

GOMOS Daily Report 11-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	14JUN2009 04:36:43
Data source version	GOMOS/5.00
Start time of products	11JUN2009 00:01:58
Stop time of products	11JUN2009 06:27:38
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

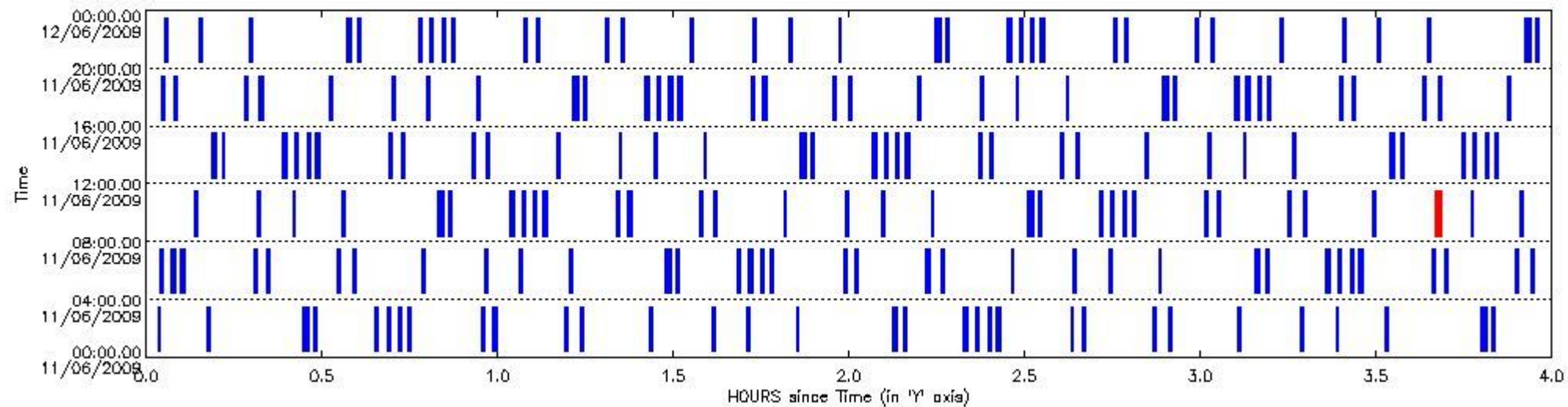
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



2.3 Summary of missing occultations (red segments in previous plot)

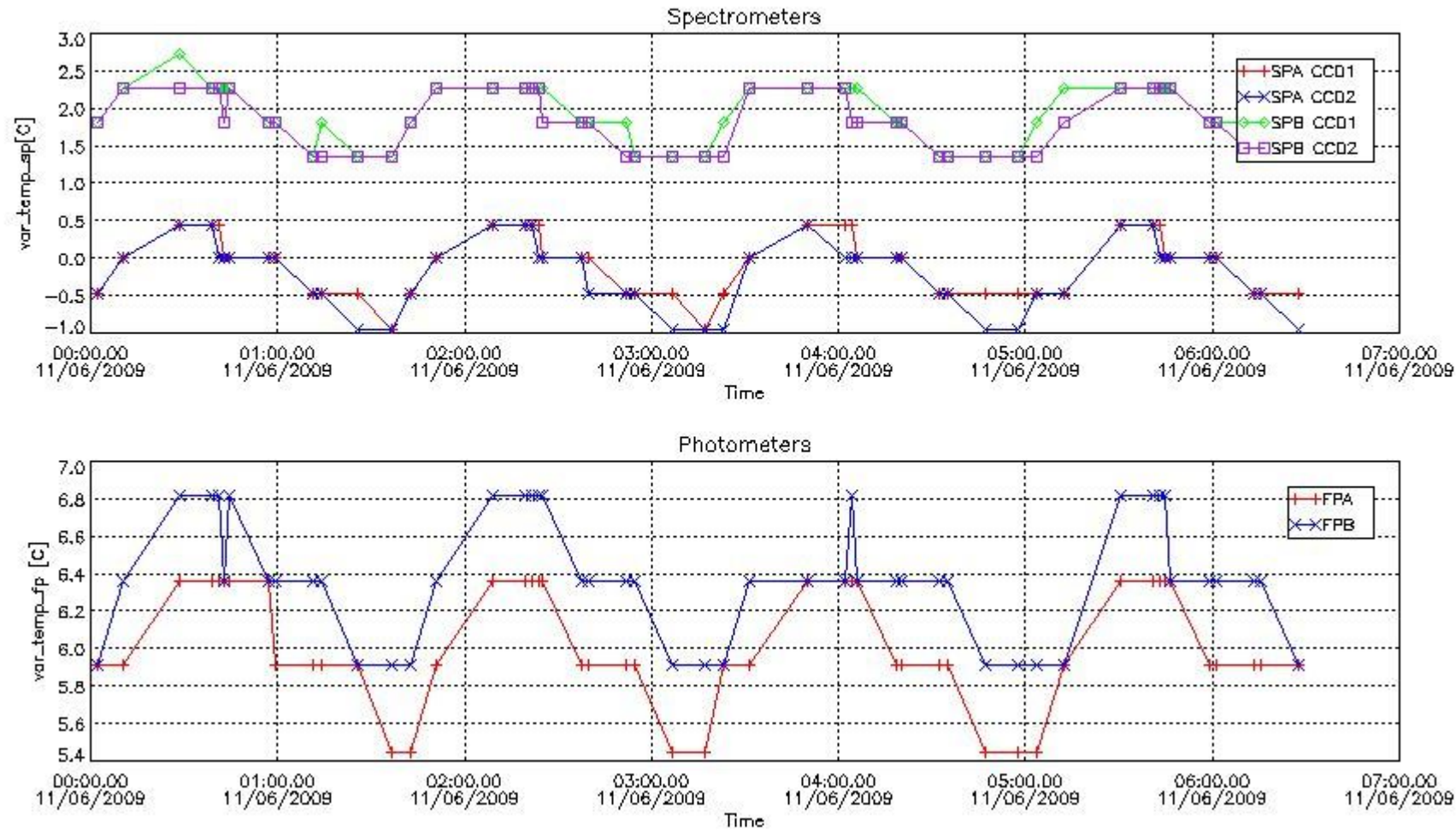
UTC start time	Star name	Star ID	Orbit
11-JUN-2009 11:40:03	5AlpCep	89	38067

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_1PNPDE20090611_000158_000000262079_00431_38060_4098.N1	11-JUN-2009 00:01:58	Twilight	26.000	74	11Bet Cas	2.2680	6600.0	52	38060	No
2	GOM_TRA_1PNPDE20090611_001025_000000252079_00431_38060_4099.N1	11-JUN-2009 00:10:25	Twilight	24.500	53	43Bet And	2.0480	3300.0	49	38060	No
3	GOM_TRA_1PNPDE20090611_002836_000000312079_00431_38060_4242.N1	11-JUN-2009 00:28:36	Dark	30.500	52	16Bet Cet	2.0370	4500.0	61	38060	No
4	GOM_TRA_1PNPDE20090611_003855_000000452079_00432_38061_4243.N1	11-JUN-2009 00:38:55	Dark	44.500	18	24Alp PsA	1.1660	9700.0	89	38061	No
5	GOM_TRA_1PNPDE20090611_004102_000000342079_00432_38061_4244.N1	11-JUN-2009 00:41:02	Dark	33.500	63	Bet Gru	2.1500	2800.0	67	38061	No
6	GOM_TRA_1PNPDE20090611_004303_000000342079_00432_38061_4245.N1	11-JUN-2009 00:43:03	Dark	34.000	31	Alp Gru	1.7340	15200.0	68	38061	No
7	GOM_TRA_1PNPDE20090611_004433_000000432079_00432_38061_4246.N1	11-JUN-2009 00:44:33	Straylight	42.500	172	Gam Gru	3.0030	13100.0	85	38061	No
8	GOM_TRA_1PNPDE20090611_005712_000000312079_00432_38061_4247.N1	11-JUN-2009 00:57:12	Twilight	31.000	38	20Eps Sgr	1.8360	11000.0	62	38061	No
9	GOM_TRA_1PNPDE20090611_005911_000000372079_00432_38061_4248.N1	11-JUN-2009 00:59:11	Twilight	36.500	57	34Sig Sgr	2.0660	26000.0	73	38061	No
10	GOM_TRA_1PNPDE20090611_011122_000000342079_00432_38061_4249.N1	11-JUN-2009 01:11:22	Bright	34.000	126	60Bet Oph	2.7700	4250.0	68	38061	No

11	GOM_TRA_1PNPDE20090611_011358_000000342079_00432_38061_4250.N1	11-JUN-2009 01:13:58	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	38061	No
12	GOM_TRA_1PNPDE20090611_012552_000000302079_00432_38061_4251.N1	11-JUN-2009 01:25:52	Bright	30.000	130	23Bet Dra	2.7990	5800.0	60	38061	No
13	GOM_TRA_1PNPDE20090611_013633_000000322079_00432_38061_4252.N1	11-JUN-2009 01:36:33	Twilight	31.500	89	5Alp Cep	2.4510	8000.0	63	38061	No
14	GOM_TRA_1PNPDE20090611_014234_000000262079_00432_38061_4253.N1	11-JUN-2009 01:42:34	Twilight	26.000	74	11Bet Cas	2.2680	6600.0	52	38061	No
15	GOM_TRA_1PNPDE20090611_015101_000000242079_00432_38061_4254.N1	11-JUN-2009 01:51:01	Twilight	23.500	53	43Bet And	2.0480	3300.0	47	38061	No
16	GOM_TRA_1PNPDE20090611_020913_000000312079_00432_38061_4377.N1	11-JUN-2009 02:09:13	Dark	31.000	52	16Bet Cet	2.0370	4500.0	62	38061	No
17	GOM_TRA_1PNPDE20090611_021932_000000452079_00433_38062_4378.N1	11-JUN-2009 02:19:32	Dark	44.500	18	24Alp PsA	1.1660	9700.0	89	38062	No
18	GOM_TRA_1PNPDE20090611_022138_000000342079_00433_38062_4379.N1	11-JUN-2009 02:21:38	Dark	34.000	63	Bet Gru	2.1500	2800.0	68	38062	No
19	GOM_TRA_1PNPDE20090611_022340_000000352079_00433_38062_4380.N1	11-JUN-2009 02:23:40	Dark	34.500	31	Alp Gru	1.7340	15200.	69	38062	No
20	GOM_TRA_1PNPDE20090611_022510_000000432079_00433_38062_4381.N1	11-JUN-2009 02:25:10	Straylight	42.500	172	Gam Gru	3.0030	13100.	85	38062	No
21	GOM_TRA_1PNPDE20090611_023749_000000312079_00433_38062_4382.N1	11-JUN-2009 02:37:49	Twilight	30.500	38	20Eps Sgr	1.8360	11000.	61	38062	No
22	GOM_TRA_1PNPDE20090611_023948_000000372079_00433_38062_4383.N1	11-JUN-2009 02:39:48	Twilight	36.500	57	34Sig Sgr	2.0660	26000.	73	38062	No
23	GOM_TRA_1PNPDE20090611_025157_000000342079_00433_38062_4384.N1	11-JUN-2009 02:51:57	Bright	34.000	126	60Bet Oph	2.7700	4250.0	68	38062	No
24	GOM_TRA_1PNPDE20090611_025434_000000332079_00433_38062_4385.N1	11-JUN-2009 02:54:34	Bright	33.000	59	55Alp Oph	2.0800	8900.0	66	38062	No
25	GOM_TRA_1PNPDE20090611_030627_000000302079_00433_38062_4386.N1	11-JUN-2009 03:06:27	Bright	30.000	130	23Bet Dra	2.7990	5800.0	60	38062	No
26	GOM_TRA_1PNPDE20090611_031708_000000312079_00433_38062_4387.N1	11-JUN-2009 03:17:08	Twilight	31.000	89	5Alp Cep	2.4510	8000.0	62	38062	No
27	GOM_TRA_1PNPDE20090611_032310_000000262079_00433_38062_4533.N1	11-JUN-2009 03:23:10	Twilight	25.500	74	11Bet Cas	2.2680	6600.0	51	38062	No
28	GOM_TRA_1PNPDE20090611_033137_000000242079_00433_38062_4534.N1	11-JUN-2009 03:31:37	Twilight	24.000	53	43Bet And	2.0480	3300.0	48	38062	No
29	GOM_TRA_1PNPDE20090611_034950_000000312079_00433_38062_4535.N1	11-JUN-2009 03:49:50	Dark	31.000	52	16Bet Cet	2.0370	4500.0	62	38062	No
30	GOM_TRA_1PNPDE20090611_040215_000000342079_00434_38063_4536.N1	11-JUN-2009 04:02:15	Dark	33.500	63	Bet Gru	2.1500	2800.0	67	38063	No
31	GOM_TRA_1PNPDE20090611_040417_000000342079_00434_38063_4537.N1	11-JUN-2009 04:04:17	Dark	34.000	31	Alp Gru	1.7340	15200.	68	38063	No
32	GOM_TRA_1PNPDE20090611_040548_000000432079_00434_38063_4538.N1	11-JUN-2009 04:05:48	Straylight	42.500	172	Gam Gru	3.0030	13100.	85	38063	No
33	GOM_TRA_1PNPDE20090611_041825_000000312079_00434_38063_4539.N1	11-JUN-2009 04:18:25	Twilight	31.000	38	20Eps Sgr	1.8360	11000.	62	38063	No
34	GOM_TRA_1PNPDE20090611_042024_000000372079_00434_38063_4540.N1	11-JUN-2009 04:20:24	Twilight	36.500	57	34Sig Sgr	2.0660	26000.	73	38063	No
35	GOM_TRA_1PNPDE20090611_043233_000000342079_00434_38063_4541.N1	11-JUN-2009 04:32:33	Bright	34.000	126	60Bet Oph	2.7700	4250.0	68	38063	No
36	GOM_TRA_1PNPDE20090611_043509_000000342079_00434_38063_4542.N1	11-JUN-2009 04:35:09	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	38063	No
37	GOM_TRA_1PNPDE20090611_044703_000000302079_00434_38063_4543.N1	11-JUN-2009 04:47:03	Bright	30.000	130	23Bet Dra	2.7990	5800.0	60	38063	No
38	GOM_TRA_1PNPDE20090611_045744_000000312079_00434_38063_4544.N1	11-JUN-2009 04:57:44	Twilight	30.500	89	5Alp Cep	2.4510	8000.0	61	38063	No
39	GOM_TRA_1PNPDE20090611_050345_000000262079_00434_38063_4826.N1	11-JUN-2009 05:03:45	Twilight	26.000	74	11Bet Cas	2.2680	6600.0	52	38063	No
40	GOM_TRA_1PNPDE20090611_051213_000000252079_00434_38063_4827.N1	11-JUN-2009 05:12:13	Twilight	24.500	53	43Bet And	2.0480	3300.0	49	38063	No
41	GOM_TRA_1PNPDE20090611_053027_000000322079_00434_38063_4828.N1	11-JUN-2009 05:30:27	Dark	31.500	52	16Bet Cet	2.0370	4500.0	63	38063	No
42	GOM_TRA_1PNPDE20090611_054048_000000452079_00435_38064_4829.N1	11-JUN-2009 05:40:48	Dark	44.500	18	24Alp PsA	1.1660	9700.0	89	38064	No
43	GOM_TRA_1PNPDE20090611_054252_000000342079_00435_38064_4830.N1	11-JUN-2009 05:42:52	Dark	34.000	63	Bet Gru	2.1500	2800.0	68	38064	No
44	GOM_TRA_1PNPDE20090611_054454_000000352079_00435_38064_4831.N1	11-JUN-2009 05:44:54	Dark	34.500	31	Alp Gru	1.7340	15200.	69	38064	No
45	GOM_TRA_1PNPDE20090611_054625_000000432079_00435_38064_4832.N1	11-JUN-2009 05:46:25	Straylight	42.500	172	Gam Gru	3.0030	13100.	85	38064	No
46	GOM_TRA_1PNPDE20090611_055902_000000312079_00435_38064_4833.N1	11-JUN-2009 05:59:02	Twilight	30.500	38	20Eps Sgr	1.8360	11000.	61	38064	No
47	GOM_TRA_1PNPDE20090611_060101_000000372079_00435_38064_4834.N1	11-JUN-2009 06:01:01	Twilight	36.500	57	34Sig Sgr	2.0660	26000.	73	38064	No
48	GOM_TRA_1PNPDE20090611_061309_000000342079_00435_38064_4835.N1	11-JUN-2009 06:13:09	Bright	34.000	126	60Bet Oph	2.7700	4250.0	68	38064	No
49	GOM_TRA_1PNPDE20090611_061545_000000342079_00435_38064_4836.N1	11-JUN-2009 06:15:45	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	38064	No
50	GOM_TRA_1PNPDE20090611_062738_000000312079_00435_38064_4837.N1	11-JUN-2009 06:27:38	Bright	30.500	130	23Bet Dra	2.7990	5800.0	61	38064	No

