

GOMOS Daily Report 25-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	28APR2009 05:39:28
Data source version	GOMOS/5.00
Start time of products	25APR2009 00:02:26
Stop time of products	25APR2009 05:42:42
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)

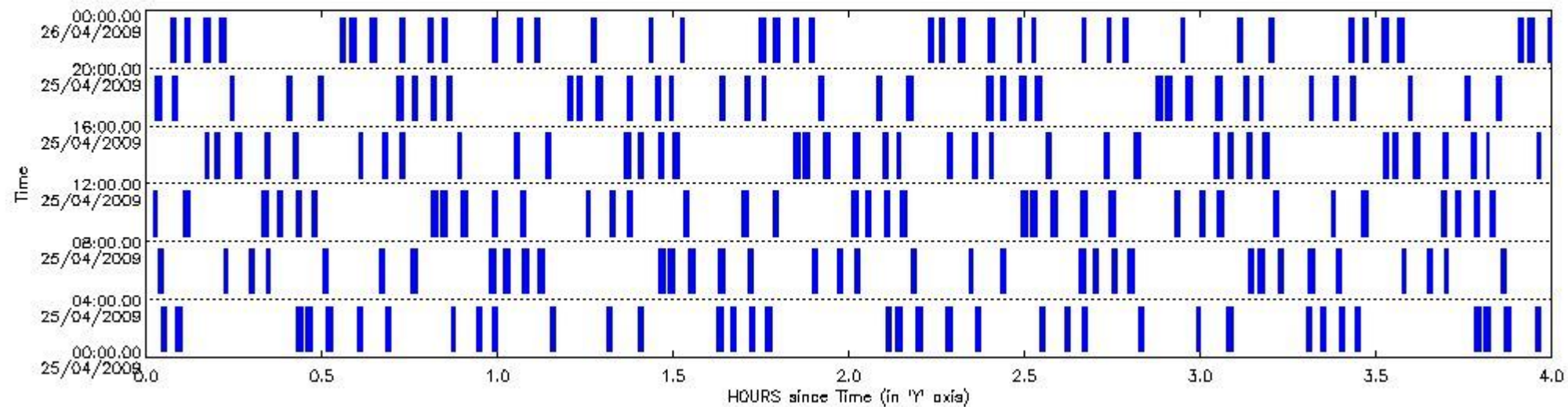
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

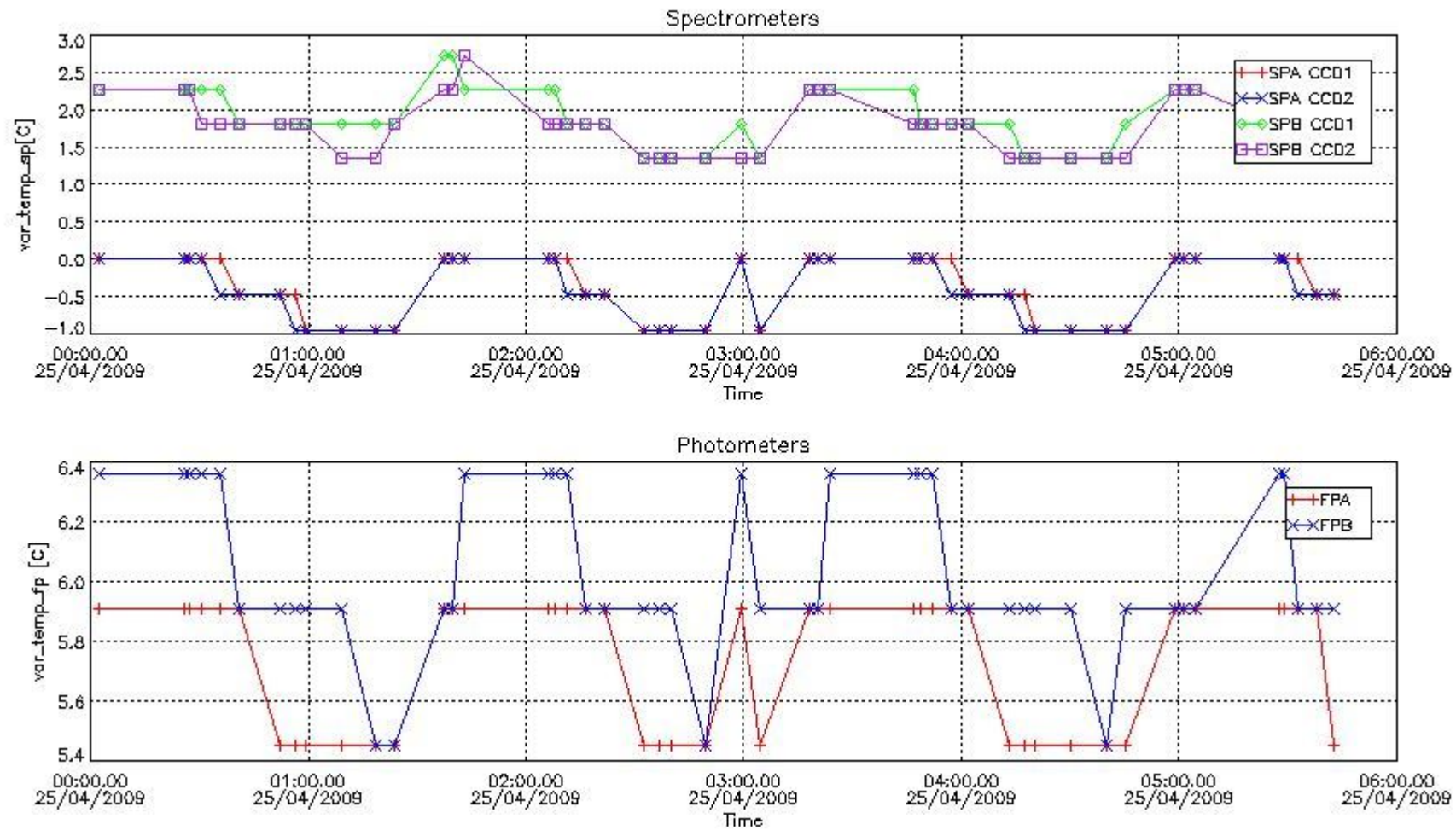
No missing products.

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_1PNPDE20090425_000226_000000522078_00259_37387_8313.N1	25-APR-2009 00:02:26	Dark	51.500	154	22Bet Aqr	2.8990	5700.0	103	37387	No
2	GOM_TRA_1PNPDE20090425_002540_000000562078_00260_37388_8314.N1	25-APR-2009 00:25:40	Straylight	56.000	40	The Sco	1.8590	7100.0	112	37388	No
3	GOM_TRA_1PNPDE20090425_002717_000000652078_00260_37388_8315.N1	25-APR-2009 00:27:17	Straylight	65.000	25	35Lam Sco	1.6200	28000.	130	37388	No
4	GOM_TRA_1PNPDE20090425_003045_000000682078_00260_37388_8316.N1	25-APR-2009 00:30:45	Straylight	67.500	75	26Eps Sco	2.2910	4250.0	135	37388	No
5	GOM_TRA_1PNPDE20090425_003558_000000582078_00260_37388_8317.N1	25-APR-2009 00:35:58	Twilight_and_stray	58.000	158	6Pi Sco	2.9060	28000.	116	37388	No
6	GOM_TRA_1PNPDE20090425_004054_000000482078_00260_37388_8318.N1	25-APR-2009 00:40:54	Bright	47.500	122	9Alp2Lib	2.7470	9700.0	95	37388	No
7	GOM_TRA_1PNPDE20090425_005204_000000432078_00260_37388_8319.N1	25-APR-2009 00:52:04	Bright	43.000	111	8Eta Boo	2.6800	6000.0	86	37388	No
8	GOM_TRA_1PNPDE20090425_005620_000000512078_00260_37388_8320.N1	25-APR-2009 00:56:20	Bright	51.000	83		2.3780	11000.	102	37388	No
9	GOM_TRA_1PNPDE20090425_005913_000000422078_00260_37388_8321.N1	25-APR-2009 00:59:13	Bright	42.000	180	27Gam Boo	3.0400	8000.0	84	37388	No
10	GOM_TRA_1PNPDE20090425_010857_000000482078_00260_37388_8322.N1	25-APR-2009 01:08:57	Bright	48.000	119	14Eta Dra	2.7270	4700.0	96	37388	No
11	GOM_TRA_1PNPDE20090425_011843_000000472078_00260_37388_8323.N1	25-APR-2009 01:18:43	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	37388	No
12	GOM_TRA_1PNPDE20090425_012359_000000532078_00260_37388_8324.N1	25-APR-2009 01:23:59	Bright	52.500	19	50Alp Cyg	1.2460	10500.	105	37388	No

13	GOM_TRA_1PNPDE20090425_013723_000000582078_00260_37388_8325.N1	25-APR-2009 01:37:23	Dark	58.000	61	8Eps Peg	2.1000	3900.0	116	37388	No
14	GOM_TRA_1PNPDE20090425_013951_000000492078_00260_37388_8465.N1	25-APR-2009 01:39:51	Dark	49.000	162	34Alp Aqr	2.9440	5350.0	98	37388	No
15	GOM_TRA_1PNPDE20090425_014303_000000522078_00260_37388_8466.N1	25-APR-2009 01:43:03	Dark	51.500	154	22Bet Aqr	2.8990	5700.0	103	37388	No
16	GOM_TRA_1PNPDE20090425_020617_000000562078_00261_37389_8467.N1	25-APR-2009 02:06:17	Straylight	56.000	40	The Sco	1.8590	7100.0	112	37389	No
17	GOM_TRA_1PNPDE20090425_020754_000000642078_00261_37389_8468.N1	25-APR-2009 02:07:54	Straylight	63.500	25	35Lam Sco	1.6200	28000.	127	37389	No
18	GOM_TRA_1PNPDE20090425_021122_000000632078_00261_37389_8469.N1	25-APR-2009 02:11:22	Straylight	62.500	75	26Eps Sco	2.2910	4250.0	125	37389	No
19	GOM_TRA_1PNPDE20090425_021634_000000592078_00261_37389_8470.N1	25-APR-2009 02:16:34	Tw_i_and_stray	58.500	158	6Pi Sco	2.9060	28000.	117	37389	No
20	GOM_TRA_1PNPDE20090425_022130_000000482078_00261_37389_8471.N1	25-APR-2009 02:21:30	Bright	47.500	122	9Alp2Lib	2.7470	9700.0	95	37389	No
21	GOM_TRA_1PNPDE20090425_023240_000000422078_00261_37389_8472.N1	25-APR-2009 02:32:40	Bright	42.000	111	8Eta Boo	2.6800	6000.0	84	37389	No
22	GOM_TRA_1PNPDE20090425_023655_000000532078_00261_37389_8473.N1	25-APR-2009 02:36:55	Bright	52.500	83		2.3780	11000.	105	37389	No
23	GOM_TRA_1PNPDE20090425_023949_000000442078_00261_37389_8474.N1	25-APR-2009 02:39:49	Bright	44.000	180	27Gam Boo	3.0400	8000.0	88	37389	No
24	GOM_TRA_1PNPDE20090425_024932_000000462078_00261_37389_8475.N1	25-APR-2009 02:49:32	Bright	46.000	119	14Eta Dra	2.7270	4700.0	92	37389	No
25	GOM_TRA_1PNPDE20090425_025919_000000392078_00261_37389_8659.N1	25-APR-2009 02:59:19	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	37389	Yes
26	GOM_TRA_1PNPDE20090425_030435_000000592078_00261_37389_8660.N1	25-APR-2009 03:04:35	Bright	58.500	19	50Alp Cyg	1.2460	10500.	117	37389	No
27	GOM_TRA_1PNPDE20090425_031800_000000572078_00261_37389_8661.N1	25-APR-2009 03:18:00	Dark	57.000	61	8Eps Peg	2.1000	3900.0	114	37389	No
28	GOM_TRA_1PNPDE20090425_032027_000000512078_00261_37389_8662.N1	25-APR-2009 03:20:27	Dark	50.500	162	34Alp Aqr	2.9440	5350.0	101	37389	No
29	GOM_TRA_1PNPDE20090425_032340_000000542078_00261_37389_8663.N1	25-APR-2009 03:23:40	Dark	53.500	154	22Bet Aqr	2.8990	5700.0	107	37389	No
30	GOM_TRA_1PNPDE20090425_034655_000000622078_00262_37390_8664.N1	25-APR-2009 03:46:55	Straylight	62.000	40	The Sco	1.8590	7100.0	124	37390	No
31	GOM_TRA_1PNPDE20090425_034831_000000642078_00262_37390_8665.N1	25-APR-2009 03:48:31	Straylight	63.500	25	35Lam Sco	1.6200	28000.	127	37390	No
32	GOM_TRA_1PNPDE20090425_035159_000000592078_00262_37390_8666.N1	25-APR-2009 03:51:59	Straylight	59.000	75	26Eps Sco	2.2910	4250.0	118	37390	No
33	GOM_TRA_1PNPDE20090425_035711_000000592078_00262_37390_8667.N1	25-APR-2009 03:57:11	Tw_i_and_stray	58.500	158	6Pi Sco	2.9060	28000.	117	37390	No
34	GOM_TRA_1PNPDE20090425_040206_000000482078_00262_37390_8668.N1	25-APR-2009 04:02:06	Bright	48.000	122	9Alp2Lib	2.7470	9700.0	96	37390	No
35	GOM_TRA_1PNPDE20090425_041316_000000412078_00262_37390_8669.N1	25-APR-2009 04:13:16	Bright	40.500	111	8Eta Boo	2.6800	6000.0	81	37390	No
36	GOM_TRA_1PNPDE20090425_041731_000000462078_00262_37390_8670.N1	25-APR-2009 04:17:31	Bright	46.000	83		2.3780	11000.	92	37390	No
37	GOM_TRA_1PNPDE20090425_042024_000000432078_00262_37390_8671.N1	25-APR-2009 04:20:24	Bright	42.500	180	27Gam Boo	3.0400	8000.0	85	37390	No
38	GOM_TRA_1PNPDE20090425_043008_000000452078_00262_37390_8672.N1	25-APR-2009 04:30:08	Bright	45.000	119	14Eta Dra	2.7270	4700.0	90	37390	No
39	GOM_TRA_1PNPDE20090425_043955_000000402078_00262_37390_8841.N1	25-APR-2009 04:39:55	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	37390	No
40	GOM_TRA_1PNPDE20090425_044510_000000712078_00262_37390_8842.N1	25-APR-2009 04:45:10	Bright	71.000	19	50Alp Cyg	1.2460	10500.	142	37390	No
41	GOM_TRA_1PNPDE20090425_045836_000000582078_00262_37390_8843.N1	25-APR-2009 04:58:36	Dark	57.500	61	8Eps Peg	2.1000	3900.0	115	37390	No
42	GOM_TRA_1PNPDE20090425_050104_000000522078_00262_37390_8844.N1	25-APR-2009 05:01:04	Dark	52.000	162	34Alp Aqr	2.9440	5350.0	104	37390	No
43	GOM_TRA_1PNPDE20090425_050417_000000542078_00262_37390_8845.N1	25-APR-2009 05:04:17	Dark	53.500	154	22Bet Aqr	2.8990	5700.0	107	37390	No
44	GOM_TRA_1PNPDE20090425_052732_000000552078_00263_37391_8846.N1	25-APR-2009 05:27:32	Straylight	55.000	40	The Sco	1.8590	7100.0	110	37391	No
45	GOM_TRA_1PNPDE20090425_052908_000000652078_00263_37391_8847.N1	25-APR-2009 05:29:08	Straylight	64.500	25	35Lam Sco	1.6200	28000.	129	37391	No
46	GOM_TRA_1PNPDE20090425_053236_000000632078_00263_37391_8848.N1	25-APR-2009 05:32:36	Straylight	62.500	75	26Eps Sco	2.2910	4250.0	125	37391	No
47	GOM_TRA_1PNPDE20090425_053747_000000602078_00263_37391_8849.N1	25-APR-2009 05:37:47	Tw_i_and_stray	59.500	158	6Pi Sco	2.9060	28000.	119	37391	No
48	GOM_TRA_1PNPDE20090425_054242_000000502078_00263_37391_8850.N1	25-APR-2009 05:42:42	Bright	50.000	122	9Alp2Lib	2.7470	9700.0	100	37391	No

