

# GOMOS Daily Report 02-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	05APR2009 05:39:04
Data source version	GOMOS/5.00
Start time of products	02APR2009 00:06:52
Stop time of products	02APR2009 05:10:35
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	1

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

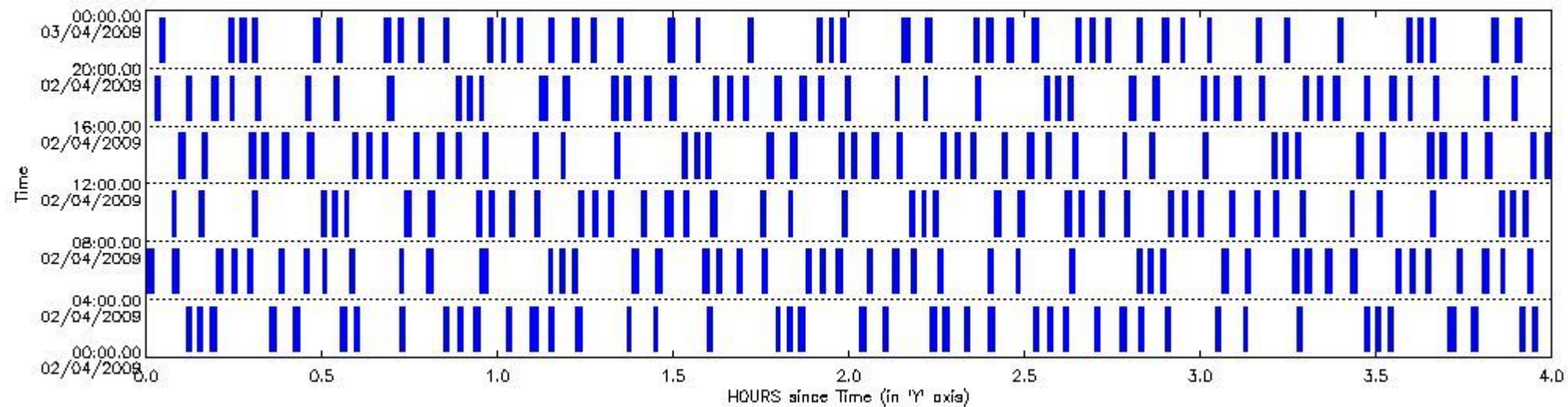
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

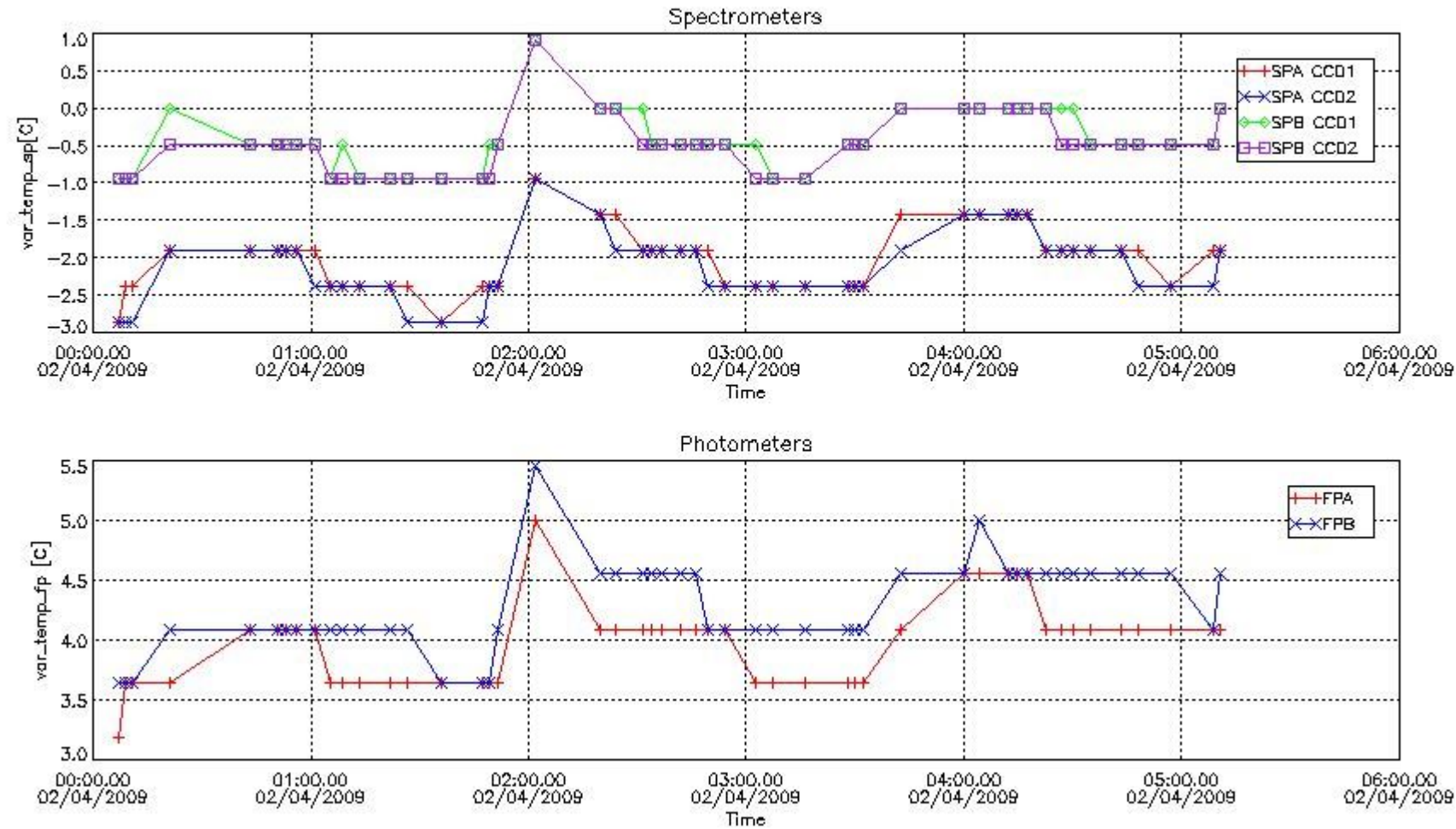
No missing products.

### 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_1PNPDE20090402_000652_000000482077_00431_37058_8142.N1	02-APR-2009 00:06:52	Bright	47.500	144	18Del Cyg	2.8600	11000.	95	37058	No
2	GOM_TRA_1PNPDE20090402_000847_000000442077_00431_37058_8143.N1	02-APR-2009 00:08:47	Bright	43.500	66	37Gam Cyg	2.2080	5900.0	87	37058	No
3	GOM_TRA_1PNPDE20090402_001050_000000612077_00431_37058_8144.N1	02-APR-2009 00:10:50	Bright	61.000	92	53Eps Cyg	2.5000	4500.0	122	37058	No
4	GOM_TRA_1PNPDE20090402_002107_000000682077_00431_37058_8145.N1	02-APR-2009 00:21:07	Dark	68.000	11	53Alp Aql	0.76500	8000.0	136	37058	No
5	GOM_TRA_1PNPDE20090402_004312_000000582077_00432_37059_8297.N1	02-APR-2009 00:43:12	Dark	57.500	25	35Lam Sco	1.6200	28000.	115	37059	No
6	GOM_TRA_1PNPDE20090402_005051_000000522077_00432_37059_8298.N1	02-APR-2009 00:50:51	Straylight	51.500	131	Gam Lup	2.8000	26000.	103	37059	No
7	GOM_TRA_1PNPDE20090402_005316_000000482077_00432_37059_8299.N1	02-APR-2009 00:53:16	Straylight	48.000	81	Eta Cen	2.3560	28000.	96	37059	No
8	GOM_TRA_1PNPDE20090402_005558_000000522077_00432_37059_8300.N1	02-APR-2009 00:55:58	Straylight	52.000	54	5The Cen	2.0550	4500.0	104	37059	No
9	GOM_TRA_1PNPDE20090402_010124_000000512077_00432_37059_8301.N1	02-APR-2009 01:01:24	Twilight_stray	51.000	169	46Gam Hya	2.9910	4700.0	102	37059	No
10	GOM_TRA_1PNPDE20090402_010538_000000702077_00432_37059_8302.N1	02-APR-2009 01:05:38	Bright	70.000	15	67Alp Vir	0.97600	28000.	140	37059	No
11	GOM_TRA_1PNPDE20090402_010852_000000452077_00432_37059_8303.N1	02-APR-2009 01:08:52	Bright	44.500	121	29Gam Vir	2.7400	7200.0	89	37059	No
12	GOM_TRA_1PNPDE20090402_011325_000000492077_00432_37059_8304.N1	02-APR-2009 01:13:25	Bright	49.000	138	47Eps Vir	2.8280	4700.0	98	37059	No