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



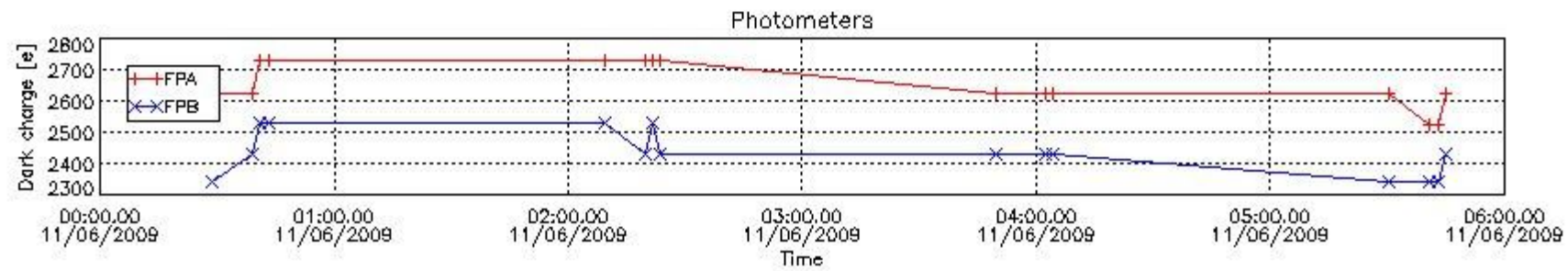
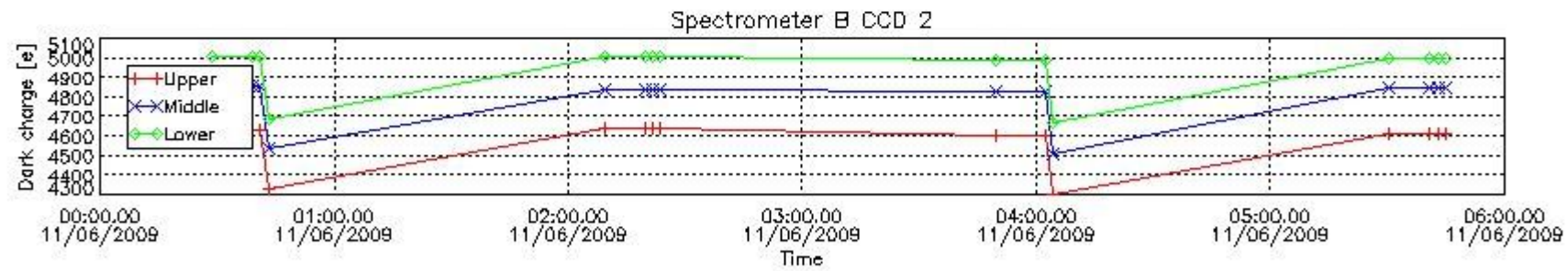
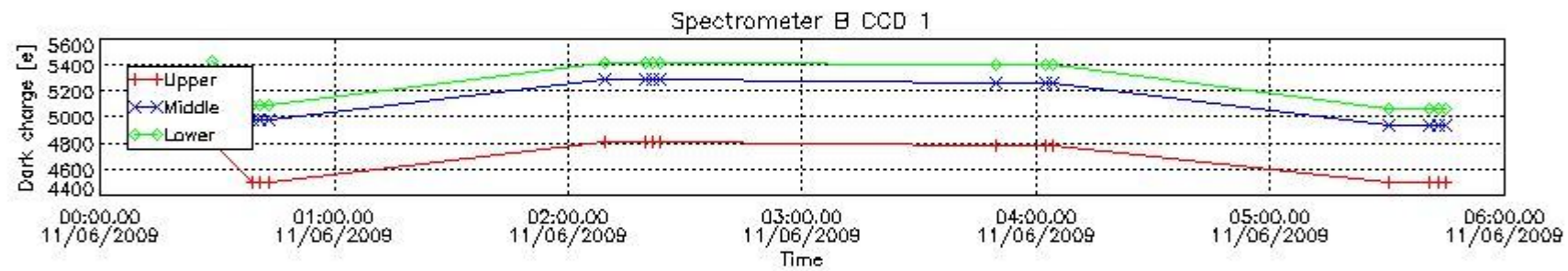
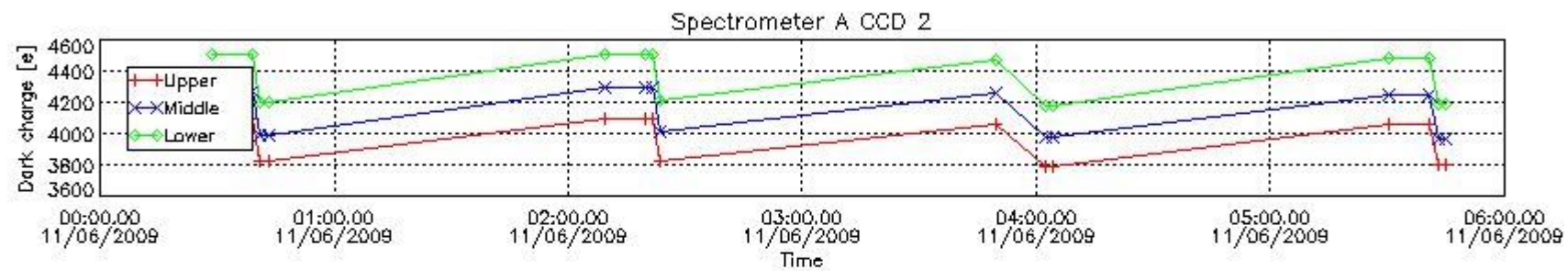
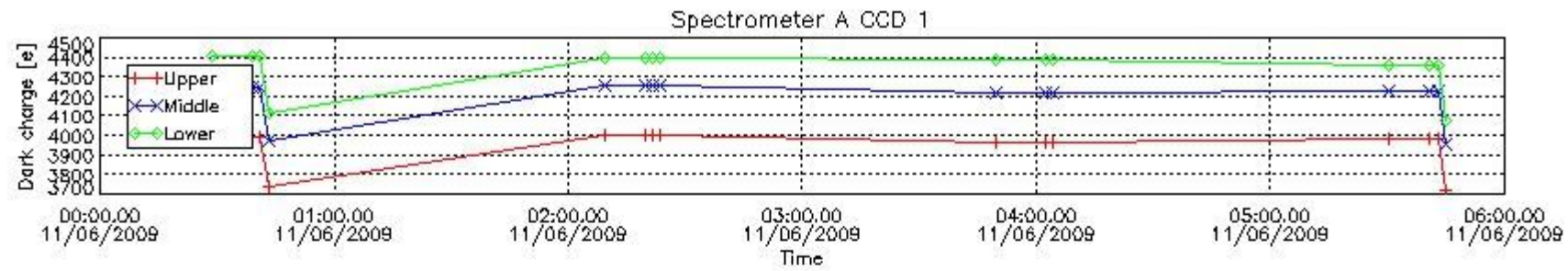
4. Overview of dark signal processing per product

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



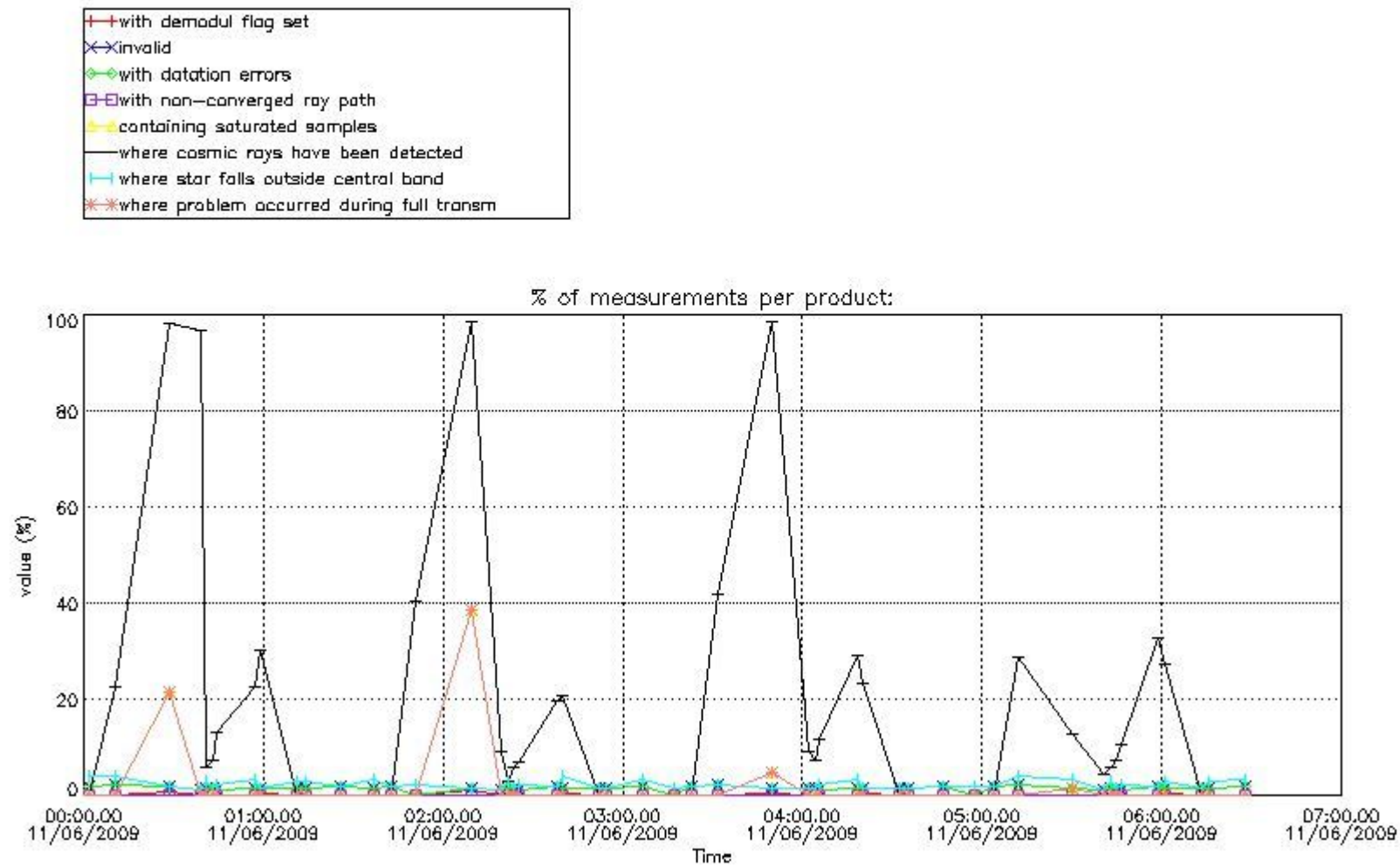
5. Demodulation flag and quality information monitoring

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.

