

GOMOS Daily Report 12-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	15JUN2009 04:36:25
Data source version	GOMOS/5.00
Start time of products	12JUN2009 00:07:40
Stop time of products	12JUN2009 20:32:58
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)

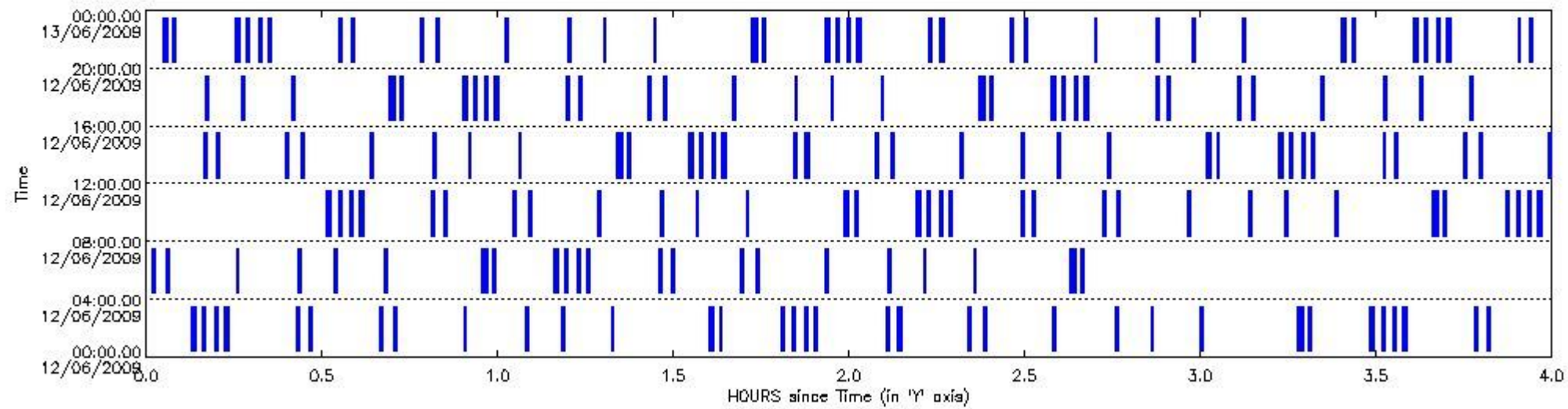
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

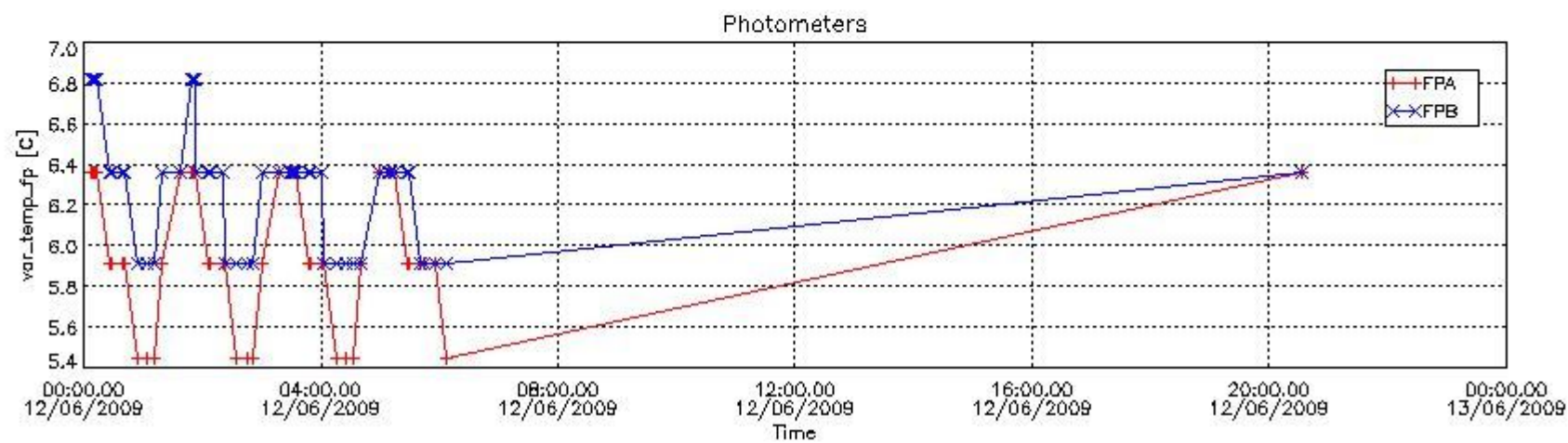
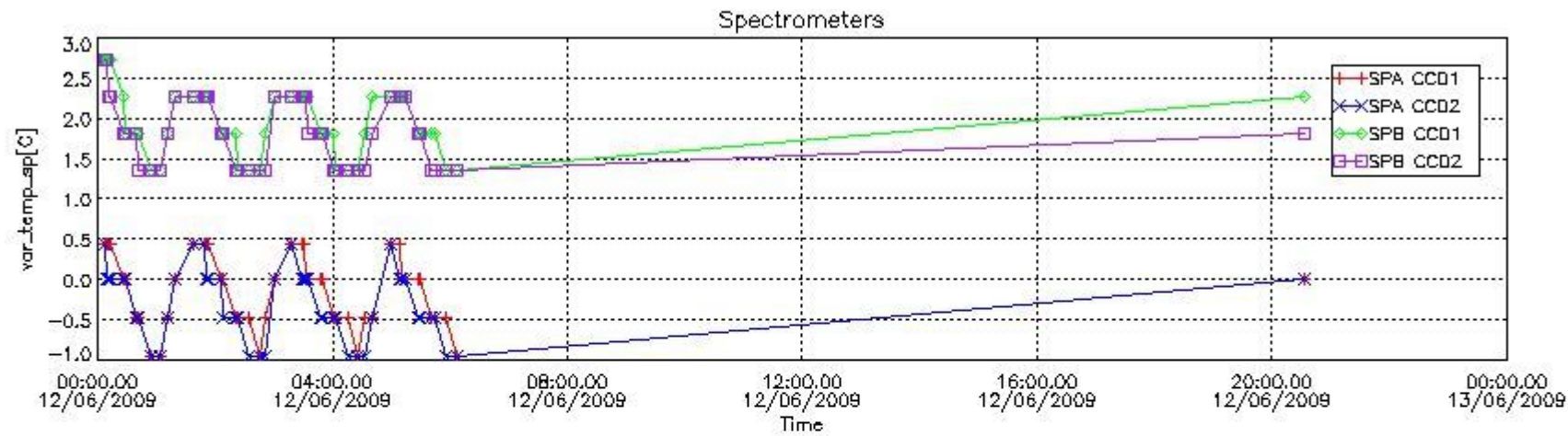
No missing products.

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_1PNPDE20090612_000740_000000452079_00446_38075_5505.N1	12-JUN-2009 00:07:40	Dark	45.000	18	24Alp PsA	1.1660	9700.0	90	38075	No
2	GOM_TRA_1PNPDE20090612_000938_000000342079_00446_38075_5506.N1	12-JUN-2009 00:09:38	Dark	34.000	63	Bet Gru	2.1500	2800.0	68	38075	No
3	GOM_TRA_1PNPDE20090612_001140_000000352079_00446_38075_5507.N1	12-JUN-2009 00:11:40	Dark	34.500	31	Alp Gru	1.7340	15200.	69	38075	No
4	GOM_TRA_1PNPDE20090612_001315_000000432079_00446_38075_5508.N1	12-JUN-2009 00:13:15	Straylight	42.500	172	Gam Gru	3.0030	13100.	85	38075	No
5	GOM_TRA_1PNPDE20090612_002541_000000312079_00446_38075_5509.N1	12-JUN-2009 00:25:41	Twilight_stray	30.500	38	20Eps Sgr	1.8360	11000.	61	38075	No
6	GOM_TRA_1PNPDE20090612_002740_000000362079_00446_38075_5510.N1	12-JUN-2009 00:27:40	Twilight_stray	36.000	57	34Sig Sgr	2.0660	26000.	72	38075	No
7	GOM_TRA_1PNPDE20090612_003940_000000342079_00446_38075_5511.N1	12-JUN-2009 00:39:40	Bright	33.500	126	60Bet Oph	2.7700	4250.0	67	38075	No
8	GOM_TRA_1PNPDE20090612_004216_000000332079_00446_38075_5512.N1	12-JUN-2009 00:42:16	Bright	33.000	59	55Alp Oph	2.0800	8900.0	66	38075	No
9	GOM_TRA_1PNPDE20090612_005409_000000302079_00446_38075_5513.N1	12-JUN-2009 00:54:09	Bright	29.500	130	23Bet Dra	2.7990	5800.0	59	38075	No
10	GOM_TRA_1PNPDE20090612_010447_000000322079_00446_38075_5514.N1	12-JUN-2009 01:04:47	Twilight_stray	31.500	89	5Alp Cep	2.4510	8000.0	63	38075	No
11	GOM_TRA_1PNPDE20090612_011053_000000262079_00446_38075_5515.N1	12-JUN-2009 01:10:53	Twilight_stray	26.000	74	11Bet Cas	2.2680	6600.0	52	38075	No
12	GOM_TRA_1PNPDE20090612_011925_000000242079_00446_38075_5516.N1	12-JUN-2009 01:19:25	Twilight_stray	24.000	53	43Bet And	2.0480	3300.0	48	38075	No

13	GOM_TRA_1PNPDE20090612_013748_000000322079_00446_38075_5643.N1	12-JUN-2009 01:37:48	Dark	31.500	52	16Bet Cet	2.0370	4500.0	63	38075	No
14	GOM_TRA_1PNPDE20090612_014818_000000452079_00447_38076_5644.N1	12-JUN-2009 01:48:18	Dark	45.000	18	24Alp PsA	1.1660	9700.0	90	38076	No
15	GOM_TRA_1PNPDE20090612_015015_000000352079_00447_38076_5645.N1	12-JUN-2009 01:50:15	Dark	34.500	63	Bet Gru	2.1500	2800.0	69	38076	No
16	GOM_TRA_1PNPDE20090612_015217_000000352079_00447_38076_5646.N1	12-JUN-2009 01:52:17	Dark	35.000	31	Alp Gru	1.7340	15200.	70	38076	No
17	GOM_TRA_1PNPDE20090612_015352_000000432079_00447_38076_5647.N1	12-JUN-2009 01:53:52	Straylight	42.500	172	Gam Gru	3.0030	13100.	85	38076	No
18	GOM_TRA_1PNPDE20090612_020617_000000312079_00447_38076_5648.N1	12-JUN-2009 02:06:17	Twilight	30.500	38	20Eps Sgr	1.8360	11000.	61	38076	No
19	GOM_TRA_1PNPDE20090612_020817_000000362079_00447_38076_5649.N1	12-JUN-2009 02:08:17	Twilight	36.000	57	34Sig Sgr	2.0660	26000.	72	38076	No
20	GOM_TRA_1PNPDE20090612_022016_000000342079_00447_38076_5650.N1	12-JUN-2009 02:20:16	Bright	33.500	126	60Bet Oph	2.7700	4250.0	67	38076	No
21	GOM_TRA_1PNPDE20090612_022251_000000332079_00447_38076_5651.N1	12-JUN-2009 02:22:51	Bright	33.000	59	55Alp Oph	2.0800	8900.0	66	38076	No
22	GOM_TRA_1PNPDE20090612_023444_000000302079_00447_38076_5652.N1	12-JUN-2009 02:34:44	Bright	30.000	130	23Bet Dra	2.7990	5800.0	60	38076	No
23	GOM_TRA_1PNPDE20090612_024522_000000312079_00447_38076_5653.N1	12-JUN-2009 02:45:22	Twilight	30.500	89	5Alp Cep	2.4510	8000.0	61	38076	No
24	GOM_TRA_1PNPDE20090612_025129_000000262079_00447_38076_5795.N1	12-JUN-2009 02:51:29	Twilight	26.000	74	11Bet Cas	2.2680	6600.0	52	38076	No
25	GOM_TRA_1PNPDE20090612_030001_000000252079_00447_38076_5796.N1	12-JUN-2009 03:00:01	Twilight	24.500	53	43Bet And	2.0480	3300.0	49	38076	No
26	GOM_TRA_1PNPDE20090612_031825_000000322079_00447_38076_5797.N1	12-JUN-2009 03:18:25	Dark	31.500	52	16Bet Cet	2.0370	4500.0	63	38076	No
27	GOM_TRA_1PNPDE20090612_032855_000000452079_00448_38077_5798.N1	12-JUN-2009 03:28:55	Dark	45.000	18	24Alp PsA	1.1660	9700.0	90	38077	No
28	GOM_TRA_1PNPDE20090612_033052_000000342079_00448_38077_5799.N1	12-JUN-2009 03:30:52	Dark	34.000	63	Bet Gru	2.1500	2800.0	68	38077	No
29	GOM_TRA_1PNPDE20090612_033254_000000352079_00448_38077_5800.N1	12-JUN-2009 03:32:54	Dark	34.500	31	Alp Gru	1.7340	15200.	69	38077	No
30	GOM_TRA_1PNPDE20090612_033430_000000432079_00448_38077_5801.N1	12-JUN-2009 03:34:30	Straylight	42.500	172	Gam Gru	3.0030	13100.	85	38077	No
31	GOM_TRA_1PNPDE20090612_034654_000000302079_00448_38077_5802.N1	12-JUN-2009 03:46:54	Twilight	30.000	38	20Eps Sgr	1.8360	11000.	60	38077	No
32	GOM_TRA_1PNPDE20090612_034853_000000362079_00448_38077_5803.N1	12-JUN-2009 03:48:53	Twilight	36.000	57	34Sig Sgr	2.0660	26000.	72	38077	No
33	GOM_TRA_1PNPDE20090612_040051_000000342079_00448_38077_5804.N1	12-JUN-2009 04:00:51	Bright	33.500	126	60Bet Oph	2.7700	4250.0	67	38077	No
34	GOM_TRA_1PNPDE20090612_040327_000000332079_00448_38077_5805.N1	12-JUN-2009 04:03:27	Bright	33.000	59	55Alp Oph	2.0800	8900.0	66	38077	No
35	GOM_TRA_1PNPDE20090612_041520_000000302079_00448_38077_5806.N1	12-JUN-2009 04:15:20	Bright	29.500	130	23Bet Dra	2.7990	5800.0	59	38077	No
36	GOM_TRA_1PNPDE20090612_042558_000000312079_00448_38077_5807.N1	12-JUN-2009 04:25:58	Twilight	30.500	89	5Alp Cep	2.4510	8000.0	61	38077	No
37	GOM_TRA_1PNPDE20090612_043204_000000262079_00448_38077_5989.N1	12-JUN-2009 04:32:04	Twilight	26.000	74	11Bet Cas	2.2680	6600.0	52	38077	No
38	GOM_TRA_1PNPDE20090612_044037_000000252079_00448_38077_5990.N1	12-JUN-2009 04:40:37	Twilight	24.500	53	43Bet And	2.0480	3300.0	49	38077	No
39	GOM_TRA_1PNPDE20090612_045902_000000322079_00448_38077_5991.N1	12-JUN-2009 04:59:02	Dark	31.500	52	16Bet Cet	2.0370	4500.0	63	38077	No
40	GOM_TRA_1PNPDE20090612_050933_000000452079_00449_38078_5992.N1	12-JUN-2009 05:09:33	Dark	45.000	18	24Alp PsA	1.1660	9700.0	90	38078	No
41	GOM_TRA_1PNPDE20090612_051129_000000342079_00449_38078_5993.N1	12-JUN-2009 05:11:29	Dark	34.000	63	Bet Gru	2.1500	2800.0	68	38078	No
42	GOM_TRA_1PNPDE20090612_051331_000000352079_00449_38078_5994.N1	12-JUN-2009 05:13:31	Dark	34.500	31	Alp Gru	1.7340	15200.	69	38078	No
43	GOM_TRA_1PNPDE20090612_051507_000000432079_00449_38078_5995.N1	12-JUN-2009 05:15:07	Straylight	42.500	172	Gam Gru	3.0030	13100.	85	38078	No
44	GOM_TRA_1PNPDE20090612_052731_000000302079_00449_38078_5996.N1	12-JUN-2009 05:27:31	Twilight	30.000	38	20Eps Sgr	1.8360	11000.	60	38078	No
45	GOM_TRA_1PNPDE20090612_052930_000000362079_00449_38078_5997.N1	12-JUN-2009 05:29:30	Twilight	36.000	57	34Sig Sgr	2.0660	26000.	72	38078	No
46	GOM_TRA_1PNPDE20090612_054127_000000332079_00449_38078_5998.N1	12-JUN-2009 05:41:27	Bright	33.000	126	60Bet Oph	2.7700	4250.0	66	38078	No
47	GOM_TRA_1PNPDE20090612_054402_000000332079_00449_38078_5999.N1	12-JUN-2009 05:44:02	Bright	33.000	59	55Alp Oph	2.0800	8900.0	66	38078	No
48	GOM_TRA_1PNPDE20090612_055555_000000302079_00449_38078_6000.N1	12-JUN-2009 05:55:55	Bright	30.000	130	23Bet Dra	2.7990	5800.0	60	38078	No
49	GOM_TRA_1PNPDE20090612_060633_000000312079_00449_38078_6001.N1	12-JUN-2009 06:06:33	Twilight	30.500	89	5Alp Cep	2.4510	8000.0	61	38078	No
50	GOM_TRA_1PNPDE20090612_203258_000000302079_00458_38087_6459.N1	12-JUN-2009 20:32:58	Twilight	30.000	38	20Eps Sgr	1.8360	11000.	60	38087	No