13	GOM_TRA_1PNPDE20090402_012200_000000442077_00432_37059_8305.N1	02-APR-2009 01:22:00	Bright	44.000	152	12Alp2CVn	2.8900	11000.	88	37059	No
14	GOM_TRA_1PNPDE20090402_012643_000000382077_00432_37059_8306.N1	02-APR-2009 01:26:43	Bright	38.000	32	77Eps UMa	1.7630	11000.	76	37059	No
15	GOM_TRA_1PNPDE20090402_013549_000000482077_00432_37059_8307.N1	02-APR-2009 01:35:49	Bright	48.000	119	14Eta Dra	2.7270	4700.0	96	37059	No
16	GOM_TRA_1PNPDE20090402_014727_000000462077_00432_37059_8308.N1	02-APR-2009 01:47:27	Bright	46.000	144	18Del Cyg	2.8600	11000.	92	37059	No
17	GOM_TRA_1PNPDE20090402_014923_000000492077_00432_37059_8309.N1	02-APR-2009 01:49:23	Bright	49.000	66	37Gam Cyg	2.2080	5900.0	98	37059	No
18	GOM_TRA_1PNPDE20090402_015126_000000612077_00432_37059_8310.N1	02-APR-2009 01:51:26	Bright	61.000	92	53Eps Cyg	2.5000	4500.0	122	37059	No
19	GOM_TRA_1PNPDE20090402_020144_000000662077_00432_37059_8449.N1	02-APR-2009 02:01:44	Dark	66.000	11	53Alp Aql	0.76500	8000.0	132	37059	Yes
20	GOM_TRA_1PNPDE20090402_021936_000000552077_00433_37060_8452.N1	02-APR-2009 02:19:36	Dark	55.000	38	20Eps Sgr	1.8360	11000.	110	37060	No
21	GOM_TRA_1PNPDE20090402_022349_000000592077_00433_37060_8453.N1	02-APR-2009 02:23:49	Dark	59.000	25	35Lam Sco	1.6200	28000.	118	37060	No
22	GOM_TRA_1PNPDE20090402_023128_000000532077_00433_37060_8454.N1	02-APR-2009 02:31:28	Straylight	52.500	131	Gam Lup	2.8000	26000.	105	37060	No
23	GOM_TRA_1PNPDE20090402_023353_000000472077_00433_37060_8455.N1	02-APR-2009 02:33:53	Straylight	46.500	81	Eta Cen	2.3560	28000.	93	37060	No
24	GOM_TRA_1PNPDE20090402_023635_000000512077_00433_37060_8456.N1	02-APR-2009 02:36:35	Straylight	51.000	54	5The Cen	2.0550	4500.0	102	37060	No
25	GOM_TRA_1PNPDE20090402_024200_000000492077_00433_37060_8457.N1	02-APR-2009 02:42:00	Tw_i_and_stray	48.500	169	46Gam Hya	2.9910	4700.0	97	37060	No
26	GOM_TRA_1PNPDE20090402_024614_000000672077_00433_37060_8458.N1	02-APR-2009 02:46:14	Bright	66.500	15	67Alp Vir	0.97600	28000.	133	37060	No
27	GOM_TRA_1PNPDE20090402_024928_000000442077_00433_37060_8459.N1	02-APR-2009 02:49:28	Bright	44.000	121	29Gam Vir	2.7400	7200.0	88	37060	No
28	GOM_TRA_1PNPDE20090402_025401_000000482077_00433_37060_8460.N1	02-APR-2009 02:54:01	Bright	48.000	138	47Eps Vir	2.8280	4700.0	96	37060	No
29	GOM_TRA_1PNPDE20090402_030236_000000432077_00433_37060_8461.N1	02-APR-2009 03:02:36	Bright	42.500	152	12Alp2CVn	2.8900	11000.	85	37060	No
30	GOM_TRA_1PNPDE20090402_030719_000000412077_00433_37060_8462.N1	02-APR-2009 03:07:19	Bright	40.500	32	77Eps UMa	1.7630	11000.	81	37060	No
31	GOM_TRA_1PNPDE20090402_031625_000000472077_00433_37060_8463.N1	02-APR-2009 03:16:25	Bright	47.000	119	14Eta Dra	2.7270	4700.0	94	37060	No
32	GOM_TRA_1PNPDE20090402_032803_000000472077_00433_37060_8605.N1	02-APR-2009 03:28:03	Bright	46.500	144	18Del Cyg	2.8600	11000.	93	37060	No
33	GOM_TRA_1PNPDE20090402_032959_000000462077_00433_37060_8606.N1	02-APR-2009 03:29:59	Bright	45.500	66	37Gam Cyg	2.2080	5900.0	91	37060	No
34	GOM_TRA_1PNPDE20090402_033202_000000442077_00433_37060_8607.N1	02-APR-2009 03:32:02	Bright	44.000	92	53Eps Cyg	2.5000	4500.0	88	37060	No
35	GOM_TRA_1PNPDE20090402_034221_000000692077_00433_37060_8608.N1	02-APR-2009 03:42:21	Dark	69.000	11	53Alp Aql	0.76500	8000.0	138	37060	No
36	GOM_TRA_1PNPDE20090402_040013_000000572077_00434_37061_8611.N1	02-APR-2009 04:00:13	Dark	56.500	38	20Eps Sgr	1.8360	11000.	113	37061	No
37	GOM_TRA_1PNPDE20090402_040427_000000652077_00434_37061_8612.N1	02-APR-2009 04:04:27	Dark	64.500	25	35Lam Sco	1.6200	28000.	129	37061	No
38	GOM_TRA_1PNPDE20090402_041204_000000502077_00434_37061_8613.N1	02-APR-2009 04:12:04	Straylight	50.000	131	Gam Lup	2.8000	26000.	100	37061	No
39	GOM_TRA_1PNPDE20090402_041429_000000502077_00434_37061_8614.N1	02-APR-2009 04:14:29	Straylight	50.000	81	Eta Cen	2.3560	28000.	100	37061	No
40	GOM_TRA_1PNPDE20090402_041711_000000482077_00434_37061_8615.N1	02-APR-2009 04:17:11	Straylight	48.000	54	5The Cen	2.0550	4500.0	96	37061	No
41	GOM_TRA_1PNPDE20090402_042236_000000492077_00434_37061_8616.N1	02-APR-2009 04:22:36	Tw_i_and_stray	49.000	169	46Gam Hya	2.9910	4700.0	98	37061	No
42	GOM_TRA_1PNPDE20090402_042650_000000612077_00434_37061_8617.N1	02-APR-2009 04:26:50	Bright	60.500	15	67Alp Vir	0.97600	28000.	121	37061	No
43	GOM_TRA_1PNPDE20090402_043004_000000432077_00434_37061_8618.N1	02-APR-2009 04:30:04	Bright	43.000	121	29Gam Vir	2.7400	7200.0	86	37061	No
44	GOM_TRA_1PNPDE20090402_043436_000000582077_00434_37061_8619.N1	02-APR-2009 04:34:36	Bright	58.000	138	47Eps Vir	2.8280	4700.0	116	37061	No
45	GOM_TRA_1PNPDE20090402_044311_000000422077_00434_37061_8620.N1	02-APR-2009 04:43:11	Bright	42.000	152	12Alp2CVn	2.8900	11000.	84	37061	No
46	GOM_TRA_1PNPDE20090402_044754_000000592077_00434_37061_8621.N1	02-APR-2009 04:47:54	Bright	59.000	32	77Eps UMa	1.7630	11000.	118	37061	No
47	GOM_TRA_1PNPDE20090402_045700_000000712077_00434_37061_8622.N1	02-APR-2009 04:57:00	Bright	70.500	119	14Eta Dra	2.7270	4700.0	141	37061	No
48	GOM_TRA_1PNPDE20090402_050839_000000452077_00434_37061_8788.N1	02-APR-2009 05:08:39	Bright	45.000	144	18Del Cyg	2.8600	11000.	90	37061	No
49	GOM_TRA_1PNPDE20090402_051035_000000442077_00434_37061_8789.N1	02-APR-2009 05:10:35	Bright	44.000	66	37Gam Cyg	2.2080	5900.0	88	37061	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).

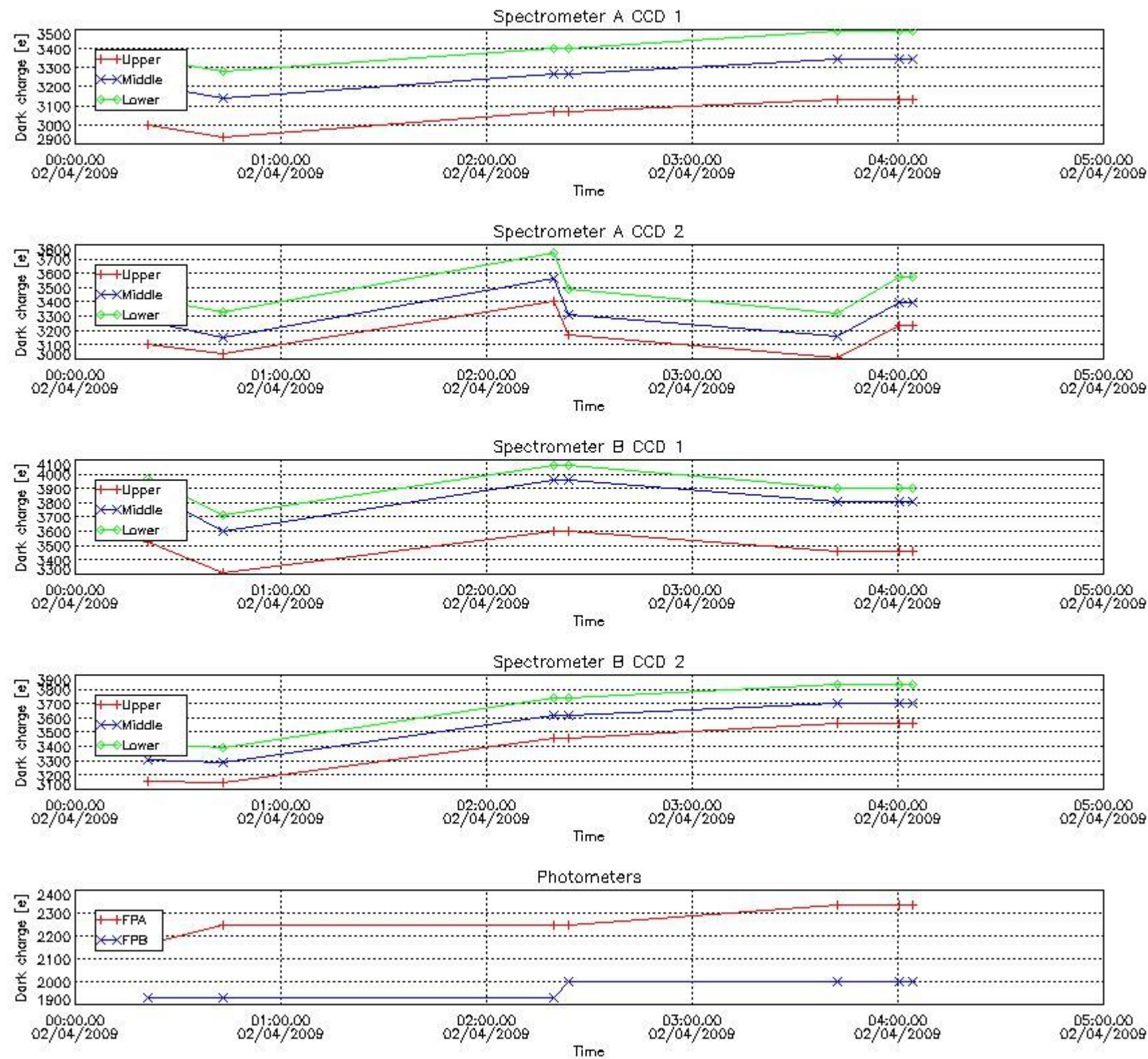
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20090402_004312_000000582077_00432_37059_8297.N1	DC map used
GOM_TRA_1PNPDE20090402_005051_000000522077_00432_37059_8298.N1	DC map used
GOM_TRA_1PNPDE20090402_005316_000000482077_00432_37059_8299.N1	DC map used
GOM_TRA_1PNPDE20090402_005558_000000522077_00432_37059_8300.N1	DC map used
GOM_TRA_1PNPDE20090402_010124_000000512077_00432_37059_8301.N1	DC map used
GOM_TRA_1PNPDE20090402_010538_000000702077_00432_37059_8302.N1	DC map used
GOM_TRA_1PNPDE20090402_010852_000000452077_00432_37059_8303.N1	DC map used
GOM_TRA_1PNPDE20090402_011325_000000492077_00432_37059_8304.N1	DC map used
GOM_TRA_1PNPDE20090402_012200_000000442077_00432_37059_8305.N1	DC map used
GOM_TRA_1PNPDE20090402_012643_000000382077_00432_37059_8306.N1	DC map used
GOM_TRA_1PNPDE20090402_013549_000000482077_00432_37059_8307.N1	DC map used
GOM_TRA_1PNPDE20090402_014727_000000462077_00432_37059_8308.N1	DC map used
GOM_TRA_1PNPDE20090402_014923_000000492077_00432_37059_8309.N1	DC map used
GOM_TRA_1PNPDE20090402_015126_000000612077_00432_37059_8310.N1	DC map used



