

GOMOS Daily Report 18-MAY-2007

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	19MAY2007 05:37:07
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START) (18MAY2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP) (19MAY2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

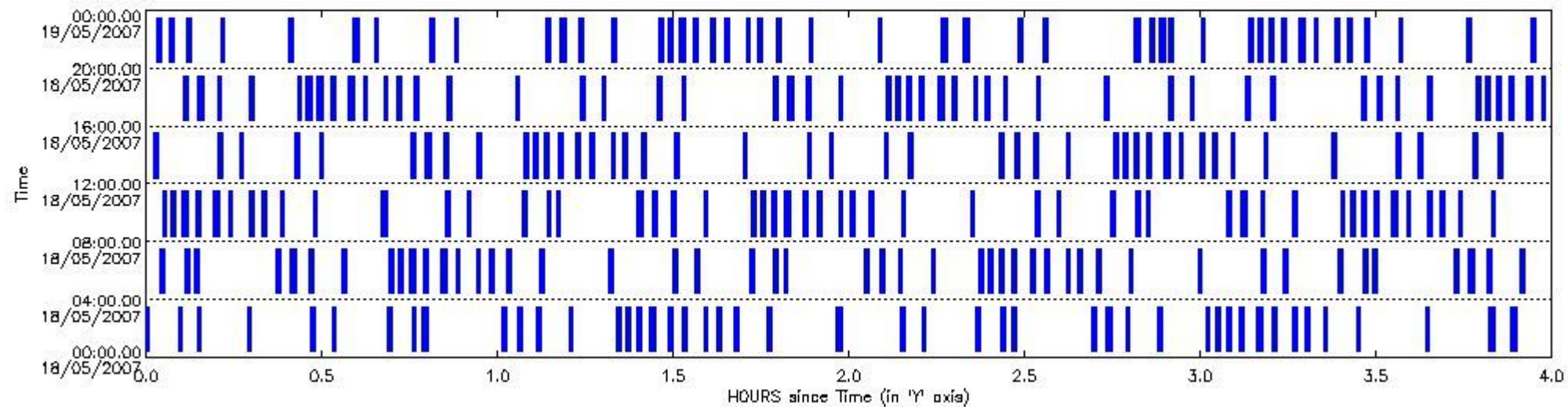
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

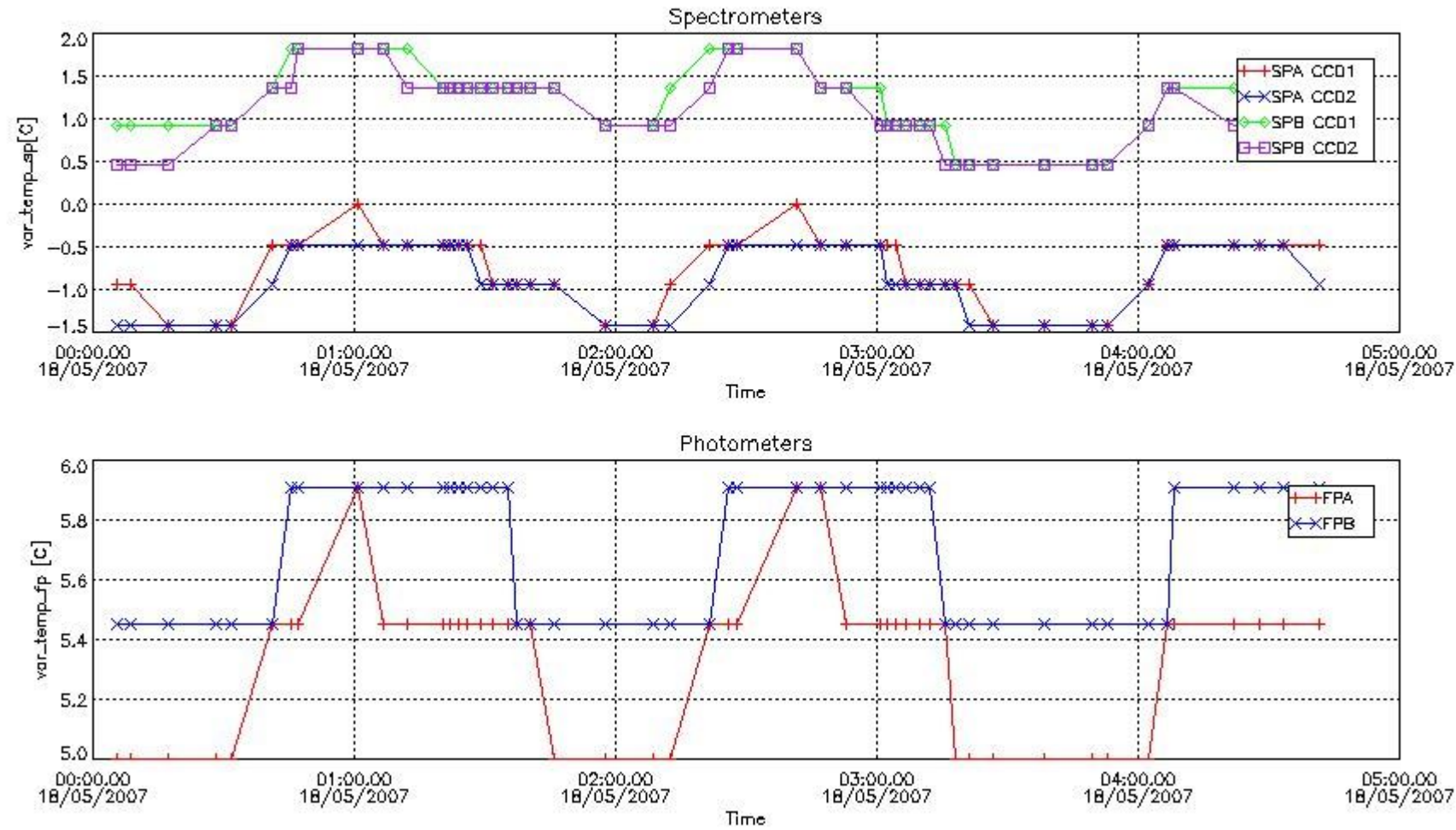
No missing products.

2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20070518_000528_000000382058_00145_27253_0143.N1	18-MAY-2007 00:05:28	Bright	37.500	83		2.3780	11000.	75	27253	No
2	GOM_TRA_1PNPDE20070518_000836_000000342058_00145_27253_0144.N1	18-MAY-2007 00:08:36	Bright	34.000	180	27Gam Boo	3.0400	8000.0	68	27253	No
3	GOM_TRA_1PNPDE20070518_001710_000000432058_00145_27253_0145.N1	18-MAY-2007 00:17:10	Bright	42.500	119	14Eta Dra	2.7270	4700.0	85	27253	No
4	GOM_TRA_1PNPDE20070518_002807_000000502058_00145_27253_0146.N1	18-MAY-2007 00:28:07	Bright	50.000	89	5Alp Cep	2.4510	8000.0	100	27253	No
5	GOM_TRA_1PNPDE20070518_003149_000000372058_00145_27253_0147.N1	18-MAY-2007 00:31:49	Bright	36.500	74	11Bet Cas	2.2680	6600.0	73	27253	No
6	GOM_TRA_1PNPDE20070518_004107_000000462058_00145_27253_0148.N1	18-MAY-2007 00:41:07	Twilight	45.500	58	21Alp And	2.0730	11000.	91	27253	No
7	GOM_TRA_1PNPDE20070518_004519_000000422058_00145_27253_0149.N1	18-MAY-2007 00:45:19	Dark	41.500	140	88Gam Peg	2.8340	26000.	83	27253	No
8	GOM_TRA_1PNPDE20070518_004703_000000562058_00145_27253_0150.N1	18-MAY-2007 00:47:03	Dark	55.500	90	54Alp Peg	2.4870	11000.	111	27253	No
9	GOM_TRA_1PNPDE20070518_010047_000000452058_00145_27253_0263.N1	18-MAY-2007 01:00:47	Dark	45.000	18	24Alp PsA	1.1660	9700.0	90	27253	No
10	GOM_TRA_1PNPDE20070518_010636_000000482058_00146_27254_0264.N1	18-MAY-2007 01:06:36	Dark	48.000	31	Alp Gru	1.7340	15200.	96	27254	No
11	GOM_TRA_1PNPDE20070518_011208_000000432058_00146_27254_0265.N1	18-MAY-2007 01:12:08	Dark	42.500	45	Alp Pav	1.9400	26000.	85	27254	No
12	GOM_TRA_1PNPDE20070518_012019_000000442058_00146_27254_0266.N1	18-MAY-2007 01:20:19	Straylight	44.000	147	Alp Ara	2.8770	26000.	88	27254	No