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



4. Overview of dark signal processing per product

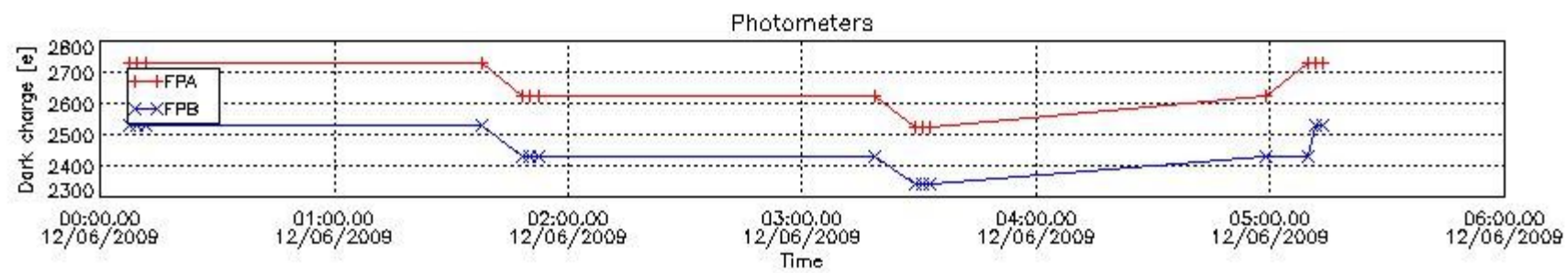
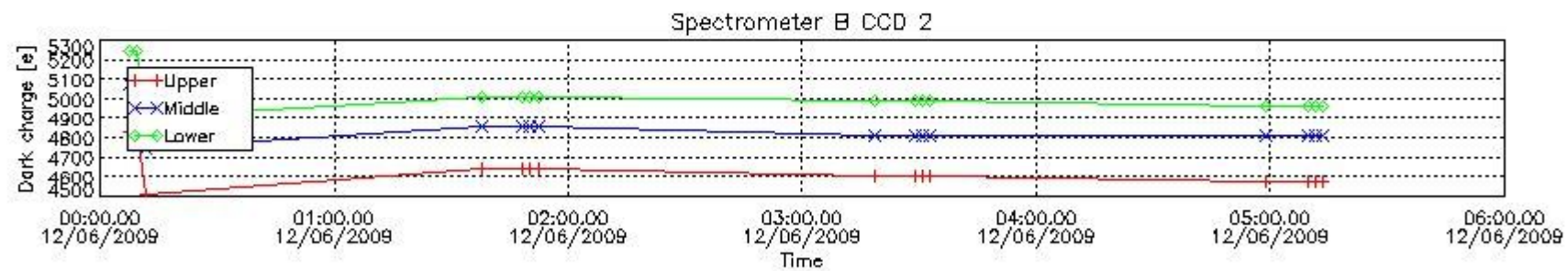
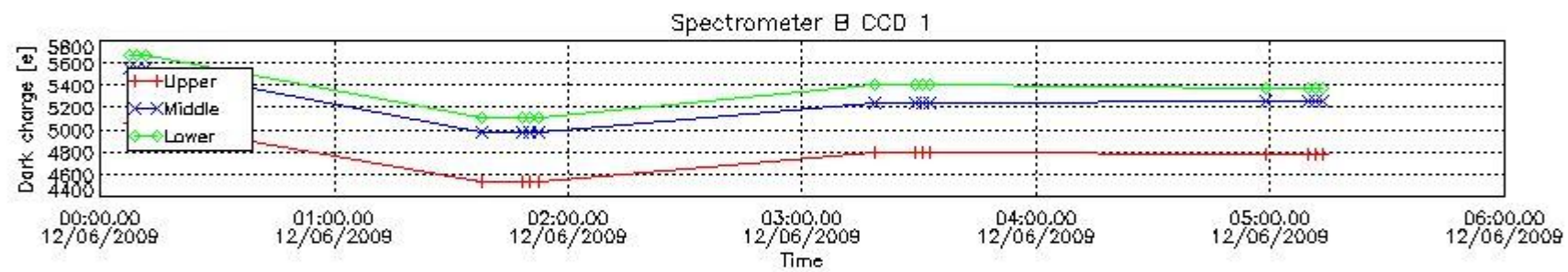
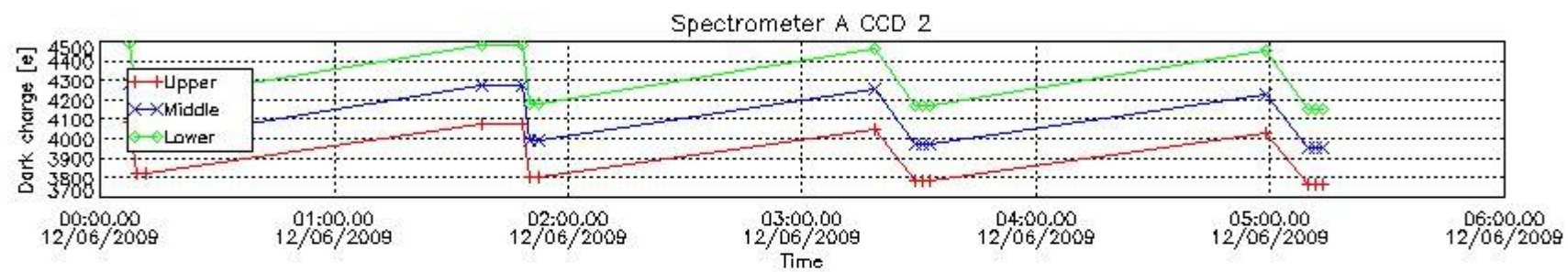
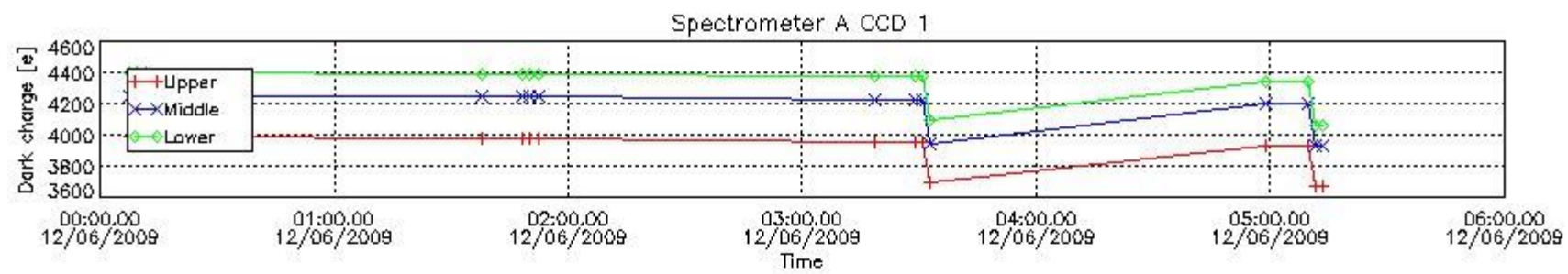
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

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

4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20090612_203258_000000302079_00458_38087_6459.N1	DC map used

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



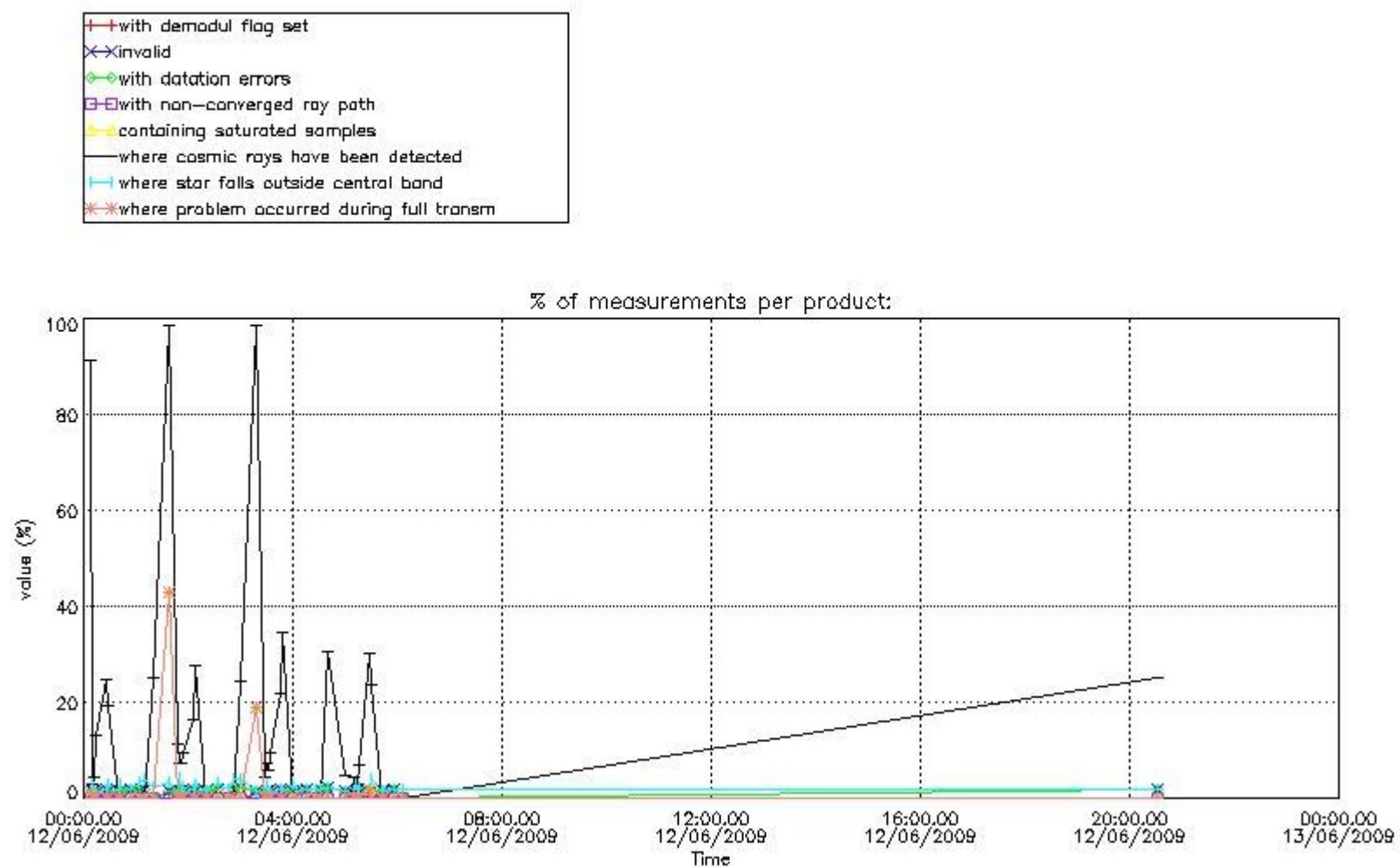
5. Demodulation flag and quality information monitoring

