

GOMOS Daily Report 15-JUN-2009

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

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

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

[3. Plot of Spectrometers and Photometers temperatures](#)

[4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

[5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

[6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

[7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

[Level 2 products](#)

This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	18JUN2009 04:35:52
Data source version	GOMOS/5.00
Start time of products	15JUN2009 00:03:38
Stop time of products	15JUN2009 06:11:49
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

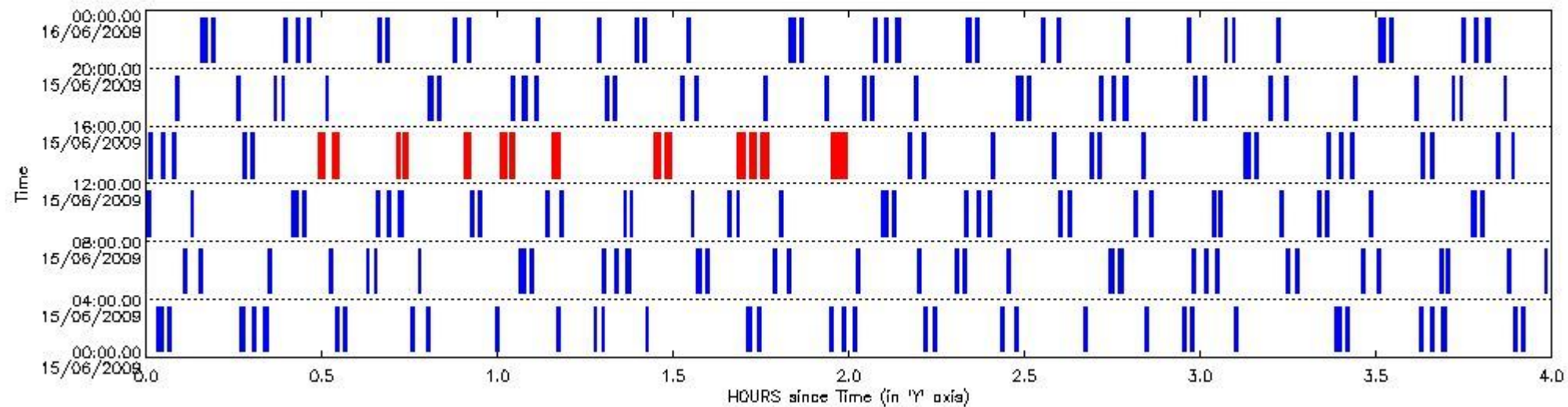
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



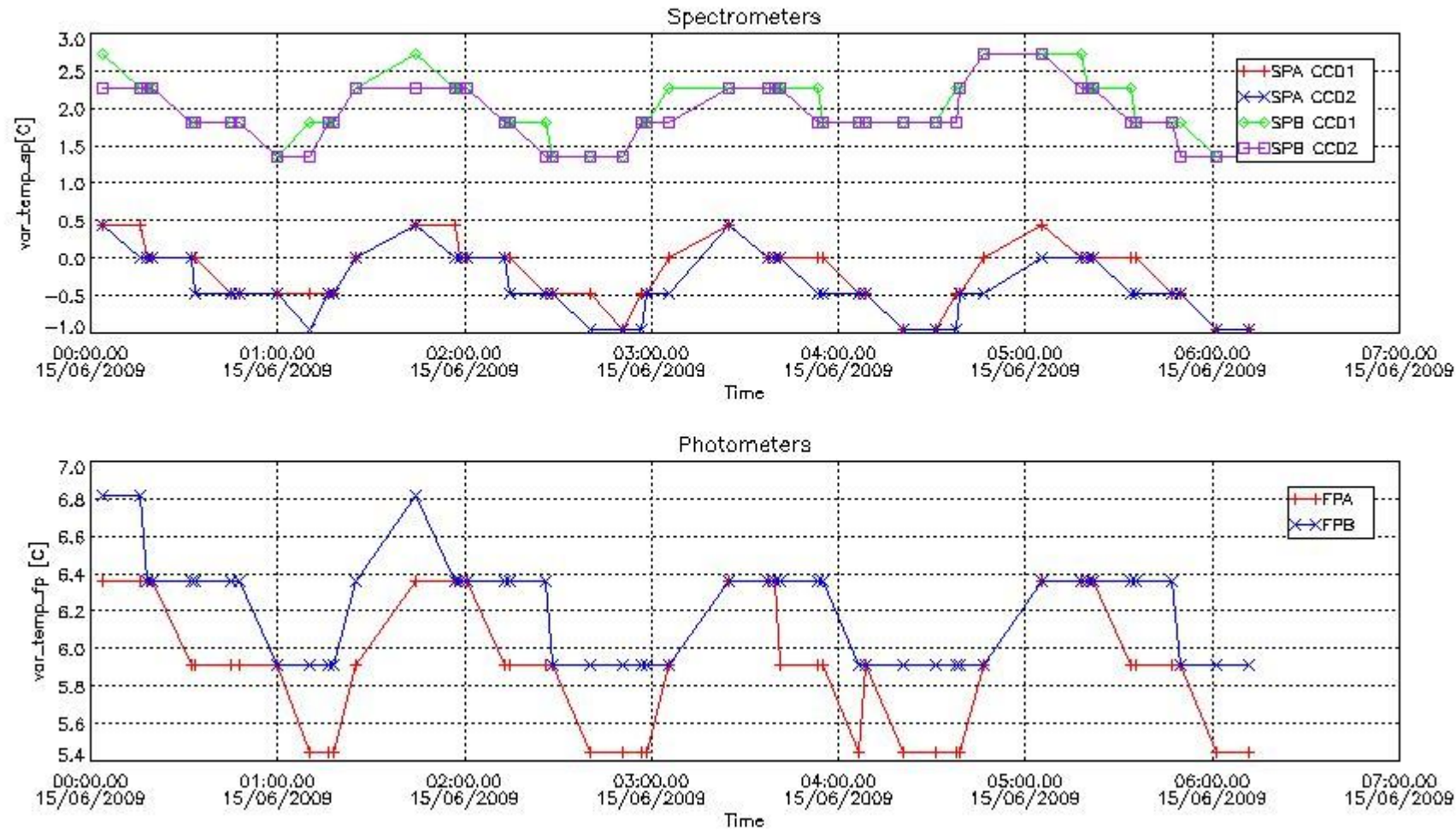
2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
15-JUN-2009 12:29:21	60BetOph	126	38125
15-JUN-2009 12:31:52	55AlpOph	59	38125
15-JUN-2009 12:42:38	3AlpLyr	5	38125
15-JUN-2009 12:43:42	23BetDra	130	38125
15-JUN-2009 12:54:08	5AlpCep	89	38125
15-JUN-2009 13:00:32	11BetCas	74	38125
15-JUN-2009 13:01:55	18AlpCas	68	38125
15-JUN-2009 13:09:24	43BetAnd	53	38125
15-JUN-2009 13:26:44	DSA1068	0	38125
15-JUN-2009 13:28:32	16BetCet	52	38125
15-JUN-2009 13:40:58	BetGru	63	38126
15-JUN-2009 13:43:01	AlpGru	31	38126
15-JUN-2009 13:44:55	GamGru	172	38126
15-JUN-2009 13:57:03	38ZetSgr	103	38126
15-JUN-2009 13:58:31	34SigSgr	57	38126

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_1PNPDE20090615_000338_000000332079_00488_38117_9022.N1	15-JUN-2009 00:03:38	Dark	33.000	52	16Bet Cet	2.0370	4500.0	66	38117	No
2	GOM_TRA_1PNPDE20090615_001605_000000342079_00489_38118_9023.N1	15-JUN-2009 00:16:05	Dark	34.000	63	Bet Gru	2.1500	2800.0	68	38118	No
3	GOM_TRA_1PNPDE20090615_001807_000000352079_00489_38118_9024.N1	15-JUN-2009 00:18:07	Dark	35.000	31	Alp Gru	1.7340	15200.	70	38118	No
4	GOM_TRA_1PNPDE20090615_001959_000000422079_00489_38118_9025.N1	15-JUN-2009 00:19:59	Straylight	42.000	172	Gam Gru	3.0030	13100.	84	38118	No
5	GOM_TRA_1PNPDE20090615_003214_000000342079_00489_38118_9026.N1	15-JUN-2009 00:32:14	Twilight	33.500	103	38Zet Sgr	2.6000	9700.0	67	38118	No
6	GOM_TRA_1PNPDE20090615_003343_000000342079_00489_38118_9027.N1	15-JUN-2009 00:33:43	Twilight	34.000	57	34Sig Sgr	2.0660	26000.	68	38118	No
7	GOM_TRA_1PNPDE20090615_004513_000000322079_00489_38118_9028.N1	15-JUN-2009 00:45:13	Bright	31.500	126	60Bet Oph	2.7700	4250.0	63	38118	No
8	GOM_TRA_1PNPDE20090615_004745_000000322079_00489_38118_9029.N1	15-JUN-2009 00:47:45	Bright	31.500	59	55Alp Oph	2.0800	8900.0	63	38118	No
9	GOM_TRA_1PNPDE20090615_005935_000000292079_00489_38118_9030.N1	15-JUN-2009 00:59:35	Bright	29.000	130	23Bet Dra	2.7990	5800.0	58	38118	No
10	GOM_TRA_1PNPDE20090615_011003_000000322079_00489_38118_9031.N1	15-JUN-2009 01:10:03	Twilight	31.500	89	5Alp Cep	2.4510	8000.0	63	38118	No
11	GOM_TRA_1PNPDE20090615_011624_000000272079_00489_38118_9032.N1	15-JUN-2009 01:16:24	Twilight	26.500	74	11Bet Cas	2.2680	6600.0	53	38118	No
12	GOM_TRA_1PNPDE20090615_011747_000000252079_00489_38118_9033.N1	15-JUN-2009 01:17:47	Twilight	25.000	68	18Alp Cas	2.2250	4500.0	50	38118	No
13	GOM_TRA_1PNPDE20090615_012513_000000252079_00489_38118_9034.N1	15-JUN-2009 01:25:13	Twilight	25.000	53	43Bet And	2.0480	3300.0	50	38118	No
14	GOM_TRA_1PNPDE20090615_014415_000000332079_00489_38118_9103.N1	15-JUN-2009 01:44:15	Dark	33.000	52	16Bet Cet	2.0370	4500.0	66	38118	No
15	GOM_TRA_1PNPDE20090615_015642_000000342079_00490_38119_9104.N1	15-JUN-2009 01:56:42	Dark	34.000	63	Bet Gru	2.1500	2800.0	68	38119	No
16	GOM_TRA_1PNPDE20090615_015845_000000342079_00490_38119_9105.N1	15-JUN-2009 01:58:45	Dark	34.000	31	Alp Gru	1.7340	15200.	68	38119	No
17	GOM_TRA_1PNPDE20090615_020036_000000422079_00490_38119_9106.N1	15-JUN-2009 02:00:36	Straylight	42.000	172	Gam Gru	3.0030	13100.	84	38119	No
18	GOM_TRA_1PNPDE20090615_021250_000000342079_00490_38119_9107.N1	15-JUN-2009 02:12:50	Twilight	33.500	103	38Zet Sgr	2.6000	9700.0	67	38119	No
19	GOM_TRA_1PNPDE20090615_021419_000000342079_00490_38119_9108.N1	15-JUN-2009 02:14:19	Twilight	34.000	57	34Sig Sgr	2.0660	26000.	68	38119	No
20	GOM_TRA_1PNPDE20090615_022549_000000322079_00490_38119_9109.N1	15-JUN-2009 02:25:49	Bright	31.500	126	60Bet Oph	2.7700	4250.0	63	38119	No
21	GOM_TRA_1PNPDE20090615_022820_000000322079_00490_38119_9110.N1	15-JUN-2009 02:28:20	Bright	31.500	59	55Alp Oph	2.0800	8900.0	63	38119	No
22	GOM_TRA_1PNPDE20090615_024011_000000302079_00490_38119_9111.N1	15-JUN-2009 02:40:11	Bright	29.500	130	23Bet Dra	2.7990	5800.0	59	38119	No
23	GOM_TRA_1PNPDE20090615_025038_000000312079_00490_38119_9112.N1	15-JUN-2009 02:50:38	Twilight	31.000	89	5Alp Cep	2.4510	8000.0	62	38119	No
24	GOM_TRA_1PNPDE20090615_025700_000000272079_00490_38119_9184.N1	15-JUN-2009 02:57:00	Twilight	26.500	74	11Bet Cas	2.2680	6600.0	53	38119	No
25	GOM_TRA_1PNPDE20090615_025822_000000262079_00490_38119_9185.N1	15-JUN-2009 02:58:22	Twilight	25.500	68	18Alp Cas	2.2250	4500.0	51	38119	No
26	GOM_TRA_1PNPDE20090615_030549_000000262079_00490_38119_9186.N1	15-JUN-2009 03:05:49	Twilight	25.500	53	43Bet And	2.0480	3300.0	51	38119	No
27	GOM_TRA_1PNPDE20090615_032452_000000332079_00490_38119_9187.N1	15-JUN-2009 03:24:52	Dark	33.000	52	16Bet Cet	2.0370	4500.0	66	38119	No
28	GOM_TRA_1PNPDE20090615_033719_000000342079_00491_38120_9188.N1	15-JUN-2009 03:37:19	Dark	34.000	63	Bet Gru	2.1500	2800.0	68	38120	No
29	GOM_TRA_1PNPDE20090615_033922_000000342079_00491_38120_9189.N1	15-JUN-2009 03:39:22	Dark	34.000	31	Alp Gru	1.7340	15200.	68	38120	No
30	GOM_TRA_1PNPDE20090615_034114_000000422079_00491_38120_9190.N1	15-JUN-2009 03:41:14	Straylight	42.000	172	Gam Gru	3.0030	13100.	84	38120	No
31	GOM_TRA_1PNPDE20090615_035326_000000342079_00491_38120_9191.N1	15-JUN-2009 03:53:26	Twilight	34.000	103	38Zet Sgr	2.6000	9700.0	68	38120	No
32	GOM_TRA_1PNPDE20090615_035456_000000342079_00491_38120_9192.N1	15-JUN-2009 03:54:56	Twilight	34.000	57	34Sig Sgr	2.0660	26000.	68	38120	No
33	GOM_TRA_1PNPDE20090615_040624_000000322079_00491_38120_9193.N1	15-JUN-2009 04:06:24	Bright	32.000	126	60Bet Oph	2.7700	4250.0	64	38120	No
34	GOM_TRA_1PNPDE20090615_040856_000000322079_00491_38120_9194.N1	15-JUN-2009 04:08:56	Bright	31.500	59	55Alp Oph	2.0800	8900.0	63	38120	No
35	GOM_TRA_1PNPDE20090615_042046_000000302079_00491_38120_9195.N1	15-JUN-2009 04:20:46	Bright	29.500	130	23Bet Dra	2.7990	5800.0	59	38120	No
36	GOM_TRA_1PNPDE20090615_043114_000000322079_00491_38120_9269.N1	15-JUN-2009 04:31:14	Twilight	31.500	89	5Alp Cep	2.4510	8000.0	63	38120	No
37	GOM_TRA_1PNPDE20090615_043736_000000272079_00491_38120_9270.N1	15-JUN-2009 04:37:36	Twilight	26.500	74	11Bet Cas	2.2680	6600.0	53	38120	No
38	GOM_TRA_1PNPDE20090615_043858_000000252079_00491_38120_9271.N1	15-JUN-2009 04:38:58	Twilight	25.000	68	18Alp Cas	2.2250	4500.0	50	38120	No
39	GOM_TRA_1PNPDE20090615_044625_000000262079_00491_38120_9272.N1	15-JUN-2009 04:46:25	Twilight	25.500	53	43Bet And	2.0480	3300.0	51	38120	No
40	GOM_TRA_1PNPDE20090615_050529_000000332079_00491_38120_9273.N1	15-JUN-2009 05:05:29	Dark	33.000	52	16Bet Cet	2.0370	4500.0	66	38120	No
41	GOM_TRA_1PNPDE20090615_051755_000000352079_00492_38121_9274.N1	15-JUN-2009 05:17:55	Dark	34.500	63	Bet Gru	2.1500	2800.0	69	38121	No
42	GOM_TRA_1PNPDE20090615_051959_000000342079_00492_38121_9275.N1	15-JUN-2009 05:19:59	Dark	34.000	31	Alp Gru	1.7340	15200.	68	38121	No
43	GOM_TRA_1PNPDE20090615_052151_000000422079_00492_38121_9276.N1	15-JUN-2009 05:21:51	Straylight	42.000	172	Gam Gru	3.0030	13100.	84	38121	No
44	GOM_TRA_1PNPDE20090615_053403_000000342079_00492_38121_9277.N1	15-JUN-2009 05:34:03	Twilight	33.500	103	38Zet Sgr	2.6000	9700.0	67	38121	No
45	GOM_TRA_1PNPDE20090615_053532_000000342079_00492_38121_9278.N1	15-JUN-2009 05:35:32	Twilight	34.000	57	34Sig Sgr	2.0660	26000.	68	38121	No
46	GOM_TRA_1PNPDE20090615_054700_000000322079_00492_38121_9279.N1	15-JUN-2009 05:47:00	Bright	31.500	126	60Bet Oph	2.7700	4250.0	63	38121	No
47	GOM_TRA_1PNPDE20090615_054932_000000322079_00492_38121_9280.N1	15-JUN-2009 05:49:32	Bright	31.500	59	55Alp Oph	2.0800	8900.0	63	38121	No
48	GOM_TRA_1PNPDE20090615_060122_000000292079_00492_38121_9281.N1	15-JUN-2009 06:01:22	Bright	29.000	130	23Bet Dra	2.7990	5800.0	58	38121	No
49	GOM_TRA_1PNPDE20090615_061149_000000312079_00492_38121_9282.N1	15-JUN-2009 06:11:49	Twilight	31.000	89	5Alp Cep	2.4510	8000.0	62	38121	No