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



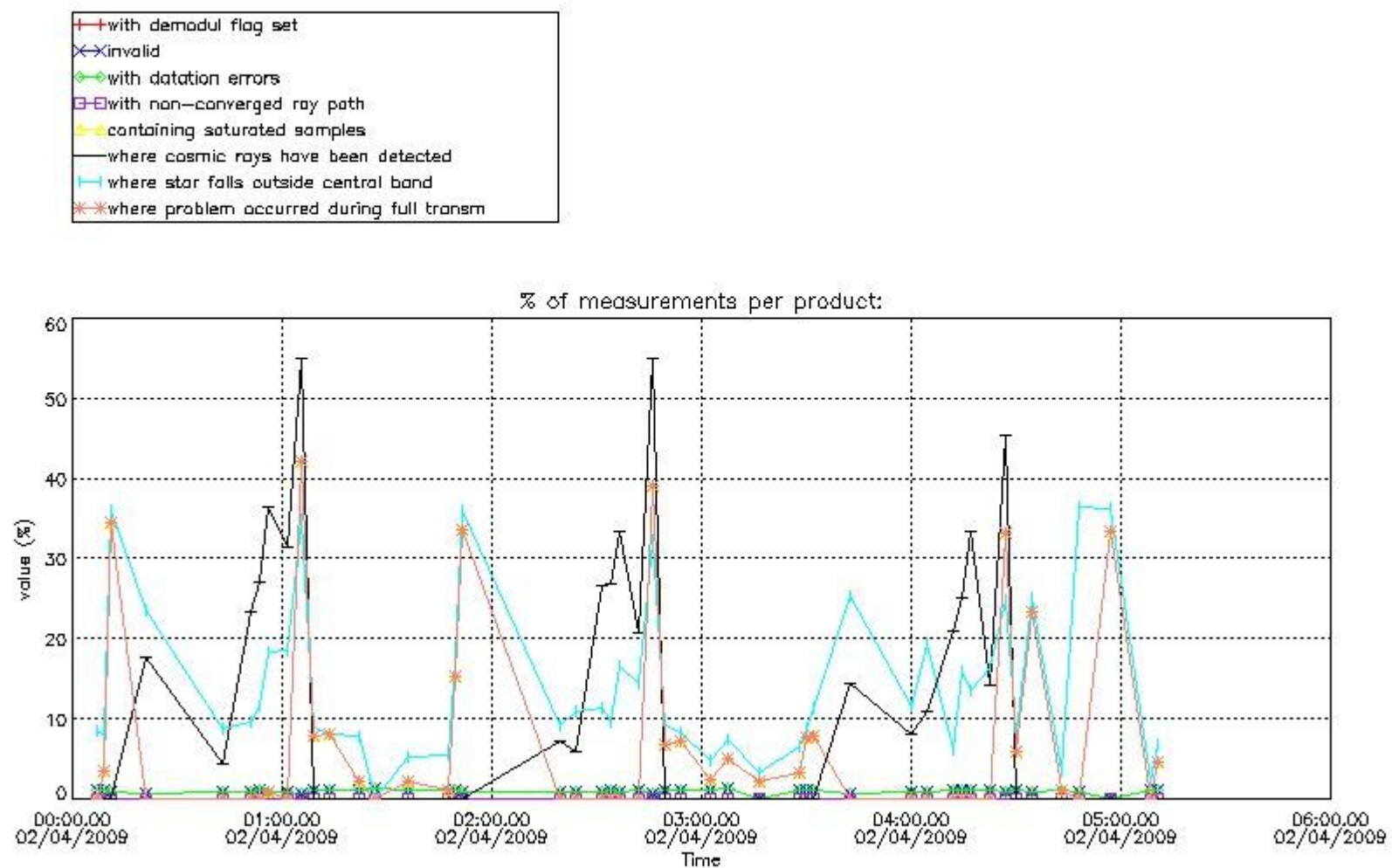
#### 5. Demodulation flag and quality information monitoring

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:

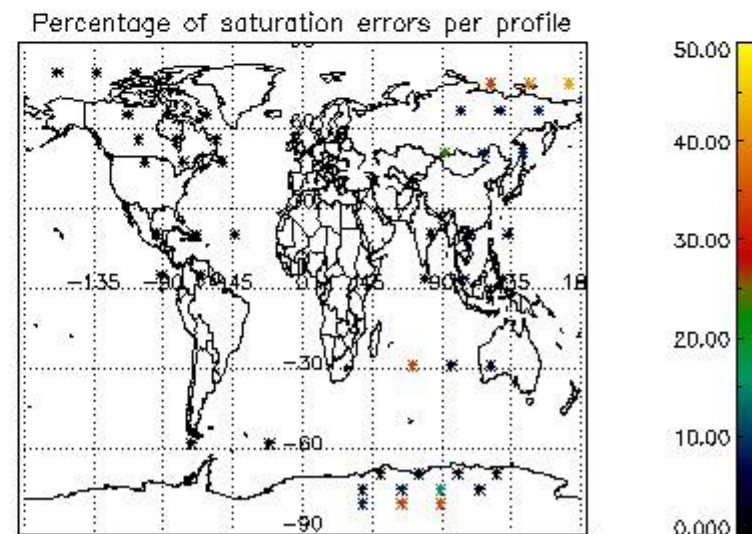
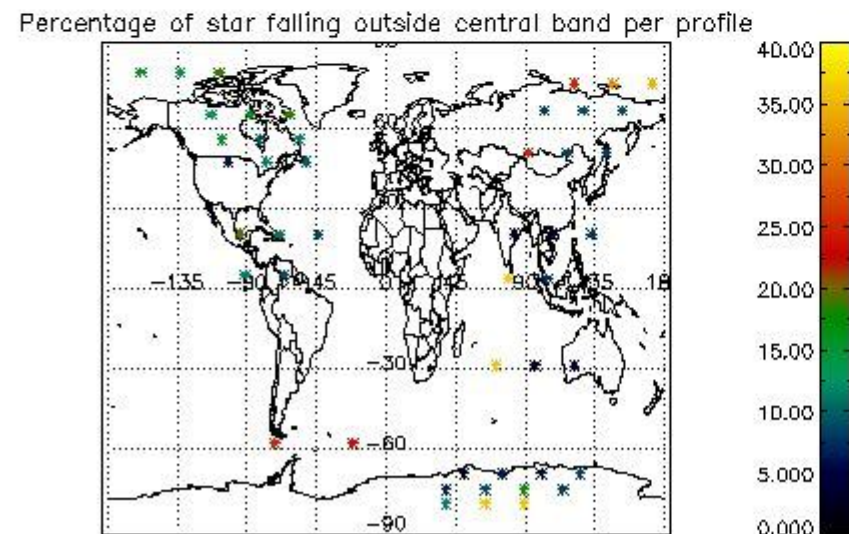
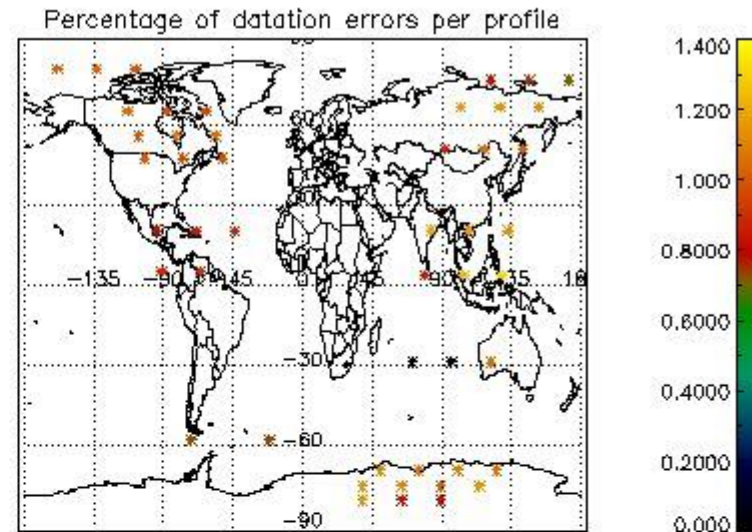
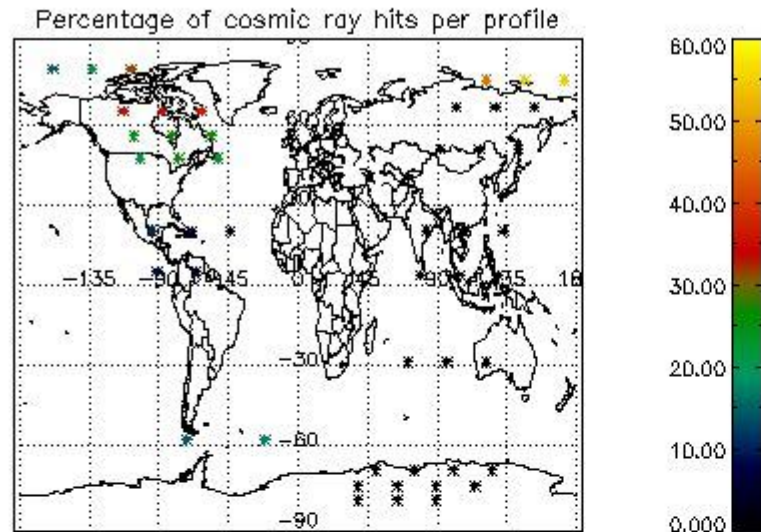
At least one measurement with demodulation flag set:	6.25000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





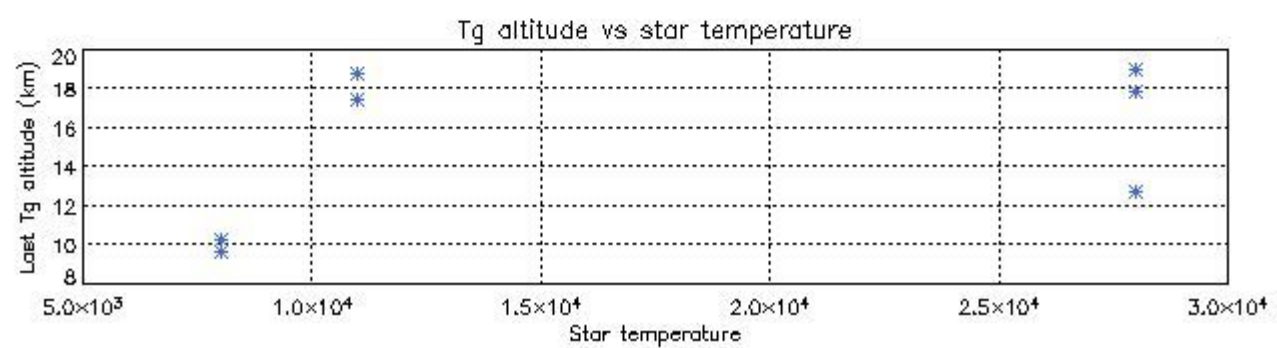
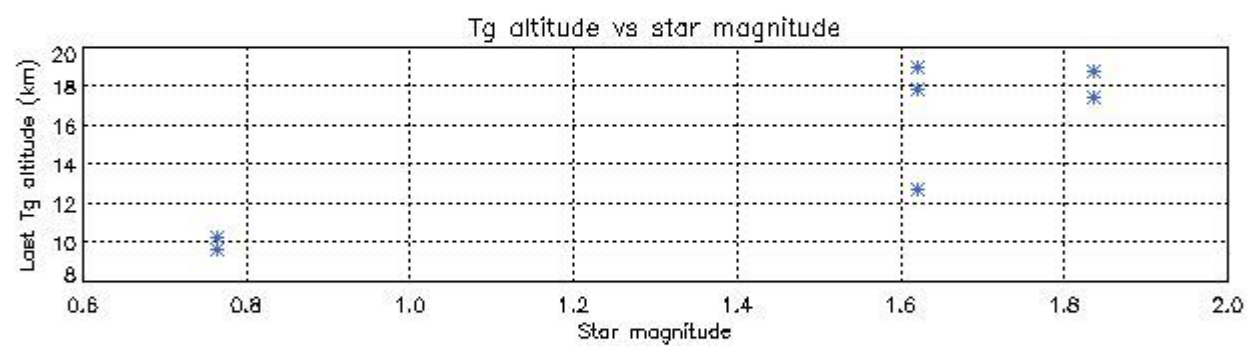
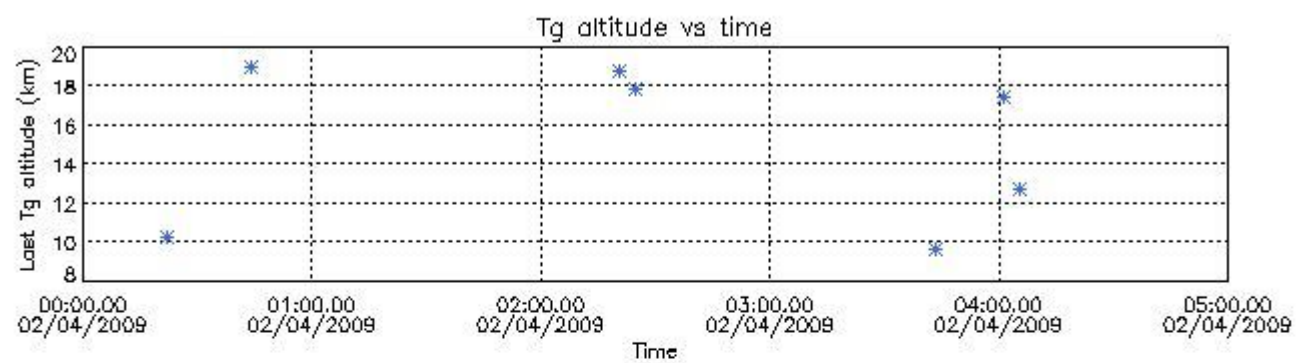
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.077	16.189	NaN
St. deviation:	4.0822	7.1779	NaN
Maximum:	18.978	26.092	NaN
Minimum:	9.6380	3.2838	NaN
Number of data:	7.0000	29.000	NaN

