

# GOMOS Daily Report 14-JUN-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	17JUN2009 04:36:21
Data source version	GOMOS/5.00
Start time of products	14JUN2009 00:01:14
Stop time of products	14JUN2009 06:06:36
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

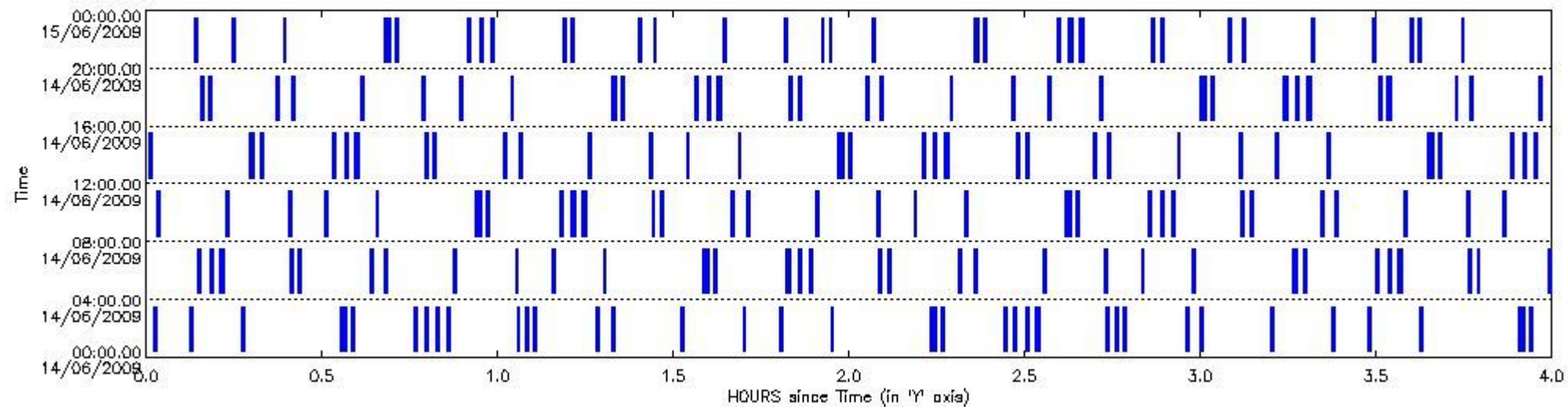
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

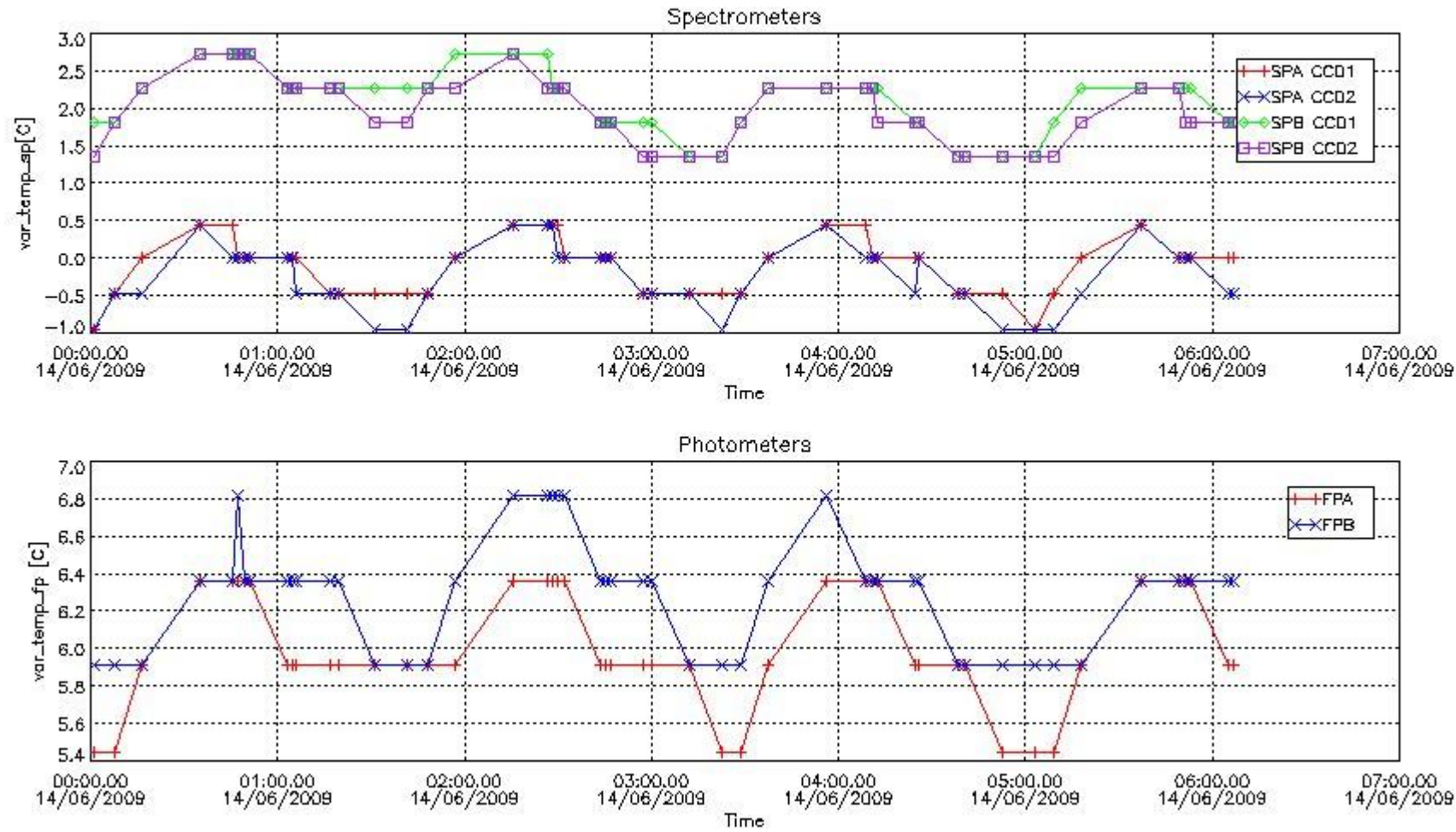
No missing products.

### 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_1PNPDE20090614_000114_000000322079_00474_38103_7990.N1	14-JUN-2009 00:01:14	Twilight	31.500	89	5Alp Cep	2.4510	8000.0	63	38103	No
2	GOM_TRA_1PNPDE20090614_000730_000000272079_00474_38103_7991.N1	14-JUN-2009 00:07:30	Twilight	26.500	74	11Bet Cas	2.2680	6600.0	53	38103	No
3	GOM_TRA_1PNPDE20090614_001613_000000252079_00474_38103_7992.N1	14-JUN-2009 00:16:13	Twilight	25.000	53	43Bet And	2.0480	3300.0	50	38103	No
4	GOM_TRA_1PNPDE20090614_003501_000000332079_00474_38103_8144.N1	14-JUN-2009 00:35:01	Dark	32.500	52	16Bet Cet	2.0370	4500.0	65	38103	No
5	GOM_TRA_1PNPDE20090614_004549_000000272079_00475_38104_8145.N1	14-JUN-2009 00:45:49	Dark	27.000	18	24Alp PsA	1.1660	9700.0	54	38104	No
6	GOM_TRA_1PNPDE20090614_004728_000000342079_00475_38104_8146.N1	14-JUN-2009 00:47:28	Dark	34.000	63	Bet Gru	2.1500	2800.0	68	38104	No
7	GOM_TRA_1PNPDE20090614_004930_000000352079_00475_38104_8147.N1	14-JUN-2009 00:49:30	Dark	35.000	31	Alp Gru	1.7340	15200.0	70	38104	No
8	GOM_TRA_1PNPDE20090614_005116_000000432079_00475_38104_8148.N1	14-JUN-2009 00:51:16	Straylight	42.500	172	Gam Gru	3.0030	13100.0	85	38104	No
9	GOM_TRA_1PNPDE20090614_010315_000000302079_00475_38104_8149.N1	14-JUN-2009 01:03:15	Twilight	30.000	38	20Eps Sgr	1.8360	11000.0	60	38104	No
10	GOM_TRA_1PNPDE20090614_010446_000000312079_00475_38104_8150.N1	14-JUN-2009 01:04:46	Twilight	30.500	116	19Del Sgr	2.7000	4100.0	61	38104	No
11	GOM_TRA_1PNPDE20090614_010607_000000322079_00475_38104_8151.N1	14-JUN-2009 01:06:07	Twilight	32.000	137	22Lam Sgr	2.8240	4400.0	64	38104	No
12	GOM_TRA_1PNPDE20090614_011653_000000332079_00475_38104_8152.N1	14-JUN-2009 01:16:53	Bright	32.500	126	60Bet Oph	2.7700	4250.0	65	38104	No

13	GOM_TRA_1PNPDE20090614_011926_000000322079_00475_38104_8153.N1	14-JUN-2009 01:19:26	Bright	32.000	59	55Alp Oph	2.0800	8900.0	64	38104	No
14	GOM_TRA_1PNPDE20090614_013118_000000302079_00475_38104_8154.N1	14-JUN-2009 01:31:18	Bright	29.500	130	23Bet Dra	2.7990	5800.0	59	38104	No
15	GOM_TRA_1PNPDE20090614_014149_000000322079_00475_38104_8155.N1	14-JUN-2009 01:41:49	Twilight	31.500	89	5Alp Cep	2.4510	8000.0	63	38104	No
16	GOM_TRA_1PNPDE20090614_014806_000000262079_00475_38104_8156.N1	14-JUN-2009 01:48:06	Twilight	26.000	74	11Bet Cas	2.2680	6600.0	52	38104	No
17	GOM_TRA_1PNPDE20090614_015649_000000252079_00475_38104_8157.N1	14-JUN-2009 01:56:49	Twilight	24.500	53	43Bet And	2.0480	3300.0	49	38104	No
18	GOM_TRA_1PNPDE20090614_021538_000000332079_00475_38104_8286.N1	14-JUN-2009 02:15:38	Dark	32.500	52	16Bet Cet	2.0370	4500.0	65	38104	No
19	GOM_TRA_1PNPDE20090614_022626_000000272079_00476_38105_8287.N1	14-JUN-2009 02:26:26	Dark	27.000	18	24Alp PsA	1.1660	9700.0	54	38105	No
20	GOM_TRA_1PNPDE20090614_022805_000000342079_00476_38105_8288.N1	14-JUN-2009 02:28:05	Dark	34.000	63	Bet Gru	2.1500	2800.0	68	38105	No
21	GOM_TRA_1PNPDE20090614_023007_000000352079_00476_38105_8289.N1	14-JUN-2009 02:30:07	Dark	34.500	31	Alp Gru	1.7340	15200.	69	38105	No
22	GOM_TRA_1PNPDE20090614_023154_000000432079_00476_38105_8290.N1	14-JUN-2009 02:31:54	Straylight	42.500	172	Gam Gru	3.0030	13100.	85	38105	No
23	GOM_TRA_1PNPDE20090614_024352_000000302079_00476_38105_8291.N1	14-JUN-2009 02:43:52	Twilight	29.500	38	20Eps Sgr	1.8360	11000.	59	38105	No
24	GOM_TRA_1PNPDE20090614_024523_000000312079_00476_38105_8292.N1	14-JUN-2009 02:45:23	Twilight	30.500	116	19Del Sgr	2.7000	4100.0	61	38105	No
25	GOM_TRA_1PNPDE20090614_024644_000000322079_00476_38105_8293.N1	14-JUN-2009 02:46:44	Twilight	32.000	137	22Lam Sgr	2.8240	4400.0	64	38105	No
26	GOM_TRA_1PNPDE20090614_025729_000000332079_00476_38105_8294.N1	14-JUN-2009 02:57:29	Bright	32.500	126	60Bet Oph	2.7700	4250.0	65	38105	No
27	GOM_TRA_1PNPDE20090614_030002_000000322079_00476_38105_8295.N1	14-JUN-2009 03:00:02	Bright	32.000	59	55Alp Oph	2.0800	8900.0	64	38105	No
28	GOM_TRA_1PNPDE20090614_031153_000000302079_00476_38105_8296.N1	14-JUN-2009 03:11:53	Bright	29.500	130	23Bet Dra	2.7990	5800.0	59	38105	No
29	GOM_TRA_1PNPDE20090614_032225_000000322079_00476_38105_8297.N1	14-JUN-2009 03:22:25	Twilight	31.500	89	5Alp Cep	2.4510	8000.0	63	38105	No
30	GOM_TRA_1PNPDE20090614_032842_000000262079_00476_38105_8444.N1	14-JUN-2009 03:28:42	Twilight	26.000	74	11Bet Cas	2.2680	6600.0	52	38105	No
31	GOM_TRA_1PNPDE20090614_033725_000000262079_00476_38105_8445.N1	14-JUN-2009 03:37:25	Twilight	25.500	53	43Bet And	2.0480	3300.0	51	38105	No
32	GOM_TRA_1PNPDE20090614_035615_000000332079_00476_38105_8446.N1	14-JUN-2009 03:56:15	Dark	32.500	52	16Bet Cet	2.0370	4500.0	65	38105	No
33	GOM_TRA_1PNPDE20090614_040841_000000352079_00477_38106_8447.N1	14-JUN-2009 04:08:41	Dark	34.500	63	Bet Gru	2.1500	2800.0	69	38106	No
34	GOM_TRA_1PNPDE20090614_041044_000000352079_00477_38106_8448.N1	14-JUN-2009 04:10:44	Dark	35.000	31	Alp Gru	1.7340	15200.	70	38106	No
35	GOM_TRA_1PNPDE20090614_041231_000000432079_00477_38106_8449.N1	14-JUN-2009 04:12:31	Straylight	42.500	172	Gam Gru	3.0030	13100.	85	38106	No
36	GOM_TRA_1PNPDE20090614_042428_000000302079_00477_38106_8450.N1	14-JUN-2009 04:24:28	Twilight	30.000	38	20Eps Sgr	1.8360	11000.	60	38106	No
37	GOM_TRA_1PNPDE20090614_042559_000000312079_00477_38106_8451.N1	14-JUN-2009 04:25:59	Twilight	30.500	116	19Del Sgr	2.7000	4100.0	61	38106	No
38	GOM_TRA_1PNPDE20090614_043805_000000322079_00477_38106_8452.N1	14-JUN-2009 04:38:05	Bright	32.000	126	60Bet Oph	2.7700	4250.0	64	38106	No
39	GOM_TRA_1PNPDE20090614_044038_000000322079_00477_38106_8453.N1	14-JUN-2009 04:40:38	Bright	32.000	59	55Alp Oph	2.0800	8900.0	64	38106	No
40	GOM_TRA_1PNPDE20090614_045229_000000302079_00477_38106_8454.N1	14-JUN-2009 04:52:29	Bright	29.500	130	23Bet Dra	2.7990	5800.0	59	38106	No
41	GOM_TRA_1PNPDE20090614_050300_000000312079_00477_38106_8455.N1	14-JUN-2009 05:03:00	Twilight	30.500	89	5Alp Cep	2.4510	8000.0	61	38106	No
42	GOM_TRA_1PNPDE20090614_050917_000000272079_00477_38106_8594.N1	14-JUN-2009 05:09:17	Twilight	26.500	74	11Bet Cas	2.2680	6600.0	53	38106	No
43	GOM_TRA_1PNPDE20090614_051802_000000252079_00477_38106_8595.N1	14-JUN-2009 05:18:02	Twilight	25.000	53	43Bet And	2.0480	3300.0	50	38106	No
44	GOM_TRA_1PNPDE20090614_053652_000000332079_00477_38106_8596.N1	14-JUN-2009 05:36:52	Dark	32.500	52	16Bet Cet	2.0370	4500.0	65	38106	No
45	GOM_TRA_1PNPDE20090614_054919_000000352079_00478_38107_8597.N1	14-JUN-2009 05:49:19	Dark	34.500	63	Bet Gru	2.1500	2800.0	69	38107	No
46	GOM_TRA_1PNPDE20090614_055121_000000352079_00478_38107_8598.N1	14-JUN-2009 05:51:21	Dark	35.000	31	Alp Gru	1.7340	15200.	70	38107	No
47	GOM_TRA_1PNPDE20090614_055308_000000432079_00478_38107_8599.N1	14-JUN-2009 05:53:08	Straylight	43.000	172	Gam Gru	3.0030	13100.	86	38107	No
48	GOM_TRA_1PNPDE20090614_060505_000000302079_00478_38107_8600.N1	14-JUN-2009 06:05:05	Twilight	29.500	38	20Eps Sgr	1.8360	11000.	59	38107	No
49	GOM_TRA_1PNPDE20090614_060636_000000302079_00478_38107_8601.N1	14-JUN-2009 06:06:36	Twilight	30.000	116	19Del Sgr	2.7000	4100.0	60	38107	No

