	53.500	40	The Sco	1.8590	7100.0	107	37377	No

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



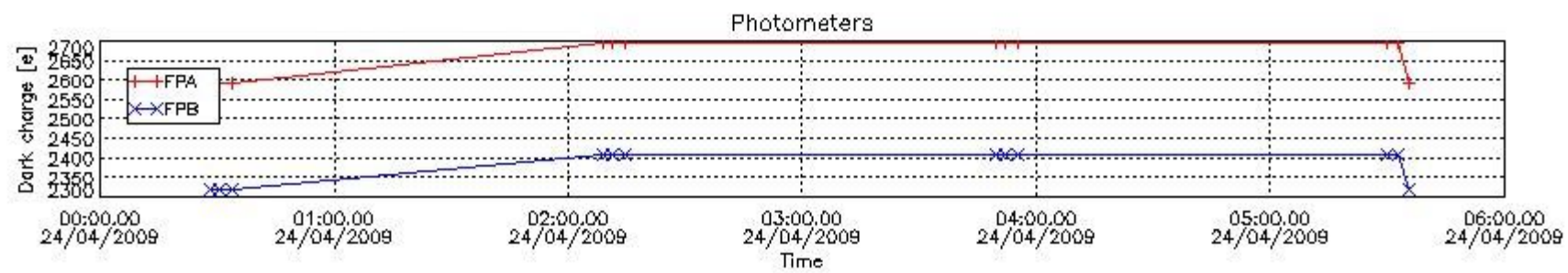
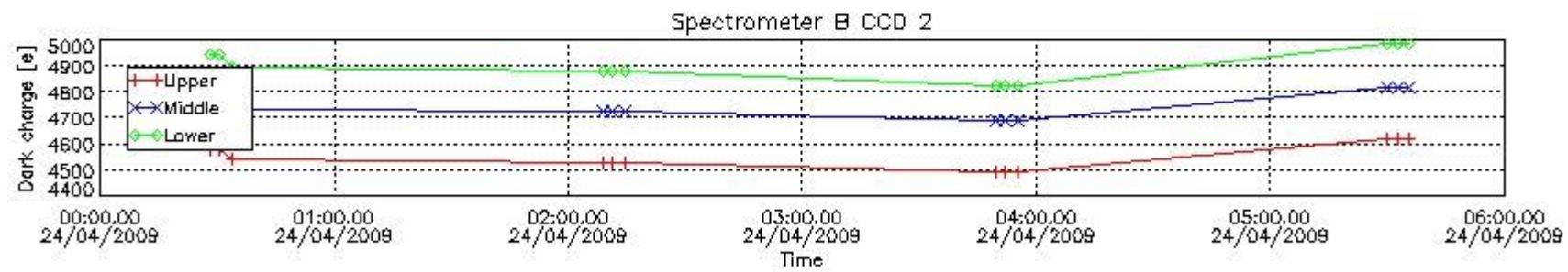
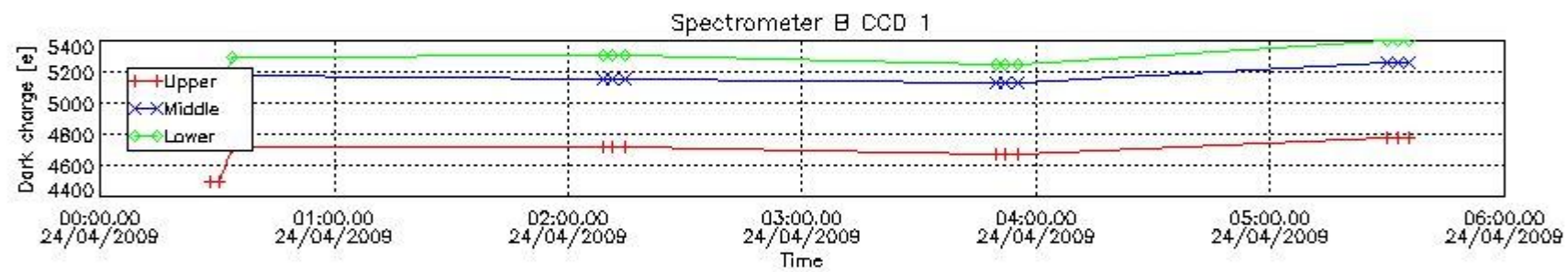
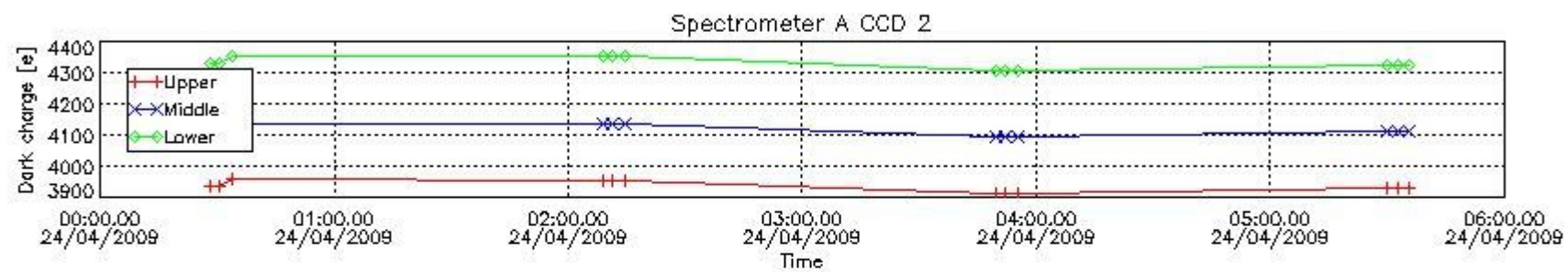
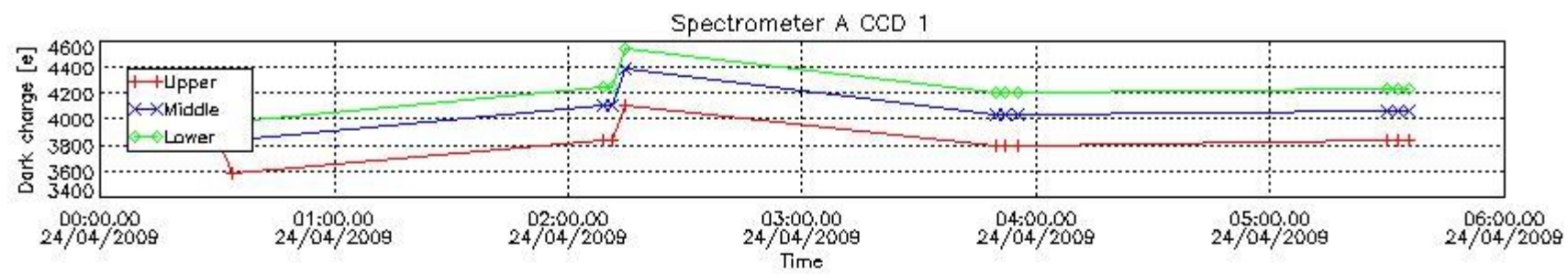
4. Overview of dark signal processing per product

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



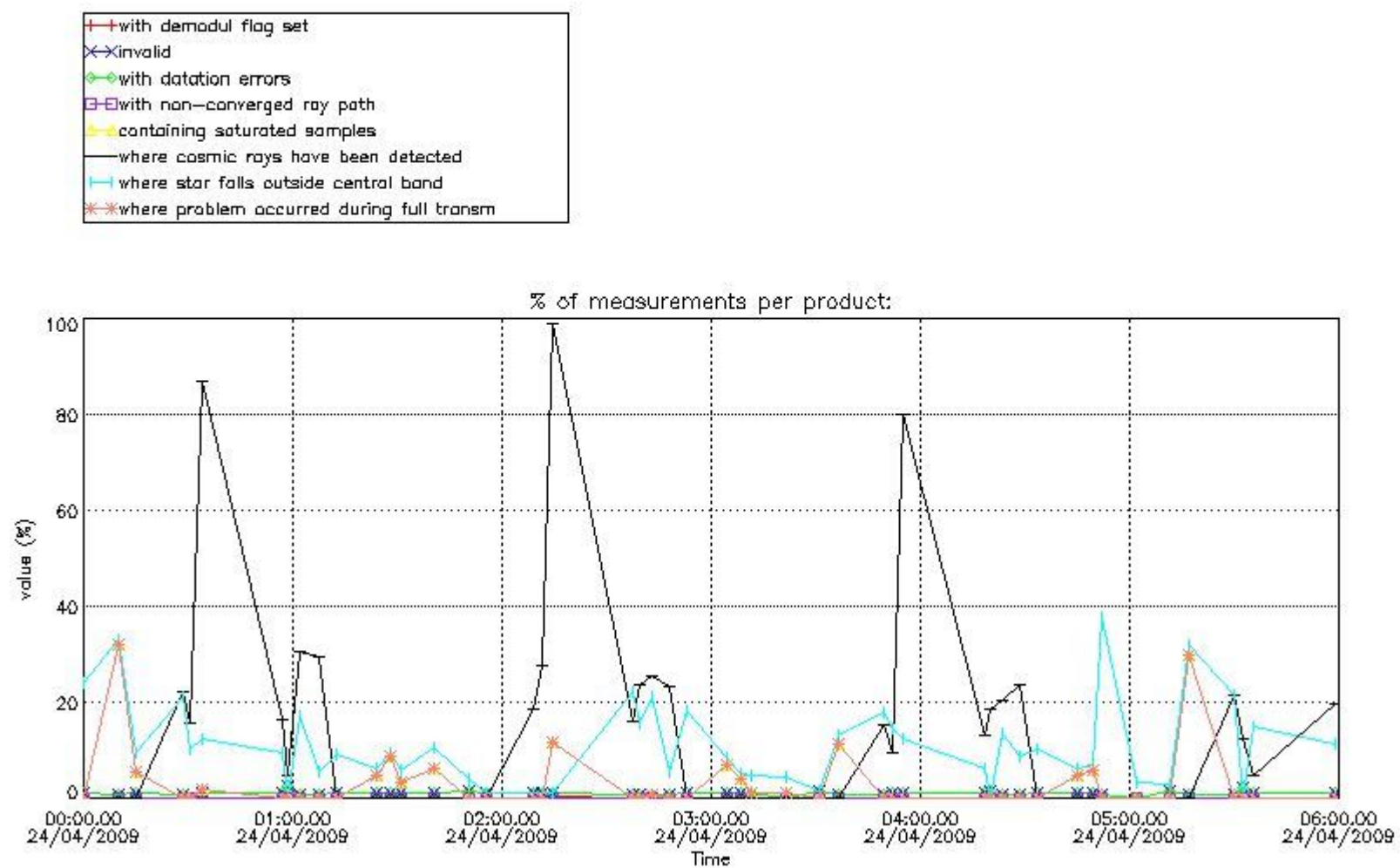
5. Demodulation flag and quality information monitoring

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.