### 6.2 Plot for DARK limb products

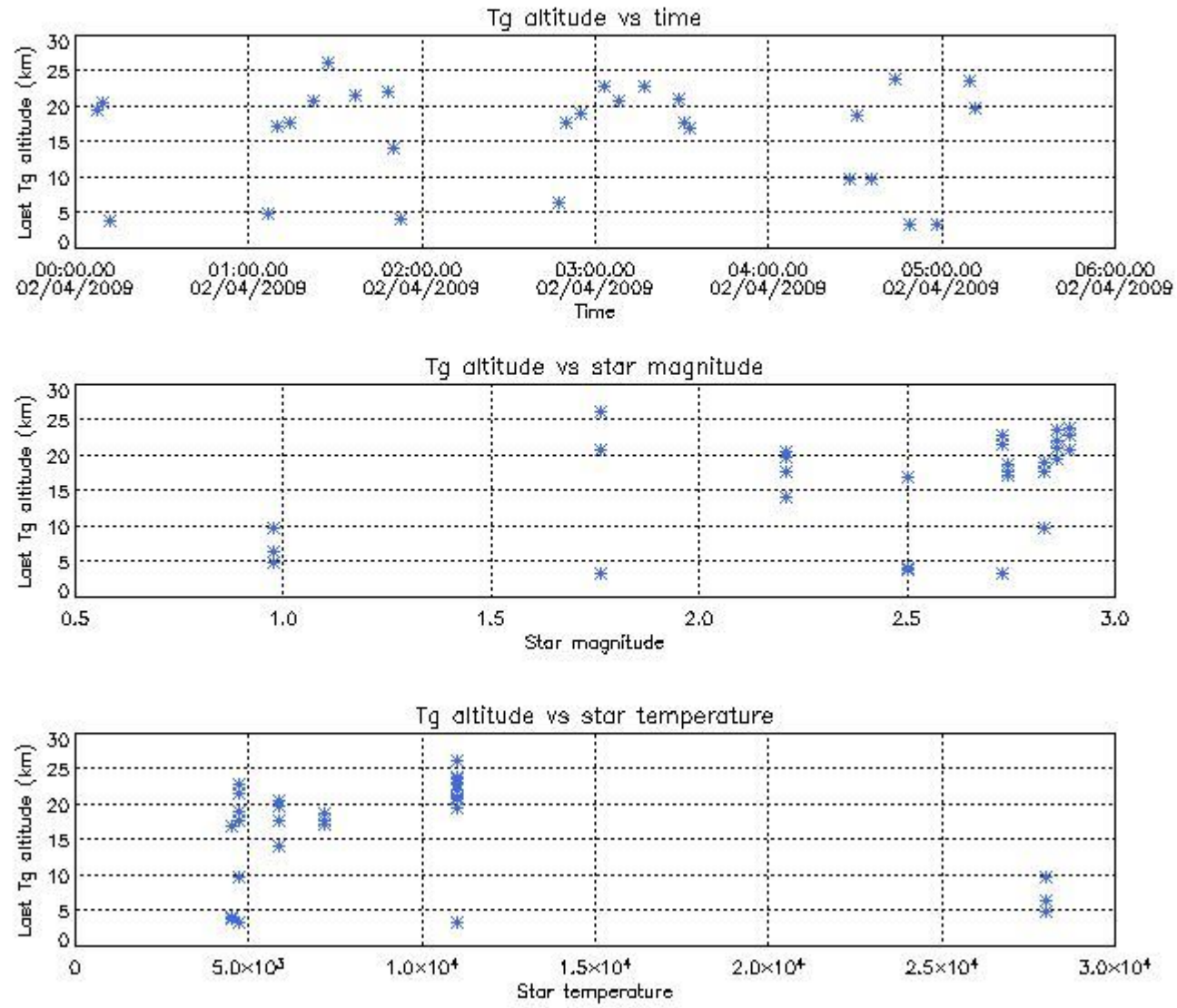
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

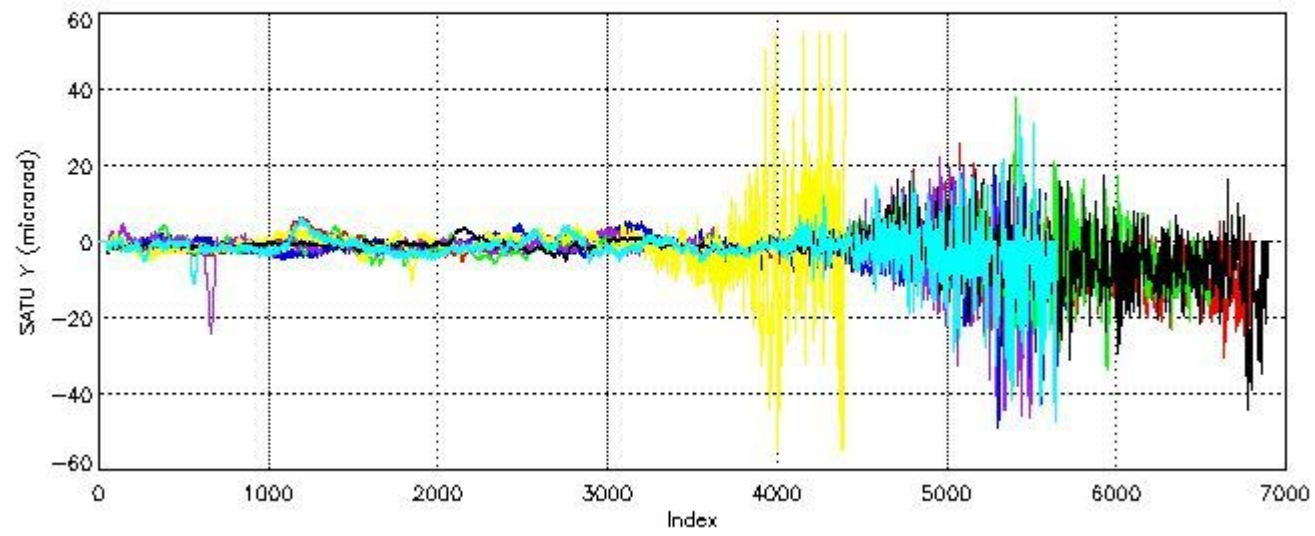
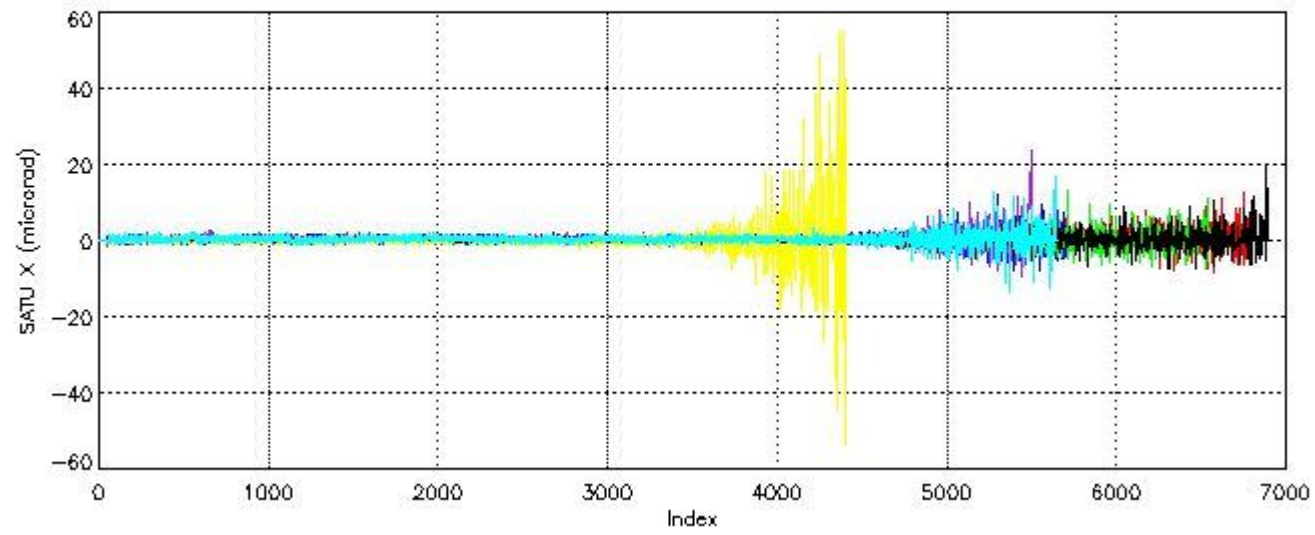


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.32364	-1.0941	0.28081	-1.1065
St. deviation:	0.44797	2.1087	0.85602	1.6762
Maximum:	2.6000	6.3000	6.9000	7.8000
Minimum:	-1.5000	-24.400	-5.7000	-22.100

Number of data:	9450.0	9450.0	30000.	30000.
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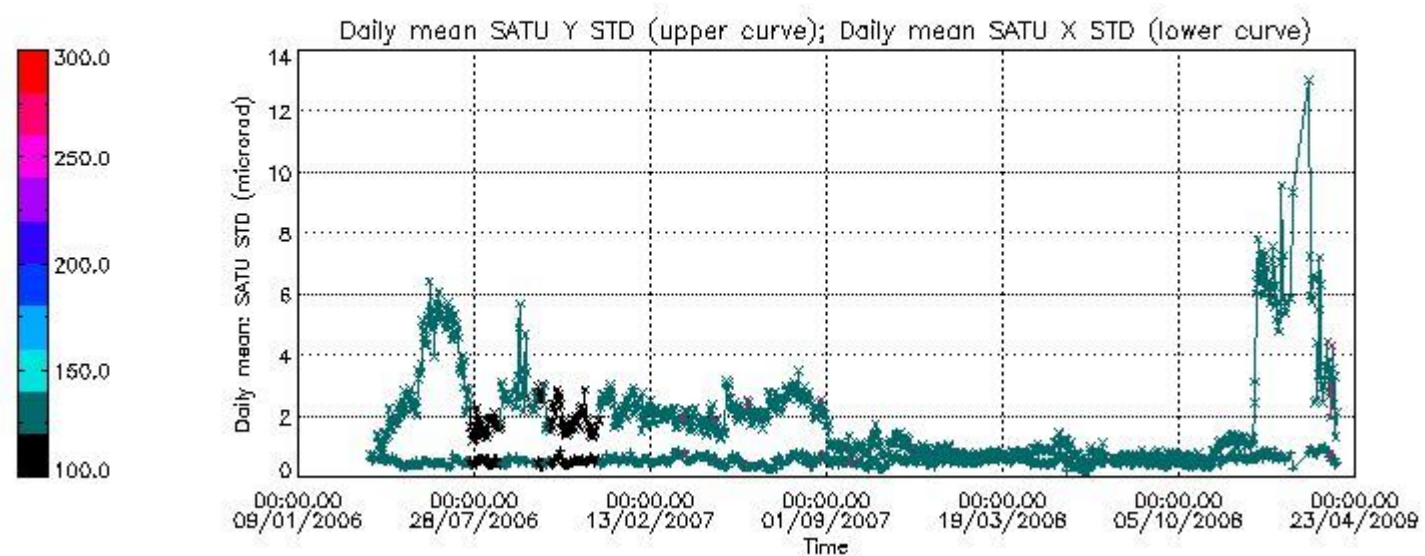
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