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



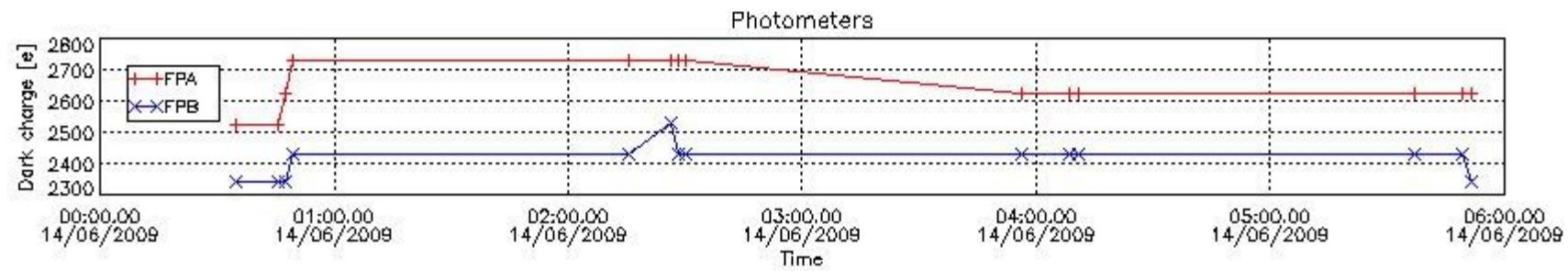
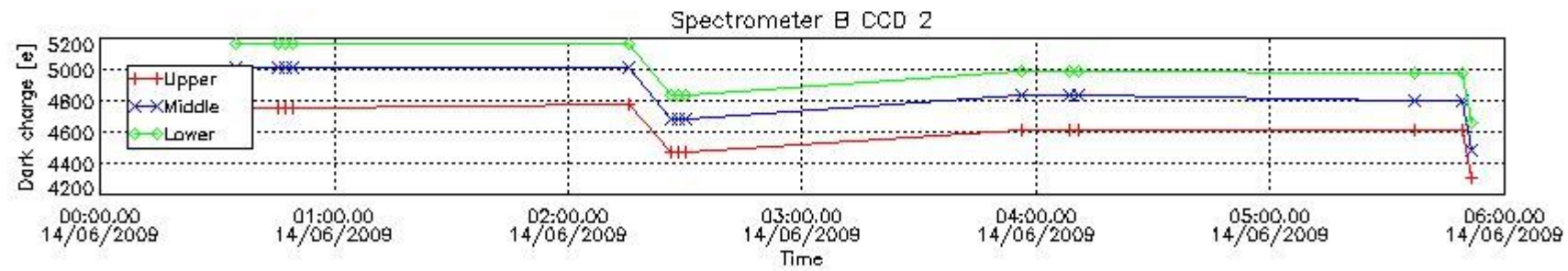
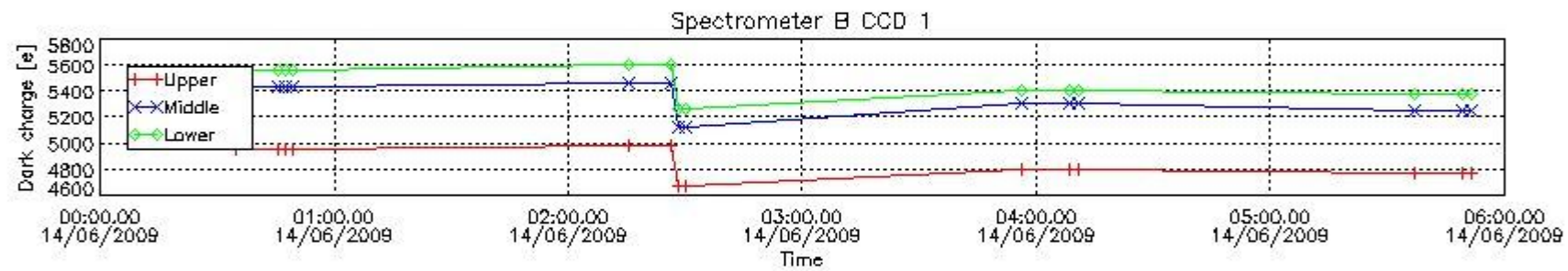
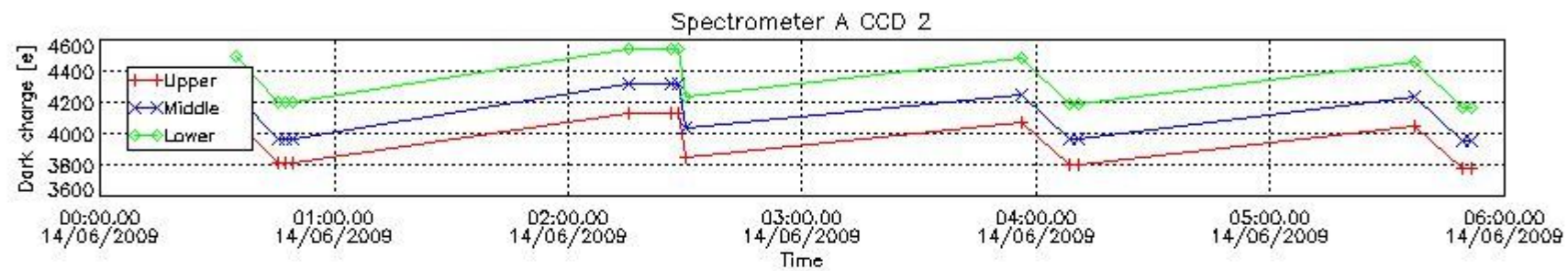
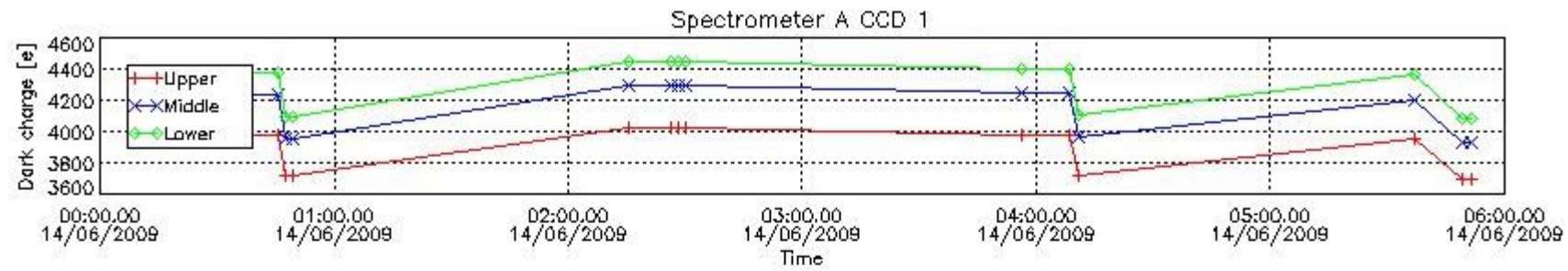
#### 4. Overview of dark signal processing per product

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



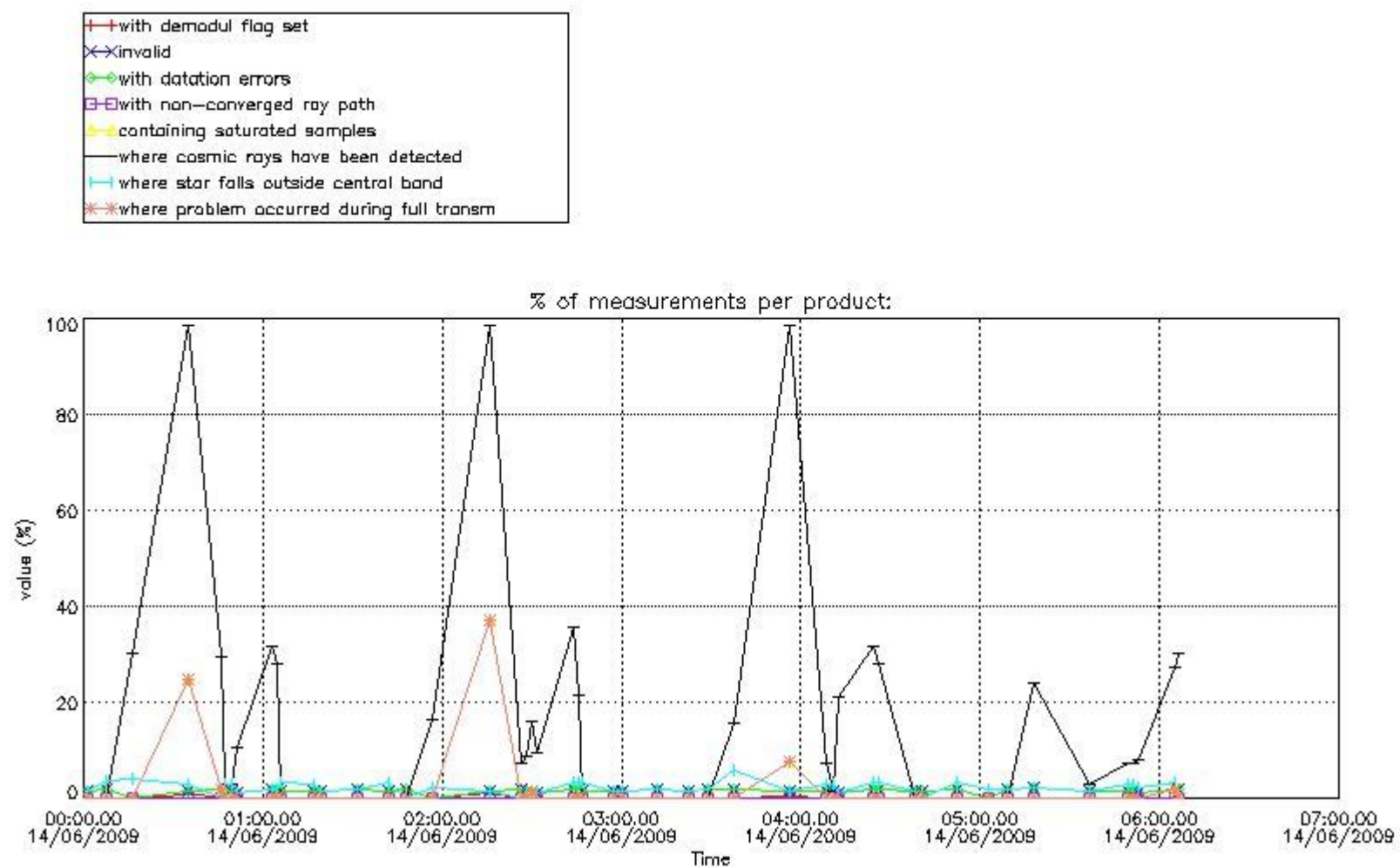
## 5. Demodulation flag and quality information monitoring

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.

