

# GOMOS Daily Report 23-OCT-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	26OCT2009 08:58:49
Data source version	GOMOS/5.00L03
Start time of products	23OCT2009 00:03:07
Stop time of products	23OCT2009 21:11:32
Store outputs in DB	Yes
Nb of level 1b prods	5
Nb of prods with errors	0

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

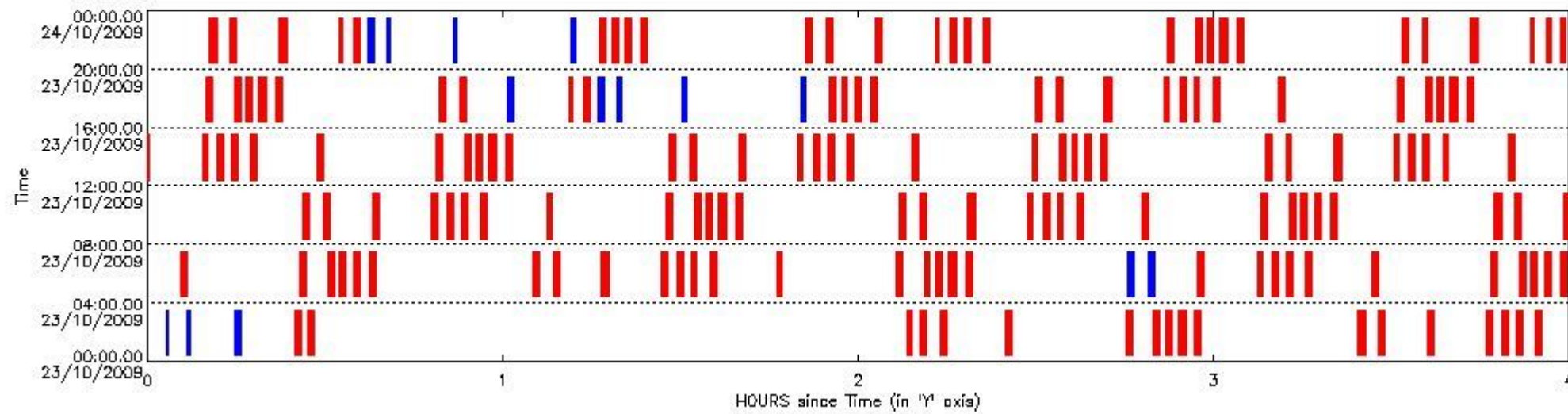
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
23-OCT-2009 00:24:47	15RhoPup	132	39978
23-OCT-2009 00:26:59	ZetPup	70	39979
23-OCT-2009 02:08:05	Gam2Vel	34	39980
23-OCT-2009 02:10:29	DSA1055	0	39980
23-OCT-2009 02:13:44	AlpCar	2	39980
23-OCT-2009 02:24:54	The1Eri	157	39980
23-OCT-2009 02:45:06	6BetAri	105	39980
23-OCT-2009 02:49:50	4BetTri	173	39980
23-OCT-2009 02:51:49	57Gam1And	73	39980
23-OCT-2009 02:54:01	26BetPer	79	39980
23-OCT-2009 02:56:49	23GamPer	160	39980
23-OCT-2009 03:24:24	17EpsLeo	166	39980
23-OCT-2009 03:27:52	32AlpLeo	22	39980
23-OCT-2009 03:35:59	30AlpHya	48	39980
23-OCT-2009 03:46:02	15RhoPup	132	39980

23-OCT-2009 03:48:42	Gam2Vel	34	39981
23-OCT-2009 03:51:05	DSA1055	0	39981
23-OCT-2009 03:54:20	AlpCar	2	39981
23-OCT-2009 04:05:30	The1Eri	157	39981
23-OCT-2009 04:25:41	6BetAri	105	39981
23-OCT-2009 04:30:26	4BetTri	173	39981
23-OCT-2009 04:32:24	57Gam1And	73	39981
23-OCT-2009 04:34:36	26BetPer	79	39981
23-OCT-2009 04:37:24	23GamPer	160	39981
23-OCT-2009 05:05:01	17EpsLeo	166	39981
23-OCT-2009 05:08:28	32AlpLeo	22	39981
23-OCT-2009 05:16:36	30AlpHya	48	39981
23-OCT-2009 05:26:39	15RhoPup	132	39981
23-OCT-2009 05:29:18	Gam2Vel	34	39982
23-OCT-2009 05:31:42	DSA1055	0	39982
23-OCT-2009 05:34:57	AlpCar	2	39982
23-OCT-2009 05:46:07	The1Eri	157	39982
23-OCT-2009 06:06:17	6BetAri	105	39982
23-OCT-2009 06:11:01	4BetTri	173	39982
23-OCT-2009 06:13:00	57Gam1And	73	39982
23-OCT-2009 06:15:11	26BetPer	79	39982
23-OCT-2009 06:17:59	23GamPer	160	39982
23-OCT-2009 06:57:13	30AlpHya	48	39982
23-OCT-2009 07:07:17	15RhoPup	132	39982
23-OCT-2009 07:09:55	Gam2Vel	34	39983
23-OCT-2009 07:12:19	DSA1055	0	39983
23-OCT-2009 07:15:34	AlpCar	2	39983
23-OCT-2009 07:26:43	The1Eri	157	39983
23-OCT-2009 07:46:52	6BetAri	105	39983
23-OCT-2009 07:51:37	4BetTri	173	39983
23-OCT-2009 07:53:35	57Gam1And	73	39983
23-OCT-2009 07:55:46	26BetPer	79	39983
23-OCT-2009 07:58:35	23GamPer	160	39983
23-OCT-2009 08:26:13	17EpsLeo	166	39983
23-OCT-2009 08:29:41	32AlpLeo	22	39983
23-OCT-2009 08:37:50	30AlpHya	48	39983
23-OCT-2009 08:47:54	15RhoPup	132	39983
23-OCT-2009 08:50:32	Gam2Vel	34	39984
23-OCT-2009 08:52:56	DSA1055	0	39984
23-OCT-2009 08:56:11	AlpCar	2	39984
23-OCT-2009 09:07:19	The1Eri	157	39984
23-OCT-2009 09:27:28	6BetAri	105	39984
23-OCT-2009 09:32:12	4BetTri	173	39984
23-OCT-2009 09:34:11	57Gam1And	73	39984
23-OCT-2009 09:36:21	26BetPer	79	39984
23-OCT-2009 09:39:10	23GamPer	160	39984
23-OCT-2009 10:06:49	17EpsLeo	166	39984
23-OCT-2009 10:10:18	32AlpLeo	22	39984
23-OCT-2009 10:18:27	30AlpHya	48	39984
23-OCT-2009 10:28:32	15RhoPup	132	39984
23-OCT-2009 10:31:09	Gam2Vel	34	39985
23-OCT-2009 10:33:33	DSA1055	0	39985
23-OCT-2009 10:36:47	AlpCar	2	39985
23-OCT-2009 10:47:56	The1Eri	157	39985
23-OCT-2009 11:08:03	6BetAri	105	39985
23-OCT-2009 11:12:48	4BetTri	173	39985
23-OCT-2009 11:14:46	57Gam1And	73	39985
23-OCT-2009 11:16:56	26BetPer	79	39985
23-OCT-2009 11:19:45	23GamPer	160	39985

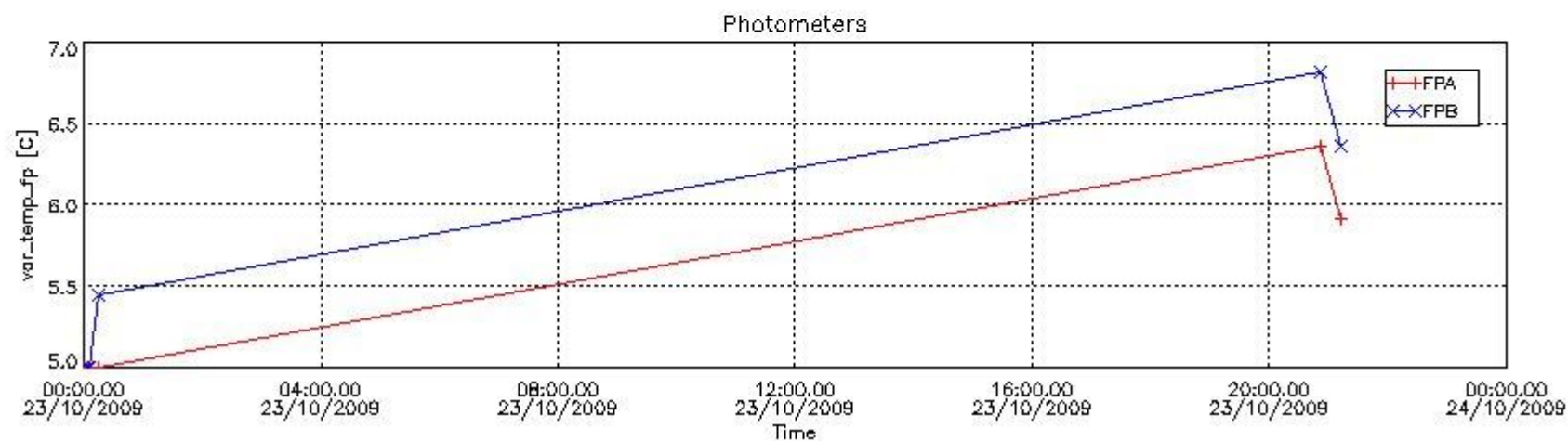
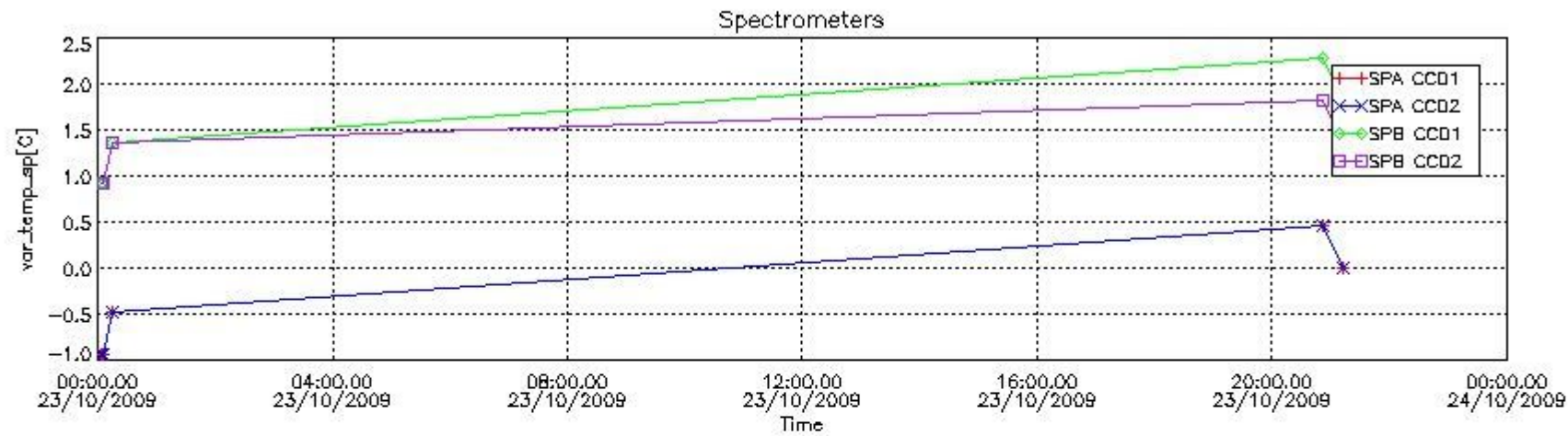
23-OCT-2009 11:47:26	17EpsLeo	166	39985
23-OCT-2009 11:50:54	32AlpLeo	22	39985
23-OCT-2009 11:59:04	30AlpHya	48	39985
23-OCT-2009 12:09:10	15RhoPup	132	39985
23-OCT-2009 12:11:46	Gam2Vel	34	39986
23-OCT-2009 12:14:10	DSA1055	0	39986
23-OCT-2009 12:17:24	AlpCar	2	39986
23-OCT-2009 12:28:32	The1Eri	157	39986
23-OCT-2009 12:48:39	6BetAri	105	39986
23-OCT-2009 12:53:23	4BetTri	173	39986
23-OCT-2009 12:55:21	57Gam1And	73	39986
23-OCT-2009 12:57:31	26BetPer	79	39986
23-OCT-2009 13:00:20	23GamPer	160	39986
23-OCT-2009 13:28:02	17EpsLeo	166	39986
23-OCT-2009 13:31:30	32AlpLeo	22	39986
23-OCT-2009 13:39:41	30AlpHya	48	39986
23-OCT-2009 13:49:47	15RhoPup	132	39986
23-OCT-2009 13:52:22	Gam2Vel	34	39987
23-OCT-2009 13:54:47	DSA1055	0	39987
23-OCT-2009 13:58:01	AlpCar	2	39987
23-OCT-2009 14:09:08	The1Eri	157	39987
23-OCT-2009 14:29:15	6BetAri	105	39987
23-OCT-2009 14:33:58	4BetTri	173	39987
23-OCT-2009 14:35:57	57Gam1And	73	39987
23-OCT-2009 14:38:06	26BetPer	79	39987
23-OCT-2009 14:40:56	23GamPer	160	39987
23-OCT-2009 15:08:38	17EpsLeo	166	39987
23-OCT-2009 15:12:07	32AlpLeo	22	39987
23-OCT-2009 15:20:17	30AlpHya	48	39987
23-OCT-2009 15:30:25	15RhoPup	132	39987
23-OCT-2009 15:32:59	Gam2Vel	34	39988
23-OCT-2009 15:35:23	DSA1055	0	39988
23-OCT-2009 15:38:37	AlpCar	2	39988
23-OCT-2009 15:49:45	The1Eri	157	39988
23-OCT-2009 16:09:50	6BetAri	105	39988
23-OCT-2009 16:14:34	4BetTri	173	39988
23-OCT-2009 16:16:32	57Gam1And	73	39988
23-OCT-2009 16:18:41	26BetPer	79	39988
23-OCT-2009 16:21:31	23GamPer	160	39988
23-OCT-2009 16:49:14	17EpsLeo	166	39988
23-OCT-2009 16:52:43	32AlpLeo	22	39988
23-OCT-2009 17:11:02	15RhoPup	132	39988
23-OCT-2009 17:13:36	Gam2Vel	34	39989
23-OCT-2009 17:55:09	4BetTri	173	39989
23-OCT-2009 17:57:08	57Gam1And	73	39989
23-OCT-2009 17:59:17	26BetPer	79	39989
23-OCT-2009 18:02:06	23GamPer	160	39989
23-OCT-2009 18:29:51	17EpsLeo	166	39989
23-OCT-2009 18:33:19	32AlpLeo	22	39989
23-OCT-2009 18:41:31	30AlpHya	48	39989
23-OCT-2009 18:51:40	15RhoPup	132	39989
23-OCT-2009 18:54:13	Gam2Vel	34	39990
23-OCT-2009 18:56:37	DSA1055	0	39990
23-OCT-2009 18:59:51	AlpCar	2	39990
23-OCT-2009 19:10:57	The1Eri	157	39990
23-OCT-2009 19:31:01	6BetAri	105	39990
23-OCT-2009 19:35:45	4BetTri	173	39990
23-OCT-2009 19:37:43	57Gam1And	73	39990
23-OCT-2009 19:39:52	26BetPer	79	39990

