

# GOMOS Daily Report 29-OCT-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	31OCT2009 04:31:38
Data source version	GOMOS/5.00L03
Start time of products	29OCT2009 04:06:54
Stop time of products	29OCT2009 23:56:21
Store outputs in DB	Yes
Nb of level 1b prods	22
Nb of prods with errors	0

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

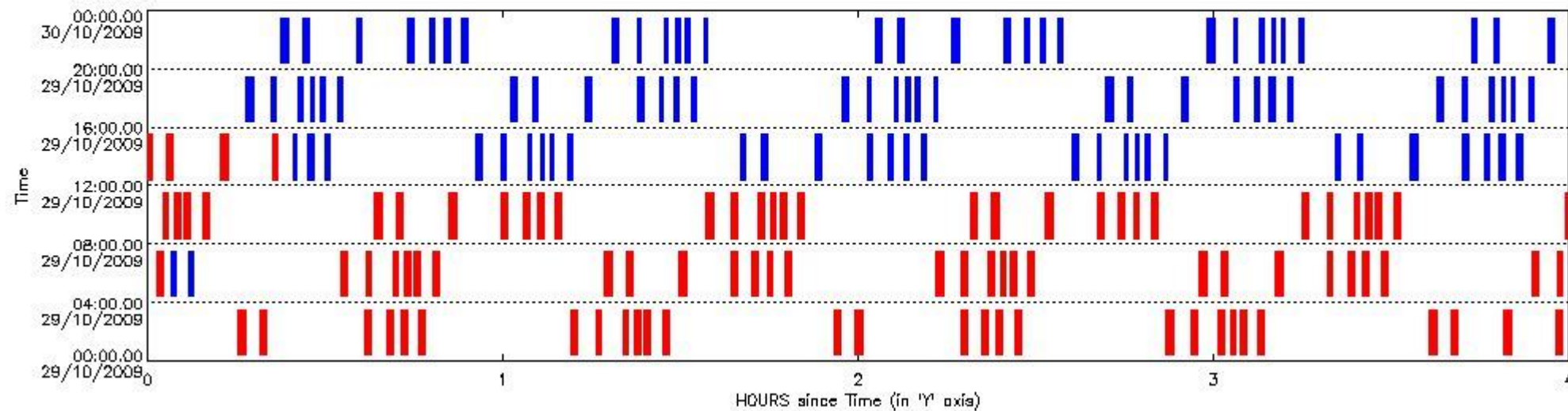
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

UTC start time	Star name	Star ID	Orbit
29-OCT-2009 00:15:11	17EpsLeo	166	40064
29-OCT-2009 00:18:51	32AlpLeo	22	40064
29-OCT-2009 00:36:39	LamVel	65	40064
29-OCT-2009 00:40:13	Gam2Vel	34	40065
29-OCT-2009 00:42:42	DSA1055	0	40065
29-OCT-2009 00:45:46	AlpCar	2	40065
29-OCT-2009 01:11:20	92AlpCet	94	40065
29-OCT-2009 01:15:36	6BetAri	105	40065
29-OCT-2009 01:20:07	4BetTri	173	40065
29-OCT-2009 01:22:09	57Gam1And	73	40065
29-OCT-2009 01:23:46	26BetPer	79	40065
29-OCT-2009 01:26:51	23GamPer	160	40065
29-OCT-2009 01:55:47	17EpsLeo	166	40065
29-OCT-2009 01:59:28	32AlpLeo	22	40065
29-OCT-2009 02:17:16	LamVel	65	40065

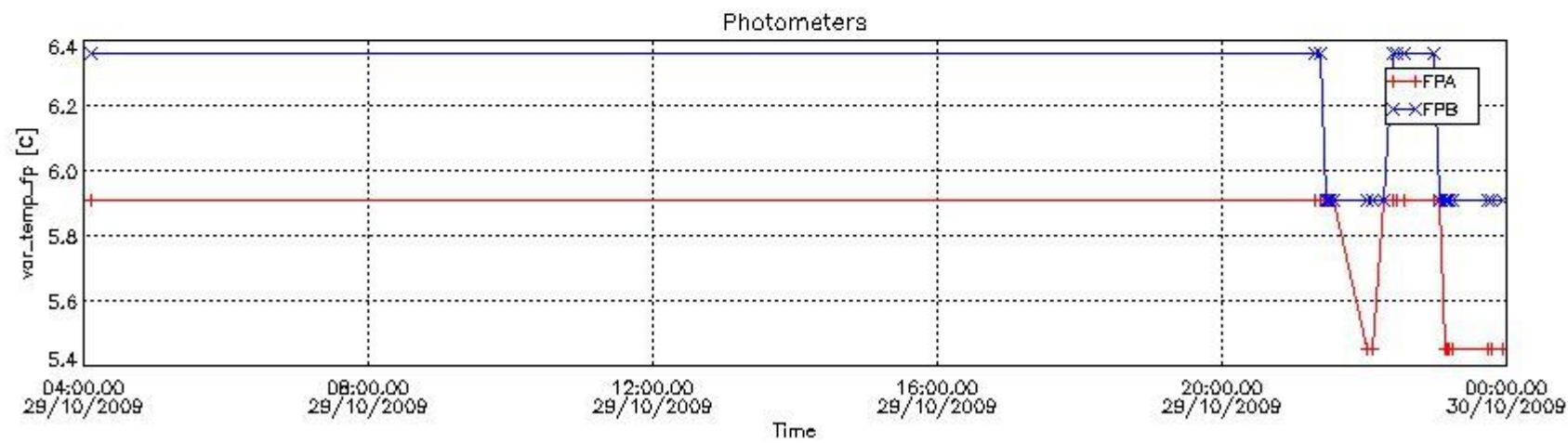
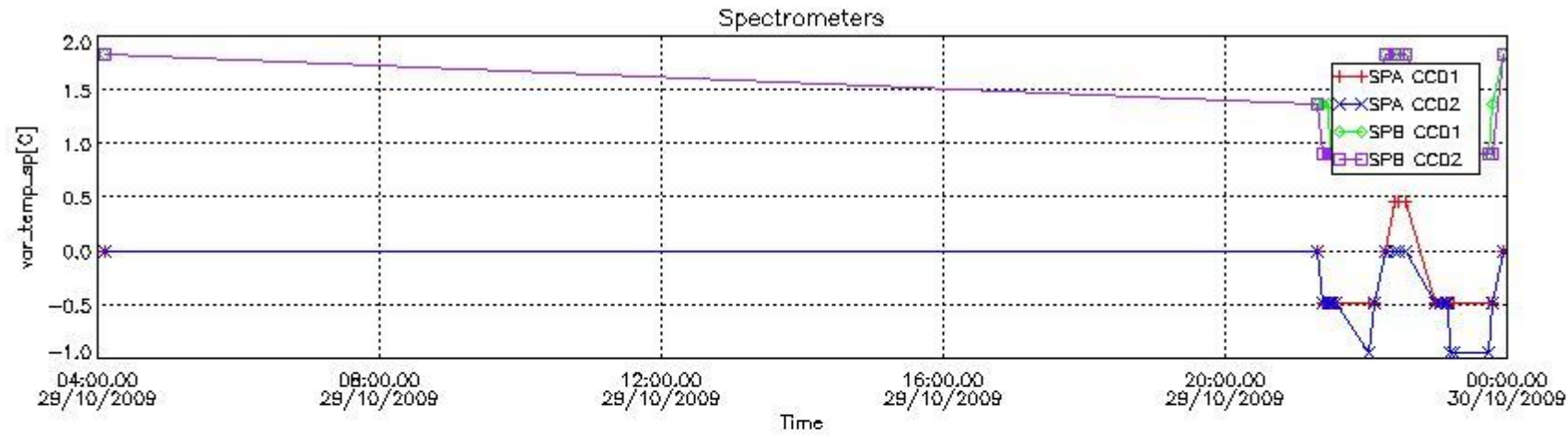
29-OCT-2009 02:20:50	Gam2Vel	34	40066
29-OCT-2009 02:23:19	DSA1055	0	40066
29-OCT-2009 02:26:22	AlpCar	2	40066
29-OCT-2009 02:51:55	92AlpCet	94	40066
29-OCT-2009 02:56:12	6BetAri	105	40066
29-OCT-2009 03:00:43	4BetTri	173	40066
29-OCT-2009 03:02:44	57Gam1And	73	40066
29-OCT-2009 03:04:21	26BetPer	79	40066
29-OCT-2009 03:07:27	23GamPer	160	40066
29-OCT-2009 03:36:24	17EpsLeo	166	40066
29-OCT-2009 03:40:04	32AlpLeo	22	40066
29-OCT-2009 03:49:00	30AlpHya	48	40066
29-OCT-2009 03:57:53	LamVel	65	40066
29-OCT-2009 04:01:27	Gam2Vel	34	40067
29-OCT-2009 04:32:31	92AlpCet	94	40067
29-OCT-2009 04:36:47	6BetAri	105	40067
29-OCT-2009 04:41:19	4BetTri	173	40067
29-OCT-2009 04:43:20	57Gam1And	73	40067
29-OCT-2009 04:44:57	26BetPer	79	40067
29-OCT-2009 04:48:02	23GamPer	160	40067
29-OCT-2009 05:17:00	17EpsLeo	166	40067
29-OCT-2009 05:20:41	32AlpLeo	22	40067
29-OCT-2009 05:29:37	30AlpHya	48	40067
29-OCT-2009 05:38:30	LamVel	65	40067
29-OCT-2009 05:42:04	Gam2Vel	34	40068
29-OCT-2009 05:44:33	DSA1055	0	40068
29-OCT-2009 05:47:36	AlpCar	2	40068
29-OCT-2009 06:13:06	92AlpCet	94	40068
29-OCT-2009 06:17:23	6BetAri	105	40068
29-OCT-2009 06:21:54	4BetTri	173	40068
29-OCT-2009 06:23:55	57Gam1And	73	40068
29-OCT-2009 06:25:32	26BetPer	79	40068
29-OCT-2009 06:28:38	23GamPer	160	40068
29-OCT-2009 06:57:36	17EpsLeo	166	40068
29-OCT-2009 07:01:17	32AlpLeo	22	40068
29-OCT-2009 07:10:15	30AlpHya	48	40068
29-OCT-2009 07:19:06	LamVel	65	40068
29-OCT-2009 07:22:40	Gam2Vel	34	40069
29-OCT-2009 07:25:10	DSA1055	0	40069
29-OCT-2009 07:28:12	AlpCar	2	40069
29-OCT-2009 07:53:42	92AlpCet	94	40069
29-OCT-2009 07:57:59	6BetAri	105	40069
29-OCT-2009 08:02:30	4BetTri	173	40069
29-OCT-2009 08:04:31	57Gam1And	73	40069
29-OCT-2009 08:06:07	26BetPer	79	40069
29-OCT-2009 08:09:13	23GamPer	160	40069
29-OCT-2009 08:38:13	17EpsLeo	166	40069
29-OCT-2009 08:41:54	32AlpLeo	22	40069
29-OCT-2009 08:50:52	30AlpHya	48	40069
29-OCT-2009 08:59:43	LamVel	65	40069
29-OCT-2009 09:03:17	Gam2Vel	34	40070
29-OCT-2009 09:05:47	DSA1055	0	40070
29-OCT-2009 09:08:49	AlpCar	2	40070
29-OCT-2009 09:34:17	92AlpCet	94	40070
29-OCT-2009 09:38:34	6BetAri	105	40070
29-OCT-2009 09:43:05	4BetTri	173	40070
29-OCT-2009 09:45:07	57Gam1And	73	40070
29-OCT-2009 09:46:42	26BetPer	79	40070
29-OCT-2009 09:49:48	23GamPer	160	40070

29-OCT-2009 10:18:49	17EpsLeo	166	40070
29-OCT-2009 10:22:30	32AlpLeo	22	40070
29-OCT-2009 10:31:29	30AlpHya	48	40070
29-OCT-2009 10:40:20	LamVel	65	40070
29-OCT-2009 10:43:54	Gam2Vel	34	40071
29-OCT-2009 10:46:23	DSA1055	0	40071
29-OCT-2009 10:49:26	AlpCar	2	40071
29-OCT-2009 11:14:53	92AlpCet	94	40071
29-OCT-2009 11:19:10	6BetAri	105	40071
29-OCT-2009 11:23:41	4BetTri	173	40071
29-OCT-2009 11:25:42	57Gam1And	73	40071
29-OCT-2009 11:27:17	26BetPer	79	40071
29-OCT-2009 11:30:24	23GamPer	160	40071
29-OCT-2009 11:59:25	17EpsLeo	166	40071
29-OCT-2009 12:03:07	32AlpLeo	22	40071
29-OCT-2009 12:12:06	30AlpHya	48	40071
29-OCT-2009 12:20:57	LamVel	65	40071

