

GOMOS Daily Report 30-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	08MAY2009 04:59:58
Data source version	GOMOS/5.00
Start time of products	30APR2009 00:01:06
Stop time of products	30APR2009 04:47:40
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)

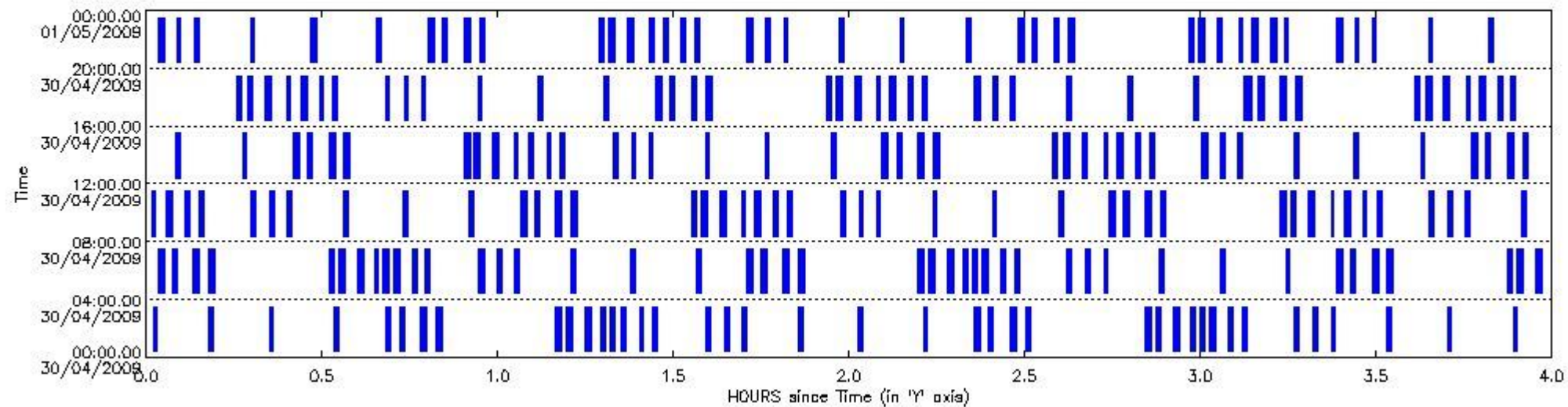
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

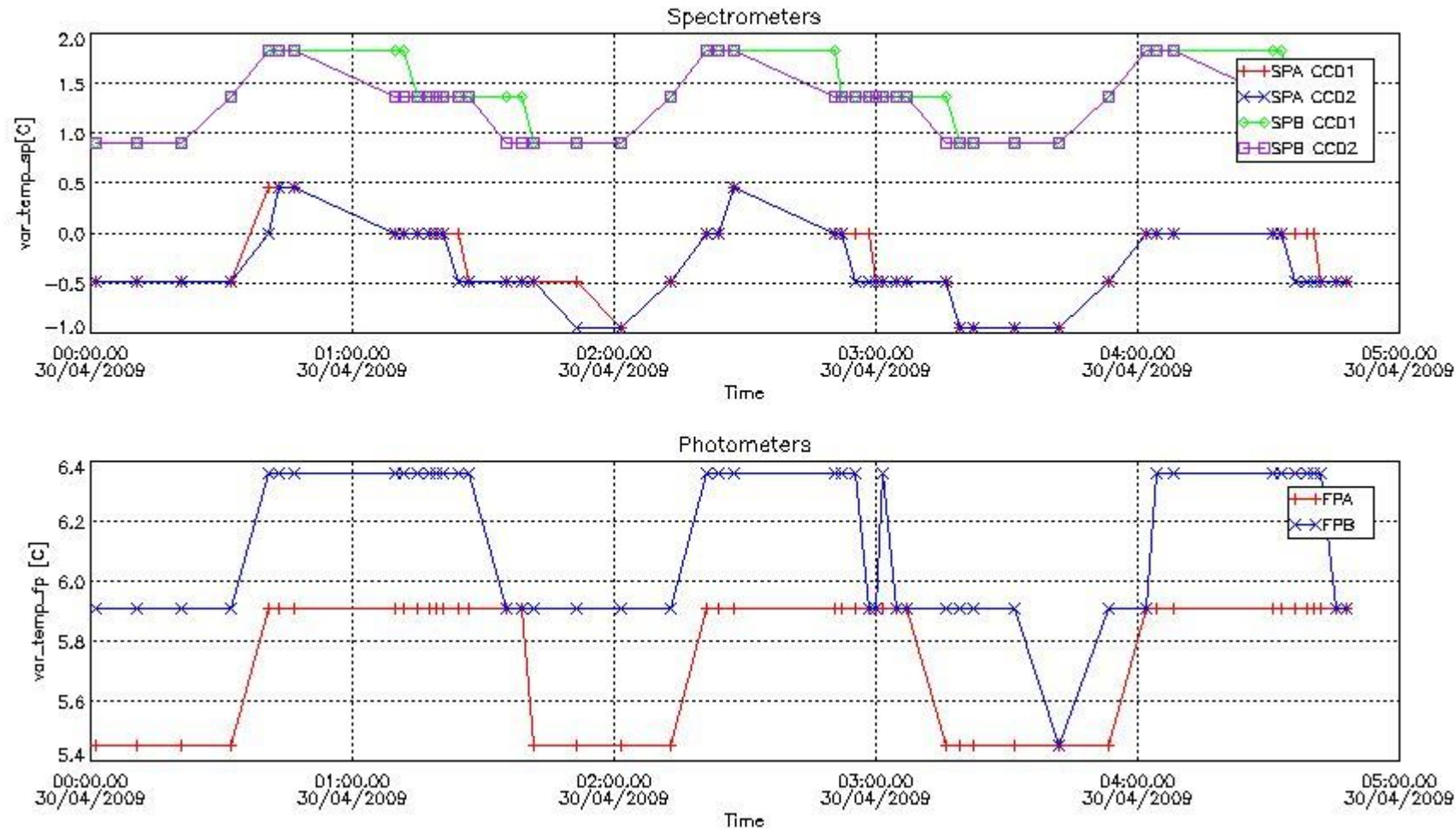
No missing products.

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_1PNPDE20090430_000106_000000442078_00331_37459_4562.N1	30-APR-2009 00:01:06	Bright	44.000	180	27Gam Boo	3.0400	8000.0	88	37459	No
2	GOM_TRA_1PNPDE20090430_001042_000000442078_00331_37459_4563.N1	30-APR-2009 00:10:42	Bright	43.500	119	14Eta Dra	2.7270	4700.0	87	37459	No
3	GOM_TRA_1PNPDE20090430_002056_000000412078_00331_37459_4564.N1	30-APR-2009 00:20:56	Bright	41.000	89	5Alp Cep	2.4510	8000.0	82	37459	No
4	GOM_TRA_1PNPDE20090430_003210_000000432078_00331_37459_4565.N1	30-APR-2009 00:32:10	Bright	42.500	164	44Eta Peg	2.9480	5400.0	85	37459	No
5	GOM_TRA_1PNPDE20090430_004045_000000632078_00331_37459_4566.N1	30-APR-2009 00:40:45	Dark	63.000	61	8Eps Peg	2.1000	3900.0	126	37459	No
6	GOM_TRA_1PNPDE20090430_004311_000000512078_00331_37459_4567.N1	30-APR-2009 00:43:11	Dark	50.500	162	34Alp Aqr	2.9440	5350.0	101	37459	No
7	GOM_TRA_1PNPDE20090430_004649_000000582078_00331_37459_4757.N1	30-APR-2009 00:46:49	Dark	57.500	154	22Bet Aqr	2.8990	5700.0	115	37459	No
8	GOM_TRA_1PNPDE20090430_010955_000000562078_00332_37460_4758.N1	30-APR-2009 01:09:55	Straylight	56.000	40	The Sco	1.8590	7100.0	112	37460	No
9	GOM_TRA_1PNPDE20090430_011139_000000632078_00332_37460_4759.N1	30-APR-2009 01:11:39	Straylight	62.500	25	35Lam Sco	1.6200	28000.	125	37460	No
10	GOM_TRA_1PNPDE20090430_011450_000000612078_00332_37460_4760.N1	30-APR-2009 01:14:50	Straylight	60.500	75	26Eps Sco	2.2910	4250.0	121	37460	No
11	GOM_TRA_1PNPDE20090430_011742_000000422078_00332_37460_4761.N1	30-APR-2009 01:17:42	Twilight_stray	42.000	136	23Tau Sco	2.8220	30000.	84	37460	No
12	GOM_TRA_1PNPDE20090430_011914_000000472078_00332_37460_4762.N1	30-APR-2009 01:19:14	Twilight_stray	47.000	156	20Sig Sco	2.9030	28000.	94	37460	No

