

# GOMOS Daily Report 14-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	16APR2009 05:33:01
Data source version	GOMOS/5.00
Start time of products	14APR2009 00:07:35
Stop time of products	14APR2009 20:23:12
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	1

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

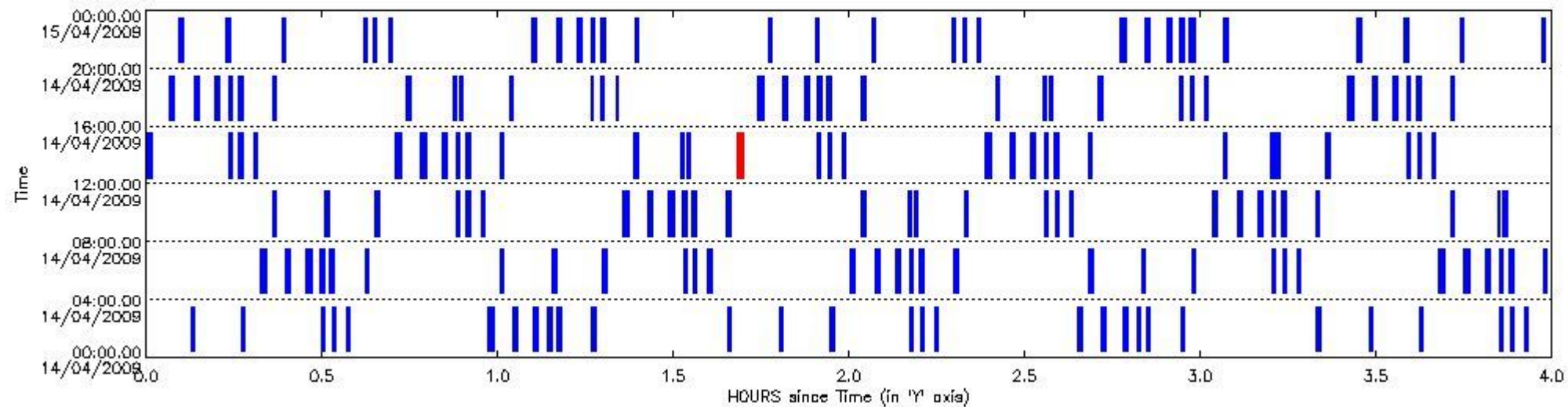
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

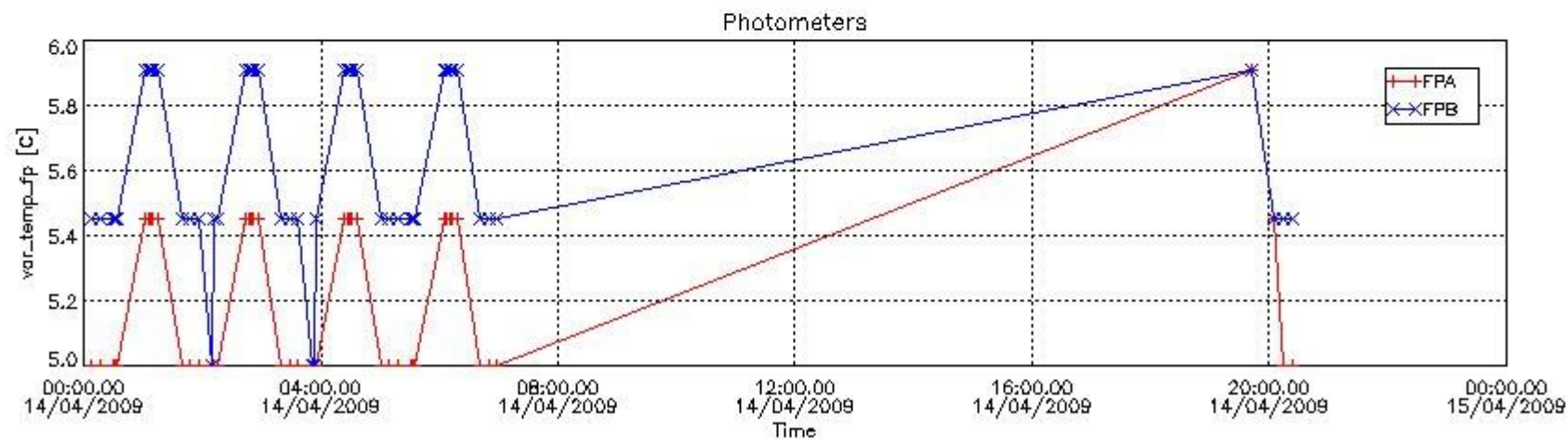
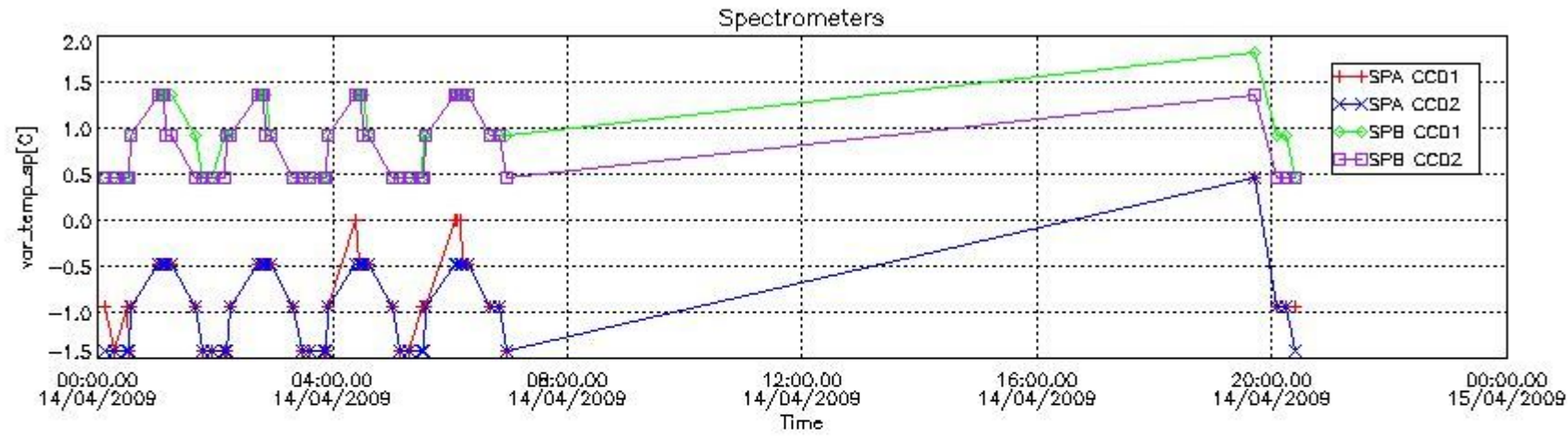
UTC start time	Star name	Star ID	Orbit
14-APR-2009 13:40:54	14EtaDra	119	37238

### 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_1PNPDE20090414_000735_000000372078_00102_37230_3338.N1	14-APR-2009 00:07:35	Bright	37.000	39	85Eta UMa	1.8540	24000.	74	37230	No
2	GOM_TRA_1PNPDE20090414_001609_000000392078_00102_37230_3339.N1	14-APR-2009 00:16:09	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	37230	No
3	GOM_TRA_1PNPDE20090414_002952_000000322078_00102_37230_3340.N1	14-APR-2009 00:29:52	Twilight_stray	32.000	19	50Alp Cyg	1.2460	10500.	64	37230	No
4	GOM_TRA_1PNPDE20090414_003139_000000352078_00102_37230_3341.N1	14-APR-2009 00:31:39	Twilight_stray	35.000	66	37Gam Cyg	2.2080	5900.0	70	37230	No
5	GOM_TRA_1PNPDE20090414_003407_000000332078_00102_37230_3342.N1	14-APR-2009 00:34:07	Twilight_stray	33.000	92	53Eps Cyg	2.5000	4500.0	66	37230	No
6	GOM_TRA_1PNPDE20090414_010228_000000532078_00103_37231_3492.N1	14-APR-2009 01:02:28	Dark	52.500	103	38Zet Sgr	2.6000	9700.0	105	37231	No
7	GOM_TRA_1PNPDE20090414_010604_000000522078_00103_37231_3493.N1	14-APR-2009 01:06:04	Dark	52.000	38	20Eps Sgr	1.8360	11000.	104	37231	No
8	GOM_TRA_1PNPDE20090414_010831_000000392078_00103_37231_3494.N1	14-APR-2009 01:08:31	Dark	39.000	147	Alp Ara	2.8770	26000.	78	37231	No
9	GOM_TRA_1PNPDE20090414_011004_000000512078_00103_37231_3495.N1	14-APR-2009 01:10:04	Dark	50.500	25	35Lam Sco	1.6200	28000.	101	37231	No
10	GOM_TRA_1PNPDE20090414_011603_000000392078_00103_37231_3496.N1	14-APR-2009 01:16:03	Straylight	38.500	131	Gam Lup	2.8000	26000.	77	37231	No

