

# GOMOS Daily Report 17-JUN-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	20JUN2009 04:37:30
Data source version	GOMOS/5.00
Start time of products	17JUN2009 00:06:30
Stop time of products	17JUN2009 05:23:49
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)

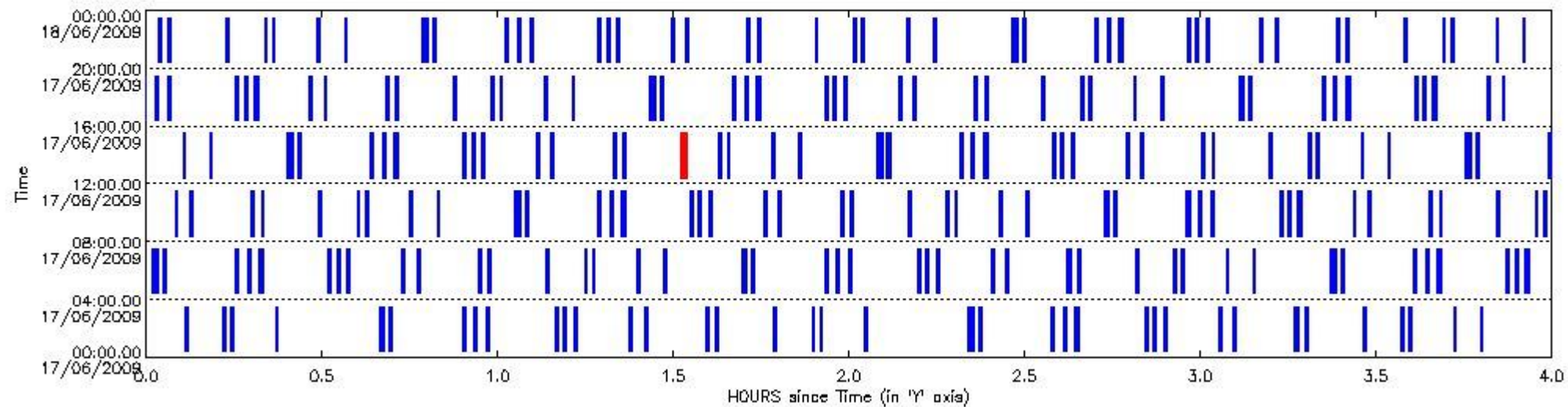
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

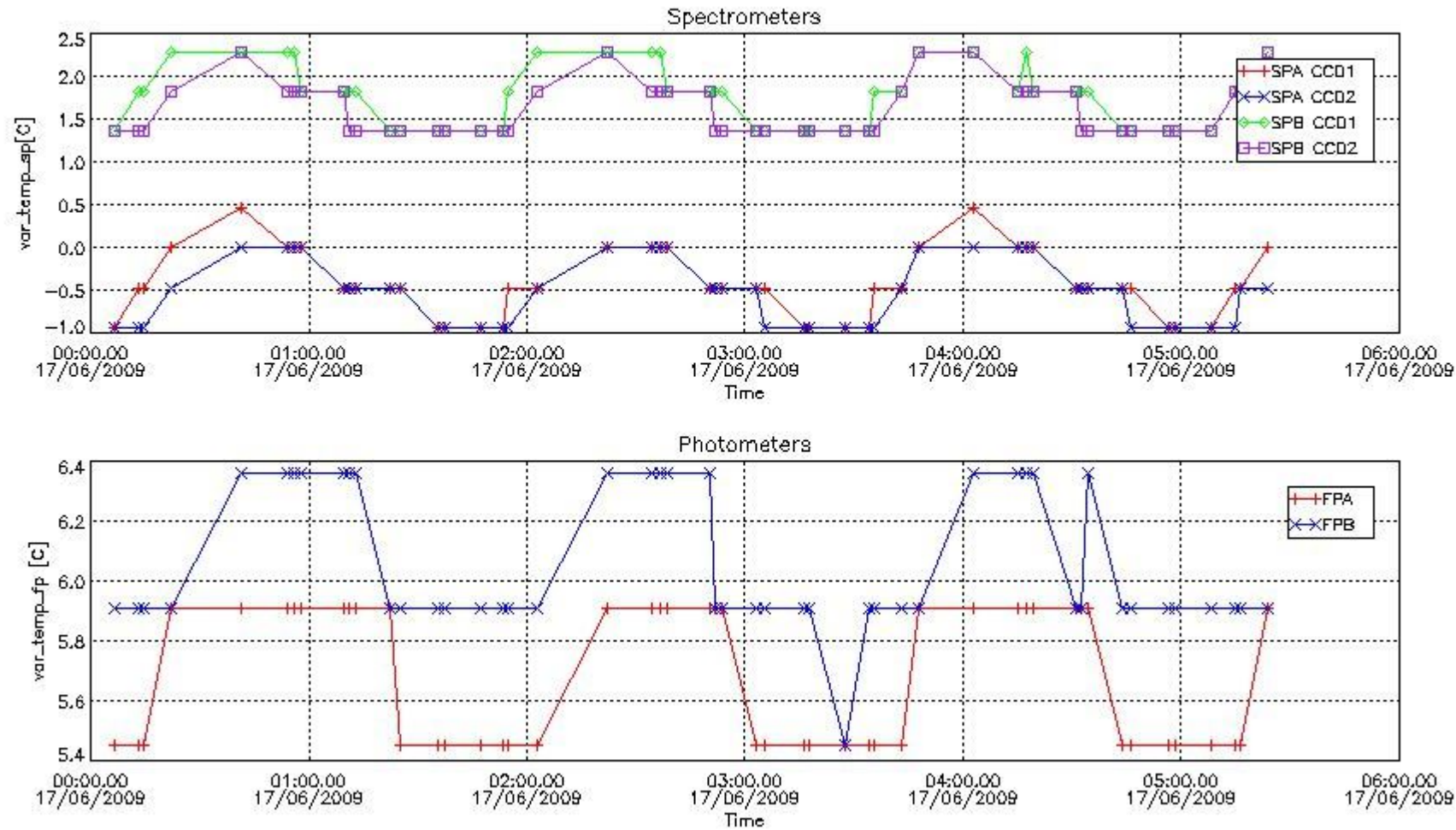
UTC start time	Star name	Star ID	Orbit
17-JUN-2009 13:31:10	5AlpCep	89	38154

### 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_1PNPDE20090617_000630_000000322080_00016_38146_0516.N1	17-JUN-2009 00:06:30	Twilight_stray	31.500	89	5Alp Cep	2.4510	8000.0	63	38146	No
2	GOM_TRA_1PNPDE20090617_001301_000000272080_00016_38146_0517.N1	17-JUN-2009 00:13:01	Twilight_stray	26.500	74	11Bet Cas	2.2680	6600.0	53	38146	No
3	GOM_TRA_1PNPDE20090617_001426_000000262080_00016_38146_0518.N1	17-JUN-2009 00:14:26	Twilight_stray	25.500	68	18Alp Cas	2.2250	4500.0	51	38146	No
4	GOM_TRA_1PNPDE20090617_002201_000000262080_00016_38146_0519.N1	17-JUN-2009 00:22:01	Twilight_stray	25.500	53	43Bet And	2.0480	3300.0	51	38146	No
5	GOM_TRA_1PNPDE20090617_004130_000000352080_00016_38146_0660.N1	17-JUN-2009 00:41:30	Dark	34.500	52	16Bet Cet	2.0370	4500.0	69	38146	No
6	GOM_TRA_1PNPDE20090617_005355_000000342080_00017_38147_0661.N1	17-JUN-2009 00:53:55	Dark	34.000	63	Bet Gru	2.1500	2800.0	68	38147	No
7	GOM_TRA_1PNPDE20090617_005558_000000352080_00017_38147_0662.N1	17-JUN-2009 00:55:58	Dark	34.500	31	Alp Gru	1.7340	15200.	69	38147	No
8	GOM_TRA_1PNPDE20090617_005759_000000422080_00017_38147_0663.N1	17-JUN-2009 00:57:59	Straylight	42.000	172	Gam Gru	3.0030	13100.	84	38147	No
9	GOM_TRA_1PNPDE20090617_010949_000000332080_00017_38147_0664.N1	17-JUN-2009 01:09:49	Twilight_stray	32.500	103	38Zet Sgr	2.6000	9700.0	65	38147	No
10	GOM_TRA_1PNPDE20090617_011115_000000332080_00017_38147_0665.N1	17-JUN-2009 01:11:15	Twilight_stray	33.000	57	34Sig Sgr	2.0660	26000.	66	38147	No

11	GOM_TRA_1PNPDE20090617_011301_000000372080_00017_38147_0666.N1	17-JUN-2009 01:13:01	Twilight	37.000	155	41Pi Sgr	2.9000	6600.0	74	38147	No
12	GOM_TRA_1PNPDE20090617_012228_000000312080_00017_38147_0667.N1	17-JUN-2009 01:22:28	Bright	31.000	126	60Bet Oph	2.7700	4250.0	62	38147	No
13	GOM_TRA_1PNPDE20090617_012458_000000312080_00017_38147_0668.N1	17-JUN-2009 01:24:58	Bright	31.000	59	55Alp Oph	2.0800	8900.0	62	38147	No
14	GOM_TRA_1PNPDE20090617_013530_000000372080_00017_38147_0669.N1	17-JUN-2009 01:35:30	Bright	37.000	5	3Alp Lyr	0.033000	11000.	74	38147	No
15	GOM_TRA_1PNPDE20090617_013714_000000312080_00017_38147_0670.N1	17-JUN-2009 01:37:14	Bright	30.500	69	33Gam Dra	2.2310	3800.0	61	38147	No
16	GOM_TRA_1PNPDE20090617_014705_000000322080_00017_38147_0671.N1	17-JUN-2009 01:47:05	Twilight	31.500	89	5Alp Cep	2.4510	8000.0	63	38147	No
17	GOM_TRA_1PNPDE20090617_015337_000000272080_00017_38147_0672.N1	17-JUN-2009 01:53:37	Twilight	26.500	74	11Bet Cas	2.2680	6600.0	53	38147	No
18	GOM_TRA_1PNPDE20090617_015501_000000262080_00017_38147_0673.N1	17-JUN-2009 01:55:01	Twilight	25.500	68	18Alp Cas	2.2250	4500.0	51	38147	No
19	GOM_TRA_1PNPDE20090617_020237_000000262080_00017_38147_0674.N1	17-JUN-2009 02:02:37	Twilight	25.500	53	43Bet And	2.0480	3300.0	51	38147	No
20	GOM_TRA_1PNPDE20090617_022207_000000352080_00017_38147_0801.N1	17-JUN-2009 02:22:07	Dark	34.500	52	16Bet Cet	2.0370	4500.0	69	38147	No
21	GOM_TRA_1PNPDE20090617_023432_000000352080_00018_38148_0802.N1	17-JUN-2009 02:34:32	Dark	34.500	63	Bet Gru	2.1500	2800.0	69	38148	No
22	GOM_TRA_1PNPDE20090617_023635_000000352080_00018_38148_0803.N1	17-JUN-2009 02:36:35	Dark	35.000	31	Alp Gru	1.7340	15200.	70	38148	No
23	GOM_TRA_1PNPDE20090617_023836_000000432080_00018_38148_0804.N1	17-JUN-2009 02:38:36	Straylight	42.500	172	Gam Gru	3.0030	13100.	85	38148	No
24	GOM_TRA_1PNPDE20090617_025025_000000332080_00018_38148_0805.N1	17-JUN-2009 02:50:25	Twilight	33.000	103	38Zet Sgr	2.6000	9700.0	66	38148	No
25	GOM_TRA_1PNPDE20090617_025151_000000342080_00018_38148_0806.N1	17-JUN-2009 02:51:51	Twilight	33.500	57	34Sig Sgr	2.0660	26000.	67	38148	No
26	GOM_TRA_1PNPDE20090617_025337_000000372080_00018_38148_0807.N1	17-JUN-2009 02:53:37	Twilight	37.000	155	41Pi Sgr	2.9000	6600.0	74	38148	No
27	GOM_TRA_1PNPDE20090617_030304_000000312080_00018_38148_0808.N1	17-JUN-2009 03:03:04	Bright	31.000	126	60Bet Oph	2.7700	4250.0	62	38148	No
28	GOM_TRA_1PNPDE20090617_030534_000000312080_00018_38148_0809.N1	17-JUN-2009 03:05:34	Bright	30.500	59	55Alp Oph	2.0800	8900.0	61	38148	No
29	GOM_TRA_1PNPDE20090617_031605_000000372080_00018_38148_0810.N1	17-JUN-2009 03:16:05	Bright	37.000	5	3Alp Lyr	0.033000	11000.	74	38148	No
30	GOM_TRA_1PNPDE20090617_031749_000000312080_00018_38148_0811.N1	17-JUN-2009 03:17:49	Bright	30.500	69	33Gam Dra	2.2310	3800.0	61	38148	No
31	GOM_TRA_1PNPDE20090617_032740_000000312080_00018_38148_0812.N1	17-JUN-2009 03:27:40	Twilight	31.000	89	5Alp Cep	2.4510	8000.0	62	38148	No
32	GOM_TRA_1PNPDE20090617_033412_000000272080_00018_38148_1028.N1	17-JUN-2009 03:34:12	Twilight	27.000	74	11Bet Cas	2.2680	6600.0	54	38148	No
33	GOM_TRA_1PNPDE20090617_033537_000000262080_00018_38148_1029.N1	17-JUN-2009 03:35:37	Twilight	26.000	68	18Alp Cas	2.2250	4500.0	52	38148	No
34	GOM_TRA_1PNPDE20090617_034313_000000262080_00018_38148_1030.N1	17-JUN-2009 03:43:13	Twilight	26.000	53	43Bet And	2.0480	3300.0	52	38148	No
35	GOM_TRA_1PNPDE20090617_034748_000000242080_00018_38148_1031.N1	17-JUN-2009 03:47:48	Dark	23.500	105	6Bet Ari	2.6450	8900.0	47	38148	No
36	GOM_TRA_1PNPDE20090617_040244_000000352080_00018_38148_1032.N1	17-JUN-2009 04:02:44	Dark	34.500	52	16Bet Cet	2.0370	4500.0	69	38148	No
37	GOM_TRA_1PNPDE20090617_041509_000000352080_00019_38149_1033.N1	17-JUN-2009 04:15:09	Dark	34.500	63	Bet Gru	2.1500	2800.0	69	38149	No
38	GOM_TRA_1PNPDE20090617_041712_000000352080_00019_38149_1034.N1	17-JUN-2009 04:17:12	Straylight	35.000	31	Alp Gru	1.7340	15200.	70	38149	No
39	GOM_TRA_1PNPDE20090617_041914_000000432080_00019_38149_1035.N1	17-JUN-2009 04:19:14	Straylight	42.500	172	Gam Gru	3.0030	13100.	85	38149	No
40	GOM_TRA_1PNPDE20090617_043101_000000332080_00019_38149_1036.N1	17-JUN-2009 04:31:01	Twilight	33.000	103	38Zet Sgr	2.6000	9700.0	66	38149	No
41	GOM_TRA_1PNPDE20090617_043228_000000332080_00019_38149_1037.N1	17-JUN-2009 04:32:28	Twilight	33.000	57	34Sig Sgr	2.0660	26000.	66	38149	No
42	GOM_TRA_1PNPDE20090617_043413_000000382080_00019_38149_1038.N1	17-JUN-2009 04:34:13	Twilight	37.500	155	41Pi Sgr	2.9000	6600.0	75	38149	No
43	GOM_TRA_1PNPDE20090617_044340_000000312080_00019_38149_1039.N1	17-JUN-2009 04:43:40	Bright	31.000	126	60Bet Oph	2.7700	4250.0	62	38149	No
44	GOM_TRA_1PNPDE20090617_044609_000000312080_00019_38149_1040.N1	17-JUN-2009 04:46:09	Bright	30.500	59	55Alp Oph	2.0800	8900.0	61	38149	No
45	GOM_TRA_1PNPDE20090617_045641_000000372080_00019_38149_1041.N1	17-JUN-2009 04:56:41	Bright	37.000	5	3Alp Lyr	0.033000	11000.	74	38149	No
46	GOM_TRA_1PNPDE20090617_045824_000000312080_00019_38149_1042.N1	17-JUN-2009 04:58:24	Bright	30.500	69	33Gam Dra	2.2310	3800.0	61	38149	No
47	GOM_TRA_1PNPDE20090617_050816_000000312080_00019_38149_1043.N1	17-JUN-2009 05:08:16	Twilight	31.000	89	5Alp Cep	2.4510	8000.0	62	38149	No
48	GOM_TRA_1PNPDE20090617_051448_000000272080_00019_38149_1212.N1	17-JUN-2009 05:14:48	Twilight	27.000	74	11Bet Cas	2.2680	6600.0	54	38149	No
49	GOM_TRA_1PNPDE20090617_051613_000000262080_00019_38149_1213.N1	17-JUN-2009 05:16:13	Twilight	25.500	68	18Alp Cas	2.2250	4500.0	51	38149	No
50	GOM_TRA_1PNPDE20090617_052349_000000272080_00019_38149_1214.N1	17-JUN-2009 05:23:49	Twilight	26.500	53	43Bet And	2.0480	3300.0	53	38149	No