13	GOM_TRA_1PNPDE20070518_012151_000000462058_00146_27254_0267.N1	18-MAY-2007 01:21:51	Straylight	46.000	40	The Sco	1.8590	7100.0	92	27254	No
14	GOM_TRA_1PNPDE20070518_012343_000000522058_00146_27254_0268.N1	18-MAY-2007 01:23:43	Straylight	52.000	25	35Lam Sco	1.6200	28000.	104	27254	No
15	GOM_TRA_1PNPDE20070518_012600_000000502058_00146_27254_0269.N1	18-MAY-2007 01:26:00	Tw_i_and_stray	50.000	75	26Eps Sco	2.2910	4250.0	100	27254	No
16	GOM_TRA_1PNPDE20070518_012902_000000572058_00146_27254_0270.N1	18-MAY-2007 01:29:02	Tw_i_and_stray	56.500	16	21Alp Sco	1.0200	3000.0	113	27254	No
17	GOM_TRA_1PNPDE20070518_013135_000000452058_00146_27254_0271.N1	18-MAY-2007 01:31:35	Bright	44.500	97	8Bet1Sco	2.5610	30000.	89	27254	No
18	GOM_TRA_1PNPDE20070518_013513_000000392058_00146_27254_0272.N1	18-MAY-2007 01:35:13	Bright	39.000	104	27Bet Lib	2.6140	13100.	78	27254	No
19	GOM_TRA_1PNPDE20070518_013717_000000492058_00146_27254_0273.N1	18-MAY-2007 01:37:17	Bright	48.500	120	1Del Oph	2.7340	3200.0	97	27254	No
20	GOM_TRA_1PNPDE20070518_014025_000000432058_00146_27254_0274.N1	18-MAY-2007 01:40:25	Bright	42.500	102	24Alp Ser	2.6000	4250.0	85	27254	No
21	GOM_TRA_1PNPDE20070518_014603_000000372058_00146_27254_0275.N1	18-MAY-2007 01:46:03	Bright	37.000	83		2.3780	11000.	74	27254	No
22	GOM_TRA_1PNPDE20070518_015746_000000582058_00146_27254_0276.N1	18-MAY-2007 01:57:46	Bright	57.500	119	14Eta Dra	2.7270	4700.0	115	27254	No
23	GOM_TRA_1PNPDE20070518_020842_000000442058_00146_27254_0418.N1	18-MAY-2007 02:08:42	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	27254	No
24	GOM_TRA_1PNPDE20070518_021225_000000422058_00146_27254_0419.N1	18-MAY-2007 02:12:25	Bright	41.500	74	11Bet Cas	2.2680	6600.0	83	27254	No
25	GOM_TRA_1PNPDE20070518_022143_000000452058_00146_27254_0420.N1	18-MAY-2007 02:21:43	Tw_i_and_stray	44.500	58	21Alp And	2.0730	11000.	89	27254	No
26	GOM_TRA_1PNPDE20070518_022556_000000442058_00146_27254_0421.N1	18-MAY-2007 02:25:56	Dark	44.000	140	88Gam Peg	2.8340	26000.	88	27254	No
27	GOM_TRA_1PNPDE20070518_022740_000000482058_00146_27254_0422.N1	18-MAY-2007 02:27:40	Dark	48.000	90	54Alp Peg	2.4870	11000.	96	27254	No
28	GOM_TRA_1PNPDE20070518_024124_000000522058_00146_27254_0423.N1	18-MAY-2007 02:41:24	Dark	52.000	18	24Alp PsA	1.1660	9700.0	104	27254	No
29	GOM_TRA_1PNPDE20070518_024712_000000422058_00147_27255_0424.N1	18-MAY-2007 02:47:12	Dark	42.000	31	Alp Gru	1.7340	15200.	84	27255	No
30	GOM_TRA_1PNPDE20070518_025245_000000412058_00147_27255_0425.N1	18-MAY-2007 02:52:45	Dark	41.000	45	Alp Pav	1.9400	26000.	82	27255	No
31	GOM_TRA_1PNPDE20070518_030055_000000422058_00147_27255_0426.N1	18-MAY-2007 03:00:55	Straylight	42.000	147	Alp Ara	2.8770	26000.	84	27255	No
32	GOM_TRA_1PNPDE20070518_030228_000000502058_00147_27255_0427.N1	18-MAY-2007 03:02:28	Straylight	49.500	40	The Sco	1.8590	7100.0	99	27255	No
33	GOM_TRA_1PNPDE20070518_030420_000000532058_00147_27255_0428.N1	18-MAY-2007 03:04:20	Straylight	53.000	25	35Lam Sco	1.6200	28000.	106	27255	No
34	GOM_TRA_1PNPDE20070518_030636_000000532058_00147_27255_0429.N1	18-MAY-2007 03:06:36	Tw_i_and_stray	52.500	75	26Eps Sco	2.2910	4250.0	105	27255	No
35	GOM_TRA_1PNPDE20070518_030938_000000642058_00147_27255_0430.N1	18-MAY-2007 03:09:38	Tw_i_and_stray	64.000	16	21Alp Sco	1.0200	3000.0	128	27255	No
36	GOM_TRA_1PNPDE20070518_031212_000000432058_00147_27255_0431.N1	18-MAY-2007 03:12:12	Bright	43.000	97	8Bet1Sco	2.5610	30000.	86	27255	No
37	GOM_TRA_1PNPDE20070518_031549_000000392058_00147_27255_0432.N1	18-MAY-2007 03:15:49	Bright	38.500	104	27Bet Lib	2.6140	13100.	77	27255	No
38	GOM_TRA_1PNPDE20070518_031752_000000482058_00147_27255_0433.N1	18-MAY-2007 03:17:52	Bright	48.000	120	1Del Oph	2.7340	3200.0	96	27255	No
39	GOM_TRA_1PNPDE20070518_032101_000000432058_00147_27255_0434.N1	18-MAY-2007 03:21:01	Bright	42.500	102	24Alp Ser	2.6000	4250.0	85	27255	No
40	GOM_TRA_1PNPDE20070518_032639_000000382058_00147_27255_0435.N1	18-MAY-2007 03:26:39	Bright	38.000	83		2.3780	11000.	76	27255	No
41	GOM_TRA_1PNPDE20070518_033821_000000402058_00147_27255_0436.N1	18-MAY-2007 03:38:21	Bright	40.000	119	14Eta Dra	2.7270	4700.0	80	27255	No
42	GOM_TRA_1PNPDE20070518_034918_000000662058_00147_27255_0621.N1	18-MAY-2007 03:49:18	Bright	66.000	89	5Alp Cep	2.4510	8000.0	132	27255	No
43	GOM_TRA_1PNPDE20070518_035301_000000552058_00147_27255_0622.N1	18-MAY-2007 03:53:01	Bright	55.000	74	11Bet Cas	2.2680	6600.0	110	27255	No
44	GOM_TRA_1PNPDE20070518_040219_000000452058_00147_27255_0623.N1	18-MAY-2007 04:02:19	Tw_i_and_stray	45.000	58	21Alp And	2.0730	11000.	90	27255	No
45	GOM_TRA_1PNPDE20070518_040632_000000442058_00147_27255_0624.N1	18-MAY-2007 04:06:32	Dark	44.000	140	88Gam Peg	2.8340	26000.	88	27255	No
46	GOM_TRA_1PNPDE20070518_040816_000000482058_00147_27255_0625.N1	18-MAY-2007 04:08:16	Dark	48.000	90	54Alp Peg	2.4870	11000.	96	27255	No
47	GOM_TRA_1PNPDE20070518_042201_000000592058_00147_27255_0626.N1	18-MAY-2007 04:22:01	Dark	58.500	18	24Alp PsA	1.1660	9700.0	117	27255	No
48	GOM_TRA_1PNPDE20070518_042749_000000442058_00148_27256_0627.N1	18-MAY-2007 04:27:49	Dark	43.500	31	Alp Gru	1.7340	15200.	87	27256	No
49	GOM_TRA_1PNPDE20070518_043321_000000422058_00148_27256_0628.N1	18-MAY-2007 04:33:21	Dark	42.000	45	Alp Pav	1.9400	26000.	84	27256	No
50	GOM_TRA_1PNPDE20070518_044132_000000432058_00148_27256_0629.N1	18-MAY-2007 04:41:32	Straylight	43.000	147	Alp Ara	2.8770	26000.	86	27256	No

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



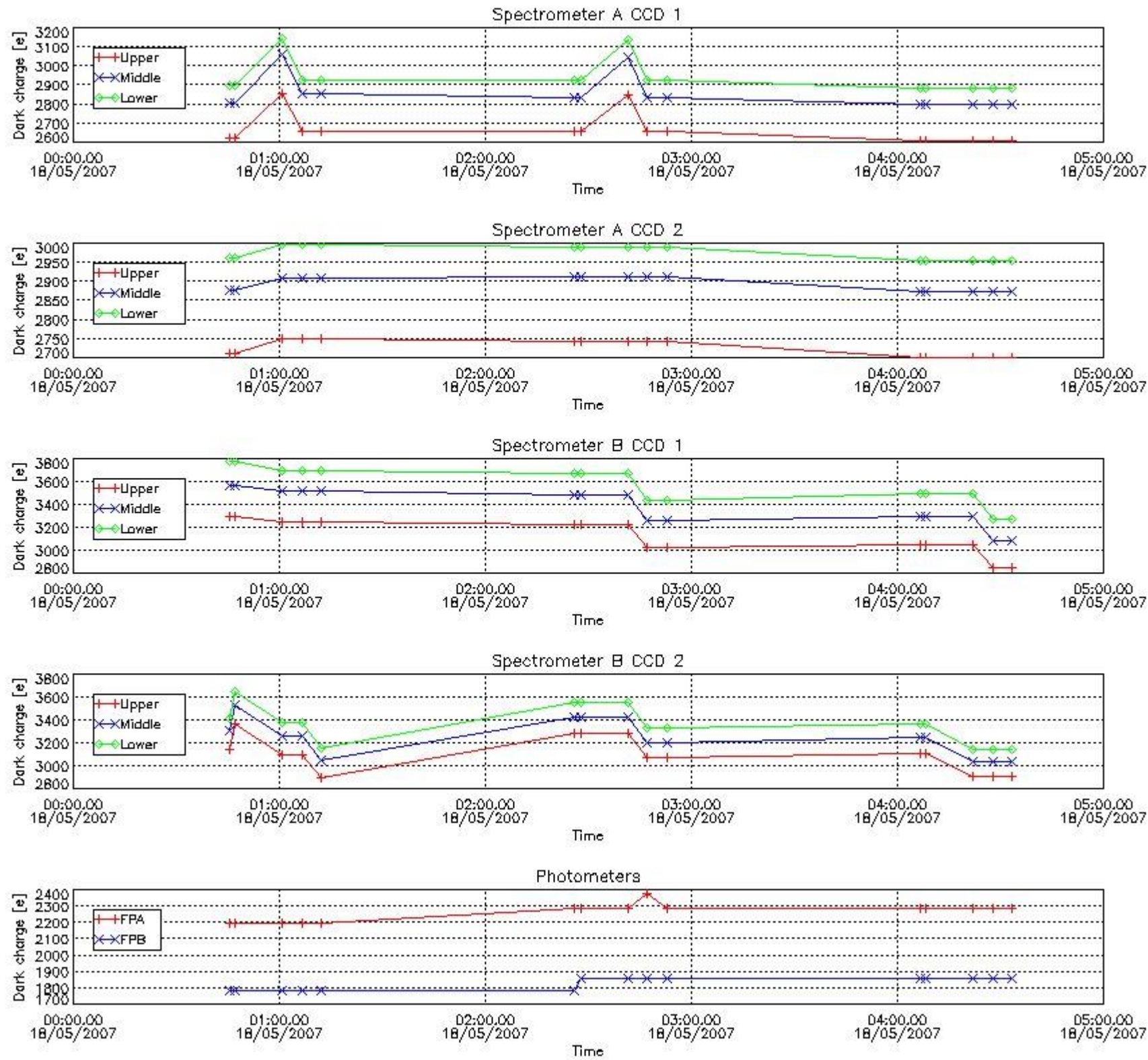
4. Overview of dark signal processing per product

