

# GOMOS Daily Report 11-MAY-2009

## Level 0 and Level 1 products

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## [Level 2 products](#)

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	14MAY2009 04:36:33
Data source version	GOMOS/5.00
Start time of products	11MAY2009 00:06:00
Stop time of products	11MAY2009 05:54:36
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

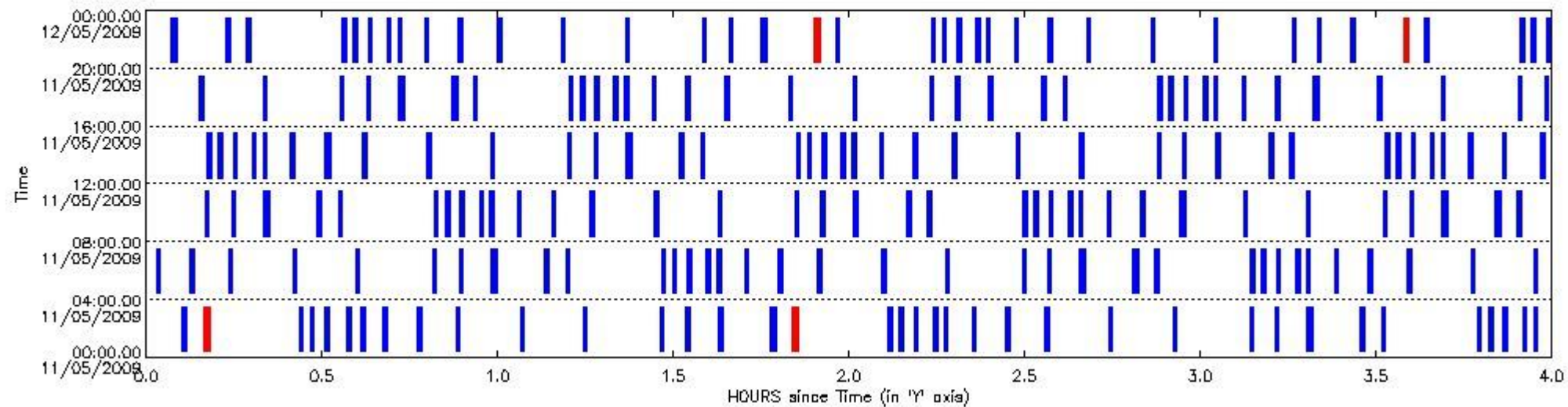
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

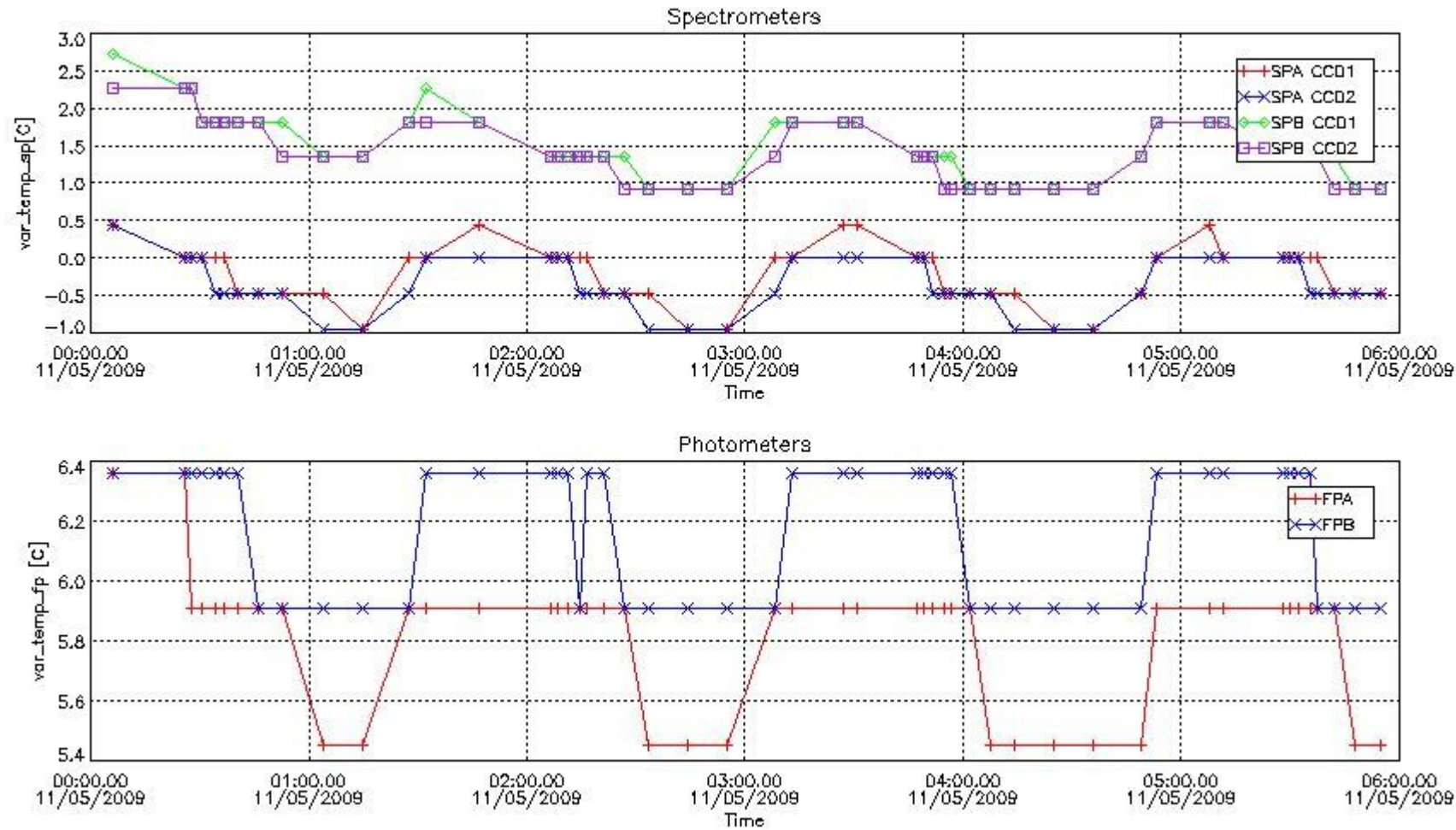
UTC start time	Star name	Star ID	Orbit
11-MAY-2009 00:09:43	GamGru	172	37616
11-MAY-2009 01:50:20	GamGru	172	37617
11-MAY-2009 21:54:07	49DelCap	142	37629
11-MAY-2009 23:34:44	49DelCap	142	37630

### 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_1PNPDE20090511_000600_000000532078_00488_37616_9943.N1	11-MAY-2009 00:06:00	Dark	53.000	142	49Del Cap	2.8500	8900.0	106	37616	No
2	GOM_TRA_1PNPDE20090511_002605_000000422078_00489_37617_9944.N1	11-MAY-2009 00:26:05	Straylight	41.500	40	The Sco	1.8590	7100.0	83	37617	No
3	GOM_TRA_1PNPDE20090511_002756_000000452078_00489_37617_9945.N1	11-MAY-2009 00:27:56	Straylight	45.000	25	35Lam Sco	1.6200	28000.	90	37617	No
4	GOM_TRA_1PNPDE20090511_003030_000000422078_00489_37617_9946.N1	11-MAY-2009 00:30:30	Straylight	42.000	75	26Eps Sco	2.2910	4250.0	84	37617	No
5	GOM_TRA_1PNPDE20090511_003416_000000422078_00489_37617_9947.N1	11-MAY-2009 00:34:16	Twilight_stray	41.500	156	20Sig Sco	2.9030	28000.	83	37617	No
6	GOM_TRA_1PNPDE20090511_003636_000000412078_00489_37617_9948.N1	11-MAY-2009 00:36:36	Bright	40.500	97	8Bet1Sco	2.5610	30000.	81	37617	No
7	GOM_TRA_1PNPDE20090511_004026_000000372078_00489_37617_9949.N1	11-MAY-2009 00:40:26	Bright	37.000	104	27Bet Lib	2.6140	13100.	74	37617	No

8	GOM_TRA_1PNPDE20090511_004611_000000452078_00489_37617_9950.N1	11-MAY-2009 00:46:11	Bright	44.500	102	24Alp Ser	2.6000	4250.0	89	37617	No
9	GOM_TRA_1PNPDE20090511_005250_000000452078_00489_37617_9951.N1	11-MAY-2009 00:52:50	Bright	45.000	67	5Alp CrB	2.2210	11000.	90	37617	No
10	GOM_TRA_1PNPDE20090511_010348_000000392078_00489_37617_9952.N1	11-MAY-2009 01:03:48	Bright	39.000	119	14Eta Dra	2.7270	4700.0	78	37617	No
11	GOM_TRA_1PNPDE20090511_011439_000000352078_00489_37617_9953.N1	11-MAY-2009 01:14:39	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	37617	No
12	GOM_TRA_1PNPDE20090511_012745_000000342078_00489_37617_9954.N1	11-MAY-2009 01:27:45	Twilight	33.500	93	53Bet Peg	2.5200	3100.0	67	37617	No
13	GOM_TRA_1PNPDE20090511_013209_000000352078_00489_37617_9955.N1	11-MAY-2009 01:32:09	Dark	34.500	90	54Alp Peg	2.4870	11000.	69	37617	No
14	GOM_TRA_1PNPDE20090511_014637_000000532078_00489_37617_0089.N1	11-MAY-2009 01:46:37	Dark	53.000	142	49Del Cap	2.8500	8900.0	106	37617	No
15	GOM_TRA_1PNPDE20090511_020641_000000422078_00490_37618_0090.N1	11-MAY-2009 02:06:41	Straylight	42.000	40	The Sco	1.8590	7100.0	84	37618	No
16	GOM_TRA_1PNPDE20090511_020832_000000452078_00490_37618_0091.N1	11-MAY-2009 02:08:32	Straylight	45.000	25	35Lam Sco	1.6200	28000.	90	37618	No
17	GOM_TRA_1PNPDE20090511_021107_000000422078_00490_37618_0092.N1	11-MAY-2009 02:11:07	Straylight	42.000	75	26Eps Sco	2.2910	4250.0	84	37618	No
18	GOM_TRA_1PNPDE20090511_021424_000000422078_00490_37618_0093.N1	11-MAY-2009 02:14:24	Twilight	42.000	16	21Alp Sco	1.0200	3000.0	84	37618	No
19	GOM_TRA_1PNPDE20090511_021616_000000392078_00490_37618_0094.N1	11-MAY-2009 02:16:16	Bright	39.000	80	7Del Sco	2.3160	30000.	78	37618	No
20	GOM_TRA_1PNPDE20090511_022102_000000372078_00490_37618_0095.N1	11-MAY-2009 02:21:02	Bright	37.000	104	27Bet Lib	2.6140	13100.	74	37618	No
21	GOM_TRA_1PNPDE20090511_022647_000000452078_00490_37618_0096.N1	11-MAY-2009 02:26:47	Bright	44.500	102	24Alp Ser	2.6000	4250.0	89	37618	No
22	GOM_TRA_1PNPDE20090511_023325_000000442078_00490_37618_0097.N1	11-MAY-2009 02:33:25	Bright	43.500	67	5Alp CrB	2.2210	11000.	87	37618	No
23	GOM_TRA_1PNPDE20090511_024423_000000382078_00490_37618_0098.N1	11-MAY-2009 02:44:23	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	37618	No
24	GOM_TRA_1PNPDE20090511_025514_000000352078_00490_37618_0099.N1	11-MAY-2009 02:55:14	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	37618	No
25	GOM_TRA_1PNPDE20090511_030821_000000342078_00490_37618_0248.N1	11-MAY-2009 03:08:21	Twilight	33.500	93	53Bet Peg	2.5200	3100.0	67	37618	No
26	GOM_TRA_1PNPDE20090511_031245_000000352078_00490_37618_0249.N1	11-MAY-2009 03:12:45	Dark	34.500	90	54Alp Peg	2.4870	11000.	69	37618	No
27	GOM_TRA_1PNPDE20090511_032715_000000532078_00490_37618_0250.N1	11-MAY-2009 03:27:15	Dark	53.000	142	49Del Cap	2.8500	8900.0	106	37618	No
28	GOM_TRA_1PNPDE20090511_033056_000000412078_00490_37618_0251.N1	11-MAY-2009 03:30:56	Dark	41.000	172	Gam Gru	3.0030	13100.	82	37618	No
29	GOM_TRA_1PNPDE20090511_034718_000000422078_00491_37619_0252.N1	11-MAY-2009 03:47:18	Straylight	41.500	40	The Sco	1.8590	7100.0	83	37619	No
30	GOM_TRA_1PNPDE20090511_034909_000000452078_00491_37619_0253.N1	11-MAY-2009 03:49:09	Straylight	45.000	25	35Lam Sco	1.6200	28000.	90	37619	No
31	GOM_TRA_1PNPDE20090511_035143_000000422078_00491_37619_0254.N1	11-MAY-2009 03:51:43	Straylight	42.000	75	26Eps Sco	2.2910	4250.0	84	37619	No
32	GOM_TRA_1PNPDE20090511_035501_000000432078_00491_37619_0255.N1	11-MAY-2009 03:55:01	Twilight	42.500	16	21Alp Sco	1.0200	3000.0	85	37619	No
33	GOM_TRA_1PNPDE20090511_035652_000000402078_00491_37619_0256.N1	11-MAY-2009 03:56:52	Bright	39.500	80	7Del Sco	2.3160	30000.	79	37619	No
34	GOM_TRA_1PNPDE20090511_040138_000000372078_00491_37619_0257.N1	11-MAY-2009 04:01:38	Bright	36.500	104	27Bet Lib	2.6140	13100.	73	37619	No
35	GOM_TRA_1PNPDE20090511_040723_000000442078_00491_37619_0258.N1	11-MAY-2009 04:07:23	Bright	44.000	102	24Alp Ser	2.6000	4250.0	88	37619	No
36	GOM_TRA_1PNPDE20090511_041401_000000442078_00491_37619_0259.N1	11-MAY-2009 04:14:01	Bright	44.000	67	5Alp CrB	2.2210	11000.	88	37619	No
37	GOM_TRA_1PNPDE20090511_042459_000000382078_00491_37619_0260.N1	11-MAY-2009 04:24:59	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	37619	No
38	GOM_TRA_1PNPDE20090511_043550_000000352078_00491_37619_0407.N1	11-MAY-2009 04:35:50	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	37619	No
39	GOM_TRA_1PNPDE20090511_044857_000000342078_00491_37619_0408.N1	11-MAY-2009 04:48:57	Twilight	33.500	93	53Bet Peg	2.5200	3100.0	67	37619	No
40	GOM_TRA_1PNPDE20090511_045322_000000352078_00491_37619_0409.N1	11-MAY-2009 04:53:22	Dark	34.500	90	54Alp Peg	2.4870	11000.	69	37619	No
41	GOM_TRA_1PNPDE20090511_050752_000000542078_00491_37619_0410.N1	11-MAY-2009 05:07:52	Dark	53.500	142	49Del Cap	2.8500	8900.0	107	37619	No
42	GOM_TRA_1PNPDE20090511_051133_000000412078_00491_37619_0411.N1	11-MAY-2009 05:11:33	Dark	41.000	172	Gam Gru	3.0030	13100.	82	37619	No
43	GOM_TRA_1PNPDE20090511_052754_000000422078_00492_37620_0412.N1	11-MAY-2009 05:27:54	Straylight	42.000	40	The Sco	1.8590	7100.0	84	37620	No
44	GOM_TRA_1PNPDE20090511_052946_000000452078_00492_37620_0413.N1	11-MAY-2009 05:29:46	Straylight	45.000	25	35Lam Sco	1.6200	28000.	90	37620	No
45	GOM_TRA_1PNPDE20090511_053220_000000422078_00492_37620_0414.N1	11-MAY-2009 05:32:20	Straylight	42.000	75	26Eps Sco	2.2910	4250.0	84	37620	No
46	GOM_TRA_1PNPDE20090511_053537_000000432078_00492_37620_0415.N1	11-MAY-2009 05:35:37	Twilight	42.500	16	21Alp Sco	1.0200	3000.0	85	37620	No
47	GOM_TRA_1PNPDE20090511_053728_000000402078_00492_37620_0416.N1	11-MAY-2009 05:37:28	Bright	39.500	80	7Del Sco	2.3160	30000.	79	37620	No
48	GOM_TRA_1PNPDE20090511_054214_000000372078_00492_37620_0417.N1	11-MAY-2009 05:42:14	Bright	36.500	104	27Bet Lib	2.6140	13100.	73	37620	No
49	GOM_TRA_1PNPDE20090511_054758_000000452078_00492_37620_0418.N1	11-MAY-2009 05:47:58	Bright	44.500	102	24Alp Ser	2.6000	4250.0	89	37620	No
50	GOM_TRA_1PNPDE20090511_055436_000000462078_00492_37620_0419.N1	11-MAY-2009 05:54:36	Bright	45.500	67	5Alp CrB	2.2210	11000.	91	37620	No