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



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

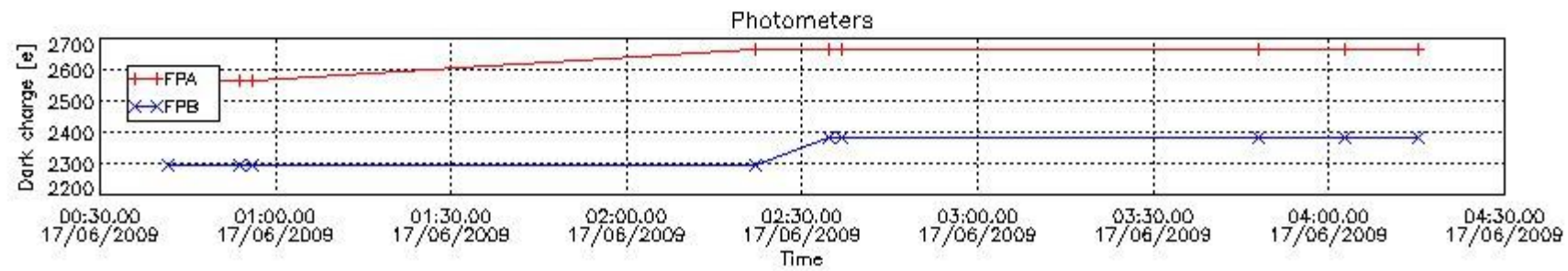
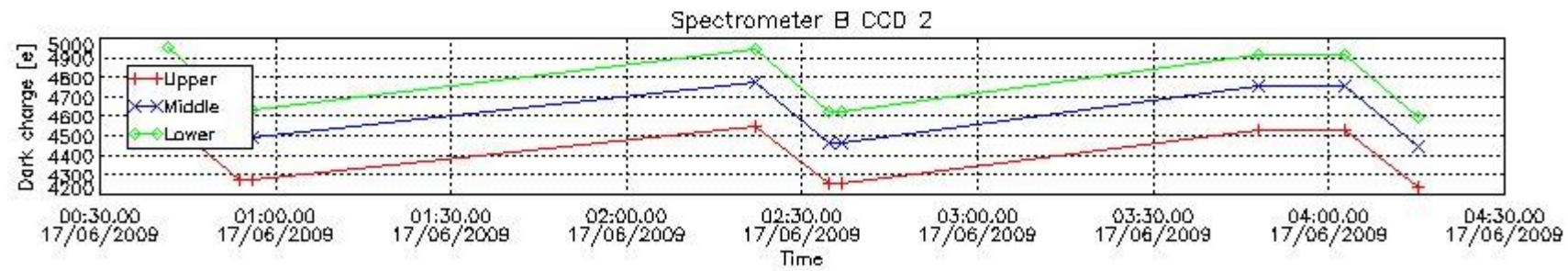
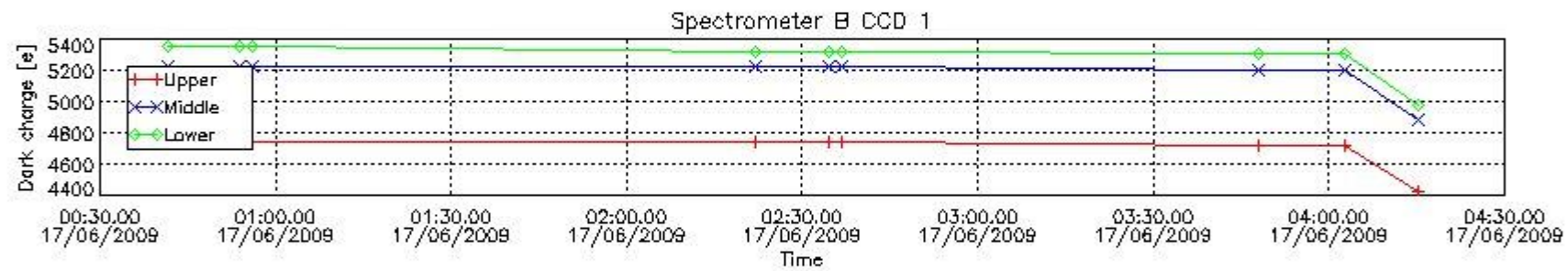
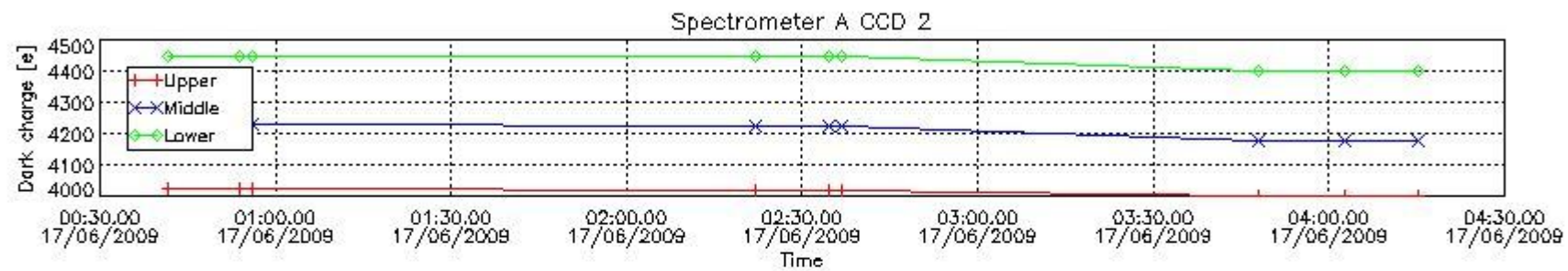
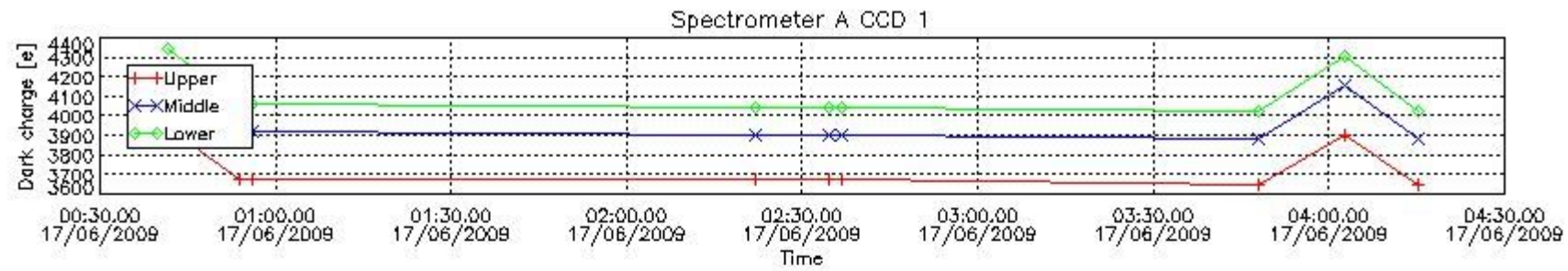
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





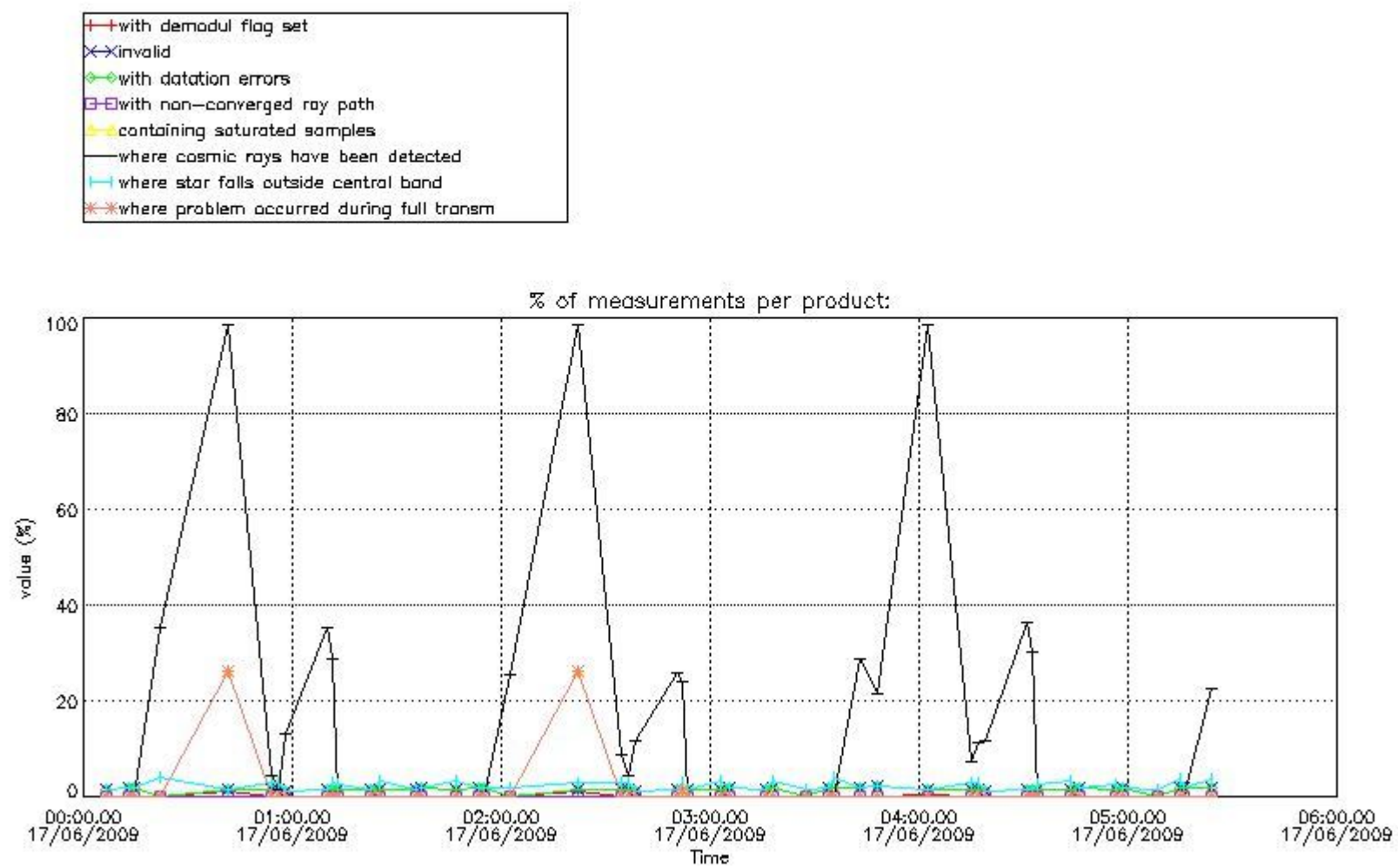
## 5. Demodulation flag and quality information monitoring