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



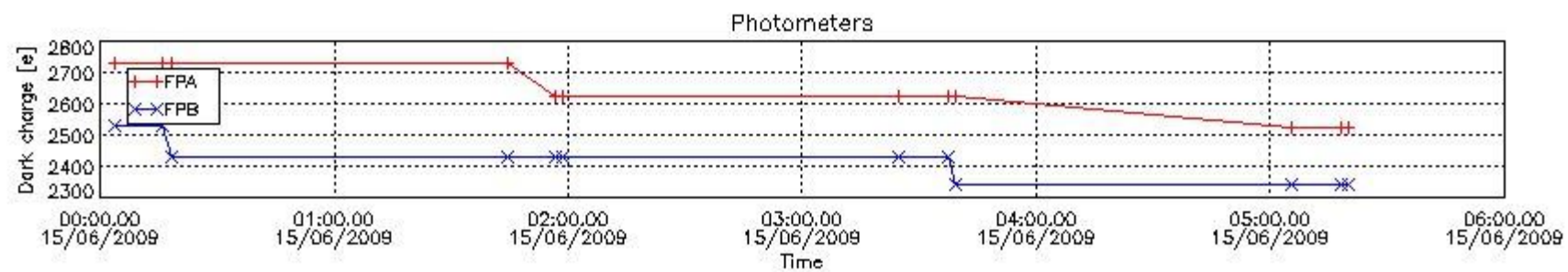
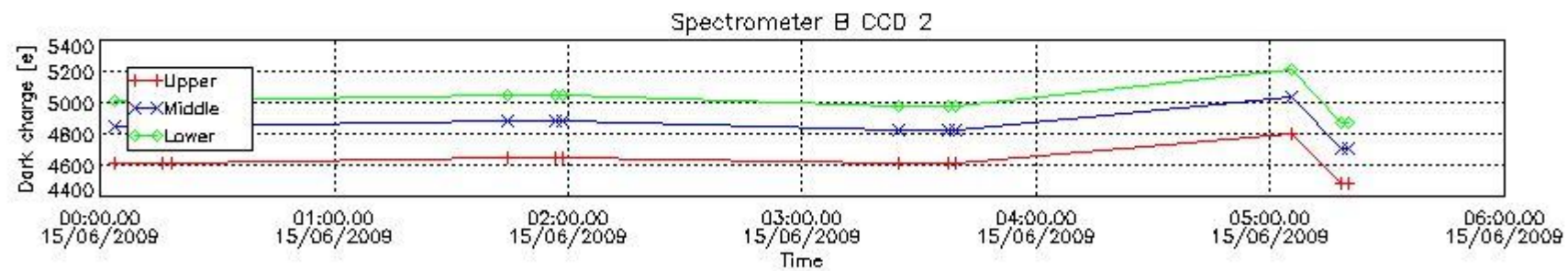
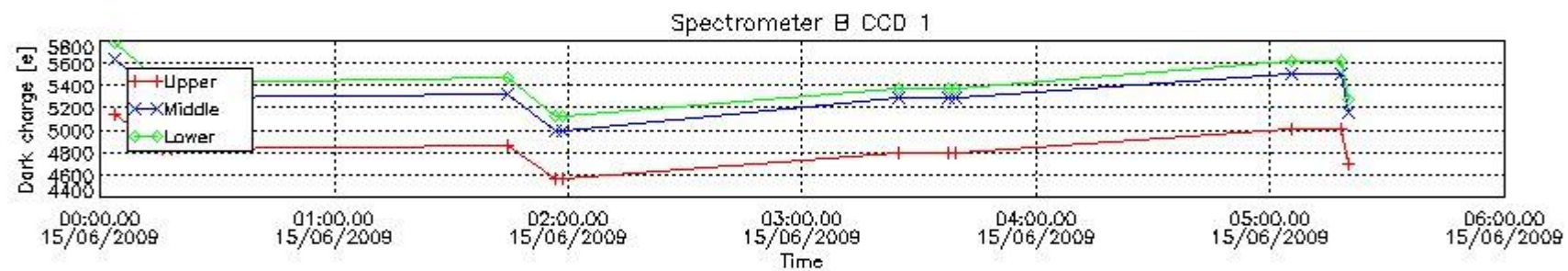
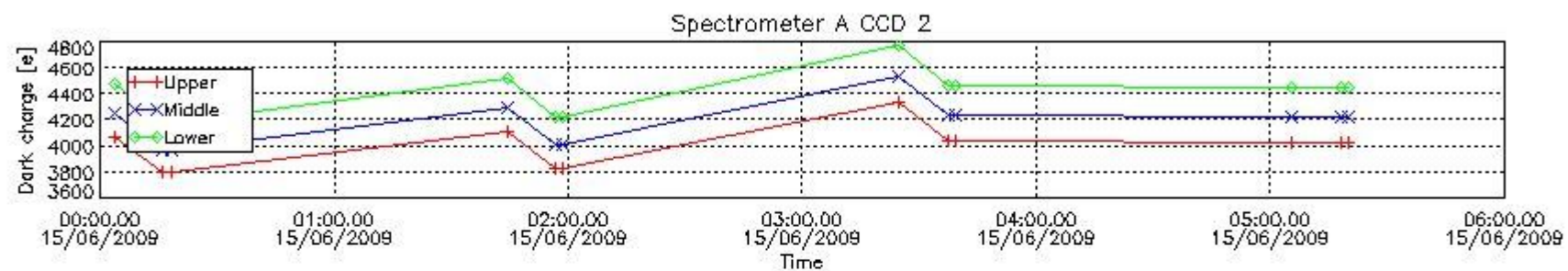
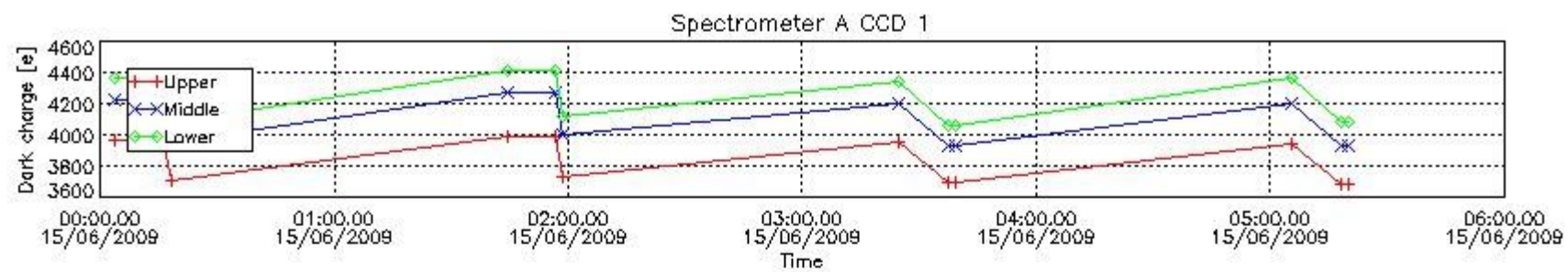
4. Overview of dark signal processing per product

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

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

4.1 All products used the DSA observation for the DC computation

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



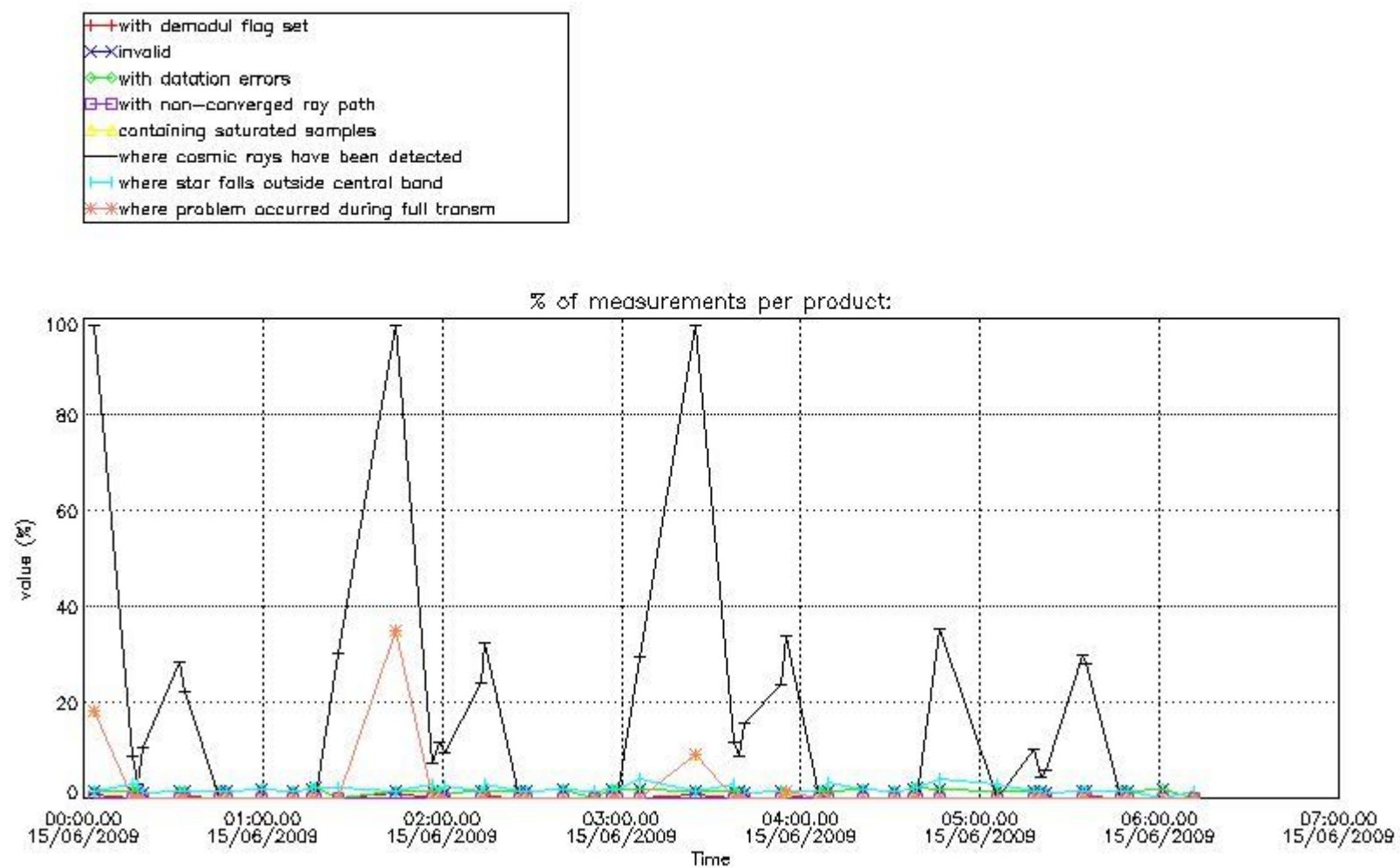
5. Demodulation flag and quality information monitoring

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

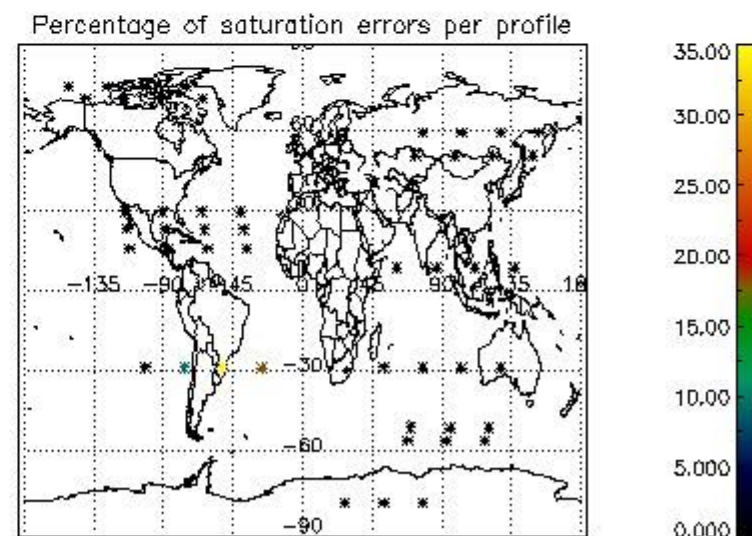
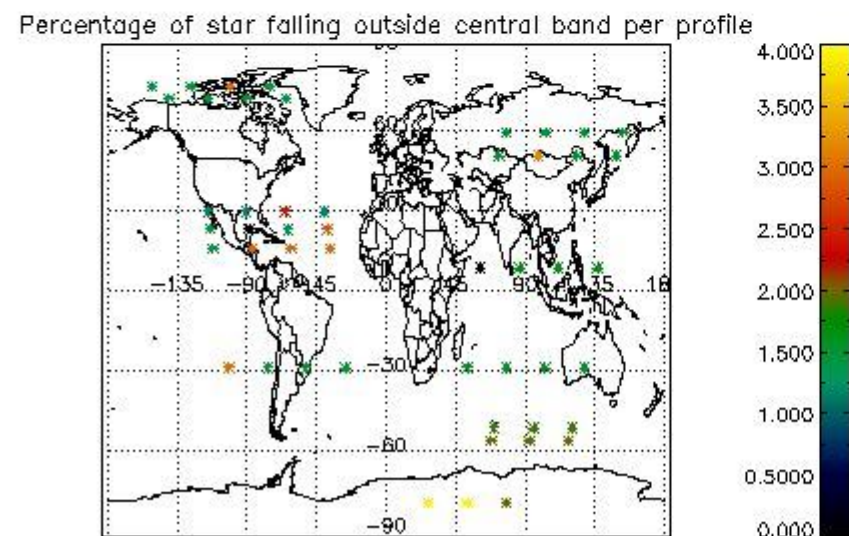
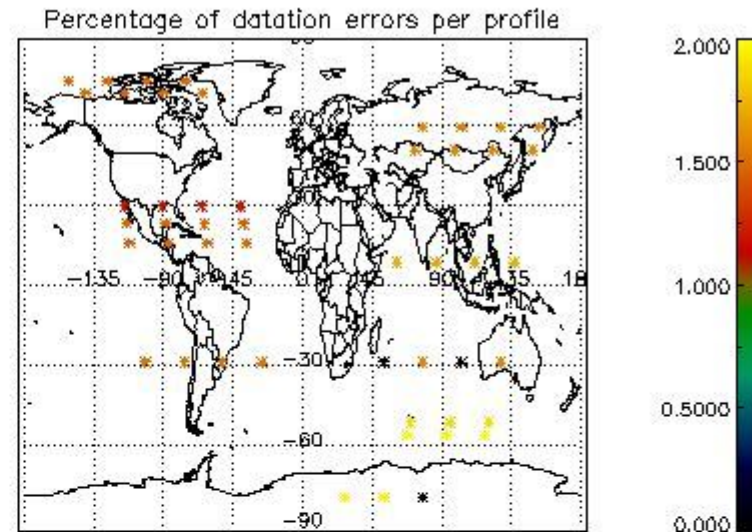
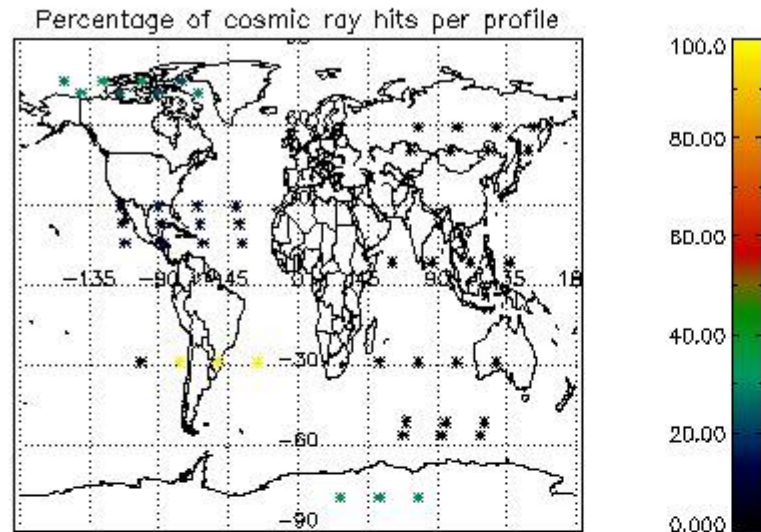
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	34.6939 %
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)