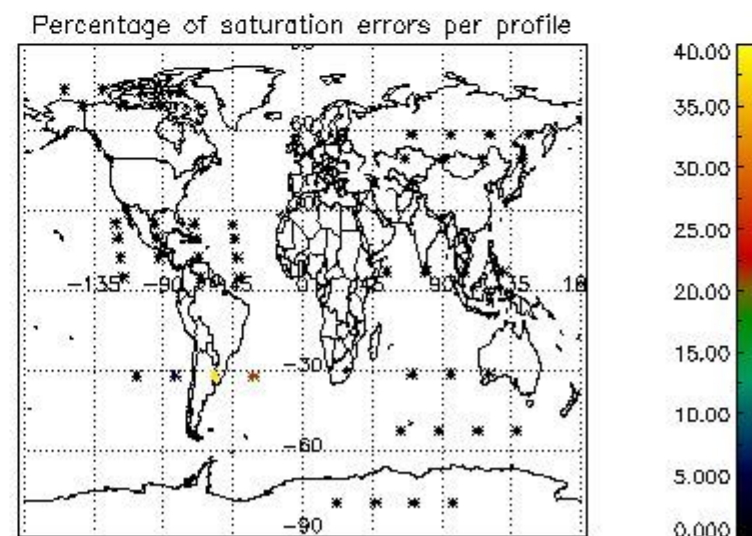
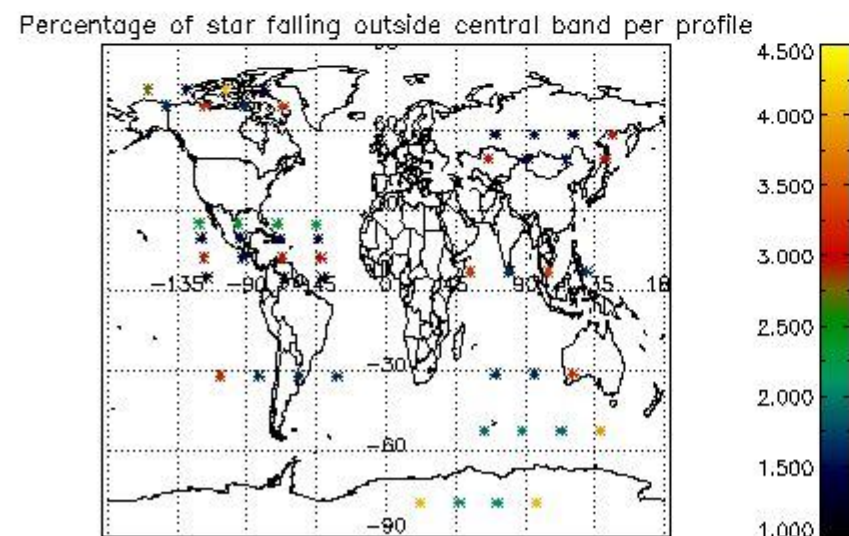
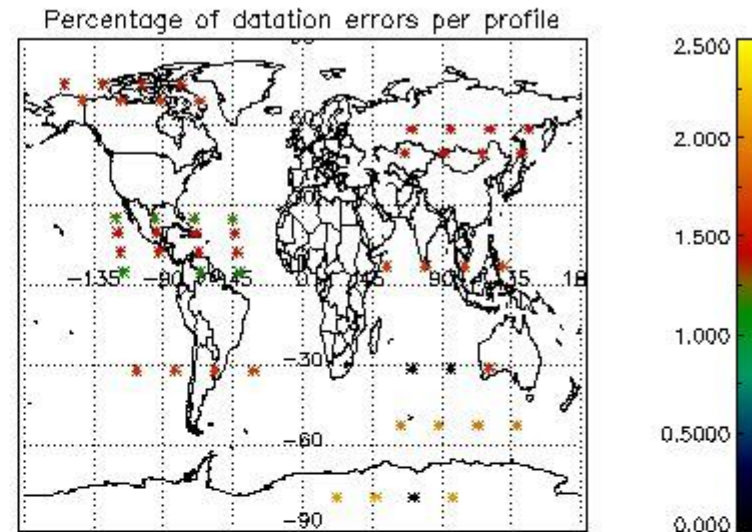
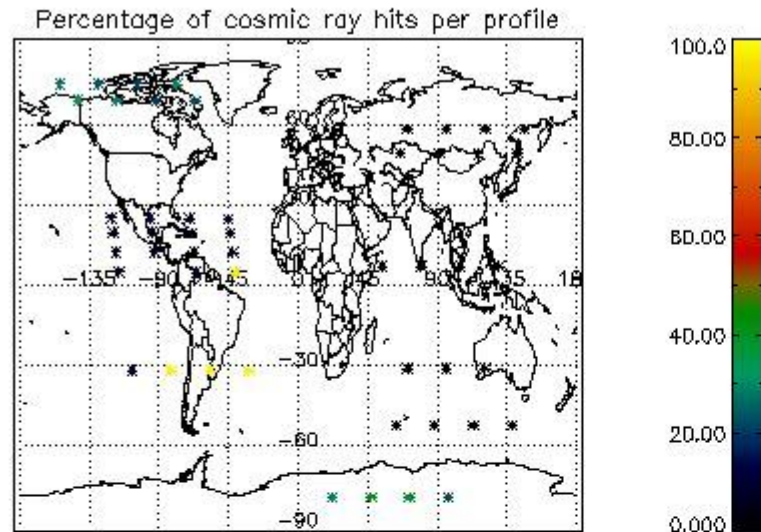
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	38.0000 %
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)



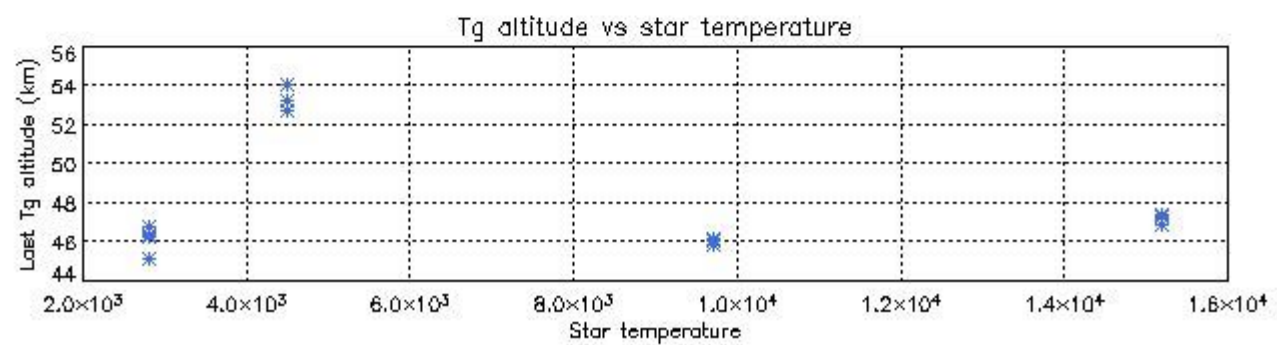
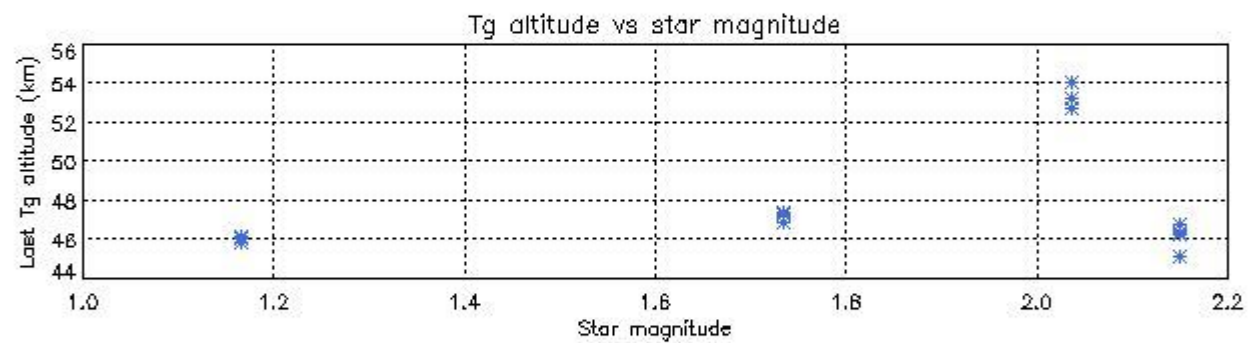
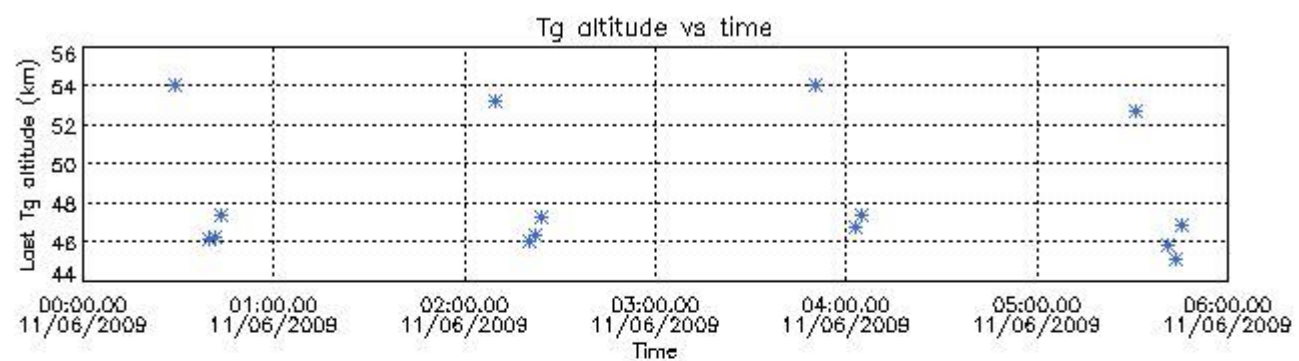
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	48.371	48.838	NaN
St. deviation:	3.2834	0.78232	NaN
Maximum:	54.087	50.199	NaN
Minimum:	45.153	47.783	NaN
Number of data:	15.000	12.000	NaN

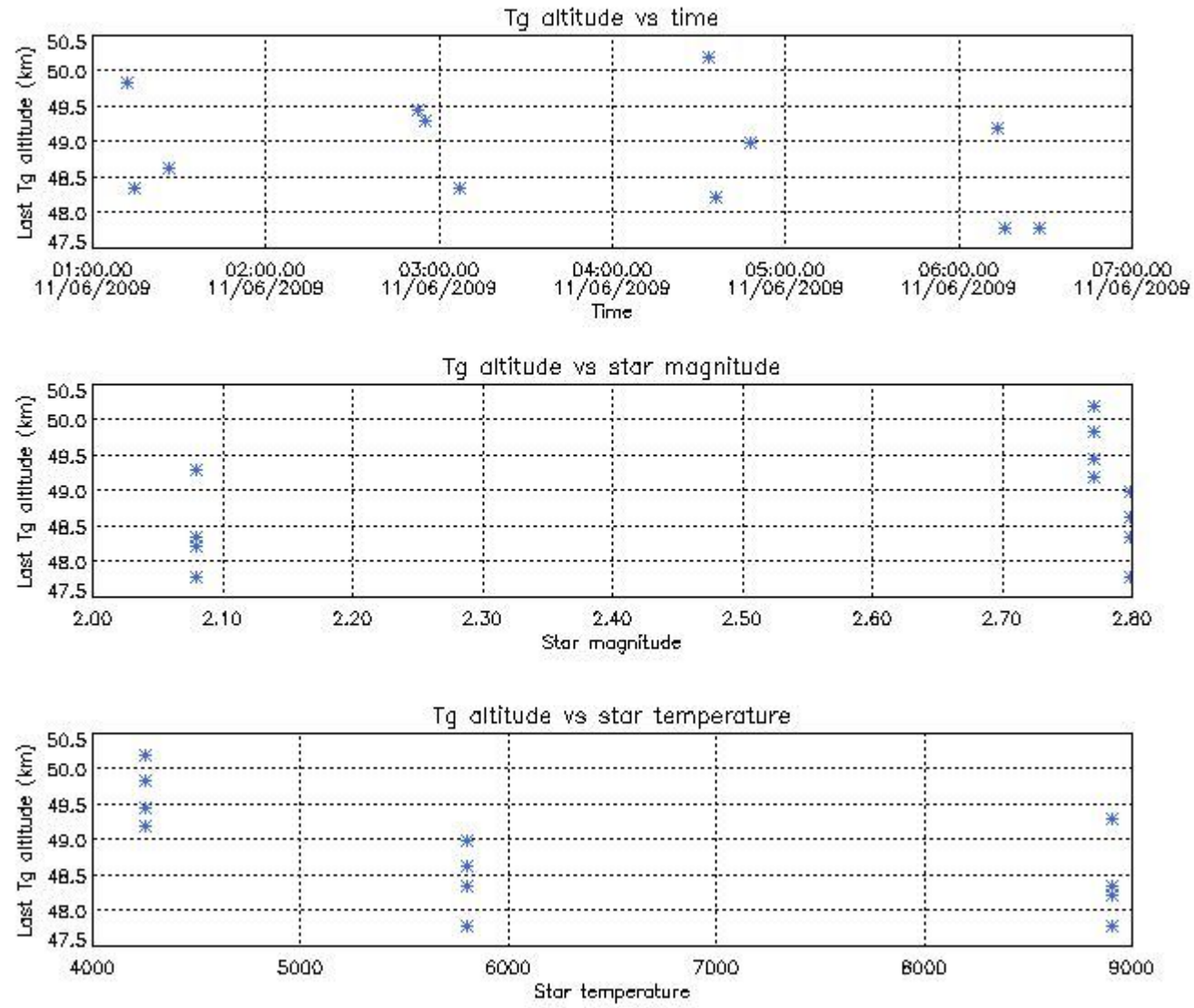
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

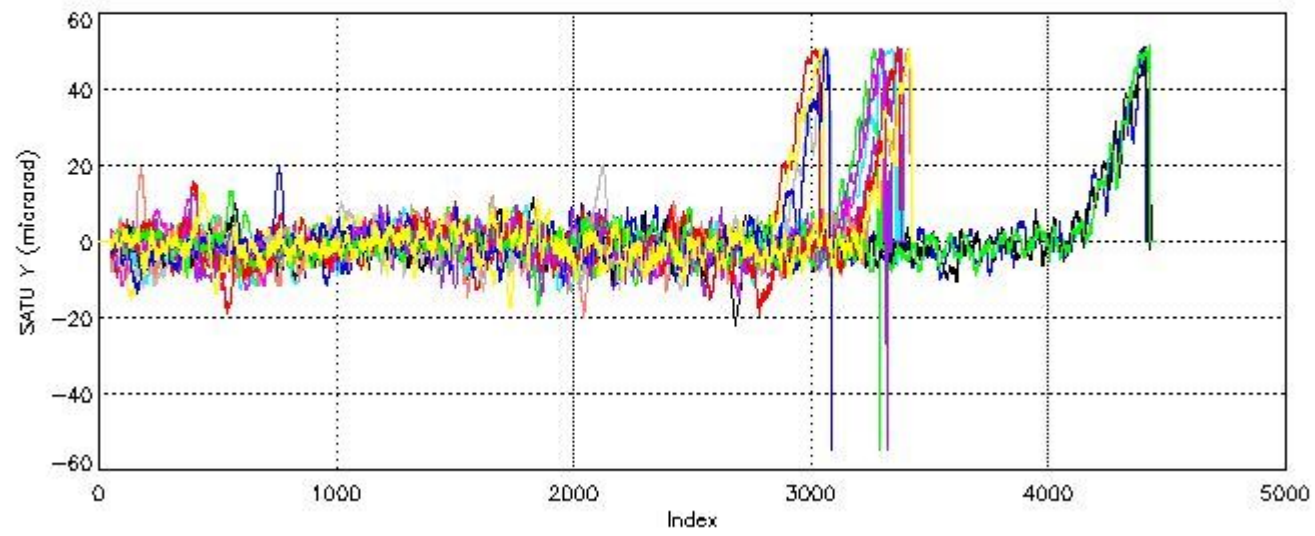
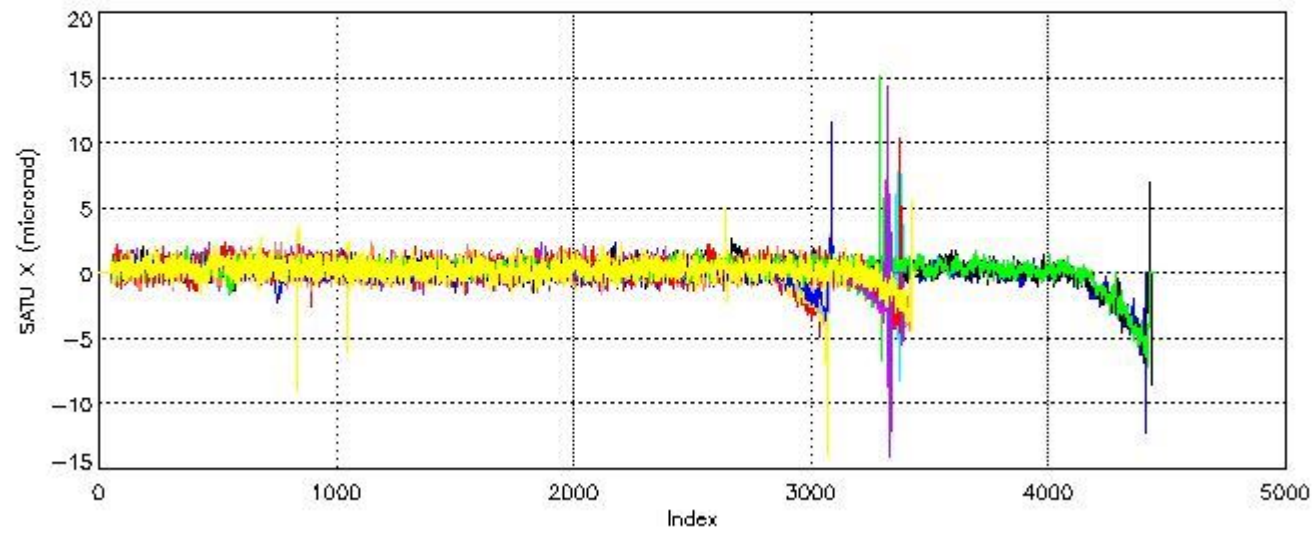