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



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

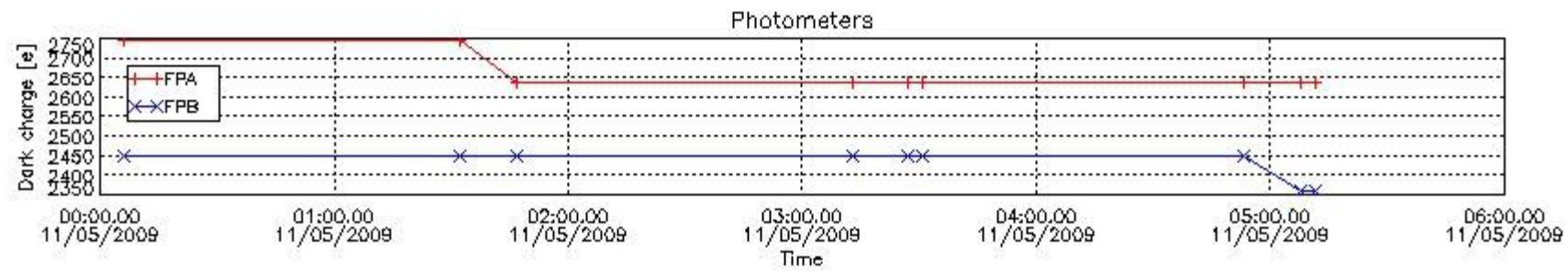
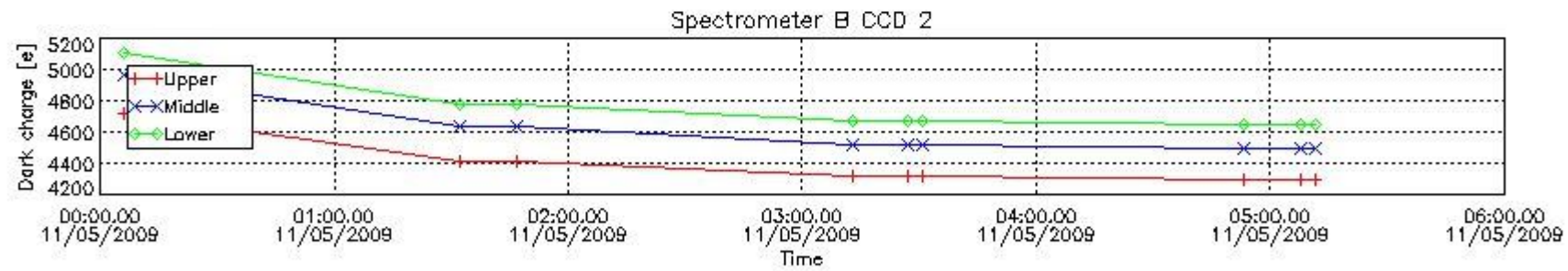
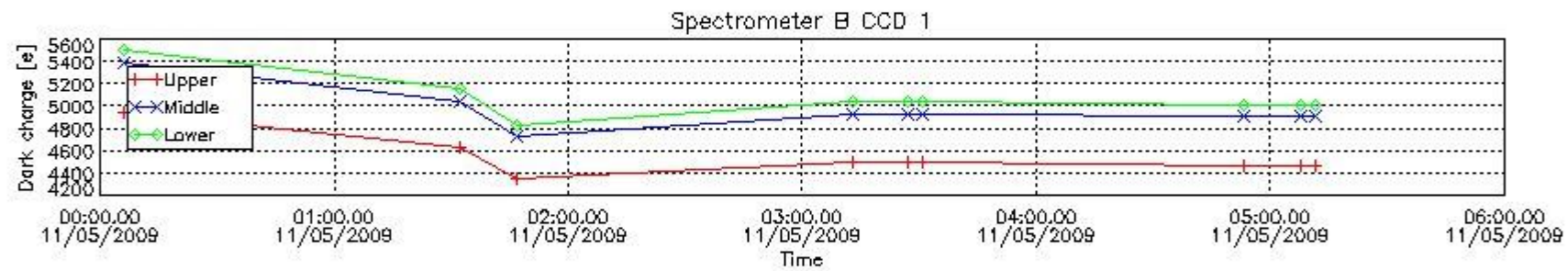
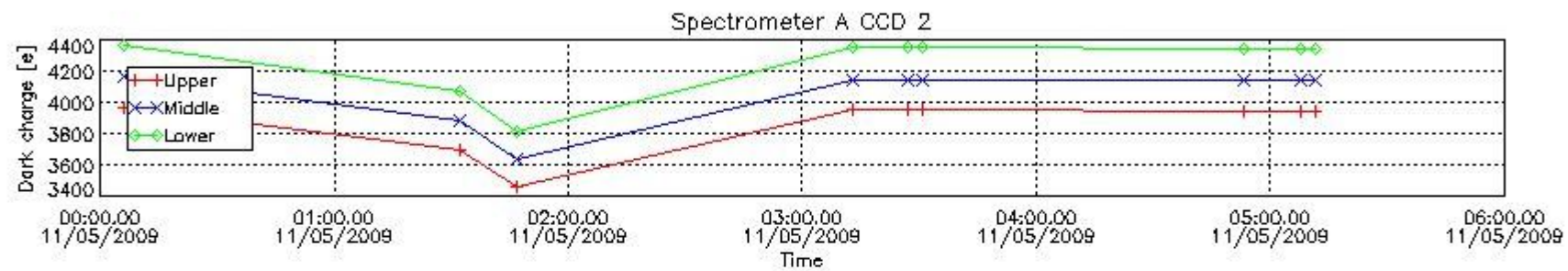
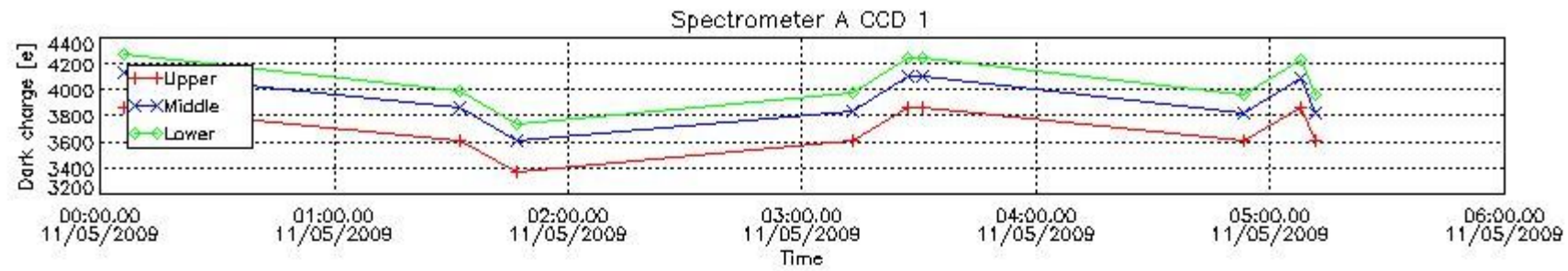
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

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

##### 4.1 All products used the DSA observation for the DC computation

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





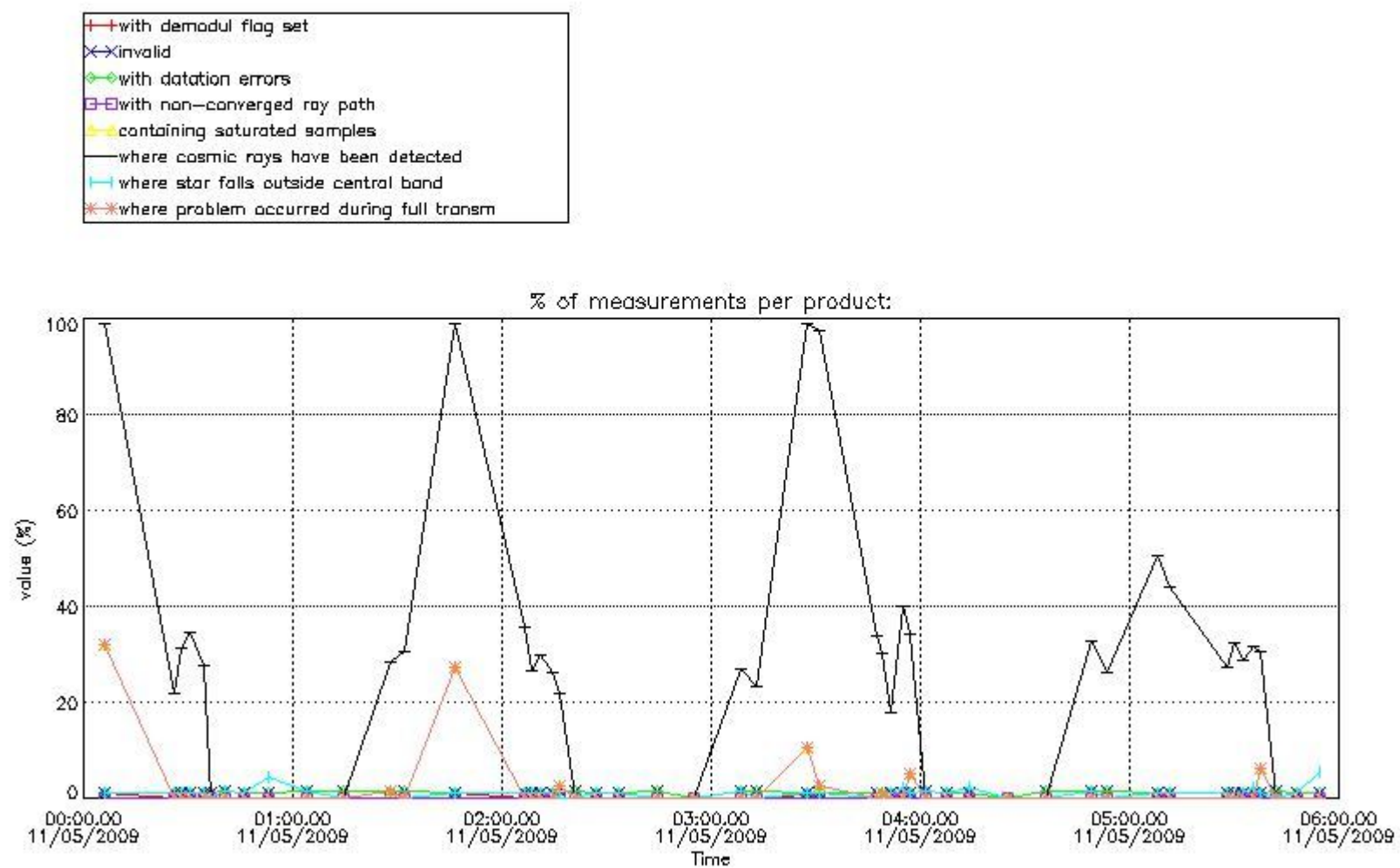
## 5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