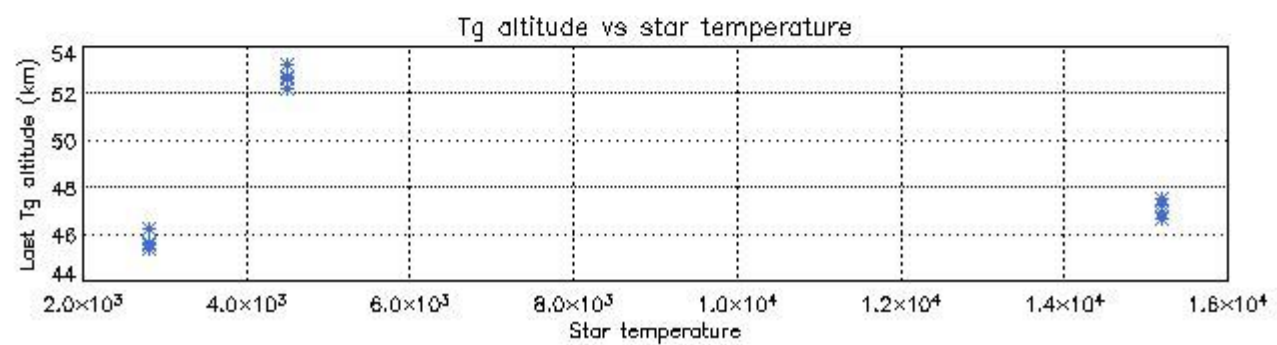
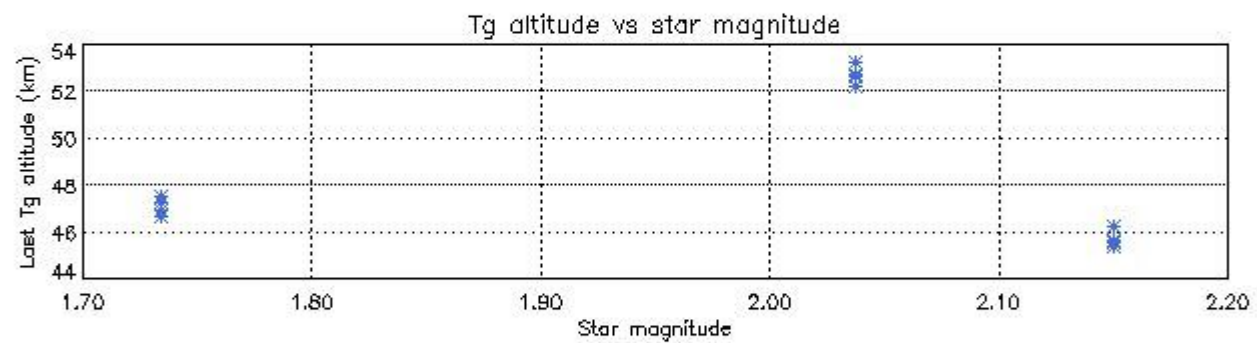
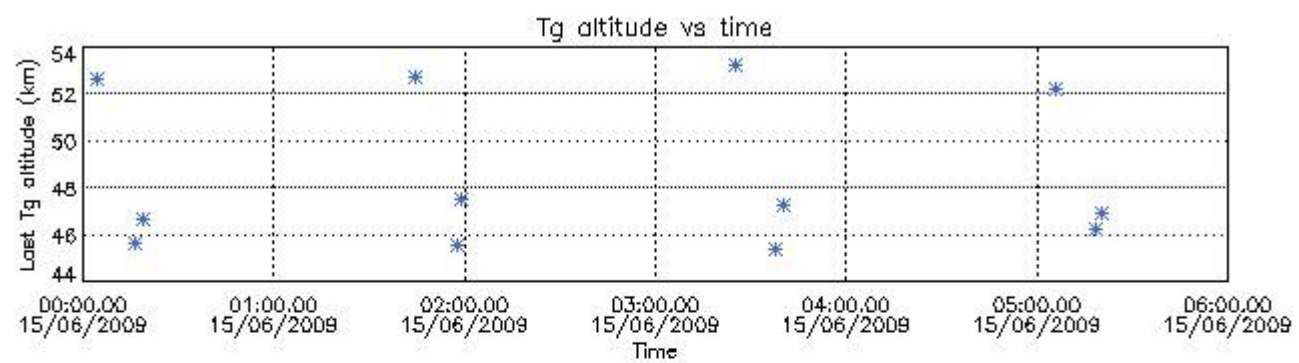
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	48.488	49.076	NaN
St. deviation:	3.1871	0.65681	NaN
Maximum:	53.207	50.091	NaN
Minimum:	45.376	47.877	NaN
Number of data:	12.000	12.000	NaN

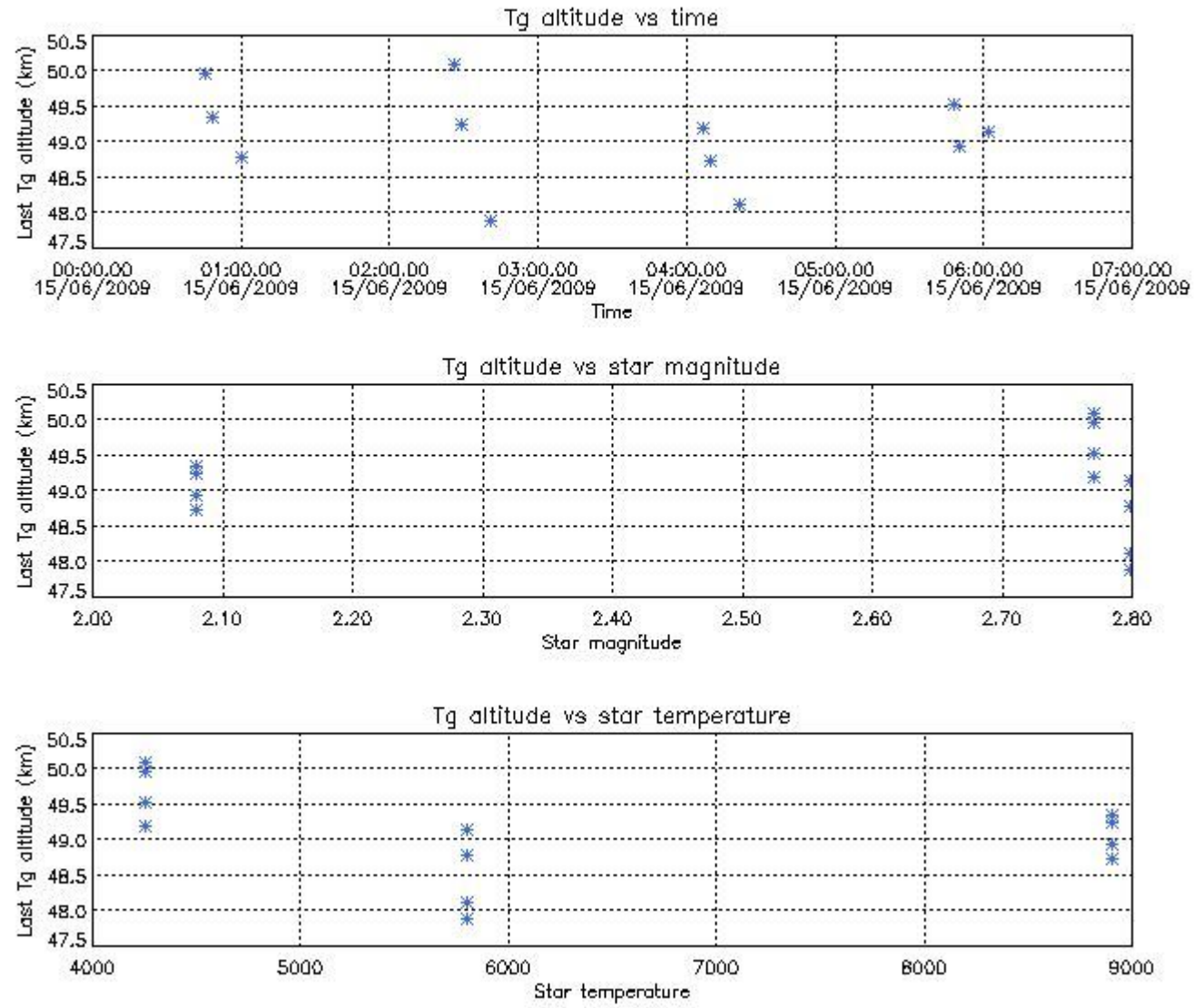
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

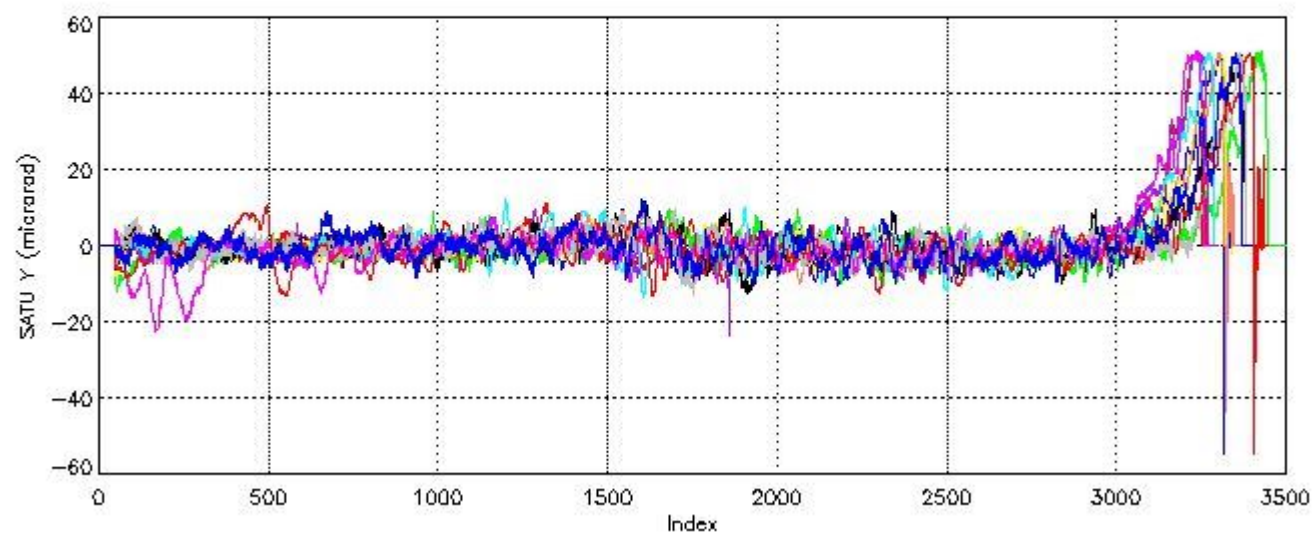
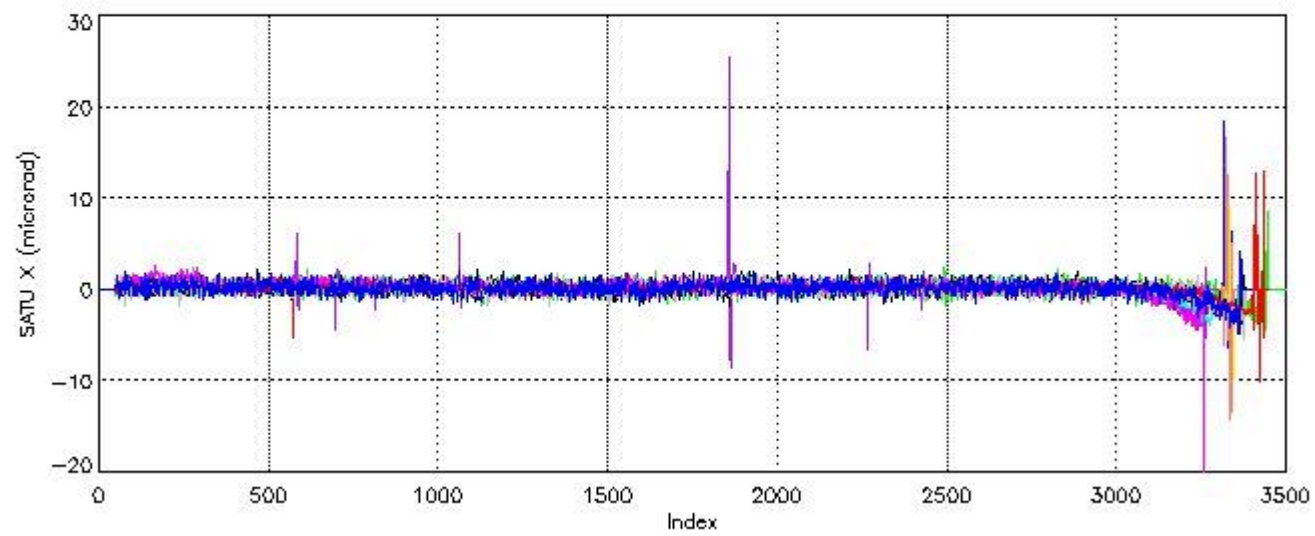


7. Star Acquisition and Tracking Unit (SATU)

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:	0.30664	-0.92772	0.39159	-0.89645
St. deviation:	0.39400	2.6265	0.76094	2.1504
Maximum:	6.1000	12.000	3.4000	9.2000
Minimum:	-5.4000	-22.700	-2.3000	-9.6000

Number of data:	13600.	13600.	11900.	11900.
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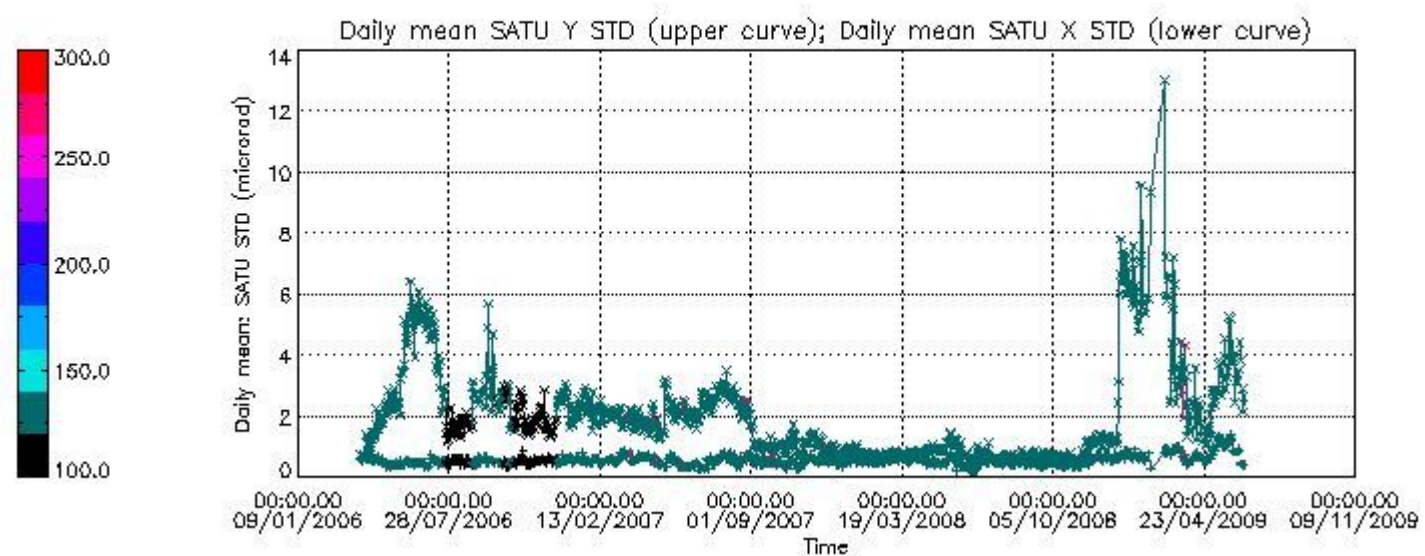
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

