

GOMOS Daily Report 16-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	19JUN2009 04:36:49
Data source version	GOMOS/5.00
Start time of products	16JUN2009 00:00:43
Stop time of products	16JUN2009 05:15:20
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

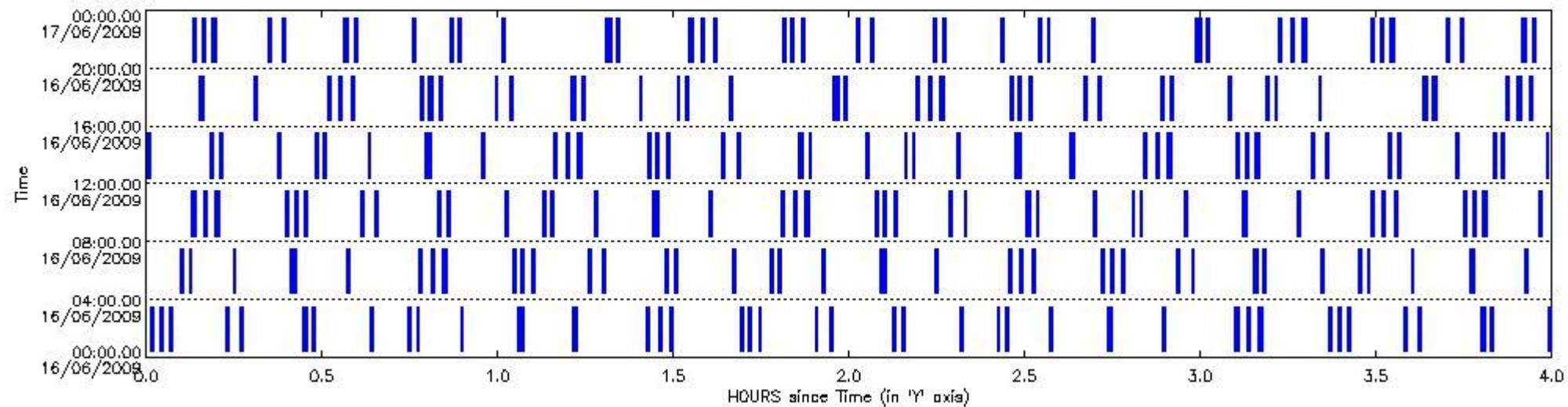
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

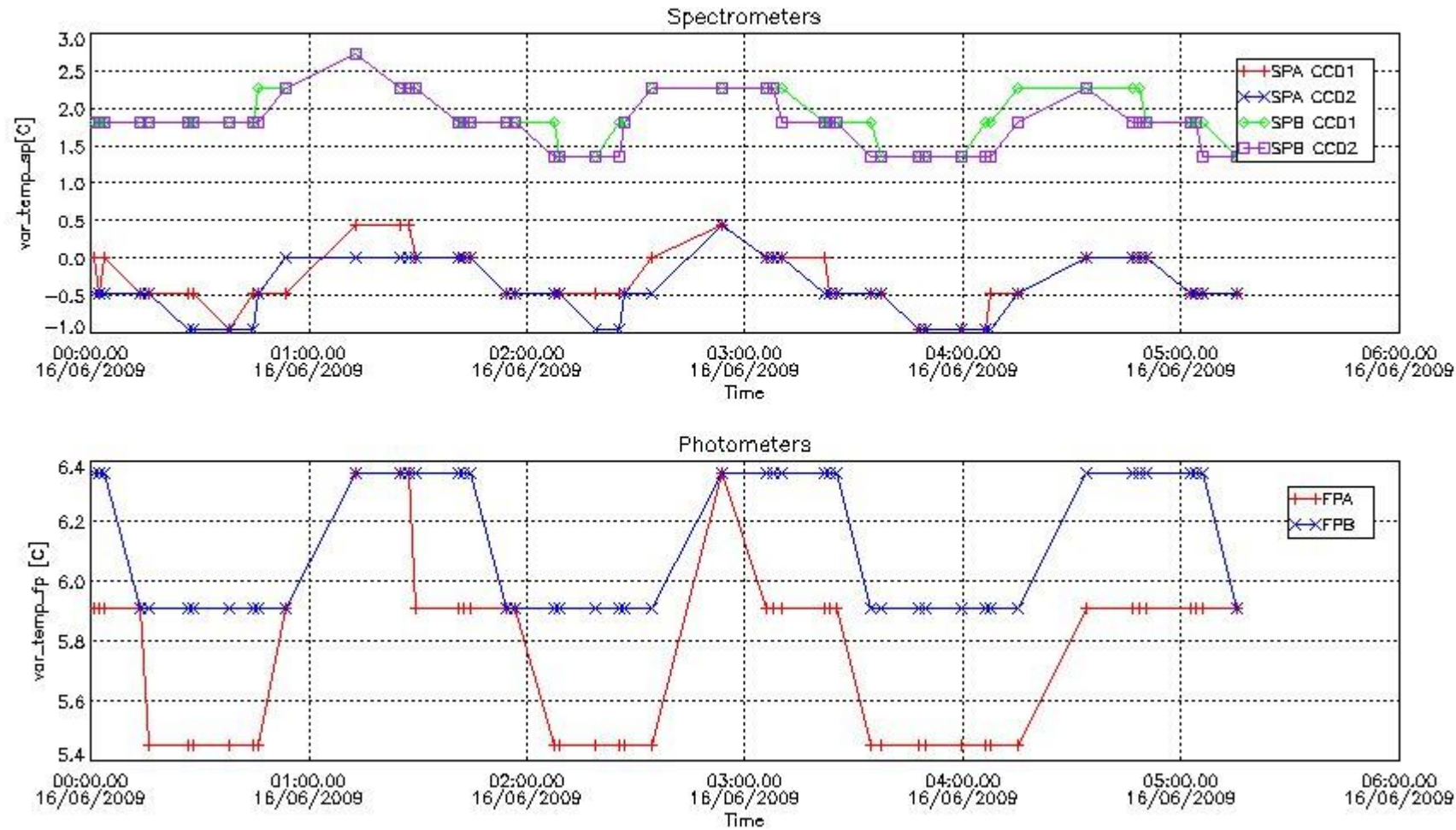
No missing products.

2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090616_000043_000000332080_00002_38132_9655.N1	16-JUN-2009 00:00:43	Twilight	33.000	103	38Zet Sgr	2.6000	9700.0	66	38132	No
2	GOM_TRA_1PNPDE20090616_000211_000000342080_00002_38132_9656.N1	16-JUN-2009 00:02:11	Twilight	33.500	57	34Sig Sgr	2.0660	26000.	67	38132	No
3	GOM_TRA_1PNPDE20090616_000358_000000282080_00002_38132_9657.N1	16-JUN-2009 00:03:58	Twilight	28.000	155	41Pi Sgr	2.9000	6600.0	56	38132	No
4	GOM_TRA_1PNPDE20090616_001333_000000322080_00002_38132_9658.N1	16-JUN-2009 00:13:33	Bright	31.500	126	60Bet Oph	2.7700	4250.0	63	38132	No
5	GOM_TRA_1PNPDE20090616_001604_000000312080_00002_38132_9659.N1	16-JUN-2009 00:16:04	Bright	31.000	59	55Alp Oph	2.0800	8900.0	62	38132	No
6	GOM_TRA_1PNPDE20090616_002645_000000382080_00002_38132_9660.N1	16-JUN-2009 00:26:45	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	38132	No
7	GOM_TRA_1PNPDE20090616_002822_000000312080_00002_38132_9661.N1	16-JUN-2009 00:28:22	Bright	30.500	69	33Gam Dra	2.2310	3800.0	61	38132	No
8	GOM_TRA_1PNPDE20090616_003817_000000322080_00002_38132_9662.N1	16-JUN-2009 00:38:17	Twilight	31.500	89	5Alp Cep	2.4510	8000.0	63	38132	No
9	GOM_TRA_1PNPDE20090616_004443_000000272080_00002_38132_9663.N1	16-JUN-2009 00:44:43	Twilight	26.500	74	11Bet Cas	2.2680	6600.0	53	38132	No
10	GOM_TRA_1PNPDE20090616_004606_000000262080_00002_38132_9664.N1	16-JUN-2009 00:46:06	Twilight	25.500	68	18Alp Cas	2.2250	4500.0	51	38132	No
11	GOM_TRA_1PNPDE20090616_005337_000000262080_00002_38132_9665.N1	16-JUN-2009 00:53:37	Twilight	26.000	53	43Bet And	2.0480	3300.0	52	38132	No
12	GOM_TRA_1PNPDE20090616_011252_000000342080_00002_38132_9732.N1	16-JUN-2009 01:12:52	Dark	33.500	52	16Bet Cet	2.0370	4500.0	67	38132	No

13	GOM_TRA_1PNPDE20090616_012518_000000342080_00003_38133_9733.N1	16-JUN-2009 01:25:18	Dark	34.000	63	Bet Gru	2.1500	2800.0	68	38133	No
14	GOM_TRA_1PNPDE20090616_012721_000000352080_00003_38133_9734.N1	16-JUN-2009 01:27:21	Dark	34.500	31	Alp Gru	1.7340	15200.	69	38133	No
15	GOM_TRA_1PNPDE20090616_012918_000000432080_00003_38133_9735.N1	16-JUN-2009 01:29:18	Straylight	42.500	172	Gam Gru	3.0030	13100.	85	38133	No
16	GOM_TRA_1PNPDE20090616_014119_000000342080_00003_38133_9736.N1	16-JUN-2009 01:41:19	Tw_i_and_stray	33.500	103	38Zet Sgr	2.6000	9700.0	67	38133	No
17	GOM_TRA_1PNPDE20090616_014247_000000342080_00003_38133_9737.N1	16-JUN-2009 01:42:47	Tw_i_and_stray	33.500	57	34Sig Sgr	2.0660	26000.	67	38133	No
18	GOM_TRA_1PNPDE20090616_014434_000000282080_00003_38133_9738.N1	16-JUN-2009 01:44:34	Tw_i_and_stray	28.000	155	41Pi Sgr	2.9000	6600.0	56	38133	No
19	GOM_TRA_1PNPDE20090616_015408_000000312080_00003_38133_9739.N1	16-JUN-2009 01:54:08	Bright	31.000	126	60Bet Oph	2.7700	4250.0	62	38133	No
20	GOM_TRA_1PNPDE20090616_015639_000000322080_00003_38133_9740.N1	16-JUN-2009 01:56:39	Bright	31.500	59	55Alp Oph	2.0800	8900.0	63	38133	No
21	GOM_TRA_1PNPDE20090616_020720_000000382080_00003_38133_9741.N1	16-JUN-2009 02:07:20	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	38133	No
22	GOM_TRA_1PNPDE20090616_020857_000000312080_00003_38133_9742.N1	16-JUN-2009 02:08:57	Bright	30.500	69	33Gam Dra	2.2310	3800.0	61	38133	No
23	GOM_TRA_1PNPDE20090616_021852_000000312080_00003_38133_9743.N1	16-JUN-2009 02:18:52	Tw_i_and_stray	31.000	89	5Alp Cep	2.4510	8000.0	62	38133	No
24	GOM_TRA_1PNPDE20090616_022518_000000272080_00003_38133_9818.N1	16-JUN-2009 02:25:18	Tw_i_and_stray	26.500	74	11Bet Cas	2.2680	6600.0	53	38133	No
25	GOM_TRA_1PNPDE20090616_022642_000000262080_00003_38133_9819.N1	16-JUN-2009 02:26:42	Tw_i_and_stray	25.500	68	18Alp Cas	2.2250	4500.0	51	38133	No
26	GOM_TRA_1PNPDE20090616_023413_000000262080_00003_38133_9820.N1	16-JUN-2009 02:34:13	Tw_i_and_stray	25.500	53	43Bet And	2.0480	3300.0	51	38133	No
27	GOM_TRA_1PNPDE20090616_025329_000000342080_00003_38133_9821.N1	16-JUN-2009 02:53:29	Dark	34.000	52	16Bet Cet	2.0370	4500.0	68	38133	No
28	GOM_TRA_1PNPDE20090616_030555_000000342080_00004_38134_9822.N1	16-JUN-2009 03:05:55	Dark	34.000	63	Bet Gru	2.1500	2800.0	68	38134	No
29	GOM_TRA_1PNPDE20090616_030758_000000352080_00004_38134_9823.N1	16-JUN-2009 03:07:58	Dark	34.500	31	Alp Gru	1.7340	15200.	69	38134	No
30	GOM_TRA_1PNPDE20090616_030955_000000432080_00004_38134_9824.N1	16-JUN-2009 03:09:55	Straylight	42.500	172	Gam Gru	3.0030	13100.	85	38134	No
31	GOM_TRA_1PNPDE20090616_032156_000000332080_00004_38134_9825.N1	16-JUN-2009 03:21:56	Tw_i_and_stray	33.000	103	38Zet Sgr	2.6000	9700.0	66	38134	No
32	GOM_TRA_1PNPDE20090616_032324_000000342080_00004_38134_9826.N1	16-JUN-2009 03:23:24	Tw_i_and_stray	33.500	57	34Sig Sgr	2.0660	26000.	67	38134	No
33	GOM_TRA_1PNPDE20090616_032511_000000322080_00004_38134_9827.N1	16-JUN-2009 03:25:11	Tw_i_and_stray	32.000	155	41Pi Sgr	2.9000	6600.0	64	38134	No
34	GOM_TRA_1PNPDE20090616_033444_000000312080_00004_38134_9828.N1	16-JUN-2009 03:34:44	Bright	31.000	126	60Bet Oph	2.7700	4250.0	62	38134	No
35	GOM_TRA_1PNPDE20090616_033715_000000312080_00004_38134_9829.N1	16-JUN-2009 03:37:15	Bright	31.000	59	55Alp Oph	2.0800	8900.0	62	38134	No
36	GOM_TRA_1PNPDE20090616_034755_000000382080_00004_38134_9830.N1	16-JUN-2009 03:47:55	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	38134	No
37	GOM_TRA_1PNPDE20090616_034933_000000302080_00004_38134_9831.N1	16-JUN-2009 03:49:33	Bright	30.000	69	33Gam Dra	2.2310	3800.0	60	38134	No
38	GOM_TRA_1PNPDE20090616_035927_000000322080_00004_38134_9919.N1	16-JUN-2009 03:59:27	Tw_i_and_stray	31.500	89	5Alp Cep	2.4510	8000.0	63	38134	No
39	GOM_TRA_1PNPDE20090616_040554_000000272080_00004_38134_9920.N1	16-JUN-2009 04:05:54	Tw_i_and_stray	26.500	74	11Bet Cas	2.2680	6600.0	53	38134	No
40	GOM_TRA_1PNPDE20090616_040717_000000262080_00004_38134_9921.N1	16-JUN-2009 04:07:17	Tw_i_and_stray	25.500	68	18Alp Cas	2.2250	4500.0	51	38134	No
41	GOM_TRA_1PNPDE20090616_041449_000000262080_00004_38134_9922.N1	16-JUN-2009 04:14:49	Tw_i_and_stray	25.500	53	43Bet And	2.0480	3300.0	51	38134	No
42	GOM_TRA_1PNPDE20090616_043406_000000342080_00004_38134_9923.N1	16-JUN-2009 04:34:06	Dark	33.500	52	16Bet Cet	2.0370	4500.0	67	38134	No
43	GOM_TRA_1PNPDE20090616_044632_000000342080_00005_38135_9924.N1	16-JUN-2009 04:46:32	Dark	34.000	63	Bet Gru	2.1500	2800.0	68	38135	No
44	GOM_TRA_1PNPDE20090616_044835_000000352080_00005_38135_9925.N1	16-JUN-2009 04:48:35	Dark	34.500	31	Alp Gru	1.7340	15200.	69	38135	No
45	GOM_TRA_1PNPDE20090616_045032_000000432080_00005_38135_9926.N1	16-JUN-2009 04:50:32	Straylight	42.500	172	Gam Gru	3.0030	13100.	85	38135	No
46	GOM_TRA_1PNPDE20090616_050232_000000332080_00005_38135_9927.N1	16-JUN-2009 05:02:32	Tw_i_and_stray	33.000	103	38Zet Sgr	2.6000	9700.0	66	38135	No
47	GOM_TRA_1PNPDE20090616_050400_000000342080_00005_38135_9928.N1	16-JUN-2009 05:04:00	Tw_i_and_stray	34.000	57	34Sig Sgr	2.0660	26000.	68	38135	No
48	GOM_TRA_1PNPDE20090616_050547_000000322080_00005_38135_9929.N1	16-JUN-2009 05:05:47	Tw_i_and_stray	32.000	155	41Pi Sgr	2.9000	6600.0	64	38135	No
49	GOM_TRA_1PNPDE20090616_051520_000000312080_00005_38135_9930.N1	16-JUN-2009 05:15:20	Bright	31.000	126	60Bet Oph	2.7700	4250.0	62	38135	No

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



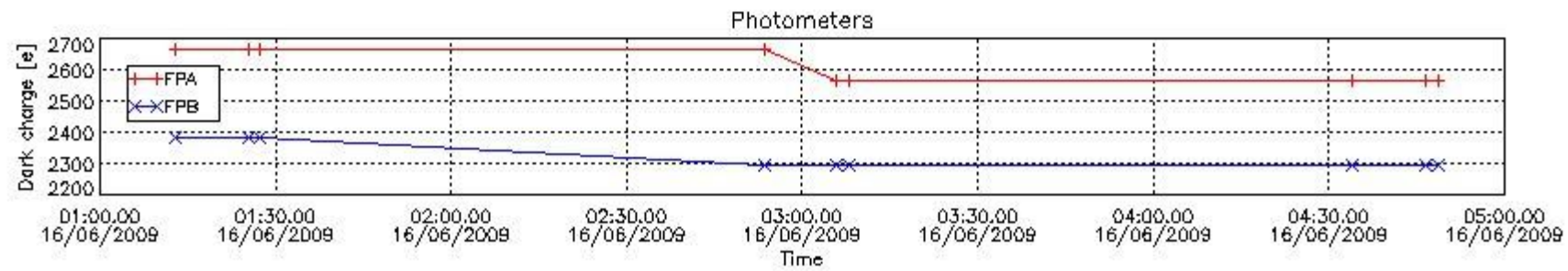
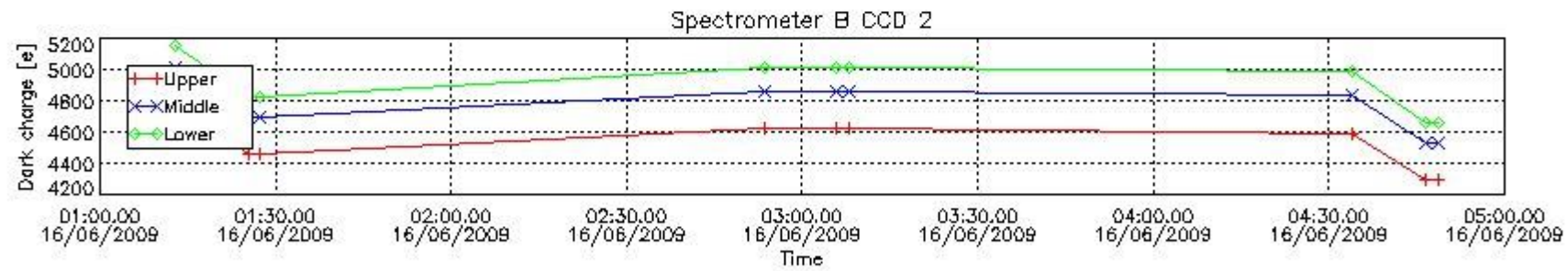
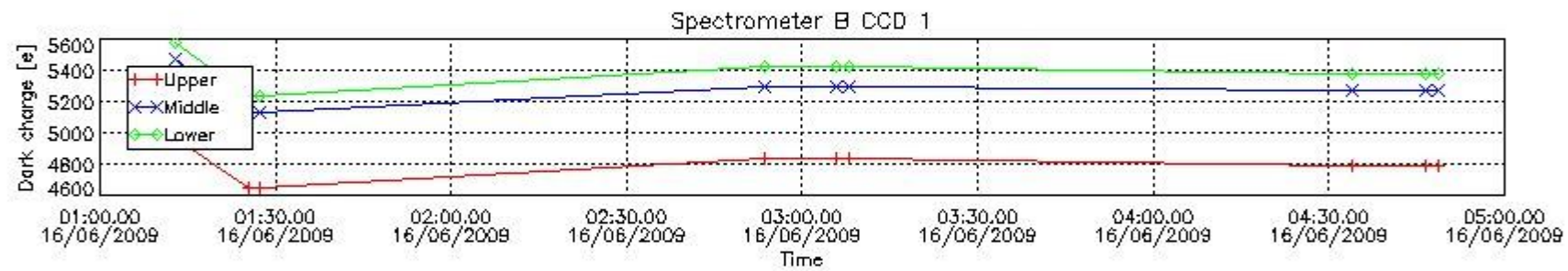
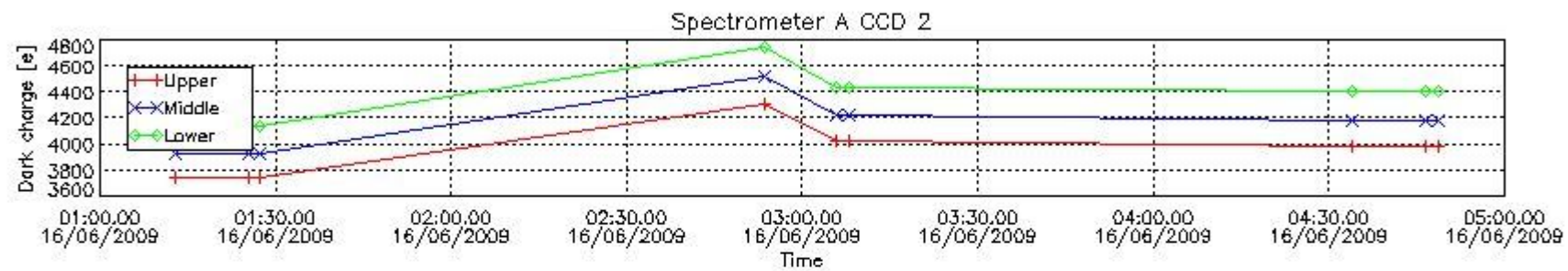
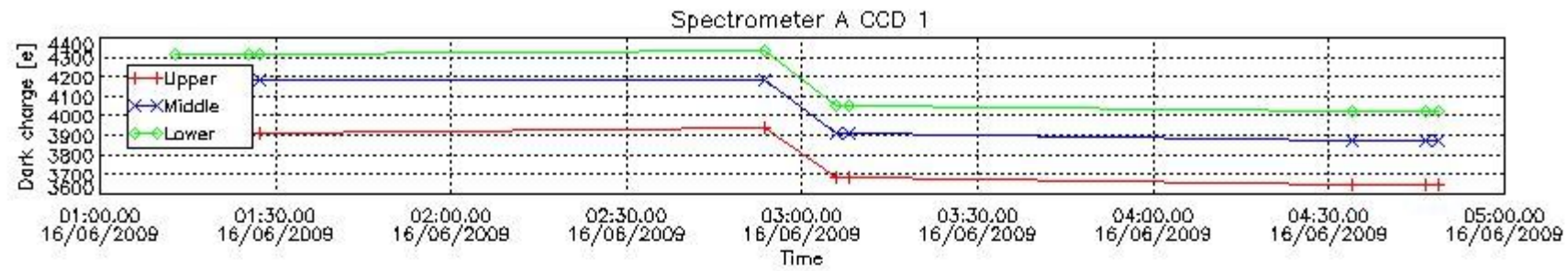
4. Overview of dark signal processing per product

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



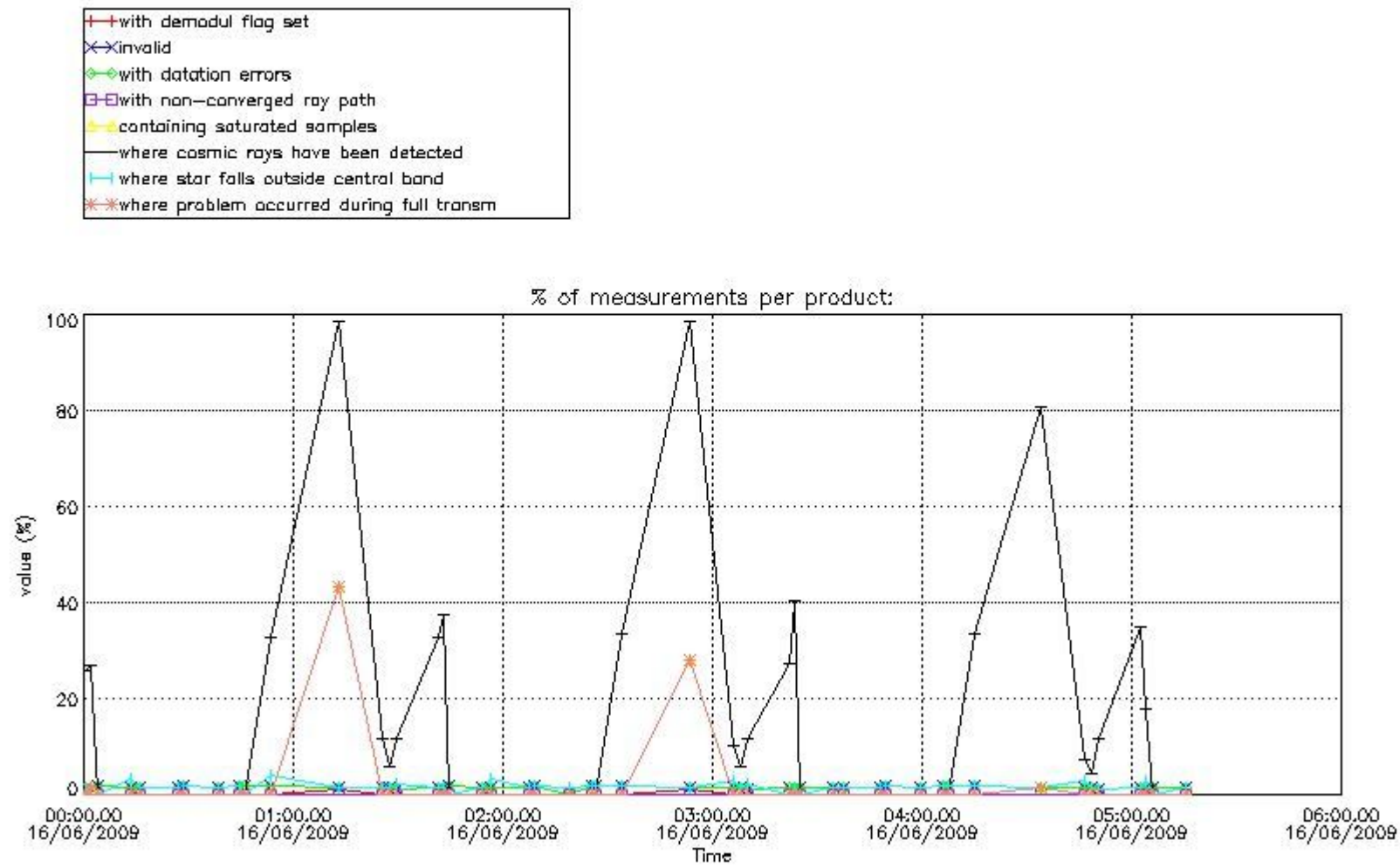
5. Demodulation flag and quality information monitoring

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.

