

# GOMOS Daily Report 25-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	27OCT2009 04:31:15
Data source version	GOMOS/5.00L03
Start time of products	25OCT2009 00:01:02
Stop time of products	25OCT2009 23:35:59
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)

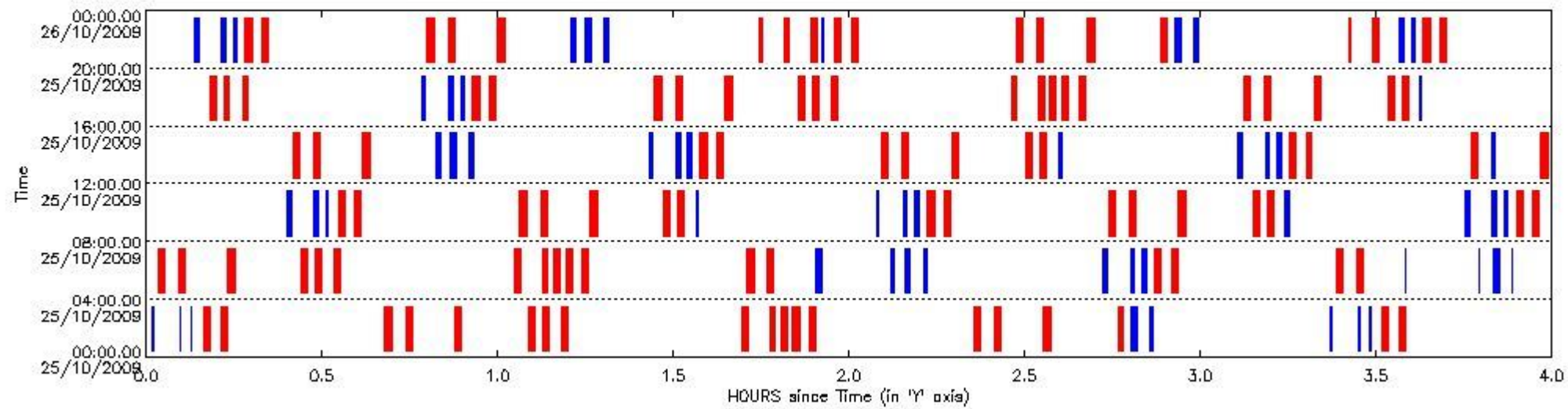
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
25-OCT-2009 00:09:48	26BetPer	79	40007
25-OCT-2009 00:12:42	23GamPer	160	40007
25-OCT-2009 00:40:43	17EpsLeo	166	40007
25-OCT-2009 00:44:14	32AlpLeo	22	40007
25-OCT-2009 00:52:36	30AlpHya	48	40007
25-OCT-2009 01:05:15	Gam2Vel	34	40008
25-OCT-2009 01:07:41	DSA1055	0	40008
25-OCT-2009 01:10:52	AlpCar	2	40008
25-OCT-2009 01:41:43	6BetAri	105	40008
25-OCT-2009 01:46:23	4BetTri	173	40008
25-OCT-2009 01:48:22	57Gam1And	73	40008
25-OCT-2009 01:50:23	26BetPer	79	40008
25-OCT-2009 01:53:17	23GamPer	160	40008
25-OCT-2009 02:21:19	17EpsLeo	166	40008
25-OCT-2009 02:24:51	32AlpLeo	22	40008

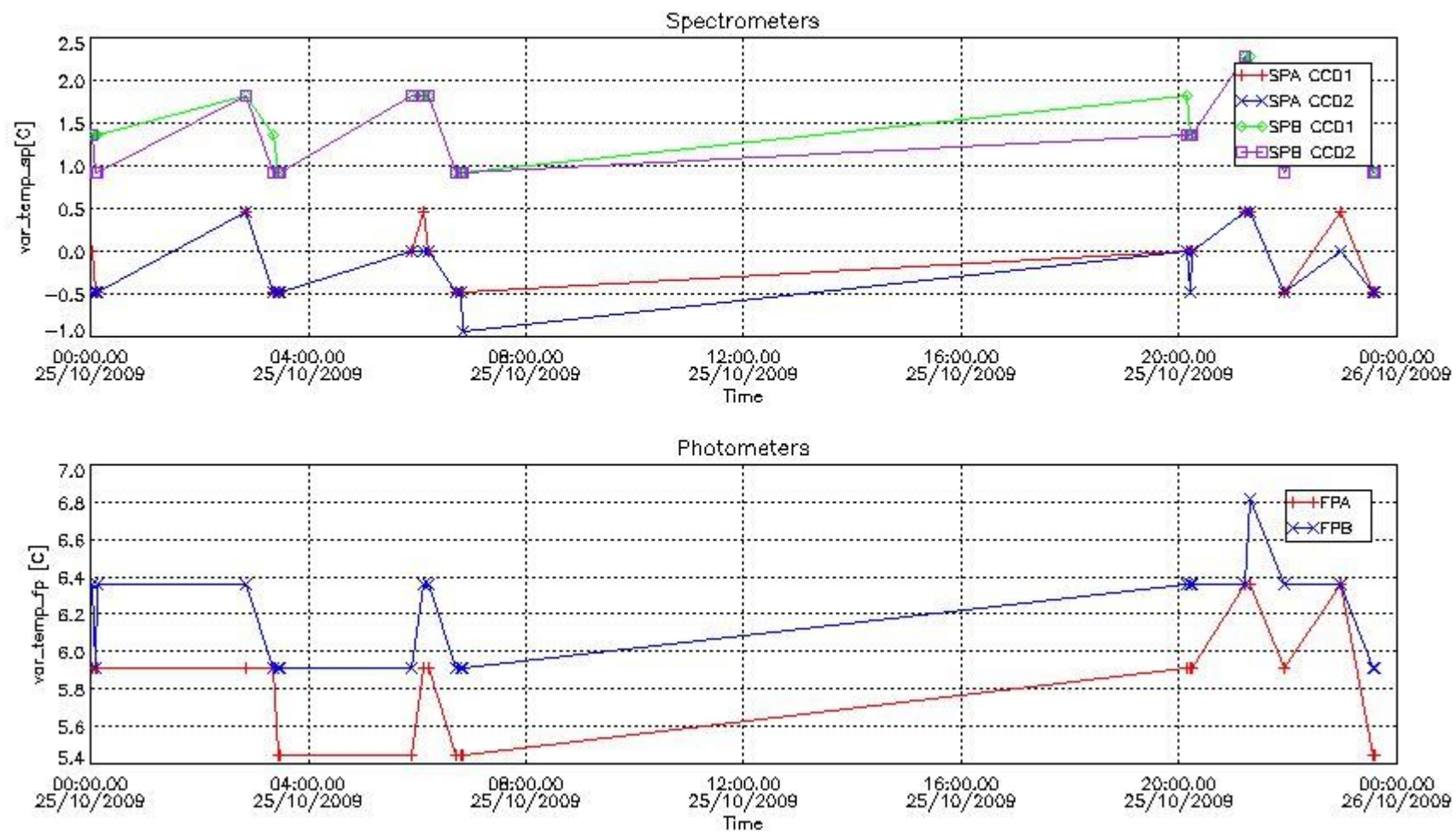
25-OCT-2009 02:33:13	30AlpHya	48	40008
25-OCT-2009 02:45:52	Gam2Vel	34	40009
25-OCT-2009 03:30:58	26BetPer	79	40009
25-OCT-2009 03:33:52	23GamPer	160	40009
25-OCT-2009 04:01:56	17EpsLeo	166	40009
25-OCT-2009 04:05:27	32AlpLeo	22	40009
25-OCT-2009 04:13:49	30AlpHya	48	40009
25-OCT-2009 04:26:28	Gam2Vel	34	40010
25-OCT-2009 04:28:54	DSA1055	0	40010
25-OCT-2009 04:32:06	AlpCar	2	40010
25-OCT-2009 05:02:54	6BetAri	105	40010
25-OCT-2009 05:07:34	4BetTri	173	40010
25-OCT-2009 05:09:33	57Gam1And	73	40010
25-OCT-2009 05:11:33	26BetPer	79	40010
25-OCT-2009 05:14:28	23GamPer	160	40010
25-OCT-2009 05:42:32	17EpsLeo	166	40010
25-OCT-2009 05:46:04	32AlpLeo	22	40010
25-OCT-2009 06:52:08	26BetPer	79	40011
25-OCT-2009 06:55:03	23GamPer	160	40011
25-OCT-2009 07:23:08	17EpsLeo	166	40011
25-OCT-2009 07:26:40	32AlpLeo	22	40011
25-OCT-2009 08:32:43	26BetPer	79	40012
25-OCT-2009 08:35:38	23GamPer	160	40012
25-OCT-2009 09:03:44	17EpsLeo	166	40012
25-OCT-2009 09:07:16	32AlpLeo	22	40012
25-OCT-2009 09:15:40	30AlpHya	48	40012
25-OCT-2009 09:28:19	Gam2Vel	34	40013
25-OCT-2009 09:30:45	DSA1055	0	40013
25-OCT-2009 10:13:18	26BetPer	79	40013
25-OCT-2009 10:16:13	23GamPer	160	40013
25-OCT-2009 10:44:21	17EpsLeo	166	40013
25-OCT-2009 10:47:53	32AlpLeo	22	40013
25-OCT-2009 10:56:17	30AlpHya	48	40013
25-OCT-2009 11:08:56	Gam2Vel	34	40014
25-OCT-2009 11:11:22	DSA1055	0	40014
25-OCT-2009 11:53:53	26BetPer	79	40014
25-OCT-2009 11:56:49	23GamPer	160	40014
25-OCT-2009 12:24:57	17EpsLeo	166	40014
25-OCT-2009 12:28:29	32AlpLeo	22	40014
25-OCT-2009 12:36:54	30AlpHya	48	40014
25-OCT-2009 13:34:28	26BetPer	79	40015
25-OCT-2009 13:37:24	23GamPer	160	40015
25-OCT-2009 14:05:33	17EpsLeo	166	40015
25-OCT-2009 14:09:06	32AlpLeo	22	40015
25-OCT-2009 14:17:31	30AlpHya	48	40015
25-OCT-2009 14:30:09	Gam2Vel	34	40016
25-OCT-2009 14:32:36	DSA1055	0	40016
25-OCT-2009 15:15:04	26BetPer	79	40016
25-OCT-2009 15:17:59	23GamPer	160	40016
25-OCT-2009 15:46:09	17EpsLeo	166	40016
25-OCT-2009 15:58:08	30AlpHya	48	40016
25-OCT-2009 16:10:46	Gam2Vel	34	40017
25-OCT-2009 16:13:13	DSA1055	0	40017
25-OCT-2009 16:16:23	AlpCar	2	40017
25-OCT-2009 16:55:39	26BetPer	79	40017
25-OCT-2009 16:58:35	23GamPer	160	40017
25-OCT-2009 17:26:46	17EpsLeo	166	40017
25-OCT-2009 17:30:19	32AlpLeo	22	40017
25-OCT-2009 17:38:45	30AlpHya	48	40017

25-OCT-2009 17:51:23	Gam2Vel	34	40018
25-OCT-2009 17:53:49	DSA1055	0	40018
25-OCT-2009 17:56:59	AlpCar	2	40018
25-OCT-2009 18:27:39	6BetAri	105	40018
25-OCT-2009 18:32:18	4BetTri	173	40018
25-OCT-2009 18:34:17	57Gam1And	73	40018
25-OCT-2009 18:36:14	26BetPer	79	40018
25-OCT-2009 18:39:10	23GamPer	160	40018
25-OCT-2009 19:07:22	17EpsLeo	166	40018
25-OCT-2009 19:10:55	32AlpLeo	22	40018
25-OCT-2009 19:19:22	30AlpHya	48	40018
25-OCT-2009 19:32:00	Gam2Vel	34	40019
25-OCT-2009 19:34:26	DSA1055	0	40019
25-OCT-2009 20:16:49	26BetPer	79	40019
25-OCT-2009 20:19:45	23GamPer	160	40019
25-OCT-2009 20:47:58	17EpsLeo	166	40019
25-OCT-2009 20:51:31	32AlpLeo	22	40019
25-OCT-2009 20:59:59	30AlpHya	48	40019
25-OCT-2009 21:44:42	92AlpCet	94	40020
25-OCT-2009 21:48:50	6BetAri	105	40020
25-OCT-2009 21:53:29	4BetTri	173	40020
25-OCT-2009 21:57:24	26BetPer	79	40020
25-OCT-2009 22:00:21	23GamPer	160	40020
25-OCT-2009 22:28:34	17EpsLeo	166	40020
25-OCT-2009 22:32:08	32AlpLeo	22	40020
25-OCT-2009 22:40:36	30AlpHya	48	40020
25-OCT-2009 22:53:13	Gam2Vel	34	40021
25-OCT-2009 23:25:17	92AlpCet	94	40021
25-OCT-2009 23:29:26	6BetAri	105	40021
25-OCT-2009 23:37:59	26BetPer	79	40021
25-OCT-2009 23:40:56	23GamPer	160	40021