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

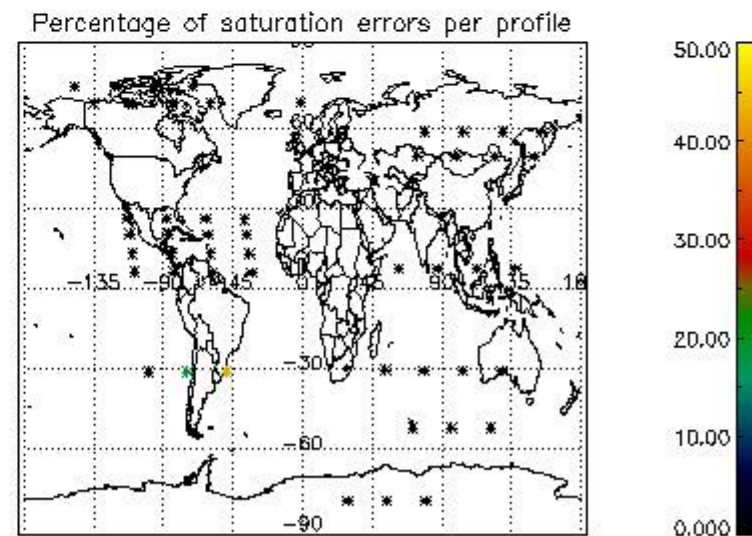
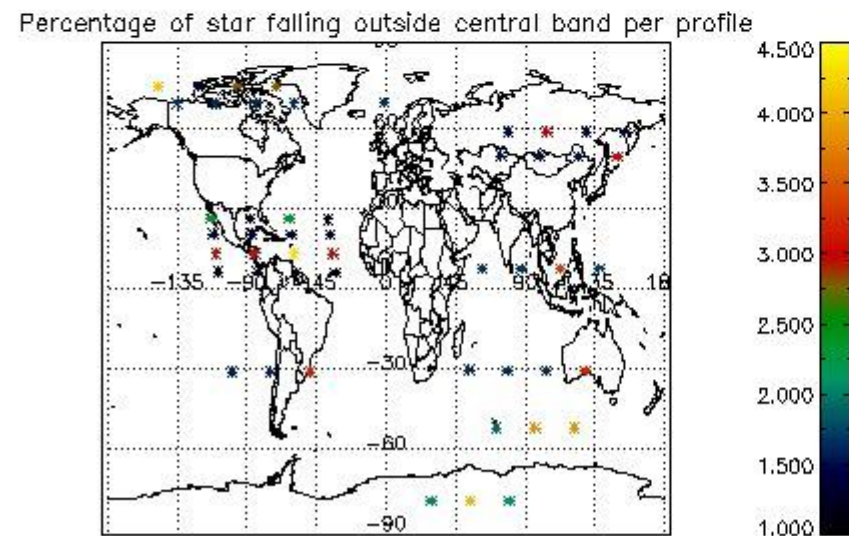
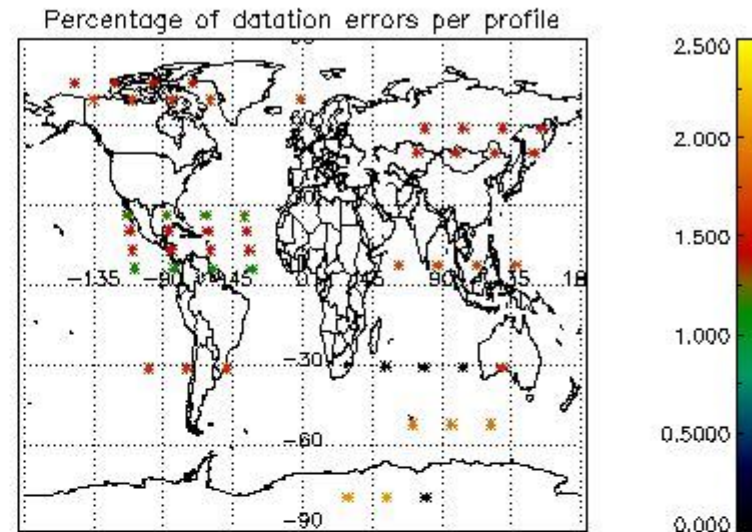
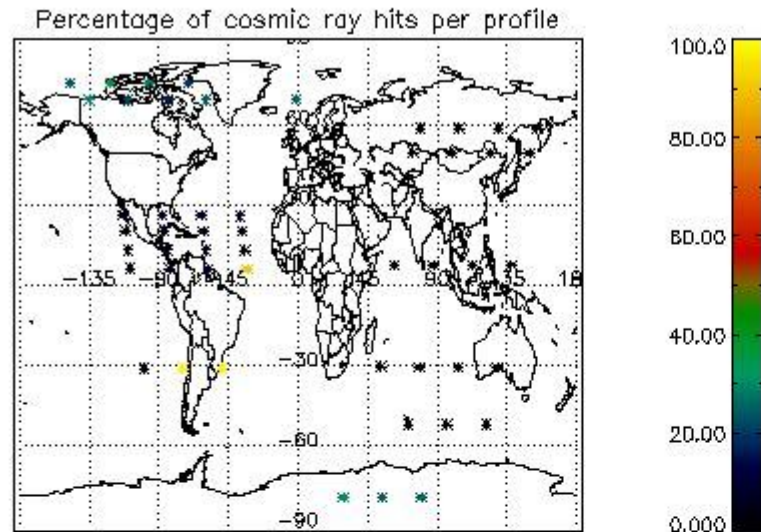
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	42.0000 %
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)



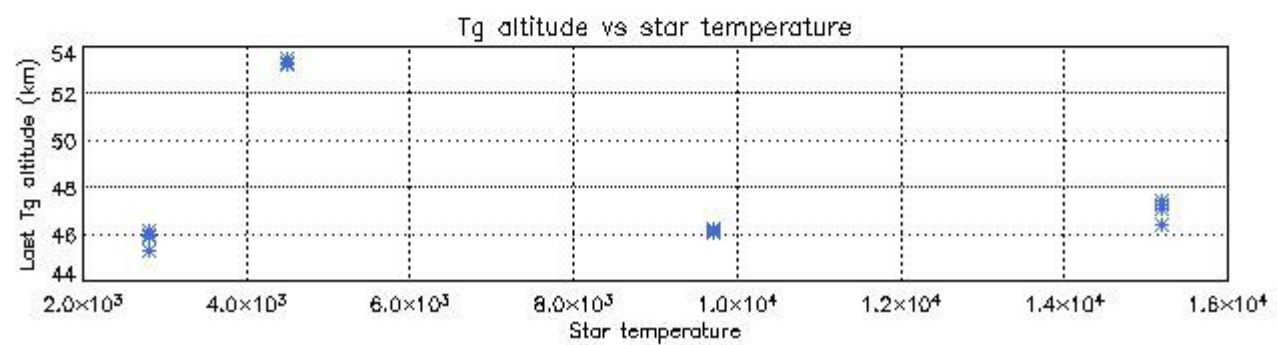
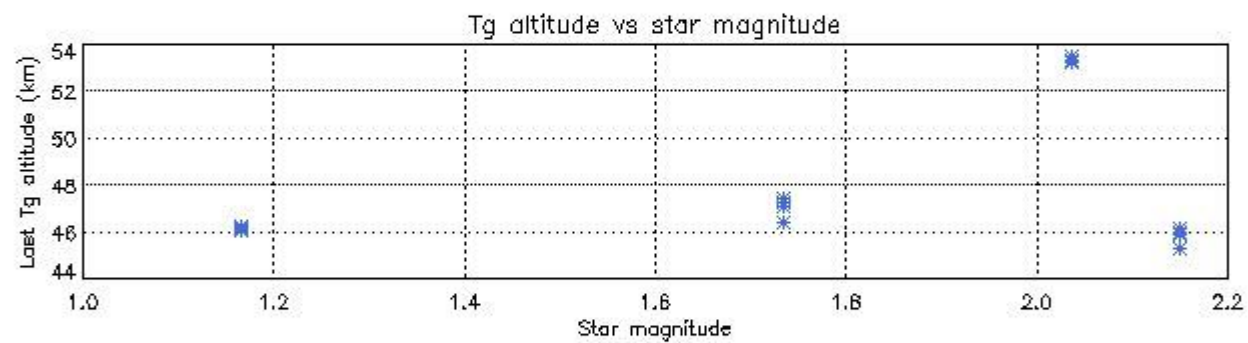
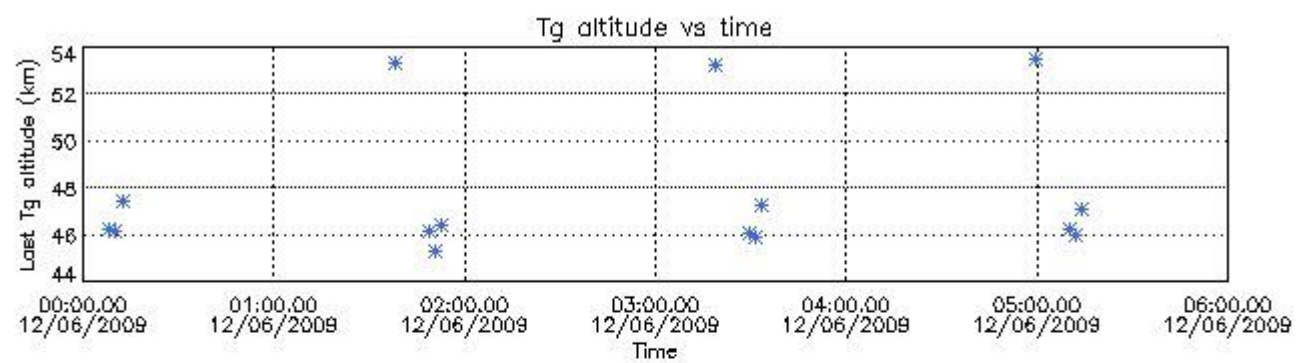
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	47.734	48.732	NaN
St. deviation:	2.9634	0.69091	NaN
Maximum:	53.496	49.894	NaN
Minimum:	45.298	47.556	NaN
Number of data:	15.000	12.000	NaN

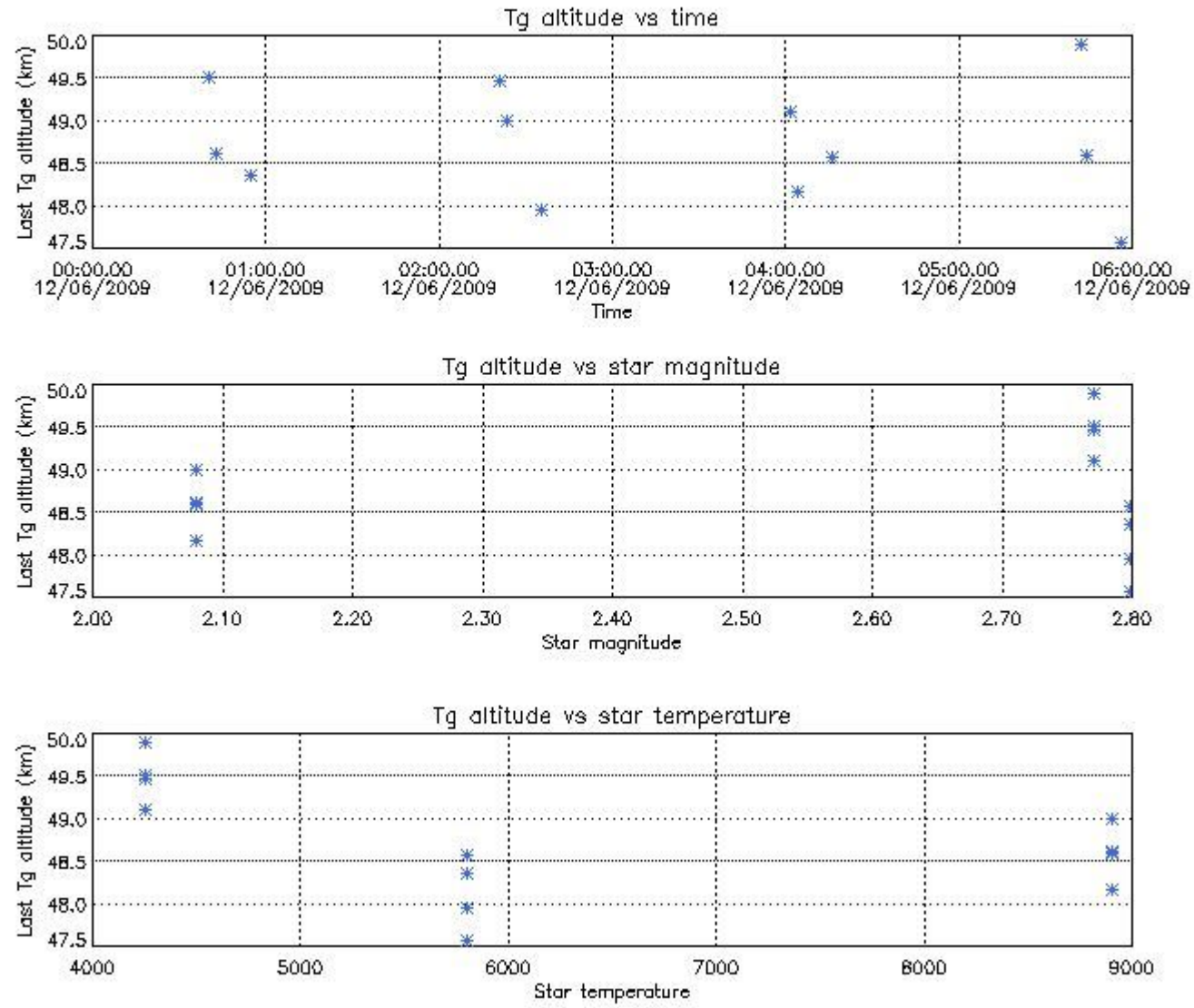
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