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

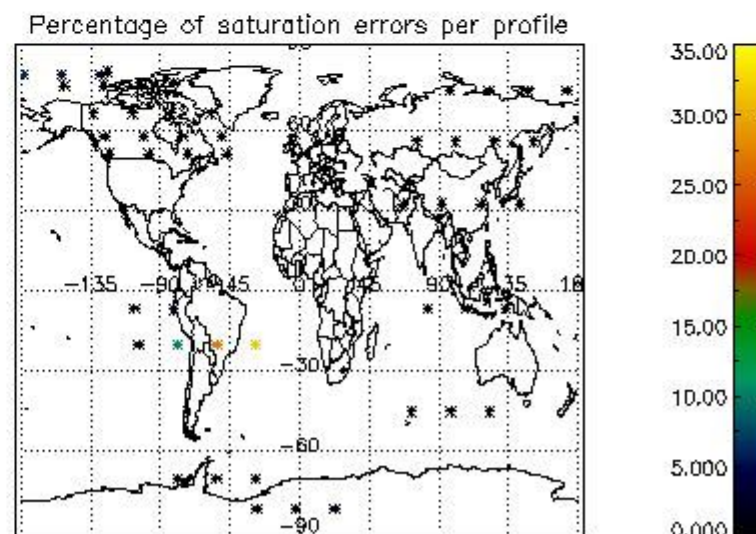
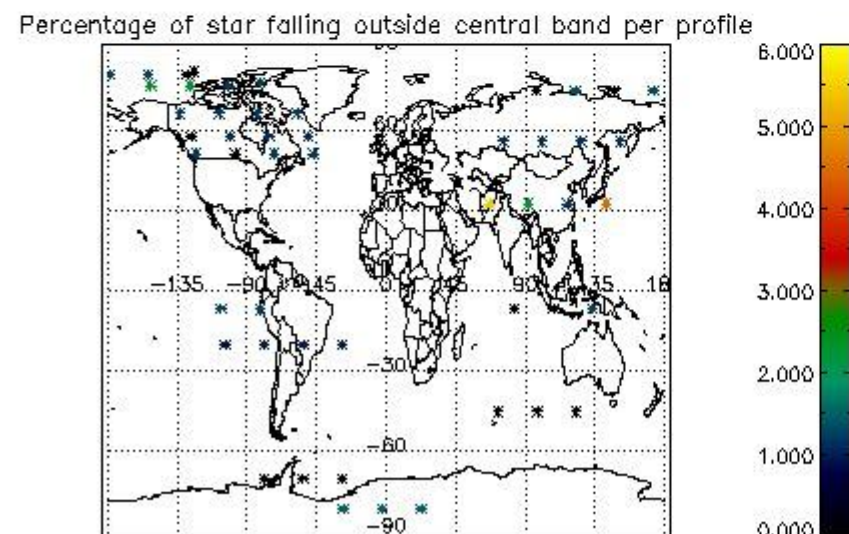
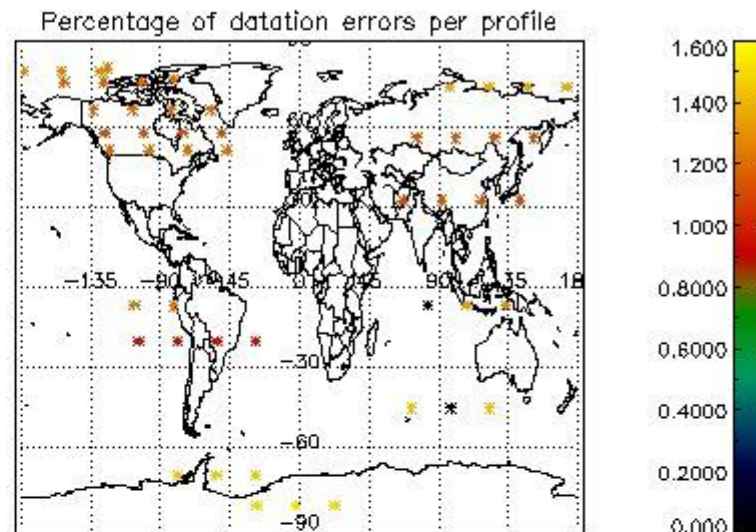
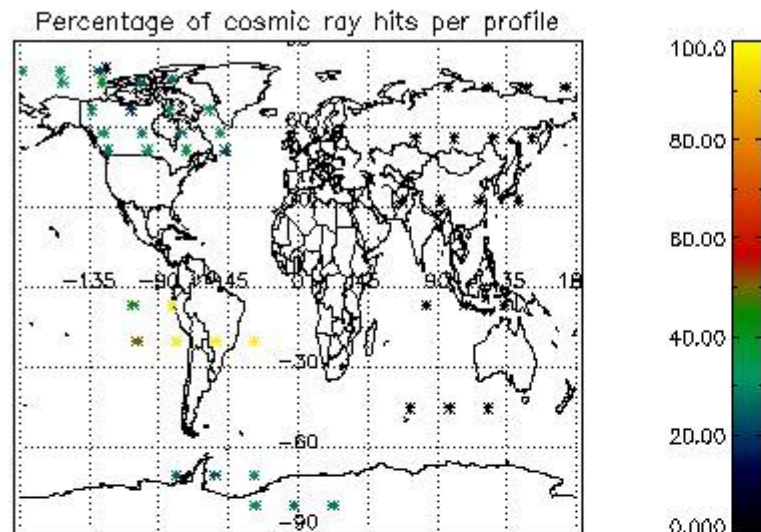
At least one measurement with demodulation flag set:	34.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





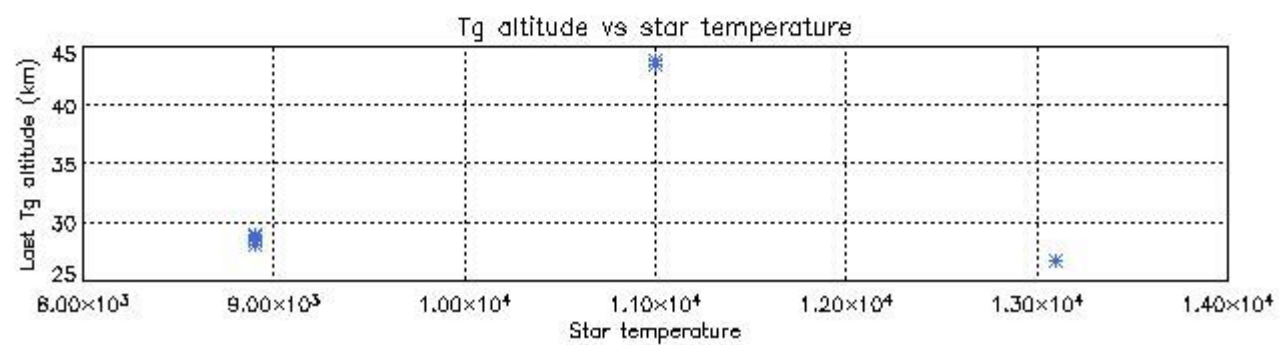
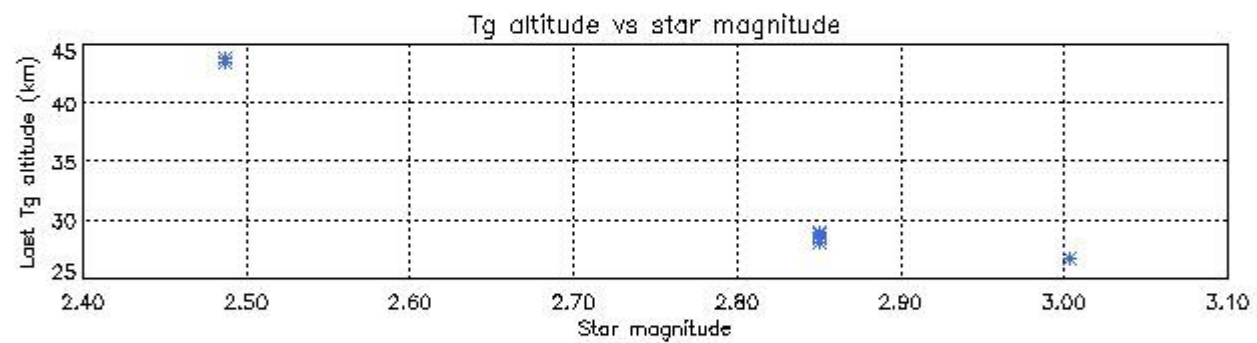
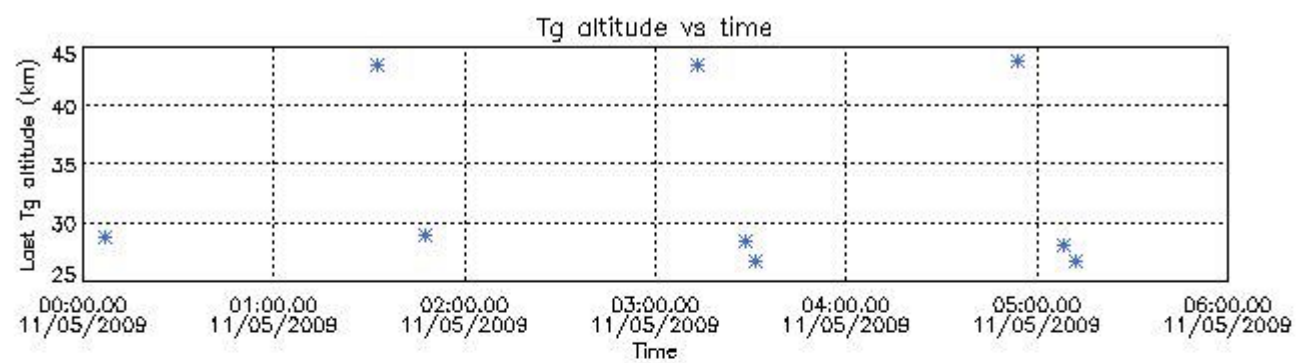
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	33.139	29.726	NaN
St. deviation:	7.8522	5.0741	NaN
Maximum:	43.725	41.121	NaN
Minimum:	26.664	21.737	NaN
Number of data:	9.0000	22.000	NaN

### 6.2 Plot for DARK limb products

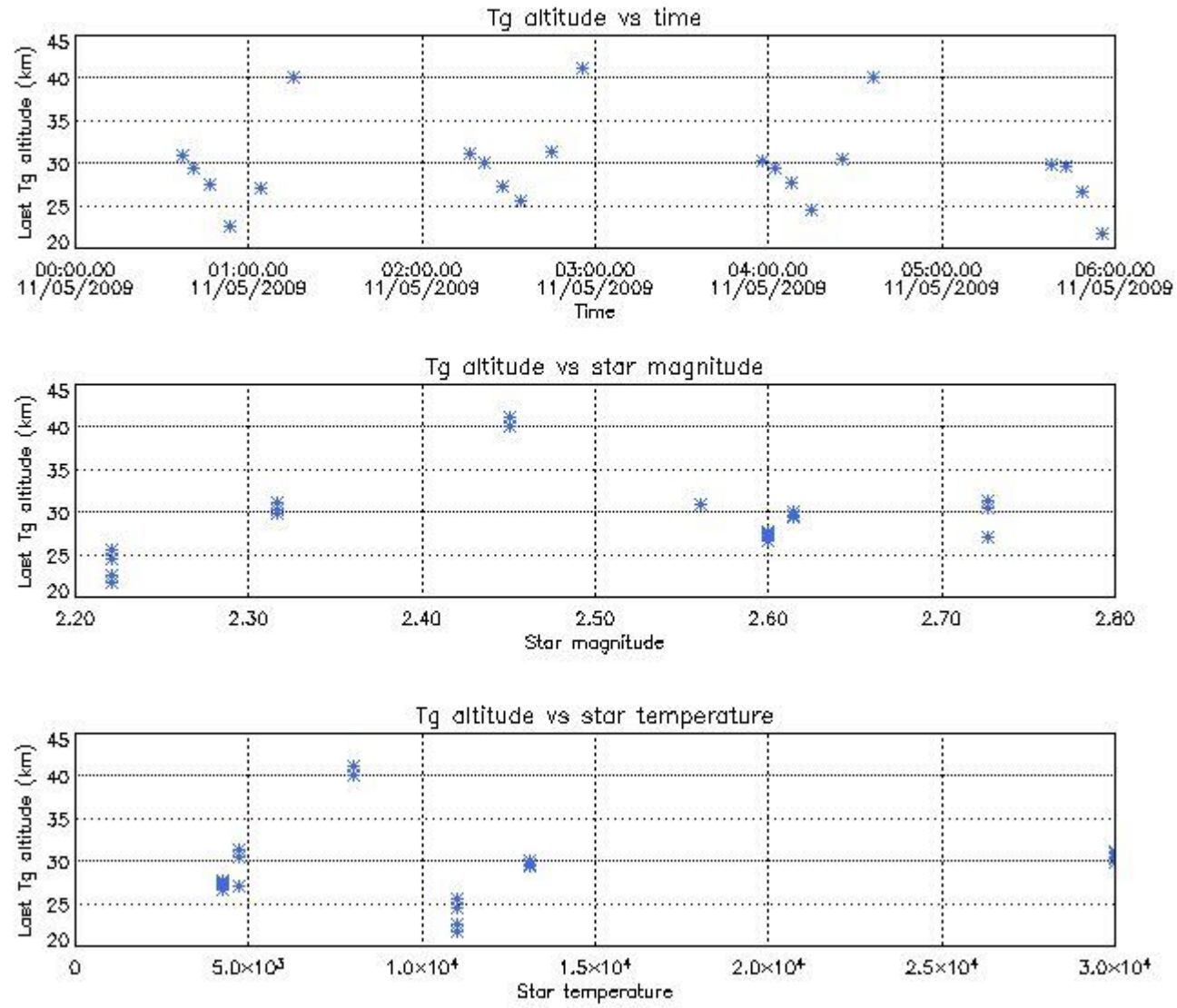
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

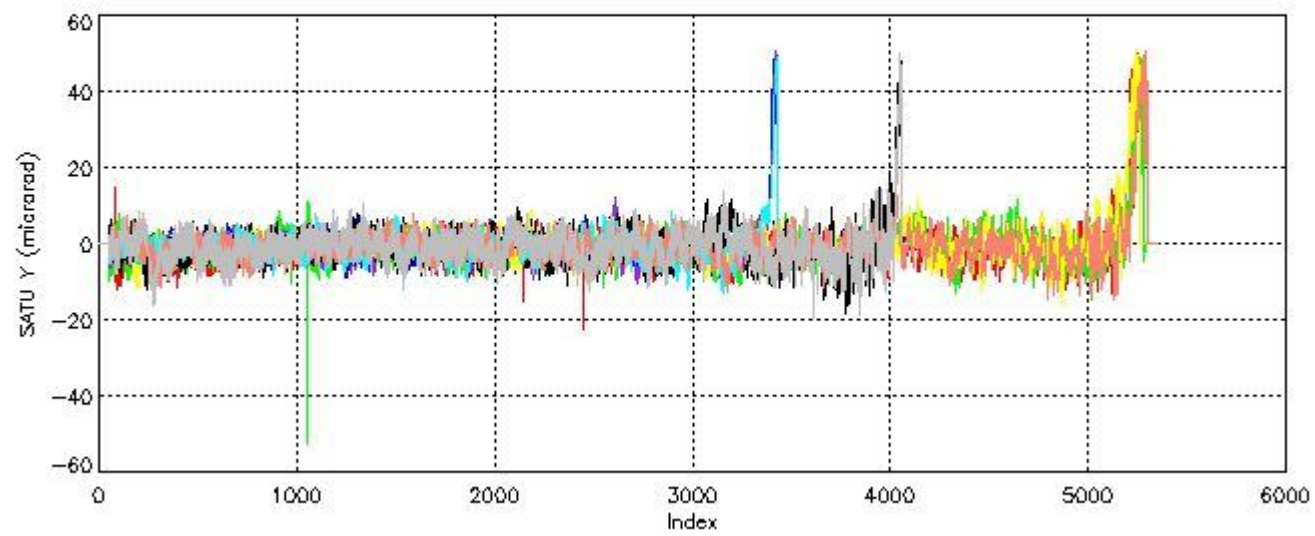
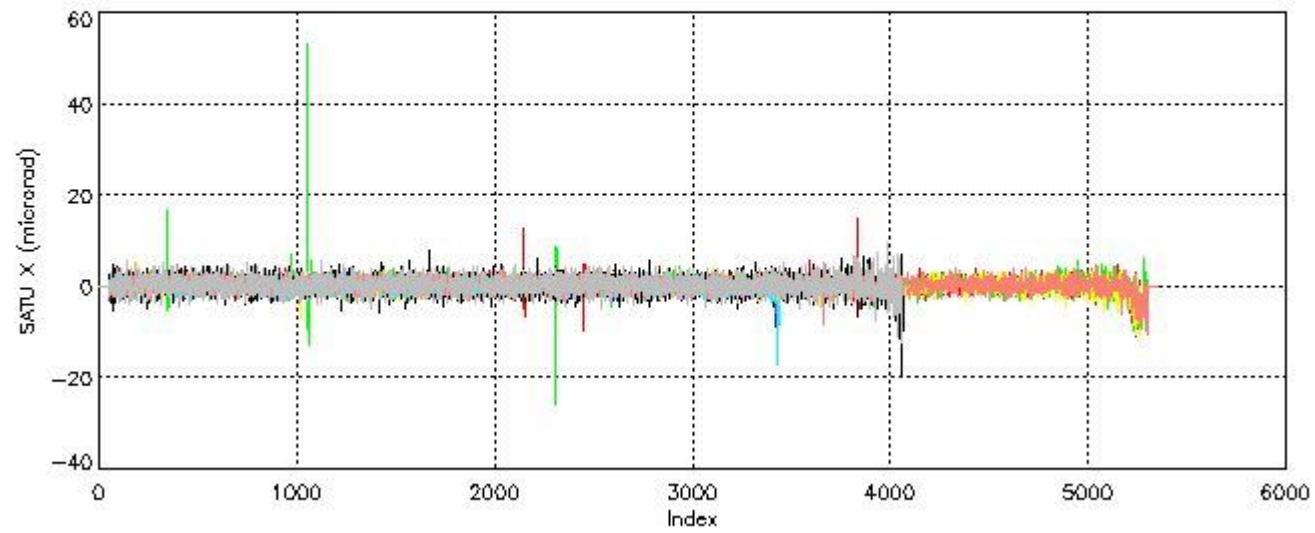