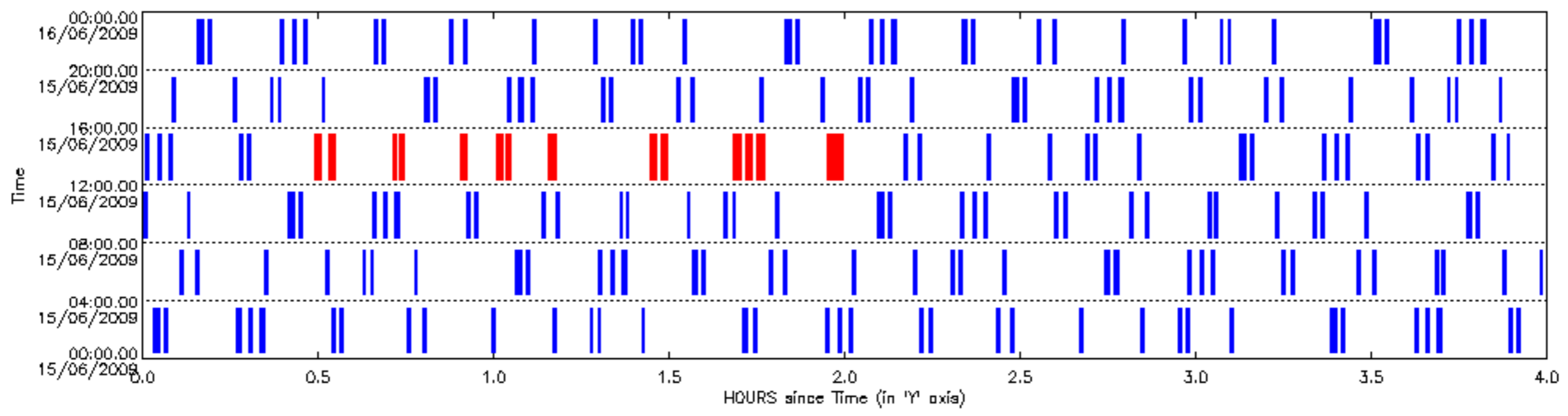
Lower curve: STD of SATU X axis

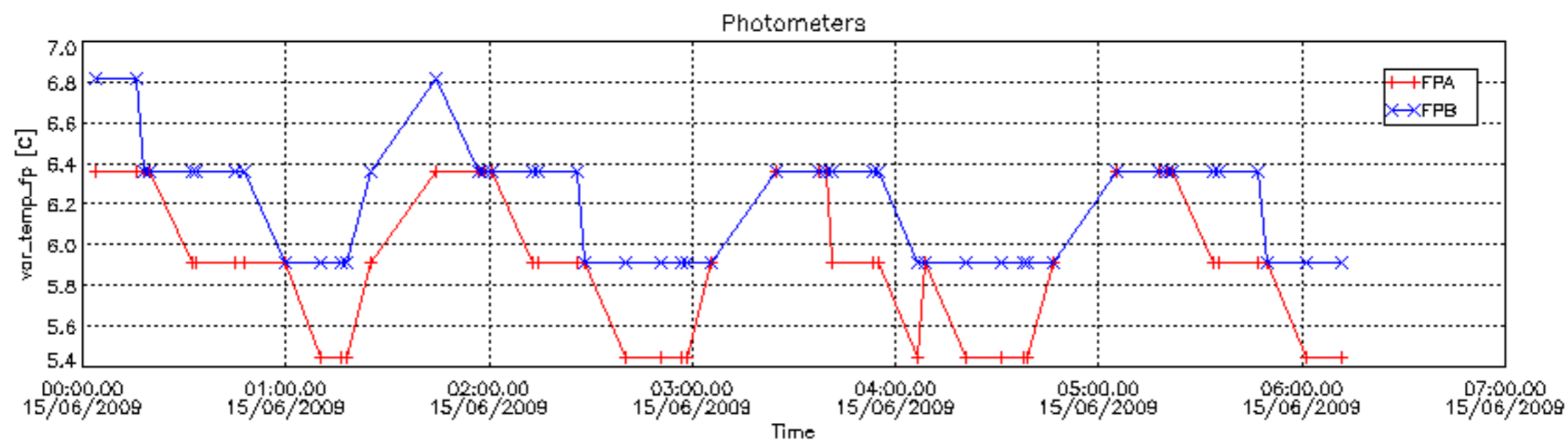
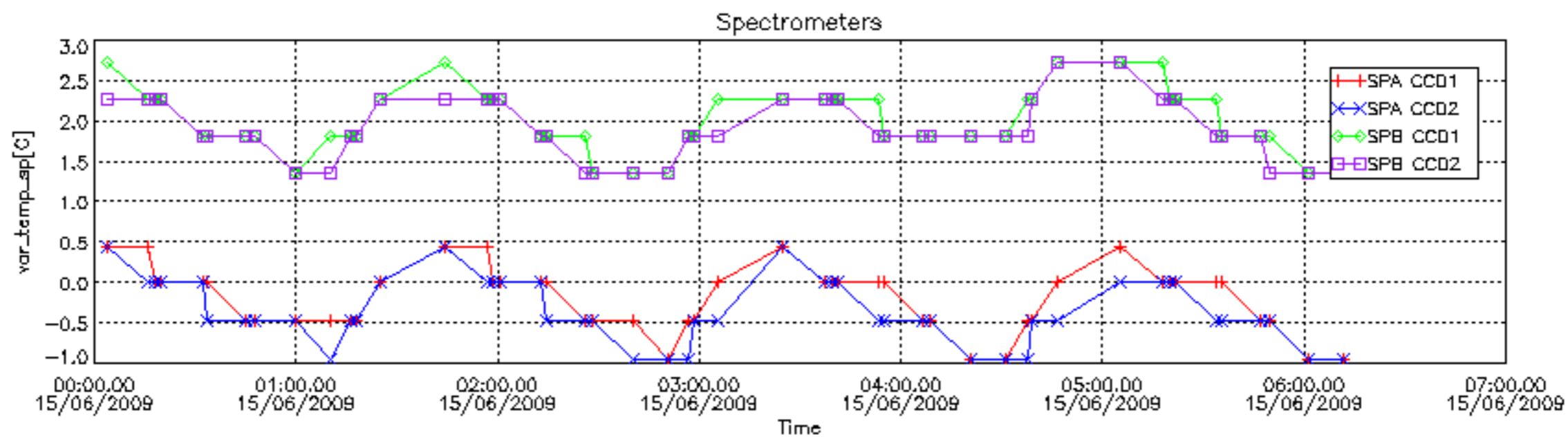


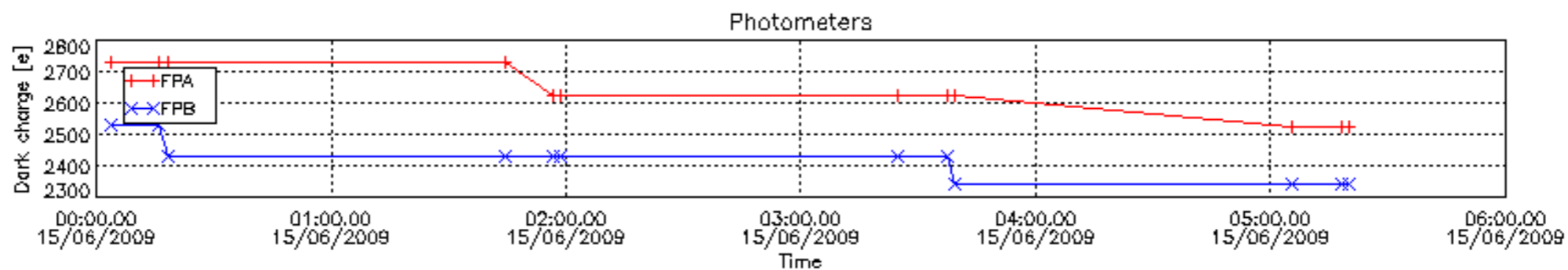
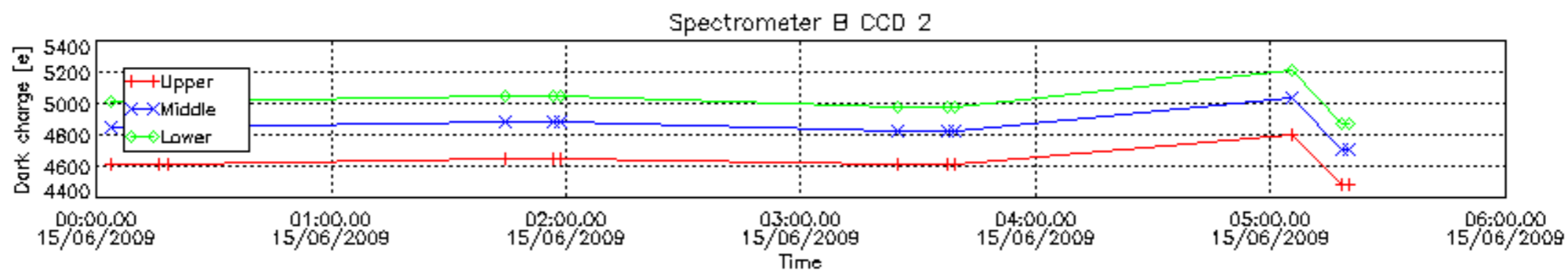
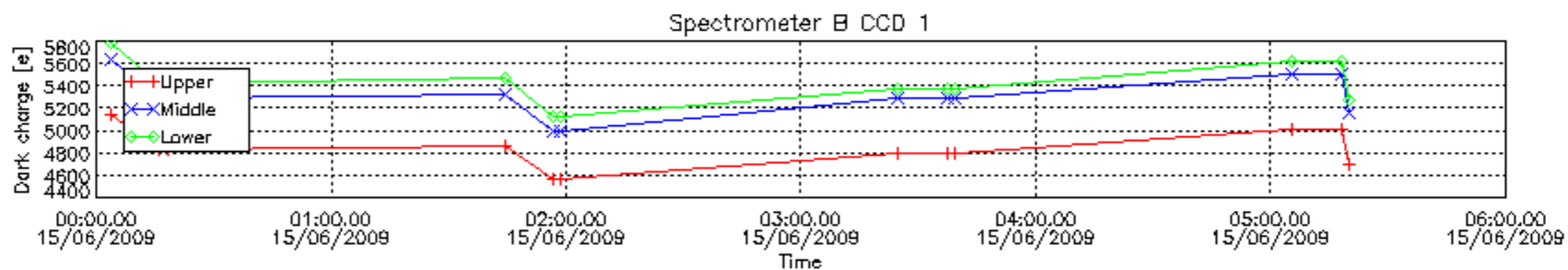
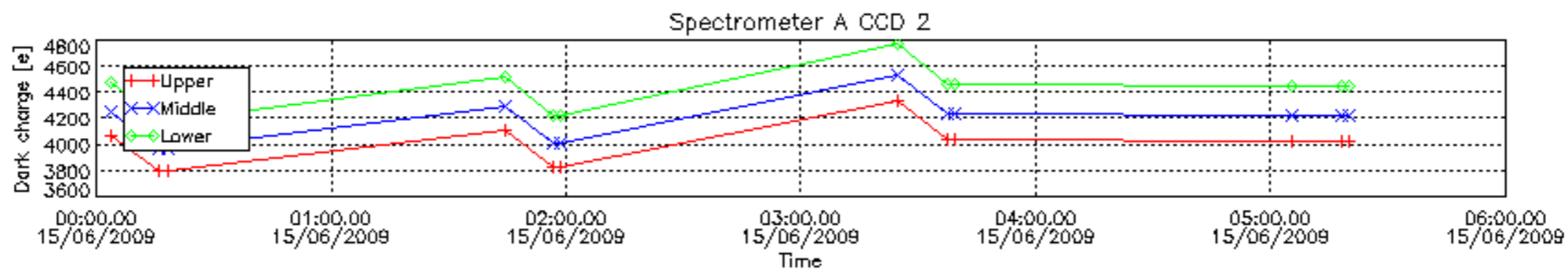
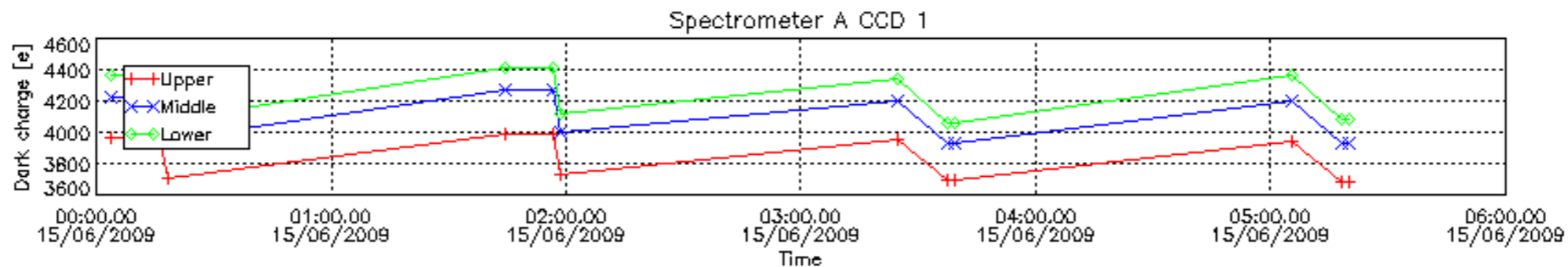
8. Auxiliary Data Files used for the production reported in section 2.4

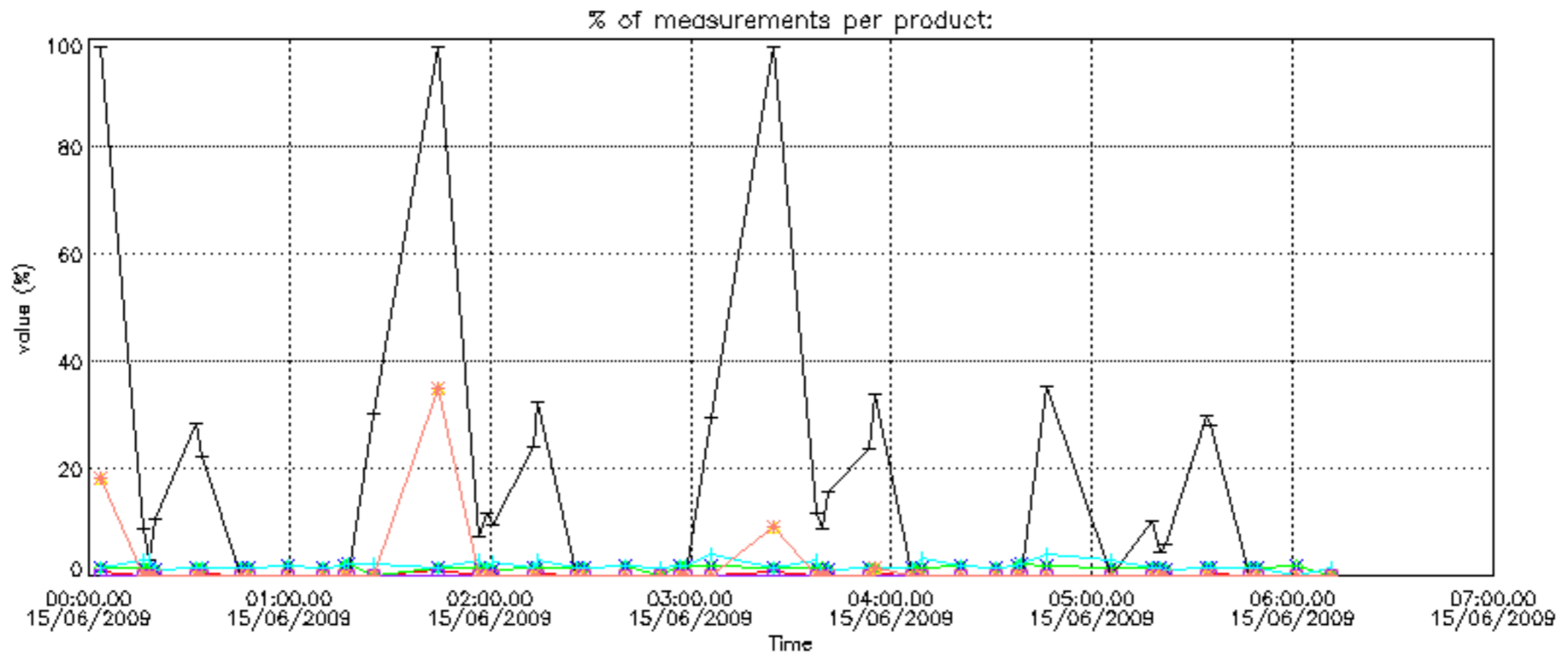
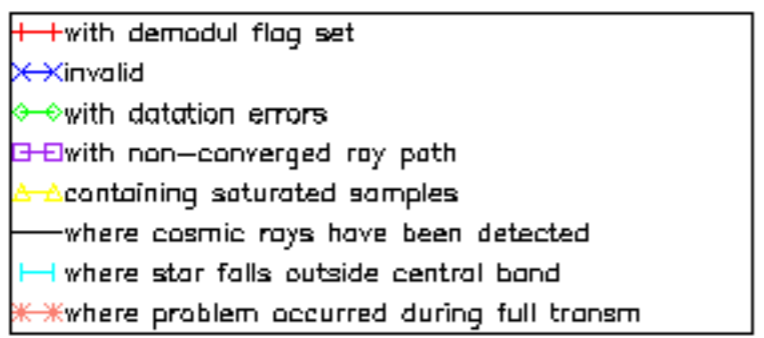
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	15-JUN-2009 00:03:38
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090608_084241_20090606_000000_20100101_000000	1	15-JUN-2009 00:03:38
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	15-JUN-2009 00:03:38
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	15-JUN-2009 00:03:38
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	15-JUN-2009 00:03:38
ECMWF_FILE	AUX_ECF_AXNECM20090614_074112_20090614_210000_20090615_090000	1	15-JUN-2009 00:03:38
ECMWF_FILE	AUX_ECF_AXNECM20090614_184113_20090615_030000_20090615_150000	36	15-JUN-2009 04:31:14
OPTIONAL_ECMWF_FILE	MISSING	1	15-JUN-2009 00:03:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090614_221038_000060572079_00487_38116_8153.N1	1	15-JUN-2009 00:03:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090614_235653_000054192079_00488_38117_8154.N1	14	15-JUN-2009 01:44:15
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090615_013232_000044632079_00489_38118_8155.N1	24	15-JUN-2009 02:57:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090615_025213_000054192079_00490_38119_8156.N1	36	15-JUN-2009 04:31:14