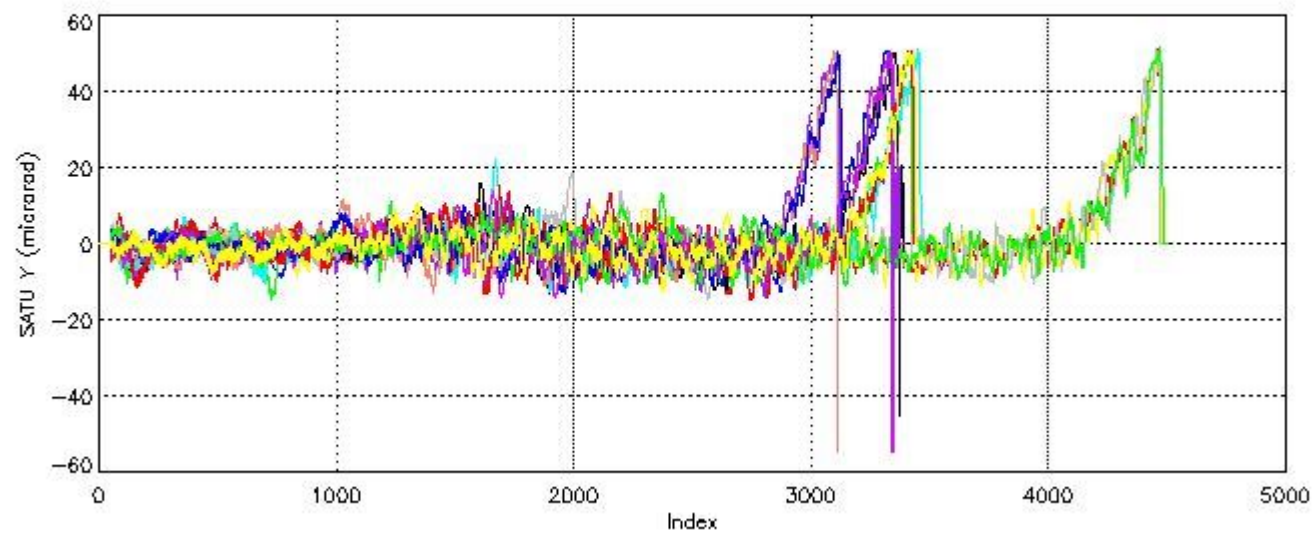
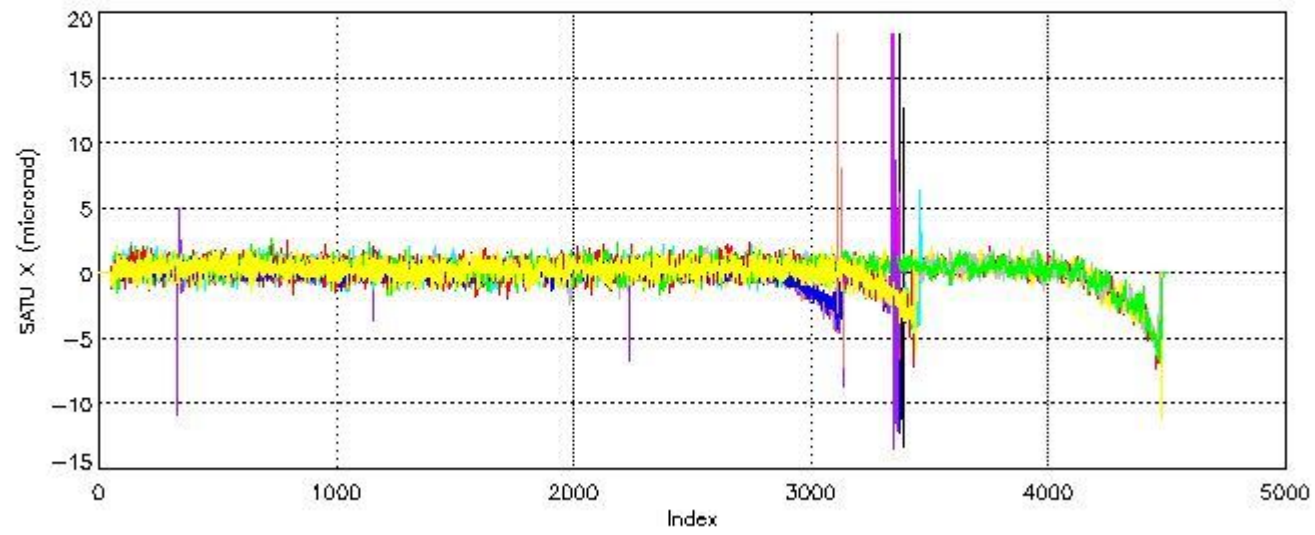


7. Star Acquisition and Tracking Unit (SATU)

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:	0.33307	-0.98012	0.38476	-0.72153
St. deviation:	0.39728	2.5950	0.77406	2.4575
Maximum:	4.9000	11.500	3.4000	8.2000
Minimum:	-10.900	-15.000	-2.6000	-11.200

Number of data:	18700.	18700.	12300.	12300.
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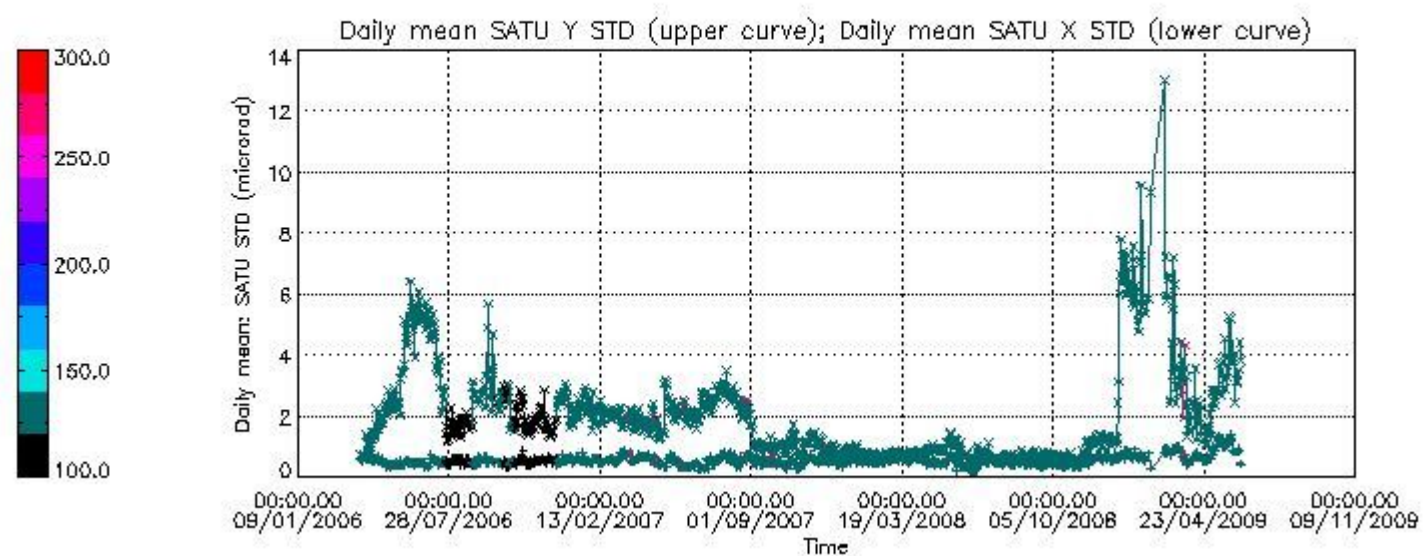
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

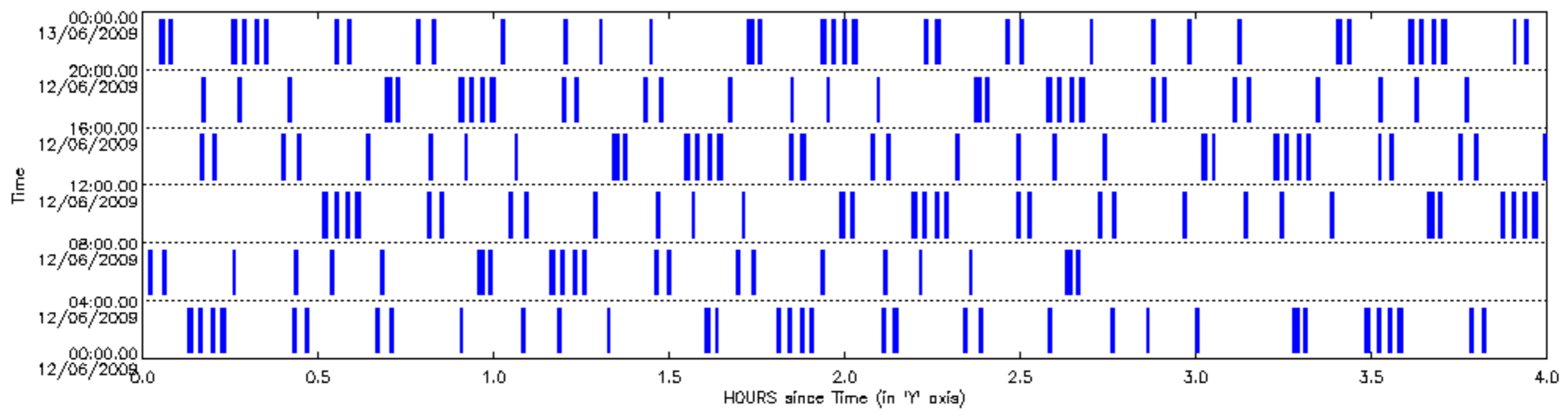
Lower curve: STD of SATU X axis

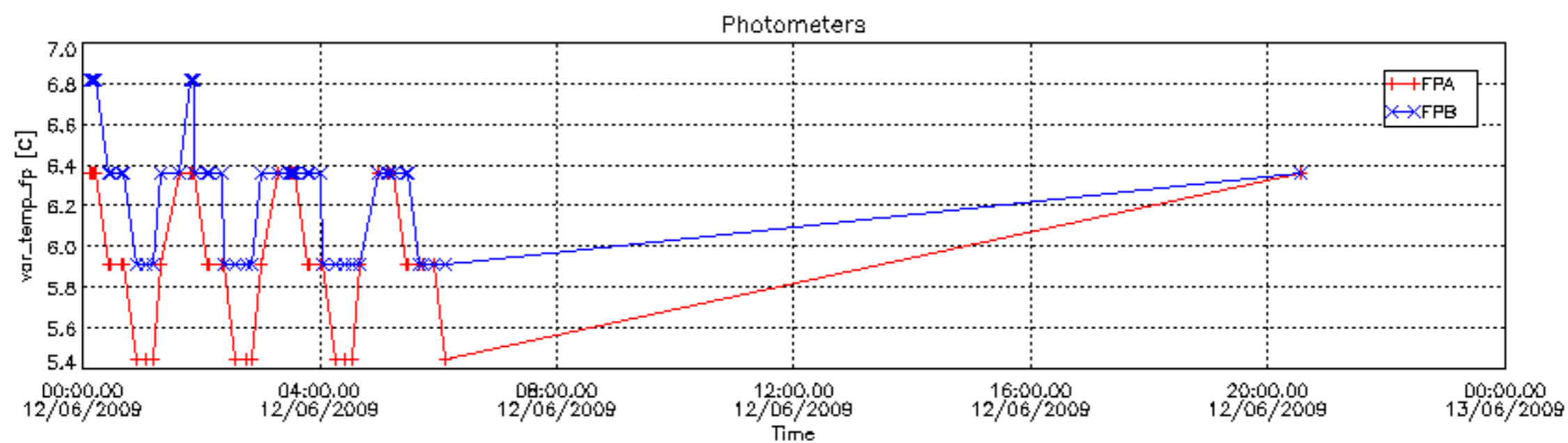
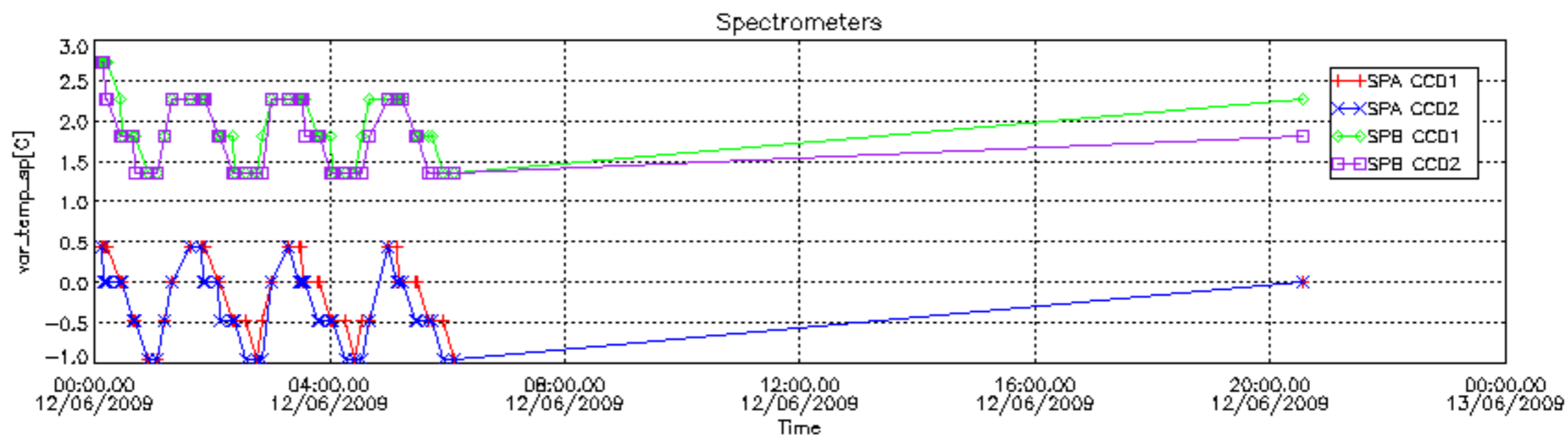