13	GOM_TRA_1PNPDE20090430_012056_000000622078_00332_37460_4763.N1	30-APR-2009 01:20:56	Twilight	61.500	80	7Del Sco	2.3160	30000.	123	37460	No
14	GOM_TRA_1PNPDE20090430_012408_000000452078_00332_37460_4764.N1	30-APR-2009 01:24:08	Bright	44.500	122	9Alp2Lib	2.7470	9700.0	89	37460	No
15	GOM_TRA_1PNPDE20090430_012628_000000502078_00332_37460_4765.N1	30-APR-2009 01:26:28	Bright	49.500	104	27Bet Lib	2.6140	13100.	99	37460	No
16	GOM_TRA_1PNPDE20090430_013527_000000452078_00332_37460_4766.N1	30-APR-2009 01:35:27	Bright	44.500	3	16Alp Boo	-0.050000	4250.0	89	37460	No
17	GOM_TRA_1PNPDE20090430_013842_000000432078_00332_37460_4767.N1	30-APR-2009 01:38:42	Bright	43.000	83		2.3780	11000.	86	37460	No
18	GOM_TRA_1PNPDE20090430_014142_000000412078_00332_37460_4768.N1	30-APR-2009 01:41:42	Bright	41.000	180	27Gam Boo	3.0400	8000.0	82	37460	No
19	GOM_TRA_1PNPDE20090430_015117_000000452078_00332_37460_4769.N1	30-APR-2009 01:51:17	Bright	44.500	119	14Eta Dra	2.7270	4700.0	89	37460	No
20	GOM_TRA_1PNPDE20090430_020132_000000412078_00332_37460_4770.N1	30-APR-2009 02:01:32	Bright	40.500	89	5Alp Cep	2.4510	8000.0	81	37460	No
21	GOM_TRA_1PNPDE20090430_021246_000000382078_00332_37460_4771.N1	30-APR-2009 02:12:46	Bright	37.500	164	44Eta Peg	2.9480	5400.0	75	37460	No
22	GOM_TRA_1PNPDE20090430_022122_000000642078_00332_37460_4940.N1	30-APR-2009 02:21:22	Dark	63.500	61	8Eps Peg	2.1000	3900.0	127	37460	No
23	GOM_TRA_1PNPDE20090430_022348_000000522078_00332_37460_4941.N1	30-APR-2009 02:23:48	Dark	51.500	162	34Alp Aqr	2.9440	5350.0	103	37460	No
24	GOM_TRA_1PNPDE20090430_022726_000000622078_00332_37460_4942.N1	30-APR-2009 02:27:26	Dark	61.500	154	22Bet Aqr	2.8990	5700.0	123	37460	No
25	GOM_TRA_1PNPDE20090430_025032_000000612078_00333_37461_4943.N1	30-APR-2009 02:50:32	Straylight	61.000	40	The Sco	1.8590	7100.0	122	37461	No
26	GOM_TRA_1PNPDE20090430_025216_000000602078_00333_37461_4944.N1	30-APR-2009 02:52:16	Straylight	59.500	25	35Lam Sco	1.6200	28000.	119	37461	No
27	GOM_TRA_1PNPDE20090430_025527_000000592078_00333_37461_4945.N1	30-APR-2009 02:55:27	Straylight	59.000	75	26Eps Sco	2.2910	4250.0	118	37461	No
28	GOM_TRA_1PNPDE20090430_025818_000000422078_00333_37461_4946.N1	30-APR-2009 02:58:18	Twilight	42.000	136	23Tau Sco	2.8220	30000.	84	37461	No
29	GOM_TRA_1PNPDE20090430_025950_000000472078_00333_37461_4947.N1	30-APR-2009 02:59:50	Twilight	47.000	156	20Sig Sco	2.9030	28000.	94	37461	No
30	GOM_TRA_1PNPDE20090430_030132_000000602078_00333_37461_4948.N1	30-APR-2009 03:01:32	Twilight	60.000	80	7Del Sco	2.3160	30000.	120	37461	No
31	GOM_TRA_1PNPDE20090430_030444_000000472078_00333_37461_4949.N1	30-APR-2009 03:04:44	Bright	46.500	122	9Alp2Lib	2.7470	9700.0	93	37461	No
32	GOM_TRA_1PNPDE20090430_030704_000000512078_00333_37461_4950.N1	30-APR-2009 03:07:04	Bright	50.500	104	27Bet Lib	2.6140	13100.	101	37461	No
33	GOM_TRA_1PNPDE20090430_031603_000000432078_00333_37461_4951.N1	30-APR-2009 03:16:03	Bright	43.000	3	16Alp Boo	-0.050000	4250.0	86	37461	No
34	GOM_TRA_1PNPDE20090430_031917_000000442078_00333_37461_4952.N1	30-APR-2009 03:19:17	Bright	44.000	83		2.3780	11000.	88	37461	No
35	GOM_TRA_1PNPDE20090430_032217_000000432078_00333_37461_4953.N1	30-APR-2009 03:22:17	Bright	43.000	180	27Gam Boo	3.0400	8000.0	86	37461	No
36	GOM_TRA_1PNPDE20090430_033153_000000462078_00333_37461_4954.N1	30-APR-2009 03:31:53	Bright	45.500	119	14Eta Dra	2.7270	4700.0	91	37461	No
37	GOM_TRA_1PNPDE20090430_034207_000000412078_00333_37461_5086.N1	30-APR-2009 03:42:07	Bright	41.000	89	5Alp Cep	2.4510	8000.0	82	37461	No
38	GOM_TRA_1PNPDE20090430_035322_000000432078_00333_37461_5087.N1	30-APR-2009 03:53:22	Bright	42.500	164	44Eta Peg	2.9480	5400.0	85	37461	No
39	GOM_TRA_1PNPDE20090430_040158_000000682078_00333_37461_5088.N1	30-APR-2009 04:01:58	Dark	68.000	61	8Eps Peg	2.1000	3900.0	136	37461	No
40	GOM_TRA_1PNPDE20090430_040425_000000542078_00333_37461_5089.N1	30-APR-2009 04:04:25	Dark	54.000	162	34Alp Aqr	2.9440	5350.0	108	37461	No
41	GOM_TRA_1PNPDE20090430_040803_000000612078_00333_37461_5090.N1	30-APR-2009 04:08:03	Dark	61.000	154	22Bet Aqr	2.8990	5700.0	122	37461	No
42	GOM_TRA_1PNPDE20090430_043109_000000542078_00334_37462_5091.N1	30-APR-2009 04:31:09	Straylight	53.500	40	The Sco	1.8590	7100.0	107	37462	No
43	GOM_TRA_1PNPDE20090430_043253_000000612078_00334_37462_5092.N1	30-APR-2009 04:32:53	Straylight	61.000	25	35Lam Sco	1.6200	28000.	122	37462	No
44	GOM_TRA_1PNPDE20090430_043604_000000612078_00334_37462_5093.N1	30-APR-2009 04:36:04	Straylight	61.000	75	26Eps Sco	2.2910	4250.0	122	37462	No
45	GOM_TRA_1PNPDE20090430_043855_000000452078_00334_37462_5094.N1	30-APR-2009 04:38:55	Twilight	45.000	136	23Tau Sco	2.8220	30000.	90	37462	No
46	GOM_TRA_1PNPDE20090430_044027_000000512078_00334_37462_5095.N1	30-APR-2009 04:40:27	Twilight	51.000	156	20Sig Sco	2.9030	28000.	102	37462	No
47	GOM_TRA_1PNPDE20090430_044208_000000622078_00334_37462_5096.N1	30-APR-2009 04:42:08	Twilight	62.000	80	7Del Sco	2.3160	30000.	124	37462	No
48	GOM_TRA_1PNPDE20090430_044520_000000462078_00334_37462_5097.N1	30-APR-2009 04:45:20	Bright	46.000	122	9Alp2Lib	2.7470	9700.0	92	37462	No
49	GOM_TRA_1PNPDE20090430_044740_000000502078_00334_37462_5098.N1	30-APR-2009 04:47:40	Bright	50.000	104	27Bet Lib	2.6140	13100.	100	37462	No

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



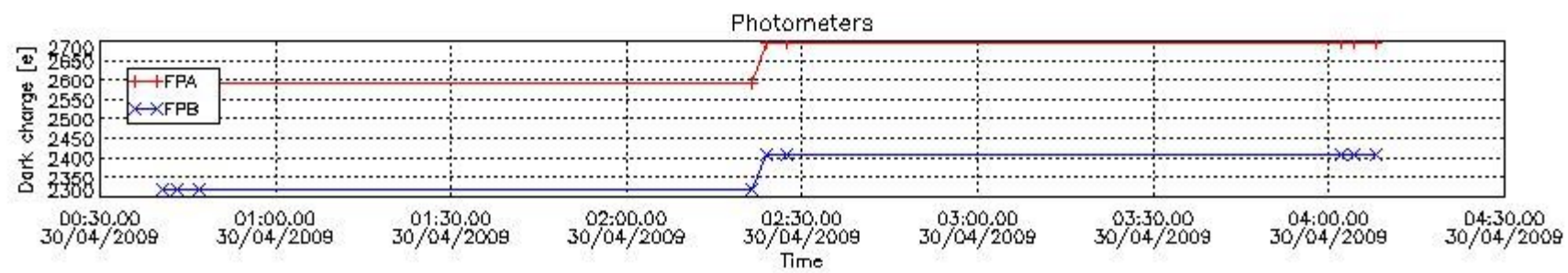
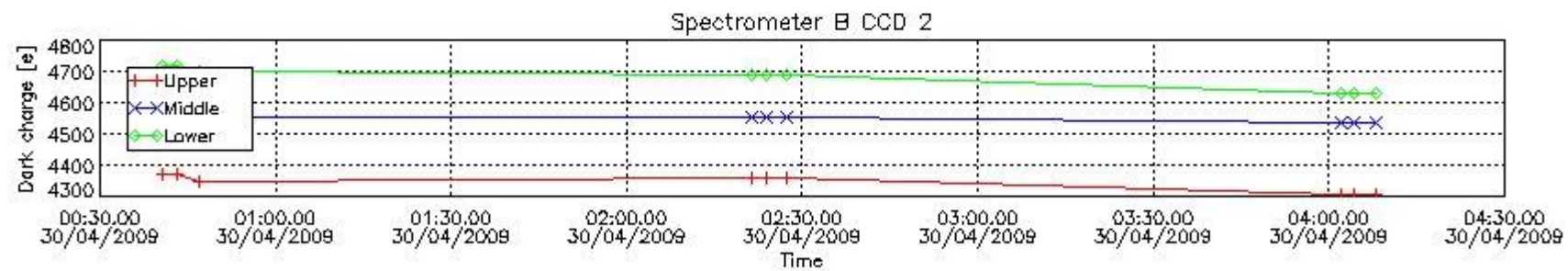
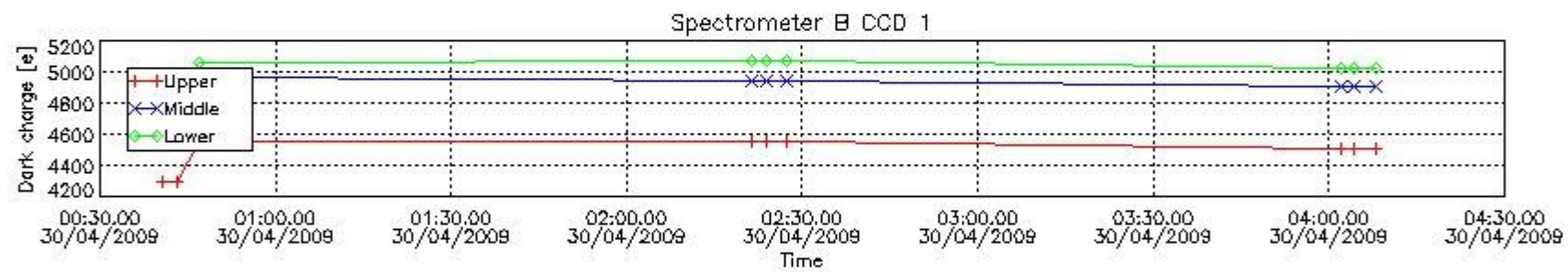
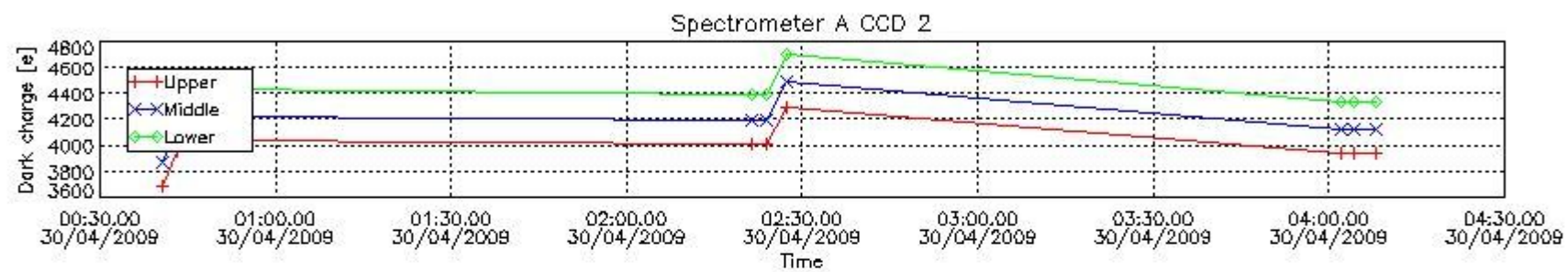
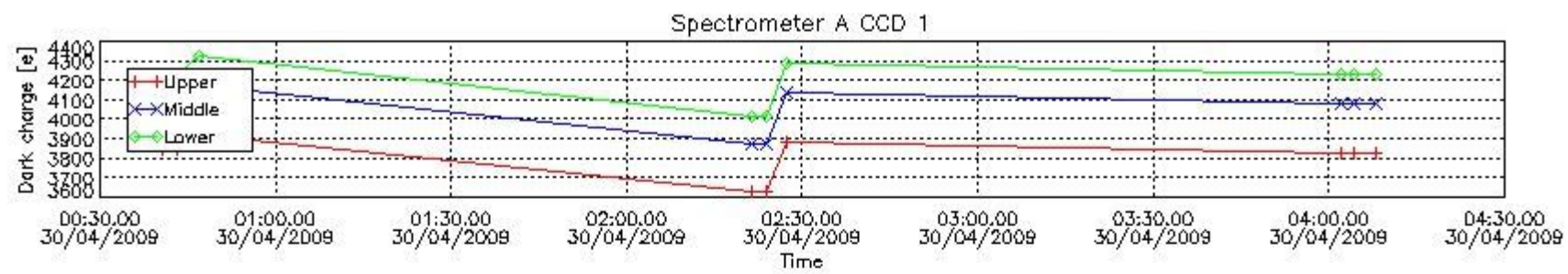
4. Overview of dark signal processing per product