11	GOM_TRA_1PNPDE20090414_013908_000000422078_00103_37231_3497.N1	14-APR-2009 01:39:08	Bright	42.000	111	8Eta Boo	2.6800	6000.0	84	37231	No
12	GOM_TRA_1PNPDE20090414_014810_000000372078_00103_37231_3498.N1	14-APR-2009 01:48:10	Bright	37.000	39	85Eta UMa	1.8540	24000.	74	37231	No
13	GOM_TRA_1PNPDE20090414_015644_000000392078_00103_37231_3499.N1	14-APR-2009 01:56:44	Bright	38.500	119	14Eta Dra	2.7270	4700.0	77	37231	No
14	GOM_TRA_1PNPDE20090414_021028_000000332078_00103_37231_3500.N1	14-APR-2009 02:10:28	Bright	32.500	19	50Alp Cyg	1.2460	10500.	65	37231	No
15	GOM_TRA_1PNPDE20090414_021214_000000362078_00103_37231_3501.N1	14-APR-2009 02:12:14	Twilight	35.500	66	37Gam Cyg	2.2080	5900.0	71	37231	No
16	GOM_TRA_1PNPDE20090414_021443_000000332078_00103_37231_3502.N1	14-APR-2009 02:14:43	Twilight	33.000	92	53Eps Cyg	2.5000	4500.0	66	37231	No
17	GOM_TRA_1PNPDE20090414_024305_000000532078_00104_37232_3634.N1	14-APR-2009 02:43:05	Dark	52.500	103	38Zet Sgr	2.6000	9700.0	105	37232	No
18	GOM_TRA_1PNPDE20090414_024641_000000522078_00104_37232_3635.N1	14-APR-2009 02:46:41	Dark	52.000	38	20Eps Sgr	1.8360	11000.	104	37232	No
19	GOM_TRA_1PNPDE20090414_024907_000000392078_00104_37232_3636.N1	14-APR-2009 02:49:07	Dark	38.500	147	Alp Ara	2.8770	26000.	77	37232	No
20	GOM_TRA_1PNPDE20090414_025042_000000402078_00104_37232_3637.N1	14-APR-2009 02:50:42	Dark	39.500	25	35Lam Sco	1.6200	28000.	79	37232	No
21	GOM_TRA_1PNPDE20090414_025640_000000392078_00104_37232_3638.N1	14-APR-2009 02:56:40	Straylight	39.000	131	Gam Lup	2.8000	26000.	78	37232	No
22	GOM_TRA_1PNPDE20090414_031943_000000422078_00104_37232_3639.N1	14-APR-2009 03:19:43	Bright	41.500	111	8Eta Boo	2.6800	6000.0	83	37232	No
23	GOM_TRA_1PNPDE20090414_032845_000000372078_00104_37232_3640.N1	14-APR-2009 03:28:45	Bright	36.500	39	85Eta UMa	1.8540	24000.	73	37232	No
24	GOM_TRA_1PNPDE20090414_033720_000000382078_00104_37232_3641.N1	14-APR-2009 03:37:20	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	37232	No
25	GOM_TRA_1PNPDE20090414_035104_000000322078_00104_37232_3804.N1	14-APR-2009 03:51:04	Twilight	32.000	19	50Alp Cyg	1.2460	10500.	64	37232	No
26	GOM_TRA_1PNPDE20090414_035250_000000352078_00104_37232_3805.N1	14-APR-2009 03:52:50	Twilight	35.000	66	37Gam Cyg	2.2080	5900.0	70	37232	No
27	GOM_TRA_1PNPDE20090414_035519_000000342078_00104_37232_3806.N1	14-APR-2009 03:55:19	Twilight	33.500	92	53Eps Cyg	2.5000	4500.0	67	37232	No
28	GOM_TRA_1PNPDE20090414_042342_000000532078_00105_37233_3807.N1	14-APR-2009 04:23:42	Dark	53.000	103	38Zet Sgr	2.6000	9700.0	106	37233	No
29	GOM_TRA_1PNPDE20090414_042719_000000522078_00105_37233_3808.N1	14-APR-2009 04:27:19	Dark	52.000	38	20Eps Sgr	1.8360	11000.	104	37233	No
30	GOM_TRA_1PNPDE20090414_042944_000000392078_00105_37233_3809.N1	14-APR-2009 04:29:44	Dark	38.500	147	Alp Ara	2.8770	26000.	77	37233	No
31	GOM_TRA_1PNPDE20090414_043119_000000502078_00105_37233_3810.N1	14-APR-2009 04:31:19	Dark	50.000	25	35Lam Sco	1.6200	28000.	100	37233	No
32	GOM_TRA_1PNPDE20090414_043716_000000392078_00105_37233_3811.N1	14-APR-2009 04:37:16	Straylight	38.500	131	Gam Lup	2.8000	26000.	77	37233	No
33	GOM_TRA_1PNPDE20090414_050019_000000422078_00105_37233_3812.N1	14-APR-2009 05:00:19	Bright	41.500	111	8Eta Boo	2.6800	6000.0	83	37233	No
34	GOM_TRA_1PNPDE20090414_050921_000000372078_00105_37233_3813.N1	14-APR-2009 05:09:21	Bright	36.500	39	85Eta UMa	1.8540	24000.	73	37233	No
35	GOM_TRA_1PNPDE20090414_051755_000000382078_00105_37233_3814.N1	14-APR-2009 05:17:55	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	37233	No
36	GOM_TRA_1PNPDE20090414_053140_000000322078_00105_37233_3987.N1	14-APR-2009 05:31:40	Twilight	32.000	19	50Alp Cyg	1.2460	10500.	64	37233	No
37	GOM_TRA_1PNPDE20090414_053326_000000352078_00105_37233_3988.N1	14-APR-2009 05:33:26	Twilight	35.000	66	37Gam Cyg	2.2080	5900.0	70	37233	No
38	GOM_TRA_1PNPDE20090414_053555_000000342078_00105_37233_3989.N1	14-APR-2009 05:35:55	Twilight	33.500	92	53Eps Cyg	2.5000	4500.0	67	37233	No
39	GOM_TRA_1PNPDE20090414_060420_000000532078_00106_37234_3990.N1	14-APR-2009 06:04:20	Dark	52.500	103	38Zet Sgr	2.6000	9700.0	105	37234	No
40	GOM_TRA_1PNPDE20090414_060756_000000522078_00106_37234_3991.N1	14-APR-2009 06:07:56	Dark	52.000	38	20Eps Sgr	1.8360	11000.	104	37234	No
41	GOM_TRA_1PNPDE20090414_061021_000000392078_00106_37234_3992.N1	14-APR-2009 06:10:21	Dark	38.500	147	Alp Ara	2.8770	26000.	77	37234	No
42	GOM_TRA_1PNPDE20090414_061156_000000502078_00106_37234_3993.N1	14-APR-2009 06:11:56	Dark	50.000	25	35Lam Sco	1.6200	28000.	100	37234	No
43	GOM_TRA_1PNPDE20090414_061753_000000392078_00106_37234_3994.N1	14-APR-2009 06:17:53	Straylight	38.500	131	Gam Lup	2.8000	26000.	77	37234	No
44	GOM_TRA_1PNPDE20090414_064054_000000422078_00106_37234_3995.N1	14-APR-2009 06:40:54	Bright	42.000	111	8Eta Boo	2.6800	6000.0	84	37234	No
45	GOM_TRA_1PNPDE20090414_064956_000000372078_00106_37234_3996.N1	14-APR-2009 06:49:56	Bright	37.000	39	85Eta UMa	1.8540	24000.	74	37234	No
46	GOM_TRA_1PNPDE20090414_065830_000000382078_00106_37234_3997.N1	14-APR-2009 06:58:30	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	37234	No
47	GOM_TRA_1PNPDE20090414_194246_000000372078_00114_37242_4431.N1	14-APR-2009 19:42:46	Straylight	37.000	131	Gam Lup	2.8000	26000.	74	37242	Yes
48	GOM_TRA_1PNPDE20090414_200537_000000402078_00114_37242_4432.N1	14-APR-2009 20:05:37	Bright	39.500	111	8Eta Boo	2.6800	6000.0	79	37242	No
49	GOM_TRA_1PNPDE20090414_201337_000000422078_00114_37242_4433.N1	14-APR-2009 20:13:37	Bright	42.000	180	27Gam Boo	3.0400	8000.0	84	37242	No
50	GOM_TRA_1PNPDE20090414_202312_000000372078_00114_37242_4434.N1	14-APR-2009 20:23:12	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	37242	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).

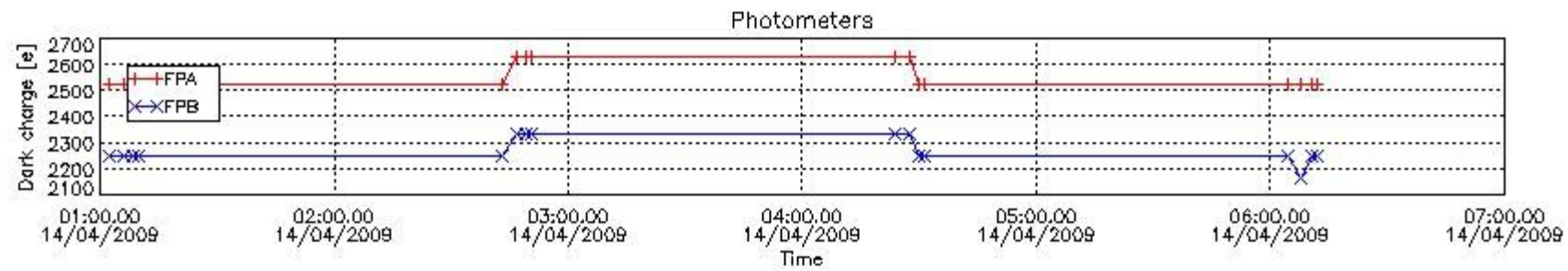
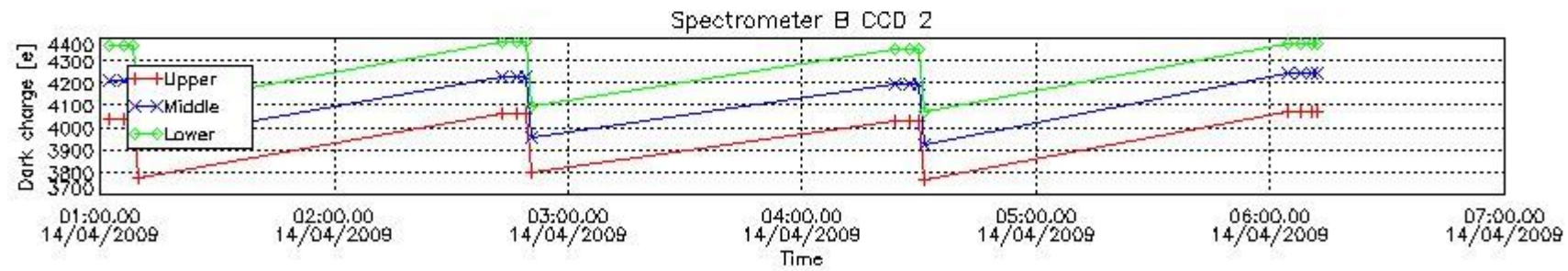
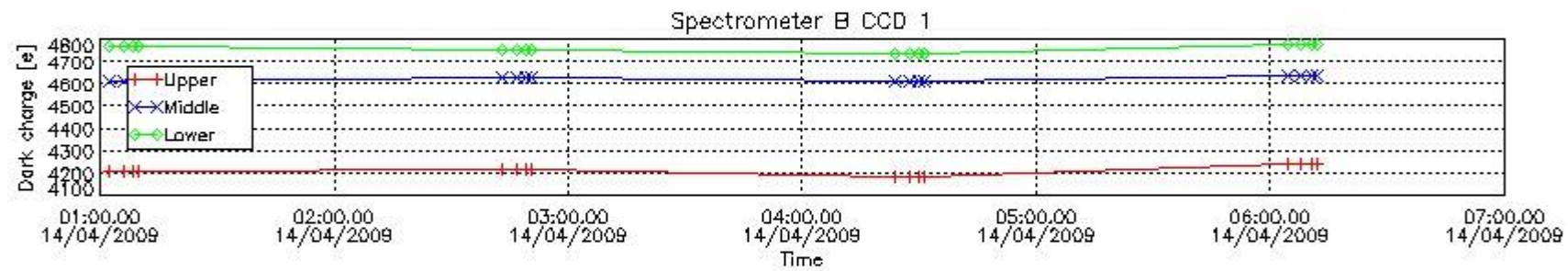
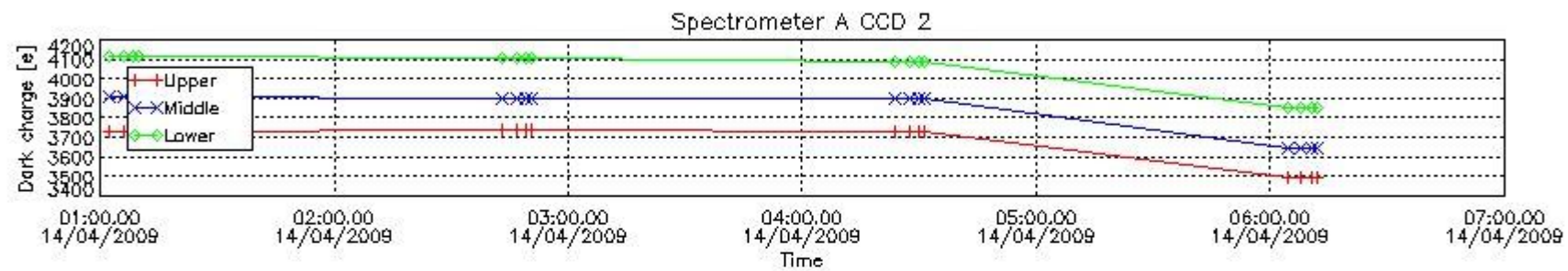
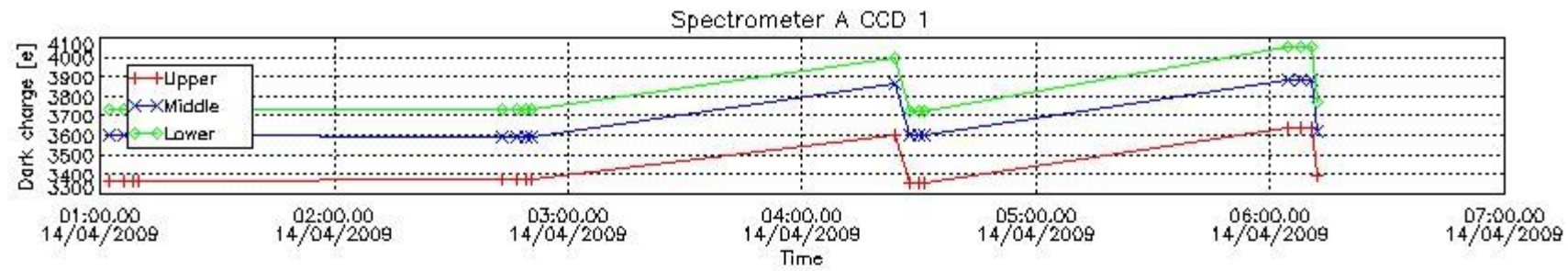
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

##### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20090414_194246_000000372078_00114_37242_4431.N1	DC map with no T dep.
GOM_TRA_1PNPDE20090414_200537_000000402078_00114_37242_4432.N1	DC map used
GOM_TRA_1PNPDE20090414_201337_000000422078_00114_37242_4433.N1	DC map used
GOM_TRA_1PNPDE20090414_202312_000000372078_00114_37242_4434.N1	DC map used