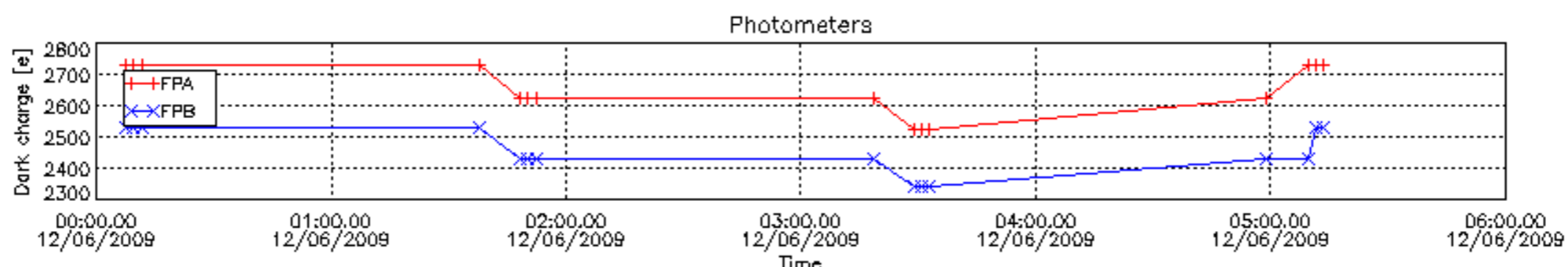
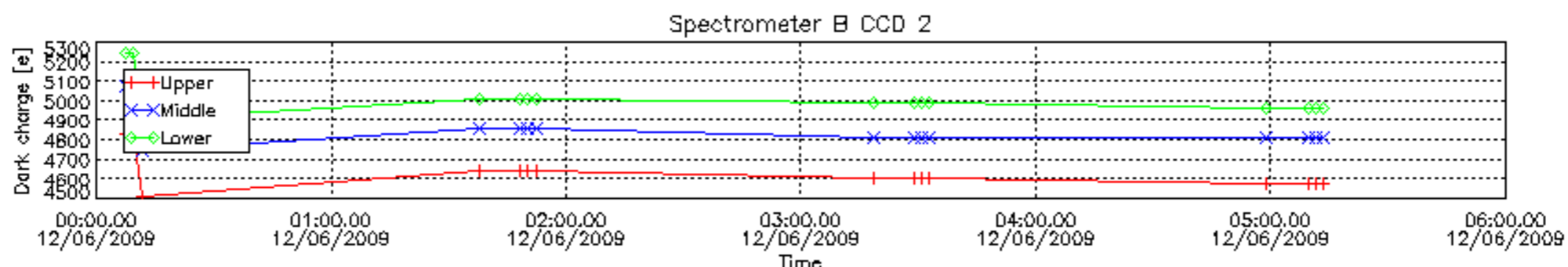
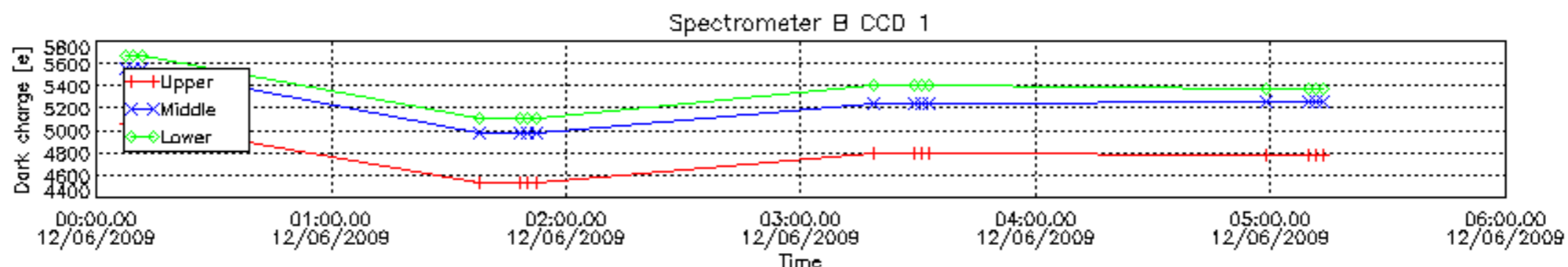
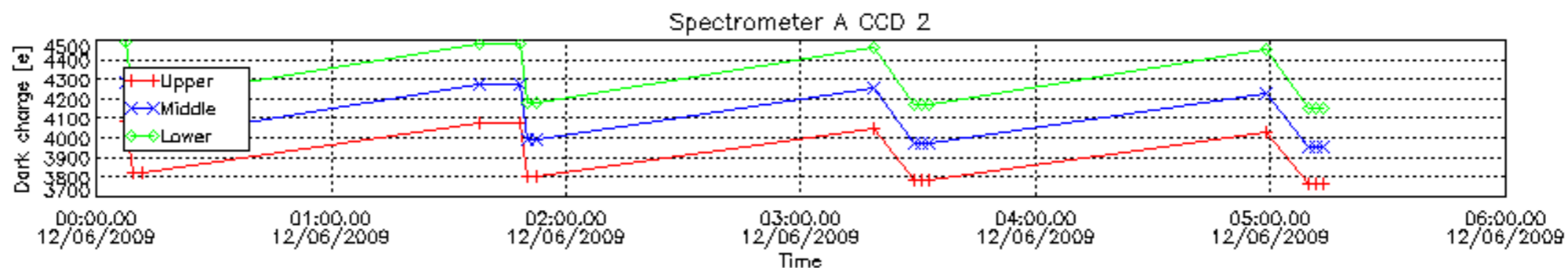
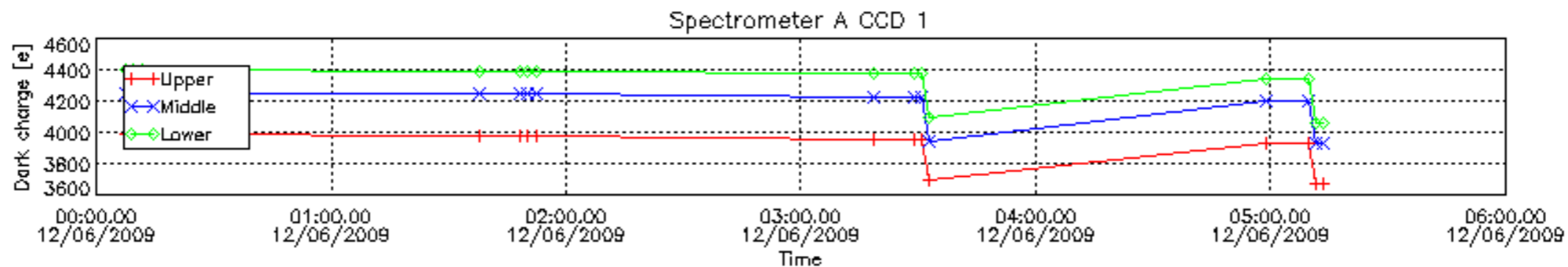
8. Auxiliary Data Files used for the production reported in section 2.4

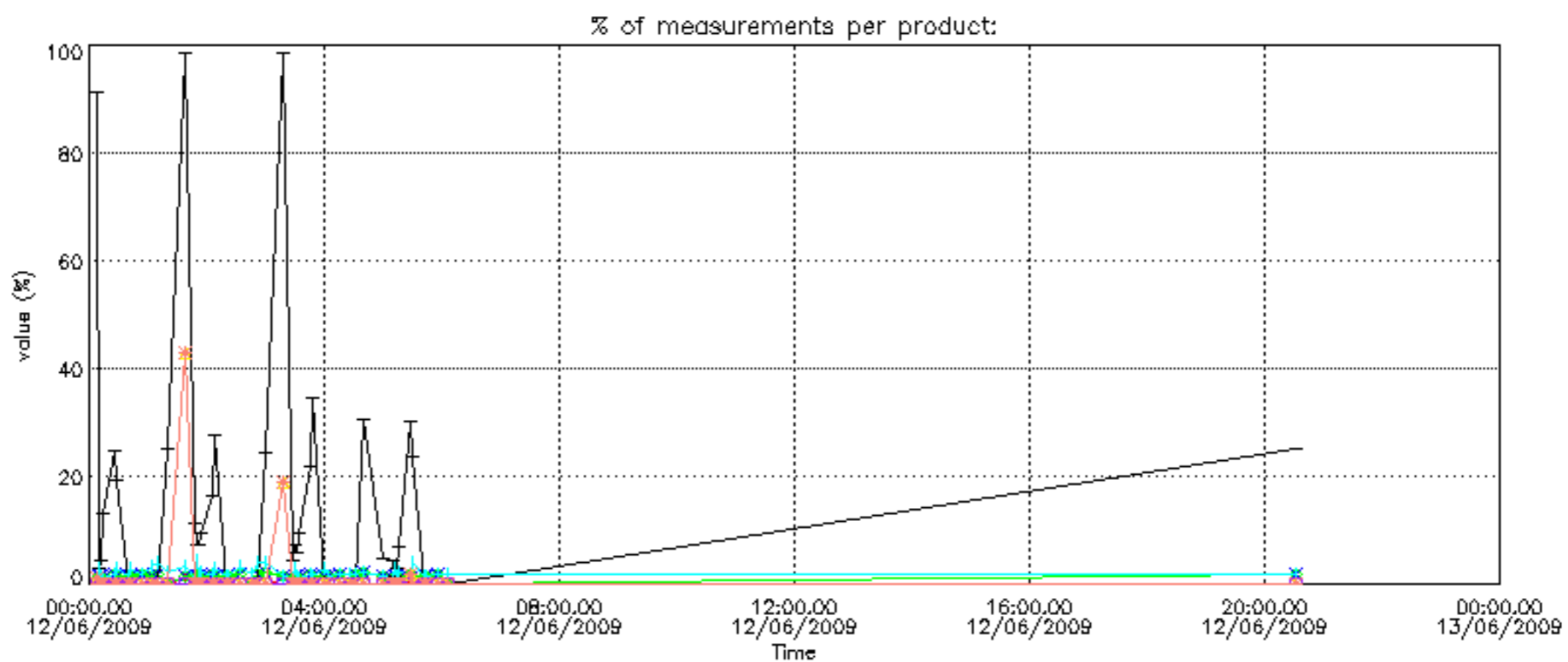
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	12-JUN-2009 00:07:40
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090608_084241_20090606_000000_20100101_000000	1	12-JUN-2009 00:07:40
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	12-JUN-2009 00:07:40
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	12-JUN-2009 00:07:40
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	12-JUN-2009 00:07:40
ECMWF_FILE	AUX_ECF_AXNECM20090611_064114_20090611_210000_20090612_090000	1	12-JUN-2009 00:07:40
ECMWF_FILE	AUX_ECF_AXNECM20090611_184112_20090612_030000_20090612_150000	37	12-JUN-2009 04:32:04
ECMWF_FILE	AUX_ECF_AXNECM20090612_064112_20090612_150000_20090613_030000	50	12-JUN-2009 20:32:58
OPTIONAL_ECMWF_FILE	MISSING	1	12-JUN-2009 00:07:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090611_221102_000057382079_00444_38073_8133.N1	1	12-JUN-2009 00:07:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090611_235159_000057382079_00445_38074_8134.N1	13	12-JUN-2009 01:37:48
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090612_024719_000054192079_00447_38076_8136.N1	24	12-JUN-2009 02:51:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090612_202438_000041442079_00458_38087_8138.N1	50	12-JUN-2009 20:32:58

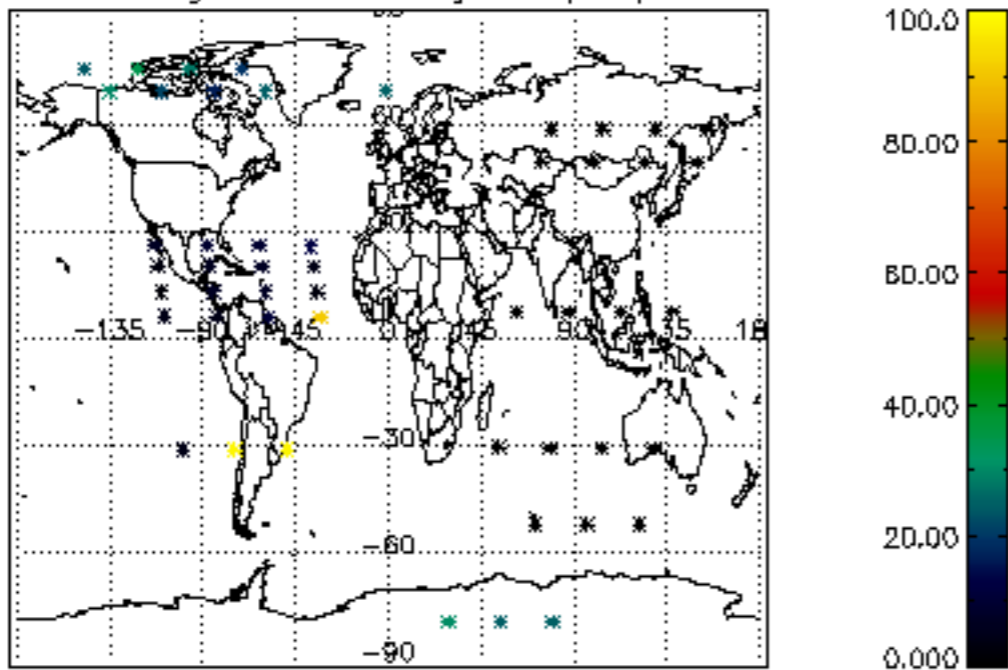




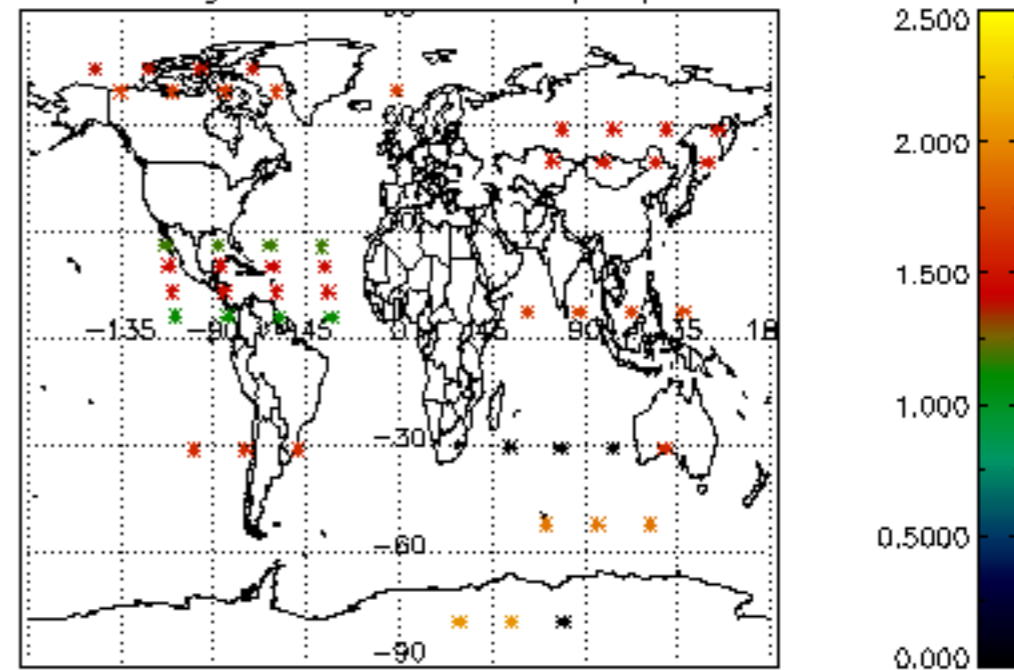




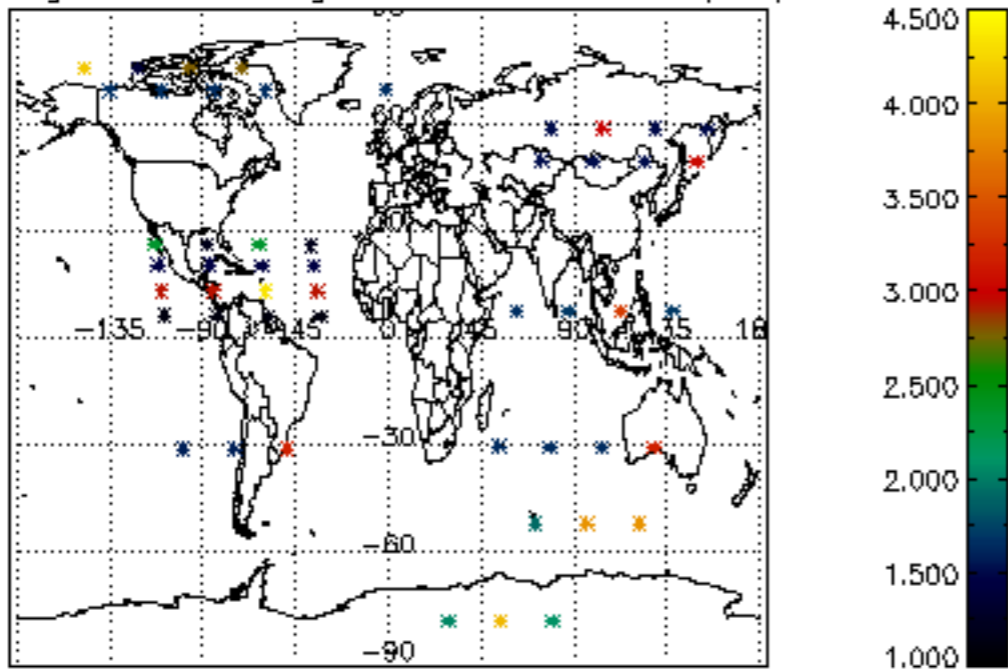
Percentage of cosmic ray hits per profile