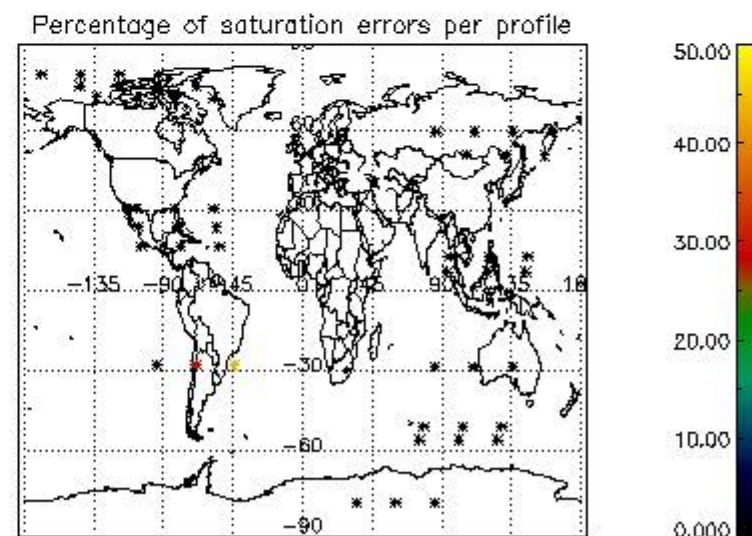
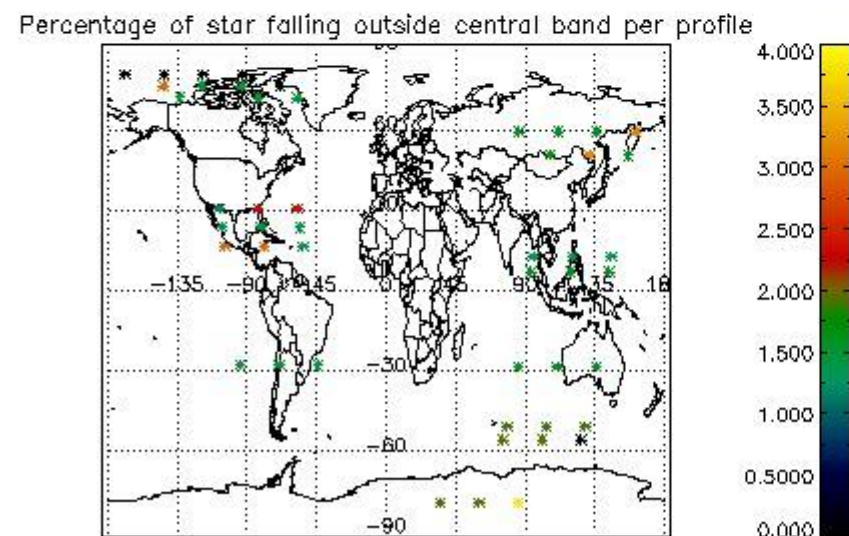
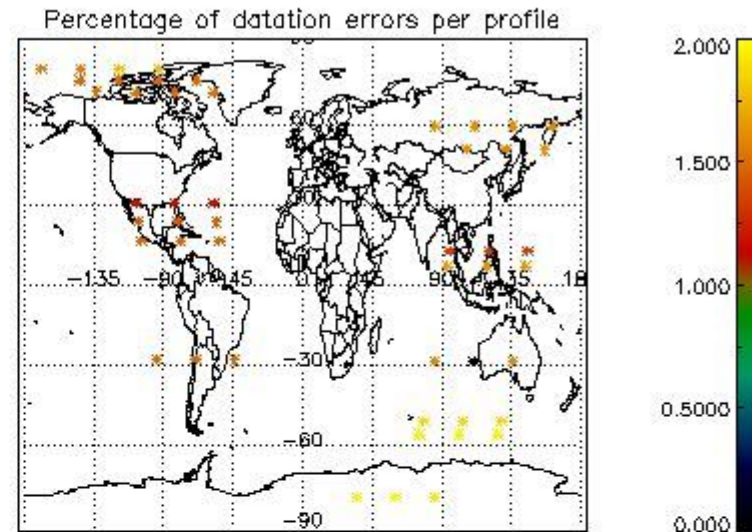
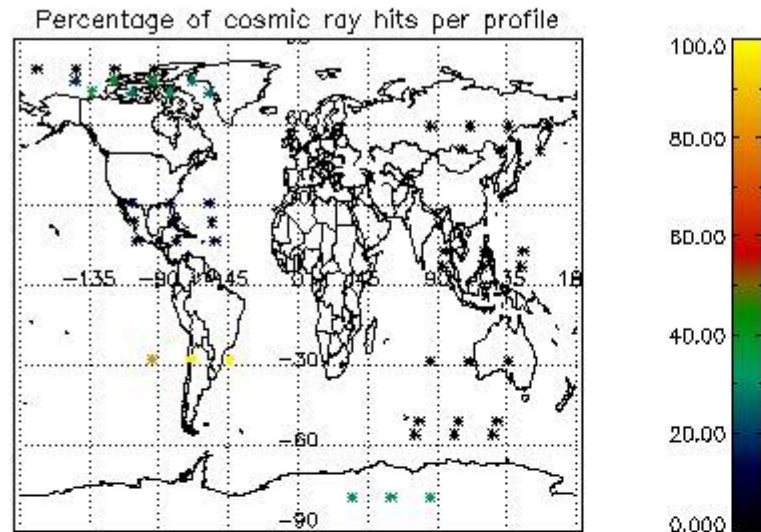
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	32.6531 %
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)



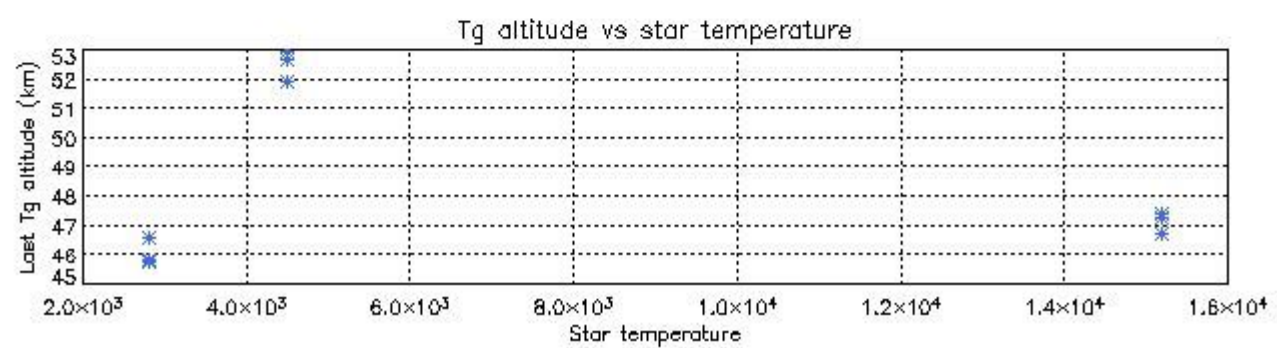
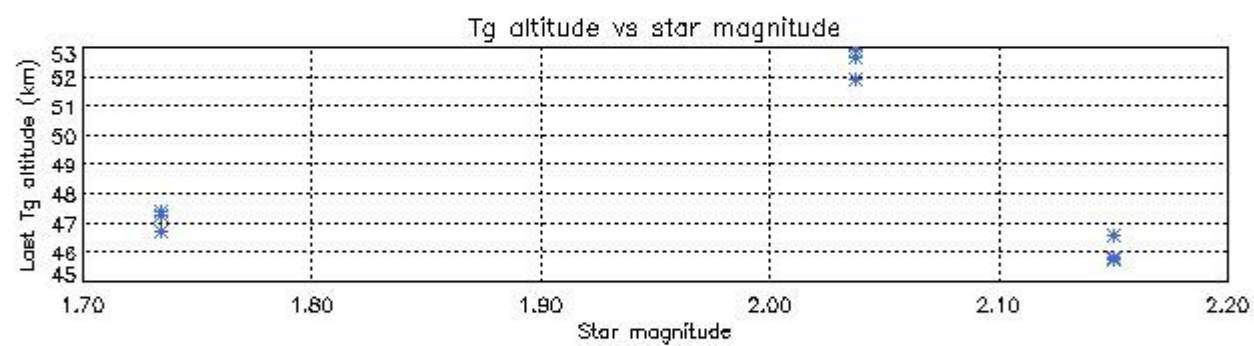
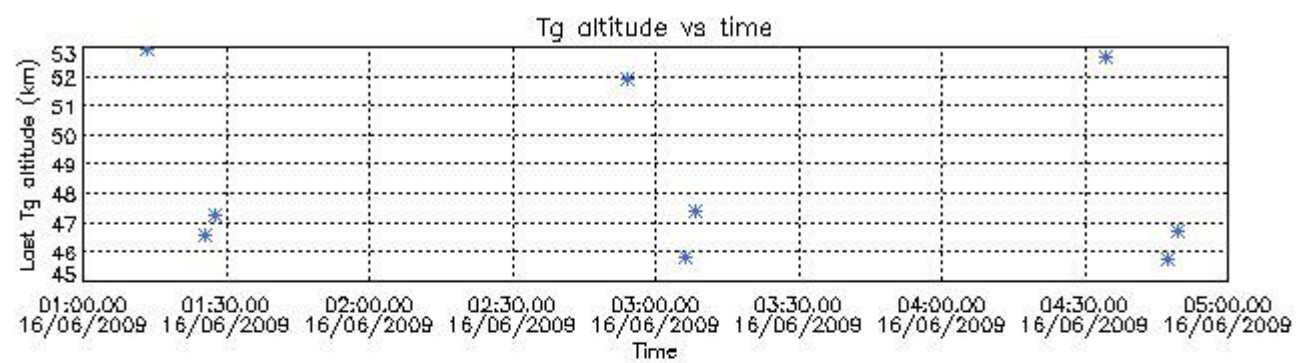
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	48.551	48.637	NaN
St. deviation:	3.0248	1.0569	NaN
Maximum:	52.954	50.399	NaN
Minimum:	45.755	47.217	NaN
Number of data:	9.0000	13.000	NaN

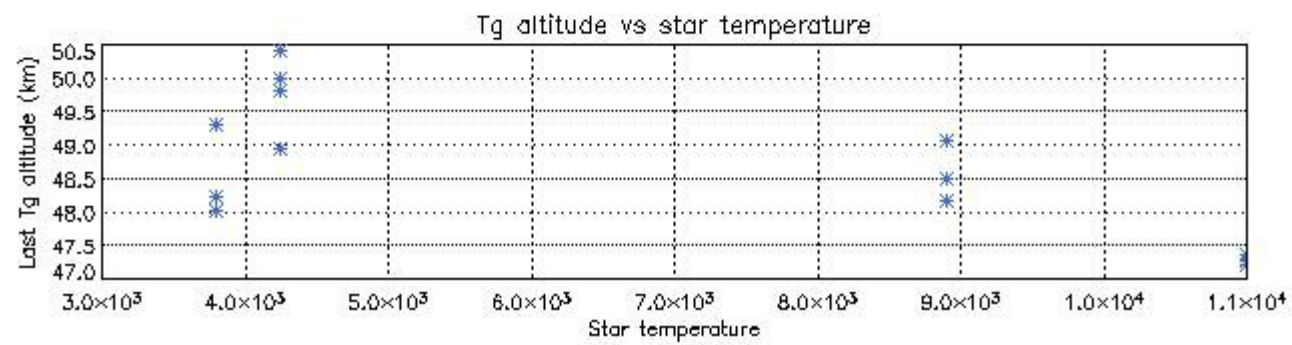
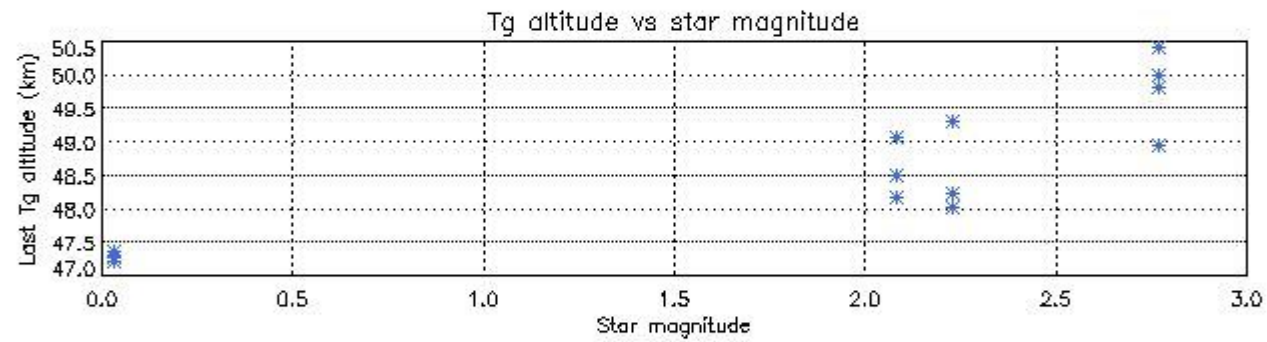
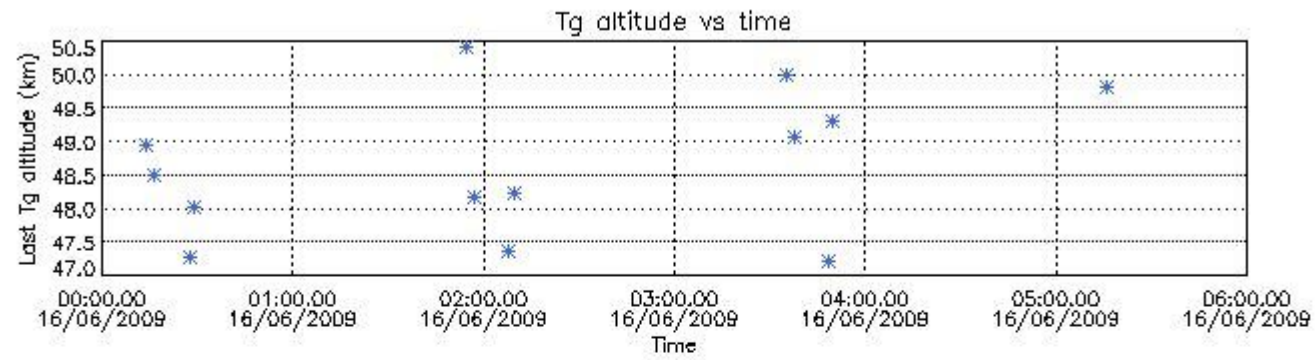
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

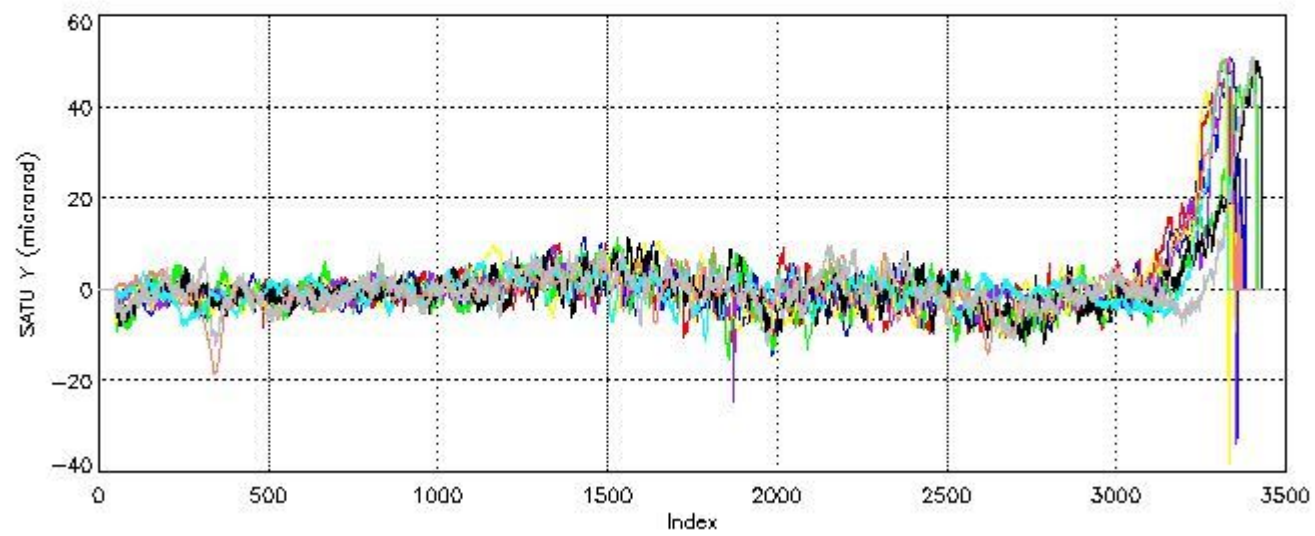
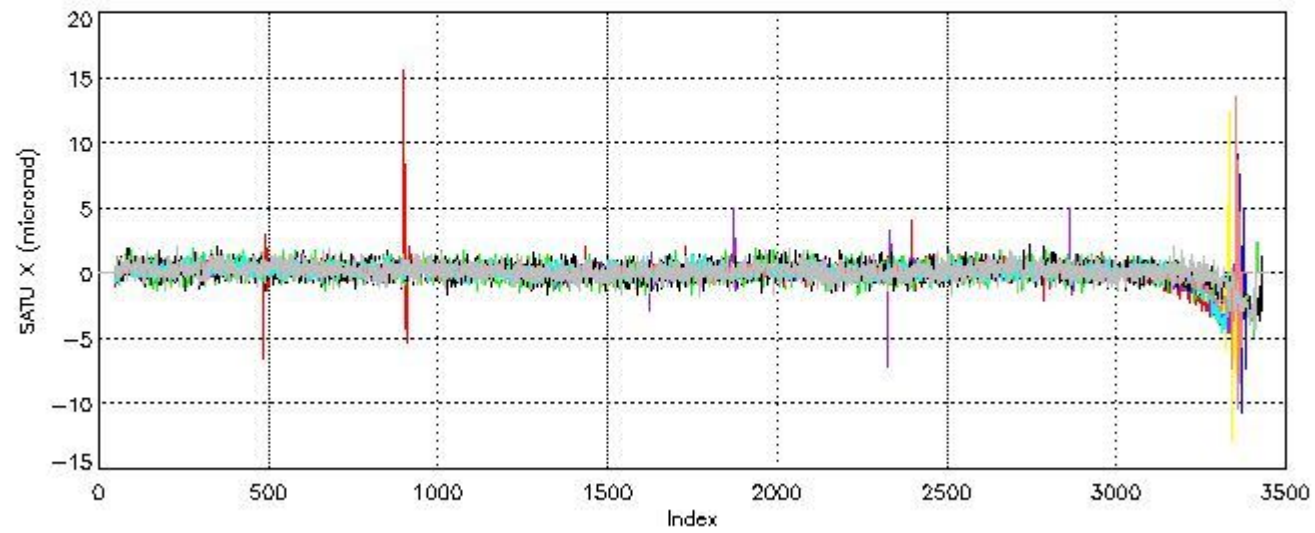


7. Star Acquisition and Tracking Unit (SATU)

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:	0.26088	-1.0138	0.33577	-1.0345
St. deviation:	0.39735	2.3953	0.54309	1.8154
Maximum:	15.500	7.4000	3.0000	6.2000
Minimum:	-6.6000	-18.500	-2.3000	-10.000

Number of data:	10250.	10250.	13500.	13500.
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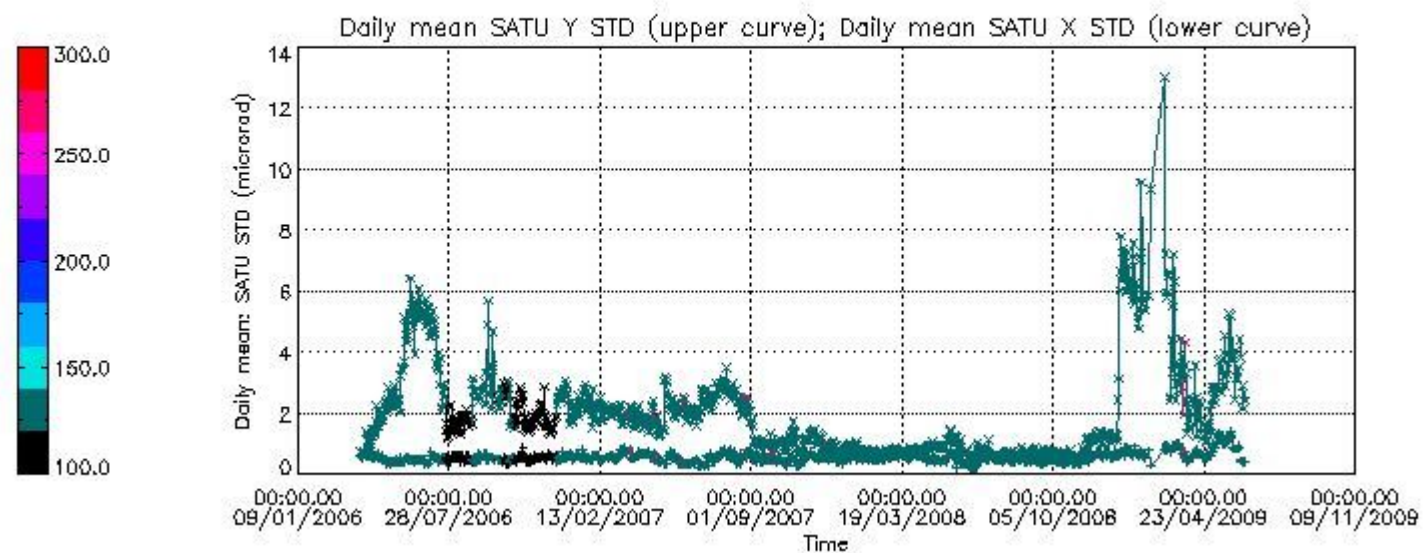
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

