

# GOMOS Daily Report 17-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](#)

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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	20APR2009 05:36:00
Data source version	GOMOS/5.00
Start time of products	17APR2009 00:03:55
Stop time of products	17APR2009 05:05:42
Store outputs in DB	Yes
Nb of level 1b prods	40
Nb of prods with errors	0

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

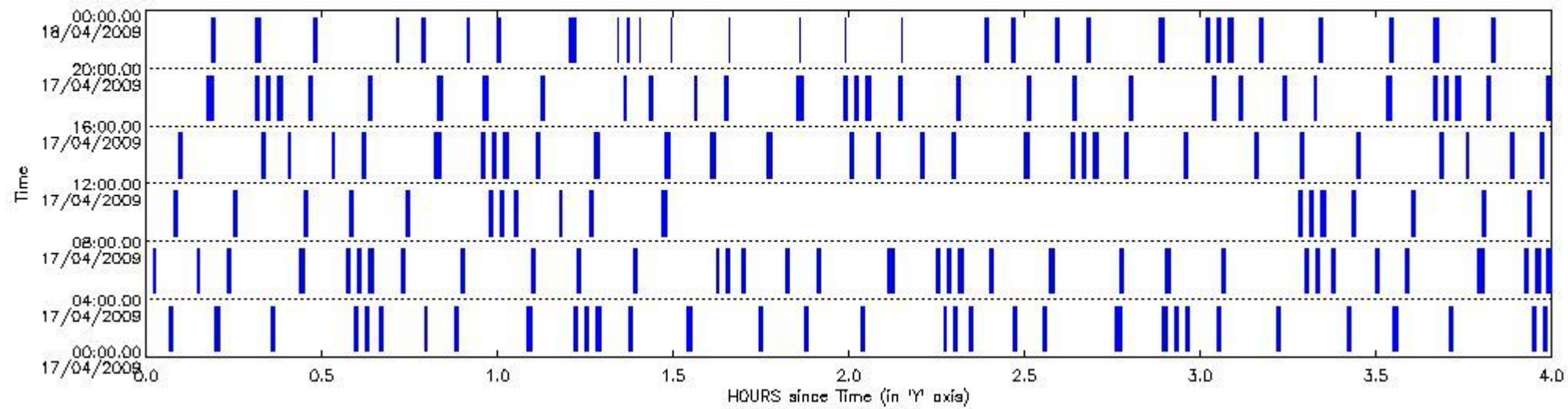
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

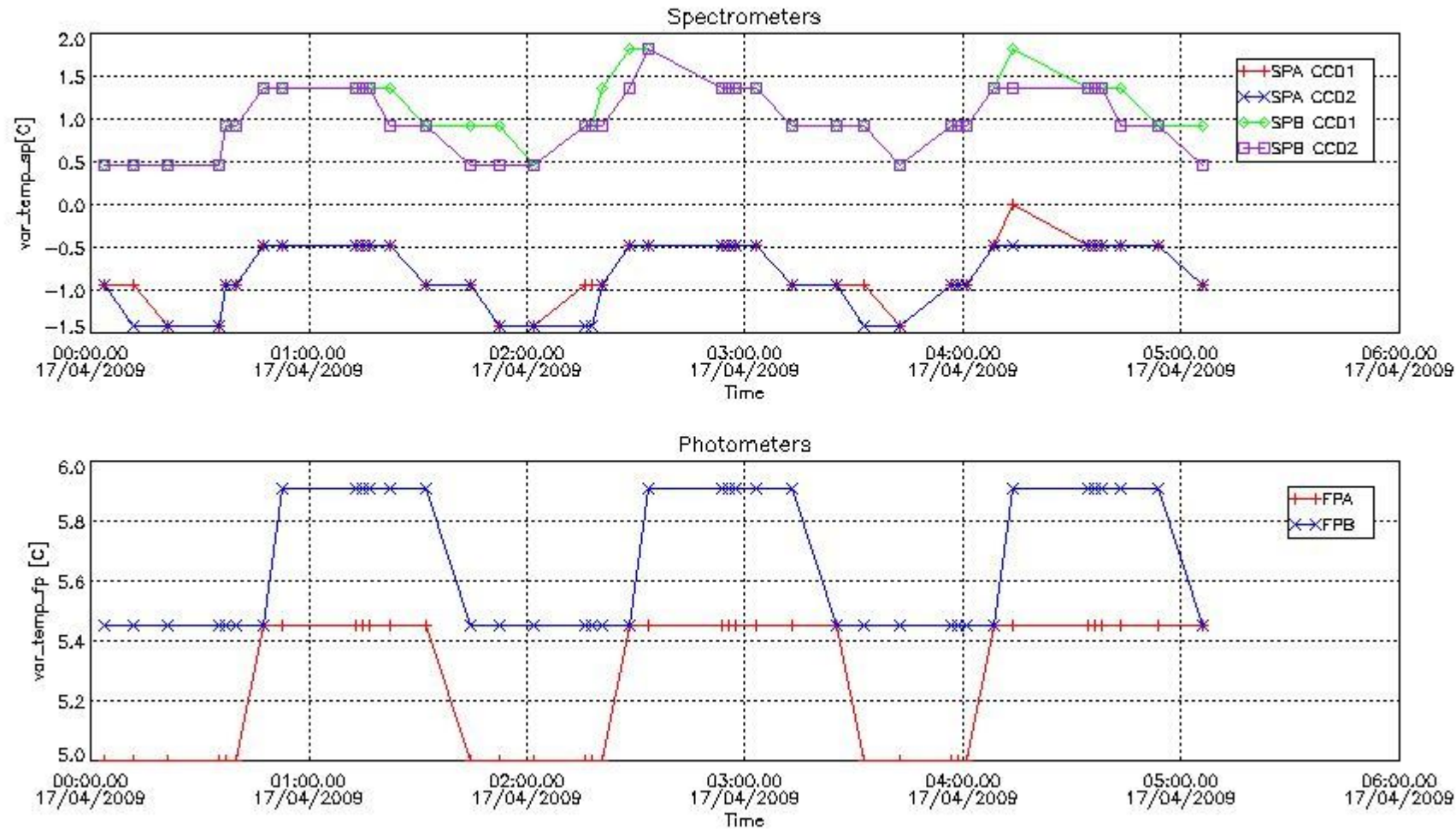
No missing products.

### 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_1PNPDE20090417_000355_000000362078_00145_37273_7341.N1	17-APR-2009 00:03:55	Bright	36.000	111	8Eta Boo	2.6800	6000.0	72	37273	No
2	GOM_TRA_1PNPDE20090417_001143_000000402078_00145_37273_7342.N1	17-APR-2009 00:11:43	Bright	39.500	180	27Gam Boo	3.0400	8000.0	79	37273	No
3	GOM_TRA_1PNPDE20090417_002123_000000352078_00145_37273_7343.N1	17-APR-2009 00:21:23	Bright	34.500	119	14Eta Dra	2.7270	4700.0	69	37273	No
4	GOM_TRA_1PNPDE20090417_003531_000000292078_00145_37273_7344.N1	17-APR-2009 00:35:31	Twilight	29.000	19	50Alp Cyg	1.2460	10500.0	58	37273	No
5	GOM_TRA_1PNPDE20090417_003719_000000322078_00145_37273_7345.N1	17-APR-2009 00:37:19	Twilight	32.000	66	37Gam Cyg	2.2080	5900.0	64	37273	No
6	GOM_TRA_1PNPDE20090417_003956_000000312078_00145_37273_7346.N1	17-APR-2009 00:39:56	Twilight	30.500	92	53Eps Cyg	2.5000	4500.0	61	37273	No
7	GOM_TRA_1PNPDE20090417_004728_000000272078_00145_37273_7347.N1	17-APR-2009 00:47:28	Dark	27.000	61	8Eps Peg	2.1000	3900.0	54	37273	No
8	GOM_TRA_1PNPDE20090417_005238_000000292078_00145_37273_7348.N1	17-APR-2009 00:52:38	Dark	28.500	154	22Bet Aqr	2.8990	5700.0	57	37273	No
9	GOM_TRA_1PNPDE20090417_011254_000000402078_00146_37274_7488.N1	17-APR-2009 01:12:54	Dark	40.000	38	20Eps Sgr	1.8360	11000.0	80	37274	No
10	GOM_TRA_1PNPDE20090417_011453_000000352078_00146_37274_7489.N1	17-APR-2009 01:14:53	Dark	35.000	147	Alp Ara	2.8770	26000.0	70	37274	No
11	GOM_TRA_1PNPDE20090417_011645_000000452078_00146_37274_7490.N1	17-APR-2009 01:16:45	Straylight	45.000	25	35Lam Sco	1.6200	28000.0	90	37274	No
12	GOM_TRA_1PNPDE20090417_012216_000000342078_00146_37274_7491.N1	17-APR-2009 01:22:16	Straylight	34.000	131	Gam Lup	2.8000	26000.0	68	37274	No

13	GOM_TRA_1PNPDE20090417_013225_000000382078_00146_37274_7492.N1	17-APR-2009 01:32:25	Bright	38.000	122	9Alp2Lib	2.7470	9700.0	76	37274	No
14	GOM_TRA_1PNPDE20090417_014430_000000362078_00146_37274_7493.N1	17-APR-2009 01:44:30	Bright	35.500	111	8Eta Boo	2.6800	6000.0	71	37274	No
15	GOM_TRA_1PNPDE20090417_015218_000000402078_00146_37274_7494.N1	17-APR-2009 01:52:18	Bright	39.500	180	27Gam Boo	3.0400	8000.0	79	37274	No
16	GOM_TRA_1PNPDE20090417_020159_000000352078_00146_37274_7495.N1	17-APR-2009 02:01:59	Bright	34.500	119	14Eta Dra	2.7270	4700.0	69	37274	No
17	GOM_TRA_1PNPDE20090417_021607_000000302078_00146_37274_7655.N1	17-APR-2009 02:16:07	Twilight	29.500	19	50Alp Cyg	1.2460	10500.	59	37274	No
18	GOM_TRA_1PNPDE20090417_021755_000000332078_00146_37274_7656.N1	17-APR-2009 02:17:55	Twilight	32.500	66	37Gam Cyg	2.2080	5900.0	65	37274	No
19	GOM_TRA_1PNPDE20090417_022032_000000312078_00146_37274_7657.N1	17-APR-2009 02:20:32	Twilight	31.000	92	53Eps Cyg	2.5000	4500.0	62	37274	No
20	GOM_TRA_1PNPDE20090417_022804_000000282078_00146_37274_7658.N1	17-APR-2009 02:28:04	Dark	27.500	61	8Eps Peg	2.1000	3900.0	55	37274	No
21	GOM_TRA_1PNPDE20090417_023314_000000302078_00146_37274_7659.N1	17-APR-2009 02:33:14	Dark	30.000	154	22Bet Aqr	2.8990	5700.0	60	37274	No
22	GOM_TRA_1PNPDE20090417_025331_000000402078_00147_37275_7660.N1	17-APR-2009 02:53:31	Dark	40.000	38	20Eps Sgr	1.8360	11000.	80	37275	No
23	GOM_TRA_1PNPDE20090417_025530_000000352078_00147_37275_7661.N1	17-APR-2009 02:55:30	Dark	35.000	147	Alp Ara	2.8770	26000.	70	37275	No
24	GOM_TRA_1PNPDE20090417_025722_000000452078_00147_37275_7662.N1	17-APR-2009 02:57:22	Straylight	45.000	25	35Lam Sco	1.6200	28000.	90	37275	No
25	GOM_TRA_1PNPDE20090417_030253_000000342078_00147_37275_7663.N1	17-APR-2009 03:02:53	Straylight	34.000	131	Gam Lup	2.8000	26000.	68	37275	No
26	GOM_TRA_1PNPDE20090417_031301_000000382078_00147_37275_7664.N1	17-APR-2009 03:13:01	Bright	38.000	122	9Alp2Lib	2.7470	9700.0	76	37275	No
27	GOM_TRA_1PNPDE20090417_032506_000000362078_00147_37275_7665.N1	17-APR-2009 03:25:06	Bright	35.500	111	8Eta Boo	2.6800	6000.0	71	37275	No
28	GOM_TRA_1PNPDE20090417_033253_000000392078_00147_37275_7666.N1	17-APR-2009 03:32:53	Bright	39.000	180	27Gam Boo	3.0400	8000.0	78	37275	No
29	GOM_TRA_1PNPDE20090417_034234_000000342078_00147_37275_7667.N1	17-APR-2009 03:42:34	Twilight	33.500	119	14Eta Dra	2.7270	4700.0	67	37275	No
30	GOM_TRA_1PNPDE20090417_035643_000000292078_00147_37275_7790.N1	17-APR-2009 03:56:43	Twilight	28.500	19	50Alp Cyg	1.2460	10500.	57	37275	No
31	GOM_TRA_1PNPDE20090417_035831_000000322078_00147_37275_8168.N1	17-APR-2009 03:58:31	Twilight	32.000	66	37Gam Cyg	2.2080	5900.0	64	37275	No
32	GOM_TRA_1PNPDE20090417_040108_000000302078_00147_37275_8169.N1	17-APR-2009 04:01:08	Twilight	30.000	92	53Eps Cyg	2.5000	4500.0	60	37275	No
33	GOM_TRA_1PNPDE20090417_040841_000000272078_00147_37275_7793.N1	17-APR-2009 04:08:41	Dark	26.500	61	8Eps Peg	2.1000	3900.0	53	37275	No
34	GOM_TRA_1PNPDE20090417_041351_000000292078_00147_37275_7794.N1	17-APR-2009 04:13:51	Dark	29.000	154	22Bet Aqr	2.8990	5700.0	58	37275	No
35	GOM_TRA_1PNPDE20090417_043409_000000382078_00148_37276_7795.N1	17-APR-2009 04:34:09	Dark	38.000	38	20Eps Sgr	1.8360	11000.	76	37276	No
36	GOM_TRA_1PNPDE20090417_043607_000000352078_00148_37276_8173.N1	17-APR-2009 04:36:07	Dark	35.000	147	Alp Ara	2.8770	26000.	70	37276	No
37	GOM_TRA_1PNPDE20090417_043759_000000452078_00148_37276_7797.N1	17-APR-2009 04:37:59	Straylight	45.000	25	35Lam Sco	1.6200	28000.	90	37276	No
38	GOM_TRA_1PNPDE20090417_044329_000000342078_00148_37276_7798.N1	17-APR-2009 04:43:29	Straylight	34.000	131	Gam Lup	2.8000	26000.	68	37276	No
39	GOM_TRA_1PNPDE20090417_045337_000000392078_00148_37276_7799.N1	17-APR-2009 04:53:37	Bright	38.500	122	9Alp2Lib	2.7470	9700.0	77	37276	No
40	GOM_TRA_1PNPDE20090417_050542_000000362078_00148_37276_7800.N1	17-APR-2009 05:05:42	Bright	35.500	111	8Eta Boo	2.6800	6000.0	71	37276	No