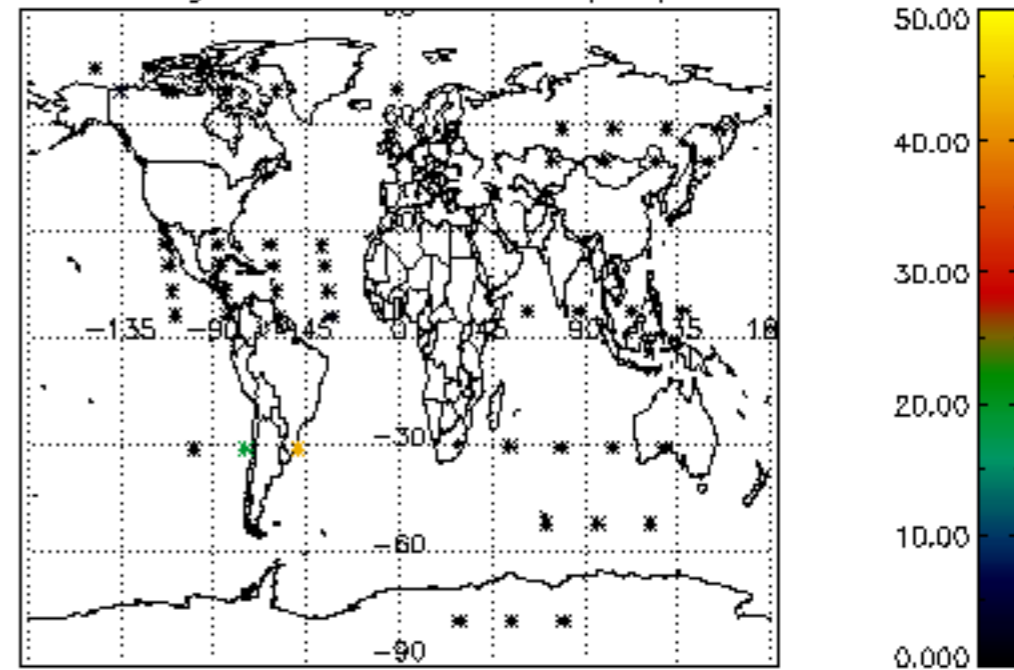
Percentage of datation errors per profile



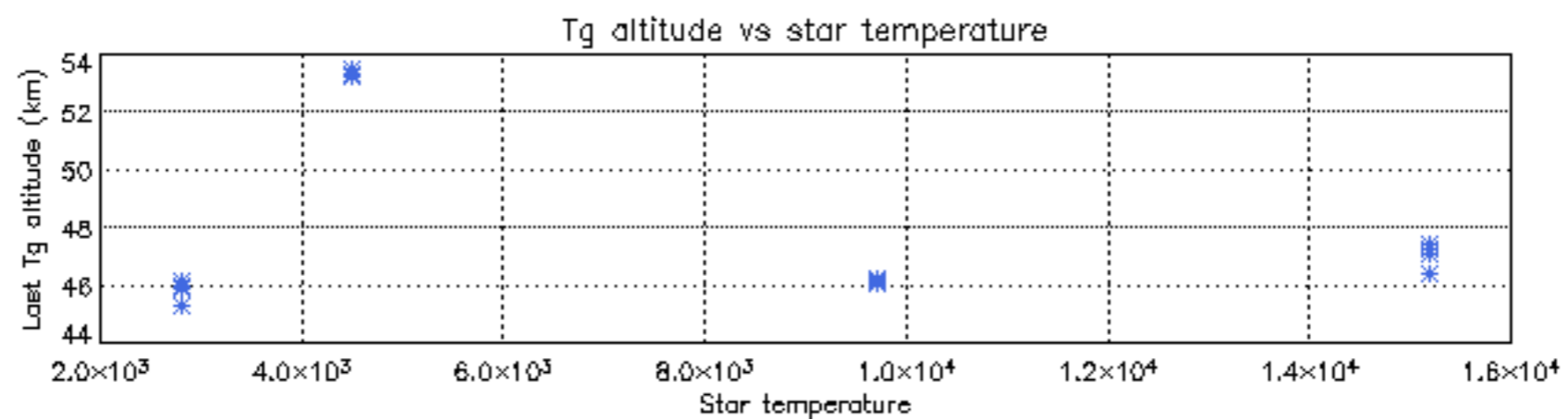
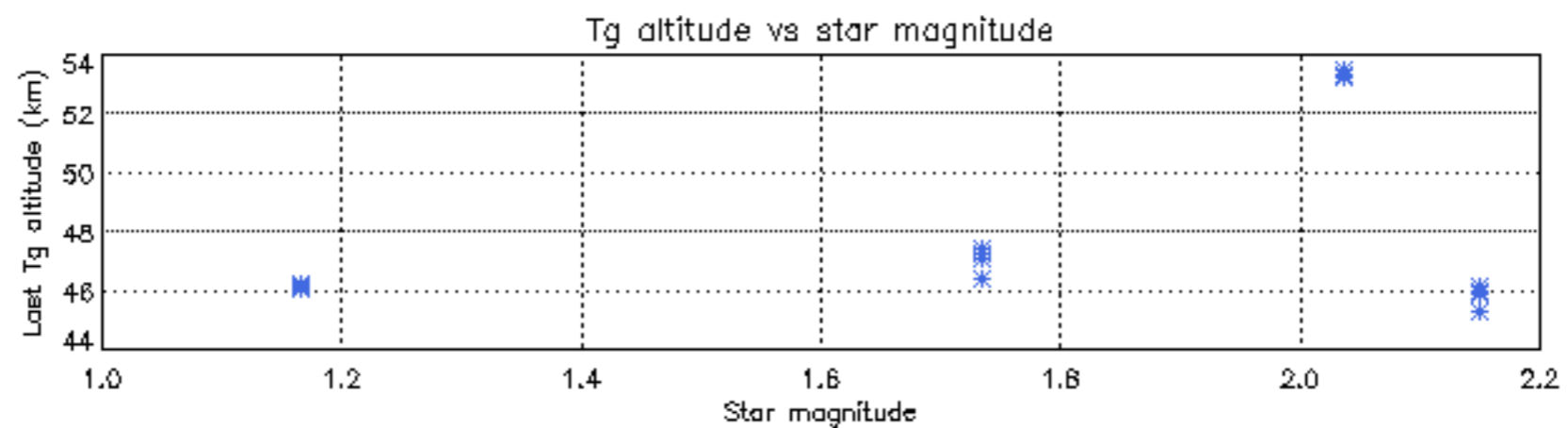
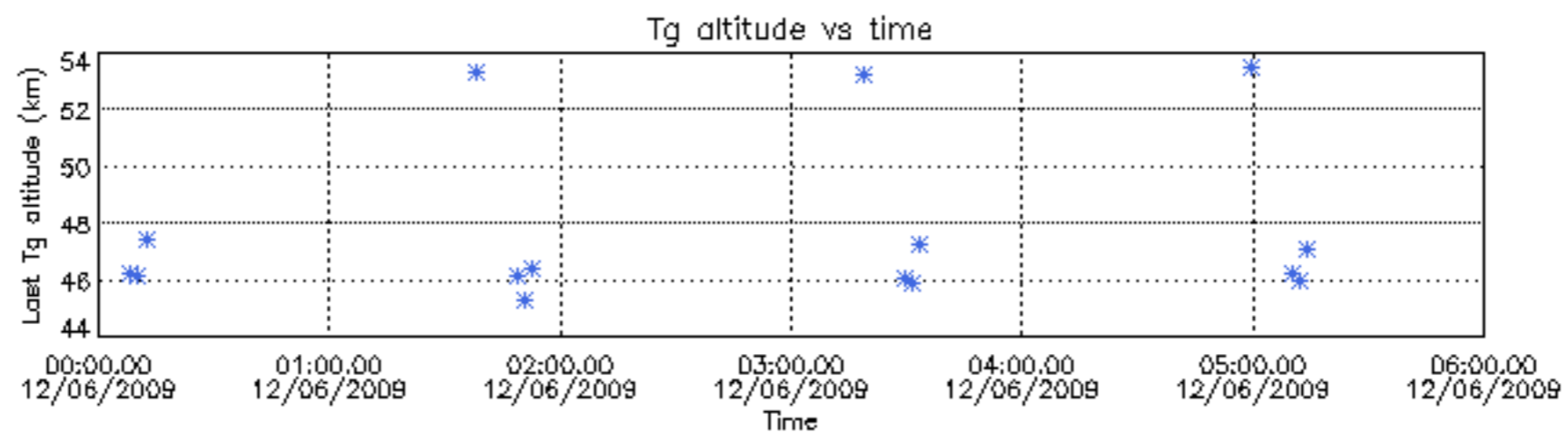
Percentage of star falling outside central band per profile



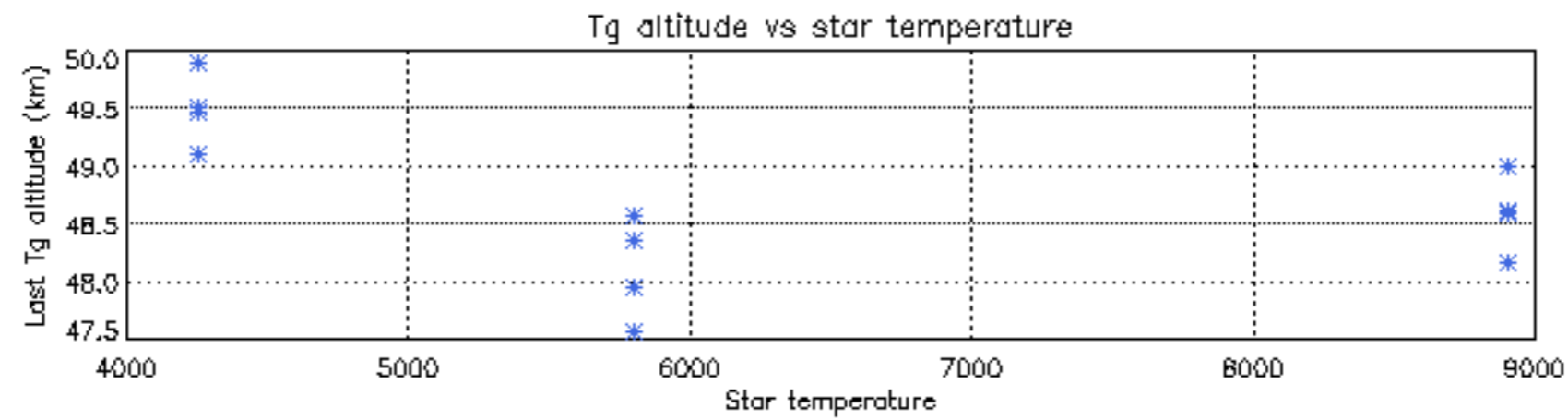
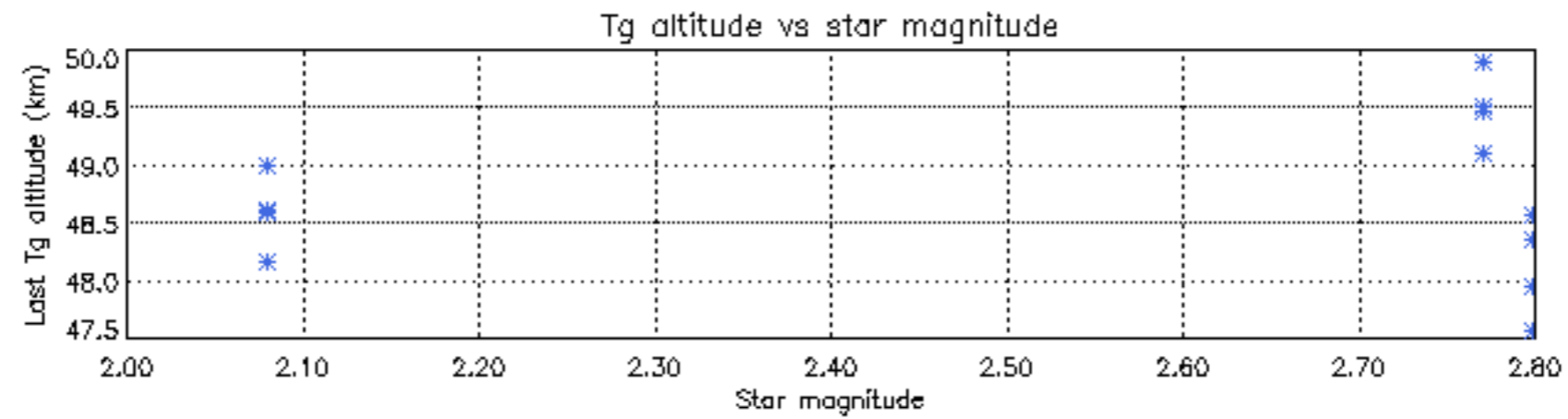
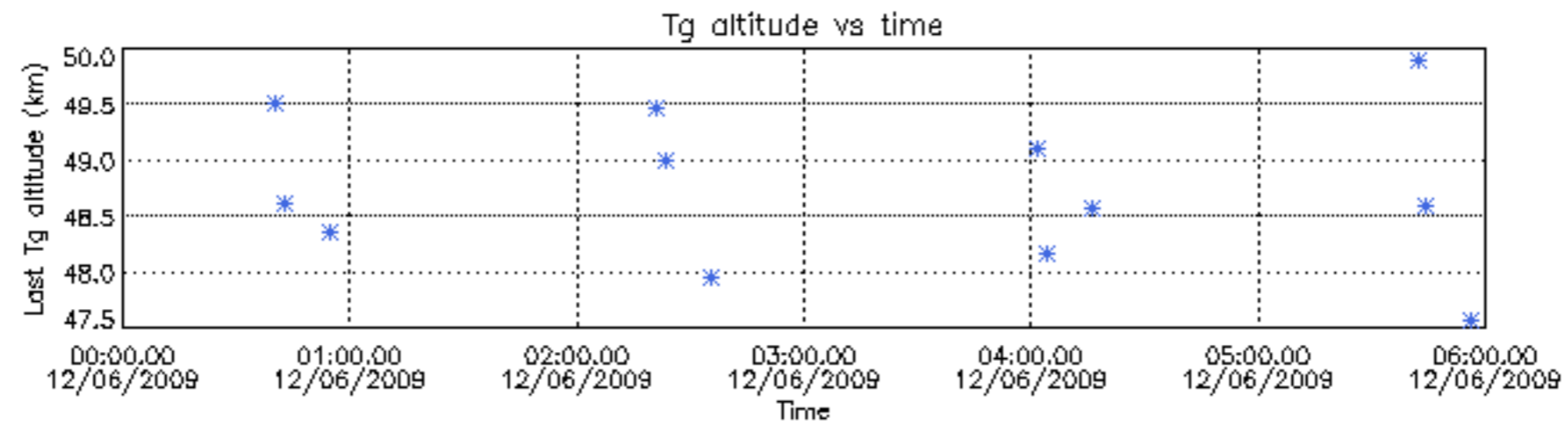
Percentage of saturation errors per profile