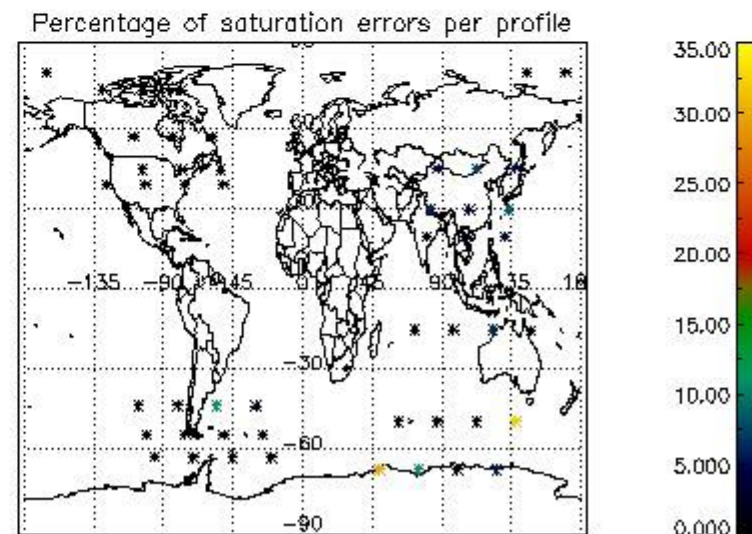
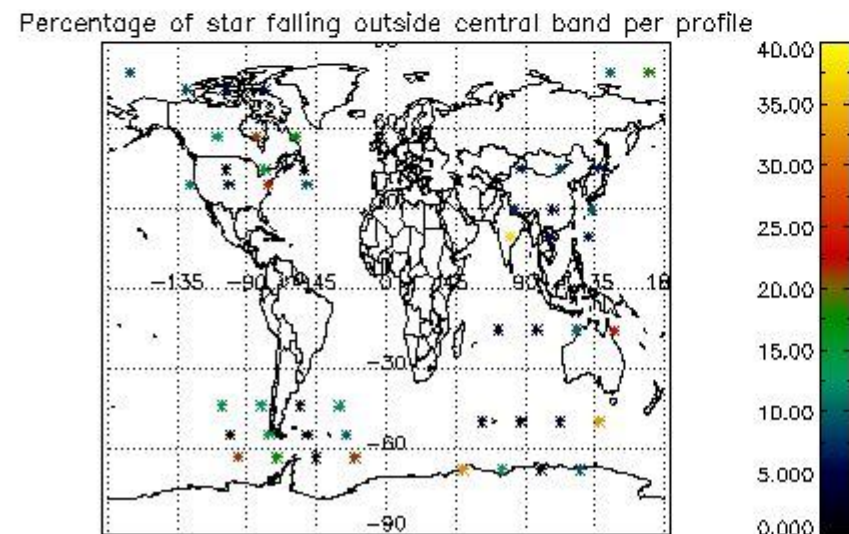
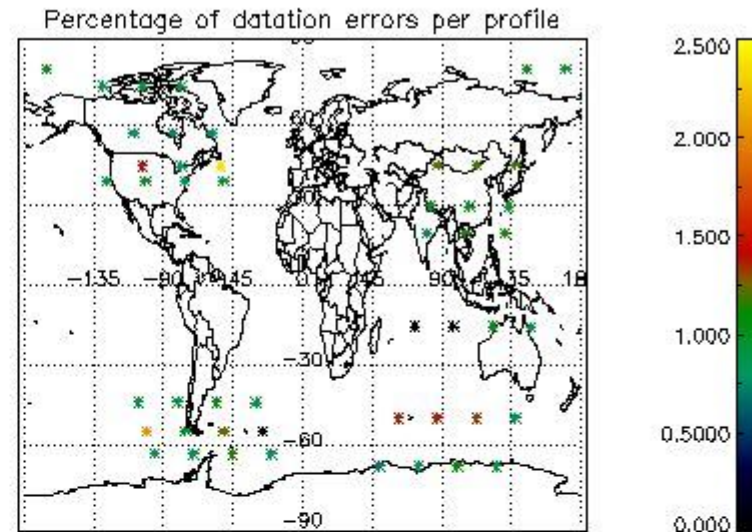
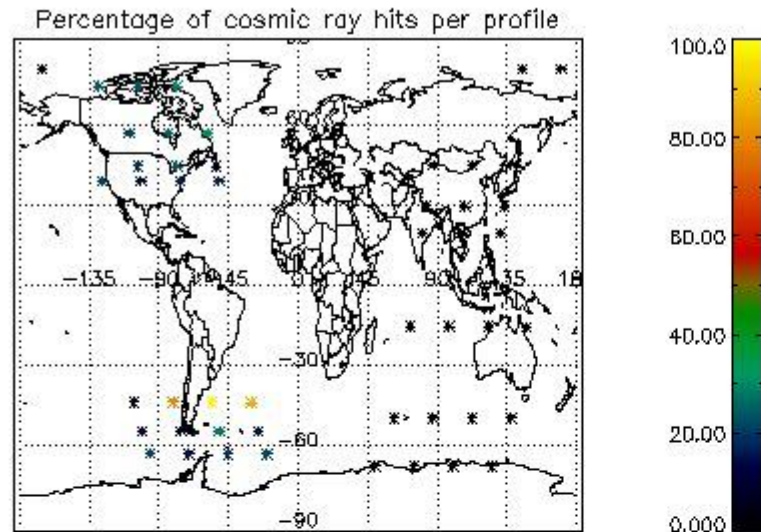
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	34.6939 %
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)



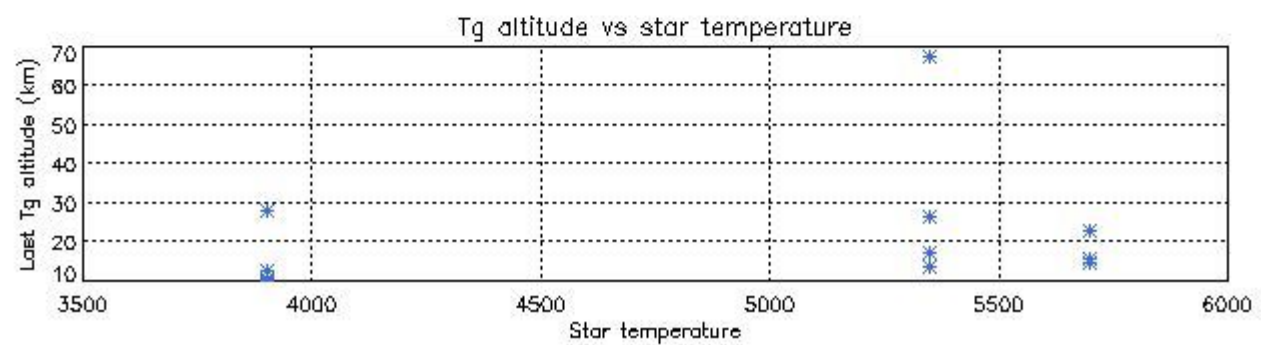
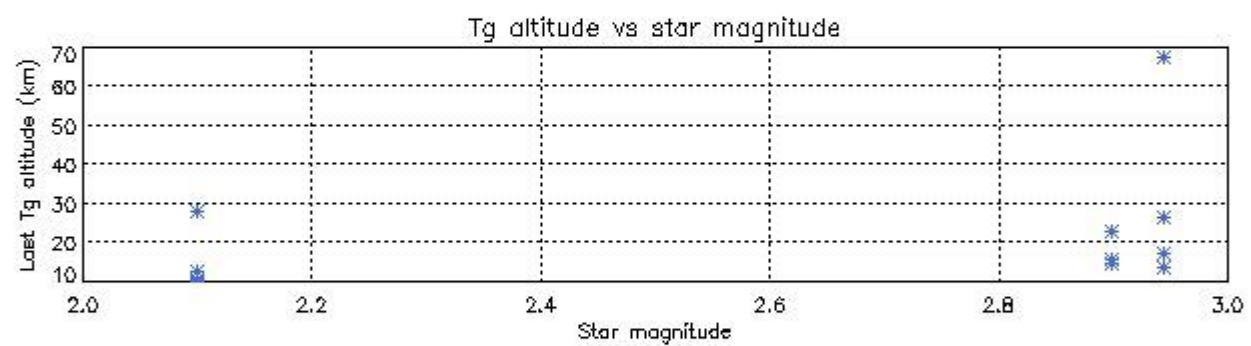
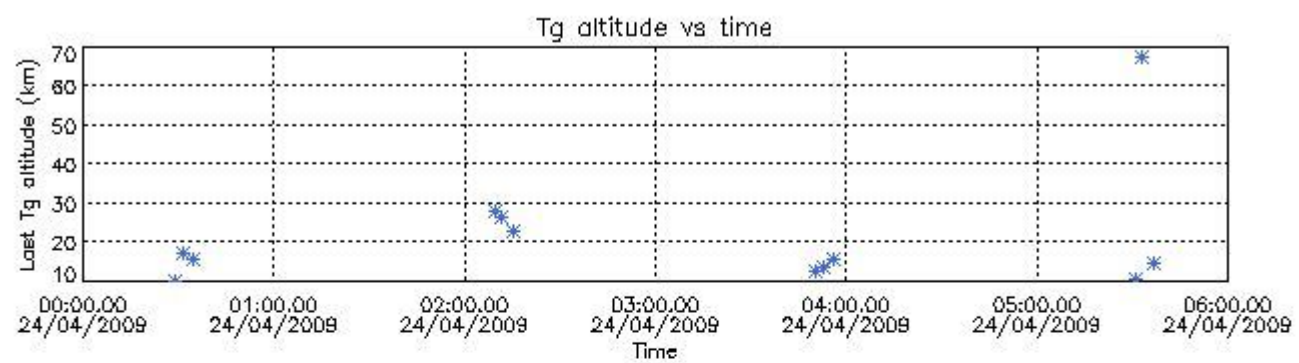
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	21.132	18.815	NaN
St. deviation:	15.761	7.5659	NaN
Maximum:	67.622	32.240	NaN
Minimum:	10.013	3.0589	NaN
Number of data:	12.000	24.000	NaN