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:

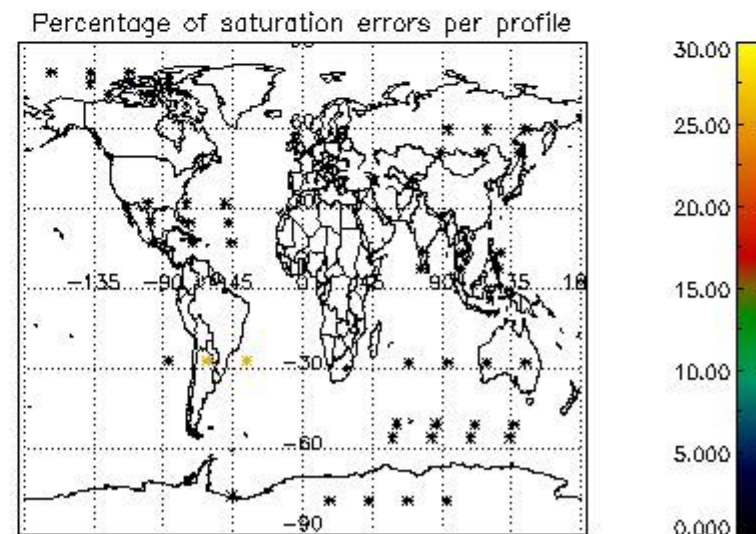
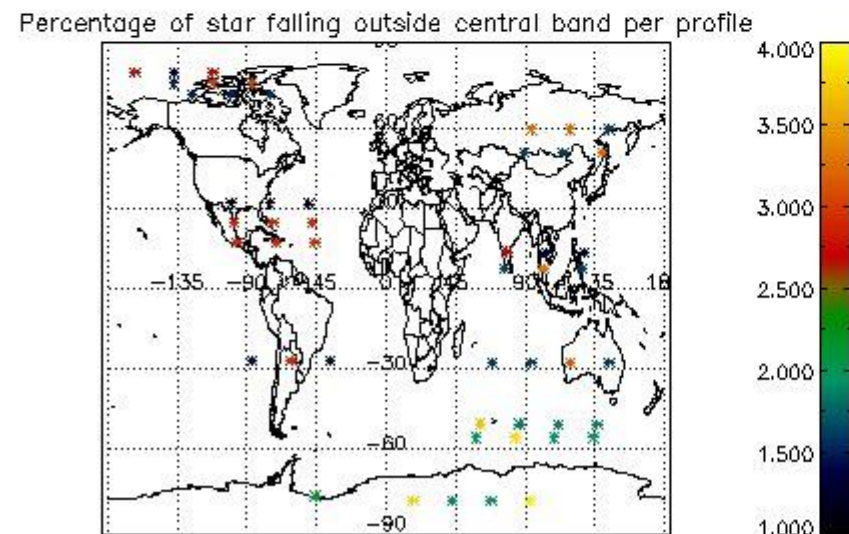
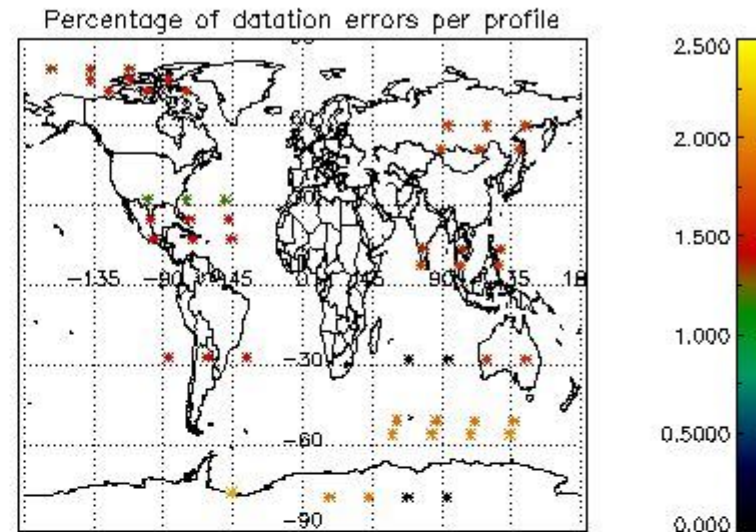
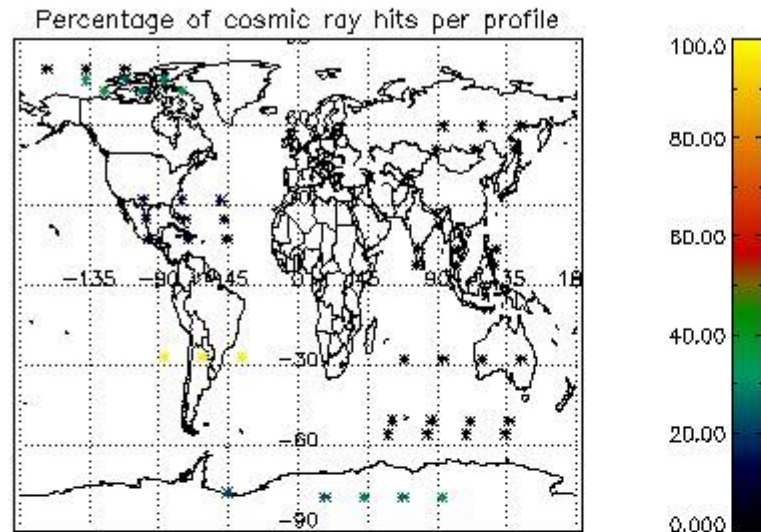
At least one measurement with demodulation flag set:	36.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





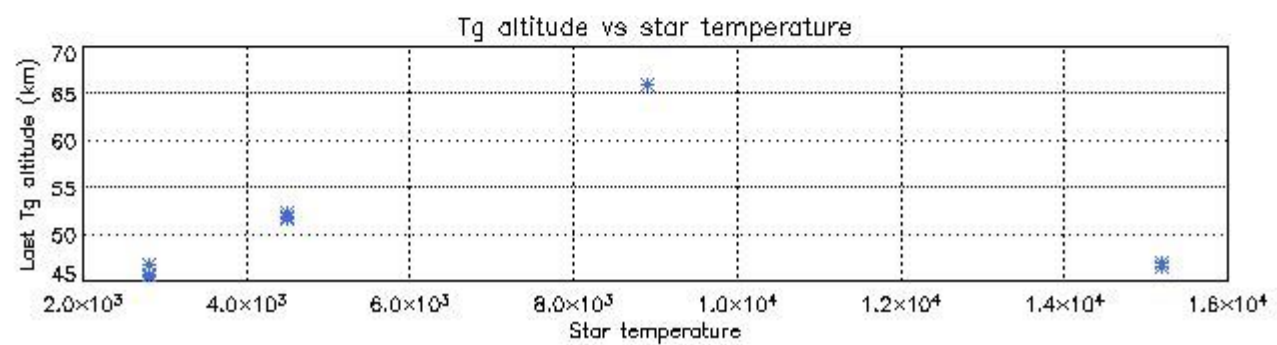
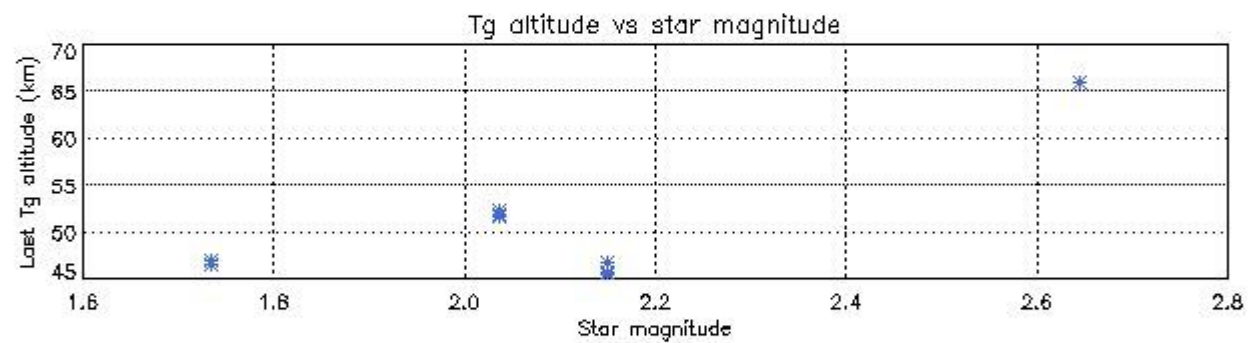
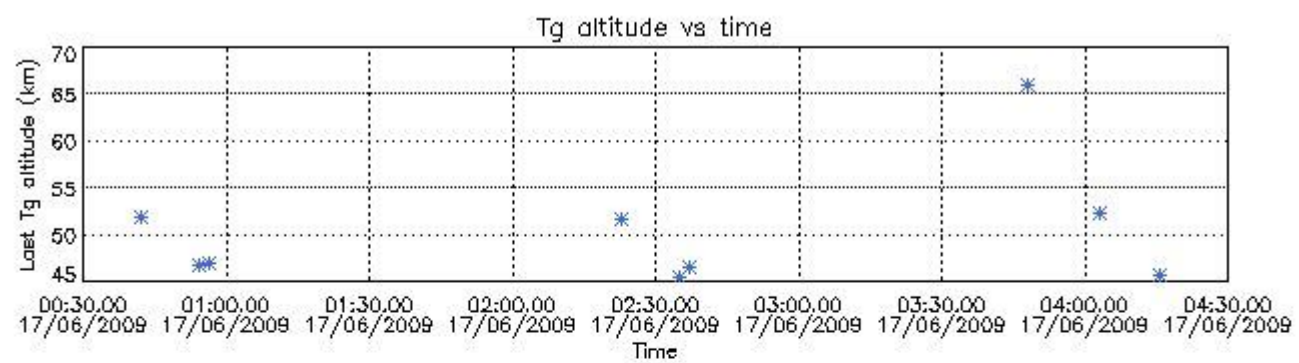
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	50.327	48.281	NaN
St. deviation:	6.4634	0.98349	NaN
Maximum:	65.871	49.801	NaN
Minimum:	45.479	46.871	NaN
Number of data:	9.0000	12.000	NaN

### 6.2 Plot for DARK limb products

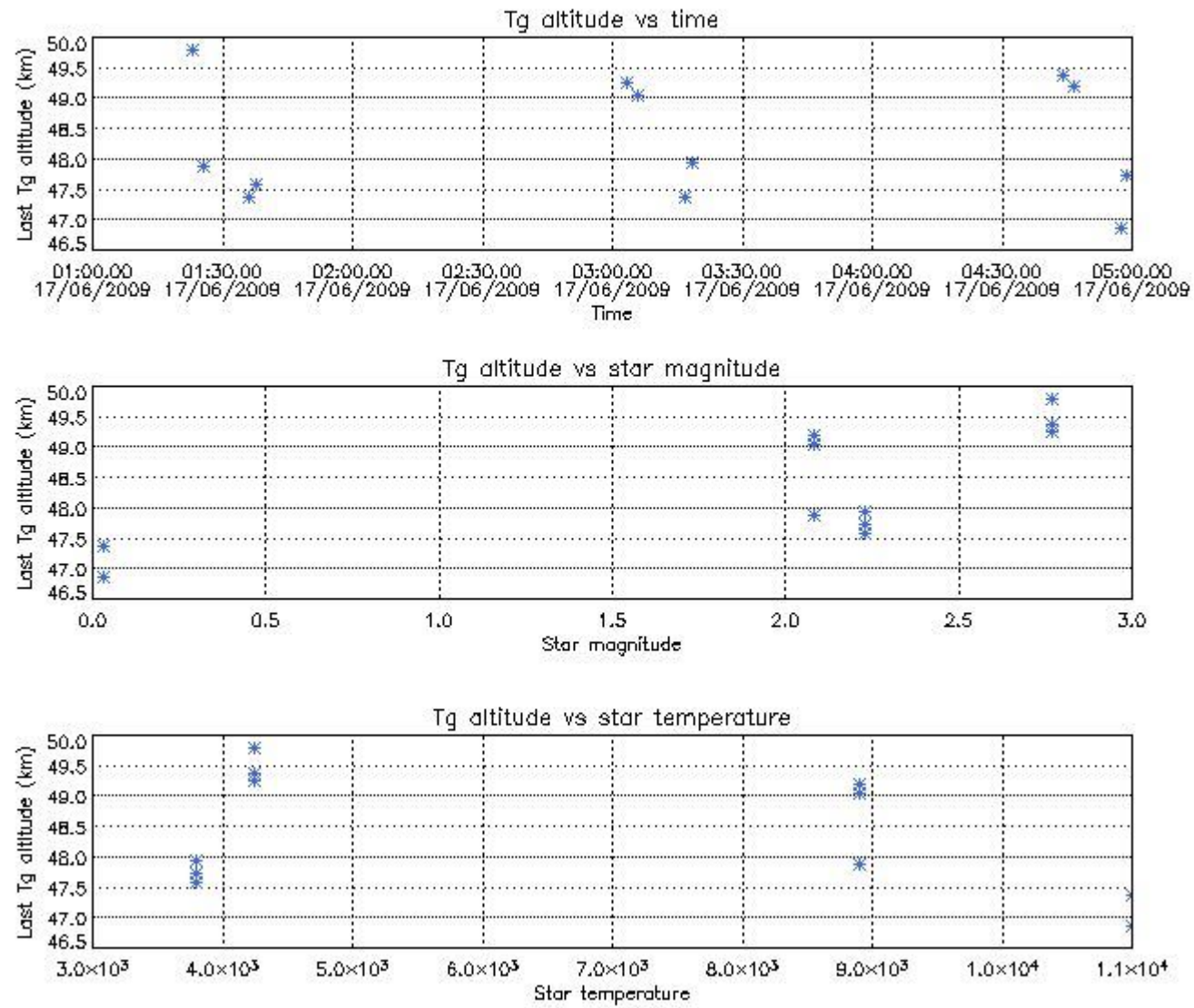
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