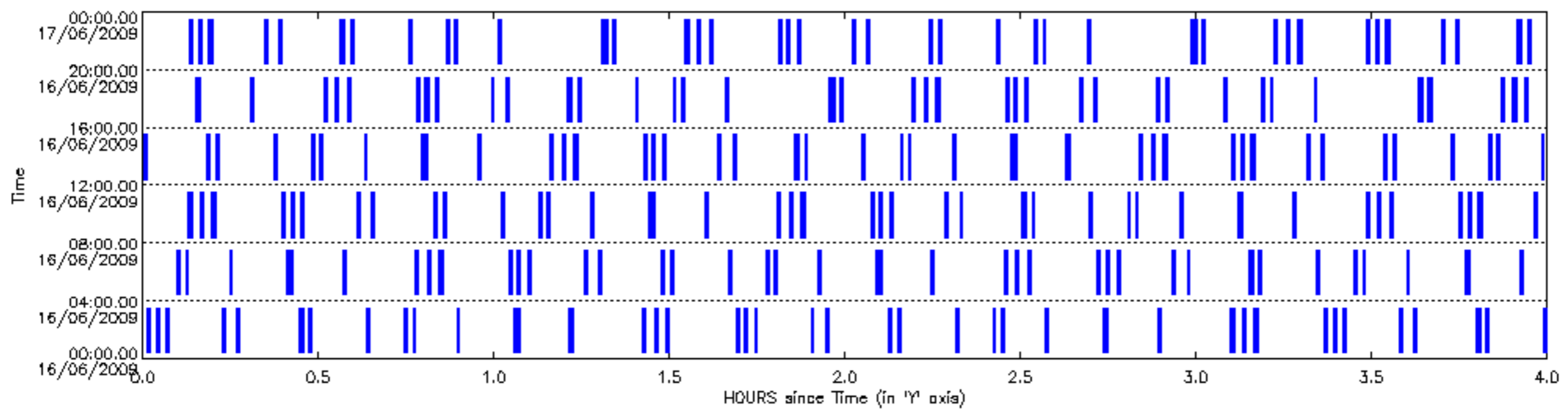
Lower curve: STD of SATU X axis

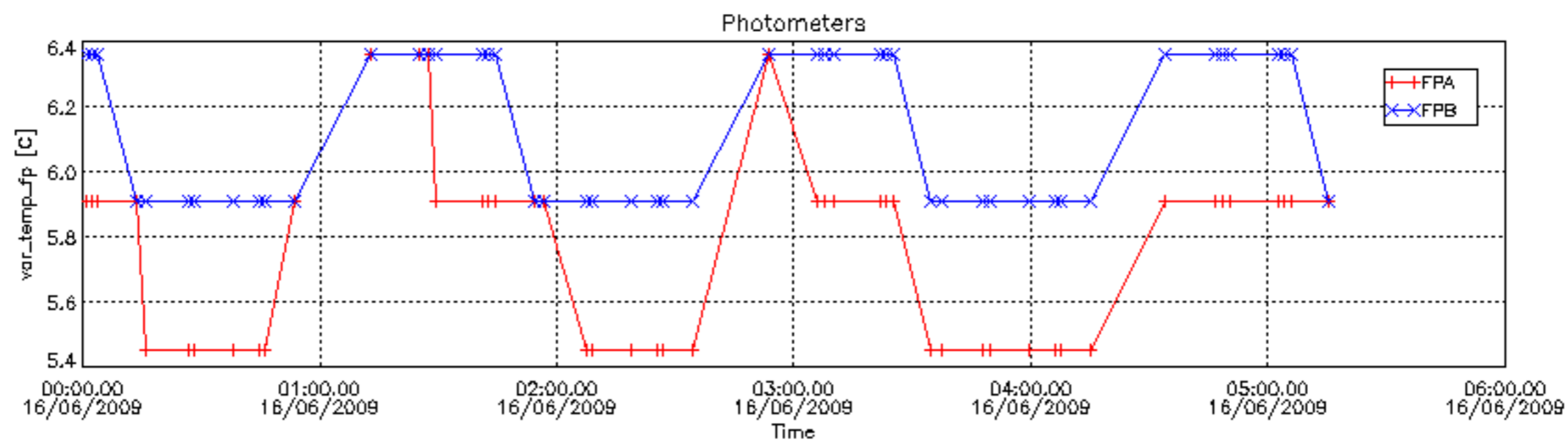
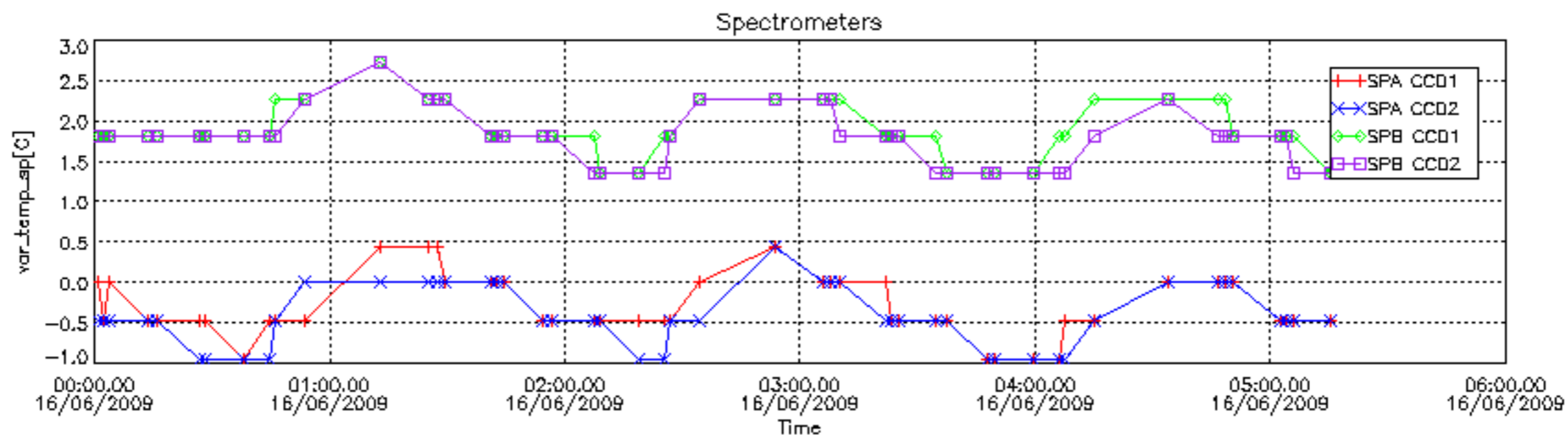


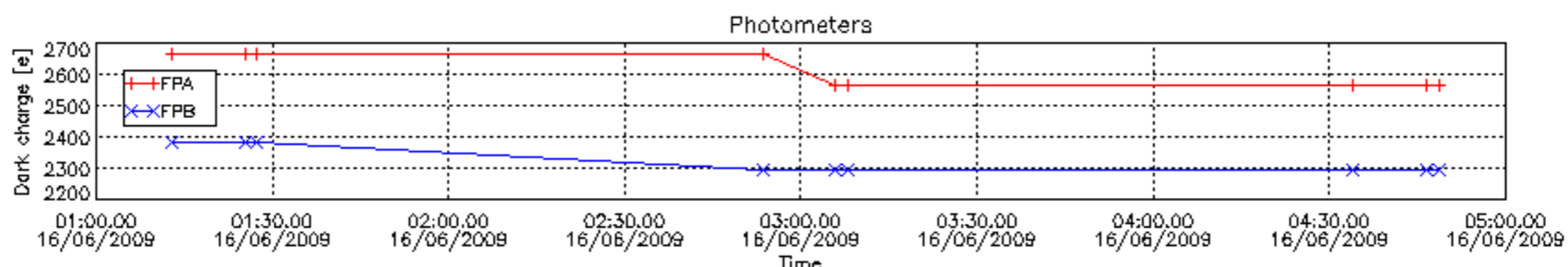
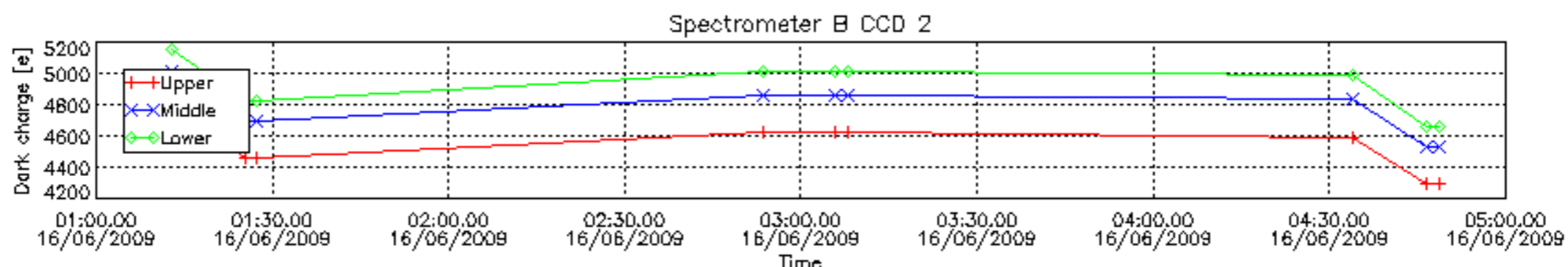
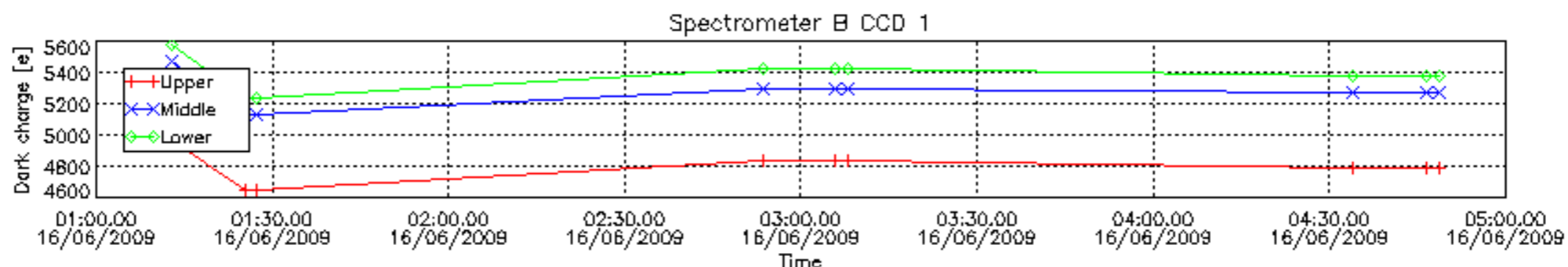
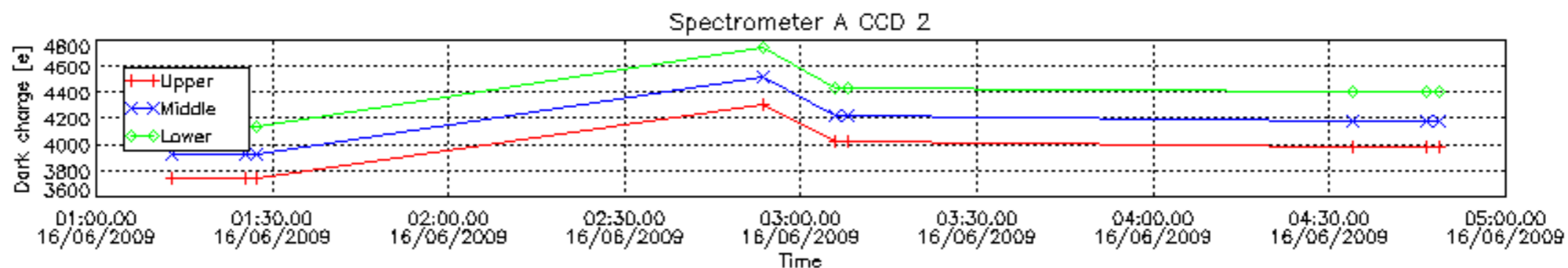
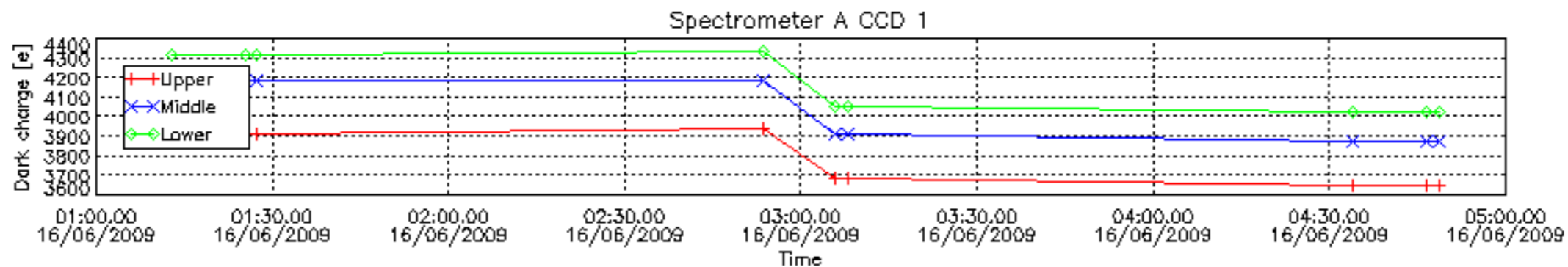
8. Auxiliary Data Files used for the production reported in section 2.4

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.

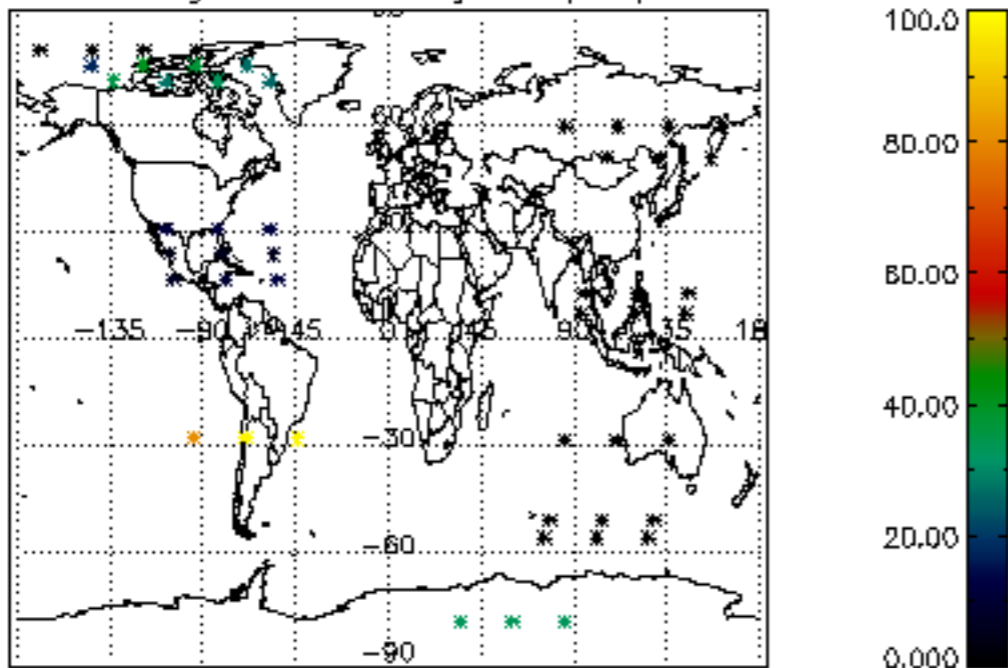
Type	Auxiliary Filename	Used since product	Used since product date
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090615_121800_20090613_000000_20100101_000000	1	16-JUN-2009 00:00:43
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	16-JUN-2009 00:00:43
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	16-JUN-2009 00:00:43
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	16-JUN-2009 00:00:43
ECMWF_FILE	AUX_ECF_AXNECM20090615_064112_20090615_210000_20090616_090000	1	16-JUN-2009 00:00:43
ECMWF_FILE	AUX_ECF_AXNECM20090615_184111_20090616_030000_20090616_150000	38	16-JUN-2009 03:59:27
OPTIONAL_ECMWF_FILE	MISSING	1	16-JUN-2009 00:00:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090615_221030_000041442080_00001_38131_8159.N1	1	16-JUN-2009 00:00:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090615_232453_000054192080_00001_38131_8160.N1	12	16-JUN-2009 01:12:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090616_010031_000044632080_00002_38132_8161.N1	24	16-JUN-2009 02:25:18
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090616_022013_000054192080_00003_38133_8162.N1	38	16-JUN-2009 03:59:27



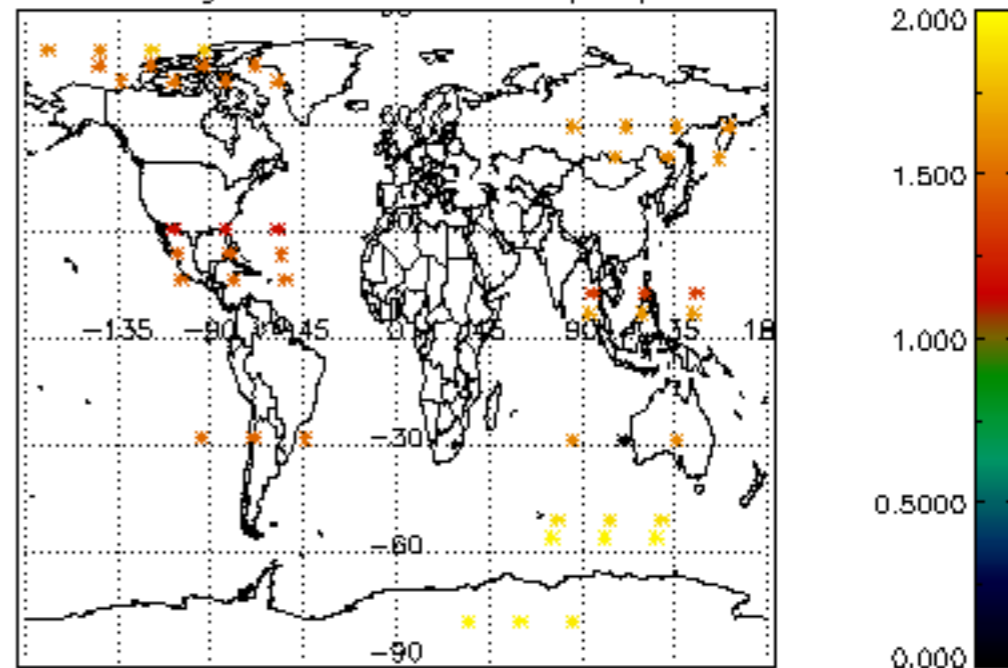




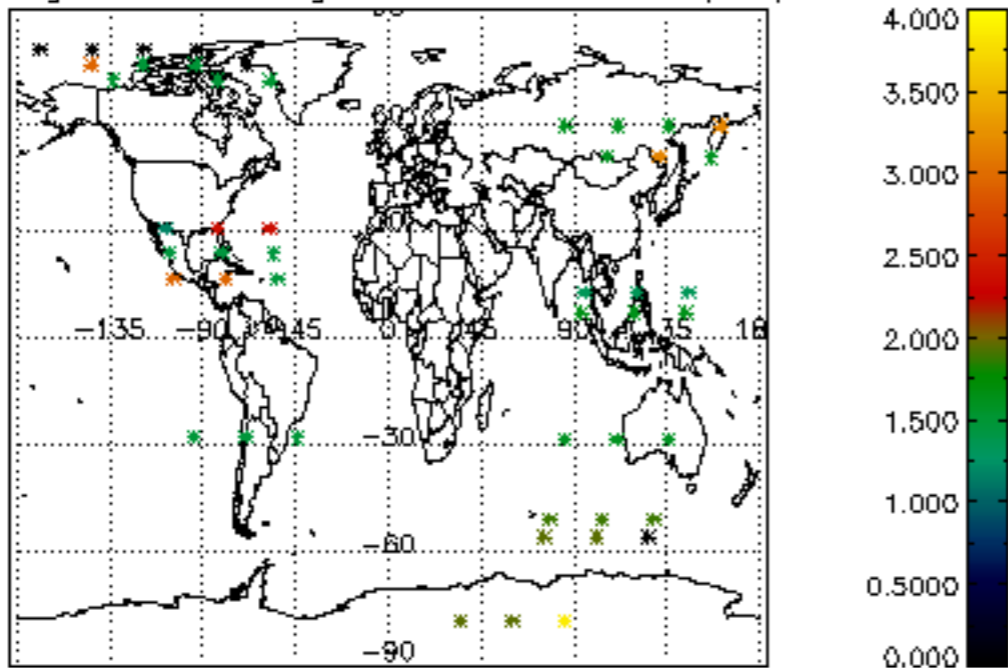
Percentage of cosmic ray hits per profile



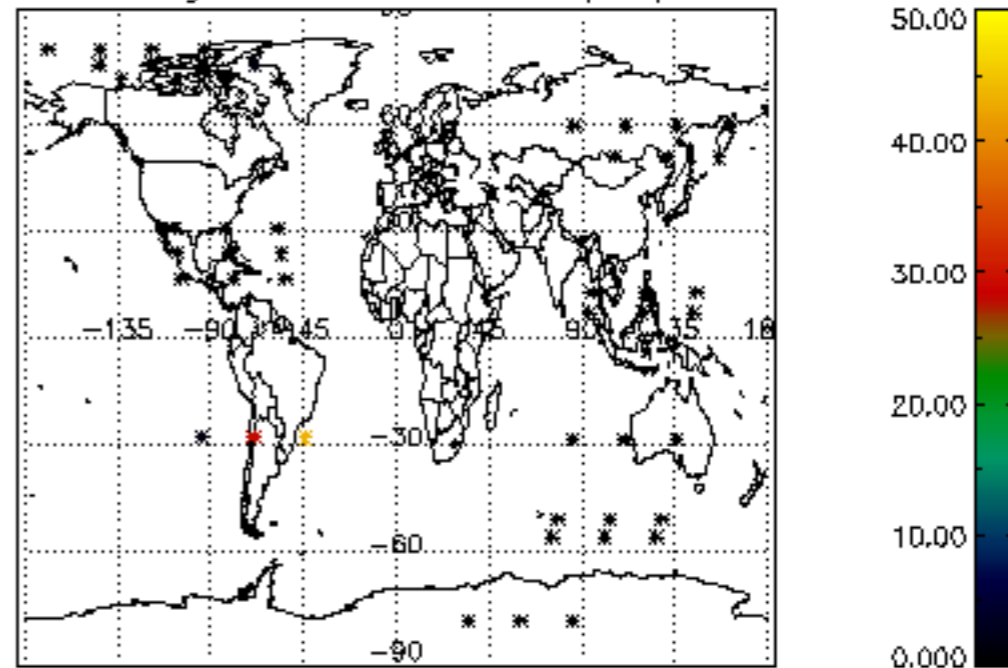
Percentage of datation errors per profile