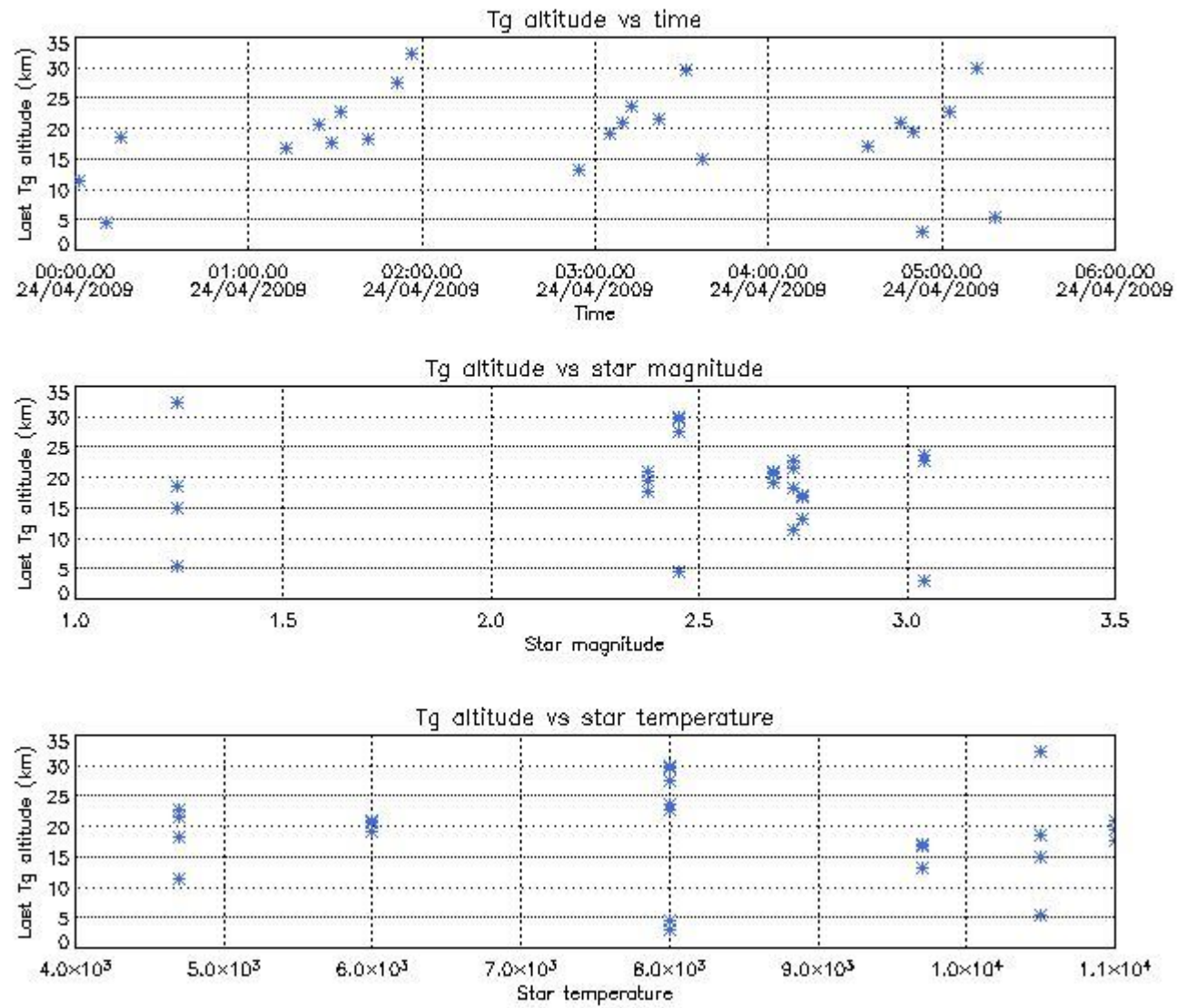
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

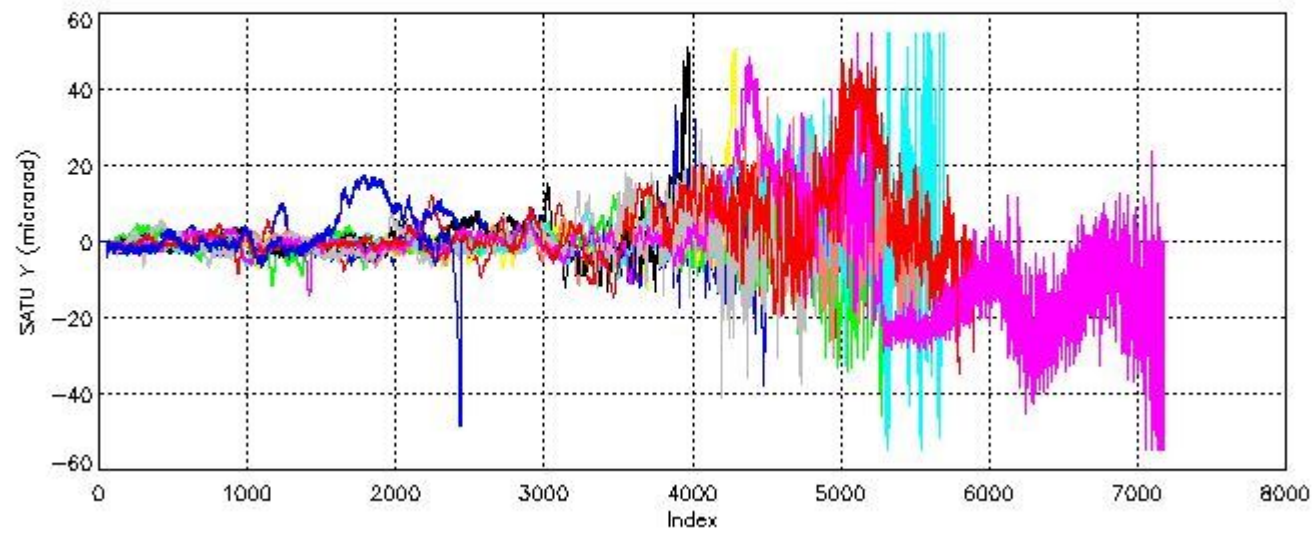
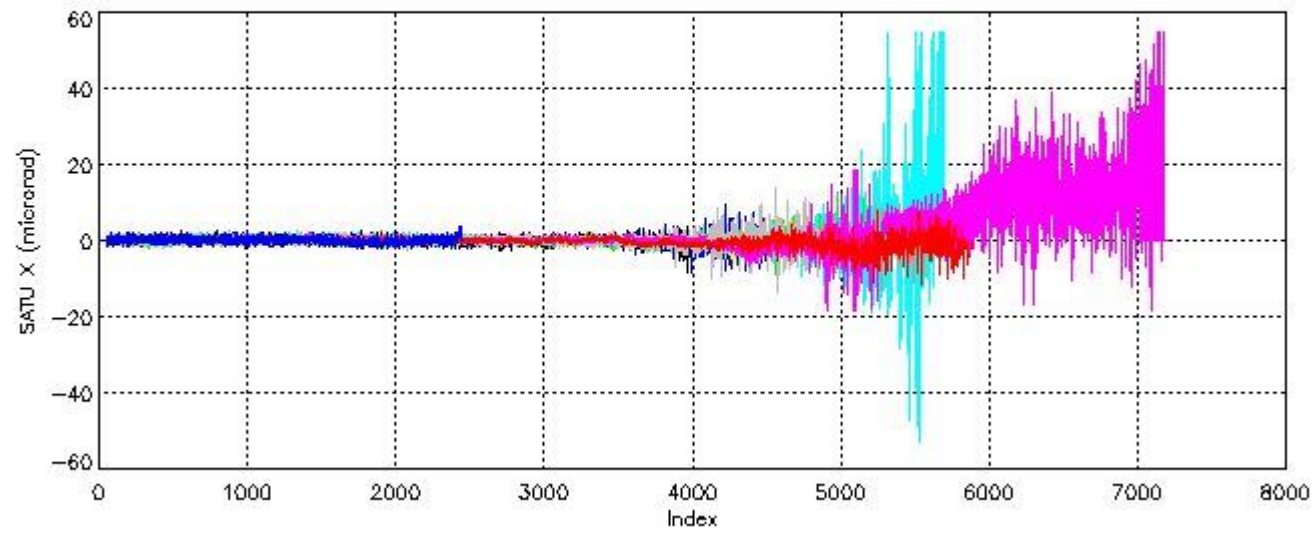


7. Star Acquisition and Tracking Unit (SATU)

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:	0.18799	-0.50186	0.35844	-0.93212
St. deviation:	0.55563	1.6121	0.82979	1.5289
Maximum:	2.8000	5.8000	6.6000	8.2000
Minimum:	-2.1000	-11.600	-4.9000	-15.000

Number of data:	13600.	13600.	25850.	25850.
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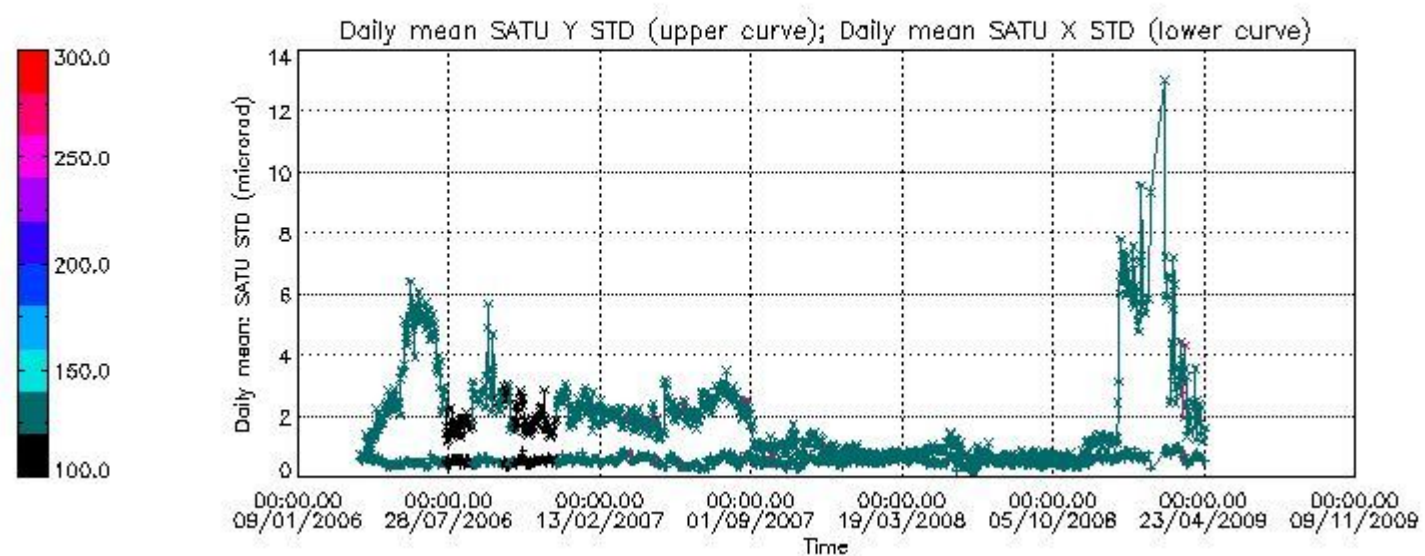
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