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



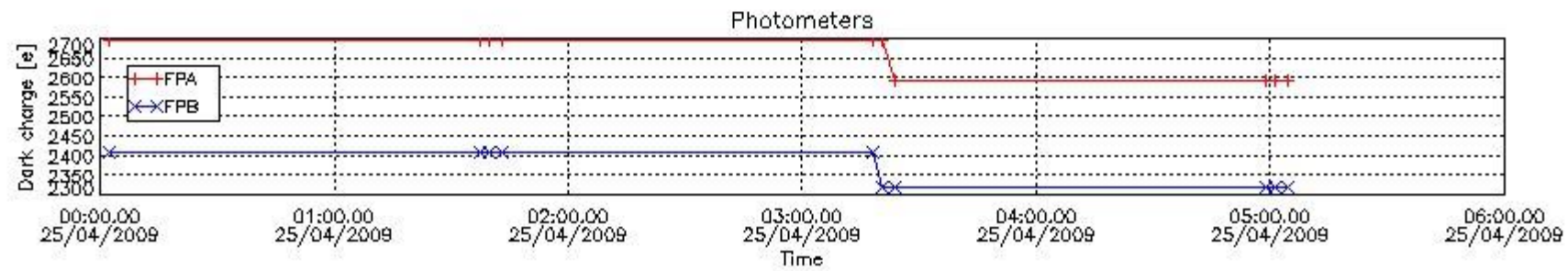
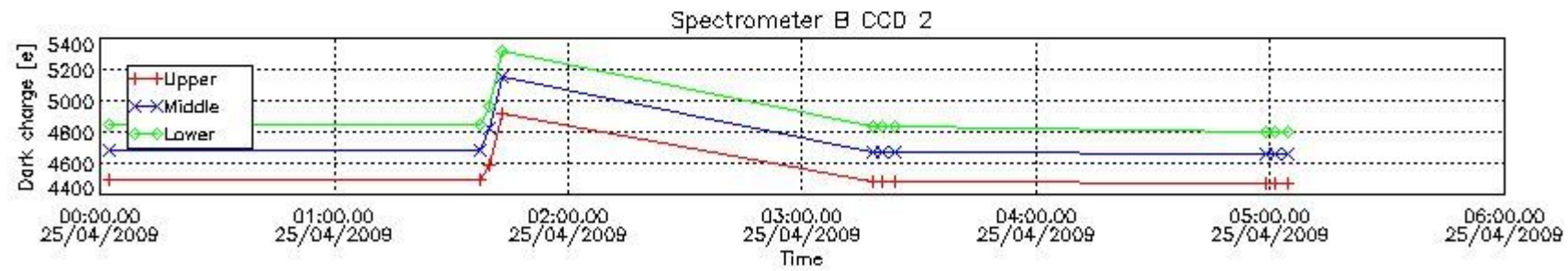
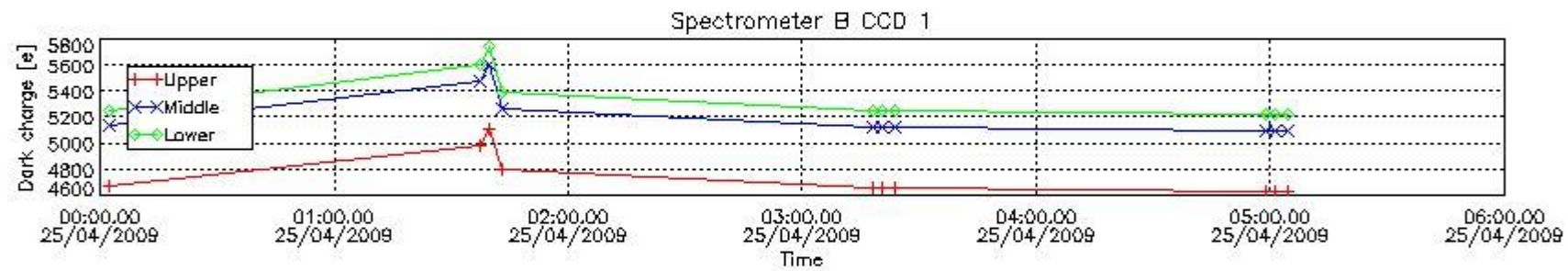
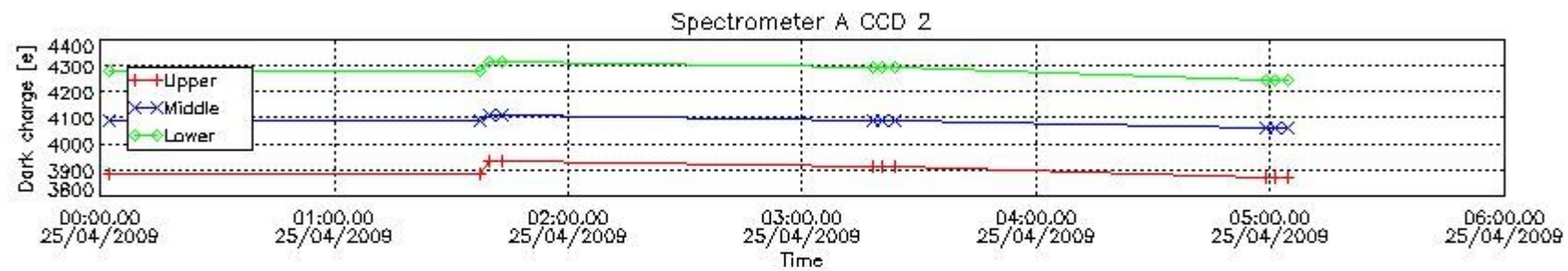
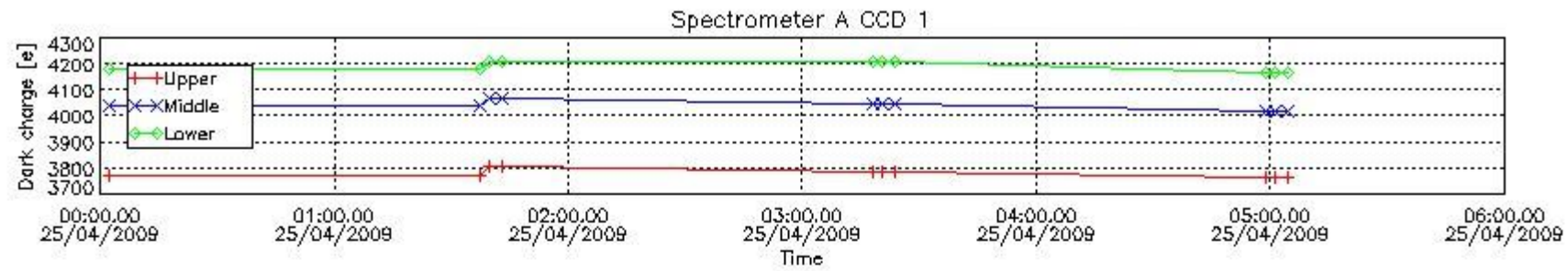
4. Overview of dark signal processing per product

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



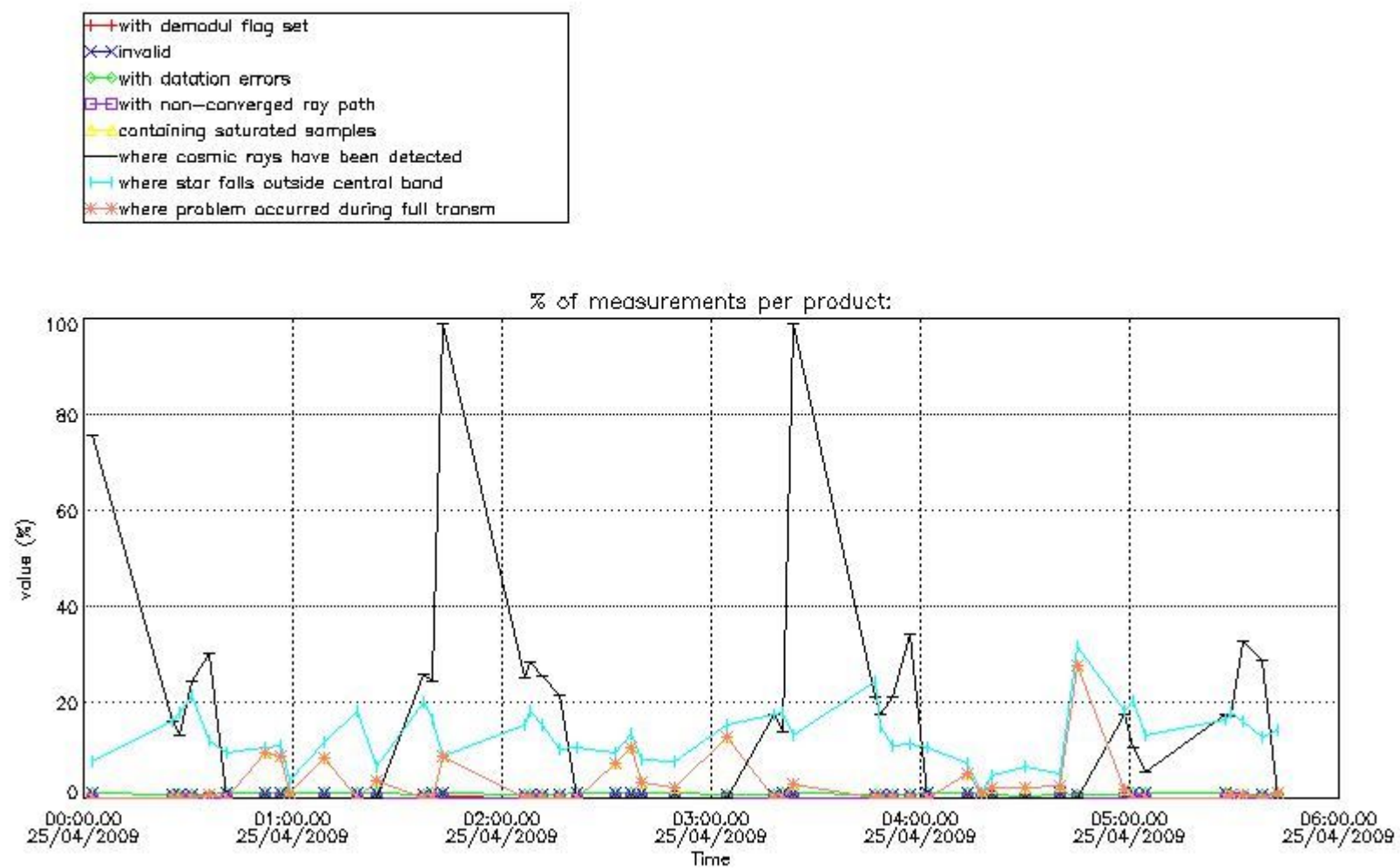
5. Demodulation flag and quality information monitoring

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.