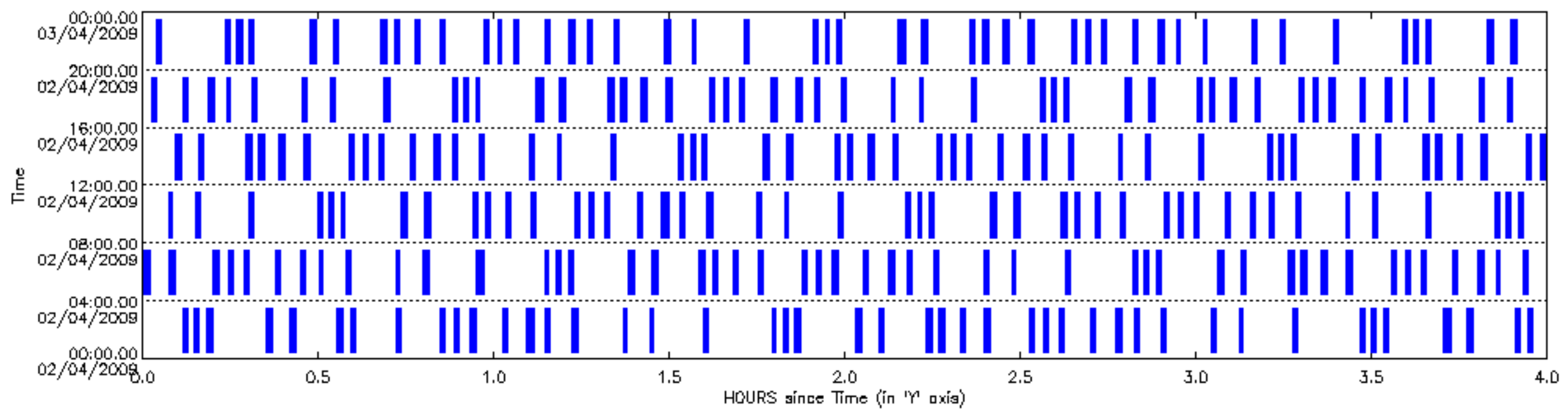


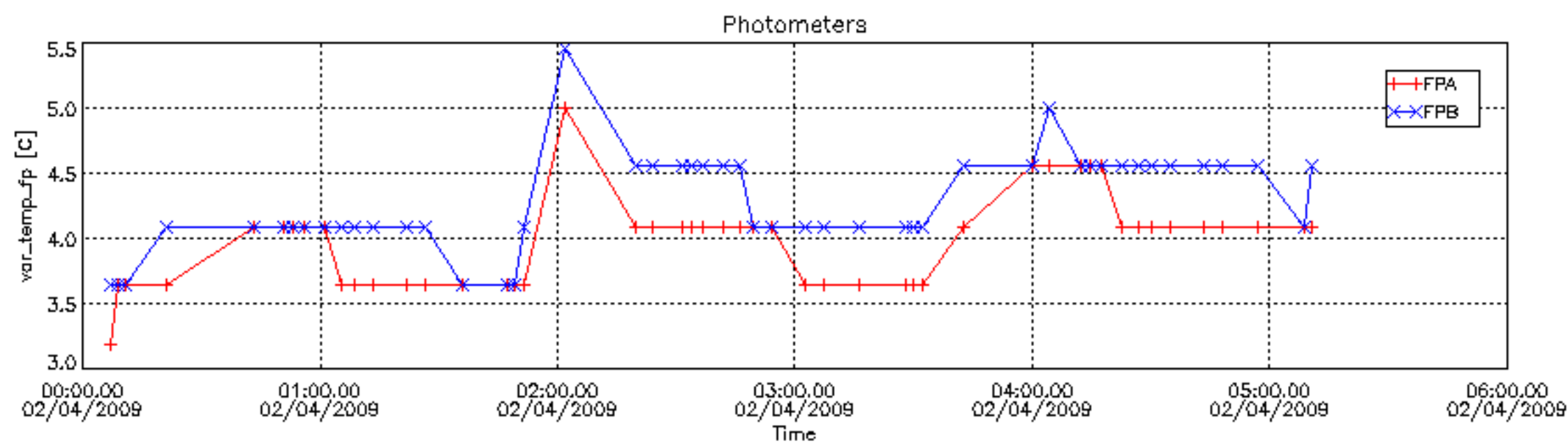
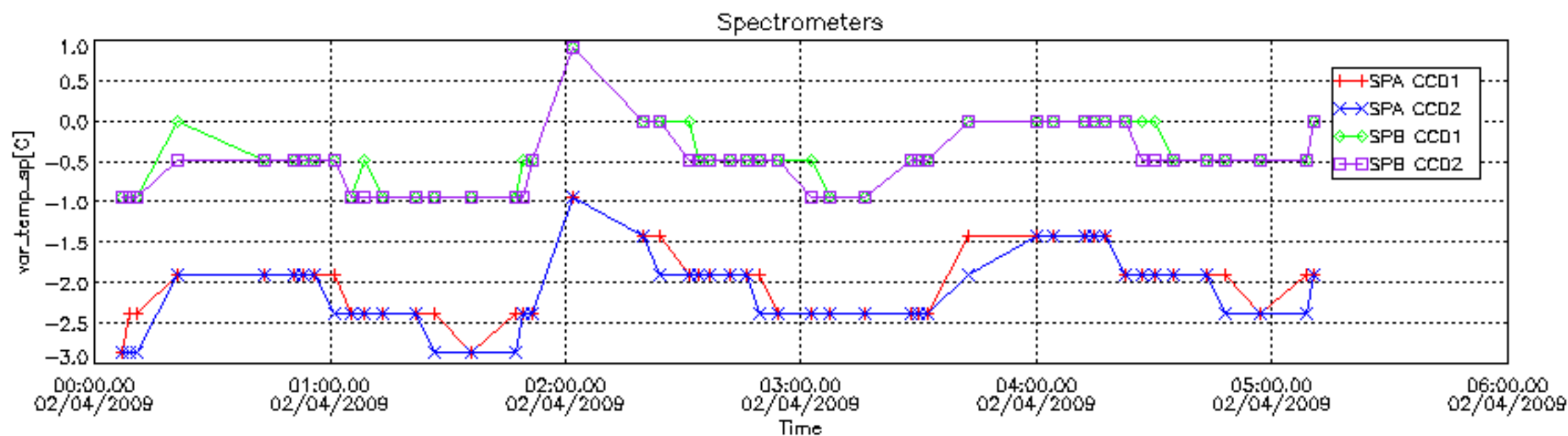
### 8. Auxiliary Data Files used for the production reported in section 2.4