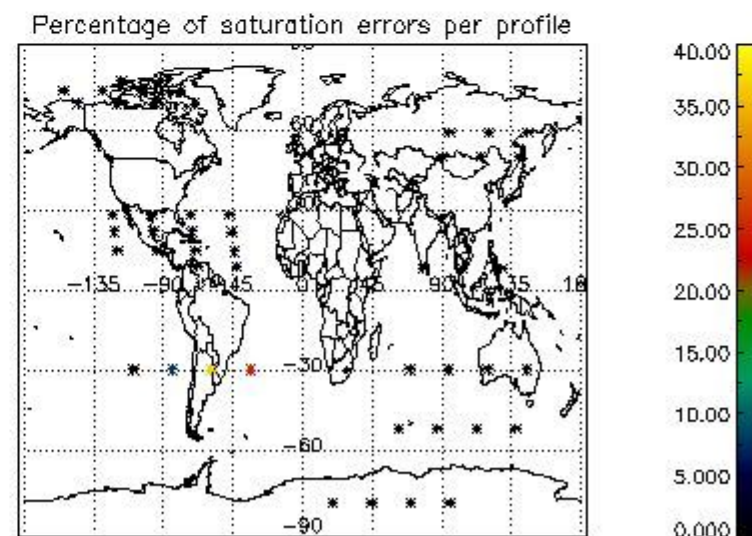
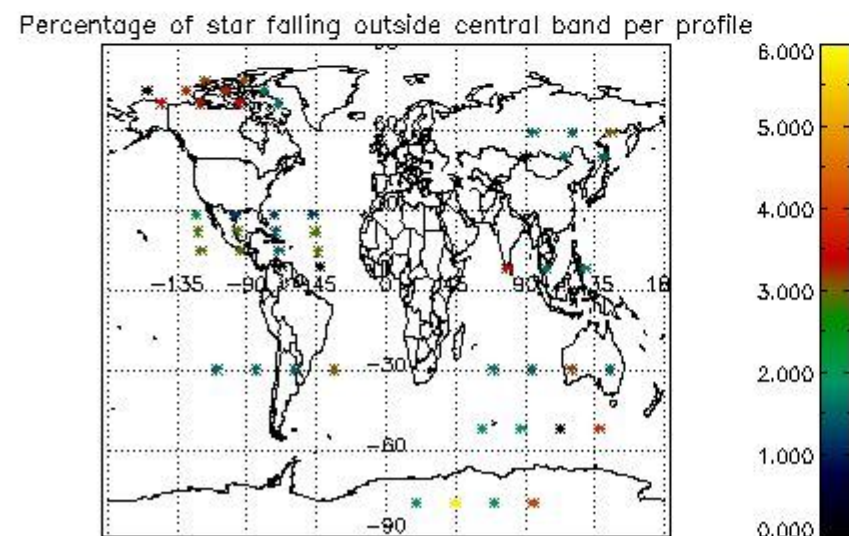
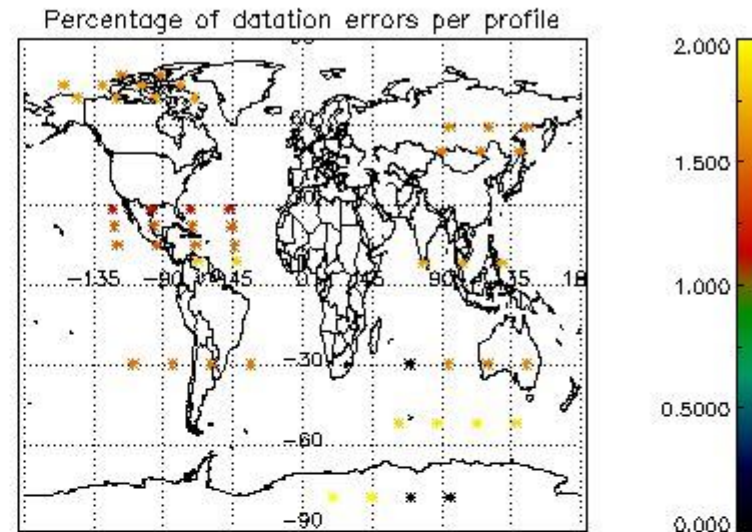
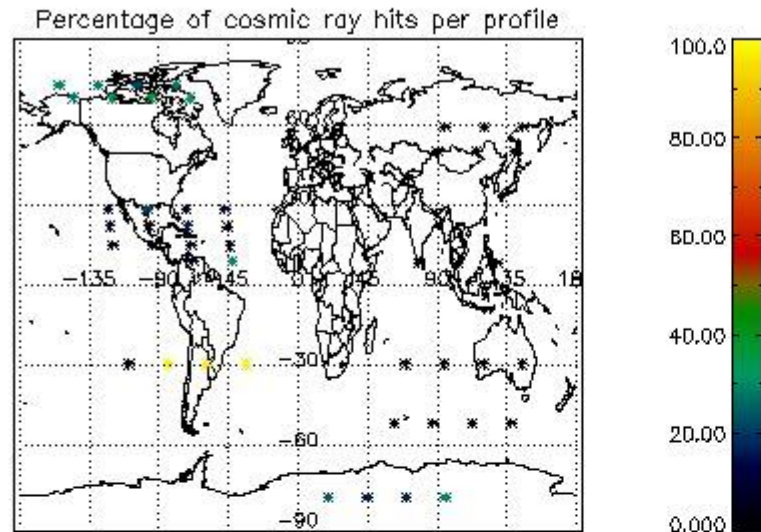
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	36.7347 %
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)



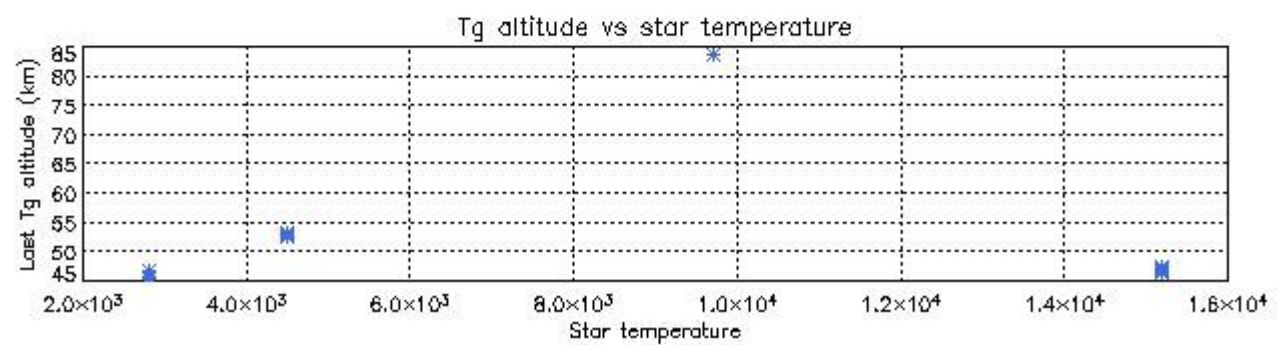
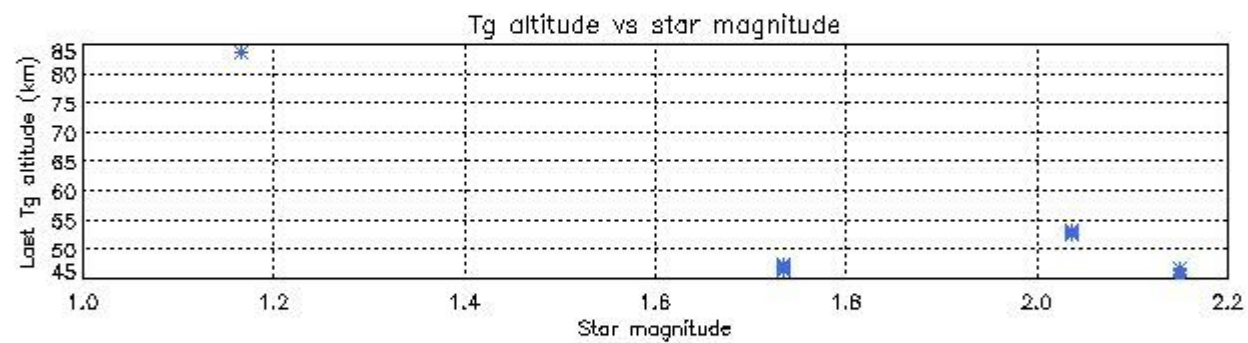
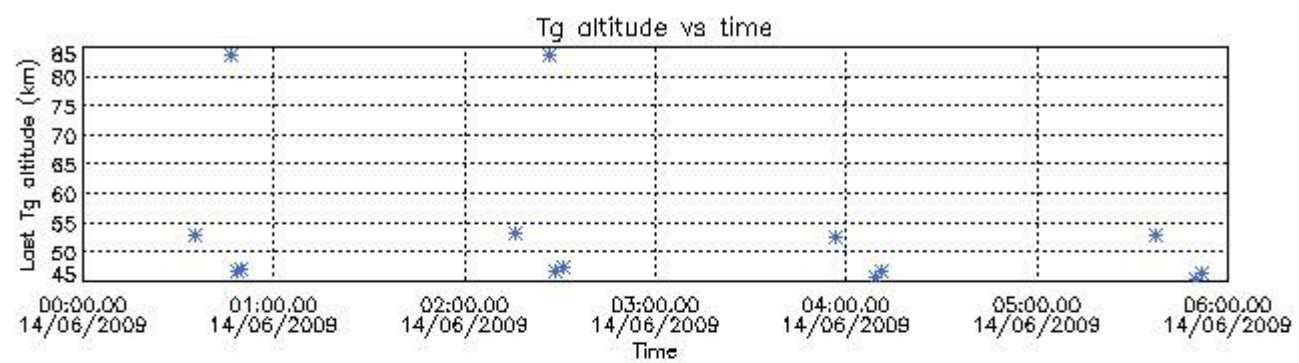
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	53.614	49.128	NaN
St. deviation:	13.099	0.68085	NaN
Maximum:	83.786	50.124	NaN
Minimum:	45.178	48.093	NaN
Number of data:	14.000	9.0000	NaN

### 6.2 Plot for DARK limb products

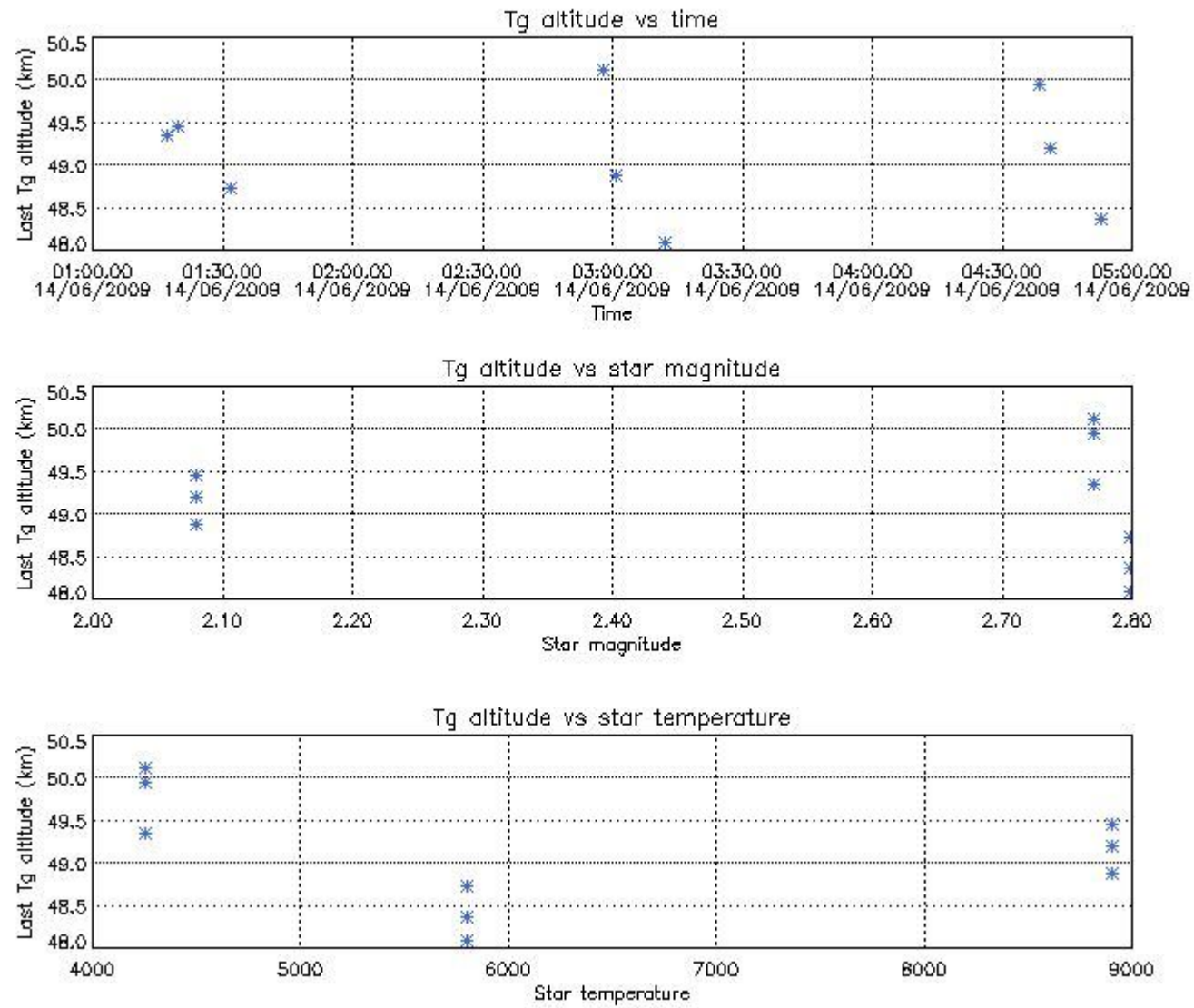
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