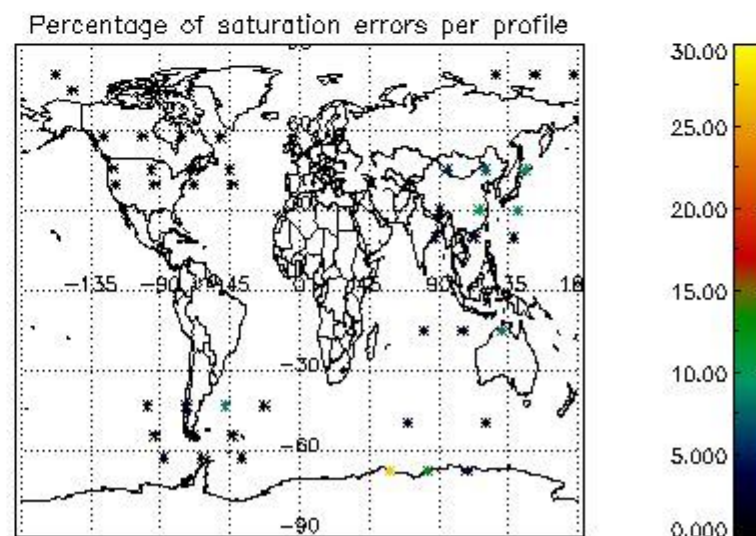
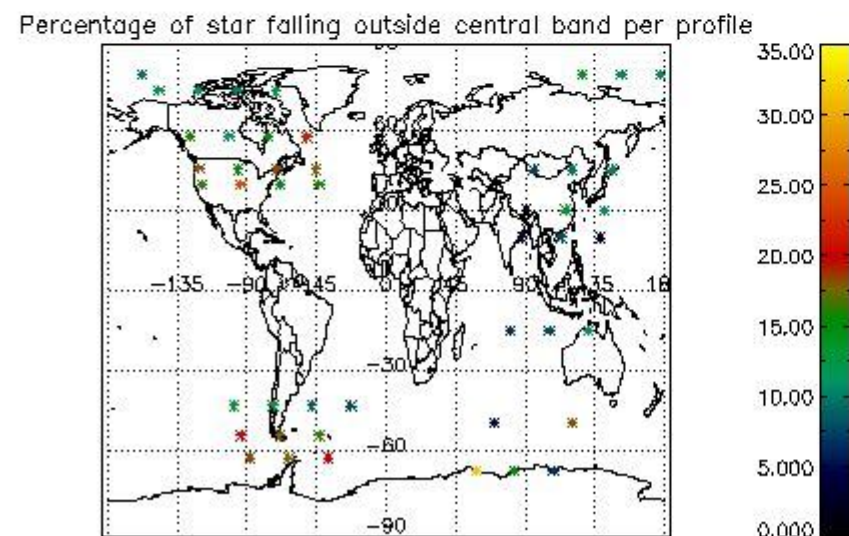
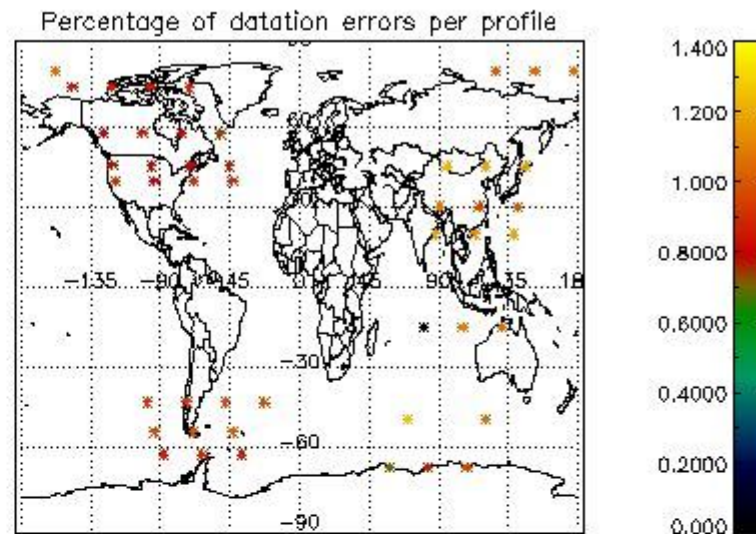
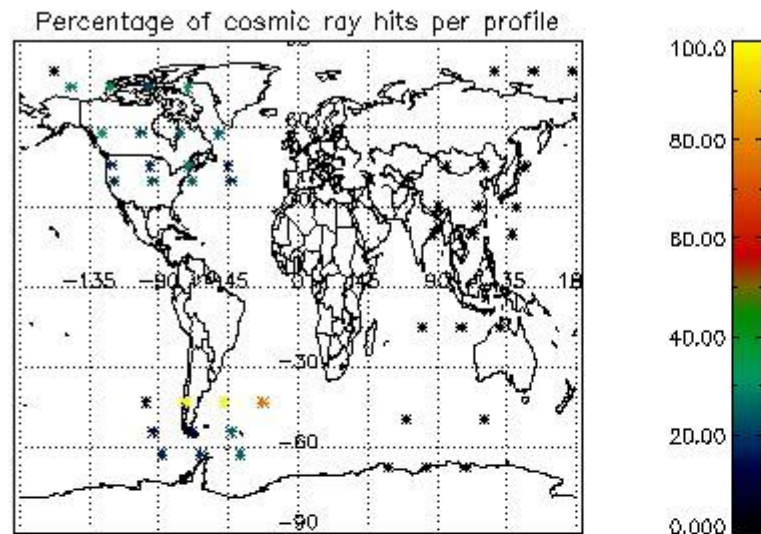
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	44.6809 %
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)



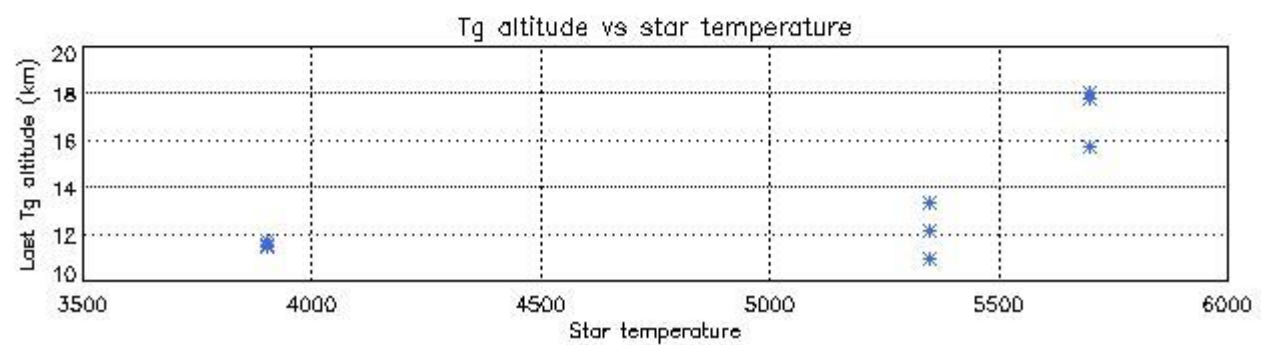
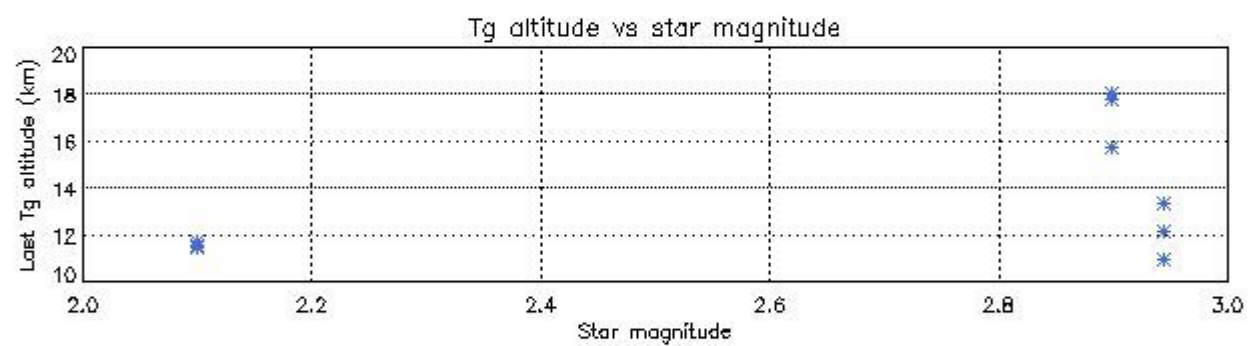
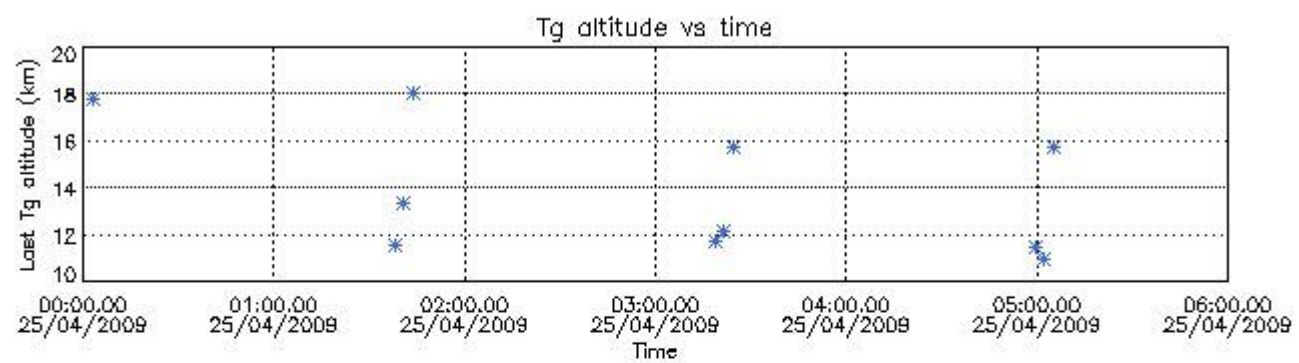
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.835	18.585	NaN
St. deviation:	2.7413	4.3416	NaN
Maximum:	18.044	24.949	NaN
Minimum:	10.903	6.3232	NaN
Number of data:	10.000	21.000	NaN