#### 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_1PNPDE20091025_000102_000000052083_00374_40007_1862.N1	25-OCT-2009 00:01:02	Straylight	4.5000	105	6Bet Ari	2.6450	8900.0	9	40007	No
2	GOM_TRA_1PNPDE20091025_000543_000000052083_00374_40007_1863.N1	25-OCT-2009 00:05:43	Straylight	4.5000	173	4Bet Tri	3.0040	8900.0	9	40007	No
3	GOM_TRA_1PNPDE20091025_000742_000000042083_00374_40007_1864.N1	25-OCT-2009 00:07:42	Straylight	4.0000	73	57Gam1And	2.2600	13100.	8	40007	No
4	GOM_TRA_1PNPDE20091025_025123_000000252083_00376_40009_1877.N1	25-OCT-2009 02:51:23	Dark	24.500	2	Alp Car	-0.73600	7000.0	49	40009	No
5	GOM_TRA_1PNPDE20091025_032213_000000162083_00376_40009_1878.N1	25-OCT-2009 03:22:13	Twilight_stray	15.500	105	6Bet Ari	2.6450	8900.0	31	40009	No
6	GOM_TRA_1PNPDE20091025_032654_000000182083_00376_40009_1879.N1	25-OCT-2009 03:26:54	Twilight_stray	18.000	173	4Bet Tri	3.0040	8900.0	36	40009	No
7	GOM_TRA_1PNPDE20091025_032853_000000142083_00376_40009_1880.N1	25-OCT-2009 03:28:53	Twilight_stray	14.000	73	57Gam1And	2.2600	13100.	28	40009	No
8	GOM_TRA_1PNPDE20091025_055421_000000592083_00377_40010_1887.N1	25-OCT-2009 05:54:21	Dark	58.500	48	30Alp Hya	1.9770	4100.0	117	40010	No
9	GOM_TRA_1PNPDE20091025_060700_000000442083_00378_40011_1888.N1	25-OCT-2009 06:07:00	Dark	44.000	34	Gam2Vel	1.7930	23000.	88	40011	No
10	GOM_TRA_1PNPDE20091025_061238_000000472083_00378_40011_1889.N1	25-OCT-2009 06:12:38	Dark	46.500	2	Alp Car	-0.73600	7000.0	93	40011	No
11	GOM_TRA_1PNPDE20091025_064325_000000432083_00378_40011_1890.N1	25-OCT-2009 06:43:25	Bright	43.000	105	6Bet Ari	2.6450	8900.0	86	40011	No
12	GOM_TRA_1PNPDE20091025_064805_000000432083_00378_40011_1891.N1	25-OCT-2009 06:48:05	Bright	42.500	173	4Bet Tri	3.0040	8900.0	85	40011	No
13	GOM_TRA_1PNPDE20091025_065004_000000432083_00378_40011_1892.N1	25-OCT-2009 06:50:04	Bright	42.500	73	57Gam1And	2.2600	13100.	85	40011	No
14	GOM_TRA_1PNPDE20091025_200810_000000422083_00386_40019_1928.N1	25-OCT-2009 20:08:10	Bright	42.000	105	6Bet Ari	2.6450	8900.0	84	40019	No
15	GOM_TRA_1PNPDE20091025_201248_000000412083_00386_40019_1929.N1	25-OCT-2009 20:12:48	Bright	40.500	173	4Bet Tri	3.0040	8900.0	81	40019	No
16	GOM_TRA_1PNPDE20091025_201448_000000412083_00386_40019_1930.N1	25-OCT-2009 20:14:48	Bright	41.000	73	57Gam1And	2.2600	13100.	82	40019	No
17	GOM_TRA_1PNPDE20091025_211232_000000482083_00387_40020_1934.N1	25-OCT-2009 21:12:32	Dark	48.000	34	Gam2Vel	1.7930	23000.	96	40020	No
18	GOM_TRA_1PNPDE20091025_211808_000000492083_00387_40020_1935.N1	25-OCT-2009 21:18:08	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	40020	No
19	GOM_TRA_1PNPDE20091025_215524_000000152083_00387_40020_1936.N1	25-OCT-2009 21:55:24	Twilight_stray	15.000	73	57Gam1And	2.2600	13100.	30	40020	No
20	GOM_TRA_1PNPDE20091025_225845_000000492083_00388_40021_1940.N1	25-OCT-2009 22:58:45	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	40021	No
21	GOM_TRA_1PNPDE20091025_233400_000000422083_00388_40021_1941.N1	25-OCT-2009 23:34:00	Bright	41.500	173	4Bet Tri	3.0040	8900.0	83	40021	No
22	GOM_TRA_1PNPDE20091025_233559_000000412083_00388_40021_1942.N1	25-OCT-2009 23:35:59	Bright	41.000	73	57Gam1And	2.2600	13100.	82	40021	No

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



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

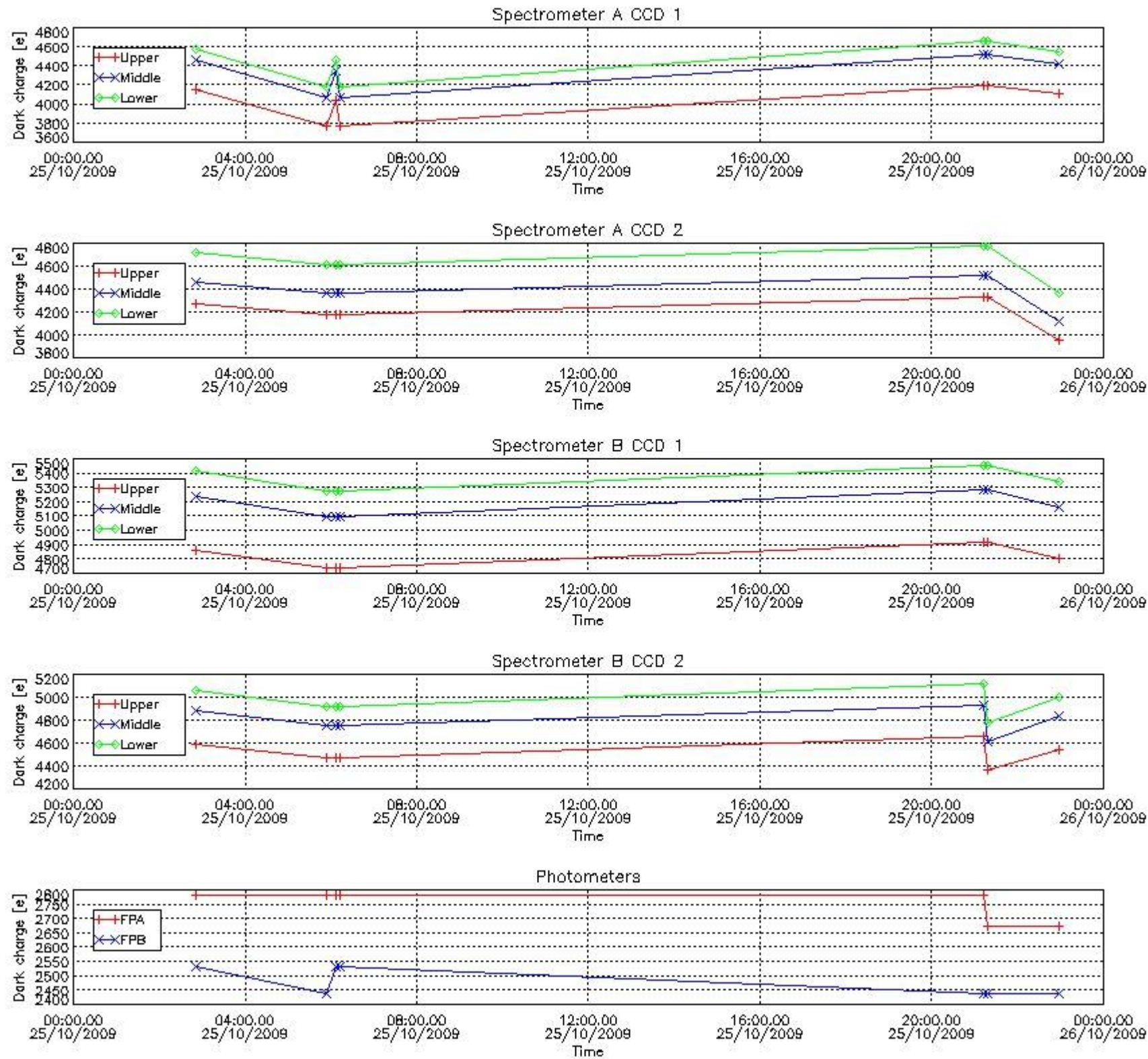
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20091025_200810_000000422083_00386_40019_1928.N1	DC map used
GOM_TRA_1PNPDE20091025_201248_000000412083_00386_40019_1929.N1	DC map used
GOM_TRA_1PNPDE20091025_201448_000000412083_00386_40019_1930.N1	DC map used

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



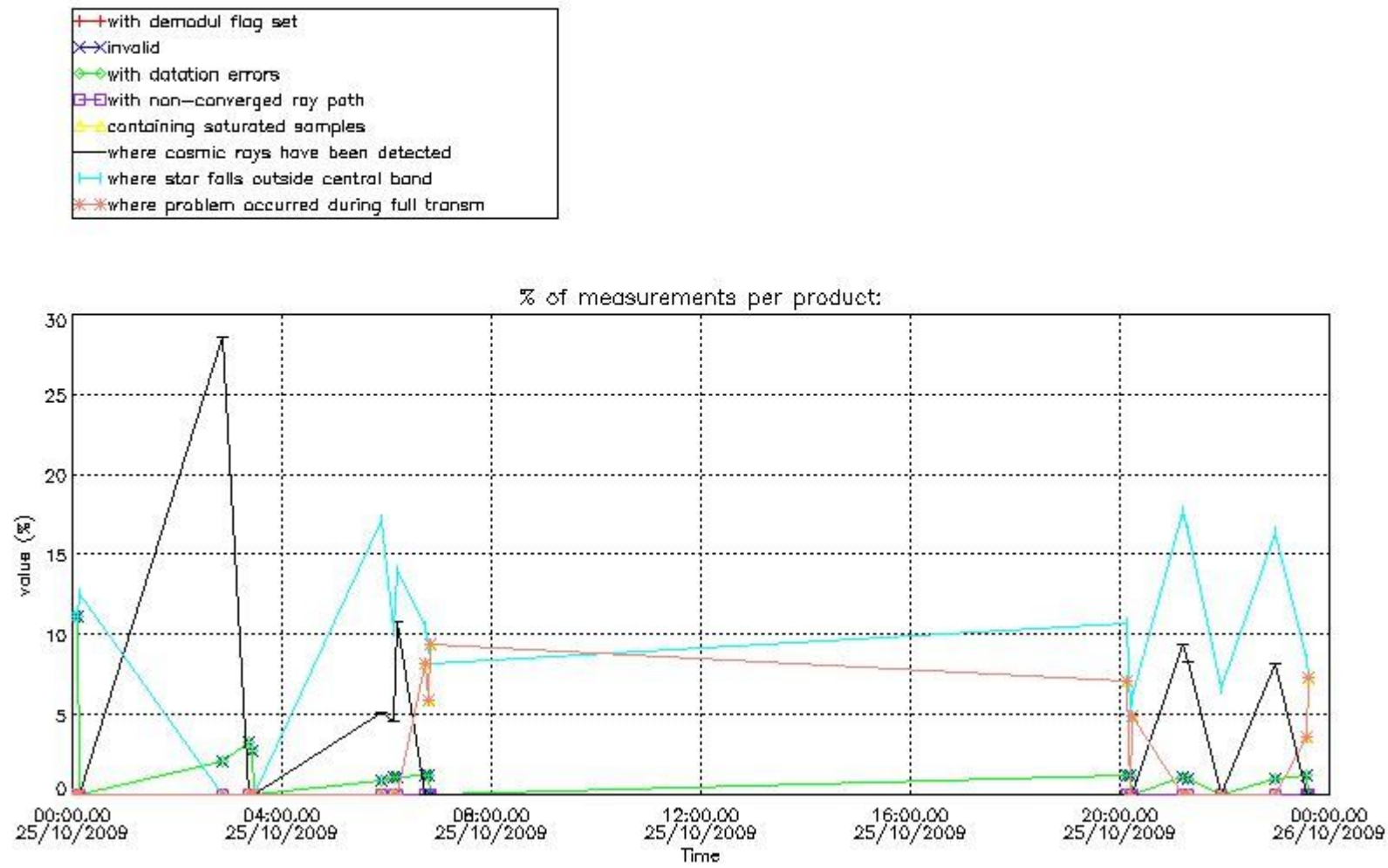
## 5. Demodulation flag and quality information monitoring

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.