23-OCT-2009 19:42:42	23GamPer	160	39990
23-OCT-2009 20:10:27	17EpsLeo	166	39990
23-OCT-2009 20:13:56	32AlpLeo	22	39990
23-OCT-2009 20:22:08	30AlpHya	48	39990
23-OCT-2009 20:32:17	15RhoPup	132	39990
23-OCT-2009 20:34:49	Gam2Vel	34	39991
23-OCT-2009 21:16:20	4BetTri	173	39991
23-OCT-2009 21:18:19	57Gam1And	73	39991
23-OCT-2009 21:20:27	26BetPer	79	39991
23-OCT-2009 21:23:17	23GamPer	160	39991
23-OCT-2009 21:51:03	17EpsLeo	166	39991
23-OCT-2009 21:54:32	32AlpLeo	22	39991
23-OCT-2009 22:02:45	30AlpHya	48	39991
23-OCT-2009 22:12:55	15RhoPup	132	39991
23-OCT-2009 22:15:26	Gam2Vel	34	39992
23-OCT-2009 22:17:51	DSA1055	0	39992
23-OCT-2009 22:21:04	AlpCar	2	39992
23-OCT-2009 22:52:13	6BetAri	105	39992
23-OCT-2009 22:56:56	4BetTri	173	39992
23-OCT-2009 22:58:54	57Gam1And	73	39992
23-OCT-2009 23:01:02	26BetPer	79	39992
23-OCT-2009 23:03:52	23GamPer	160	39992
23-OCT-2009 23:31:39	17EpsLeo	166	39992
23-OCT-2009 23:35:09	32AlpLeo	22	39992
23-OCT-2009 23:43:22	30AlpHya	48	39992
23-OCT-2009 23:53:33	15RhoPup	132	39992
23-OCT-2009 23:56:03	Gam2Vel	34	39993
23-OCT-2009 23:58:28	DSA1055	0	39993

#### 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_1PNPDE20091023_000307_000000122083_00345_39978_1687.N1	23-OCT-2009 00:03:07	Straylight	12.000	166	17Eps Leo	2.9800	6000.0	24	39978	No
2	GOM_TRA_1PNPDE20091023_000634_000000362083_00345_39978_1688.N1	23-OCT-2009 00:06:34	Bright	35.500	22	32Alp Leo	1.3600	15200.	71	39978	No
3	GOM_TRA_1PNPDE20091023_001441_000000582083_00345_39978_1693.N1	23-OCT-2009 00:14:41	Dark	58.000	48	30Alp Hya	1.9770	4100.0	116	39978	No
4	GOM_TRA_1PNPDE20091023_205133_000000402083_00358_39991_1762.N1	23-OCT-2009 20:51:33	Straylight	39.500	157	The1Eri	2.9060	9300.0	79	39991	No
5	GOM_TRA_1PNPDE20091023_211132_000000422083_00358_39991_1763.N1	23-OCT-2009 21:11:32	Bright	42.000	105	6Bet Ari	2.6450	8900.0	84	39991	No

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



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

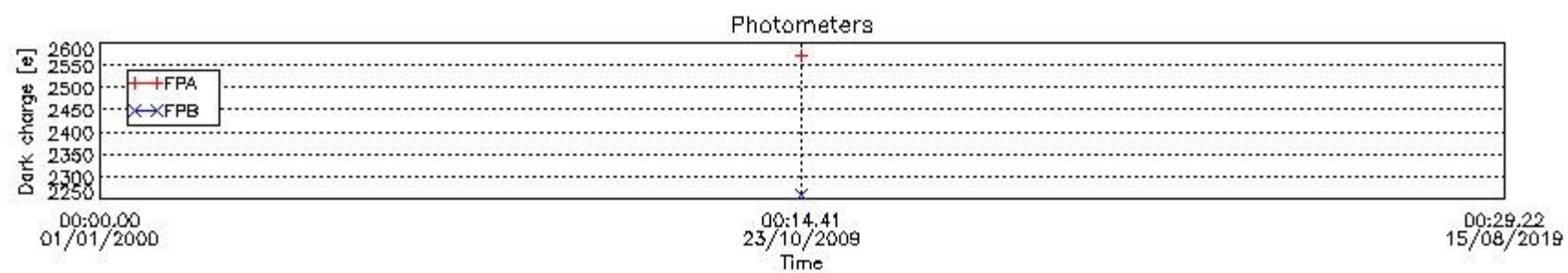
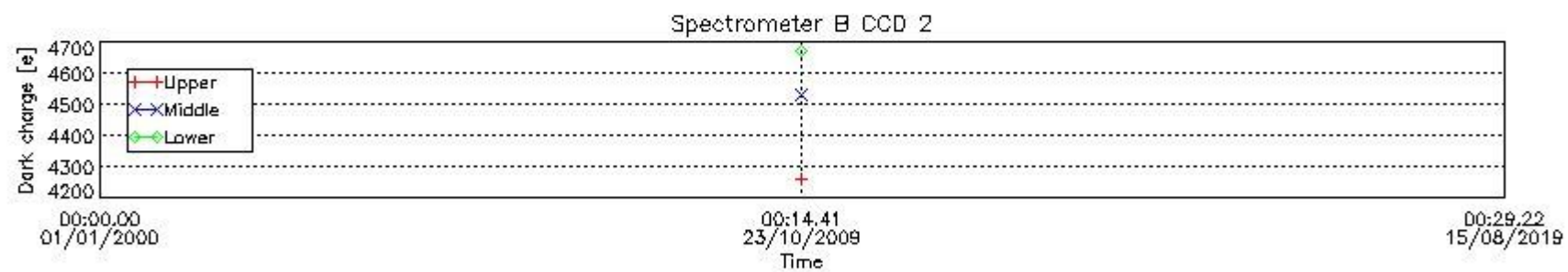
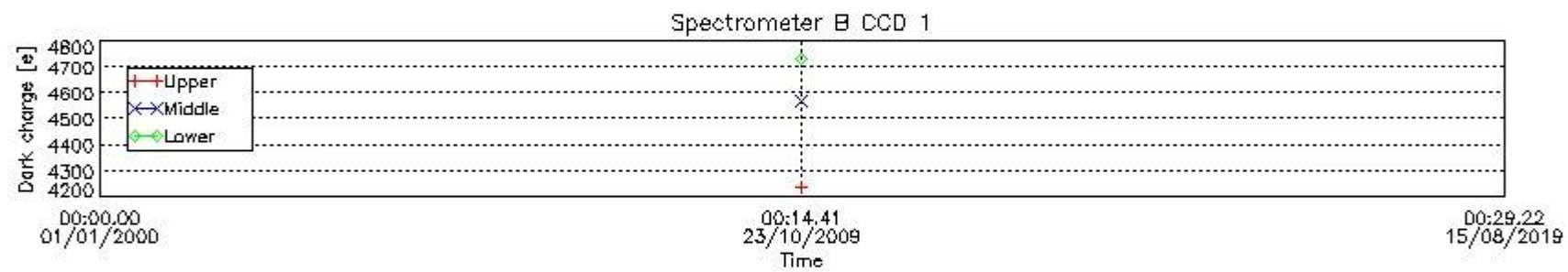
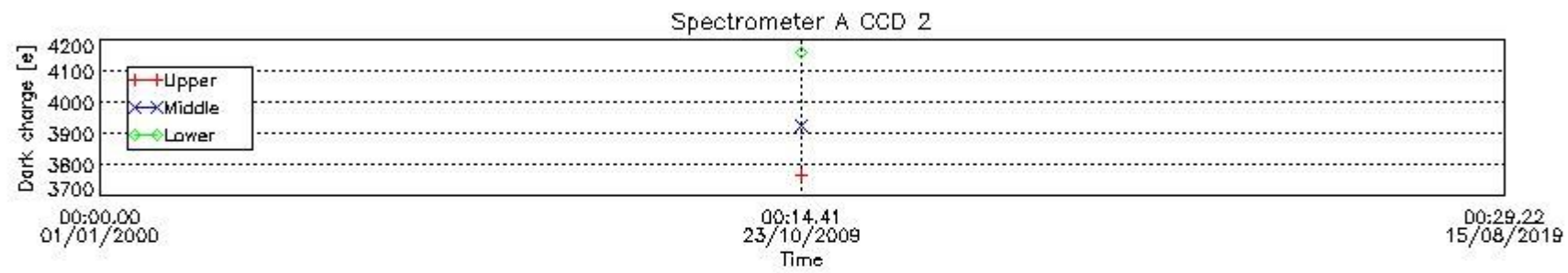
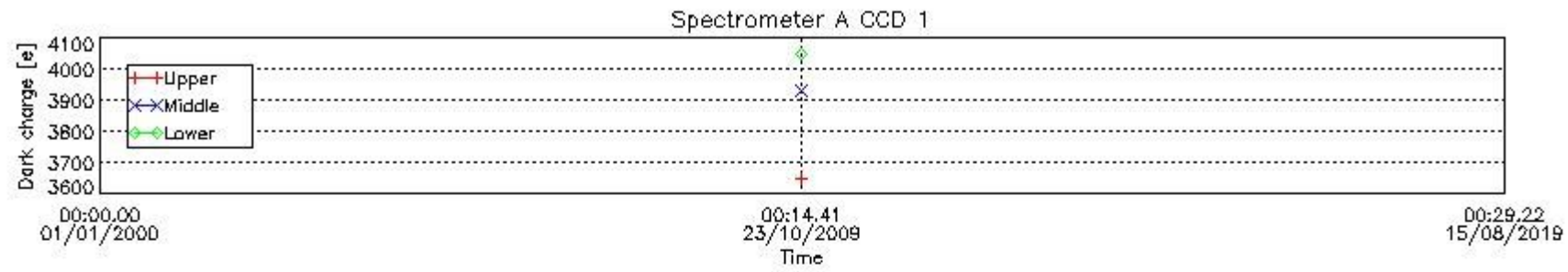
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20091023_000307_000000122083_00345_39978_1687.N1	DC map used
GOM_TRA_1PNPDE20091023_000634_000000362083_00345_39978_1688.N1	DC map used
GOM_TRA_1PNPDE20091023_001441_000000582083_00345_39978_1693.N1	DC map used
GOM_TRA_1PNPDE20091023_205133_000000402083_00358_39991_1762.N1	DC map used
GOM_TRA_1PNPDE20091023_211132_000000422083_00358_39991_1763.N1	DC map used