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



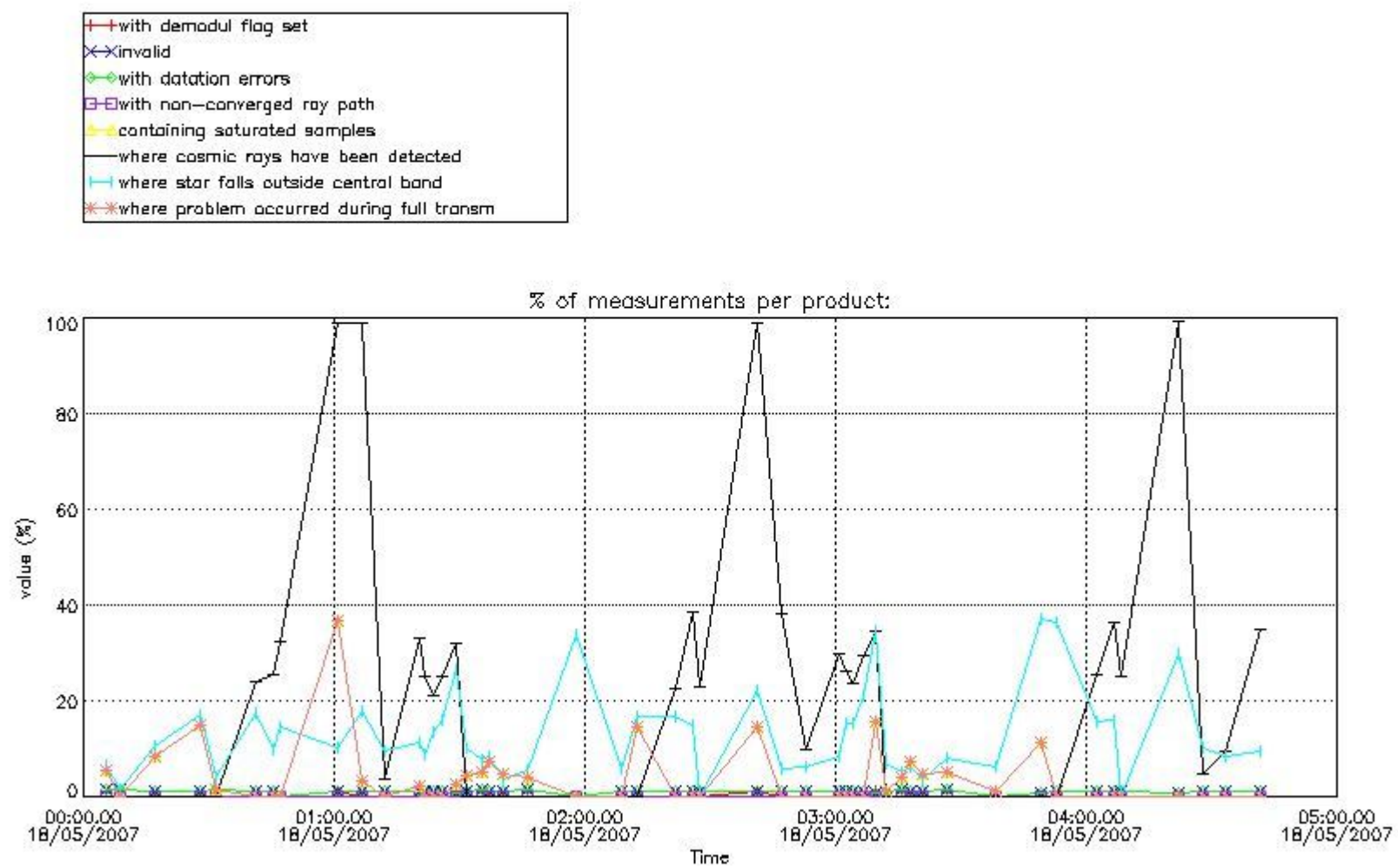
5. Demodulation flag and quality information monitoring

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.

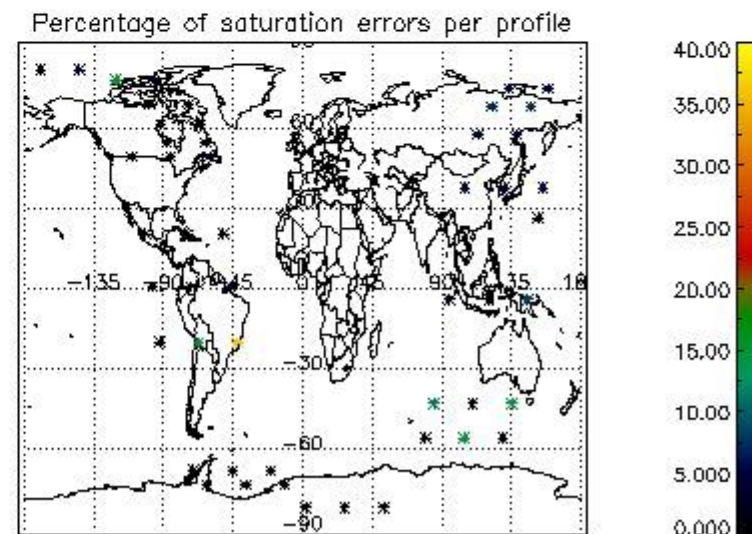
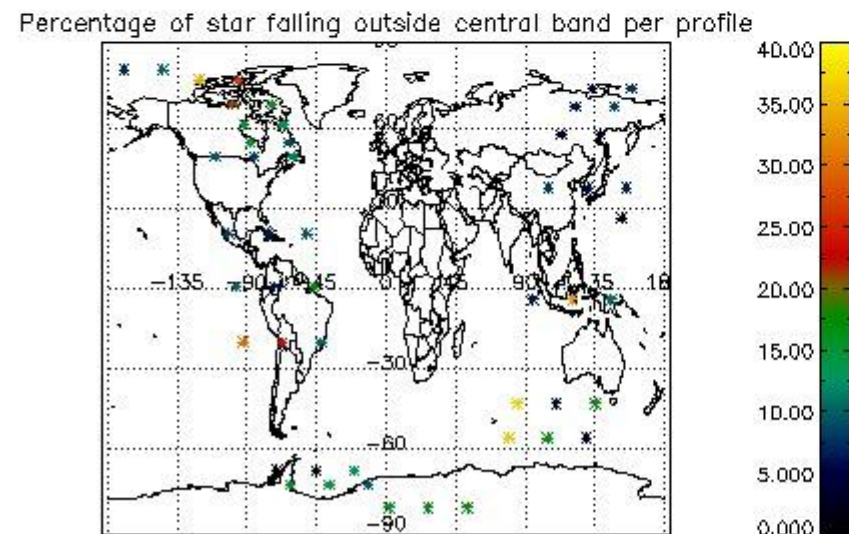
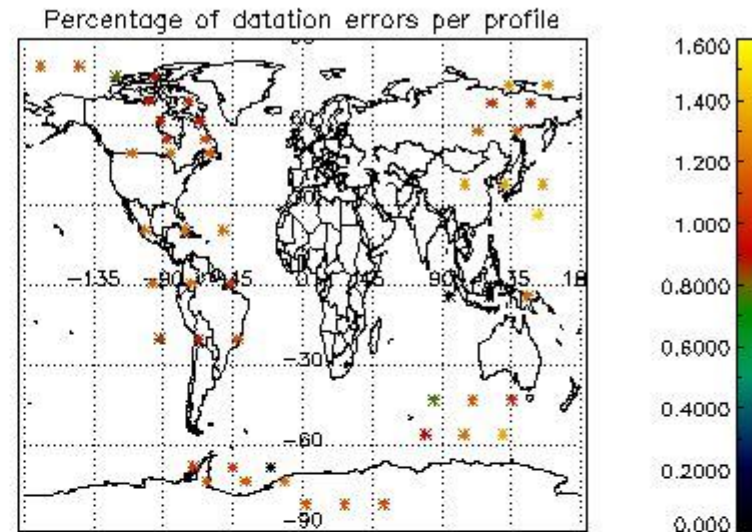
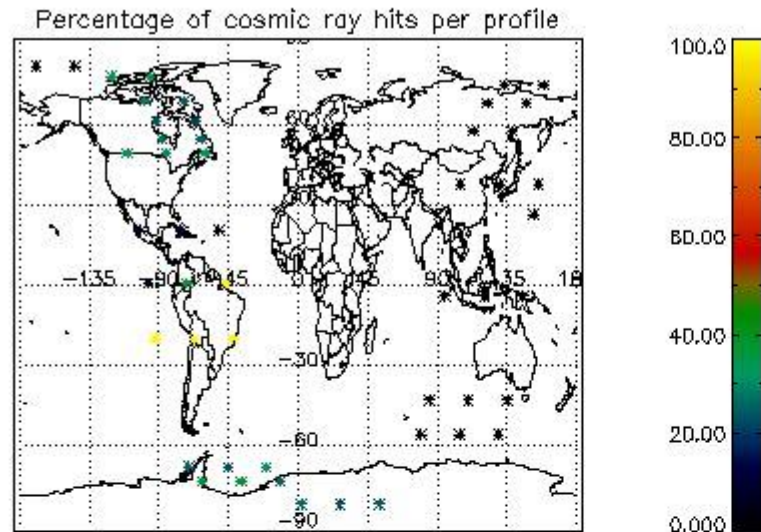
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	32.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