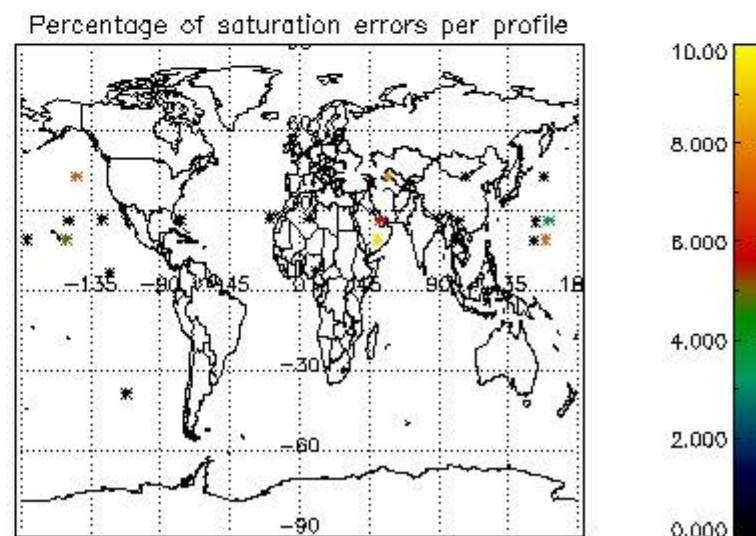
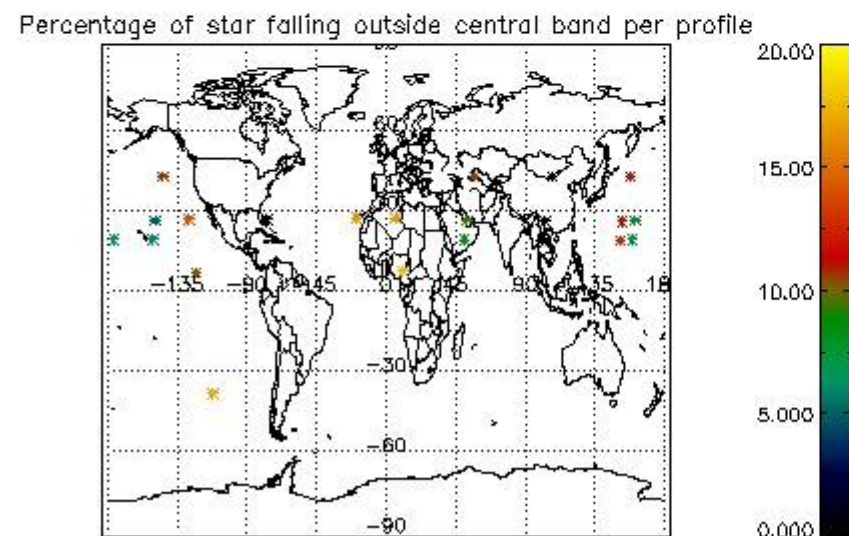
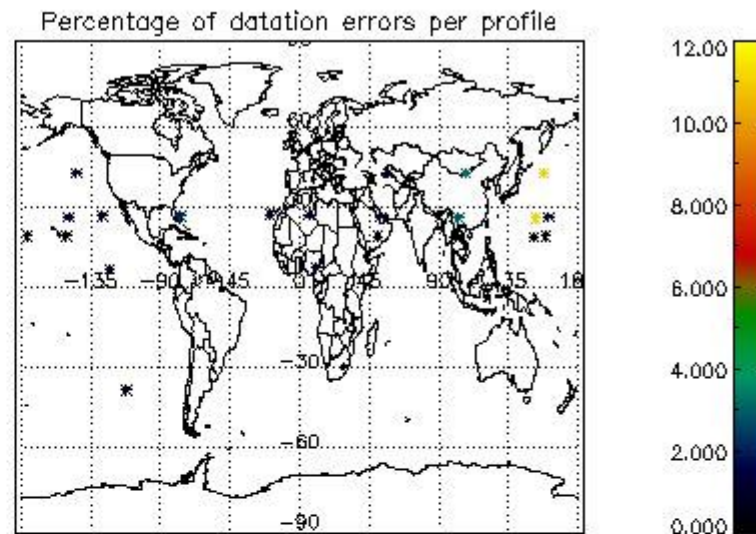
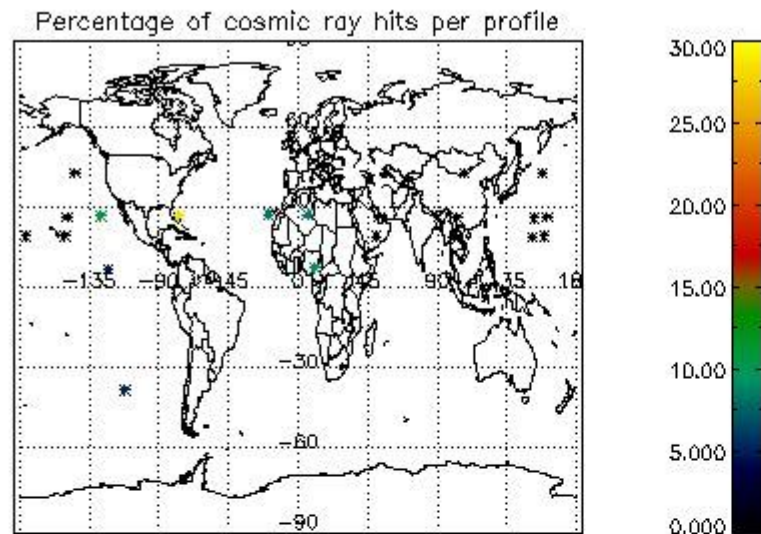
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	22.7273 %
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)

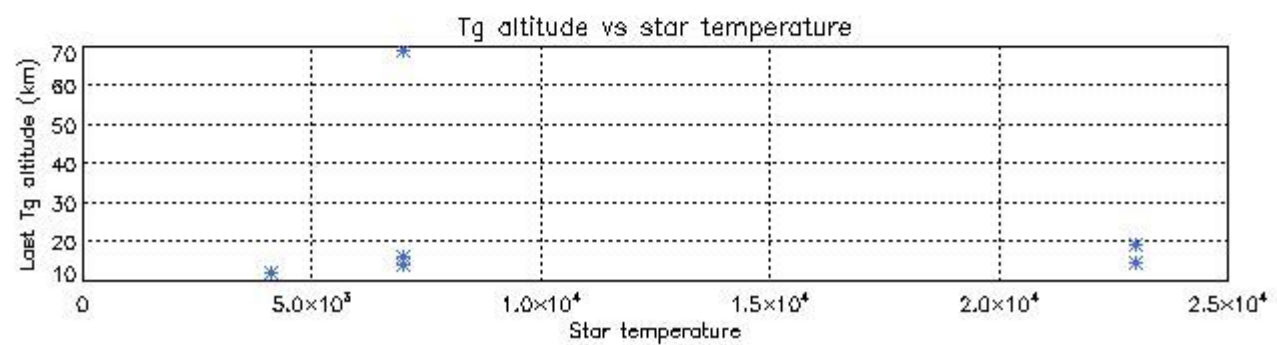
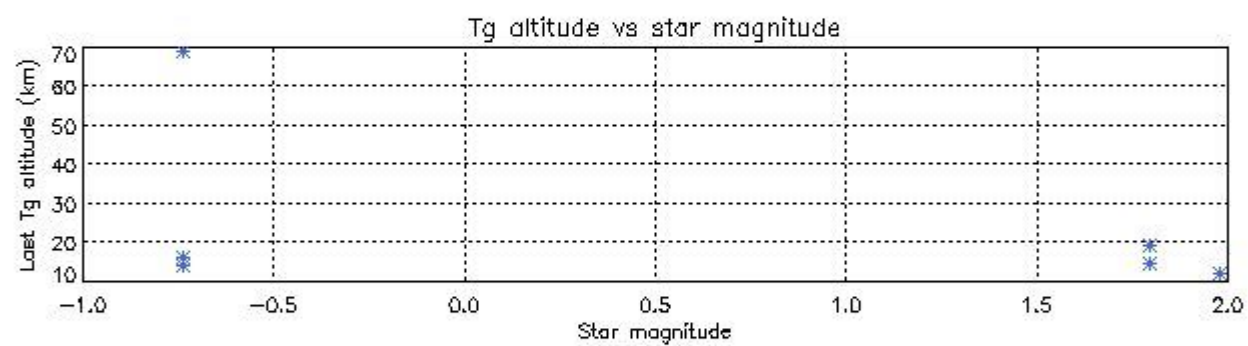
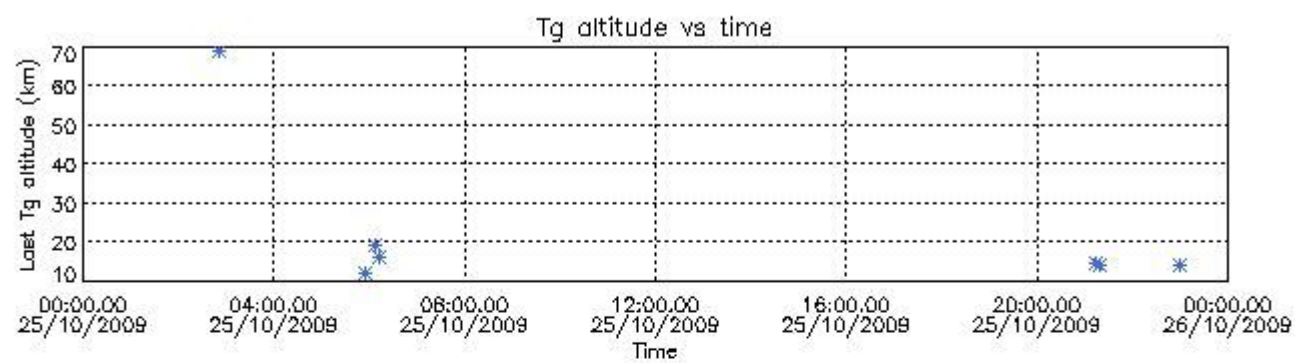
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	22.736	20.093	NaN
St. deviation:	20.522	1.9726	NaN
Maximum:	69.007	23.775	NaN
Minimum:	12.122	17.813	NaN
Number of data:	7.0000	8.0000	NaN