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



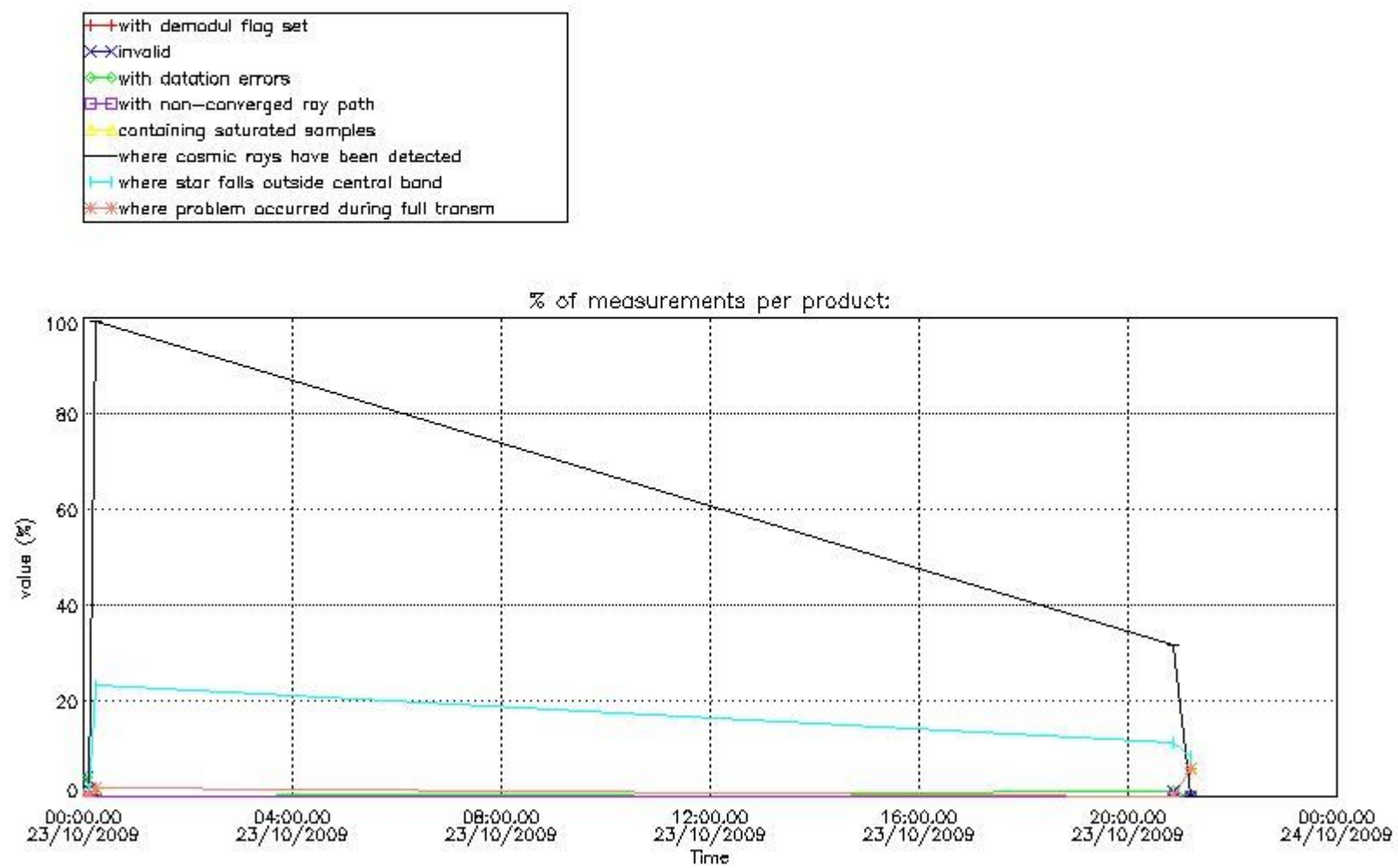
## 5. Demodulation flag and quality information monitoring

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:

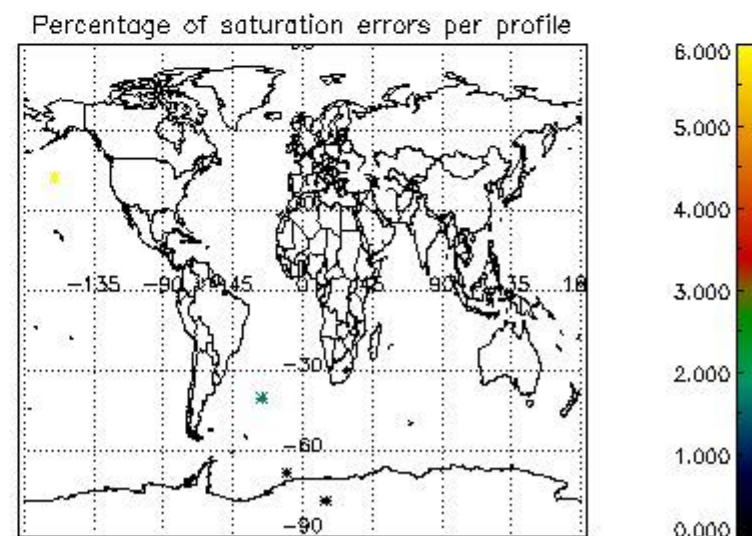
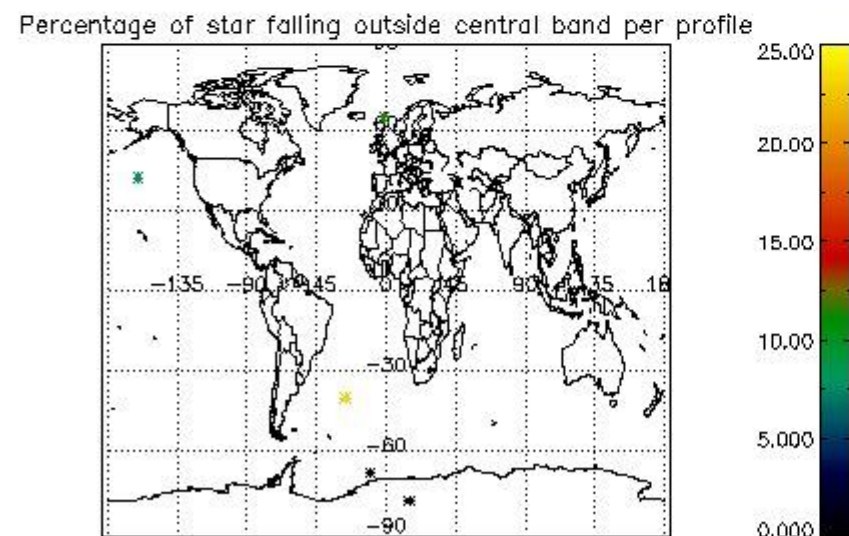
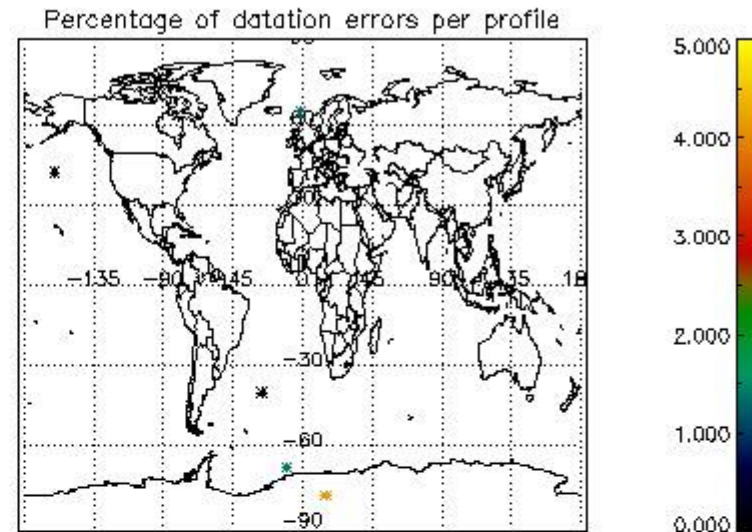
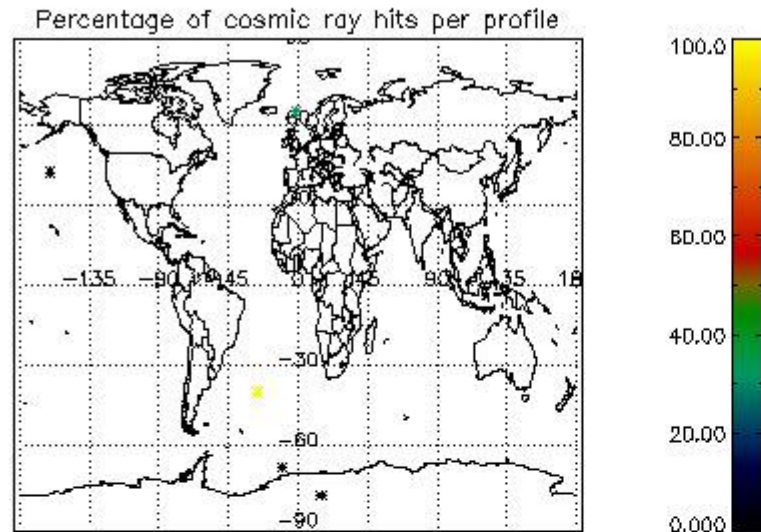
At least one measurement with demodulation flag set:	40.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





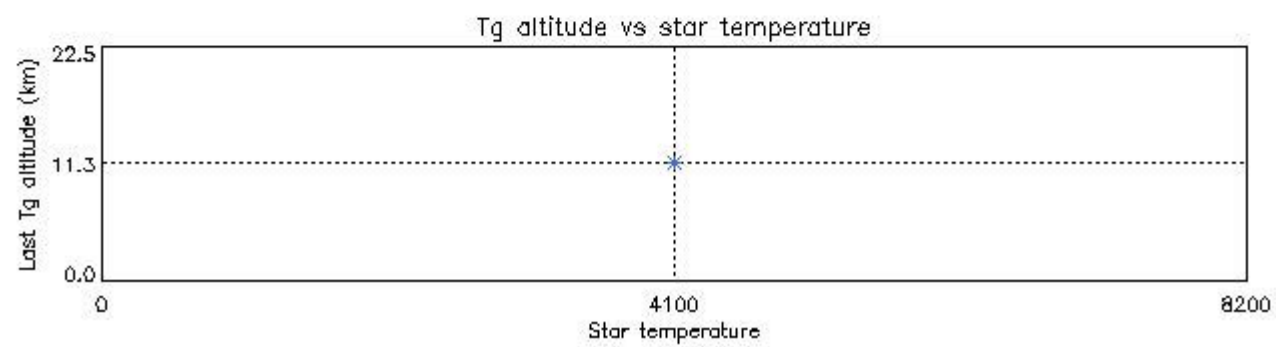
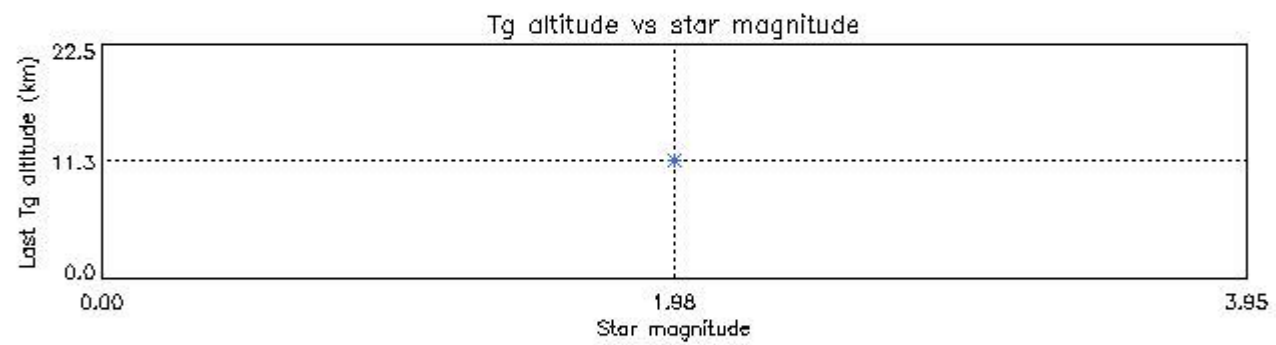
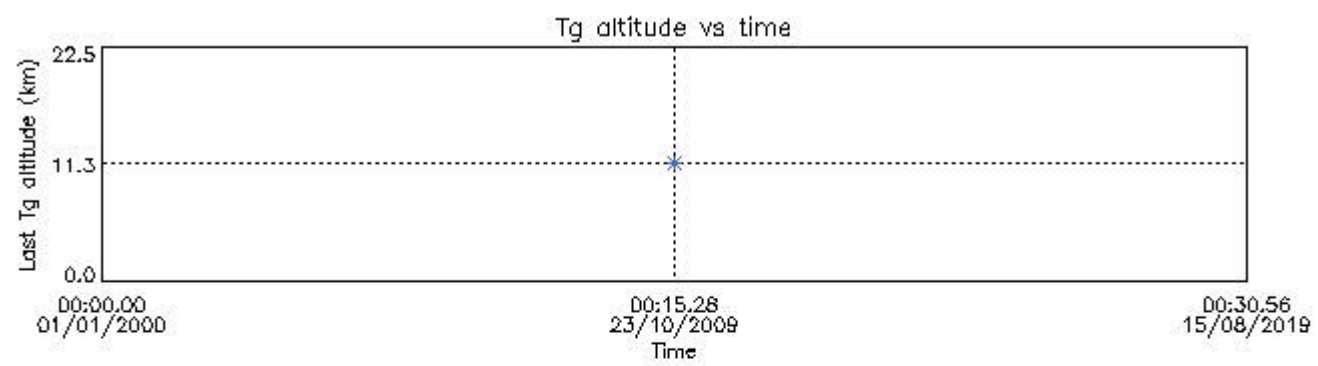
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	11.262	28.179	NaN
St. deviation:	0.0000	11.737	NaN
Maximum:	11.262	36.478	NaN
Minimum:	11.262	19.880	NaN
Number of data:	1.0000	2.0000	NaN