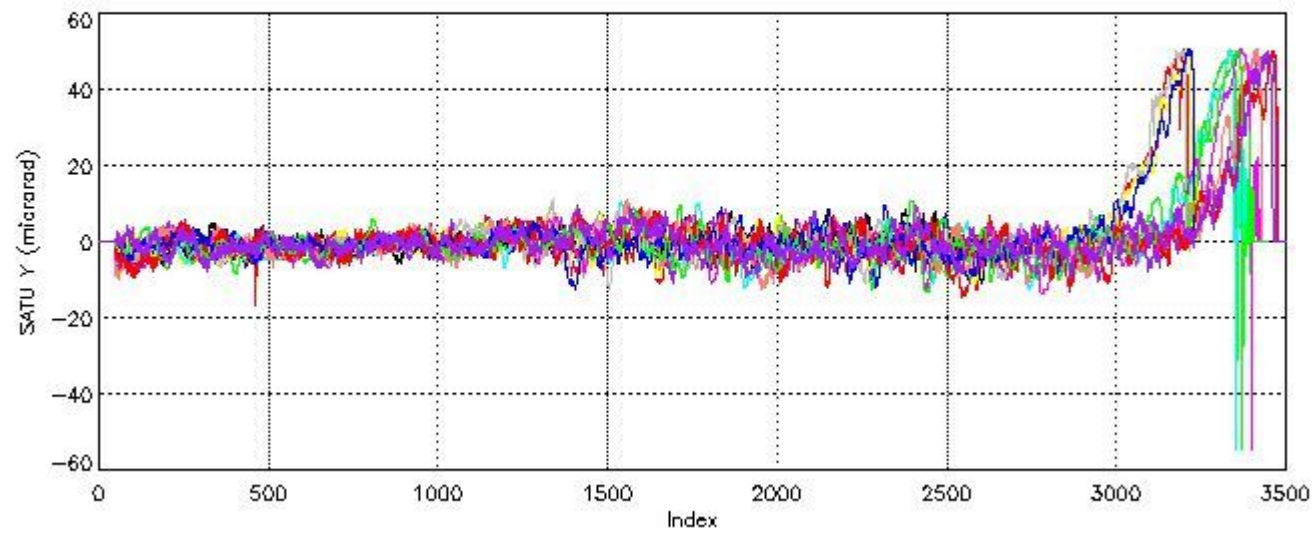
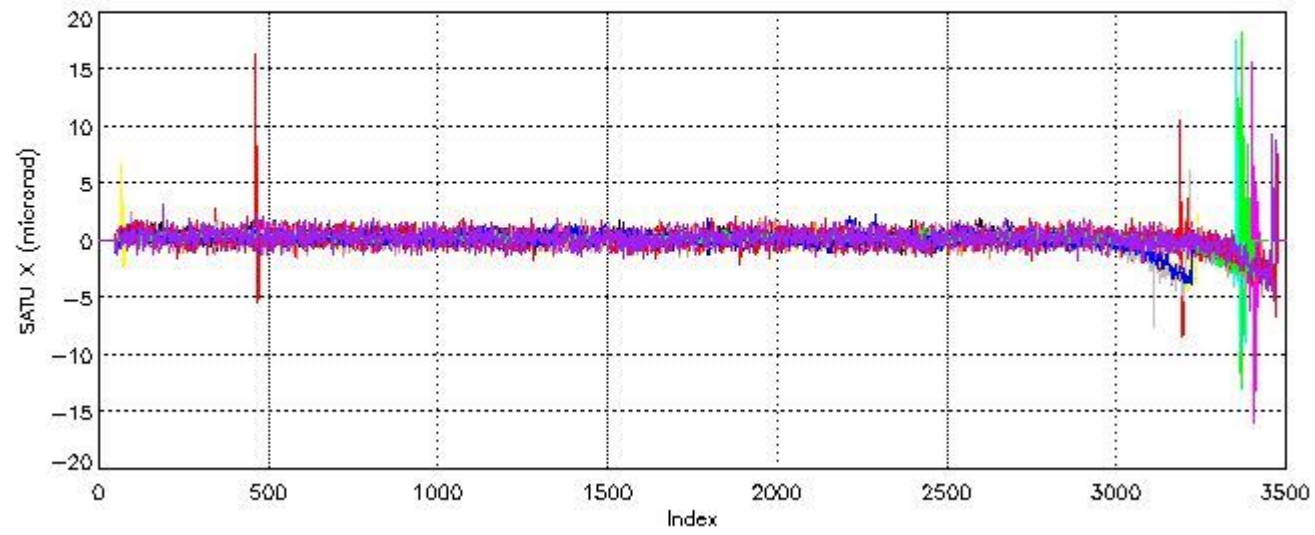


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.31061	-1.1540	0.31275	-0.73581
St. deviation:	0.39099	2.1238	0.76708	2.1445
Maximum:	16.400	6.9000	3.2000	6.9000
Minimum:	-5.5000	-16.600	-2.6000	-9.1000

Number of data:	17000.	17000.	9200.0	9200.0
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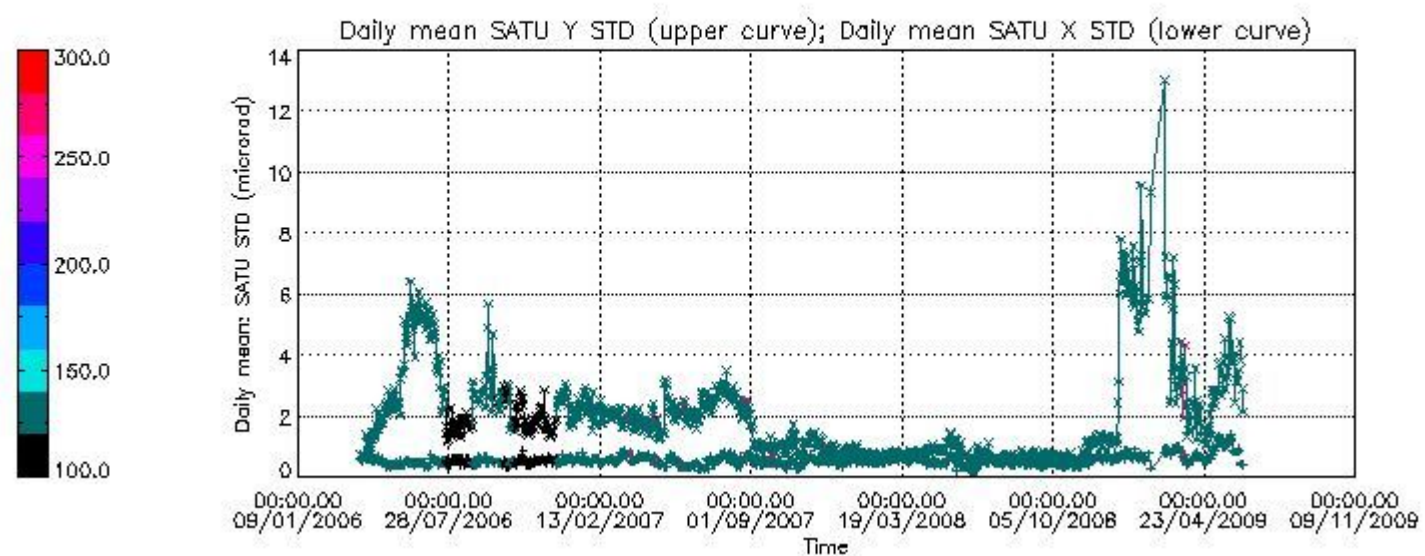
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

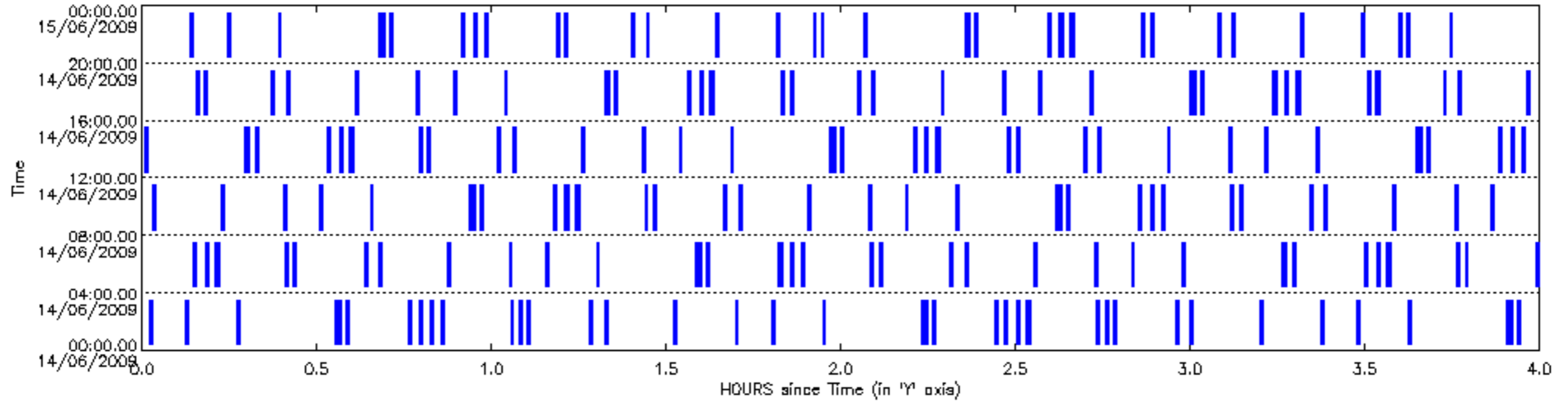
Lower curve: STD of SATU X axis

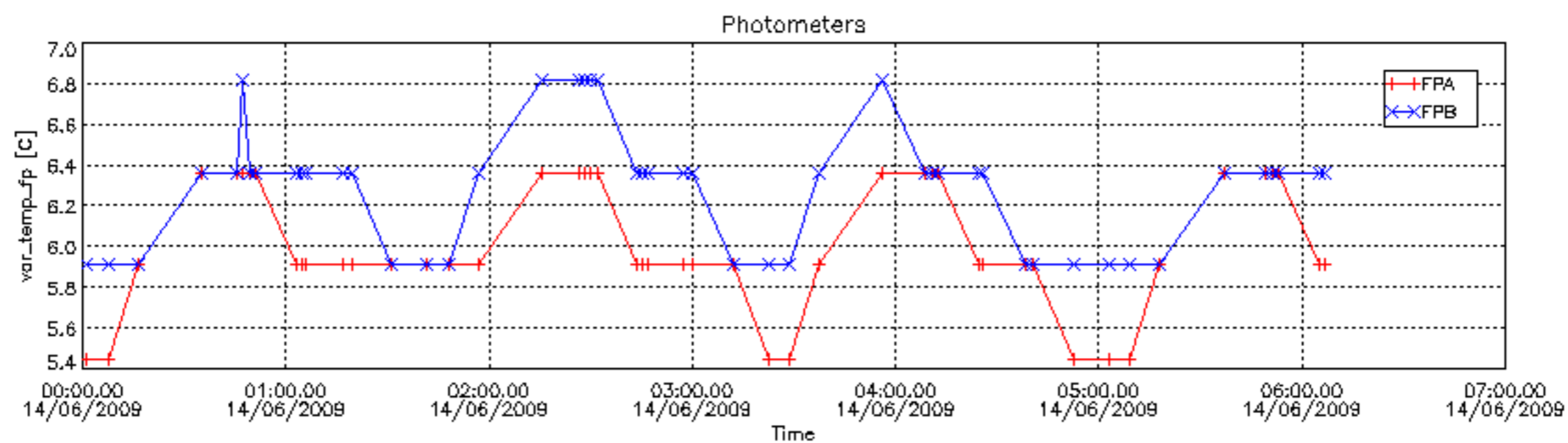
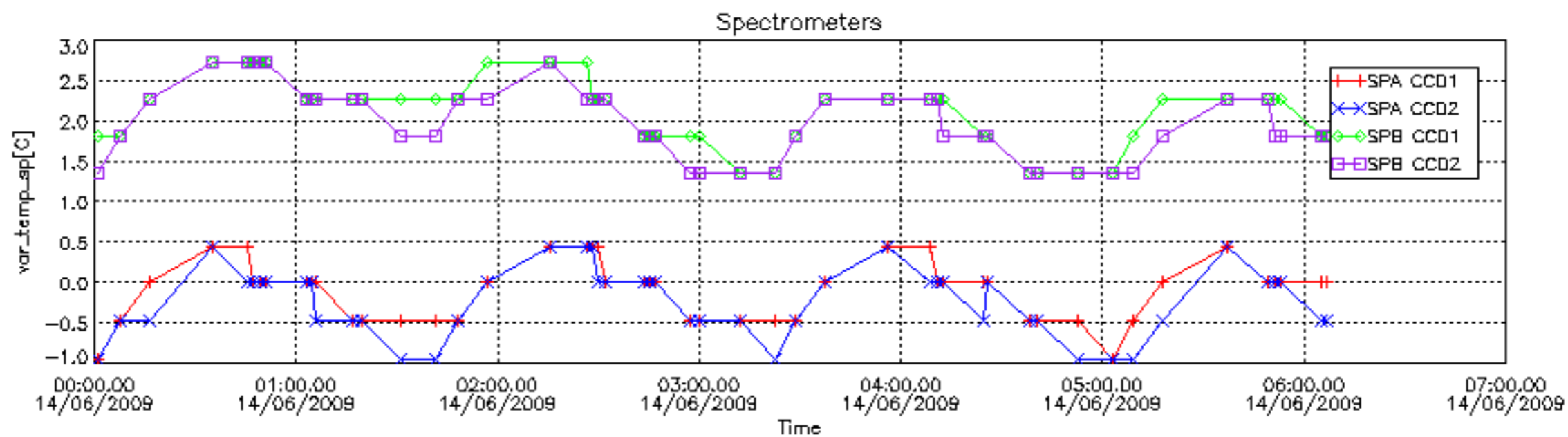