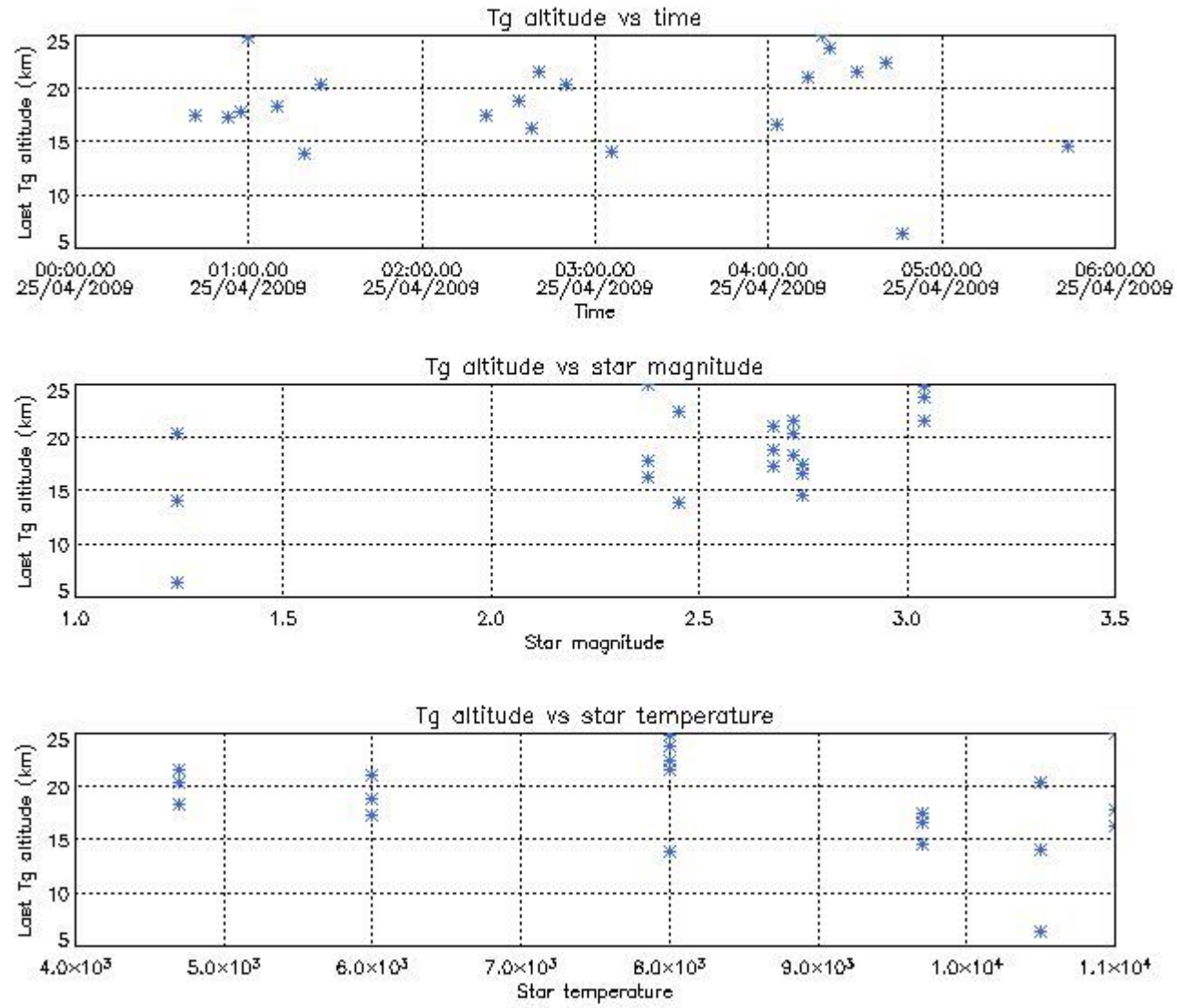
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

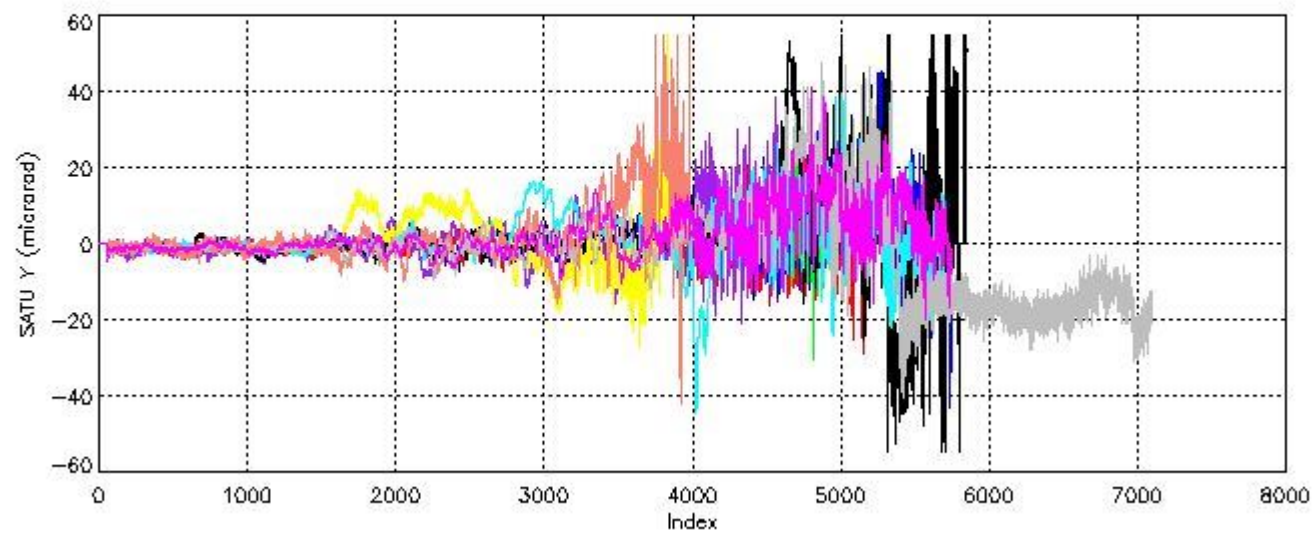
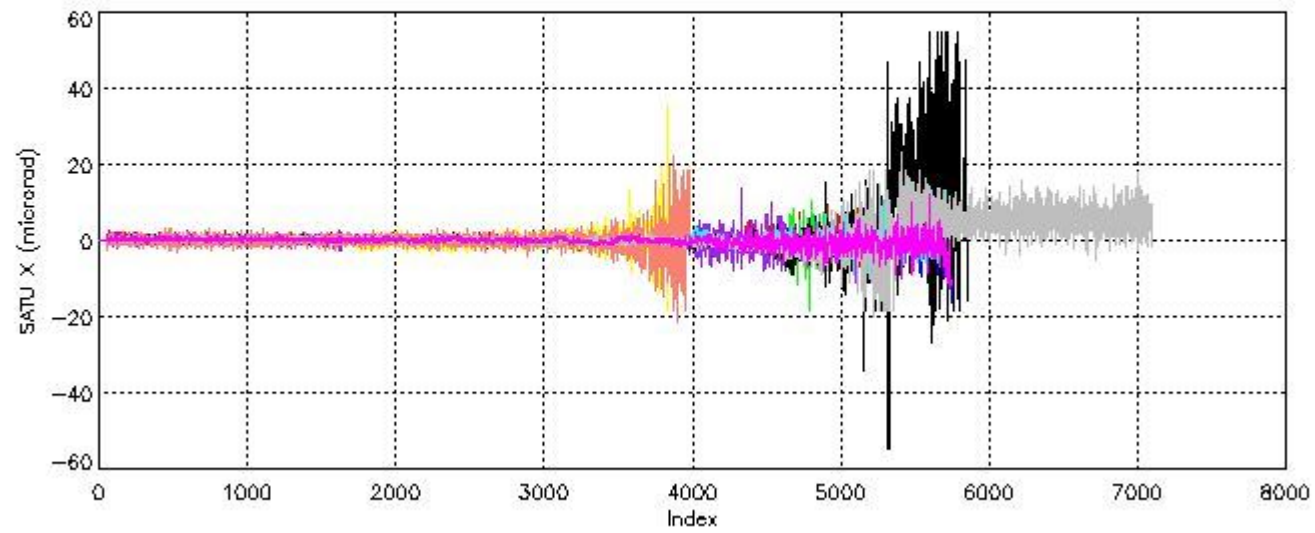


7. Star Acquisition and Tracking Unit (SATU)

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:	0.29397	-1.0150	0.30597	-1.0021
St. deviation:	0.55903	1.0454	0.85155	1.2367
Maximum:	2.7000	6.2000	5.7000	6.3000
Minimum:	-2.3000	-6.6000	-5.5000	-7.0000

Number of data:	11300.	11300.	22350.	22350.
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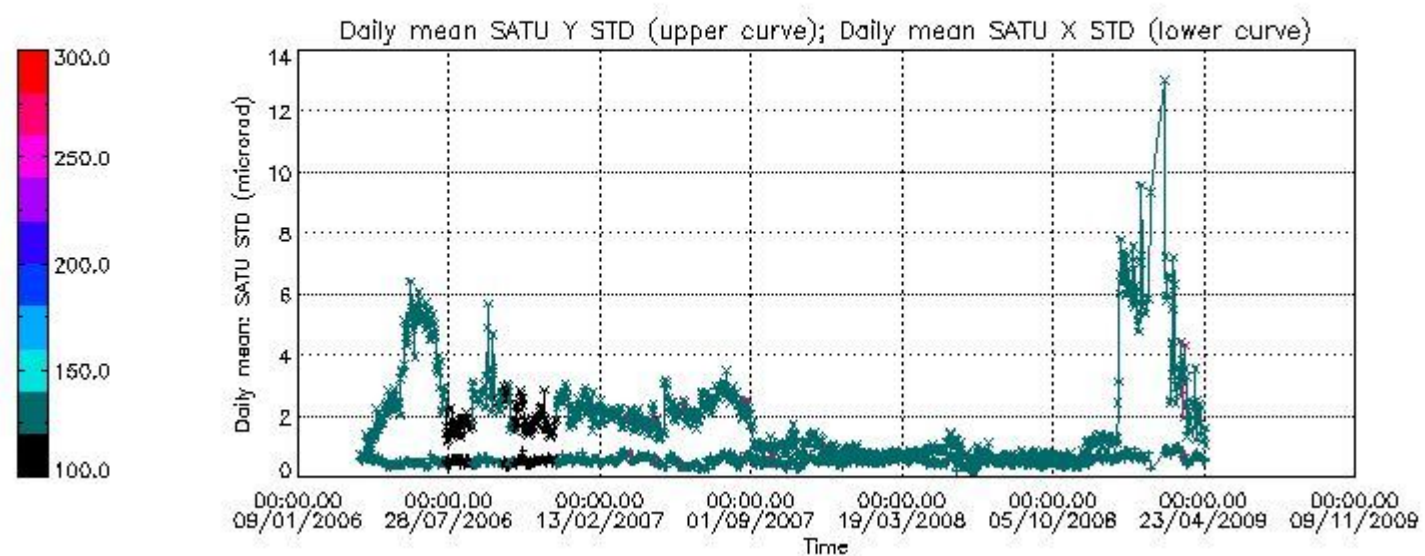
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