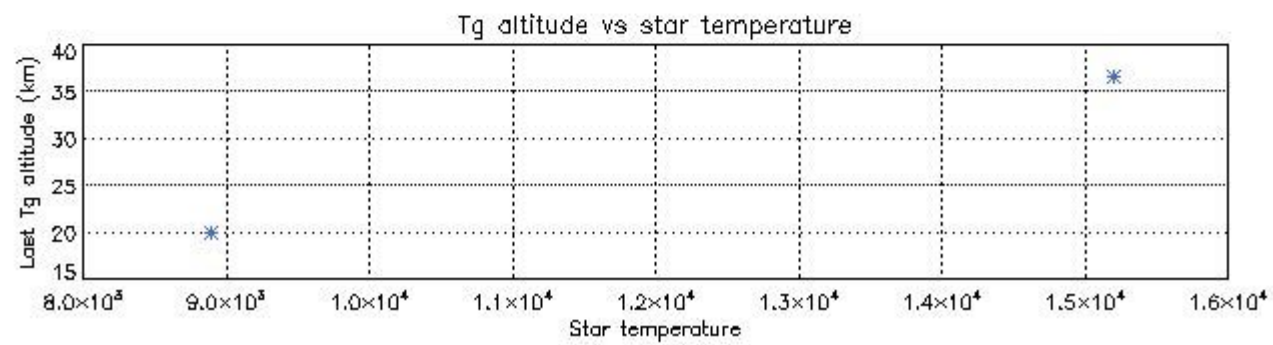
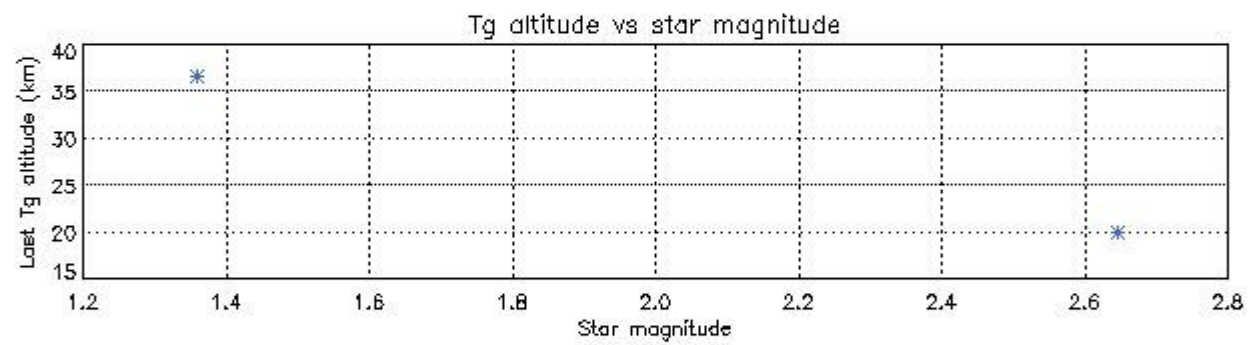
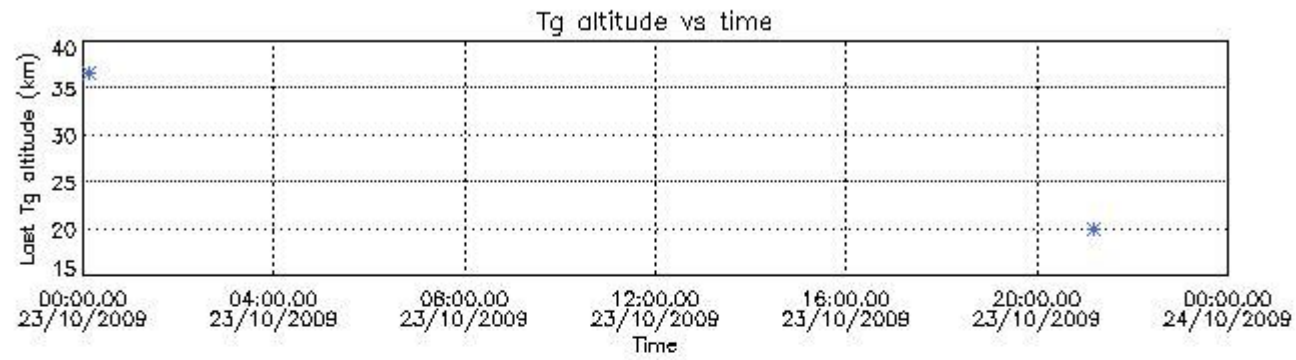
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



*6.3 Plot for BRIGHT limb products*

Tangent altitude at which the star is lost

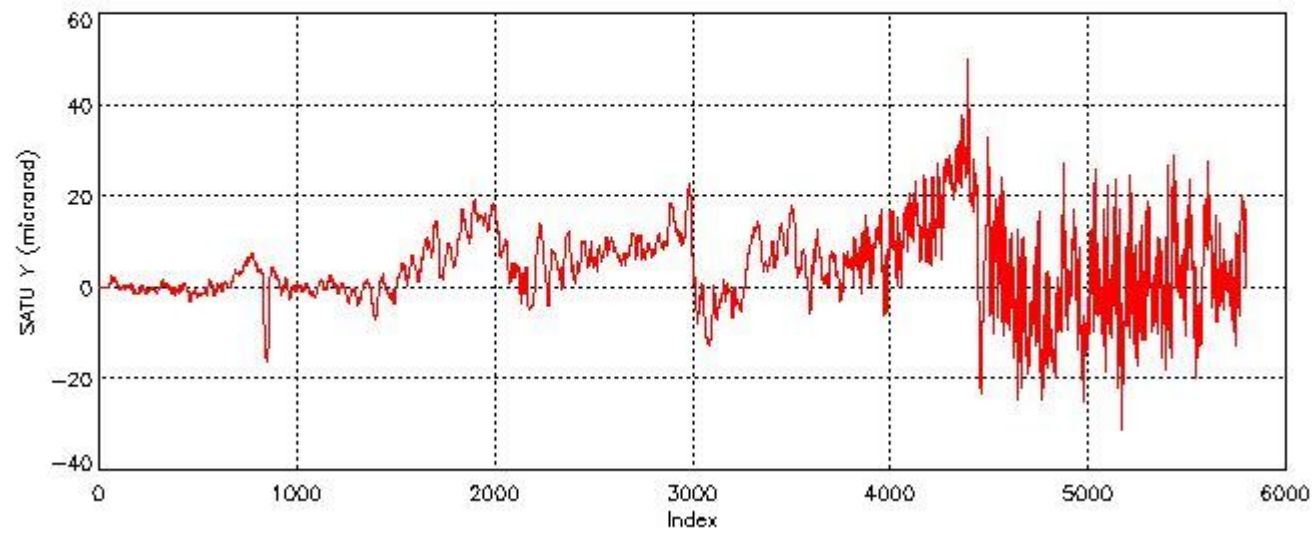
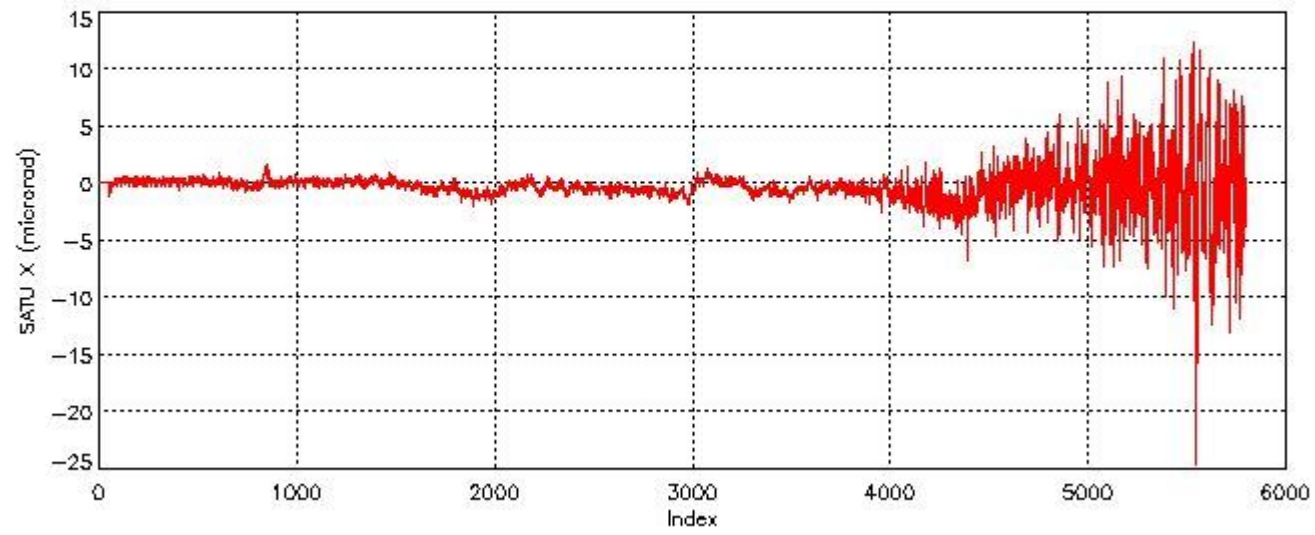


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.11843	0.17722	0.16975	0.83300
St. deviation:	0.31066	2.8637	0.84960	2.4242
Maximum:	1.6000	7.5000	4.4000	9.9000
Minimum:	-1.2000	-16.100	-3.4000	-6.9000

Number of data:	1150.0	1150.0	2000.0	2000.0
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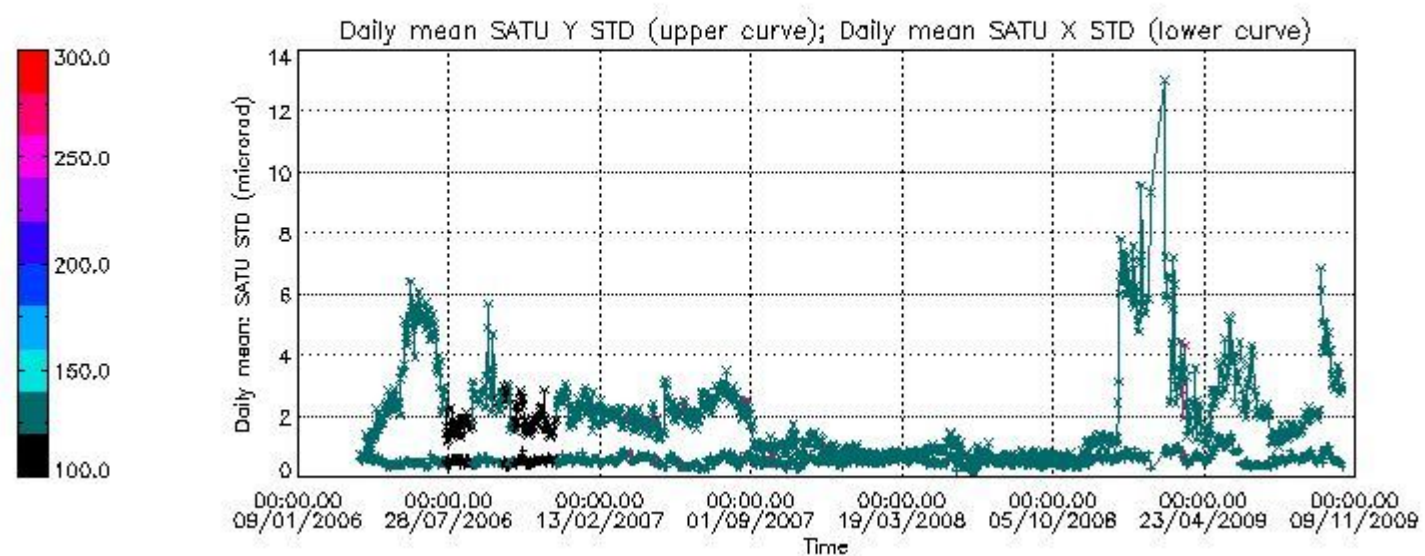
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