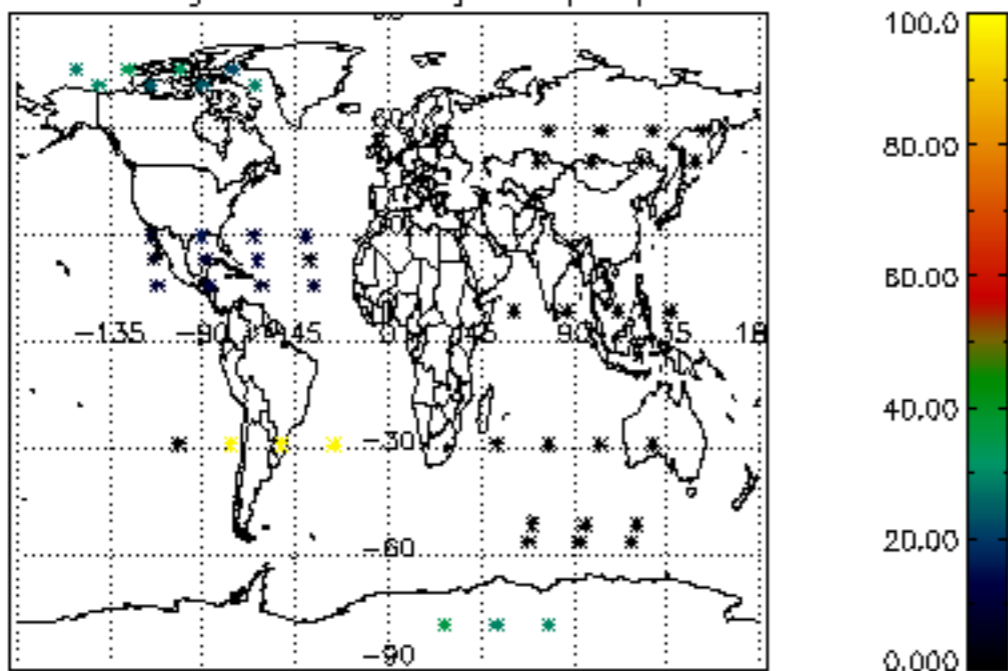




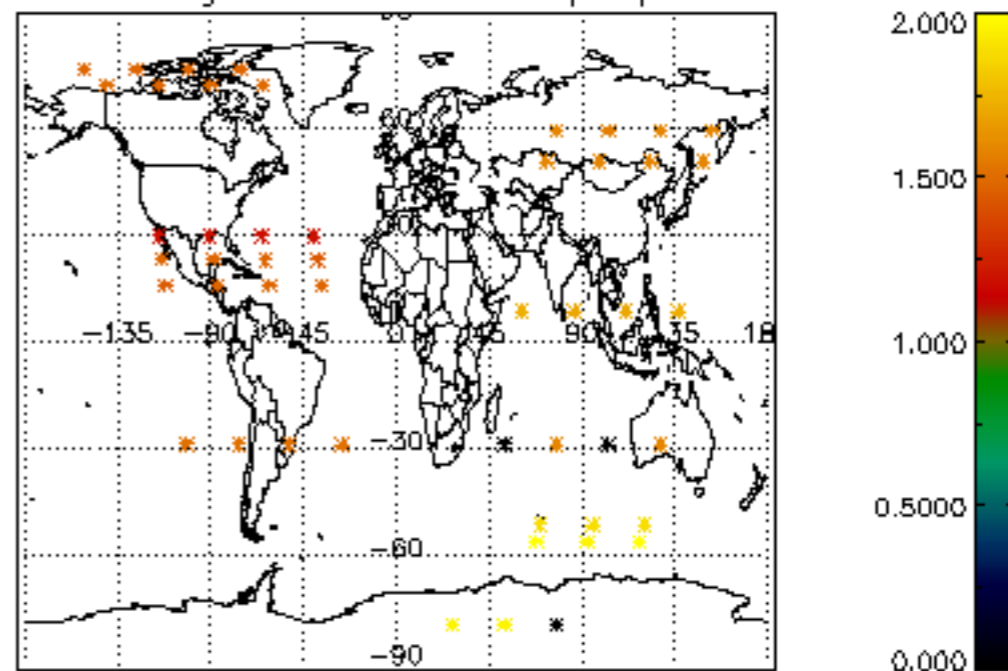




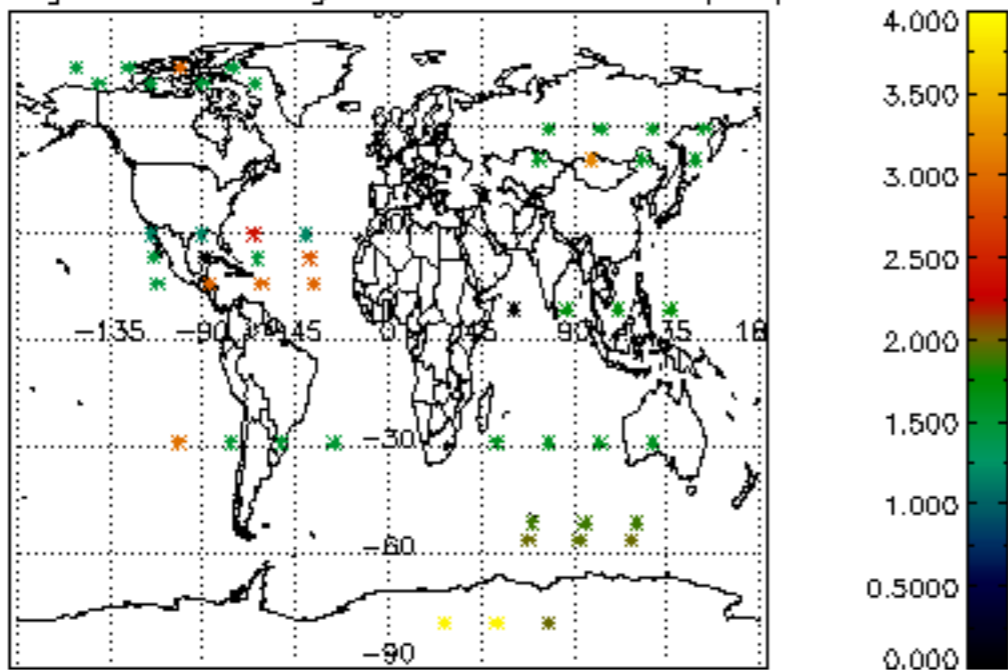
Percentage of cosmic ray hits per profile



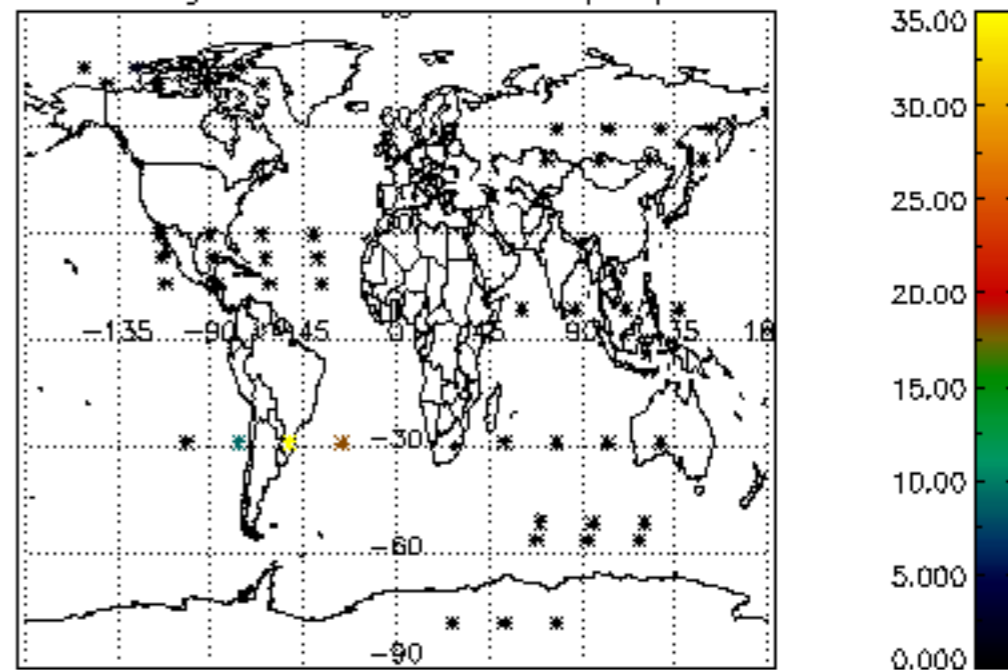
Percentage of datation errors per profile



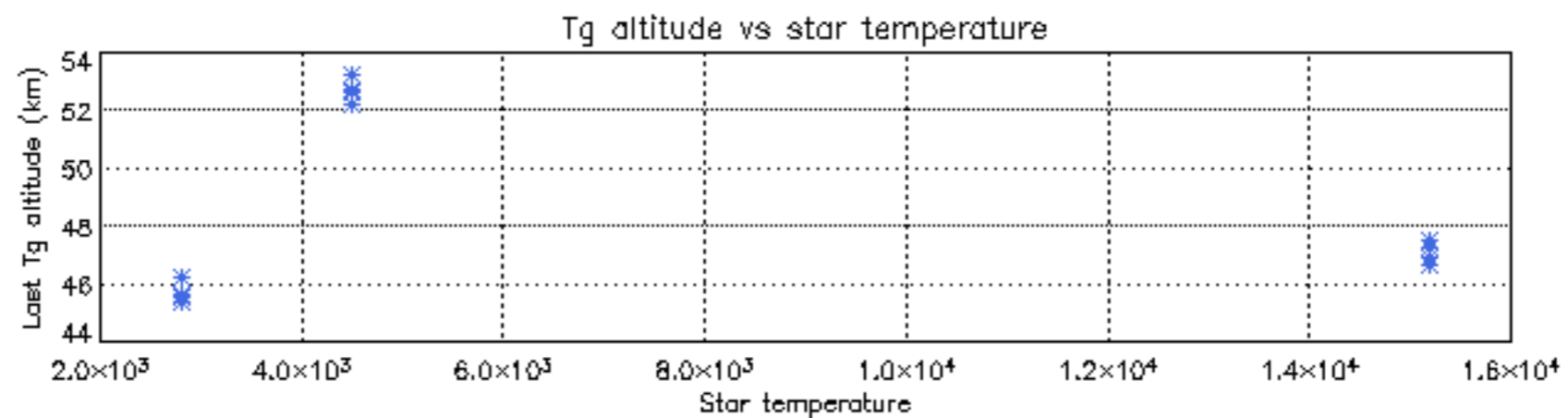
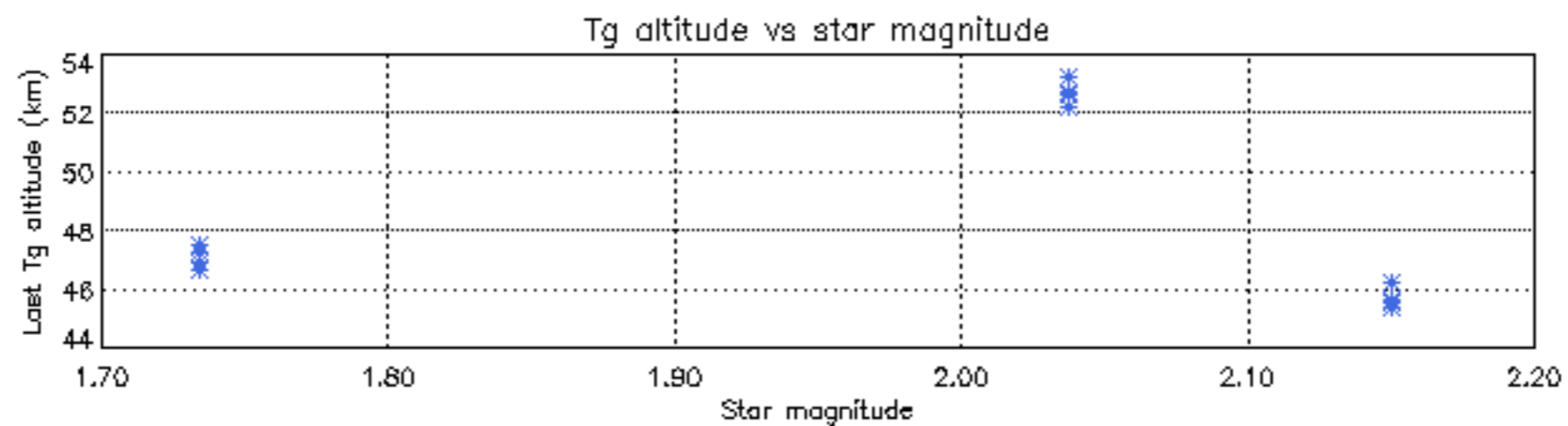
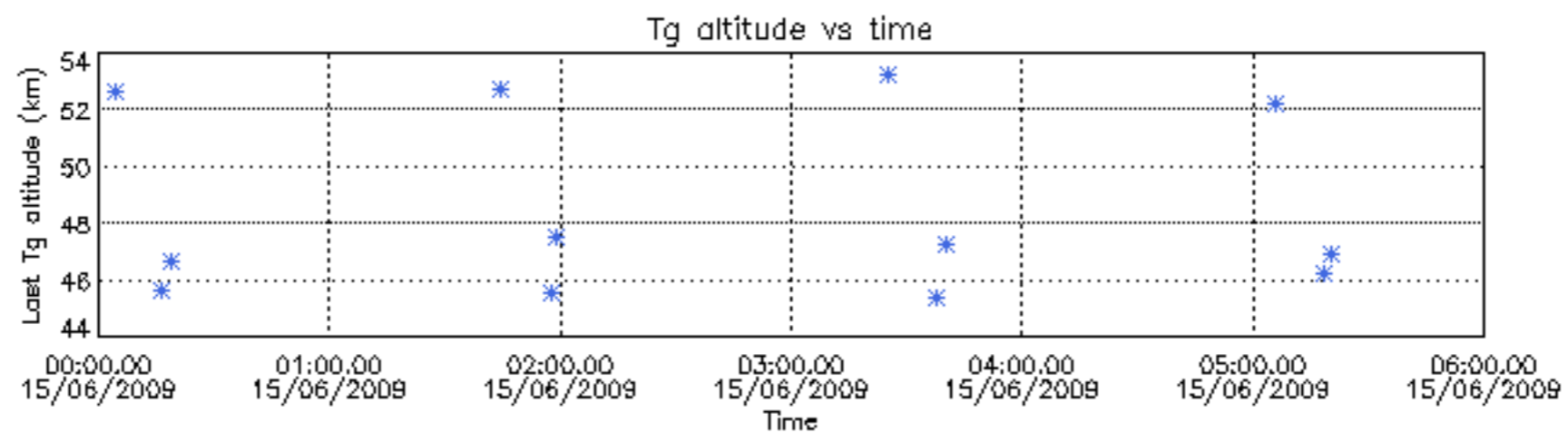
Percentage of star falling outside central band per profile



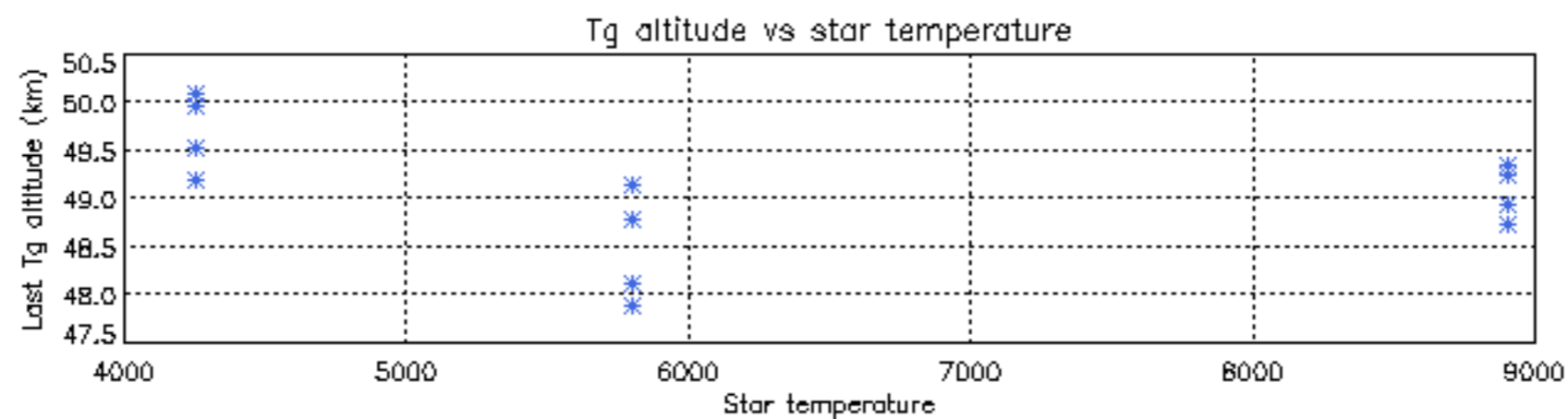
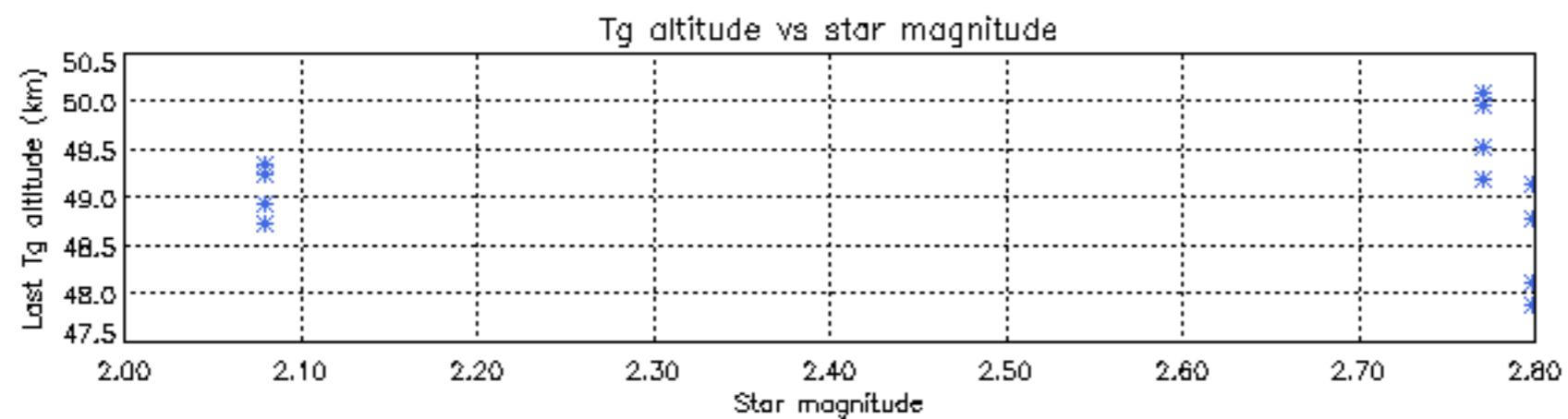
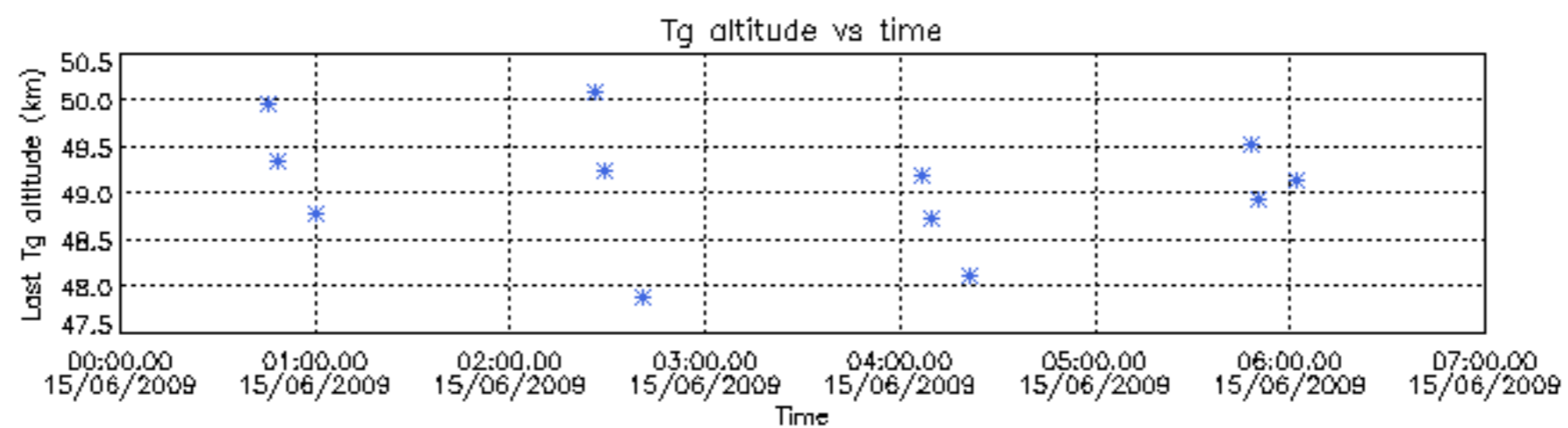
Percentage of saturation errors per profile