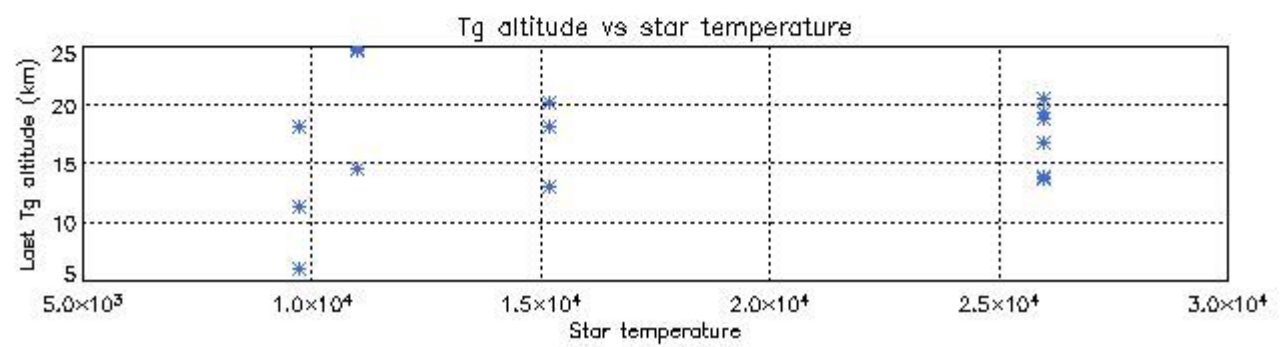
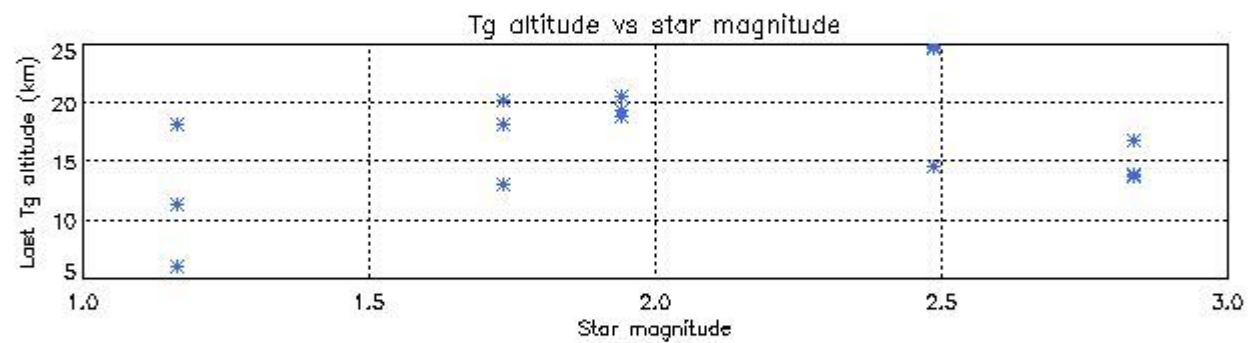
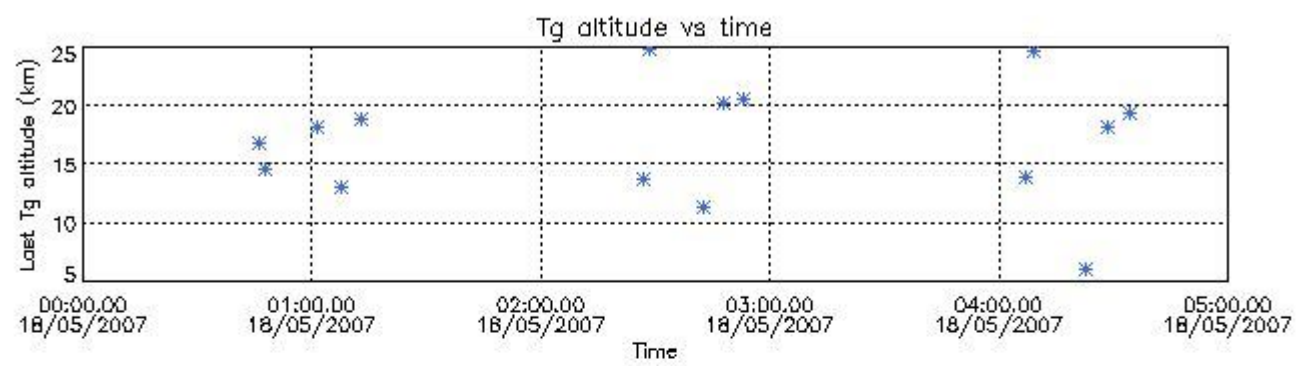
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.952	18.001	NaN
St. deviation:	5.0088	6.4334	NaN
Maximum:	24.780	26.421	NaN
Minimum:	5.9458	3.2972	NaN
Number of data:	15.000	21.000	NaN

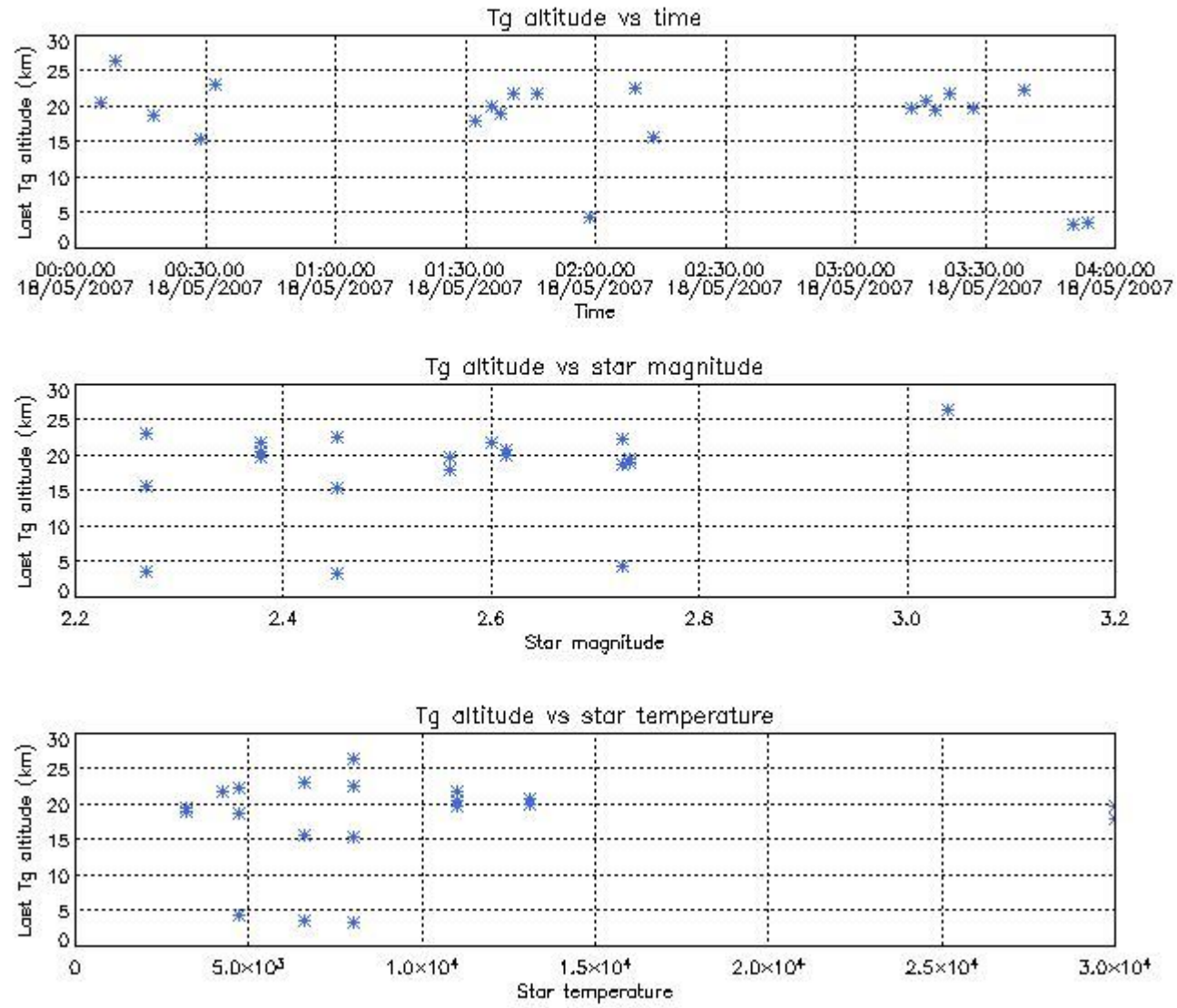
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

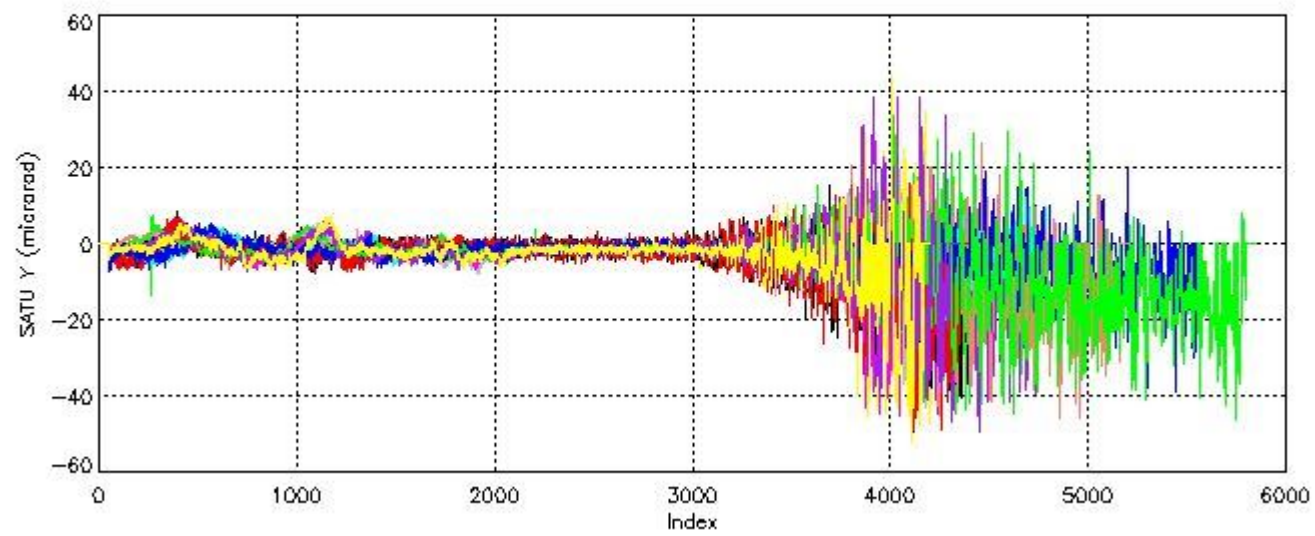
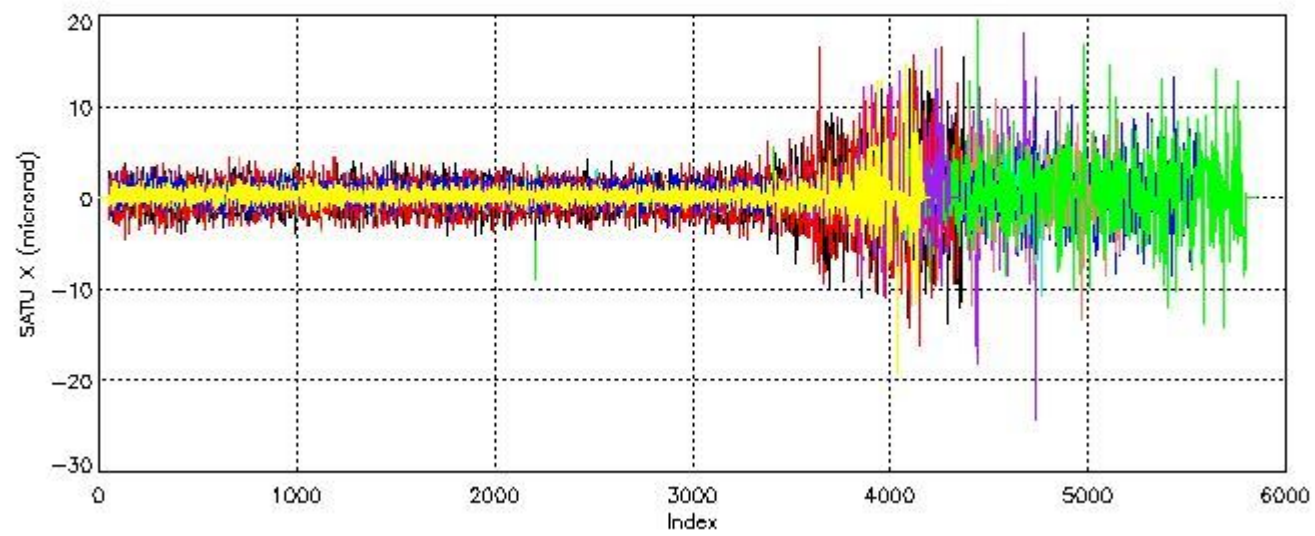