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.32824	-1.3219	0.39655	-1.4735
St. deviation:	1.2806	2.8171	0.90821	2.2692
Maximum:	52.800	14.600	4.8000	6.6000
Minimum:	-12.700	-52.800	-3.5000	-13.500

Number of data:	11150.	11150.	22700.	22700.
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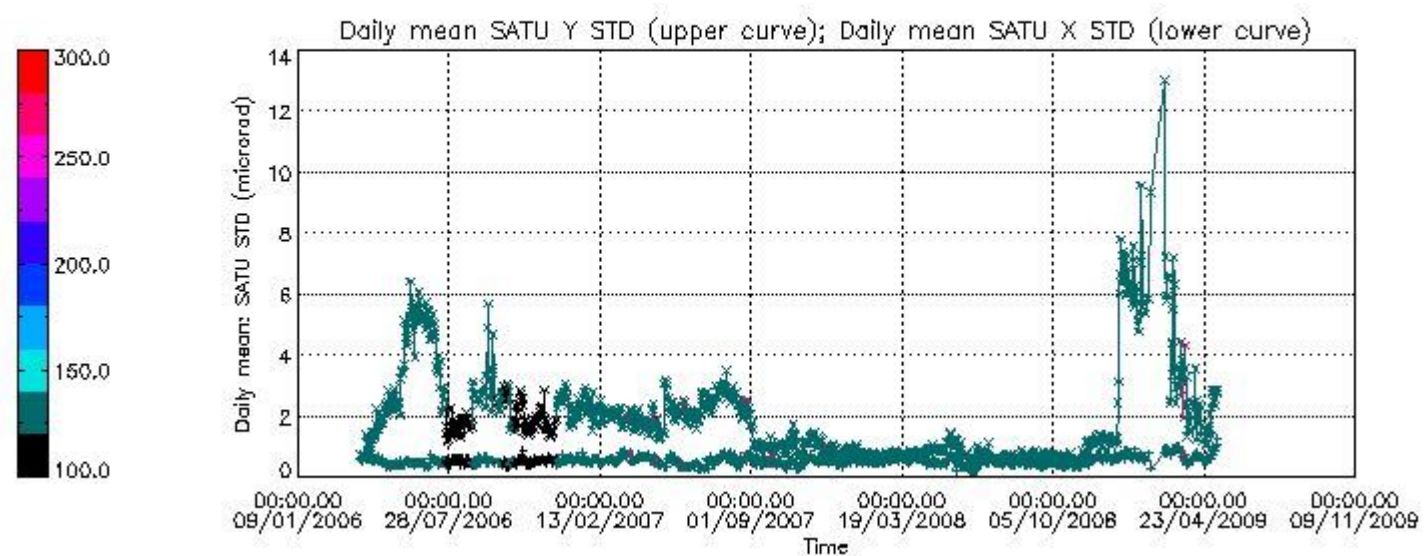
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

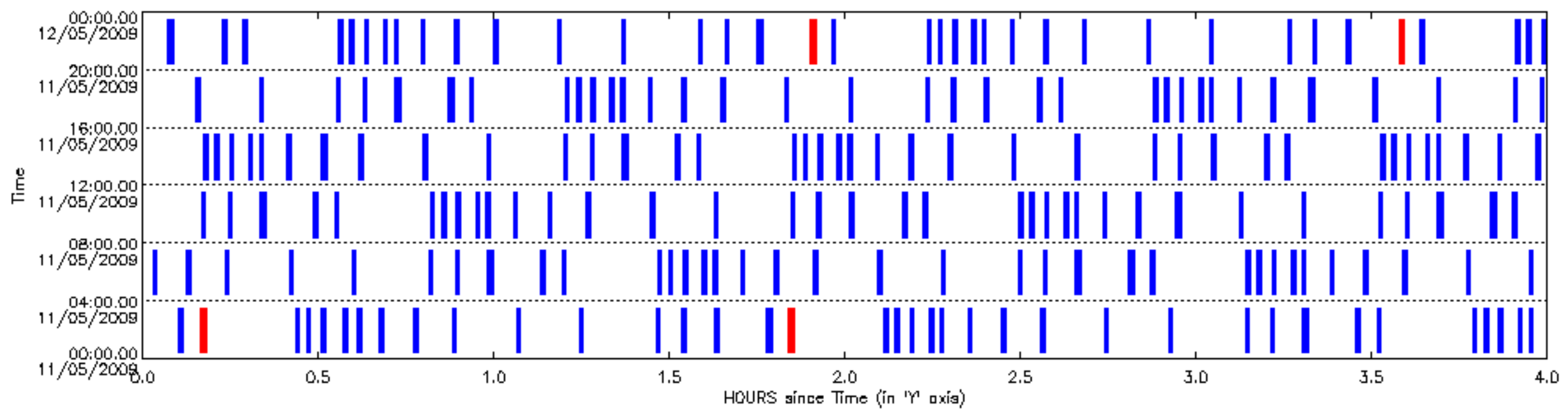


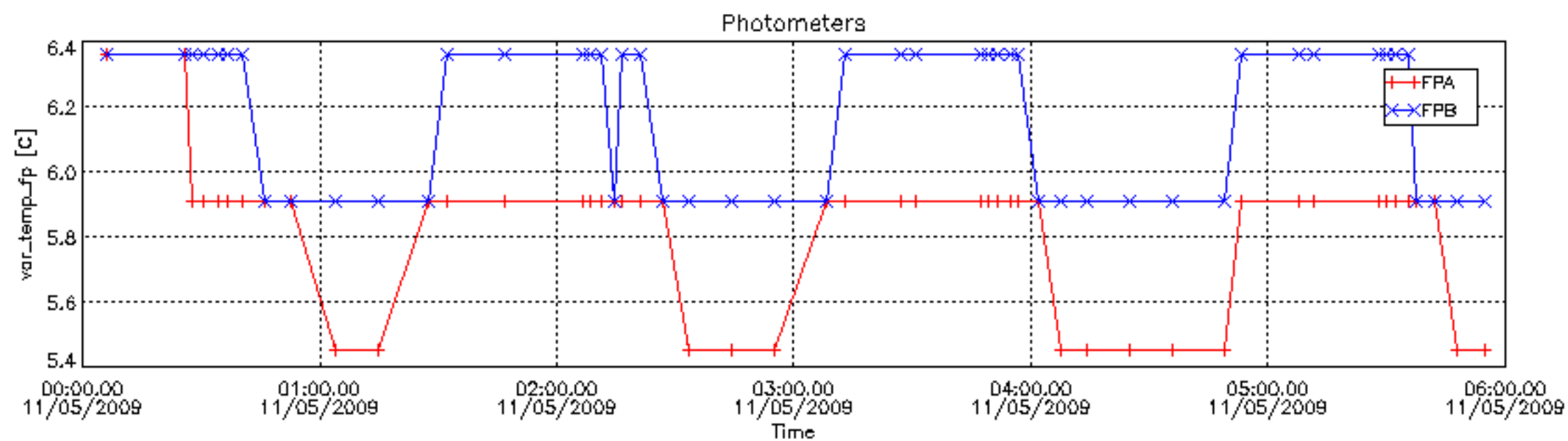
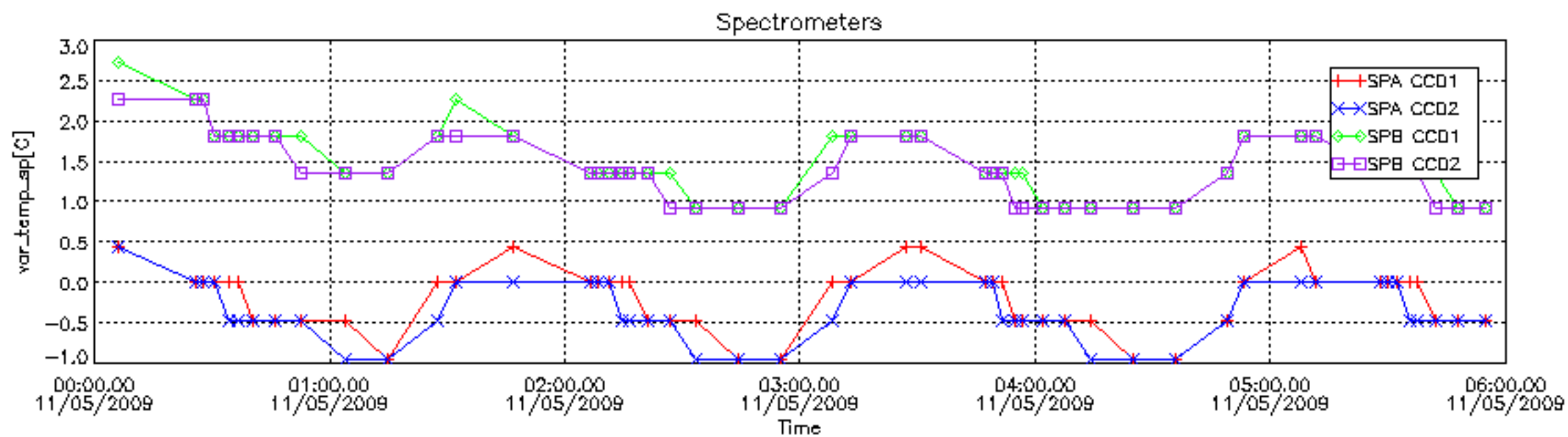
### 8. Auxiliary Data Files used for the production reported in section 2.4