#### 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_1PNPDE20091029_040654_000000492083_00434_40067_2130.N1	29-OCT-2009 04:06:54	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	40067	No
2	GOM_TRA_1PNPDE20091029_211822_000000662083_00444_40077_2185.N1	29-OCT-2009 21:18:22	Bright	66.000	94	92Alp Cet	2.5260	3100.0	132	40077	No
3	GOM_TRA_1PNPDE20091029_212240_000000392083_00444_40077_2186.N1	29-OCT-2009 21:22:40	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	40077	No
4	GOM_TRA_1PNPDE20091029_212710_000000402083_00444_40077_2187.N1	29-OCT-2009 21:27:10	Bright	40.000	173	4Bet Tri	3.0040	8900.0	80	40077	No
5	GOM_TRA_1PNPDE20091029_212911_000000412083_00444_40077_2188.N1	29-OCT-2009 21:29:11	Bright	41.000	73	57Gam1And	2.2600	13100.	82	40077	No
6	GOM_TRA_1PNPDE20091029_213044_000000452083_00444_40077_2189.N1	29-OCT-2009 21:30:44	Bright	44.500	79	26Bet Per	2.3100	13100.	89	40077	No
7	GOM_TRA_1PNPDE20091029_213352_000000432083_00444_40077_2190.N1	29-OCT-2009 21:33:52	Bright	42.500	160	23Gam Per	2.9300	4700.0	85	40077	No
8	GOM_TRA_1PNPDE20091029_220258_000000542083_00444_40077_2191.N1	29-OCT-2009 22:02:58	Bright	54.000	166	17Eps Leo	2.9800	6000.0	108	40077	No
9	GOM_TRA_1PNPDE20091029_220641_000000532083_00444_40077_2192.N1	29-OCT-2009 22:06:41	Bright	53.000	22	32Alp Leo	1.3600	15200.	106	40077	No
10	GOM_TRA_1PNPDE20091029_221544_000000722083_00444_40077_2190.N1	29-OCT-2009 22:15:44	Dark	71.500	48	30Alp Hya	1.9770	4100.0	143	40077	No
11	GOM_TRA_1PNPDE20091029_222432_000000602083_00444_40077_2191.N1	29-OCT-2009 22:24:32	Dark	59.500	65	Lam Vel	2.2040	4400.0	119	40077	No
12	GOM_TRA_1PNPDE20091029_222807_000000462083_00445_40078_2192.N1	29-OCT-2009 22:28:07	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	40078	No
13	GOM_TRA_1PNPDE20091029_223338_000000492083_00445_40078_2193.N1	29-OCT-2009 22:33:38	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	40078	No
14	GOM_TRA_1PNPDE20091029_225857_000000672083_00445_40078_2194.N1	29-OCT-2009 22:58:57	Bright	67.000	94	92Alp Cet	2.5260	3100.0	134	40078	No
15	GOM_TRA_1PNPDE20091029_230316_000000402083_00445_40078_2195.N1	29-OCT-2009 23:03:16	Bright	39.500	105	6Bet Ari	2.6450	8900.0	79	40078	No
16	GOM_TRA_1PNPDE20091029_230745_000000382083_00445_40078_2196.N1	29-OCT-2009 23:07:45	Bright	38.000	173	4Bet Tri	3.0040	8900.0	76	40078	No
17	GOM_TRA_1PNPDE20091029_230947_000000402083_00445_40078_2197.N1	29-OCT-2009 23:09:47	Bright	40.000	73	57Gam1And	2.2600	13100.	80	40078	No
18	GOM_TRA_1PNPDE20091029_231119_000000472083_00445_40078_2198.N1	29-OCT-2009 23:11:19	Bright	46.500	79	26Bet Per	2.3100	13100.	93	40078	No
19	GOM_TRA_1PNPDE20091029_231427_000000432083_00445_40078_2199.N1	29-OCT-2009 23:14:27	Bright	43.000	160	23Gam Per	2.9300	4700.0	86	40078	No
20	GOM_TRA_1PNPDE20091029_234334_000000532083_00445_40078_2200.N1	29-OCT-2009 23:43:34	Bright	52.500	166	17Eps Leo	2.9800	6000.0	105	40078	No
21	GOM_TRA_1PNPDE20091029_234717_000000542083_00445_40078_2201.N1	29-OCT-2009 23:47:17	Bright	54.000	22	32Alp Leo	1.3600	15200.	108	40078	No
22	GOM_TRA_1PNPDE20091029_235621_000000662083_00445_40078_2197.N1	29-OCT-2009 23:56:21	Dark	66.000	48	30Alp Hya	1.9770	4100.0	132	40078	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).

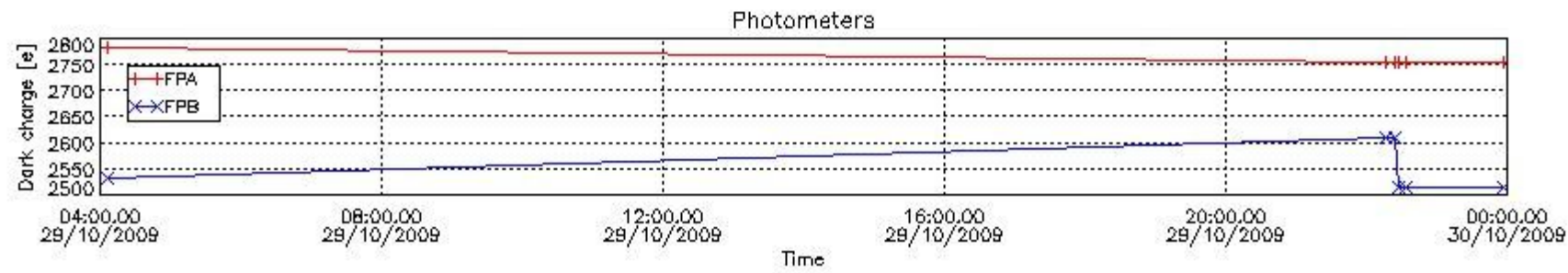
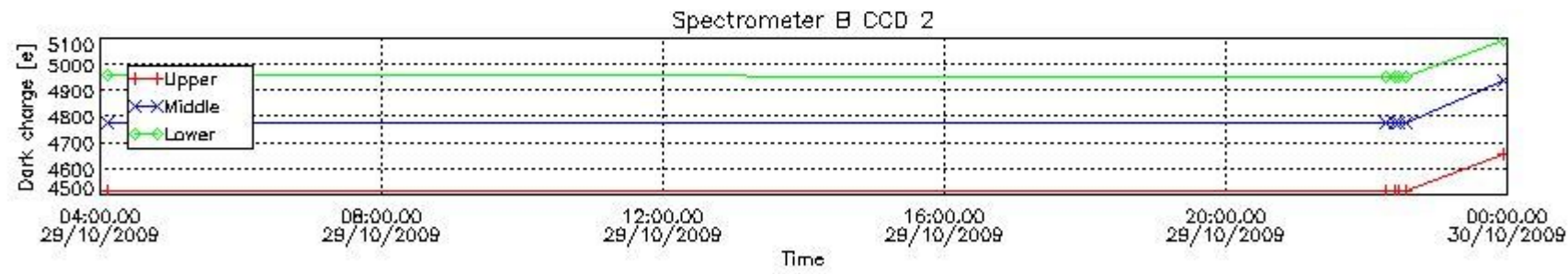
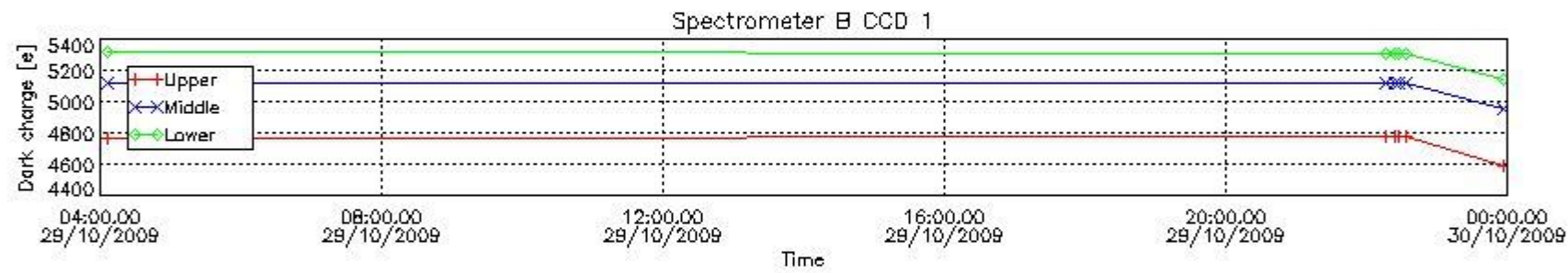
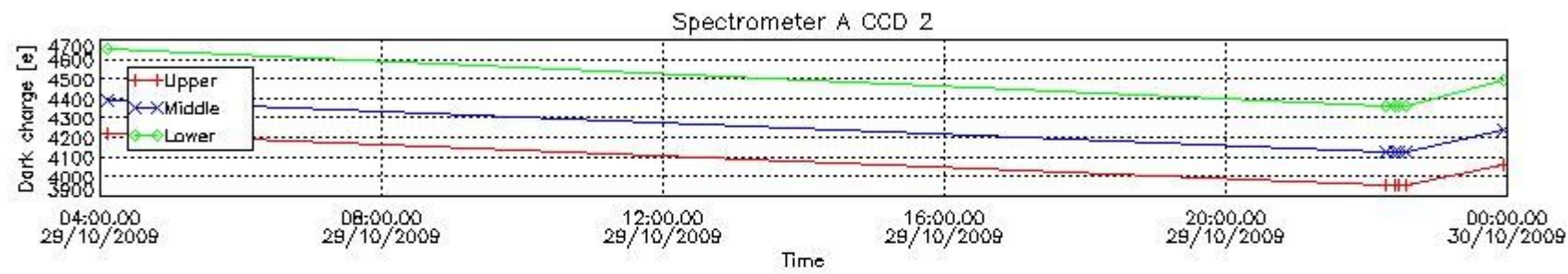
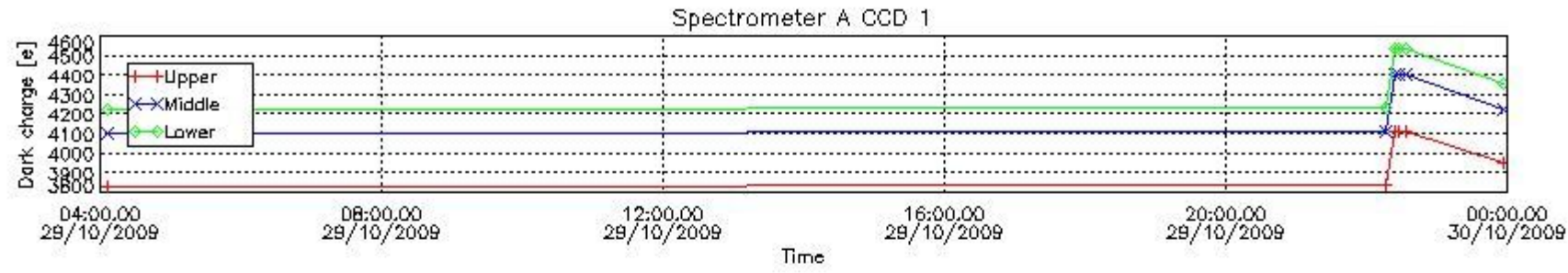
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20091029_211822_000000662083_00444_40077_2185.N1	DC map used
GOM_TRA_1PNPDE20091029_212240_000000392083_00444_40077_2186.N1	DC map used
GOM_TRA_1PNPDE20091029_212710_000000402083_00444_40077_2187.N1	DC map used
GOM_TRA_1PNPDE20091029_212911_000000412083_00444_40077_2188.N1	DC map used
GOM_TRA_1PNPDE20091029_213044_000000452083_00444_40077_2189.N1	DC map used
GOM_TRA_1PNPDE20091029_213352_000000432083_00444_40077_2190.N1	DC map used
GOM_TRA_1PNPDE20091029_220258_000000542083_00444_40077_2191.N1	DC map used
GOM_TRA_1PNPDE20091029_220641_000000532083_00444_40077_2192.N1	DC map used
GOM_TRA_1PNPDE20091029_235621_000000662083_00445_40078_2197.N1	DC map used