##### 4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used





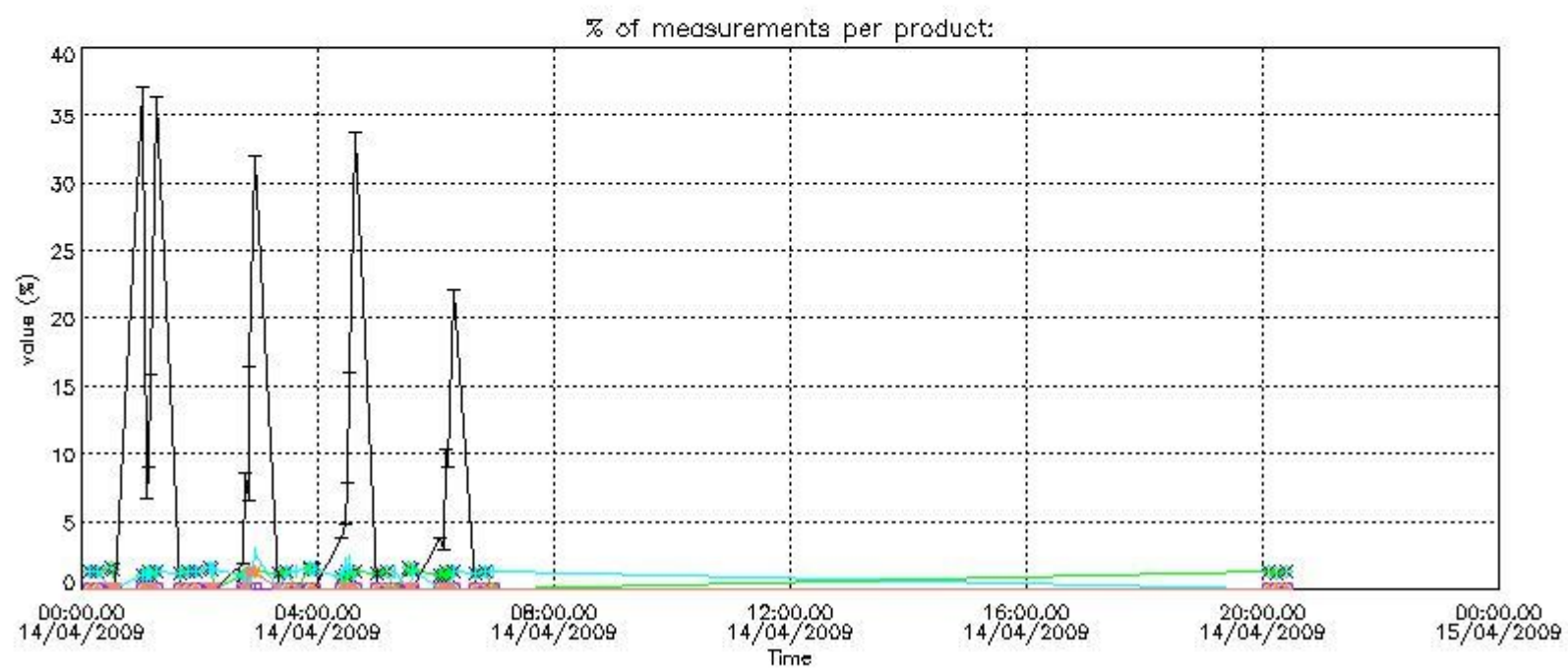
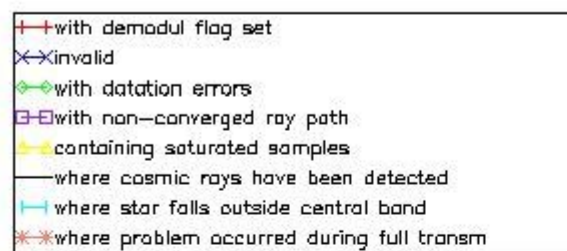
## 5. Demodulation flag and quality information monitoring

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:

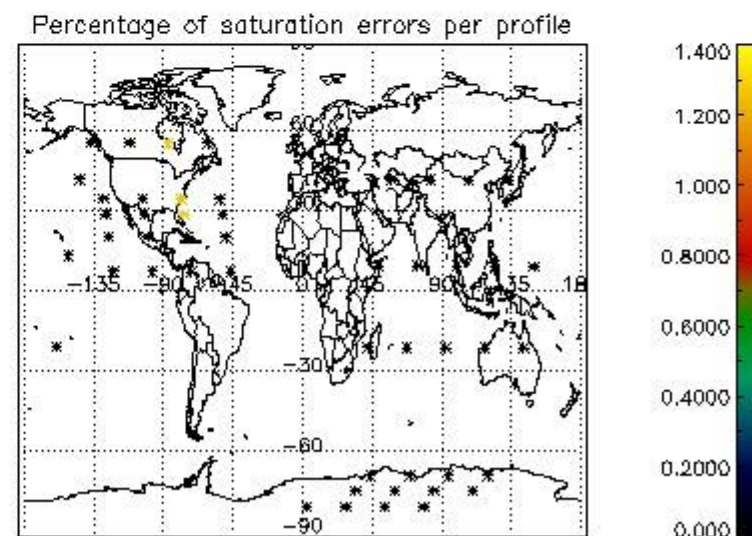
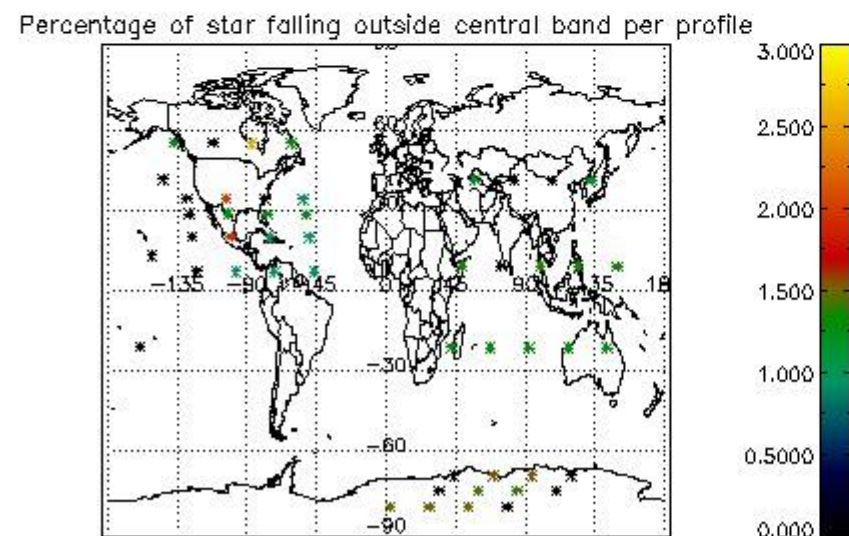
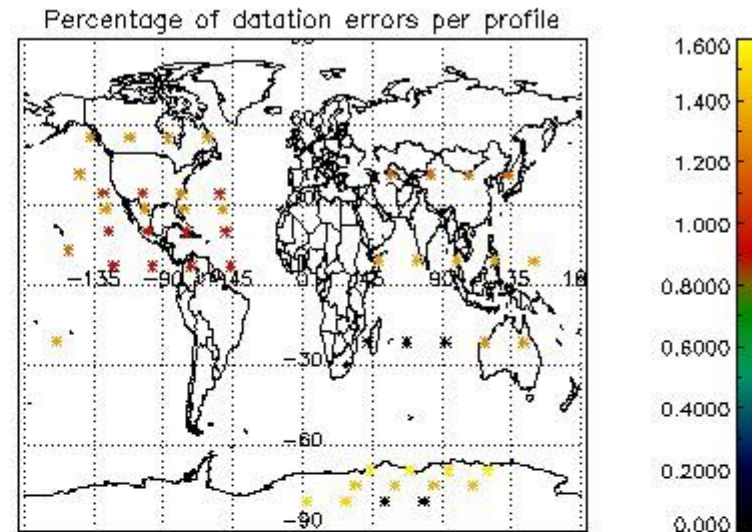
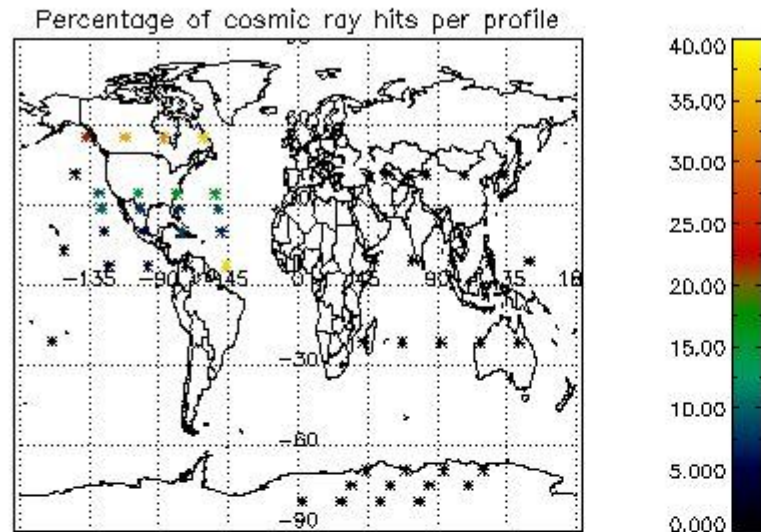
At least one measurement with demodulation flag set:	18.3673 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)





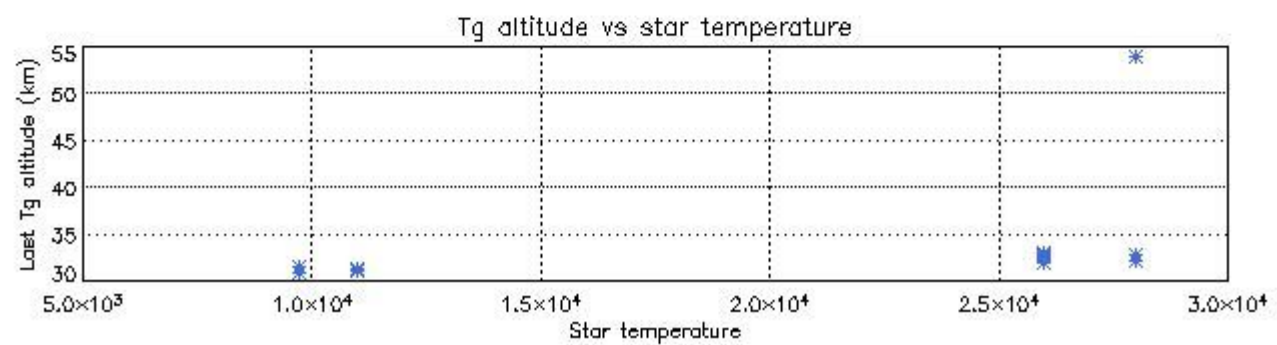
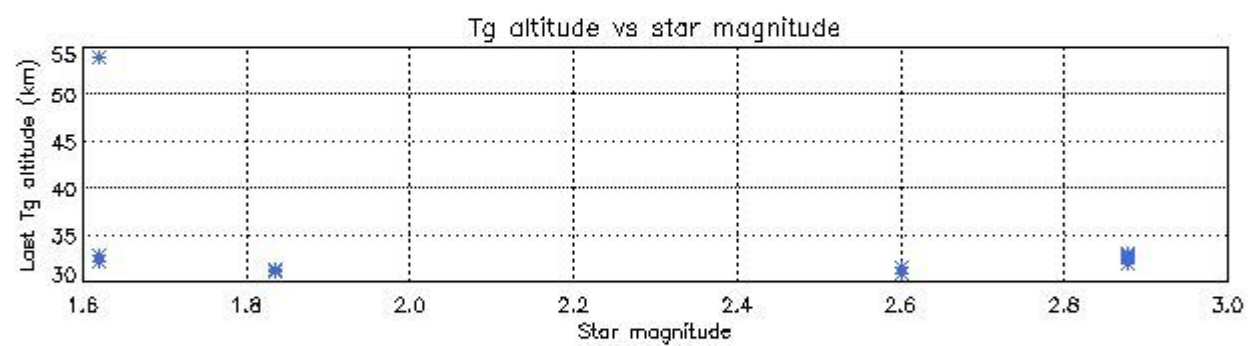
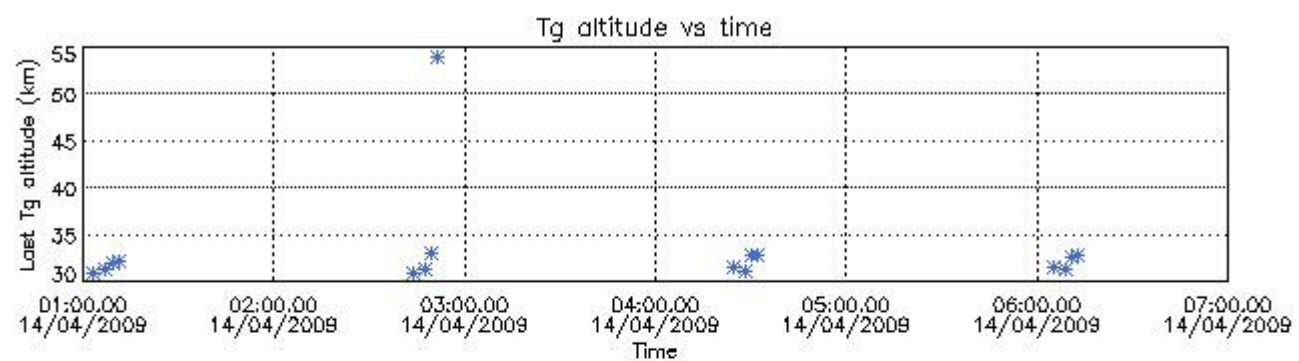
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	33.211	36.510	NaN
St. deviation:	5.5723	5.0150	NaN
Maximum:	53.927	50.181	NaN
Minimum:	30.759	31.552	NaN
Number of data:	16.000	18.000	NaN