7. Star Acquisition and Tracking Unit (SATU)

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:	0.22447	-1.0101	0.29184	-0.98135
St. deviation:	0.70523	2.3404	0.80892	2.5771
Maximum:	4.5000	8.6000	5.2000	8.4000
Minimum:	-4.5000	-13.500	-5.2000	-10.900

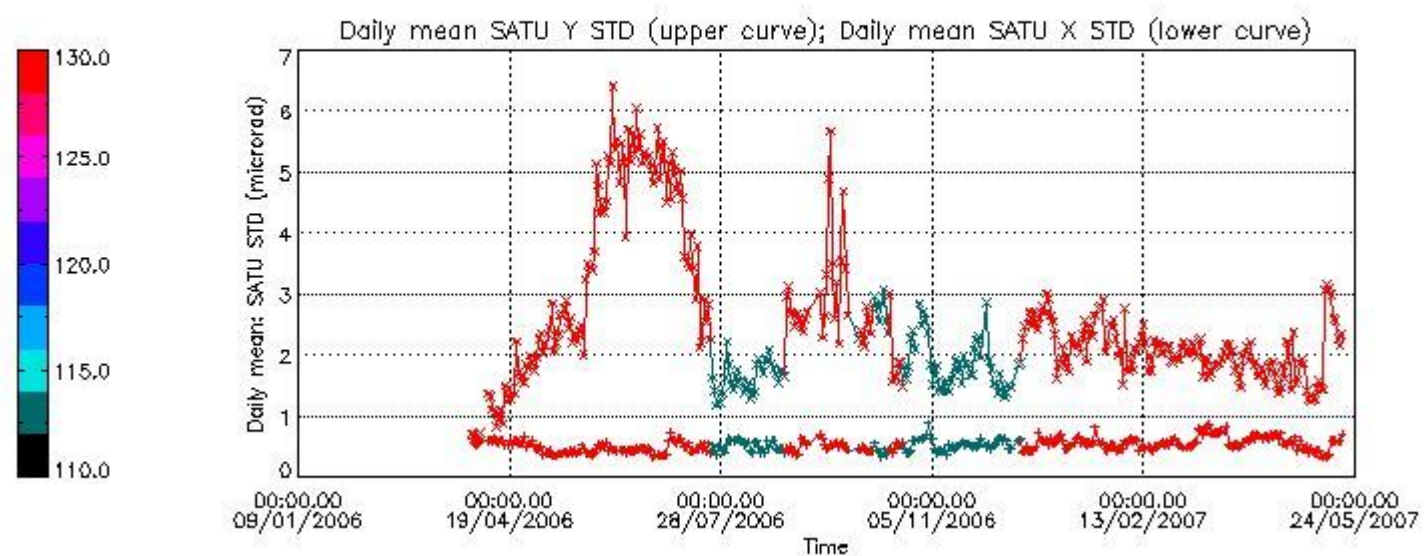
Number of data:	15750.	15750.	19850.	19850.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

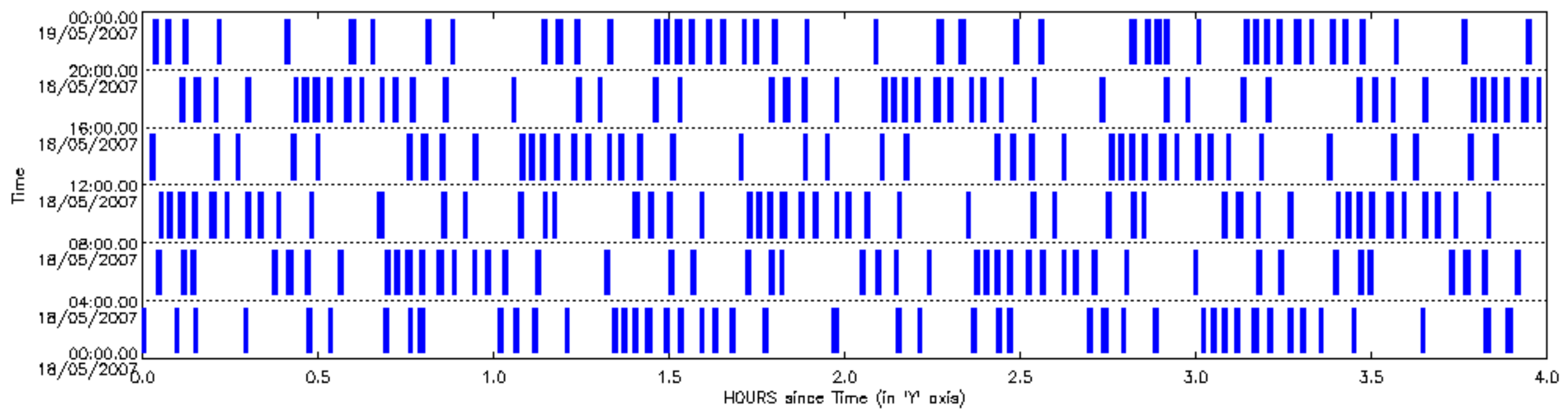
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

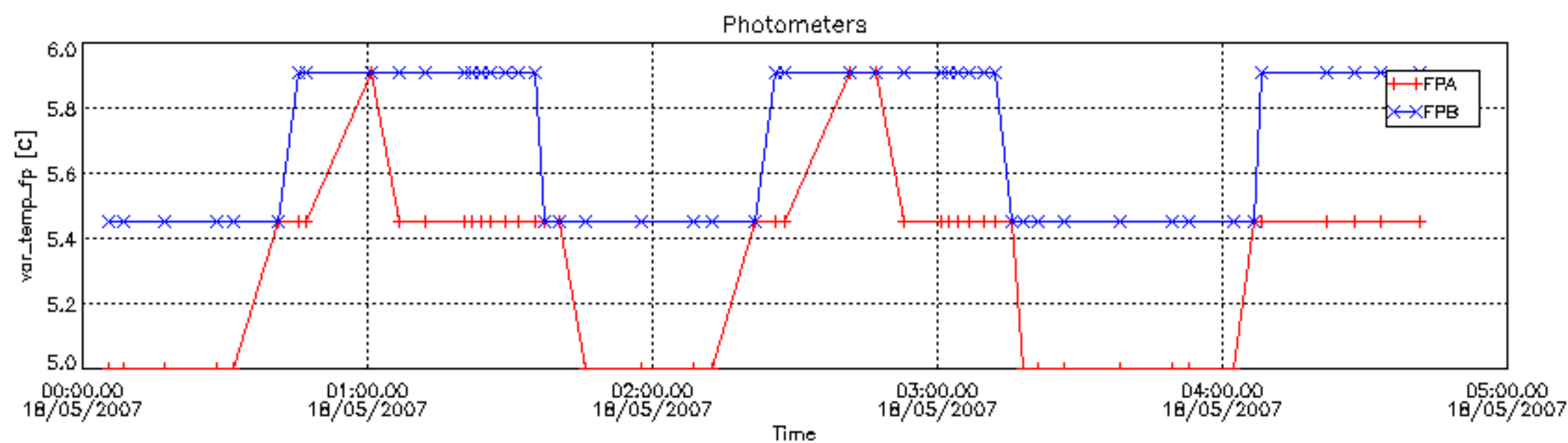
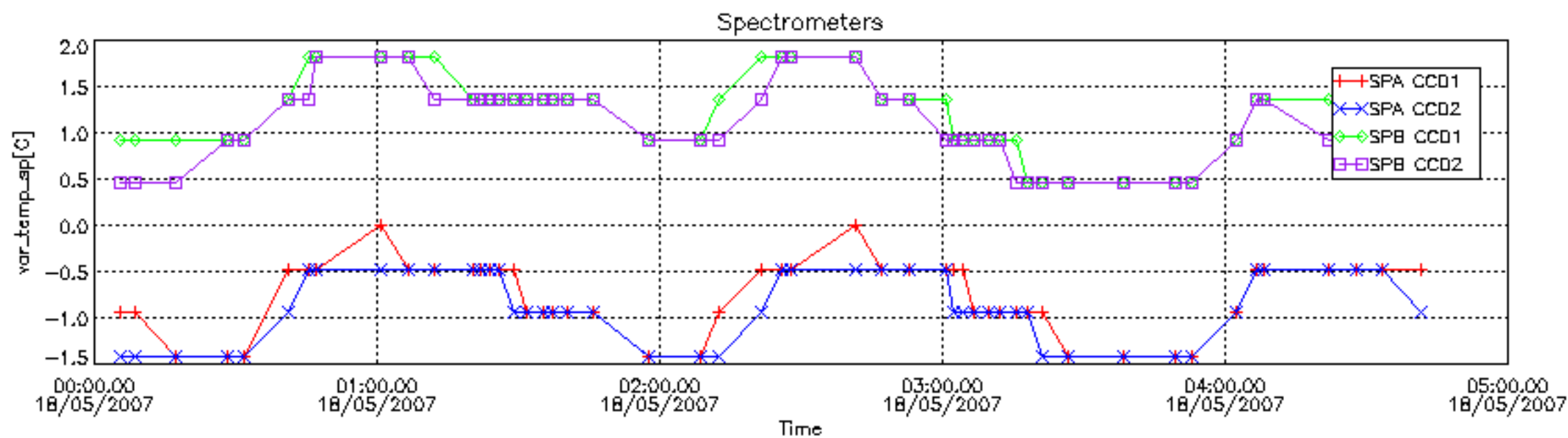