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



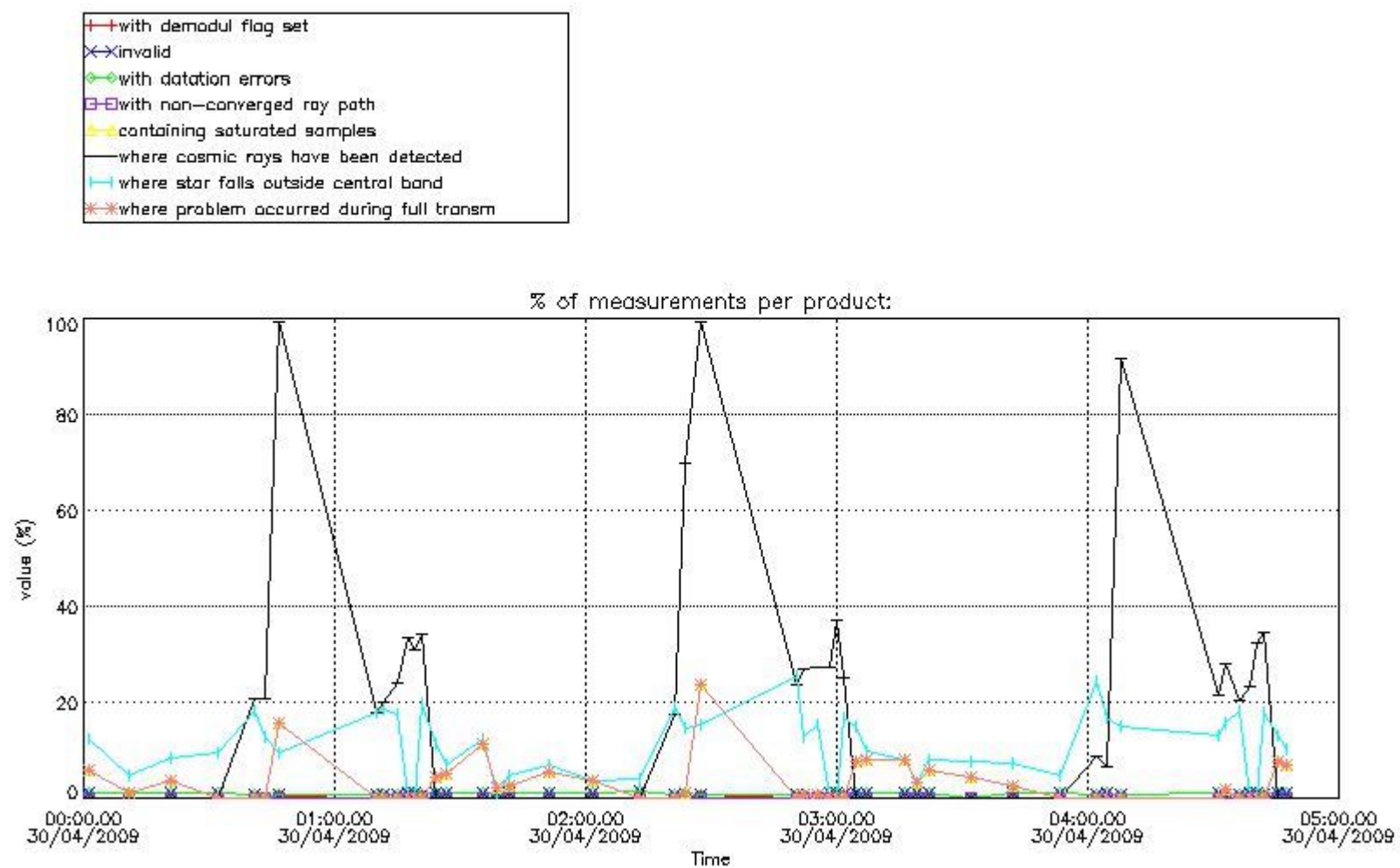
5. Demodulation flag and quality information monitoring

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.

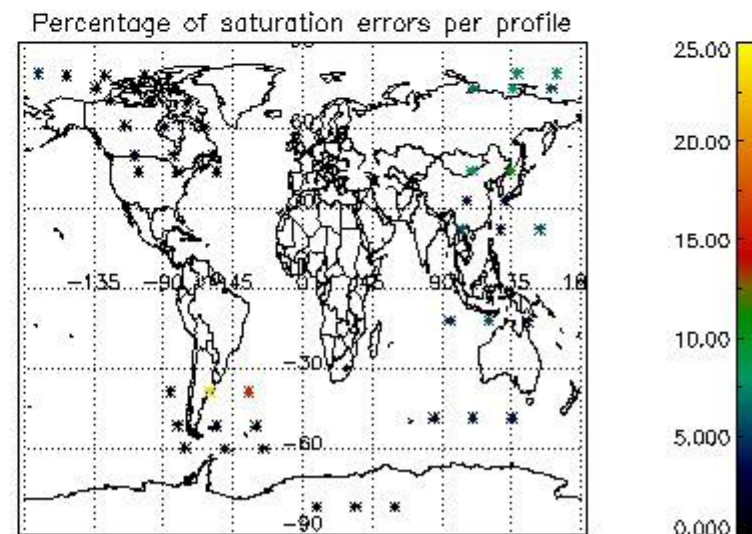
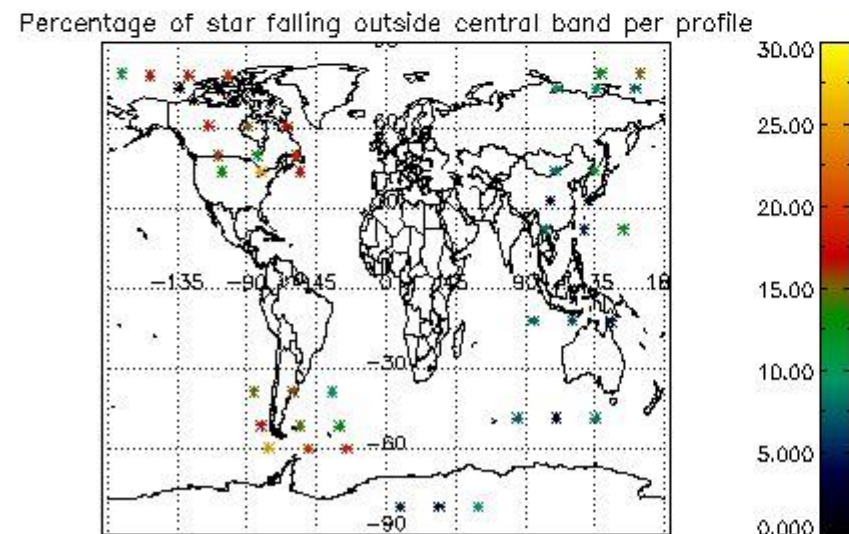
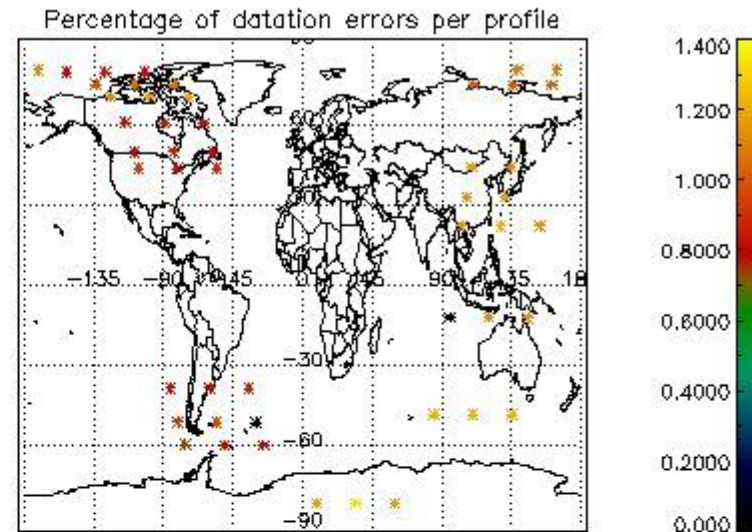
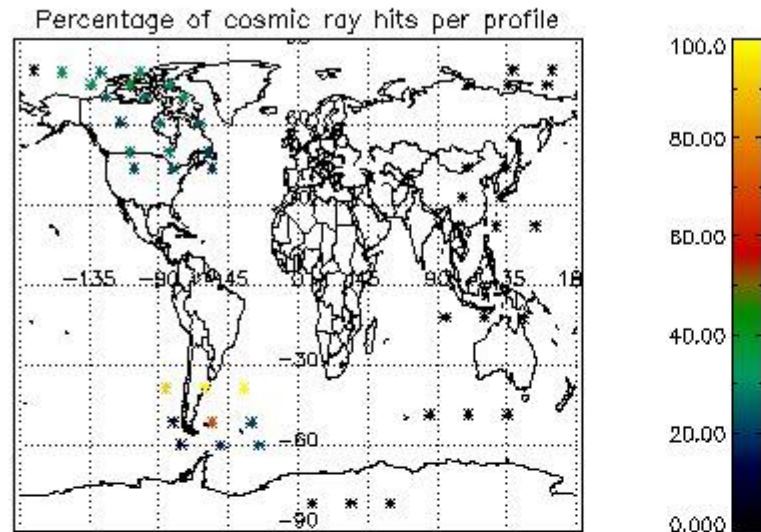
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	38.7755 %
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)



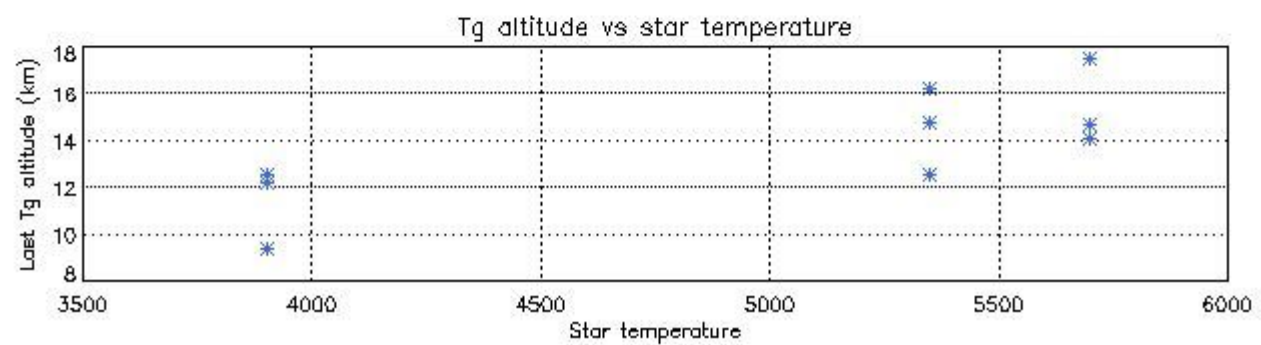
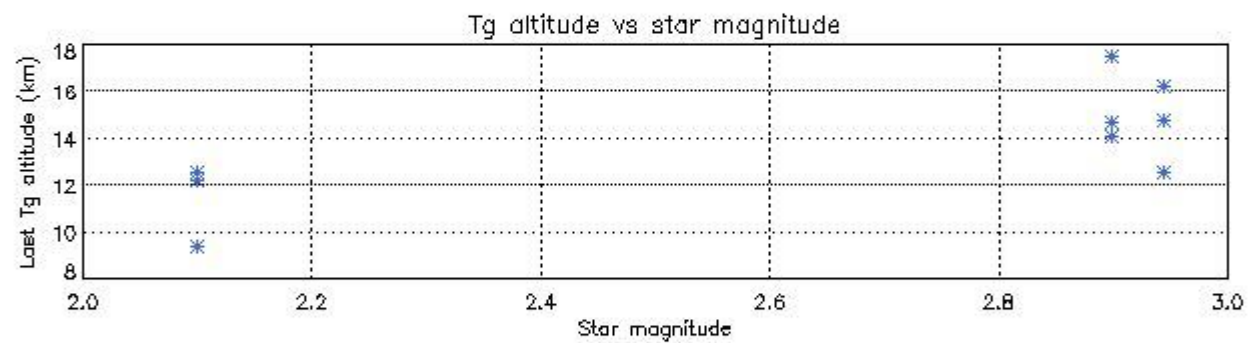
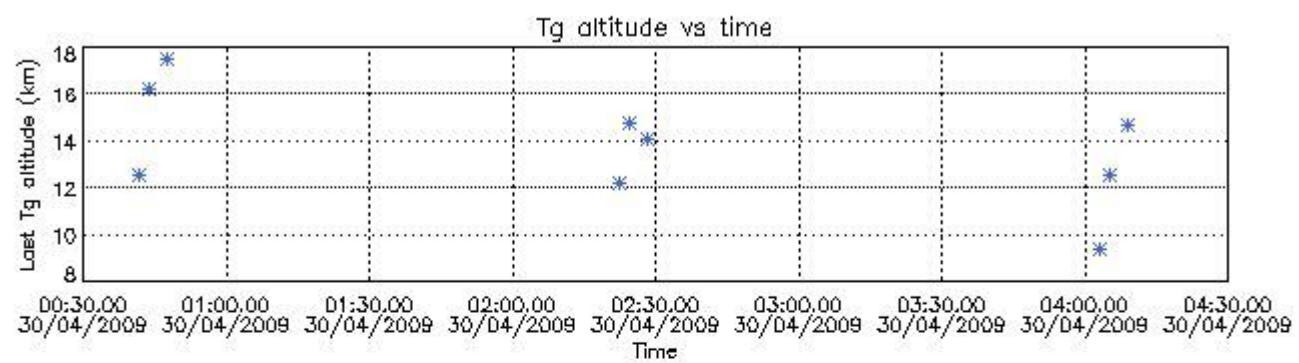
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.752	19.902	NaN
St. deviation:	2.4199	3.1021	NaN
Maximum:	17.515	27.637	NaN
Minimum:	9.3364	15.157	NaN
Number of data:	9.0000	22.000	NaN