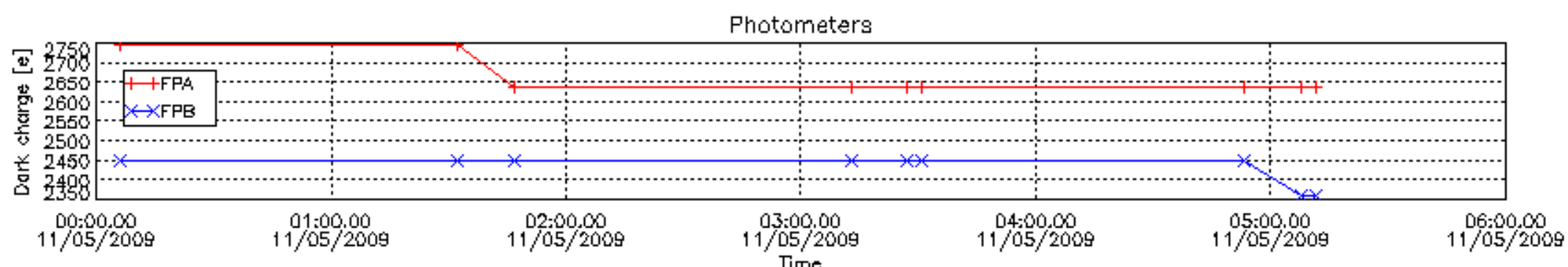
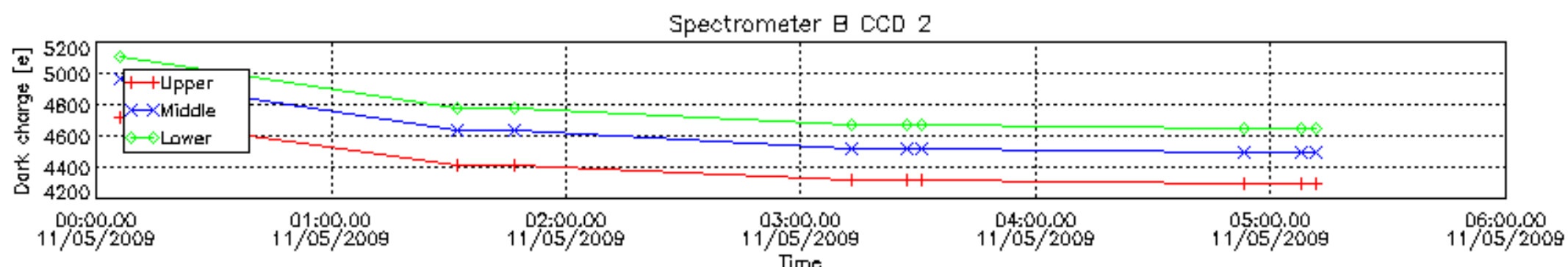
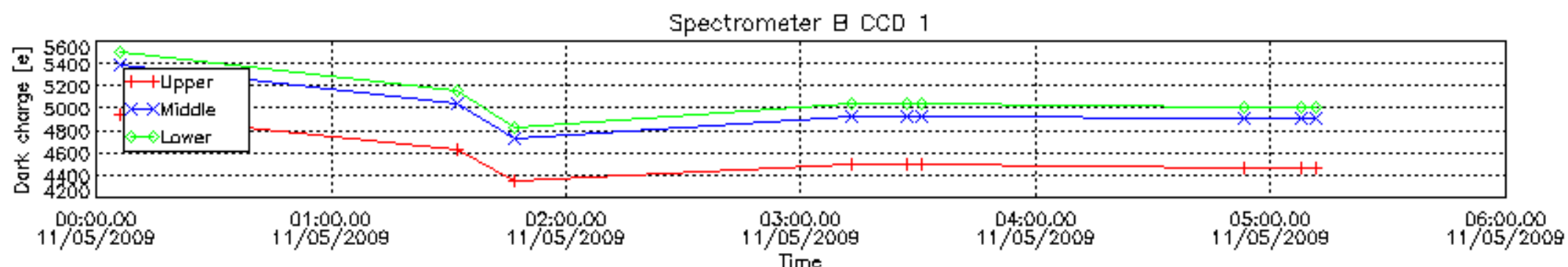
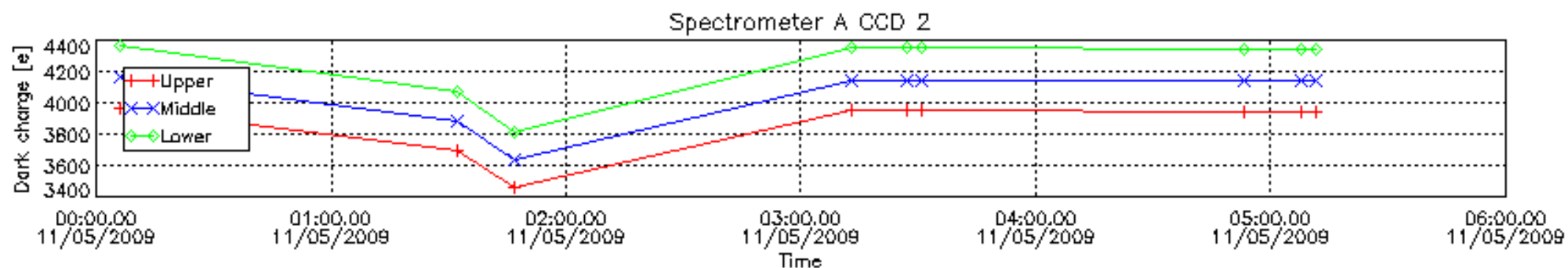
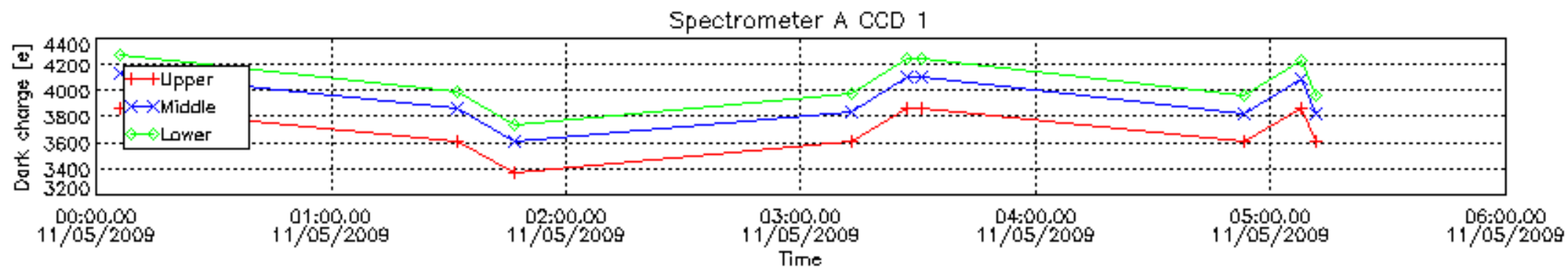
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	11-MAY-2009 00:06:00
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090430_144945_20090428_000000_20100101_000000	1	11-MAY-2009 00:06:00
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	11-MAY-2009 00:06:00
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	11-MAY-2009 00:06:00
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	11-MAY-2009 00:06:00
ECMWF_FILE	AUX_ECF_AXNECM20090510_064113_20090510_210000_20090511_090000	1	11-MAY-2009 00:06:00
ECMWF_FILE	AUX_ECF_AXNECM20090510_184113_20090511_030000_20090511_150000	25	11-MAY-2009 03:08:21
OPTIONAL_ECMWF_FILE	MISSING	1	11-MAY-2009 00:06:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090510_221520_000057382078_00487_37615_7919.N1	1	11-MAY-2009 00:06:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090510_235617_000057382078_00488_37616_7920.N1	14	11-MAY-2009 01:46:37
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090511_013714_000044632078_00489_37617_7921.N1	25	11-MAY-2009 03:08:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090511_025656_000054192078_00490_37618_7922.N1	38	11-MAY-2009 04:35:50





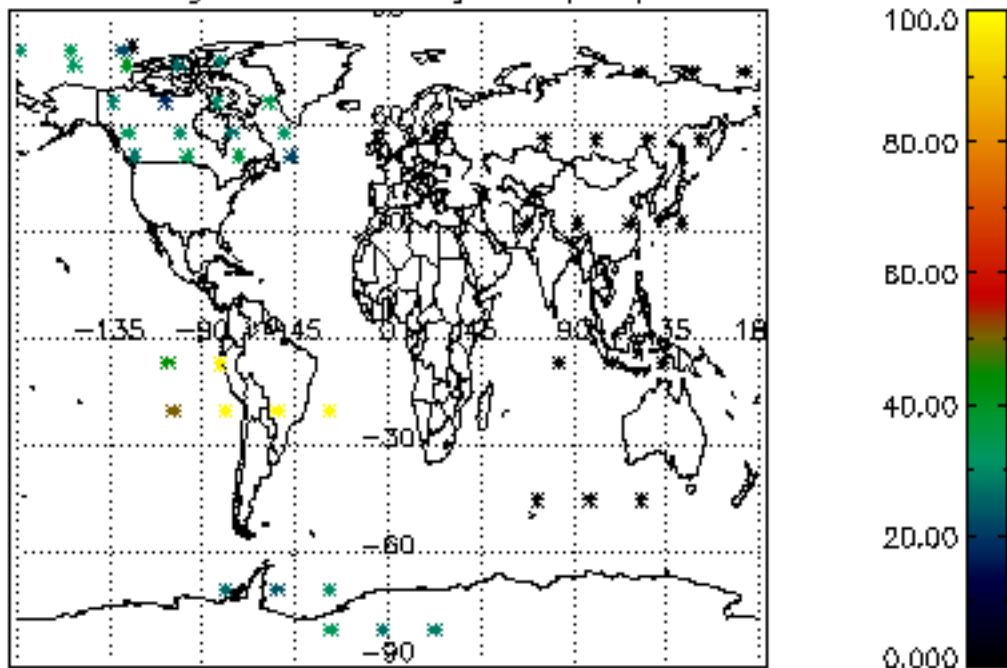




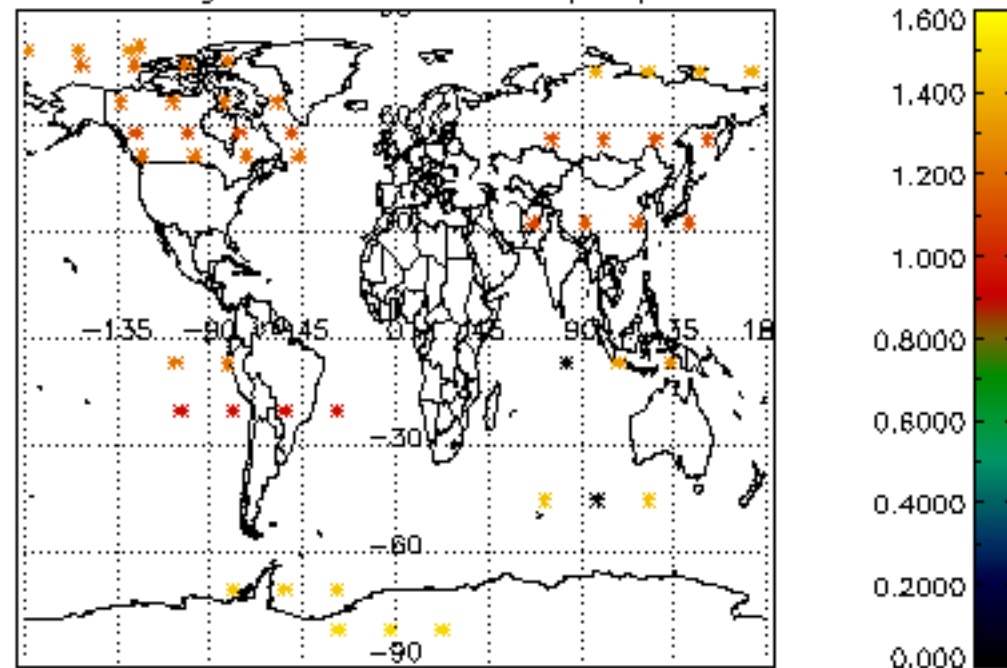




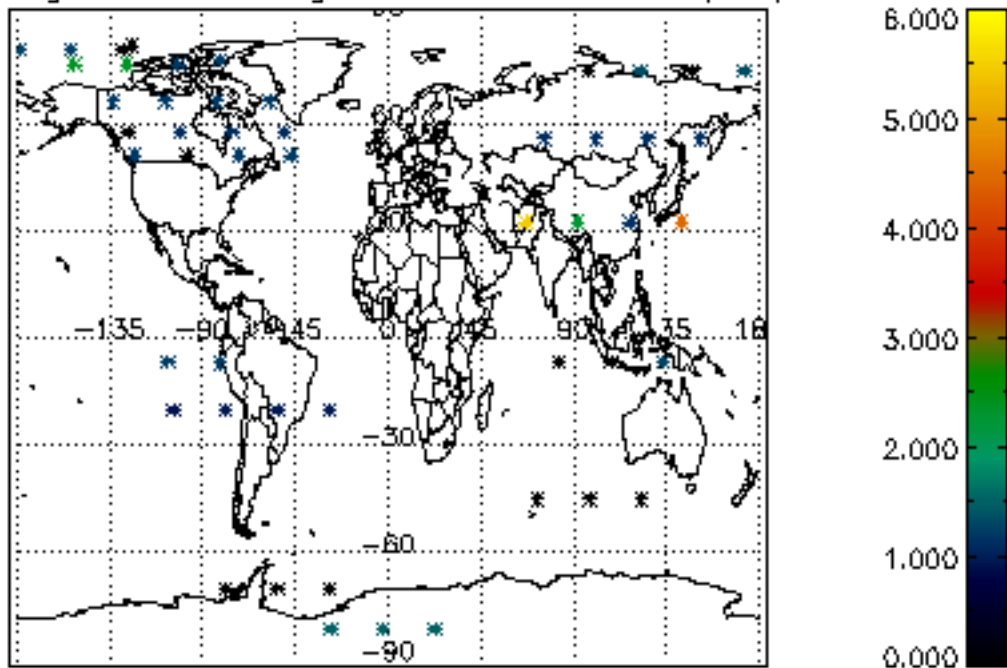
Percentage of cosmic ray hits per profile



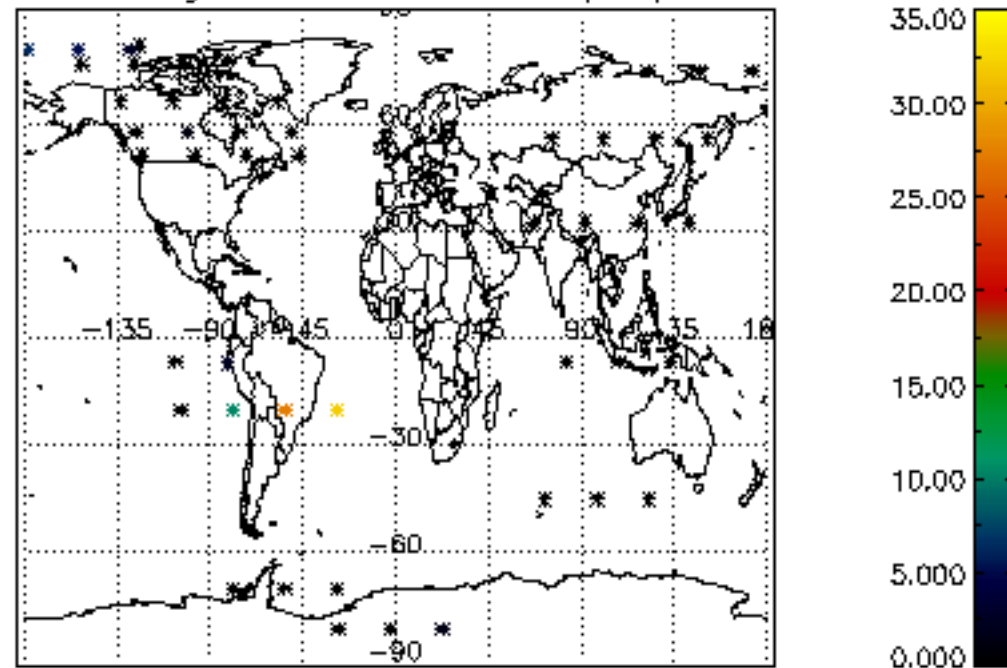
Percentage of datation errors per profile