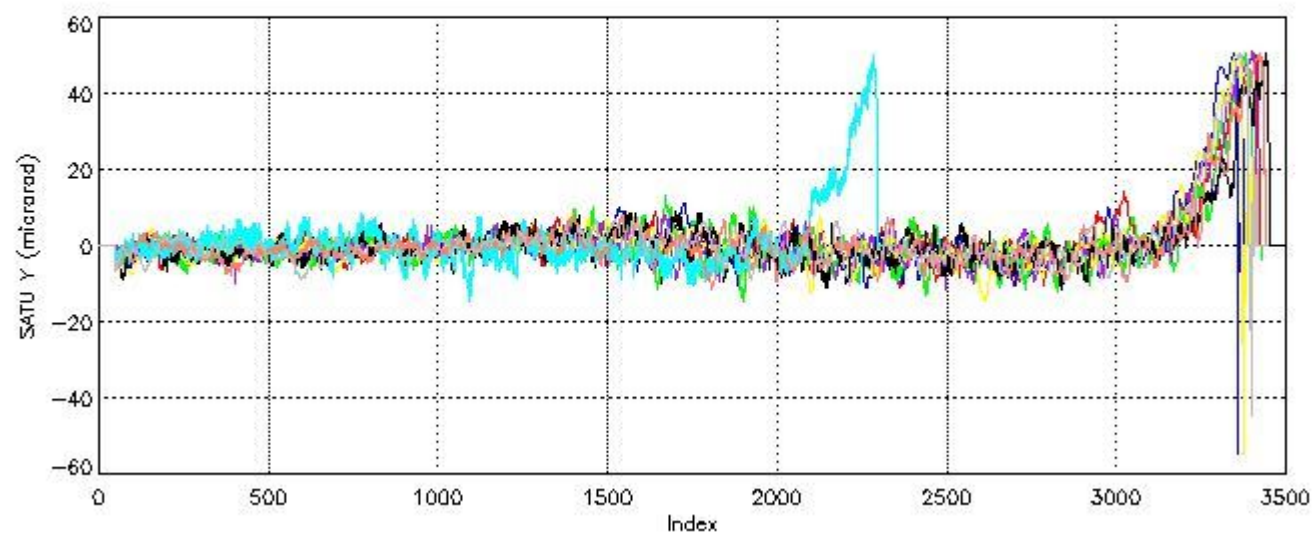
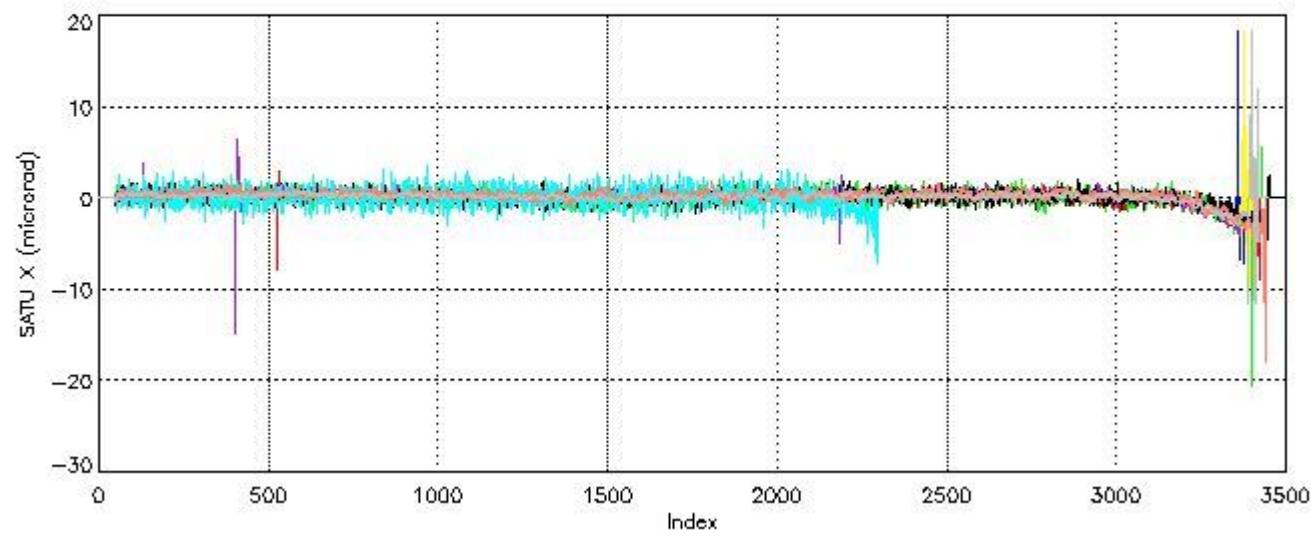


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.25674	-0.97336	0.38198	-1.1231
St. deviation:	0.44687	2.1167	0.52725	1.9631
Maximum:	6.5000	8.4000	3.7000	6.4000
Minimum:	-14.900	-9.9000	-2.3000	-12.400

Number of data:	10200.	10200.	12500.	12500.
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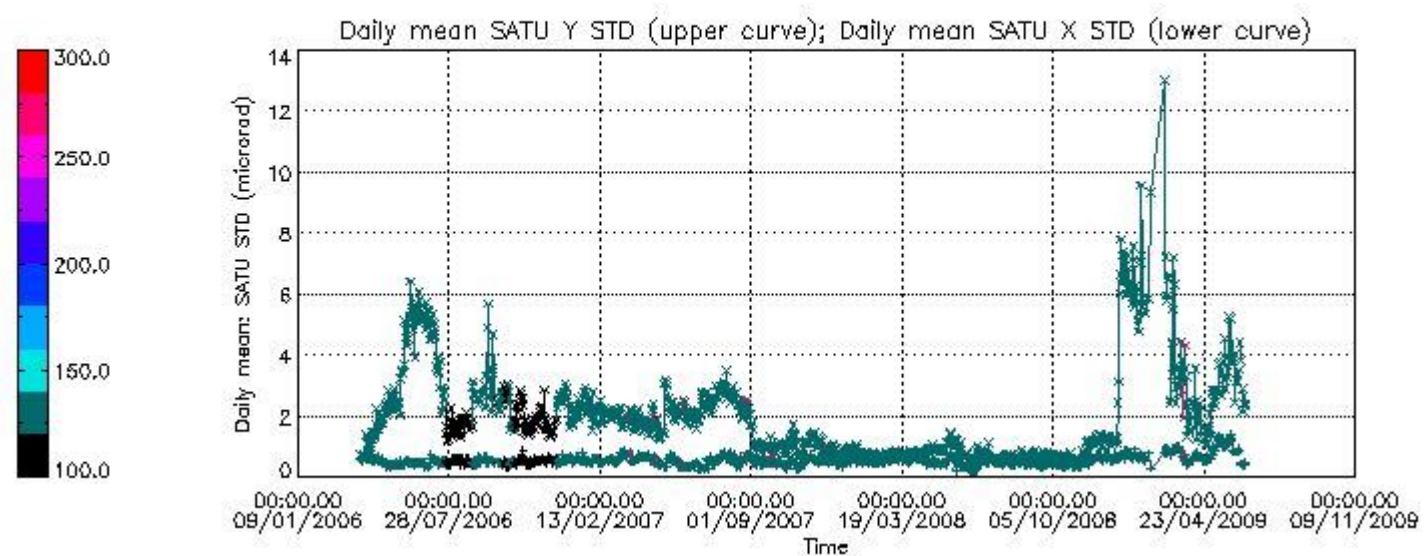
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

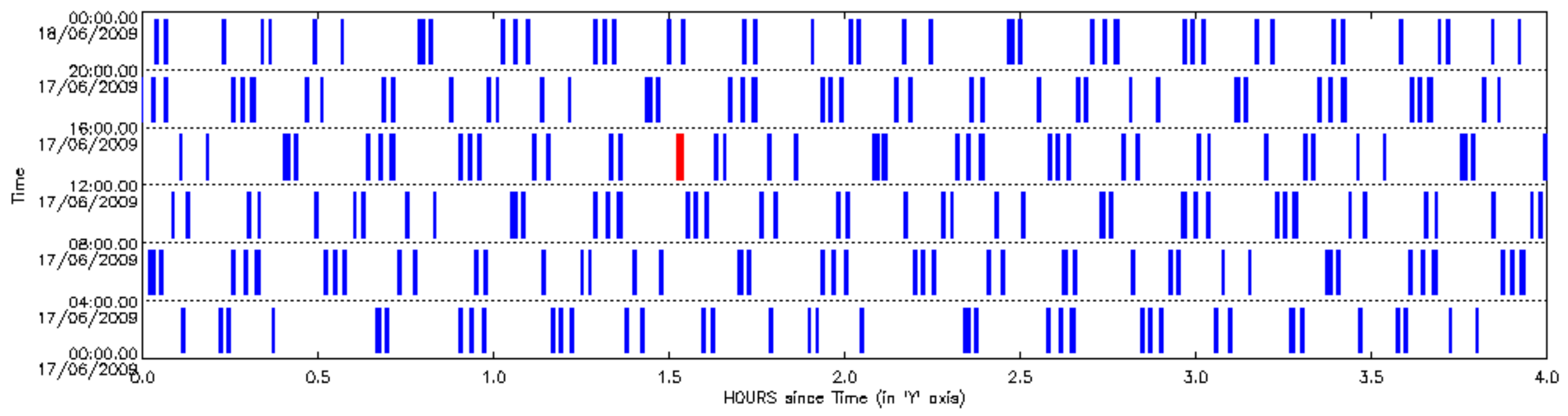


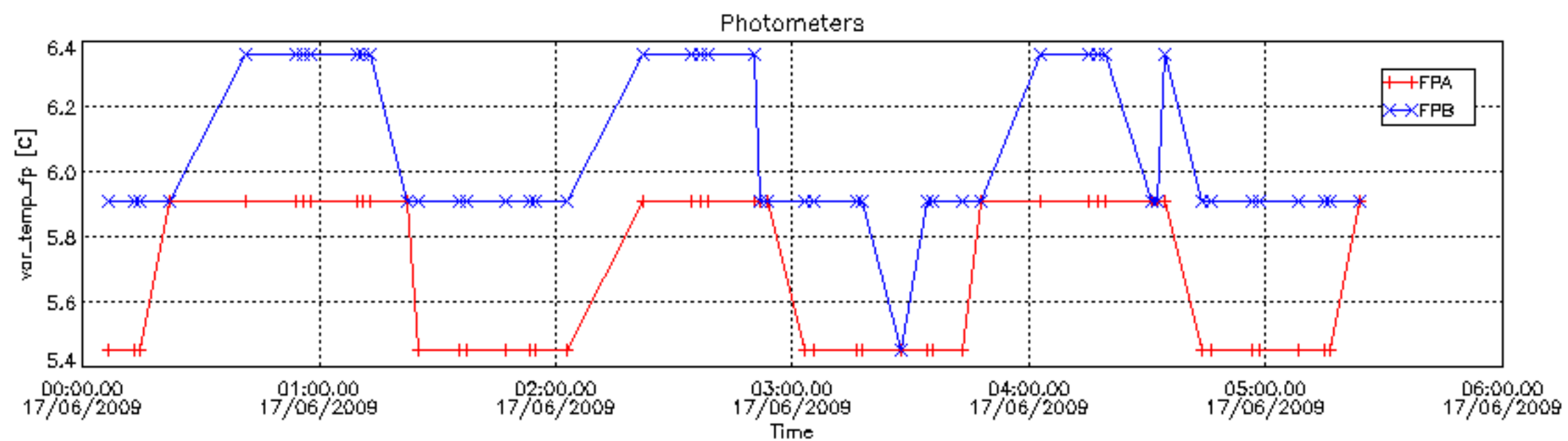
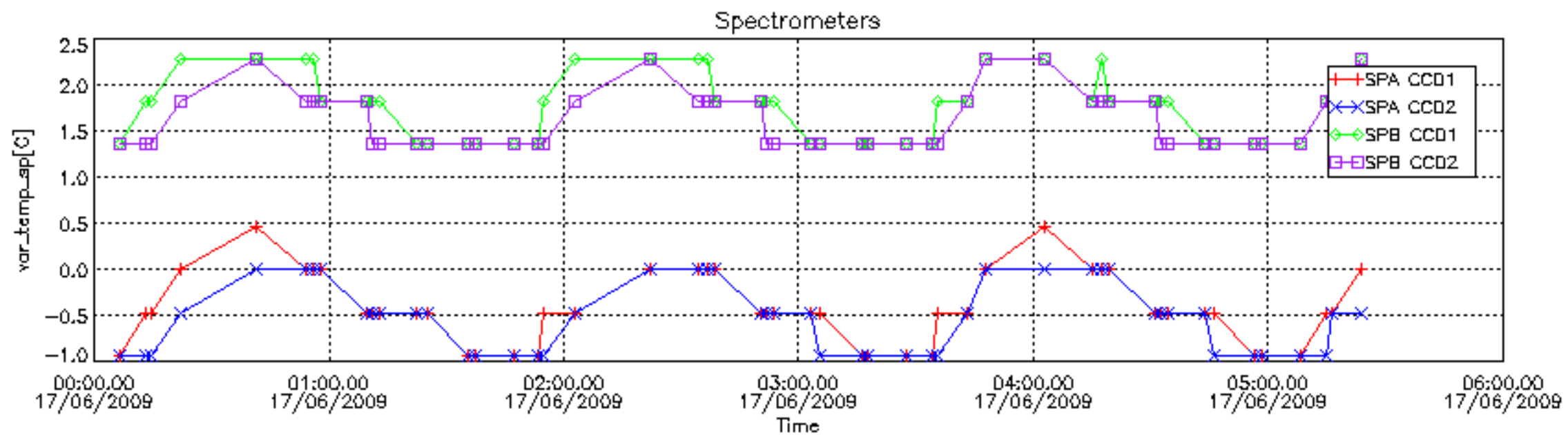
### 8. Auxiliary Data Files used for the production reported in section 2.4