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



#### 4. Overview of dark signal processing per product

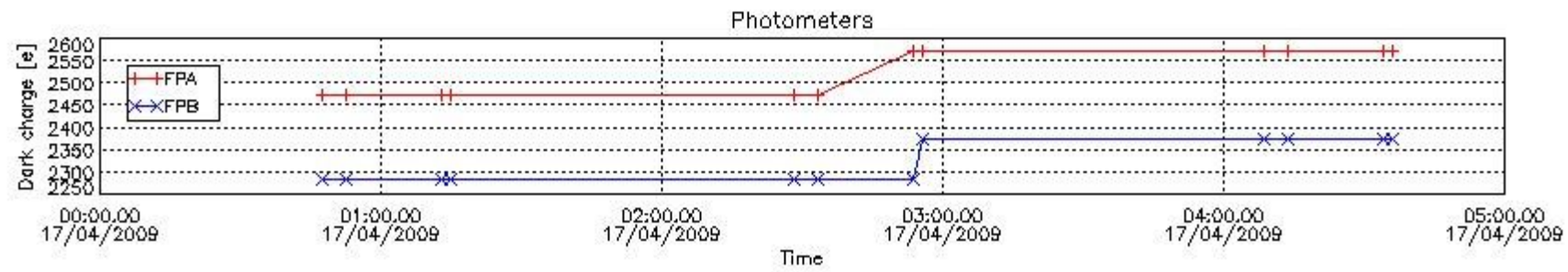
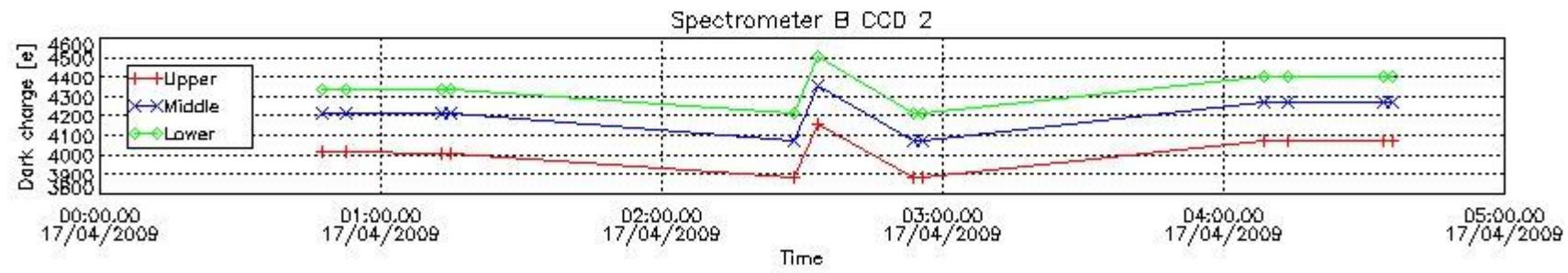
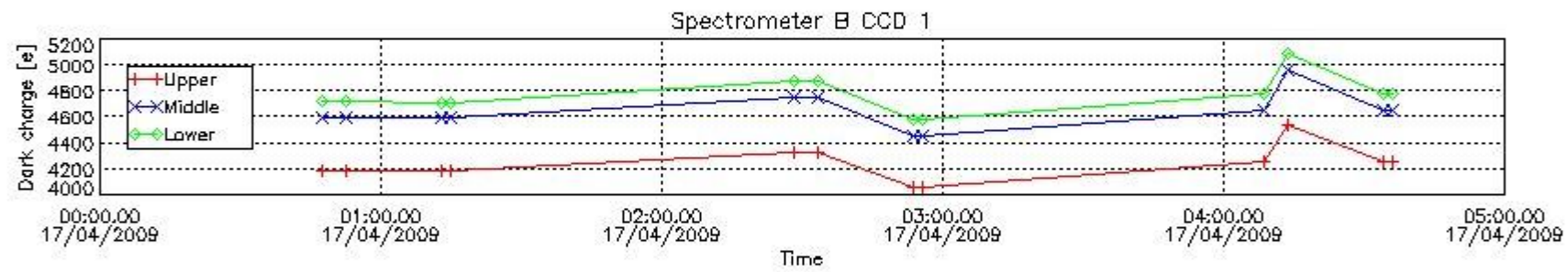
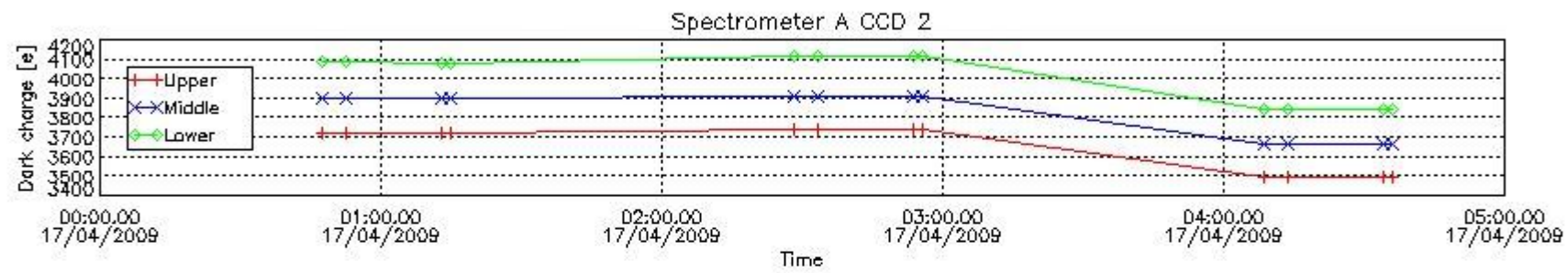
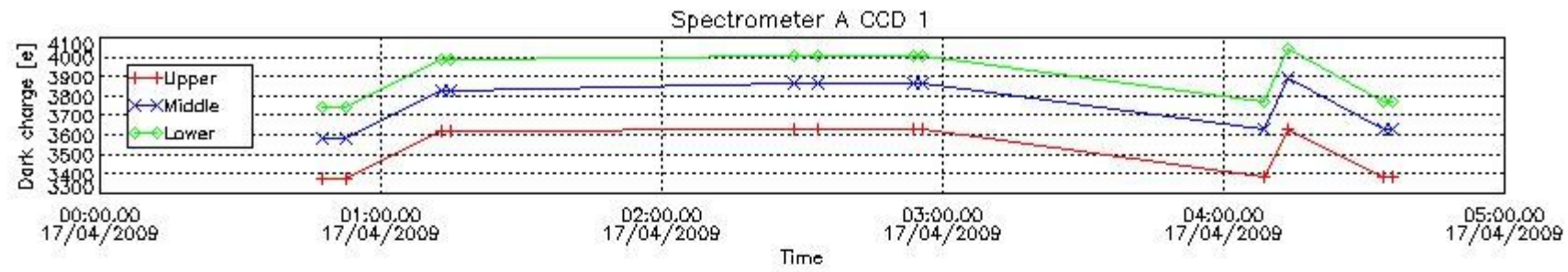
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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





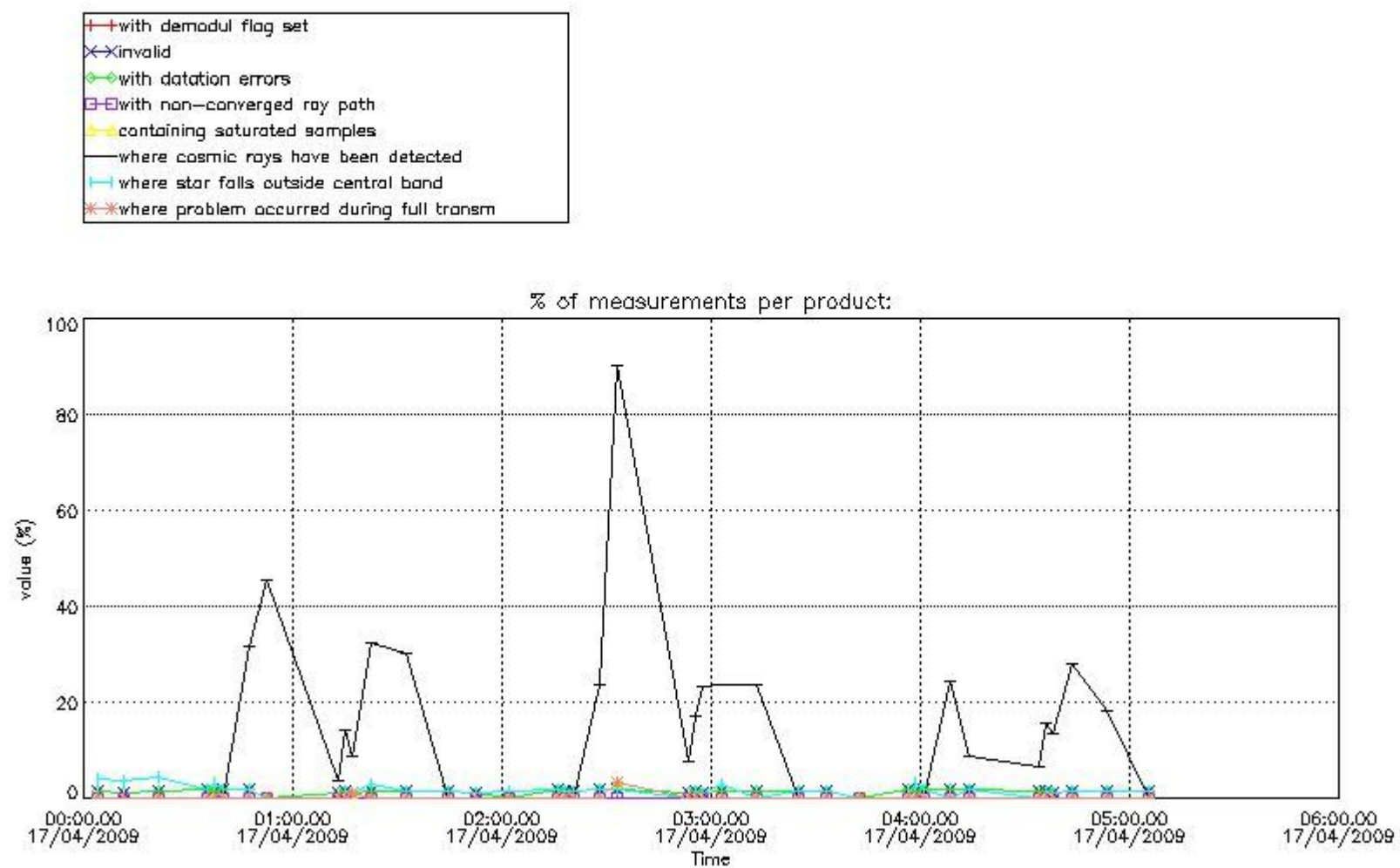
## 5. Demodulation flag and quality information monitoring

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.