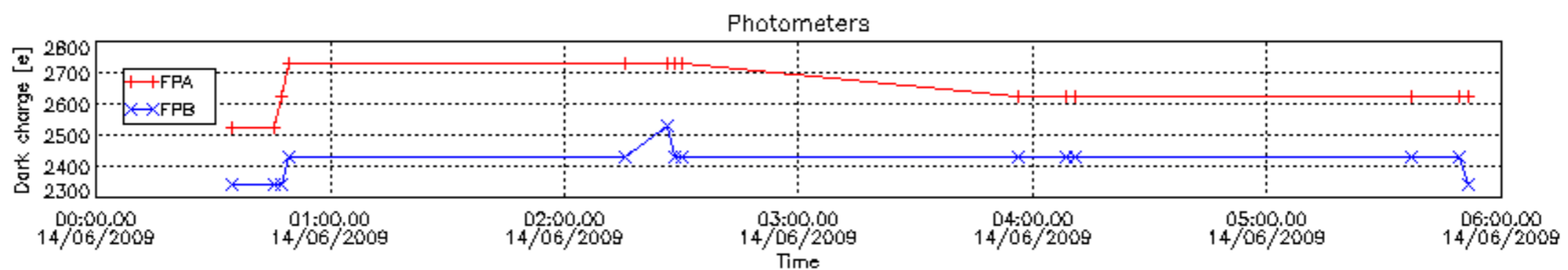
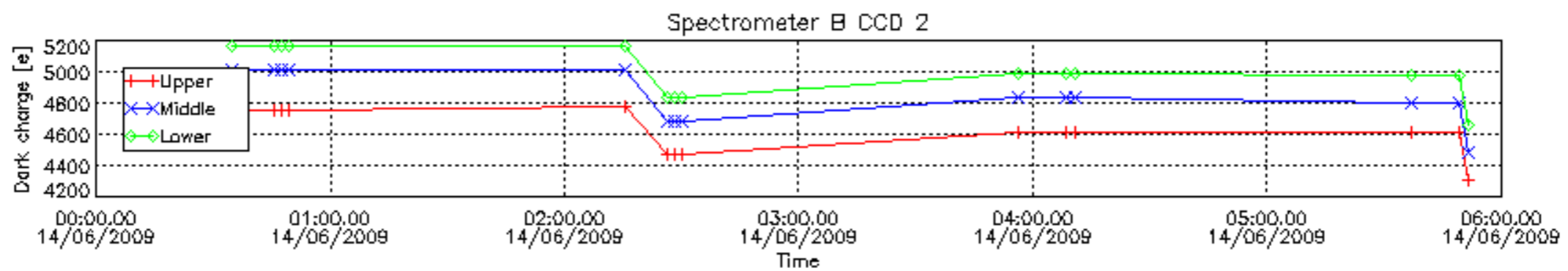
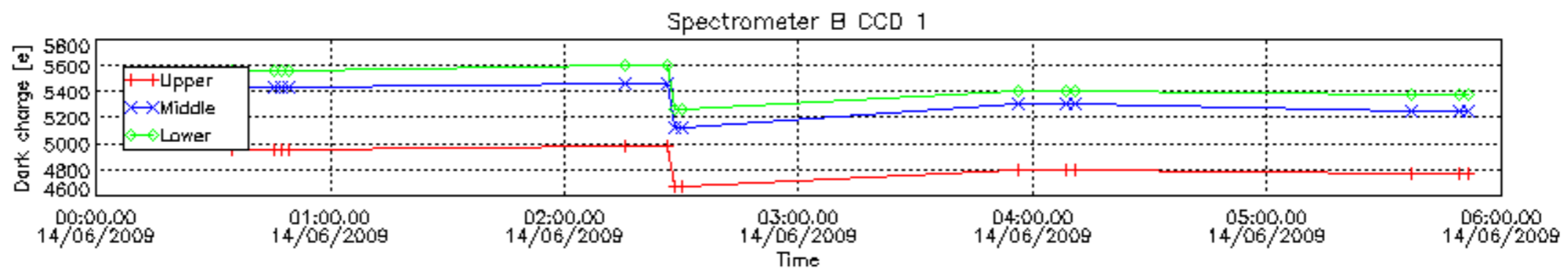
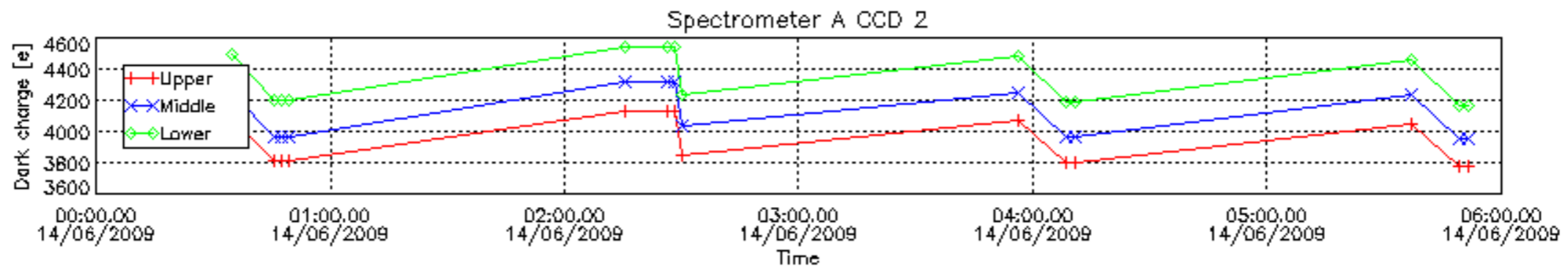
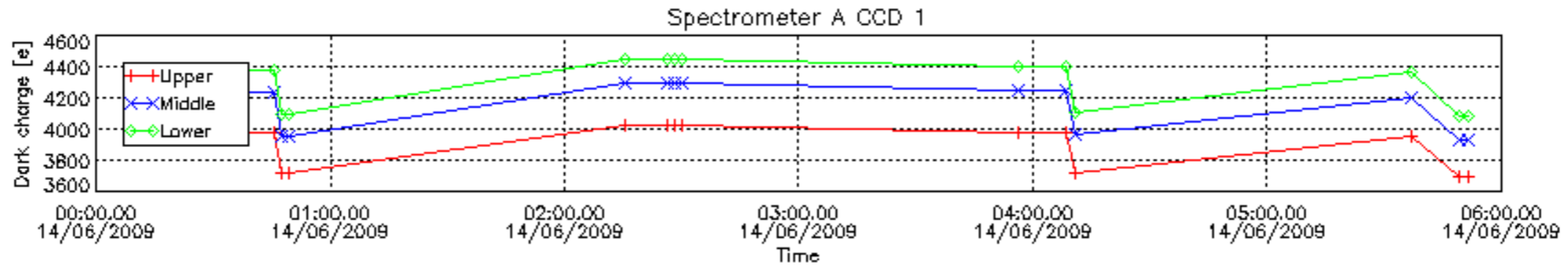
### 8. Auxiliary Data Files used for the production reported in section 2.4

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	14-JUN-2009 00:01:14
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090608_084241_20090606_000000_20100101_000000	1	14-JUN-2009 00:01:14
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	14-JUN-2009 00:01:14
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	14-JUN-2009 00:01:14
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	14-JUN-2009 00:01:14
ECMWF_FILE	AUX_ECF_AXNECM20090613_064113_20090613_210000_20090614_090000	1	14-JUN-2009 00:01:14
ECMWF_FILE	AUX_ECF_AXNECM20090613_184112_20090614_030000_20090614_150000	30	14-JUN-2009 03:28:42
OPTIONAL_ECMWF_FILE	MISSING	1	14-JUN-2009 00:01:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090613_210141_000060572079_00472_38101_8146.N1	1	14-JUN-2009 00:01:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090613_224757_000057382079_00473_38102_8147.N1	4	14-JUN-2009 00:35:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090614_002854_000054192079_00474_38103_8148.N1	18	14-JUN-2009 02:15:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090614_020432_000044632079_00475_38104_8149.N1	30	14-JUN-2009 03:28:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090614_032414_000057382079_00476_38105_8150.N1	42	14-JUN-2009 05:09:17

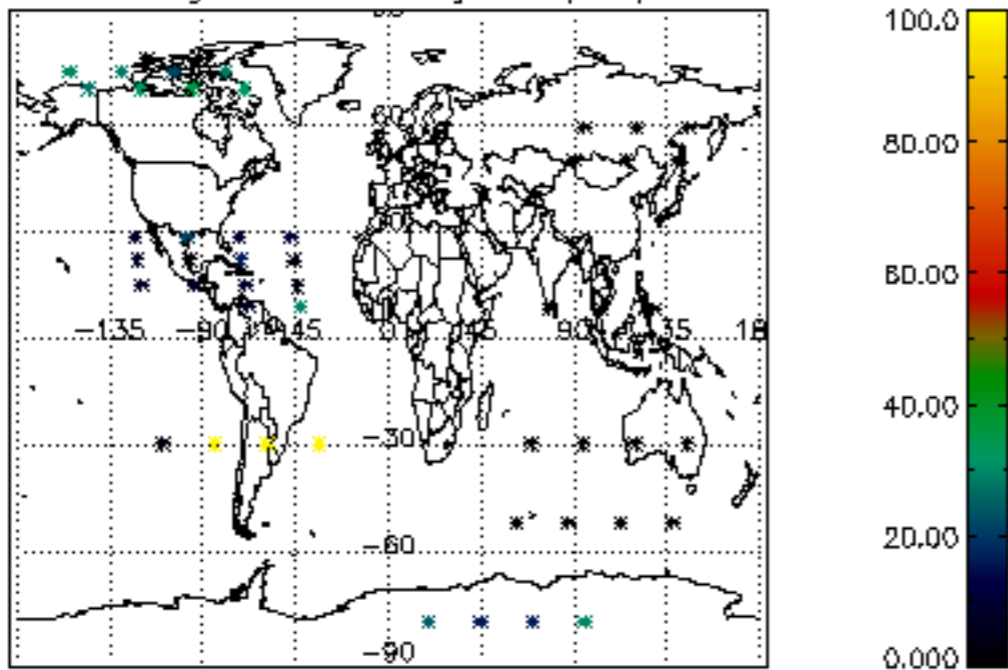




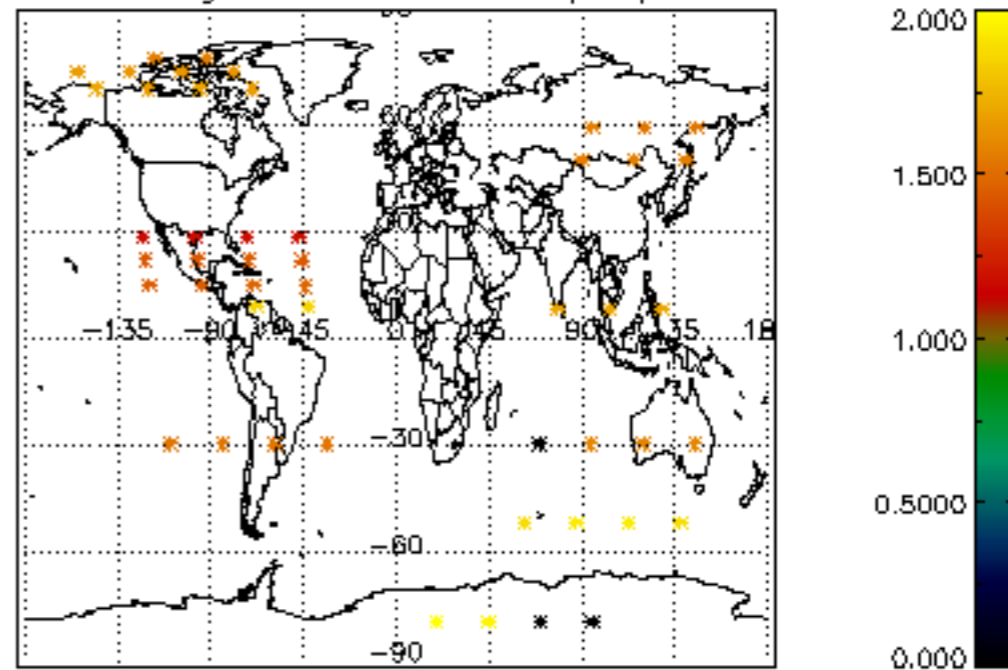




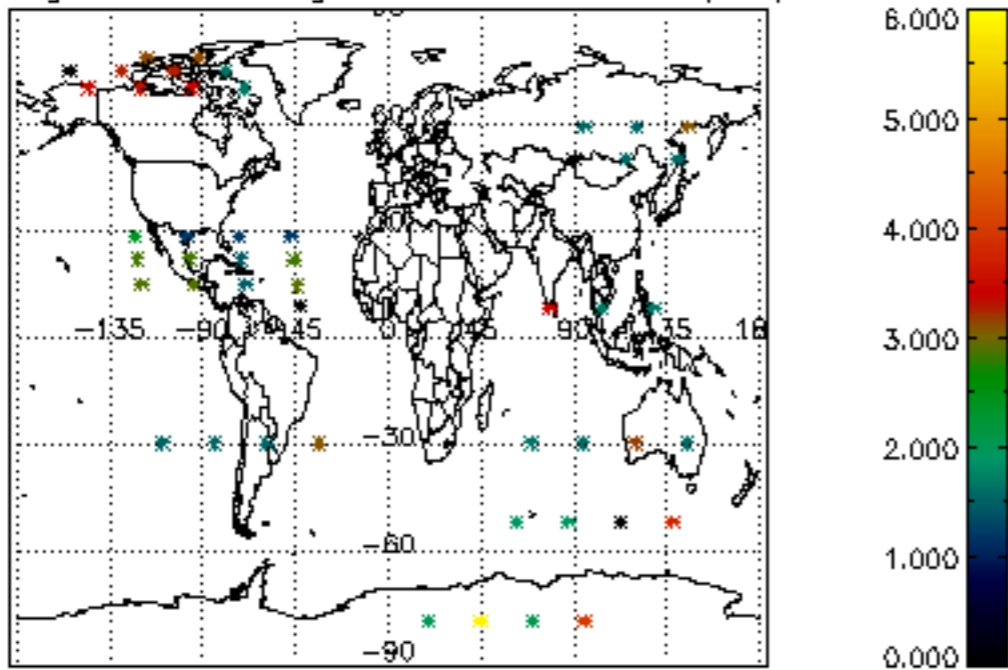
Percentage of cosmic ray hits per profile



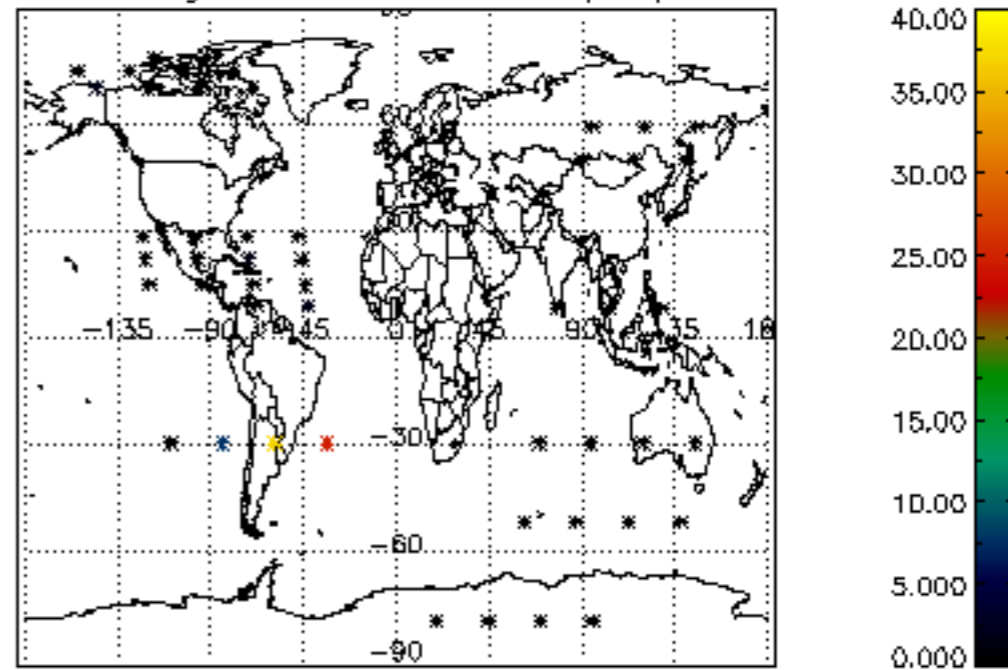
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