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





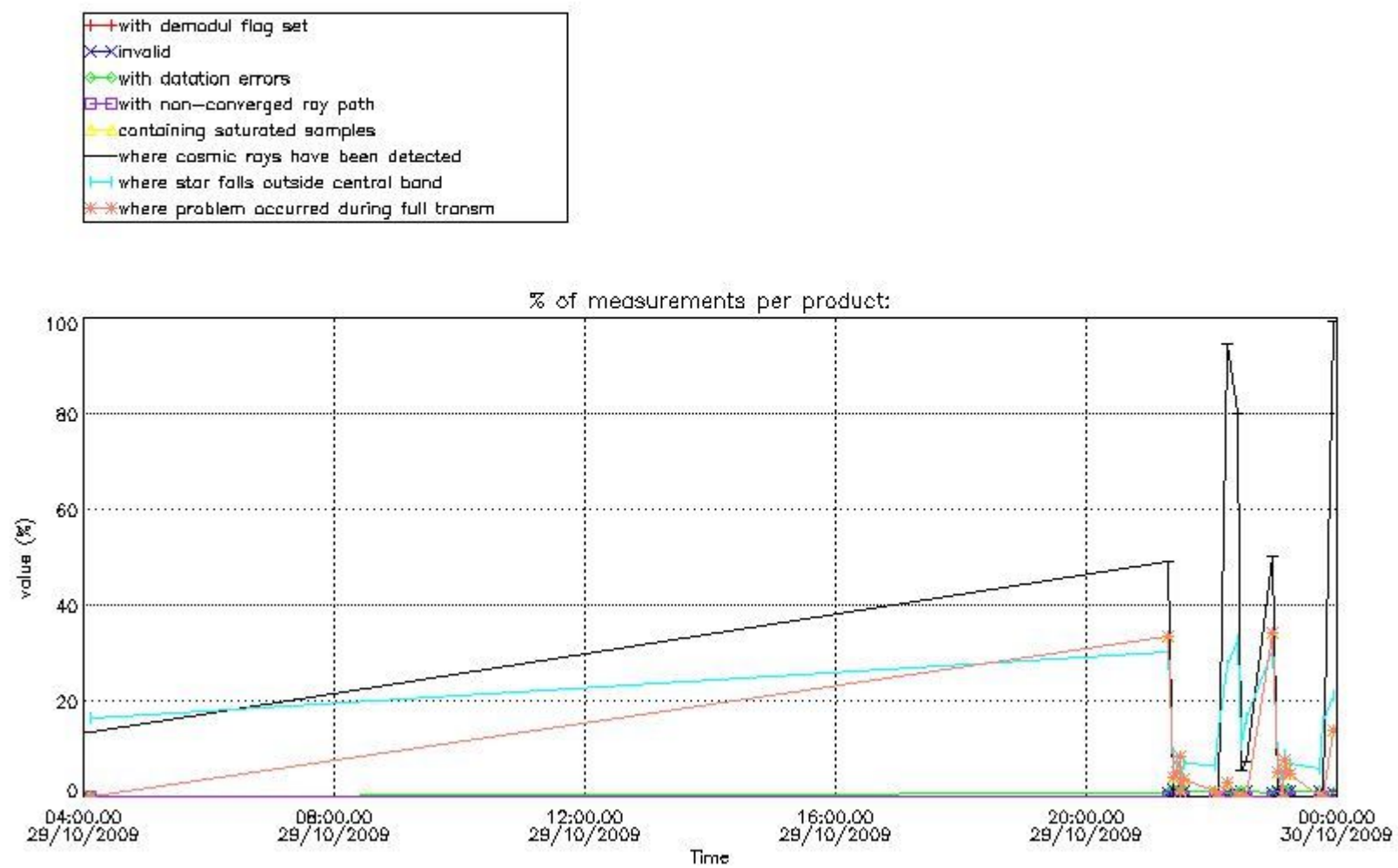
## 5. Demodulation flag and quality information monitoring

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.

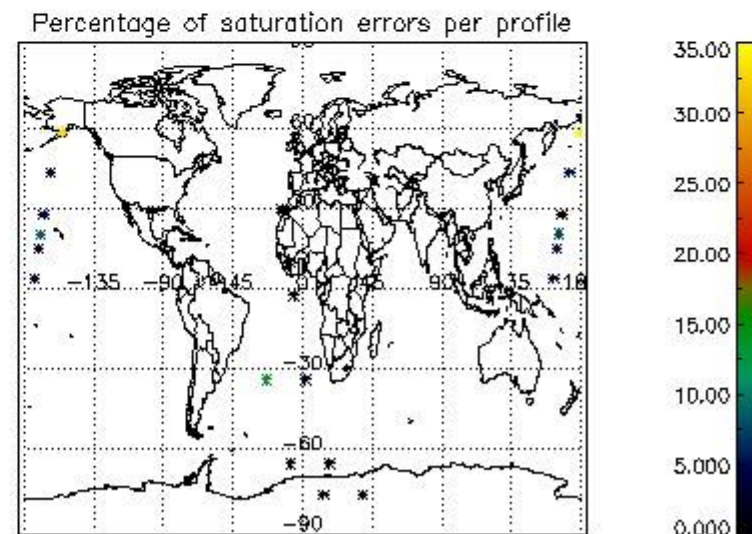
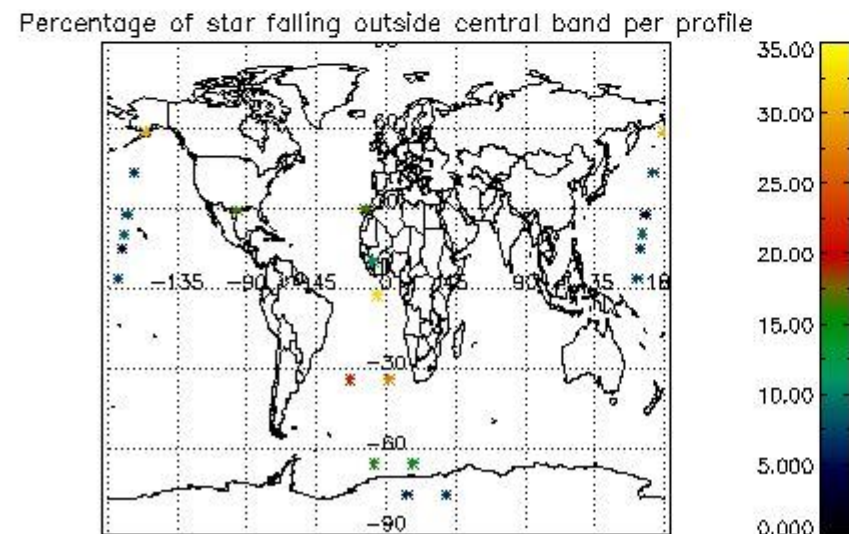
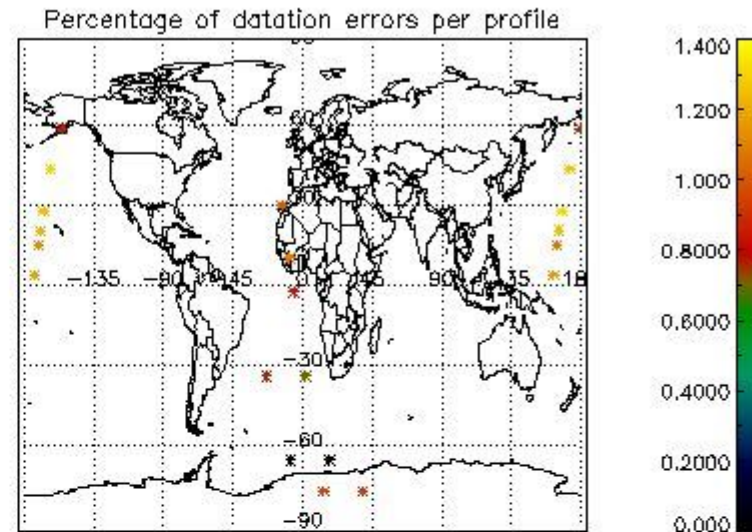
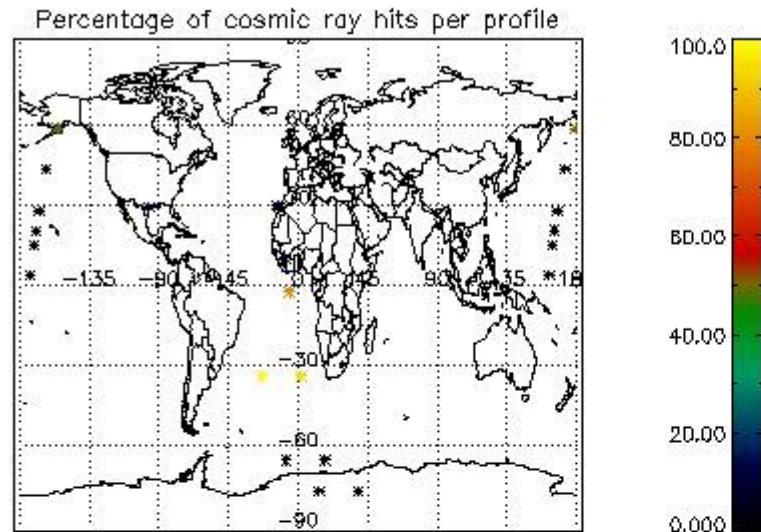
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	27.2727 %
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)

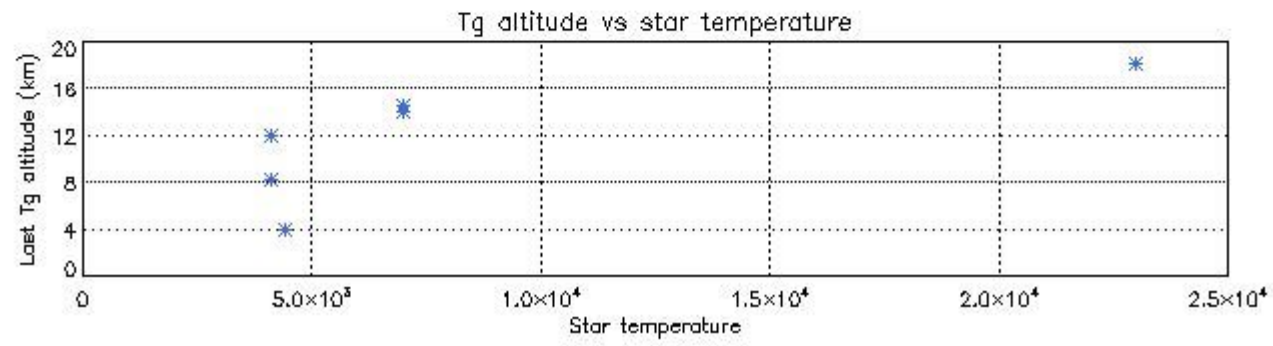
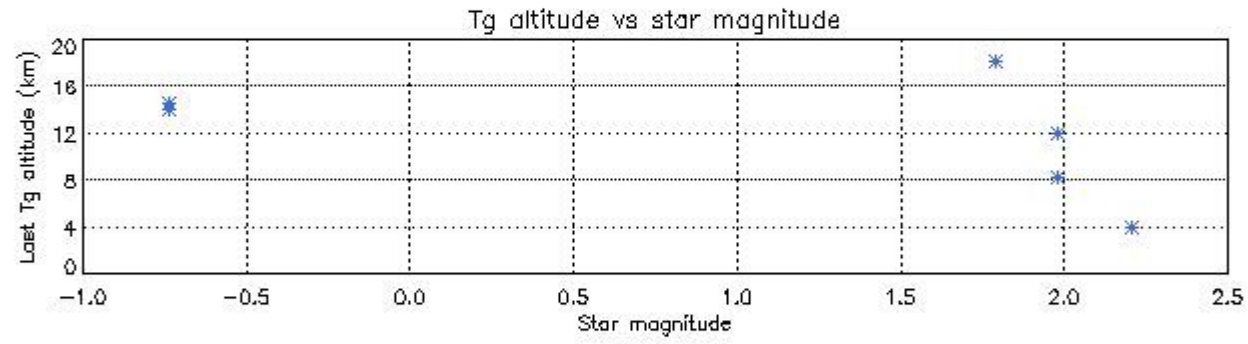
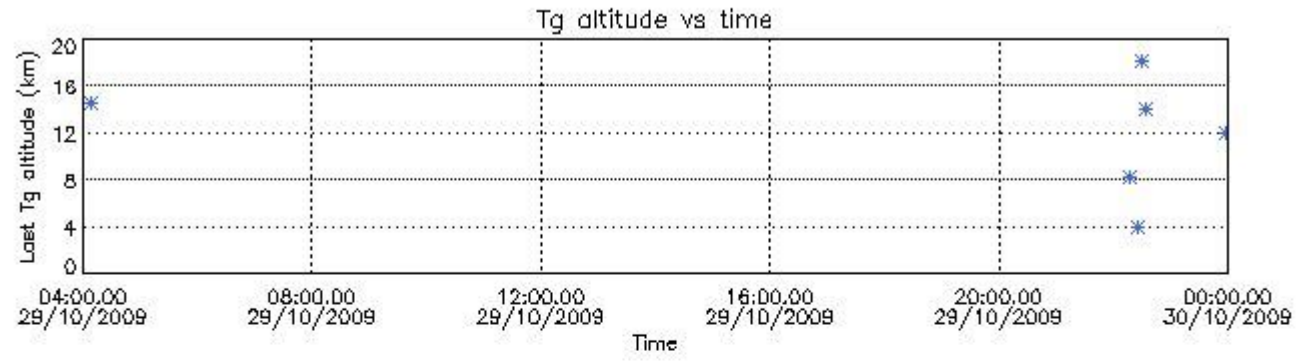
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	11.777	18.145	NaN
St. deviation:	5.0258	5.2657	NaN
Maximum:	18.049	24.942	NaN
Minimum:	3.8733	6.7348	NaN
Number of data:	6.0000	16.000	NaN