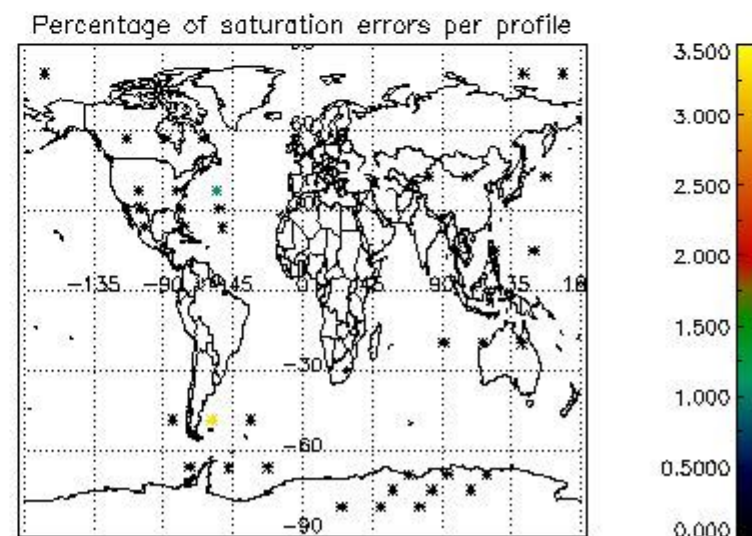
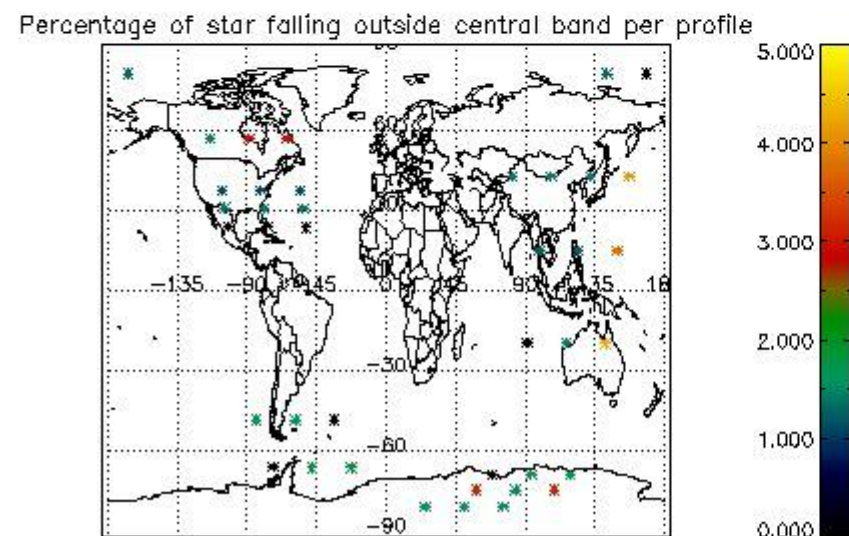
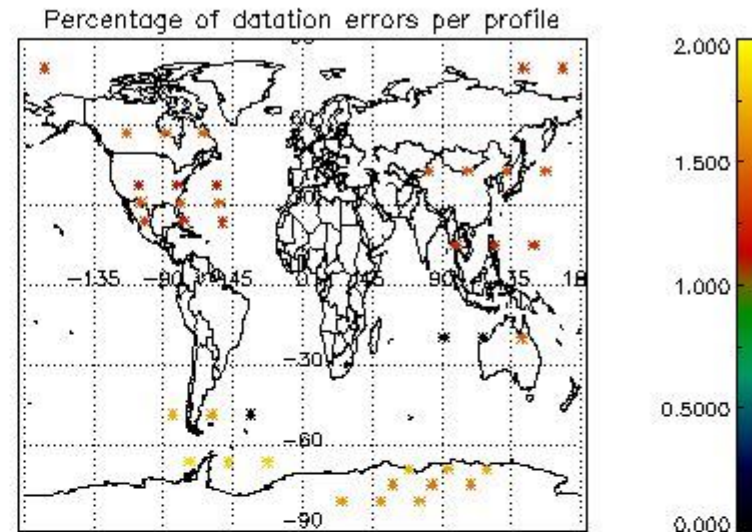
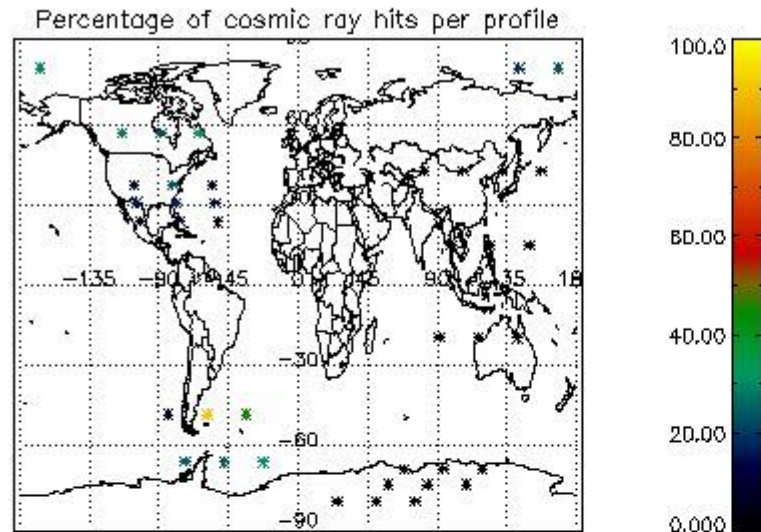
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	30.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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



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

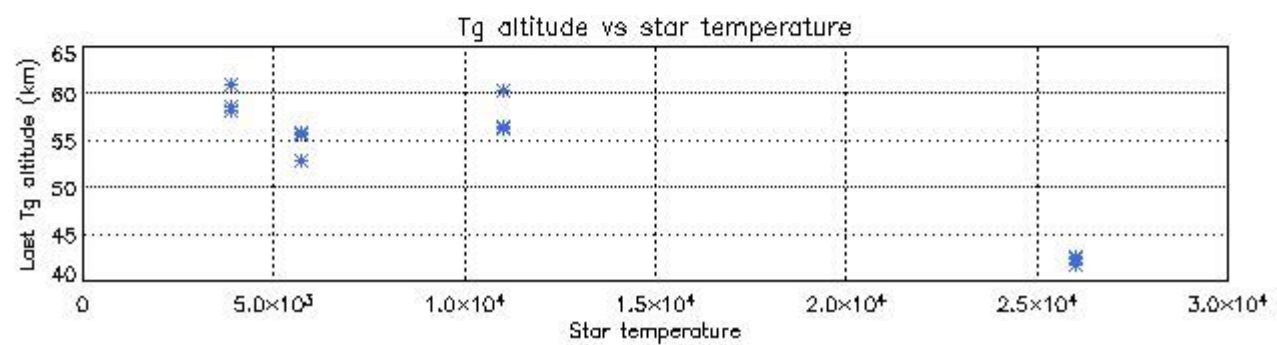
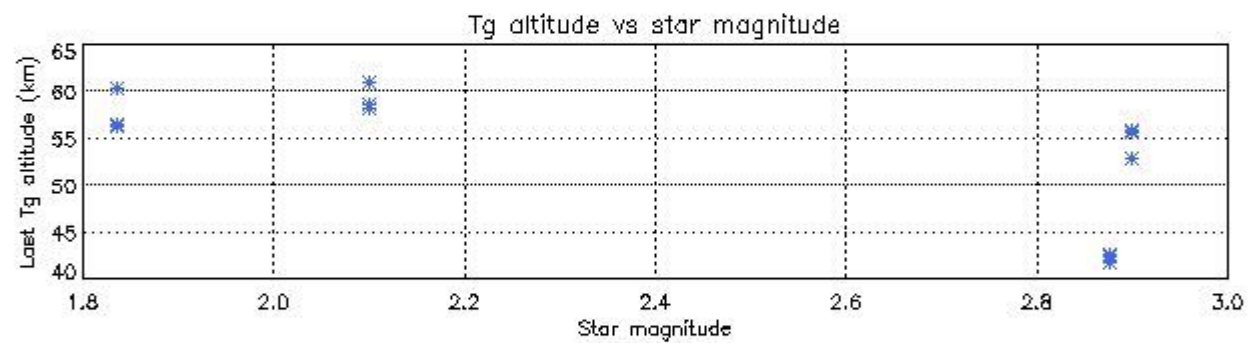
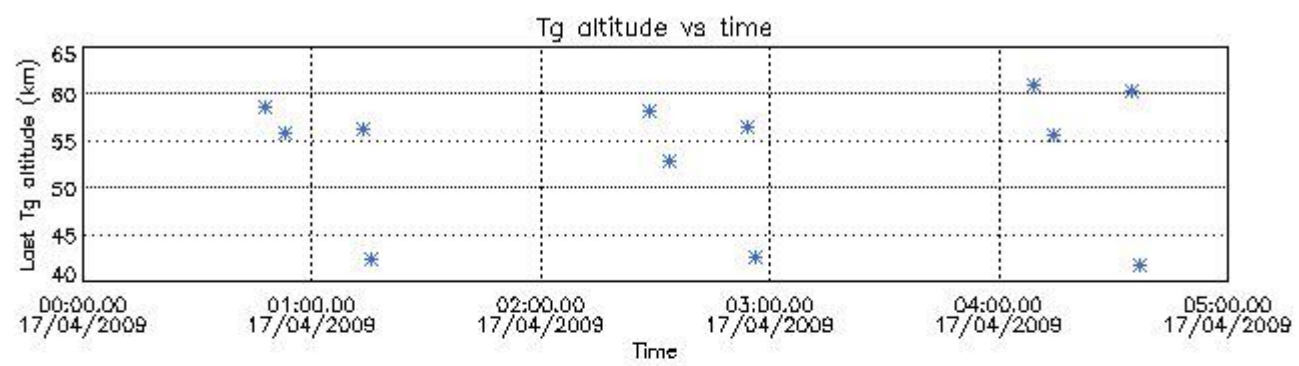
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	53.456	44.250	NaN
St. deviation:	7.1216	3.1309	NaN
Maximum:	60.910	48.521	NaN
Minimum:	41.778	40.228	NaN
Number of data:	12.000	12.000	NaN