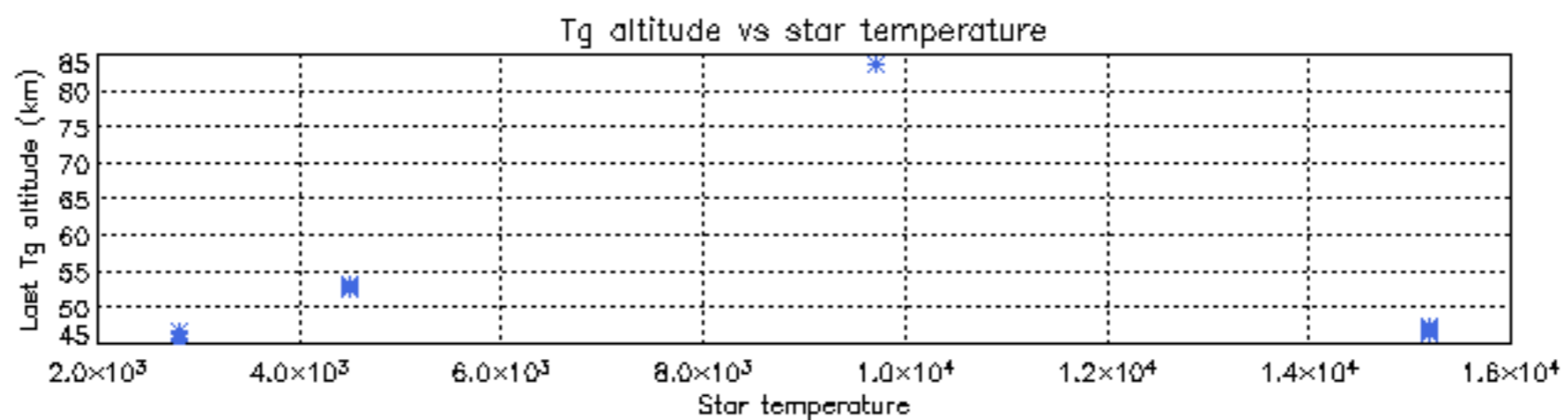
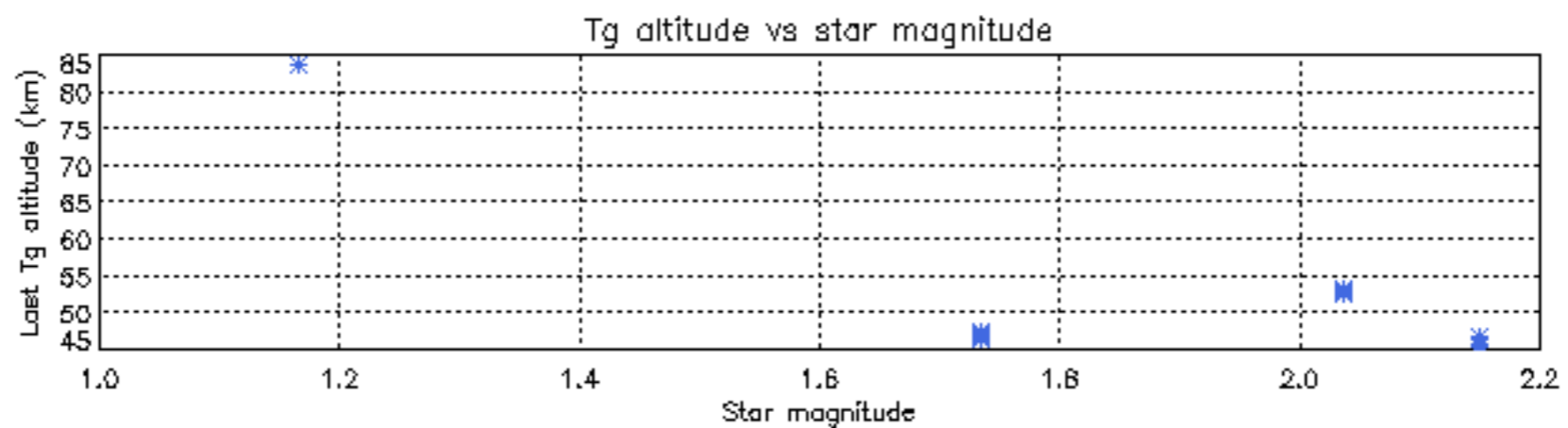
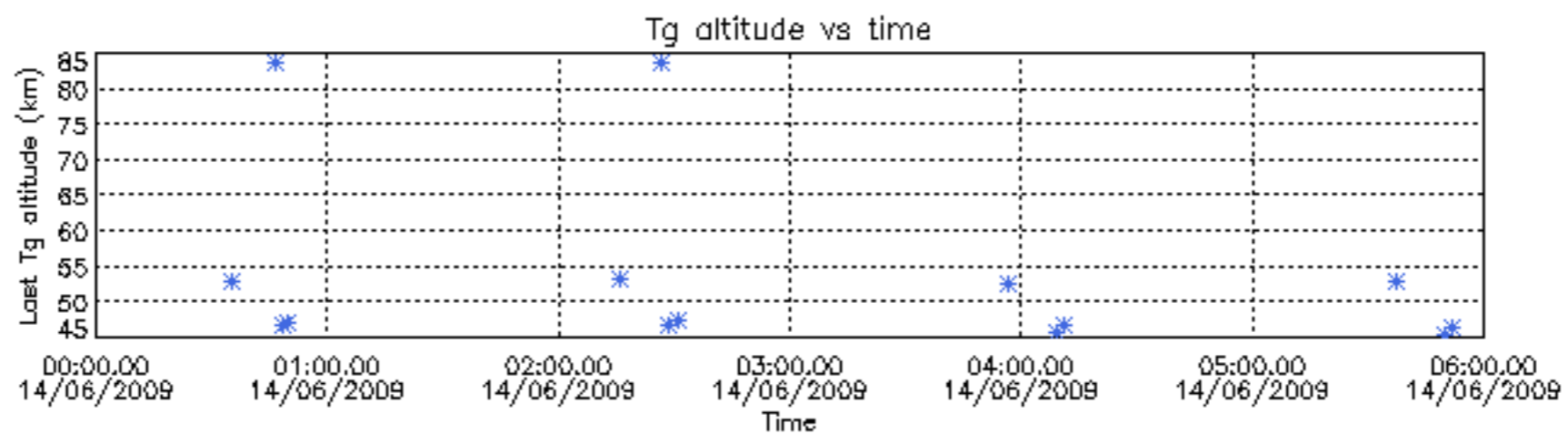


Percentage of saturation errors per profile

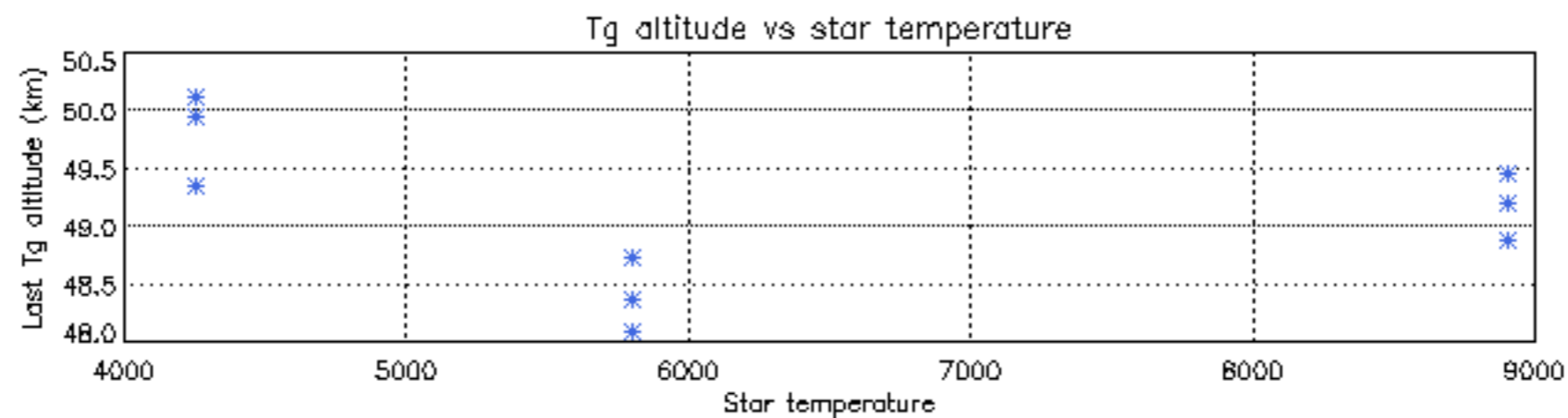
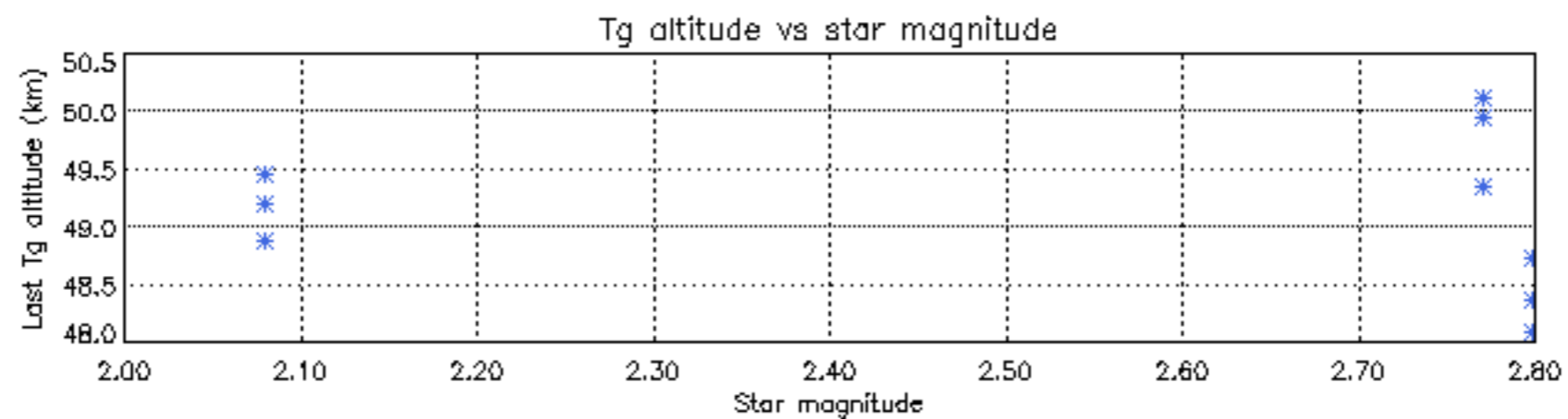
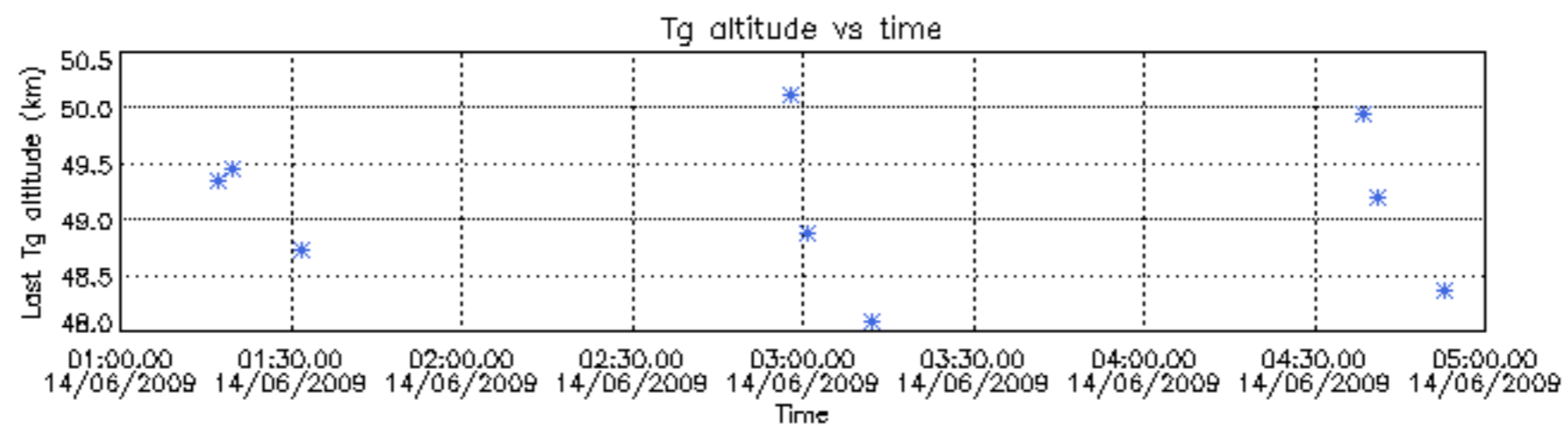