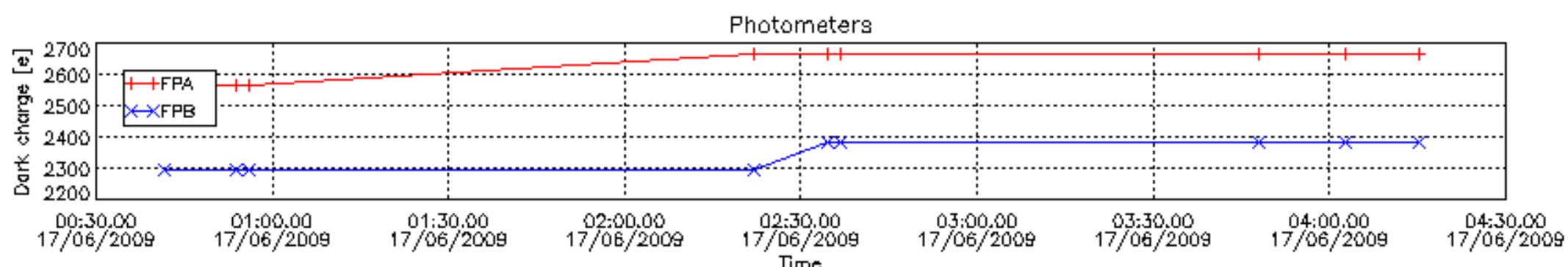
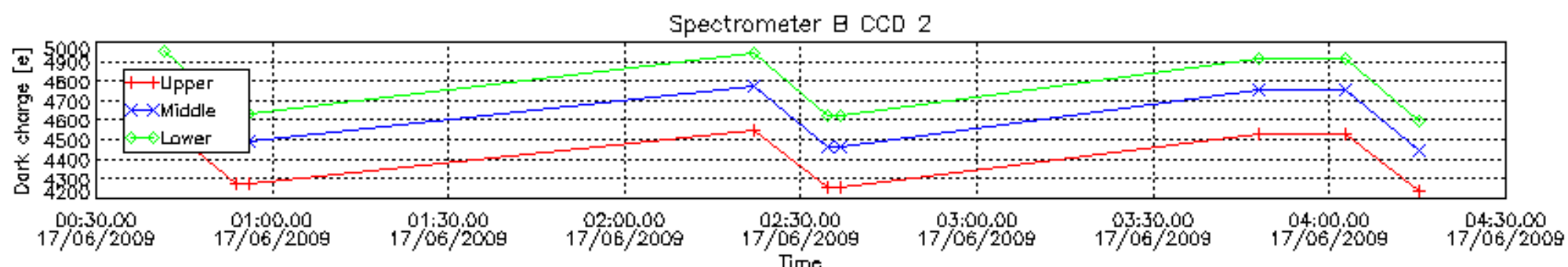
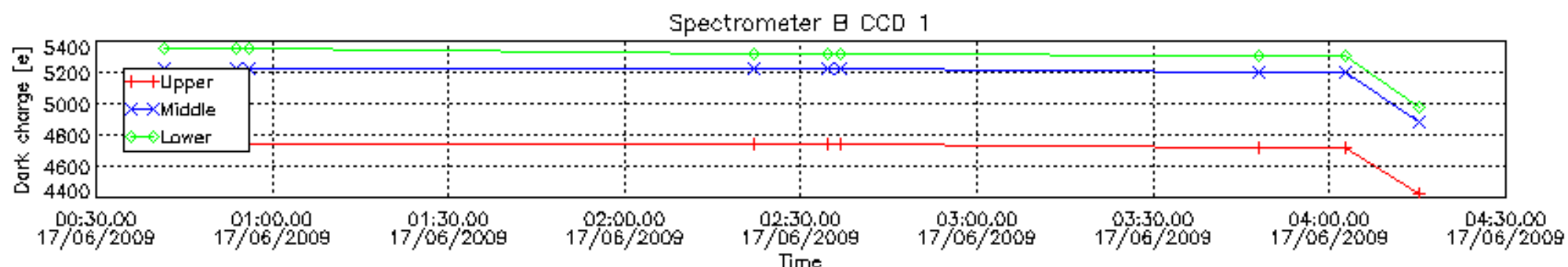
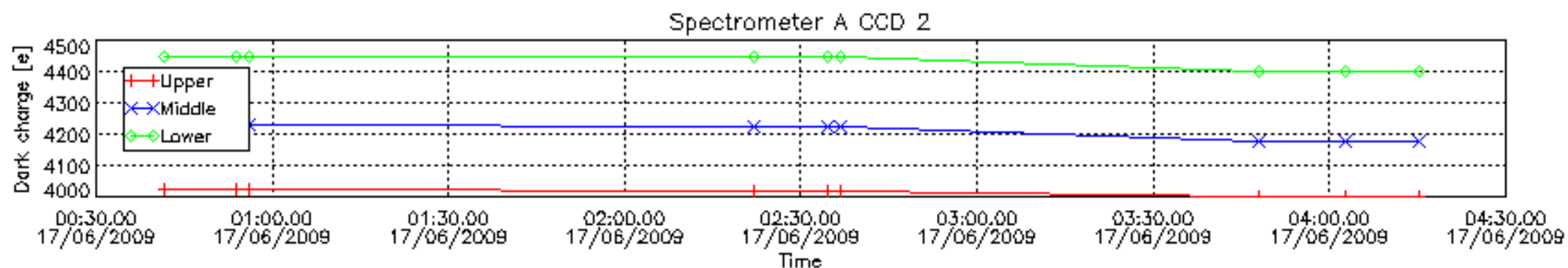
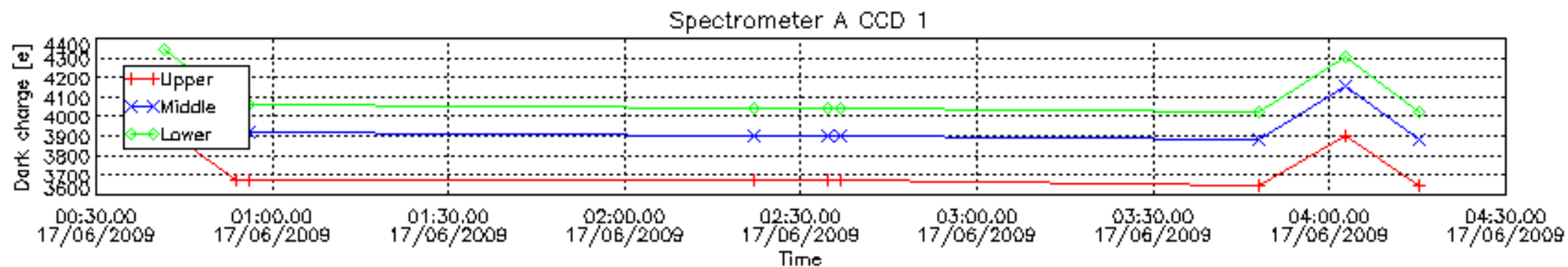
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	17-JUN-2009 00:06:30
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090615_121800_20090613_000000_20100101_000000	1	17-JUN-2009 00:06:30
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	17-JUN-2009 00:06:30
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	17-JUN-2009 00:06:30
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	17-JUN-2009 00:06:30
ECMWF_FILE	AUX_ECF_AXNECM20090616_064112_20090616_210000_20090617_090000	1	17-JUN-2009 00:06:30
ECMWF_FILE	AUX_ECF_AXNECM20090616_192113_20090617_030000_20090617_150000	32	17-JUN-2009 03:34:12
OPTIONAL_ECMWF_FILE	MISSING	1	17-JUN-2009 00:06:30
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090616_211155_000057382080_00014_38144_8166.N1	1	17-JUN-2009 00:06:30
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090616_225252_000057382080_00015_38145_8167.N1	5	17-JUN-2009 00:41:30
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090617_003349_000054192080_00016_38146_8168.N1	20	17-JUN-2009 02:22:07
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090617_020927_000041442080_00017_38147_8169.N1	32	17-JUN-2009 03:34:12
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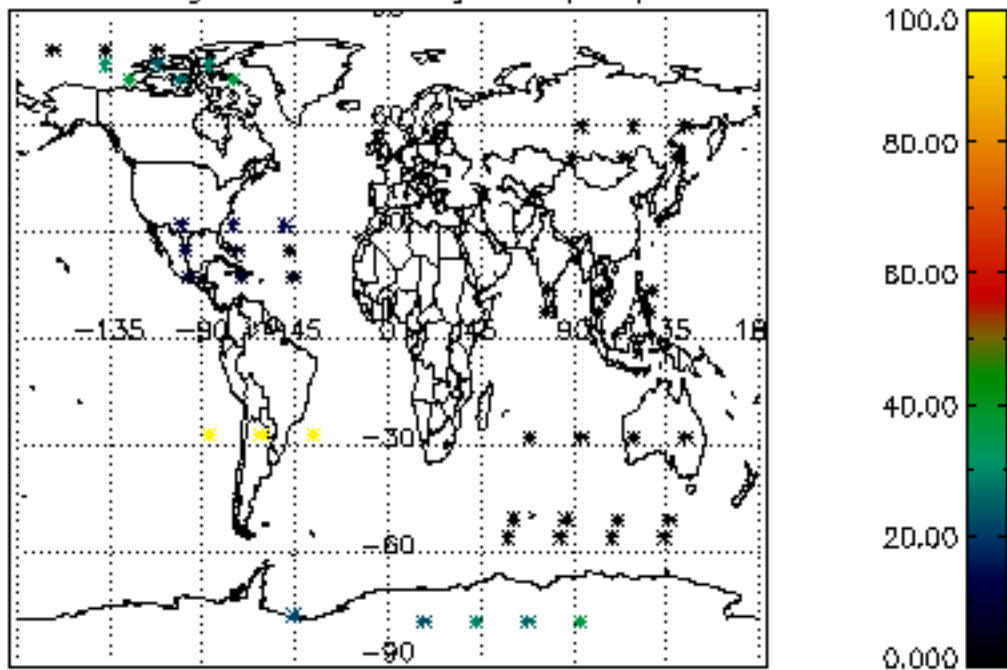