### 6.2 Plot for DARK limb products



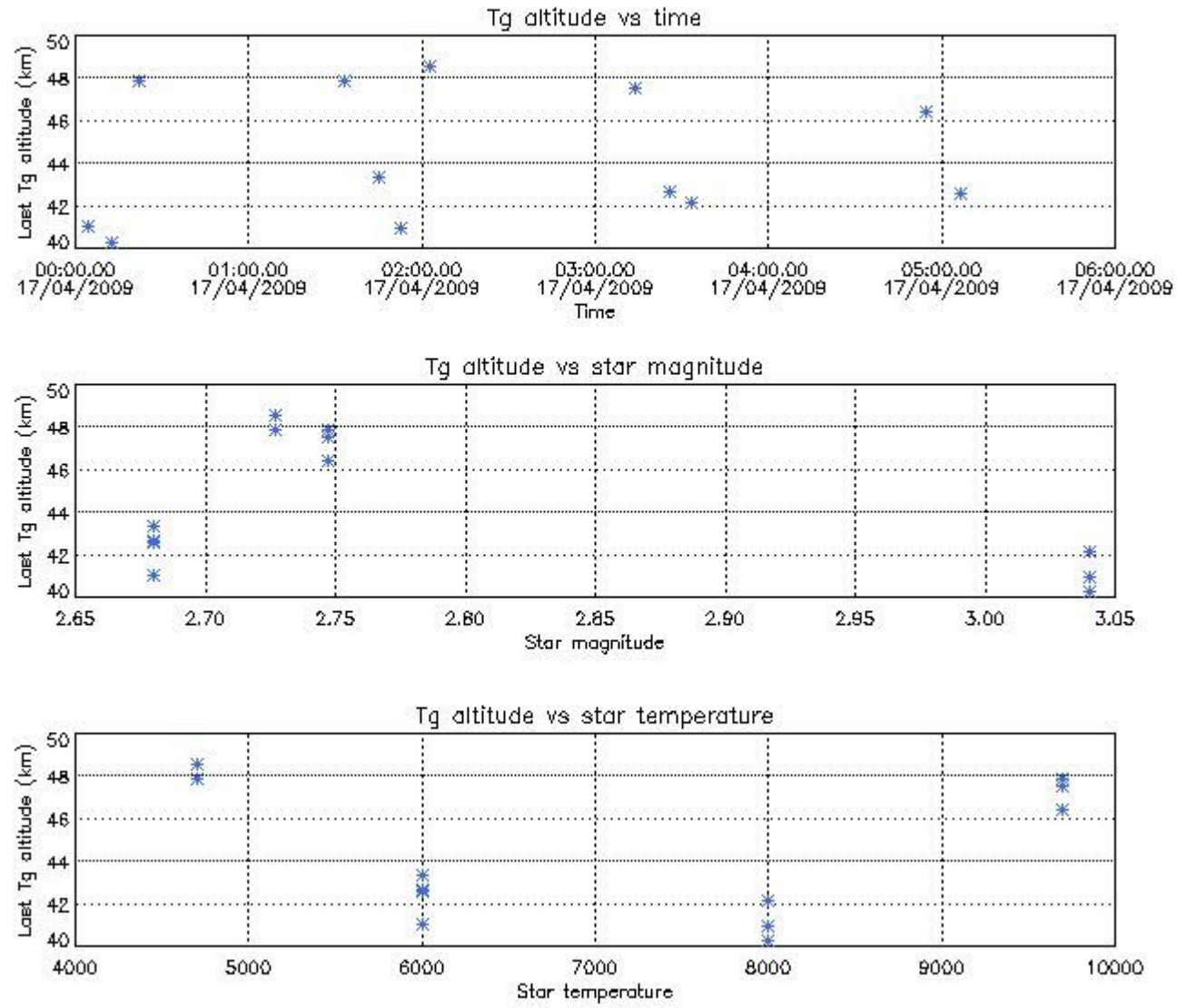
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

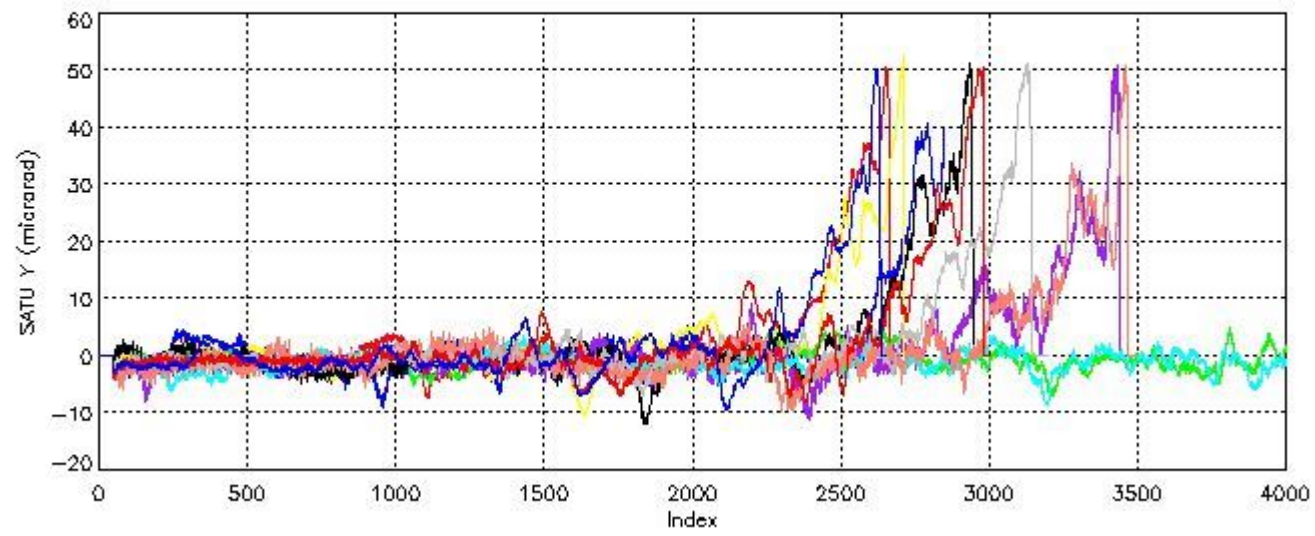
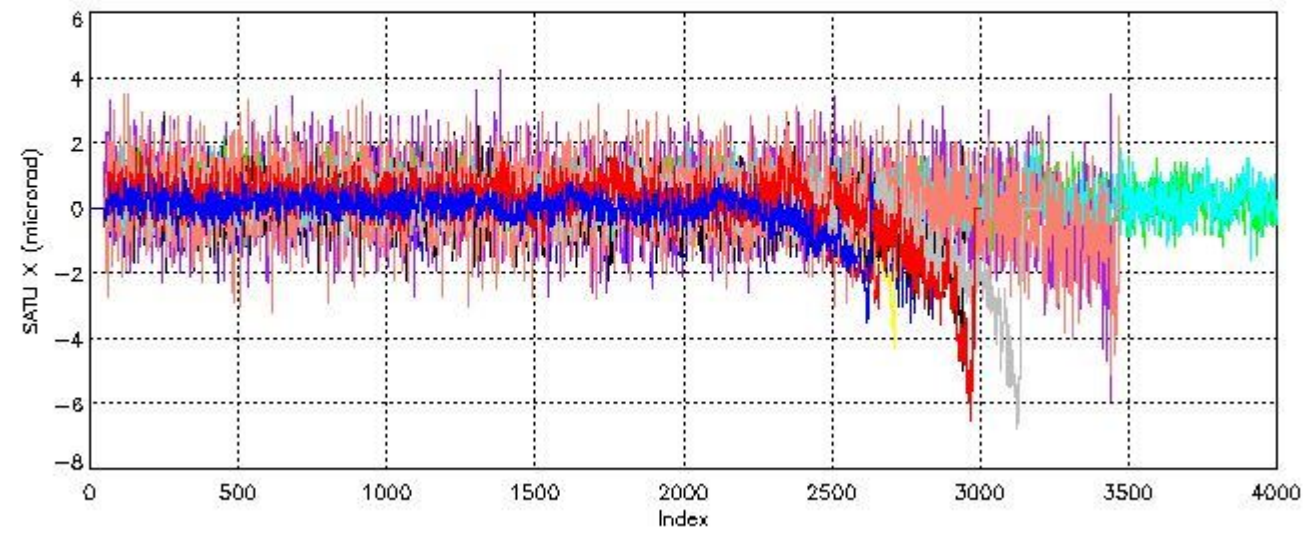


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.28073	-0.90100	0.44230	-1.0327
St. deviation:	0.62670	1.7432	1.0273	1.7144
Maximum:	3.5000	14.700	5.7000	10.300
Minimum:	-3.2000	-9.0000	-4.8000	-14.500

Number of data:	13900.	13900.	13650.	13650.
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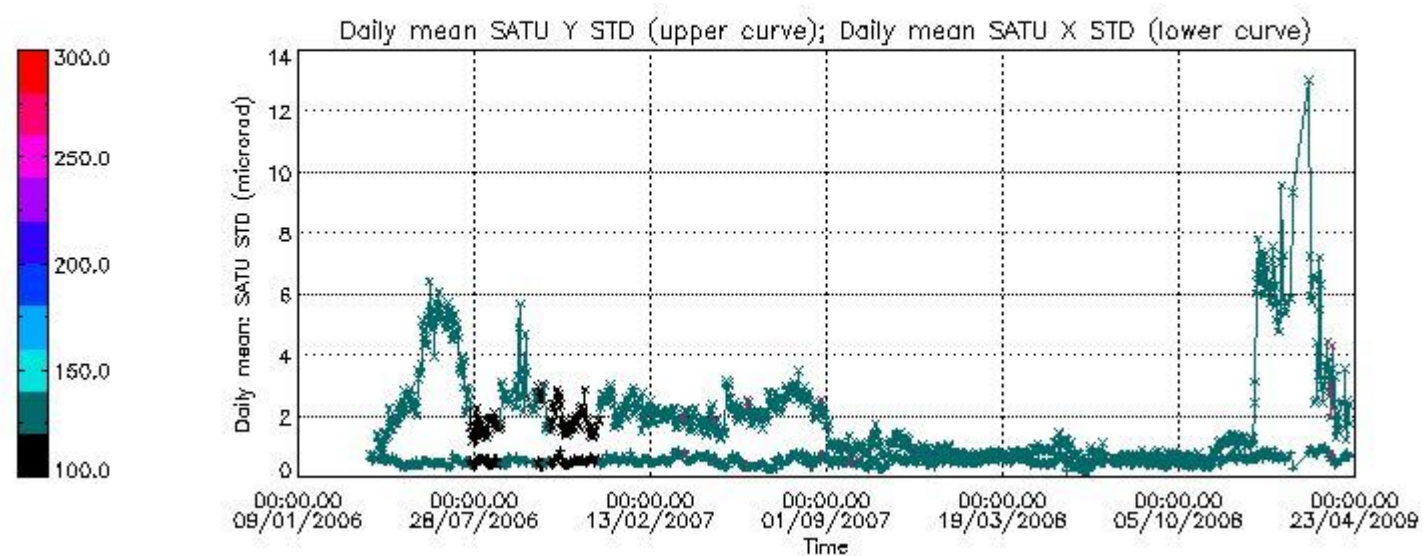
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