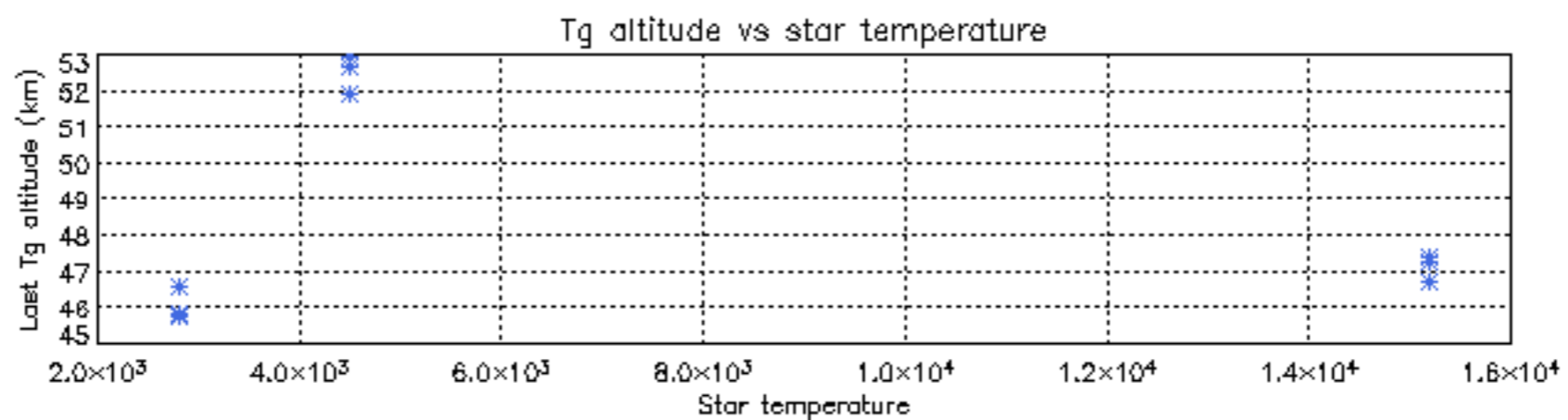
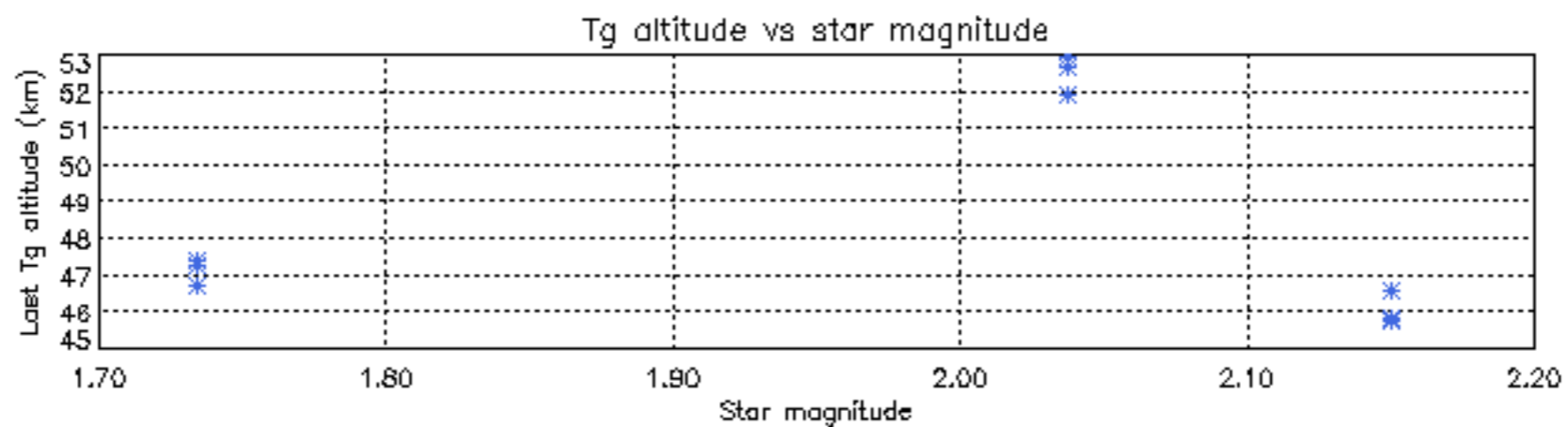
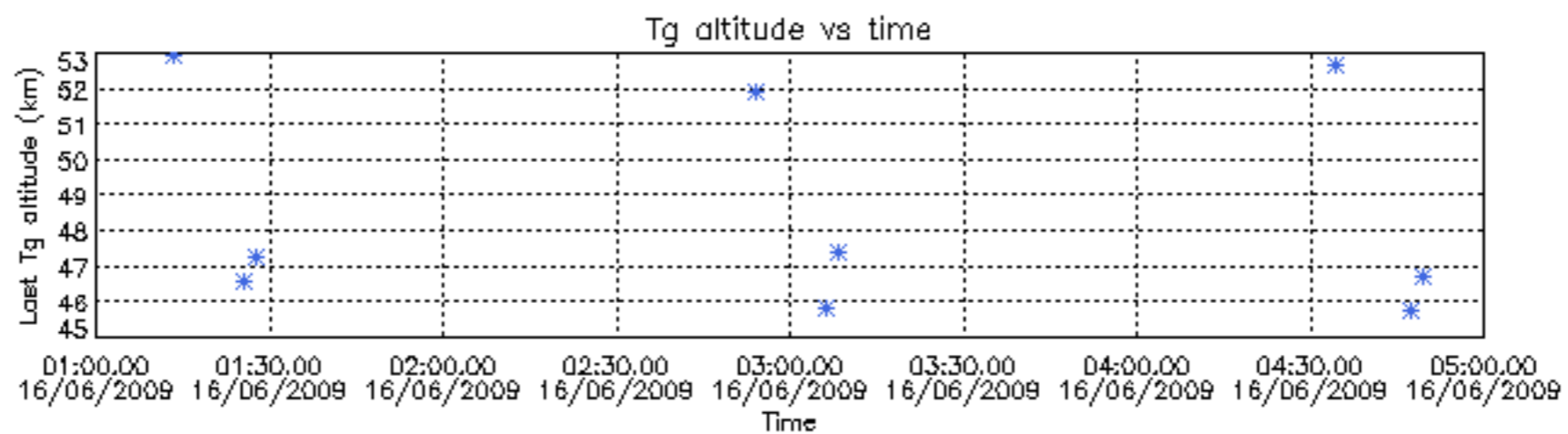
Percentage of star falling outside central band per profile



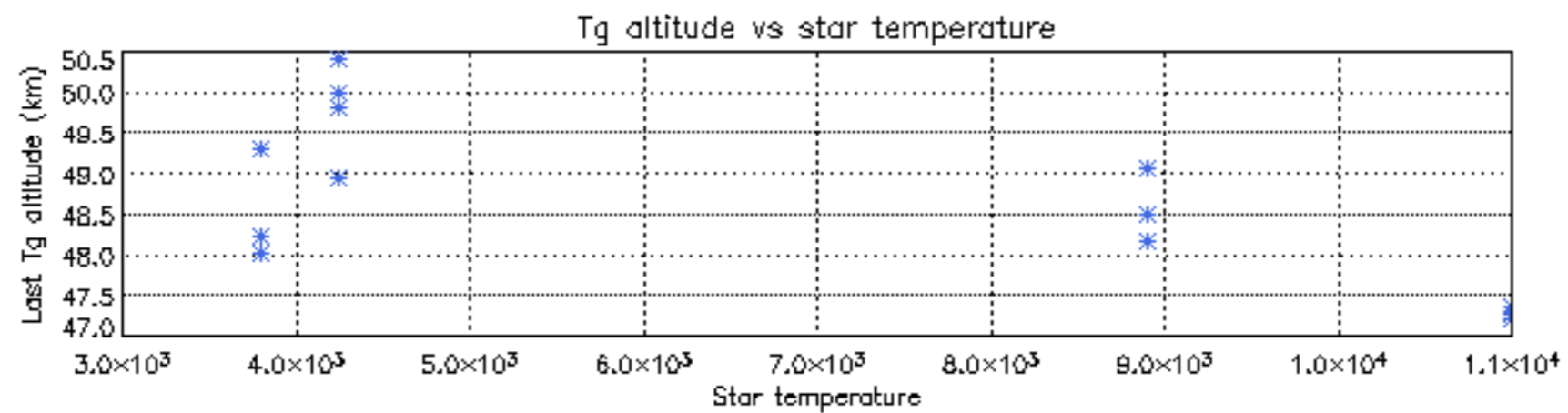
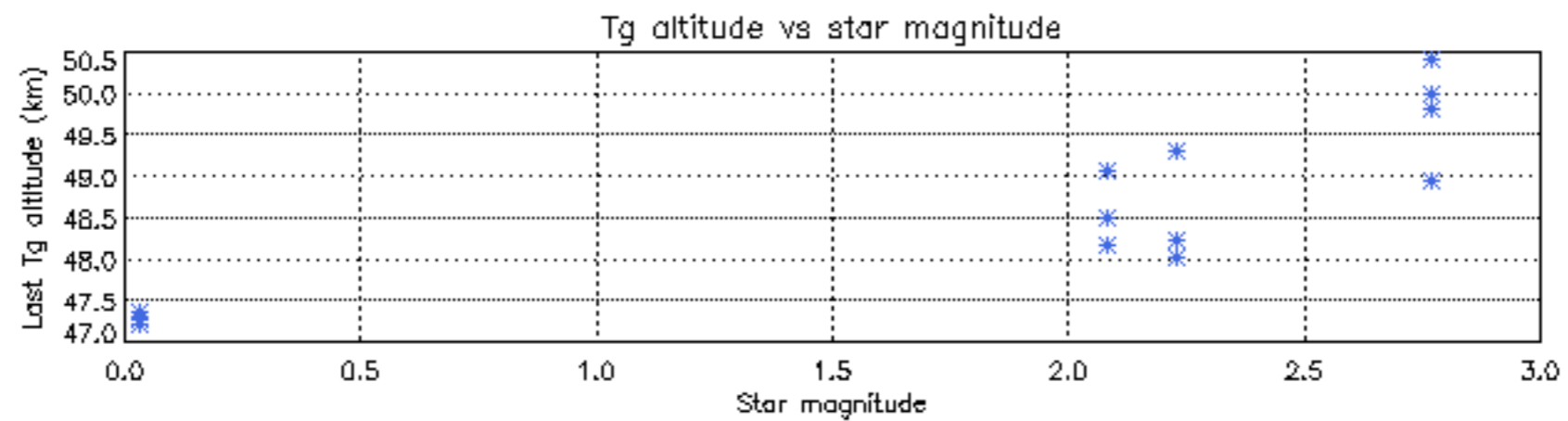
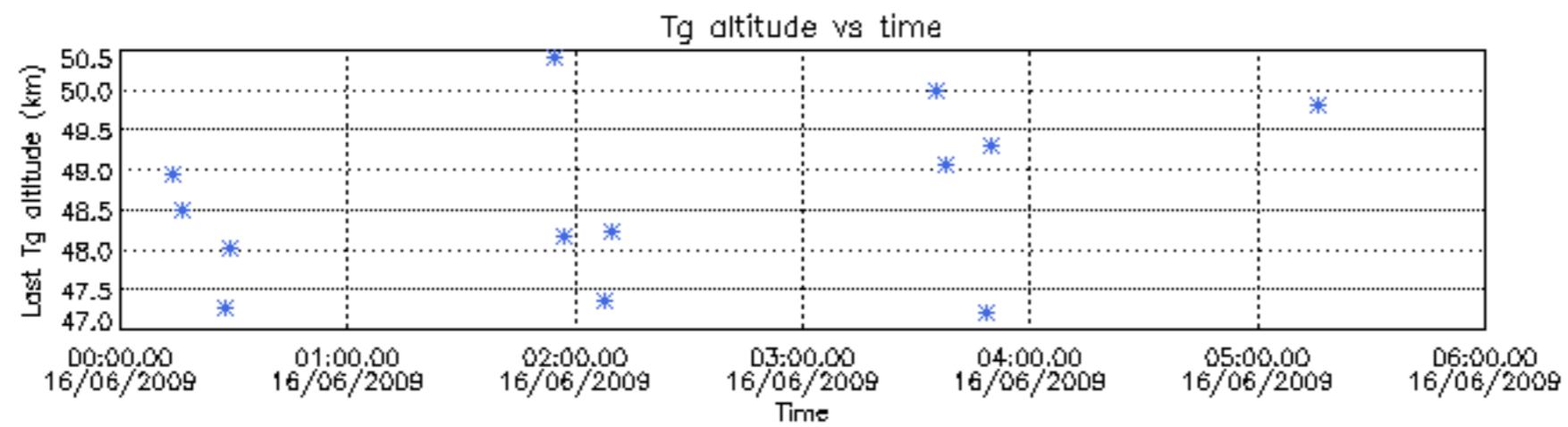
Percentage of saturation errors per profile

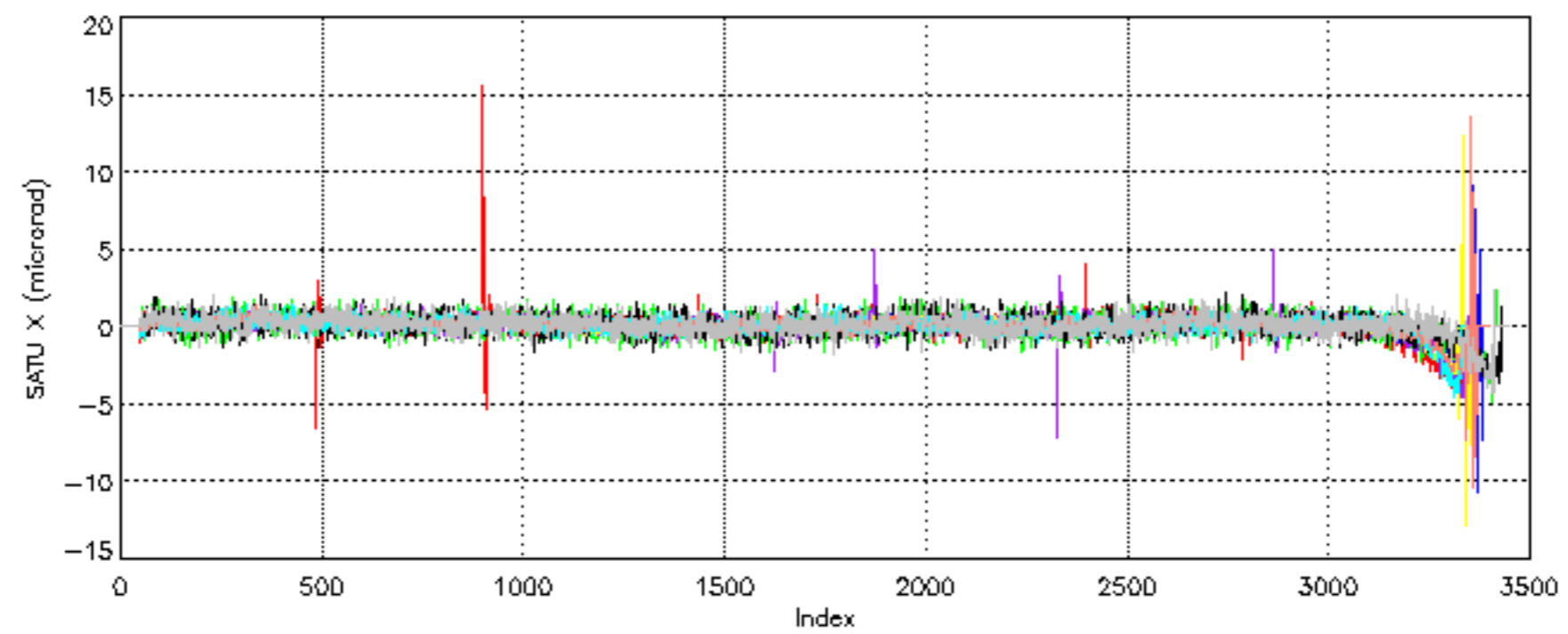


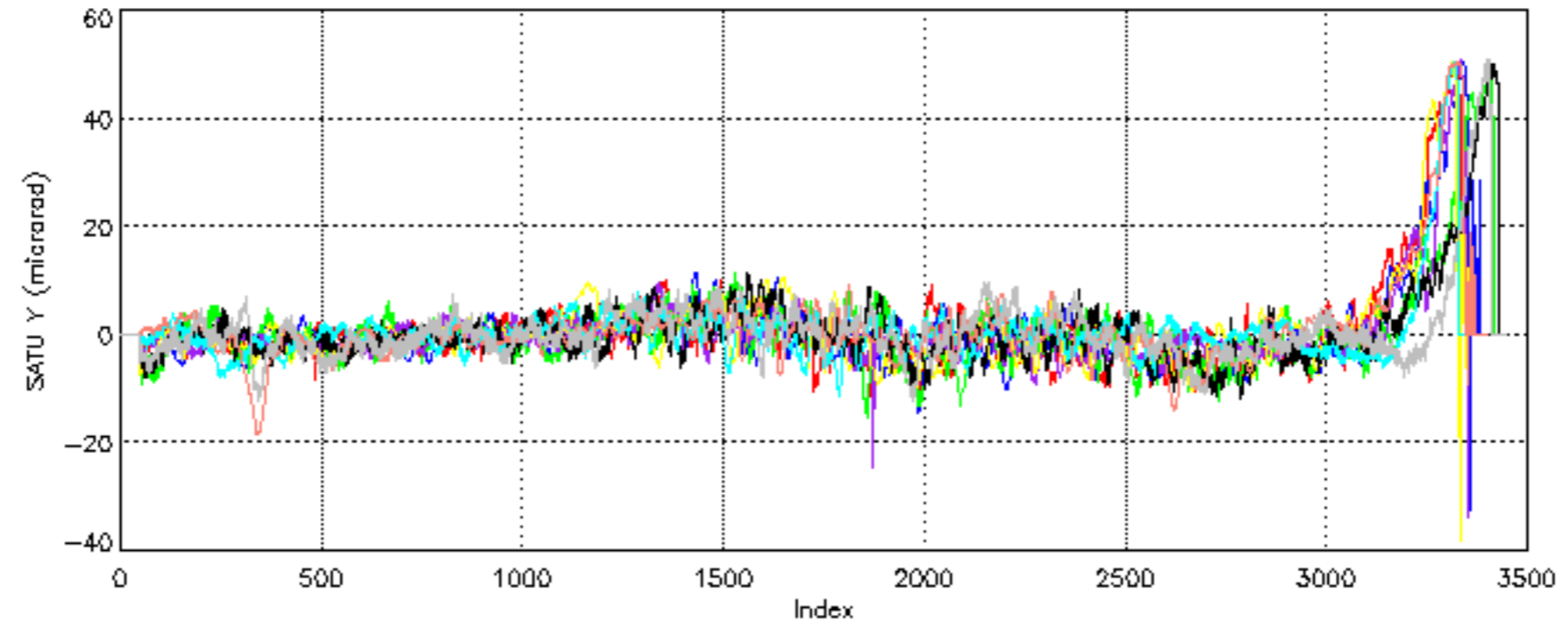
Tangent altitude at which the star is lost

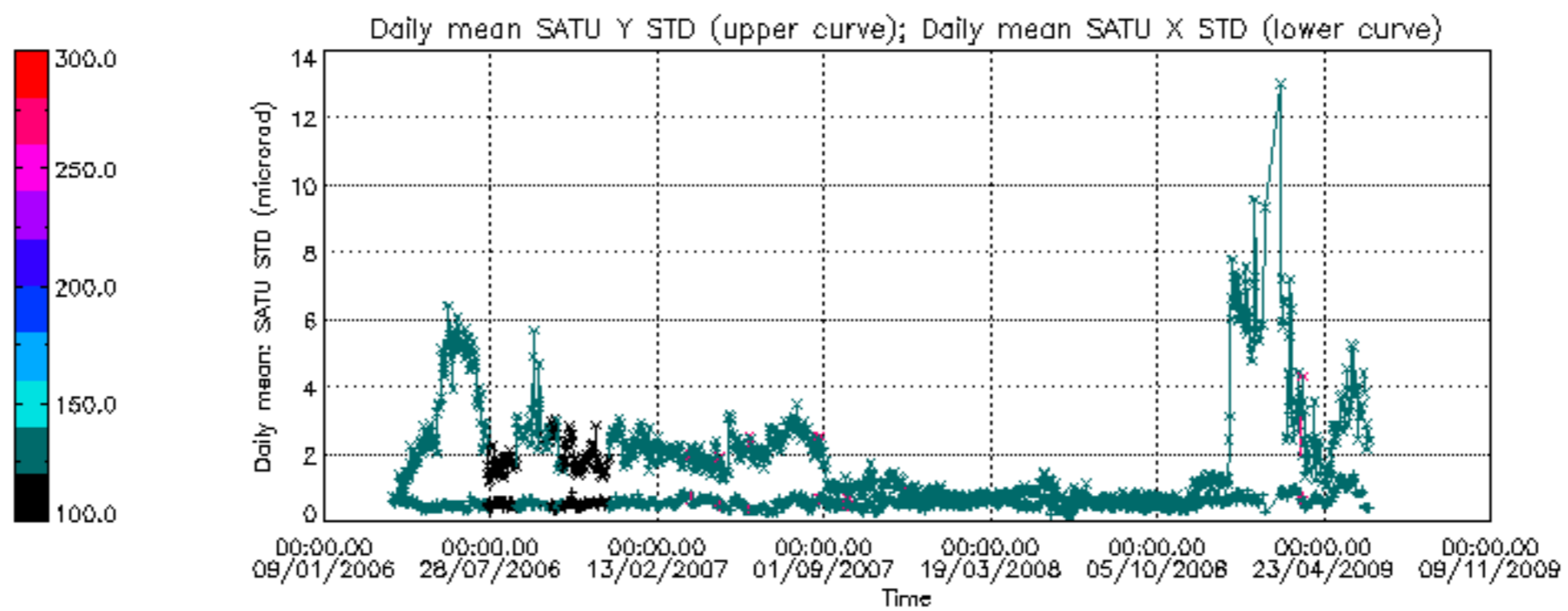


Tangent altitude at which the star is lost









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13; 4859.6; 01-JUN-2009 22:20:07; Dark ; 29.5; 140; 88Gam Peg ; 2.83; 26000;occ; 59; 0;37930
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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
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8; 2508.2; 04-JUN-2009 03:20:06; Bright; 31.0; 133; 40Zet Her ; 2.81; 6000;occ; 62; 0;37962
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6; 2943.7; 04-JUN-2009 20:13:21; Bright; 31.5; 130; 23Bet Dra ; 2.80; 5800;occ; 63; 0;37972
7; 3595.5; 04-JUN-2009 20:24:12; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;37972
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4; 2939.1; 05-JUN-2009 09:38:03; Bright; 31.5; 130; 23Bet Dra ; 2.80; 5800;occ; 63; 0;37980
5; 3590.5; 05-JUN-2009 09:48:55; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;37980
6; 3920.4; 05-JUN-2009 09:54:25; Bright; 25.0; 74; 11Bet Cas ; 2.27; 6600;occ; 50; 0;37980
7; 4569.5; 05-JUN-2009 10:05:14; Dark ; 28.5; 58; 21Alp And ; 2.07; 11000;occ; 57; 0;37980
8; 4887.8; 05-JUN-2009 10:10:32; Dark ; 31.0; 140; 88Gam Peg ; 2.83; 26000;occ; 62; 0;37980
9; 5317.9; 05-JUN-2009 10:17:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37980
10; 5998.2; 05-JUN-2009 10:29:02; Dark ; 40.5; 18; 24Alp PsA ; 1.17; 9700;occ; 81; 0;37980
11; 6286.4; 05-JUN-2009 10:33:51; Dark ; 33.5; 31; Alp Gru ; 1.73; 15200;occ; 67; 0;37980
12; 7176.3; 05-JUN-2009 10:48:41; Dark ; 32.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 64; 0;37980
13; 7274.3; 05-JUN-2009 10:50:19; Dark ; 33.5; 116; 19Del Sgr ; 2.70; 4100;occ; 67; 0;37980
14; 7633.5; 05-JUN-2009 10:56:18; Bright; 29.0; 86; 35Eta Oph ; 2.43; 10200;occ; 58; 0;37980
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1; 2225.3; 05-JUN-2009 11:06:45; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;37981
2; 2302.4; 05-JUN-2009 11:08:03; Bright; 29.5; 127; 27Bet Her ; 2.78; 4700;occ; 59; 0;37981
3; 2500.5; 05-JUN-2009 11:11:21; Bright; 30.5; 133; 40Zet Her ; 2.81; 6000;occ; 61; 0;37981