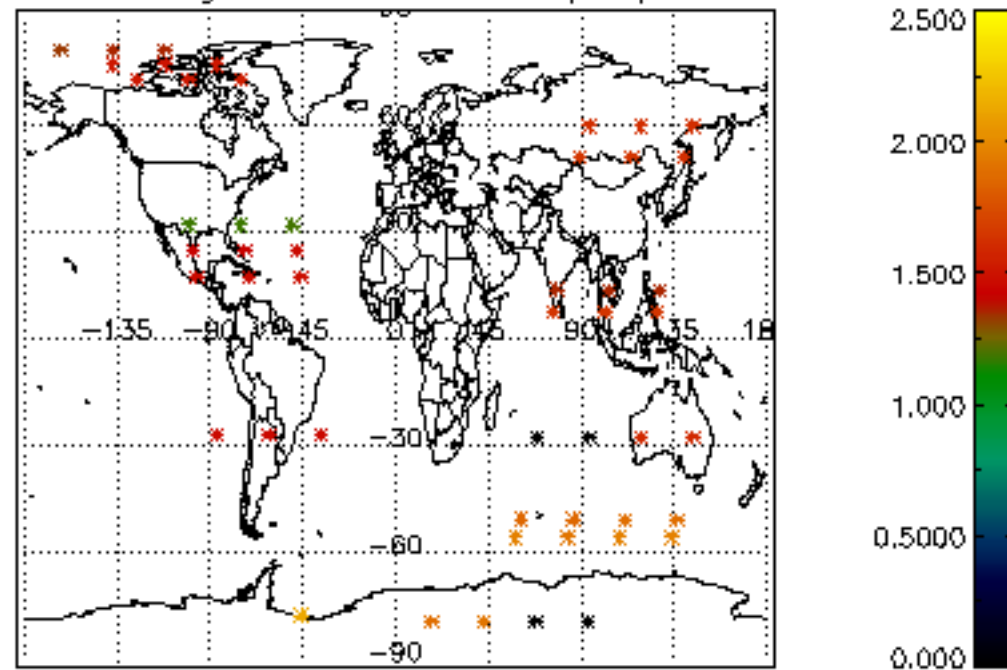




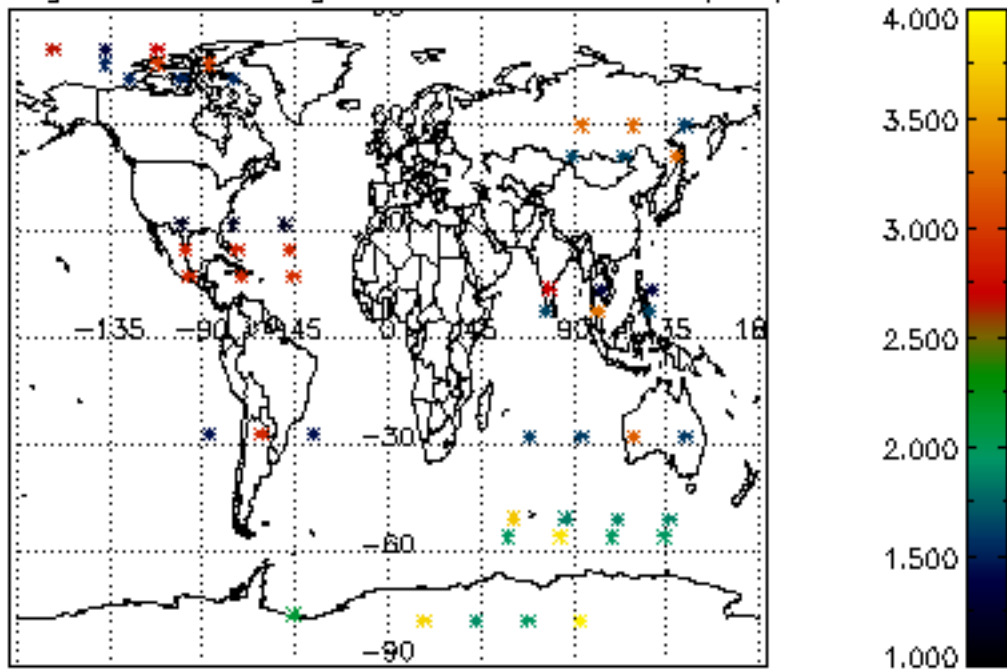
Percentage of cosmic ray hits per profile



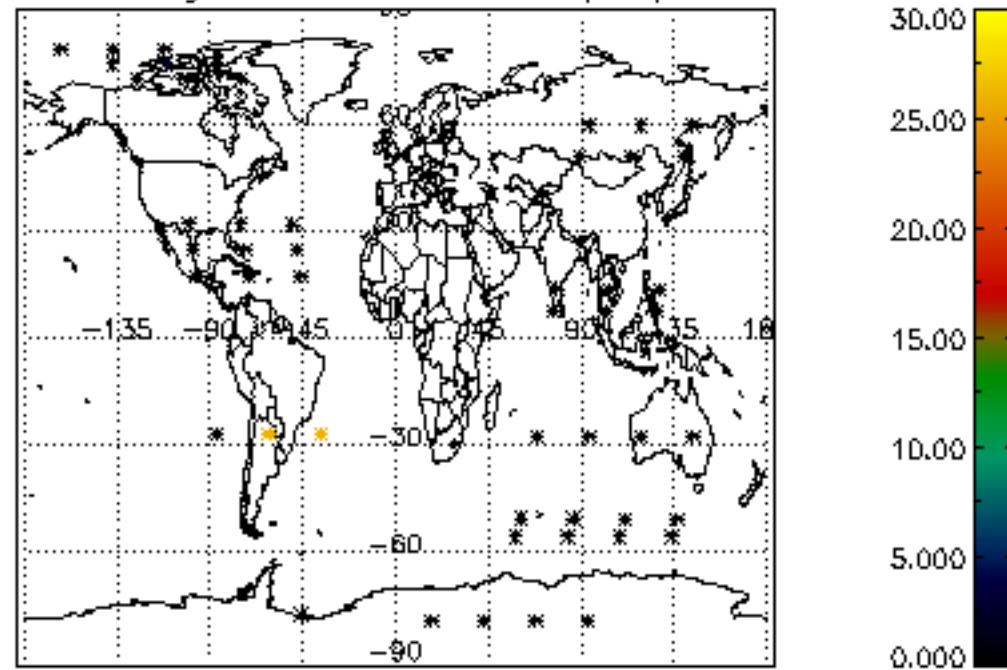
Percentage of datation errors per profile



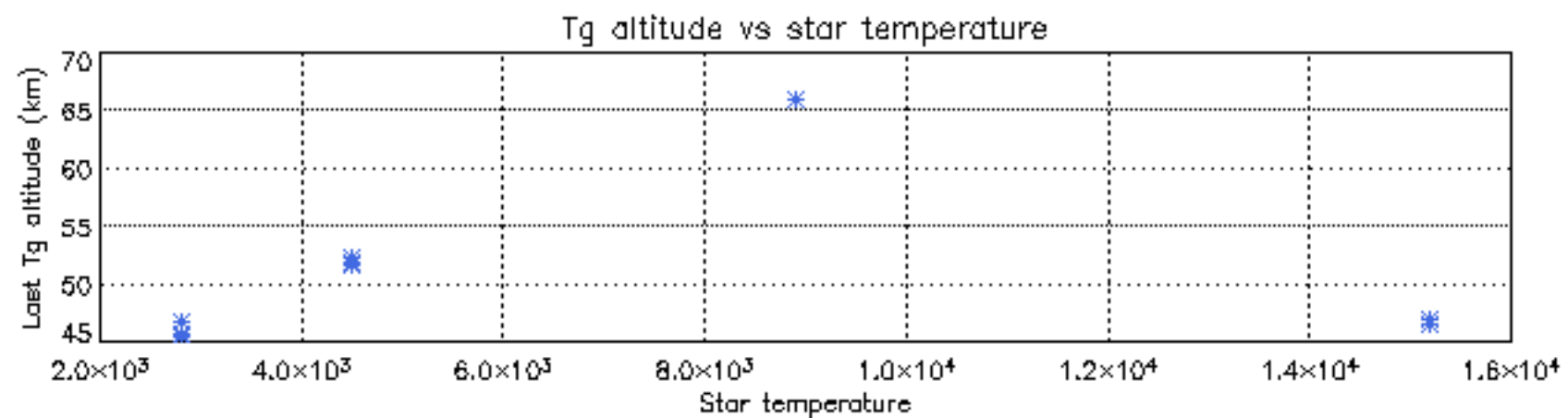
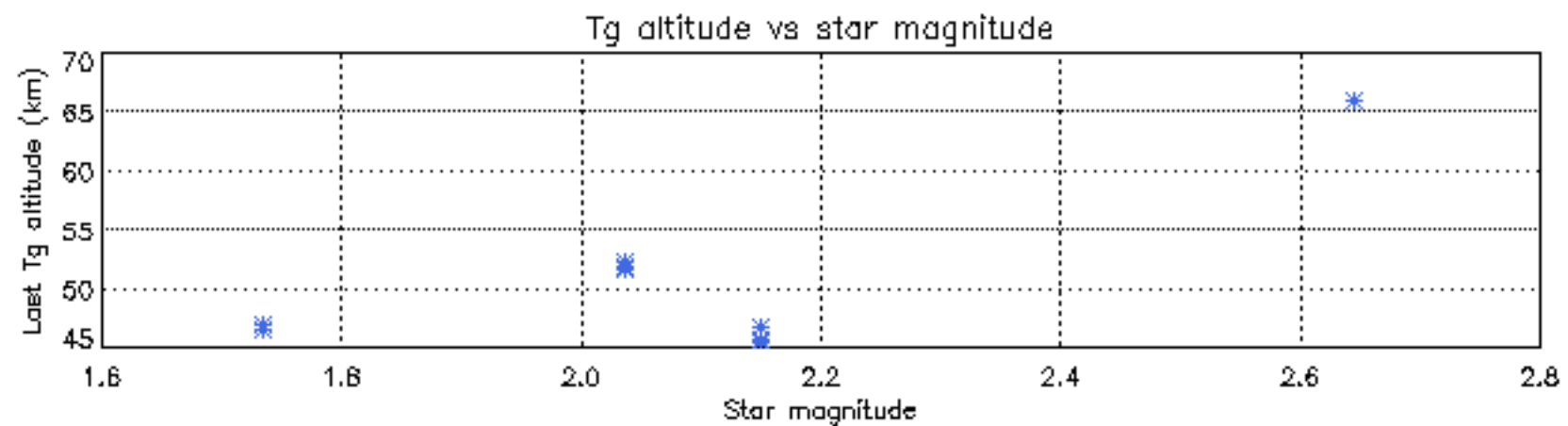
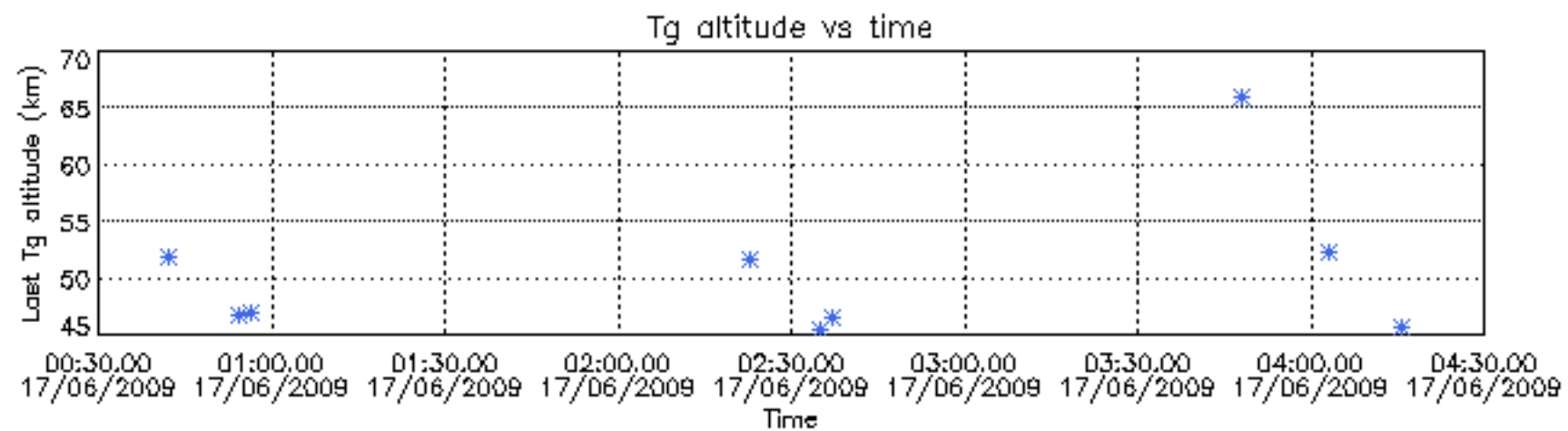
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