7. Star Acquisition and Tracking Unit (SATU)

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:	0.31130	-1.7522	0.36314	-1.2513
St. deviation:	0.42297	3.8153	0.79135	3.2056
Maximum:	3.5000	19.700	3.7000	9.2000
Minimum:	-9.0000	-18.700	-2.4000	-15.000

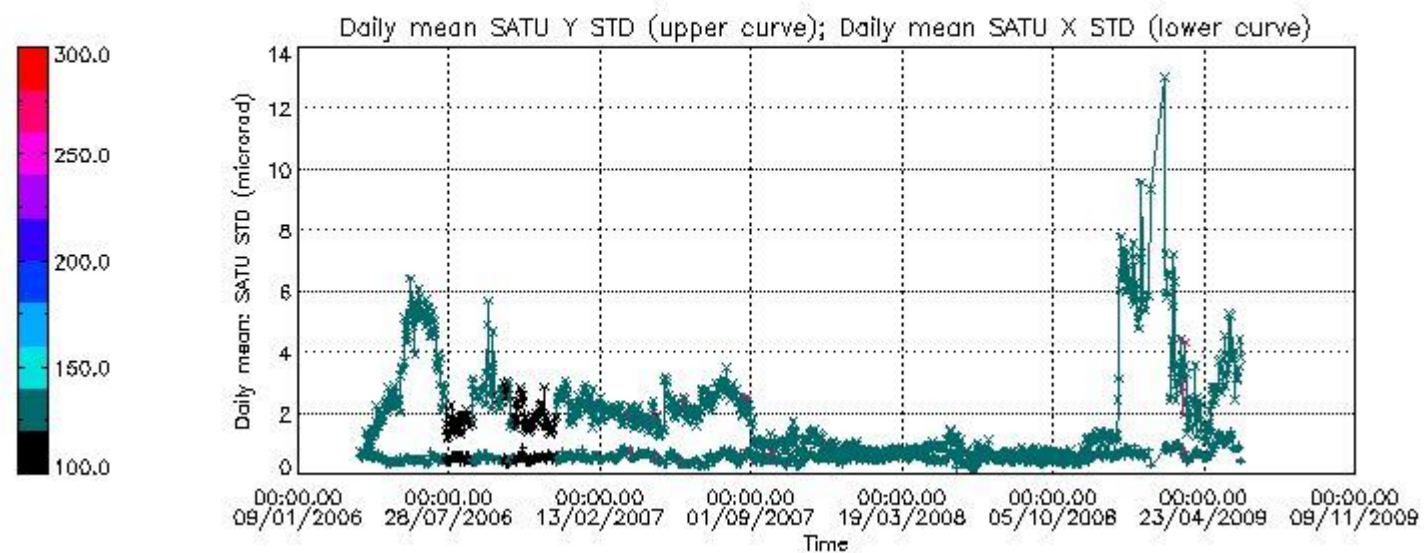
Number of data:	18050.	18050.	12700.	12700.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

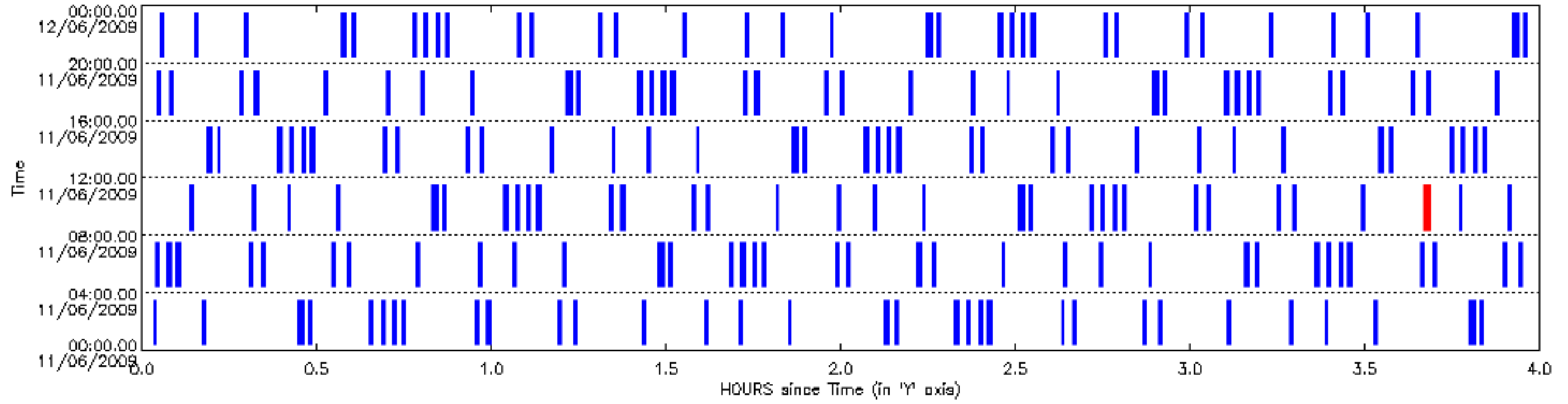
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

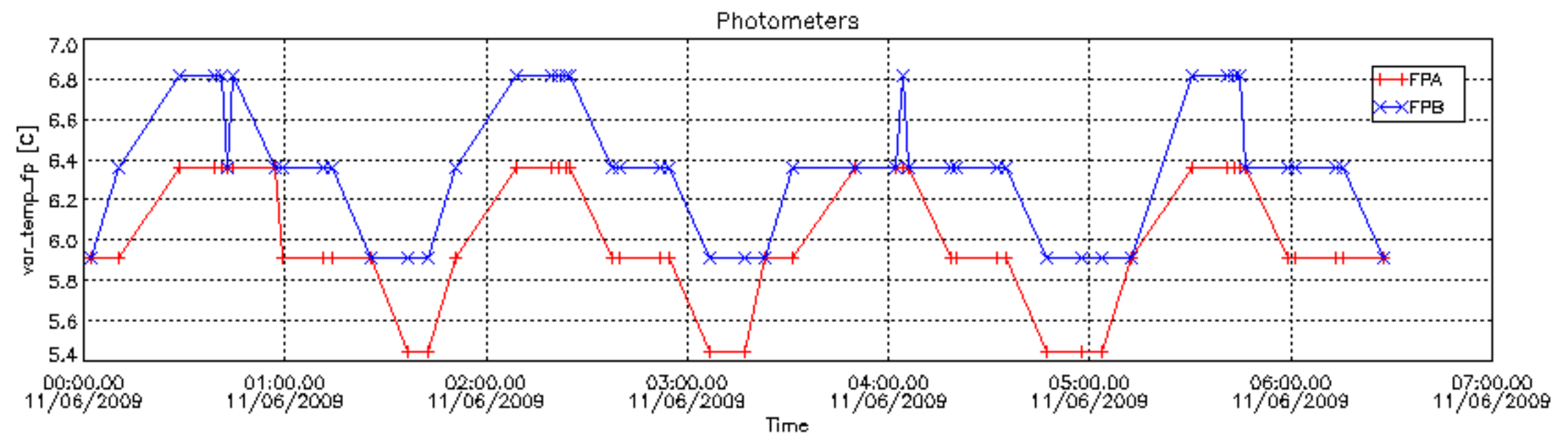
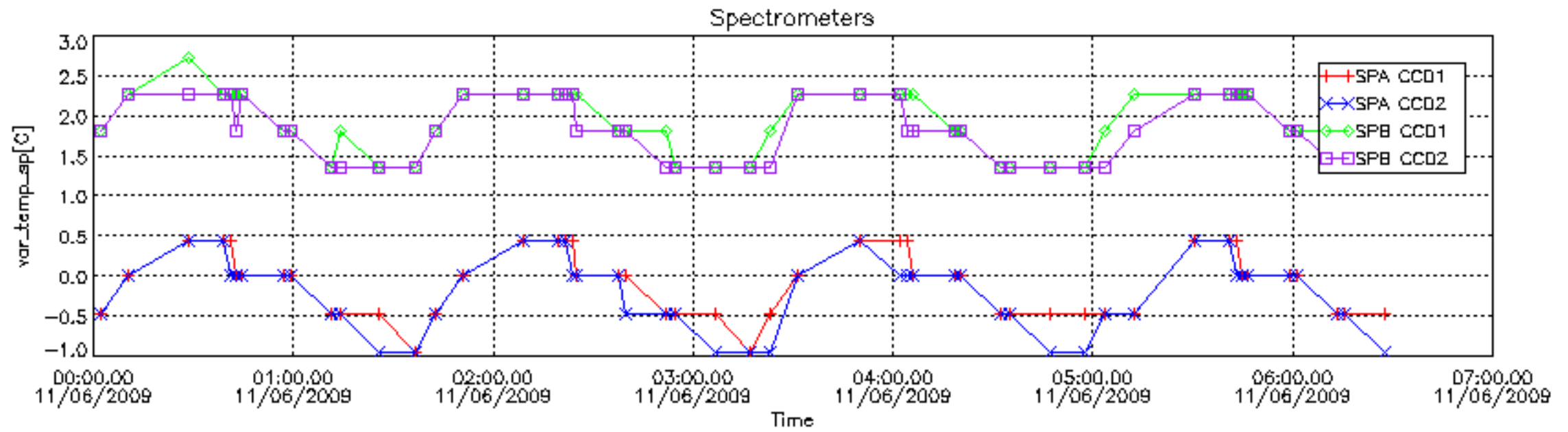