### 6.2 Plot for DARK limb products

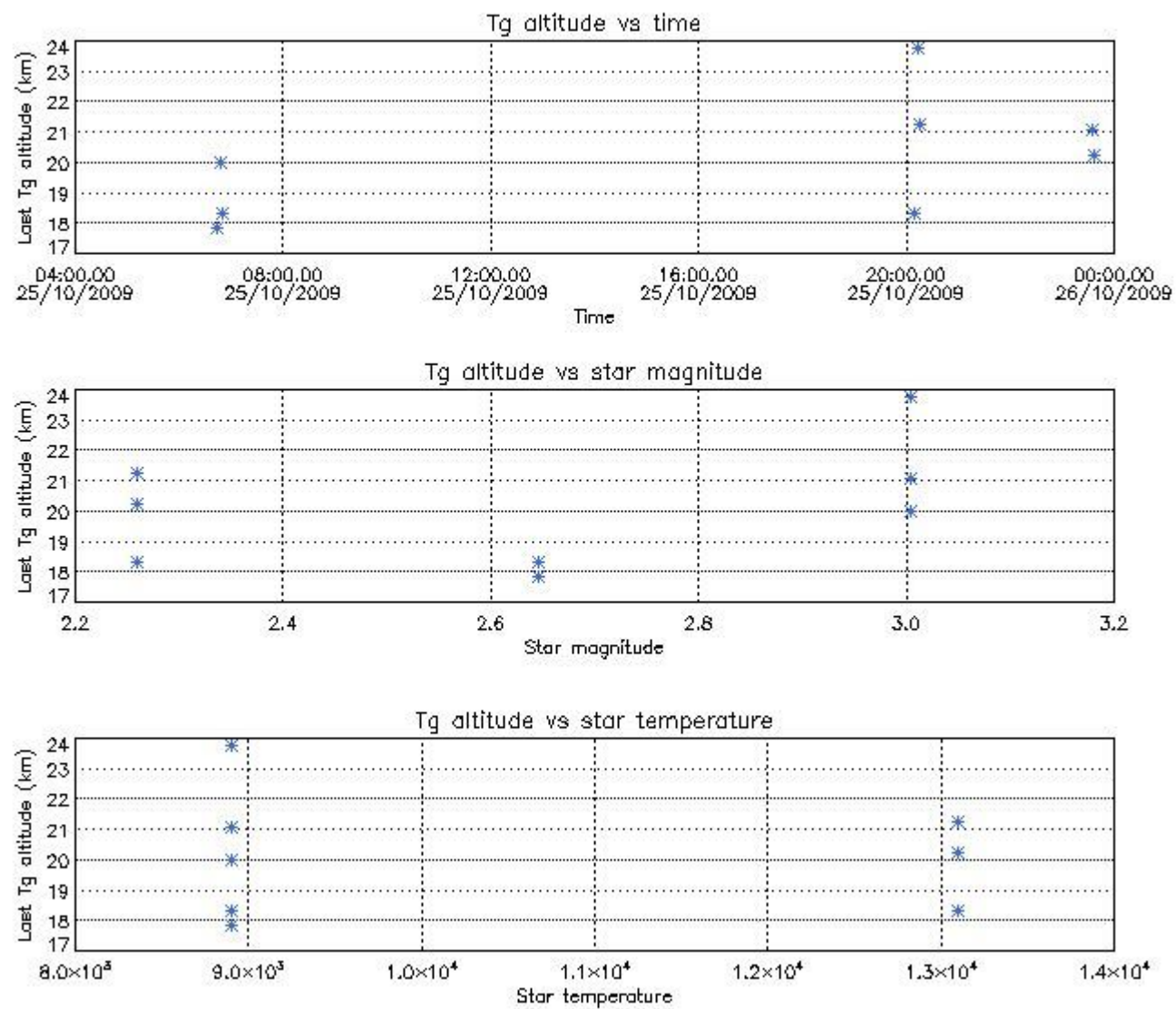


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost

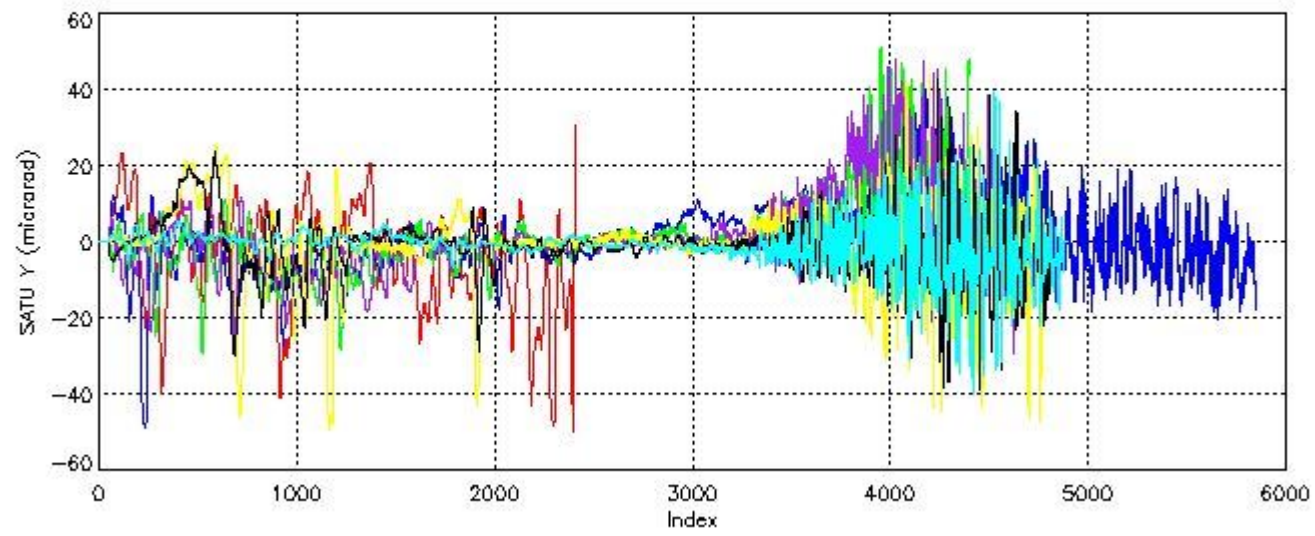
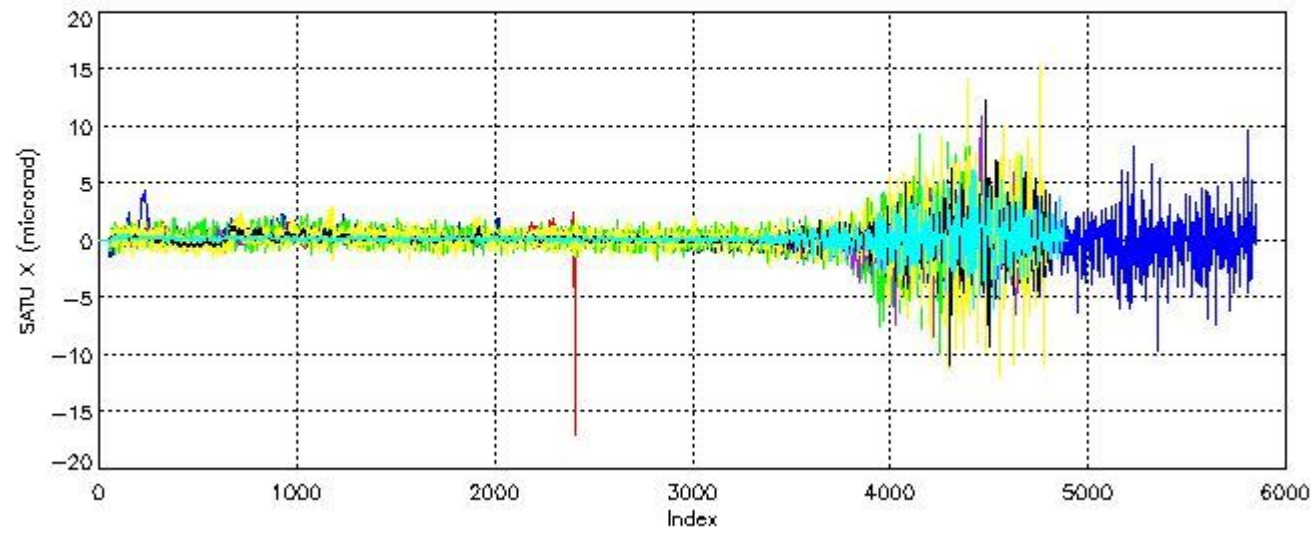


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.30561	-1.6455	0.29014	-0.82300
St. deviation:	0.46216	8.9803	1.0105	5.4344
Maximum:	4.3000	25.500	5.5000	19.300
Minimum:	-1.5000	-48.700	-10.200	-34.800

Number of data:	7550.0	7550.0	7900.0	7900.0
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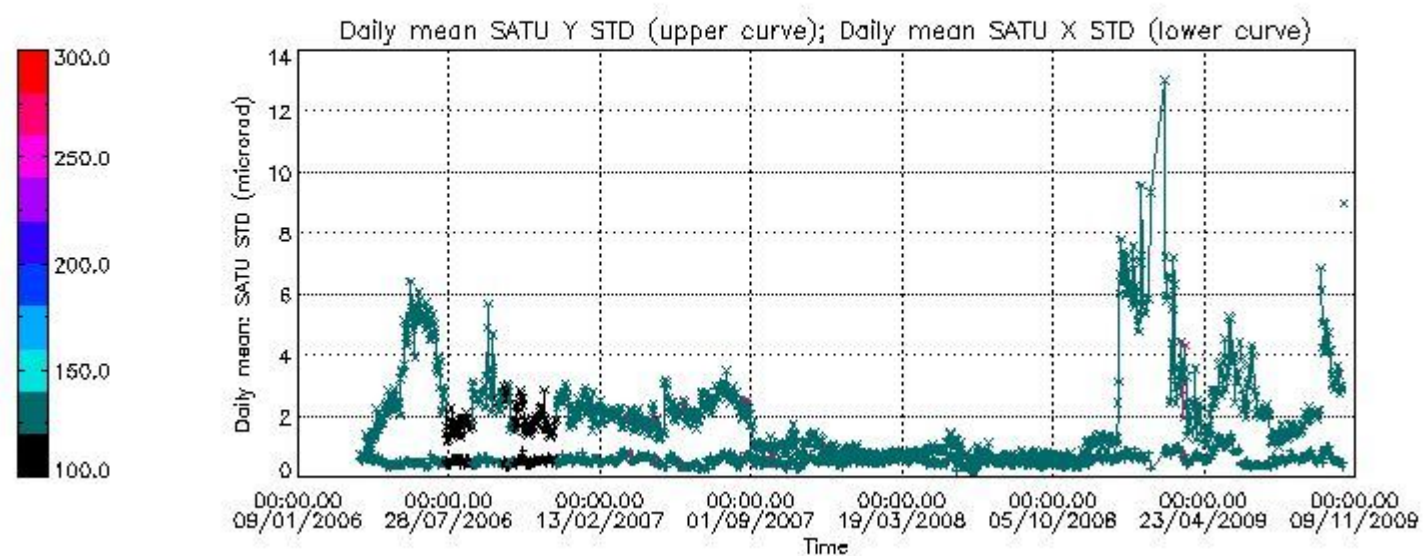
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