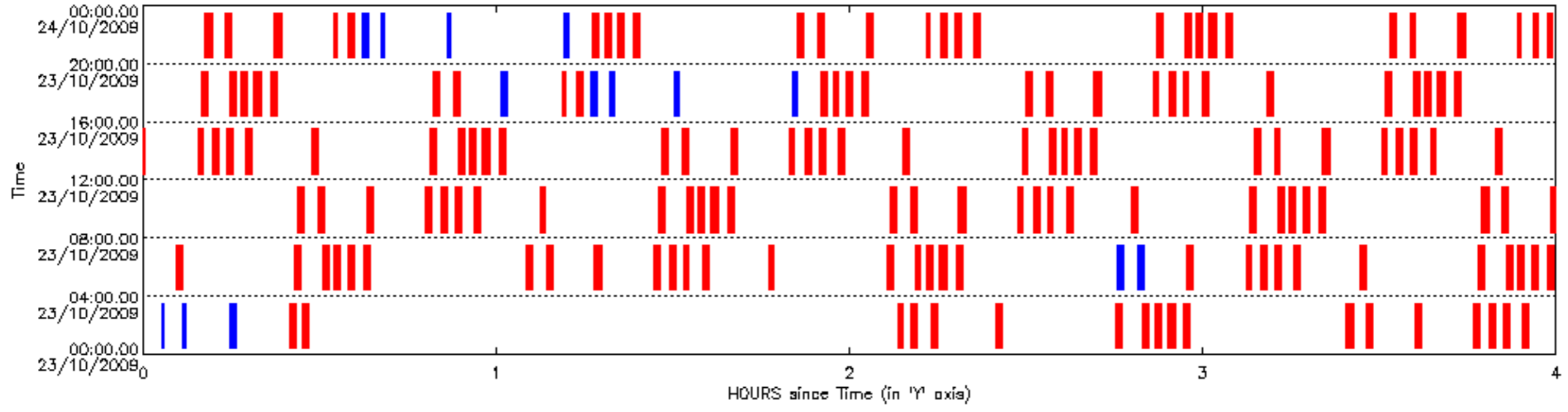
Lower curve: STD of SATU X axis

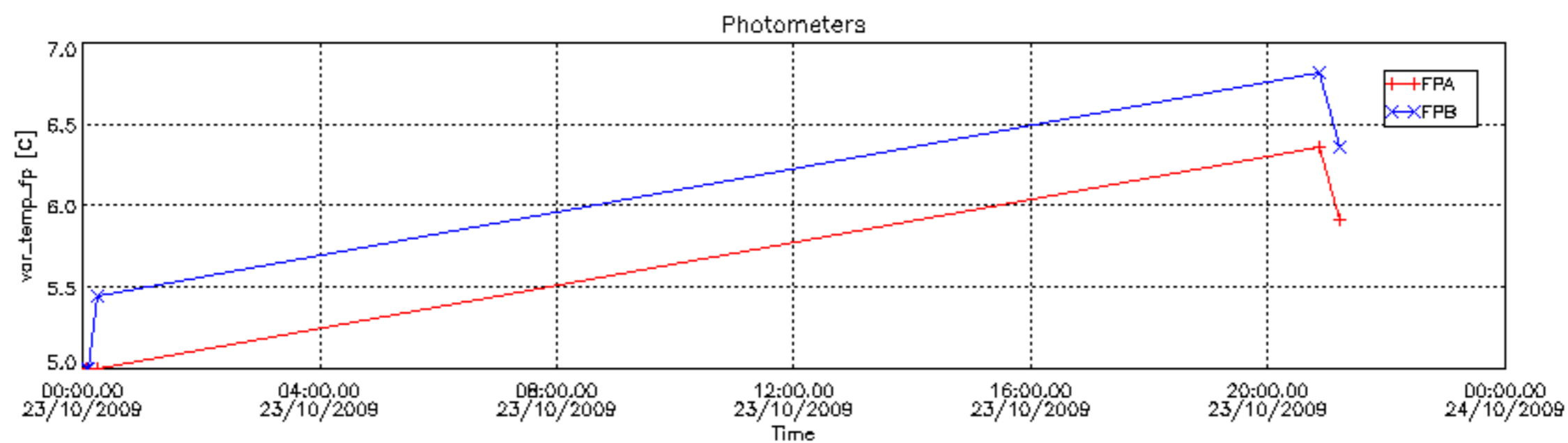
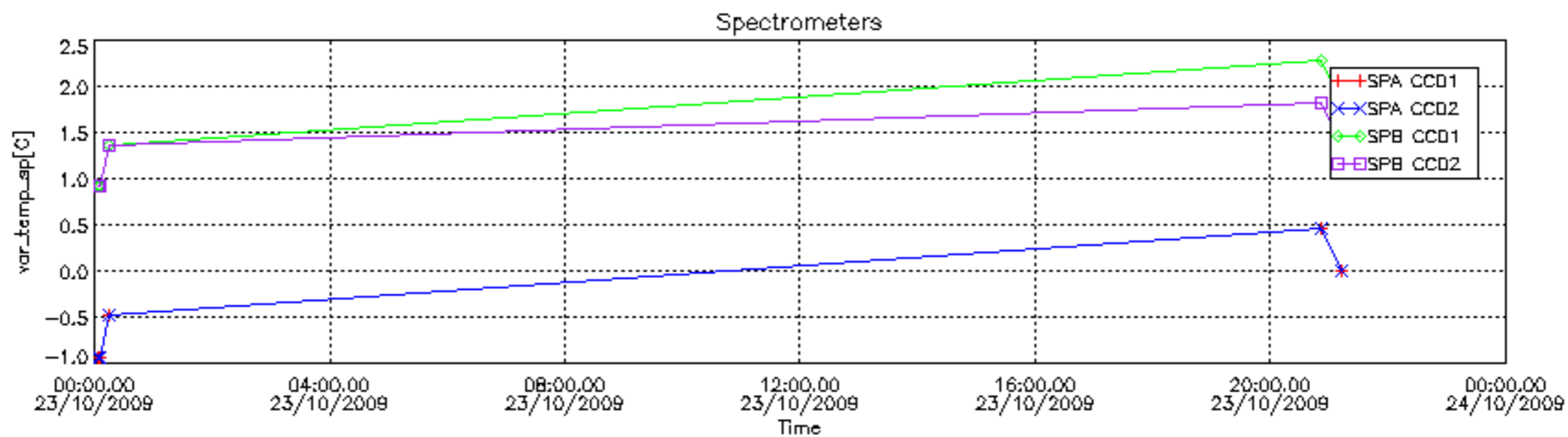


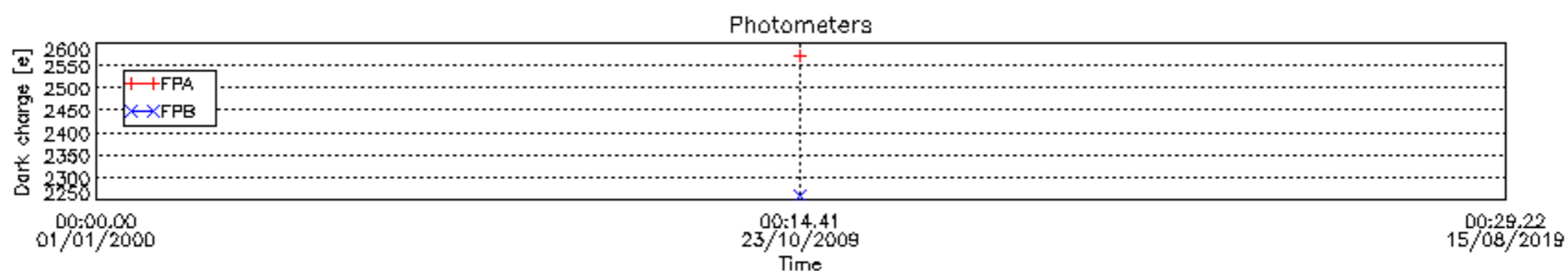
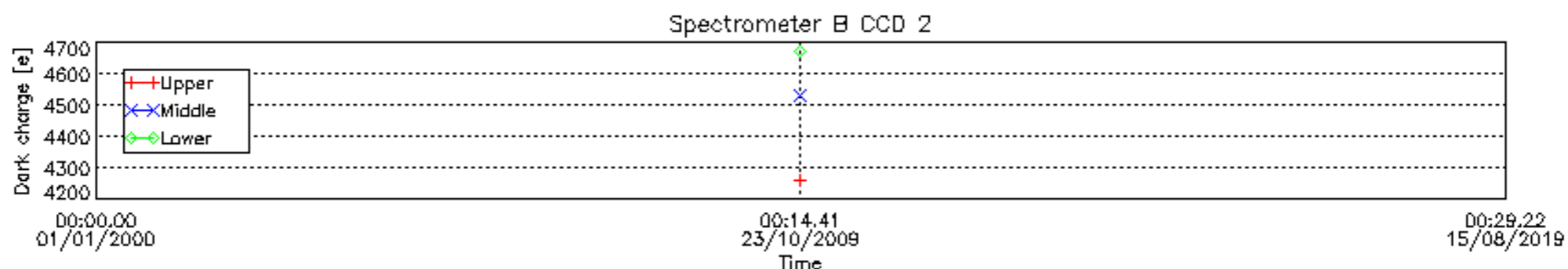
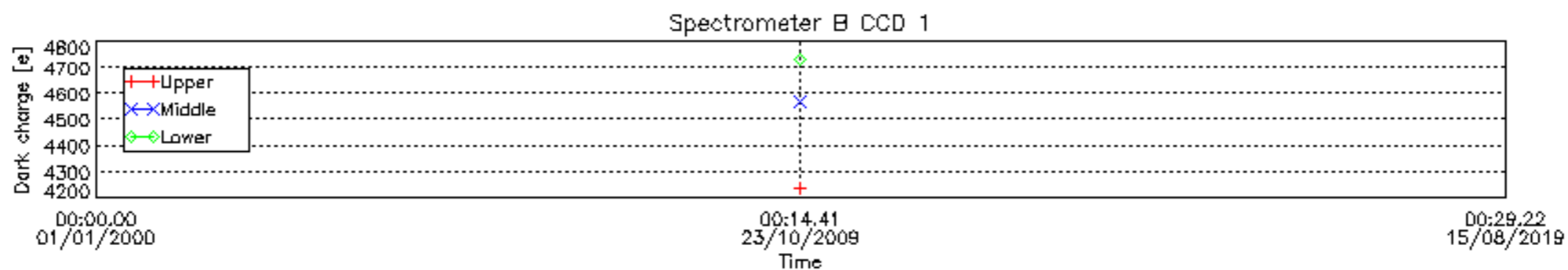
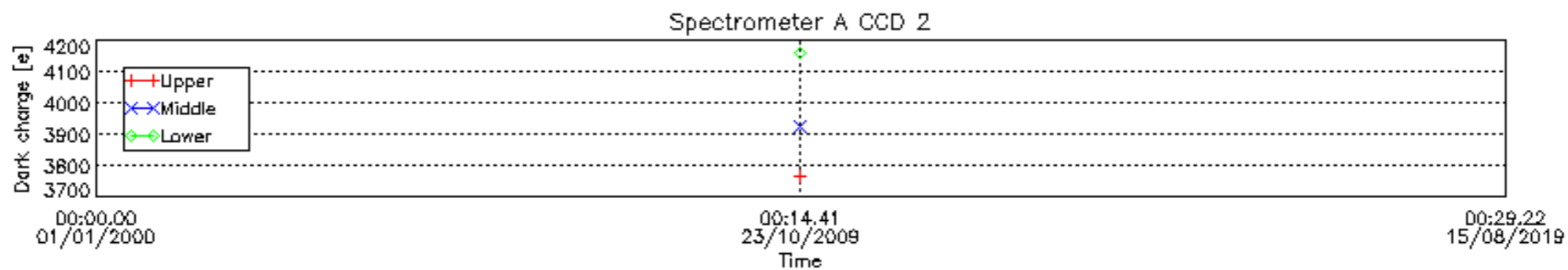
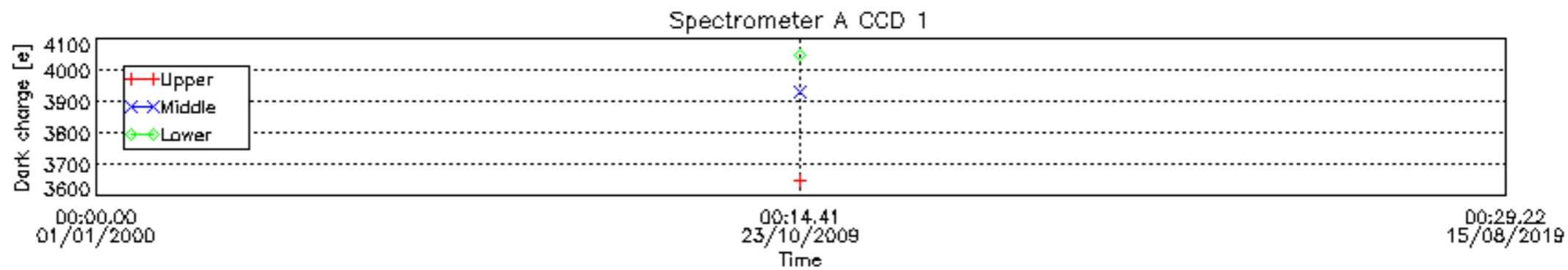
### 8. Auxiliary Data Files used for the production reported in section 2.4

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.