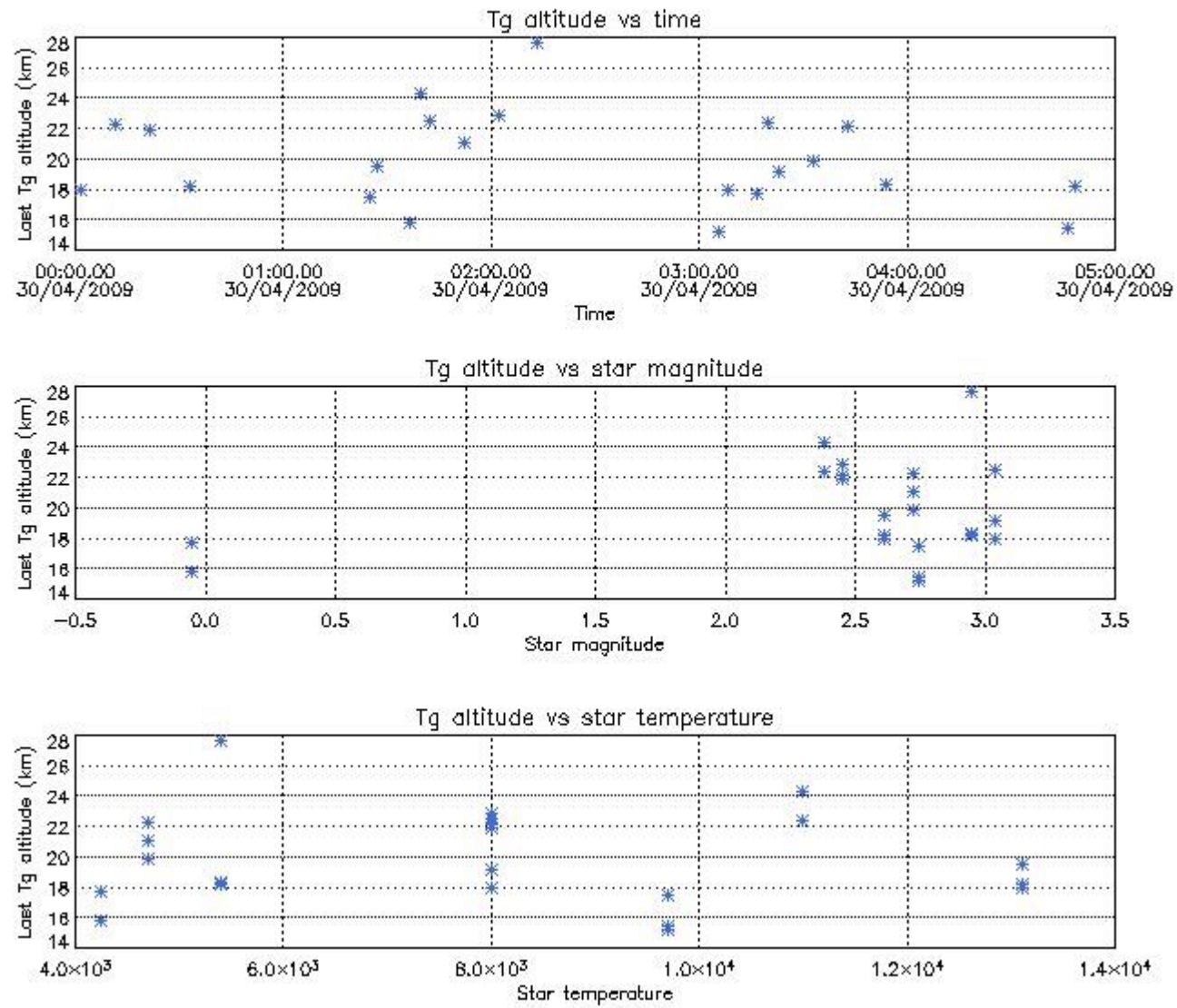
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

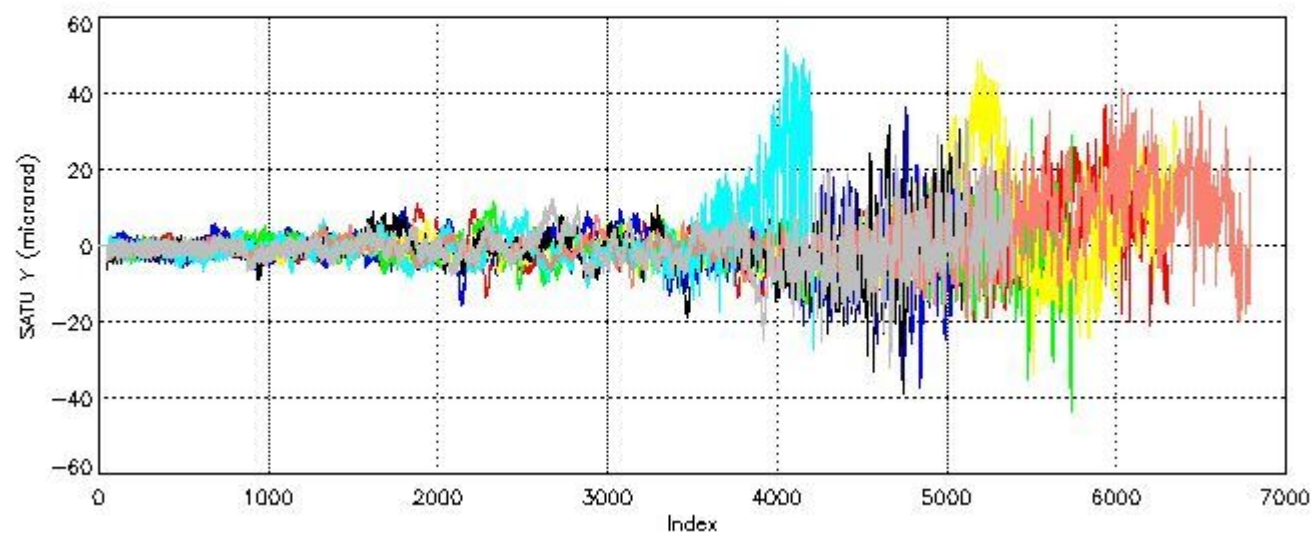
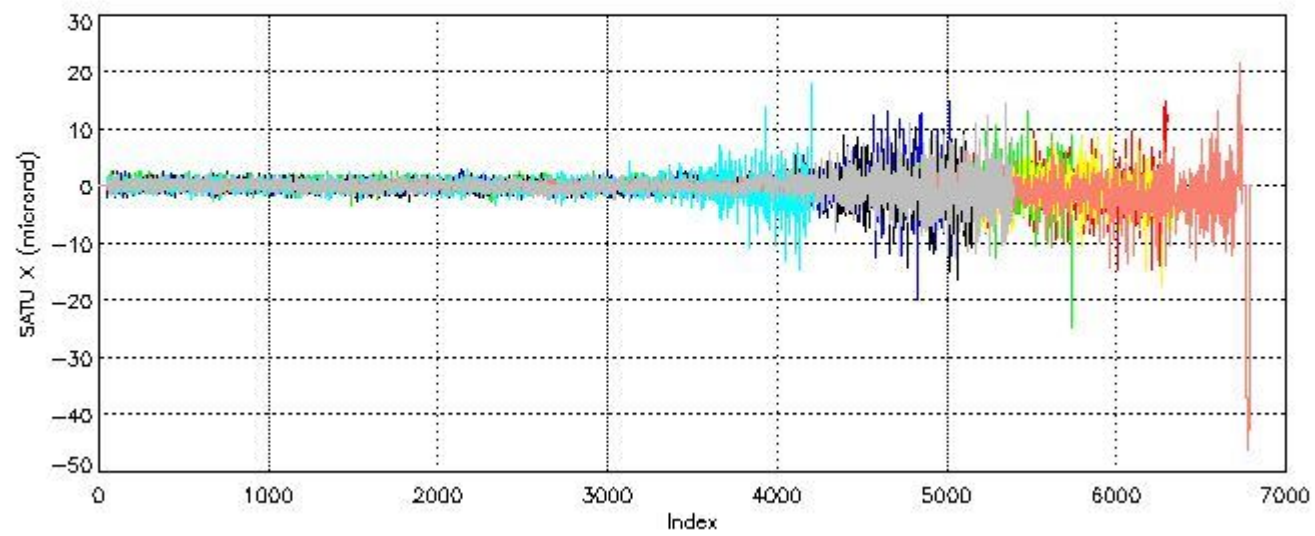


7. Star Acquisition and Tracking Unit (SATU)

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:	0.27879	-0.80777	0.31966	-1.1401
St. deviation:	0.60806	1.6431	0.96198	1.8594
Maximum:	3.1000	6.3000	5.7000	7.5000
Minimum:	-3.1000	-9.1000	-6.5000	-13.500