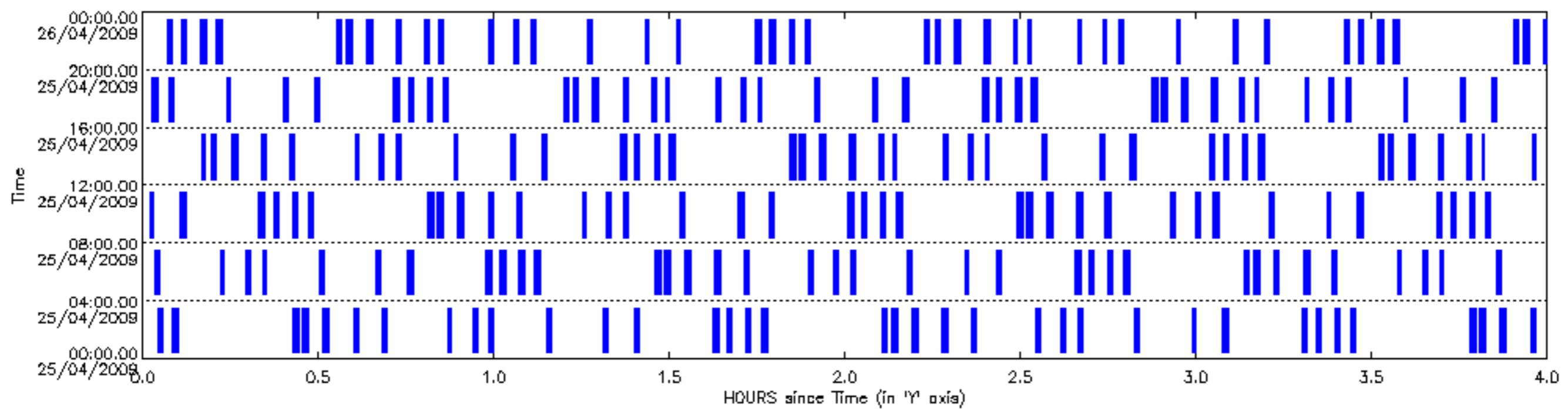
Lower curve: STD of SATU X axis

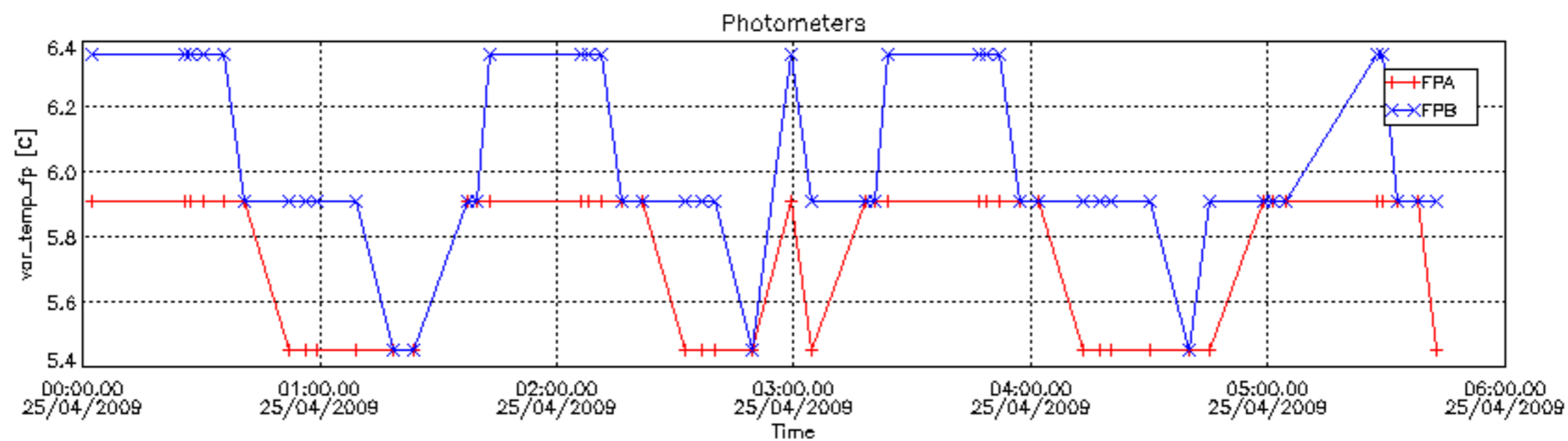
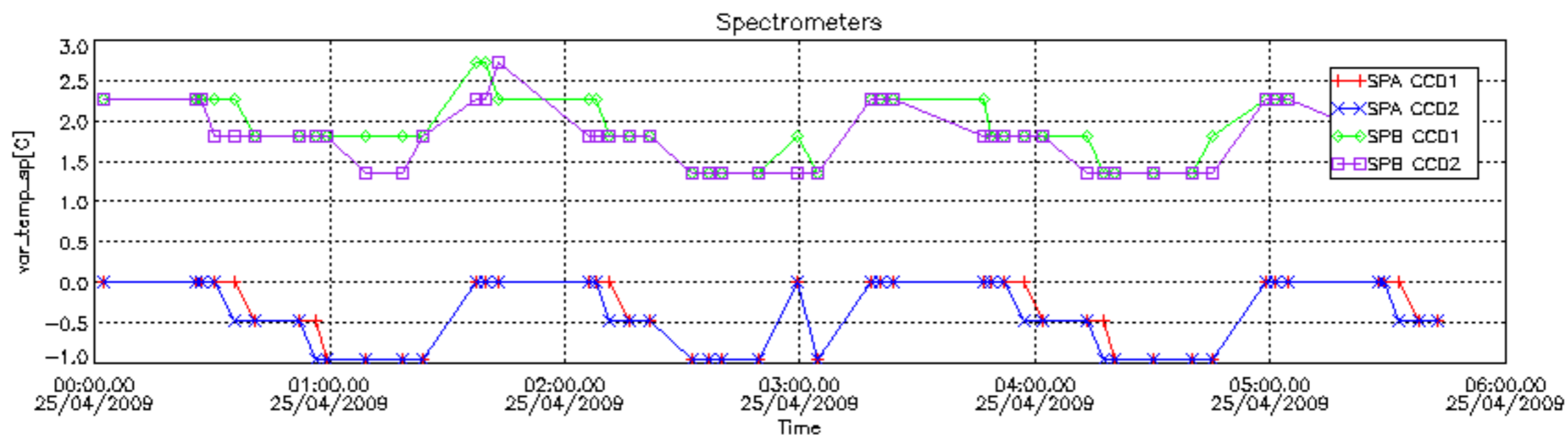


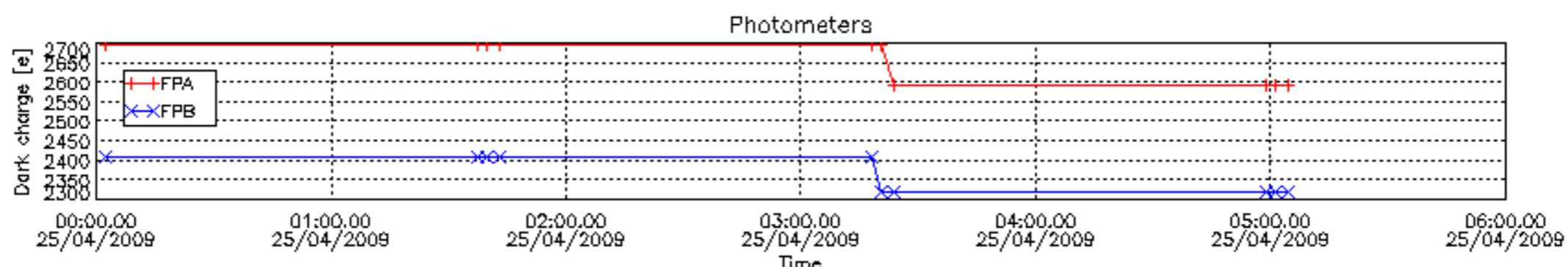
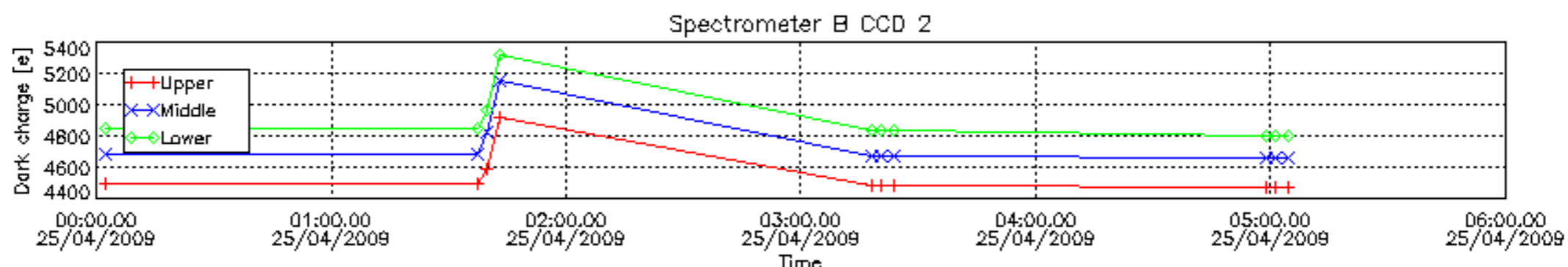
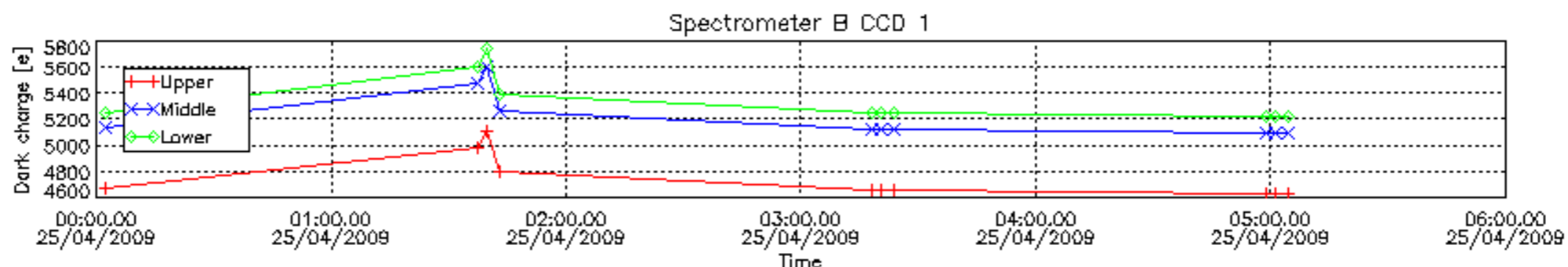
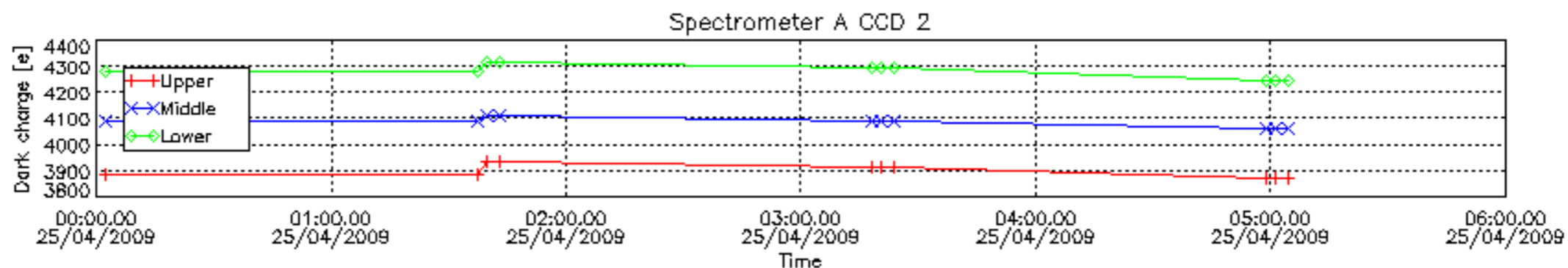
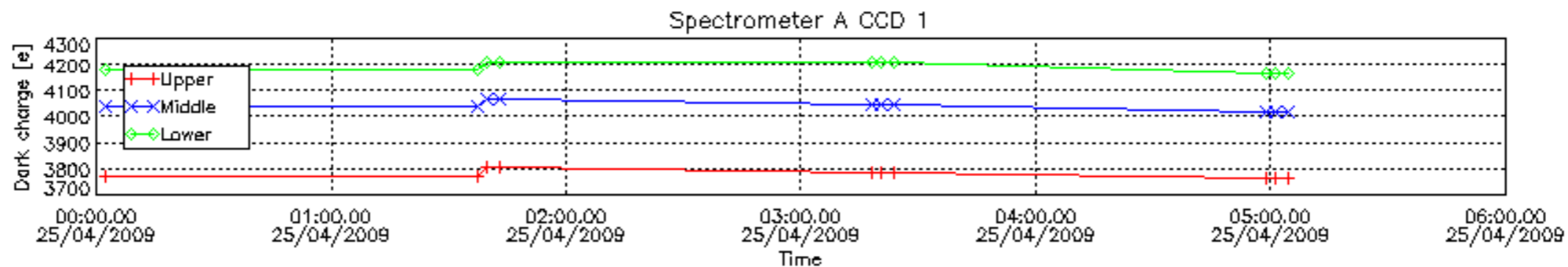
8. Auxiliary Data Files used for the production reported in section 2.4

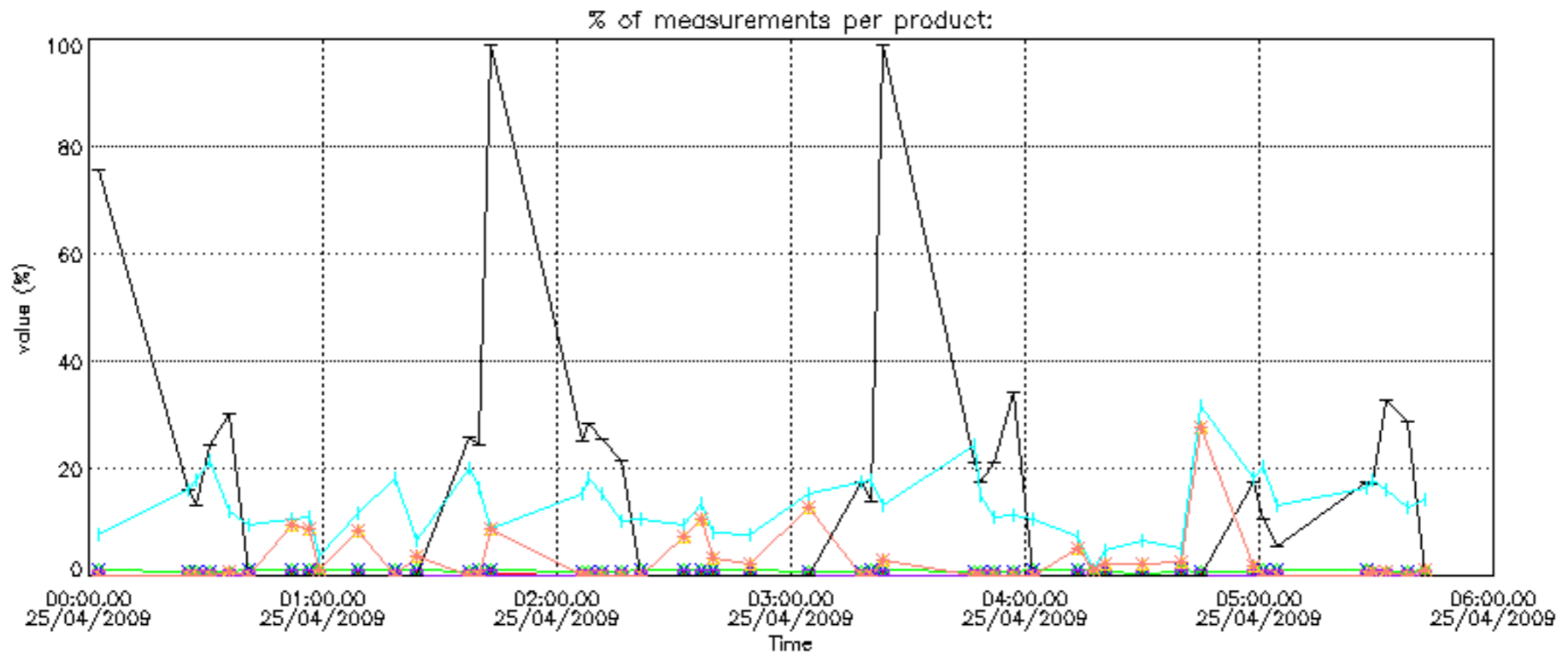
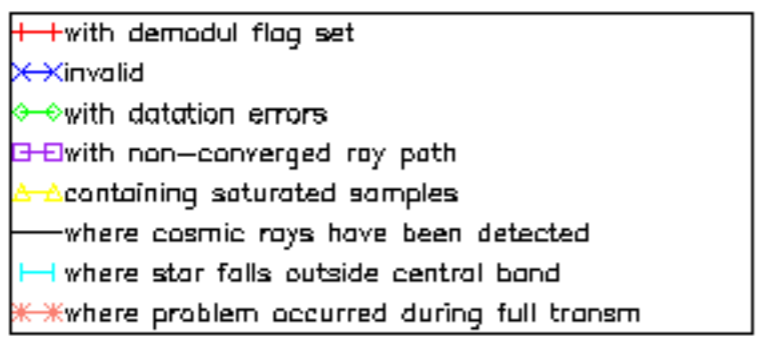
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	25-APR-2009 00:02:26
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090422_132334_20090420_000000_20100101_000000	1	25-APR-2009 00:02:26
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	25-APR-2009 00:02:26
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	25-APR-2009 00:02:26
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	25-APR-2009 00:02:26
ECMWF_FILE	AUX_ECF_AXNECM20090424_064112_20090424_210000_20090425_090000	1	25-APR-2009 00:02:26
ECMWF_FILE	AUX_ECF_AXNECM20090424_184112_20090425_030000_20090425_150000	39	25-APR-2009 04:39:55
OPTIONAL_ECMWF_FILE	MISSING	1	25-APR-2009 00:02:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090424_221505_000060572078_00258_37386_7818.N1	1	25-APR-2009 00:02:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090424_235602_000057382078_00259_37387_7819.N1	14	25-APR-2009 01:39:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090425_025641_000054192078_00261_37389_7821.N1	25	25-APR-2009 02:59:19