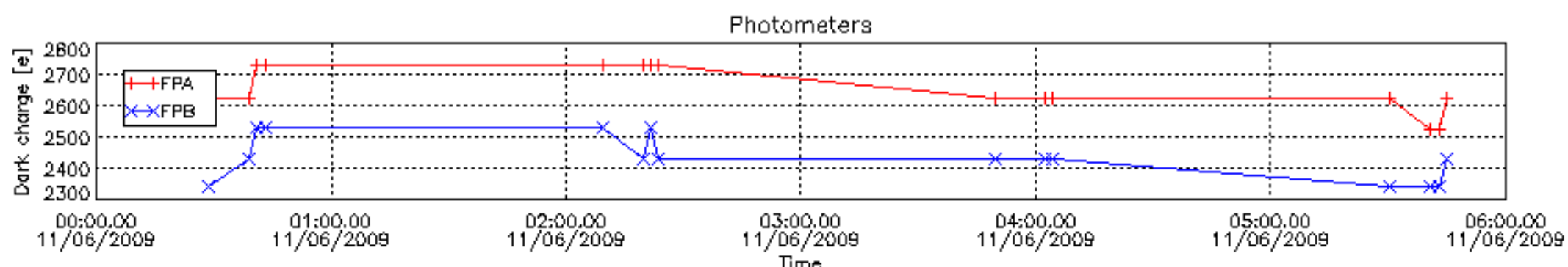
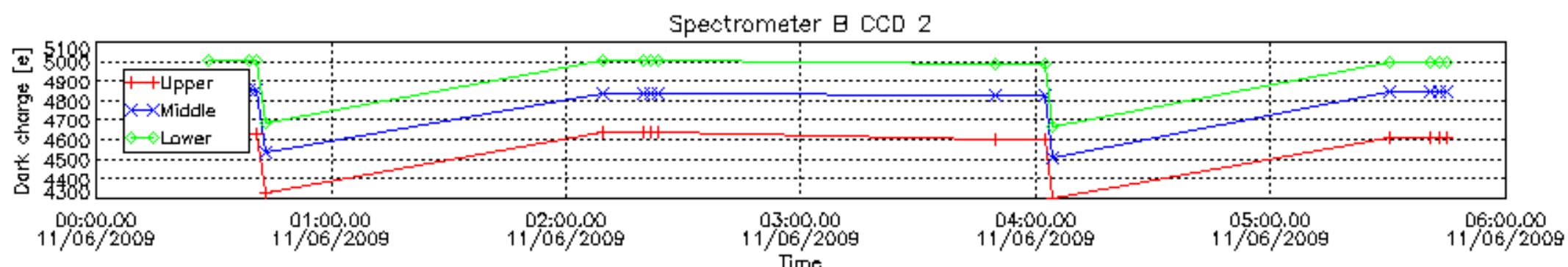
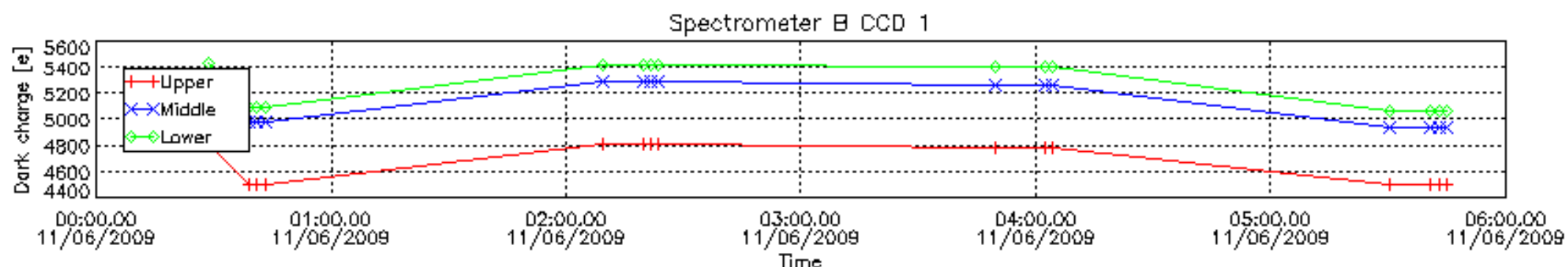
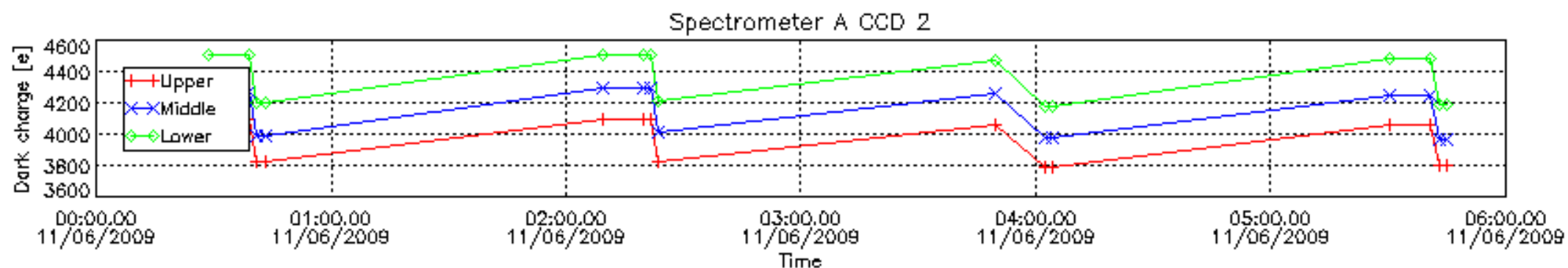
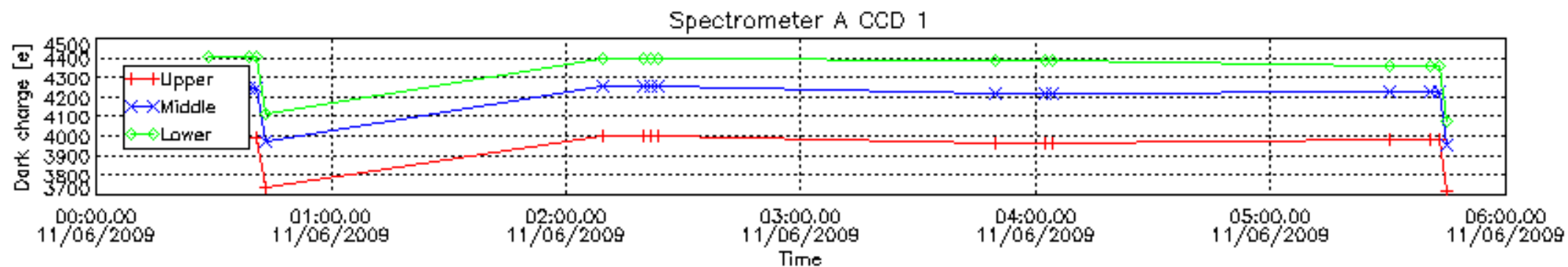
8. Auxiliary Data Files used for the production reported in section 2.4

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.

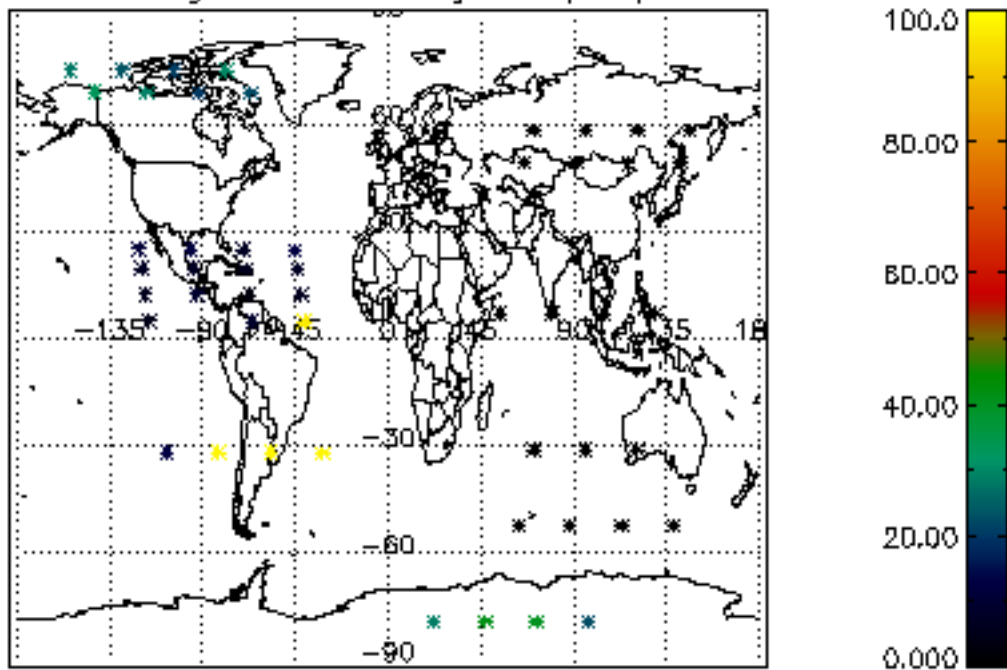
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090608_084241_20090606_000000_20100101_000000	1	11-JUN-2009 00:01:58
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	11-JUN-2009 00:01:58
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	11-JUN-2009 00:01:58
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	11-JUN-2009 00:01:58
ECMWF_FILE	AUX_ECF_AXNECM20090610_064112_20090610_210000_20090611_090000	1	11-JUN-2009 00:01:58
ECMWF_FILE	AUX_ECF_AXNECM20090610_184112_20090611_030000_20090611_150000	27	11-JUN-2009 03:23:10
OPTIONAL_ECMWF_FILE	MISSING	1	11-JUN-2009 00:01:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090610_205647_000060572079_00429_38058_8126.N1	1	11-JUN-2009 00:01:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090610_224303_000057382079_00430_38059_8127.N1	3	11-JUN-2009 00:28:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090611_002400_000054192079_00431_38060_8128.N1	16	11-JUN-2009 02:09:13
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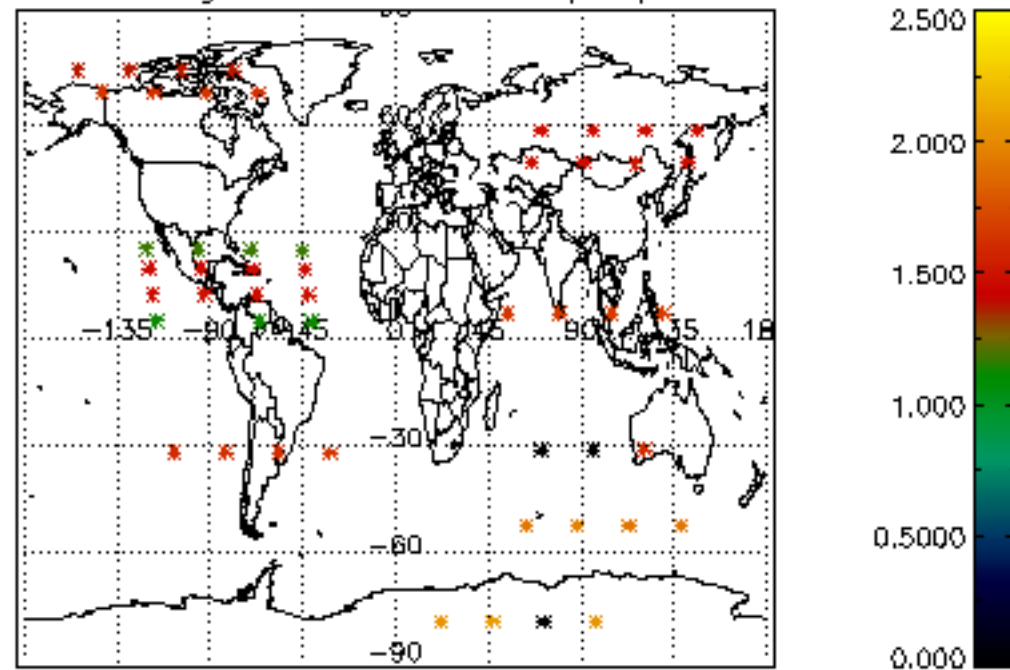




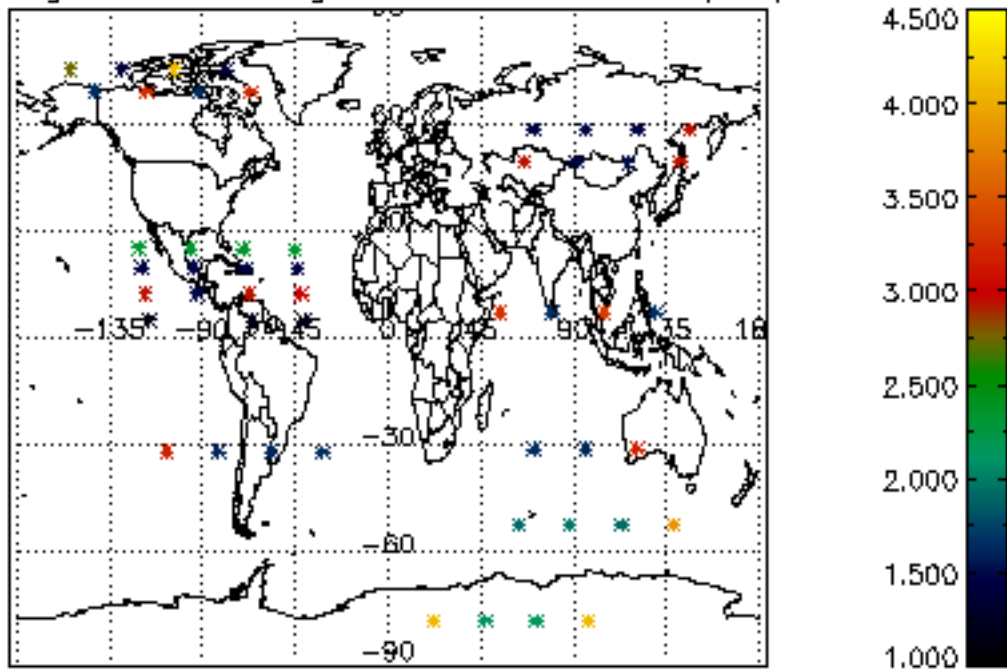
Percentage of cosmic ray hits per profile



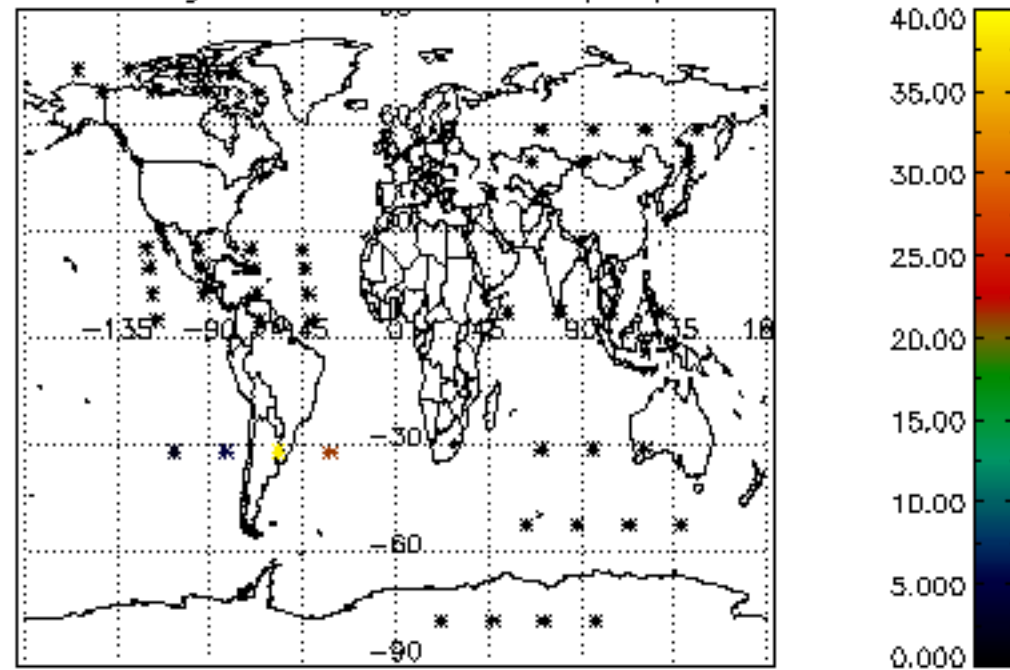
Percentage of datation errors per profile