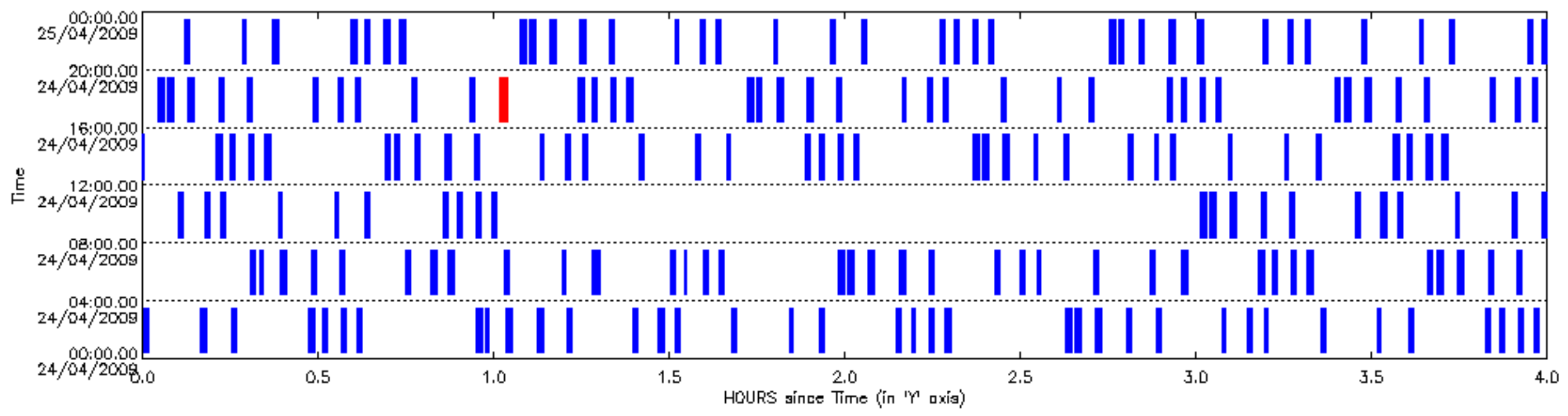
Lower curve: STD of SATU X axis

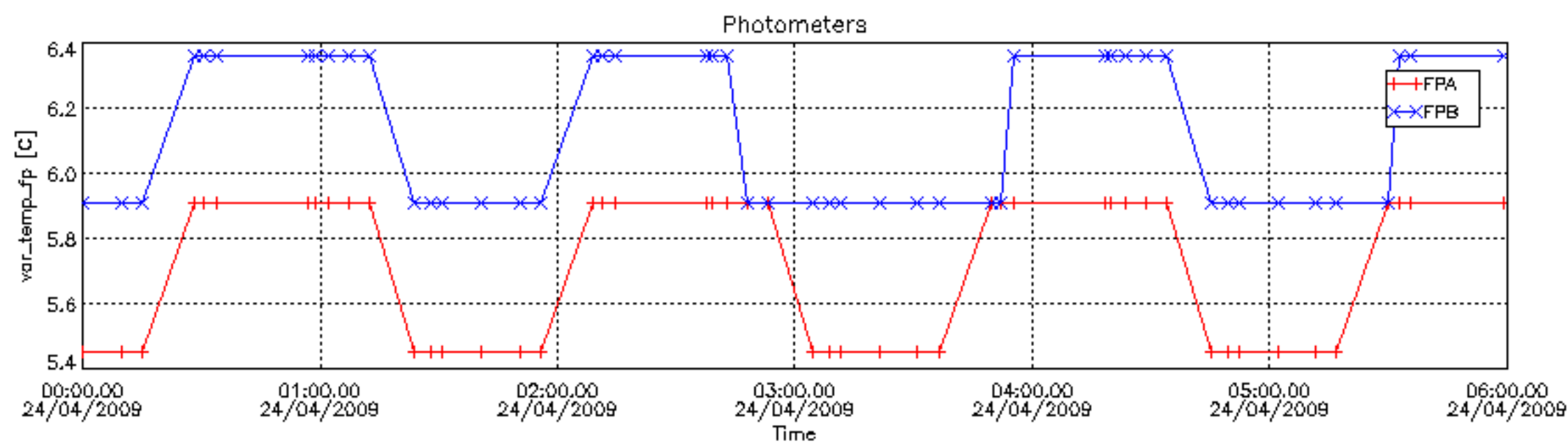
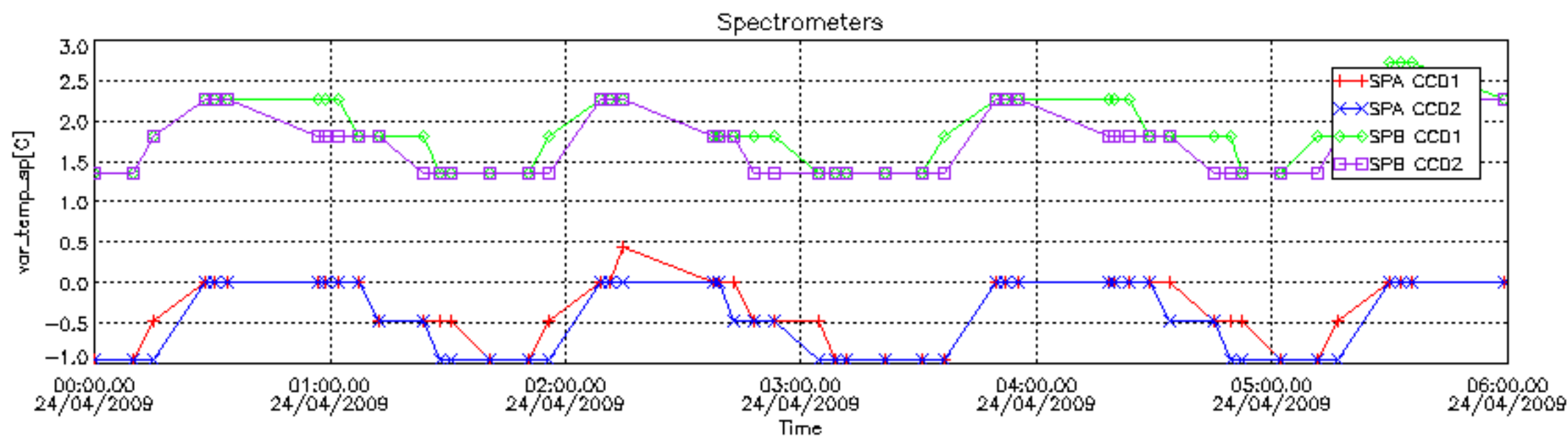


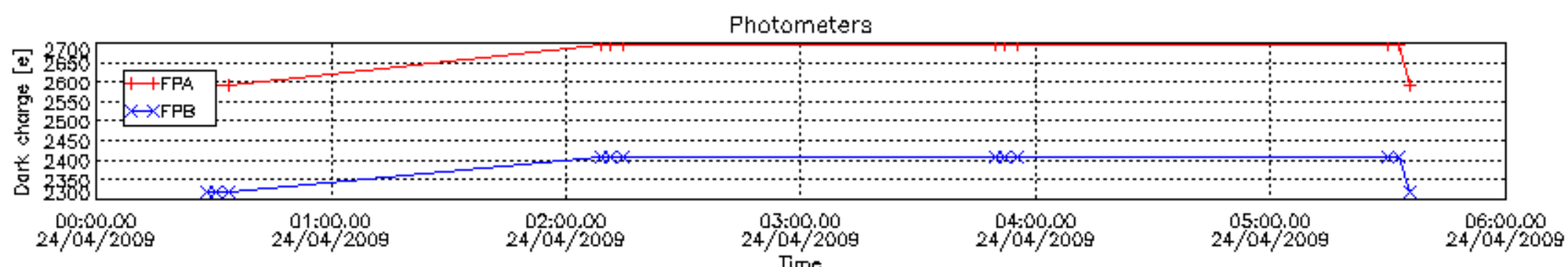
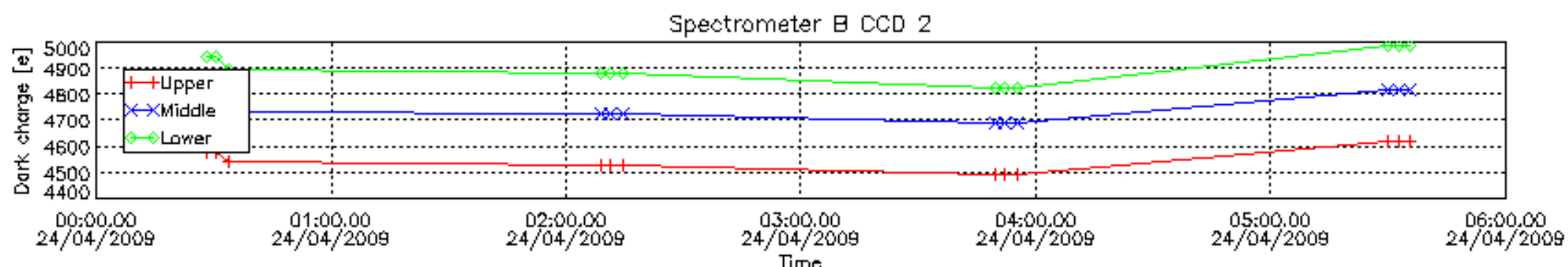
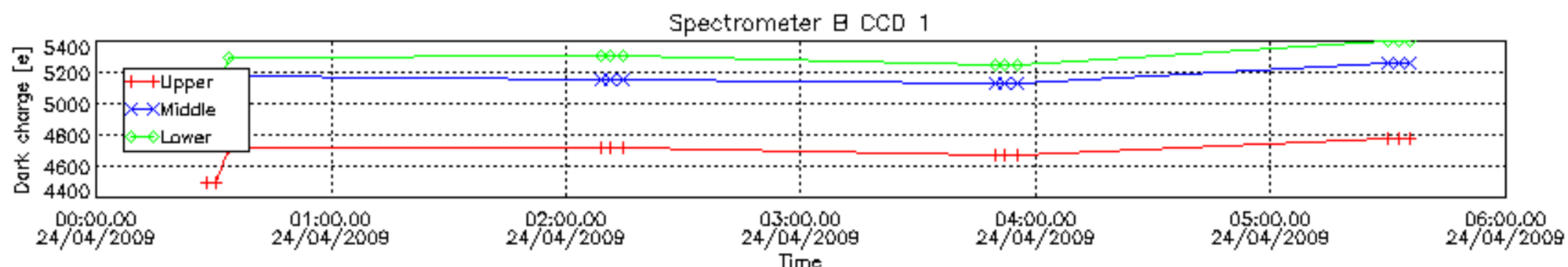
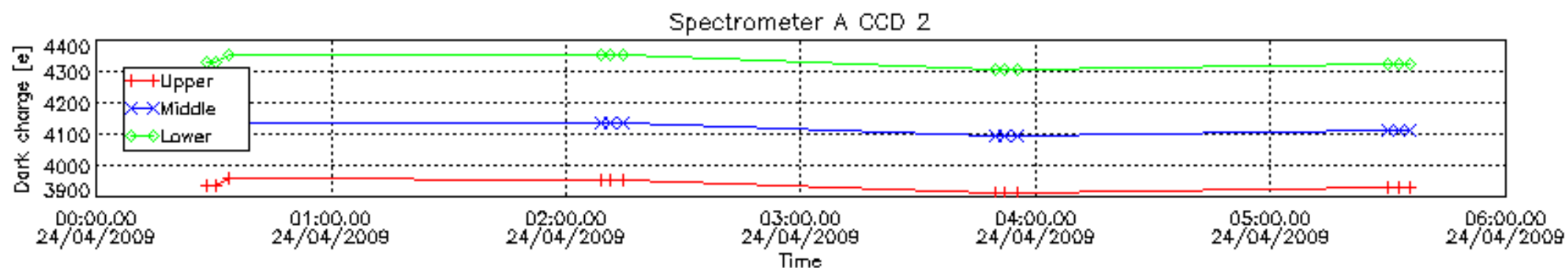
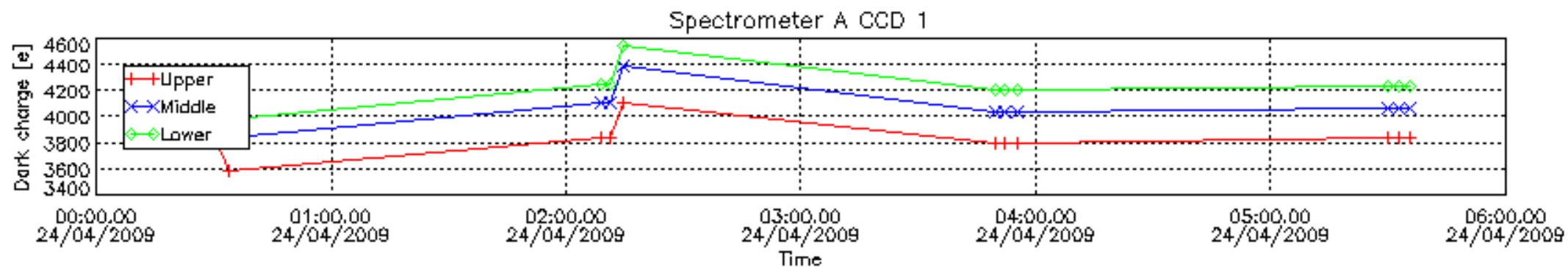
8. Auxiliary Data Files used for the production reported in section 2.4