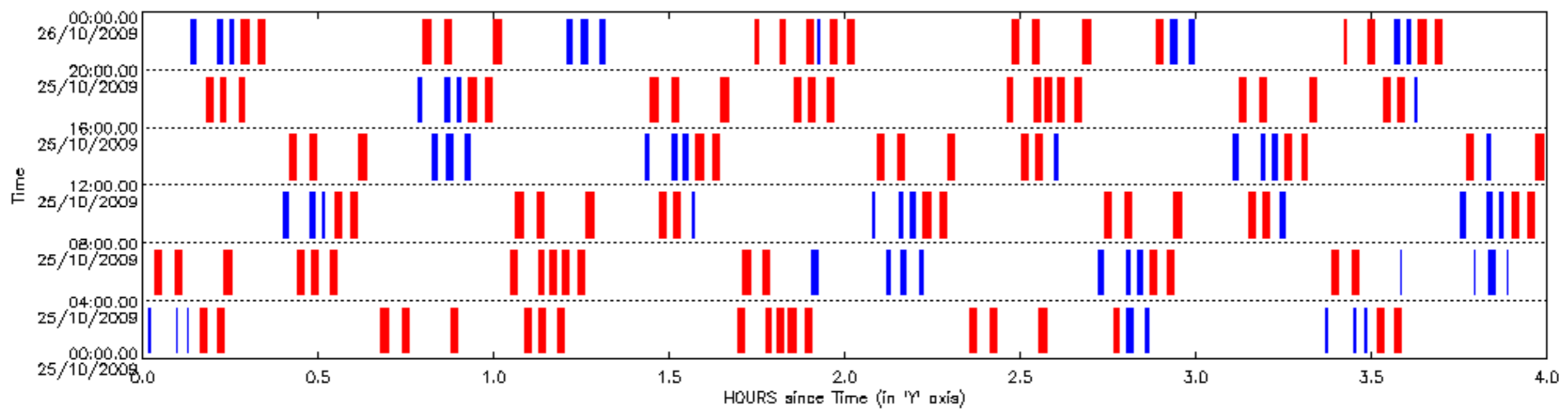
Lower curve: STD of SATU X axis

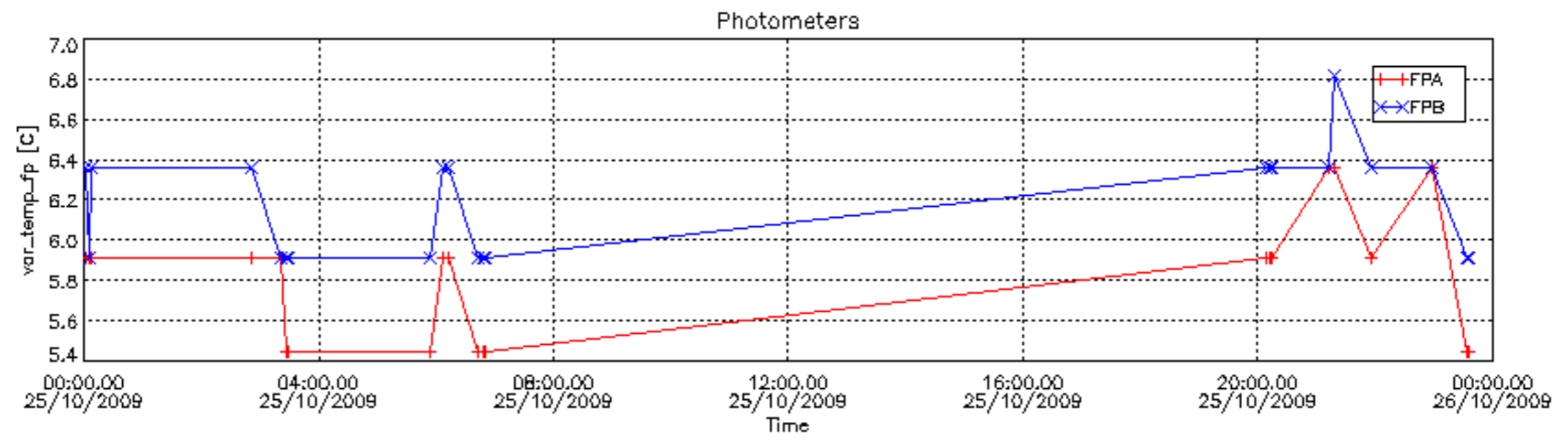
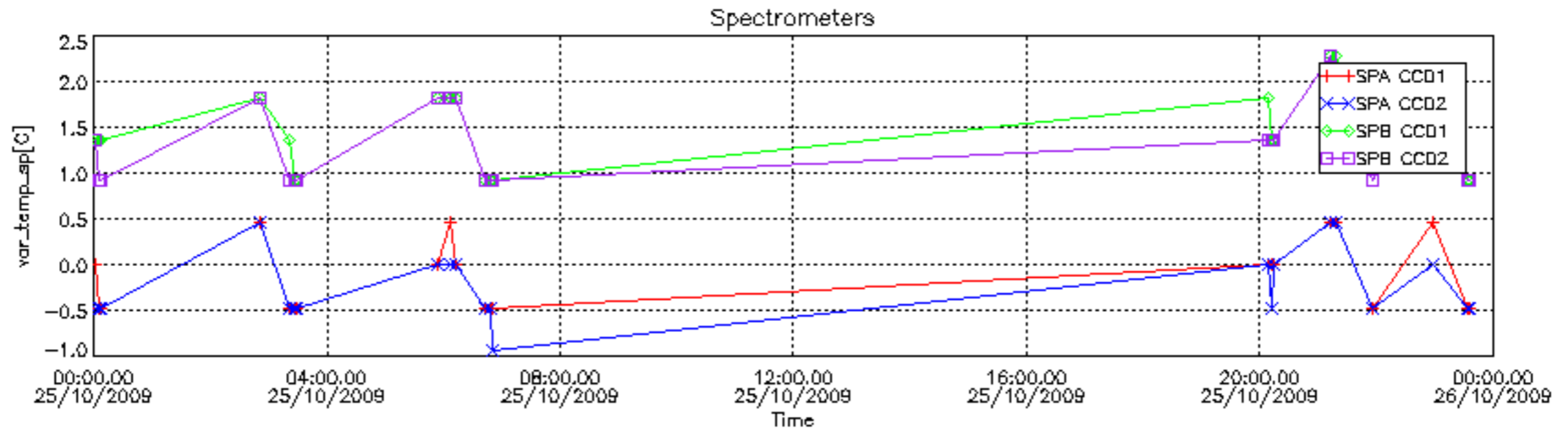


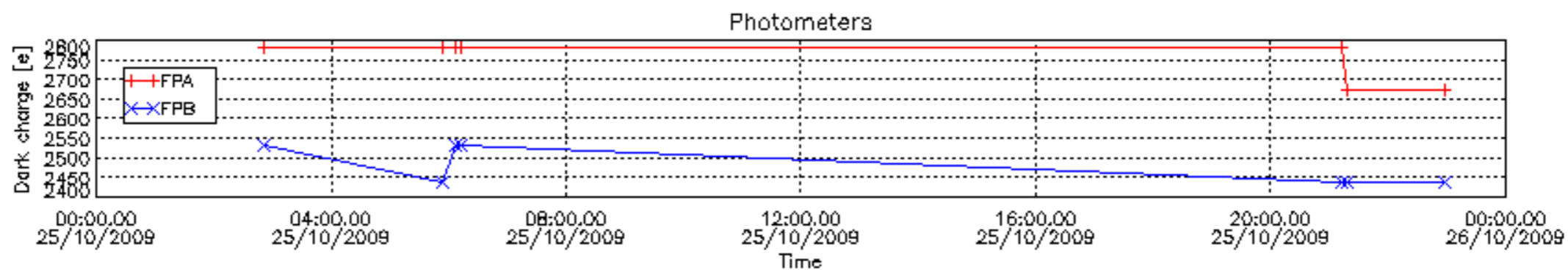
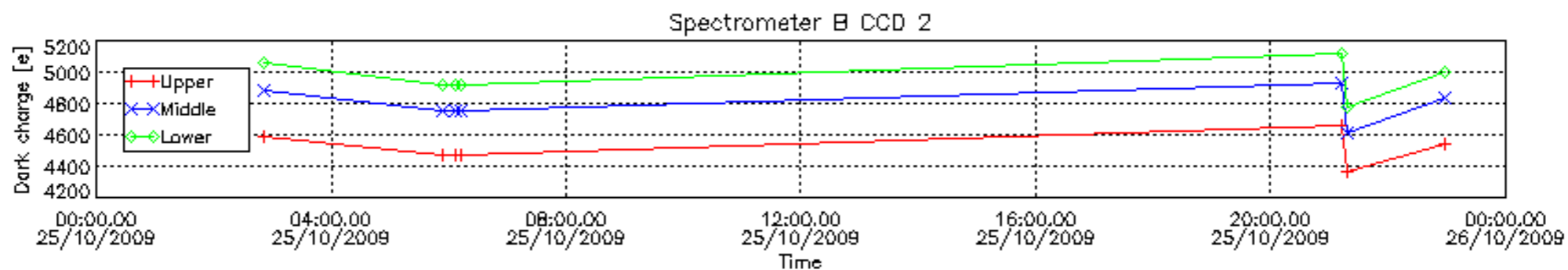
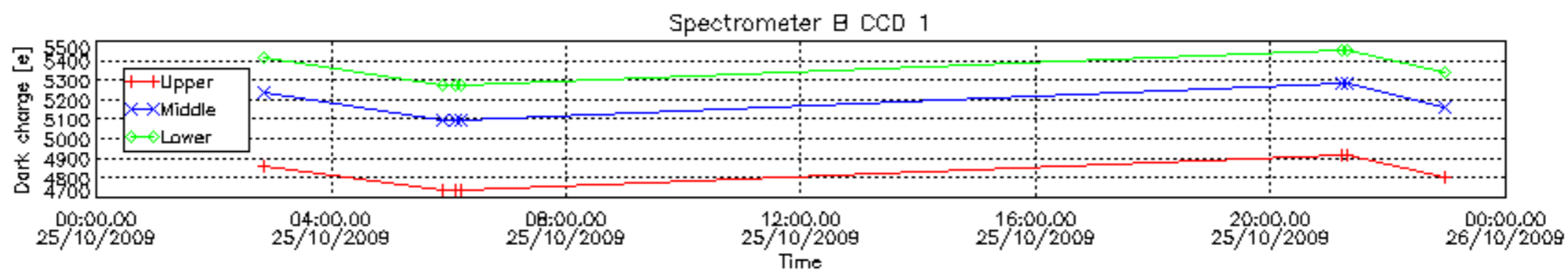
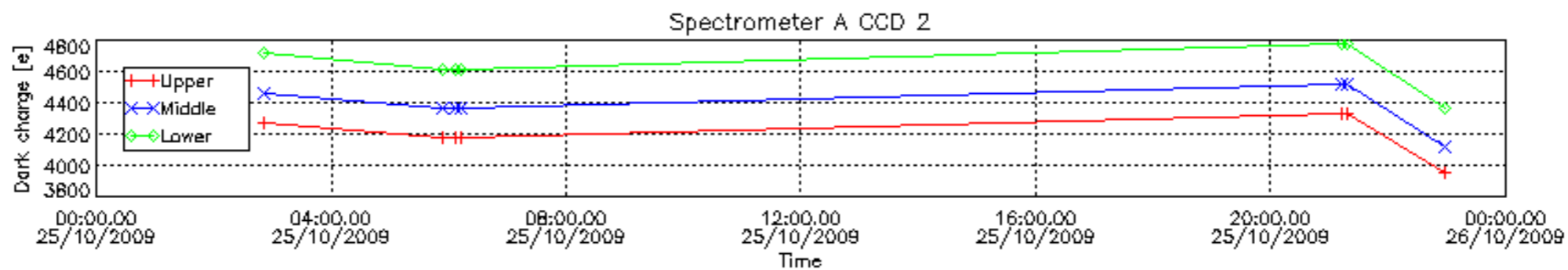
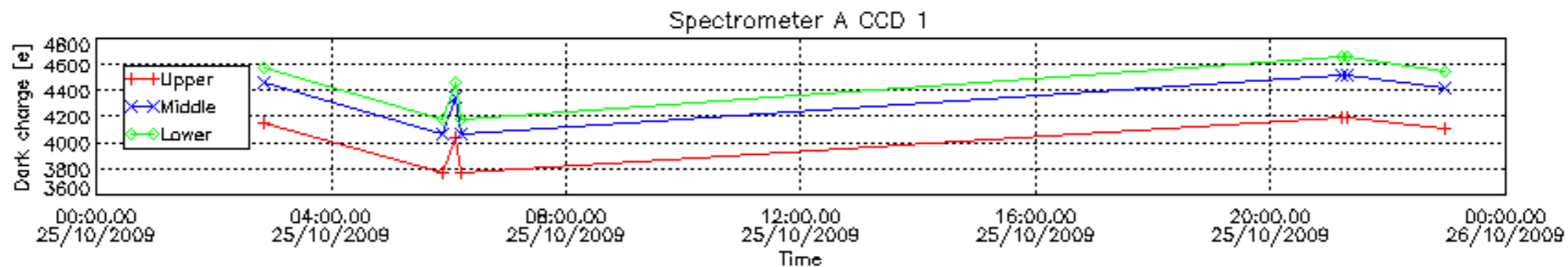
### 8. Auxiliary Data Files used for the production reported in section 2.4

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	25-OCT-2009 00:01:02
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091021_155237_20091019_000000_20100101_000000	1	25-OCT-2009 00:01:02
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	25-OCT-2009 00:01:02
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	25-OCT-2009 00:01:02
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	25-OCT-2009 00:01:02
ECMWF_FILE	AUX_ECF_AXNECM20091024_064112_20091024_210000_20091025_090000	1	25-OCT-2009 00:01:02
ECMWF_FILE	AUX_ECA_AXNECM20091025_062111_20091024_210000_20091025_090000	8	25-OCT-2009 05:54:21
ECMWF_FILE	AUX_ECA_AXNECM20091025_182111_20091025_090000_20091025_210000	14	25-OCT-2009 20:08:10
ECMWF_FILE	AUX_ECF_AXNECM20091025_064112_20091025_210000_20091026_090000	17	25-OCT-2009 21:12:32
OPTIONAL_ECMWF_FILE	MISSING	1	25-OCT-2009 00:01:02
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091024_010111_20091023_185235_20091102_201849	1	25-OCT-2009 00:01:02
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091025_020749_000054192083_00375_40008_9039.N1	4	25-OCT-2009 02:51:23
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091025_052424_000057382083_00377_40010_9041.N1	8	25-OCT-2009 05:54:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091025_193949_000038252083_00386_40019_9042.N1	14	25-OCT-2009 20:08:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091025_204853_000060572083_00386_40019_9043.N1	17	25-OCT-2009 21:12:32
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091025_010111_20091024_182058_20091103_212748	20	25-OCT-2009 22:58:45