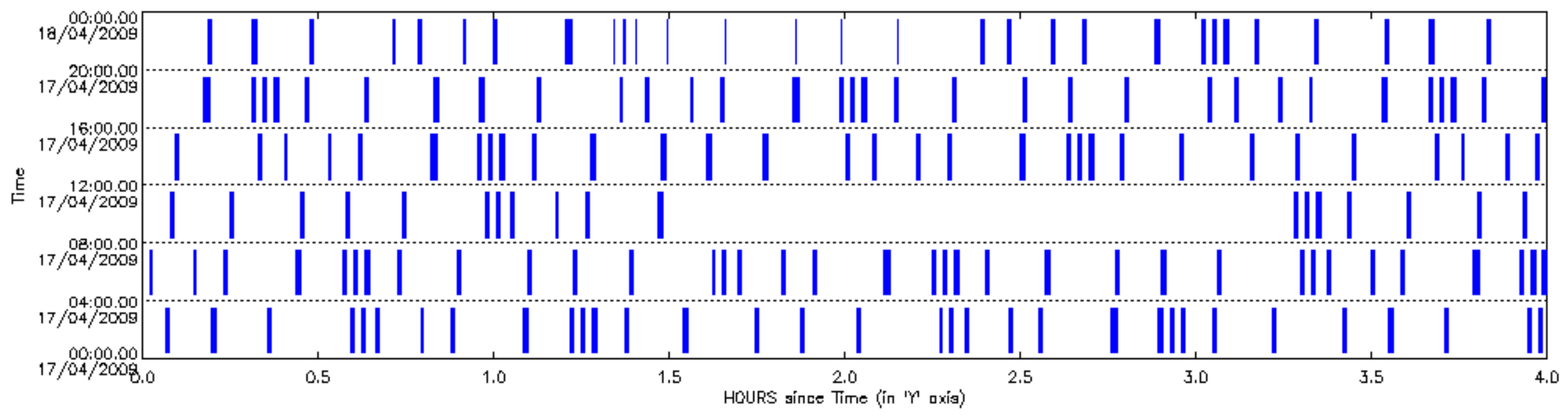
Lower curve: STD of SATU X axis



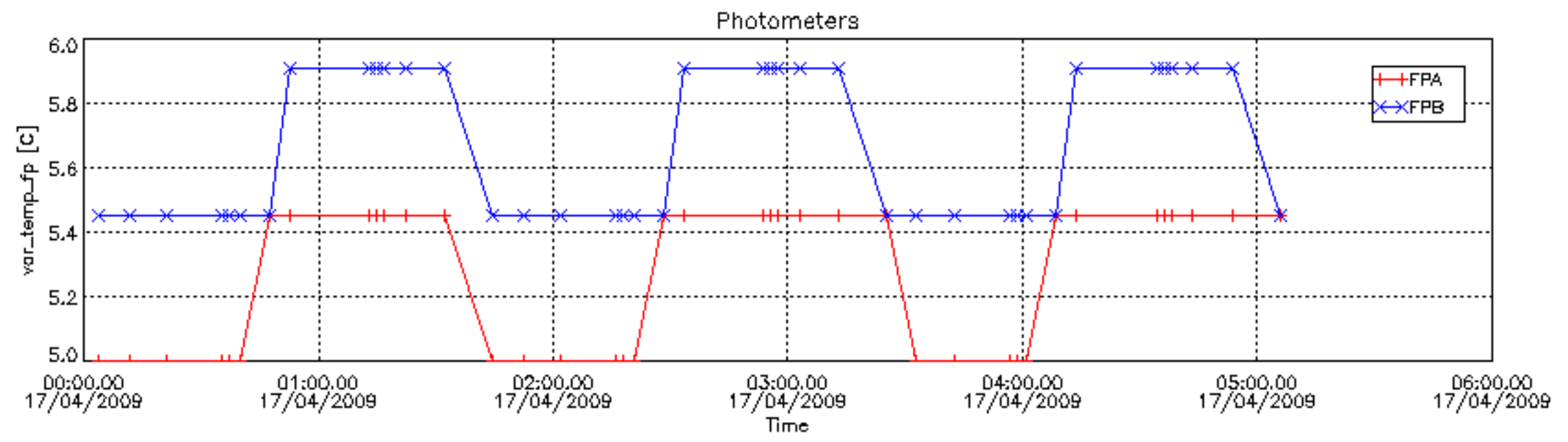
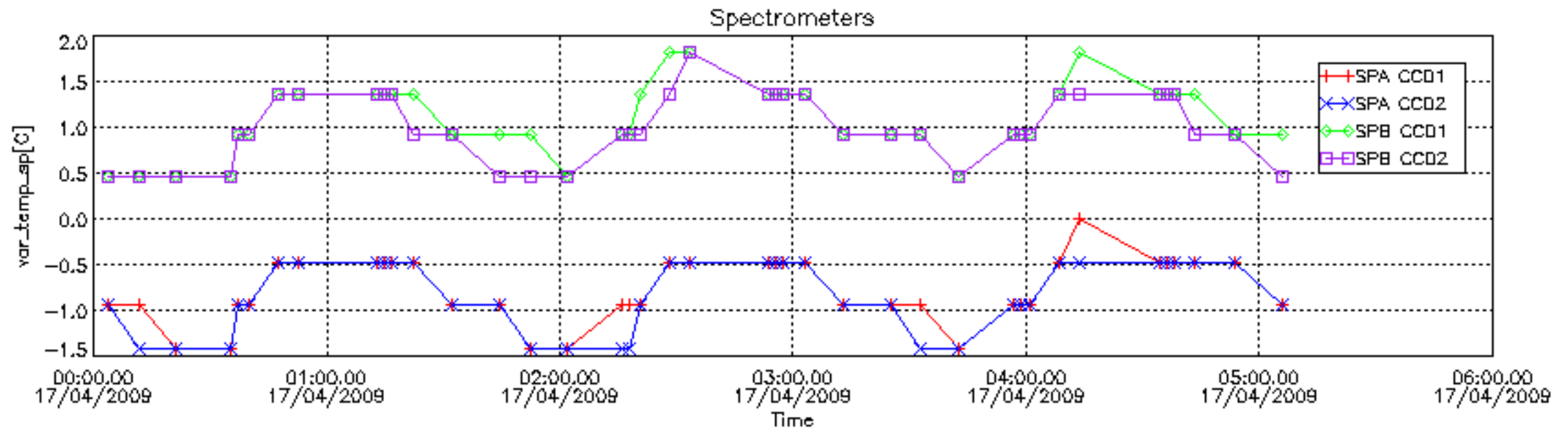
### 8. Auxiliary Data Files used for the production reported in section 2.4

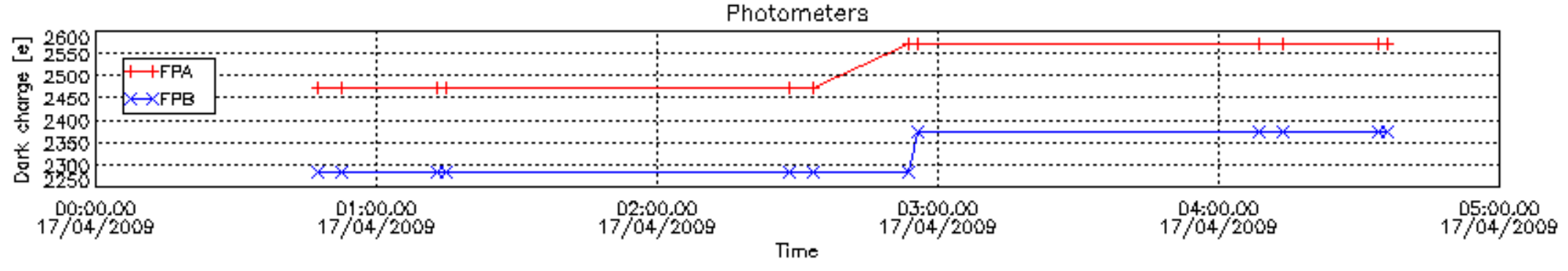
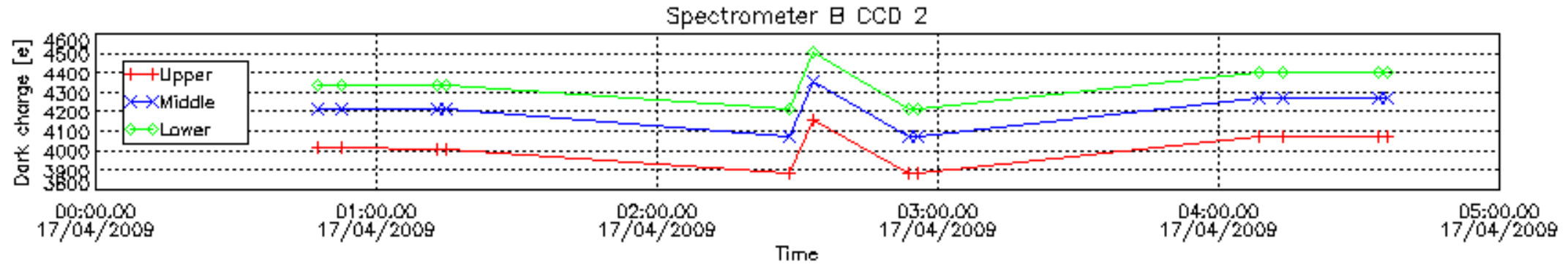
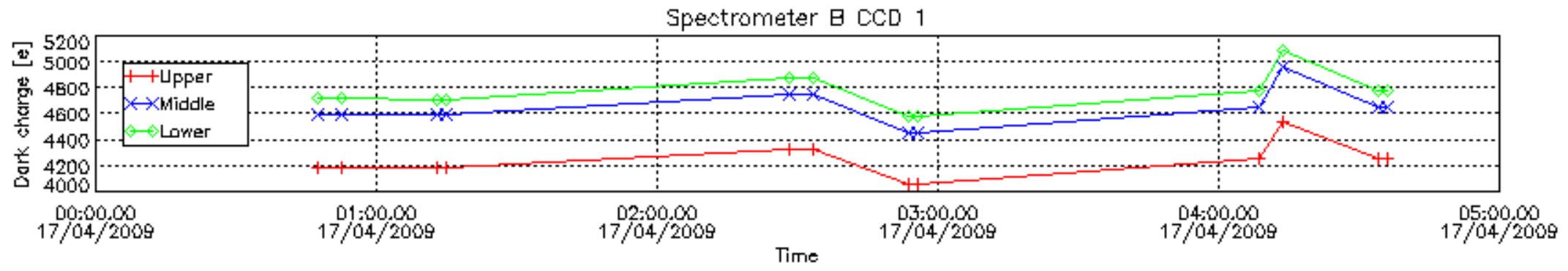
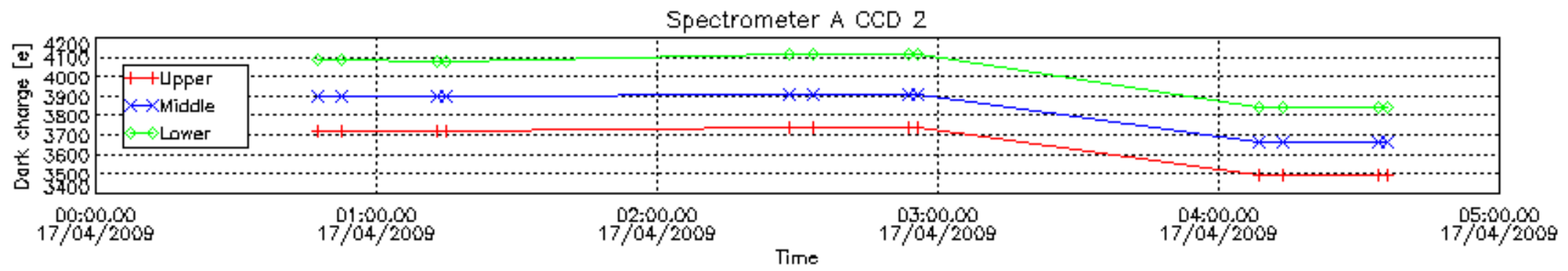
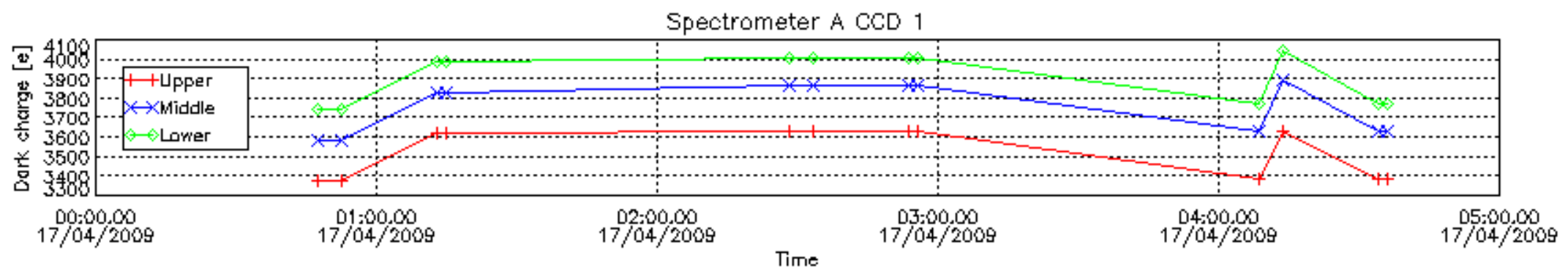
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