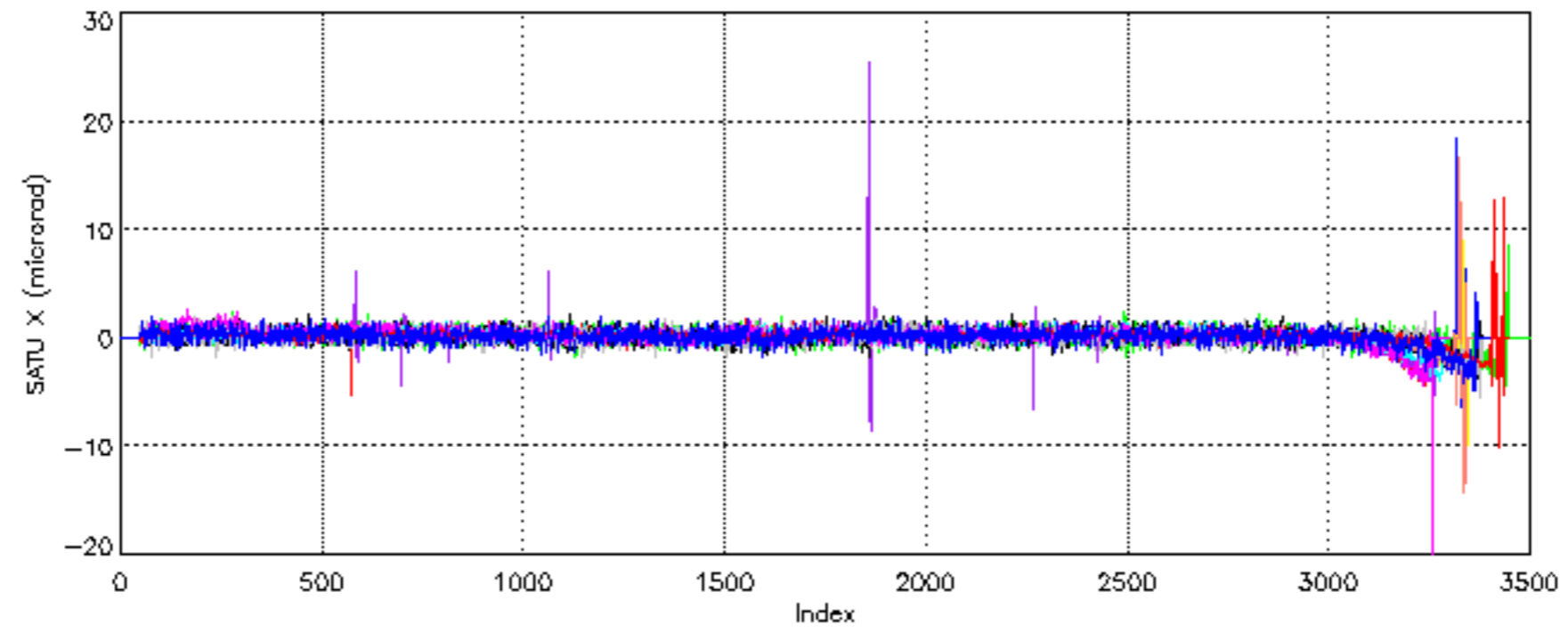


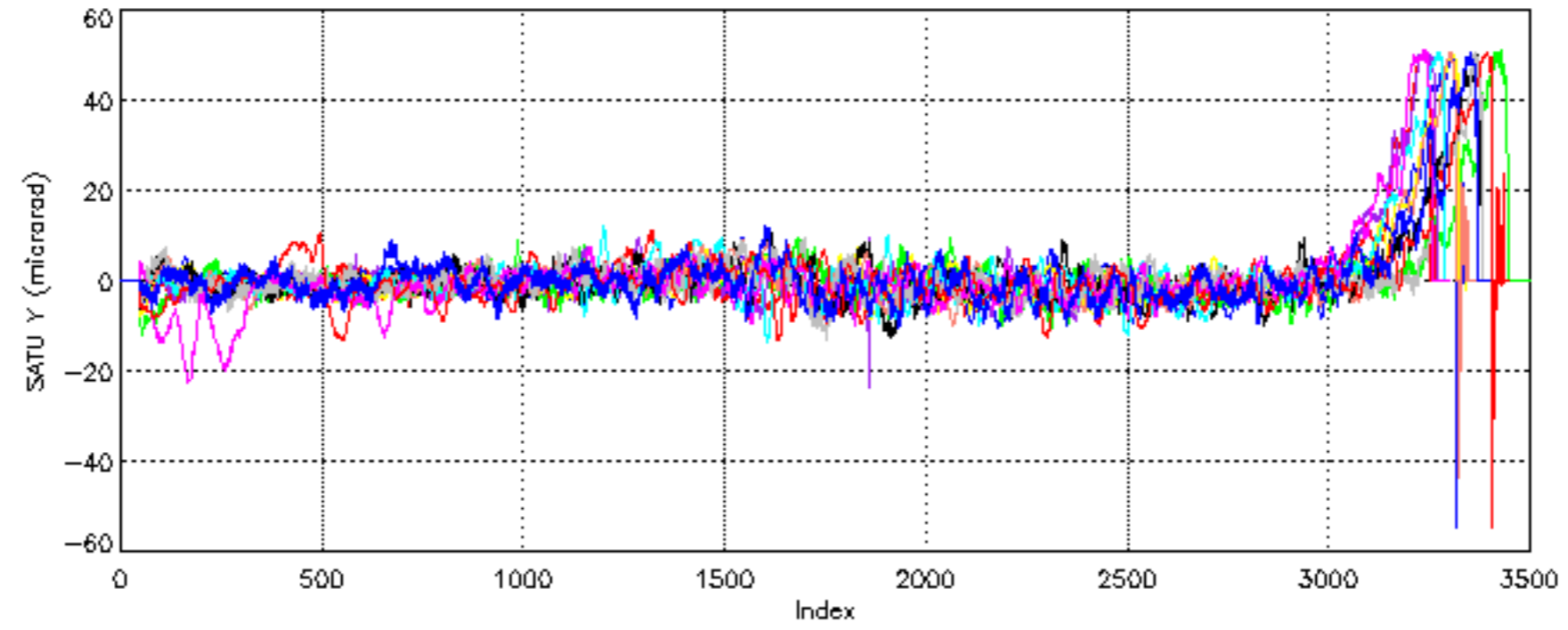
Tangent altitude at which the star is lost

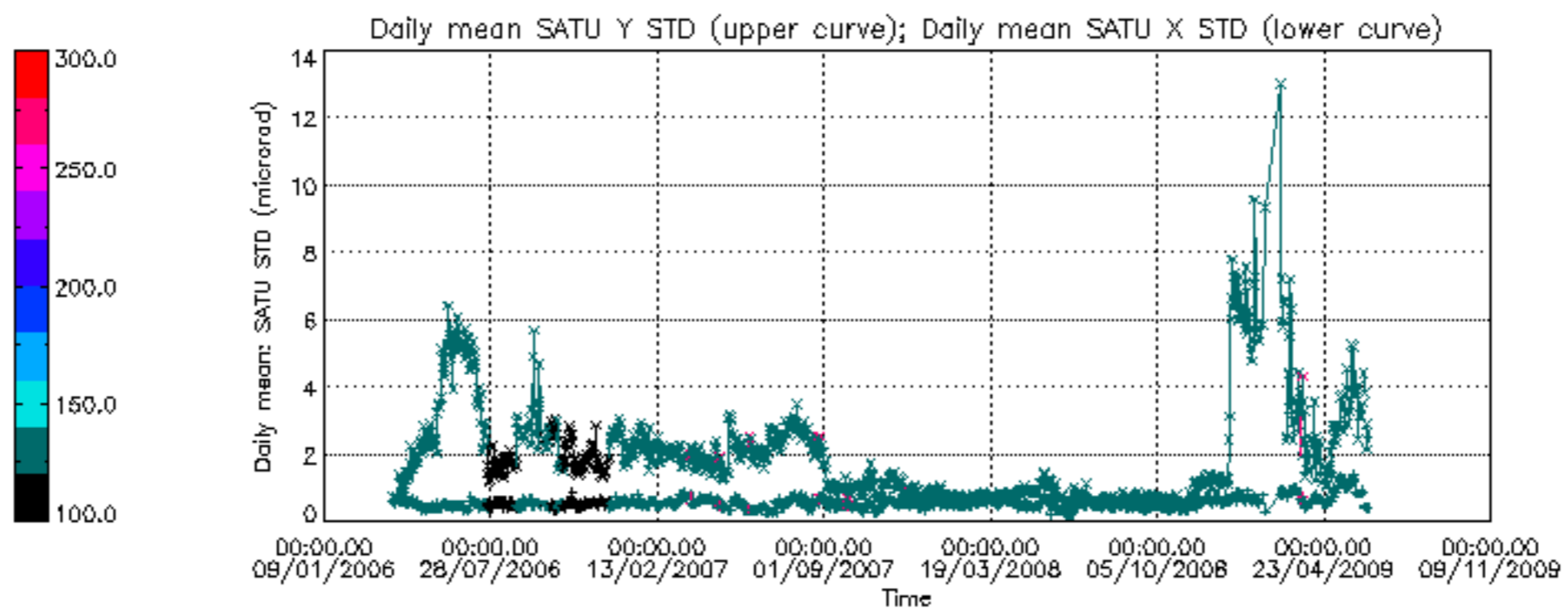


Tangent altitude at which the star is lost









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 2; 1594.9; 03-JUN-2009 17:01:17; Bright; 30.5; 86; 35Eta Oph ; 2.43; 10200;occ; 61; 0;37956
 3; 2309.9; 03-JUN-2009 17:13:12; Bright; 30.0; 127; 27Bet Her ; 2.78; 4700;occ; 60; 0;37956
 4; 2510.9; 03-JUN-2009 17:16:33; Bright; 31.0; 133; 40Zet Her ; 2.81; 6000;occ; 62; 0;37956
 5; 2953.2; 03-JUN-2009 17:23:55; Bright; 32.0; 130; 23Bet Dra ; 2.80; 5800;occ; 64; 0;37956
 6; 3605.4; 03-JUN-2009 17:34:47; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;37956
 7; 3926.0; 03-JUN-2009 17:40:08; Bright; 24.5; 74; 11Bet Cas ; 2.27; 6600;occ; 49; 0;37956

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9; 4874.1; 03-JUN-2009 17:55:56; Dark ; 29.5; 140; 88Gam Peg ; 2.83; 26000;occ; 59; 0;37956
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12; 6263.3; 03-JUN-2009 18:19:05; Dark ; 33.5; 31; Alp Gru ; 1.73; 15200;occ; 67; 0;37956
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3; 1594.9; 03-JUN-2009 18:41:53; Bright; 30.5; 86; 35Eta Oph ; 2.43; 10200;occ; 61; 0;37957
4; 2309.2; 03-JUN-2009 18:53:47; Bright; 30.0; 127; 27Bet Her ; 2.78; 4700;occ; 60; 0;37957
5; 2510.3; 03-JUN-2009 18:57:08; Bright; 31.0; 133; 40Zet Her ; 2.81; 6000;occ; 62; 0;37957
6; 2952.7; 03-JUN-2009 19:04:31; Bright; 31.5; 130; 23Bet Dra ; 2.80; 5800;occ; 63; 0;37957
7; 3604.8; 03-JUN-2009 19:15:23; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;37957
8; 3925.7; 03-JUN-2009 19:20:44; Bright; 24.5; 74; 11Bet Cas ; 2.27; 6600;occ; 49; 0;37957
9; 4564.3; 03-JUN-2009 19:31:22; Dark ; 28.0; 58; 21Alp And ; 2.07; 11000;occ; 56; 0;37957
10; 4874.4; 03-JUN-2009 19:36:32; Dark ; 30.0; 140; 88Gam Peg ; 2.83; 26000;occ; 60; 0;37957
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4; 1129.6; 04-JUN-2009 01:16:31; Dark ; 33.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 66; 0;37961
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8; 2508.5; 04-JUN-2009 01:39:30; Bright; 31.0; 133; 40Zet Her ; 2.81; 6000;occ; 62; 0;37961
9; 2950.0; 04-JUN-2009 01:46:51; Bright; 32.0; 130; 23Bet Dra ; 2.80; 5800;occ; 64; 0;37961
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4; 1130.2; 04-JUN-2009 02:57:08; Dark ; 33.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 66; 0;37962
5; 1229.5; 04-JUN-2009 02:58:47; Dark ; 34.5; 116; 19Del Sgr ; 2.70; 4100;occ; 69; 0;37962
6; 1595.5; 04-JUN-2009 03:04:53; Bright; 30.0; 86; 35Eta Oph ; 2.43; 10200;occ; 60; 0;37962
7; 2308.1; 04-JUN-2009 03:16:46; Bright; 30.0; 127; 27Bet Her ; 2.78; 4700;occ; 60; 0;37962
8; 2508.2; 04-JUN-2009 03:20:06; Bright; 31.0; 133; 40Zet Her ; 2.81; 6000;occ; 62; 0;37962
9; 2949.6; 04-JUN-2009 03:27:27; Bright; 31.5; 130; 23Bet Dra ; 2.80; 5800;occ; 63; 0;37962
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5; -712.4; 04-JUN-2009 04:07:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37962
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8; 1130.7; 04-JUN-2009 04:37:44; Dark ; 33.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 66; 0;37963
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7; 234.2; 04-JUN-2009 06:03:24; Dark ; 33.5; 31; Alp Gru ; 1.73; 15200;occ; 67; 0;37964

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3; 1596.7; 04-JUN-2009 19:50:54; Bright; 29.5; 86; 35Eta Oph ; 2.43; 10200;occ; 59; 0;37972
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7; 3595.5; 04-JUN-2009 20:24:12; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;37972
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9; 4567.6; 04-JUN-2009 20:40:25; Dark ; 28.5; 58; 21Alp And ; 2.07; 11000;occ; 57; 0;37972
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5; 1136.1; 04-JUN-2009 21:23:49; Dark ; 32.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 65; 0;37973
6; 1234.5; 04-JUN-2009 21:25:27; Dark ; 33.5; 116; 19Del Sgr ; 2.70; 4100;occ; 67; 0;37973
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9; 2503.5; 04-JUN-2009 21:46:36; Bright; 30.5; 133; 40Zet Her ; 2.81; 6000;occ; 61; 0;37973
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11; 3594.8; 04-JUN-2009 22:04:48; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;37973
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13; 4568.0; 04-JUN-2009 22:21:01; Dark ; 28.5; 58; 21Alp And ; 2.07; 11000;occ; 57; 0;37973
14; 4883.4; 04-JUN-2009 22:26:16; Dark ; 30.5; 140; 88Gam Peg ; 2.83; 26000;occ; 61; 0;37973
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6; 1596.8; 04-JUN-2009 23:12:06; Bright; 29.5; 86; 35Eta Oph ; 2.43; 10200;occ; 59; 0;37974
7; 2304.2; 04-JUN-2009 23:23:53; Bright; 29.5; 127; 27Bet Her ; 2.78; 4700;occ; 59; 0;37974
8; 2502.9; 04-JUN-2009 23:27:12; Bright; 31.0; 133; 40Zet Her ; 2.81; 6000;occ; 62; 0;37974
9; 2942.4; 04-JUN-2009 23:34:31; Bright; 31.5; 130; 23Bet Dra ; 2.80; 5800;occ; 63; 0;37974
10; 3594.1; 04-JUN-2009 23:45:23; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;37974
11; 3921.7; 04-JUN-2009 23:50:50; Bright; 25.0; 74; 11Bet Cas ; 2.27; 6600;occ; 50; 0;37974
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4; -710.3; 04-JUN-2009 07:28:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37964
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7; 1131.6; 04-JUN-2009 07:58:57; Dark ; 33.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 66; 0;37965
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5; 3923.9; 04-JUN-2009 08:45:29; Bright; 24.5; 74; 11Bet Cas ; 2.27; 6600;occ; 49; 0;37965
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3; 2947.2; 04-JUN-2009 10:09:48; Bright; 31.5; 130; 23Bet Dra ; 2.80; 5800;occ; 63; 0;37966
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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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12; 4574.2; 06-JUN-2009 21:17:53; Dark ; 29.5; 58; 21Alp And ; 2.07; 11000;occ; 59; 0;38001
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5; 1333.1; 06-JUN-2009 22:04:28; Dark ; 35.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 71; 0;38002
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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9; 2493.1; 06-JUN-2009 22:23:48; Bright; 29.5; 133; 40Zet Her ; 2.81; 6000;occ; 59; 0;38002
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5; 1270.2; 06-JUN-2009 23:44:01; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38003
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7; 1599.8; 06-JUN-2009 23:49:31; Bright; 28.5; 86; 35Eta Oph ; 2.43; 10200;occ; 57; 0;38003
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7; 273.5; 07-JUN-2009 02:48:36; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38005
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9; 1270.9; 07-JUN-2009 03:05:13; Dark ; 39.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 78; 0;38005
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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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2; 2181.8; 11-JUN-2009 07:56:20; Bright; 33.5; 59; 55Alp Oph ; 2.08; 8900;occ; 67; 0;38065
3; 2895.2; 11-JUN-2009 08:08:14; Bright; 30.0; 130; 23Bet Dra ; 2.80; 5800;occ; 60; 0;38065
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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
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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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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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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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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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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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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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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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
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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
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3; 347.0; 12-JUN-2009 08:34:45; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38080
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4; 3525.9; 12-JUN-2009 09:27:43; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38080
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 11; 6317.5; 16-JUN-2009 09:48:23; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38137
 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
10; 5003.8; 16-JUN-2009 14:28:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38140
11; 5575.1; 16-JUN-2009 14:37:48; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;38140
12; 6320.5; 16-JUN-2009 14:50:14; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38140
13; 6443.9; 16-JUN-2009 14:52:17; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38140
14; 6563.0; 16-JUN-2009 14:54:16; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38140
15; 7277.2; 16-JUN-2009 15:06:10; Dark ; 20.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 41; 0;38140