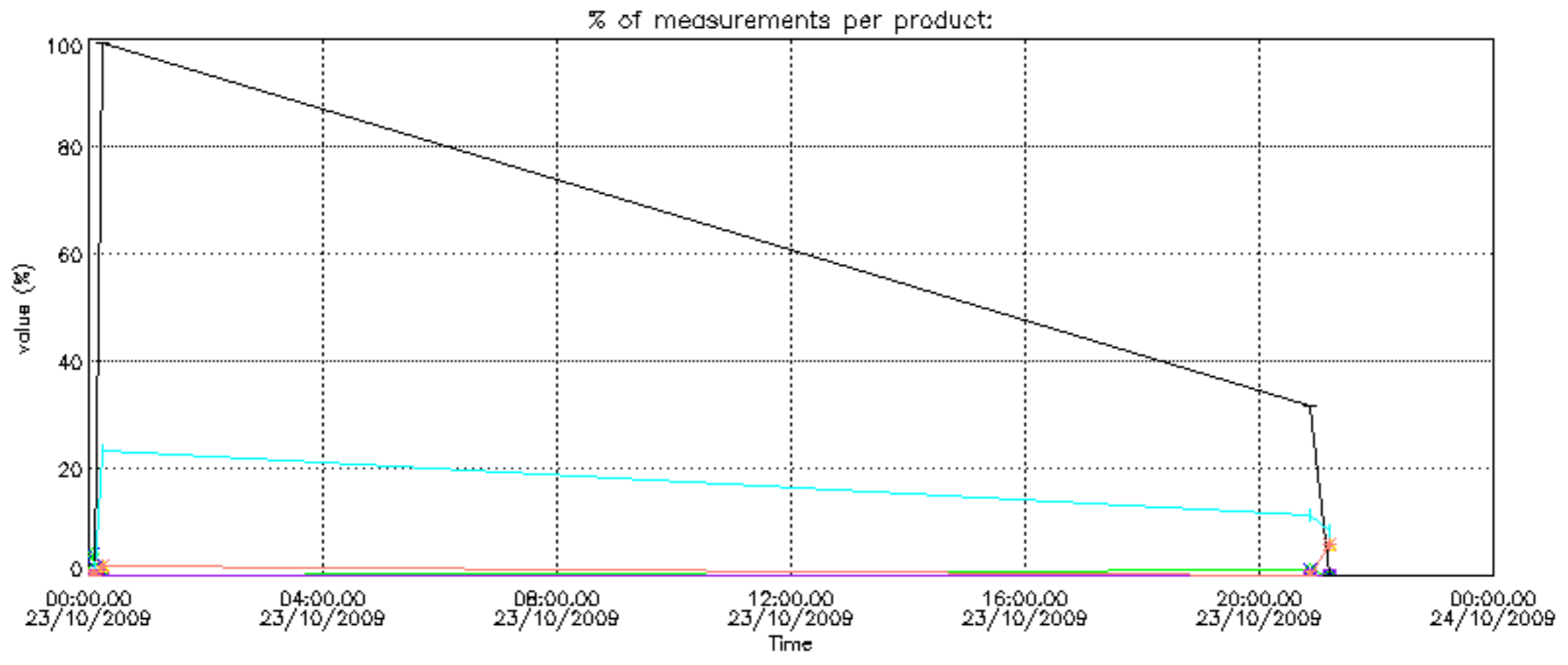
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	23-OCT-2009 00:03:07
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091021_155237_20091019_000000_20100101_000000	1	23-OCT-2009 00:03:07
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	23-OCT-2009 00:03:07
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	23-OCT-2009 00:03:07
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	23-OCT-2009 00:03:07
ECMWF_FILE	AUX_ECF_AXNECM20091022_064110_20091022_210000_20091023_090000	1	23-OCT-2009 00:03:07
ECMWF_FILE	AUX_ECF_AXNECM20091023_064110_20091023_150000_20091024_030000	4	23-OCT-2009 20:51:33
OPTIONAL_ECMWF_FILE	MISSING	1	23-OCT-2009 00:03:07
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091022_010109_20091021_195549_20091031_212203	1	23-OCT-2009 00:03:07
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091023_001111_000057382083_00345_39978_9025.N1	3	23-OCT-2009 00:14:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091023_204351_000041442083_00358_39991_9029.N1	4	23-OCT-2009 20:51:33



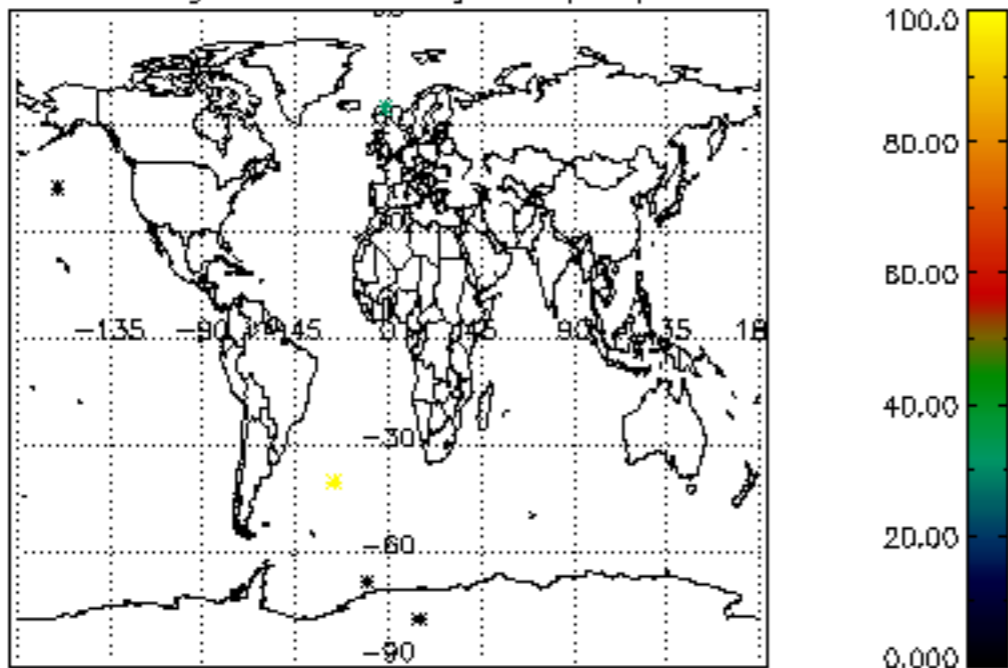




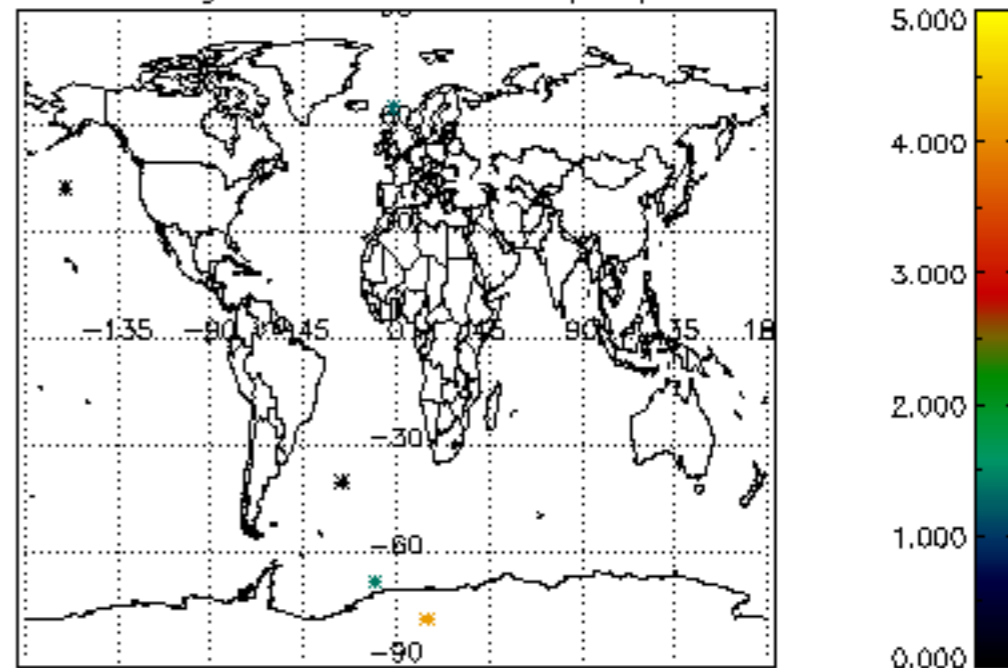




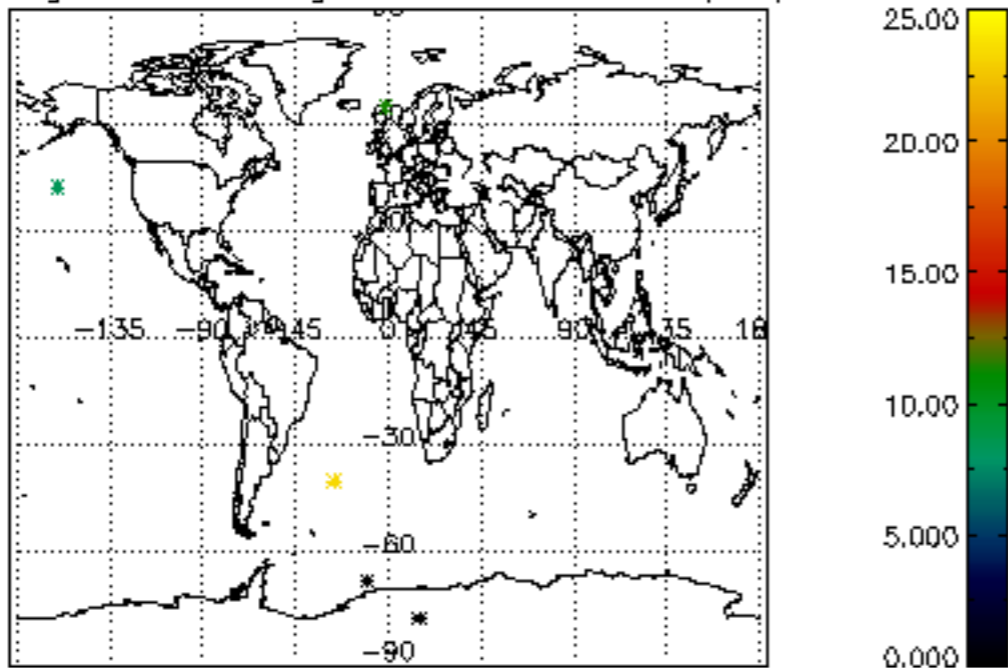
Percentage of cosmic ray hits per profile