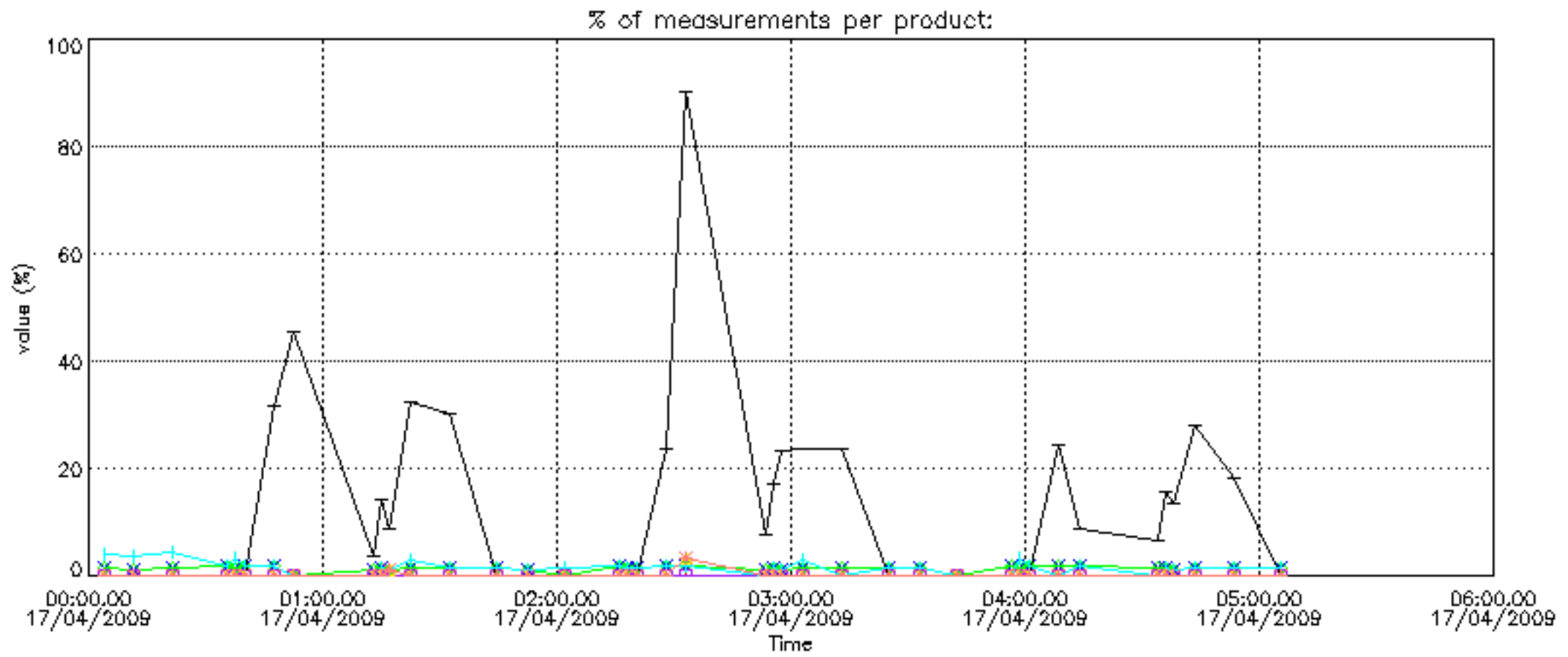
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	17-APR-2009 00:03:55
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090414_083029_20090412_000000_20100101_000000	1	17-APR-2009 00:03:55
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	17-APR-2009 00:03:55
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	17-APR-2009 00:03:55
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	17-APR-2009 00:03:55
ECMWF_FILE	AUX_ECF_AXNECM20090416_064112_20090416_210000_20090417_090000	1	17-APR-2009 00:03:55
ECMWF_FILE	AUX_ECF_AXNECM20090416_182619_20090417_030000_20090417_150000	30	17-APR-2009 03:56:43
OPTIONAL_ECMWF_FILE	MISSING	1	17-APR-2009 00:03:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090416_212816_000057382078_00143_37271_7764.N1	1	17-APR-2009 00:03:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090416_230913_000057382078_00144_37272_7765.N1	9	17-APR-2009 01:12:54
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090417_005010_000044632078_00145_37273_7766.N1	17	17-APR-2009 02:16:07
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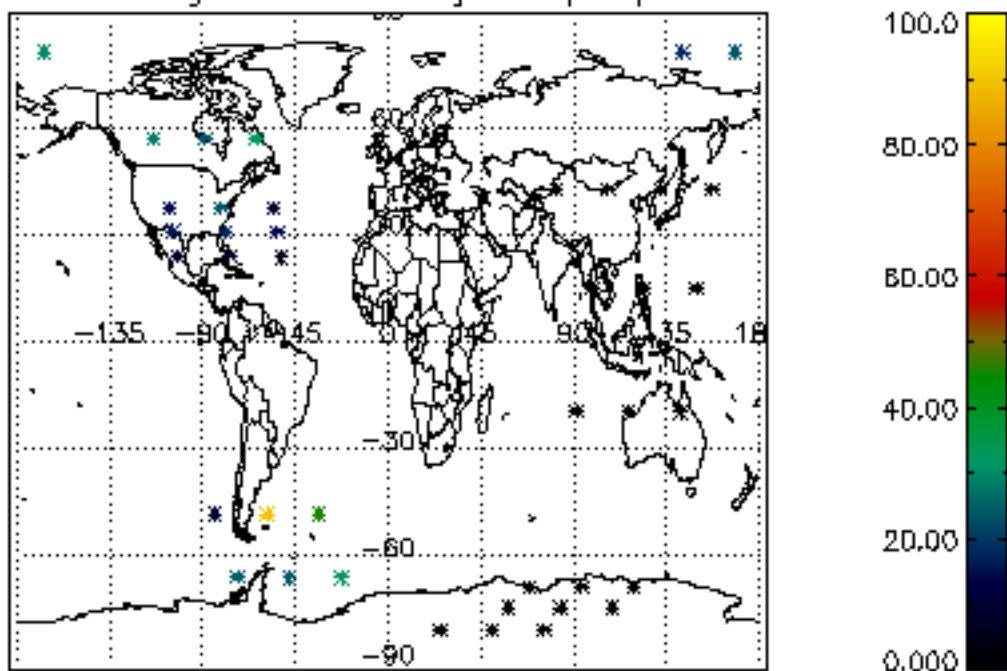




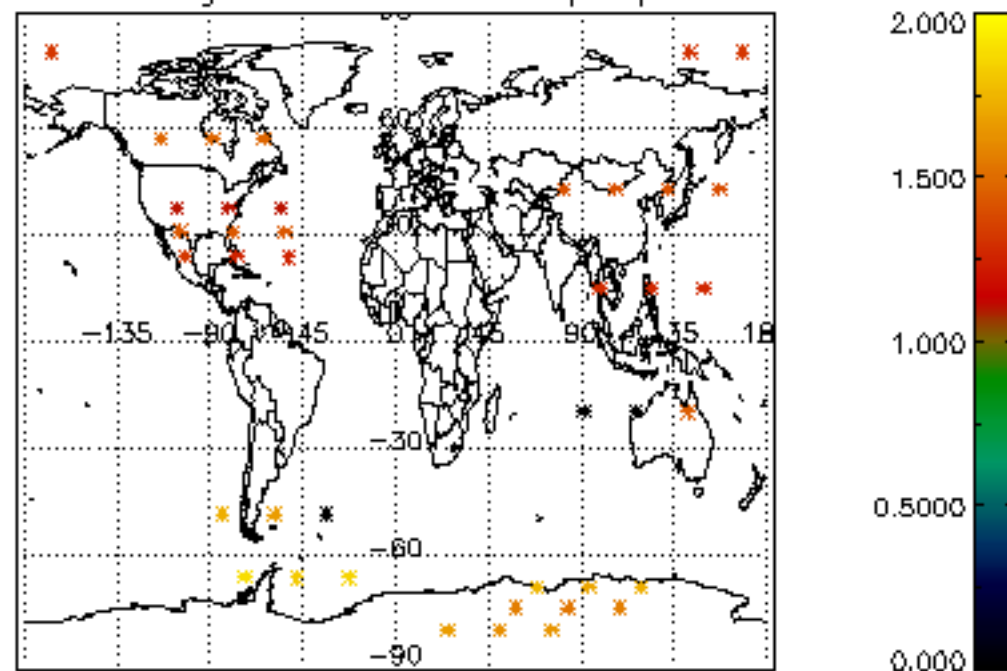




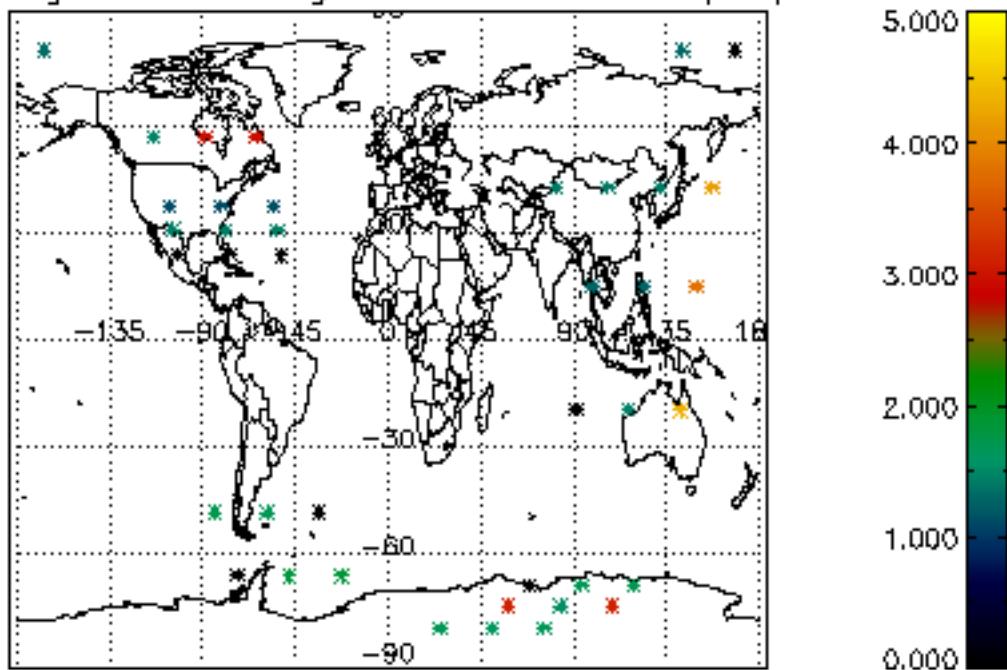
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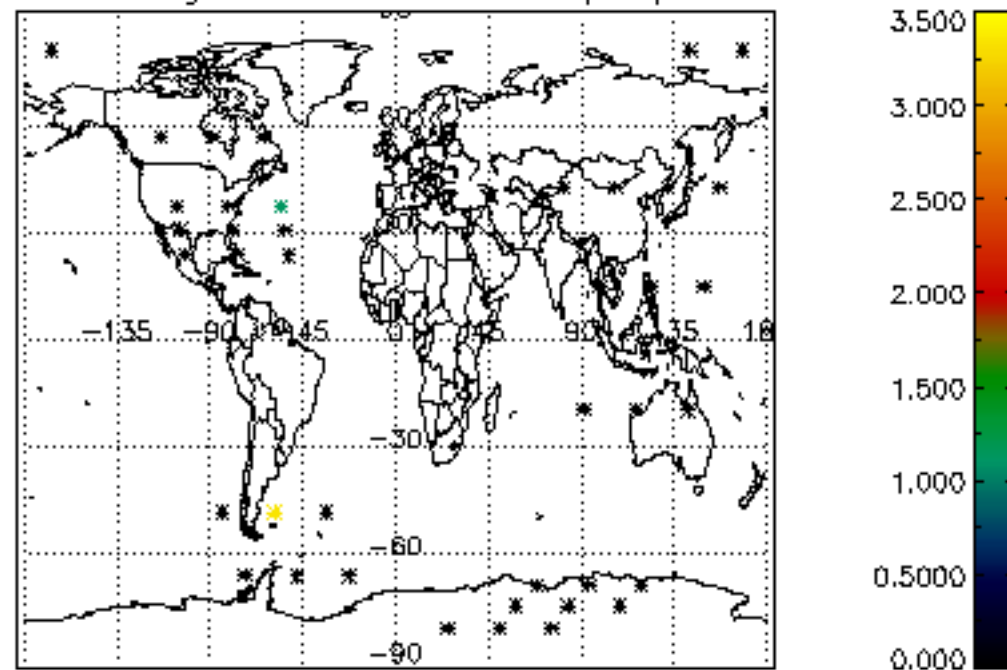
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Percentage of star falling outside central band per profile