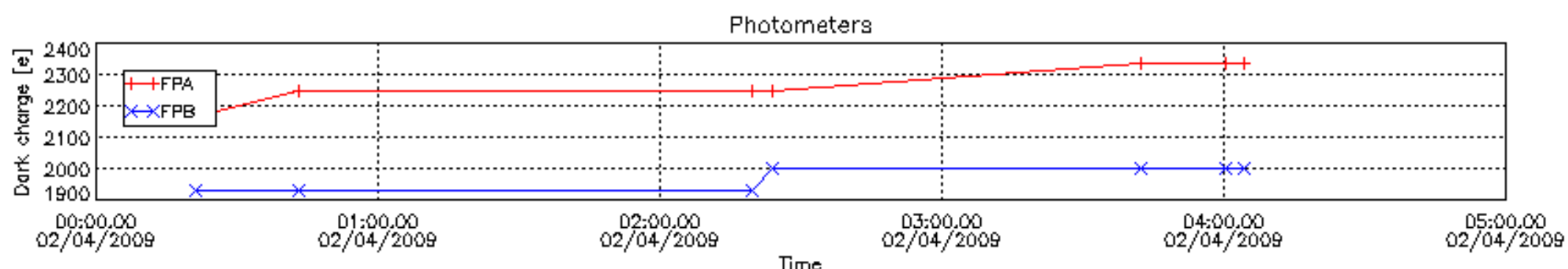
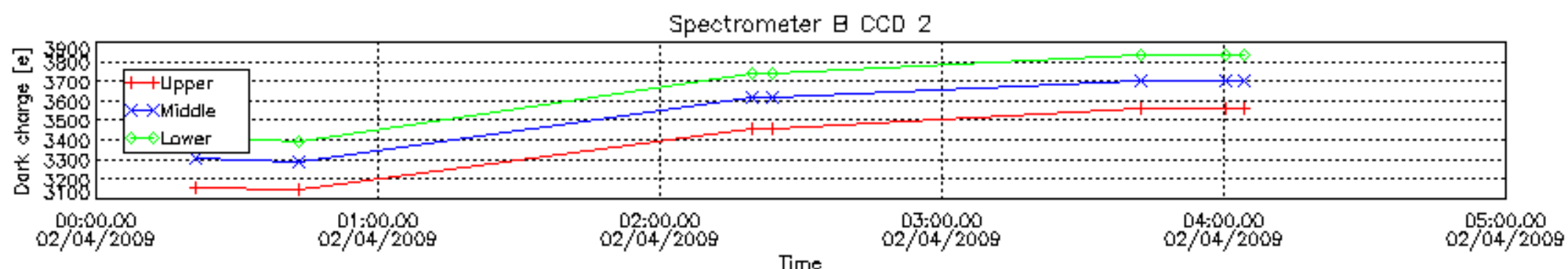
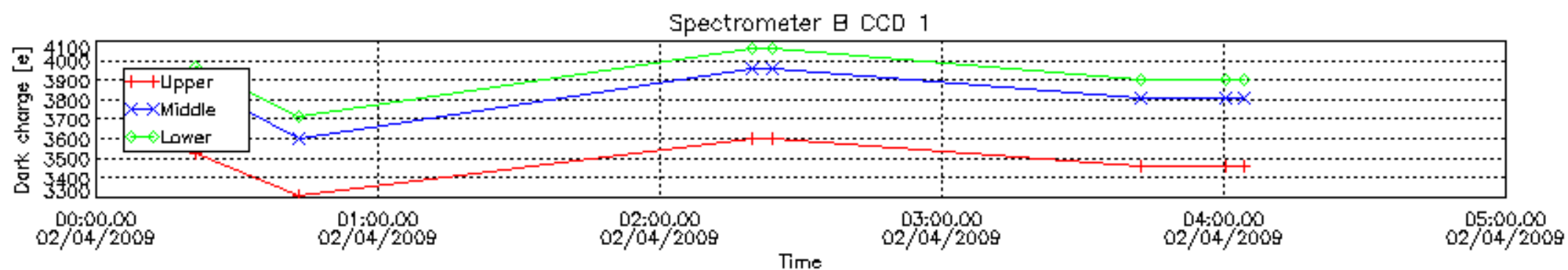
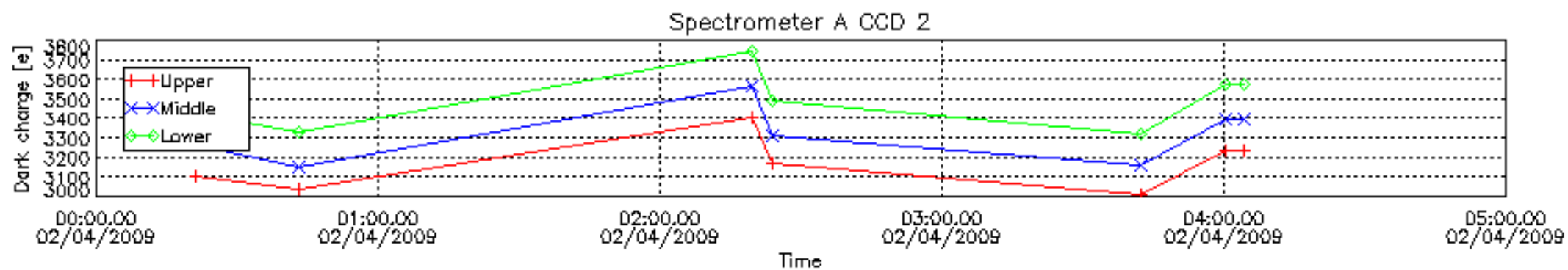
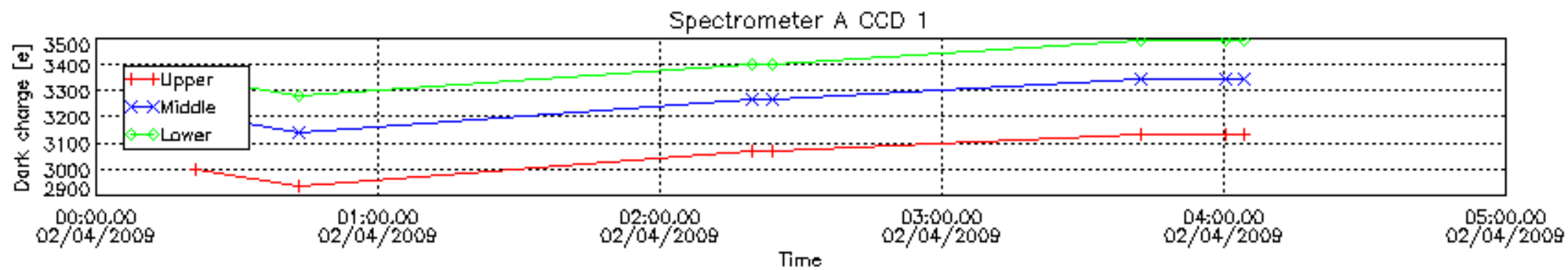
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	02-APR-2009 00:06:52
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090323_082818_20090321_000000_20100101_000000	1	02-APR-2009 00:06:52
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	02-APR-2009 00:06:52
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	02-APR-2009 00:06:52
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	02-APR-2009 00:06:52
ECMWF_FILE	AUX_ECF_AXNECM20090401_064111_20090401_210000_20090402_090000	1	02-APR-2009 00:06:52
ECMWF_FILE	AUX_ECF_AXNECM20090401_184112_20090402_030000_20090402_150000	32	02-APR-2009 03:28:03
OPTIONAL_ECMWF_FILE	MISSING	1	02-APR-2009 00:06:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090401_205815_000060572077_00429_37056_7669.N1	1	02-APR-2009 00:06:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090401_224431_000057382077_00430_37057_7670.N1	5	02-APR-2009 00:43:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090402_020106_000044632077_00432_37059_7672.N1	19	02-APR-2009 02:01:44
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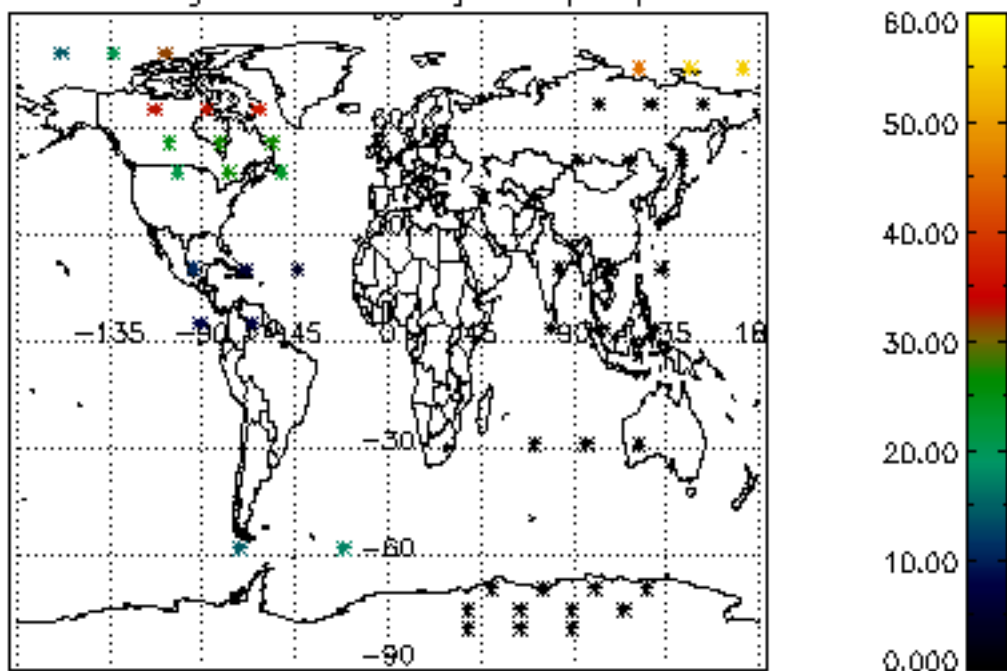




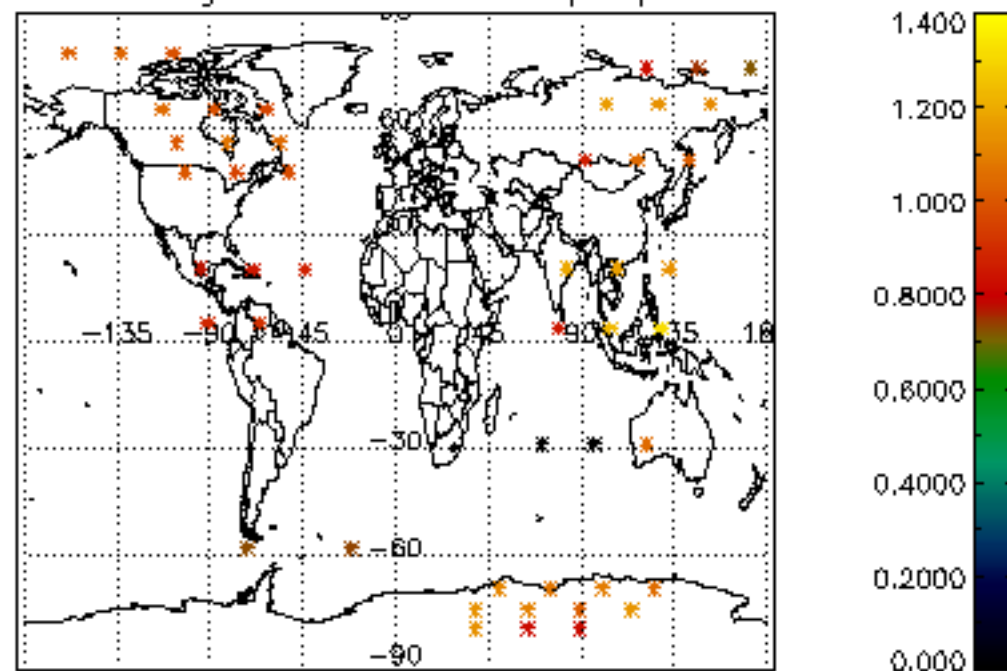




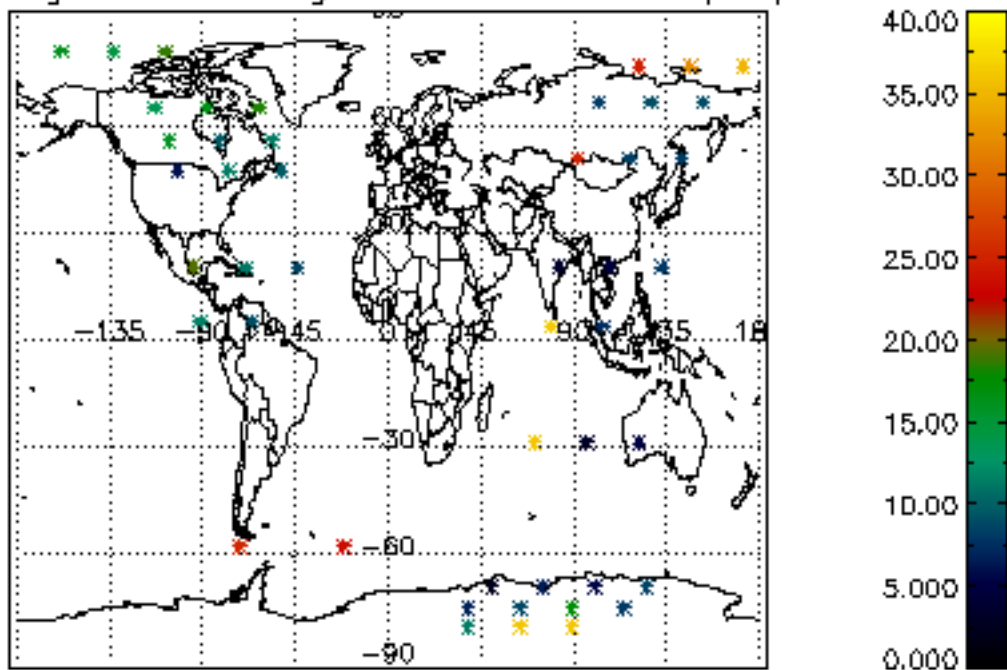
Percentage of cosmic ray hits per profile



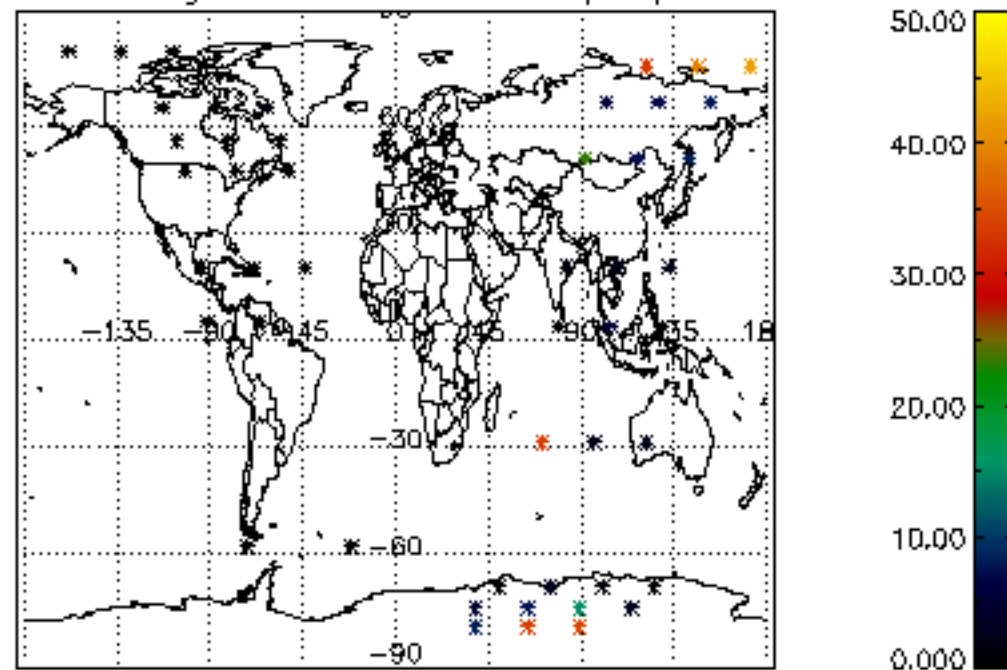
Percentage of datation errors per profile