### 6.2 Plot for DARK limb products

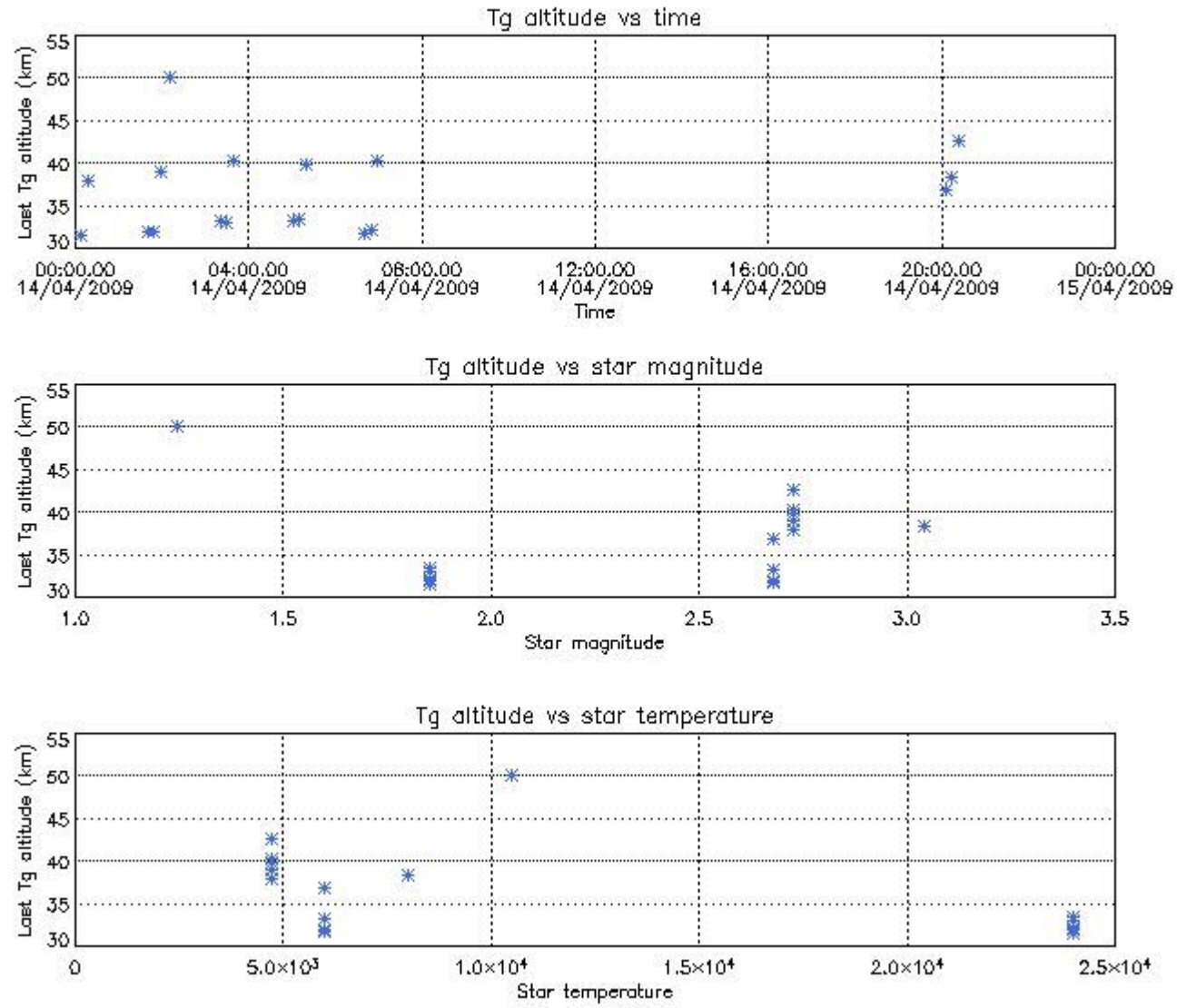
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

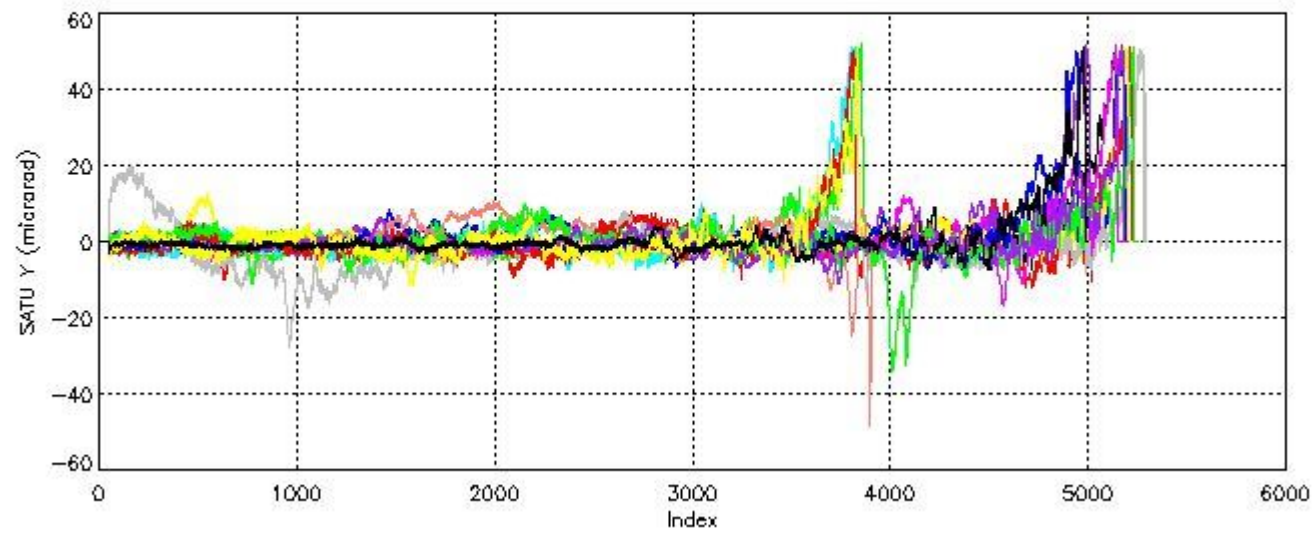
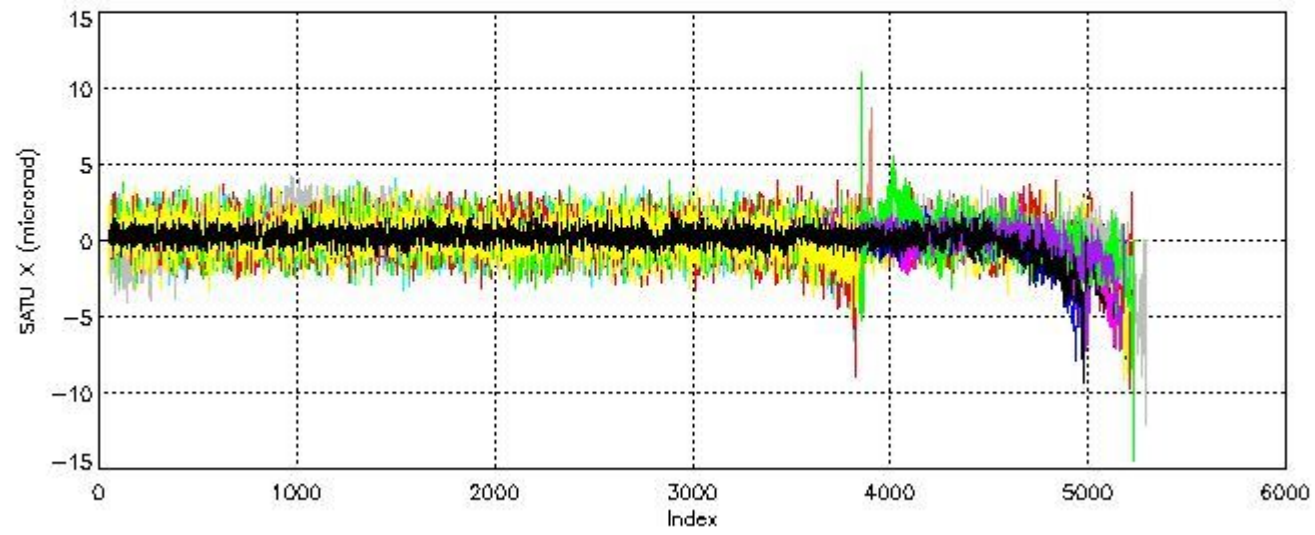


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.37534	-0.73371	0.37303	-1.1639
St. deviation:	0.76580	2.0429	0.77745	1.2282
Maximum:	4.2000	20.000	4.8000	5.3000
Minimum:	-4.1000	-28.100	-4.2000	-8.4000

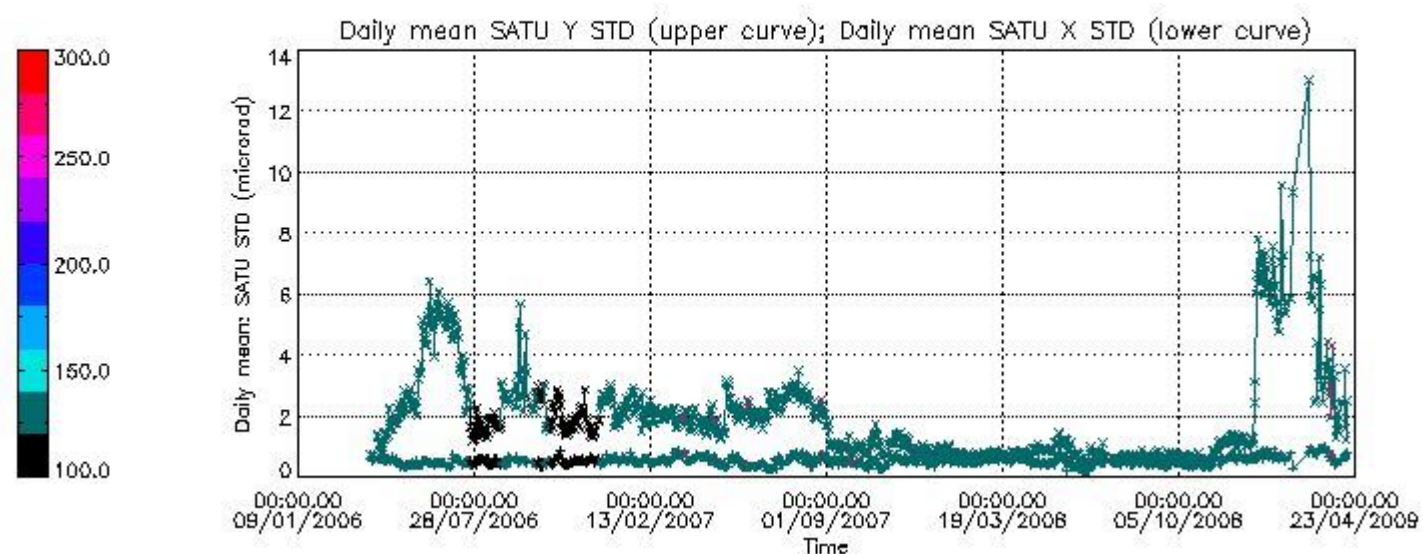
Number of data:	21750.	21750.	19950.	19950.
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### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