4;	2938.4;	05-JUN-2009	11:18:39;	Bright;	31.5;	130;	23Bet Dra	;	2.80;	5800;occ;	63;	0;	37981	
5;	3589.9;	05-JUN-2009	11:29:30;	Bright;	30.5;	89;	5Alp Cep	;	2.45;	8000;occ;	61;	0;	37981	
6;	3920.1;	05-JUN-2009	11:35:00;	Bright;	25.0;	74;	11Bet Cas	;	2.27;	6600;occ;	50;	0;	37981	
7;	4569.7;	05-JUN-2009	11:45:50;	Dark	;	29.0;	58;	21Alp And	;	2.07;	11000;occ;	58;	0;	37981
8;	4888.5;	05-JUN-2009	11:51:09;	Dark	;	31.0;	140;	88Gam Peg	;	2.83;	26000;occ;	62;	0;	37981
9;	5318.6;	05-JUN-2009	11:58:19;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	37981
10;	5999.6;	05-JUN-2009	12:09:40;	Dark	;	40.5;	18;	24Alp PsA	;	1.17;	9700;occ;	81;	0;	37981
11;	6287.1;	05-JUN-2009	12:14:27;	Dark	;	34.0;	31;	Alp Gru	;	1.73;	15200;occ;	68;	0;	37981
12;	7176.6;	05-JUN-2009	12:29:17;	Dark	;	32.5;	38;	20Eps Sgr	;	1.84;	11000;occ;	65;	0;	37981
13;	7274.4;	05-JUN-2009	12:30:55;	Dark	;	33.5;	116;	19Del Sgr	;	2.70;	4100;occ;	67;	0;	37981
14;	7633.4;	05-JUN-2009	12:36:54;	Bright;	29.0;	86;	35Eta Oph	;	2.43;	10200;occ;	58;	0;	37981	
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1;	-684.5;	06-JUN-2009	01:23:39;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	37989
2;	-24.5;	06-JUN-2009	01:34:39;	Dark	;	40.5;	18;	24Alp PsA	;	1.17;	9700;occ;	81;	0;	37989
3;	258.8;	06-JUN-2009	01:39:22;	Dark	;	34.0;	31;	Alp Gru	;	1.73;	15200;occ;	68;	0;	37990
4;	1144.6;	06-JUN-2009	01:54:08;	Dark	;	32.5;	38;	20Eps Sgr	;	1.84;	11000;occ;	65;	0;	37990
5;	1242.5;	06-JUN-2009	01:55:46;	Dark	;	33.0;	116;	19Del Sgr	;	2.70;	4100;occ;	66;	0;	37990
6;	1598.6;	06-JUN-2009	02:01:42;	Bright;	29.0;	86;	35Eta Oph	;	2.43;	10200;occ;	58;	0;	37990	
7;	2220.0;	06-JUN-2009	02:12:04;	Bright;	37.0;	59;	55Alp Oph	;	2.08;	8900;occ;	74;	0;	37990	
8;	2497.0;	06-JUN-2009	02:16:41;	Bright;	30.0;	133;	40Zet Her	;	2.81;	6000;occ;	60;	0;	37990	
9;	2933.2;	06-JUN-2009	02:23:57;	Bright;	31.5;	130;	23Bet Dra	;	2.80;	5800;occ;	63;	0;	37990	
10;	3584.2;	06-JUN-2009	02:34:48;	Bright;	31.0;	89;	5Alp Cep	;	2.45;	8000;occ;	62;	0;	37990	
11;	3917.9;	06-JUN-2009	02:40:21;	Bright;	23.0;	74;	11Bet Cas	;	2.27;	6600;occ;	46;	0;	37990	
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1;	-2118.0;	06-JUN-2009	02:40:21;	Bright;	25.0;	74;	11Bet Cas	;	2.27;	6600;occ;	50;	0;	37990	
2;	-1634.9;	06-JUN-2009	02:48:25;	Dark	;	23.0;	53;	43Bet And	;	2.05;	3300;occ;	46;	0;	37990
3;	-1464.0;	06-JUN-2009	02:51:15;	Dark	;	29.0;	58;	21Alp And	;	2.07;	11000;occ;	58;	0;	37990
4;	-1141.7;	06-JUN-2009	02:56:38;	Dark	;	31.5;	140;	88Gam Peg	;	2.83;	26000;occ;	63;	0;	37990
5;	-683.5;	06-JUN-2009	03:04:16;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	37990
6;	-23.9;	06-JUN-2009	03:15:15;	Dark	;	41.0;	18;	24Alp PsA	;	1.17;	9700;occ;	82;	0;	37990
7;	260.0;	06-JUN-2009	03:19:59;	Dark	;	34.0;	31;	Alp Gru	;	1.73;	15200;occ;	68;	0;	37991
8;	1145.4;	06-JUN-2009	03:34:45;	Dark	;	32.0;	38;	20Eps Sgr	;	1.84;	11000;occ;	64;	0;	37991
9;	1242.7;	06-JUN-2009	03:36:22;	Dark	;	33.5;	116;	19Del Sgr	;	2.70;	4100;occ;	67;	0;	37991
10;	1599.0;	06-JUN-2009	03:42:18;	Bright;	28.5;	86;	35Eta Oph	;	2.43;	10200;occ;	57;	0;	37991	
11;	2219.0;	06-JUN-2009	03:52:38;	Bright;	37.5;	59;	55Alp Oph	;	2.08;	8900;occ;	75;	0;	37991	
12;	2496.4;	06-JUN-2009	03:57:16;	Bright;	30.5;	133;	40Zet Her	;	2.81;	6000;occ;	61;	0;	37991	
13;	2932.6;	06-JUN-2009	04:04:32;	Bright;	31.5;	130;	23Bet Dra	;	2.80;	5800;occ;	63;	0;	37991	
14;	3583.7;	06-JUN-2009	04:15:23;	Bright;	30.5;	89;	5Alp Cep	;	2.45;	8000;occ;	61;	0;	37991	
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1;	-2118.3;	06-JUN-2009	04:20:57;	Bright;	25.0;	74;	11Bet Cas	;	2.27;	6600;occ;	50;	0;	37991	
2;	-1635.0;	06-JUN-2009	04:29:00;	Dark	;	23.5;	53;	43Bet And	;	2.05;	3300;occ;	47;	0;	37991
3;	-1463.8;	06-JUN-2009	04:31:52;	Dark	;	29.0;	58;	21Alp And	;	2.07;	11000;occ;	58;	0;	37991
4;	-1141.1;	06-JUN-2009	04:37:14;	Dark	;	31.5;	140;	88Gam Peg	;	2.83;	26000;occ;	63;	0;	37991
5;	-682.4;	06-JUN-2009	04:44:53;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	37991
6;	-22.4;	06-JUN-2009	04:55:53;	Dark	;	41.0;	18;	24Alp PsA	;	1.17;	9700;occ;	82;	0;	37991
7;	260.9;	06-JUN-2009	05:00:36;	Dark	;	34.0;	31;	Alp Gru	;	1.73;	15200;occ;	68;	0;	37992
8;	1145.9;	06-JUN-2009	05:15:21;	Dark	;	32.0;	38;	20Eps Sgr	;	1.84;	11000;occ;	64;	0;	37992
9;	1243.2;	06-JUN-2009	05:16:59;	Dark	;	33.0;	116;	19Del Sgr	;	2.70;	4100;occ;	66;	0;	37992
10;	1598.8;	06-JUN-2009	05:22:54;	Bright;	29.0;	86;	35Eta Oph	;	2.43;	10200;occ;	58;	0;	37992	
11;	2055.1;	06-JUN-2009	05:30:31;	Bright;	26.0;	126;	60Bet Oph	;	2.77;	4250;occ;	52;	0;	37992	
12;	2218.6;	06-JUN-2009	05:33:14;	Bright;	37.5;	59;	55Alp Oph	;	2.08;	8900;occ;	75;	0;	37992	
13;	2495.9;	06-JUN-2009	05:37:51;	Bright;	30.5;	133;	40Zet Her	;	2.81;	6000;occ;	61;	0;	37992	
14;	2932.0;	06-JUN-2009	05:45:07;	Bright;	31.5;	130;	23Bet Dra	;	2.80;	5800;occ;	63;	0;	37992	
15;	3583.0;	06-JUN-2009	05:55:58;	Bright;	30.5;	89;	5Alp Cep	;	2.45;	8000;occ;	61;	0;	37992	
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1;	1150.3;	06-JUN-2009	20:20:49;	Dark	;	31.5;	38;	20Eps Sgr	;	1.84;	11000;occ;	63;	0;	38001
2;	1269.2;	06-JUN-2009	20:22:48;	Dark	;	32.0;	57;	34Sig Sgr	;	2.07;	26000;occ;	64;	0;	38001
3;	1333.0;	06-JUN-2009	20:23:52;	Dark	;	35.0;	137;	22Lam Sgr	;	2.82;	4400;occ;	70;	0;	38001
4;	1599.8;	06-JUN-2009	20:28:19;	Bright;	29.0;	86;	35Eta Oph	;	2.43;	10200;occ;	58;	0;	38001	
5;	2050.8;	06-JUN-2009	20:35:50;	Bright;	37.0;	126;	60Bet Oph	;	2.77;	4250;occ;	74;	0;	38001	
6;	2213.5;	06-JUN-2009	20:38:32;	Bright;	36.5;	59;	55Alp Oph	;	2.08;	8900;occ;	73;	0;	38001	
7;	2492.9;	06-JUN-2009	20:43:12;	Bright;	30.0;	133;	40Zet Her	;	2.81;	6000;occ;	60;	0;	38001	
8;	2927.1;	06-JUN-2009	20:50:26;	Bright;	31.5;	130;	23Bet Dra	;	2.80;	5800;occ;	63;	0;	38001	
9;	3577.4;	06-JUN-2009	21:01:16;	Bright;	30.5;	89;	5Alp Cep	;	2.45;	8000;occ;	61;	0;	38001	
10;	3915.5;	06-JUN-2009	21:06:54;	Bright;	25.0;	74;	11Bet Cas	;	2.27;	6600;occ;	50;	0;	38001	
11;	4401.9;	06-JUN-2009	21:15:01;	Dark	;	23.5;	53;	43Bet And	;	2.05;	3300;occ;	47;	0;	38001
12;	4574.2;	06-JUN-2009	21:17:53;	Dark	;	29.5;	58;	21Alp And	;	2.07;	11000;occ;	59;	0;	38001
13;	4901.0;	06-JUN-2009	21:23:20;	Dark	;	31.5;	140;	88Gam Peg	;	2.83;	26000;occ;	63;	0;	38001

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1; -671.4; 06-JUN-2009 21:31:03; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38001
 2; 270.6; 06-JUN-2009 21:46:45; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38002
 3; 1150.2; 06-JUN-2009 22:01:25; Dark ; 32.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 65; 0;38002
 4; 1269.4; 06-JUN-2009 22:03:24; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38002
 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
 7; 2050.5; 06-JUN-2009 22:16:25; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;38002
 8; 2213.1; 06-JUN-2009 22:19:08; Bright; 36.5; 59; 55Alp Oph ; 2.08; 8900;occ; 73; 0;38002
 9; 2493.1; 06-JUN-2009 22:23:48; Bright; 29.5; 133; 40Zet Her ; 2.81; 6000;occ; 59; 0;38002
 10; 2926.8; 06-JUN-2009 22:31:02; Bright; 31.0; 130; 23Bet Dra ; 2.80; 5800;occ; 62; 0;38002
 11; 3576.7; 06-JUN-2009 22:41:52; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;38002
 12; 3915.1; 06-JUN-2009 22:47:30; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38002
 13; 4401.8; 06-JUN-2009 22:55:37; Dark ; 23.5; 53; 43Bet And ; 2.05; 3300;occ; 47; 0;38002
 14; 4574.4; 06-JUN-2009 22:58:29; Dark ; 29.5; 58; 21Alp And ; 2.07; 11000;occ; 59; 0;38002
 15; 4901.6; 06-JUN-2009 23:03:56; Dark ; 31.5; 140; 88Gam Peg ; 2.83; 26000;occ; 63; 0;38002

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1; -670.3; 06-JUN-2009 23:11:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38002
 2; -6.8; 06-JUN-2009 23:22:44; Dark ; 41.5; 18; 24Alp PsA ; 1.17; 9700;occ; 83; 0;38002
 3; 271.5; 06-JUN-2009 23:27:22; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38003
 4; 1151.2; 06-JUN-2009 23:42:02; Dark ; 32.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 64; 0;38003
 5; 1270.2; 06-JUN-2009 23:44:01; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38003
 6; 1333.7; 06-JUN-2009 23:45:04; Dark ; 35.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 70; 0;38003
 7; 1599.8; 06-JUN-2009 23:49:31; Bright; 28.5; 86; 35Eta Oph ; 2.43; 10200;occ; 57; 0;38003
 8; 2049.9; 06-JUN-2009 23:57:01; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;38003
 9; 2212.4; 06-JUN-2009 23:59:43; Bright; 36.5; 59; 55Alp Oph ; 2.08; 8900;occ; 73; 0;38003
 10; 2492.3; 07-JUN-2009 00:04:23; Bright; 30.0; 133; 40Zet Her ; 2.81; 6000;occ; 60; 0;38003
 11; 2926.5; 07-JUN-2009 00:11:37; Bright; 31.0; 130; 23Bet Dra ; 2.80; 5800;occ; 62; 0;38003
 12; 3576.1; 07-JUN-2009 00:22:27; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38003
 13; 3914.9; 07-JUN-2009 00:28:06; Bright; 25.0; 74; 11Bet Cas ; 2.27; 6600;occ; 50; 0;38003
 14; 4402.1; 07-JUN-2009 00:36:13; Dark ; 23.5; 53; 43Bet And ; 2.05; 3300;occ; 47; 0;38003
 15; 4574.6; 07-JUN-2009 00:39:05; Dark ; 29.5; 58; 21Alp And ; 2.07; 11000;occ; 59; 0;38003
 16; 4902.2; 07-JUN-2009 00:44:33; Dark ; 32.0; 140; 88Gam Peg ; 2.83; 26000;occ; 64; 0;38003

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1; 2054.9; 06-JUN-2009 07:11:06; Bright; 26.0; 126; 60Bet Oph ; 2.77; 4250;occ; 52; 0;37993
 2; 2218.0; 06-JUN-2009 07:13:49; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;37993
 3; 2495.6; 06-JUN-2009 07:18:27; Bright; 30.5; 133; 40Zet Her ; 2.81; 6000;occ; 61; 0;37993
 4; 2931.4; 06-JUN-2009 07:25:43; Bright; 31.5; 130; 23Bet Dra ; 2.80; 5800;occ; 63; 0;37993
 5; 3582.5; 06-JUN-2009 07:36:34; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;37993
 6; 3917.3; 06-JUN-2009 07:42:09; Bright; 25.0; 74; 11Bet Cas ; 2.27; 6600;occ; 50; 0;37993
 7; 4401.2; 06-JUN-2009 07:50:13; Dark ; 23.5; 53; 43Bet And ; 2.05; 3300;occ; 47; 0;37993
 8; 4572.4; 06-JUN-2009 07:53:04; Dark ; 29.5; 58; 21Alp And ; 2.07; 11000;occ; 59; 0;37993
 9; 4896.1; 06-JUN-2009 07:58:28; Dark ; 31.5; 140; 88Gam Peg ; 2.83; 26000;occ; 63; 0;37993
 10; 5355.8; 06-JUN-2009 08:06:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;37993
 11; 6016.4; 06-JUN-2009 08:17:08; Dark ; 41.5; 18; 24Alp PsA ; 1.17; 9700;occ; 83; 0;37993
 12; 6298.9; 06-JUN-2009 08:21:50; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;37993
 13; 7182.5; 06-JUN-2009 08:36:34; Dark ; 32.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 65; 0;37993
 14; 7279.9; 06-JUN-2009 08:38:11; Dark ; 33.5; 116; 19Del Sgr ; 2.70; 4100;occ; 67; 0;37993
 15; 7635.3; 06-JUN-2009 08:44:07; Bright; 28.0; 86; 35Eta Oph ; 2.43; 10200;occ; 56; 0;37993

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 2; -5.2; 07-JUN-2009 01:03:21; Dark ; 41.5; 18; 24Alp PsA ; 1.17; 9700;occ; 83; 0;38003
 3; 272.5; 07-JUN-2009 01:07:59; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38004
 4; 1151.5; 07-JUN-2009 01:22:38; Dark ; 32.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 64; 0;38004
 5; 1270.4; 07-JUN-2009 01:24:37; Dark ; 39.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 78; 0;38004
 6; 1334.3; 07-JUN-2009 01:25:41; Dark ; 35.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 70; 0;38004
 7; 1600.3; 07-JUN-2009 01:30:07; Bright; 28.5; 86; 35Eta Oph ; 2.43; 10200;occ; 57; 0;38004
 8; 2049.3; 07-JUN-2009 01:37:36; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;38004
 9; 2212.0; 07-JUN-2009 01:40:19; Bright; 36.5; 59; 55Alp Oph ; 2.08; 8900;occ; 73; 0;38004
 10; 2492.2; 07-JUN-2009 01:44:59; Bright; 29.5; 133; 40Zet Her ; 2.81; 6000;occ; 59; 0;38004
 11; 2925.8; 07-JUN-2009 01:52:12; Bright; 31.0; 130; 23Bet Dra ; 2.80; 5800;occ; 62; 0;38004
 12; 3575.3; 07-JUN-2009 02:03:02; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38004
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8; 1152.1; 07-JUN-2009 03:03:15; Dark ; 32.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 64; 0;38005
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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 9; 4576.7; 07-JUN-2009 15:44:31; Dark ; 30.0; 58; 21Alp And ; 2.07; 11000;occ; 60; 0;38012
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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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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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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
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12; 3529.7; 11-JUN-2009 23:24:12; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38074
13; 3895.7; 11-JUN-2009 23:30:18; Bright; 25.5; 74; 11Bet Cas ; 2.27; 6600;occ; 51; 0;38074
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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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4; 2179.3; 11-JUN-2009 19:40:29; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;38072
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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
8; 1303.2; 12-JUN-2009 02:08:17; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;38076
9; 2022.1; 12-JUN-2009 02:20:16; Bright; 33.5; 126; 60Bet Oph ; 2.77; 4250;occ; 67; 0;38076
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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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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
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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
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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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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
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4; 3523.7; 12-JUN-2009 14:29:29; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38083
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7; 5406.6; 12-JUN-2009 15:00:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38083
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9; 6152.7; 12-JUN-2009 15:13:18; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;38083
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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
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6; 4408.3; 12-JUN-2009 16:24:49; Dark ; 25.0; 53; 43Bet And ; 2.05; 3300;occ; 50; 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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11; 6388.1; 12-JUN-2009 16:57:49; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38084
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13; 6389.3; 12-JUN-2009 18:38:26; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38085
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5; 235.6; 13-JUN-2009 02:59:28; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38091
6; 357.9; 13-JUN-2009 03:01:30; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38091
7; 459.3; 13-JUN-2009 03:03:12; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38091
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9; 1191.4; 13-JUN-2009 08:17:12; Dark ; 30.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 60; 0;38094
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4; 3516.6; 13-JUN-2009 08:55:57; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38094
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8; 5528.9; 13-JUN-2009 09:29:29; Dark ; 32.0; 52; 16Bet Cet ; 2.04; 4500;occ; 64; 0;38094
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11; 6397.8; 13-JUN-2009 09:43:58; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38094
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4; 3515.8; 13-JUN-2009 10:36:32; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38095
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3; 2881.5; 13-JUN-2009 12:06:34; Bright; 29.5; 130; 23Bet Dra ; 2.80; 5800;occ; 59; 0;38096
4; 3515.0; 13-JUN-2009 12:17:07; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38096
5; 3888.8; 13-JUN-2009 12:23:21; Bright; 26.5; 74; 11Bet Cas ; 2.27; 6600;occ; 53; 0;38096
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7; 5419.7; 13-JUN-2009 12:48:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38096
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8; 3964.3; 14-JUN-2009 21:56:35; Bright; 25.0; 68; 18Alp Cas ; 2.22; 4500;occ; 50; 0;38116
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9; 518.8; 16-JUN-2009 04:50:32; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38135
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8;	403.0;	16-JUN-2009	06:29:13;	Dark	;	34.0;	31;	Alp	Gru	;	1.73;	15200;	occ;	68;	0;	38136
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4;	411.5;	16-JUN-2009	21:34:44;	Dark	;	35.0;	31;	Alp	Gru	;	1.73;	15200;	occ;	70;	0;	38145
5;	532.0;	16-JUN-2009	21:36:45;	Dark	;	42.5;	172;	Gam	Gru	;	3.00;	13100;	occ;	85;	0;	38145
6;	1243.1;	16-JUN-2009	21:48:36;	Dark	;	33.0;	103;	38Zet	Sgr	;	2.60;	9700;	occ;	66;	0;	38145
7;	1329.9;	16-JUN-2009	21:50:03;	Dark	;	33.5;	57;	34Sig	Sgr	;	2.07;	26000;	occ;	67;	0;	38145
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9;	2004.0;	16-JUN-2009	22:01:17;	Bright;	31.0;	126;	60Bet	Oph	;	2.77;	4250;	occ;	62;	0;	38145	
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12;	2889.8;	16-JUN-2009	22:16:03;	Bright;	30.5;	69;	33Gam	Dra	;	2.23;	3800;	occ;	61;	0;	38145	
13;	3482.0;	16-JUN-2009	22:25:55;	Bright;	31.5;	89;	5Alp	Cep	;	2.45;	8000;	occ;	63;	0;	38145	
14;	3872.7;	16-JUN-2009	22:32:26;	Bright;	27.0;	74;	11Bet	Cas	;	2.27;	6600;	occ;	54;	0;	38145	
15;	3957.1;	16-JUN-2009	22:33:50;	Bright;	25.5;	68;	18Alp	Cas	;	2.22;	4500;	occ;	51;	0;	38145	
16;	4412.4;	16-JUN-2009	22:41:25;	Dark	;	25.5;	53;	43Bet	And	;	2.05;	3300;	occ;	51;	0;	38145
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3;	289.3;	16-JUN-2009	23:13:18;	Dark	;	34.5;	63;	Bet	Gru	;	2.15;	2800;	occ;	69;	0;	38146
4;	412.5;	16-JUN-2009	23:15:21;	Dark	;	34.5;	31;	Alp	Gru	;	1.73;	15200;	occ;	69;	0;	38146
5;	533.2;	16-JUN-2009	23:17:22;	Dark	;	42.5;	172;	Gam	Gru	;	3.00;	13100;	occ;	85;	0;	38146
6;	1243.4;	16-JUN-2009	23:29:12;	Dark	;	33.0;	103;	38Zet	Sgr	;	2.60;	9700;	occ;	66;	0;	38146
7;	1330.6;	16-JUN-2009	23:30:39;	Dark	;	33.0;	57;	34Sig	Sgr	;	2.07;	26000;	occ;	66;	0;	38146
8;	1436.4;	16-JUN-2009	23:32:25;	Bright;	37.0;	155;	41Pi	Sgr	;	2.90;	6600;	occ;	74;	0;	38146	
9;	2003.5;	16-JUN-2009	23:41:52;	Bright;	31.0;	126;	60Bet	Oph	;	2.77;	4250;	occ;	62;	0;	38146	
10;	2153.7;	16-JUN-2009	23:44:23;	Bright;	30.5;	59;	55Alp	Oph	;	2.08;	8900;	occ;	61;	0;	38146	
11;	2786.5;	16-JUN-2009	23:54:55;	Bright;	37.5;	5;	3Alp	Lyr	;	0.03;	11000;	occ;	75;	0;	38146	
12;	2889.3;	16-JUN-2009	23:56:38;	Bright;	30.5;	69;	33Gam	Dra	;	2.23;	3800;	occ;	61;	0;	38146	
13;	3481.4;	17-JUN-2009	00:06:30;	Bright;	31.5;	89;	5Alp	Cep	;	2.45;	8000;	occ;	63;	0;	38146	
14;	3872.6;	17-JUN-2009	00:13:01;	Bright;	26.5;	74;	11Bet	Cas	;	2.27;	6600;	occ;	53;	0;	38146	
15;	3956.9;	17-JUN-2009	00:14:26;	Bright;	25.5;	68;	18Alp	Cas	;	2.22;	4500;	occ;	51;	0;	38146	
16;	4412.3;	17-JUN-2009	00:22:01;	Dark	;	25.5;	53;	43Bet	And	;	2.05;	3300;	occ;	51;	0;	38146
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1	;-2160.0;	16-JUN-2009	07:27:05;	Bright;	26.5;	74;	11Bet Cas	;	2.27;	6600;occ;	53;	0;	38136	
2	;-2076.5;	16-JUN-2009	07:28:29;	Bright;	25.0;	68;	18Alp Cas	;	2.22;	4500;occ;	50;	0;	38136	
3	;-1624.0;	16-JUN-2009	07:36:01;	Dark	;	25.0;	53;	43Bet And	;	2.05;	3300;occ;	50;	0;	38136
4	;-1034.2;	16-JUN-2009	07:45:51;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	38136
5	;-465.2;	16-JUN-2009	07:55:20;	Dark	;	34.0;	52;	16Bet Cet	;	2.04;	4500;occ;	68;	0;	38136
6	281.0;	16-JUN-2009	08:07:46;	Dark	;	34.0;	63;	Bet Gru	;	2.15;	2800;occ;	68;	0;	38137
7	403.8;	16-JUN-2009	08:09:49;	Dark	;	34.5;	31;	Alp Gru	;	1.73;	15200;occ;	69;	0;	38137
8	521.3;	16-JUN-2009	08:11:47;	Dark	;	42.0;	172;	Gam Gru	;	3.00;	13100;occ;	84;	0;	38137
9	1239.8;	16-JUN-2009	08:23:45;	Dark	;	33.0;	103;	38Zet Sgr	;	2.60;	9700;occ;	66;	0;	38137
10	1327.2;	16-JUN-2009	08:25:13;	Dark	;	33.5;	57;	34Sig Sgr	;	2.07;	26000;occ;	67;	0;	38137
11	1433.8;	16-JUN-2009	08:26:59;	Bright;	36.5;	155;	41Pi Sgr	;	2.90;	6600;occ;	73;	0;	38137	