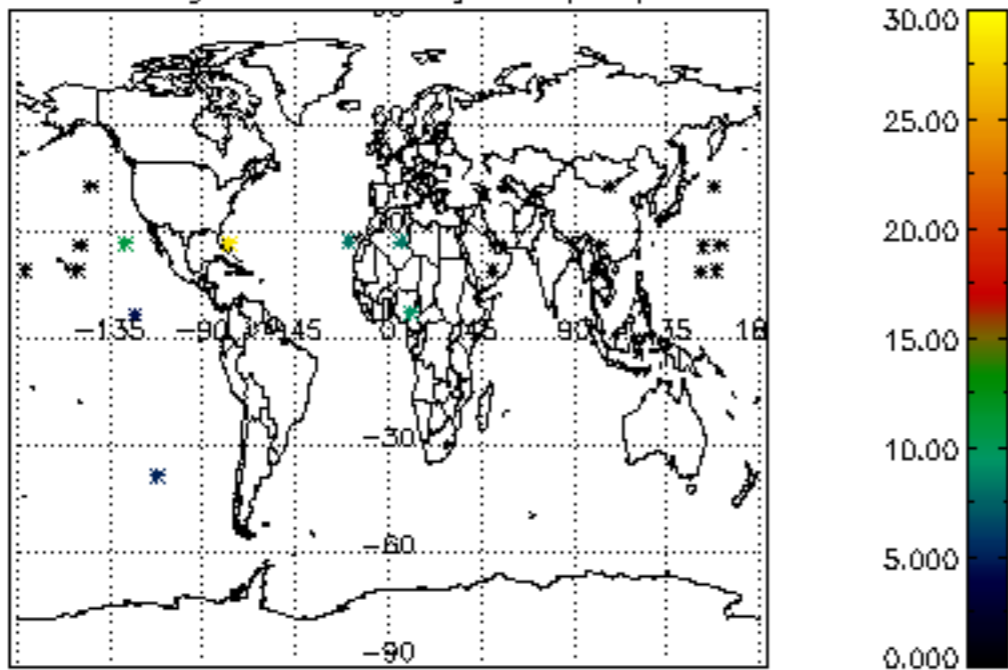




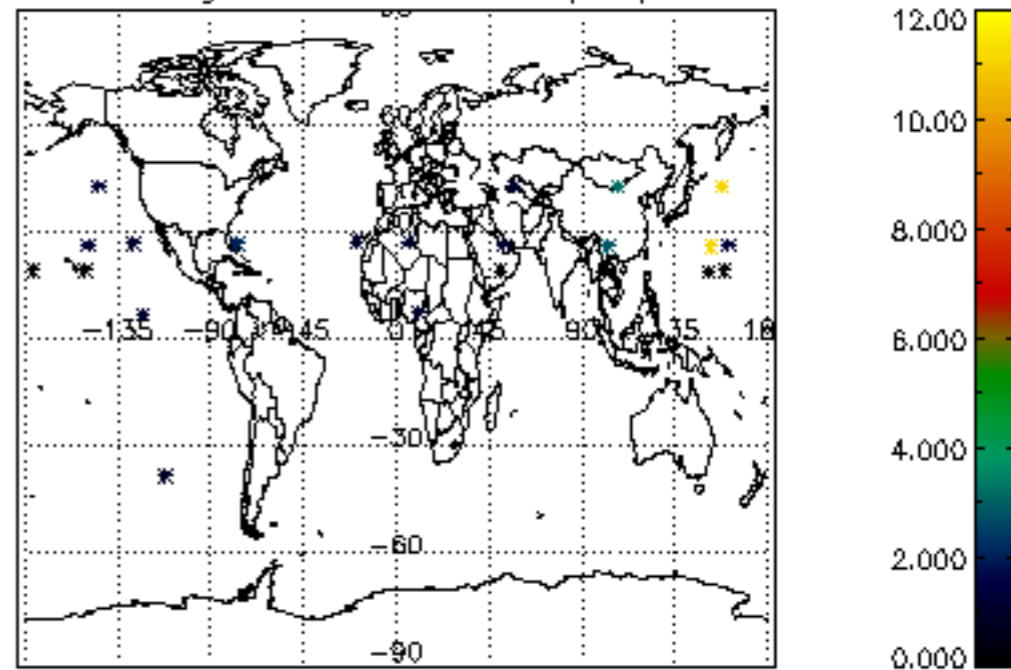




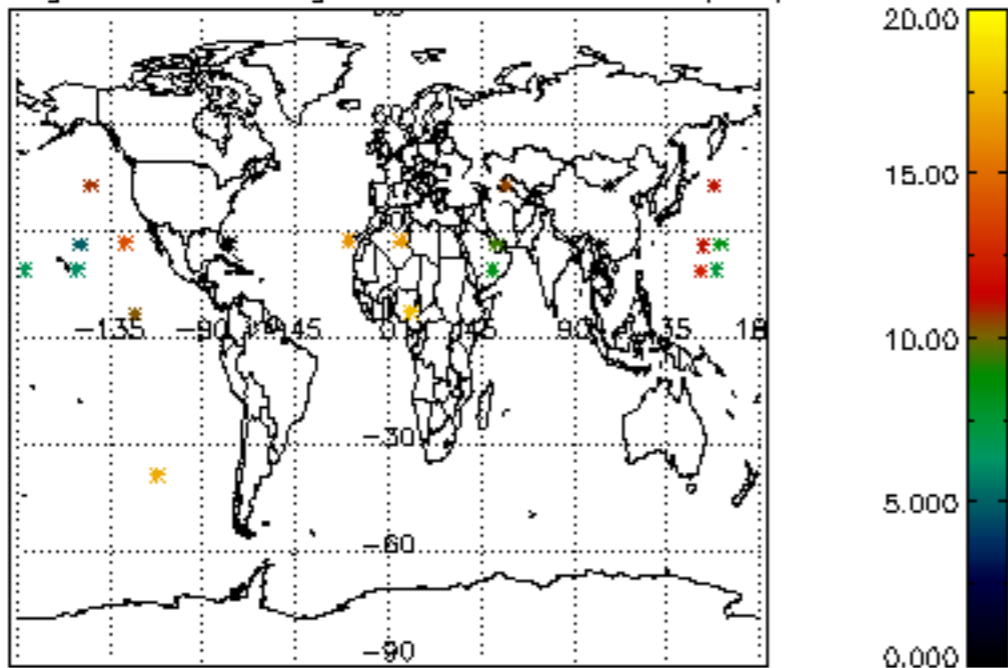
Percentage of cosmic ray hits per profile



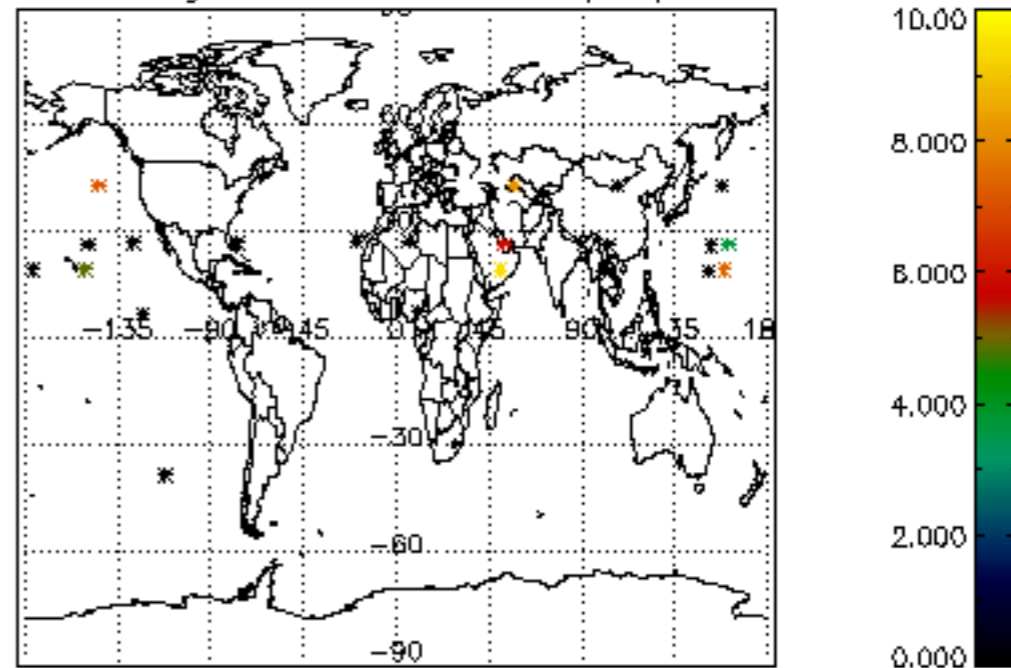
Percentage of datation errors per profile



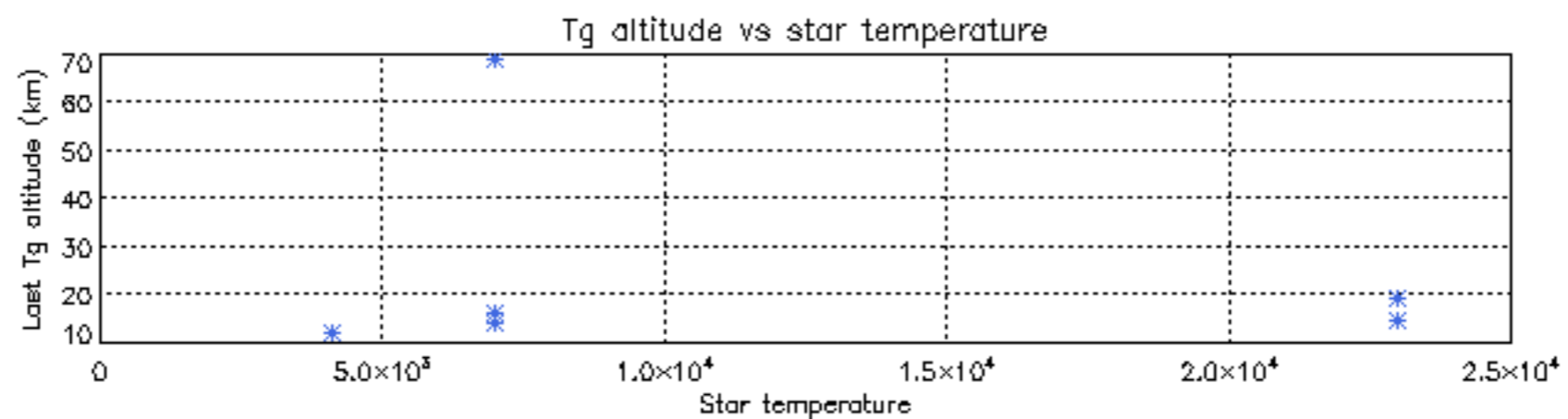
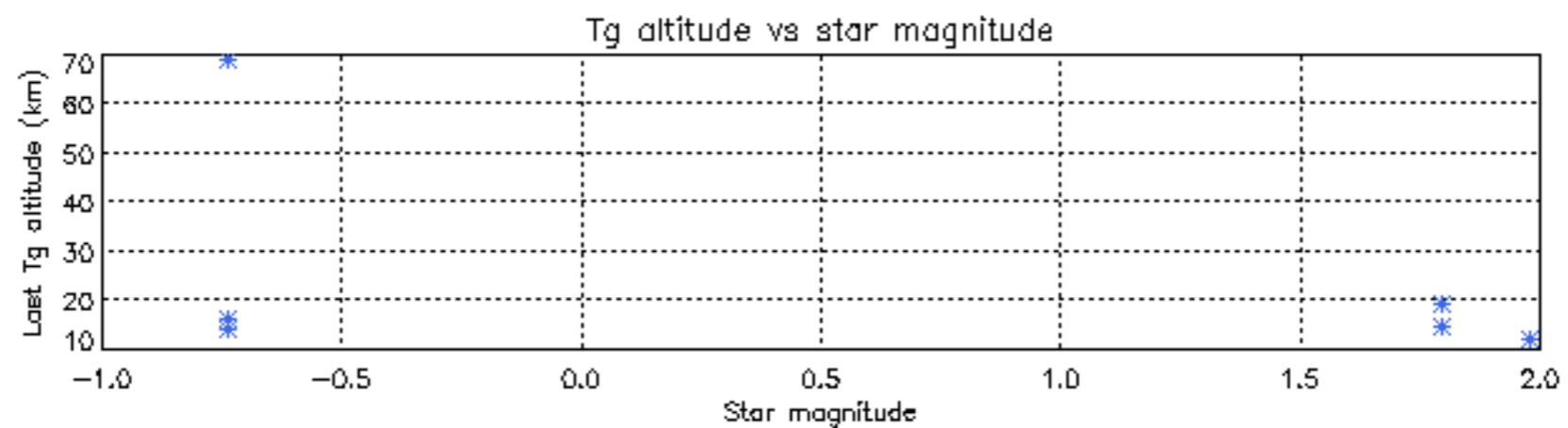
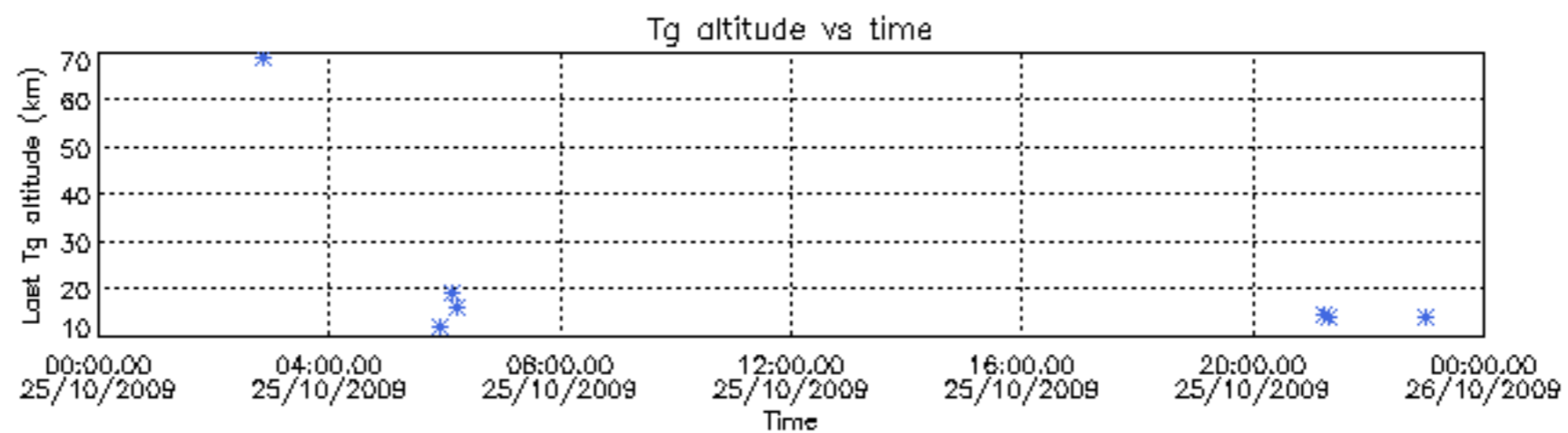
Percentage of star falling outside central band per profile