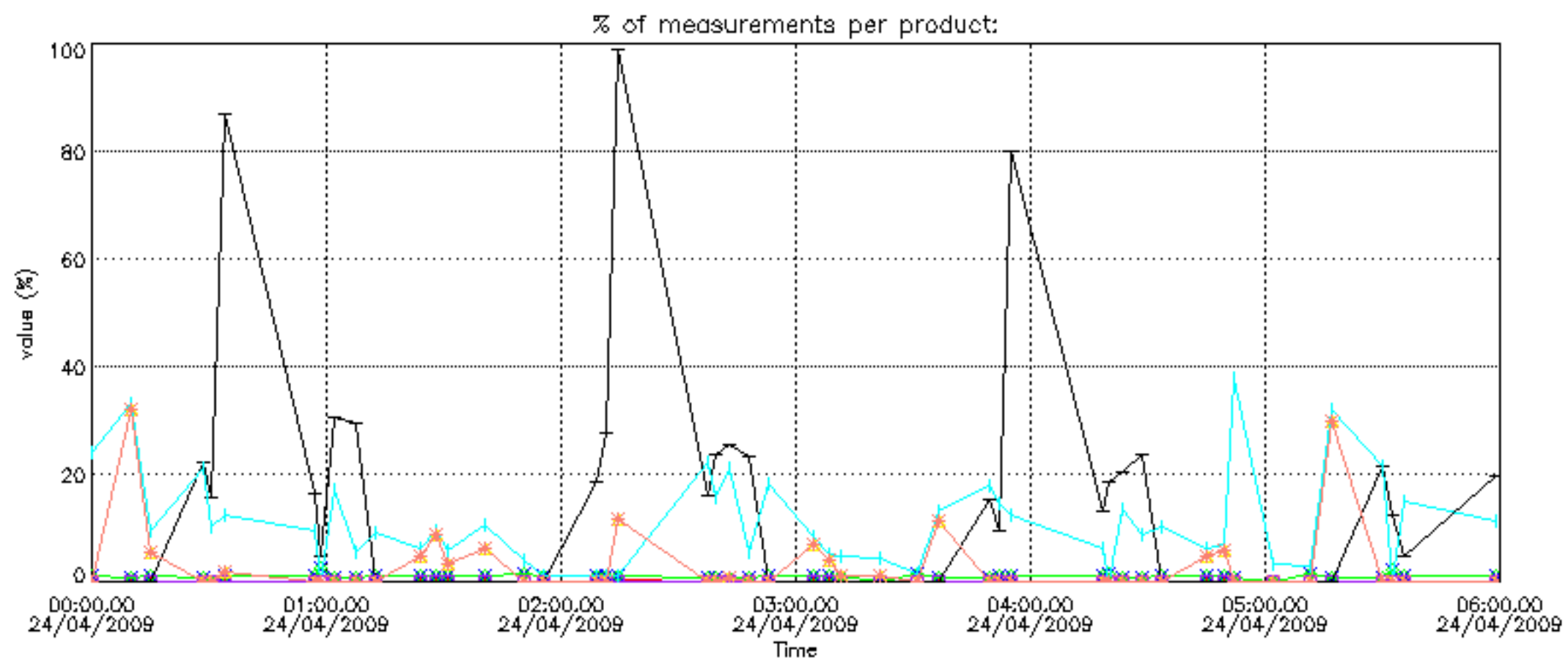
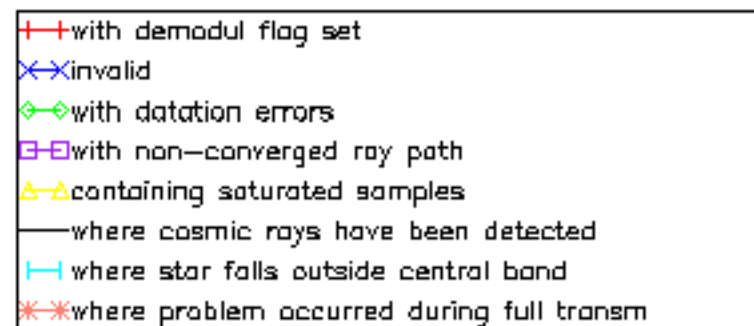
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	24-APR-2009 00:00:08
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090422_132334_20090420_000000_20100101_000000	1	24-APR-2009 00:00:08
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	24-APR-2009 00:00:08
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	24-APR-2009 00:00:08
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	24-APR-2009 00:00:08
ECMWF_FILE	AUX_ECF_AXNECM20090423_064113_20090423_210000_20090424_090000	1	24-APR-2009 00:00:08
ECMWF_FILE	AUX_ECF_AXNECM20090423_184112_20090424_030000_20090424_150000	30	24-APR-2009 03:30:59
OPTIONAL_ECMWF_FILE	MISSING	1	24-APR-2009 00:00:08
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090423_210049_000060572078_00243_37371_7811.N1	1	24-APR-2009 00:00:08
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090423_224705_000057382078_00244_37372_7812.N1	6	24-APR-2009 00:33:50
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090424_002802_000057382078_00245_37373_7813.N1	18	24-APR-2009 02:08:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090424_020341_000044632078_00246_37374_7814.N1	30	24-APR-2009 03:30:59
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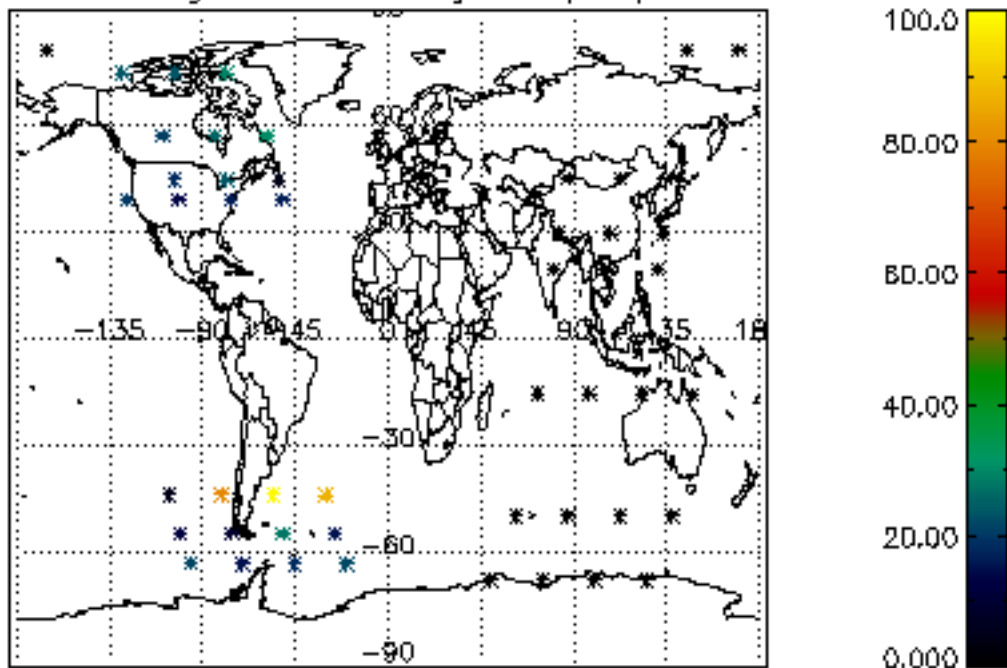