### 6.2 Plot for DARK limb products

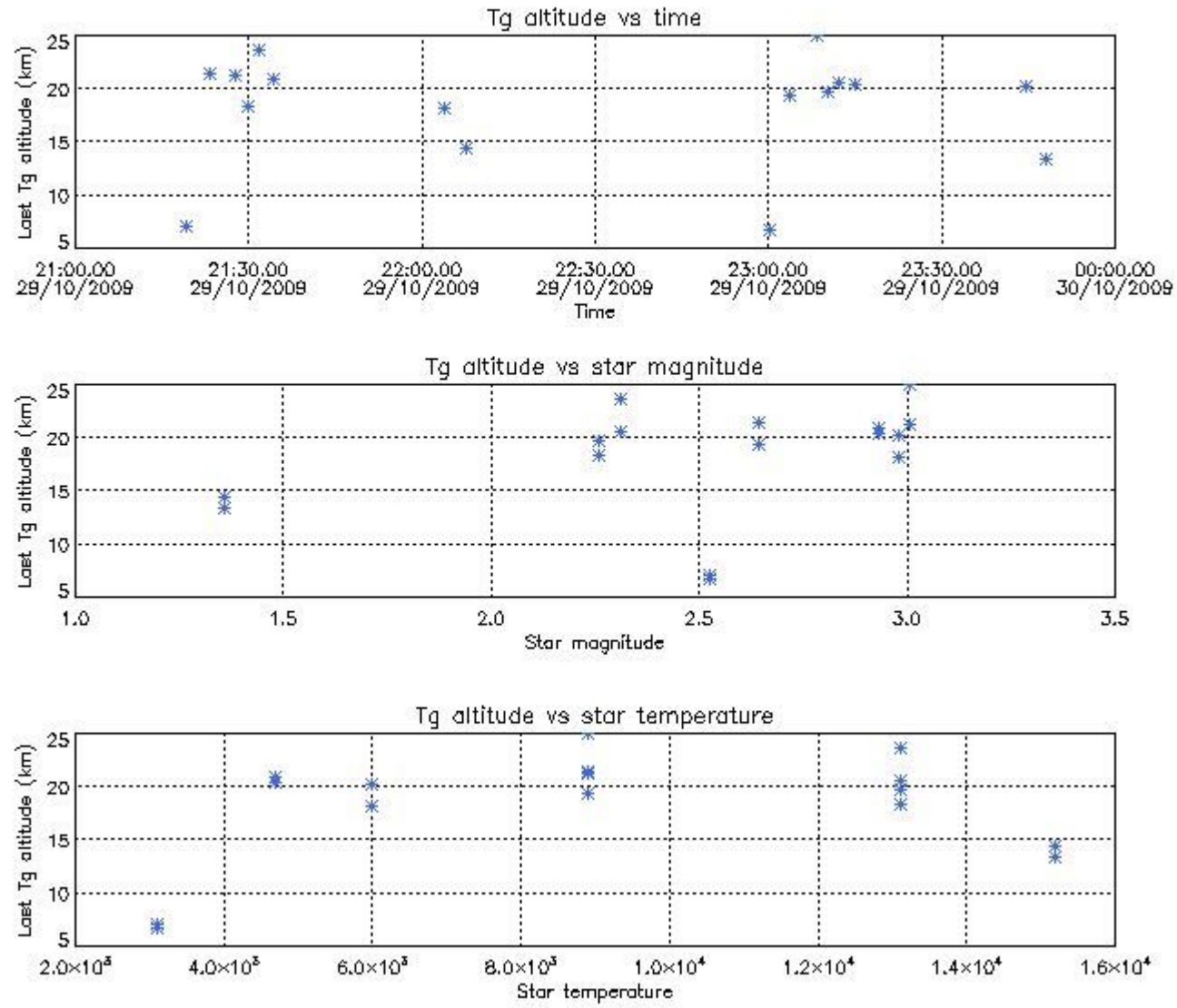


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost

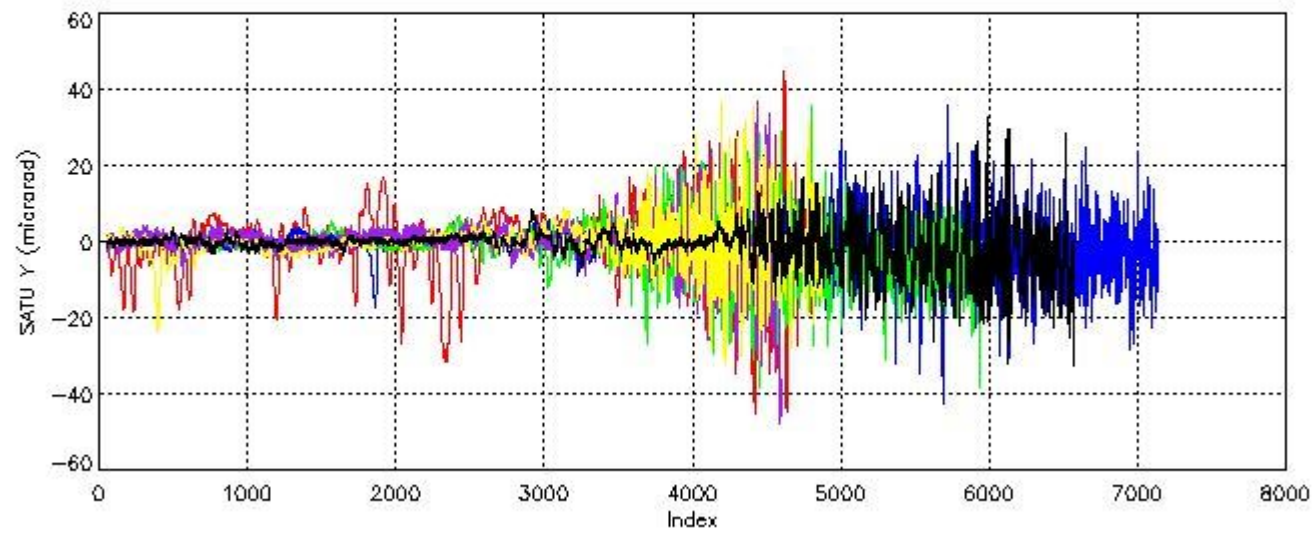
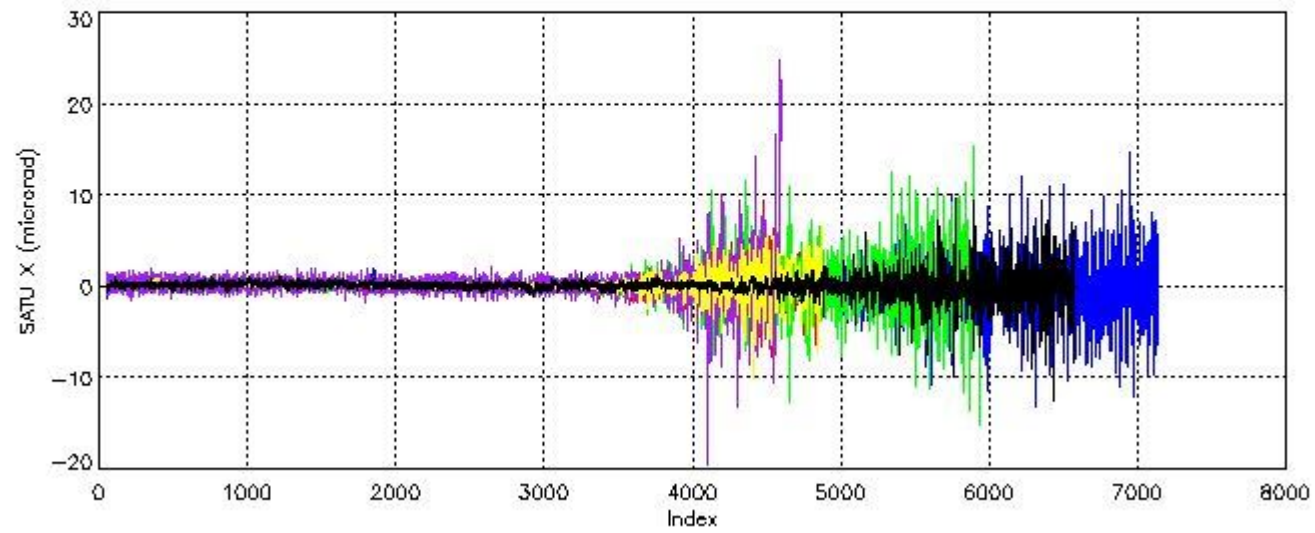


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.20666	-0.60585	0.24635	-0.019762
St. deviation:	0.29333	2.4927	0.80280	1.7568
Maximum:	2.0000	7.5000	5.6000	8.0000
Minimum:	-1.5000	-23.900	-5.4000	-11.100

Number of data:	6850.0	6850.0	16700.	16700.
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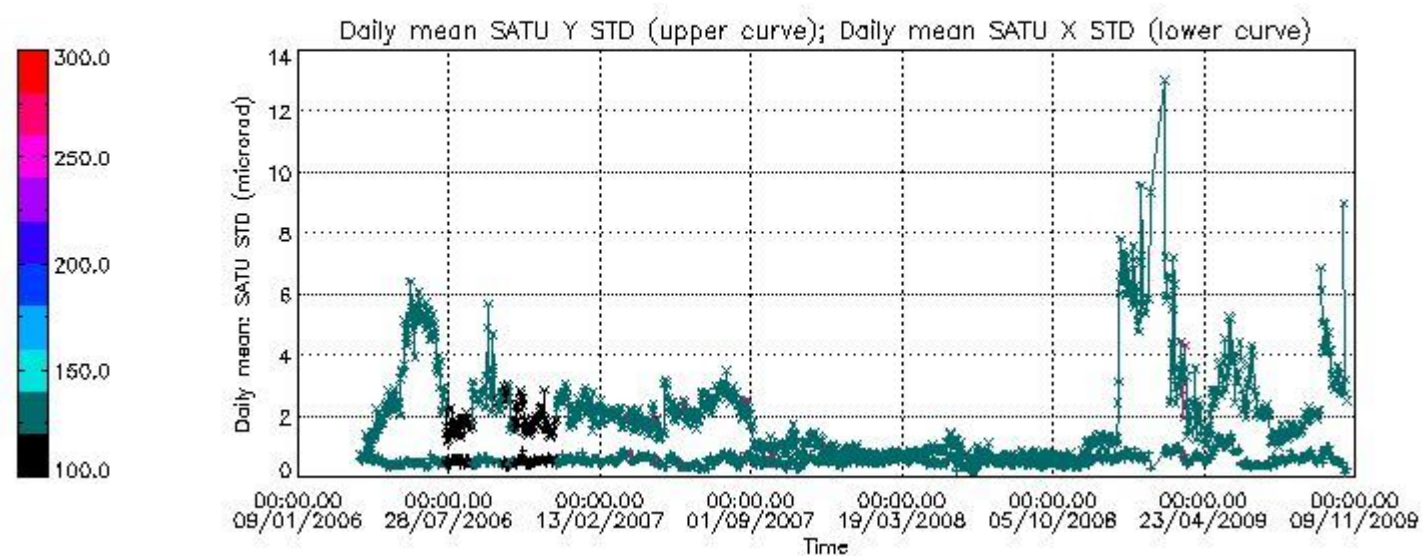
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