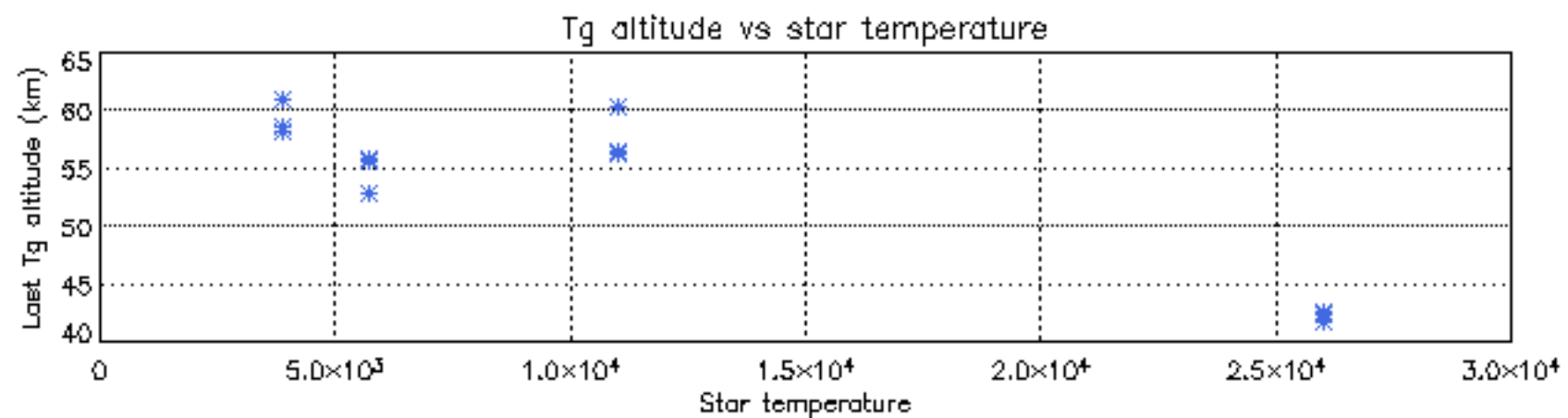
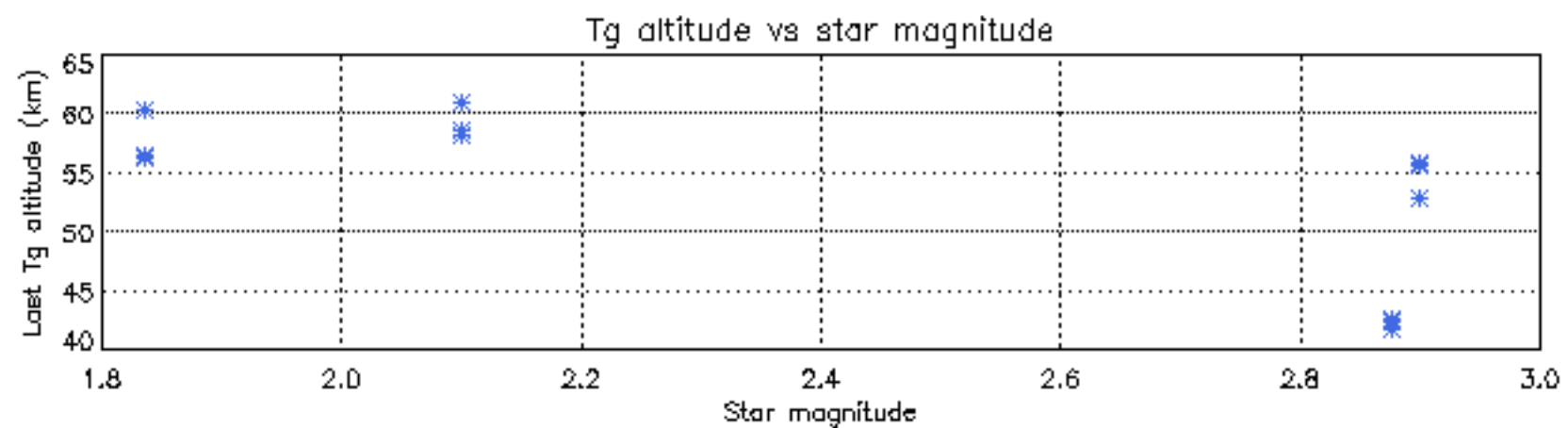
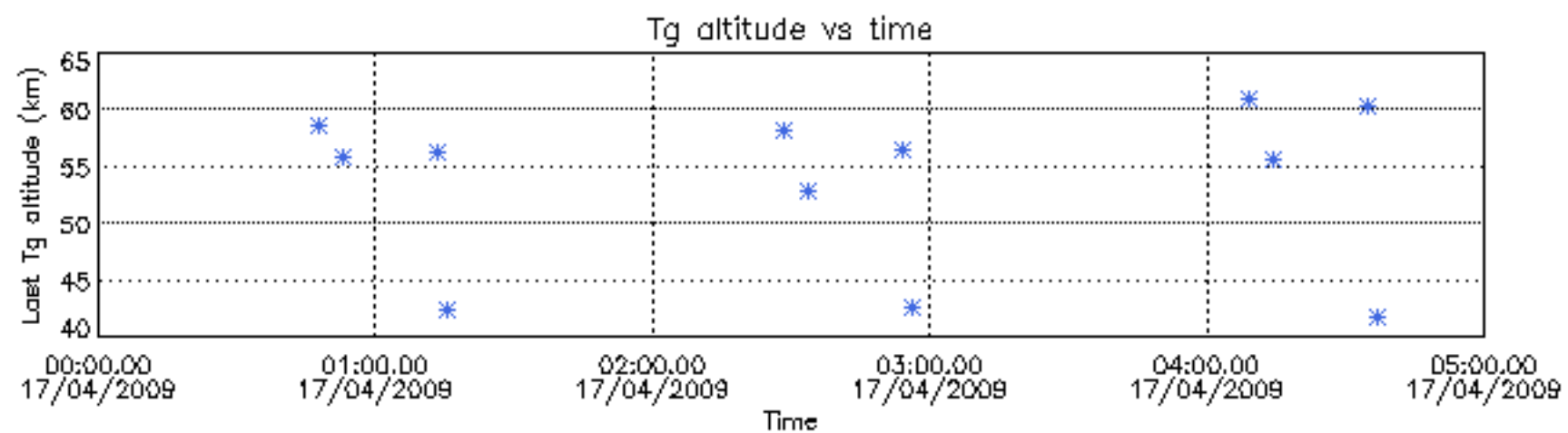


Percentage of saturation errors per profile

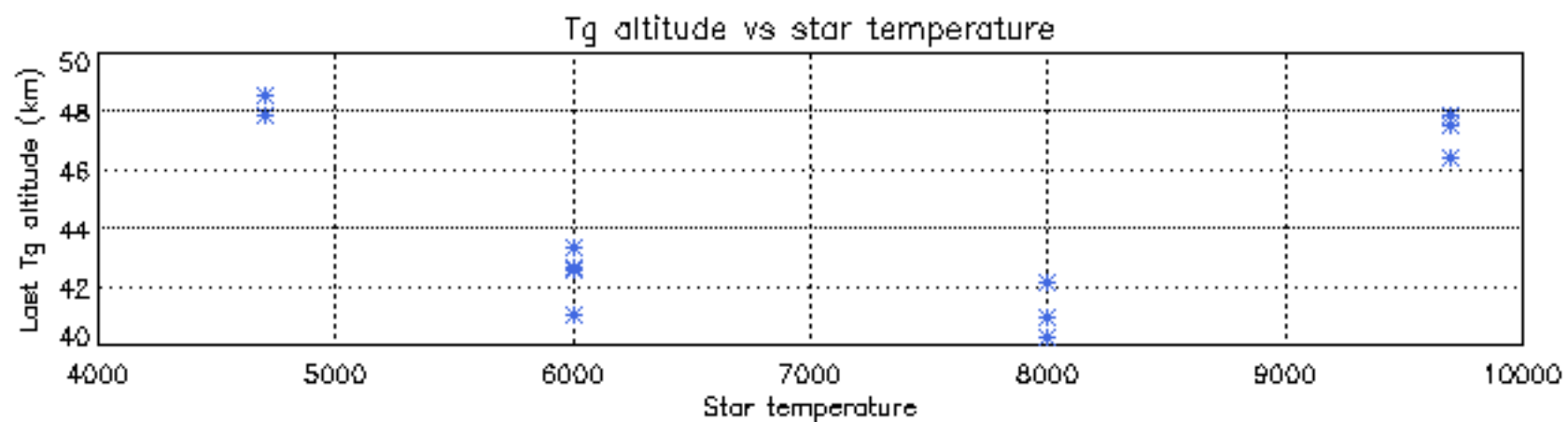
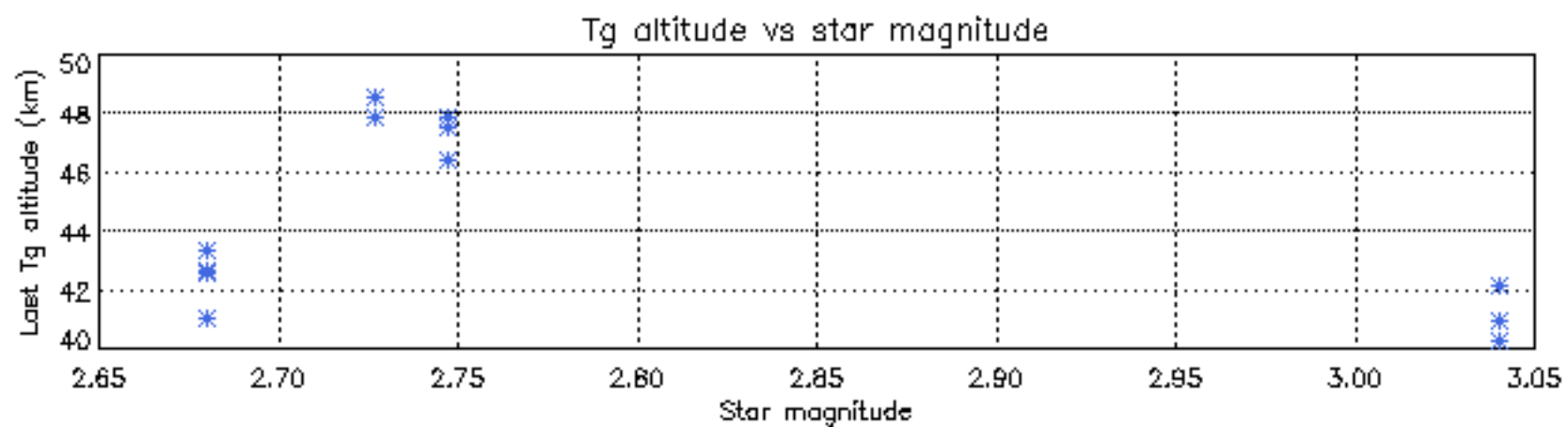
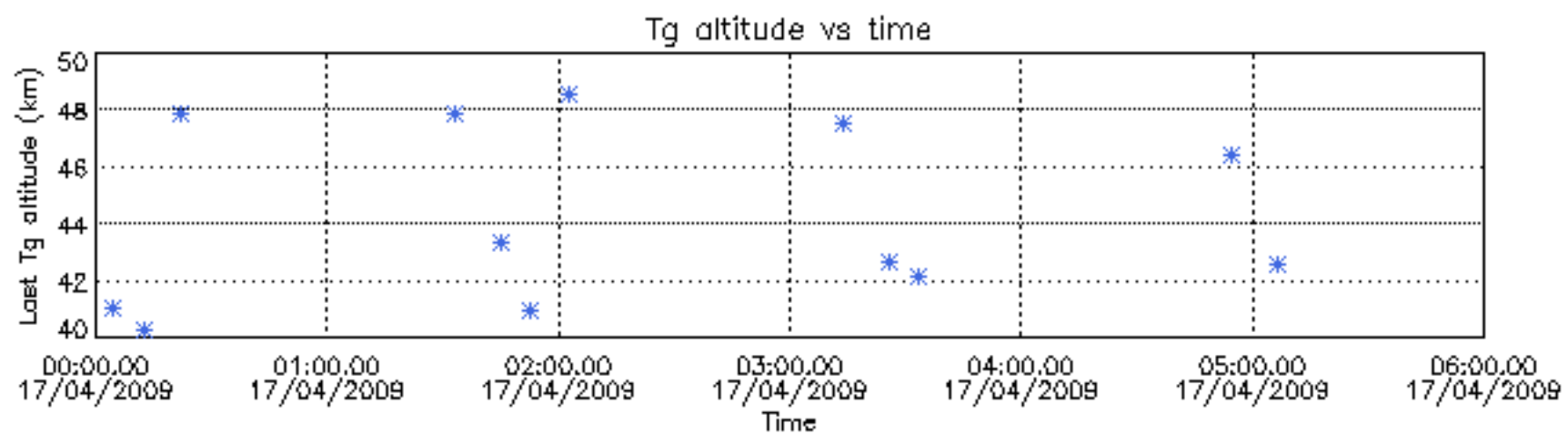