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

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

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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
16; 6566.8; 16-JUN-2009 19:56:08; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;38143

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3; 290.3; 17-JUN-2009 00:53:55; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38147
4; 413.6; 17-JUN-2009 00:55:58; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38147
5; 534.5; 17-JUN-2009 00:57:59; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38147
6; 1243.9; 17-JUN-2009 01:09:49; Dark ; 32.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 65; 0;38147

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8; 1436.8; 17-JUN-2009 01:13:01; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;38147
9; 2003.4; 17-JUN-2009 01:22:28; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38147
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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
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
16; 4412.5; 17-JUN-2009 02:02:37; Dark ; 25.5; 53; 43Bet And ; 2.05; 3300;occ; 51; 0;38147
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3; 291.3; 17-JUN-2009 02:34:32; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38148
4; 414.4; 17-JUN-2009 02:36:35; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38148
5; 535.8; 17-JUN-2009 02:38:36; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38148
6; 1244.2; 17-JUN-2009 02:50:25; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38148
7; 1330.9; 17-JUN-2009 02:51:51; Dark ; 33.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 67; 0;38148
8; 1436.8; 17-JUN-2009 02:53:37; Bright; 37.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 74; 0;38148
9; 2003.4; 17-JUN-2009 03:03:04; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38148
10; 2153.2; 17-JUN-2009 03:05:34; Bright; 30.5; 59; 55Alp Oph ; 2.08; 8900;occ; 61; 0;38148
11; 2784.9; 17-JUN-2009 03:16:05; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;38148
12; 2888.4; 17-JUN-2009 03:17:49; Bright; 30.5; 69; 33Gam Dra ; 2.23; 3800;occ; 61; 0;38148
13; 3480.0; 17-JUN-2009 03:27:40; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38148
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3; -1623.5; 17-JUN-2009 03:43:13; Dark ; 26.0; 53; 43Bet And ; 2.05; 3300;occ; 52; 0;38148
4; -1348.5; 17-JUN-2009 03:47:48; Dark ; 23.5; 105; 6Bet Ari ; 2.64; 8900;occ; 47; 0;38148
5; -558.5; 17-JUN-2009 04:00:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38148
6; -452.4; 17-JUN-2009 04:02:44; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;38148
7; 292.2; 17-JUN-2009 04:15:09; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38149
8; 415.4; 17-JUN-2009 04:17:12; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38149
9; 537.2; 17-JUN-2009 04:19:14; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38149
10; 1244.8; 17-JUN-2009 04:31:01; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38149
11; 1331.4; 17-JUN-2009 04:32:28; Dark ; 33.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 66; 0;38149
12; 1436.9; 17-JUN-2009 04:34:13; Bright; 37.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 75; 0;38149
13; 2003.1; 17-JUN-2009 04:43:40; Bright; 31.0; 126; 60Bet Oph ; 2.77; 4250;occ; 62; 0;38149
14; 2152.8; 17-JUN-2009 04:46:09; Bright; 30.5; 59; 55Alp Oph ; 2.08; 8900;occ; 61; 0;38149
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
9; 538.4; 17-JUN-2009 05:59:51; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38150
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5; 3478.0; 17-JUN-2009 08:29:27; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38151
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 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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18; 7352.1; 20-JUN-2009 11:20:21; Dark ; 28.0; 116; 19Del Sgr ; 2.70; 4100;occ; 56; 0;38195
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4; 2844.5; 20-JUN-2009 11:45:50; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38196
5; 3447.1; 20-JUN-2009 11:55:52; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38196
6; 3853.8; 20-JUN-2009 12:02:39; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38196
7; 3942.6; 20-JUN-2009 12:04:08; Bright; 26.0; 68; 18Alp Cas ; 2.22; 4500;occ; 52; 0;38196
8; 4270.8; 20-JUN-2009 12:09:36; Bright; 22.5; 73; 57Gam1And ; 2.26; 13100;occ; 45; 0;38196
9; 4414.9; 20-JUN-2009 12:12:00; Dark ; 27.0; 53; 43Bet And ; 2.05; 3300;occ; 54; 0;38196
10; 4636.7; 20-JUN-2009 12:15:42; Dark ; 23.5; 50; 13Alp Ari ; 2.01; 4250;occ; 47; 0;38196
11; 5538.5; 20-JUN-2009 12:30:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38196
12; 5639.1; 20-JUN-2009 12:32:24; Dark ; 37.0; 52; 16Bet Cet ; 2.04; 4500;occ; 74; 0;38196
13; 5991.5; 20-JUN-2009 12:38:17; Dark ; 31.5; 84; Alp Phe ; 2.40; 4500;occ; 63; 0;38196
14; 6375.4; 20-JUN-2009 12:44:41; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38196
15; 6498.3; 20-JUN-2009 12:46:44; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38196
16; 6635.0; 20-JUN-2009 12:49:00; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38196
17; 7265.3; 20-JUN-2009 12:59:30; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38196
18; 7352.1; 20-JUN-2009 13:00:57; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38196
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2; 2140.8; 20-JUN-2009 13:14:42; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38197
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6; 3853.4; 20-JUN-2009 13:43:14; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38197
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8; 4270.9; 20-JUN-2009 13:50:12; Bright; 22.5; 73; 57Gam1And ; 2.26; 13100;occ; 45; 0;38197
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12; 5640.1; 20-JUN-2009 14:13:01; Dark ; 37.0; 52; 16Bet Cet ; 2.04; 4500;occ; 74; 0;38197
13; 5992.4; 20-JUN-2009 14:18:53; Dark ; 31.5; 84; Alp Phe ; 2.40; 4500;occ; 63; 0;38197
14; 6376.2; 20-JUN-2009 14:25:17; Dark ; 35.0; 63; Bet Gru ; 2.15; 2800;occ; 70; 0;38197
15; 6499.4; 20-JUN-2009 14:27:20; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38197
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18; 7352.5; 20-JUN-2009 14:41:33; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38197
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3; 2140.7; 20-JUN-2009 14:55:18; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38198
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6; 3445.7; 20-JUN-2009 15:17:03; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38198
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9; 4415.3; 20-JUN-2009 15:33:12; Dark ; 27.0; 53; 43Bet And ; 2.05; 3300;occ; 54; 0;38198
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11; 5541.3; 20-JUN-2009 15:51:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38198
12; 5641.5; 20-JUN-2009 15:53:38; Dark ; 37.0; 52; 16Bet Cet ; 2.04; 4500;occ; 74; 0;38198
13; 5993.5; 20-JUN-2009 15:59:30; Dark ; 31.5; 84; Alp Phe ; 2.40; 4500;occ; 63; 0;38198
14; 6377.4; 20-JUN-2009 16:05:54; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38198
15; 6500.4; 20-JUN-2009 16:07:57; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38198
16; 6637.8; 20-JUN-2009 16:10:15; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38198
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3; 1449.7; 20-JUN-2009 16:24:23; Bright; 34.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 69; 0;38199
4; 1993.9; 20-JUN-2009 16:33:27; Bright; 29.5; 126; 60Bet Oph ; 2.77; 4250;occ; 59; 0;38199
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6; 2743.0; 20-JUN-2009 16:45:56; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38199
7; 2843.5; 20-JUN-2009 16:47:36; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38199
8; 3444.9; 20-JUN-2009 16:57:38; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38199
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11; 4415.3; 20-JUN-2009 17:13:48; Dark ; 27.0; 53; 43Bet And ; 2.05; 3300;occ; 54; 0;38199

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 4; 346.5; 21-JUN-2009 00:28:59; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38204
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18; 4415.4; 21-JUN-2009 01:36:48; Dark ; 27.5; 53; 43Bet And ; 2.05; 3300;occ; 55; 0;38204
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6; -485.0; 21-JUN-2009 03:36:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38205
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8; -36.1; 21-JUN-2009 03:43:48; Dark ; 31.0; 84; Alp Phe ; 2.40; 4500;occ; 62; 0;38205
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11; 610.9; 21-JUN-2009 03:54:35; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38206
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13; 1350.5; 21-JUN-2009 04:06:55; Dark ; 31.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 63; 0;38206
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4; -1620.4; 21-JUN-2009 06:38:36; Dark ; 27.5; 53; 43Bet And ; 2.05; 3300;occ; 55; 0;38207
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5; 3877.2; 21-JUN-2009 11:31:25; Bright; 25.0; 76; 27Gam Cas ; 2.30; 30000;occ; 50; 0;38210
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8; 4640.3; 21-JUN-2009 11:44:08; Dark ; 23.5; 50; 13Alp Ari ; 2.01; 4250;occ; 47; 0;38210
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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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7; 4640.9; 21-JUN-2009 13:24:45; Dark ; 23.5; 50; 13Alp Ari ; 2.01; 4250;occ; 47; 0;38211
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8; 4640.6; 21-JUN-2009 15:05:21; Dark ; 24.0; 50; 13Alp Ari ; 2.01; 4250;occ; 48; 0;38212
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13; 6393.2; 21-JUN-2009 18:55:45; Dark ; 35.0; 63; Bet Gru ; 2.15; 2800;occ; 70; 0;38214
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9; 4413.6; 21-JUN-2009 20:03:22; Dark ; 23.0; 173; 4Bet Tri ; 3.00; 8900;occ; 46; 0;38215
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11; 5403.9; 21-JUN-2009 20:19:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38215
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12; 4065.5; 22-JUN-2009 22:47:08; Bright; 20.5; 160; 23Gam Per ; 2.93; 4700;occ; 41; 0;38231
13; 4270.6; 22-JUN-2009 22:50:33; Bright; 23.5; 73; 57Gam1And ; 2.26; 13100;occ; 47; 0;38231
14; 4415.0; 22-JUN-2009 22:52:58; Dark ; 23.5; 173; 4Bet Tri ; 3.00; 8900;occ; 47; 0;38231
15; 4645.4; 22-JUN-2009 22:56:48; Dark ; 24.5; 50; 13Alp Ari ; 2.01; 4250;occ; 49; 0;38231
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 6; 4414.9; 22-JUN-2009 12:49:22; Dark ; 23.0; 173; 4Bet Tri ; 3.00; 8900;occ; 46; 0;38225
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2; 1401.2; 22-JUN-2009 15:20:20; Bright; 28.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 57; 0;38227
3; 1990.2; 22-JUN-2009 15:30:09; Bright; 28.5; 126; 60Bet Oph ; 2.77; 4250;occ; 57; 0;38227
4; 2135.3; 22-JUN-2009 15:32:34; Bright; 28.5; 59; 55Alp Oph ; 2.08; 8900;occ; 57; 0;38227
5; 2835.4; 22-JUN-2009 15:44:14; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38227
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7; 4065.3; 22-JUN-2009 16:04:44; Bright; 21.0; 160; 23Gam Per ; 2.93; 4700;occ; 42; 0;38227
8; 4270.9; 22-JUN-2009 16:08:10; Bright; 23.0; 73; 57Gam1And ; 2.26; 13100;occ; 46; 0;38227
9; 4415.3; 22-JUN-2009 16:10:34; Dark ; 23.0; 173; 4Bet Tri ; 3.00; 8900;occ; 46; 0;38227
10; 4644.7; 22-JUN-2009 16:14:24; Dark ; 24.0; 50; 13Alp Ari ; 2.01; 4250;occ; 48; 0;38227
11; 5411.7; 22-JUN-2009 16:27:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38227
12; 6019.6; 22-JUN-2009 16:37:18; Dark ; 31.5; 84; Alp Phe ; 2.40; 4500;occ; 63; 0;38227
13; 6406.2; 22-JUN-2009 16:43:45; Dark ; 35.0; 63; Bet Gru ; 2.15; 2800;occ; 70; 0;38227
14; 6528.3; 22-JUN-2009 16:45:47; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38227
15; 6719.6; 22-JUN-2009 16:48:58; Dark ; 28.5; 45; Alp Pav ; 1.94; 26000;occ; 57; 0;38227
16; 7275.5; 22-JUN-2009 16:58:14; Dark ; 2.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 4; 0;38227
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3; 1401.3; 22-JUN-2009 17:00:56; Bright; 29.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 58; 0;38228
4; 1990.0; 22-JUN-2009 17:10:45; Bright; 28.5; 126; 60Bet Oph ; 2.77; 4250;occ; 57; 0;38228
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6; 2835.0; 22-JUN-2009 17:24:50; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38228
7; 3872.1; 22-JUN-2009 17:42:07; Bright; 25.5; 76; 27Gam Cas ; 2.30; 30000;occ; 51; 0;38228
8; 4065.0; 22-JUN-2009 17:45:20; Bright; 21.5; 160; 23Gam Per ; 2.93; 4700;occ; 43; 0;38228
9; 4415.3; 22-JUN-2009 17:51:10; Dark ; 23.0; 173; 4Bet Tri ; 3.00; 8900;occ; 46; 0;38228
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11; 4934.3; 22-JUN-2009 17:59:49; Dark ; 22.0; 94; 92Alp Cet ; 2.53; 3100;occ; 44; 0;38228
12; 5412.4; 22-JUN-2009 18:07:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38228
13; 6020.4; 22-JUN-2009 18:17:55; Dark ; 31.5; 84; Alp Phe ; 2.40; 4500;occ; 63; 0;38228
14; 6407.0; 22-JUN-2009 18:24:22; Dark ; 35.0; 63; Bet Gru ; 2.15; 2800;occ; 70; 0;38228
15; 6529.4; 22-JUN-2009 18:26:24; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38228
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2; 1325.6; 22-JUN-2009 18:40:16; Dark ; 28.0; 116; 19Del Sgr ; 2.70; 4100;occ; 56; 0;38229
3; 1401.5; 22-JUN-2009 18:41:32; Bright; 29.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 58; 0;38229
4; 1632.3; 22-JUN-2009 18:45:23; Bright; 19.5; 86; 35Eta Oph ; 2.43; 10200;occ; 39; 0;38229
5; 1989.9; 22-JUN-2009 18:51:21; Bright; 28.5; 126; 60Bet Oph ; 2.77; 4250;occ; 57; 0;38229
6; 2135.1; 22-JUN-2009 18:53:46; Bright; 28.0; 59; 55Alp Oph ; 2.08; 8900;occ; 56; 0;38229
7; 2447.6; 22-JUN-2009 18:58:58; Bright; 26.0; 133; 40Zet Her ; 2.81; 6000;occ; 52; 0;38229
8; 2834.9; 22-JUN-2009 19:05:26; Bright; 27.5; 130; 23Bet Dra ; 2.80; 5800;occ; 55; 0;38229
9; 3872.2; 22-JUN-2009 19:22:43; Bright; 25.0; 76; 27Gam Cas ; 2.30; 30000;occ; 50; 0;38229
10; 4065.3; 22-JUN-2009 19:25:56; Bright; 21.0; 160; 23Gam Per ; 2.93; 4700;occ; 42; 0;38229
11; 4270.8; 22-JUN-2009 19:29:22; Bright; 23.0; 73; 57Gam1And ; 2.26; 13100;occ; 46; 0;38229
12; 4415.2; 22-JUN-2009 19:31:46; Dark ; 23.0; 173; 4Bet Tri ; 3.00; 8900;occ; 46; 0;38229
13; 4645.2; 22-JUN-2009 19:35:36; Dark ; 24.0; 50; 13Alp Ari ; 2.01; 4250;occ; 48; 0;38229
14; 4934.7; 22-JUN-2009 19:40:26; Dark ; 22.0; 94; 92Alp Cet ; 2.53; 3100;occ; 44; 0;38229
15; 5413.0; 22-JUN-2009 19:48:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38229
16; 6020.9; 22-JUN-2009 19:58:32; Dark ; 32.0; 84; Alp Phe ; 2.40; 4500;occ; 64; 0;38229
17; 6408.1; 22-JUN-2009 20:04:59; Dark ; 35.0; 63; Bet Gru ; 2.15; 2800;occ; 70; 0;38229
18; 6530.3; 22-JUN-2009 20:07:01; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38229
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3; 375.1; 23-JUN-2009 01:06:50; Dark ; 35.0; 63; Bet Gru ; 2.15; 2800;occ; 70; 0;38233
4; 497.5; 23-JUN-2009 01:08:52; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38233
5; 686.1; 23-JUN-2009 01:12:01; Dark ; 28.5; 45; Alp Pav ; 1.94; 26000;occ; 57; 0;38233
6; 1241.4; 23-JUN-2009 01:21:16; Dark ; 27.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 55; 0;38233
7; 1326.8; 23-JUN-2009 01:22:41; Dark ; 28.0; 116; 19Del Sgr ; 2.70; 4100;occ; 56; 0;38233
8; 1402.8; 23-JUN-2009 01:23:57; Bright; 28.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 57; 0;38233
9; 1989.5; 23-JUN-2009 01:33:44; Bright; 28.5; 126; 60Bet Oph ; 2.77; 4250;occ; 57; 0;38233
10; 2134.0; 23-JUN-2009 01:36:08; Bright; 28.5; 59; 55Alp Oph ; 2.08; 8900;occ; 57; 0;38233
11; 2833.8; 23-JUN-2009 01:47:48; Bright; 27.5; 130; 23Bet Dra ; 2.80; 5800;occ; 55; 0;38233
12; 3870.9; 23-JUN-2009 02:05:05; Bright; 25.5; 76; 27Gam Cas ; 2.30; 30000;occ; 51; 0;38233
13; 4270.6; 23-JUN-2009 02:11:45; Bright; 23.5; 73; 57Gam1And ; 2.26; 13100;occ; 47; 0;38233
14; 4415.4; 23-JUN-2009 02:14:10; Dark ; 23.0; 173; 4Bet Tri ; 3.00; 8900;occ; 46; 0;38233
15; 4645.9; 23-JUN-2009 02:18:00; Dark ; 24.5; 50; 13Alp Ari ; 2.01; 4250;occ; 49; 0;38233
16; 4935.9; 23-JUN-2009 02:22:50; Dark ; 21.5; 94; 92Alp Cet ; 2.53; 3100;occ; 43; 0;38233
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3; 376.1; 23-JUN-2009 02:47:26; Dark ; 35.0; 63; Bet Gru ; 2.15; 2800;occ; 70; 0;38234
4; 498.1; 23-JUN-2009 02:49:28; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38234
5; 686.7; 23-JUN-2009 02:52:37; Dark ; 28.5; 45; Alp Pav ; 1.94; 26000;occ; 57; 0;38234
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7; 1326.8; 23-JUN-2009 03:03:17; Dark ; 28.0; 116; 19Del Sgr ; 2.70; 4100;occ; 56; 0;38234
8; 1402.8; 23-JUN-2009 03:04:33; Bright; 28.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 57; 0;38234
9; 1989.4; 23-JUN-2009 03:14:20; Bright; 28.5; 126; 60Bet Oph ; 2.77; 4250;occ; 57; 0;38234
10; 2133.9; 23-JUN-2009 03:16:44; Bright; 28.5; 59; 55Alp Oph ; 2.08; 8900;occ; 57; 0;38234
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3; -1620.5; 23-JUN-2009 03:54:46; Dark ; 23.5; 173; 4Bet Tri ; 3.00; 8900;occ; 47; 0;38234
4; -1389.8; 23-JUN-2009 03:58:37; Dark ; 24.5; 50; 13Alp Ari ; 2.01; 4250;occ; 49; 0;38234
5; -619.7; 23-JUN-2009 04:11:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38234
6; -10.4; 23-JUN-2009 04:21:36; Dark ; 32.0; 84; Alp Phe ; 2.40; 4500;occ; 64; 0;38234
7; 376.7; 23-JUN-2009 04:28:03; Dark ; 35.5; 63; Bet Gru ; 2.15; 2800;occ; 71; 0;38235
8; 499.1; 23-JUN-2009 04:30:05; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38235
9; 1242.0; 23-JUN-2009 04:42:28; Dark ; 27.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 55; 0;38235
10; 1327.5; 23-JUN-2009 04:43:54; Dark ; 27.5; 116; 19Del Sgr ; 2.70; 4100;occ; 55; 0;38235
11; 1403.0; 23-JUN-2009 04:45:09; Bright; 28.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 57; 0;38235
12; 1989.6; 23-JUN-2009 04:54:56; Bright; 28.0; 126; 60Bet Oph ; 2.77; 4250;occ; 56; 0;38235
13; 2133.8; 23-JUN-2009 04:57:20; Bright; 28.5; 59; 55Alp Oph ; 2.08; 8900;occ; 57; 0;38235
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5; -619.0; 23-JUN-2009 05:52:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38235
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7; 377.8; 23-JUN-2009 06:08:40; Dark ; 35.0; 63; Bet Gru ; 2.15; 2800;occ; 70; 0;38236
8; 499.9; 23-JUN-2009 06:10:42; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38236
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12; 2133.8; 23-JUN-2009 06:37:56; Bright; 28.0; 59; 55Alp Oph ; 2.08; 8900;occ; 56; 0;38236
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3; 1329.7; 23-JUN-2009 19:49:19; Dark ; 27.5; 116; 19Del Sgr ; 2.70; 4100;occ; 55; 0;38244
4; 1628.4; 23-JUN-2009 19:54:18; Bright; 25.0; 86; 35Eta Oph ; 2.43; 10200;occ; 50; 0;38244
5; 2132.6; 23-JUN-2009 20:02:42; Bright; 27.5; 59; 55Alp Oph ; 2.08; 8900;occ; 55; 0;38244
6; 2447.2; 23-JUN-2009 20:07:57; Bright; 25.5; 133; 40Zet Her ; 2.81; 6000;occ; 51; 0;38244
7; 2830.8; 23-JUN-2009 20:14:21; Bright; 27.5; 130; 23Bet Dra ; 2.80; 5800;occ; 55; 0;38244
8; 2952.5; 23-JUN-2009 20:16:22; Bright; 25.5; 119; 14Eta Dra ; 2.73; 4700;occ; 51; 0;38244
9; 3445.8; 23-JUN-2009 20:24:36; Bright; 23.5; 49; 1Alp UMi ; 1.99; 6300;occ; 47; 0;38244
10; 4065.4; 23-JUN-2009 20:34:55; Bright; 21.0; 160; 23Gam Per ; 2.93; 4700;occ; 42; 0;38244
11; 4288.3; 23-JUN-2009 20:38:38; Bright; 20.5; 79; 26Bet Per ; 2.31; 13100;occ; 41; 0;38244