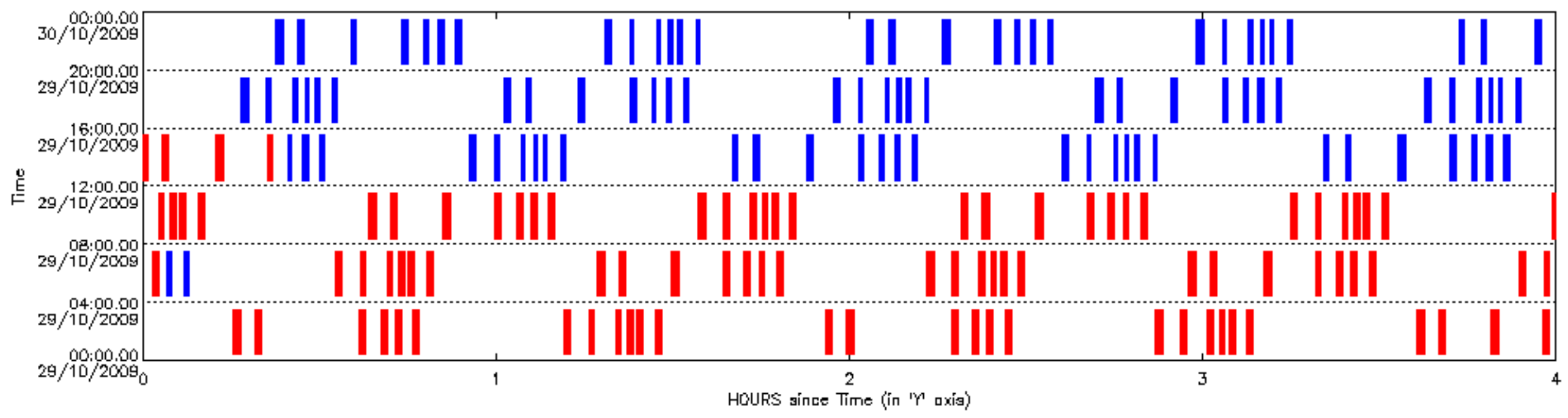


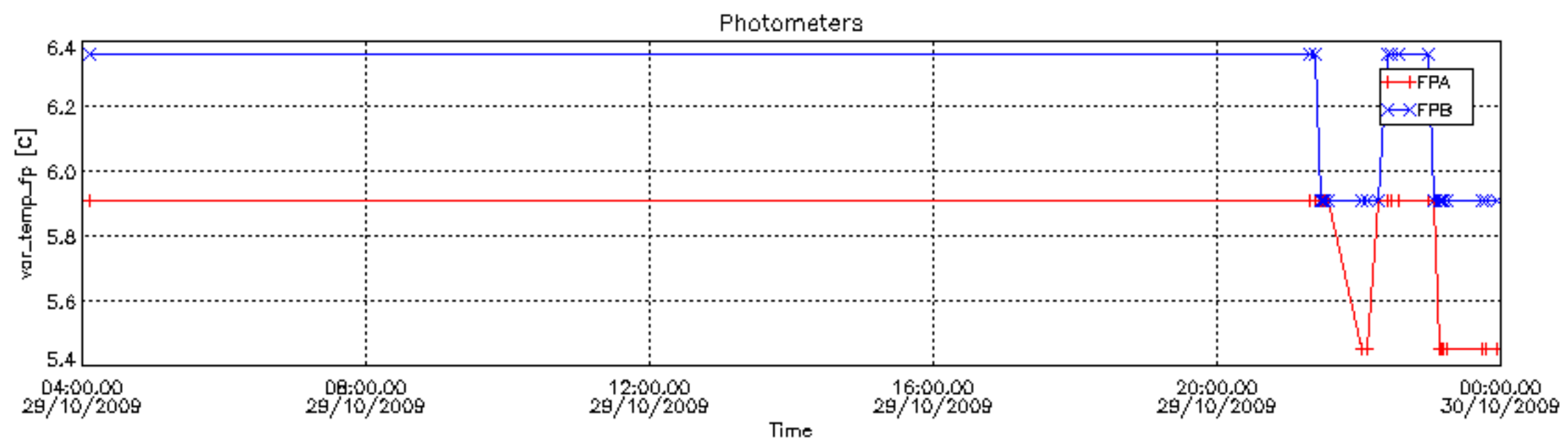
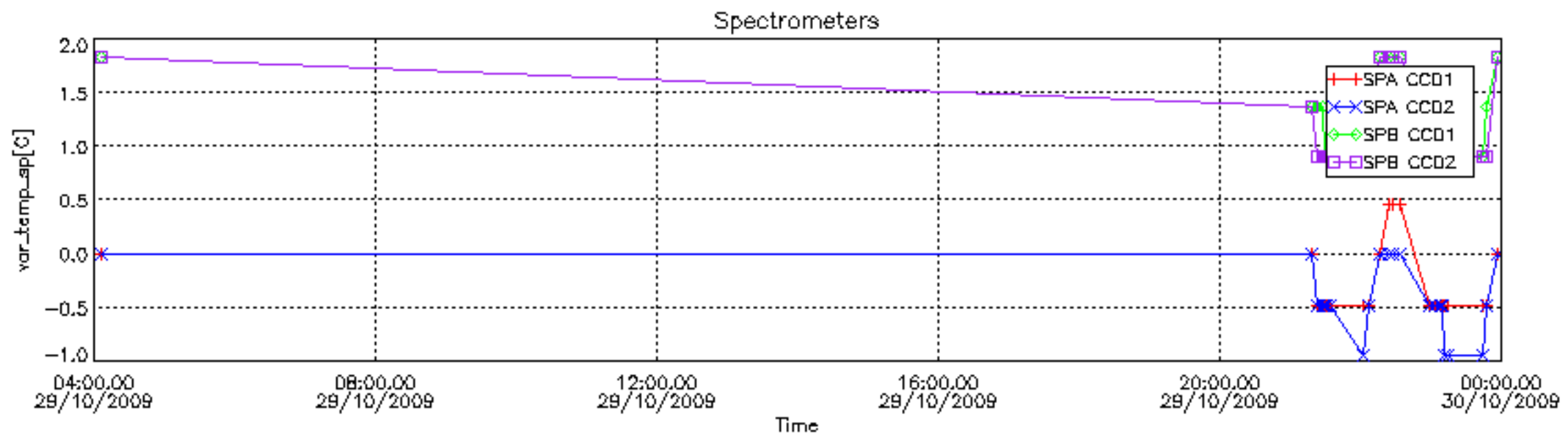
### 8. Auxiliary Data Files used for the production reported in section 2.4

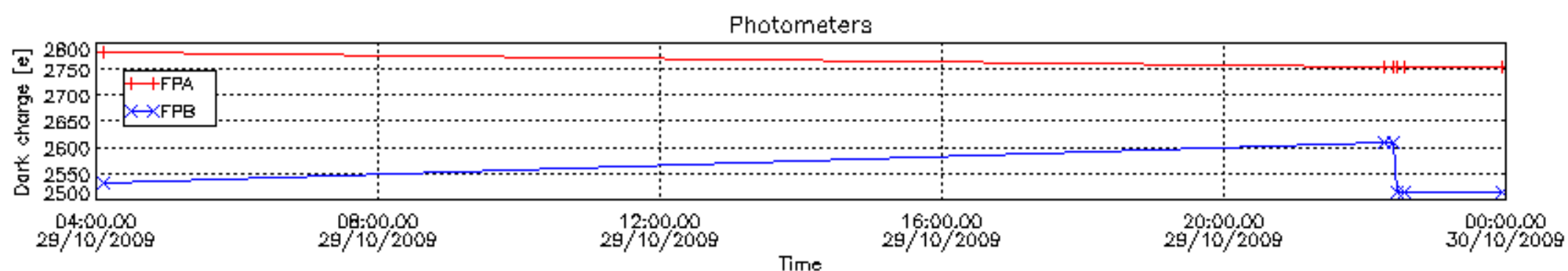
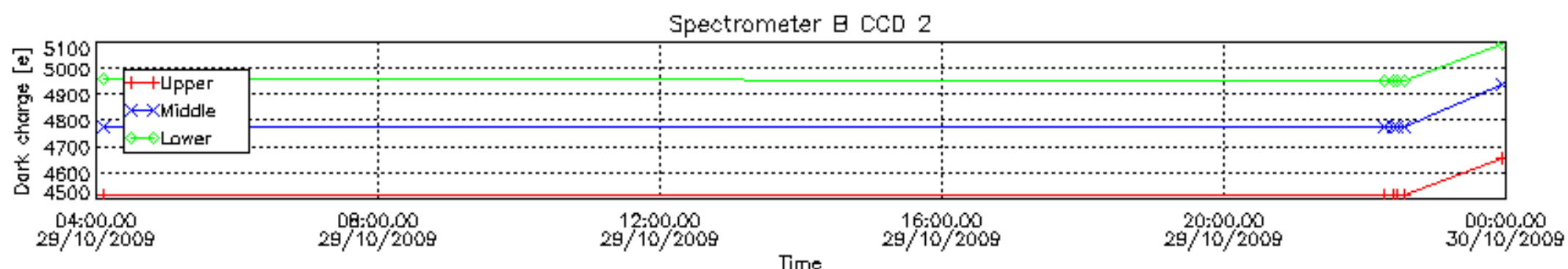
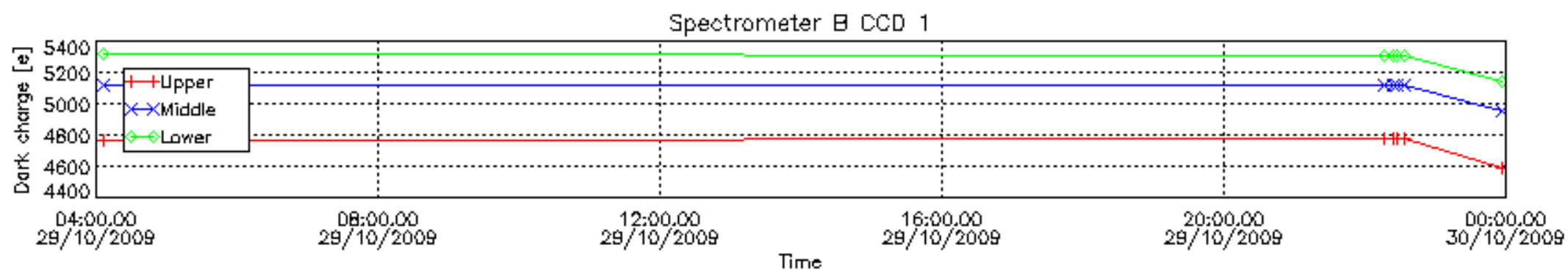
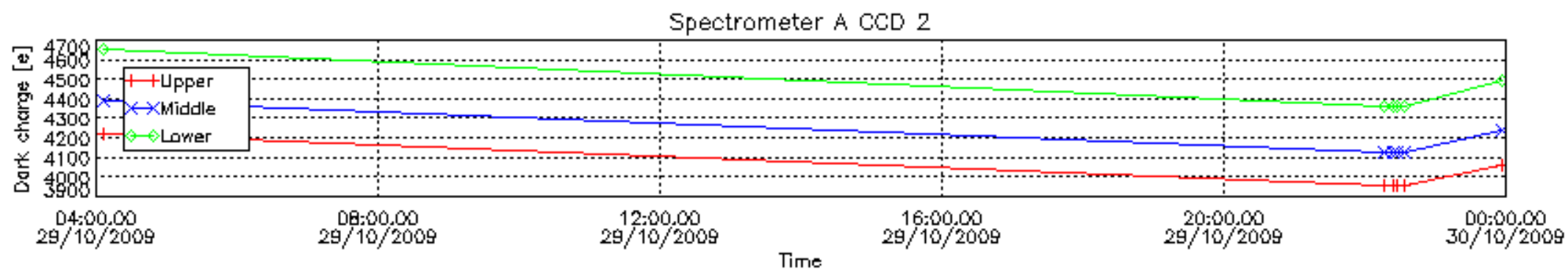
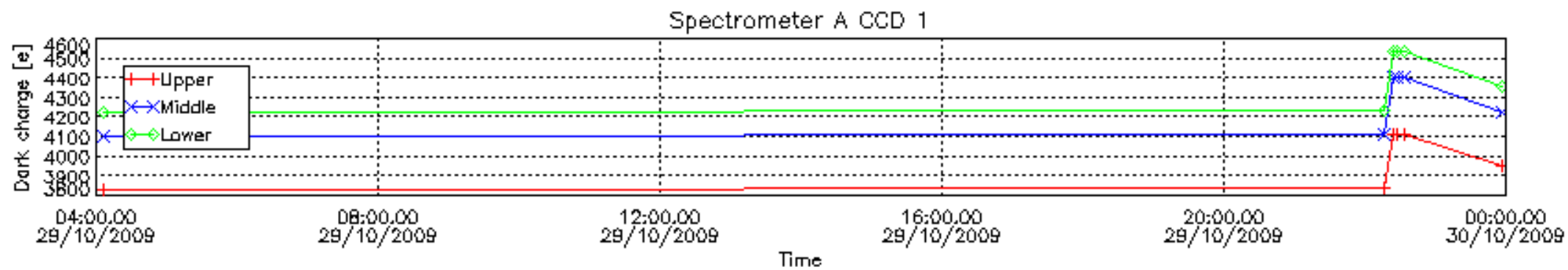
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