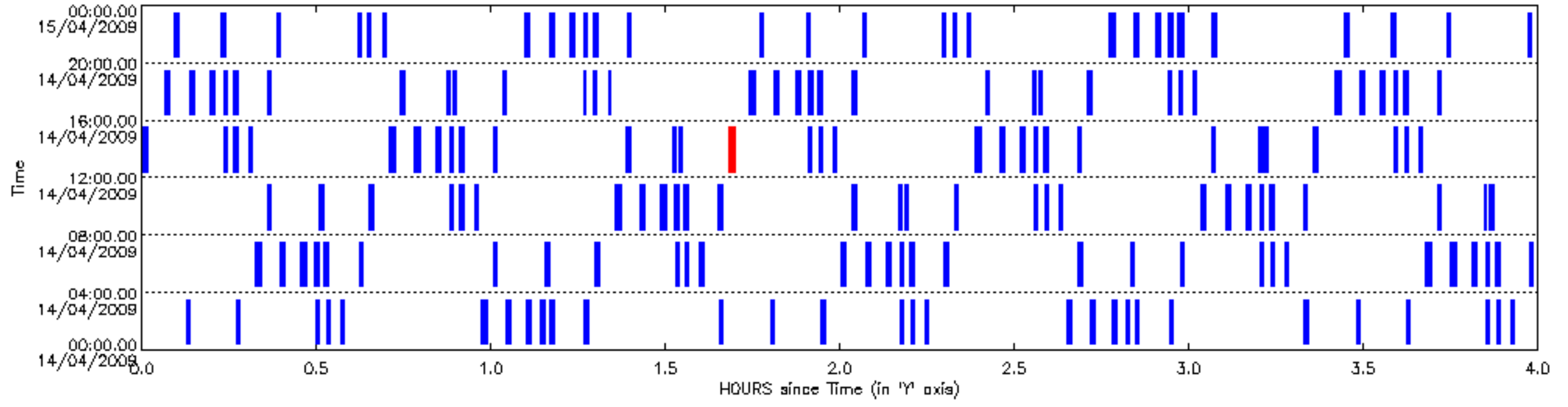


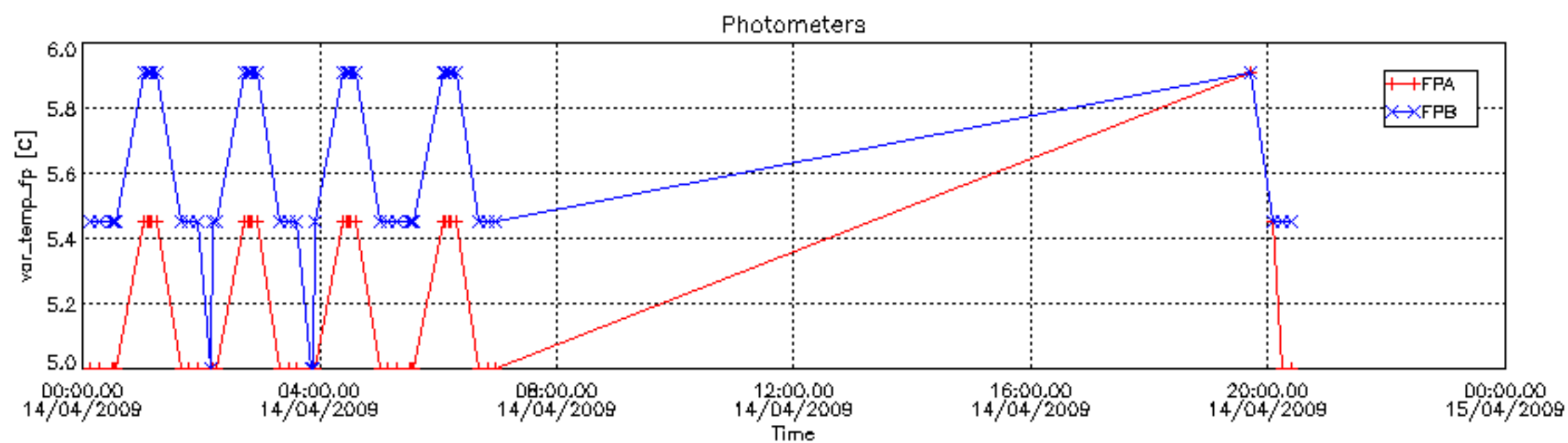
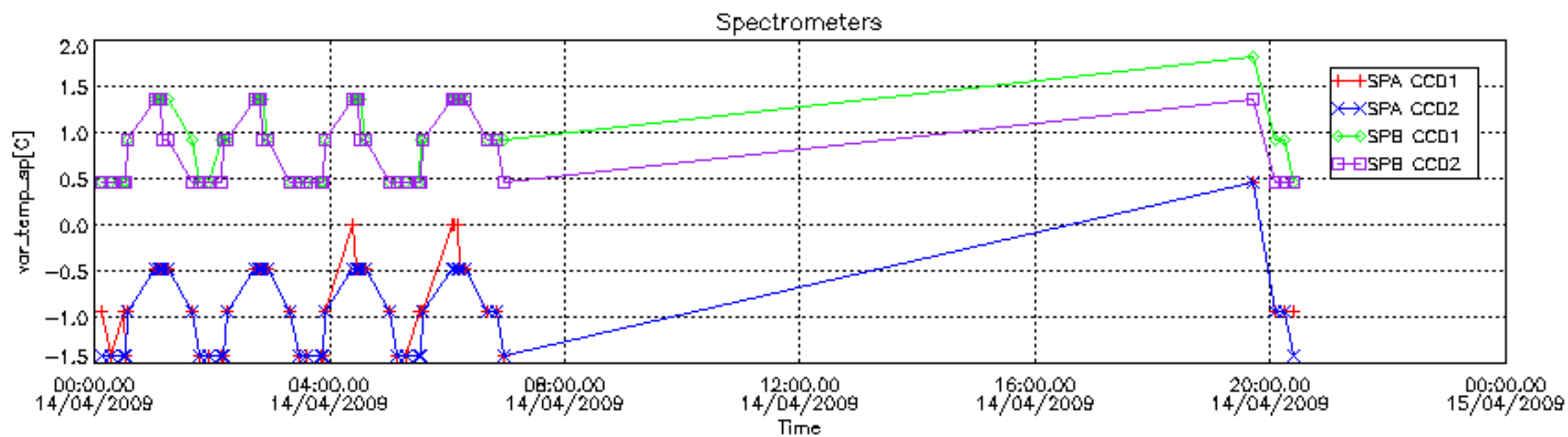
### 8. Auxiliary Data Files used for the production reported in section 2.4

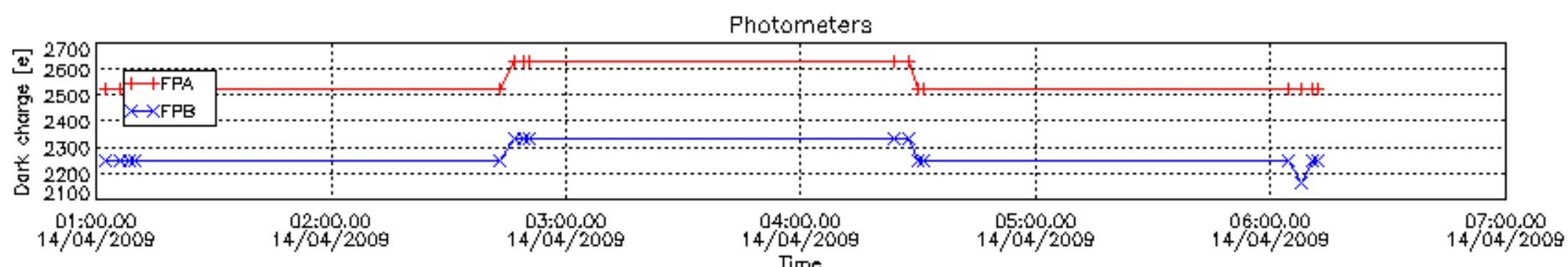
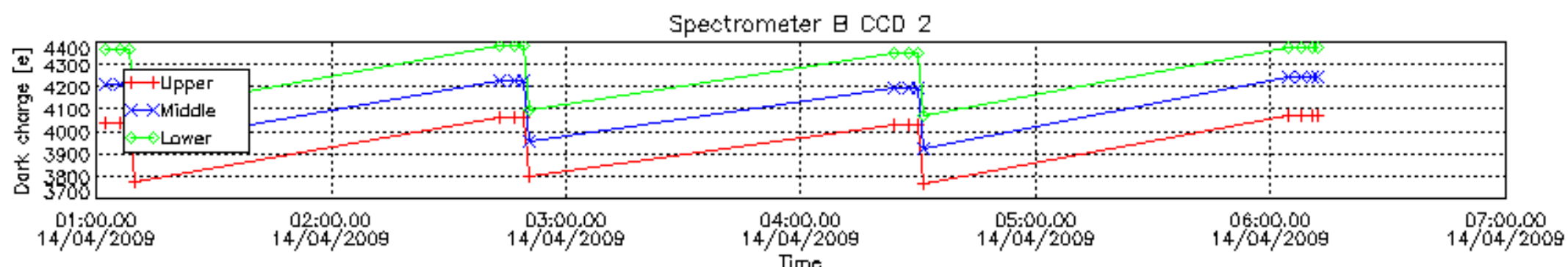
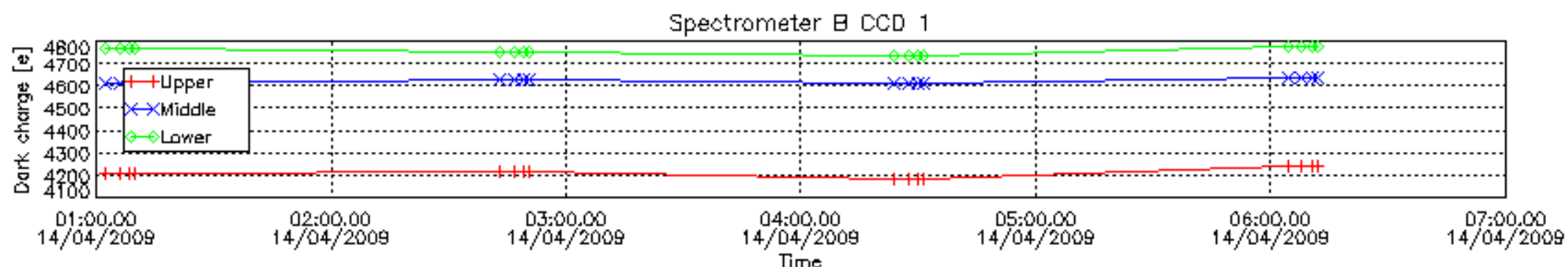
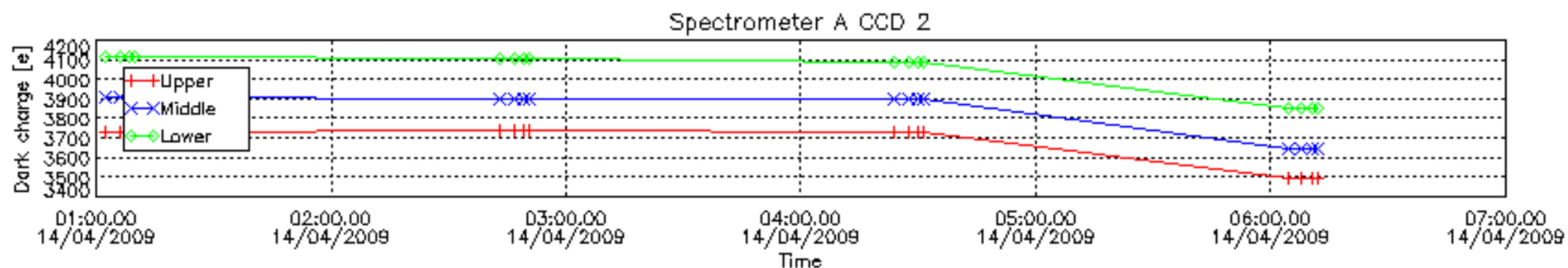
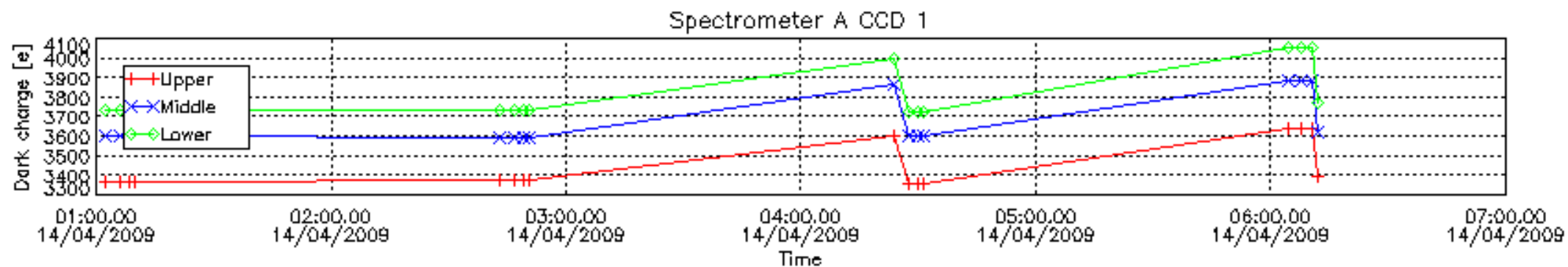
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	14-APR-2009 00:07:35
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090323_082818_20090321_000000_20100101_000000	1	14-APR-2009 00:07:35
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090414_083029_20090412_000000_20100101_000000	47	14-APR-2009 19:42:46
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	14-APR-2009 00:07:35
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	14-APR-2009 00:07:35
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	14-APR-2009 00:07:35
ECMWF_FILE	AUX_ECF_AXNECM20090413_064112_20090413_210000_20090414_090000	1	14-APR-2009 00:07:35
ECMWF_FILE	AUX_ECF_AXNECM20090413_182112_20090414_030000_20090414_150000	25	14-APR-2009 03:51:04
ECMWF_FILE	AUX_ECF_AXNECM20090414_064111_20090414_150000_20090415_030000	47	14-APR-2009 19:42:46
OPTIONAL_ECMWF_FILE	MISSING	1	14-APR-2009 00:07:35
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090413_212319_000057382078_00100_37228_7744.N1	1	14-APR-2009 00:07:35
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090413_230416_000057382078_00101_37229_7745.N1	6	14-APR-2009 01:02:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090414_004513_000054192078_00102_37230_7746.N1	17	14-APR-2009 02:43:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090414_022052_000044632078_00103_37231_7747.N1	25	14-APR-2009 03:51:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090414_034033_000057382078_00104_37232_7748.N1	36	14-APR-2009 05:31:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090414_194215_000035072078_00114_37242_7750.N1	47	14-APR-2009 19:42:46