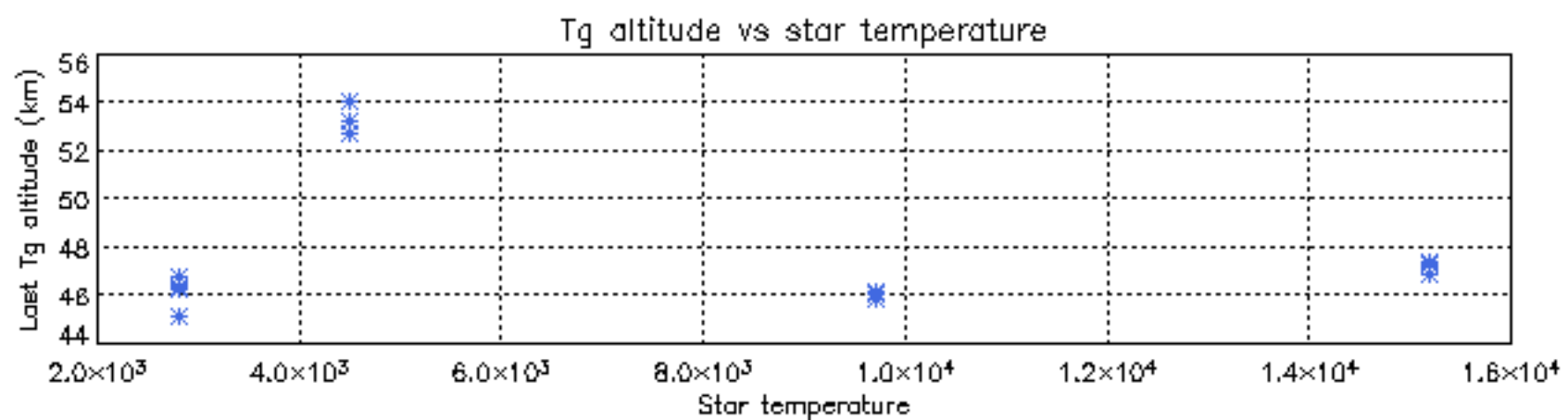
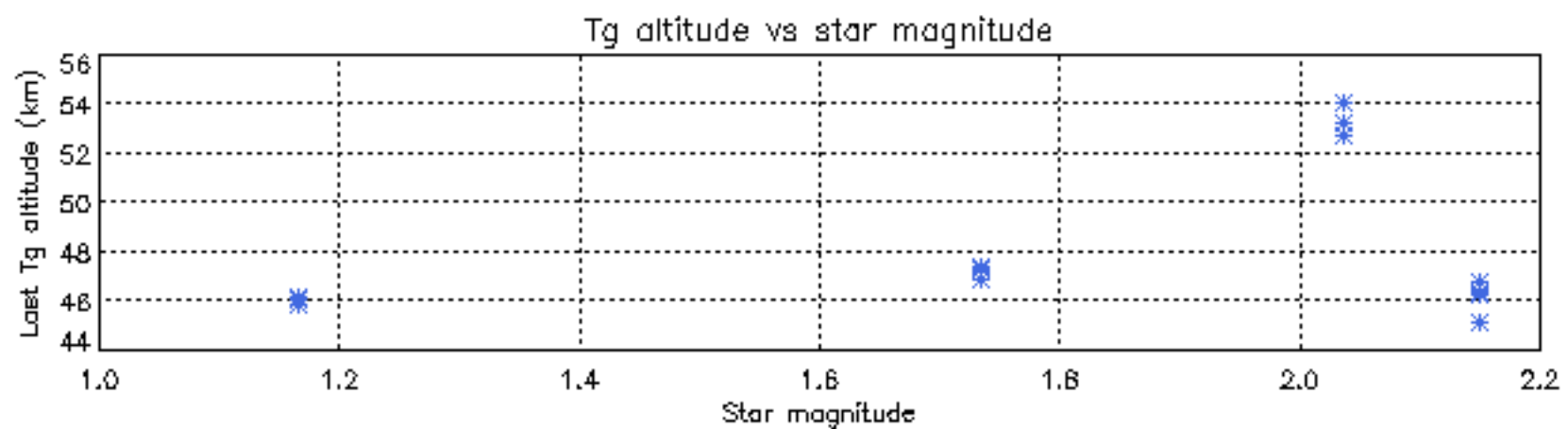
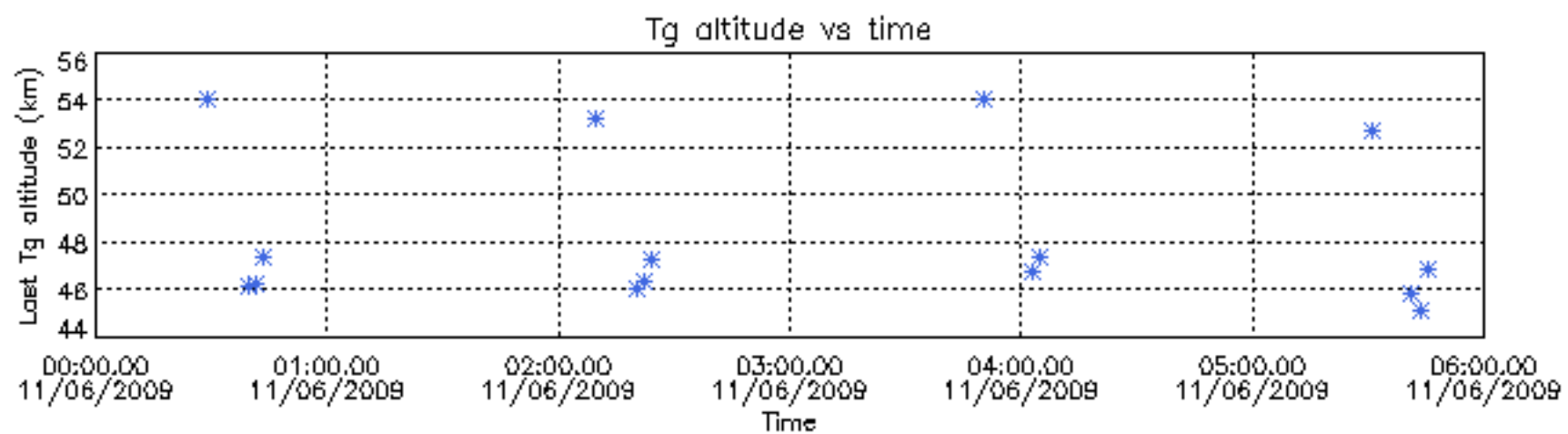
Percentage of star falling outside central band per profile



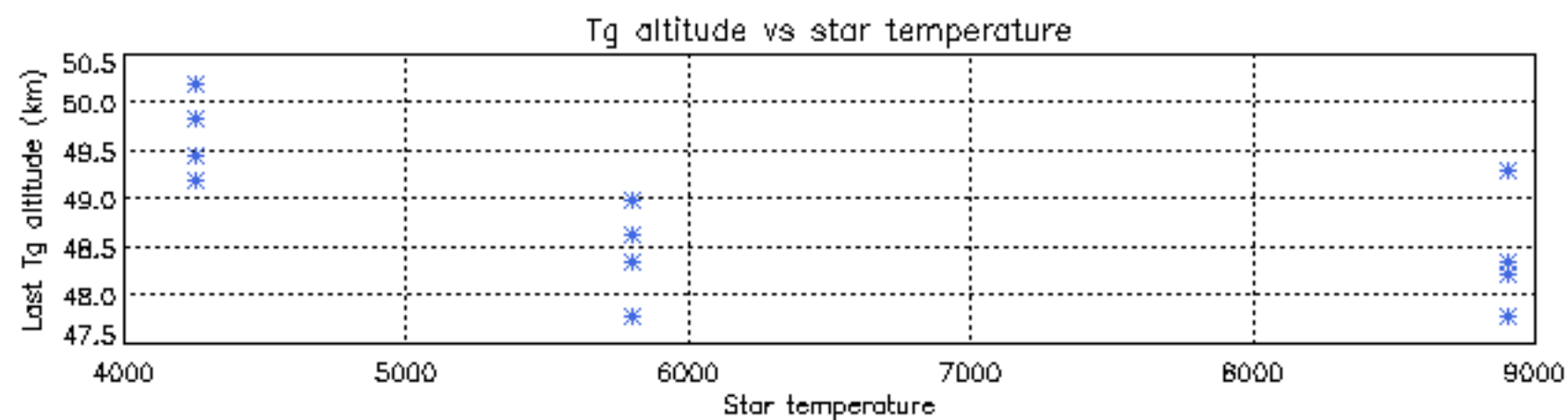
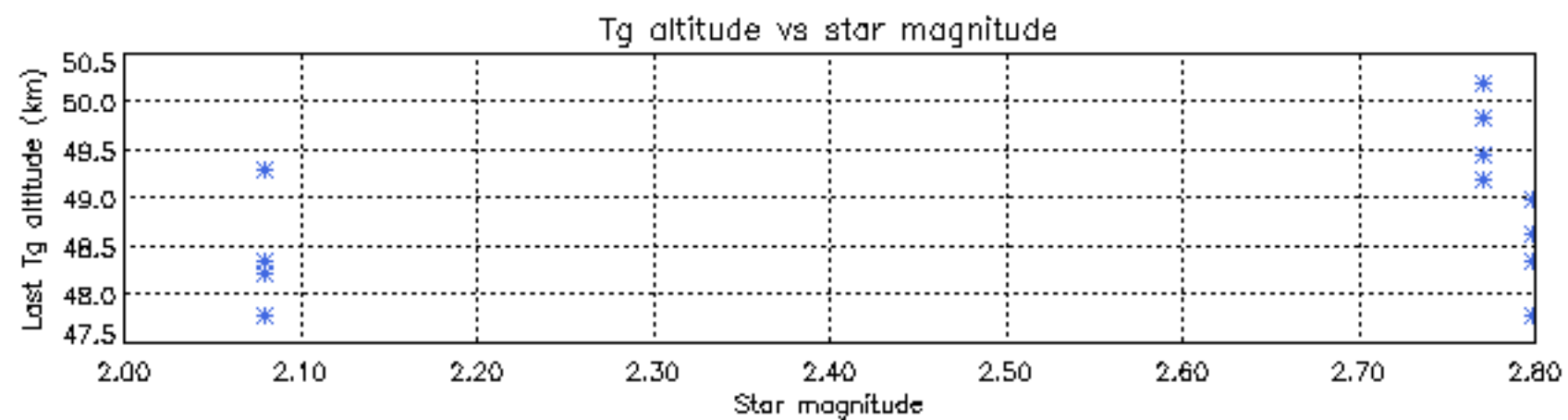
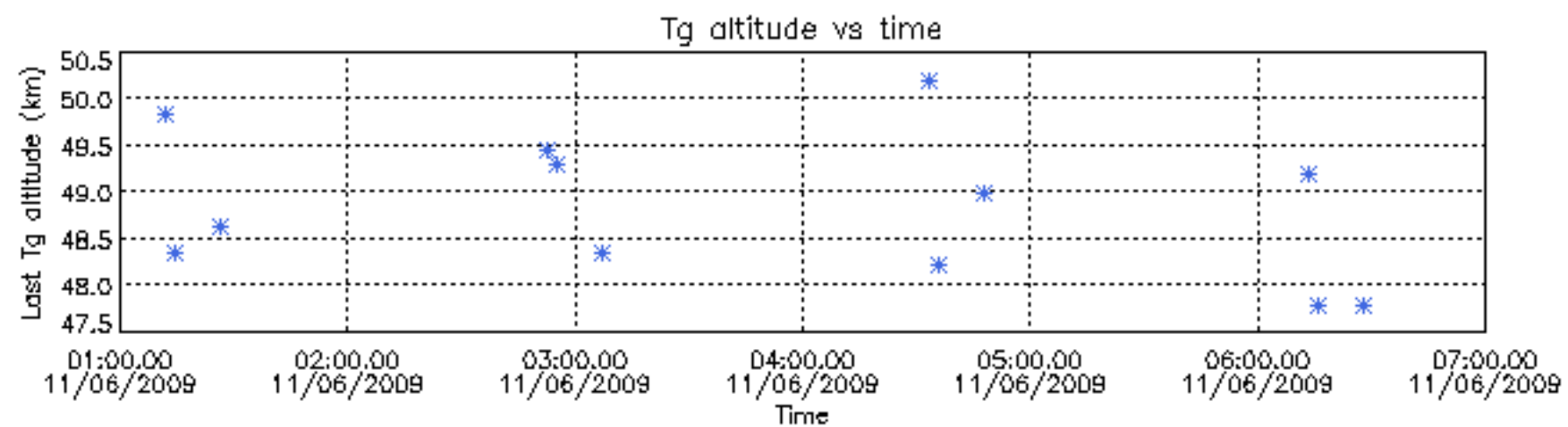
Percentage of saturation errors per profile