Number of data:	11300.	11300.	22100.	22100.
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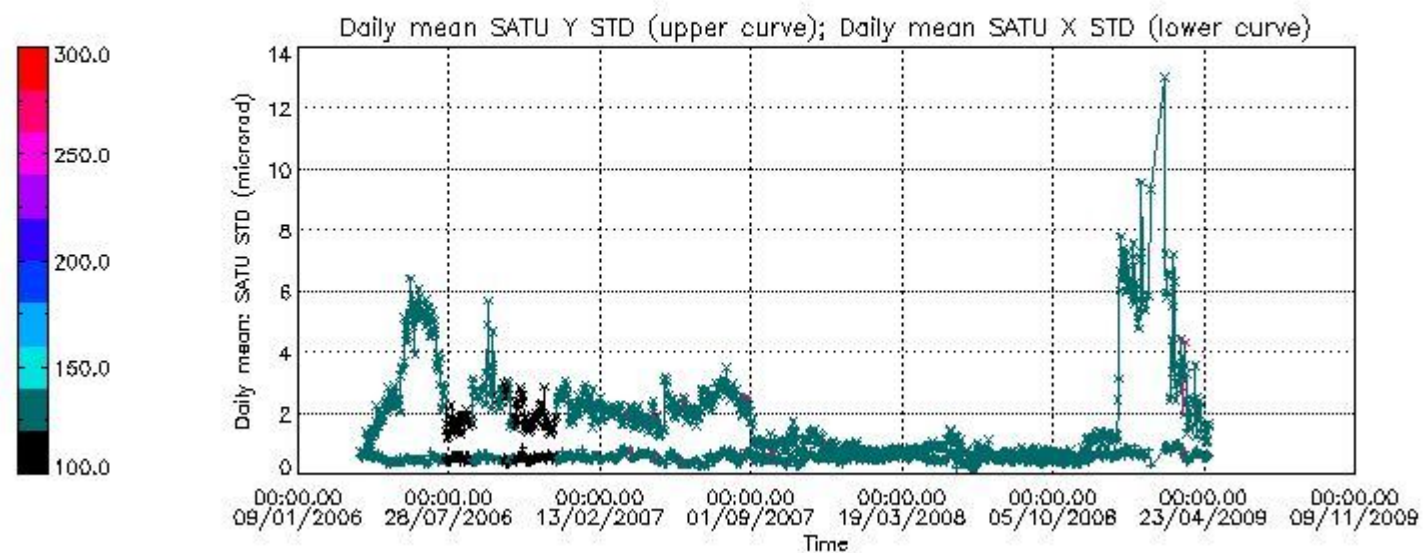
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

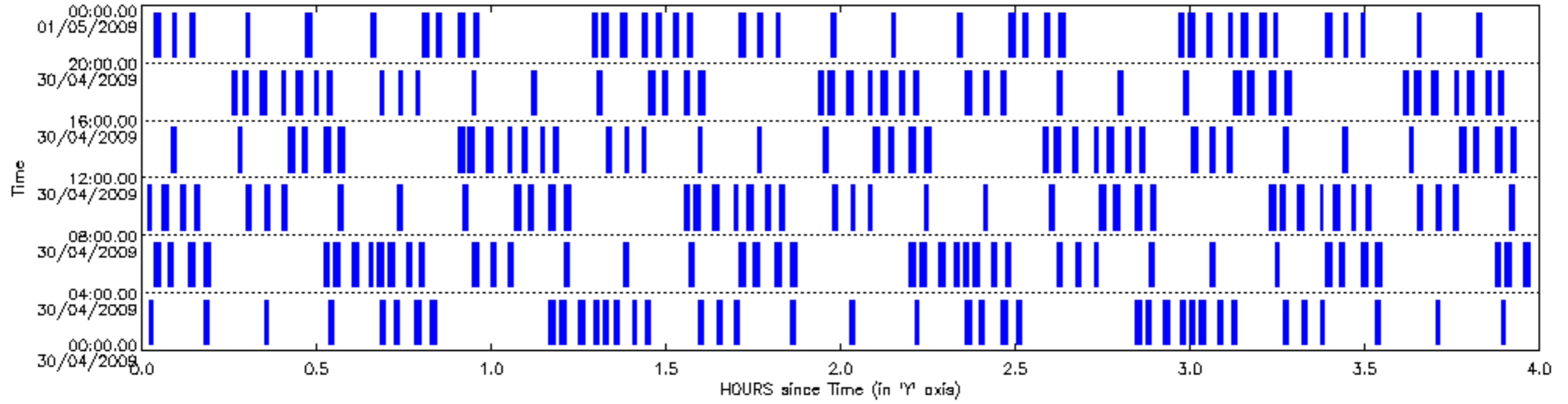
Lower curve: STD of SATU X axis

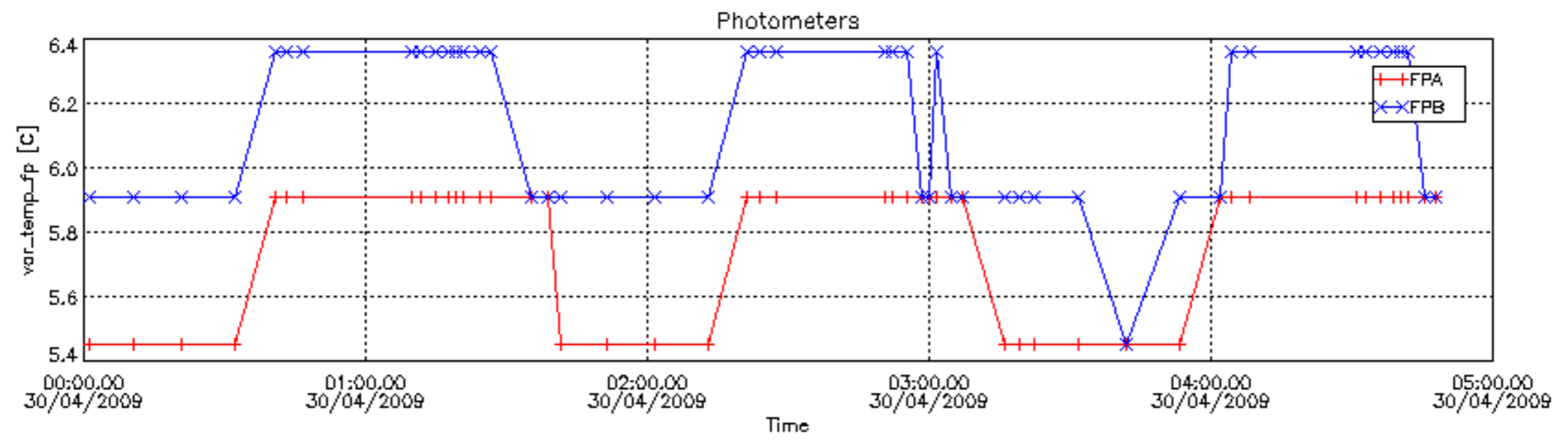
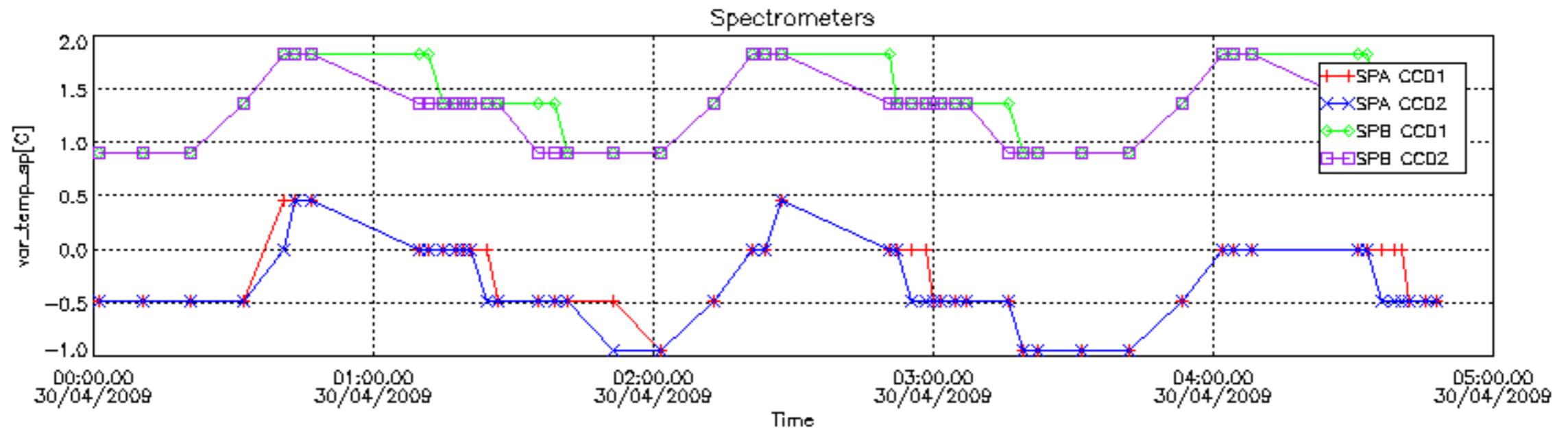


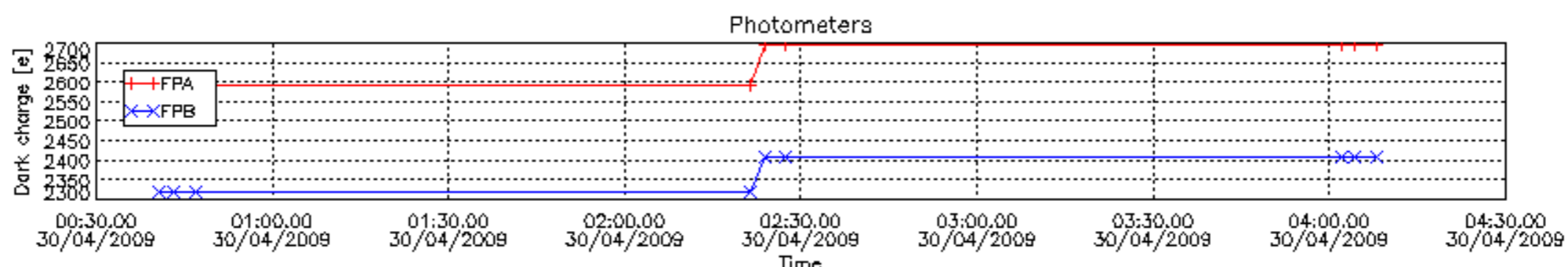
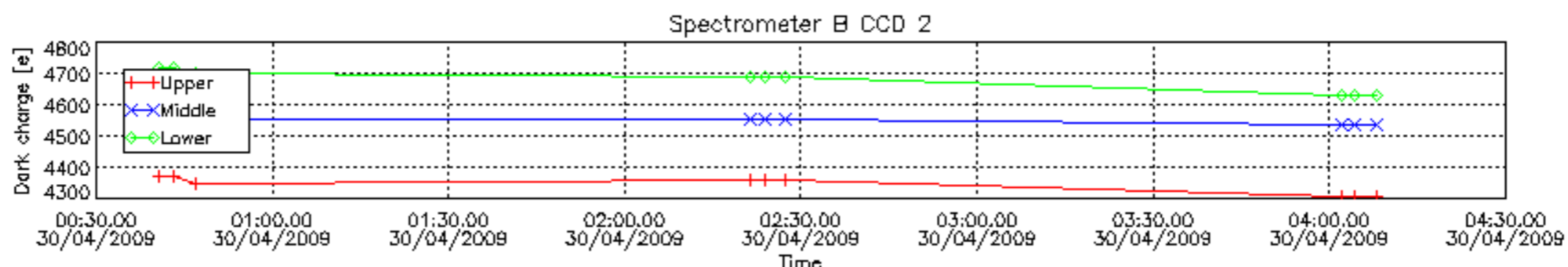
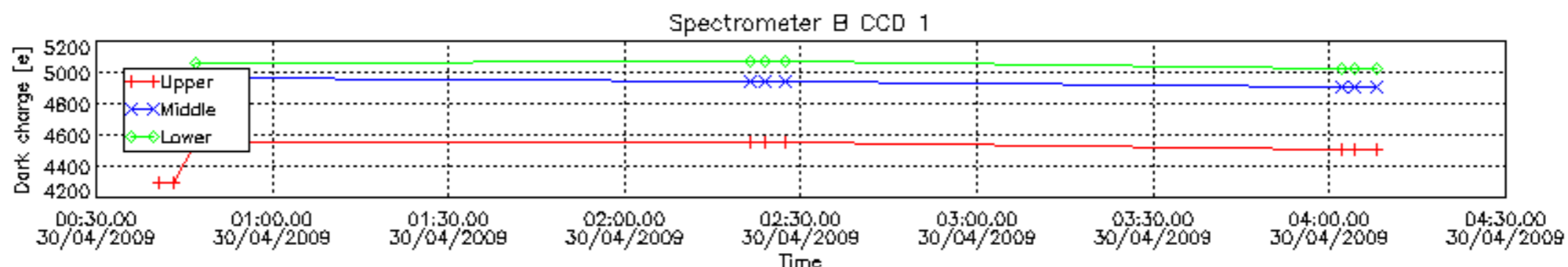
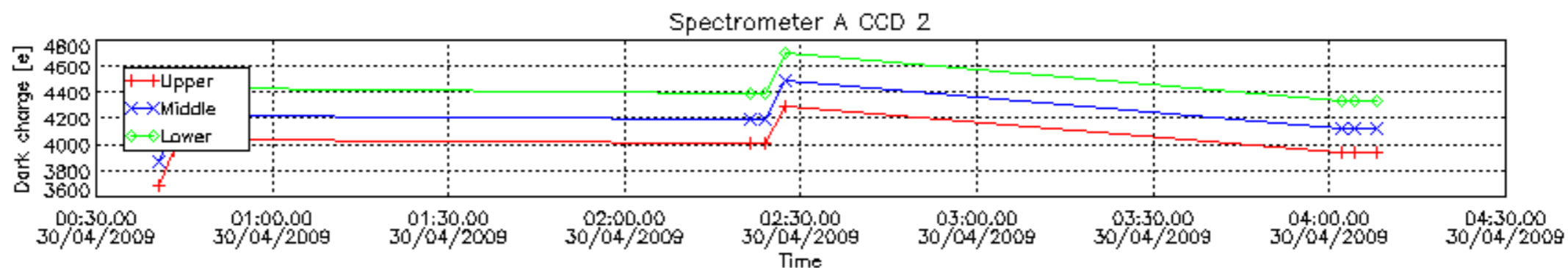
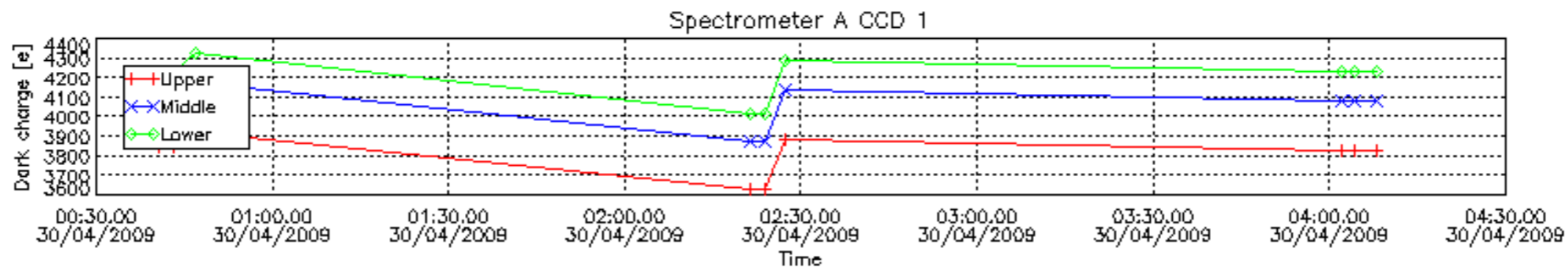
8. Auxiliary Data Files used for the production reported in section 2.4