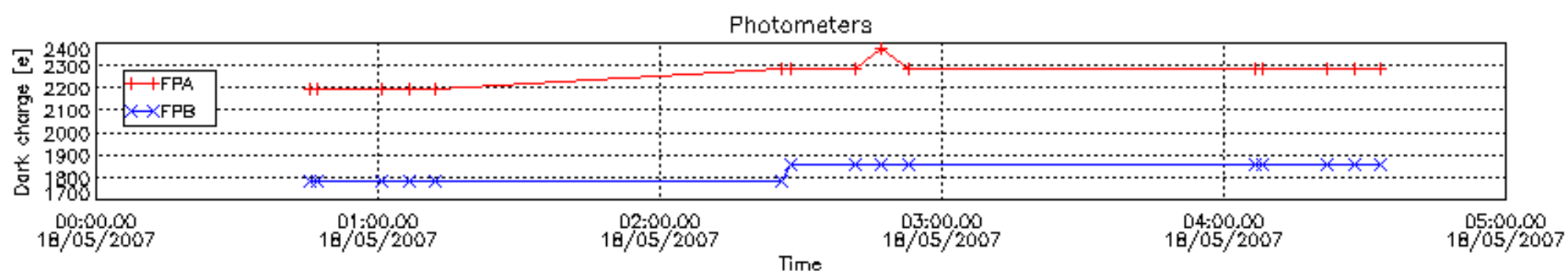
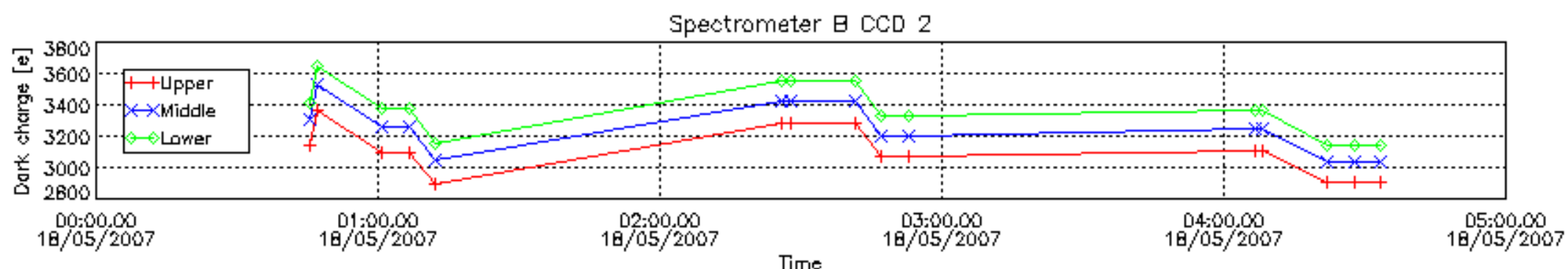
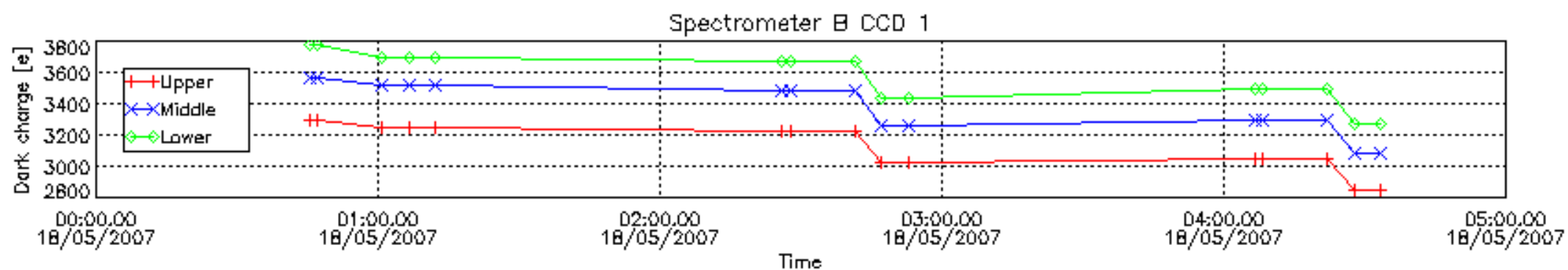
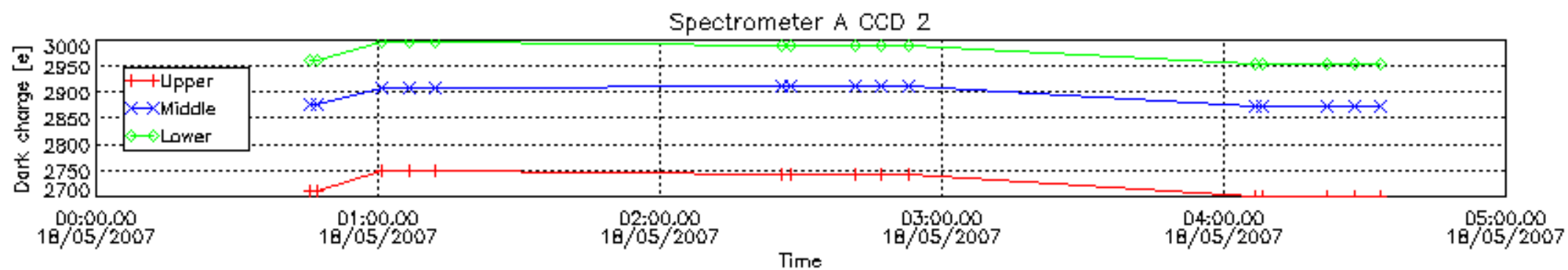
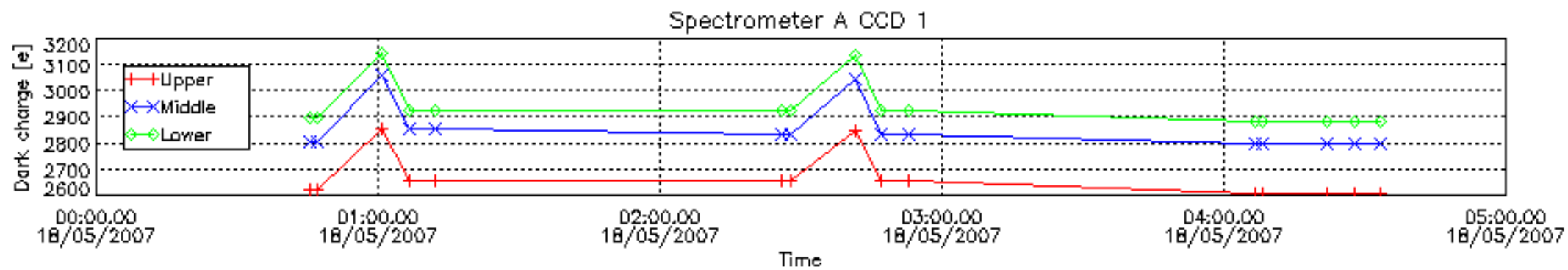
8. Auxiliary Data Files used for the production reported in section 2.4