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1	2005.8;	16-JUN-2009	08:36:31;	Bright;	31.0;	126;	60Bet Oph	;	2.77;	4250;occ;	62;	0;	38137	
2	2156.2;	16-JUN-2009	08:39:02;	Bright;	31.0;	59;	55Alp Oph	;	2.08;	8900;occ;	62;	0;	38137	
3	2794.7;	16-JUN-2009	08:49:40;	Bright;	37.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	74;	0;	38137	
4	2893.8;	16-JUN-2009	08:51:19;	Bright;	30.5;	69;	33Gam Dra	;	2.23;	3800;occ;	61;	0;	38137	
5	3487.6;	16-JUN-2009	09:01:13;	Bright;	31.0;	89;	5Alp Cep	;	2.45;	8000;occ;	62;	0;	38137	
6	3875.5;	16-JUN-2009	09:07:41;	Bright;	26.5;	74;	11Bet Cas	;	2.27;	6600;occ;	53;	0;	38137	
7	3959.3;	16-JUN-2009	09:09:05;	Bright;	25.0;	68;	18Alp Cas	;	2.22;	4500;occ;	50;	0;	38137	
8	4412.0;	16-JUN-2009	09:16:37;	Dark	;	25.5;	53;	43Bet And	;	2.05;	3300;occ;	51;	0;	38137
9	5002.2;	16-JUN-2009	09:26:28;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	38137
10	5572.2;	16-JUN-2009	09:35:58;	Dark	;	33.5;	52;	16Bet Cet	;	2.04;	4500;occ;	67;	0;	38137
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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1	2005.5;	16-JUN-2009	10:17:07;	Bright;	31.0;	126;	60Bet Oph	;	2.77;	4250;occ;	62;	0;	38138	
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
10	5572.7;	16-JUN-2009	11:16:34;	Dark	;	34.0;	52;	16Bet Cet	;	2.04;	4500;occ;	68;	0;	38138
11	6318.5;	16-JUN-2009	11:29:00;	Dark	;	34.0;	63;	Bet Gru	;	2.15;	2800;occ;	68;	0;	38138
12	6441.6;	16-JUN-2009	11:31:03;	Dark	;	34.5;	31;	Alp Gru	;	1.73;	15200;occ;	69;	0;	38138
13	6560.0;	16-JUN-2009	11:33:01;	Dark	;	42.0;	172;	Gam Gru	;	3.00;	13100;occ;	84;	0;	38138
14	7276.0;	16-JUN-2009	11:44:57;	Dark	;	33.0;	103;	38Zet Sgr	;	2.60;	9700;occ;	66;	0;	38138
15	7363.6;	16-JUN-2009	11:46:25;	Dark	;	33.5;	57;	34Sig Sgr	;	2.07;	26000;occ;	67;	0;	38138
16	7470.0;	16-JUN-2009	11:48:11;	Bright;	37.5;	155;	41Pi Sgr	;	2.90;	6600;occ;	75;	0;	38138	

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1	2005.5;	16-JUN-2009	11:57:43;	Bright;	31.0;	126;	60Bet Oph	;	2.77;	4250;occ;	62;	0;	38139	
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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1	1434.5;	16-JUN-2009	13:28:48;	Bright;	38.0;	155;	41Pi Sgr	;	2.90;	6600;occ;	76;	0;	38140
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

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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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1; 1241.6; 16-JUN-2009 16:46:47; Dark ; 33.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 66; 0;38142
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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16; 7374.2; 18-JUN-2009 14:04:33; Dark ; 32.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 65; 0;38168
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8; 4270.8; 19-JUN-2009 11:00:37; Bright; 22.5; 73; 57Gam1And ; 2.26; 13100;occ; 45; 0;38181
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 6; 3859.3; 19-JUN-2009 12:34:22; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38182
 7; 3946.7; 19-JUN-2009 12:35:49; Bright; 26.0; 68; 18Alp Cas ; 2.22; 4500;occ; 52; 0;38182
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11; 5519.8; 19-JUN-2009 13:02:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38182
12; 5622.2; 19-JUN-2009 13:03:44; Dark ; 36.0; 52; 16Bet Cet ; 2.04; 4500;occ; 72; 0;38182
13; 5979.8; 19-JUN-2009 13:09:42; Dark ; 31.0; 84; Alp Phe ; 2.40; 4500;occ; 62; 0;38182
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16; 6617.5; 19-JUN-2009 13:20:20; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38182
17; 7260.9; 19-JUN-2009 13:31:03; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38182
18; 7348.2; 19-JUN-2009 13:32:30; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38182
19; 7481.8; 19-JUN-2009 13:34:44; Bright; 34.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 69; 0;38182
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10; 4633.5; 19-JUN-2009 14:27:52; Dark ; 23.0; 50; 13Alp Ari ; 2.01; 4250;occ; 46; 0;38183
11; 5521.1; 19-JUN-2009 14:42:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38183
12; 5623.4; 19-JUN-2009 14:44:21; Dark ; 36.0; 52; 16Bet Cet ; 2.04; 4500;occ; 72; 0;38183
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14; 6362.6; 19-JUN-2009 14:56:41; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38183
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16; 6618.8; 19-JUN-2009 15:00:57; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38183
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18; 7348.7; 19-JUN-2009 15:13:07; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38183
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 6; 3455.4; 19-JUN-2009 15:48:49; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38184
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11; 4633.8; 19-JUN-2009 16:08:28; Dark ; 23.5; 50; 13Alp Ari ; 2.01; 4250;occ; 47; 0;38184
12; 5522.5; 19-JUN-2009 16:23:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38184
13; 5624.6; 19-JUN-2009 16:24:59; Dark ; 36.0; 52; 16Bet Cet ; 2.04; 4500;occ; 72; 0;38184
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16; 6486.8; 19-JUN-2009 16:39:21; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38184
17; 6620.1; 19-JUN-2009 16:41:34; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38184
18; 7261.8; 19-JUN-2009 16:52:16; Dark ; 27.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 55; 0;38184

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3; 1446.1; 19-JUN-2009 18:36:32; Bright; 35.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 71; 0;38186
4; 1996.1; 19-JUN-2009 18:45:42; Bright; 29.5; 126; 60Bet Oph ; 2.77; 4250;occ; 59; 0;38186
5; 2143.4; 19-JUN-2009 18:48:09; Bright; 29.5; 59; 55Alp Oph ; 2.08; 8900;occ; 59; 0;38186
6; 2753.3; 19-JUN-2009 18:58:19; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;38186
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12; 4414.8; 19-JUN-2009 19:26:01; Dark ; 26.5; 53; 43Bet And ; 2.05; 3300;occ; 53; 0;38186
13; 4634.2; 19-JUN-2009 19:29:40; Dark ; 23.0; 50; 13Alp Ari ; 2.01; 4250;occ; 46; 0;38186
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16; 5983.6; 19-JUN-2009 19:52:10; Dark ; 30.5; 84; Alp Phe ; 2.40; 4500;occ; 61; 0;38186
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18; 6488.7; 19-JUN-2009 20:00:35; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38186
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3; -49.8; 20-JUN-2009 00:54:00; Dark ; 30.5; 84; Alp Phe ; 2.40; 4500;occ; 61; 0;38189
4; 333.1; 20-JUN-2009 01:00:23; Dark ; 34.0; 63; Bet Gru ; 2.15; 2800;occ; 68; 0;38190
5; 456.2; 20-JUN-2009 01:02:26; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38190
6; 590.7; 20-JUN-2009 01:04:40; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38190
7; 1227.5; 20-JUN-2009 01:15:17; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38190
8; 1314.4; 20-JUN-2009 01:16:44; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38190
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11; 2142.4; 20-JUN-2009 01:30:32; Bright; 29.5; 59; 55Alp Oph ; 2.08; 8900;occ; 59; 0;38190
12; 2750.3; 20-JUN-2009 01:40:40; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38190
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4; 333.6; 20-JUN-2009 02:40:59; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38191
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6; 592.4; 20-JUN-2009 02:45:18; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;38191
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8; 1314.6; 20-JUN-2009 02:57:20; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38191
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12; 1227.8; 20-JUN-2009 04:36:29; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38192



13; 1315.1; 20-JUN-2009 04:37:57; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38192
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16; 2142.2; 20-JUN-2009 04:51:44; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38192
17; 2748.4; 20-JUN-2009 05:01:50; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38192
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14; 1448.0; 20-JUN-2009 06:20:45; Bright; 35.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 70; 0;38193
15; 1994.8; 20-JUN-2009 06:29:52; Bright; 29.5; 126; 60Bet Oph ; 2.77; 4250;occ; 59; 0;38193
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3; 1449.6; 20-JUN-2009 19:45:35; Bright; 35.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 70; 0;38201
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17; 6501.4; 20-JUN-2009 17:48:34; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38199
18; 6639.1; 20-JUN-2009 17:50:52; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;38199
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2; 1317.6; 20-JUN-2009 18:02:47; Dark ; 28.0; 116; 19Del Sgr ; 2.70; 4100;occ; 56; 0;38200
3; 1450.0; 20-JUN-2009 18:04:59; Bright; 34.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 69; 0;38200
4; 1993.9; 20-JUN-2009 18:14:03; Bright; 29.0; 126; 60Bet Oph ; 2.77; 4250;occ; 58; 0;38200
5; 2140.3; 20-JUN-2009 18:16:29; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38200
6; 2742.1; 20-JUN-2009 18:26:31; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38200
7; 2843.0; 20-JUN-2009 18:28:12; Bright; 28.5; 130; 23Bet Dra ; 2.80; 5800;occ; 57; 0;38200
8; 3444.4; 20-JUN-2009 18:38:13; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38200
9; 3852.4; 20-JUN-2009 18:45:01; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38200
10; 3941.4; 20-JUN-2009 18:46:30; Bright; 26.0; 68; 18Alp Cas ; 2.22; 4500;occ; 52; 0;38200
11; 4271.0; 20-JUN-2009 18:52:00; Bright; 22.5; 73; 57Gam1And ; 2.26; 13100;occ; 45; 0;38200
12; 4415.4; 20-JUN-2009 18:54:24; Dark ; 27.0; 53; 43Bet And ; 2.05; 3300;occ; 54; 0;38200
13; 4637.5; 20-JUN-2009 18:58:06; Dark ; 23.5; 50; 13Alp Ari ; 2.01; 4250;occ; 47; 0;38200
14; 5544.1; 20-JUN-2009 19:13:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38200
15; 5644.5; 20-JUN-2009 19:14:53; Dark ; 37.0; 52; 16Bet Cet ; 2.04; 4500;occ; 74; 0;38200
16; 5995.1; 20-JUN-2009 19:20:44; Dark ; 31.5; 84; Alp Phe ; 2.40; 4500;occ; 63; 0;38200
17; 6379.3; 20-JUN-2009 19:27:08; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38200
18; 6502.1; 20-JUN-2009 19:29:11; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38200
19; 6640.3; 20-JUN-2009 19:31:29; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;38200
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3; -38.0; 21-JUN-2009 00:22:35; Dark ; 31.5; 84; Alp Phe ; 2.40; 4500;occ; 63; 0;38203
4; 346.5; 21-JUN-2009 00:28:59; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38204
5; 469.2; 21-JUN-2009 00:31:02; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38204
6; 608.2; 21-JUN-2009 00:33:21; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38204
7; 1231.8; 21-JUN-2009 00:43:44; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38204
8; 1318.5; 21-JUN-2009 00:45:11; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38204
9; 1450.7; 21-JUN-2009 00:47:23; Bright; 34.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 69; 0;38204
10; 1992.9; 21-JUN-2009 00:56:26; Bright; 29.0; 126; 60Bet Oph ; 2.77; 4250;occ; 59; 0;38204
11; 2139.4; 21-JUN-2009 00:58:52; Bright; 29.5; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38204
12; 2739.2; 21-JUN-2009 01:08:52; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38204
13; 2841.8; 21-JUN-2009 01:10:34; Bright; 28.5; 130; 23Bet Dra ; 2.80; 5800;occ; 57; 0;38204
14; 3441.4; 21-JUN-2009 01:20:34; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38204
15; 3850.3; 21-JUN-2009 01:27:23; Bright; 27.5; 74; 11Bet Cas ; 2.27; 6600;occ; 55; 0;38204
16; 3940.2; 21-JUN-2009 01:28:53; Bright; 26.0; 68; 18Alp Cas ; 2.22; 4500;occ; 52; 0;38204
17; 4271.1; 21-JUN-2009 01:34:24; Bright; 22.5; 73; 57Gam1And ; 2.26; 13100;occ; 45; 0;38204
18; 4415.4; 21-JUN-2009 01:36:48; Dark ; 27.5; 53; 43Bet And ; 2.05; 3300;occ; 55; 0;38204
19; 4638.5; 21-JUN-2009 01:40:31; Dark ; 23.5; 50; 13Alp Ari ; 2.01; 4250;occ; 47; 0;38204
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2; -386.8; 21-JUN-2009 01:57:22; Dark ; 37.5; 52; 16Bet Cet ; 2.04; 4500;occ; 75; 0;38204
3; -37.0; 21-JUN-2009 02:03:11; Dark ; 31.0; 84; Alp Phe ; 2.40; 4500;occ; 62; 0;38204
4; 347.2; 21-JUN-2009 02:09:36; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38205
5; 470.3; 21-JUN-2009 02:11:39; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38205
6; 609.4; 21-JUN-2009 02:13:58; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;38205
7; 1233.7; 21-JUN-2009 02:24:22; Dark ; 26.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 53; 0;38205
8; 1318.9; 21-JUN-2009 02:25:47; Dark ; 28.0; 116; 19Del Sgr ; 2.70; 4100;occ; 56; 0;38205
9; 1450.8; 21-JUN-2009 02:27:59; Bright; 34.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 69; 0;38205
10; 1993.0; 21-JUN-2009 02:37:01; Bright; 29.0; 126; 60Bet Oph ; 2.77; 4250;occ; 58; 0;38205
11; 2139.2; 21-JUN-2009 02:39:28; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38205
12; 2738.2; 21-JUN-2009 02:49:27; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38205
13; 2841.6; 21-JUN-2009 02:51:10; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38205
14; 3440.8; 21-JUN-2009 03:01:09; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38205
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2; -2096.0; 21-JUN-2009 03:09:28; Bright; 26.0; 68; 18Alp Cas ; 2.22; 4500;occ; 52; 0;38205
3; -1764.9; 21-JUN-2009 03:14:59; Bright; 22.5; 73; 57Gam1And ; 2.26; 13100;occ; 45; 0;38205
4; -1620.5; 21-JUN-2009 03:17:24; Dark ; 27.5; 53; 43Bet And ; 2.05; 3300;occ; 55; 0;38205
5; -1397.2; 21-JUN-2009 03:21:07; Dark ; 24.0; 50; 13Alp Ari ; 2.01; 4250;occ; 48; 0;38205



6; -485.0; 21-JUN-2009 03:36:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38205

7; -385.6; 21-JUN-2009 03:37:59; Dark ; 37.5; 52; 16Bet Cet ; 2.04; 4500;occ; 75; 0;38205

8; -36.1; 21-JUN-2009 03:43:48; Dark ; 31.0; 84; Alp Phe ; 2.40; 4500;occ; 62; 0;38205

9; 348.2; 21-JUN-2009 03:50:13; Dark ; 35.0; 63; Bet Gru ; 2.15; 2800;occ; 70; 0;38206

10; 471.0; 21-JUN-2009 03:52:15; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38206

11; 610.9; 21-JUN-2009 03:54:35; Dark ; 42.0; 172; Gam Gru ; 3.00; 13100;occ; 84; 0;38206

12; 1268.0; 21-JUN-2009 04:05:32; Dark ; 31.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 62; 0;38206

13; 1350.5; 21-JUN-2009 04:06:55; Dark ; 31.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 63; 0;38206

14; 1451.1; 21-JUN-2009 04:08:36; Bright; 34.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 69; 0;38206

15; 1993.0; 21-JUN-2009 04:17:37; Bright; 29.0; 126; 60Bet Oph ; 2.77; 4250;occ; 58; 0;38206

16; 2139.1; 21-JUN-2009 04:20:04; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38206

17; 2737.6; 21-JUN-2009 04:30:02; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;38206

18; 2841.4; 21-JUN-2009 04:31:46; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38206

19; 3440.5; 21-JUN-2009 04:41:45; Bright; 30.5; 89; 5Alp Cep ; 2.45; 8000;occ; 61; 0;38206

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1;-2186.4; 21-JUN-2009 06:29:10; Bright; 27.0; 74; 11Bet Cas ; 2.27; 6600;occ; 54; 0;38207

2;-2096.8; 21-JUN-2009 06:30:40; Bright; 26.5; 68; 18Alp Cas ; 2.22; 4500;occ; 53; 0;38207

3;-1764.7; 21-JUN-2009 06:36:12; Bright; 22.5; 73; 57Gam1And ; 2.26; 13100;occ; 45; 0;38207

4;-1620.4; 21-JUN-2009 06:38:36; Dark ; 27.5; 53; 43Bet And ; 2.05; 3300;occ; 55; 0;38207

5;-1396.4; 21-JUN-2009 06:42:20; Dark ; 23.5; 50; 13Alp Ari ; 2.01; 4250;occ; 47; 0;38207

6; -482.1; 21-JUN-2009 06:57:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38207

7; -383.0; 21-JUN-2009 06:59:13; Dark ; 37.5; 52; 16Bet Cet ; 2.04; 4500;occ; 75; 0;38207

8; -34.4; 21-JUN-2009 07:05:02; Dark ; 31.5; 84; Alp Phe ; 2.40; 4500;occ; 63; 0;38207

9; 350.3; 21-JUN-2009 07:11:27; Dark ; 35.0; 63; Bet Gru ; 2.15; 2800;occ; 70; 0;38208

10; 473.2; 21-JUN-2009 07:13:30; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38208

11; 613.8; 21-JUN-2009 07:15:50; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;38208

12; 1268.8; 21-JUN-2009 07:26:45; Dark ; 31.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 62; 0;38208

13; 1351.1; 21-JUN-2009 07:28:08; Dark ; 31.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 62; 0;38208

14; 1451.5; 21-JUN-2009 07:29:48; Bright; 34.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 68; 0;38208

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2; 2138.7; 21-JUN-2009 07:41:15; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38208

3; 2736.5; 21-JUN-2009 07:51:13; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;38208

4; 2840.8; 21-JUN-2009 07:52:57; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38208

5; 3438.7; 21-JUN-2009 08:02:55; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38208

6; 3848.9; 21-JUN-2009 08:09:45; Bright; 27.5; 74; 11Bet Cas ; 2.27; 6600;occ; 55; 0;38208

7; 3938.9; 21-JUN-2009 08:11:15; Bright; 26.5; 68; 18Alp Cas ; 2.22; 4500;occ; 53; 0;38208

8; 4271.0; 21-JUN-2009 08:16:47; Bright; 23.0; 73; 57Gam1And ; 2.26; 13100;occ; 46; 0;38208

9; 4415.6; 21-JUN-2009 08:19:12; Dark ; 27.5; 53; 43Bet And ; 2.05; 3300;occ; 55; 0;38208

10; 4639.6; 21-JUN-2009 08:22:56; Dark ; 24.0; 50; 13Alp Ari ; 2.01; 4250;occ; 48; 0;38208

11; 5555.2; 21-JUN-2009 08:38:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38208

12; 5654.0; 21-JUN-2009 08:39:50; Dark ; 38.0; 52; 16Bet Cet ; 2.04; 4500;occ; 76; 0;38208

13; 6002.8; 21-JUN-2009 08:45:39; Dark ; 30.5; 84; Alp Phe ; 2.40; 4500;occ; 61; 0;38208

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2; 475.5; 21-JUN-2009 10:34:44; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38210

3; 673.6; 21-JUN-2009 10:38:02; Dark ; 28.5; 45; Alp Pav ; 1.94; 26000;occ; 57; 0;38210

4; 1234.0; 21-JUN-2009 10:47:22; Dark ; 27.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 55; 0;38210

5; 1320.4; 21-JUN-2009 10:48:49; Dark ; 27.5; 116; 19Del Sgr ; 2.70; 4100;occ; 55; 0;38210

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20090621_110001_000053912080_00080_38210_4302.N1

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2; 2138.1; 21-JUN-2009 11:02:26; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38210

3; 2449.0; 21-JUN-2009 11:07:37; Bright; 26.5; 133; 40Zet Her ; 2.81; 6000;occ; 53; 0;38210

4; 2840.5; 21-JUN-2009 11:14:09; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38210

5; 3877.2; 21-JUN-2009 11:31:25; Bright; 25.0; 76; 27Gam Cas ; 2.30; 30000;occ; 50; 0;38210

6; 4271.0; 21-JUN-2009 11:37:59; Bright; 23.0; 73; 57Gam1And ; 2.26; 13100;occ; 46; 0;38210

7; 4413.5; 21-JUN-2009 11:40:22; Dark ; 22.5; 173; 4Bet Tri ; 3.00; 8900;occ; 45; 0;38210

8; 4640.3; 21-JUN-2009 11:44:08; Dark ; 23.5; 50; 13Alp Ari ; 2.01; 4250;occ; 47; 0;38210

9; 5400.7; 21-JUN-2009 11:56:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38210

10; 6004.0; 21-JUN-2009 12:06:52; Dark ; 31.5; 84; Alp Phe ; 2.40; 4500;occ; 63; 0;38210

11; 6389.4; 21-JUN-2009 12:13:18; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38210

12; 6512.1; 21-JUN-2009 12:15:20; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38210

13; 7269.9; 21-JUN-2009 12:27:58; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38210

14; 7356.2; 21-JUN-2009 12:29:24; Dark ; 28.0; 116; 19Del Sgr ; 2.70; 4100;occ; 56; 0;38210

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2; 2137.8; 21-JUN-2009 12:43:02; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38211

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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4; 3876.8; 21-JUN-2009 13:12:01; Bright; 25.0; 76; 27Gam Cas ; 2.30; 30000;occ; 50; 0;38211
5; 4271.2; 21-JUN-2009 13:18:35; Bright; 22.5; 73; 57Gam1And ; 2.26; 13100;occ; 45; 0;38211
6; 4413.6; 21-JUN-2009 13:20:58; Dark ; 22.5; 173; 4Bet Tri ; 3.00; 8900;occ; 45; 0;38211
7; 4640.9; 21-JUN-2009 13:24:45; Dark ; 23.5; 50; 13Alp Ari ; 2.01; 4250;occ; 47; 0;38211
8; 5401.3; 21-JUN-2009 13:37:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38211
9; 6005.4; 21-JUN-2009 13:47:29; Dark ; 31.0; 84; Alp Phe ; 2.40; 4500;occ; 62; 0;38211
10; 6390.1; 21-JUN-2009 13:53:54; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38211
11; 6512.7; 21-JUN-2009 13:55:57; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38211
12; 6710.8; 21-JUN-2009 13:59:15; Dark ; 28.0; 45; Alp Pav ; 1.94; 26000;occ; 56; 0;38211
13; 7270.3; 21-JUN-2009 14:08:34; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38211
14; 7356.5; 21-JUN-2009 14:10:01; Dark ; 28.0; 116; 19Del Sgr ; 2.70; 4100;occ; 56; 0;38211

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3; 2448.7; 21-JUN-2009 14:28:49; Bright; 26.5; 133; 40Zet Her ; 2.81; 6000;occ; 53; 0;38212
4; 2839.8; 21-JUN-2009 14:35:20; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38212
5; 3877.2; 21-JUN-2009 14:52:37; Bright; 24.5; 76; 27Gam Cas ; 2.30; 30000;occ; 49; 0;38212
6; 4271.0; 21-JUN-2009 14:59:11; Bright; 23.0; 73; 57Gam1And ; 2.26; 13100;occ; 46; 0;38212
7; 4413.6; 21-JUN-2009 15:01:34; Dark ; 23.0; 173; 4Bet Tri ; 3.00; 8900;occ; 46; 0;38212
8; 4640.6; 21-JUN-2009 15:05:21; Dark ; 24.0; 50; 13Alp Ari ; 2.01; 4250;occ; 48; 0;38212
9; 5402.0; 21-JUN-2009 15:18:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38212
10; 6005.8; 21-JUN-2009 15:28:06; Dark ; 31.5; 84; Alp Phe ; 2.40; 4500;occ; 63; 0;38212
11; 6391.4; 21-JUN-2009 15:34:31; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38212
12; 6514.1; 21-JUN-2009 15:36:34; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38212
13; 6711.2; 21-JUN-2009 15:39:51; Dark ; 28.5; 45; Alp Pav ; 1.94; 26000;occ; 57; 0;38212
14; 7270.6; 21-JUN-2009 15:49:10; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38212
15; 7356.9; 21-JUN-2009 15:50:37; Dark ; 5.0; 116; 19Del Sgr ; 2.70; 4100;occ; 10; 0;38212