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.

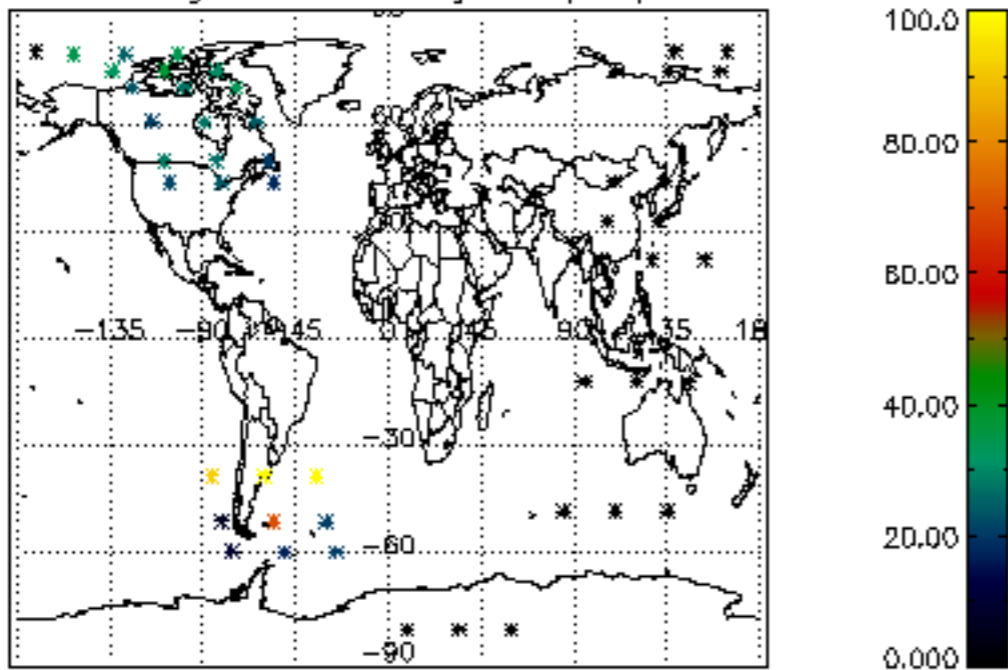
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	30-APR-2009 00:01:06
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090422_132334_20090420_000000_20100101_000000	1	30-APR-2009 00:01:06
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	30-APR-2009 00:01:06
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	30-APR-2009 00:01:06
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	30-APR-2009 00:01:06
ECMWF_FILE	AUX_ECF_AXNECM20090429_064112_20090429_210000_20090430_090000	1	30-APR-2009 00:01:06
OPTIONAL_ECMWF_FILE	MISSING	1	30-APR-2009 00:01:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090429_211823_000060572078_00329_37457_7845.N1	1	30-APR-2009 00:01:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090429_225920_000060572078_00330_37458_7846.N1	7	30-APR-2009 00:46:49
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090430_004017_000054192078_00331_37459_7847.N1	22	30-APR-2009 02:21:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090430_021555_000044632078_00332_37460_7848.N1	37	30-APR-2009 03:42:07



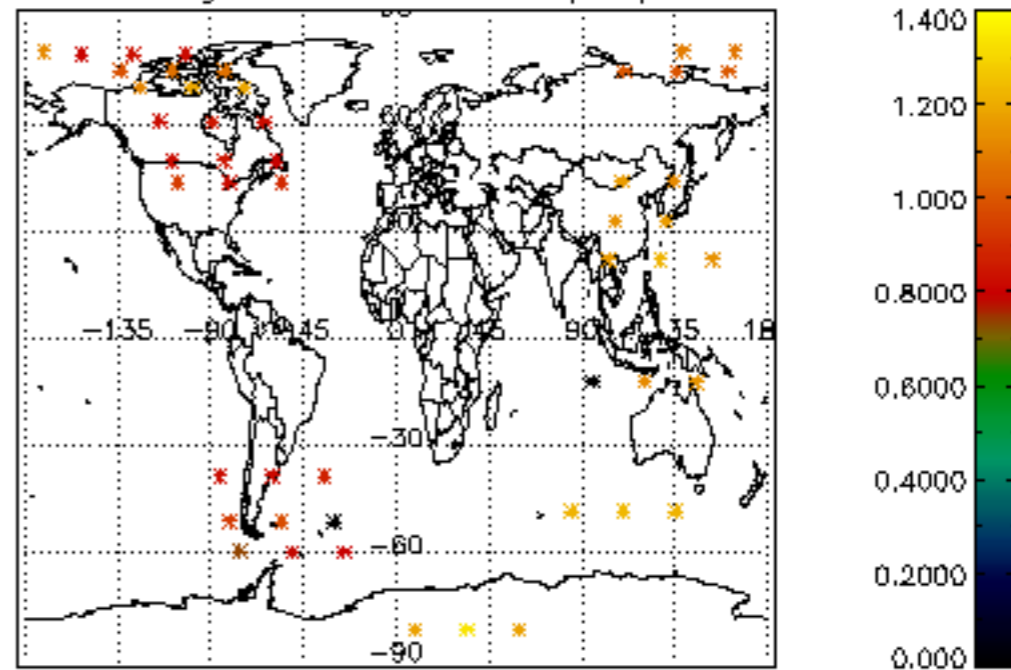




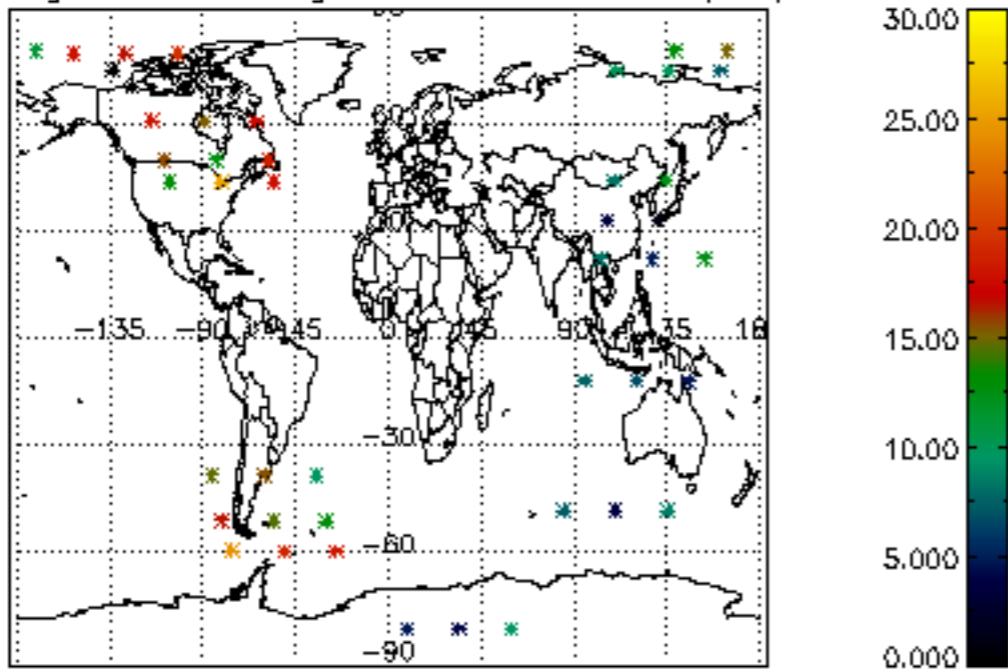
Percentage of cosmic ray hits per profile



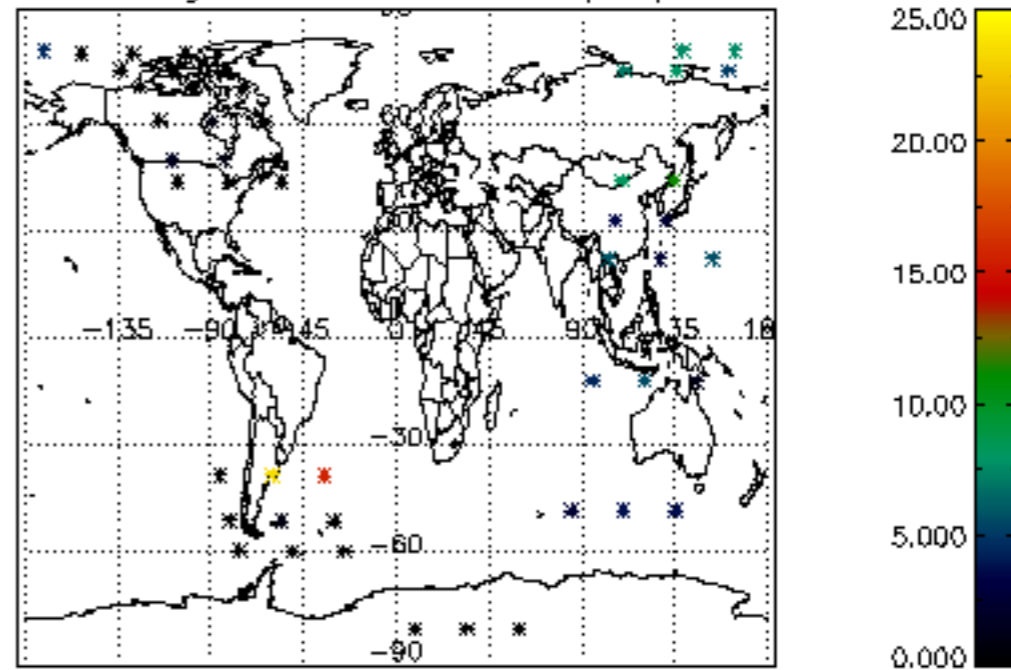
Percentage of datation errors per profile