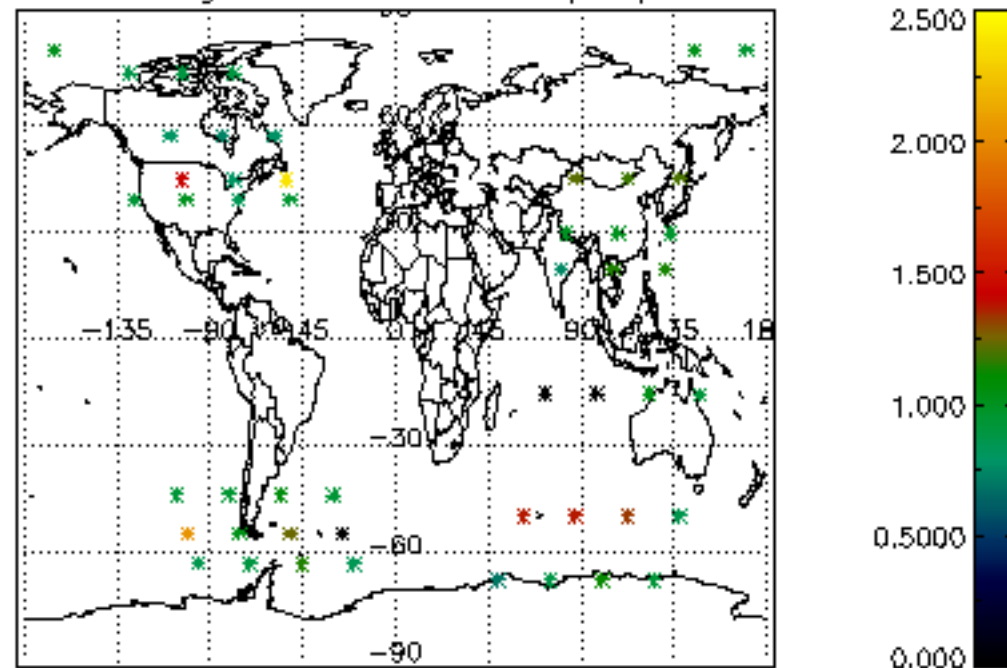




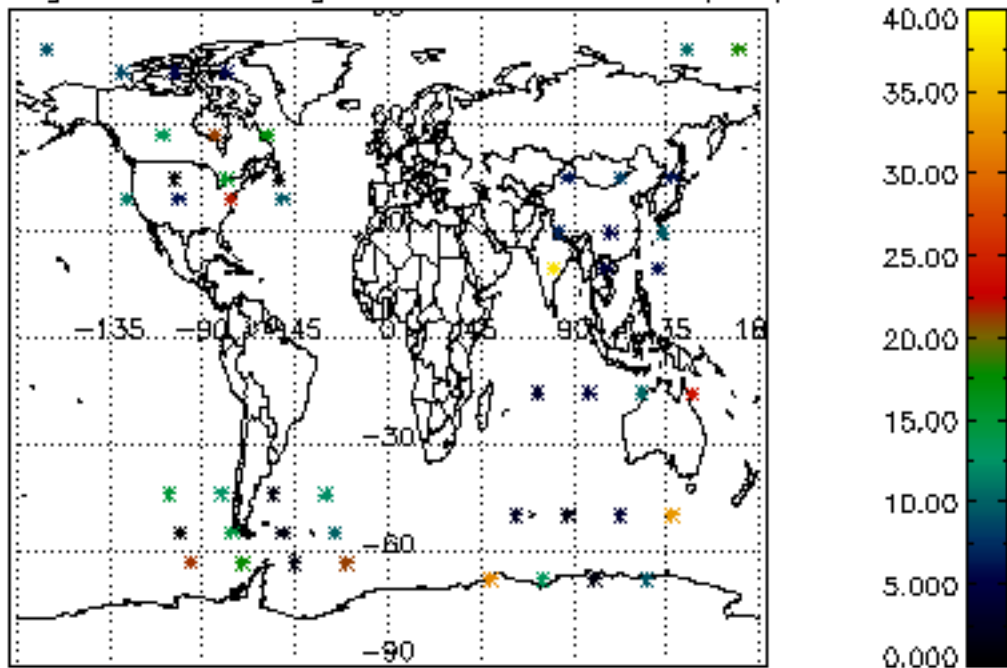
Percentage of cosmic ray hits per profile



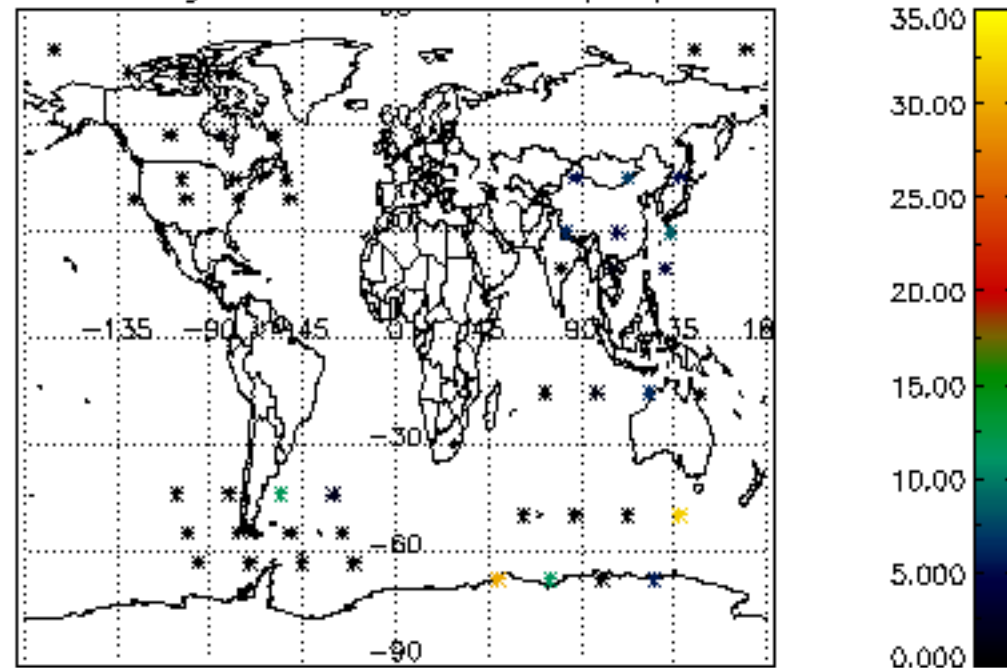
Percentage of datation errors per profile



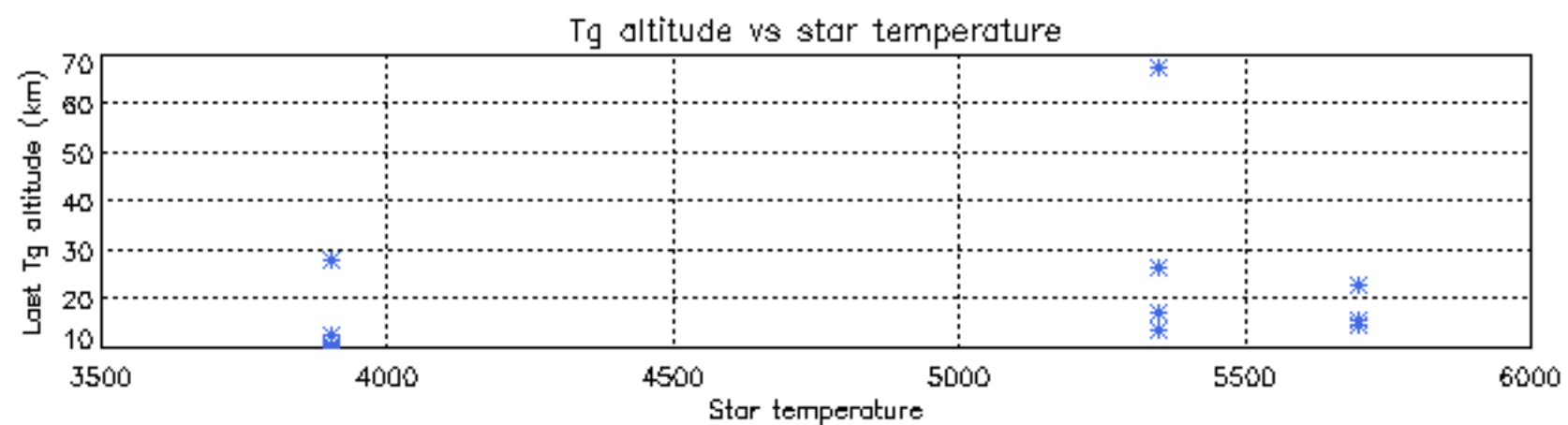
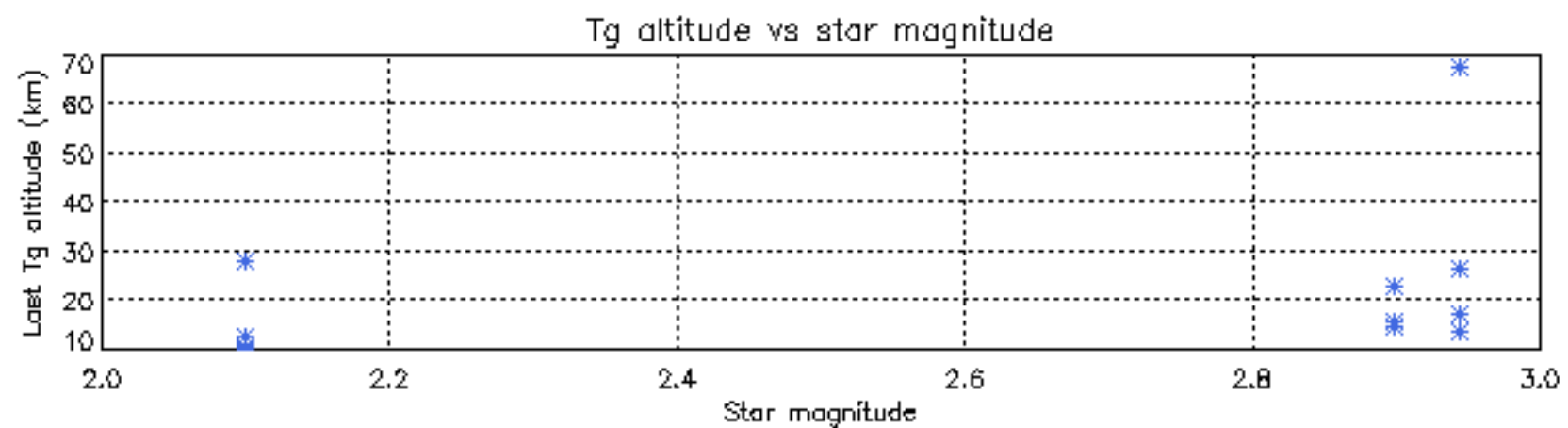
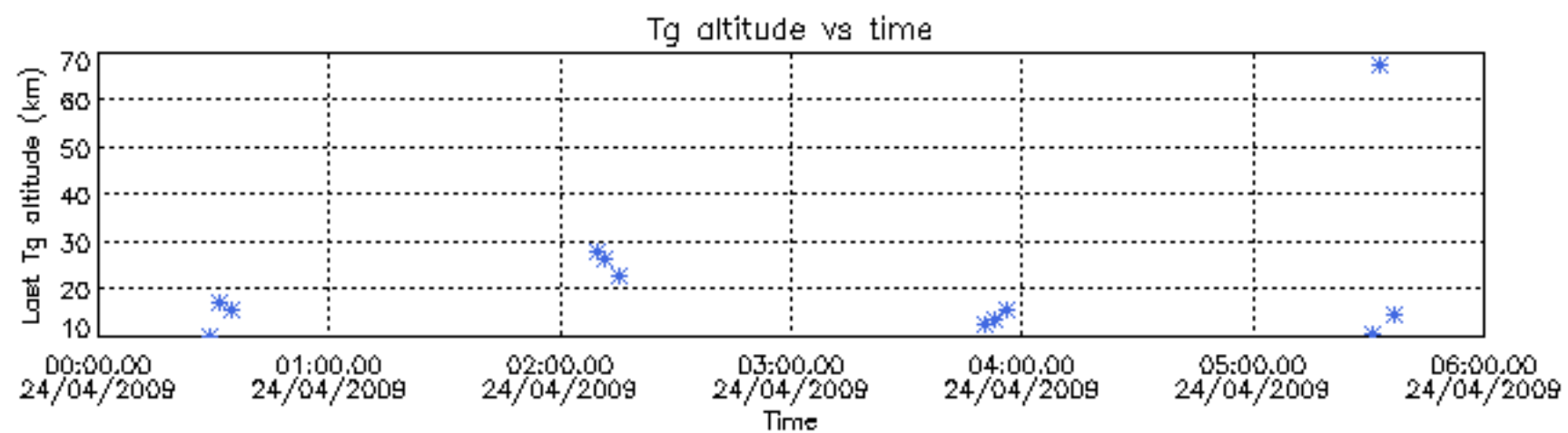
Percentage of star falling outside central band per profile