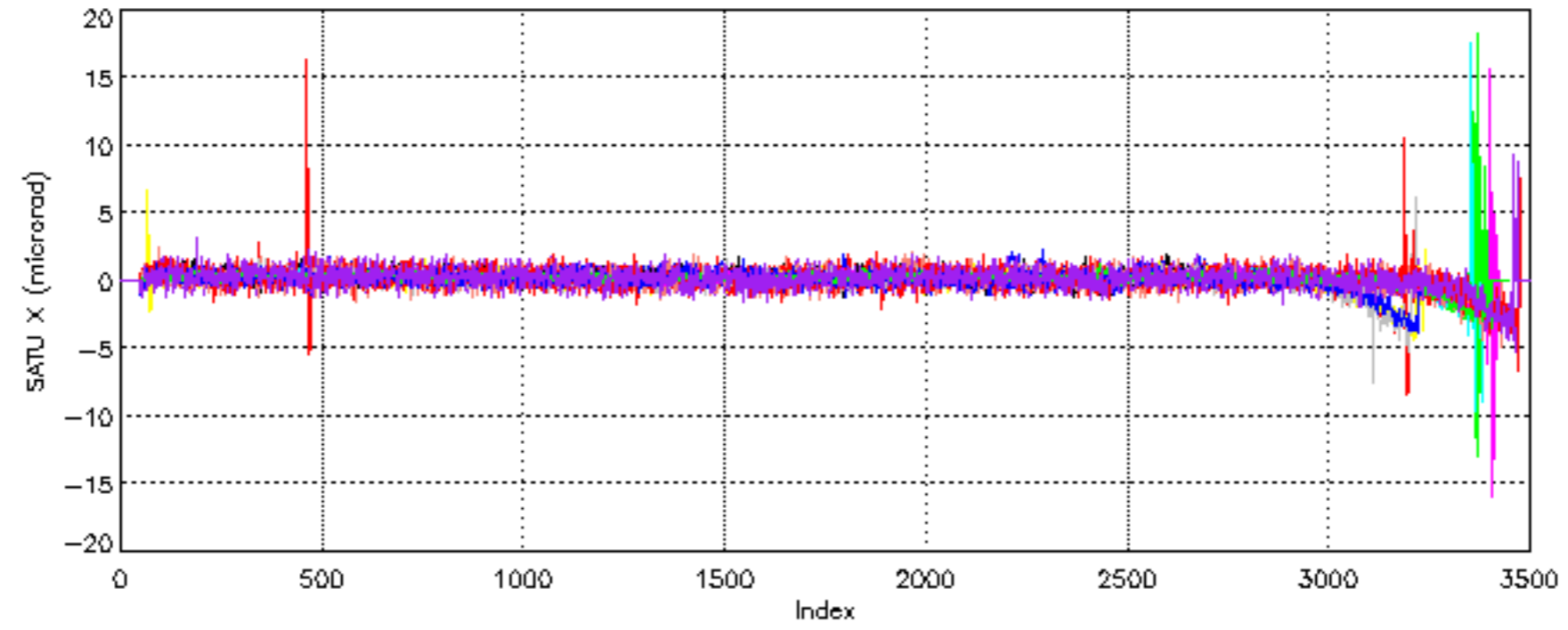


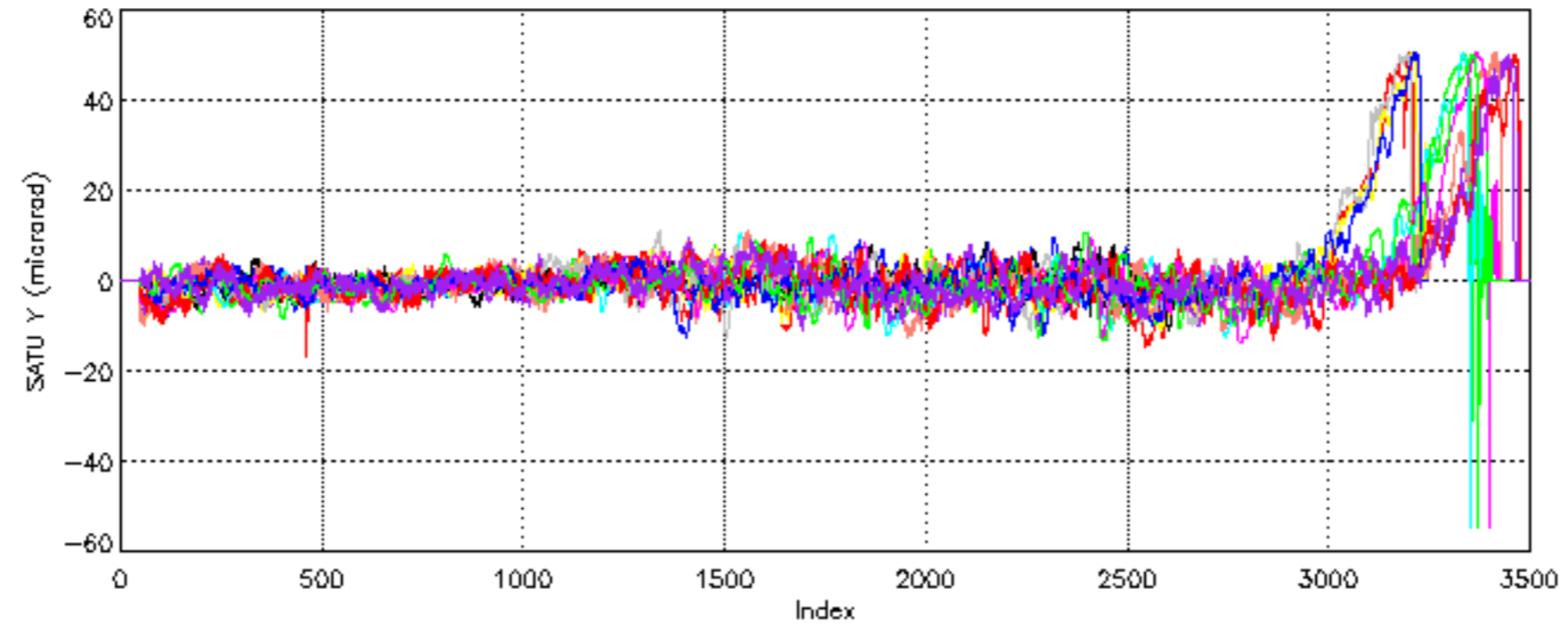
Tangent altitude at which the star is lost

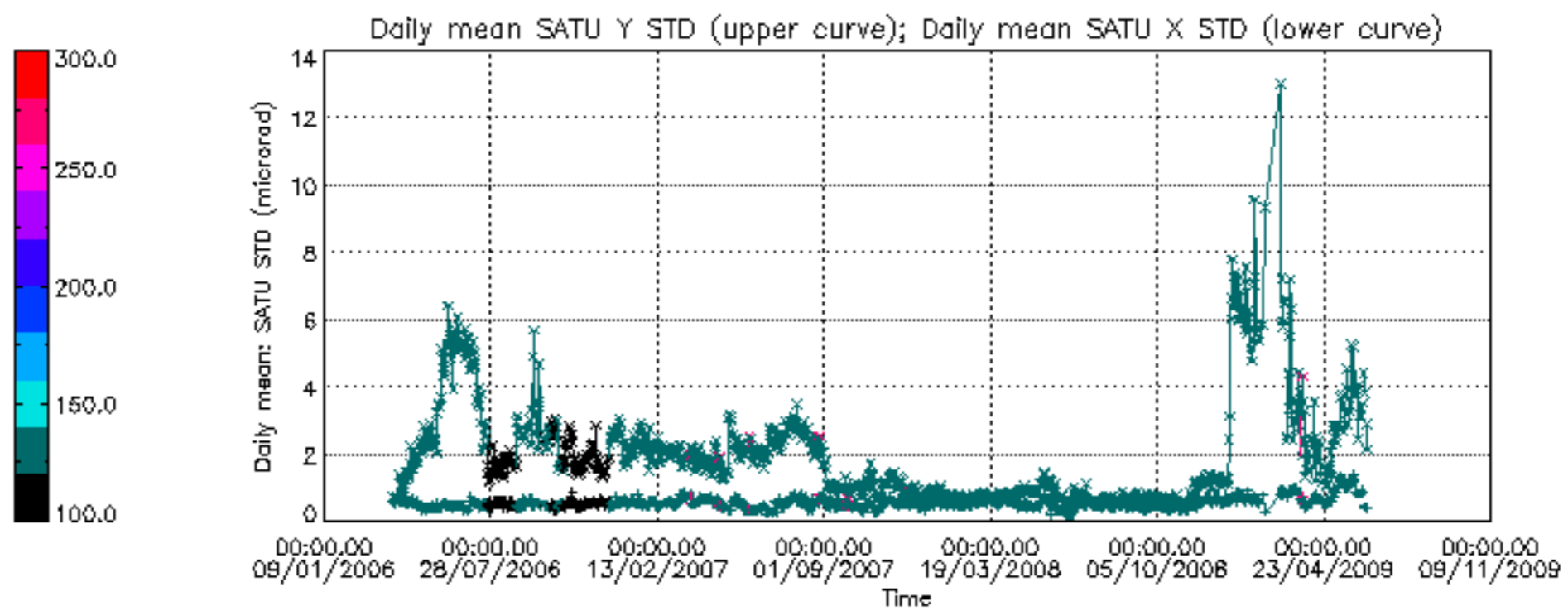


Tangent altitude at which the star is lost









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2; 190.7; 01-JUN-2009 00:55:07; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;37918
3; 1105.6; 01-JUN-2009 01:10:22; Dark ; 35.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 71; 0;37918
4; 1207.7; 01-JUN-2009 01:12:04; Dark ; 37.0; 116; 19Del Sgr ; 2.70; 4100;occ; 74; 0;37918
5; 1591.4; 01-JUN-2009 01:18:28; Bright; 32.0; 86; 35Eta Oph ; 2.43; 10200;occ; 64; 0;37918
6; 1702.8; 01-JUN-2009 01:20:19; Bright; 29.5; 98; 13Zet Oph ; 2.57; 30000;occ; 59; 0;37918
7; 2322.3; 01-JUN-2009 01:30:39; Bright; 32.0; 127; 27Bet Her ; 2.78; 4700;occ; 64; 0;37918
8; 2528.2; 01-JUN-2009 01:34:05; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;37918
9; 2976.6; 01-JUN-2009 01:41:33; Bright; 33.5; 130; 23Bet Dra ; 2.80; 5800;occ; 67; 0;37918
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11; 3933.5; 01-JUN-2009 01:57:30; Bright; 25.0; 74; 11Bet Cas ; 2.27; 6600;occ; 50; 0;37918
12; 4556.4; 01-JUN-2009 02:07:53; Dark ; 27.5; 58; 21Alp And ; 2.07; 11000;occ; 55; 0;37918
13; 4853.3; 01-JUN-2009 02:12:50; Dark ; 28.5; 140; 88Gam Peg ; 2.83; 26000;occ; 57; 0;37918
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4; 1106.4; 01-JUN-2009 02:50:59; Dark ; 35.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 70; 0;37919
5; 1208.2; 01-JUN-2009 02:52:40; Dark ; 37.0; 116; 19Del Sgr ; 2.70; 4100;occ; 74; 0;37919
6; 1591.1; 01-JUN-2009 02:59:03; Bright; 32.0; 86; 35Eta Oph ; 2.43; 10200;occ; 64; 0;37919
7; 1702.6; 01-JUN-2009 03:00:55; Bright; 30.0; 98; 13Zet Oph ; 2.57; 30000;occ; 60; 0;37919
8; 2322.2; 01-JUN-2009 03:11:14; Bright; 32.0; 127; 27Bet Her ; 2.78; 4700;occ; 64; 0;37919
9; 2528.0; 01-JUN-2009 03:14:40; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;37919
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11; 1702.9; 01-JUN-2009 04:41:31; Bright; 29.5; 98; 13Zet Oph ; 2.57; 30000;occ; 59; 0;37920
12; 2321.8; 01-JUN-2009 04:51:50; Bright; 32.0; 127; 27Bet Her ; 2.78; 4700;occ; 64; 0;37920
13; 2527.1; 01-JUN-2009 04:55:15; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;37920
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9; 1209.3; 01-JUN-2009 06:13:54; Dark ; 36.5; 116; 19Del Sgr ; 2.70; 4100;occ; 73; 0;37921
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3; 1592.2; 01-JUN-2009 19:45:04; Bright; 31.5; 86; 35Eta Oph ; 2.43; 10200;occ; 63; 0;37929
4; 2318.4; 01-JUN-2009 19:57:10; Bright; 31.5; 127; 27Bet Her ; 2.78; 4700;occ; 63; 0;37929
5; 2522.8; 01-JUN-2009 20:00:35; Bright; 32.5; 133; 40Zet Her ; 2.81; 6000;occ; 65; 0;37929
6; 2969.6; 01-JUN-2009 20:08:01; Bright; 33.0; 130; 23Bet Dra ; 2.80; 5800;occ; 66; 0;37929
7; 3621.8; 01-JUN-2009 20:18:54; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;37929
8; 3931.2; 01-JUN-2009 20:24:03; Bright; 25.0; 74; 11Bet Cas ; 2.27; 6600;occ; 50; 0;37929
9; 4558.5; 01-JUN-2009 20:34:30; Dark ; 28.0; 58; 21Alp And ; 2.07; 11000;occ; 56; 0;37929
10; 4859.1; 01-JUN-2009 20:39:31; Dark ; 29.0; 140; 88Gam Peg ; 2.83; 26000;occ; 58; 0;37929
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 5; 1213.7; 01-JUN-2009 21:19:21; Dark ; 36.0; 116; 19Del Sgr ; 2.70; 4100;occ; 72; 0;37930  
 6; 1592.2; 01-JUN-2009 21:25:40; Bright; 31.5; 86; 35Eta Oph ; 2.43; 10200;occ; 63; 0;37930  
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 8; 2522.4; 01-JUN-2009 21:41:10; Bright; 32.5; 133; 40Zet Her ; 2.81; 6000;occ; 65; 0;37930  
 9; 2968.9; 01-JUN-2009 21:48:37; Bright; 33.0; 130; 23Bet Dra ; 2.80; 5800;occ; 66; 0;37930  
 10; 3621.1; 01-JUN-2009 21:59:29; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;37930  
 11; 3931.0; 01-JUN-2009 22:04:39; Bright; 25.0; 74; 11Bet Cas ; 2.27; 6600;occ; 50; 0;37930  
 12; 4558.7; 01-JUN-2009 22:15:06; Dark ; 28.0; 58; 21Alp And ; 2.07; 11000;occ; 56; 0;37930  
 13; 4859.6; 01-JUN-2009 22:20:07; Dark ; 29.5; 140; 88Gam Peg ; 2.83; 26000;occ; 59; 0;37930  
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 9; 1209.8; 01-JUN-2009 07:54:30; Dark ; 36.5; 116; 19Del Sgr ; 2.70; 4100;occ; 73; 0;37922  
 10; 1591.4; 01-JUN-2009 08:00:52; Bright; 32.0; 86; 35Eta Oph ; 2.43; 10200;occ; 64; 0;37922  
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 3; 2526.3; 01-JUN-2009 08:16:27; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;37922  
 4; 2973.9; 01-JUN-2009 08:23:54; Bright; 33.0; 130; 23Bet Dra ; 2.80; 5800;occ; 66; 0;37922  
 5; 3626.1; 01-JUN-2009 08:34:46; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;37922  
 6; 3932.6; 01-JUN-2009 08:39:53; Bright; 25.0; 74; 11Bet Cas ; 2.27; 6600;occ; 50; 0;37922  
 7; 4557.1; 01-JUN-2009 08:50:17; Dark ; 28.0; 58; 21Alp And ; 2.07; 11000;occ; 56; 0;37922  
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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
8; 3925.7; 03-JUN-2009 19:20:44; Bright; 24.5; 74; 11Bet Cas ; 2.27; 6600;occ; 49; 0;37957
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6; 2943.7; 04-JUN-2009 20:13:21; Bright; 31.5; 130; 23Bet Dra ; 2.80; 5800;occ; 63; 0;37972
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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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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8; 6106.8; 10-JUN-2009 14:35:10; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;38054
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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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4; 2185.6; 10-JUN-2009 18:31:37; Bright; 34.0; 59; 55Alp Oph ; 2.08; 8900;occ; 68; 0;38057
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5; 208.9; 11-JUN-2009 04:02:15; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38063
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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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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8; 4407.5; 11-JUN-2009 20:17:38; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38072
9; 5395.8; 11-JUN-2009 20:34:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38072
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7; 1183.8; 12-JUN-2009 02:06:17; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38076
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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
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6; 222.2; 12-JUN-2009 03:30:52; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38077
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8; 440.1; 12-JUN-2009 03:34:30; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38077
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11; 2021.9; 12-JUN-2009 04:00:51; Bright; 33.5; 126; 60Bet Oph ; 2.77; 4250;occ; 67; 0;38077
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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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8; 441.6; 12-JUN-2009 05:15:07; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38078
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11; 2021.7; 12-JUN-2009 05:41:27; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;38078
12; 2176.8; 12-JUN-2009 05:44:02; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38078
13; 2889.6; 12-JUN-2009 05:55:55; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38078
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3; 2018.6; 12-JUN-2009 20:46:48; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;38087
4; 2173.2; 12-JUN-2009 20:49:22; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38087
5; 2885.6; 12-JUN-2009 21:01:15; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38087
6; 3521.0; 12-JUN-2009 21:11:50; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38087
7; 3891.8; 12-JUN-2009 21:18:01; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38087
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3; 123.2; 12-JUN-2009 21:55:48; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;38088
4; 233.1; 12-JUN-2009 21:57:38; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38088
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6; 455.5; 12-JUN-2009 22:01:20; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38088
7; 1188.9; 12-JUN-2009 22:13:34; Dark ; 30.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 60; 0;38088
8; 1308.3; 12-JUN-2009 22:15:33; Dark ; 35.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 71; 0;38088
9; 2018.4; 12-JUN-2009 22:27:23; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;38088
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11; 2885.0; 12-JUN-2009 22:41:50; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38088
12; 3520.3; 12-JUN-2009 22:52:25; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38088
13; 3891.5; 12-JUN-2009 22:58:36; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 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
4; 444.3; 12-JUN-2009 08:36:22; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38080
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
 5; 3893.9; 12-JUN-2009 09:33:51; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38080
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 5; 445.6; 12-JUN-2009 10:16:59; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38081
 6; 1186.1; 12-JUN-2009 10:29:19; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38081
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13; 3891.1; 13-JUN-2009 00:39:12; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38089
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13; 7222.4; 12-JUN-2009 12:09:56; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38081
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5; 3889.4; 13-JUN-2009 10:42:46; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38095
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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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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 14; 7275.9; 16-JUN-2009 10:04:21; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38137  
 15; 7363.4; 16-JUN-2009 10:05:49; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38137  
 16; 7469.8; 16-JUN-2009 10:07:35; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38137