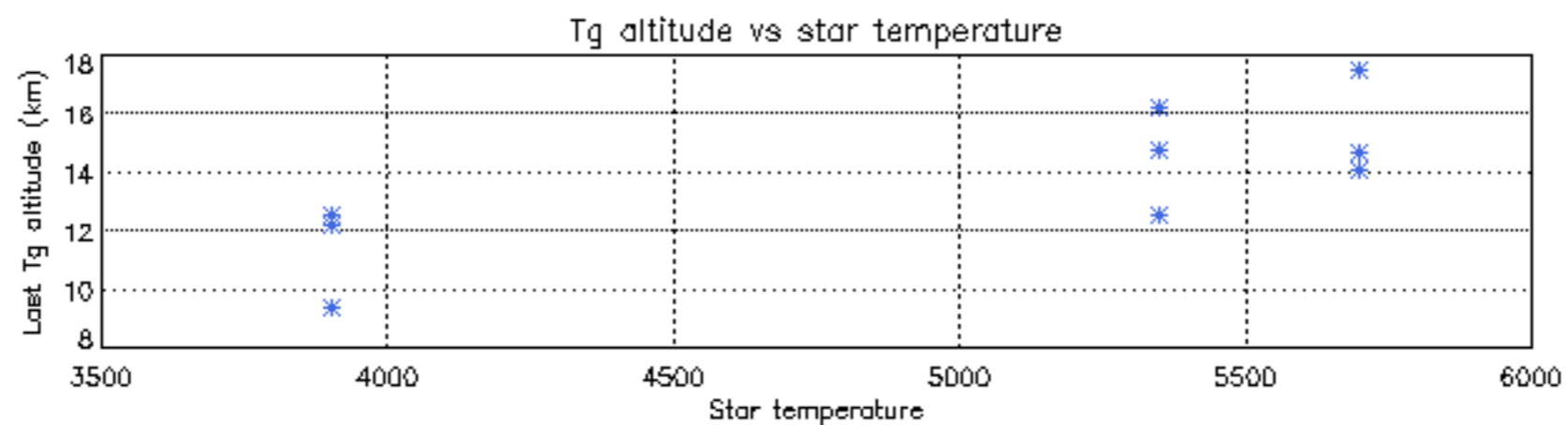
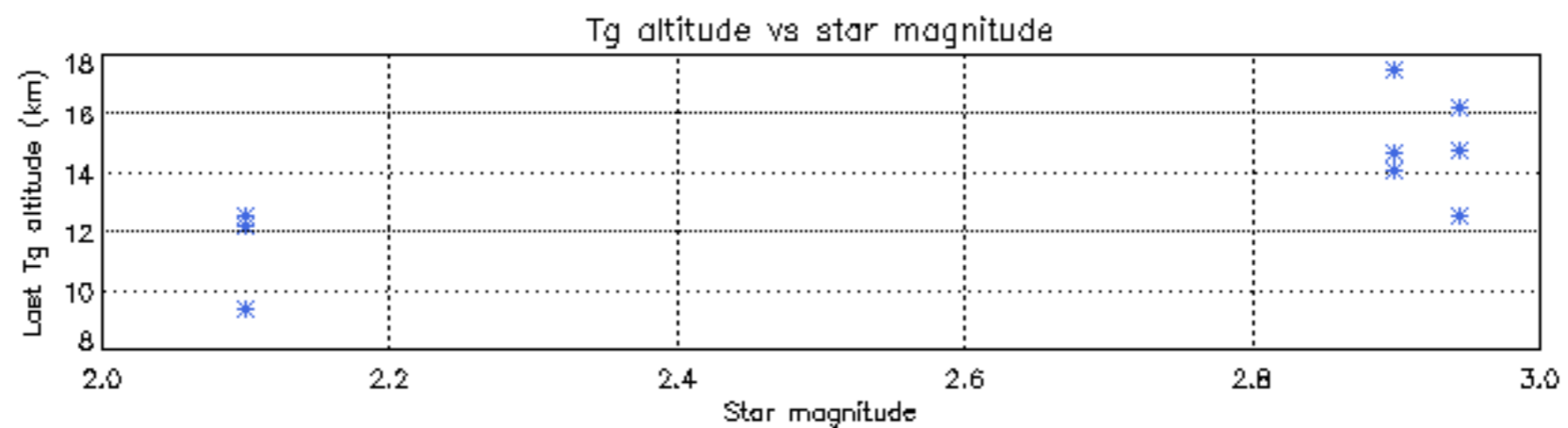
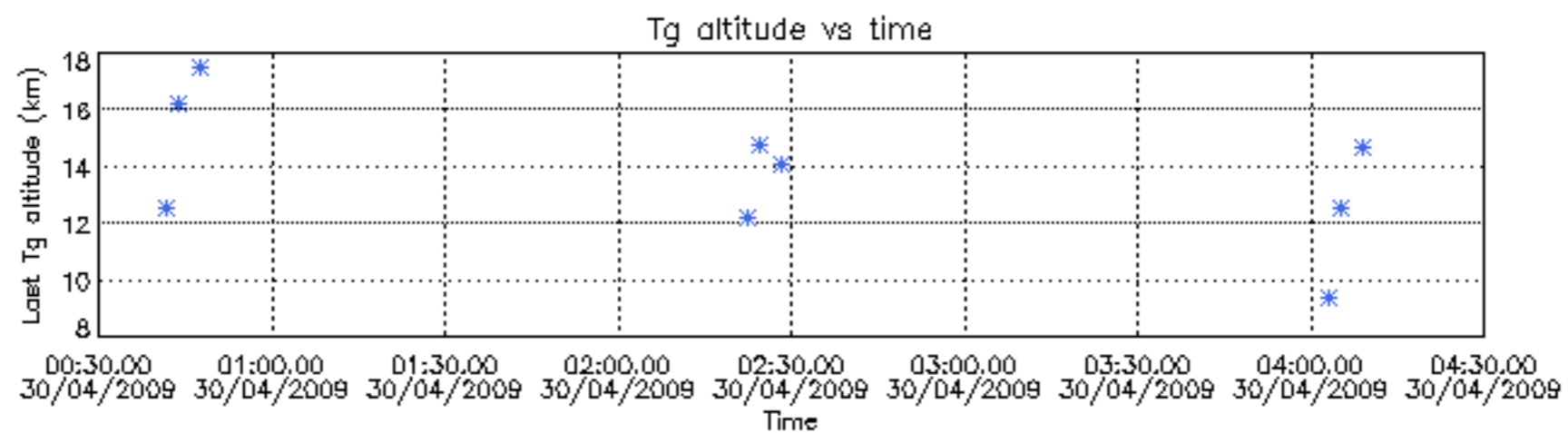
Percentage of star falling outside central band per profile



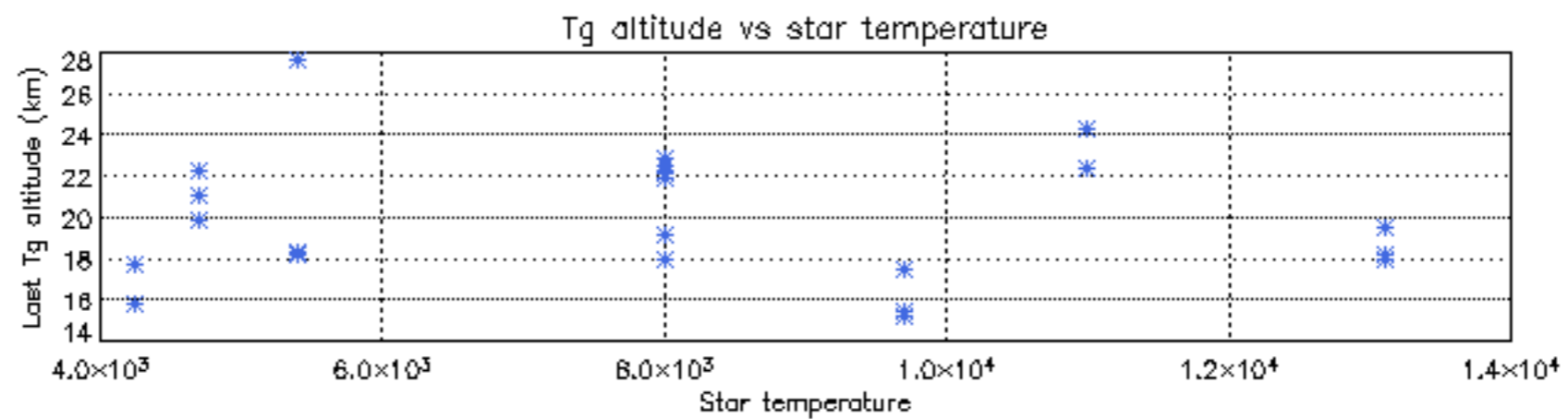
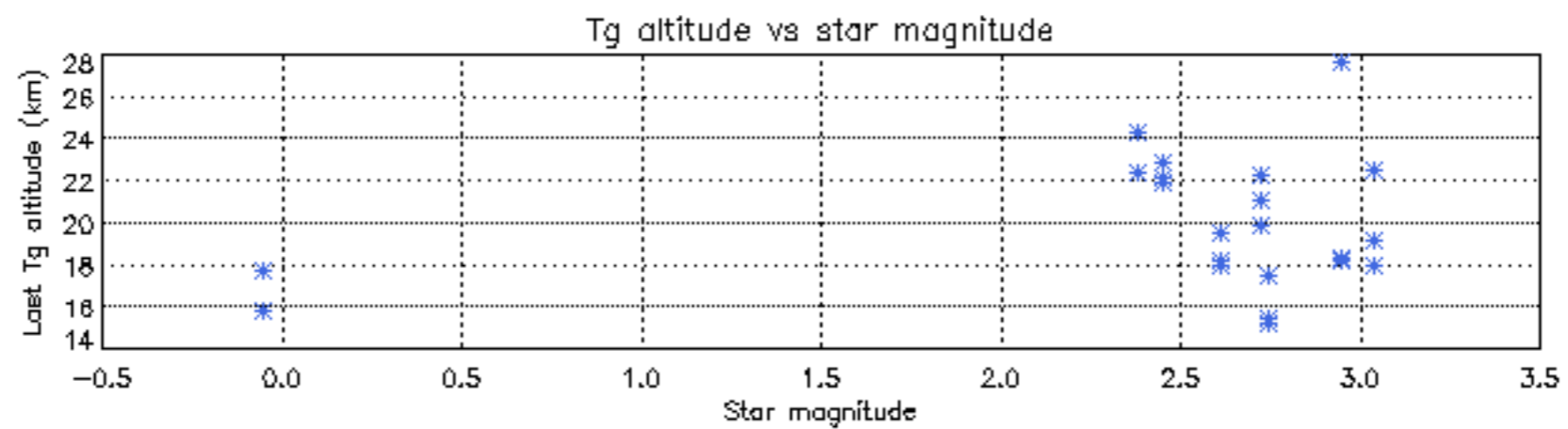
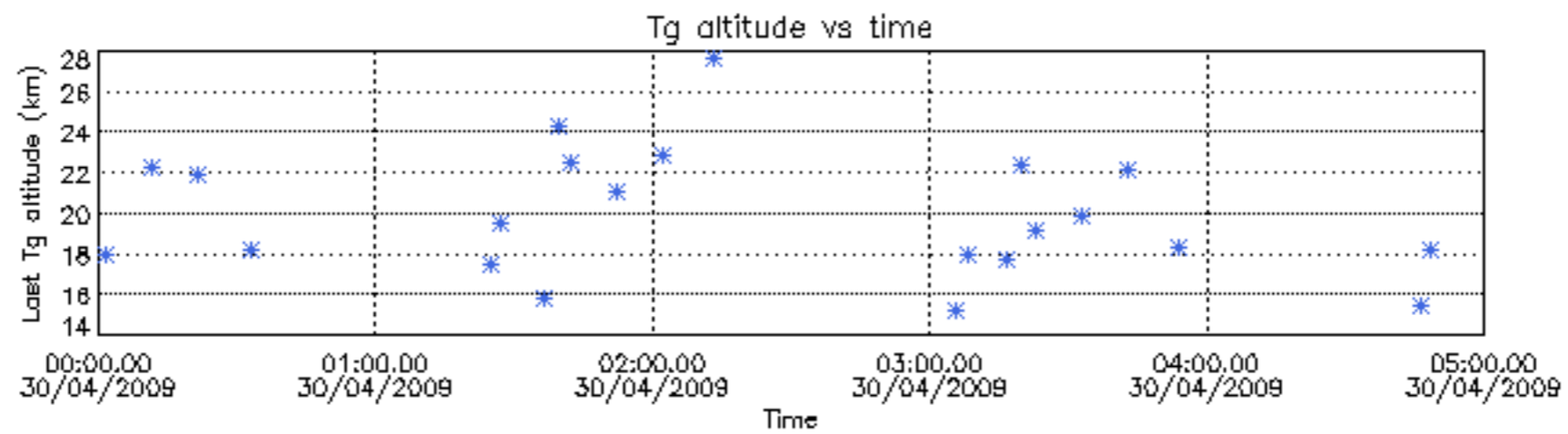
Percentage of saturation errors per profile