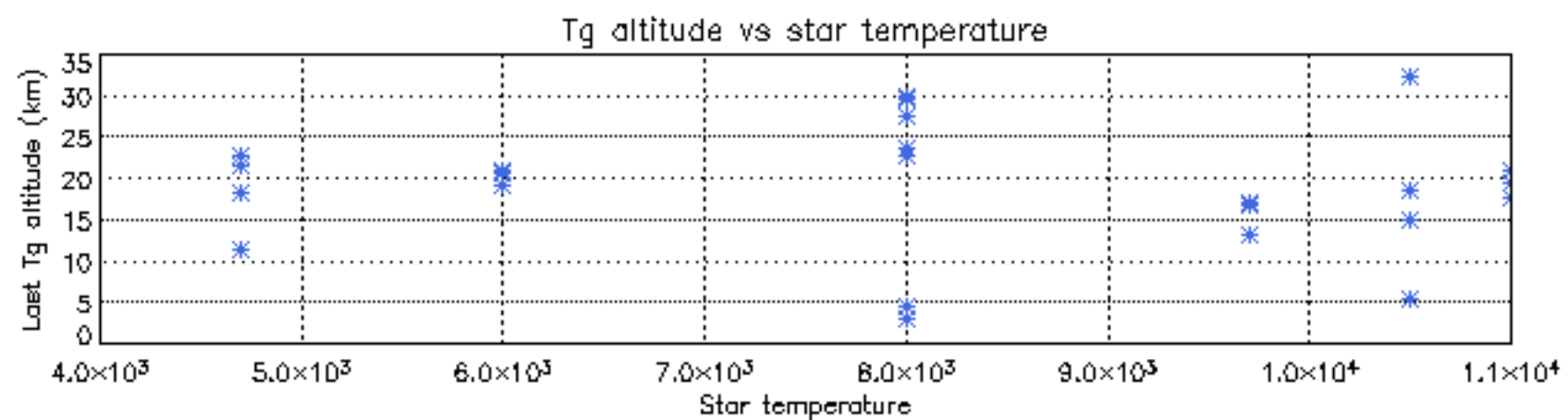
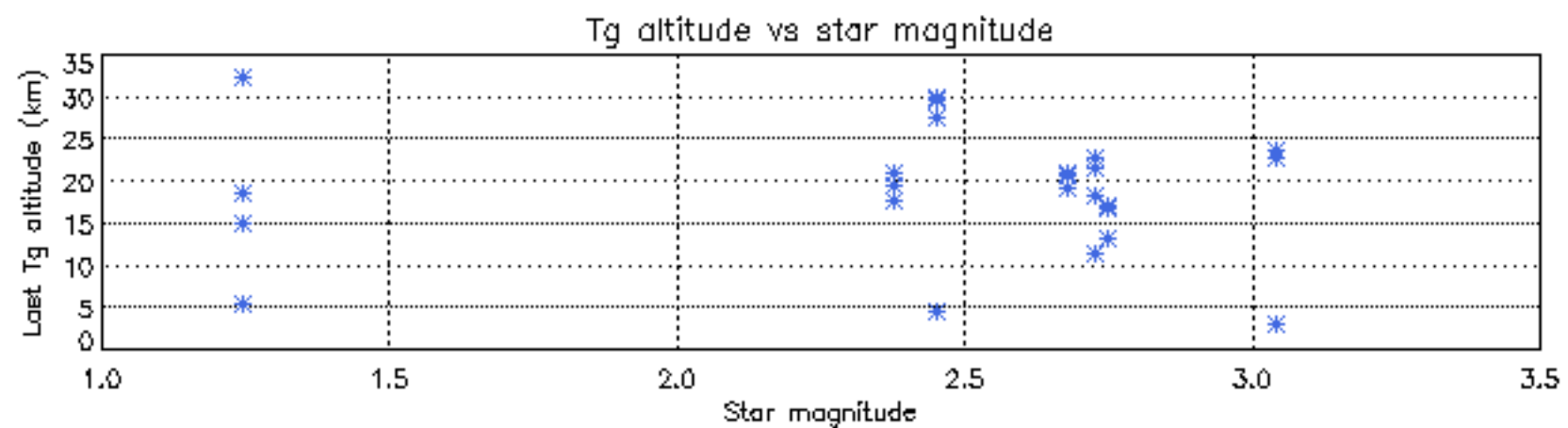
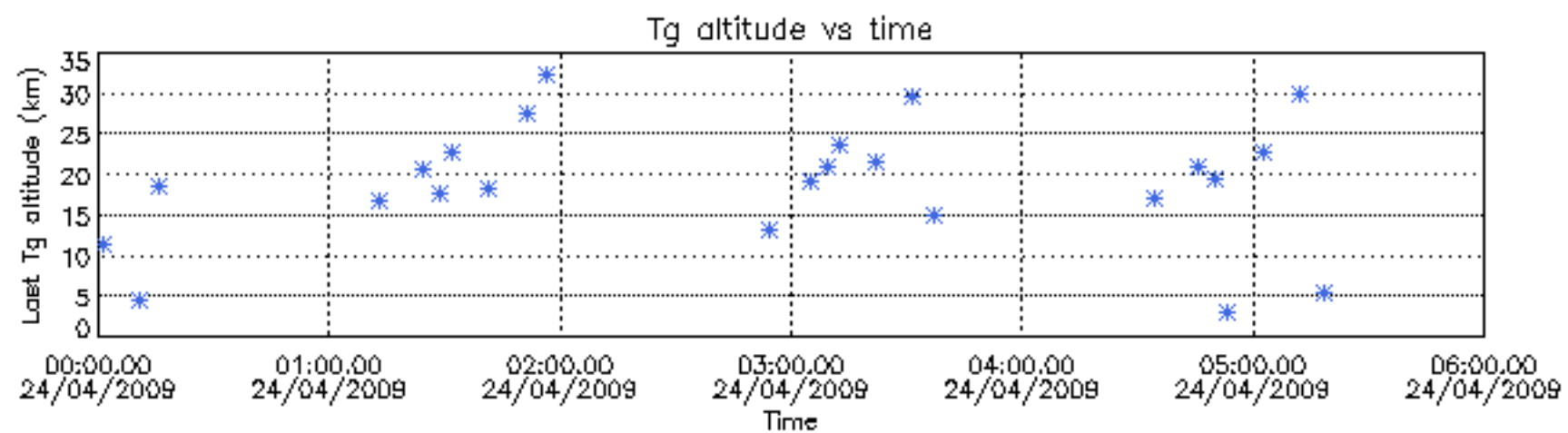
Percentage of saturation errors per profile