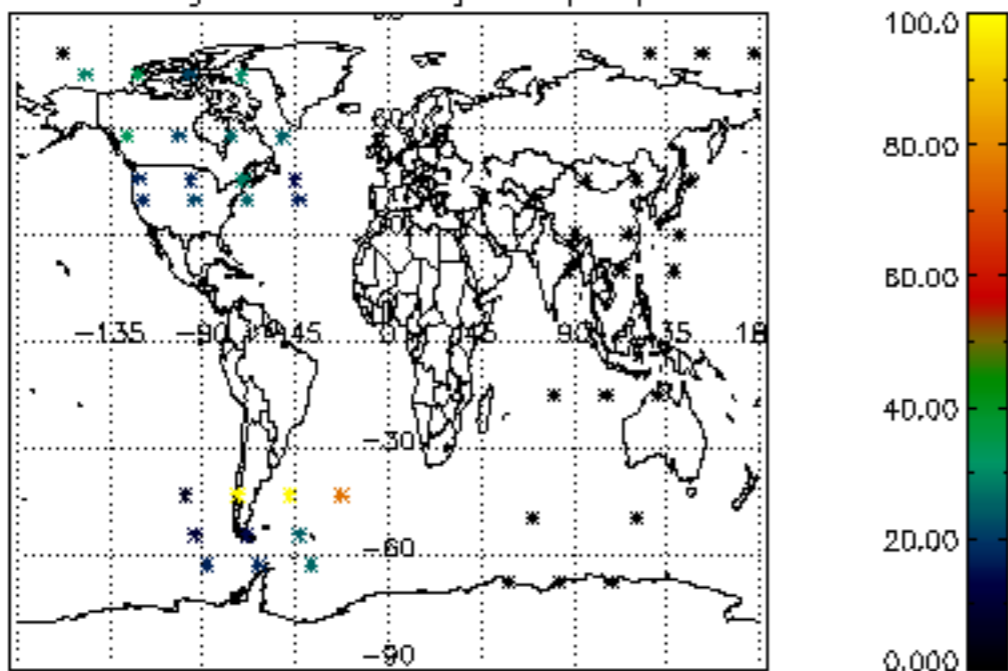




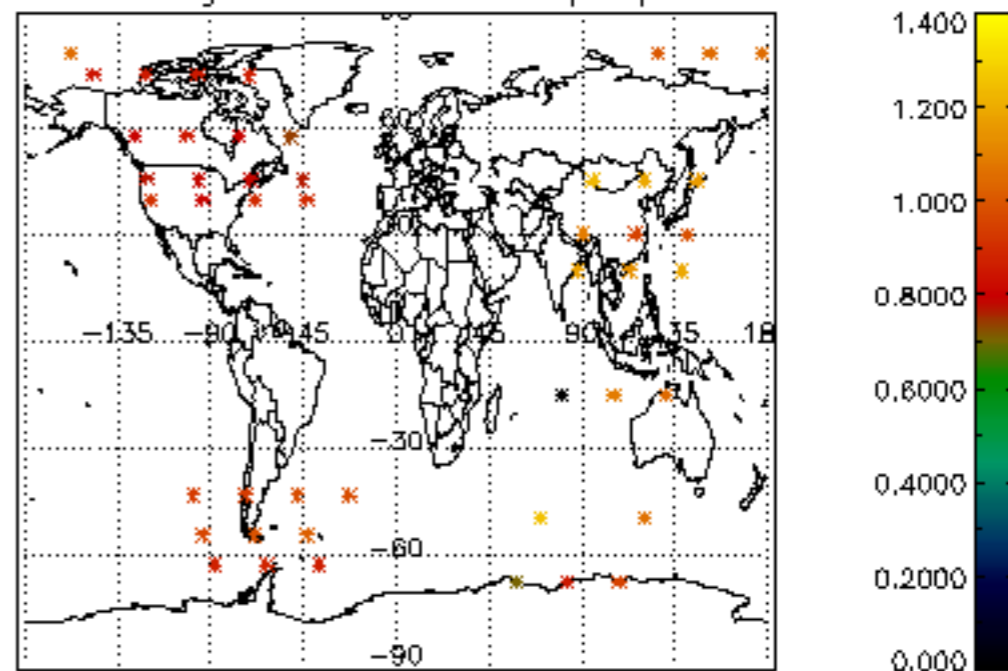




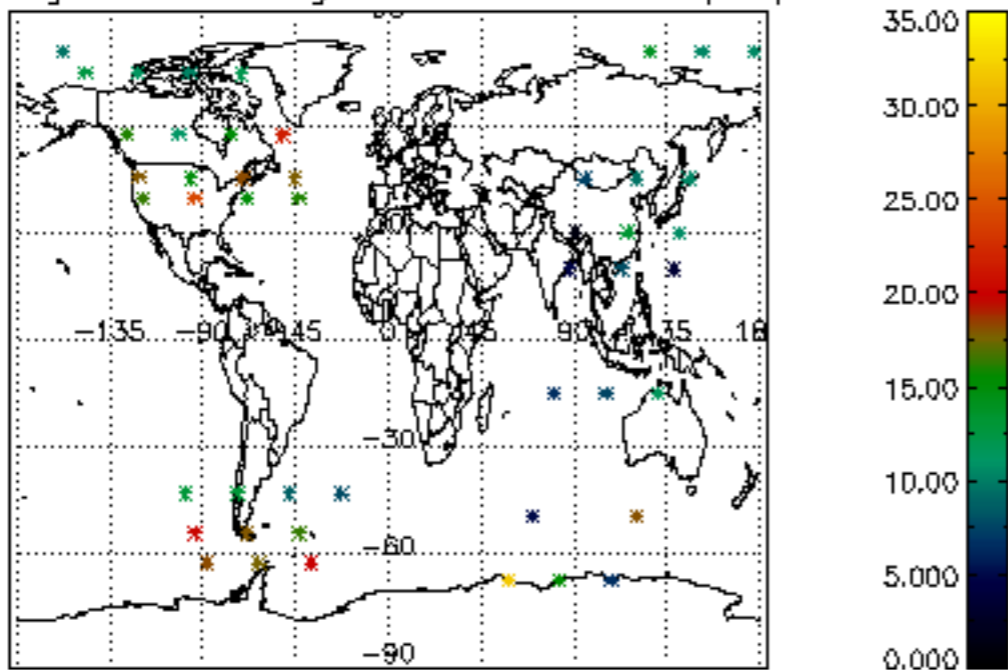
Percentage of cosmic ray hits per profile



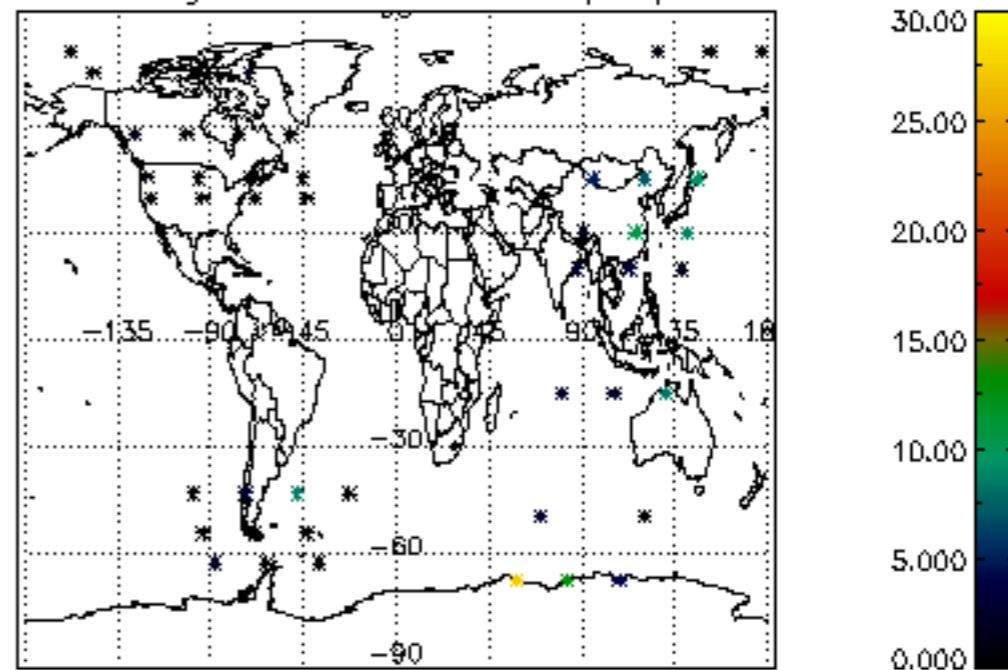
Percentage of datation errors per profile