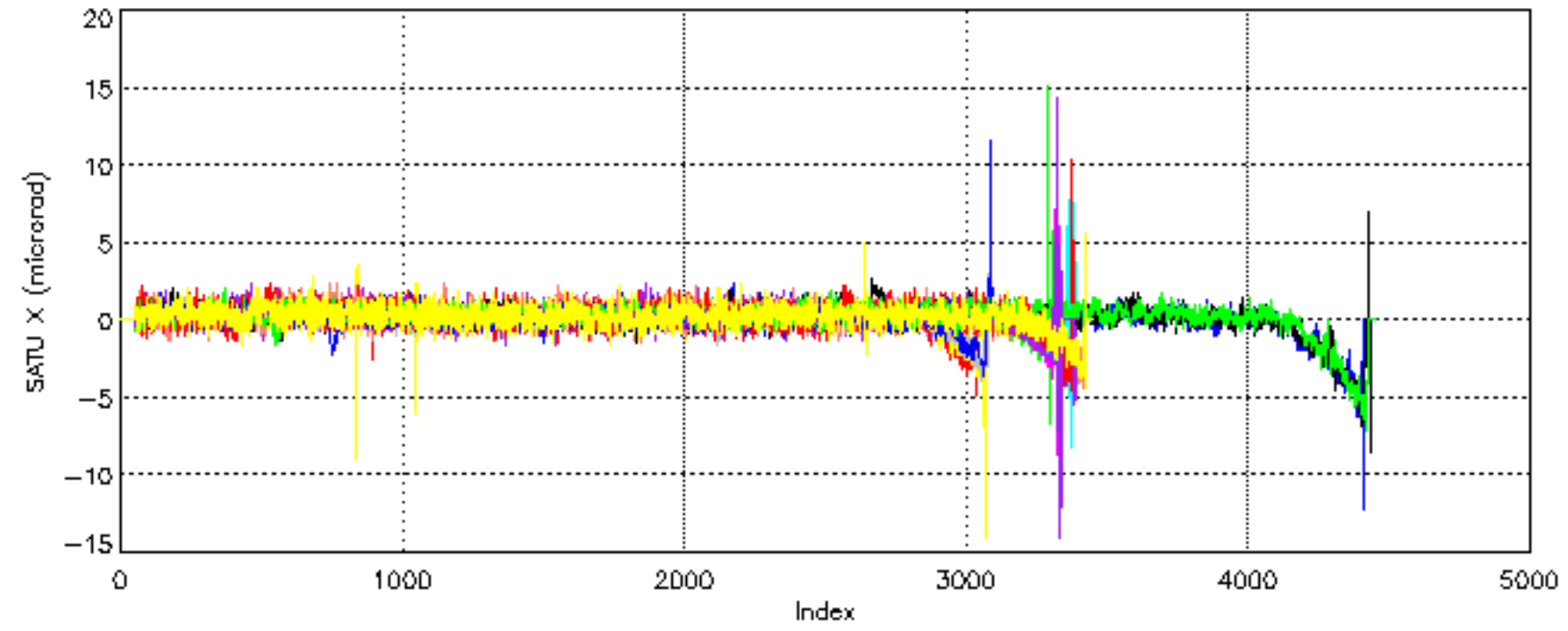


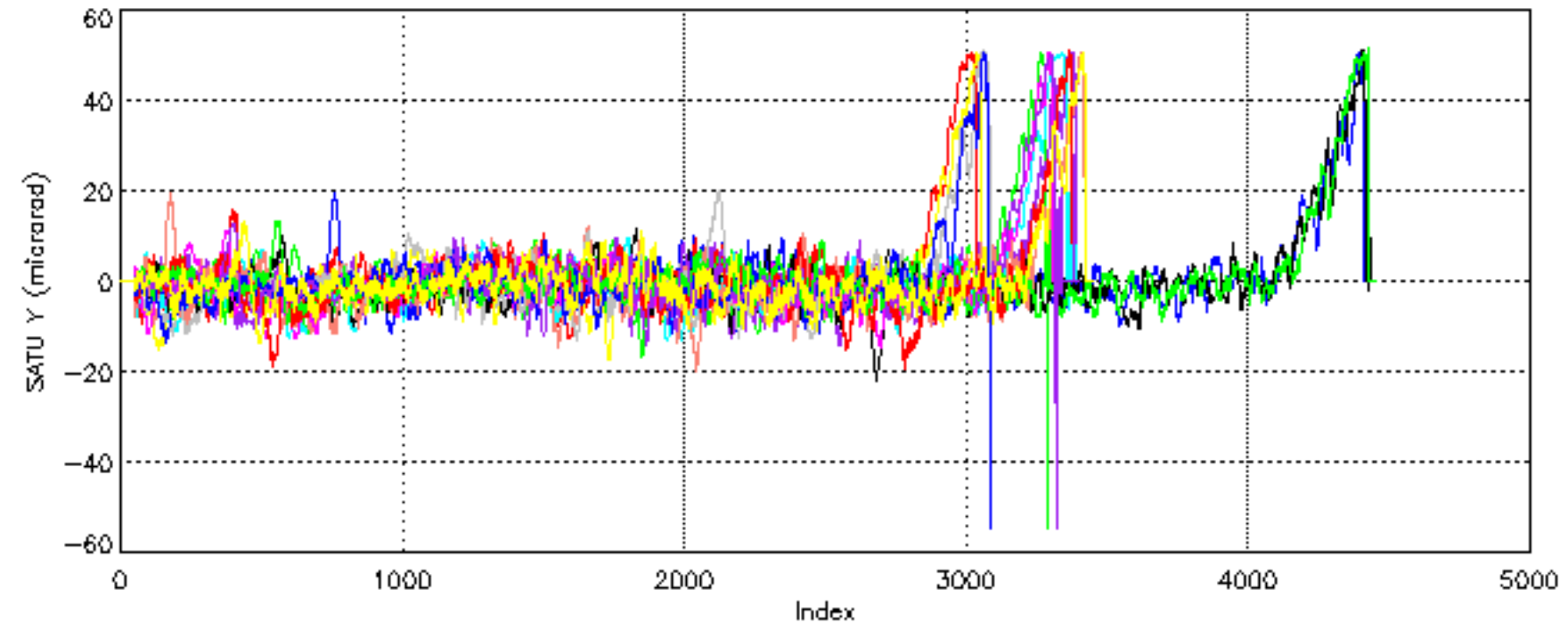
Tangent altitude at which the star is lost

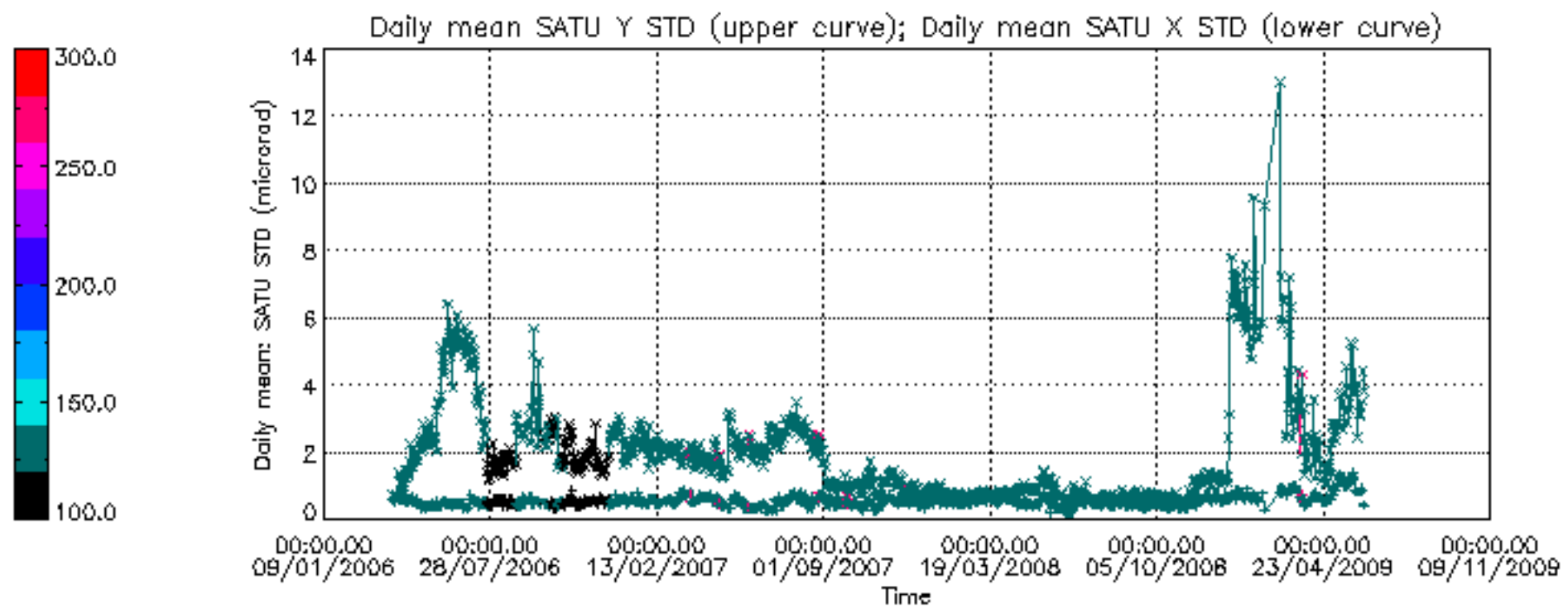


Tangent altitude at which the star is lost









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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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6; 1599.4; 06-JUN-2009 22:08:54; Bright; 29.0; 86; 35Eta Oph ; 2.43; 10200;occ; 58; 0;38002
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5; 198.1; 10-JUN-2009 07:54:54; Dark ; 33.0; 63; Bet Gru ; 2.15; 2800;occ; 66; 0;38051
6; 318.6; 10-JUN-2009 07:56:54; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38051
7; 1173.7; 10-JUN-2009 08:11:09; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38051
8; 1293.0; 10-JUN-2009 08:13:09; Dark ; 35.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 71; 0;38051
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3; 2901.7; 10-JUN-2009 08:39:57; Bright; 30.5; 130; 23Bet Dra ; 2.80; 5800;occ; 61; 0;38051
4; 3544.6; 10-JUN-2009 08:50:40; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38051
5; 3902.5; 10-JUN-2009 08:56:38; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38051
6; 4405.8; 10-JUN-2009 09:05:01; Dark ; 24.0; 53; 43Bet And ; 2.05; 3300;occ; 48; 0;38051
7; 5376.4; 10-JUN-2009 09:21:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38051
8; 5489.6; 10-JUN-2009 09:23:05; Dark ; 30.5; 52; 16Bet Cet ; 2.04; 4500;occ; 61; 0;38051
9; 6234.5; 10-JUN-2009 09:35:30; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38051
10; 6355.2; 10-JUN-2009 09:37:31; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38051
11; 7209.7; 10-JUN-2009 09:51:45; Dark ; 31.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 62; 0;38051
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2; 2187.9; 10-JUN-2009 10:08:39; Bright; 34.0; 59; 55Alp Oph ; 2.08; 8900;occ; 68; 0;38052
3; 2901.3; 10-JUN-2009 10:20:33; Bright; 30.5; 130; 23Bet Dra ; 2.80; 5800;occ; 61; 0;38052
4; 3544.4; 10-JUN-2009 10:31:16; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38052
5; 3901.7; 10-JUN-2009 10:37:13; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38052
6; 4405.6; 10-JUN-2009 10:45:37; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38052
7; 5377.2; 10-JUN-2009 11:01:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38052
8; 5490.3; 10-JUN-2009 11:03:42; Dark ; 30.5; 52; 16Bet Cet ; 2.04; 4500;occ; 61; 0;38052
9; 6104.0; 10-JUN-2009 11:13:55; Dark ; 43.5; 18; 24Alp PsA ; 1.17; 9700;occ; 87; 0;38052
10; 6235.4; 10-JUN-2009 11:16:07; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38052
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; 3543.8; 10-JUN-2009 12:11:51; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38053
4; 3901.5; 10-JUN-2009 12:17:49; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38053
5; 4405.6; 10-JUN-2009 12:26:13; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38053
6; 5378.1; 10-JUN-2009 12:42:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38053
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8; 6105.5; 10-JUN-2009 12:54:33; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;38053
9; 6236.4; 10-JUN-2009 12:56:44; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38053
10; 6357.5; 10-JUN-2009 12:58:45; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38053
11; 7210.7; 10-JUN-2009 13:12:58; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38053
12; 7329.5; 10-JUN-2009 13:14:57; Dark ; 36.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 73; 0;38053
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2; 2186.9; 10-JUN-2009 13:29:50; Bright; 34.0; 59; 55Alp Oph ; 2.08; 8900;occ; 68; 0;38054
3; 2900.5; 10-JUN-2009 13:41:44; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38054
4; 3901.4; 10-JUN-2009 13:58:25; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38054
5; 4406.0; 10-JUN-2009 14:06:49; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38054
6; 5379.0; 10-JUN-2009 14:23:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38054
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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
9; 6237.5; 10-JUN-2009 14:37:21; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38054
10; 6358.6; 10-JUN-2009 14:39:22; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38054
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2; 2186.4; 10-JUN-2009 15:10:25; Bright; 34.0; 59; 55Alp Oph ; 2.08; 8900;occ; 68; 0;38055
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
6; 4406.3; 10-JUN-2009 15:47:25; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38055
7; 5380.0; 10-JUN-2009 16:03:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38055
8; 5493.5; 10-JUN-2009 16:05:33; Dark ; 30.5; 52; 16Bet Cet ; 2.04; 4500;occ; 61; 0;38055

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12; 7211.6; 10-JUN-2009 16:34:11; Dark ; 31.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 62; 0;38055
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3; 2186.1; 10-JUN-2009 16:51:01; Bright; 34.0; 59; 55Alp Oph ; 2.08; 8900;occ; 68; 0;38056
4; 2899.7; 10-JUN-2009 17:02:55; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38056
5; 3541.8; 10-JUN-2009 17:13:37; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38056
6; 3900.8; 10-JUN-2009 17:19:36; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38056
7; 4406.3; 10-JUN-2009 17:28:01; Dark ; 24.0; 53; 43Bet And ; 2.05; 3300;occ; 48; 0;38056
8; 5381.0; 10-JUN-2009 17:44:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38056
9; 5494.1; 10-JUN-2009 17:46:09; Dark ; 31.0; 52; 16Bet Cet ; 2.04; 4500;occ; 62; 0;38056
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3; 2028.2; 10-JUN-2009 18:28:59; Bright; 34.5; 126; 60Bet Oph ; 2.77; 4250;occ; 69; 0;38057
4; 2185.6; 10-JUN-2009 18:31:37; Bright; 34.0; 59; 55Alp Oph ; 2.08; 8900;occ; 68; 0;38057
5; 2898.9; 10-JUN-2009 18:43:30; Bright; 30.5; 130; 23Bet Dra ; 2.80; 5800;occ; 61; 0;38057
6; 3540.6; 10-JUN-2009 18:54:12; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38057
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8; 4406.2; 10-JUN-2009 19:08:37; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38057
9; 5381.9; 10-JUN-2009 19:24:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38057
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5; 328.6; 11-JUN-2009 00:43:03; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38061
6; 418.4; 11-JUN-2009 00:44:33; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38061
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8; 1296.6; 11-JUN-2009 00:59:11; Dark ; 36.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 73; 0;38061
9; 2026.9; 11-JUN-2009 01:11:22; Bright; 34.0; 126; 60Bet Oph ; 2.77; 4250;occ; 68; 0;38061
10; 2183.5; 11-JUN-2009 01:13:58; Bright; 34.0; 59; 55Alp Oph ; 2.08; 8900;occ; 68; 0;38061
11; 2897.1; 11-JUN-2009 01:25:52; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38061
12; 3538.3; 11-JUN-2009 01:36:33; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38061
13; 3899.2; 11-JUN-2009 01:42:34; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38061
14; 4406.6; 11-JUN-2009 01:51:01; Dark ; 23.5; 53; 43Bet And ; 2.05; 3300;occ; 47; 0;38061
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3; 81.7; 11-JUN-2009 02:19:32; Dark ; 44.5; 18; 24Alp PsA ; 1.17; 9700;occ; 89; 0;38062
4; 207.6; 11-JUN-2009 02:21:38; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38062
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8; 1297.3; 11-JUN-2009 02:39:48; Dark ; 36.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 73; 0;38062
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4; -536.9; 11-JUN-2009 03:49:50; Dark ; 31.0; 52; 16Bet Cet ; 2.04; 4500;occ; 62; 0;38062
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
7; 421.5; 11-JUN-2009 04:05:48; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38063