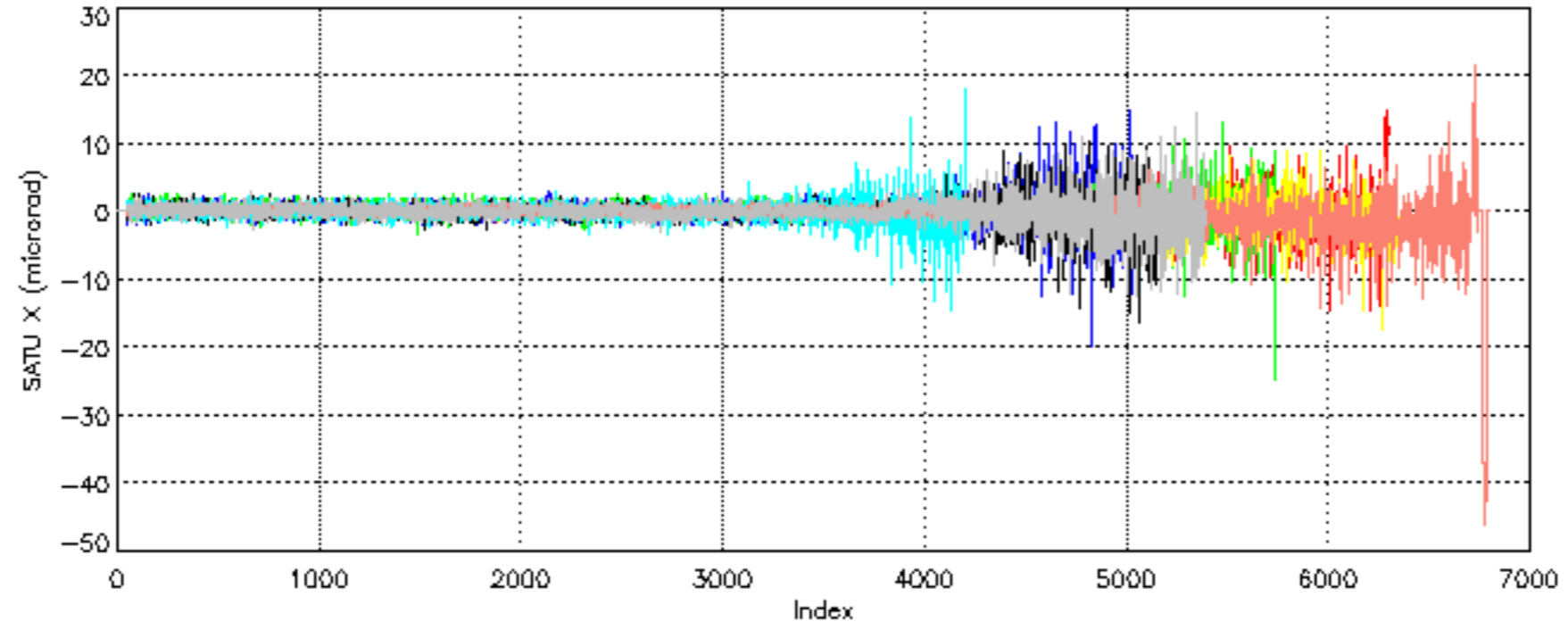


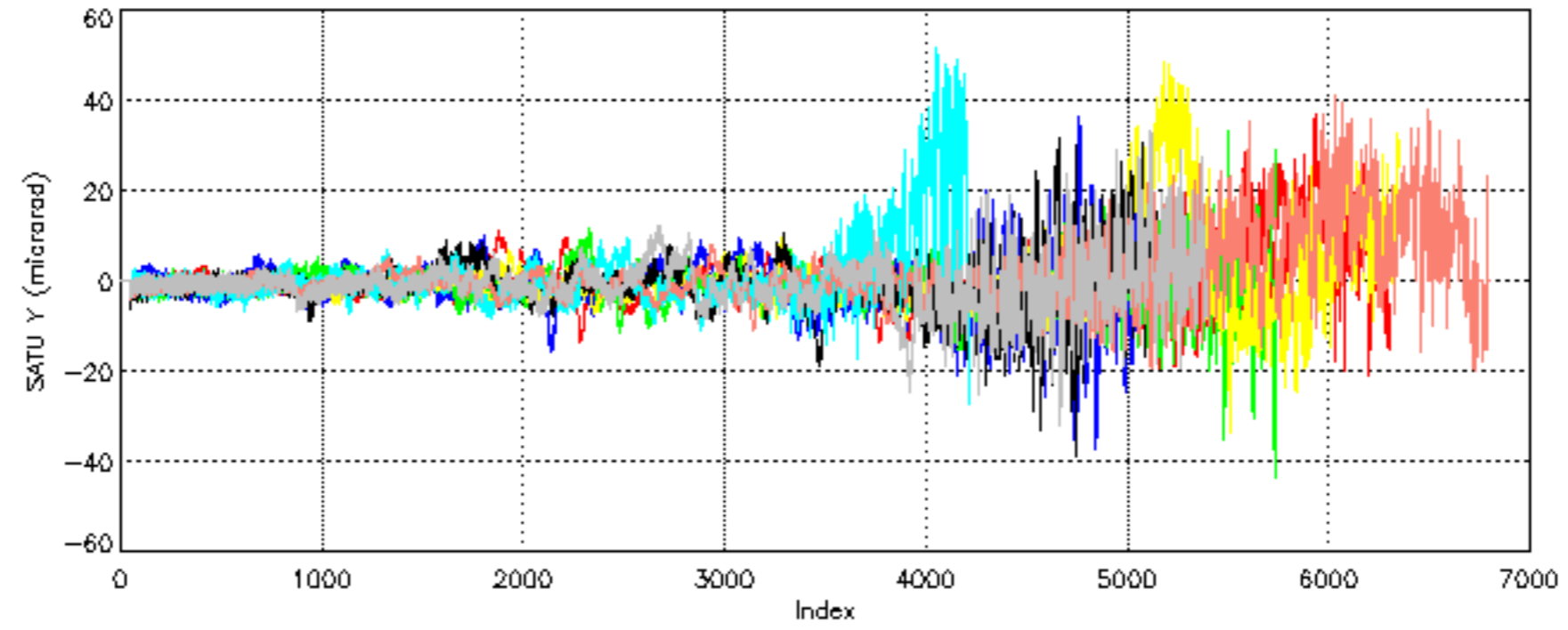
Tangent altitude at which the star is lost

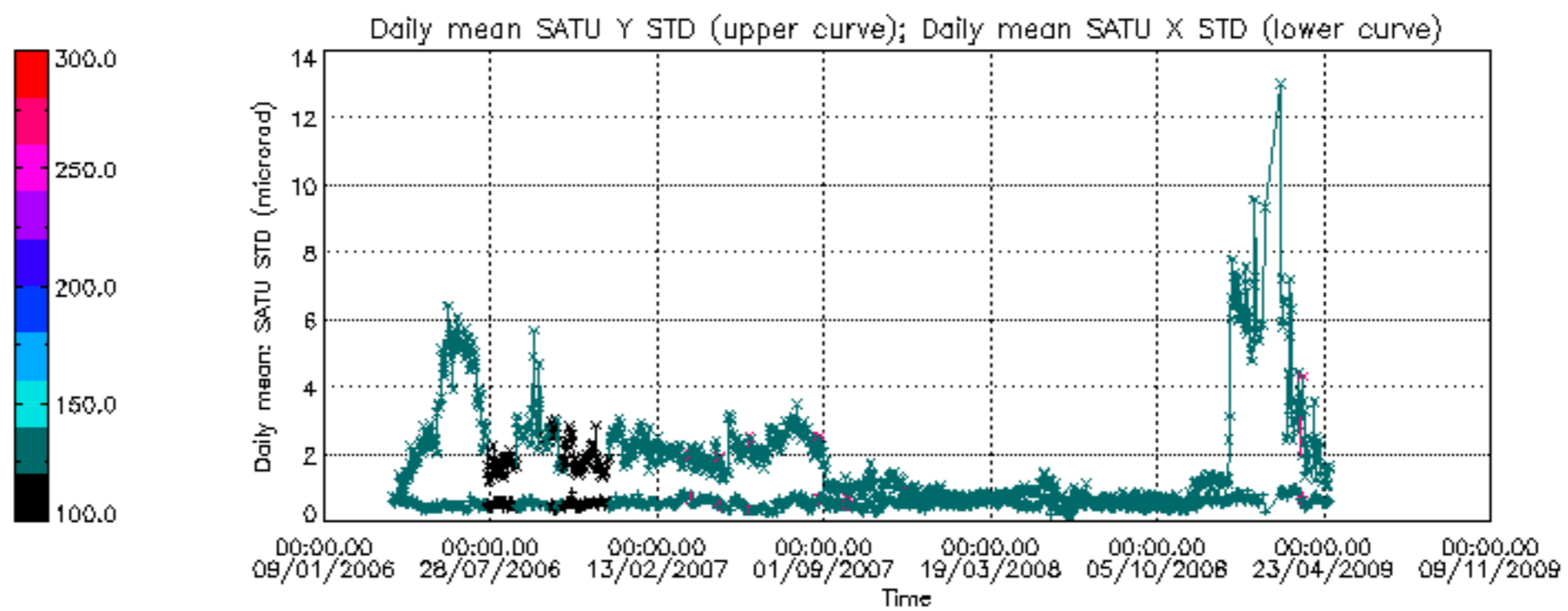


Tangent altitude at which the star is lost









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 14; 2669.4; 02-APR-2009 03:02:36; Bright; 42.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 85; 0;37060
 15; 2952.7; 02-APR-2009 03:07:19; Bright; 40.5; 32; 77Eps UMa ; 1.76; 11000;occ; 81; 0;37060
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