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2; 1992.0; 21-JUN-2009 16:01:48; Bright; 29.0; 126; 60Bet Oph ; 2.77; 4250;occ; 58; 0;38213
3; 2137.6; 21-JUN-2009 16:04:13; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38213
4; 2839.5; 21-JUN-2009 16:15:55; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38213
5; 3876.7; 21-JUN-2009 16:33:13; Bright; 24.5; 76; 27Gam Cas ; 2.30; 30000;occ; 49; 0;38213
6; 4271.1; 21-JUN-2009 16:39:47; Bright; 23.0; 73; 57Gam1And ; 2.26; 13100;occ; 46; 0;38213
7; 4413.9; 21-JUN-2009 16:42:10; Dark ; 22.5; 173; 4Bet Tri ; 3.00; 8900;occ; 45; 0;38213
8; 4641.0; 21-JUN-2009 16:45:57; Dark ; 24.0; 50; 13Alp Ari ; 2.01; 4250;occ; 48; 0;38213
9; 5402.7; 21-JUN-2009 16:58:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38213
10; 6006.8; 21-JUN-2009 17:08:43; Dark ; 31.5; 84; Alp Phe ; 2.40; 4500;occ; 63; 0;38213
11; 6392.1; 21-JUN-2009 17:15:08; Dark ; 35.0; 63; Bet Gru ; 2.15; 2800;occ; 70; 0;38213
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4; 1991.6; 21-JUN-2009 17:42:23; Bright; 29.0; 126; 60Bet Oph ; 2.77; 4250;occ; 58; 0;38214
5; 2137.1; 21-JUN-2009 17:44:49; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38214
6; 2838.7; 21-JUN-2009 17:56:31; Bright; 28.5; 130; 23Bet Dra ; 2.80; 5800;occ; 57; 0;38214
7; 3876.4; 21-JUN-2009 18:13:48; Bright; 25.0; 76; 27Gam Cas ; 2.30; 30000;occ; 50; 0;38214
8; 4271.6; 21-JUN-2009 18:20:23; Bright; 22.5; 73; 57Gam1And ; 2.26; 13100;occ; 45; 0;38214
9; 4414.0; 21-JUN-2009 18:22:46; Dark ; 22.5; 173; 4Bet Tri ; 3.00; 8900;occ; 45; 0;38214
10; 4641.3; 21-JUN-2009 18:26:33; Dark ; 24.0; 50; 13Alp Ari ; 2.01; 4250;occ; 48; 0;38214
11; 5403.3; 21-JUN-2009 18:39:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38214
12; 6007.5; 21-JUN-2009 18:49:19; Dark ; 31.5; 84; Alp Phe ; 2.40; 4500;occ; 63; 0;38214
13; 6393.2; 21-JUN-2009 18:55:45; Dark ; 35.0; 63; Bet Gru ; 2.15; 2800;occ; 70; 0;38214
14; 6515.7; 21-JUN-2009 18:57:48; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38214
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3; 1624.0; 21-JUN-2009 19:16:52; Bright; 26.0; 86; 35Eta Oph ; 2.43; 10200;occ; 52; 0;38215
4; 1991.4; 21-JUN-2009 19:22:59; Bright; 29.0; 126; 60Bet Oph ; 2.77; 4250;occ; 58; 0;38215
5; 2136.8; 21-JUN-2009 19:25:25; Bright; 29.0; 59; 55Alp Oph ; 2.08; 8900;occ; 58; 0;38215
6; 2838.5; 21-JUN-2009 19:37:06; Bright; 28.5; 130; 23Bet Dra ; 2.80; 5800;occ; 57; 0;38215
7; 3876.4; 21-JUN-2009 19:54:24; Bright; 24.5; 76; 27Gam Cas ; 2.30; 30000;occ; 49; 0;38215
8; 4270.8; 21-JUN-2009 20:00:59; Bright; 23.0; 73; 57Gam1And ; 2.26; 13100;occ; 46; 0;38215
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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 7; 3875.9; 21-JUN-2009 21:35:00; Bright; 25.0; 76; 27Gam Cas ; 2.30; 30000;occ; 50; 0;38216
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 5; 1236.2; 21-JUN-2009 22:31:36; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38217
 6; 1322.2; 21-JUN-2009 22:33:02; Dark ; 28.0; 116; 19Del Sgr ; 2.70; 4100;occ; 56; 0;38217
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 12; 4414.1; 21-JUN-2009 23:24:34; Dark ; 22.5; 173; 4Bet Tri ; 3.00; 8900;occ; 45; 0;38217
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 6; 1322.8; 22-JUN-2009 01:54:14; Dark ; 28.0; 116; 19Del Sgr ; 2.70; 4100;occ; 56; 0;38219
 7; 1624.8; 22-JUN-2009 01:59:16; Bright; 25.5; 86; 35Eta Oph ; 2.43; 10200;occ; 51; 0;38219
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10; 1237.5; 22-JUN-2009 03:33:25; Dark ; 27.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 55; 0;38220
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 5; -628.1; 22-JUN-2009 06:23:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38221
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 7; 364.3; 22-JUN-2009 06:40:04; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38222
 8; 486.5; 22-JUN-2009 06:42:06; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38222
 9; 680.6; 22-JUN-2009 06:45:20; Dark ; 28.0; 45; Alp Pav ; 1.94; 26000;occ; 56; 0;38222
 10; 1238.0; 22-JUN-2009 06:54:37; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38222
 11; 1323.8; 22-JUN-2009 06:56:03; Dark ; 28.0; 116; 19Del Sgr ; 2.70; 4100;occ; 56; 0;38222



12; 1400.1; 22-JUN-2009 06:57:19; Bright; 28.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 56; 0;38222
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20090622_070710_000054732080_00092_38222_4309.N1
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2; 2136.2; 22-JUN-2009 07:09:36; Bright; 28.5; 59; 55Alp Oph ; 2.08; 8900;occ; 57; 0;38222
3; 2448.1; 22-JUN-2009 07:14:48; Bright; 26.0; 133; 40Zet Her ; 2.81; 6000;occ; 52; 0;38222
4; 2836.7; 22-JUN-2009 07:21:16; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38222
5; 3874.0; 22-JUN-2009 07:38:33; Bright; 25.0; 76; 27Gam Cas ; 2.30; 30000;occ; 50; 0;38222
6; 4065.1; 22-JUN-2009 07:41:44; Bright; 21.0; 160; 23Gam Per ; 2.93; 4700;occ; 42; 0;38222
7; 4270.9; 22-JUN-2009 07:45:10; Bright; 23.0; 73; 57Gam1And ; 2.26; 13100;occ; 46; 0;38222
8; 4414.6; 22-JUN-2009 07:47:34; Dark ; 23.0; 173; 4Bet Tri ; 3.00; 8900;occ; 46; 0;38222
9; 4643.4; 22-JUN-2009 07:51:23; Dark ; 24.0; 50; 13Alp Ari ; 2.01; 4250;occ; 48; 0;38222
10; 5408.4; 22-JUN-2009 08:04:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38222
11; 6014.5; 22-JUN-2009 08:14:14; Dark ; 32.0; 84; Alp Phe ; 2.40; 4500;occ; 64; 0;38222
12; 6400.9; 22-JUN-2009 08:20:40; Dark ; 35.0; 63; Bet Gru ; 2.15; 2800;occ; 70; 0;38222
13; 6523.4; 22-JUN-2009 08:22:43; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38222
14; 6716.9; 22-JUN-2009 08:25:56; Dark ; 28.5; 45; Alp Pav ; 1.94; 26000;occ; 57; 0;38222
15; 7274.3; 22-JUN-2009 08:35:14; Dark ; 27.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 55; 0;38222
16; 7359.7; 22-JUN-2009 08:36:39; Dark ; 28.5; 116; 19Del Sgr ; 2.70; 4100;occ; 57; 0;38222
17; 7436.0; 22-JUN-2009 08:37:55; Bright; 28.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 57; 0;38222
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20090622_084746_000054742080_00093_38223_4310.N1
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2; 2135.8; 22-JUN-2009 08:50:11; Bright; 28.5; 59; 55Alp Oph ; 2.08; 8900;occ; 57; 0;38223
3; 2836.6; 22-JUN-2009 09:01:52; Bright; 27.5; 130; 23Bet Dra ; 2.80; 5800;occ; 55; 0;38223
4; 3873.8; 22-JUN-2009 09:19:09; Bright; 25.0; 76; 27Gam Cas ; 2.30; 30000;occ; 50; 0;38223
5; 4270.9; 22-JUN-2009 09:25:46; Bright; 23.0; 73; 57Gam1And ; 2.26; 13100;occ; 46; 0;38223
6; 4414.6; 22-JUN-2009 09:28:10; Dark ; 23.0; 173; 4Bet Tri ; 3.00; 8900;occ; 46; 0;38223
7; 4643.6; 22-JUN-2009 09:31:59; Dark ; 24.0; 50; 13Alp Ari ; 2.01; 4250;occ; 48; 0;38223
8; 5409.0; 22-JUN-2009 09:44:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38223
9; 6015.6; 22-JUN-2009 09:54:51; Dark ; 32.0; 84; Alp Phe ; 2.40; 4500;occ; 64; 0;38223
10; 6402.1; 22-JUN-2009 10:01:17; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38223
11; 6524.4; 22-JUN-2009 10:03:20; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38223
12; 7274.6; 22-JUN-2009 10:15:50; Dark ; 27.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 55; 0;38223
13; 7360.3; 22-JUN-2009 10:17:16; Dark ; 28.0; 116; 19Del Sgr ; 2.70; 4100;occ; 56; 0;38223
14; 7436.3; 22-JUN-2009 10:18:32; Bright; 28.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 57; 0;38223
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2; 2135.6; 22-JUN-2009 10:30:47; Bright; 28.5; 59; 55Alp Oph ; 2.08; 8900;occ; 57; 0;38224
3; 2836.3; 22-JUN-2009 10:42:27; Bright; 27.5; 130; 23Bet Dra ; 2.80; 5800;occ; 55; 0;38224
4; 3873.0; 22-JUN-2009 10:59:44; Bright; 25.5; 76; 27Gam Cas ; 2.30; 30000;occ; 51; 0;38224
5; 4270.6; 22-JUN-2009 11:06:22; Bright; 23.5; 73; 57Gam1And ; 2.26; 13100;occ; 47; 0;38224
6; 4414.8; 22-JUN-2009 11:08:46; Dark ; 23.0; 173; 4Bet Tri ; 3.00; 8900;occ; 46; 0;38224
7; 4643.6; 22-JUN-2009 11:12:35; Dark ; 24.0; 50; 13Alp Ari ; 2.01; 4250;occ; 48; 0;38224
8; 5409.7; 22-JUN-2009 11:25:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38224
9; 6016.4; 22-JUN-2009 11:35:28; Dark ; 32.0; 84; Alp Phe ; 2.40; 4500;occ; 64; 0;38224
10; 6402.9; 22-JUN-2009 11:41:54; Dark ; 35.0; 63; Bet Gru ; 2.15; 2800;occ; 70; 0;38224
11; 6525.5; 22-JUN-2009 11:43:57; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38224
12; 6717.8; 22-JUN-2009 11:47:09; Dark ; 28.5; 45; Alp Pav ; 1.94; 26000;occ; 57; 0;38224
13; 7274.5; 22-JUN-2009 11:56:26; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38224
14; 7360.2; 22-JUN-2009 11:57:51; Dark ; 28.0; 116; 19Del Sgr ; 2.70; 4100;occ; 56; 0;38224
15; 7436.1; 22-JUN-2009 11:59:07; Bright; 28.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 57; 0;38224
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2; 2135.2; 22-JUN-2009 12:11:22; Bright; 28.5; 59; 55Alp Oph ; 2.08; 8900;occ; 57; 0;38225
3; 2835.9; 22-JUN-2009 12:23:03; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;38225
4; 3872.8; 22-JUN-2009 12:40:20; Bright; 25.5; 76; 27Gam Cas ; 2.30; 30000;occ; 51; 0;38225
5; 4270.8; 22-JUN-2009 12:46:58; Bright; 23.5; 73; 57Gam1And ; 2.26; 13100;occ; 47; 0;38225
6; 4414.9; 22-JUN-2009 12:49:22; Dark ; 23.0; 173; 4Bet Tri ; 3.00; 8900;occ; 46; 0;38225
7; 4643.8; 22-JUN-2009 12:53:11; Dark ; 24.5; 50; 13Alp Ari ; 2.01; 4250;occ; 49; 0;38225
8; 5410.3; 22-JUN-2009 13:05:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38225
9; 6017.7; 22-JUN-2009 13:16:05; Dark ; 31.5; 84; Alp Phe ; 2.40; 4500;occ; 63; 0;38225
10; 6404.1; 22-JUN-2009 13:22:31; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38225
11; 6526.6; 22-JUN-2009 13:24:34; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38225
12; 6718.4; 22-JUN-2009 13:27:45; Dark ; 28.5; 45; Alp Pav ; 1.94; 26000;occ; 57; 0;38225
13; 7275.0; 22-JUN-2009 13:37:02; Dark ; 27.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 55; 0;38225
14; 7360.7; 22-JUN-2009 13:38:28; Dark ; 28.0; 116; 19Del Sgr ; 2.70; 4100;occ; 56; 0;38225
15; 7436.9; 22-JUN-2009 13:39:44; Bright; 28.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 56; 0;38225
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2; 2135.4; 22-JUN-2009 13:51:58; Bright; 28.5; 59; 55Alp Oph ; 2.08; 8900;occ; 57; 0;38226
 3; 2835.9; 22-JUN-2009 14:03:39; Bright; 27.5; 130; 23Bet Dra ; 2.80; 5800;occ; 55; 0;38226
 4; 3872.7; 22-JUN-2009 14:20:56; Bright; 25.5; 76; 27Gam Cas ; 2.30; 30000;occ; 51; 0;38226
 5; 4271.1; 22-JUN-2009 14:27:34; Bright; 23.0; 73; 57Gam1And ; 2.26; 13100;occ; 46; 0;38226
 6; 4415.0; 22-JUN-2009 14:29:58; Dark ; 23.0; 173; 4Bet Tri ; 3.00; 8900;occ; 46; 0;38226
 7; 4644.5; 22-JUN-2009 14:33:47; Dark ; 24.0; 50; 13Alp Ari ; 2.01; 4250;occ; 48; 0;38226
 8; 5411.0; 22-JUN-2009 14:46:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38226
 9; 6018.4; 22-JUN-2009 14:56:41; Dark ; 32.0; 84; Alp Phe ; 2.40; 4500;occ; 64; 0;38226
 10; 6405.4; 22-JUN-2009 15:03:08; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38226
 11; 6527.5; 22-JUN-2009 15:05:10; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38226
 12; 7275.2; 22-JUN-2009 15:17:38; Dark ; 28.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 56; 0;38226
 13; 7360.9; 22-JUN-2009 15:19:04; Dark ; 27.5; 116; 19Del Sgr ; 2.70; 4100;occ; 55; 0;38226

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20090622_151921_000059352080_00097_38227_4314.N1

1; 1342.5; 22-JUN-2009 15:19:21; Dark ; 28.0; 116; 19Del Sgr ; 2.70; 4100;occ; 56; 35;38227
 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
 6; 3872.7; 22-JUN-2009 16:01:32; Bright; 25.0; 76; 27Gam Cas ; 2.30; 30000;occ; 50; 0;38227
 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

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20090622_165814_000055082080_00098_38228_4315.N1

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 2; 1325.3; 22-JUN-2009 16:59:40; Dark ; 28.0; 116; 19Del Sgr ; 2.70; 4100;occ; 56; 0;38228
 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
 5; 2135.0; 22-JUN-2009 17:13:10; Bright; 28.5; 59; 55Alp Oph ; 2.08; 8900;occ; 57; 0;38228
 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
 10; 4645.0; 22-JUN-2009 17:55:00; Dark ; 24.0; 50; 13Alp Ari ; 2.01; 4250;occ; 48; 0;38228
 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
 16; 6720.3; 22-JUN-2009 18:29:35; Dark ; 28.0; 45; Alp Pav ; 1.94; 26000;occ; 56; 0;38228

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20090622_183851_000055082080_00099_38229_4316.N1

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 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
 19; 6720.4; 22-JUN-2009 20:10:11; Dark ; 28.0; 45; Alp Pav ; 1.94; 26000;occ; 56; 0;38229

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090623_005013_000055782080_00102_38232_8045.N1

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```

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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
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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
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090623_023050_000034802080_00103_38233_8046.N1
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2; -11.1; 23-JUN-2009 02:40:59; Dark ; 32.0; 84; Alp Phe ; 2.40; 4500;occ; 64; 0;38233
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
6; 1241.7; 23-JUN-2009 03:01:52; Dark ; 27.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 55; 0;38234
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8; 2952.9; 23-JUN-2009 16:55:11; Bright; 25.0; 119; 14Eta Dra ; 2.73; 4700;occ; 50; 0;38242
9; 4065.4; 23-JUN-2009 17:13:43; Bright; 21.0; 160; 23Gam Per ; 2.93; 4700;occ; 42; 0;38242
10; 4288.2; 23-JUN-2009 17:17:26; Bright; 20.5; 79; 26Bet Per ; 2.31; 13100;occ; 41; 0;38242
11; 4938.9; 23-JUN-2009 17:28:17; Dark ; 22.0; 94; 92Alp Cet ; 2.53; 3100;occ; 44; 0;38242
12; 5421.7; 23-JUN-2009 17:36:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38242
13; 6456.8; 23-JUN-2009 17:53:35; Dark ; 28.5; 148; Alp Tuc ; 2.88; 4100;occ; 57; 0;38242
14; 6728.0; 23-JUN-2009 17:58:06; Dark ; 27.5; 45; Alp Pav ; 1.94; 26000;occ; 55; 0;38242
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2; 1248.7; 23-JUN-2009 18:07:23; Dark ; 24.5; 25; 35Lam Sco ; 1.62; 28000;occ; 49; 0;38243
3; 1329.7; 23-JUN-2009 18:08:44; Dark ; 27.5; 116; 19Del Sgr ; 2.70; 4100;occ; 55; 0;38243
4; 1628.3; 23-JUN-2009 18:13:42; Bright; 25.0; 86; 35Eta Oph ; 2.43; 10200;occ; 50; 0;38243
5; 1732.4; 23-JUN-2009 18:15:26; Bright; 24.0; 98; 13Zet Oph ; 2.57; 30000;occ; 48; 0;38243
6; 1988.6; 23-JUN-2009 18:19:42; Bright; 28.0; 126; 60Bet Oph ; 2.77; 4250;occ; 56; 0;38243
7; 2132.7; 23-JUN-2009 18:22:07; Bright; 28.0; 59; 55Alp Oph ; 2.08; 8900;occ; 56; 0;38243
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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 9; 2447.0; 23-JUN-2009 18:27:21; Bright; 26.0; 133; 40Zet Her ; 2.81; 6000;occ; 52; 0;38243
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11; 2952.9; 23-JUN-2009 18:35:47; Bright; 25.0; 119; 14Eta Dra ; 2.73; 4700;occ; 50; 0;38243
12; 4065.3; 23-JUN-2009 18:54:19; Bright; 21.0; 160; 23Gam Per ; 2.93; 4700;occ; 42; 0;38243
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14; 4938.9; 23-JUN-2009 19:08:53; Dark ; 22.0; 94; 92Alp Cet ; 2.53; 3100;occ; 44; 0;38243
15; 5422.4; 23-JUN-2009 19:16:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38243
16; 6457.6; 23-JUN-2009 19:34:11; Dark ; 28.5; 148; Alp Tuc ; 2.88; 4100;occ; 57; 0;38243
17; 6728.7; 23-JUN-2009 19:38:43; Dark ; 27.5; 45; Alp Pav ; 1.94; 26000;occ; 55; 0;38243
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 3; 694.0; 24-JUN-2009 00:40:31; Dark ; 28.0; 45; Alp Pav ; 1.94; 26000;occ; 56; 0;38247
 4; 1043.6; 24-JUN-2009 00:46:21; Dark ; 22.5; 147; Alp Ara ; 2.88; 26000;occ; 45; 0;38247
 5; 1148.3; 24-JUN-2009 00:48:06; Dark ; 25.0; 40; The Sco ; 1.86; 7100;occ; 50; 0;38247
 6; 1249.2; 24-JUN-2009 00:49:47; Dark ; 25.0; 25; 35Lam Sco ; 1.62; 28000;occ; 50; 0;38247
 7; 1330.7; 24-JUN-2009 00:51:08; Dark ; 27.5; 116; 19Del Sgr ; 2.70; 4100;occ; 55; 0;38247
 8; 1628.6; 24-JUN-2009 00:56:06; Bright; 25.0; 86; 35Eta Oph ; 2.43; 10200;occ; 50; 0;38247
 9; 1987.8; 24-JUN-2009 01:02:05; Bright; 28.0; 126; 60Bet Oph ; 2.77; 4250;occ; 56; 0;38247
10; 2131.7; 24-JUN-2009 01:04:29; Bright; 28.0; 59; 55Alp Oph ; 2.08; 8900;occ; 56; 0;38247
11; 2446.4; 24-JUN-2009 01:09:44; Bright; 26.5; 133; 40Zet Her ; 2.81; 6000;occ; 53; 0;38247
12; 2830.0; 24-JUN-2009 01:16:07; Bright; 27.5; 130; 23Bet Dra ; 2.80; 5800;occ; 55; 0;38247
13; 2952.3; 24-JUN-2009 01:18:10; Bright; 25.5; 119; 14Eta Dra ; 2.73; 4700;occ; 51; 0;38247
14; 3446.0; 24-JUN-2009 01:26:23; Bright; 23.5; 49; 1Alp UMi ; 1.99; 6300;occ; 47; 0;38247
15; 4065.1; 24-JUN-2009 01:36:43; Bright; 21.0; 160; 23Gam Per ; 2.93; 4700;occ; 42; 0;38247
16; 4288.1; 24-JUN-2009 01:40:26; Bright; 21.0; 79; 26Bet Per ; 2.31; 13100;occ; 42; 0;38247
17; 4940.4; 24-JUN-2009 01:51:18; Dark ; 21.5; 94; 92Alp Cet ; 2.53; 3100;occ; 43; 0;38247
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 2; 423.8; 24-JUN-2009 02:16:37; Dark ; 28.5; 148; Alp Tuc ; 2.88; 4100;occ; 57; 0;38248
 3; 694.6; 24-JUN-2009 02:21:08; Dark ; 28.5; 45; Alp Pav ; 1.94; 26000;occ; 57; 0;38248
 4; 1249.2; 24-JUN-2009 02:30:23; Dark ; 25.0; 25; 35Lam Sco ; 1.62; 28000;occ; 50; 0;38248
 5; 1330.7; 24-JUN-2009 02:31:44; Dark ; 27.5; 116; 19Del Sgr ; 2.70; 4100;occ; 55; 0;38248
 6; 1628.6; 24-JUN-2009 02:36:42; Bright; 25.0; 86; 35Eta Oph ; 2.43; 10200;occ; 50; 0;38248
 7; 2131.6; 24-JUN-2009 02:45:05; Bright; 28.0; 59; 55Alp Oph ; 2.08; 8900;occ; 56; 0;38248
 8; 2446.5; 24-JUN-2009 02:50:20; Bright; 26.0; 133; 40Zet Her ; 2.81; 6000;occ; 52; 0;38248
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10; 2952.0; 24-JUN-2009 02:58:45; Bright; 25.5; 119; 14Eta Dra ; 2.73; 4700;occ; 51; 0;38248
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 3;-1094.9; 24-JUN-2009 03:31:54; Dark ; 22.0; 94; 92Alp Cet ; 2.53; 3100;occ; 44; 0;38248
 4; -610.2; 24-JUN-2009 03:39:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38248
 5; -9.0; 24-JUN-2009 03:50:00; Dark ; 26.5; 9; Alp Eri ; 0.45; 24000;occ; 53; 0;38248
 6; 424.5; 24-JUN-2009 03:57:14; Dark ; 28.5; 148; Alp Tuc ; 2.88; 4100;occ; 57; 0;38249
 7; 694.8; 24-JUN-2009 04:01:44; Dark ; 28.5; 45; Alp Pav ; 1.94; 26000;occ; 57; 0;38249
 8; 1249.6; 24-JUN-2009 04:10:59; Dark ; 25.0; 25; 35Lam Sco ; 1.62; 28000;occ; 50; 0;38249
 9; 1331.1; 24-JUN-2009 04:12:20; Dark ; 27.5; 116; 19Del Sgr ; 2.70; 4100;occ; 55; 0;38249
10; 1628.8; 24-JUN-2009 04:17:18; Bright; 25.0; 86; 35Eta Oph ; 2.43; 10200;occ; 50; 0;38249
11; 1987.5; 24-JUN-2009 04:23:17; Bright; 28.0; 126; 60Bet Oph ; 2.77; 4250;occ; 56; 0;38249
12; 2131.5; 24-JUN-2009 04:25:41; Bright; 28.0; 59; 55Alp Oph ; 2.08; 8900;occ; 56; 0;38249
13; 2446.5; 24-JUN-2009 04:30:56; Bright; 26.0; 133; 40Zet Her ; 2.81; 6000;occ; 52; 0;38249
14; 2829.3; 24-JUN-2009 04:37:19; Bright; 27.5; 130; 23Bet Dra ; 2.80; 5800;occ; 55; 0;38249
15; 2952.1; 24-JUN-2009 04:39:21; Bright; 25.5; 119; 14Eta Dra ; 2.73; 4700;occ; 51; 0;38249
16; 3446.3; 24-JUN-2009 04:47:36; Bright; 22.5; 49; 1Alp UMi ; 1.99; 6300;occ; 45; 0;38249
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 2;-1747.6; 24-JUN-2009 05:01:38; Bright; 21.0; 79; 26Bet Per ; 2.31; 13100;occ; 42; 0;38249
 3;-1094.7; 24-JUN-2009 05:12:31; Dark ; 22.0; 94; 92Alp Cet ; 2.53; 3100;occ; 44; 0;38249
 4; -609.5; 24-JUN-2009 05:20:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38249
 5; 424.7; 24-JUN-2009 05:37:50; Dark ; 29.0; 148; Alp Tuc ; 2.88; 4100;occ; 58; 0;38250
 6; 695.4; 24-JUN-2009 05:42:21; Dark ; 28.5; 45; Alp Pav ; 1.94; 26000;occ; 57; 0;38250
 7; 1250.6; 24-JUN-2009 05:51:36; Dark ; 24.5; 25; 35Lam Sco ; 1.62; 28000;occ; 49; 0;38250
 8; 1331.6; 24-JUN-2009 05:52:57; Dark ; 27.5; 116; 19Del Sgr ; 2.70; 4100;occ; 55; 0;38250
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```