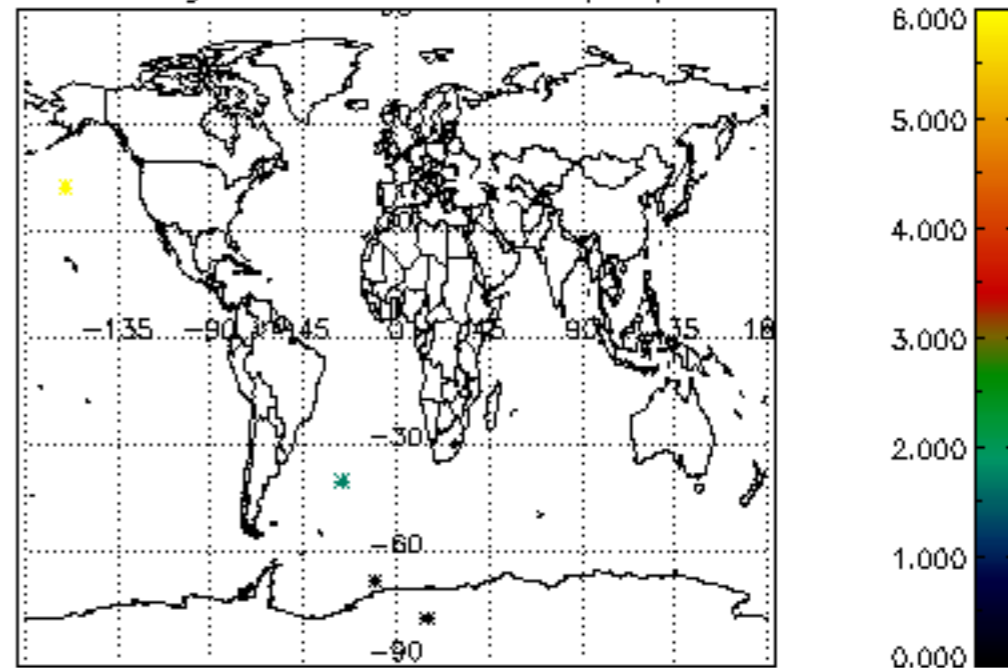
Percentage of datation errors per profile



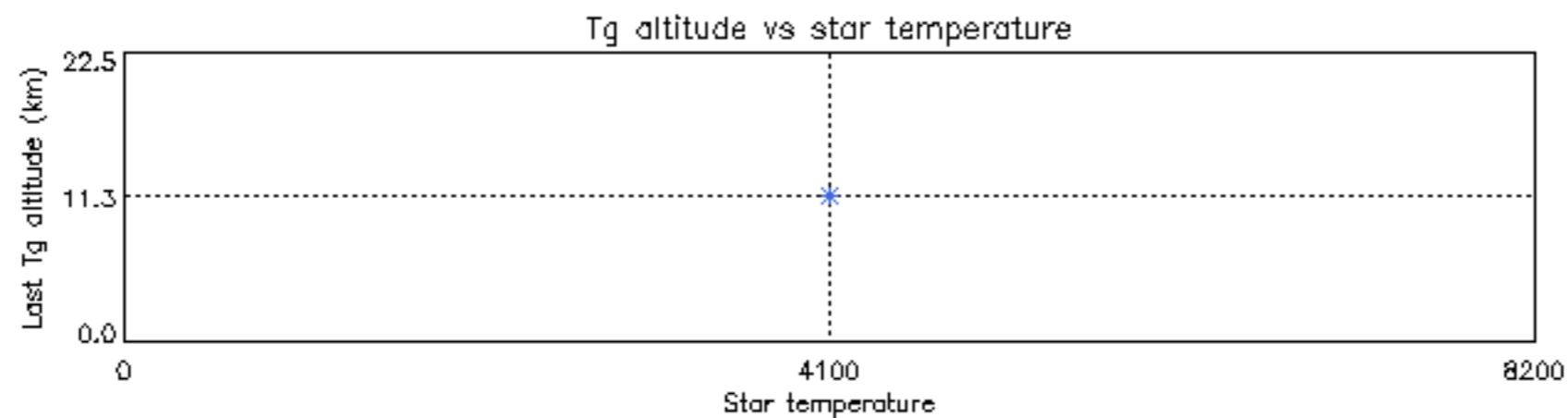
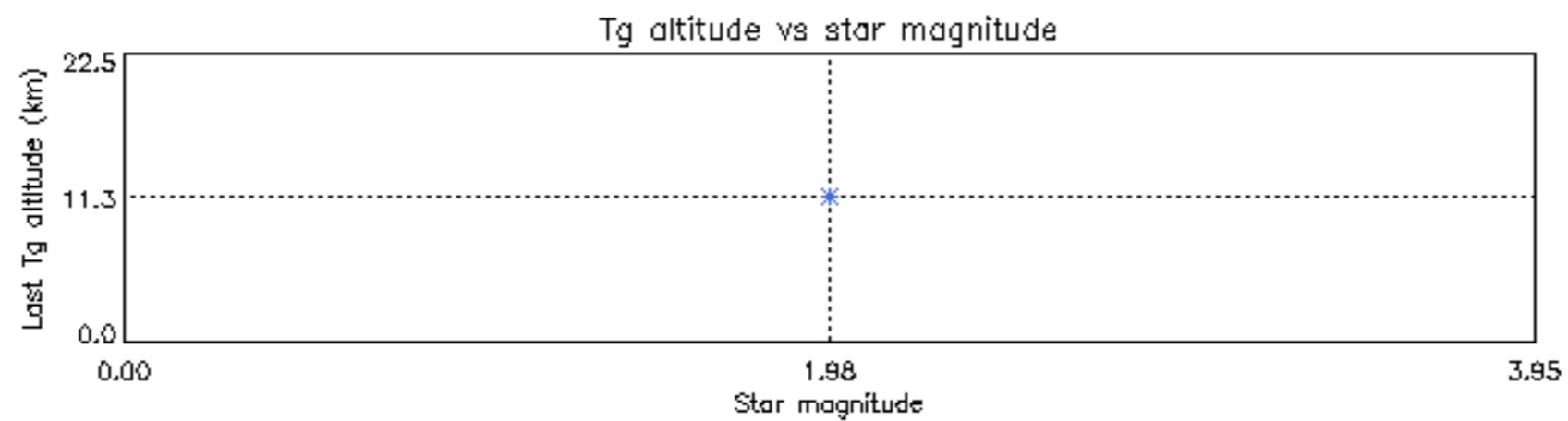
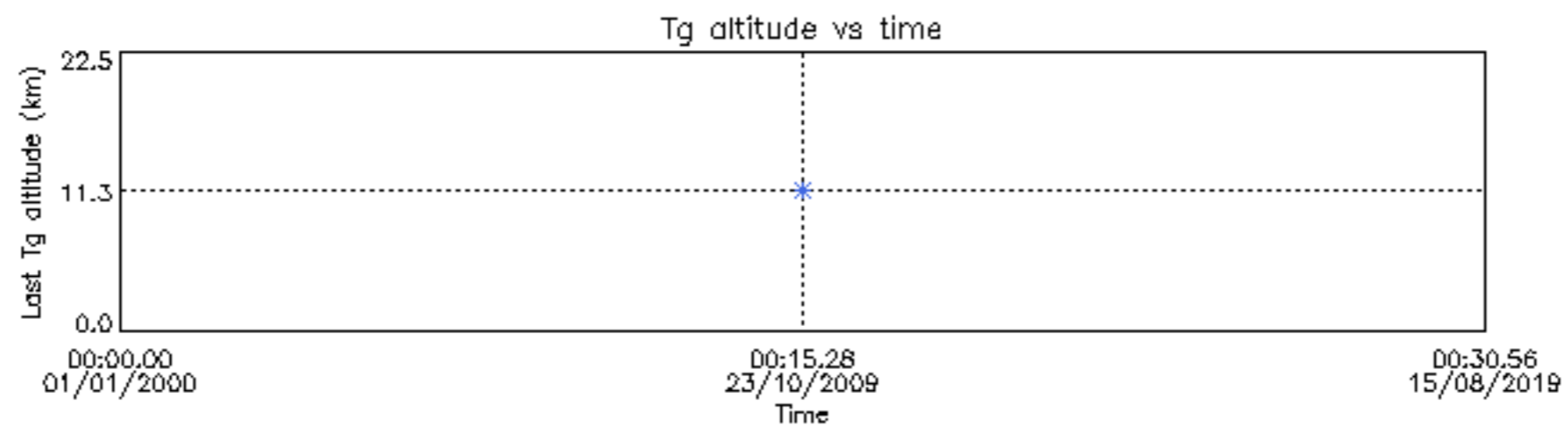
Percentage of star falling outside central band per profile



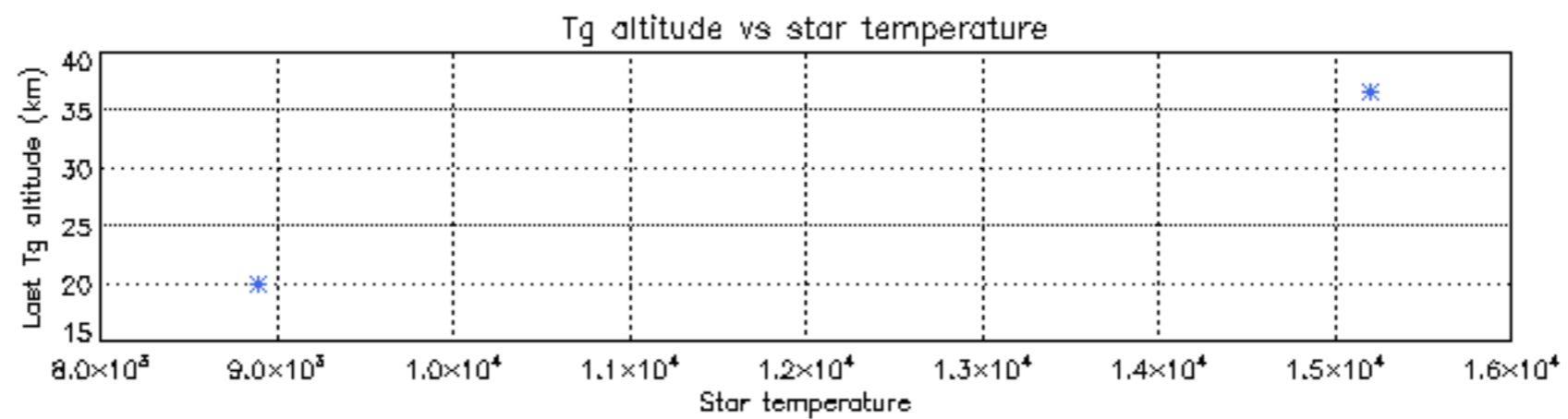
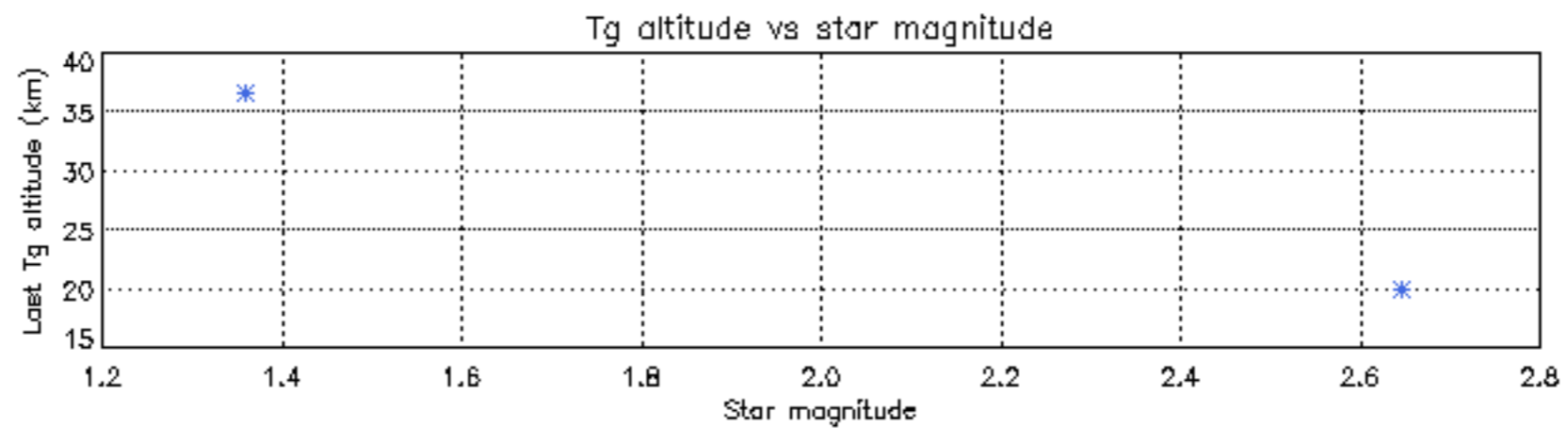
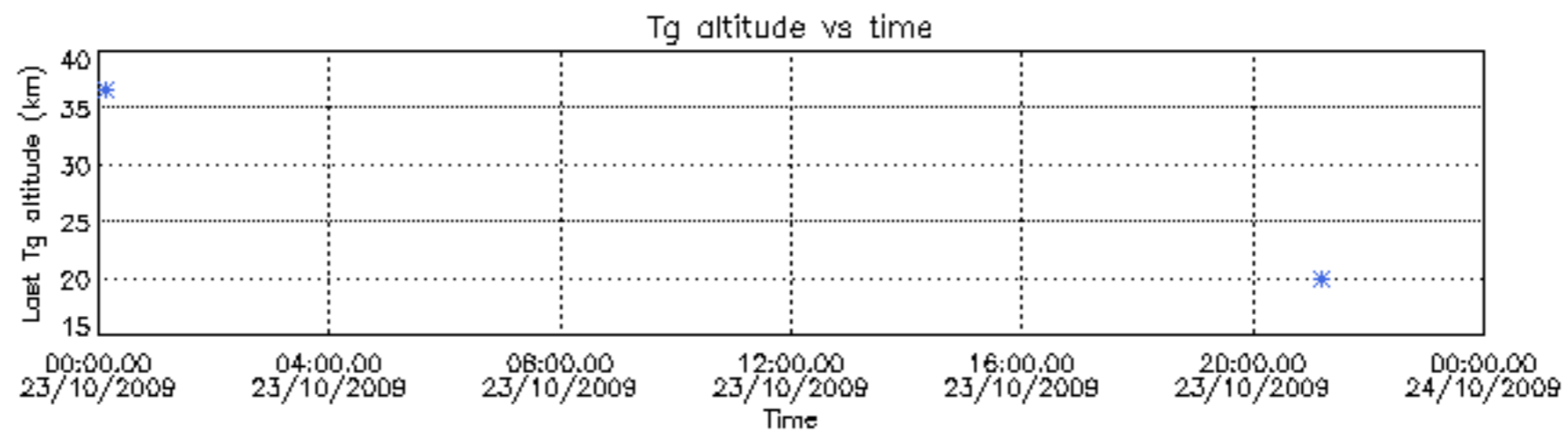
Percentage of saturation errors per profile