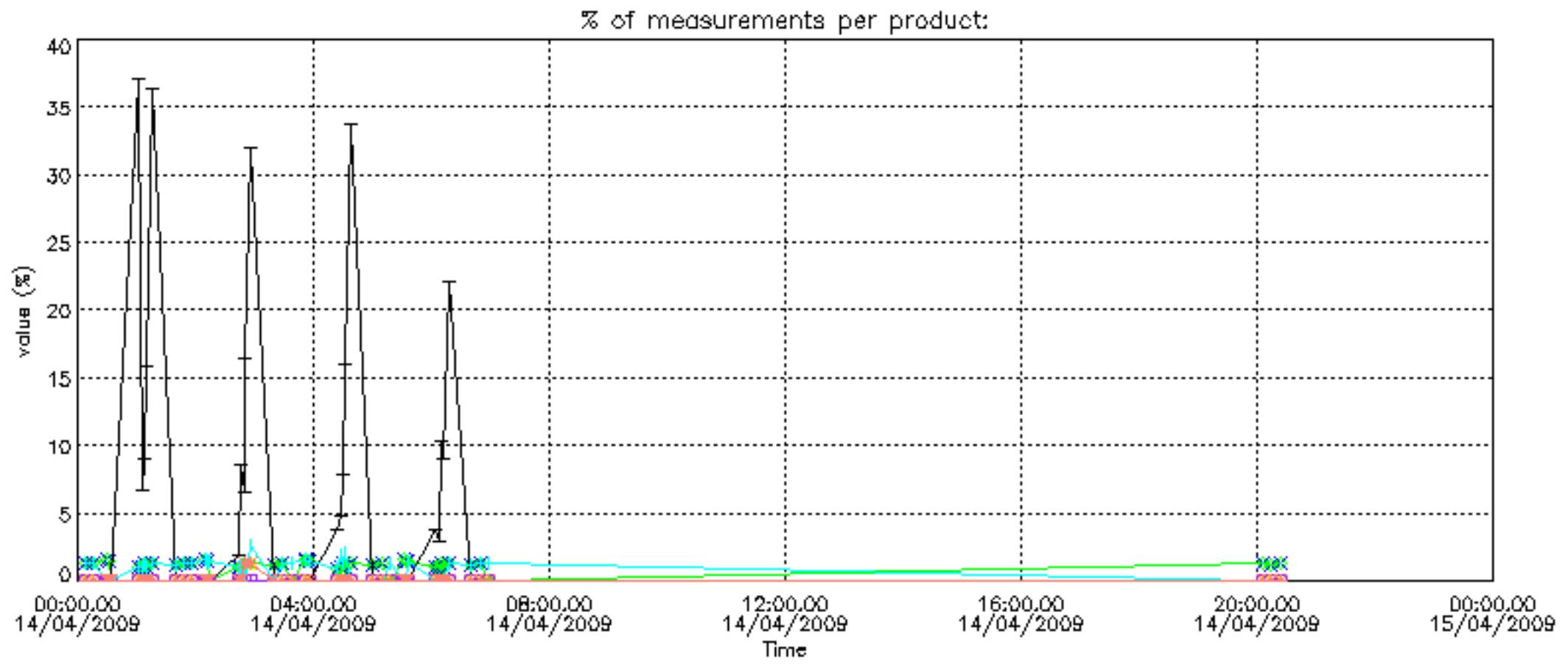




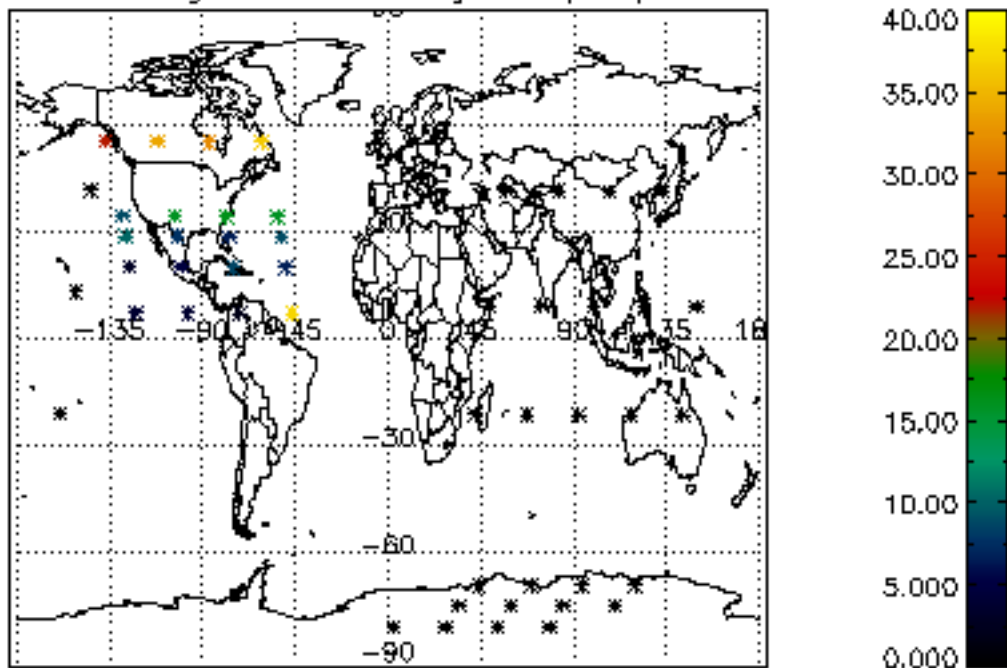




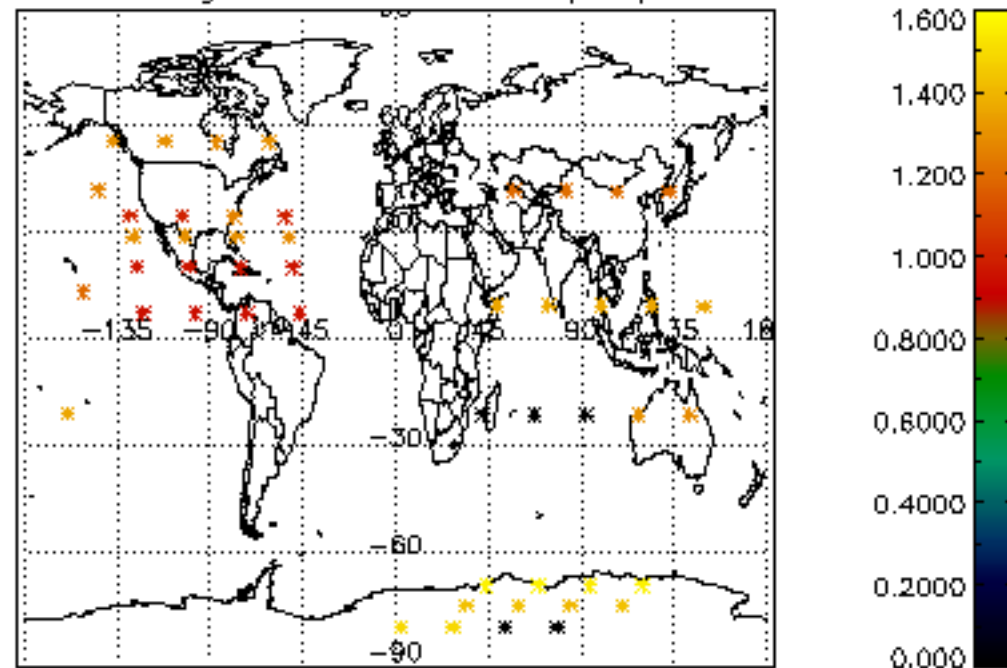




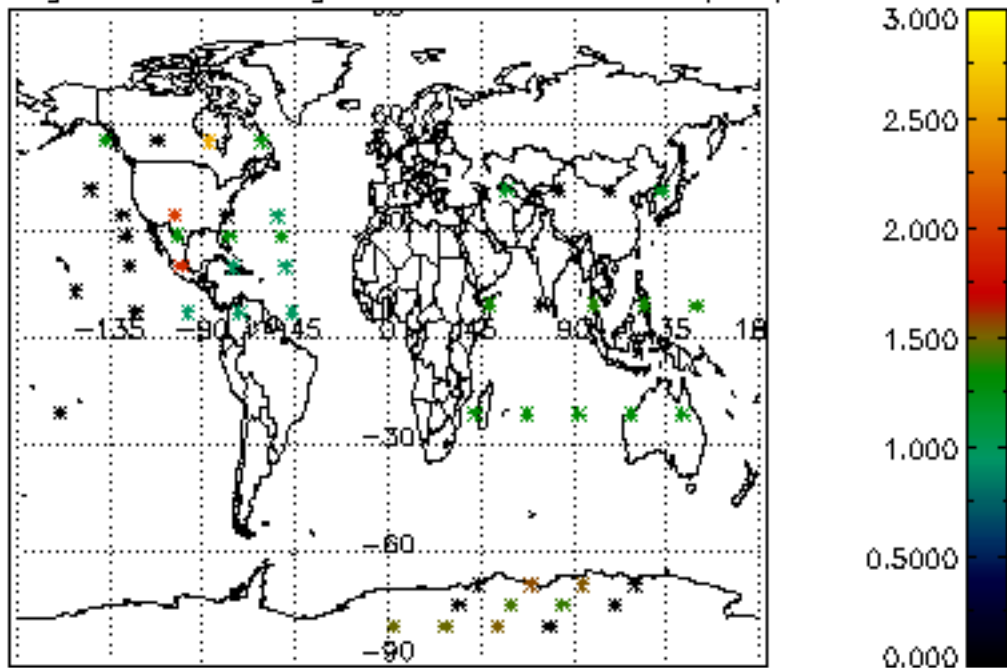
Percentage of cosmic ray hits per profile