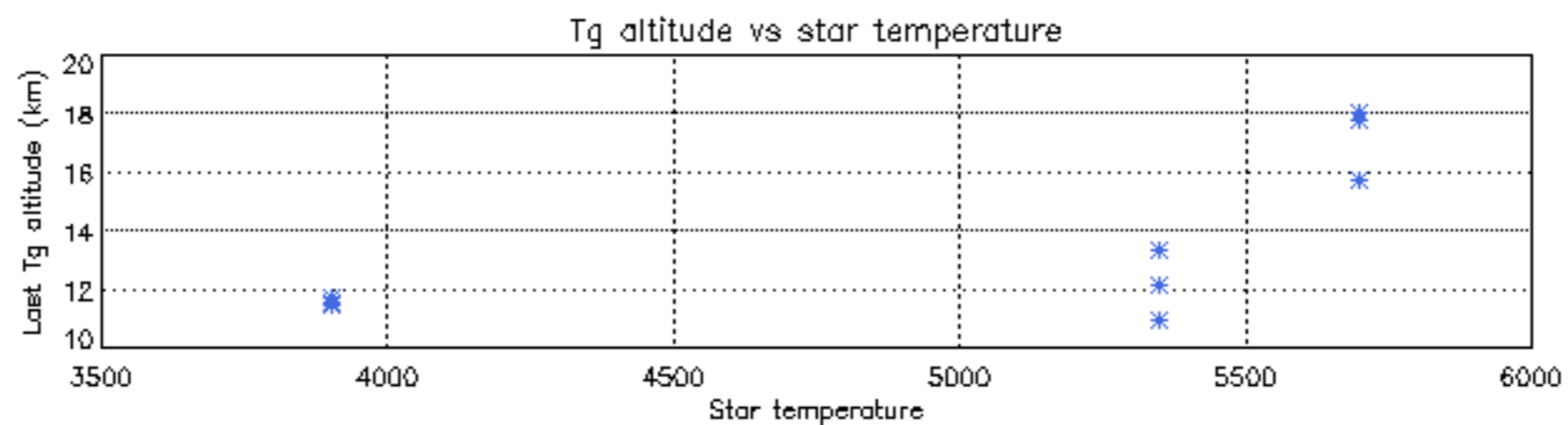
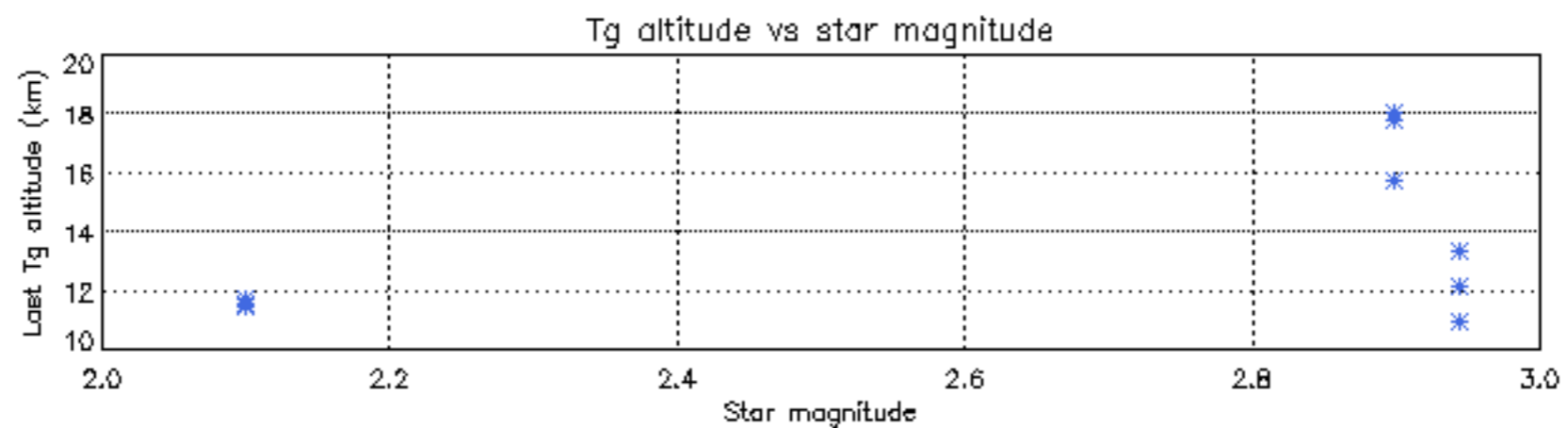
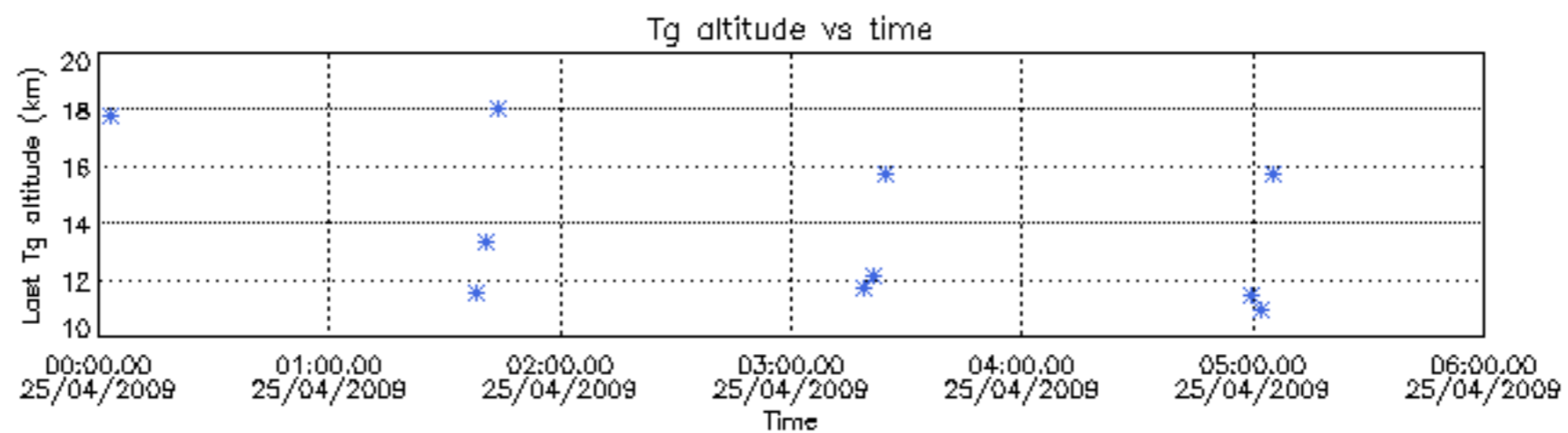
Percentage of star falling outside central band per profile



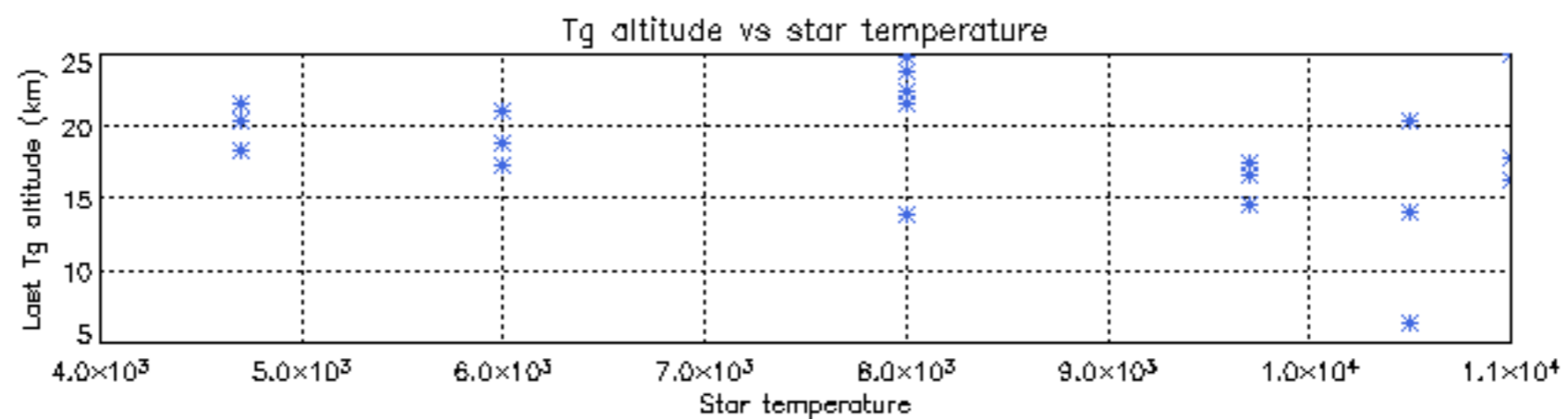
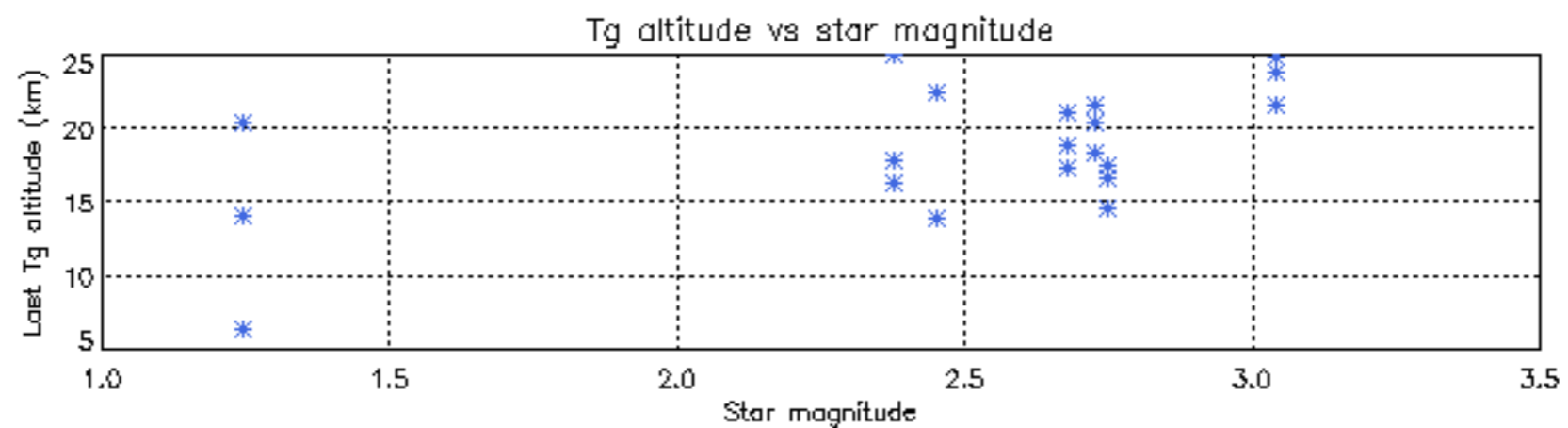
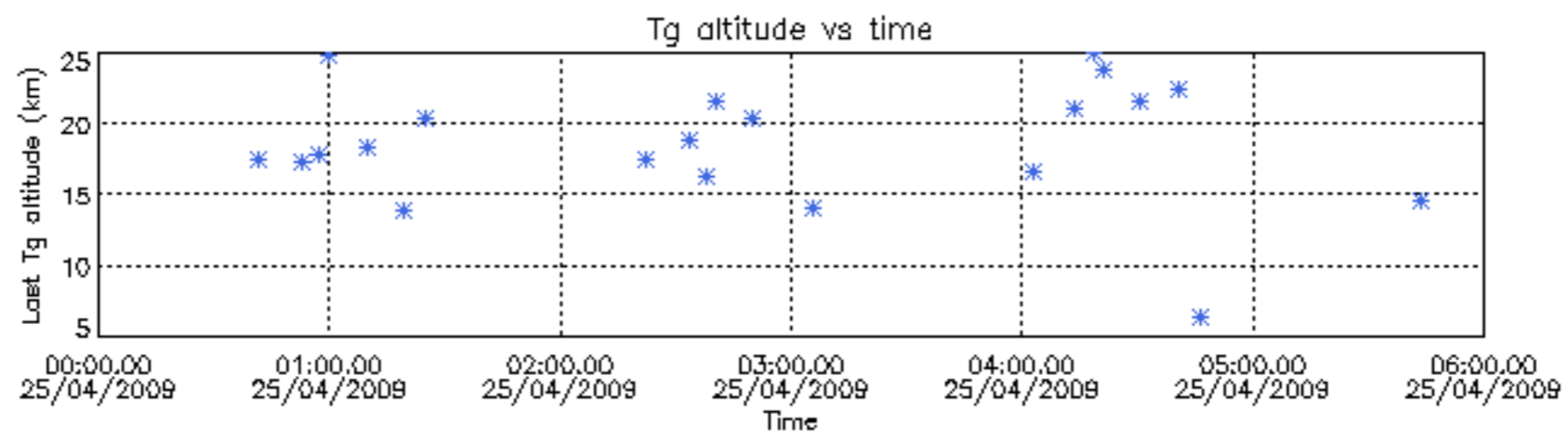
Percentage of saturation errors per profile