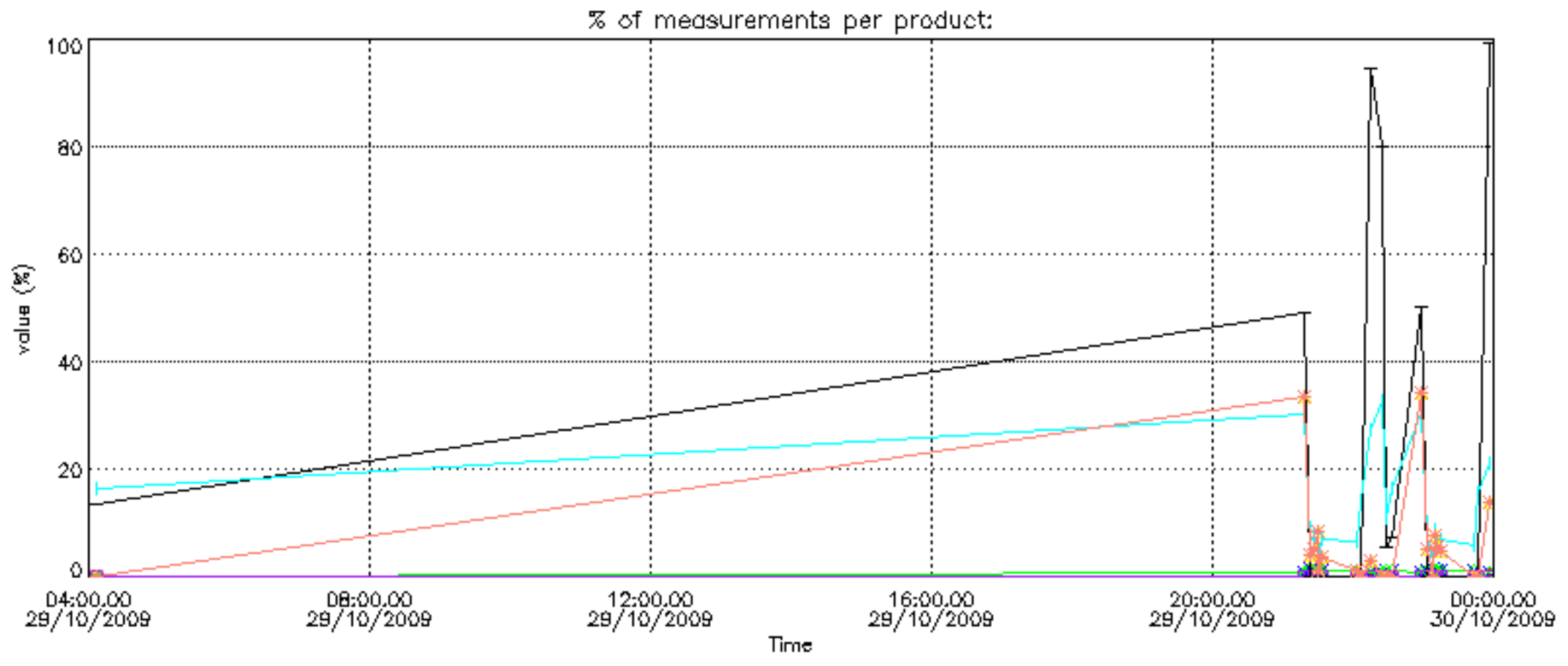
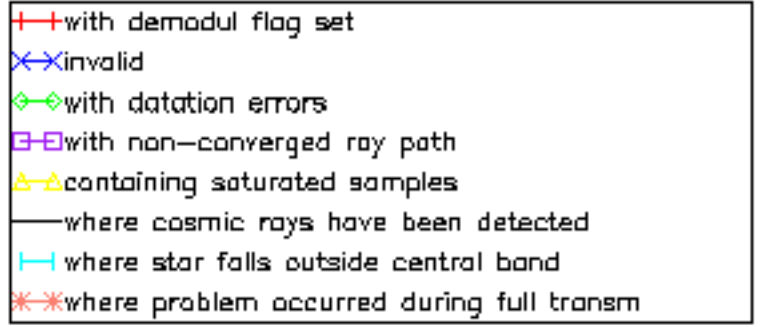
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	29-OCT-2009 04:06:54
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091021_155237_20091019_000000_20100101_000000	1	29-OCT-2009 04:06:54
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091029_082046_20091027_000000_20100101_000000	2	29-OCT-2009 21:18:22
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	29-OCT-2009 04:06:54
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	29-OCT-2009 04:06:54
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	29-OCT-2009 04:06:54
ECMWF_FILE	AUX_ECF_AXNECM20091028_183416_20091029_030000_20091029_150000	1	29-OCT-2009 04:06:54
ECMWF_FILE	AUX_ECF_AXNECM20091029_064114_20091029_210000_20091030_090000	2	29-OCT-2009 21:18:22
OPTIONAL_ECMWF_FILE	MISSING	1	29-OCT-2009 04:06:54
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091029_032140_000054192083_00433_40066_9060.N1	1	29-OCT-2009 04:06:54
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091029_205859_000038252083_00444_40077_9062.N1	2	29-OCT-2009 21:18:22
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091029_010112_20091028_193542_20091107_210155	10	29-OCT-2009 22:15:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091029_234900_000057382083_00445_40078_9064.N1	22	29-OCT-2009 23:56:21





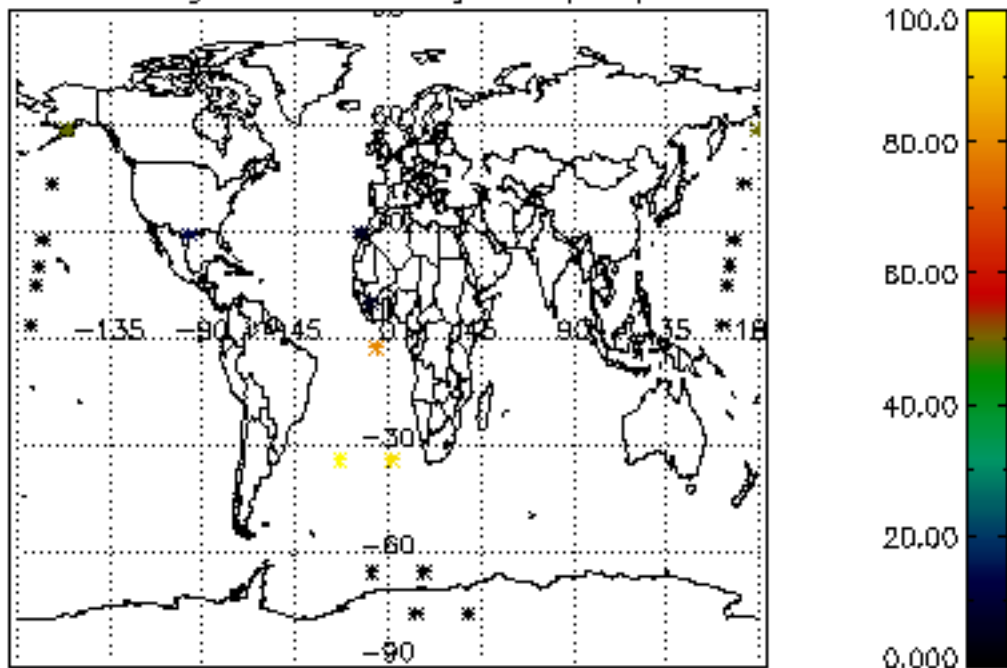




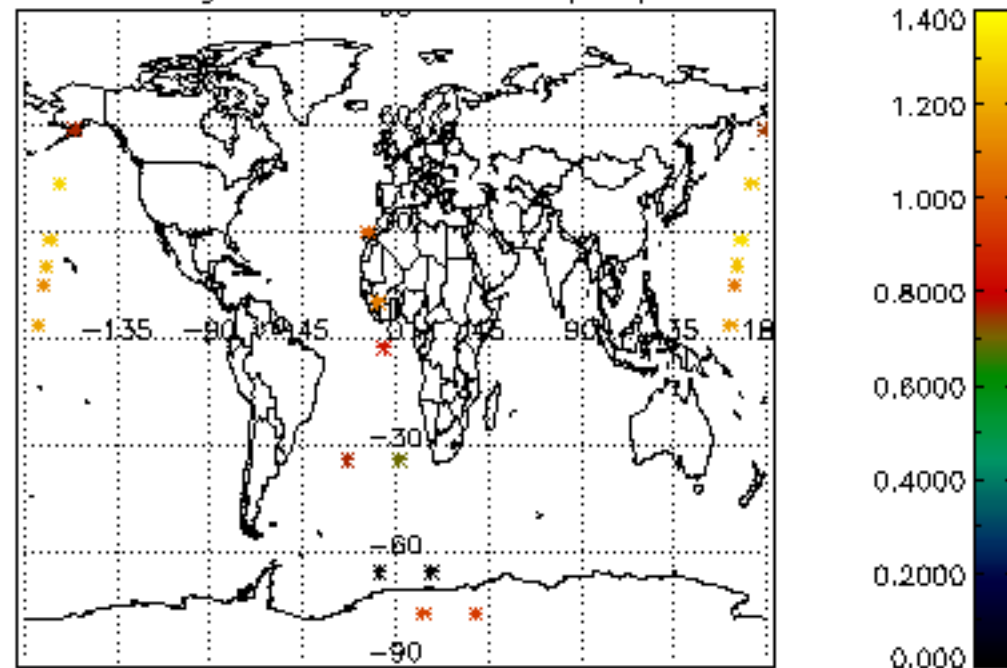




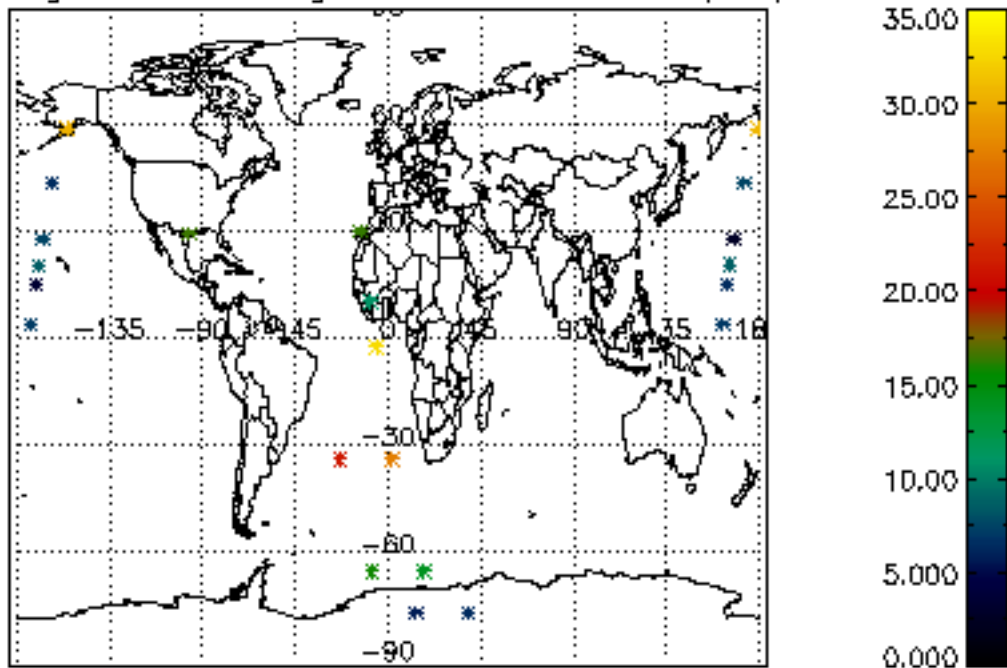
Percentage of cosmic ray hits per profile