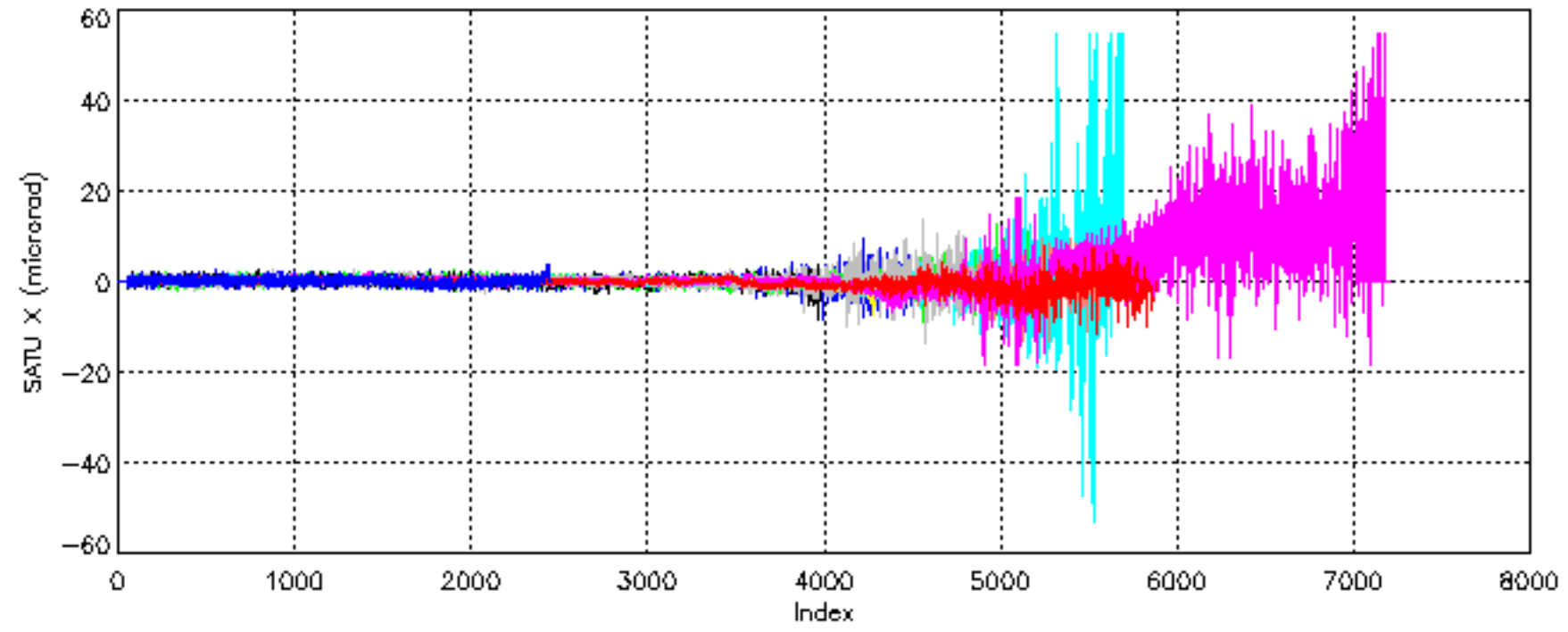


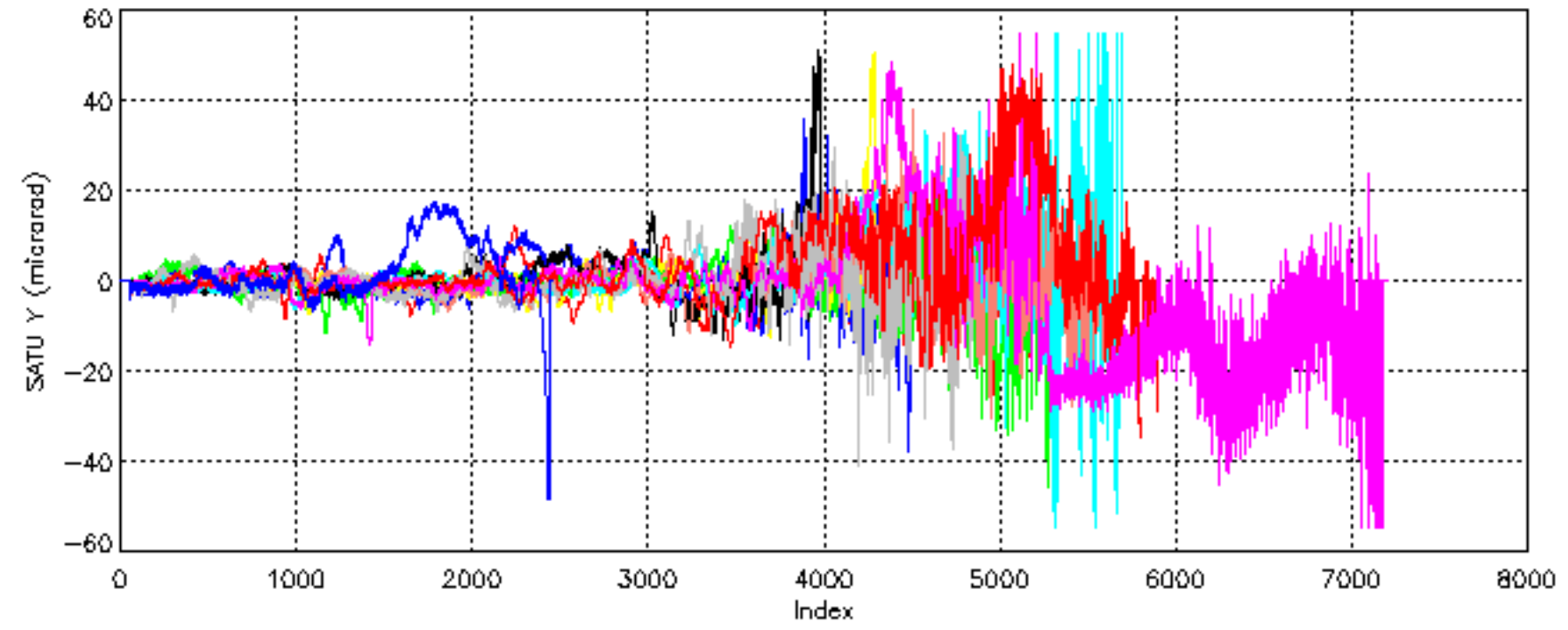
Tangent altitude at which the star is lost

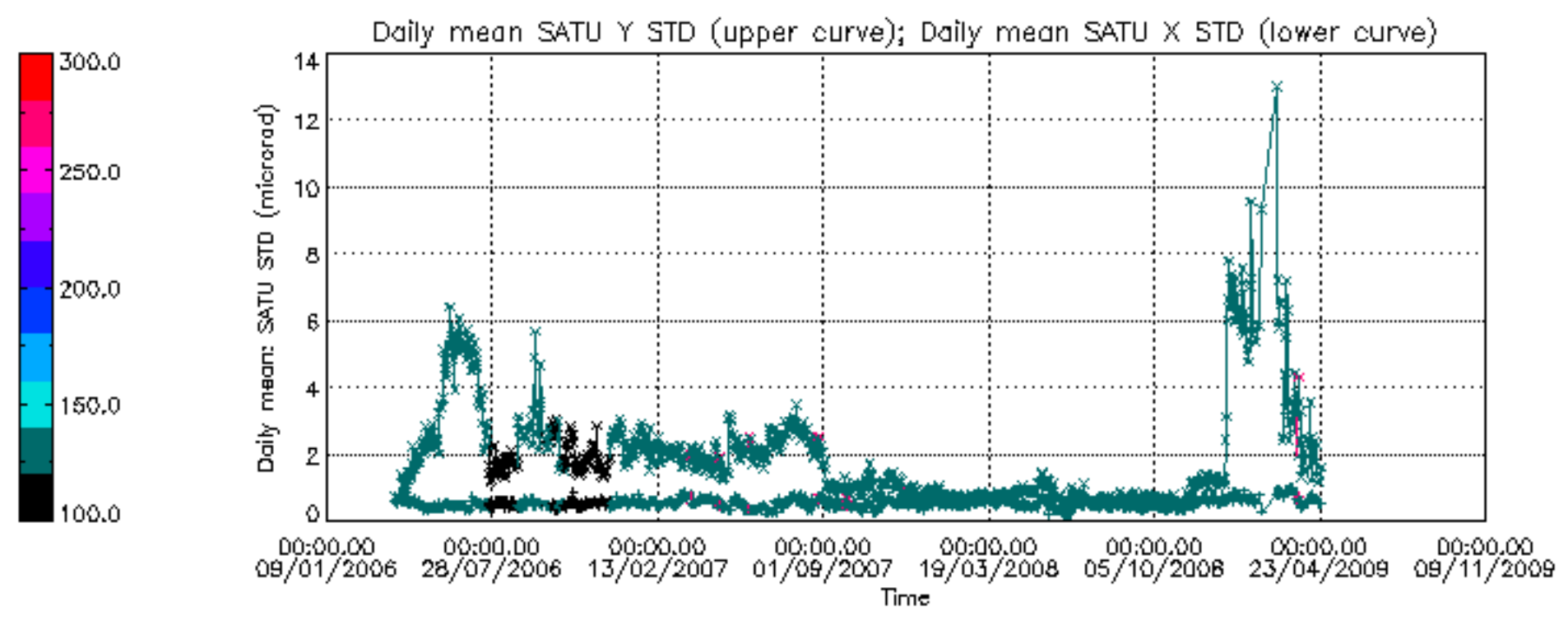


Tangent altitude at which the star is lost









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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
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 15; 7311.0; 23-APR-2009 10:02:00; Dark ; 36.0; 158; 6Pi Sco ; 2.91; 28000;occ; 72; 0;37364
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6; 3277.9; 23-APR-2009 17:17:47; Bright; 45.0; 119; 14Eta Dra ; 2.73; 4700;occ; 90; 0;37369
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11; 5476.6; 25-APR-2009 11:49:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37394
12; 6711.5; 25-APR-2009 12:09:59; Dark ; 34.5; 40; The Sco ; 1.86; 7100;occ; 69; 0;37394

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3; 2459.2; 30-APR-2009 11:42:14; Bright; 46.5; 83; ; 2.38; 11000;occ; 93; 0;37466
4; 2639.3; 30-APR-2009 11:45:14; Bright; 41.0; 180; 27Gam Boo ; 3.04; 8000;occ; 82; 0;37466
5; 3214.5; 30-APR-2009 11:54:49; Bright; 47.5; 119; 14Eta Dra ; 2.73; 4700;occ; 95; 0;37466
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7; 4507.6; 30-APR-2009 12:16:22; Bright; 42.0; 164; 44Eta Peg ; 2.95; 5400;occ; 84; 0;37466
8; 5027.3; 30-APR-2009 12:25:02; Dark ; 67.5; 61; 8Eps Peg ; 2.10; 3900;occ; 135; 0;37466
9; 5173.3; 30-APR-2009 12:27:28; Dark ; 54.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 109; 0;37466
10; 5394.1; 30-APR-2009 12:31:09; Dark ; 64.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 128; 0;37466

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13; 6882.9; 30-APR-2009 12:55:58; Dark ; 63.5; 25; 35Lam Sco ; 1.62; 28000;occ; 127; 0;37466
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11; 5395.2; 30-APR-2009 14:11:46; Dark ; 61.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 122; 0;37467
12; 5552.2; 30-APR-2009 14:14:23; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37467
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14; 6883.8; 30-APR-2009 14:36:34; Dark ; 62.0; 25; 35Lam Sco ; 1.62; 28000;occ; 124; 0;37467
15; 7072.7; 30-APR-2009 14:39:43; Dark ; 59.5; 75; 26Eps Sco ; 2.29; 4250;occ; 119; 0;37467
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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 3; 2265.9; 30-APR-2009 15:00:12; Bright; 60.0; 3; 16Alp Boo ; -0.05; 4250;occ; 120; 0;37468
 4; 2458.5; 30-APR-2009 15:03:25; Bright; 43.0; 83; ; 2.38; 11000;occ; 86; 0;37468
 5; 2638.5; 30-APR-2009 15:06:25; Bright; 39.0; 180; 27Gam Boo ; 3.04; 8000;occ; 78; 0;37468
 6; 3213.4; 30-APR-2009 15:16:00; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;37468
 7; 3830.0; 30-APR-2009 15:26:17; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;37468
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 3; 1399.5; 30-APR-2009 16:26:22; Dark ; 62.5; 80; 7Del Sco ; 2.32; 30000;occ; 125; 0;37469
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