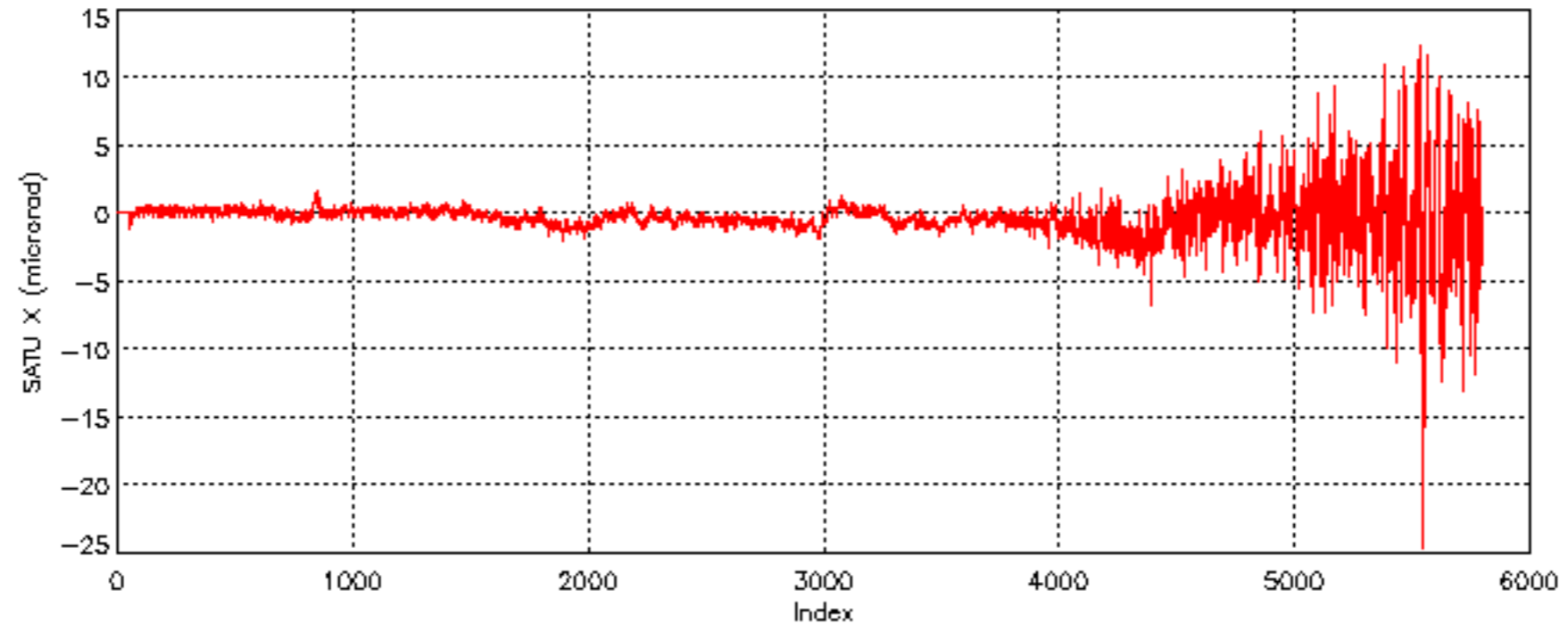


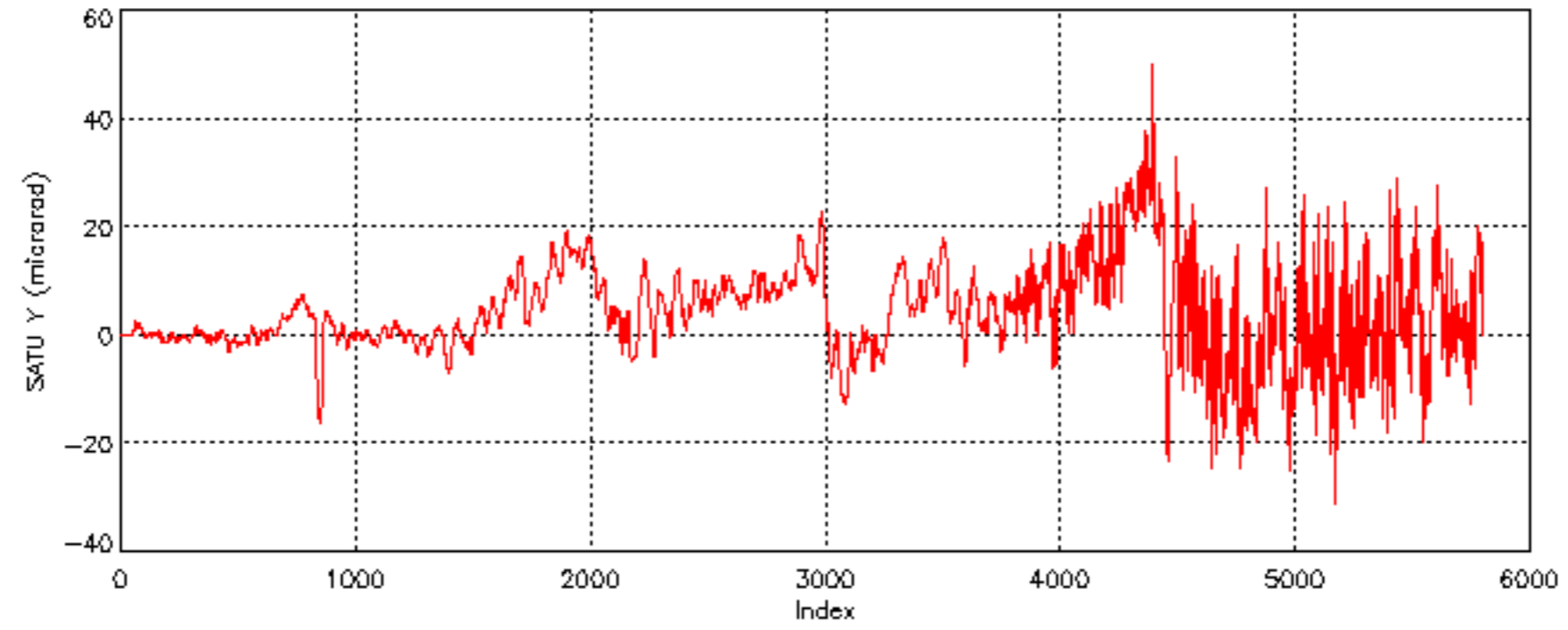
Tangent altitude at which the star is lost

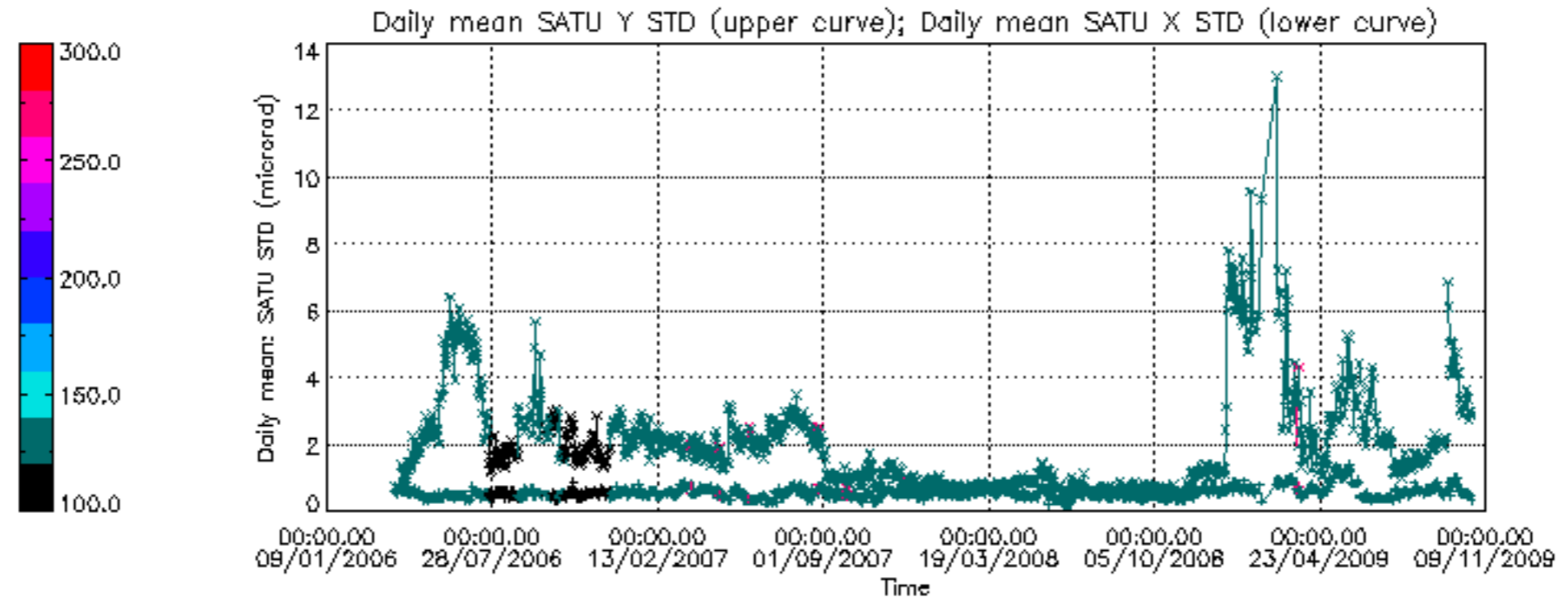


Tangent altitude at which the star is lost









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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
6; 915.5; 01-OCT-2009 00:32:37; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;39664
7; 1557.3; 01-OCT-2009 00:43:19; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 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
5; 325.1; 01-OCT-2009 22:10:34; Dark ; 60.5; 108; Alp Col ; 2.65; 15200;occ; 121; 0;39677
6; 925.3; 01-OCT-2009 22:20:34; Dark ; 40.0; 157; The1Eri ; 2.91; 9300;occ; 80; 0;39677
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13; 4605.3; 02-OCT-2009 01:02:30; Bright; 37.5; 17; 78Bet Gem ; 1.16; 4500;occ; 75; 0;39678
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2; 2306.2; 22-OCT-2009 20:02:39; Bright; 36.5; 105; 6Bet Ari ; 2.64; 8900;occ; 73; 0;39976
3; 2591.6; 22-OCT-2009 20:07:24; Bright; 38.0; 173; 4Bet Tri ; 3.00; 8900;occ; 76; 0;39976
4; 2709.5; 22-OCT-2009 20:09:22; Bright; 37.0; 73; 57Gam1And ; 2.26; 13100;occ; 74; 0;39976
5; 2844.0; 22-OCT-2009 20:11:36; Bright; 44.5; 79; 26Bet Per ; 2.31; 13100;occ; 89; 0;39976
6; 3010.3; 22-OCT-2009 20:14:23; Bright; 39.0; 160; 23Gam Per ; 2.93; 4700;occ; 78; 0;39976
7; 4662.2; 22-OCT-2009 20:41:55; Bright; 32.0; 166; 17Eps Leo ; 2.98; 6000;occ; 64; 0;39976
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2; 417.8; 22-OCT-2009 16:09:58; Dark ; 37.5; 2; Alp Car ; -0.74; 7000;occ; 75; 0;39974
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7; 4662.0; 22-OCT-2009 19:01:18; Bright; 32.0; 166; 17Eps Leo ; 2.98; 6000;occ; 64; 0;39975
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3; 270.7; 26-OCT-2009 07:18:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40026
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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
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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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