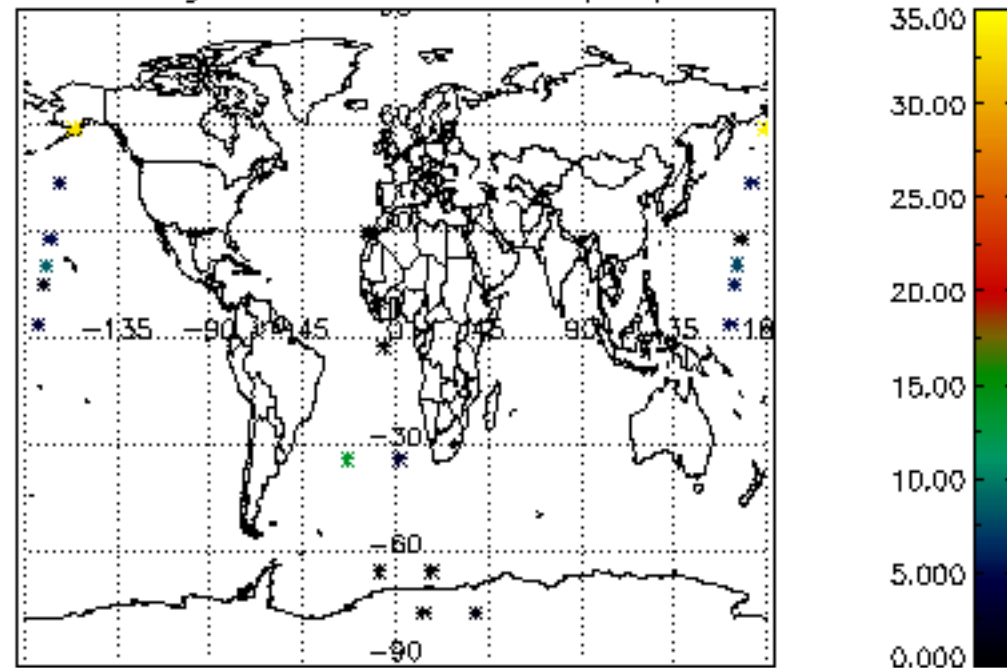
Percentage of datation errors per profile



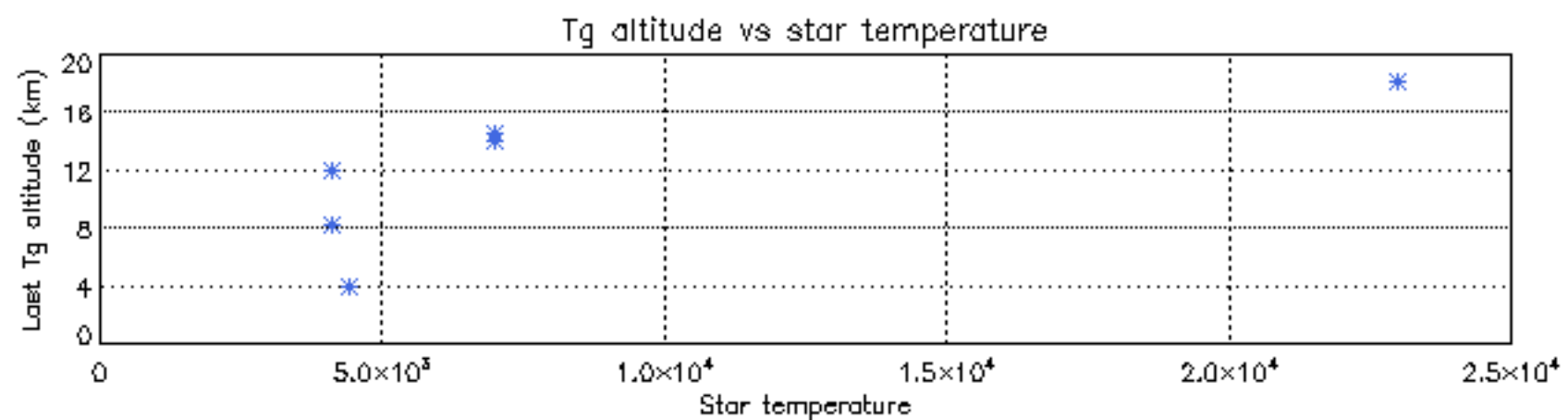
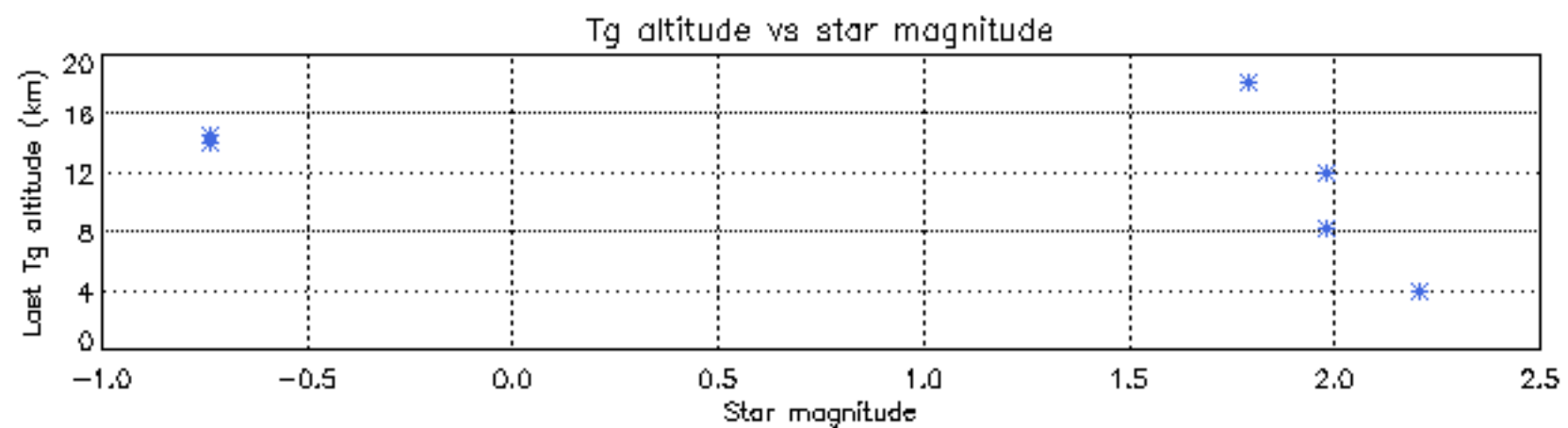
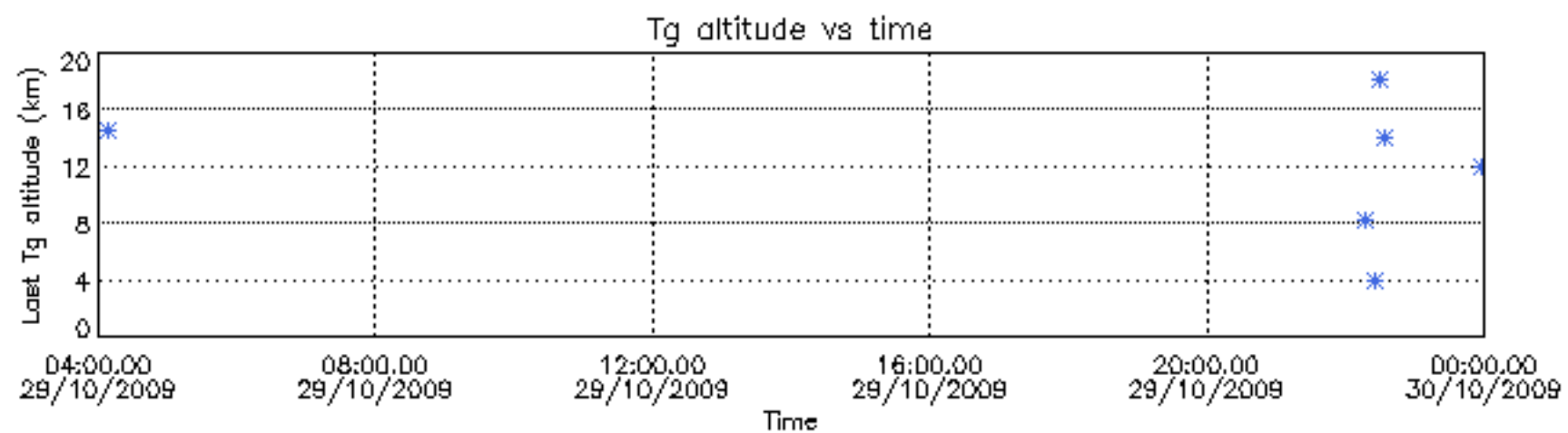
Percentage of star falling outside central band per profile



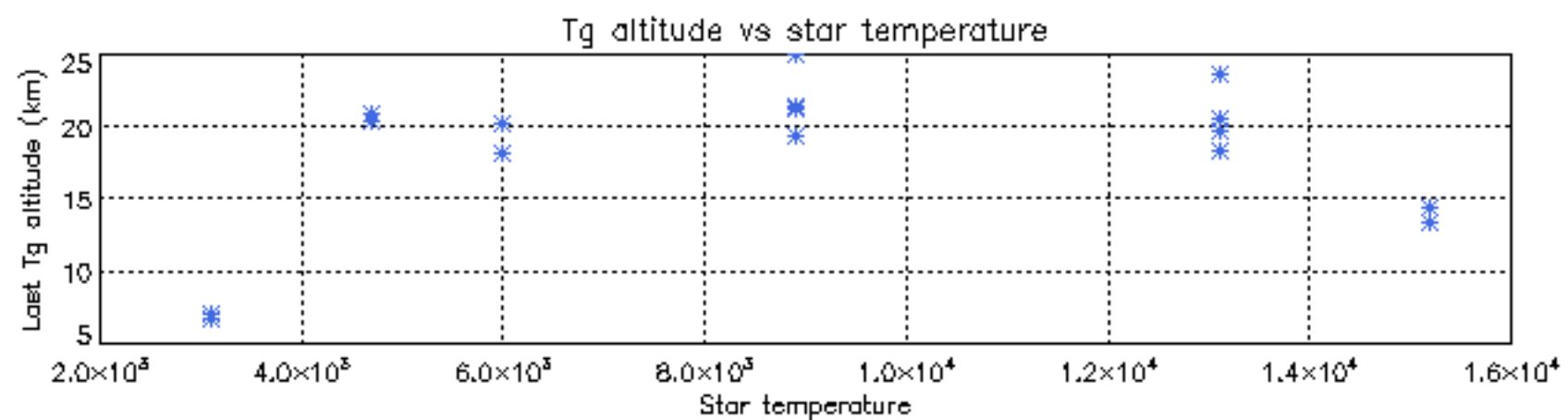
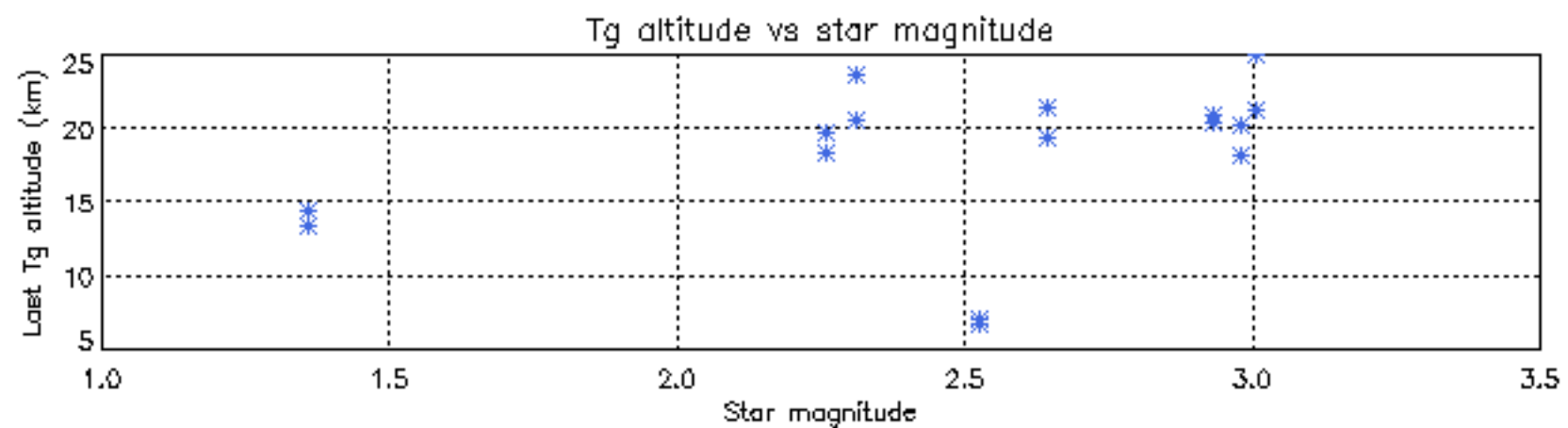
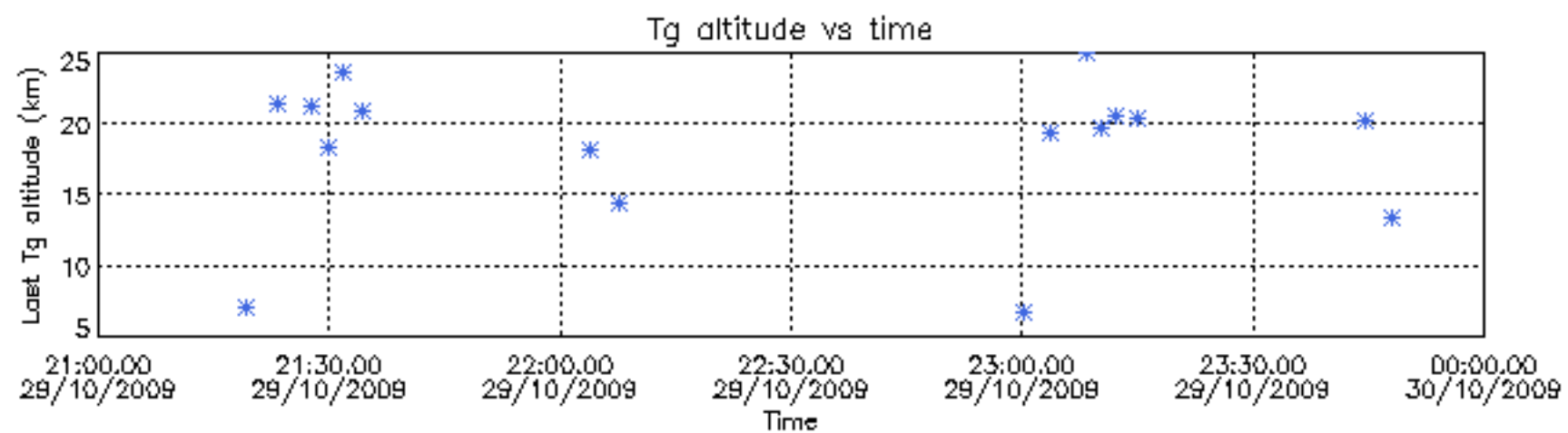
Percentage of saturation errors per profile