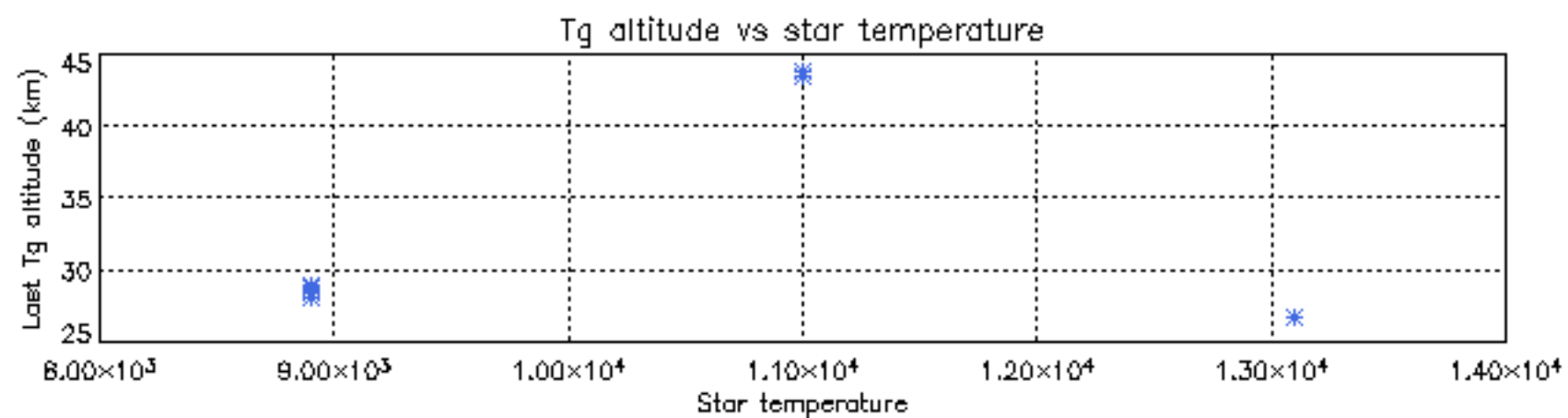
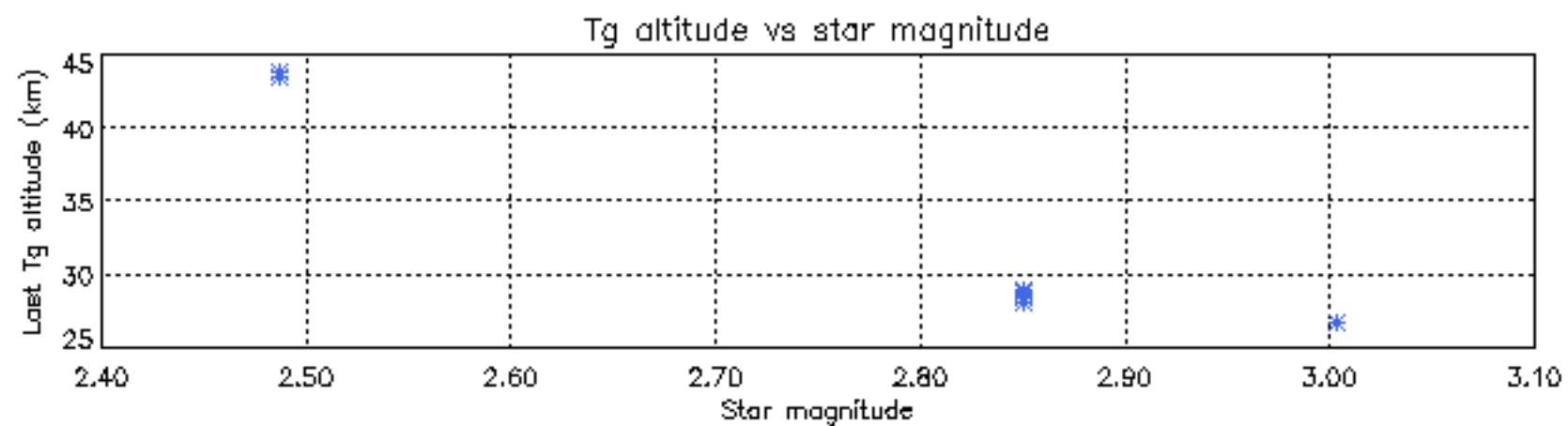
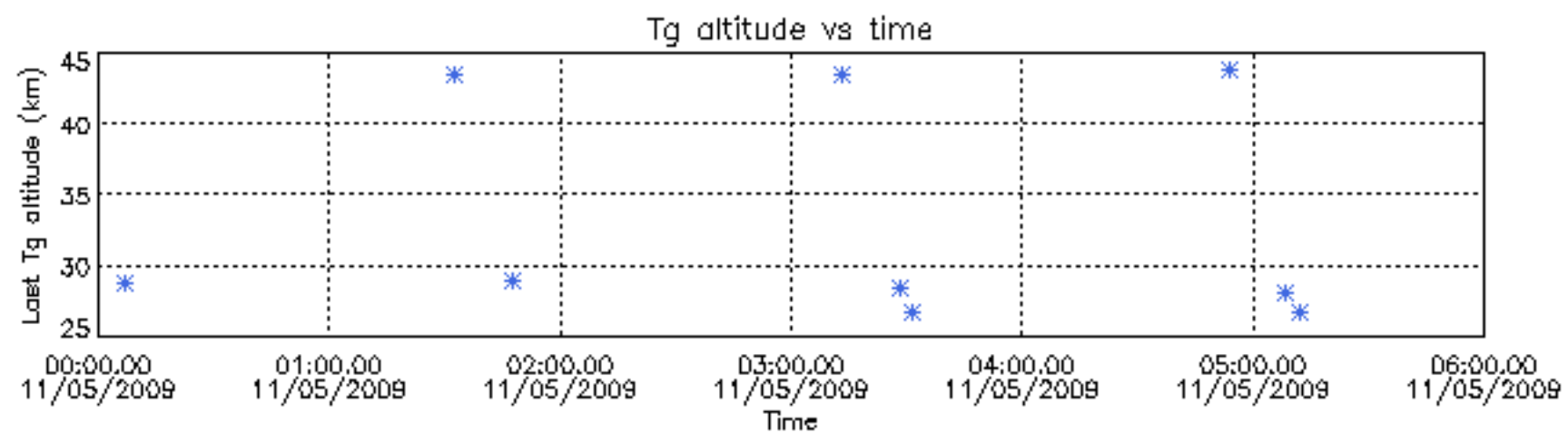
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

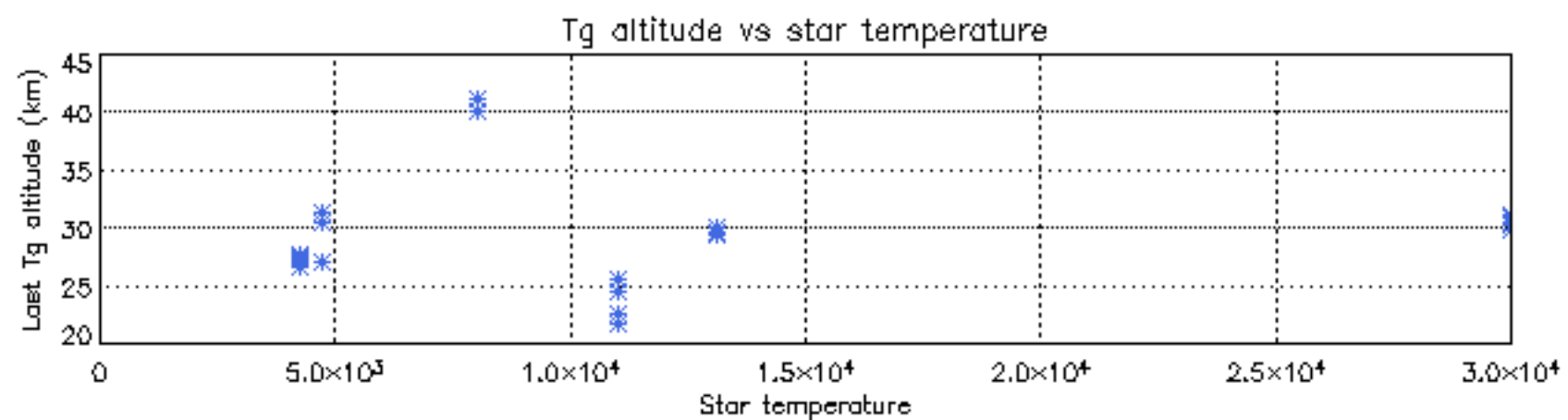
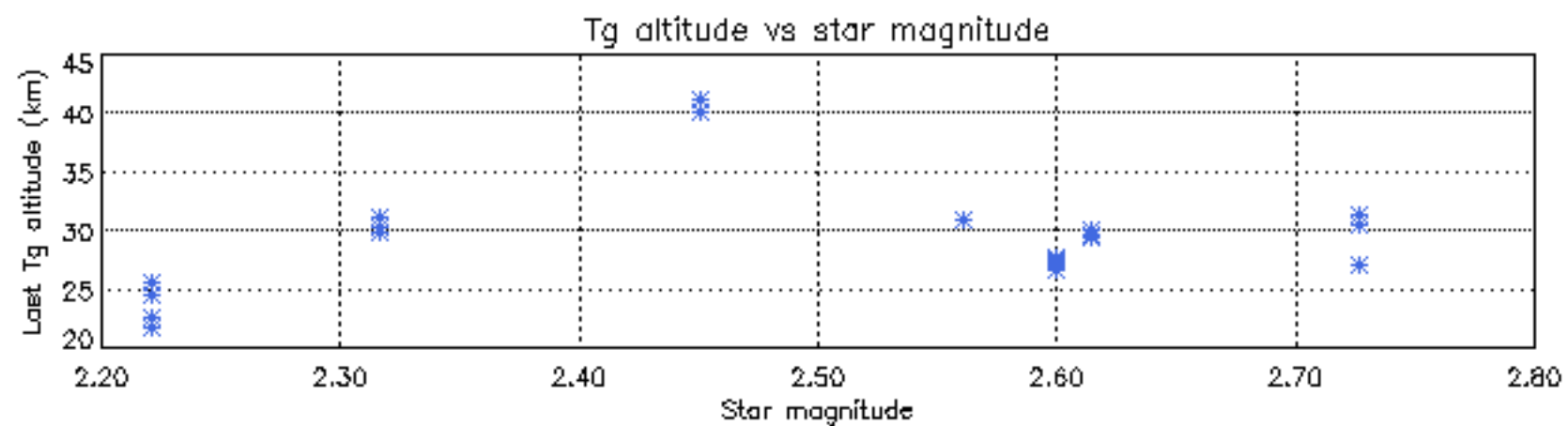
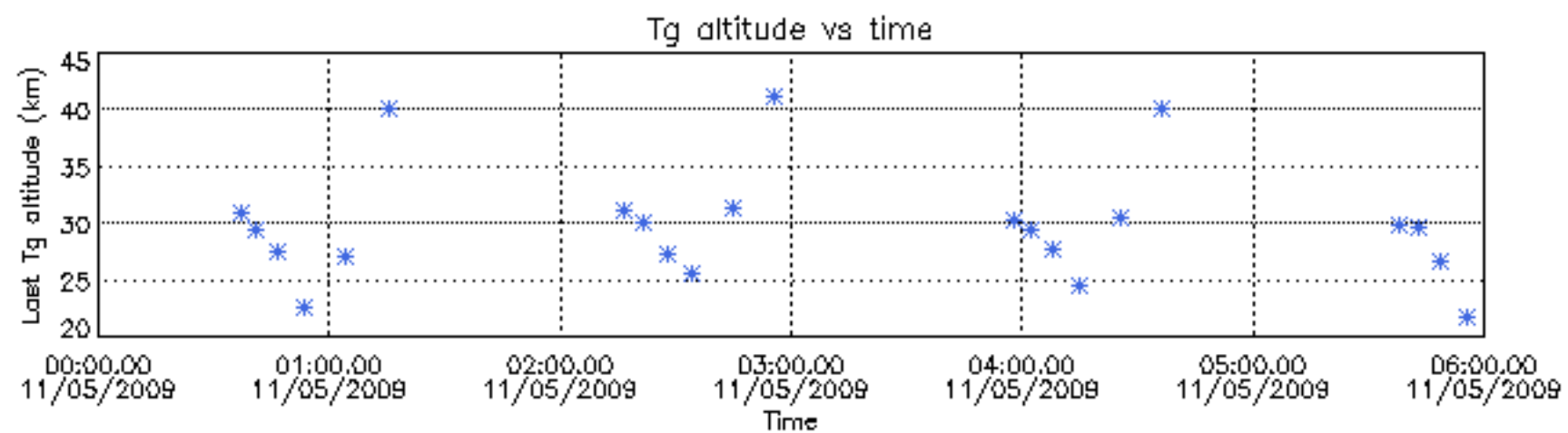


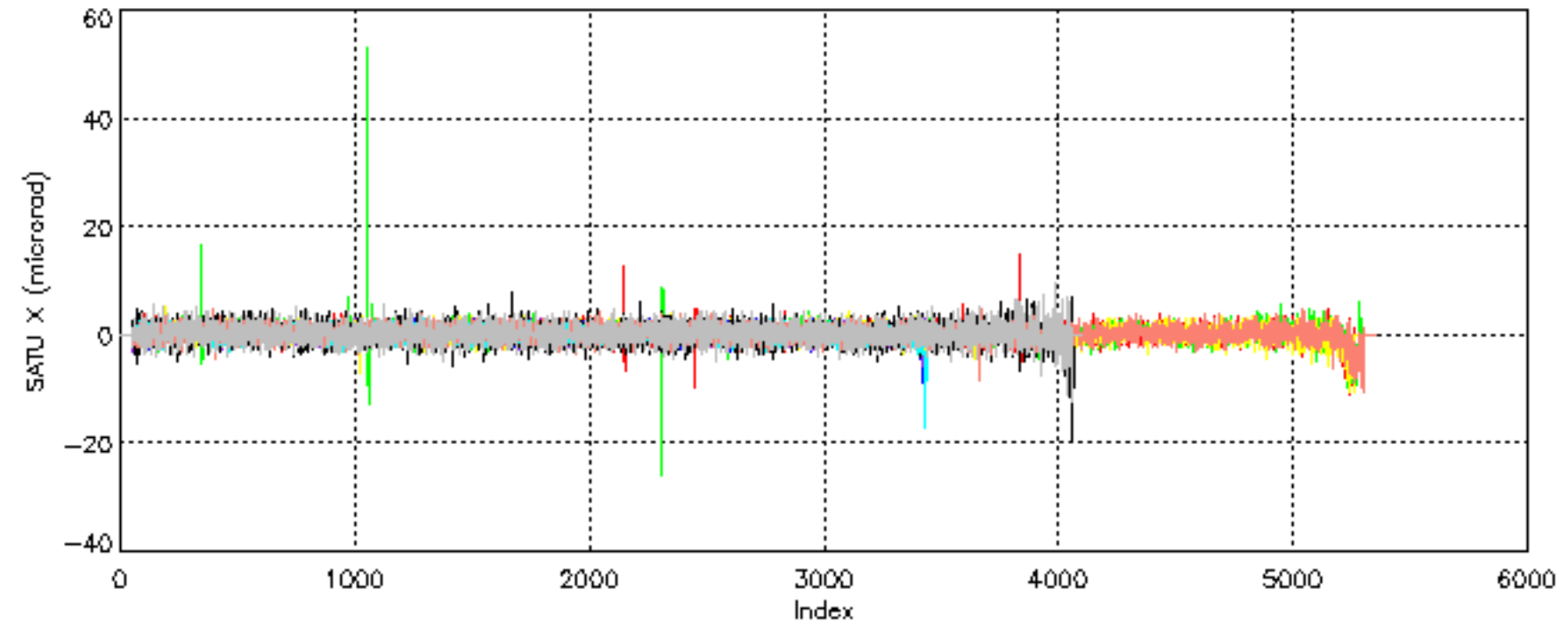
Tangent altitude at which the star is lost