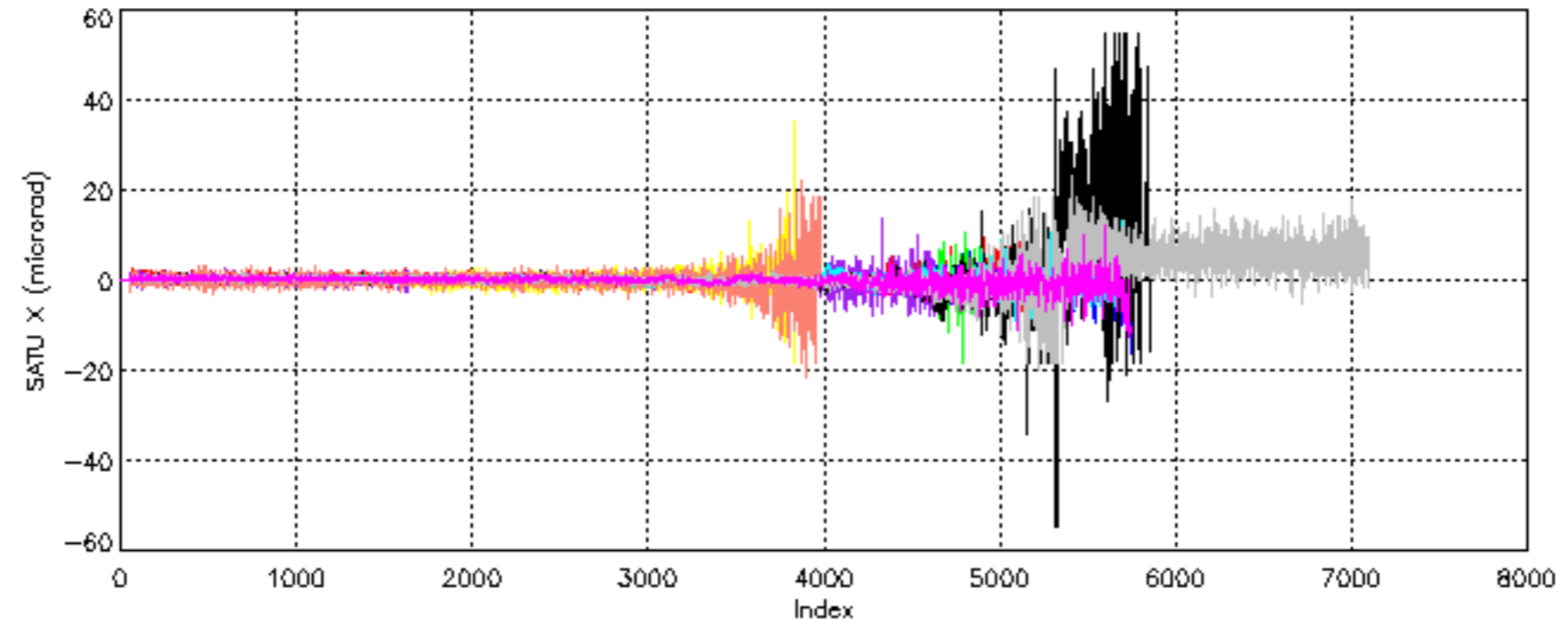


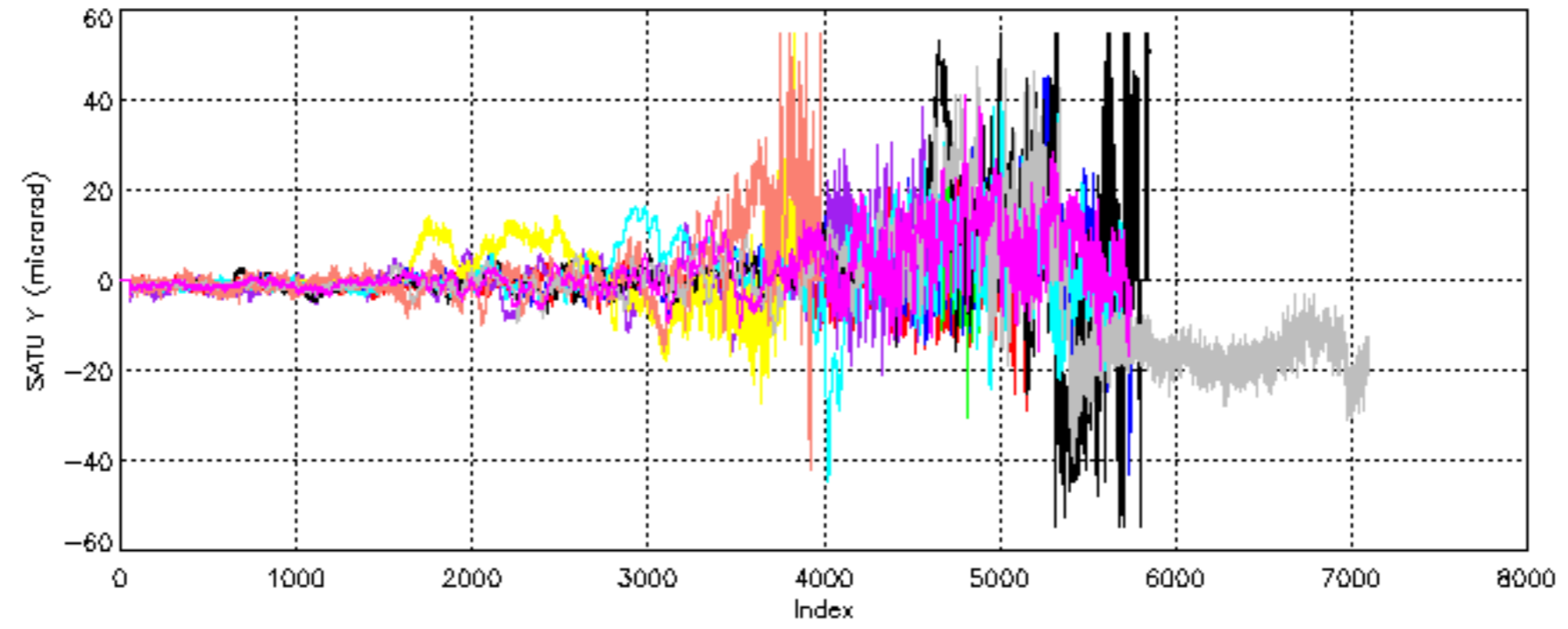
Tangent altitude at which the star is lost

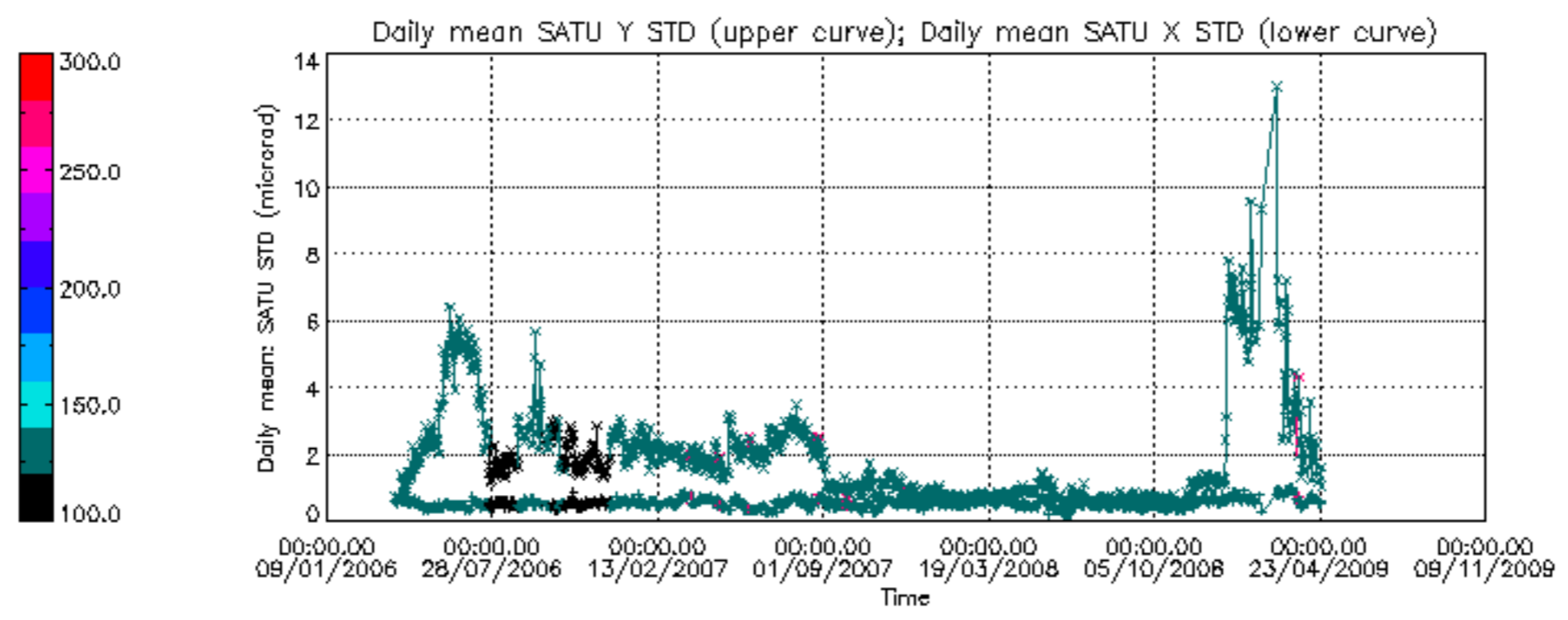


Tangent altitude at which the star is lost









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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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 14; 4197.2; 02-APR-2009 01:47:27; Bright; 46.0; 144; 18Del Cyg ; 2.86; 11000;occ; 92; 0;37059
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 2; 1263.6; 30-APR-2009 16:24:06; Dark ; 34.0; 16; 21Alp Sco ; 1.02; 3000;occ; 68; 0;37469
 3; 1399.5; 30-APR-2009 16:26:22; Dark ; 62.5; 80; 7Del Sco ; 2.32; 30000;occ; 125; 0;37469
 4; 1590.3; 30-APR-2009 16:29:33; Bright; 42.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 85; 0;37469
 5; 1728.8; 30-APR-2009 16:31:51; Bright; 49.0; 104; 27Bet Lib ; 2.61; 13100;occ; 98; 0;37469
 6; 2265.7; 30-APR-2009 16:40:48; Bright; 40.0; 3; 16Alp Boo ; -0.05; 4250;occ; 80; 0;37469
 7; 2458.0; 30-APR-2009 16:44:01; Bright; 44.0; 83; ; 2.38; 11000;occ; 88; 0;37469
 8; 2637.9; 30-APR-2009 16:47:00; Bright; 42.0; 180; 27Gam Boo ; 3.04; 8000;occ; 84; 0;37469
 9; 3212.8; 30-APR-2009 16:56:35; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;37469
10; 3829.7; 30-APR-2009 17:06:52; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;37469
11; 4508.3; 30-APR-2009 17:18:11; Bright; 42.0; 164; 44Eta Peg ; 2.95; 5400;occ; 84; 0;37469
12; 5029.9; 30-APR-2009 17:26:52; Dark ; 72.5; 61; 8Eps Peg ; 2.10; 3900;occ; 145; 0;37469
13; 5175.8; 30-APR-2009 17:29:18; Dark ; 53.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 107; 0;37469
14; 5397.8; 30-APR-2009 17:33:00; Dark ; 59.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 118; 0;37469
15; 5554.6; 30-APR-2009 17:35:37; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37469
16; 6781.1; 30-APR-2009 17:56:04; Dark ; 56.0; 40; The Sco ; 1.86; 7100;occ; 112; 0;37469
17; 6886.2; 30-APR-2009 17:57:49; Dark ; 63.0; 25; 35Lam Sco ; 1.62; 28000;occ; 126; 0;37469
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 1; 1038.4; 30-APR-2009 18:00:57; Dark ; 61.0; 75; 26Eps Sco ; 2.29; 4250;occ; 122; 0;37470
 2; 1264.4; 30-APR-2009 18:04:43; Dark ; 38.0; 16; 21Alp Sco ; 1.02; 3000;occ; 76; 0;37470
 3; 1399.8; 30-APR-2009 18:06:58; Dark ; 65.5; 80; 7Del Sco ; 2.32; 30000;occ; 131; 0;37470
 4; 1590.6; 30-APR-2009 18:10:09; Bright; 44.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 88; 0;37470
 5; 1728.6; 30-APR-2009 18:12:27; Bright; 50.0; 104; 27Bet Lib ; 2.61; 13100;occ; 100; 0;37470
 6; 2265.5; 30-APR-2009 18:21:24; Bright; 60.0; 3; 16Alp Boo ; -0.05; 4250;occ; 120; 0;37470
 7; 2457.3; 30-APR-2009 18:24:36; Bright; 46.0; 83; ; 2.38; 11000;occ; 92; 0;37470
 8; 2637.6; 30-APR-2009 18:27:36; Bright; 40.5; 180; 27Gam Boo ; 3.04; 8000;occ; 81; 0;37470

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9;	3212.1;	30-APR-2009	18:37:11;	Bright;	44.0;	119;	14Eta Dra	;	2.73;	4700;occ;	88;	0;37470
10;	3829.2;	30-APR-2009	18:47:28;	Bright;	59.0;	89;	5Alp Cep	;	2.45;	8000;occ;	118;	0;37470
11;	4508.2;	30-APR-2009	18:58:47;	Dark	;	45.5;	164; 44Eta Peg	;	2.95;	5400;occ;	91;	0;37470
12;	5030.5;	30-APR-2009	19:07:29;	Dark	;	70.5;	61; 8Eps Peg	;	2.10;	3900;occ;	141;	0;37470
13;	5176.5;	30-APR-2009	19:09:55;	Dark	;	58.0;	162; 34Alp Aqr	;	2.94;	5350;occ;	116;	0;37470
14;	5398.8;	30-APR-2009	19:13:37;	Dark	;	61.5;	154; 22Bet Aqr	;	2.90;	5700;occ;	123;	0;37470
15;	5555.7;	30-APR-2009	19:16:14;	Dark	;	59.5;	0;	;	0.00;	0;occ;	119;	0;37470
16;	6782.4;	30-APR-2009	19:36:41;	Dark	;	50.5;	40; The Sco	;	1.86;	7100;occ;	101;	0;37470
17;	6887.0;	30-APR-2009	19:38:26;	Dark	;	62.0;	25; 35Lam Sco	;	1.62;	28000;occ;	124;	0;37470
18;	7074.9;	30-APR-2009	19:41:33;	Dark	;	3.5;	75; 26Eps Sco	;	2.29;	4250;occ;	7;	0;37470