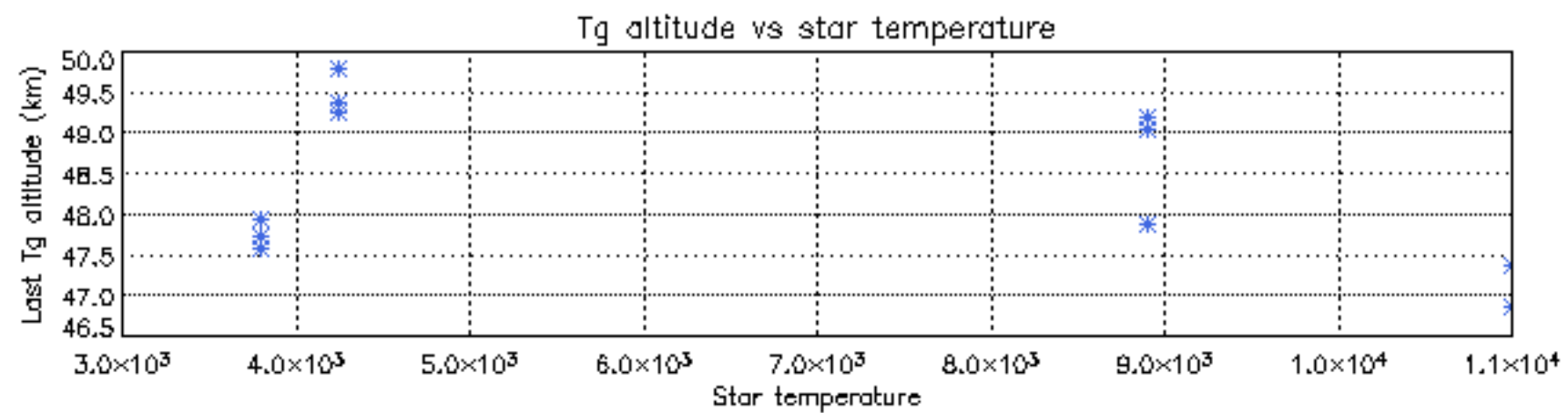
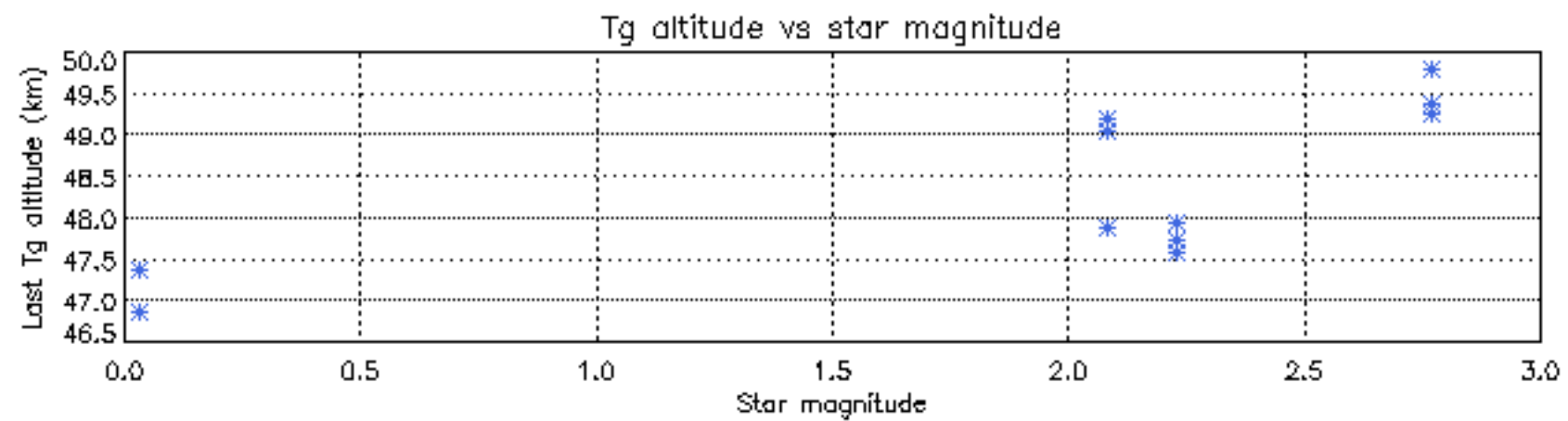
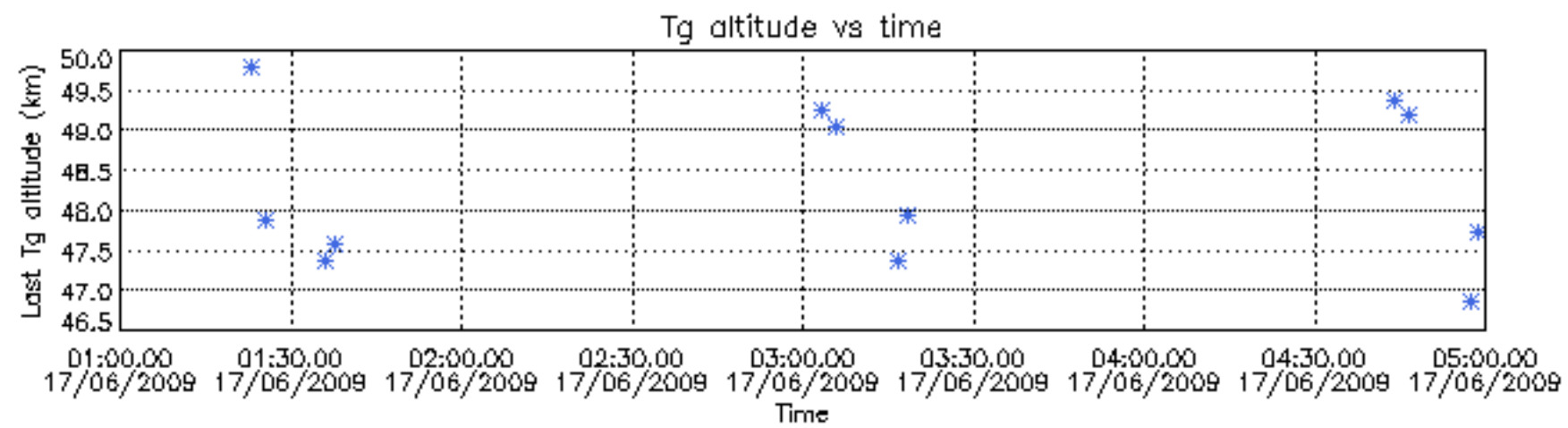


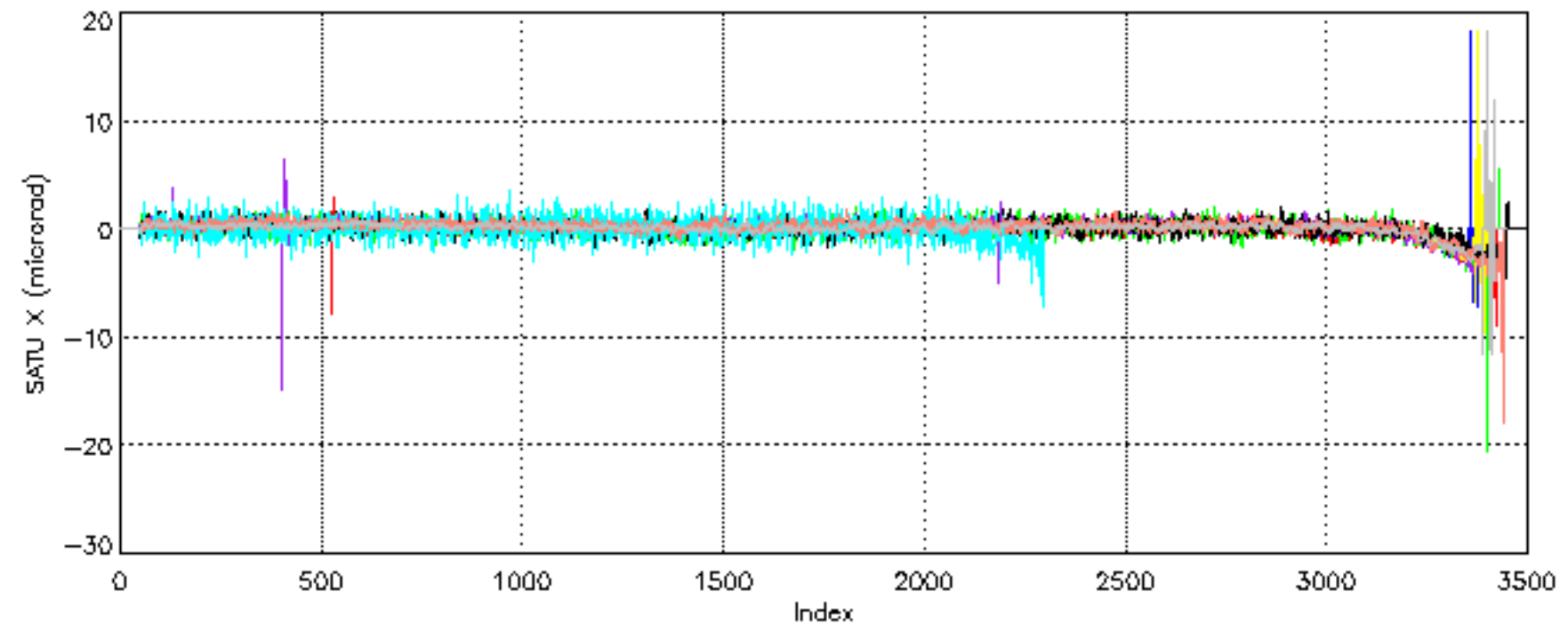
Tangent altitude at which the star is lost

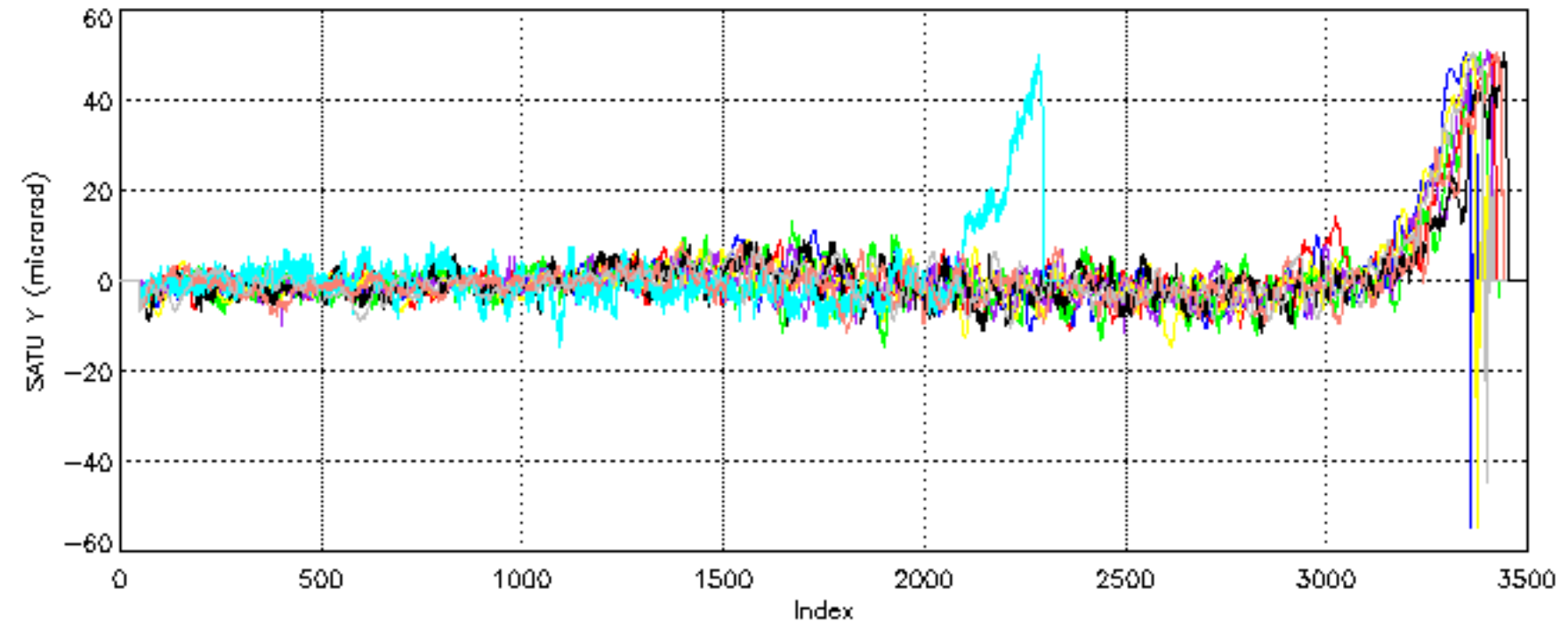




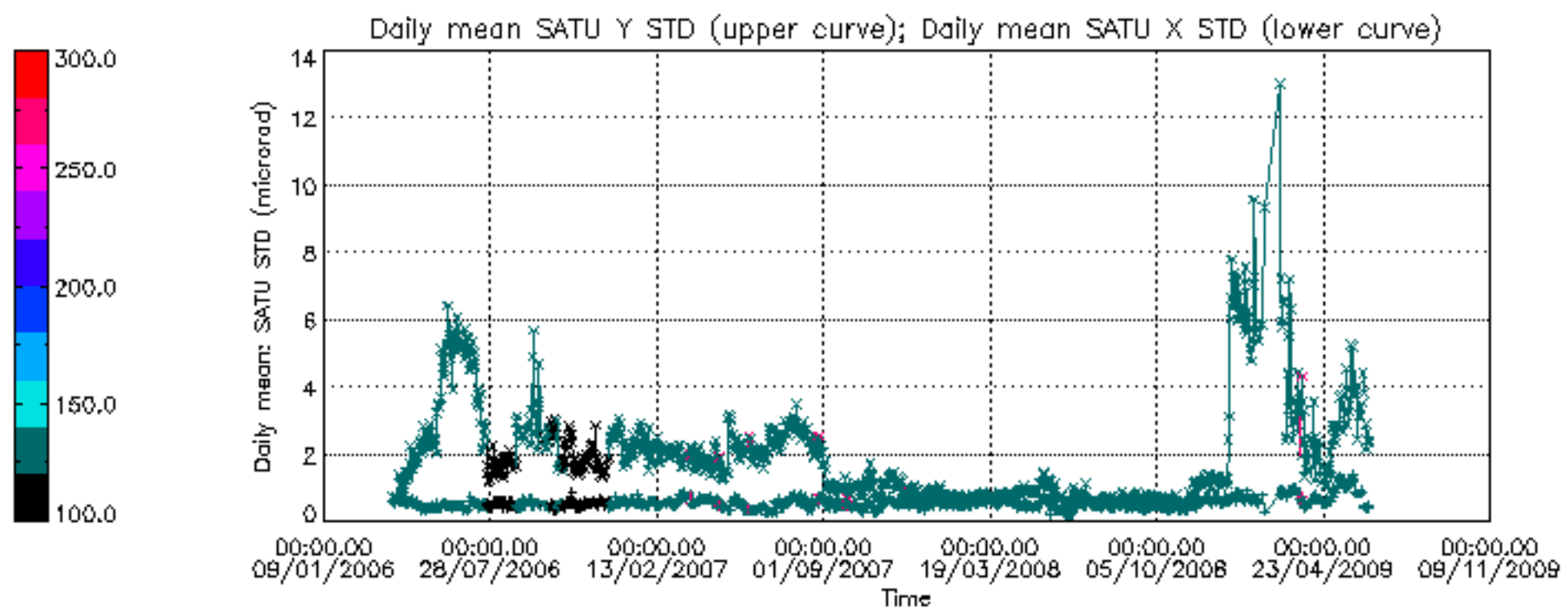
Tangent altitude at which the star is lost