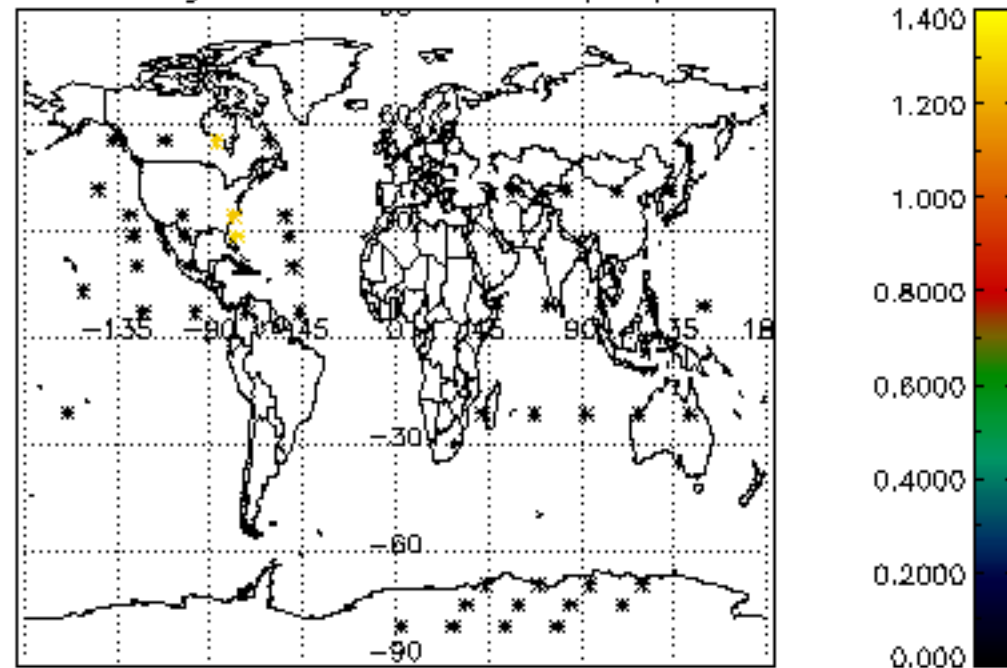
Percentage of datation errors per profile



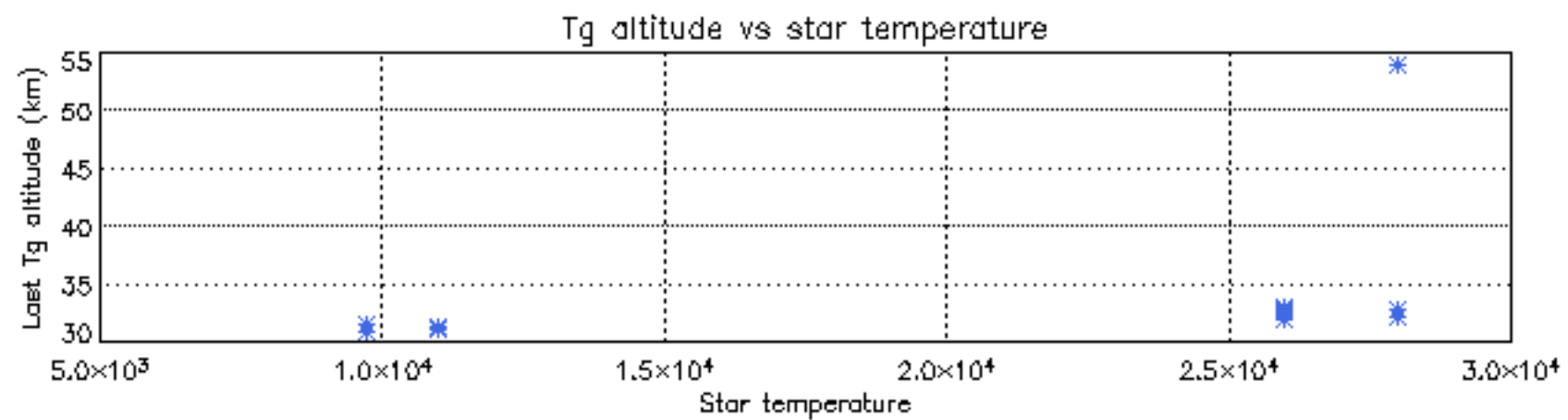
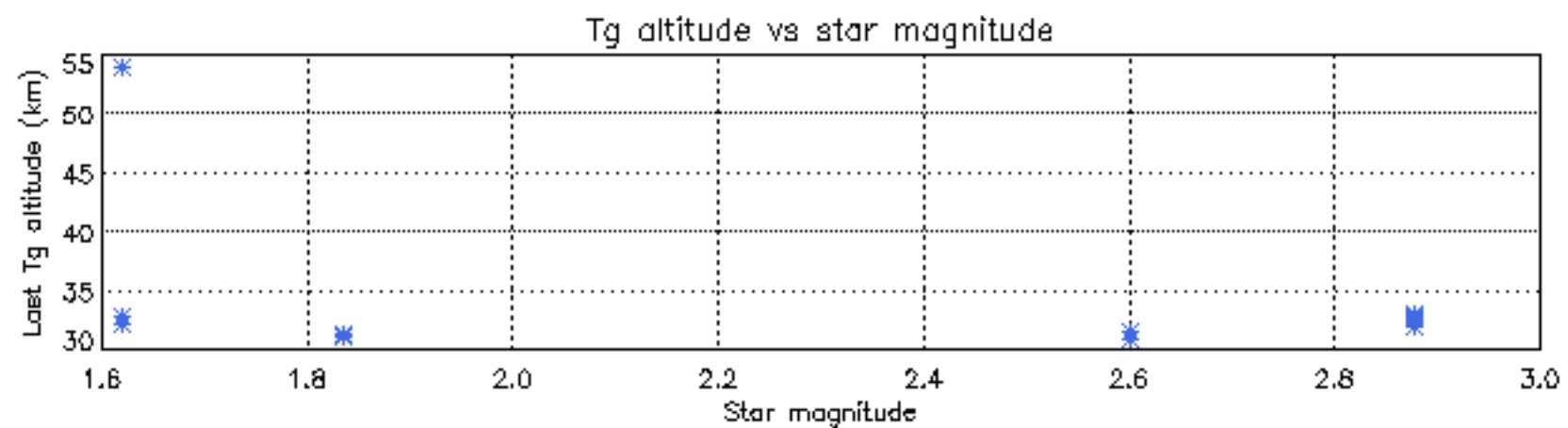
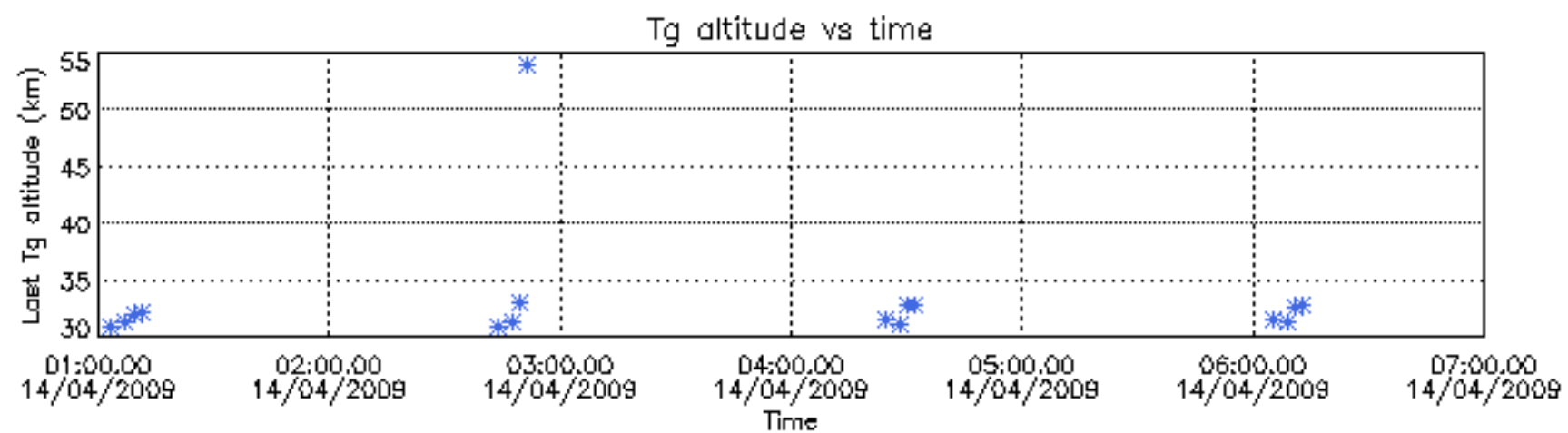
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

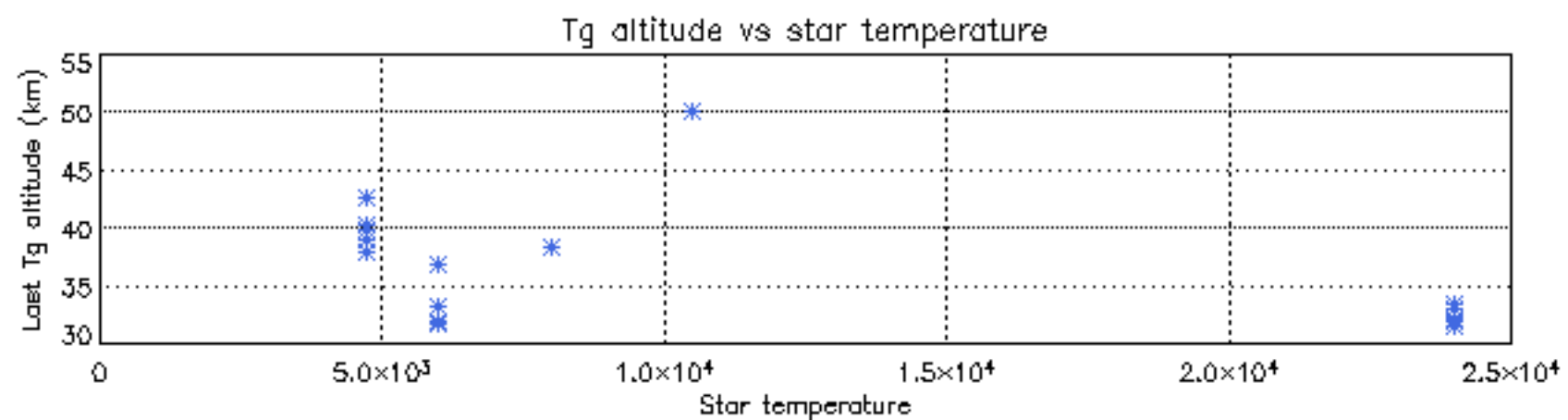
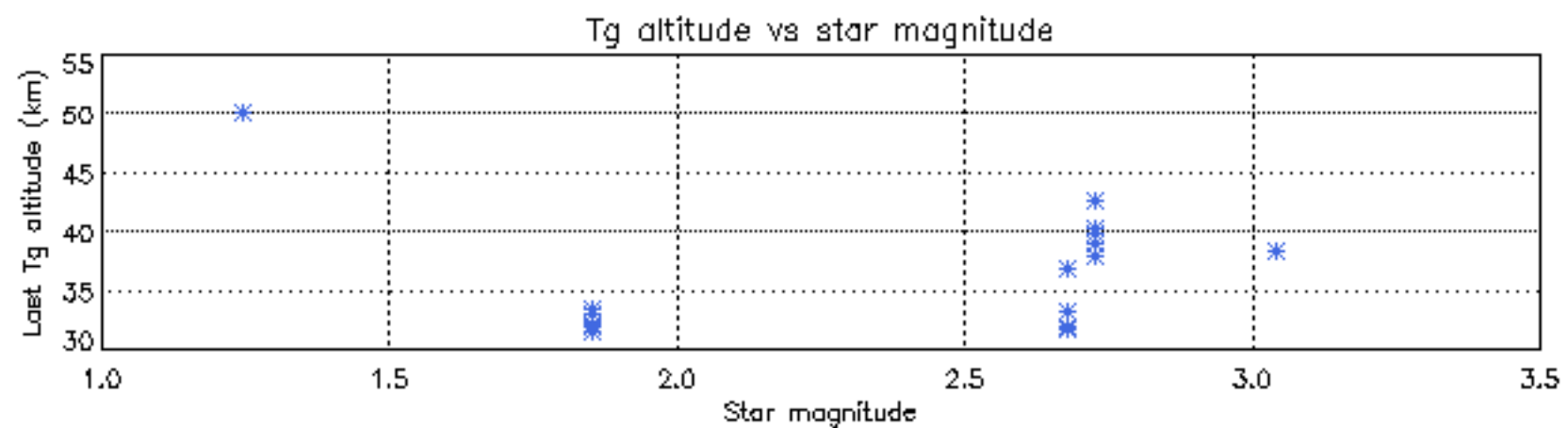
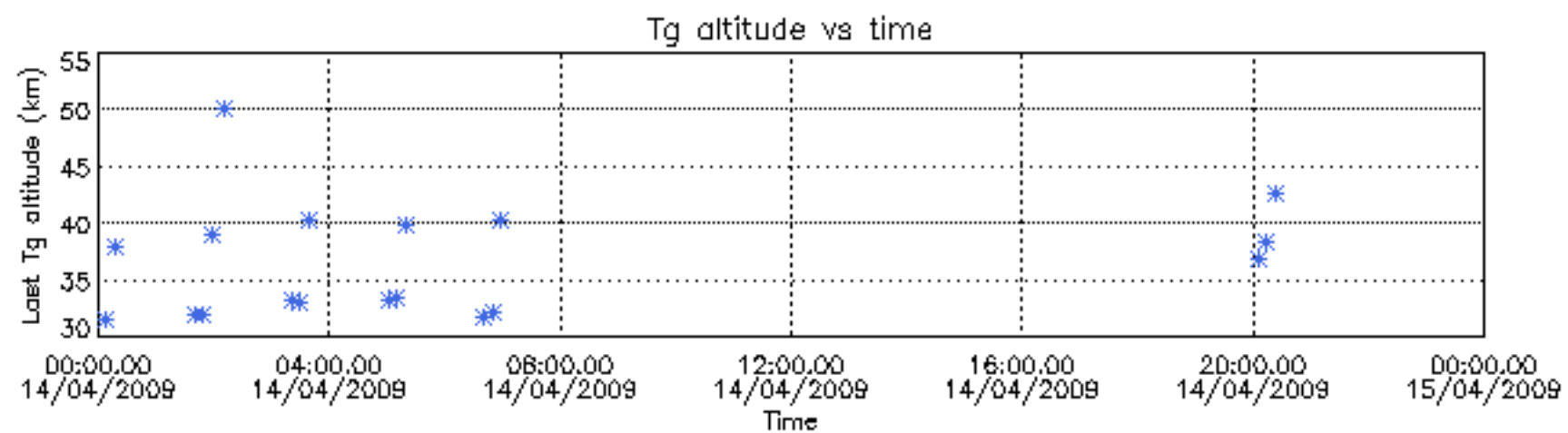