2; 1337.5; 25-JUN-2009 20:26:49; Dark ; 27.0; 116; 19Del Sgr ; 2.70; 4100;occ; 54; 0;38273
3; 1466.5; 25-JUN-2009 20:28:58; Bright; 31.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 63; 0;38273
4; 1985.8; 25-JUN-2009 20:37:38; Bright; 27.5; 126; 60Bet Oph ; 2.77; 4250;occ; 55; 0;38273
5; 2128.0; 25-JUN-2009 20:40:00; Bright; 27.5; 59; 55Alp Oph ; 2.08; 8900;occ; 55; 0;38273
6; 2692.3; 25-JUN-2009 20:49:24; Bright; 32.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 65; 0;38273
7; 2823.6; 25-JUN-2009 20:51:35; Bright; 27.0; 130; 23Bet Dra ; 2.80; 5800;occ; 54; 0;38273
8; 3394.4; 25-JUN-2009 21:01:06; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38273
9; 3820.9; 25-JUN-2009 21:08:13; Bright; 28.5; 74; 11Bet Cas ; 2.27; 6600;occ; 57; 0;38273
10; 3916.9; 25-JUN-2009 21:09:49; Bright; 27.0; 68; 18Alp Cas ; 2.22; 4500;occ; 54; 0;38273
11; 4064.6; 25-JUN-2009 21:12:16; Bright; 21.5; 160; 23Gam Per ; 2.93; 4700;occ; 43; 0;38273
12; 4270.5; 25-JUN-2009 21:15:42; Bright; 23.5; 73; 57Gam1And ; 2.26; 13100;occ; 47; 0;38273
13; 4419.4; 25-JUN-2009 21:18:11; Dark ; 23.5; 173; 4Bet Tri ; 3.00; 8900;occ; 47; 0;38273
14; 4657.6; 25-JUN-2009 21:22:09; Dark ; 24.0; 50; 13Alp Ari ; 2.01; 4250;occ; 48; 0;38273
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2; 26.0; 25-JUN-2009 21:45:34; Dark ; 32.5; 84; Alp Phe ; 2.40; 4500;occ; 65; 0;38274
3; 415.6; 25-JUN-2009 21:52:03; Dark ; 34.5; 63; Bet Gru ; 2.15; 2800;occ; 69; 0;38274
4; 536.3; 25-JUN-2009 21:54:04; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38274
5; 1253.7; 25-JUN-2009 22:06:01; Dark ; 27.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 54; 0;38274
6; 1337.7; 25-JUN-2009 22:07:25; Dark ; 27.5; 116; 19Del Sgr ; 2.70; 4100;occ; 55; 0;38274
7; 1466.5; 25-JUN-2009 22:09:34; Bright; 32.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 64; 0;38274
8; 1985.9; 25-JUN-2009 22:18:13; Bright; 27.0; 126; 60Bet Oph ; 2.77; 4250;occ; 54; 0;38274
9; 2128.4; 25-JUN-2009 22:20:36; Bright; 27.0; 59; 55Alp Oph ; 2.08; 8900;occ; 54; 0;38274
10; 2691.4; 25-JUN-2009 22:29:59; Bright; 33.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 66; 0;38274
11; 2823.0; 25-JUN-2009 22:32:11; Bright; 27.5; 130; 23Bet Dra ; 2.80; 5800;occ; 55; 0;38274
12; 3393.6; 25-JUN-2009 22:41:41; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38274
13; 3820.8; 25-JUN-2009 22:48:48; Bright; 28.0; 74; 11Bet Cas ; 2.27; 6600;occ; 56; 0;38274
14; 3916.2; 25-JUN-2009 22:50:24; Bright; 27.5; 68; 18Alp Cas ; 2.22; 4500;occ; 55; 0;38274
15; 4064.8; 25-JUN-2009 22:52:52; Bright; 21.5; 160; 23Gam Per ; 2.93; 4700;occ; 43; 0;38274
16; 4269.9; 25-JUN-2009 22:56:17; Bright; 24.0; 73; 57Gam1And ; 2.26; 13100;occ; 48; 0;38274
17; 4419.3; 25-JUN-2009 22:58:47; Dark ; 23.5; 173; 4Bet Tri ; 3.00; 8900;occ; 47; 0;38274
18; 4657.6; 25-JUN-2009 23:02:45; Dark ; 24.5; 50; 13Alp Ari ; 2.01; 4250;occ; 49; 0;38274
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3; 416.1; 25-JUN-2009 23:32:40; Dark ; 35.0; 63; Bet Gru ; 2.15; 2800;occ; 70; 0;38275
4; 536.8; 25-JUN-2009 23:34:40; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;38275
5; 1254.2; 25-JUN-2009 23:46:38; Dark ; 27.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 54; 0;38275
6; 1338.8; 25-JUN-2009 23:48:02; Dark ; 26.5; 116; 19Del Sgr ; 2.70; 4100;occ; 53; 0;38275
7; 1466.9; 25-JUN-2009 23:50:10; Bright; 31.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 63; 0;38275
8; 1985.2; 25-JUN-2009 23:58:49; Bright; 27.5; 126; 60Bet Oph ; 2.77; 4250;occ; 55; 0;38275
9; 2127.8; 26-JUN-2009 00:01:11; Bright; 27.5; 59; 55Alp Oph ; 2.08; 8900;occ; 55; 0;38275
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12; 3392.5; 26-JUN-2009 00:22:16; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38275
13; 3820.5; 26-JUN-2009 00:29:24; Bright; 28.0; 74; 11Bet Cas ; 2.27; 6600;occ; 56; 0;38275
14; 3915.8; 26-JUN-2009 00:30:59; Bright; 27.0; 68; 18Alp Cas ; 2.22; 4500;occ; 54; 0;38275
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16; 4270.2; 26-JUN-2009 00:36:54; Bright; 23.5; 73; 57Gam1And ; 2.26; 13100;occ; 47; 0;38275
17; 4419.3; 26-JUN-2009 00:39:23; Dark ; 23.5; 173; 4Bet Tri ; 3.00; 8900;occ; 47; 0;38275
18; 4657.5; 26-JUN-2009 00:43:21; Dark ; 24.5; 50; 13Alp Ari ; 2.01; 4250;occ; 49; 0;38275
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2; 532.7; 25-JUN-2009 15:11:36; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38270
3; 707.9; 25-JUN-2009 15:14:32; Dark ; 27.0; 45; Alp Pav ; 1.94; 26000;occ; 54; 0;38270
4; 1253.2; 25-JUN-2009 15:23:37; Dark ; 26.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 53; 0;38270
5; 1337.2; 25-JUN-2009 15:25:01; Dark ; 26.5; 116; 19Del Sgr ; 2.70; 4100;occ; 53; 0;38270
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3; 2128.8; 25-JUN-2009 15:38:13; Bright; 27.5; 59; 55Alp Oph ; 2.08; 8900;occ; 55; 0;38270
4; 2694.0; 25-JUN-2009 15:47:38; Bright; 33.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 66; 0;38270
5; 2824.0; 25-JUN-2009 15:49:48; Bright; 27.5; 130; 23Bet Dra ; 2.80; 5800;occ; 55; 0;38270
6; 3396.1; 25-JUN-2009 15:59:20; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38270
7; 3822.5; 25-JUN-2009 16:06:26; Bright; 28.0; 74; 11Bet Cas ; 2.27; 6600;occ; 56; 0;38270
8; 3918.0; 25-JUN-2009 16:08:02; Bright; 27.0; 68; 18Alp Cas ; 2.22; 4500;occ; 54; 0;38270
9; 4065.1; 25-JUN-2009 16:10:29; Bright; 21.5; 160; 23Gam Per ; 2.93; 4700;occ; 43; 0;38270
10; 4270.0; 25-JUN-2009 16:13:54; Bright; 24.0; 73; 57Gam1And ; 2.26; 13100;occ; 48; 0;38270

```

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12; 4656.1; 25-JUN-2009 16:20:20; Dark ; 25.0; 50; 13Alp Ari ; 2.01; 4250;occ; 50; 0;38270
13; 5441.5; 25-JUN-2009 16:33:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38270
14; 6058.9; 25-JUN-2009 16:43:43; Dark ; 32.5; 84; Alp Phe ; 2.40; 4500;occ; 65; 0;38270
15; 6448.3; 25-JUN-2009 16:50:12; Dark ; 35.0; 63; Bet Gru ; 2.15; 2800;occ; 70; 0;38270
16; 6569.2; 25-JUN-2009 16:52:13; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38270
17; 6745.6; 25-JUN-2009 16:55:09; Dark ; 25.5; 45; Alp Pav ; 1.94; 26000;occ; 51; 0;38270
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 2; 1337.6; 25-JUN-2009 17:05:37; Dark ; 26.5; 116; 19Del Sgr ; 2.70; 4100;occ; 53; 0;38271
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 4; 1986.1; 25-JUN-2009 17:16:26; Bright; 27.0; 126; 60Bet Oph ; 2.77; 4250;occ; 54; 0;38271
 5; 2128.5; 25-JUN-2009 17:18:48; Bright; 27.5; 59; 55Alp Oph ; 2.08; 8900;occ; 55; 0;38271
 6; 2693.8; 25-JUN-2009 17:28:13; Bright; 32.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 65; 0;38271
 7; 2823.8; 25-JUN-2009 17:30:24; Bright; 27.5; 130; 23Bet Dra ; 2.80; 5800;occ; 55; 0;38271
 8; 3395.4; 25-JUN-2009 17:39:55; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38271
 9; 3822.1; 25-JUN-2009 17:47:02; Bright; 28.0; 74; 11Bet Cas ; 2.27; 6600;occ; 56; 0;38271
10; 3917.4; 25-JUN-2009 17:48:37; Bright; 27.0; 68; 18Alp Cas ; 2.22; 4500;occ; 54; 0;38271
11; 4064.9; 25-JUN-2009 17:51:05; Bright; 21.5; 160; 23Gam Per ; 2.93; 4700;occ; 43; 0;38271
12; 4270.1; 25-JUN-2009 17:54:30; Bright; 23.5; 73; 57Gam1And ; 2.26; 13100;occ; 47; 0;38271
13; 4418.8; 25-JUN-2009 17:56:59; Dark ; 24.0; 173; 4Bet Tri ; 3.00; 8900;occ; 48; 0;38271
14; 4656.4; 25-JUN-2009 18:00:56; Dark ; 25.0; 50; 13Alp Ari ; 2.01; 4250;occ; 50; 0;38271
15; 5442.3; 25-JUN-2009 18:14:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38271
16; 6059.8; 25-JUN-2009 18:24:20; Dark ; 32.5; 84; Alp Phe ; 2.40; 4500;occ; 65; 0;38271
17; 6449.4; 25-JUN-2009 18:30:49; Dark ; 35.0; 63; Bet Gru ; 2.15; 2800;occ; 70; 0;38271
18; 6570.2; 25-JUN-2009 18:32:50; Dark ; 34.0; 31; Alp Gru ; 1.73; 15200;occ; 68; 0;38271
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 2; 1337.7; 25-JUN-2009 18:46:13; Dark ; 27.0; 116; 19Del Sgr ; 2.70; 4100;occ; 54; 0;38272
 3; 1466.1; 25-JUN-2009 18:48:22; Bright; 32.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 64; 0;38272
 4; 1986.1; 25-JUN-2009 18:57:02; Bright; 27.0; 126; 60Bet Oph ; 2.77; 4250;occ; 54; 0;38272
 5; 2128.6; 25-JUN-2009 18:59:24; Bright; 27.5; 59; 55Alp Oph ; 2.08; 8900;occ; 55; 0;38272
 6; 2692.8; 25-JUN-2009 19:08:49; Bright; 33.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 66; 0;38272
 7; 2823.8; 25-JUN-2009 19:11:00; Bright; 27.5; 130; 23Bet Dra ; 2.80; 5800;occ; 55; 0;38272
 8; 3394.7; 25-JUN-2009 19:20:30; Bright; 31.5; 89; 5Alp Cep ; 2.45; 8000;occ; 63; 0;38272
 9; 3821.9; 25-JUN-2009 19:27:38; Bright; 28.0; 74; 11Bet Cas ; 2.27; 6600;occ; 56; 0;38272
10; 3917.2; 25-JUN-2009 19:29:13; Bright; 27.0; 68; 18Alp Cas ; 2.22; 4500;occ; 54; 0;38272
11; 4064.8; 25-JUN-2009 19:31:41; Bright; 21.5; 160; 23Gam Per ; 2.93; 4700;occ; 43; 0;38272
12; 4270.3; 25-JUN-2009 19:35:06; Bright; 23.5; 73; 57Gam1And ; 2.26; 13100;occ; 47; 0;38272
13; 4419.3; 25-JUN-2009 19:37:35; Dark ; 23.5; 173; 4Bet Tri ; 3.00; 8900;occ; 47; 0;38272
14; 4656.7; 25-JUN-2009 19:41:32; Dark ; 25.5; 50; 13Alp Ari ; 2.01; 4250;occ; 51; 0;38272
15; 5443.0; 25-JUN-2009 19:54:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38272
16; 6060.8; 25-JUN-2009 20:04:57; Dark ; 32.5; 84; Alp Phe ; 2.40; 4500;occ; 65; 0;38272
17; 6450.4; 25-JUN-2009 20:11:26; Dark ; 35.0; 63; Bet Gru ; 2.15; 2800;occ; 70; 0;38272
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 3; 417.3; 26-JUN-2009 01:13:17; Dark ; 35.0; 63; Bet Gru ; 2.15; 2800;occ; 70; 0;38276
 4; 537.9; 26-JUN-2009 01:15:17; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38276
 5; 1254.9; 26-JUN-2009 01:27:14; Dark ; 26.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 53; 0;38276
 6; 1338.7; 26-JUN-2009 01:28:38; Dark ; 27.0; 116; 19Del Sgr ; 2.70; 4100;occ; 54; 0;38276
 7; 1466.5; 26-JUN-2009 01:30:46; Bright; 32.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 64; 0;38276
 8; 1985.7; 26-JUN-2009 01:39:25; Bright; 27.0; 126; 60Bet Oph ; 2.77; 4250;occ; 54; 0;38276
 9; 2128.3; 26-JUN-2009 01:41:48; Bright; 27.0; 59; 55Alp Oph ; 2.08; 8900;occ; 54; 0;38276
10; 2690.3; 26-JUN-2009 01:51:10; Bright; 33.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 66; 0;38276
11; 2822.6; 26-JUN-2009 01:53:22; Bright; 27.5; 130; 23Bet Dra ; 2.80; 5800;occ; 55; 0;38276
12; 3392.1; 26-JUN-2009 02:02:51; Bright; 31.0; 89; 5Alp Cep ; 2.45; 8000;occ; 62; 0;38276
13; 3819.7; 26-JUN-2009 02:09:59; Bright; 28.0; 74; 11Bet Cas ; 2.27; 6600;occ; 56; 0;38276
14; 3915.6; 26-JUN-2009 02:11:35; Bright; 27.0; 68; 18Alp Cas ; 2.22; 4500;occ; 54; 0;38276
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 3; -1616.5; 26-JUN-2009 02:19:59; Dark ; 23.5; 173; 4Bet Tri ; 3.00; 8900;occ; 47; 0;38276
 4; -1377.7; 26-JUN-2009 02:23:57; Dark ; 25.0; 50; 13Alp Ari ; 2.01; 4250;occ; 50; 0;38276
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6; 28.7; 26-JUN-2009 02:47:24; Dark ; 32.5; 84; Alp Phe ; 2.40; 4500;occ; 65; 0;38277
7; 418.4; 26-JUN-2009 02:53:54; Dark ; 35.0; 63; Bet Gru ; 2.15; 2800;occ; 70; 0;38277
8; 538.9; 26-JUN-2009 02:55:54; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38277
9; 1255.1; 26-JUN-2009 03:07:50; Dark ; 26.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 53; 0;38277
10; 1339.2; 26-JUN-2009 03:09:14; Dark ; 26.5; 116; 19Del Sgr ; 2.70; 4100;occ; 53; 0;38277
11; 1467.2; 26-JUN-2009 03:11:22; Bright; 31.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 63; 0;38277
12; 1985.8; 26-JUN-2009 03:20:01; Bright; 27.0; 126; 60Bet Oph ; 2.77; 4250;occ; 54; 0;38277
13; 2128.5; 26-JUN-2009 03:22:24; Bright; 26.5; 59; 55Alp Oph ; 2.08; 8900;occ; 53; 0;38277
14; 2689.9; 26-JUN-2009 03:31:45; Bright; 32.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 65; 0;38277
15; 2822.6; 26-JUN-2009 03:33:58; Bright; 27.5; 130; 23Bet Dra ; 2.80; 5800;occ; 55; 0;38277
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4;-1765.9; 26-JUN-2009 03:58:05; Bright; 23.5; 73; 57Gam1And ; 2.26; 13100;occ; 47; 0;38277
5;-1616.5; 26-JUN-2009 04:00:35; Dark ; 23.5; 173; 4Bet Tri ; 3.00; 8900;occ; 47; 0;38277
6;-1377.5; 26-JUN-2009 04:04:34; Dark ; 25.0; 50; 13Alp Ari ; 2.01; 4250;occ; 50; 0;38277
7; -589.3; 26-JUN-2009 04:17:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38277
8; 29.3; 26-JUN-2009 04:28:01; Dark ; 33.0; 84; Alp Phe ; 2.40; 4500;occ; 66; 0;38278
9; 419.3; 26-JUN-2009 04:34:30; Dark ; 35.0; 63; Bet Gru ; 2.15; 2800;occ; 70; 0;38278
10; 539.7; 26-JUN-2009 04:36:31; Dark ; 34.5; 31; Alp Gru ; 1.73; 15200;occ; 69; 0;38278
11; 1255.3; 26-JUN-2009 04:48:26; Dark ; 26.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 53; 0;38278
12; 1339.1; 26-JUN-2009 04:49:50; Dark ; 27.0; 116; 19Del Sgr ; 2.70; 4100;occ; 54; 0;38278
13; 1467.4; 26-JUN-2009 04:51:59; Bright; 31.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 63; 0;38278
14; 1985.2; 26-JUN-2009 05:00:36; Bright; 27.5; 126; 60Bet Oph ; 2.77; 4250;occ; 55; 0;38278
15; 2127.6; 26-JUN-2009 05:02:59; Bright; 27.5; 59; 55Alp Oph ; 2.08; 8900;occ; 55; 0;38278
16; 2689.2; 26-JUN-2009 05:12:20; Bright; 32.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 65; 0;38278
17; 2822.6; 26-JUN-2009 05:14:34; Bright; 27.0; 130; 23Bet Dra ; 2.80; 5800;occ; 54; 0;38278
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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
4;-1766.1; 26-JUN-2009 05:38:41; Bright; 24.0; 73; 57Gam1And ; 2.26; 13100;occ; 48; 0;38278
5;-1616.6; 26-JUN-2009 05:41:11; Dark ; 24.0; 173; 4Bet Tri ; 3.00; 8900;occ; 48; 0;38278
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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
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2; 2241.9; 29-JUN-2009 20:16:01; Bright; 47.0; 168; 17Zet Aql ; 2.99; 11000;occ; 94; 0;38330
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
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2; 81.7; 29-JUN-2009 21:20:37; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;38331
3; 471.4; 29-JUN-2009 21:27:07; Dark ; 51.0; 63; Bet Gru ; 2.15; 2800;occ; 102; 0;38331
4; 588.9; 29-JUN-2009 21:29:04; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38331
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
9; 2936.8; 29-JUN-2009 22:08:12; Bright; 51.0; 144; 18Del Cyg ; 2.86; 11000;occ; 102; 0;38331
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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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6; 1478.0; 29-JUN-2009 23:24:29; Bright; 44.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 88; 0;38332
7; 2240.4; 29-JUN-2009 23:37:12; Bright; 50.5; 168; 17Zet Aql ; 2.99; 11000;occ; 101; 0;38332
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10; 3353.7; 29-JUN-2009 23:55:45; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38332
11; 3792.4; 30-JUN-2009 00:03:04; Bright; 43.5; 74; 11Bet Cas ; 2.27; 6600;occ; 87; 0;38332
12; 3893.1; 30-JUN-2009 00:04:44; Bright; 41.0; 68; 18Alp Cas ; 2.22; 4500;occ; 82; 0;38332
13; 4267.6; 30-JUN-2009 00:10:59; Bright; 35.5; 73; 57Gam1And ; 2.26; 13100;occ; 71; 0;38332
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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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3; 2943.1; 29-JUN-2009 10:24:07; Bright; 50.5; 144; 18Del Cyg ; 2.86; 11000;occ; 101; 0;38324
4; 3359.1; 29-JUN-2009 10:31:03; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38324
5; 3796.6; 29-JUN-2009 10:38:20; Bright; 45.5; 74; 11Bet Cas ; 2.27; 6600;occ; 91; 0;38324
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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
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13; 6619.4; 29-JUN-2009 11:25:23; Dark ; 53.5; 31; Alp Gru ; 1.73; 15200;occ; 107; 0;38324
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5; 3796.2; 29-JUN-2009 12:18:56; Bright; 69.0; 74; 11Bet Cas ; 2.27; 6600;occ; 138; 0;38325
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8; 4423.5; 29-JUN-2009 12:29:23; Dark ; 38.0; 173; 4Bet Tri ; 3.00; 8900;occ; 76; 0;38325
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4; 3357.7; 29-JUN-2009 13:52:13; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 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
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5; 3357.1; 29-JUN-2009 15:32:49; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;38327
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4; 2938.8; 29-JUN-2009 18:47:02; Bright; 48.5; 144; 18Del Cyg ; 2.86; 11000;occ; 97; 0;38329
5; 3355.7; 29-JUN-2009 18:53:59; Bright; 46.0; 89; 5Alp Cep ; 2.45; 8000;occ; 92; 0;38329
6; 3794.1; 29-JUN-2009 19:01:18; Bright; 68.0; 74; 11Bet Cas ; 2.27; 6600;occ; 136; 0;38329
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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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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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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
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11; 3785.6; 30-JUN-2009 23:31:20; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;38346
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
5; 1481.0; 01-JUL-2009 00:33:31; Bright; 44.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 89; 0;38347
6; 2231.9; 01-JUL-2009 00:46:02; Bright; 72.0; 168; 17Zet Aql ; 2.99; 11000;occ; 144; 0;38347
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
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12; 4266.8; 01-JUL-2009 01:19:57; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38347
13; 4424.9; 01-JUL-2009 01:22:35; Dark ; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;38347
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