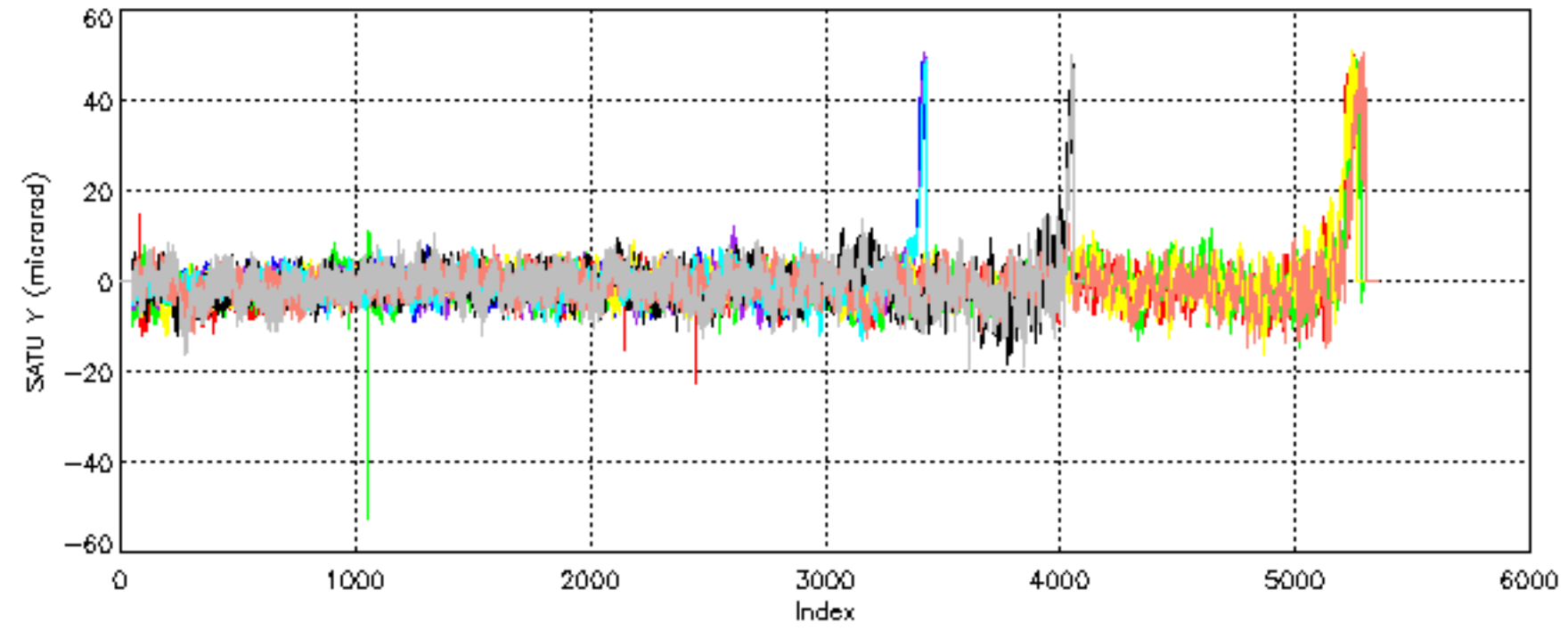




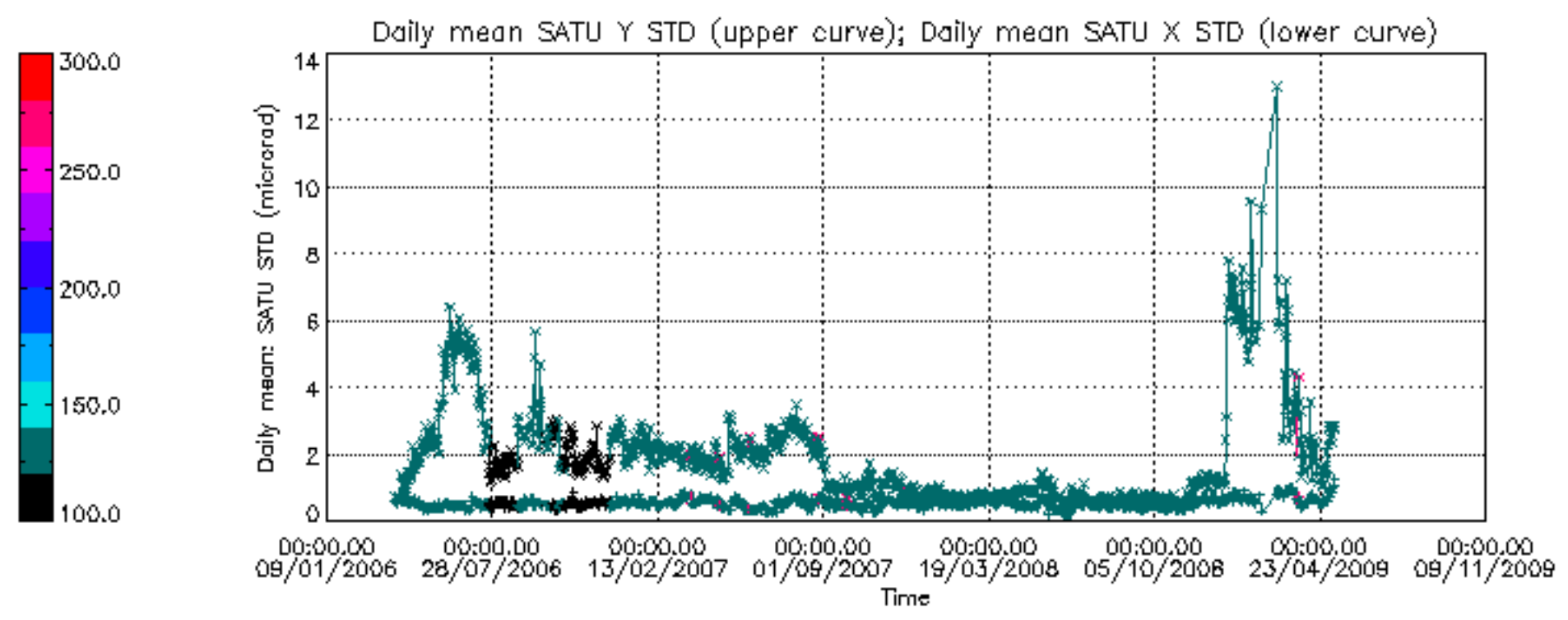
Tangent altitude at which the star is lost











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 3; 748.8; 01-MAY-2009 00:38:31; Dark ; 52.0; 40; The Sco ; 1.86; 7100;occ; 104; 0;37474  
 4; 853.9; 01-MAY-2009 00:40:16; Dark ; 60.5; 25; 35Lam Sco ; 1.62; 28000;occ; 121; 0;37474  
 5; 1041.1; 01-MAY-2009 00:43:23; Dark ; 59.0; 75; 26Eps Sco ; 2.29; 4250;occ; 118; 0;37474  
 6; 1266.2; 01-MAY-2009 00:47:08; Dark ; 46.0; 16; 21Alp Sco ; 1.02; 3000;occ; 92; 0;37474  
 7; 1400.8; 01-MAY-2009 00:49:23; Dark ; 58.0; 80; 7Del Sco ; 2.32; 30000;occ; 116; 0;37474  
 8; 1590.8; 01-MAY-2009 00:52:33; Bright; 42.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 84; 0;37474  
 9; 1728.1; 01-MAY-2009 00:54:50; Bright; 48.0; 104; 27Bet Lib ; 2.61; 13100;occ; 96; 0;37474  
 10; 2264.2; 01-MAY-2009 01:03:46; Bright; 45.0; 3; 16Alp Boo ; -0.05; 4250;occ; 90; 0;37474  
 11; 2455.1; 01-MAY-2009 01:06:57; Bright; 43.5; 83; ; 2.38; 11000;occ; 87; 0;37474  
 12; 2635.6; 01-MAY-2009 01:09:58; Bright; 40.0; 180; 27Gam Boo ; 3.04; 8000;occ; 80; 0;37474  
 13; 3209.6; 01-MAY-2009 01:19:32; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;37474  
 14; 3828.1; 01-MAY-2009 01:29:50; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;37474  
 15; 4509.0; 01-MAY-2009 01:41:11; Dark ; 36.5; 164; 44Eta Peg ; 2.95; 5400;occ; 73; 0;37474  
 16; 5033.8; 01-MAY-2009 01:49:56; Dark ; 52.0; 61; 8Eps Peg ; 2.10; 3900;occ; 104; 0;37474  
 17; 5179.5; 01-MAY-2009 01:52:22; Dark ; 30.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 60; 0;37474

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 5; 855.0; 01-MAY-2009 02:20:53; Dark ; 57.0; 25; 35Lam Sco ; 1.62; 28000;occ; 114; 0;37475  
 6; 1041.9; 01-MAY-2009 02:24:00; Dark ; 59.0; 75; 26Eps Sco ; 2.29; 4250;occ; 118; 0;37475  
 7; 1266.8; 01-MAY-2009 02:27:45; Dark ; 46.0; 16; 21Alp Sco ; 1.02; 3000;occ; 92; 0;37475  
 8; 1401.0; 01-MAY-2009 02:29:59; Dark ; 56.5; 80; 7Del Sco ; 2.32; 30000;occ; 113; 0;37475  
 9; 1590.9; 01-MAY-2009 02:33:09; Bright; 41.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 83; 0;37475  
 10; 1728.2; 01-MAY-2009 02:35:26; Bright; 50.0; 104; 27Bet Lib ; 2.61; 13100;occ; 100; 0;37475  
 11; 2264.0; 01-MAY-2009 02:44:22; Bright; 39.5; 3; 16Alp Boo ; -0.05; 4250;occ; 79; 0;37475  
 12; 2454.5; 01-MAY-2009 02:47:33; Bright; 42.5; 83; ; 2.38; 11000;occ; 85; 0;37475  
 13; 2635.1; 01-MAY-2009 02:50:33; Bright; 41.5; 180; 27Gam Boo ; 3.04; 8000;occ; 83; 0;37475  
 14; 3209.1; 01-MAY-2009 03:00:07; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;37475  
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 4; -631.1; 01-MAY-2009 03:36:43; Dark ; 58.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 117; 0;37475  
 5; -474.5; 01-MAY-2009 03:39:20; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37475  
 6; 751.0; 01-MAY-2009 03:59:45; Dark ; 53.5; 40; The Sco ; 1.86; 7100;occ; 107; 0;37476  
 7; 855.7; 01-MAY-2009 04:01:30; Dark ; 57.0; 25; 35Lam Sco ; 1.62; 28000;occ; 114; 0;37476  
 8; 1042.8; 01-MAY-2009 04:04:37; Dark ; 59.5; 75; 26Eps Sco ; 2.29; 4250;occ; 119; 0;37476  
 9; 1267.4; 01-MAY-2009 04:08:21; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;37476  
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 13; 2263.9; 01-MAY-2009 04:24:58; Bright; 40.5; 3; 16Alp Boo ; -0.05; 4250;occ; 81; 0;37476  
 14; 2454.3; 01-MAY-2009 04:28:08; Bright; 44.0; 83; ; 2.38; 11000;occ; 88; 0;37476  
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 8; 856.7; 01-MAY-2009 05:42:07; Dark ; 62.5; 25; 35Lam Sco ; 1.62; 28000;occ; 125; 0;37477  
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 15; 2453.6; 01-MAY-2009 06:08:44; Bright; 46.0; 83; ; 2.38; 11000;occ; 92; 0;37477  
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4; 1404.7; 01-MAY-2009 20:56:38; Dark ; 49.5; 80; 7Del Sco ; 2.32; 30000;occ; 99; 0;37486
5; 1592.1; 01-MAY-2009 20:59:46; Bright; 41.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 83; 0;37486
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7; 2261.0; 01-MAY-2009 21:10:55; Bright; 39.0; 3; 16Alp Boo ; -0.05; 4250;occ; 78; 0;37486
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10; 3202.2; 01-MAY-2009 21:26:36; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;37486
11; 3824.5; 01-MAY-2009 21:36:58; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37486
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13; 5044.1; 01-MAY-2009 21:57:18; Dark ; 48.0; 61; 8Eps Peg ; 2.10; 3900;occ; 96; 0;37486
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11; 2447.9; 02-MAY-2009 00:35:13; Bright; 46.0; 83; ; 2.38; 11000;occ; 92; 0;37488
12; 2629.4; 02-MAY-2009 00:38:15; Bright; 38.0; 180; 27Gam Boo ; 3.04; 8000;occ; 76; 0;37488
13; 3200.9; 02-MAY-2009 00:47:46; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;37488
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8; 1725.8; 04-MAY-2009 22:48:20; Bright; 45.0; 104; 27Bet Lib ; 2.61; 13100;occ; 90; 0;37530
9; 2428.9; 04-MAY-2009 23:00:03; Bright; 41.0; 83; ; 2.38; 11000;occ; 82; 0;37530
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12; 3175.8; 04-MAY-2009 23:12:30; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;37530
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3; 906.0; 05-MAY-2009 00:15:16; Dark ; 53.0; 25; 35Lam Sco ; 1.62; 28000;occ; 106; 0;37531
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8; 2428.4; 05-MAY-2009 00:40:39; Bright; 47.5; 83; ; 2.38; 11000;occ; 95; 0;37531
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8; 1288.6; 04-MAY-2009 07:35:40; Dark ; 53.0; 16; 21Alp Sco ; 1.02; 3000;occ; 106; 0;37521
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4; 3181.2; 04-MAY-2009 08:07:12; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;37521
5; 3813.2; 04-MAY-2009 08:17:44; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37521
6; 4516.6; 04-MAY-2009 08:29:28; Dark ; 35.5; 164; 44Eta Peg ; 2.95; 5400;occ; 71; 0;37521
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4; 3180.7; 04-MAY-2009 09:47:48; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;37522
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11; 7110.6; 04-MAY-2009 10:53:18; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;37522
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6; 4546.3; 04-MAY-2009 13:31:45; Dark ; 33.0; 93; 53Bet Peg ; 2.52; 3100;occ; 66; 0;37524
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5; 3178.9; 04-MAY-2009 14:49:34; Bright; 44.5; 119; 14Eta Dra ; 2.73; 4700;occ; 89; 0;37525
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11; 6937.8; 04-MAY-2009 15:52:13; Dark ; 53.0; 25; 35Lam Sco ; 1.62; 28000;occ; 106; 0;37525
12; 7113.1; 04-MAY-2009 15:55:08; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;37525
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4; 2430.3; 04-MAY-2009 16:17:41; Bright; 44.0; 83; ; 2.38; 11000;occ; 88; 0;37526
5; 2534.2; 04-MAY-2009 16:19:25; Bright; 29.0; 67; 5Alp CrB ; 2.22; 11000;occ; 58; 0;37526
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7; 1293.7; 05-MAY-2009 03:42:56; Dark ; 51.5; 16; 21Alp Sco ; 1.02; 3000;occ; 103; 0;37533
8; 1417.5; 05-MAY-2009 03:45:00; Dark ; 47.5; 80; 7Del Sco ; 2.32; 30000;occ; 95; 0;37533
9; 1726.6; 05-MAY-2009 03:50:09; Bright; 43.0; 104; 27Bet Lib ; 2.61; 13100;occ; 86; 0;37533
10; 2427.7; 05-MAY-2009 04:01:50; Bright; 44.5; 83; ; 2.38; 11000;occ; 89; 0;37533
11; 2528.5; 05-MAY-2009 04:03:31; Bright; 48.0; 67; 5Alp CrB ; 2.22; 11000;occ; 96; 0;37533
12; 2611.4; 05-MAY-2009 04:04:54; Bright; 39.0; 180; 27Gam Boo ; 3.04; 8000;occ; 78; 0;37533
13; 3174.0; 05-MAY-2009 04:14:16; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;37533
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2; -1488.0; 05-MAY-2009 04:37:10; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37533
3; -804.6; 05-MAY-2009 04:48:34; Dark ; 47.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 94; 0;37533
4; -402.5; 05-MAY-2009 04:55:16; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37533