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

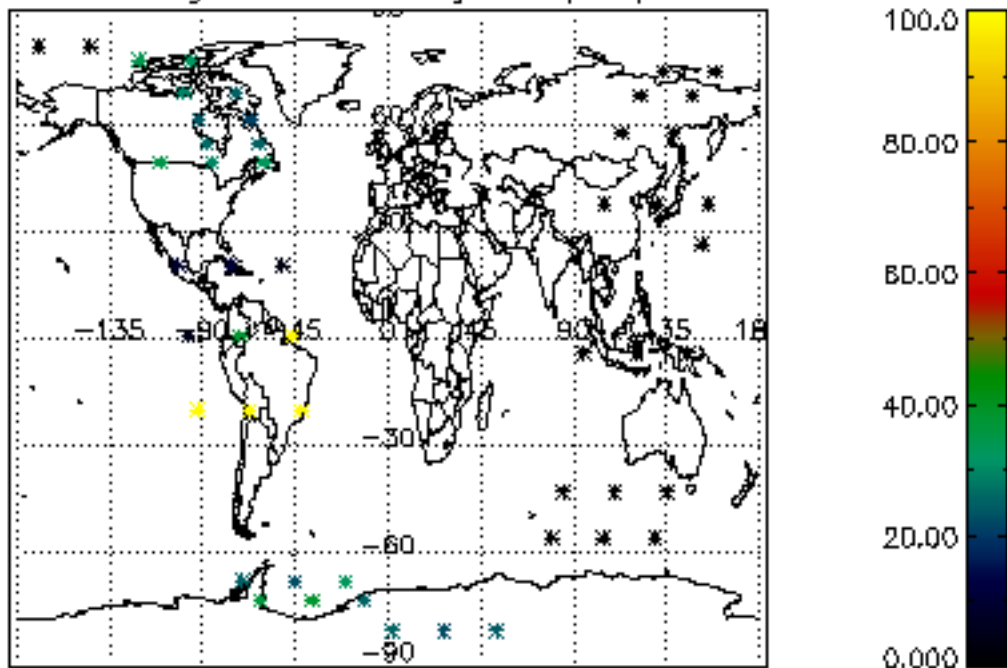
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	18-MAY-2007 00:05:28
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070503_074756_20070502_000000_20100101_000000	1	18-MAY-2007 00:05:28
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	18-MAY-2007 00:05:28
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	18-MAY-2007 00:05:28
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	18-MAY-2007 00:05:28
ECMWF_FILE	AUX_ECF_AXNECM20070517_062111_20070517_210000_20070518_090000	1	18-MAY-2007 00:05:28
ECMWF_FILE	AUX_ECF_AXNECM20070517_182113_20070518_030000_20070518_150000	42	18-MAY-2007 03:49:18
OPTIONAL_ECMWF_FILE	MISSING	1	18-MAY-2007 00:05:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070517_212846_000057382058_00143_27251_3502.N1	1	18-MAY-2007 00:05:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070517_230943_000057382058_00144_27252_3503.N1	9	18-MAY-2007 01:00:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070518_005040_000041442058_00145_27253_3504.N1	23	18-MAY-2007 02:08:42
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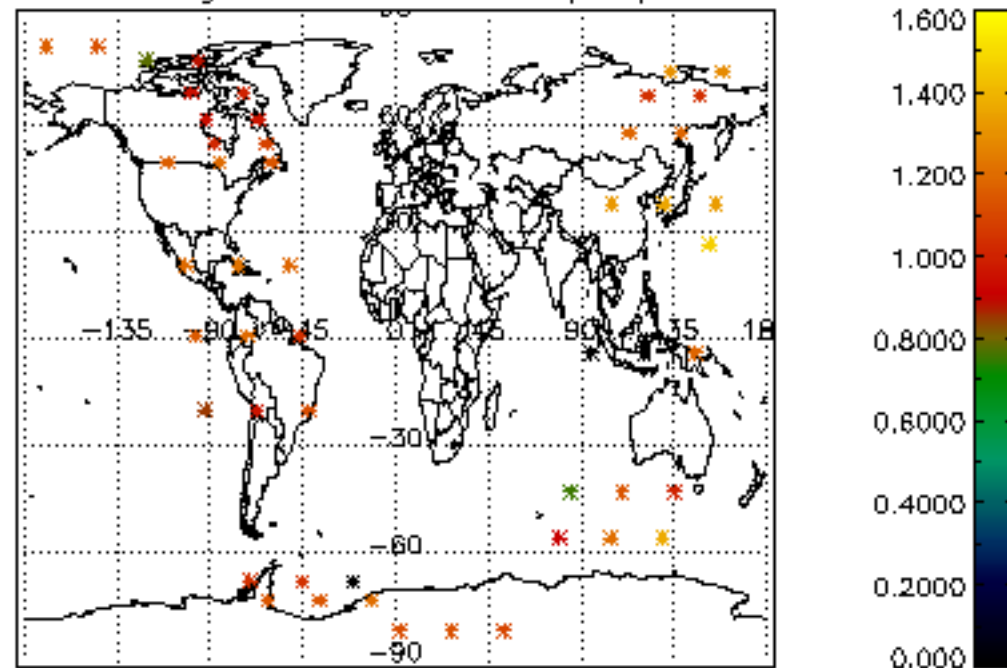




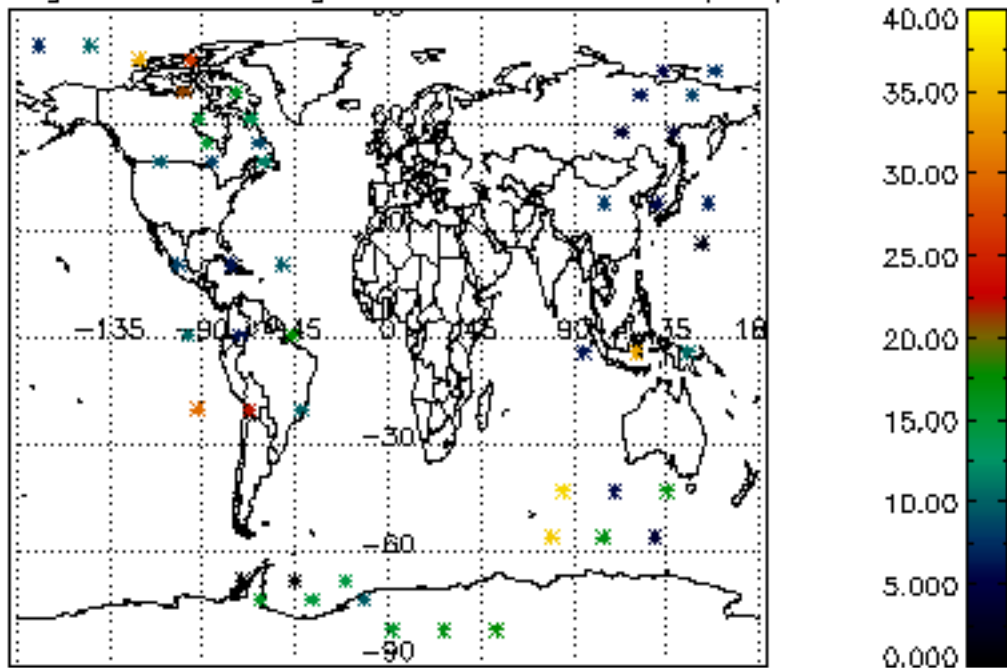
Percentage of cosmic ray hits per profile



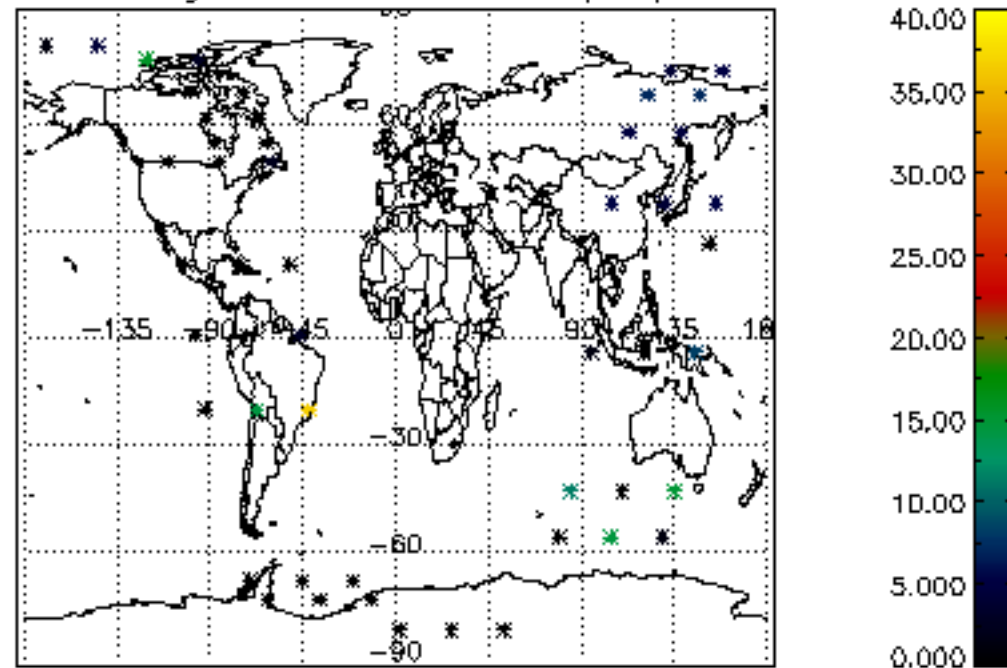
Percentage of datation errors per profile