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 3; 2794.0; 16-JUN-2009 10:30:15; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38138  
 4; 2893.3; 16-JUN-2009 10:31:55; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38138  
 5; 3486.7; 16-JUN-2009 10:41:48; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38138  
 6; 3875.2; 16-JUN-2009 10:48:17; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38138  
 7; 3958.9; 16-JUN-2009 10:49:40; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38138  
 8; 4412.0; 16-JUN-2009 10:57:13; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38138  
 9; 5002.7; 16-JUN-2009 11:07:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38138  
 10; 5572.7; 16-JUN-2009 11:16:34; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38138  
 11; 6318.5; 16-JUN-2009 11:29:00; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38138  
 12; 6441.6; 16-JUN-2009 11:31:03; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38138  
 13; 6560.0; 16-JUN-2009 11:33:01; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38138  
 14; 7276.0; 16-JUN-2009 11:44:57; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38138  
 15; 7363.6; 16-JUN-2009 11:46:25; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38138  
 16; 7470.0; 16-JUN-2009 11:48:11; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38138

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 2; 2155.6; 16-JUN-2009 12:00:13; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38139  
 3; 2793.0; 16-JUN-2009 12:10:50; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38139  
 4; 2892.8; 16-JUN-2009 12:12:30; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38139  
 5; 3486.1; 16-JUN-2009 12:22:23; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38139  
 6; 3874.8; 16-JUN-2009 12:28:52; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38139  
 7; 3958.5; 16-JUN-2009 12:30:16; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38139  
 8; 4412.1; 16-JUN-2009 12:37:49; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38139  
 9; 5003.2; 16-JUN-2009 12:47:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38139  
 10; 5574.0; 16-JUN-2009 12:57:11; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38139  
 11; 6319.6; 16-JUN-2009 13:09:37; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38139  
 12; 6442.7; 16-JUN-2009 13:11:40; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38139  
 13; 6561.6; 16-JUN-2009 13:13:39; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38139  
 14; 7276.7; 16-JUN-2009 13:25:34; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38139  
 15; 7364.1; 16-JUN-2009 13:27:01; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38139  
 16; 7470.4; 16-JUN-2009 13:28:48; Bright; 19.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 39; 0;38139

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 3; 2155.4; 16-JUN-2009 13:40:49; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38140  
 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

6; 3485.6; 16-JUN-2009 14:02:59; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38140  
 7; 3874.7; 16-JUN-2009 14:09:28; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38140  
 8; 3958.4; 16-JUN-2009 14:10:52; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38140  
 9; 4412.1; 16-JUN-2009 14:18:25; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38140  
 10; 5003.8; 16-JUN-2009 14:28:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38140  
 11; 5575.1; 16-JUN-2009 14:37:48; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38140  
 12; 6320.5; 16-JUN-2009 14:50:14; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38140  
 13; 6443.9; 16-JUN-2009 14:52:17; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38140  
 14; 6563.0; 16-JUN-2009 14:54:16; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38140  
 15; 7277.2; 16-JUN-2009 15:06:10; Dark ; 20.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 41; 0;38140

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 2; 1328.4; 16-JUN-2009 15:07:37; Dark ; 34.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 68; 0;38141  
 3; 1435.0; 16-JUN-2009 15:09:24; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38141  
 4; 2005.2; 16-JUN-2009 15:18:54; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38141  
 5; 2155.0; 16-JUN-2009 15:21:24; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38141  
 6; 2791.3; 16-JUN-2009 15:32:00; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38141  
 7; 2891.9; 16-JUN-2009 15:33:41; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38141  
 8; 3484.9; 16-JUN-2009 15:43:34; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38141  
 9; 3874.3; 16-JUN-2009 15:50:03; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38141  
 10; 3958.3; 16-JUN-2009 15:51:27; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38141  
 11; 4412.3; 16-JUN-2009 15:59:01; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38141  
 12; 5004.4; 16-JUN-2009 16:08:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38141  
 13; 5576.3; 16-JUN-2009 16:18:25; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38141  
 14; 6321.7; 16-JUN-2009 16:30:51; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38141  
 15; 6444.9; 16-JUN-2009 16:32:54; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38141  
 16; 6564.2; 16-JUN-2009 16:34:53; Dark ; 41.0; 172; Gam Gru ; 3.00; 13100;occ; 82; 0;38141

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 2; 1329.0; 16-JUN-2009 16:48:14; Dark ; 33.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 66; 0;38142  
 3; 1435.1; 16-JUN-2009 16:50:00; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;38142  
 4; 2004.8; 16-JUN-2009 16:59:30; Bright; 30.5; 126; 60Bet Oph ; 2.77; 4250;occ; 61; 0;38142  
 5; 2154.8; 16-JUN-2009 17:02:00; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38142  
 6; 2790.2; 16-JUN-2009 17:12:35; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38142  
 7; 2891.5; 16-JUN-2009 17:14:17; Bright; 30.0; 69; 33Gam Dra ; 2.23; 3800;occ; 60; 0;38142  
 8; 3484.2; 16-JUN-2009 17:24:09; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38142  
 9; 3874.0; 16-JUN-2009 17:30:39; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38142  
 10; 3958.0; 16-JUN-2009 17:32:03; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38142  
 11; 4412.2; 16-JUN-2009 17:39:37; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38142  
 12; 5470.4; 16-JUN-2009 17:57:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38142  
 13; 5577.4; 16-JUN-2009 17:59:02; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38142  
 14; 6322.7; 16-JUN-2009 18:11:28; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38142  
 15; 6445.9; 16-JUN-2009 18:13:31; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38142  
 16; 6565.6; 16-JUN-2009 18:15:31; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;38142

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 2; 1329.2; 16-JUN-2009 18:28:50; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38143  
 3; 1435.4; 16-JUN-2009 18:30:36; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38143  
 4; 2004.6; 16-JUN-2009 18:40:06; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38143  
 5; 2154.7; 16-JUN-2009 18:42:36; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38143  
 6; 2789.4; 16-JUN-2009 18:53:10; Bright; 37.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 75; 0;38143  
 7; 2890.9; 16-JUN-2009 18:54:52; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38143  
 8; 3483.5; 16-JUN-2009 19:04:45; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38143  
 9; 3873.6; 16-JUN-2009 19:11:15; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38143  
 10; 3957.9; 16-JUN-2009 19:12:39; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38143  
 11; 4412.3; 16-JUN-2009 19:20:13; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38143  
 12; 5471.5; 16-JUN-2009 19:37:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38143  
 13; 5578.4; 16-JUN-2009 19:39:39; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;38143  
 14; 6323.4; 16-JUN-2009 19:52:04; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38143  
 15; 6446.7; 16-JUN-2009 19:54:08; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38143  
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 3; 290.3; 17-JUN-2009 00:53:55; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38147  
 4; 413.6; 17-JUN-2009 00:55:58; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38147  
 5; 534.5; 17-JUN-2009 00:57:59; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38147  
 6; 1243.9; 17-JUN-2009 01:09:49; Dark ; 32.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 65; 0;38147

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8; 1436.8; 17-JUN-2009 01:13:01; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;38147
9; 2003.4; 17-JUN-2009 01:22:28; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38147
10; 2153.3; 17-JUN-2009 01:24:58; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38147
11; 2785.7; 17-JUN-2009 01:35:30; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38147
12; 2888.9; 17-JUN-2009 01:37:14; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38147
13; 3480.7; 17-JUN-2009 01:47:05; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38147
14; 3872.2; 17-JUN-2009 01:53:37; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38147
15; 3956.6; 17-JUN-2009 01:55:01; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38147
16; 4412.5; 17-JUN-2009 02:02:37; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38147
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3; 291.3; 17-JUN-2009 02:34:32; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38148
4; 414.4; 17-JUN-2009 02:36:35; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38148
5; 535.8; 17-JUN-2009 02:38:36; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38148
6; 1244.2; 17-JUN-2009 02:50:25; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38148
7; 1330.9; 17-JUN-2009 02:51:51; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38148
8; 1436.8; 17-JUN-2009 02:53:37; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;38148
9; 2003.4; 17-JUN-2009 03:03:04; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38148
10; 2153.2; 17-JUN-2009 03:05:34; Bright; 30.5; 59; 55Alp Oph ; 2.08; 8900;occ; 61; 0;38148
11; 2784.9; 17-JUN-2009 03:16:05; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38148
12; 2888.4; 17-JUN-2009 03:17:49; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38148
13; 3480.0; 17-JUN-2009 03:27:40; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38148
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3; -1623.5; 17-JUN-2009 03:43:13; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38148
4; -1348.5; 17-JUN-2009 03:47:48; Dark ; 23.5; 105; 6Bet Ari ; 2.64; 8900;occ; 47; 0;38148
5; -558.5; 17-JUN-2009 04:00:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38148
6; -452.4; 17-JUN-2009 04:02:44; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;38148
7; 292.2; 17-JUN-2009 04:15:09; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38149
8; 415.4; 17-JUN-2009 04:17:12; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38149
9; 537.2; 17-JUN-2009 04:19:14; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38149
10; 1244.8; 17-JUN-2009 04:31:01; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38149
11; 1331.4; 17-JUN-2009 04:32:28; Dark ; 33.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 66; 0;38149
12; 1436.9; 17-JUN-2009 04:34:13; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38149
13; 2003.1; 17-JUN-2009 04:43:40; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38149
14; 2152.8; 17-JUN-2009 04:46:09; Bright; 30.5; 59; 55Alp Oph ; 2.08; 8900;occ; 61; 0;38149
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16; 2888.0; 17-JUN-2009 04:58:24; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38149
17; 3479.4; 17-JUN-2009 05:08:16; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38149
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3; -1623.5; 17-JUN-2009 05:23:49; Dark ; 26.5; 53; 43Bet And ; 2.05; 3300;occ; 53; 0;38149
4; -1348.6; 17-JUN-2009 05:28:24; Dark ; 23.5; 105; 6Bet Ari ; 2.64; 8900;occ; 47; 0;38149
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7; 293.1; 17-JUN-2009 05:55:46; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38150
8; 416.5; 17-JUN-2009 05:57:49; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38150
9; 538.4; 17-JUN-2009 05:59:51; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38150
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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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 9; 2136.4; 22-JUN-2009 02:07:48; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38219
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5; 685.5; 22-JUN-2009 23:31:24; Dark ; 28.5; 45; Alp Pav ; 1.94; 26000;occ; 57; 0;38232  
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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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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
8; 2658.6; 30-JUN-2009 01:24:46; Bright; 43.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 86; 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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 5; 762.6; 30-JUN-2009 02:33:46; Dark ; 61.0; 172; Gam Gru ; 3.00; 13100;occ; 122; 0;38334
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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
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 8; 4266.9; 30-JUN-2009 21:58:45; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38345
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