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 6; 909.0; 05-MAY-2009 05:17:07; Dark ; 52.5; 25; 35Lam Sco ; 1.62; 28000;occ; 105; 0;37534  
 7; 1081.6; 05-MAY-2009 05:20:00; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;37534  
 8; 1294.2; 05-MAY-2009 05:23:32; Dark ; 51.0; 16; 21Alp Sco ; 1.02; 3000;occ; 102; 0;37534  
 9; 1417.7; 05-MAY-2009 05:25:36; Dark ; 48.0; 80; 7Del Sco ; 2.32; 30000;occ; 96; 0;37534  
 10; 1725.5; 05-MAY-2009 05:30:44; Bright; 44.5; 104; 27Bet Lib ; 2.61; 13100;occ; 89; 0;37534  
 11; 2427.5; 05-MAY-2009 05:42:26; Bright; 46.0; 83; ; 2.38; 11000;occ; 92; 0;37534  
 12; 2527.7; 05-MAY-2009 05:44:06; Bright; 50.0; 67; 5Alp CrB ; 2.22; 11000;occ; 100; 0;37534  
 13; 2611.0; 05-MAY-2009 05:45:29; Bright; 40.0; 180; 27Gam Boo ; 3.04; 8000;occ; 80; 0;37534  
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 3; 1298.3; 05-MAY-2009 20:29:00; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;37543  
 4; 1420.4; 05-MAY-2009 20:31:02; Dark ; 46.5; 80; 7Del Sco ; 2.32; 30000;occ; 93; 0;37543  
 5; 1726.0; 05-MAY-2009 20:36:08; Bright; 44.0; 104; 27Bet Lib ; 2.61; 13100;occ; 88; 0;37543  
 6; 2423.5; 05-MAY-2009 20:47:45; Bright; 40.5; 83; ; 2.38; 11000;occ; 81; 0;37543  
 7; 2607.5; 05-MAY-2009 20:50:49; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;37543  
 8; 3168.4; 05-MAY-2009 21:00:10; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;37543  
 9; 3805.9; 05-MAY-2009 21:10:48; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37543  
 10; 4549.7; 05-MAY-2009 21:23:11; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37543  
 11; 4798.4; 05-MAY-2009 21:27:20; Dark ; 35.0; 90; 54Alp Peg ; 2.49; 11000;occ; 70; 0;37543  
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 2; -388.9; 05-MAY-2009 21:41:29; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37543  
 3; 807.6; 05-MAY-2009 22:01:25; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;37544  
 4; 917.3; 05-MAY-2009 22:03:15; Dark ; 51.5; 25; 35Lam Sco ; 1.62; 28000;occ; 103; 0;37544  
 5; 1087.9; 05-MAY-2009 22:06:06; Dark ; 48.0; 75; 26Eps Sco ; 2.29; 4250;occ; 96; 0;37544  
 6; 1298.7; 05-MAY-2009 22:09:36; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;37544  
 7; 1420.7; 05-MAY-2009 22:11:38; Dark ; 46.0; 80; 7Del Sco ; 2.32; 30000;occ; 92; 0;37544  
 8; 1725.8; 05-MAY-2009 22:16:43; Bright; 43.5; 104; 27Bet Lib ; 2.61; 13100;occ; 87; 0;37544  
 9; 2423.3; 05-MAY-2009 22:28:21; Bright; 40.5; 83; ; 2.38; 11000;occ; 81; 0;37544  
 10; 2607.6; 05-MAY-2009 22:31:25; Bright; 38.0; 180; 27Gam Boo ; 3.04; 8000;occ; 76; 0;37544  
 11; 3167.4; 05-MAY-2009 22:40:45; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;37544  
 12; 3805.8; 05-MAY-2009 22:51:23; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;37544  
 13; 4549.9; 05-MAY-2009 23:03:48; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37544  
 14; 4798.6; 05-MAY-2009 23:07:56; Dark ; 34.0; 90; 54Alp Peg ; 2.49; 11000;occ; 68; 0;37544

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 3; 917.8; 05-MAY-2009 23:43:51; Dark ; 52.0; 25; 35Lam Sco ; 1.62; 28000;occ; 104; 0;37545  
 4; 1088.5; 05-MAY-2009 23:46:42; Dark ; 48.0; 75; 26Eps Sco ; 2.29; 4250;occ; 96; 0;37545  
 5; 1299.2; 05-MAY-2009 23:50:13; Dark ; 49.5; 16; 21Alp Sco ; 1.02; 3000;occ; 99; 0;37545  
 6; 1420.9; 05-MAY-2009 23:52:14; Dark ; 46.0; 80; 7Del Sco ; 2.32; 30000;occ; 92; 0;37545  
 7; 1725.8; 05-MAY-2009 23:57:19; Bright; 43.0; 104; 27Bet Lib ; 2.61; 13100;occ; 86; 0;37545  
 8; 2422.7; 06-MAY-2009 00:08:56; Bright; 41.0; 83; ; 2.38; 11000;occ; 82; 0;37545  
 9; 2610.2; 06-MAY-2009 00:12:04; Bright; 39.0; 180; 27Gam Boo ; 3.04; 8000;occ; 78; 0;37545  
 10; 3166.9; 06-MAY-2009 00:21:20; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;37545  
 11; 3805.5; 06-MAY-2009 00:31:59; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;37545  
 12; 4550.3; 06-MAY-2009 00:44:24; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37545  
 13; 4799.0; 06-MAY-2009 00:48:33; Dark ; 34.5; 90; 54Alp Peg ; 2.49; 11000;occ; 69; 0;37545

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 3; -803.7; 05-MAY-2009 06:29:11; Dark ; 47.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 94; 0;37534  
 4; -401.1; 05-MAY-2009 06:35:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37534  
 5; 800.6; 05-MAY-2009 06:55:55; Dark ; 49.5; 40; The Sco ; 1.86; 7100;occ; 99; 0;37535  
 6; 909.4; 05-MAY-2009 06:57:44; Dark ; 53.5; 25; 35Lam Sco ; 1.62; 28000;occ; 107; 0;37535  
 7; 1082.3; 05-MAY-2009 07:00:37; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;37535  
 8; 1294.7; 05-MAY-2009 07:04:09; Dark ; 51.5; 16; 21Alp Sco ; 1.02; 3000;occ; 103; 0;37535  
 9; 1418.4; 05-MAY-2009 07:06:13; Dark ; 47.0; 80; 7Del Sco ; 2.32; 30000;occ; 94; 0;37535  
 10; 1726.1; 05-MAY-2009 07:11:20; Bright; 39.0; 104; 27Bet Lib ; 2.61; 13100;occ; 78; 0;37535

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 3; 2526.8; 05-MAY-2009 07:24:41; Bright; 52.5; 67; 5Alp CrB ; 2.22; 11000;occ; 105; 0;37535  
 4; 2610.6; 05-MAY-2009 07:26:05; Bright; 39.5; 180; 27Gam Boo ; 3.04; 8000;occ; 79; 0;37535

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5; 3172.8; 05-MAY-2009 07:35:27; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;37535
6; 3808.9; 05-MAY-2009 07:46:03; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37535
7; 4548.4; 05-MAY-2009 07:58:23; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37535
8; 5233.5; 05-MAY-2009 08:09:48; Dark ; 47.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 94; 0;37535
9; 5636.2; 05-MAY-2009 08:16:30; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37535
10; 6837.4; 05-MAY-2009 08:36:32; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;37535
11; 6946.2; 05-MAY-2009 08:38:20; Dark ; 53.0; 25; 35Lam Sco ; 1.62; 28000;occ; 106; 0;37535
12; 7118.9; 05-MAY-2009 08:41:13; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;37535
13; 7331.1; 05-MAY-2009 08:44:45; Dark ; 50.5; 16; 21Alp Sco ; 1.02; 3000;occ; 101; 0;37535
14; 7454.7; 05-MAY-2009 08:46:49; Dark ; 47.0; 80; 7Del Sco ; 2.32; 30000;occ; 94; 0;37535
15; 7761.8; 05-MAY-2009 08:51:56; Bright; 46.5; 104; 27Bet Lib ; 2.61; 13100;occ; 93; 0;37535
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2; 2610.2; 05-MAY-2009 09:06:40; Bright; 50.5; 180; 27Gam Boo ; 3.04; 8000;occ; 101; 0;37536
3; 3172.2; 05-MAY-2009 09:16:02; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;37536
4; 3808.2; 05-MAY-2009 09:26:38; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;37536
5; 4548.6; 05-MAY-2009 09:38:59; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37536
6; 4795.8; 05-MAY-2009 09:43:06; Dark ; 35.0; 90; 54Alp Peg ; 2.49; 11000;occ; 70; 0;37536
7; 5234.4; 05-MAY-2009 09:50:25; Dark ; 47.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 95; 0;37536
8; 5637.5; 05-MAY-2009 09:57:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37536
9; 6838.1; 05-MAY-2009 10:17:08; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;37536
10; 6947.2; 05-MAY-2009 10:18:57; Dark ; 53.0; 25; 35Lam Sco ; 1.62; 28000;occ; 106; 0;37536
11; 7119.6; 05-MAY-2009 10:21:50; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;37536
12; 7331.7; 05-MAY-2009 10:25:22; Dark ; 51.0; 16; 21Alp Sco ; 1.02; 3000;occ; 102; 0;37536
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3; 2610.1; 05-MAY-2009 10:47:16; Bright; 40.5; 180; 27Gam Boo ; 3.04; 8000;occ; 81; 0;37537
4; 3171.8; 05-MAY-2009 10:56:38; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;37537
5; 3807.9; 05-MAY-2009 11:07:14; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37537
6; 4548.7; 05-MAY-2009 11:19:35; Dark ; 34.0; 93; 53Bet Peg ; 2.52; 3100;occ; 68; 0;37537
7; 4796.1; 05-MAY-2009 11:23:42; Dark ; 35.0; 90; 54Alp Peg ; 2.49; 11000;occ; 70; 0;37537
8; 5235.1; 05-MAY-2009 11:31:01; Dark ; 47.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 95; 0;37537
9; 5638.8; 05-MAY-2009 11:37:45; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37537
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12; 7120.2; 05-MAY-2009 12:02:26; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;37537
13; 7332.1; 05-MAY-2009 12:05:58; Dark ; 50.5; 16; 21Alp Sco ; 1.02; 3000;occ; 101; 0;37537
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3; 2609.3; 05-MAY-2009 12:27:51; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;37538
4; 3171.1; 05-MAY-2009 12:37:13; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;37538
5; 3808.4; 05-MAY-2009 12:47:50; Bright; 35.0; 89; 5Alp Cep ; 2.45; 8000;occ; 70; 0;37538
6; 4548.9; 05-MAY-2009 13:00:11; Dark ; 33.0; 93; 53Bet Peg ; 2.52; 3100;occ; 66; 0;37538
7; 4796.6; 05-MAY-2009 13:04:19; Dark ; 33.5; 90; 54Alp Peg ; 2.49; 11000;occ; 67; 0;37538
8; 5236.3; 05-MAY-2009 13:11:38; Dark ; 45.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 91; 0;37538
9; 5640.1; 05-MAY-2009 13:18:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37538
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12; 7120.8; 05-MAY-2009 13:43:03; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;37538
13; 7332.5; 05-MAY-2009 13:46:34; Dark ; 51.0; 16; 21Alp Sco ; 1.02; 3000;occ; 102; 0;37538
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3; 2609.3; 05-MAY-2009 14:08:27; Bright; 40.0; 180; 27Gam Boo ; 3.04; 8000;occ; 80; 0;37539
4; 3807.7; 05-MAY-2009 14:28:26; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;37539
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6; 4797.2; 05-MAY-2009 14:44:55; Dark ; 34.5; 90; 54Alp Peg ; 2.49; 11000;occ; 69; 0;37539
7; 5237.0; 05-MAY-2009 14:52:15; Dark ; 48.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 96; 0;37539
8; 5641.6; 05-MAY-2009 14:58:59; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;37539
9; 6840.5; 05-MAY-2009 15:18:58; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;37539
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3; 2424.6; 05-MAY-2009 15:45:58; Bright; 44.5; 83; ; 2.38; 11000;occ; 89; 0;37540
4; 2608.5; 05-MAY-2009 15:49:02; Bright; 39.5; 180; 27Gam Boo ; 3.04; 8000;occ; 79; 0;37540
5; 3170.6; 05-MAY-2009 15:58:24; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;37540
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9; 5238.0; 05-MAY-2009 16:32:52; Dark ; 47.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 95; 0;37540
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7; 3169.7; 05-MAY-2009 17:38:59; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;37541
8; 3807.4; 05-MAY-2009 17:49:37; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;37541
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6; 1089.6; 06-MAY-2009 03:07:55; Dark ; 48.0; 75; 26Eps Sco ; 2.29; 4250;occ; 96; 0;37547
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9; 2417.3; 06-MAY-2009 23:37:14; Bright; 41.0; 83; ; 2.38; 11000;occ; 82; 0;37559

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5; 3010.9; 28-MAY-2009 12:11:35; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;37867
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13; 7080.9; 28-MAY-2009 16:40:36; Dark ; 33.0; 178; Iot1Sco ; 3.02; 6550;occ; 66; 0;37869
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 5; 1835.9; 28-MAY-2009 18:34:23; Bright; 30.5; 120; 1Del Oph ; 2.73; 3200;occ; 61; 0;37871  
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 8; 3008.2; 28-MAY-2009 18:53:56; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;37871  
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5; 2334.3; 29-MAY-2009 21:32:17; Bright; 34.0; 127; 27Bet Her ; 2.78; 4700;occ; 68; 0;37887
6; 2544.1; 29-MAY-2009 21:35:47; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;37887
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