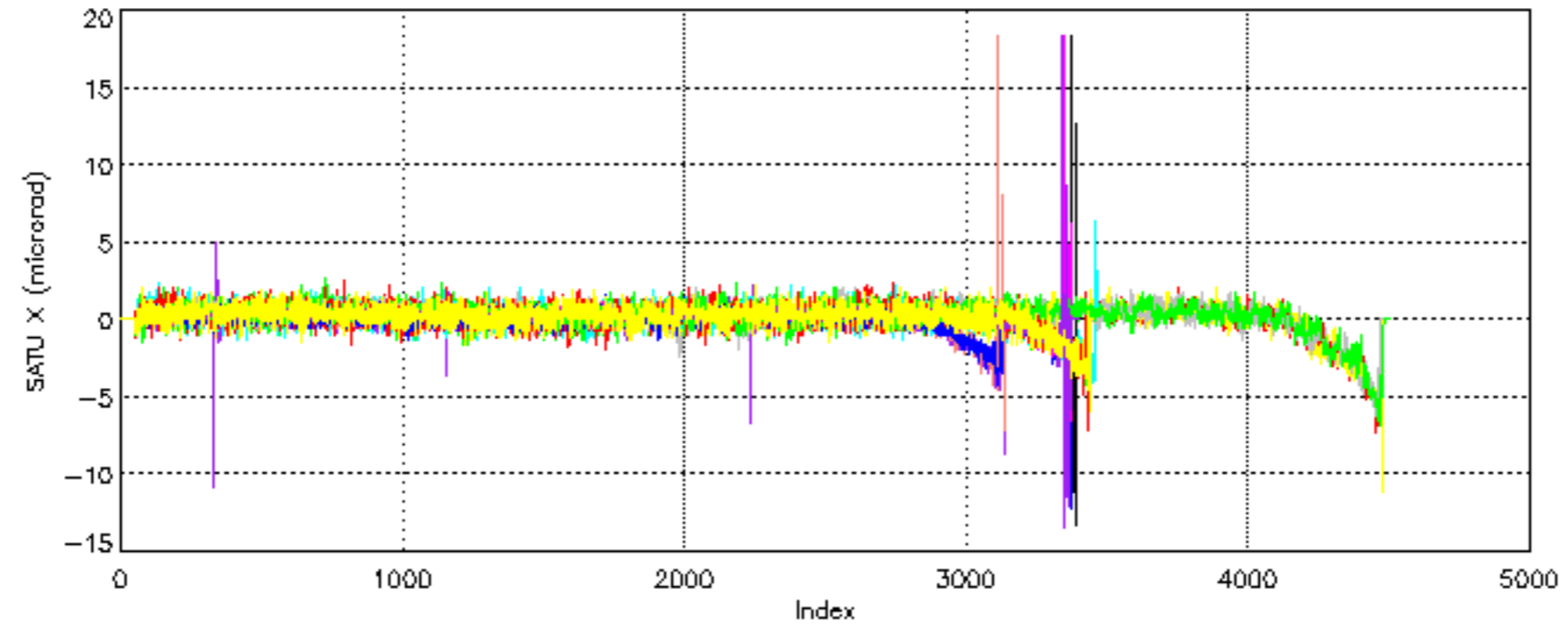


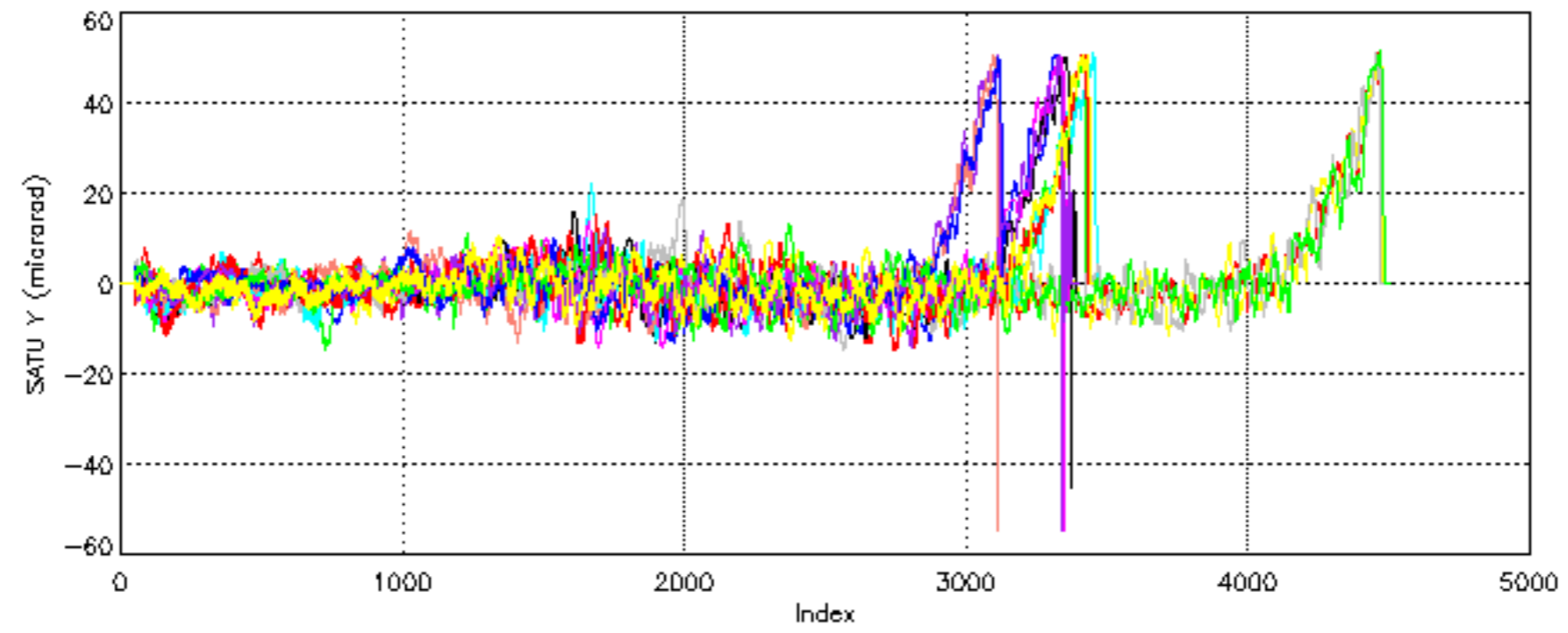
Tangent altitude at which the star is lost

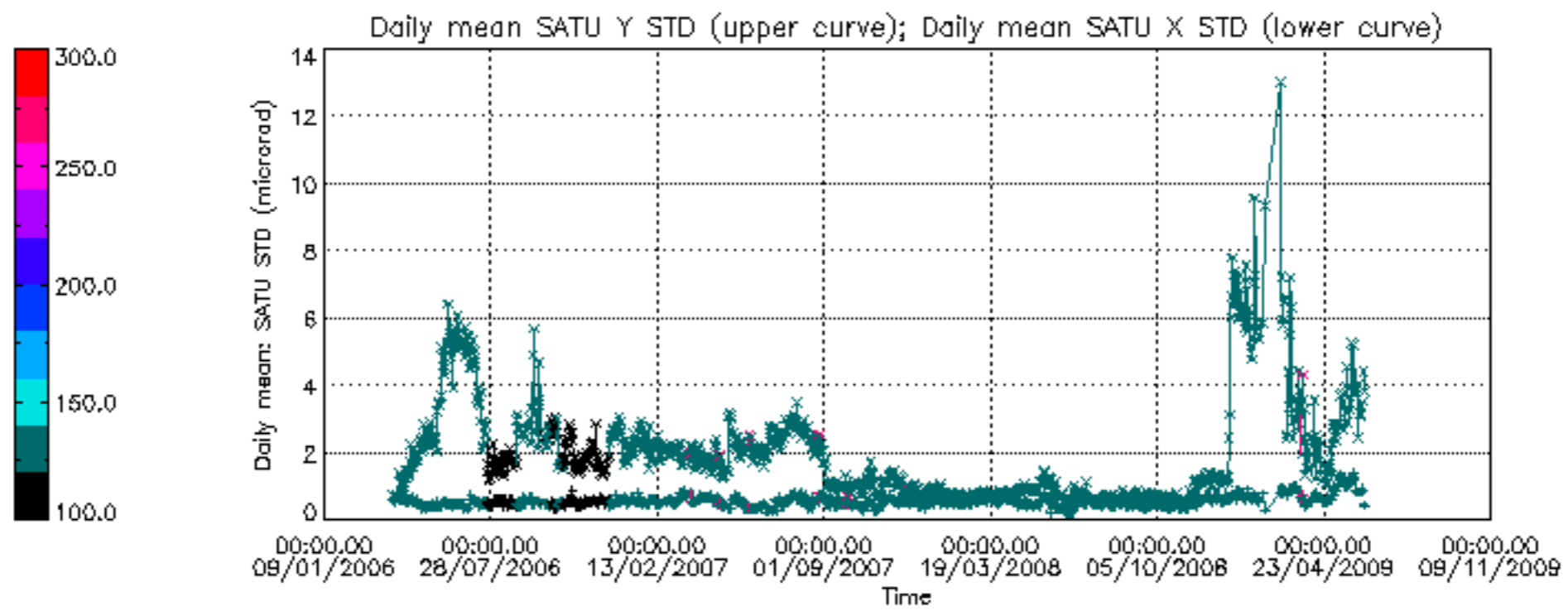


Tangent altitude at which the star is lost










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7; 3604.8; 03-JUN-2009 19:15:23; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;37957
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9; 4564.3; 03-JUN-2009 19:31:22; Dark ; 28.0; 58; 21Alp And ; 2.07; 11000;occ; 56; 0;37957
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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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8; 1152.8; 07-JUN-2009 04:43:51; Dark ; 31.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 63; 0;38006
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4; 1158.1; 08-JUN-2009 00:51:08; Dark ; 31.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 63; 0;38018
5; 1277.4; 08-JUN-2009 00:53:07; Dark ; 38.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 76; 0;38018
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6; 3559.3; 08-JUN-2009 19:57:44; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38029
7; 3908.3; 08-JUN-2009 20:03:33; Bright; 25.0; 74; 11Bet Cas ; 2.27; 6600;occ; 50; 0;38029
8; 4404.1; 08-JUN-2009 20:11:49; Dark ; 23.5; 53; 43Bet And ; 2.05; 3300;occ; 47; 0;38029
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5; 1165.2; 09-JUN-2009 02:00:14; Dark ; 31.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 63; 0;38033
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7; 1165.6; 09-JUN-2009 03:40:50; Dark ; 31.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 63; 0;38034
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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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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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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
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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
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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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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
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6; 427.0; 11-JUN-2009 10:48:17; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 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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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
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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
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11; 2891.3; 11-JUN-2009 23:13:33; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 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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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
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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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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
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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
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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
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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
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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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4; 221.0; 12-JUN-2009 01:50:15; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38076
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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
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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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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
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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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3; 2887.1; 12-JUN-2009 15:59:28; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38084
4; 3523.2; 12-JUN-2009 16:10:04; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38084
5; 3892.8; 12-JUN-2009 16:16:14; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38084
6; 4408.3; 12-JUN-2009 16:24:49; Dark ; 25.0; 53; 43Bet And ; 2.05; 3300;occ; 50; 0;38084
7; 5407.7; 12-JUN-2009 16:41:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38084
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9; 6154.3; 12-JUN-2009 16:53:55; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;38084
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5; 494.6; 14-JUN-2009 22:39:21; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38117
6; 1230.4; 14-JUN-2009 22:51:37; Dark ; 33.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 67; 0;38117
7; 1319.5; 14-JUN-2009 22:53:06; Dark ; 34.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 69; 0;38117
8; 2010.3; 14-JUN-2009 23:04:37; Bright; 32.0; 126; 60Bet Oph ; 2.77; 4250;occ; 64; 0;38117
9; 2162.4; 14-JUN-2009 23:07:09; Bright; 31.5; 59; 55Alp Oph ; 2.08; 8900;occ; 63; 0;38117
10; 2872.8; 14-JUN-2009 23:19:00; Bright; 29.0; 130; 23Bet Dra ; 2.80; 5800;occ; 58; 0;38117
11; 3500.8; 14-JUN-2009 23:29:28; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38117
12; 3882.1; 14-JUN-2009 23:35:49; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38117
13; 3964.1; 14-JUN-2009 23:37:11; Bright; 25.0; 68; 18Alp Cas ; 2.22; 4500;occ; 50; 0;38117
14; 4410.4; 14-JUN-2009 23:44:37; Dark ; 25.0; 53; 43Bet And ; 2.05; 3300;occ; 50; 0;38117

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2; -1626.1; 14-JUN-2009 06:58:37; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38107
3; -604.6; 14-JUN-2009 07:15:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38107
4; -494.6; 14-JUN-2009 07:17:29; Dark ; 32.5; 52; 16Bet Cet ; 2.04; 4500;occ; 65; 0;38107
5; 252.0; 14-JUN-2009 07:29:55; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38108
6; 374.9; 14-JUN-2009 07:31:58; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38108
7; 482.6; 14-JUN-2009 07:33:46; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38108
8; 1197.3; 14-JUN-2009 07:45:41; Dark ; 29.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 59; 0;38108
9; 1288.1; 14-JUN-2009 07:47:12; Dark ; 30.0; 116; 19Del Sgr ; 2.70; 4100;occ; 60; 0;38108

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2; 2165.8; 14-JUN-2009 08:01:49; Bright; 31.5; 59; 55Alp Oph ; 2.08; 8900;occ; 63; 0;38108
3; 2876.5; 14-JUN-2009 08:13:40; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38108
4; 3507.1; 14-JUN-2009 08:24:11; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38108
5; 3885.2; 14-JUN-2009 08:30:29; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38108
6; 4409.8; 14-JUN-2009 08:39:13; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38108
7; 5432.4; 14-JUN-2009 08:56:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38108
8; 5542.2; 14-JUN-2009 08:58:06; Dark ; 32.5; 52; 16Bet Cet ; 2.04; 4500;occ; 65; 0;38108
9; 6289.0; 14-JUN-2009 09:10:32; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38108
10; 6411.8; 14-JUN-2009 09:12:35; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38108
11; 6519.4; 14-JUN-2009 09:14:23; Dark ; 43.0; 172; Gam Gru ; 3.00; 13100;occ; 86; 0;38108
12; 7233.6; 14-JUN-2009 09:26:17; Dark ; 29.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 59; 0;38108
13; 7324.4; 14-JUN-2009 09:27:48; Dark ; 29.5; 116; 19Del Sgr ; 2.70; 4100;occ; 59; 0;38108