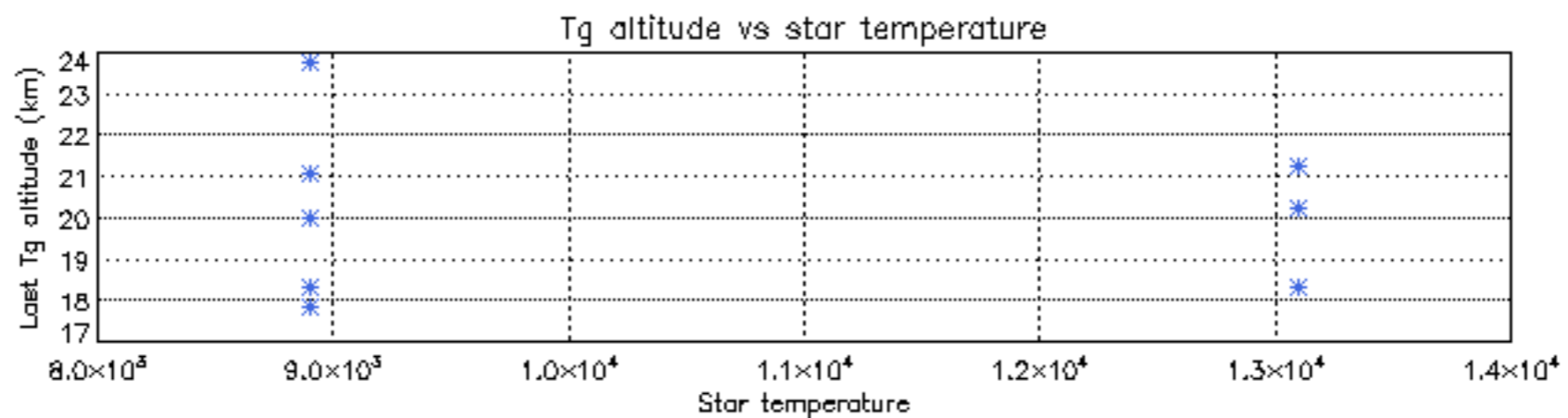
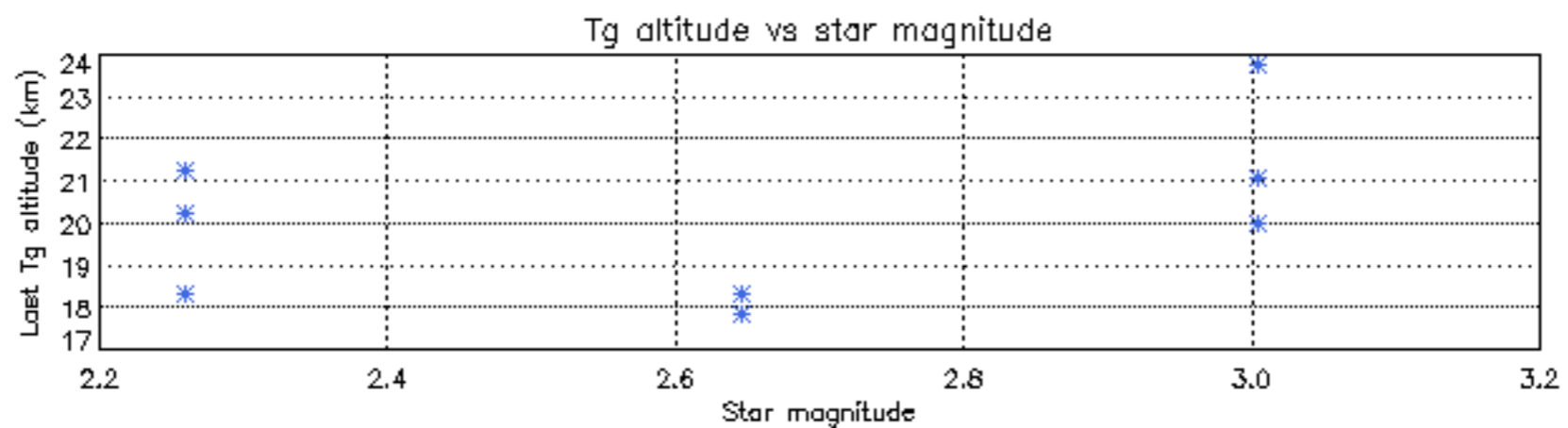
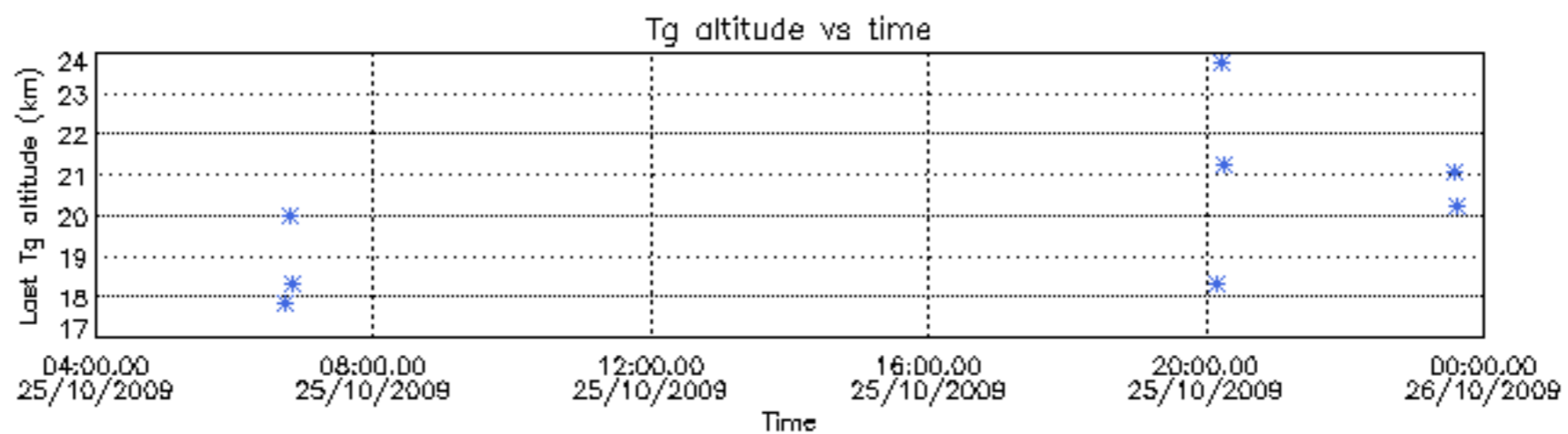
Percentage of saturation errors per profile

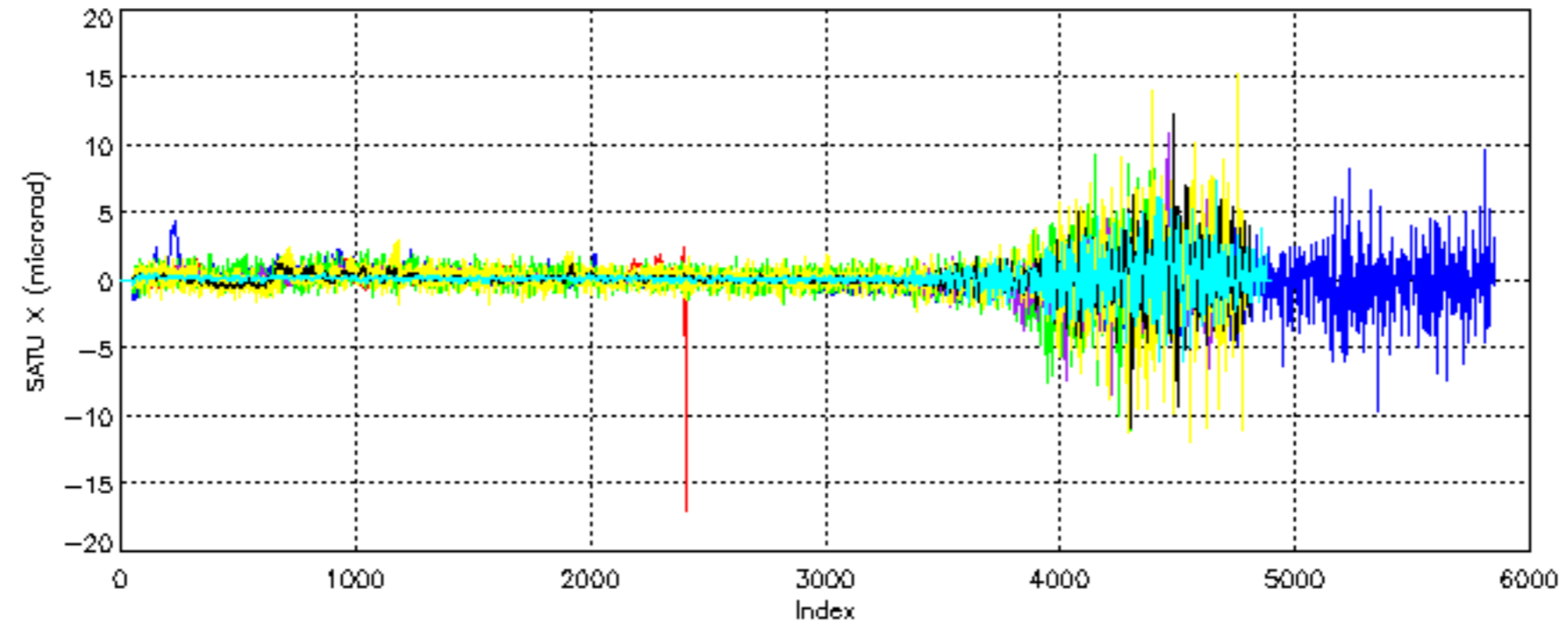


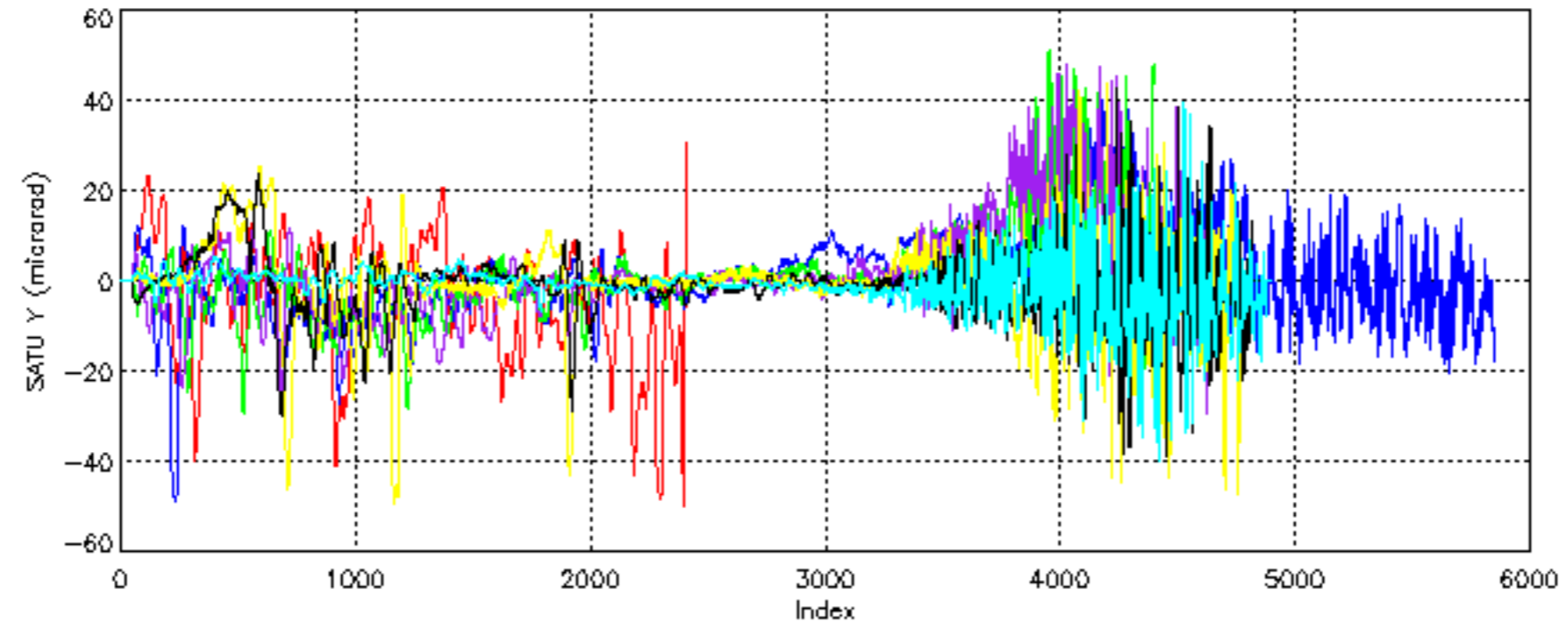
Tangent altitude at which the star is lost