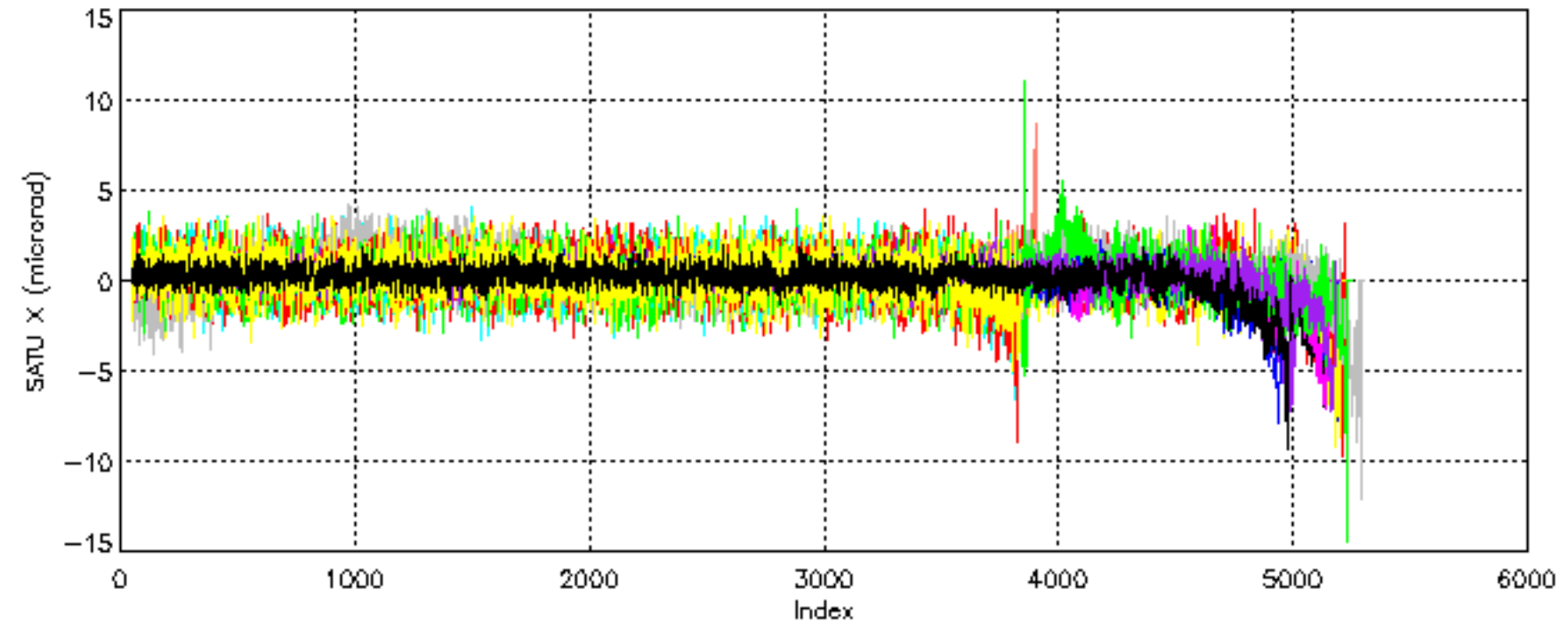
Tangent altitude at which the star is lost

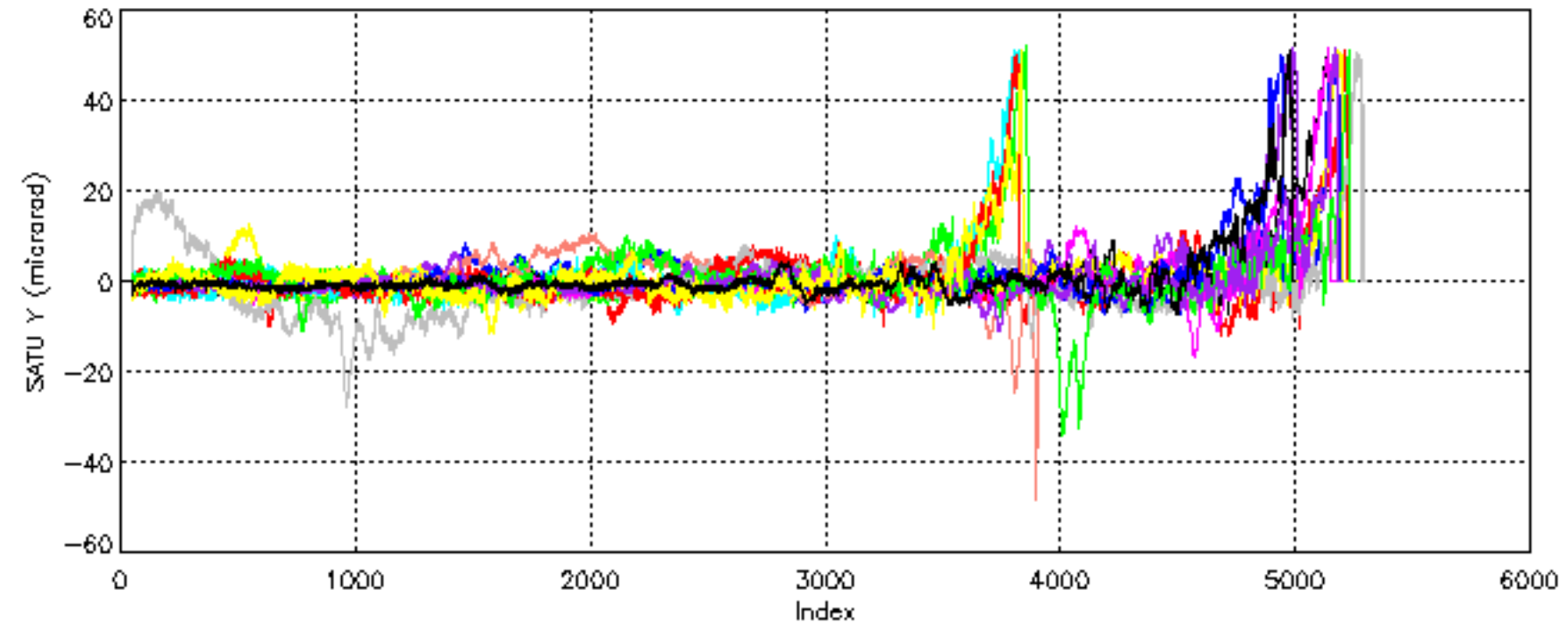




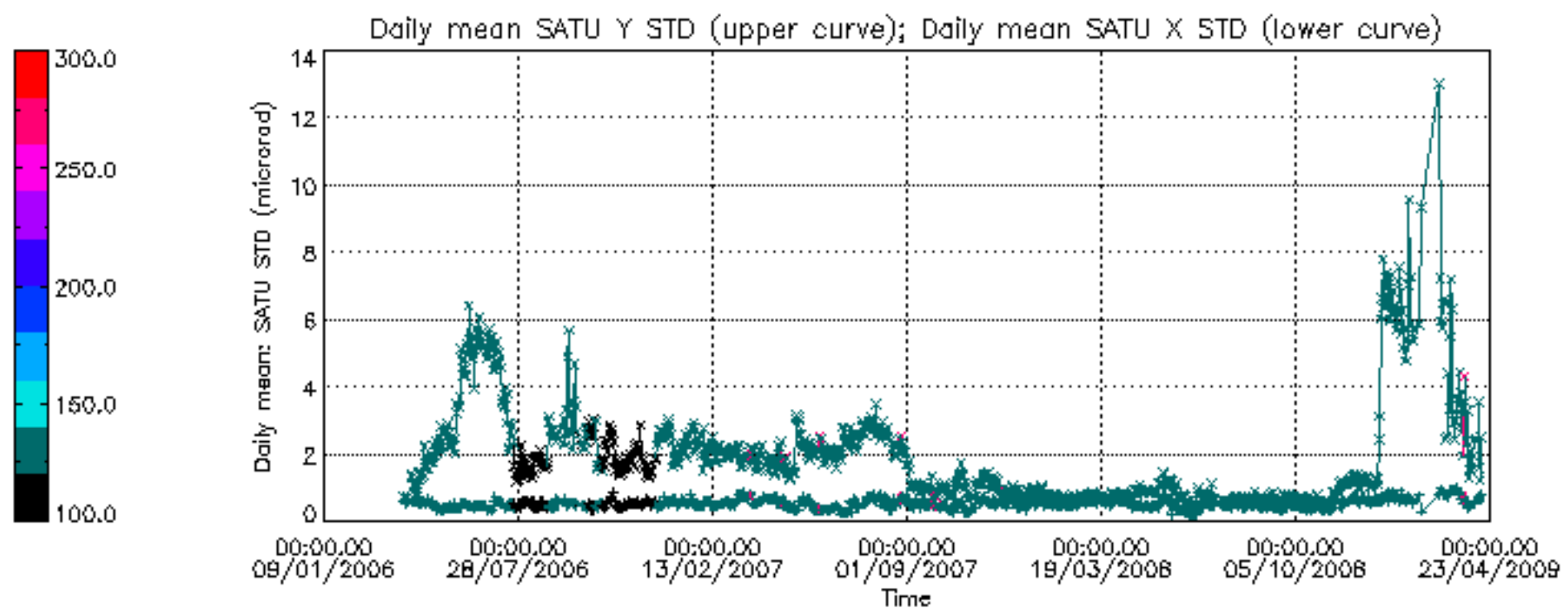
Tangent altitude at which the star is lost











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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; 3501.5; 01-APR-2009 20:34:04; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;37056  
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9; 4313.1; 01-APR-2009 20:47:36; Bright; 44.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 88; 0;37056  
10; 4435.9; 01-APR-2009 20:49:39; Bright; 43.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 86; 0;37056  
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9; 1107.1; 01-APR-2009 21:34:46; Dark ; 51.5; 54; 5The Cen ; 2.06; 4500;occ; 103; 0;37057  
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10; 2154.8; 02-APR-2009 01:13:25; Bright; 49.0; 138; 47Eps Vir ; 2.83; 4700;occ; 98; 0;37059
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13; 3499.2; 02-APR-2009 01:35:49; Bright; 48.0; 119; 14Eta Dra ; 2.73; 4700;occ; 96; 0;37059
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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5; 2693.6; 23-APR-2009 17:08:03; Bright; 45.5; 180; 27Gam Boo ; 3.04; 8000;occ; 91; 0;37369  
6; 3277.9; 23-APR-2009 17:17:47; Bright; 45.0; 119; 14Eta Dra ; 2.73; 4700;occ; 90; 0;37369  
7; 3855.9; 23-APR-2009 17:27:25; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;37369



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14; 6781.1; 23-APR-2009 18:16:10; Dark ; 59.5; 25; 35Lam Sco ; 1.62; 28000;occ; 119; 0;37369
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