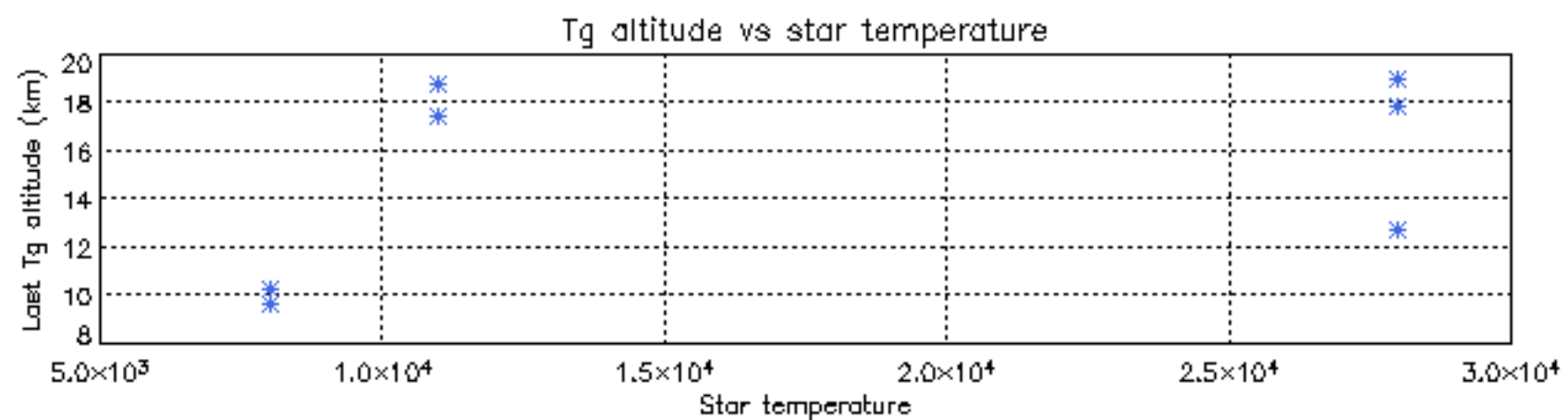
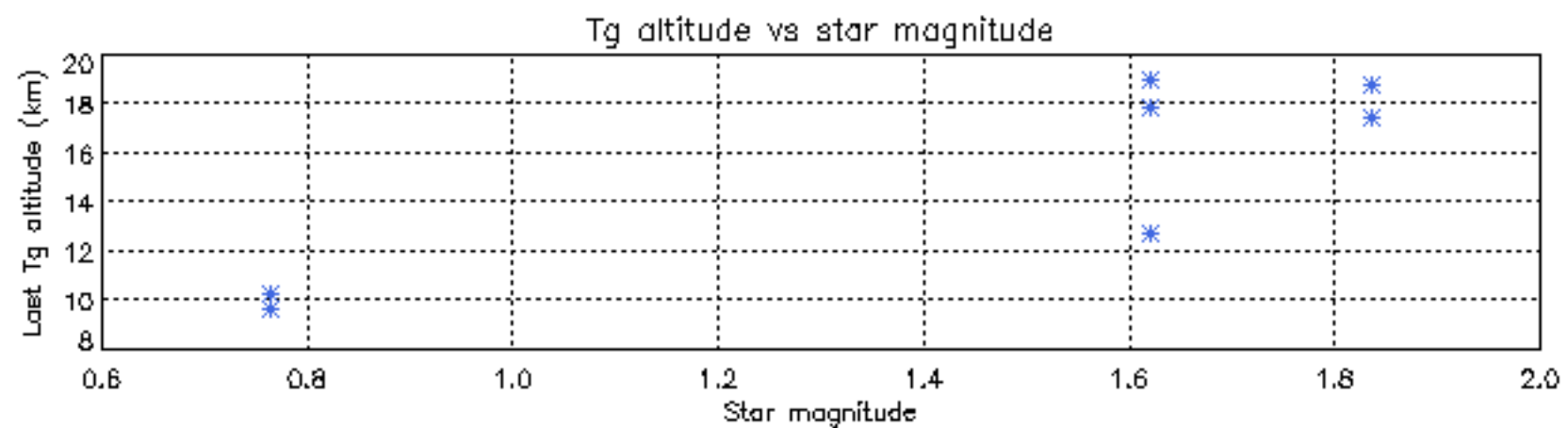
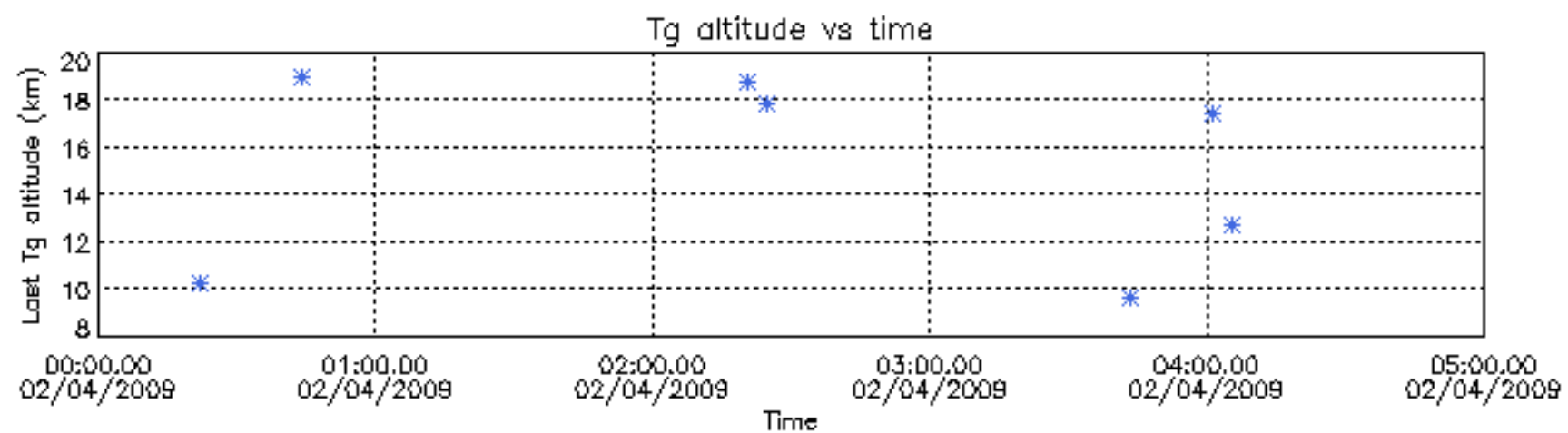
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

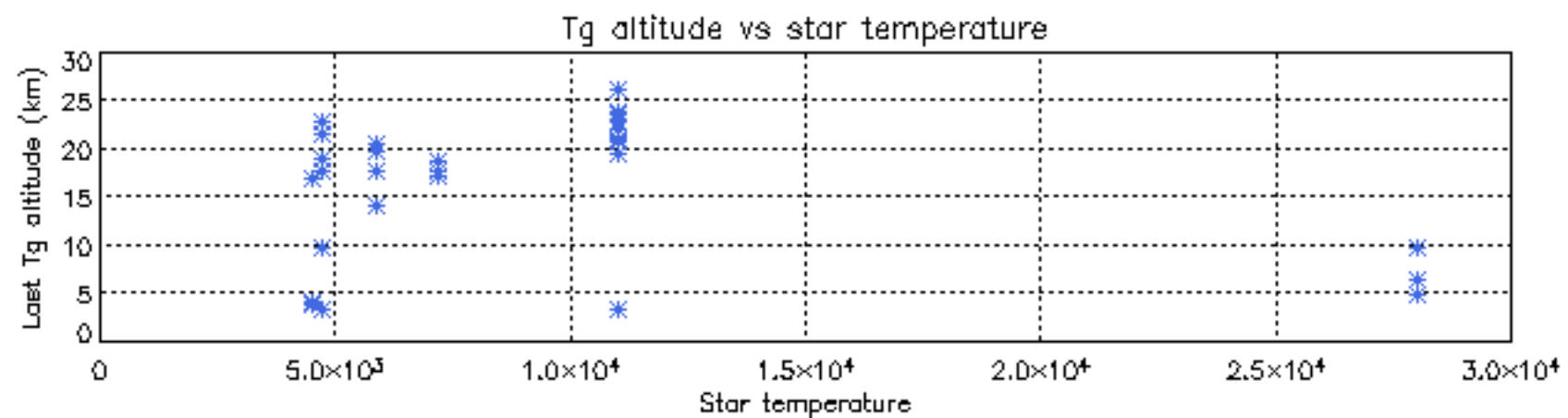
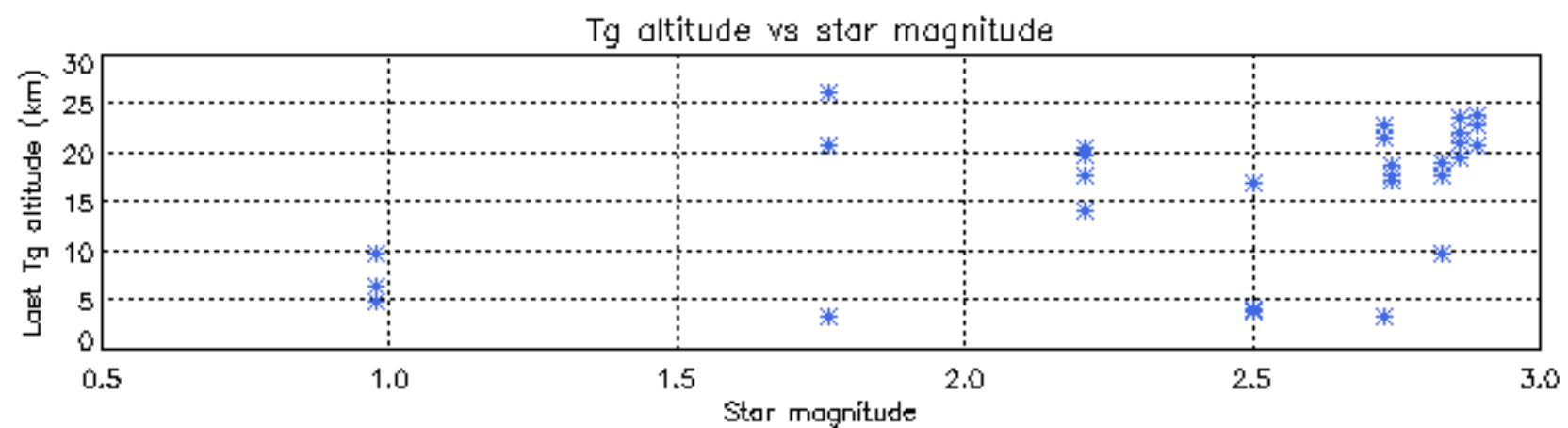
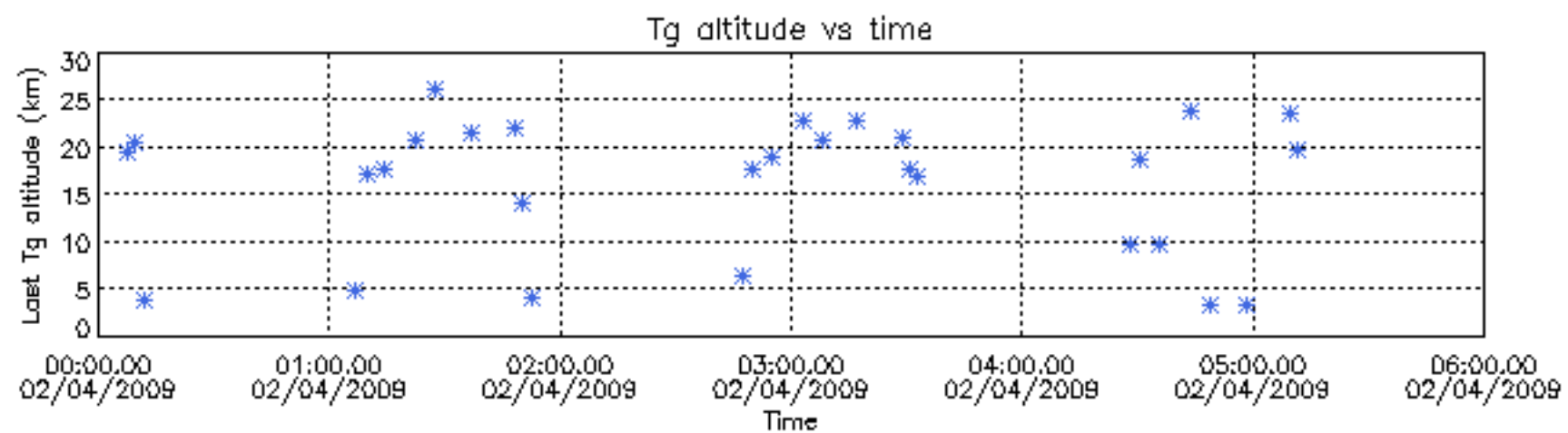