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3; 693.5; 23-JUN-2009 21:19:19; Dark ; 27.5; 45; Alp Pav ; 1.94; 26000;occ; 55; 0;38245
4; 1148.1; 23-JUN-2009 21:26:54; Dark ; 24.5; 40; The Sco ; 1.86; 7100;occ; 49; 0;38245
5; 1248.9; 23-JUN-2009 21:28:35; Dark ; 25.0; 25; 35Lam Sco ; 1.62; 28000;occ; 50; 0;38245
6; 1330.4; 23-JUN-2009 21:29:56; Dark ; 27.0; 116; 19Del Sgr ; 2.70; 4100;occ; 54; 0;38245
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8; 1732.2; 23-JUN-2009 21:36:38; Bright; 24.0; 98; 13Zet Oph ; 2.57; 30000;occ; 48; 0;38245
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15; 4065.1; 23-JUN-2009 22:15:31; Bright; 21.0; 160; 23Gam Per ; 2.93; 4700;occ; 42; 0;38245
16; 4288.3; 23-JUN-2009 22:19:14; Bright; 20.5; 79; 26Bet Per ; 2.31; 13100;occ; 41; 0;38245
17; 4939.8; 23-JUN-2009 22:30:06; Dark ; 21.5; 94; 92Alp Cet ; 2.53; 3100;occ; 43; 0;38245
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3; 1041.6; 23-JUN-2009 23:05:43; Dark ; 24.5; 147; Alp Ara ; 2.88; 26000;occ; 49; 0;38246
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10; 2446.9; 23-JUN-2009 23:29:08; Bright; 26.0; 133; 40Zet Her ; 2.81; 6000;occ; 52; 0;38246
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12; 2952.5; 23-JUN-2009 23:37:34; Bright; 25.0; 119; 14Eta Dra ; 2.73; 4700;occ; 50; 0;38246
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16; 4940.3; 24-JUN-2009 00:10:42; Dark ; 22.0; 94; 92Alp Cet ; 2.53; 3100;occ; 44; 0;38246
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6; 3178.7; 23-JUN-2009 13:37:45; Bright; 24.0; 60; 7Bet UMi ; 2.08; 3950;occ; 48; 0;38240
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3; 1329.7; 23-JUN-2009 18:08:44; Dark ; 27.5; 116; 19Del Sgr ; 2.70; 4100;occ; 55; 0;38243
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8; 2274.7; 23-JUN-2009 18:24:29; Bright; 25.5; 127; 27Bet Her ; 2.78; 4700;occ; 51; 0;38243

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3;-1970.8; 26-JUN-2009 05:35:16; Bright; 21.0; 160; 23Gam Per ; 2.93; 4700;occ; 42; 0;38278
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6;-1377.3; 26-JUN-2009 05:45:10; Dark ; 25.0; 50; 13Alp Ari ; 2.01; 4250;occ; 50; 0;38278
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3; 2721.5; 26-JUN-2009 20:18:16; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;38287
4; 3319.4; 26-JUN-2009 20:28:14; Bright; 52.5; 0; ; 0.00; 0;occ; 105; 0;38287
5; 3535.3; 26-JUN-2009 20:31:50; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;38287
6; 4598.8; 26-JUN-2009 20:49:33; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38287
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3; 2660.0; 29-JUN-2009 20:22:59; Bright; 42.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 85; 0;38330
4; 2938.0; 29-JUN-2009 20:27:37; Bright; 51.0; 144; 18Del Cyg ; 2.86; 11000;occ; 102; 0;38330
5; 3354.9; 29-JUN-2009 20:34:34; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;38330
6; 3793.5; 29-JUN-2009 20:41:53; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;38330
7; 3894.1; 29-JUN-2009 20:43:34; Bright; 41.0; 68; 18Alp Cas ; 2.22; 4500;occ; 82; 0;38330
8; 4267.8; 29-JUN-2009 20:49:47; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;38330
9; 4423.7; 29-JUN-2009 20:52:23; Dark ; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;38330
10; 4674.6; 29-JUN-2009 20:56:34; Dark ; 38.5; 50; 13Alp Ari ; 2.01; 4250;occ; 77; 0;38330
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3; 471.4; 29-JUN-2009 21:27:07; Dark ; 51.0; 63; Bet Gru ; 2.15; 2800;occ; 102; 0;38331
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5; 759.2; 29-JUN-2009 21:31:55; Dark ; 58.5; 172; Gam Gru ; 3.00; 13100;occ; 117; 0;38331
6; 1477.7; 29-JUN-2009 21:43:53; Bright; 45.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 91; 0;38331
7; 2241.1; 29-JUN-2009 21:56:36; Bright; 51.5; 168; 17Zet Aql ; 2.99; 11000;occ; 103; 0;38331

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8; 2659.5; 29-JUN-2009 22:03:35; Bright; 43.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 87; 0;38331
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11; 3792.9; 29-JUN-2009 22:22:28; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;38331
12; 3893.6; 29-JUN-2009 22:24:09; Bright; 41.0; 68; 18Alp Cas ; 2.22; 4500;occ; 82; 0;38331
13; 4267.7; 29-JUN-2009 22:30:23; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38331
14; 4423.7; 29-JUN-2009 22:32:59; Dark ; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;38331
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3; 472.5; 29-JUN-2009 23:07:44; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;38332
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6; 1478.0; 29-JUN-2009 23:24:29; Bright; 44.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 88; 0;38332
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9; 2935.9; 29-JUN-2009 23:48:47; Bright; 50.5; 144; 18Del Cyg ; 2.86; 11000;occ; 101; 0;38332
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2; 464.9; 29-JUN-2009 09:42:49; Dark ; 65.5; 63; Bet Gru ; 2.15; 2800;occ; 131; 0;38324
3; 582.7; 29-JUN-2009 09:44:47; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;38324
4; 751.3; 29-JUN-2009 09:47:35; Dark ; 57.0; 172; Gam Gru ; 3.00; 13100;occ; 114; 0;38324
5; 1476.4; 29-JUN-2009 09:59:40; Bright; 46.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 93; 0;38324
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2; 2663.3; 29-JUN-2009 10:19:27; Bright; 45.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 91; 0;38324
3; 2943.1; 29-JUN-2009 10:24:07; Bright; 50.5; 144; 18Del Cyg ; 2.86; 11000;occ; 101; 0;38324
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5; 3796.6; 29-JUN-2009 10:38:20; Bright; 45.5; 74; 11Bet Cas ; 2.27; 6600;occ; 91; 0;38324
6; 3896.5; 29-JUN-2009 10:40:00; Bright; 45.5; 68; 18Alp Cas ; 2.22; 4500;occ; 91; 0;38324
7; 4268.1; 29-JUN-2009 10:46:12; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;38324
8; 4423.2; 29-JUN-2009 10:48:47; Dark ; 39.0; 173; 4Bet Tri ; 3.00; 8900;occ; 78; 0;38324
9; 4672.5; 29-JUN-2009 10:52:56; Dark ; 42.0; 50; 13Alp Ari ; 2.01; 4250;occ; 84; 0;38324
10; 5483.7; 29-JUN-2009 11:06:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38324
11; 6111.9; 29-JUN-2009 11:16:56; Dark ; 51.0; 84; Alp Phe ; 2.40; 4500;occ; 102; 0;38324
12; 6501.4; 29-JUN-2009 11:23:25; Dark ; 61.5; 63; Bet Gru ; 2.15; 2800;occ; 123; 0;38324
13; 6619.4; 29-JUN-2009 11:25:23; Dark ; 53.5; 31; Alp Gru ; 1.73; 15200;occ; 107; 0;38324
14; 6788.5; 29-JUN-2009 11:28:12; Dark ; 60.5; 172; Gam Gru ; 3.00; 13100;occ; 121; 0;38324
15; 7512.5; 29-JUN-2009 11:40:16; Bright; 47.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 95; 0;38324
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2; 2662.6; 29-JUN-2009 12:00:02; Bright; 45.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 91; 0;38325
3; 2942.1; 29-JUN-2009 12:04:42; Bright; 52.0; 144; 18Del Cyg ; 2.86; 11000;occ; 104; 0;38325
4; 3358.5; 29-JUN-2009 12:11:38; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;38325
5; 3796.2; 29-JUN-2009 12:18:56; Bright; 69.0; 74; 11Bet Cas ; 2.27; 6600;occ; 138; 0;38325
6; 3896.5; 29-JUN-2009 12:20:36; Bright; 42.5; 68; 18Alp Cas ; 2.22; 4500;occ; 85; 0;38325
7; 4268.1; 29-JUN-2009 12:26:48; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;38325
8; 4423.5; 29-JUN-2009 12:29:23; Dark ; 38.0; 173; 4Bet Tri ; 3.00; 8900;occ; 76; 0;38325
9; 4672.9; 29-JUN-2009 12:33:33; Dark ; 40.5; 50; 13Alp Ari ; 2.01; 4250;occ; 81; 0;38325
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11; 6112.6; 29-JUN-2009 12:57:32; Dark ; 51.0; 84; Alp Phe ; 2.40; 4500;occ; 102; 0;38325
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13; 6620.4; 29-JUN-2009 13:06:00; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38325
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3; 2941.5; 29-JUN-2009 13:45:17; Bright; 51.5; 144; 18Del Cyg ; 2.86; 11000;occ; 103; 0;38326
4; 3357.7; 29-JUN-2009 13:52:13; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;38326
5; 3795.8; 29-JUN-2009 13:59:31; Bright; 43.0; 74; 11Bet Cas ; 2.27; 6600;occ; 86; 0;38326

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6; 3896.1; 29-JUN-2009 14:01:12; Bright; 43.0; 68; 18Alp Cas ; 2.22; 4500;occ; 86; 0;38326
7; 4268.1; 29-JUN-2009 14:07:24; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;38326
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12; 6503.5; 29-JUN-2009 14:44:39; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;38326
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3; 2661.7; 29-JUN-2009 15:21:13; Bright; 46.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 93; 0;38327
4; 2940.4; 29-JUN-2009 15:25:52; Bright; 50.5; 144; 18Del Cyg ; 2.86; 11000;occ; 101; 0;38327
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9; 4423.7; 29-JUN-2009 15:50:35; Dark ; 37.0; 173; 4Bet Tri ; 3.00; 8900;occ; 74; 0;38327
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12; 6114.8; 29-JUN-2009 16:18:46; Dark ; 51.0; 84; Alp Phe ; 2.40; 4500;occ; 102; 0;38327
13; 6504.6; 29-JUN-2009 16:25:16; Dark ; 51.0; 63; Bet Gru ; 2.15; 2800;occ; 102; 0;38327
14; 6622.3; 29-JUN-2009 16:27:14; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 0;38327
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3; 2661.2; 29-JUN-2009 17:01:49; Bright; 49.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 98; 0;38328
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9; 4423.7; 29-JUN-2009 19:11:47; Dark ; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;38329
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13; 6506.5; 29-JUN-2009 19:46:30; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;38329
14; 6624.0; 29-JUN-2009 19:48:27; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38329
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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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 2; 2233.1; 30-JUN-2009 21:24:51; Bright; 49.5; 168; 17Zet Aql ; 2.99; 11000;occ; 99; 0;38345
 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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 3; 486.1; 30-JUN-2009 22:36:20; Dark ; 49.5; 63; Bet Gru ; 2.15; 2800;occ; 99; 0;38346
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 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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12; 3887.2; 30-JUN-2009 23:33:01; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;38346
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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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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