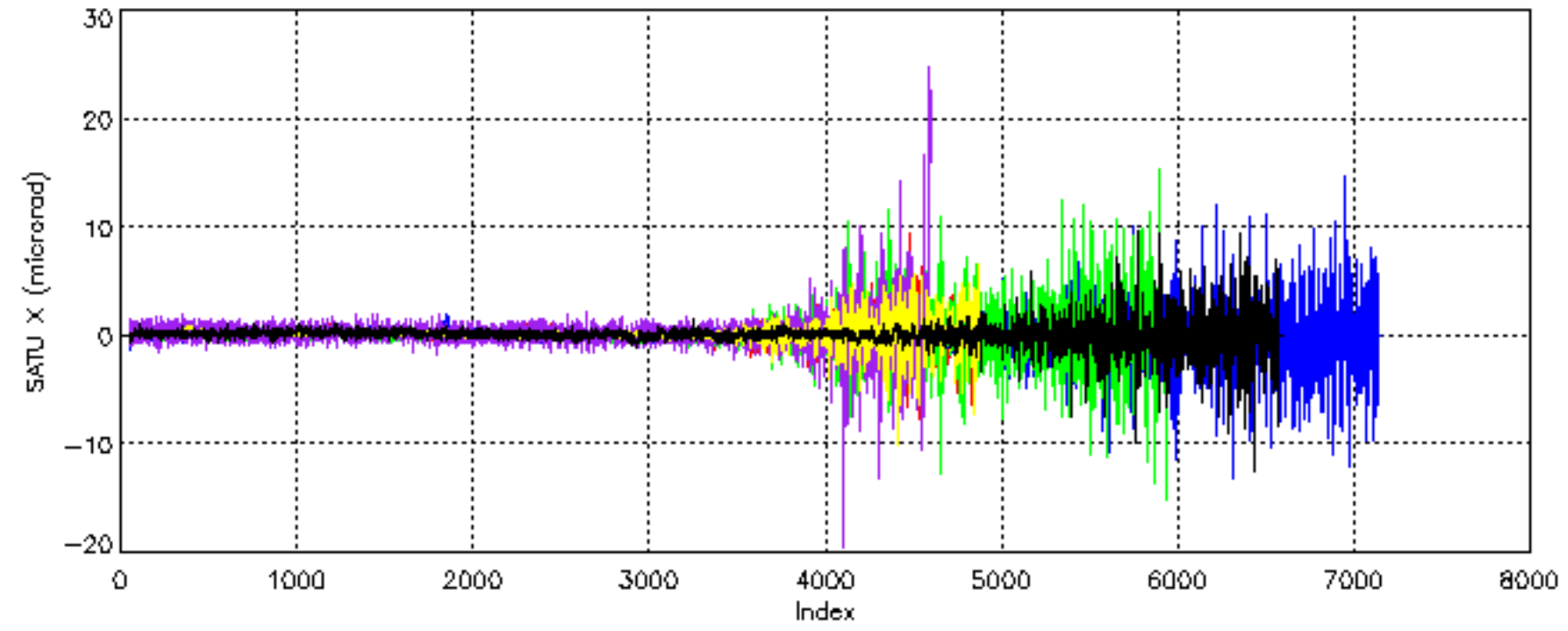


Tangent altitude at which the star is lost

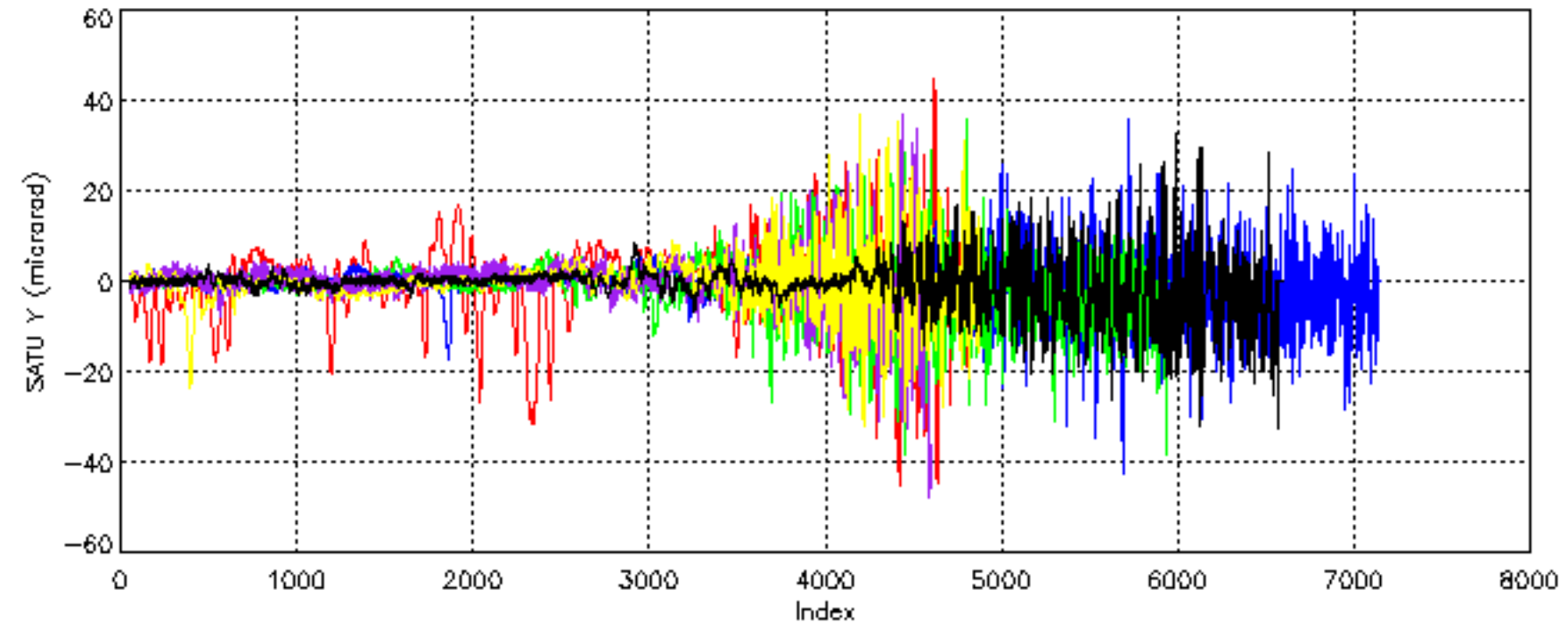


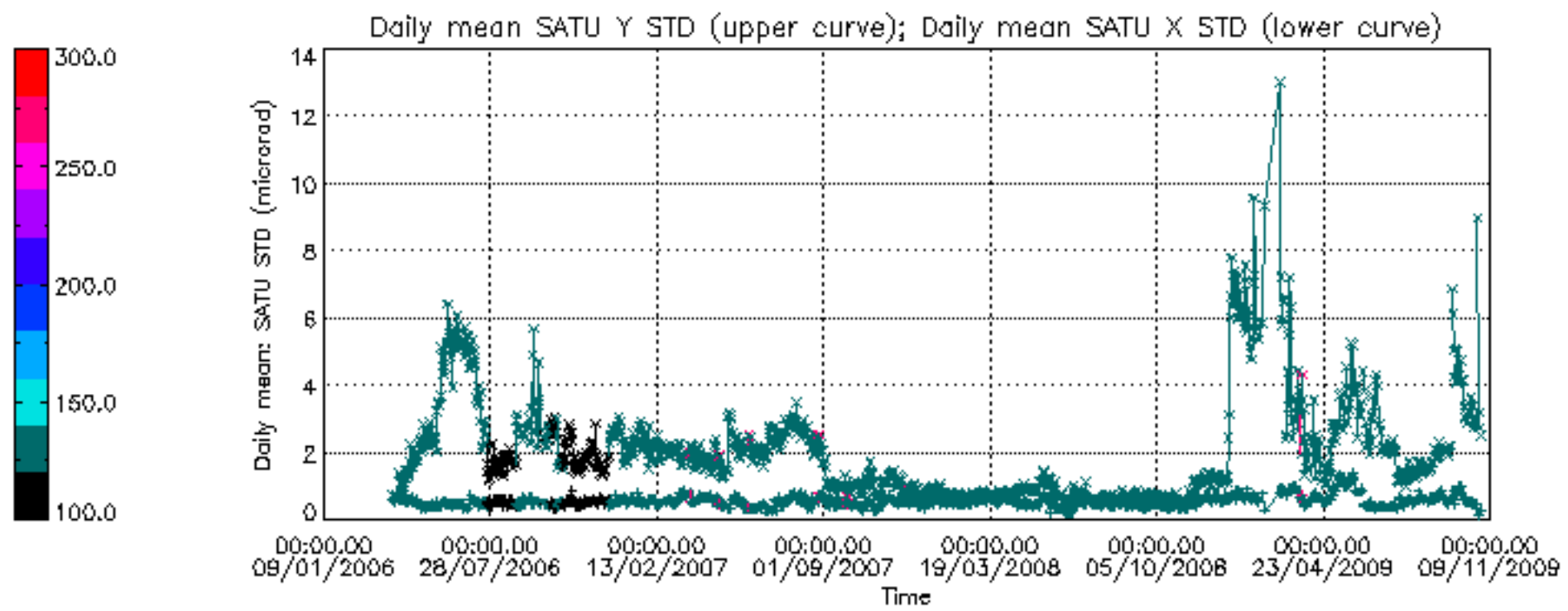
Tangent altitude at which the star is lost











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5; 305.4; 01-OCT-2009 00:22:27; Dark ; 52.5; 108; Alp Col ; 2.65; 15200;occ; 105; 0;39664
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4; 113.2; 01-OCT-2009 22:07:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39677
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2; 2569.4; 26-OCT-2009 04:35:46; Bright; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;40024
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2; 123.6; 26-OCT-2009 07:16:12; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;40026
3; 270.7; 26-OCT-2009 07:18:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40026
4; 459.6; 26-OCT-2009 07:21:48; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;40026
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4; 6309.4; 26-OCT-2009 12:20:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40028
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3; 5407.6; 26-OCT-2009 13:46:04; Dark ; 19.5; 48; 30Alp Hya ; 1.98; 4100;occ; 39; 0;40029
4; 6163.3; 26-OCT-2009 13:58:40; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;40029
5; 6310.4; 26-OCT-2009 14:01:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40029
6; 6499.0; 26-OCT-2009 14:04:15; Dark ; 49.0; 2; Alp Car ;-0.74; 7000;occ; 98; 0;40029
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2; 2686.9; 26-OCT-2009 14:41:19; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;40030
3; 4894.8; 26-OCT-2009 15:18:07; Bright; 43.5; 22; 32Alp Leo ; 1.36; 15200;occ; 87; 0;40030
4; 6311.4; 26-OCT-2009 15:41:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40030
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2; 2685.9; 26-OCT-2009 18:02:30; Bright; 25.5; 73; 57Gam1And ; 2.26; 13100;occ; 51; 0;40032
3; 6313.3; 26-OCT-2009 19:02:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40032
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3; 278.2; 26-OCT-2009 20:43:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40034
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2; 2681.2; 27-OCT-2009 15:50:12; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;40045
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2; 298.0; 28-OCT-2009 07:56:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40055

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