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4; 1207.7; 01-JUN-2009 01:12:04; Dark ; 37.0; 116; 19Del Sgr ; 2.70; 4100;occ; 74; 0;37918
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7; 3604.8; 03-JUN-2009 19:15:23; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;37957
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7; 3595.5; 04-JUN-2009 20:24:12; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;37972
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3; 2505.7; 04-JUN-2009 13:23:39; Bright; 30.5; 133; 40Zet Her ; 2.81; 6000;occ; 61; 0;37968
4; 2945.8; 04-JUN-2009 13:30:59; Bright; 31.5; 130; 23Bet Dra ; 2.80; 5800;occ; 63; 0;37968
5; 3597.9; 04-JUN-2009 13:41:51; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;37968
6; 3923.1; 04-JUN-2009 13:47:16; Bright; 24.5; 74; 11Bet Cas ; 2.27; 6600;occ; 49; 0;37968
7; 5329.5; 04-JUN-2009 14:10:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37968
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8; 2303.6; 05-JUN-2009 02:45:04; Bright; 30.0; 127; 27Bet Her ; 2.78; 4700;occ; 60; 0;37976
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9; 3577.4; 06-JUN-2009 21:01:16; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;38001
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4; 3553.3; 09-JUN-2009 12:43:37; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;38039
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6; 318.6; 10-JUN-2009 07:56:54; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38051
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5; 3902.5; 10-JUN-2009 08:56:38; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38051
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11; 6356.4; 10-JUN-2009 11:18:08; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38052
12; 7209.9; 10-JUN-2009 11:32:21; Dark ; 31.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 62; 0;38052
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3; 2900.1; 10-JUN-2009 15:22:19; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38055
4; 3542.3; 10-JUN-2009 15:33:01; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38055
5; 3901.1; 10-JUN-2009 15:39:00; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38055
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7; 5380.0; 10-JUN-2009 16:03:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38055
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6; 330.6; 11-JUN-2009 04:04:17; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38063
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3; -647.6; 11-JUN-2009 07:09:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38064
4; -535.1; 11-JUN-2009 07:11:03; Dark ; 31.0; 52; 16Bet Cet ; 2.04; 4500;occ; 62; 0;38064
5; 86.6; 11-JUN-2009 07:21:25; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;38065
6; 210.9; 11-JUN-2009 07:23:29; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38065
7; 332.4; 11-JUN-2009 07:25:31; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38065
8; 424.1; 11-JUN-2009 07:27:03; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38065
9; 1179.4; 11-JUN-2009 07:39:38; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38065
10; 1298.6; 11-JUN-2009 07:41:37; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38065
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2; 2181.8; 11-JUN-2009 07:56:20; Bright; 33.5; 59; 55Alp Oph ; 2.08; 8900;occ; 67; 0;38065
3; 2895.2; 11-JUN-2009 08:08:14; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38065
4; 3535.5; 11-JUN-2009 08:18:54; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38065
5; 3898.7; 11-JUN-2009 08:24:57; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38065
6; 4406.8; 11-JUN-2009 08:33:25; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38065
7; 5389.2; 11-JUN-2009 08:49:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38065
8; 5501.8; 11-JUN-2009 08:51:40; Dark ; 31.0; 52; 16Bet Cet ; 2.04; 4500;occ; 62; 0;38065
9; 6124.3; 11-JUN-2009 09:02:03; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;38065
10; 6247.7; 11-JUN-2009 09:04:06; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38065
11; 6369.4; 11-JUN-2009 09:06:08; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38065
12; 6461.4; 11-JUN-2009 09:07:40; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38065
13; 7215.7; 11-JUN-2009 09:20:14; Dark ; 29.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 59; 0;38065
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2; 2181.6; 11-JUN-2009 09:36:56; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38066
3; 2894.9; 11-JUN-2009 09:48:49; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38066
4; 3535.0; 11-JUN-2009 09:59:29; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;38066
5; 3898.3; 11-JUN-2009 10:05:33; Bright; 24.5; 74; 11Bet Cas ; 2.27; 6600;occ; 49; 0;38066
6; 4406.9; 11-JUN-2009 10:14:01; Dark ; 23.5; 53; 43Bet And ; 2.05; 3300;occ; 47; 0;38066
7; 5390.1; 11-JUN-2009 10:30:25; Dark ; 39.0; 0; ; 0.00; 0;occ; 78; 0;38066
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3; 89.9; 11-JUN-2009 10:42:40; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;38067
4; 213.0; 11-JUN-2009 10:44:43; Dark ; 33.0; 63; Bet Gru ; 2.15; 2800;occ; 66; 0;38067
5; 334.5; 11-JUN-2009 10:46:45; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38067
6; 427.0; 11-JUN-2009 10:48:17; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38067
7; 1180.2; 11-JUN-2009 11:00:50; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38067
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2; 1301.9; 11-JUN-2009 21:06:28; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38073
3; 2023.1; 11-JUN-2009 21:18:29; Bright; 33.5; 126; 60Bet Oph ; 2.77; 4250;occ; 67; 0;38073

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5; 2891.6; 11-JUN-2009 21:32:58; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38073
6; 3530.5; 11-JUN-2009 21:43:37; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38073
7; 3895.9; 11-JUN-2009 21:49:42; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38073
8; 4407.3; 11-JUN-2009 21:58:13; Dark ; 24.0; 53; 43Bet And ; 2.05; 3300;occ; 48; 0;38073
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3; 100.7; 11-JUN-2009 22:27:03; Dark ; 45.0; 18; 24Alp PsA ; 1.17; 9700;occ; 90; 0;38074
4; 219.4; 11-JUN-2009 22:29:01; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38074
5; 341.4; 11-JUN-2009 22:31:03; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38074
6; 436.4; 11-JUN-2009 22:32:38; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38074
7; 1183.0; 11-JUN-2009 22:45:05; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38074
8; 1302.2; 11-JUN-2009 22:47:04; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38074
9; 2022.6; 11-JUN-2009 22:59:04; Bright; 33.5; 126; 60Bet Oph ; 2.77; 4250;occ; 67; 0;38074
10; 2178.4; 11-JUN-2009 23:01:40; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38074
11; 2891.3; 11-JUN-2009 23:13:33; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38074
12; 3529.7; 11-JUN-2009 23:24:12; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38074
13; 3895.7; 11-JUN-2009 23:30:18; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38074
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3; 102.2; 12-JUN-2009 00:07:40; Dark ; 45.0; 18; 24Alp PsA ; 1.17; 9700;occ; 90; 0;38075
4; 220.2; 12-JUN-2009 00:09:38; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38075
5; 342.0; 12-JUN-2009 00:11:40; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38075
6; 437.5; 12-JUN-2009 00:13:15; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38075
7; 1183.4; 12-JUN-2009 00:25:41; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38075
8; 1302.8; 12-JUN-2009 00:27:40; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38075
9; 2022.3; 12-JUN-2009 00:39:40; Bright; 33.5; 126; 60Bet Oph ; 2.77; 4250;occ; 67; 0;38075
10; 2177.9; 12-JUN-2009 00:42:16; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38075
11; 2891.0; 12-JUN-2009 00:54:09; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38075
12; 3529.0; 12-JUN-2009 01:04:47; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38075
13; 3895.4; 12-JUN-2009 01:10:53; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38075
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3; 2894.5; 11-JUN-2009 11:29:25; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38067
4; 3897.6; 11-JUN-2009 11:46:08; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38067
5; 4406.8; 11-JUN-2009 11:54:37; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38067
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7; 5503.7; 11-JUN-2009 12:12:54; Dark ; 31.0; 52; 16Bet Cet ; 2.04; 4500;occ; 62; 0;38067
8; 6127.5; 11-JUN-2009 12:23:18; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;38067
9; 6249.9; 11-JUN-2009 12:25:20; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38067
10; 6371.3; 11-JUN-2009 12:27:22; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38067
11; 6464.1; 11-JUN-2009 12:28:54; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38067
12; 7216.3; 11-JUN-2009 12:41:27; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38067
13; 7335.7; 11-JUN-2009 12:43:26; Dark ; 35.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 71; 0;38067
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4; 3533.5; 11-JUN-2009 13:20:40; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38068
5; 3897.4; 11-JUN-2009 13:26:44; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38068
6; 4407.0; 11-JUN-2009 13:35:13; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38068
7; 5392.0; 11-JUN-2009 13:51:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38068
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9; 6128.9; 11-JUN-2009 14:03:55; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;38068
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13; 7216.8; 11-JUN-2009 14:22:03; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38068
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5; 3897.2; 11-JUN-2009 15:07:19; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38069
6; 4407.4; 11-JUN-2009 15:15:49; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38069
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13; 7217.5; 11-JUN-2009 16:02:40; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38069
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3; 2180.2; 11-JUN-2009 16:19:18; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38070
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6; 3532.0; 11-JUN-2009 18:22:26; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38071
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3; 2023.3; 11-JUN-2009 19:37:53; Bright; 33.5; 126; 60Bet Oph ; 2.77; 4250;occ; 67; 0;38072
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5; 2892.1; 11-JUN-2009 19:52:22; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38072
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8; 4407.5; 11-JUN-2009 20:17:38; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38072
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9; 2022.1; 12-JUN-2009 02:20:16; Bright; 33.5; 126; 60Bet Oph ; 2.77; 4250;occ; 67; 0;38076
10; 2177.5; 12-JUN-2009 02:22:51; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38076

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13; 2890.2; 12-JUN-2009 04:15:20; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38077
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4; 2173.2; 12-JUN-2009 20:49:22; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38087
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6; 3521.0; 12-JUN-2009 21:11:50; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38087
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8; 1308.3; 12-JUN-2009 22:15:33; Dark ; 35.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 71; 0;38088
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3; 347.0; 12-JUN-2009 08:34:45; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38080
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5; 1185.5; 12-JUN-2009 08:48:43; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38080
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3; 2888.4; 12-JUN-2009 09:17:06; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38080  
4; 3525.9; 12-JUN-2009 09:27:43; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38080  
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6; 4409.0; 13-JUN-2009 10:51:25; Dark ; 25.0; 53; 43Bet And ; 2.05; 3300;occ; 50; 0;38095
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11; 6398.8; 13-JUN-2009 11:24:35; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38095
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3; 1366.4; 13-JUN-2009 18:23:42; Bright; 32.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 64; 0;38100
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4; 2792.1; 16-JUN-2009 13:51:25; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38140
5; 2892.3; 16-JUN-2009 13:53:05; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38140

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5; 3478.0; 17-JUN-2009 08:29:27; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38151
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16; 2881.4; 18-JUN-2009 04:26:41; Bright; 30.0; 69; 33Gam Dra ; 2.23; 3800;occ; 60; 0;38163
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11; 1336.7; 18-JUN-2009 05:41:32; Dark ; 32.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 65; 0;38164
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 3; 1442.9; 18-JUN-2009 20:48:42; Bright; 36.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 72; 0;38173
 4; 1998.5; 18-JUN-2009 20:57:57; Bright; 29.5; 126; 60Bet Oph ; 2.77; 4250;occ; 59; 0;38173
 5; 2146.5; 18-JUN-2009 21:00:25; Bright; 29.5; 59; 55Alp Oph ; 2.08; 8900;occ; 59; 0;38173
 6; 2763.8; 18-JUN-2009 21:10:43; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;38173
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3; 316.9; 18-JUN-2009 22:10:32; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38174  
4; 440.0; 18-JUN-2009 22:12:35; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38174  
5; 570.1; 18-JUN-2009 22:14:45; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;38174  
6; 1255.3; 18-JUN-2009 22:26:10; Dark ; 32.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 64; 0;38174  
7; 1339.9; 18-JUN-2009 22:27:35; Dark ; 32.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 64; 0;38174  
8; 1443.2; 18-JUN-2009 22:29:18; Bright; 35.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 71; 0;38174  
9; 1998.2; 18-JUN-2009 22:38:33; Bright; 30.0; 126; 60Bet Oph ; 2.77; 4250;occ; 60; 0;38174  
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13; 3462.1; 18-JUN-2009 23:02:57; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38174  
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16; 4413.9; 18-JUN-2009 23:18:49; Dark ; 26.5; 53; 43Bet And ; 2.05; 3300;occ; 53; 0;38174  
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4; 440.9; 18-JUN-2009 23:53:12; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38175  
5; 571.0; 18-JUN-2009 23:55:22; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38175  
6; 1255.5; 19-JUN-2009 00:06:46; Dark ; 32.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 64; 0;38175  
7; 1340.0; 19-JUN-2009 00:08:11; Dark ; 32.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 65; 0;38175  
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9; 1998.0; 19-JUN-2009 00:19:09; Bright; 29.5; 126; 60Bet Oph ; 2.77; 4250;occ; 59; 0;38175  
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 11; 593.4; 20-JUN-2009 04:25:55; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38192  
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13; 1315.5; 20-JUN-2009 06:18:33; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38193
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 8; 3443.5; 20-JUN-2009 20:18:48; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38201
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 4; 344.2; 20-JUN-2009 21:07:45; Dark ; 35.0; 63; Bet Gru ; 2.15; 2800;occ; 70; 0;38202
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11; 2139.8; 20-JUN-2009 21:37:41; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38202
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 6; 606.9; 20-JUN-2009 22:52:44; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38203
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14; 6624.0; 29-JUN-2009 19:48:27; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38329
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3; 473.2; 30-JUN-2009 00:48:20; Dark ; 66.0; 63; Bet Gru ; 2.15; 2800;occ; 132; 0;38333
4; 590.9; 30-JUN-2009 00:50:18; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38333
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6; 1478.2; 30-JUN-2009 01:05:05; Bright; 47.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 94; 0;38333
7; 2239.9; 30-JUN-2009 01:17:47; Bright; 48.0; 168; 17Zet Aql ; 2.99; 11000;occ; 96; 0;38333
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14; 4423.9; 30-JUN-2009 01:54:11; Dark ; 38.5; 173; 4Bet Tri ; 3.00; 8900;occ; 77; 0;38333
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10; 763.9; 30-JUN-2009 04:14:23; Dark ; 57.5; 172; Gam Gru ; 3.00; 13100;occ; 115; 0;38335
11; 1478.7; 30-JUN-2009 04:26:18; Bright; 48.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 97; 0;38335
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