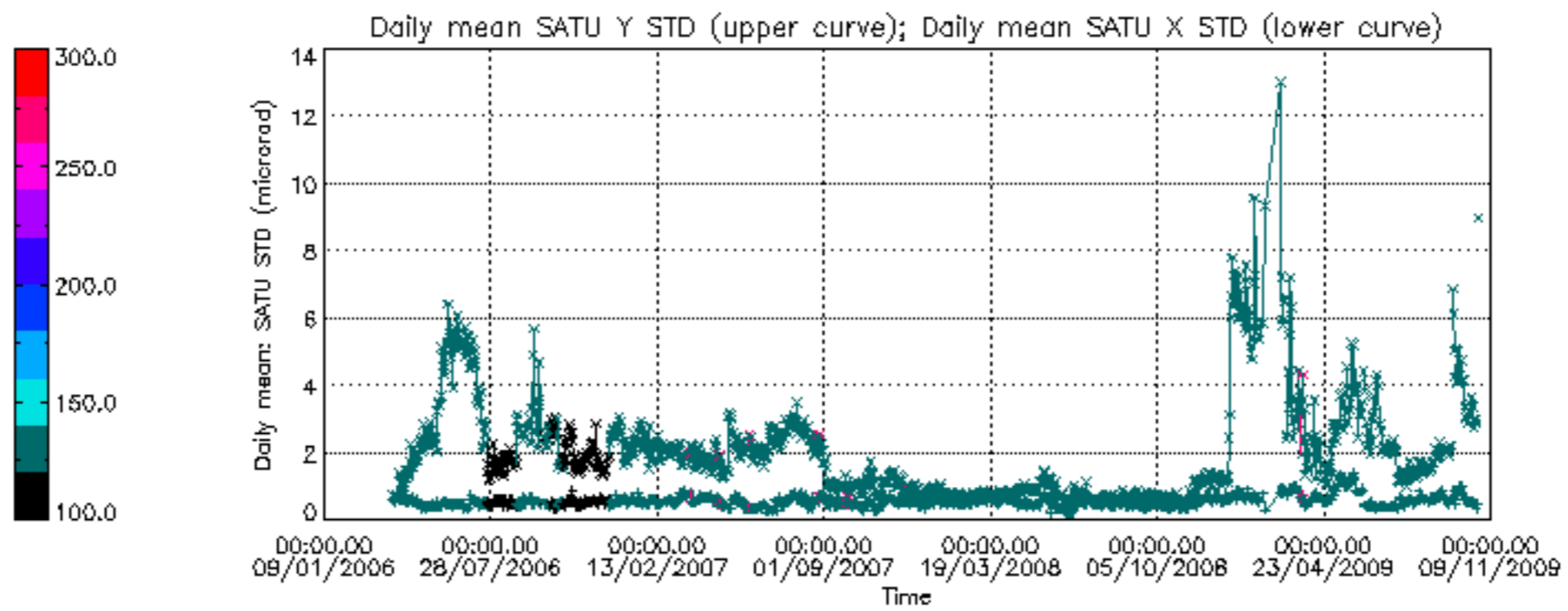


Tangent altitude at which the star is lost









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3; -128.1; 01-OCT-2009 00:15:14; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;39663
4; 97.3; 01-OCT-2009 00:18:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39664
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
8; 2184.9; 01-OCT-2009 00:53:47; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;39664
9; 2434.7; 01-OCT-2009 00:57:57; Bright; 35.0; 58; 21Alp And ; 2.07; 11000;occ; 70; 0;39664
10; 2659.8; 01-OCT-2009 01:01:42; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;39664
11; 2945.5; 01-OCT-2009 01:06:27; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39664
12; 3031.5; 01-OCT-2009 01:07:53; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;39664
13; 4601.5; 01-OCT-2009 01:34:03; Bright; 36.5; 17; 78Bet Gem ; 1.16; 4500;occ; 73; 0;39664
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2; -231.2; 01-OCT-2009 01:54:07; Dark ; 40.0; 88; 31Eta CMA ; 2.45; 20000;occ; 80; 0;39664
3; -126.7; 01-OCT-2009 01:55:51; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;39664
4; 98.5; 01-OCT-2009 01:59:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39665
5; 306.9; 01-OCT-2009 02:03:05; Dark ; 52.0; 108; Alp Col ; 2.65; 15200;occ; 104; 0;39665
6; 915.7; 01-OCT-2009 02:13:14; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;39665
7; 1557.1; 01-OCT-2009 02:23:55; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;39665
8; 2184.6; 01-OCT-2009 02:34:22; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;39665
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5; 99.7; 01-OCT-2009 03:40:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39666
6; 917.1; 01-OCT-2009 03:53:51; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;39666
7; 1557.3; 01-OCT-2009 04:04:31; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;39666
8; 2184.5; 01-OCT-2009 04:14:58; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;39666
9; 2434.3; 01-OCT-2009 04:19:08; Bright; 34.5; 58; 21Alp And ; 2.07; 11000;occ; 69; 0;39666
10; 2658.5; 01-OCT-2009 04:22:52; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;39666
11; 2944.9; 01-OCT-2009 04:27:39; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39666
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2; -447.2; 01-OCT-2009 05:11:43; Dark ; 36.0; 132; 15Rho Pup ; 2.80; 6900;occ; 72; 0;39666
3; -229.1; 01-OCT-2009 05:15:21; Dark ; 40.0; 88; 31Eta CMA ; 2.45; 20000;occ; 80; 0;39666
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5; 100.8; 01-OCT-2009 05:20:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39667
6; 917.8; 01-OCT-2009 05:34:28; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;39667
7; 1557.6; 01-OCT-2009 05:45:07; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;39667
8; 2184.7; 01-OCT-2009 05:55:34; Bright; 34.5; 140; 88Gam Peg ; 2.83; 26000;occ; 69; 0;39667
9; 2433.9; 01-OCT-2009 05:59:44; Bright; 35.0; 58; 21Alp And ; 2.07; 11000;occ; 70; 0;39667
10; 2657.7; 01-OCT-2009 06:03:27; Bright; 42.0; 53; 43Bet And ; 2.05; 3300;occ; 84; 0;39667
11; 2944.1; 01-OCT-2009 06:08:14; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;39667
12; 3030.2; 01-OCT-2009 06:09:40; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;39667
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2; 2182.6; 01-OCT-2009 21:00:56; Bright; 34.5; 140; 88Gam Peg ; 2.83; 26000;occ; 69; 0;39676
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4; 2651.9; 01-OCT-2009 21:08:45; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;39676
5; 2940.9; 01-OCT-2009 21:13:34; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39676
6; 3026.8; 01-OCT-2009 21:15:00; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;39676
7; 4604.6; 01-OCT-2009 21:41:18; Bright; 37.0; 17; 78Bet Gem ; 1.16; 4500;occ; 74; 0;39676
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3; -111.3; 01-OCT-2009 22:03:18; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;39676
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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7; 1558.9; 01-OCT-2009 22:31:08; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;39677
8; 2182.5; 01-OCT-2009 22:41:32; Bright; 34.5; 140; 88Gam Peg ; 2.83; 26000;occ; 69; 0;39677
9; 2431.3; 01-OCT-2009 22:45:40; Bright; 34.5; 58; 21Alp And ; 2.07; 11000;occ; 69; 0;39677
10; 2651.2; 01-OCT-2009 22:49:20; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;39677
11; 2940.6; 01-OCT-2009 22:54:10; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39677
12; 3026.5; 01-OCT-2009 22:55:36; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;39677
13; 4604.8; 01-OCT-2009 23:21:54; Bright; 37.5; 17; 78Bet Gem ; 1.16; 4500;occ; 75; 0;39677
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3; -110.2; 01-OCT-2009 23:43:55; Dark ; 45.5; 23; 21Eps CMA ; 1.50; 26000;occ; 91; 0;39677
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5; 327.1; 01-OCT-2009 23:51:12; Dark ; 52.5; 108; Alp Col ; 2.65; 15200;occ; 105; 0;39678
6; 925.2; 02-OCT-2009 00:01:10; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;39678
7; 1559.0; 02-OCT-2009 00:11:44; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;39678
8; 2182.3; 02-OCT-2009 00:22:07; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;39678
9; 2430.9; 02-OCT-2009 00:26:16; Bright; 35.0; 58; 21Alp And ; 2.07; 11000;occ; 70; 0;39678
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12; 3026.1; 02-OCT-2009 00:36:11; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;39678
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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6; 311.5; 01-OCT-2009 07:04:57; Dark ; 52.5; 108; Alp Col ; 2.65; 15200;occ; 105; 0;39668
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3; 2656.6; 01-OCT-2009 09:24:38; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;39669
4; 2943.5; 01-OCT-2009 09:29:25; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;39669
5; 3029.4; 01-OCT-2009 09:30:51; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;39669
6; 4602.9; 01-OCT-2009 09:57:05; Bright; 37.5; 17; 78Bet Gem ; 1.16; 4500;occ; 75; 0;39669
7; 5591.4; 01-OCT-2009 10:13:33; Dark ; 35.5; 132; 15Rho Pup ; 2.80; 6900;occ; 71; 0;39669
8; 5810.2; 01-OCT-2009 10:17:12; Dark ; 40.5; 88; 31Eta CMA ; 2.45; 20000;occ; 81; 0;39669
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8; 5593.0; 01-OCT-2009 13:34:46; Dark ; 36.0; 132; 15Rho Pup ; 2.80; 6900;occ; 72; 0;39671
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3; 2431.9; 01-OCT-2009 16:03:17; Bright; 24.5; 58; 21Alp And ; 2.07; 11000;occ; 49; 0;39673
4; 2653.4; 01-OCT-2009 16:06:59; Bright; 23.0; 53; 43Bet And ; 2.05; 3300;occ; 46; 0;39673
5; 2943.9; 01-OCT-2009 16:11:49; Bright; 16.5; 68; 18Alp Cas ; 2.22; 4500;occ; 33; 0;39673
6; 3029.5; 01-OCT-2009 16:13:15; Bright; 16.0; 76; 27Gam Cas ; 2.30; 30000;occ; 32; 0;39673
7; 4604.3; 01-OCT-2009 16:39:30; Bright; 14.0; 17; 78Bet Gem ; 1.16; 4500;occ; 28; 0;39673
8; 5595.7; 01-OCT-2009 16:56:01; Dark ; 16.5; 132; 15Rho Pup ; 2.80; 6900;occ; 33; 0;39673
9; 5815.8; 01-OCT-2009 16:59:41; Dark ; 19.0; 88; 31Eta CMA ; 2.45; 20000;occ; 38; 0;39673
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7; 2939.6; 02-OCT-2009 03:55:56; Bright; 34.0; 68; 18Alp Cas ; 2.22; 4500;occ; 68; 0;39680
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4; 2642.7; 02-OCT-2009 20:36:59; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;39690
5; 2936.0; 02-OCT-2009 20:41:52; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;39690
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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; 2690.0; 26-OCT-2009 01:16:35; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;40022
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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; 2568.9; 26-OCT-2009 06:16:22; Bright; 2.0; 173; 4Bet Tri ; 3.00; 8900;occ; 4; 0;40025
3; 2688.2; 26-OCT-2009 06:18:21; Bright; 3.5; 73; 57Gam1And ; 2.26; 13100;occ; 7; 0;40025
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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
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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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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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