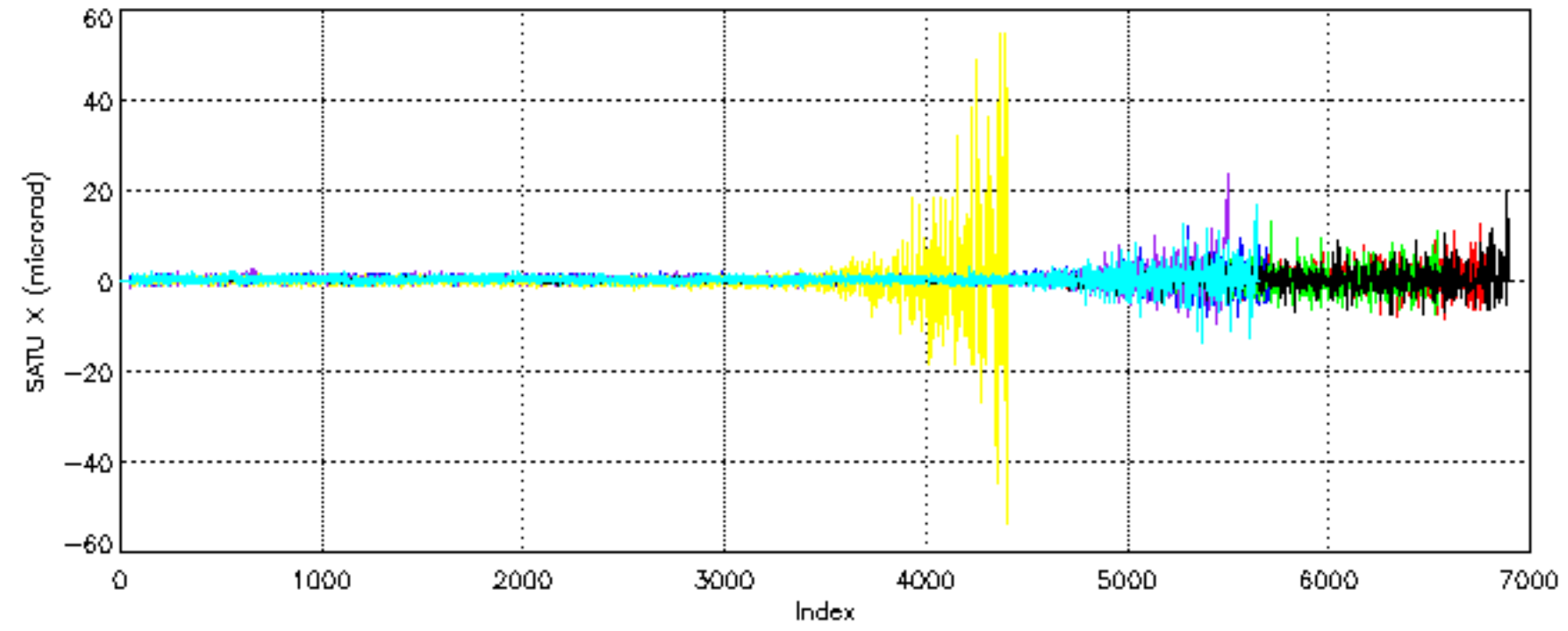
Tangent altitude at which the star is lost

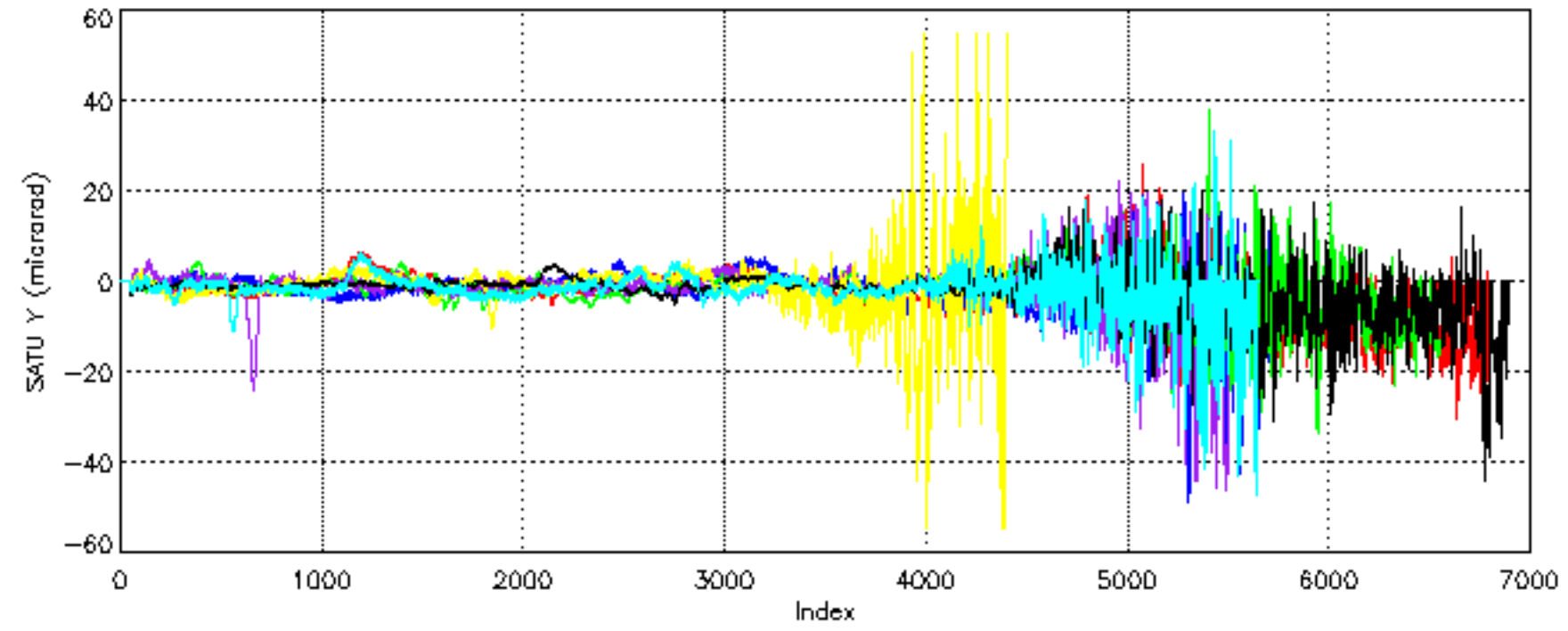




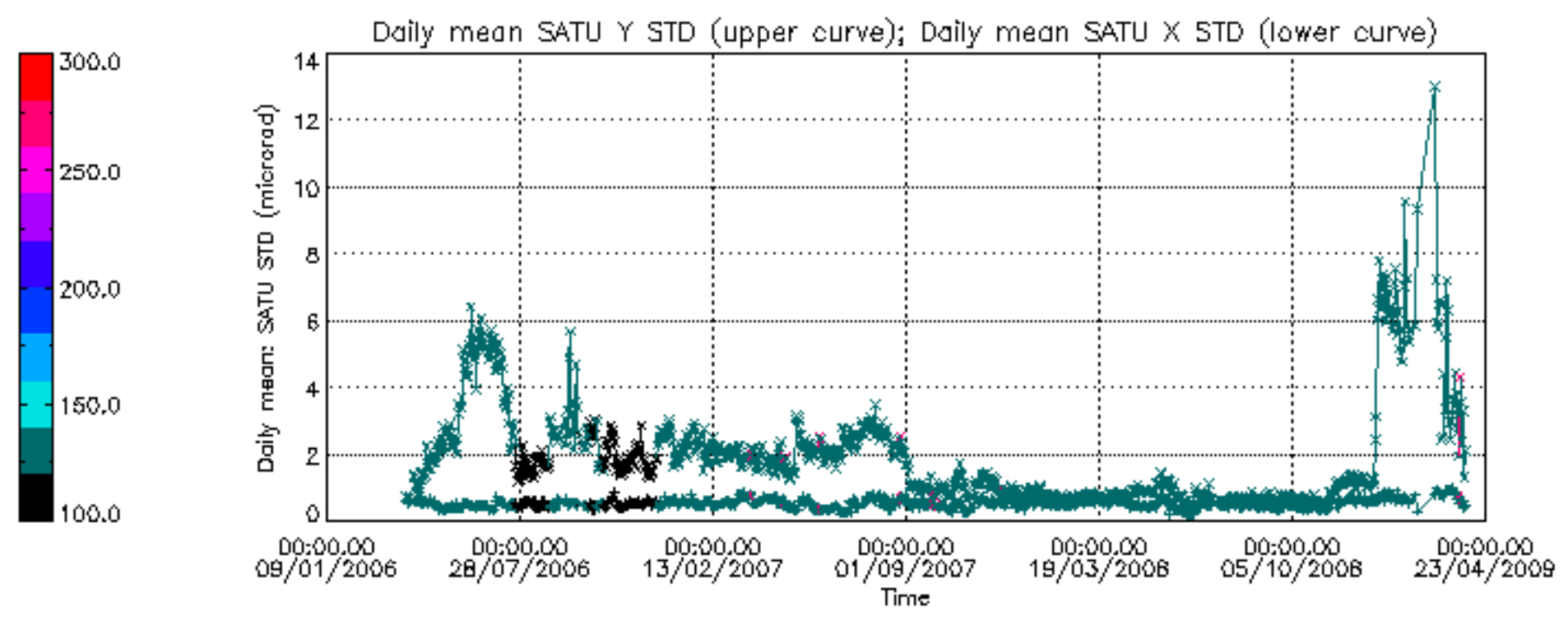
Tangent altitude at which the star is lost











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3; 1291.7; 25-APR-2009 20:43:15; Dark ; 54.5; 158; 6Pi Sco ; 2.91; 28000;occ; 109; 0;37400
4; 1583.1; 25-APR-2009 20:48:06; Bright; 47.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 95; 0;37400
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6; 2249.3; 25-APR-2009 20:59:13; Bright; 39.0; 111; 8Eta Boo ; 2.68; 6000;occ; 78; 0;37400
7; 2499.8; 25-APR-2009 21:03:23; Bright; 49.0; 83; ; 2.38; 11000;occ; 98; 0;37400
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6; 1292.0; 25-APR-2009 22:23:51; Dark ; 54.5; 158; 6Pi Sco ; 2.91; 28000;occ; 109; 0;37401
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4; 780.5; 25-APR-2009 23:55:55; Dark ; 61.0; 25; 35Lam Sco ; 1.62; 28000;occ; 122; 0;37402
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11; 5476.6; 25-APR-2009 11:49:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37394
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