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13; 2895.6; 11-JUN-2009 06:27:38; Bright; 30.5; 130; 23Bet Dra ; 2.80; 5800;occ; 61; 0;38064
14; 3536.4; 11-JUN-2009 06:38:19; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38064
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6; 210.9; 11-JUN-2009 07:23:29; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38065
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9; 1179.4; 11-JUN-2009 07:39:38; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38065
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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
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3; 2894.9; 11-JUN-2009 09:48:49; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38066
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7; 3895.9; 11-JUN-2009 21:49:42; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38073
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6; 436.4; 11-JUN-2009 22:32:38; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38074
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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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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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12; 7216.3; 11-JUN-2009 12:41:27; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38067
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3; 103.9; 12-JUN-2009 01:48:18; Dark ; 45.0; 18; 24Alp PsA ; 1.17; 9700;occ; 90; 0;38076
4; 221.0; 12-JUN-2009 01:50:15; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38076
5; 342.9; 12-JUN-2009 01:52:17; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38076
6; 438.7; 12-JUN-2009 01:53:52; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38076
7; 1183.8; 12-JUN-2009 02:06:17; Dark ; 30.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 61; 0;38076
8; 1303.2; 12-JUN-2009 02:08:17; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38076
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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5; 105.6; 12-JUN-2009 03:28:55; Dark ; 45.0; 18; 24Alp PsA ; 1.17; 9700;occ; 90; 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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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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7; 345.1; 12-JUN-2009 05:13:31; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38078
8; 441.6; 12-JUN-2009 05:15:07; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38078
9; 1185.1; 12-JUN-2009 05:27:31; Dark ; 30.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 60; 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
5; 355.3; 12-JUN-2009 21:59:40; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38088
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
10; 2173.0; 12-JUN-2009 22:29:58; Bright; 32.5; 59; 55Alp Oph ; 2.08; 8900;occ; 65; 0;38088
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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2; 224.9; 12-JUN-2009 08:32:42; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38080
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
5; 3893.9; 12-JUN-2009 09:33:51; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38080
6; 4408.0; 12-JUN-2009 09:42:25; Dark ; 24.5; 53; 43Bet And ; 2.05; 3300;occ; 49; 0;38080
7; 5403.6; 12-JUN-2009 09:59:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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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9; 2017.9; 13-JUN-2009 00:07:59; Bright; 33.0; 126; 60Bet Oph ; 2.77; 4250;occ; 66; 0;38089
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12; 3520.1; 13-JUN-2009 00:33:01; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38089
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8; 5516.9; 12-JUN-2009 11:41:30; Dark ; 31.0; 52; 16Bet Cet ; 2.04; 4500;occ; 62; 0;38081
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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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8; 5517.3; 12-JUN-2009 13:22:07; Dark ; 31.5; 52; 16Bet Cet ; 2.04; 4500;occ; 63; 0;38082
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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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 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
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 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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 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
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 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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 2; 2005.2; 16-JUN-2009 13:38:18; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38140
 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
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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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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
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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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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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11; 2785.7; 17-JUN-2009 01:35:30; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38147
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13; 3480.7; 17-JUN-2009 01:47:05; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38147
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15; 3956.6; 17-JUN-2009 01:55:01; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;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
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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
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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
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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
10; 1245.2; 17-JUN-2009 06:11:38; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38150
11; 1331.8; 17-JUN-2009 06:13:04; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38150
12; 1437.6; 17-JUN-2009 06:14:50; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;38150
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14; 2152.3; 17-JUN-2009 06:26:45; Bright; 31.0; 59; 55Alp Oph ; 2.08; 8900;occ; 62; 0;38150
15; 2783.2; 17-JUN-2009 06:37:16; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38150
16; 2887.4; 17-JUN-2009 06:39:00; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38150
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 6; -436.9; 18-JUN-2009 03:31:23; Dark ; 35.5; 52; 16Bet Cet ; 2.04; 4500;occ; 71; 0;38162
 7; 306.5; 18-JUN-2009 03:43:46; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38163
 8; 429.5; 18-JUN-2009 03:45:49; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38163
 9; 555.7; 18-JUN-2009 03:47:55; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38163
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11; 1336.1; 18-JUN-2009 04:00:56; Dark ; 33.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 66; 0;38163
12; 1440.4; 18-JUN-2009 04:02:40; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;38163
13; 2000.4; 18-JUN-2009 04:12:00; Bright; 30.0; 126; 60Bet Oph ; 2.77; 4250;occ; 60; 0;38163
14; 2149.2; 18-JUN-2009 04:14:29; Bright; 30.0; 59; 55Alp Oph ; 2.08; 8900;occ; 60; 0;38163
15; 2772.1; 18-JUN-2009 04:24:52; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;38163
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; 556.9; 18-JUN-2009 05:28:32; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38164
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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
12; 1441.0; 18-JUN-2009 05:43:16; Bright; 36.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 73; 0;38164
13; 2000.2; 18-JUN-2009 05:52:36; Bright; 30.0; 126; 60Bet Oph ; 2.77; 4250;occ; 60; 0;38164
14; 2148.8; 18-JUN-2009 05:55:04; Bright; 30.0; 59; 55Alp Oph ; 2.08; 8900;occ; 60; 0;38164
15; 2771.1; 18-JUN-2009 06:05:27; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;38164
16; 2880.9; 18-JUN-2009 06:07:16; Bright; 30.0; 69; 33Gam Dra ; 2.23; 3800;occ; 60; 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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 8; 3463.0; 18-JUN-2009 21:22:22; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38173
 9; 3862.6; 18-JUN-2009 21:29:02; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38173
10; 3949.3; 18-JUN-2009 21:30:28; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38173
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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
10; 2146.3; 18-JUN-2009 22:41:01; Bright; 29.5; 59; 55Alp Oph ; 2.08; 8900;occ; 59; 0;38174
11; 2762.7; 18-JUN-2009 22:51:18; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 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
14; 3862.2; 18-JUN-2009 23:09:37; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 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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3; 317.5; 18-JUN-2009 23:51:08; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38175
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
8; 1443.4; 19-JUN-2009 00:09:54; Bright; 35.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 71; 0;38175
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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12; 2875.6; 19-JUN-2009 00:33:46; Bright; 29.5; 69; 33Gam Dra ; 2.23; 3800;occ; 59; 0;38175
13; 3461.2; 19-JUN-2009 00:43:32; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38175
14; 3861.7; 19-JUN-2009 00:50:12; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38175
15; 3948.9; 19-JUN-2009 00:51:40; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38175
16; 4413.9; 19-JUN-2009 00:59:25; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38175
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4; -1344.0; 18-JUN-2009 06:37:27; Dark ; 23.5; 105; 6Bet Ari ; 2.64; 8900;occ; 47; 0;38164
5; -539.1; 18-JUN-2009 06:50:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38164
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7; 307.9; 18-JUN-2009 07:04:59; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38165
8; 431.3; 18-JUN-2009 07:07:03; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38165
9; 558.2; 18-JUN-2009 07:09:10; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38165
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11; 1336.9; 18-JUN-2009 07:22:08; Dark ; 32.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 65; 0;38165
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3; 2770.4; 18-JUN-2009 07:46:02; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;38165
4; 2880.3; 18-JUN-2009 07:47:52; Bright; 30.0; 69; 33Gam Dra ; 2.23; 3800;occ; 60; 0;38165
5; 3468.5; 18-JUN-2009 07:57:40; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38165
6; 3865.7; 18-JUN-2009 08:04:17; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38165
7; 3951.7; 18-JUN-2009 08:05:43; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38165
8; 4413.4; 18-JUN-2009 08:13:25; Dark ; 26.5; 53; 43Bet And ; 2.05; 3300;occ; 53; 0;38165
9; 4692.0; 18-JUN-2009 08:18:03; Dark ; 24.0; 105; 6Bet Ari ; 2.64; 8900;occ; 48; 0;38165
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15; 7287.8; 18-JUN-2009 09:01:19; Dark ; 32.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 65; 0;38165
16; 7373.2; 18-JUN-2009 09:02:45; Dark ; 32.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 65; 0;38165
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4; 2879.8; 18-JUN-2009 09:28:27; Bright; 30.0; 69; 33Gam Dra ; 2.23; 3800;occ; 60; 0;38166
5; 3467.8; 18-JUN-2009 09:38:15; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38166
6; 3865.2; 18-JUN-2009 09:44:53; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38166
7; 3951.5; 18-JUN-2009 09:46:19; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38166
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5; 3467.1; 18-JUN-2009 11:18:50; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38167
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16; 7373.7; 18-JUN-2009 12:23:57; Dark ; 32.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 65; 0;38167
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8; 4413.8; 18-JUN-2009 13:15:13; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38168
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 6; 592.4; 20-JUN-2009 02:45:18; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;38191
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 8; 1314.6; 20-JUN-2009 02:57:20; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38191
 9; 1447.2; 20-JUN-2009 02:59:33; Bright; 35.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 71; 0;38191
 10; 1995.1; 20-JUN-2009 03:08:41; Bright; 29.5; 126; 60Bet Oph ; 2.77; 4250;occ; 59; 0;38191
 11; 2142.2; 20-JUN-2009 03:11:08; Bright; 29.5; 59; 55Alp Oph ; 2.08; 8900;occ; 59; 0;38191
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 13; 2868.5; 20-JUN-2009 03:23:14; Bright; 29.5; 69; 33Gam Dra ; 2.23; 3800;occ; 59; 0;38191
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 9; 334.9; 20-JUN-2009 04:21:36; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38192
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16; 2142.2; 20-JUN-2009 04:51:44; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38192
17; 2748.4; 20-JUN-2009 05:01:50; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38192
18; 2846.0; 20-JUN-2009 05:03:27; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38192
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12; 1228.2; 20-JUN-2009 06:17:06; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38193
13; 1315.5; 20-JUN-2009 06:18:33; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38193
14; 1448.0; 20-JUN-2009 06:20:45; Bright; 35.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 70; 0;38193
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16; 2141.8; 20-JUN-2009 06:32:19; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38193
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 3; 1449.6; 20-JUN-2009 19:45:35; Bright; 35.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 70; 0;38201
 4; 1993.8; 20-JUN-2009 19:54:39; Bright; 29.0; 126; 60Bet Oph ; 2.77; 4250;occ; 58; 0;38201
 5; 2140.0; 20-JUN-2009 19:57:05; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38201
 6; 2741.3; 20-JUN-2009 20:07:06; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38201
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11; 4271.0; 20-JUN-2009 20:32:36; Bright; 22.5; 73; 57Gam1And ; 2.26; 13100;occ; 45; 0;38201
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13; 4637.9; 20-JUN-2009 20:38:43; Dark ; 23.0; 50; 13Alp Ari ; 2.01; 4250;occ; 46; 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
 5; 467.2; 20-JUN-2009 21:09:48; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38202
 6; 605.8; 20-JUN-2009 21:12:07; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38202
 7; 1230.6; 20-JUN-2009 21:22:31; Dark ; 28.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 57; 0;38202
 8; 1318.3; 20-JUN-2009 21:23:59; Dark ; 28.0; 116; 19Del Sgr ; 2.70; 4100;occ; 56; 0;38202
 9; 1449.9; 20-JUN-2009 21:26:11; Bright; 35.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 70; 0;38202
10; 1993.6; 20-JUN-2009 21:35:14; Bright; 29.0; 126; 60Bet Oph ; 2.77; 4250;occ; 58; 0;38202
11; 2139.8; 20-JUN-2009 21:37:41; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38202
12; 2740.4; 20-JUN-2009 21:47:41; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38202
13; 2842.6; 20-JUN-2009 21:49:23; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38202
14; 3442.8; 20-JUN-2009 21:59:24; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38202
15; 3851.5; 20-JUN-2009 22:06:12; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38202
16; 3940.8; 20-JUN-2009 22:07:42; Bright; 26.0; 68; 18Alp Cas ; 2.22; 4500;occ; 52; 0;38202
17; 4415.2; 20-JUN-2009 22:15:36; Dark ; 27.5; 53; 43Bet And ; 2.05; 3300;occ; 55; 0;38202
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 3; -38.8; 20-JUN-2009 22:41:58; Dark ; 31.0; 84; Alp Phe ; 2.40; 4500;occ; 62; 0;38202
 4; 345.4; 20-JUN-2009 22:48:22; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38203
 5; 468.5; 20-JUN-2009 22:50:25; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38203
 6; 606.9; 20-JUN-2009 22:52:44; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38203
 7; 1231.0; 20-JUN-2009 23:03:08; Dark ; 28.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 57; 0;38203

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 13; 2842.0; 20-JUN-2009 23:29:59; Bright; 28.5; 130; 23Bet Dra ; 2.80; 5800;occ; 57; 0;38203
 14; 3442.4; 20-JUN-2009 23:39:59; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38203
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 17; 4415.4; 20-JUN-2009 23:56:12; Dark ; 27.0; 53; 43Bet And ; 2.05; 3300;occ; 54; 0;38203
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 5; -1400.0; 20-JUN-2009 07:13:53; Dark ; 23.5; 50; 13Alp Ari ; 2.01; 4250;occ; 47; 0;38193
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 11; 595.7; 20-JUN-2009 07:47:09; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38194
 12; 1228.5; 20-JUN-2009 07:57:42; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38194
 13; 1315.6; 20-JUN-2009 07:59:09; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38194
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 3; 2746.9; 20-JUN-2009 08:23:00; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38194
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 5; 3448.4; 20-JUN-2009 08:34:42; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38194
 6; 3854.8; 20-JUN-2009 08:41:28; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38194
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 13; 5990.3; 20-JUN-2009 09:17:04; Dark ; 31.0; 84; Alp Phe ; 2.40; 4500;occ; 62; 0;38194
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 16; 6632.6; 20-JUN-2009 09:27:46; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38194
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 18; 7351.4; 20-JUN-2009 09:39:45; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38194
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 16; 6634.0; 20-JUN-2009 11:08:23; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38195
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3; 2840.0; 21-JUN-2009 12:54:44; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38211

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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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 3; 474.5; 30-JUN-2009 02:28:57; Dark ; 56.0; 63; Bet Gru ; 2.15; 2800;occ; 112; 0;38334
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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
 6; 1478.7; 30-JUN-2009 02:45:42; Bright; 46.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 92; 0;38334
 7; 2239.3; 30-JUN-2009 02:58:22; Bright; 50.5; 168; 17Zet Aql ; 2.99; 11000;occ; 101; 0;38334
 8; 2658.2; 30-JUN-2009 03:05:21; Bright; 41.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 83; 0;38334
 9; 2934.2; 30-JUN-2009 03:09:57; Bright; 46.0; 144; 18Del Cyg ; 2.86; 11000;occ; 92; 0;38334
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 8; 475.5; 30-JUN-2009 04:09:34; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38335
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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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 6; -542.9; 30-JUN-2009 05:33:12; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38335
 7; 87.2; 30-JUN-2009 05:43:42; Dark ; 51.0; 84; Alp Phe ; 2.40; 4500;occ; 102; 0;38336
 8; 476.7; 30-JUN-2009 05:50:12; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;38336
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11; 1478.8; 30-JUN-2009 06:06:54; Bright; 45.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 91; 0;38336
12; 2238.2; 30-JUN-2009 06:19:33; Bright; 50.5; 168; 17Zet Aql ; 2.99; 11000;occ; 101; 0;38336
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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
 9; 4424.7; 30-JUN-2009 22:01:23; Dark ; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;38345
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3; 487.2; 01-JUL-2009 00:16:57; Dark ; 63.5; 63; Bet Gru ; 2.15; 2800;occ; 127; 0;38347
4; 603.1; 01-JUL-2009 00:18:53; Dark ; 54.0; 31; Alp Gru ; 1.73; 15200;occ; 108; 0;38347
5; 1481.0; 01-JUL-2009 00:33:31; Bright; 44.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 89; 0;38347
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8; 2922.6; 01-JUL-2009 00:57:33; Bright; 50.0; 144; 18Del Cyg ; 2.86; 11000;occ; 100; 0;38347
9; 3343.6; 01-JUL-2009 01:04:34; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38347
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12; 4266.8; 01-JUL-2009 01:19:57; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38347
13; 4424.9; 01-JUL-2009 01:22:35; Dark ; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;38347
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