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2; 2165.2; 14-JUN-2009 09:42:25; Bright; 32.0; 59; 55Alp Oph ; 2.08; 8900;occ; 64; 0;38109
3; 2876.2; 14-JUN-2009 09:54:16; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38109
4; 3506.5; 14-JUN-2009 10:04:46; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38109
5; 3884.9; 14-JUN-2009 10:11:04; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38109
6; 4409.9; 14-JUN-2009 10:19:49; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38109
7; 5433.4; 14-JUN-2009 10:36:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38109
8; 5542.9; 14-JUN-2009 10:38:42; Dark ; 33.0; 52; 16Bet Cet ; 2.04; 4500;occ; 66; 0;38109
9; 6289.9; 14-JUN-2009 10:51:09; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38109
10; 6412.8; 14-JUN-2009 10:53:12; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38109
11; 6520.9; 14-JUN-2009 10:55:00; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38109
12; 7235.2; 14-JUN-2009 11:06:55; Dark ; 28.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 57; 0;38109
13; 7324.7; 14-JUN-2009 11:08:24; Dark ; 30.0; 116; 19Del Sgr ; 2.70; 4100;occ; 60; 0;38109

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2; 2165.0; 14-JUN-2009 11:23:00; Bright; 32.0; 59; 55Alp Oph ; 2.08; 8900;occ; 64; 0;38110
3; 2875.7; 14-JUN-2009 11:34:51; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38110
4; 3505.8; 14-JUN-2009 11:45:21; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38110
5; 3884.5; 14-JUN-2009 11:51:40; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38110
6; 4410.0; 14-JUN-2009 12:00:25; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38110
7; 5434.4; 14-JUN-2009 12:17:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38110
8; 5544.1; 14-JUN-2009 12:19:19; Dark ; 33.0; 52; 16Bet Cet ; 2.04; 4500;occ; 66; 0;38110
9; 6291.0; 14-JUN-2009 12:31:46; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38110
10; 6414.4; 14-JUN-2009 12:33:50; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38110
11; 6522.7; 14-JUN-2009 12:35:38; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38110
12; 7238.4; 14-JUN-2009 12:47:34; Dark ; 25.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 51; 0;38110
13; 7325.1; 14-JUN-2009 12:49:00; Dark ; 30.0; 116; 19Del Sgr ; 2.70; 4100;occ; 60; 0;38110

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2; 2164.7; 14-JUN-2009 13:03:36; Bright; 31.5; 59; 55Alp Oph ; 2.08; 8900;occ; 63; 0;38111

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3; 2875.3; 14-JUN-2009 13:15:26; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38111
4; 3505.1; 14-JUN-2009 13:25:56; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38111
5; 3884.3; 14-JUN-2009 13:32:15; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38111
6; 4410.2; 14-JUN-2009 13:41:01; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38111
7; 5435.5; 14-JUN-2009 13:58:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38111
8; 5545.0; 14-JUN-2009 13:59:56; Dark ; 33.0; 52; 16Bet Cet ; 2.04; 4500;occ; 66; 0;38111
9; 6292.0; 14-JUN-2009 14:12:23; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38111
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11; 6523.4; 14-JUN-2009 14:16:15; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38111
12; 7263.8; 14-JUN-2009 14:28:35; Dark ; 34.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 68; 0;38111
13; 7353.6; 14-JUN-2009 14:30:05; Dark ; 34.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 68; 0;38111
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2; 2164.2; 14-JUN-2009 14:44:11; Bright; 32.0; 59; 55Alp Oph ; 2.08; 8900;occ; 64; 0;38112
3; 2875.0; 14-JUN-2009 14:56:02; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38112
4; 3504.4; 14-JUN-2009 15:06:31; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38112
5; 3884.1; 14-JUN-2009 15:12:51; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38112
6; 4410.2; 14-JUN-2009 15:21:37; Dark ; 25.0; 53; 43Bet And ; 2.05; 3300;occ; 50; 0;38112
7; 5436.7; 14-JUN-2009 15:38:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38112
8; 5546.4; 14-JUN-2009 15:40:33; Dark ; 32.5; 52; 16Bet Cet ; 2.04; 4500;occ; 65; 0;38112
9; 6293.2; 14-JUN-2009 15:53:00; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38112
10; 6416.2; 14-JUN-2009 15:55:03; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38112
11; 6525.4; 14-JUN-2009 15:56:52; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38112
12; 7264.4; 14-JUN-2009 16:09:11; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38112
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2; 1318.2; 14-JUN-2009 16:10:41; Dark ; 34.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 69; 0;38113
3; 2011.7; 14-JUN-2009 16:22:15; Bright; 32.0; 126; 60Bet Oph ; 2.77; 4250;occ; 64; 0;38113
4; 2163.9; 14-JUN-2009 16:24:47; Bright; 32.0; 59; 55Alp Oph ; 2.08; 8900;occ; 64; 0;38113
5; 2874.6; 14-JUN-2009 16:36:38; Bright; 29.0; 130; 23Bet Dra ; 2.80; 5800;occ; 58; 0;38113
6; 3503.6; 14-JUN-2009 16:47:07; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38113
7; 3883.5; 14-JUN-2009 16:53:27; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38113
8; 4410.3; 14-JUN-2009 17:02:13; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38113
9; 5437.8; 14-JUN-2009 17:19:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38113
10; 5547.3; 14-JUN-2009 17:21:10; Dark ; 32.5; 52; 16Bet Cet ; 2.04; 4500;occ; 65; 0;38113
11; 6294.4; 14-JUN-2009 17:33:37; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38113
12; 6417.3; 14-JUN-2009 17:35:40; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38113
13; 6527.4; 14-JUN-2009 17:37:30; Dark ; 41.0; 172; Gam Gru ; 3.00; 13100;occ; 82; 0;38113
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2; 1318.4; 14-JUN-2009 17:51:17; Dark ; 34.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 69; 0;38114
3; 2011.2; 14-JUN-2009 18:02:50; Bright; 32.0; 126; 60Bet Oph ; 2.77; 4250;occ; 64; 0;38114
4; 2163.5; 14-JUN-2009 18:05:23; Bright; 32.0; 59; 55Alp Oph ; 2.08; 8900;occ; 64; 0;38114
5; 2874.0; 14-JUN-2009 18:17:13; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38114
6; 3503.3; 14-JUN-2009 18:27:42; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38114
7; 3883.2; 14-JUN-2009 18:34:02; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38114
8; 4410.3; 14-JUN-2009 18:42:49; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38114
9; 5438.8; 14-JUN-2009 18:59:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38114
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11; 6294.9; 14-JUN-2009 19:14:14; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38114
12; 6417.7; 14-JUN-2009 19:16:17; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38114
13; 6528.0; 14-JUN-2009 19:18:07; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;38114
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2; 1318.9; 14-JUN-2009 19:31:54; Dark ; 34.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 68; 0;38115
3; 2011.1; 14-JUN-2009 19:43:26; Bright; 32.0; 126; 60Bet Oph ; 2.77; 4250;occ; 64; 0;38115
4; 2163.1; 14-JUN-2009 19:45:58; Bright; 31.5; 59; 55Alp Oph ; 2.08; 8900;occ; 63; 0;38115
5; 2873.6; 14-JUN-2009 19:57:49; Bright; 29.0; 130; 23Bet Dra ; 2.80; 5800;occ; 58; 0;38115
6; 3502.1; 14-JUN-2009 20:08:17; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38115
7; 3882.9; 14-JUN-2009 20:14:38; Bright; 26.0; 74; 11Bet Cas ; 2.27; 6600;occ; 52; 0;38115
8; 4410.4; 14-JUN-2009 20:23:25; Dark ; 25.0; 53; 43Bet And ; 2.05; 3300;occ; 50; 0;38115
9; 5439.9; 14-JUN-2009 20:40:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38115
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11; 6296.1; 14-JUN-2009 20:54:51; Dark ; 33.5; 63; Bet Gru ; 2.15; 2800;occ; 67; 0;38115
12; 6419.5; 14-JUN-2009 20:56:55; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38115
13; 6529.7; 14-JUN-2009 20:58:45; Dark ; 41.0; 172; Gam Gru ; 3.00; 13100;occ; 82; 0;38115
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5; 496.1; 15-JUN-2009 00:19:59; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38118
6; 1230.9; 15-JUN-2009 00:32:14; Dark ; 33.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 67; 0;38118
7; 1320.1; 15-JUN-2009 00:33:43; Dark ; 34.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 68; 0;38118
8; 2010.4; 15-JUN-2009 00:45:13; Bright; 31.5; 126; 60Bet Oph ; 2.77; 4250;occ; 63; 0;38118
9; 2162.0; 15-JUN-2009 00:47:45; Bright; 31.5; 59; 55Alp Oph ; 2.08; 8900;occ; 63; 0;38118
10; 2872.5; 15-JUN-2009 00:59:35; Bright; 29.0; 130; 23Bet Dra ; 2.80; 5800;occ; 58; 0;38118
11; 3500.0; 15-JUN-2009 01:10:03; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38118
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13; 3963.9; 15-JUN-2009 01:17:47; Bright; 25.0; 68; 18Alp Cas ; 2.22; 4500;occ; 50; 0;38118
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3; 263.2; 15-JUN-2009 01:56:42; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38119
4; 386.2; 15-JUN-2009 01:58:45; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38119
5; 497.6; 15-JUN-2009 02:00:36; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38119
6; 1231.3; 15-JUN-2009 02:12:50; Dark ; 33.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 67; 0;38119
7; 1320.5; 15-JUN-2009 02:14:19; Dark ; 34.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 68; 0;38119
8; 2010.1; 15-JUN-2009 02:25:49; Bright; 31.5; 126; 60Bet Oph ; 2.77; 4250;occ; 63; 0;38119
9; 2161.8; 15-JUN-2009 02:28:20; Bright; 31.5; 59; 55Alp Oph ; 2.08; 8900;occ; 63; 0;38119
10; 2872.0; 15-JUN-2009 02:40:11; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38119
11; 3499.6; 15-JUN-2009 02:50:38; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38119
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2; -2072.3; 15-JUN-2009 02:58:22; Bright; 25.5; 68; 18Alp Cas ; 2.22; 4500;occ; 51; 0;38119
3; -1625.3; 15-JUN-2009 03:05:49; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38119
4; -591.7; 15-JUN-2009 03:23:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38119
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 12; 6440.8; 16-JUN-2009 09:50:26; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38137
 13; 6558.5; 16-JUN-2009 09:52:24; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38137
 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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 2; 2155.9; 16-JUN-2009 10:19:37; Bright; 30.5; 59; 55Alp Oph ; 2.08; 8900;occ; 61; 0;38138
 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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 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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 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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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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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
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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
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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
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
15; 2784.2; 17-JUN-2009 04:56:41; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38149
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
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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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 5; 570.1; 18-JUN-2009 22:14:45; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;38174
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 7; 1339.9; 18-JUN-2009 22:27:35; Dark ; 32.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 64; 0;38174
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4; 1223.9; 19-JUN-2009 08:29:14; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38180
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2; 83.7; 30-JUN-2009 00:41:51; Dark ; 49.5; 84; Alp Phe ; 2.40; 4500;occ; 99; 0;38333
3; 473.2; 30-JUN-2009 00:48:20; Dark ; 66.0; 63; Bet Gru ; 2.15; 2800;occ; 132; 0;38333
4; 590.9; 30-JUN-2009 00:50:18; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38333
5; 761.2; 30-JUN-2009 00:53:08; Dark ; 57.5; 172; Gam Gru ; 3.00; 13100;occ; 115; 0;38333
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
9; 2935.1; 30-JUN-2009 01:29:22; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95; 0;38333

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11; 3791.9; 30-JUN-2009 01:43:39; Bright; 47.0; 74; 11Bet Cas ; 2.27; 6600;occ; 94; 0;38333
12; 3892.9; 30-JUN-2009 01:45:20; Bright; 47.5; 68; 18Alp Cas ; 2.22; 4500;occ; 95; 0;38333
13; 4267.5; 30-JUN-2009 01:51:35; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;38333
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
 4; 591.7; 30-JUN-2009 02:30:55; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;38334
 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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 3;-1768.4; 30-JUN-2009 03:32:10; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;38334
 4;-1612.1; 30-JUN-2009 03:34:47; Dark ; 38.0; 173; 4Bet Tri ; 3.00; 8900;occ; 76; 0;38334
 5;-1360.1; 30-JUN-2009 03:38:59; Dark ; 40.5; 50; 13Alp Ari ; 2.01; 4250;occ; 81; 0;38334
 6; -543.8; 30-JUN-2009 03:52:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38334
 7; 86.1; 30-JUN-2009 04:03:05; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;38335
 8; 475.5; 30-JUN-2009 04:09:34; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38335
 9; 592.7; 30-JUN-2009 04:11:32; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;38335
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
12; 2238.9; 30-JUN-2009 04:38:58; Bright; 49.5; 168; 17Zet Aql ; 2.99; 11000;occ; 99; 0;38335
13; 2657.9; 30-JUN-2009 04:45:57; Bright; 40.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 81; 0;38335
14; 2933.3; 30-JUN-2009 04:50:32; Bright; 50.0; 144; 18Del Cyg ; 2.86; 11000;occ; 100; 0;38335
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 3;-1768.4; 30-JUN-2009 05:12:47; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;38335
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 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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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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 3; 2652.6; 30-JUN-2009 21:31:51; Bright; 41.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 82; 0;38345
 4; 2924.2; 30-JUN-2009 21:36:23; Bright; 49.0; 144; 18Del Cyg ; 2.86; 11000;occ; 98; 0;38345
 5; 3345.0; 30-JUN-2009 21:43:23; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38345
 6; 3786.0; 30-JUN-2009 21:50:44; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;38345
 7; 3887.5; 30-JUN-2009 21:52:26; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;38345
 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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 4; 602.7; 30-JUN-2009 22:38:17; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;38346
 5; 775.5; 30-JUN-2009 22:41:10; Dark ; 56.0; 172; Gam Gru ; 3.00; 13100;occ; 112; 0;38346
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 7; 2232.6; 30-JUN-2009 23:05:27; Bright; 48.5; 168; 17Zet Aql ; 2.99; 11000;occ; 97; 0;38346

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9; 2923.5; 30-JUN-2009 23:16:58; Bright; 50.0; 144; 18Del Cyg ; 2.86; 11000;occ; 100; 0;38346
10; 3344.3; 30-JUN-2009 23:23:59; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38346
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13; 4266.8; 30-JUN-2009 23:39:21; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38346
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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
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7; 2651.7; 01-JUL-2009 00:53:02; Bright; 41.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 82; 0;38347
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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13; 4424.9; 01-JUL-2009 01:22:35; Dark ; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;38347
14; 4680.2; 01-JUL-2009 01:26:50; Dark ; 38.5; 50; 13Alp Ari ; 2.01; 4250;occ; 77; 0;38347
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8; 477.3; 30-JUN-2009 07:30:48; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;38337
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