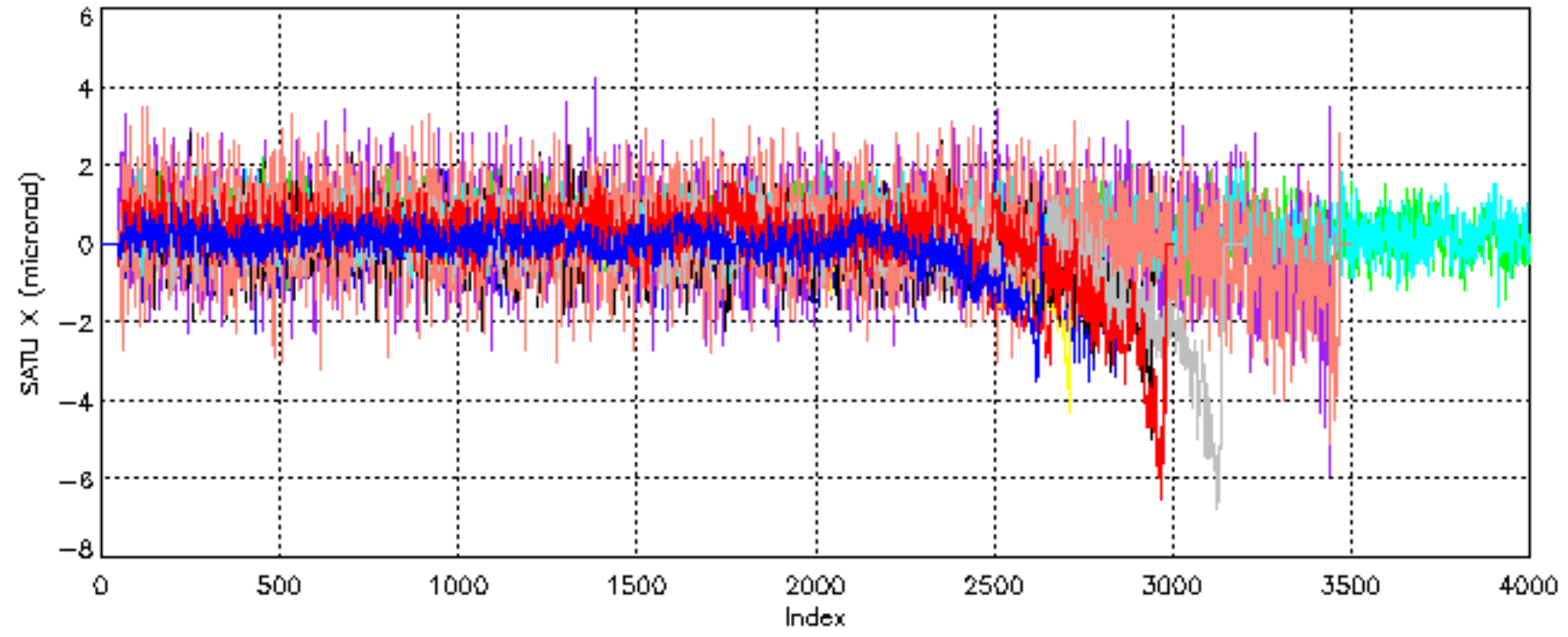


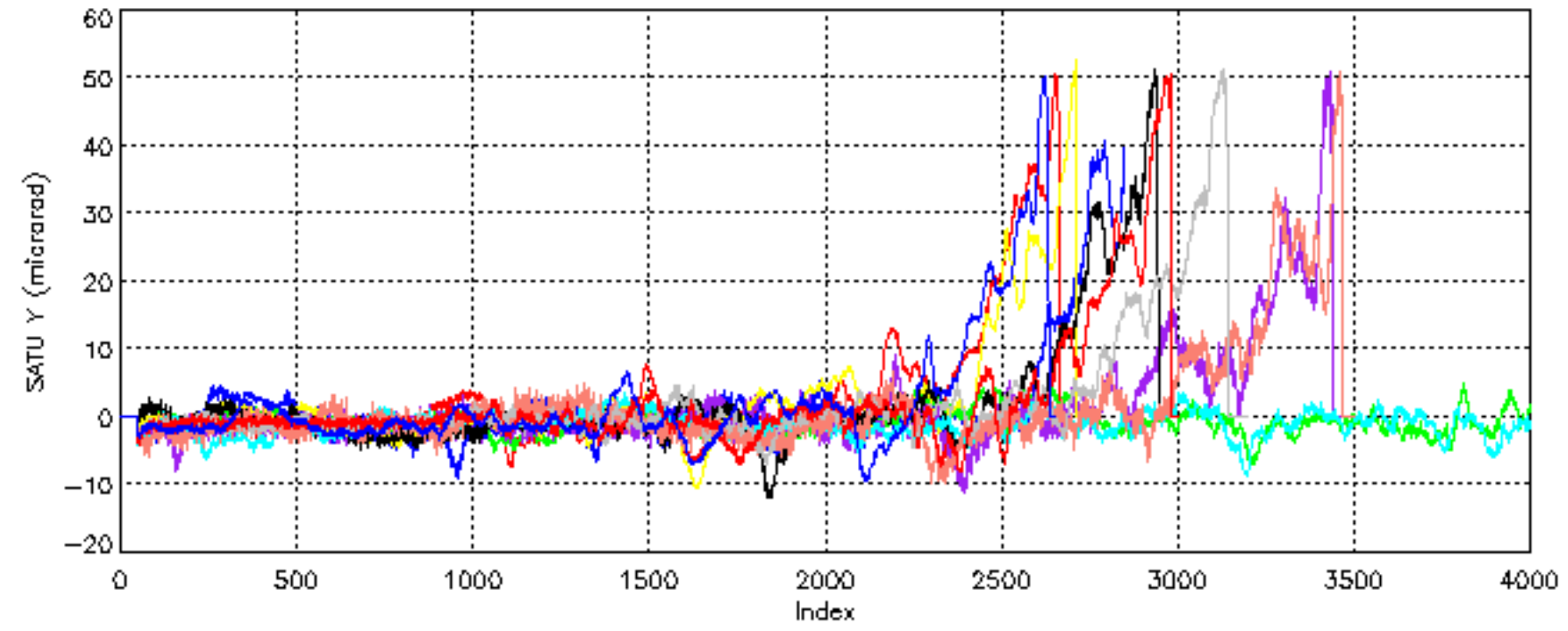
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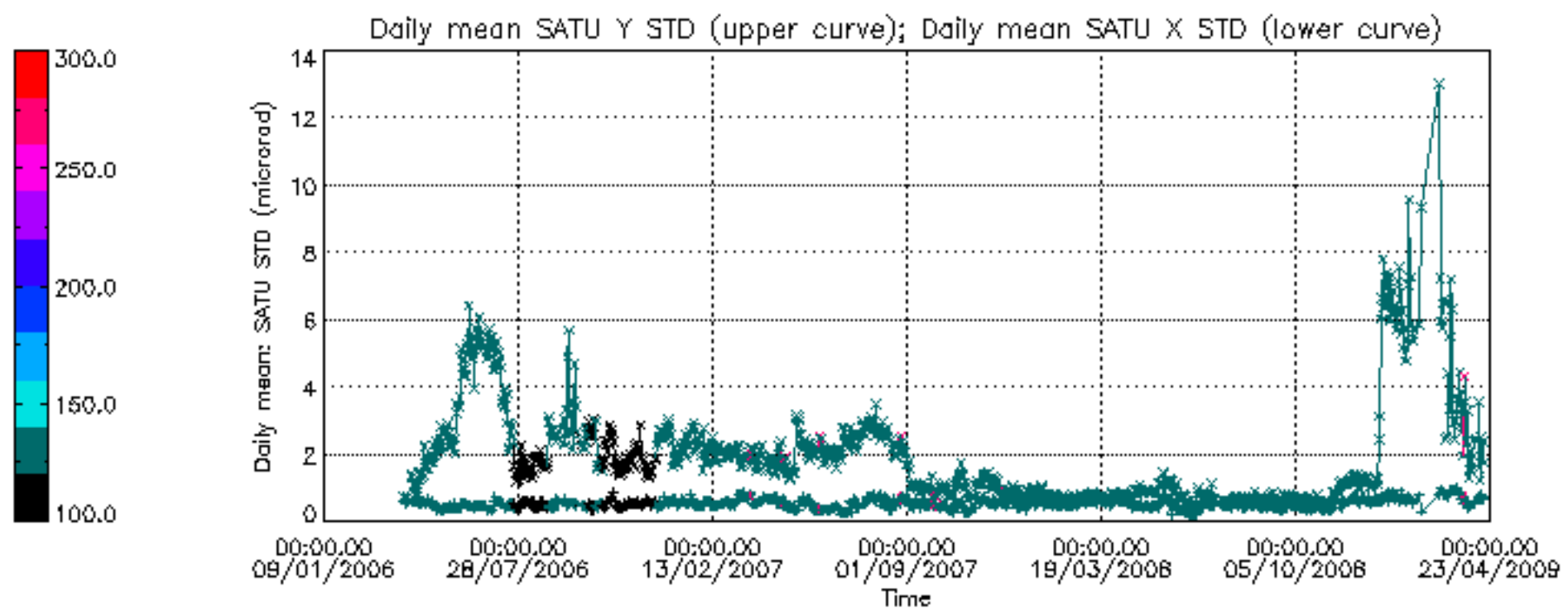
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 6; 2912.6; 07-APR-2009 20:35:44; Bright; 48.0; 39; 85Eta UMa ; 1.85; 24000;occ; 96; 0;37142  
 7; 3439.7; 07-APR-2009 20:44:31; Bright; 56.5; 119; 14Eta Dra ; 2.73; 4700;occ; 113; 0;37142  
 8; 4181.6; 07-APR-2009 20:56:53; Bright; 52.5; 144; 18Del Cyg ; 2.86; 11000;occ; 105; 0;37142  
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 9; 2628.0; 07-APR-2009 22:11:35; Bright; 38.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 77; 0;37143  
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 6; 1148.0; 07-APR-2009 23:27:31; Dark ; 50.0; 54; 5The Cen ; 2.06; 4500;occ; 100; 0;37144  
 7; 1688.2; 07-APR-2009 23:36:31; Bright; 52.5; 15; 67Alp Vir ; 0.98; 28000;occ; 105; 0;37144  
 8; 2125.0; 07-APR-2009 23:43:48; Bright; 43.5; 138; 47Eps Vir ; 2.83; 4700;occ; 87; 0;37144  
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4; 732.6; 22-APR-2009 23:49:22; Dark ; 66.0; 25; 35Lam Sco ; 1.62; 28000;occ; 132; 0;37359
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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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12; 5552.2; 30-APR-2009 14:14:23; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37467
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16; 7299.3; 30-APR-2009 14:43:30; Dark ; 34.0; 16; 21Alp Sco ; 1.02; 3000;occ; 68; 0;37467
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 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
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