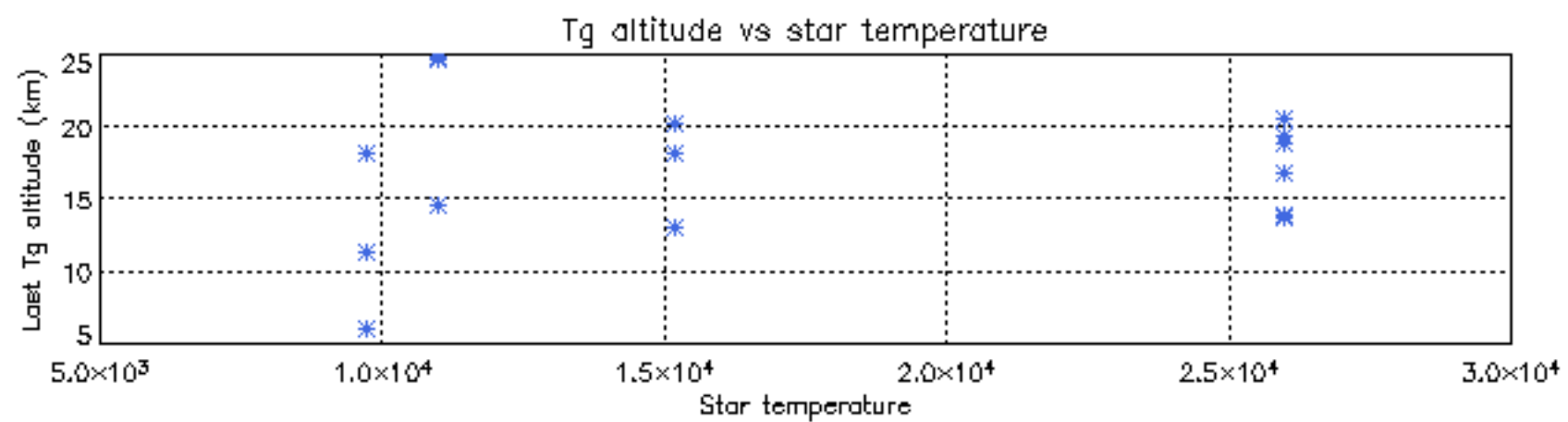
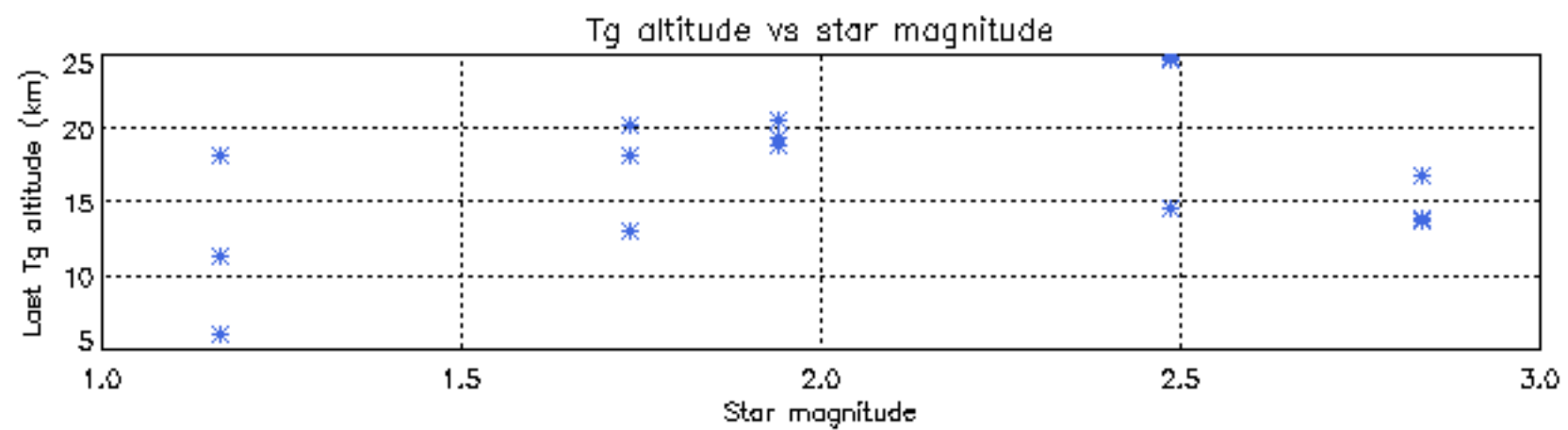
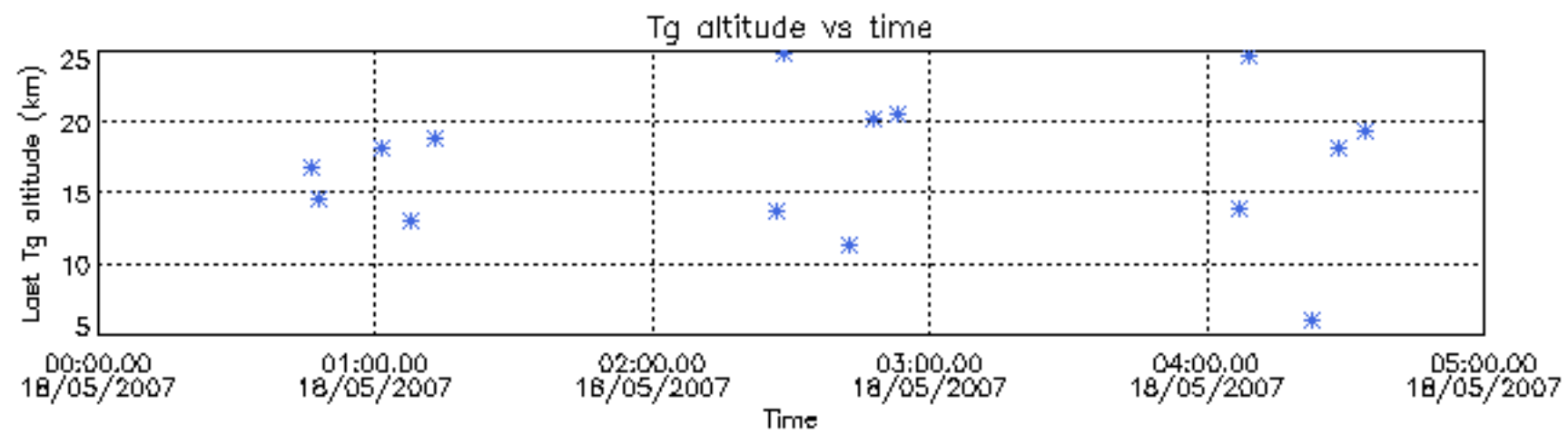
Percentage of star falling outside central band per profile



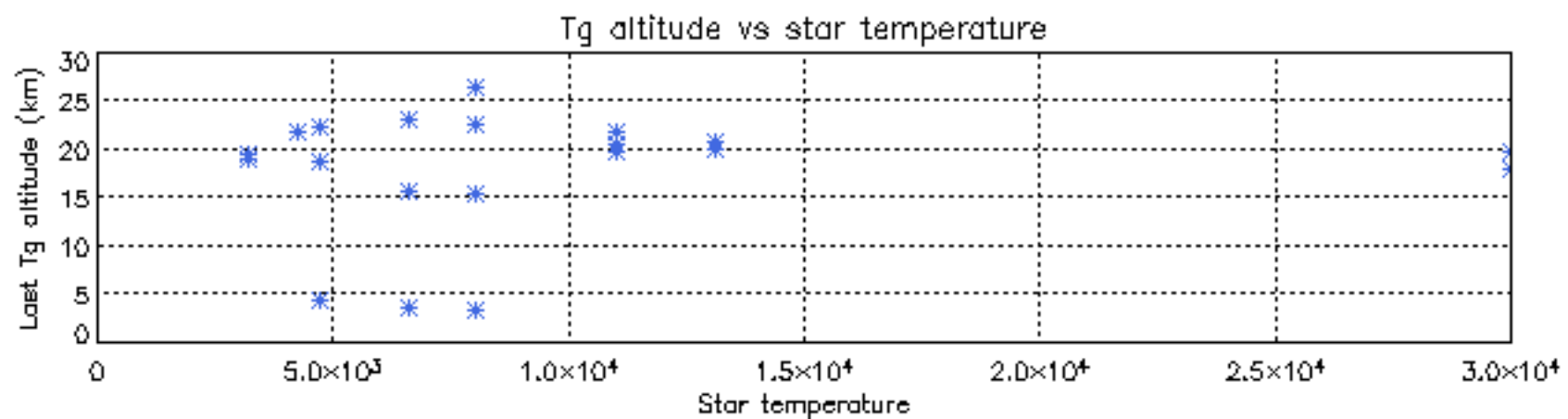
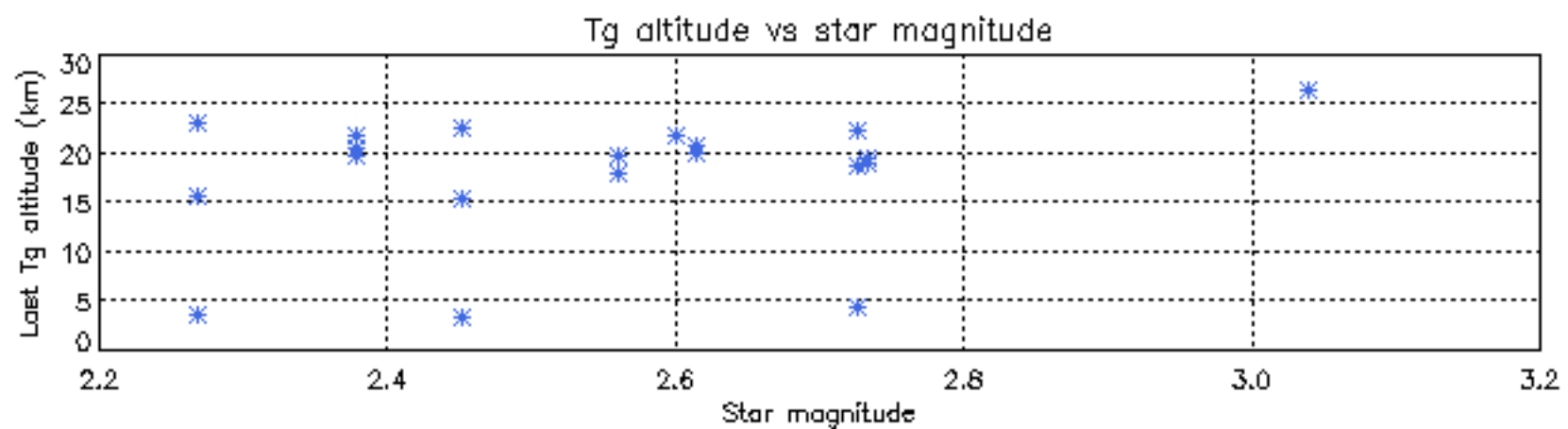
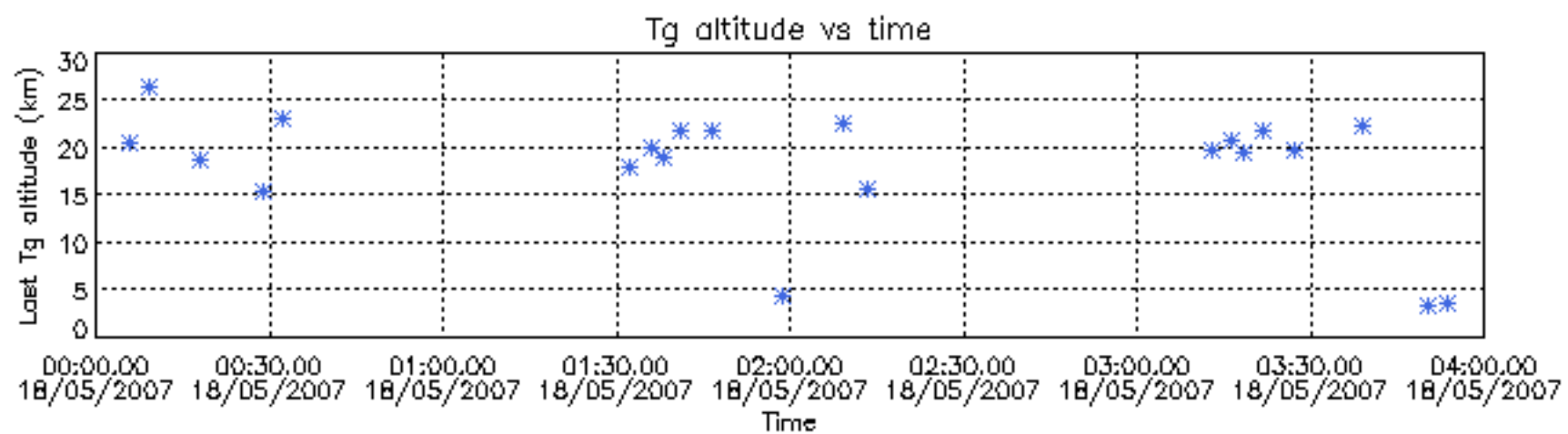
Percentage of saturation errors per profile

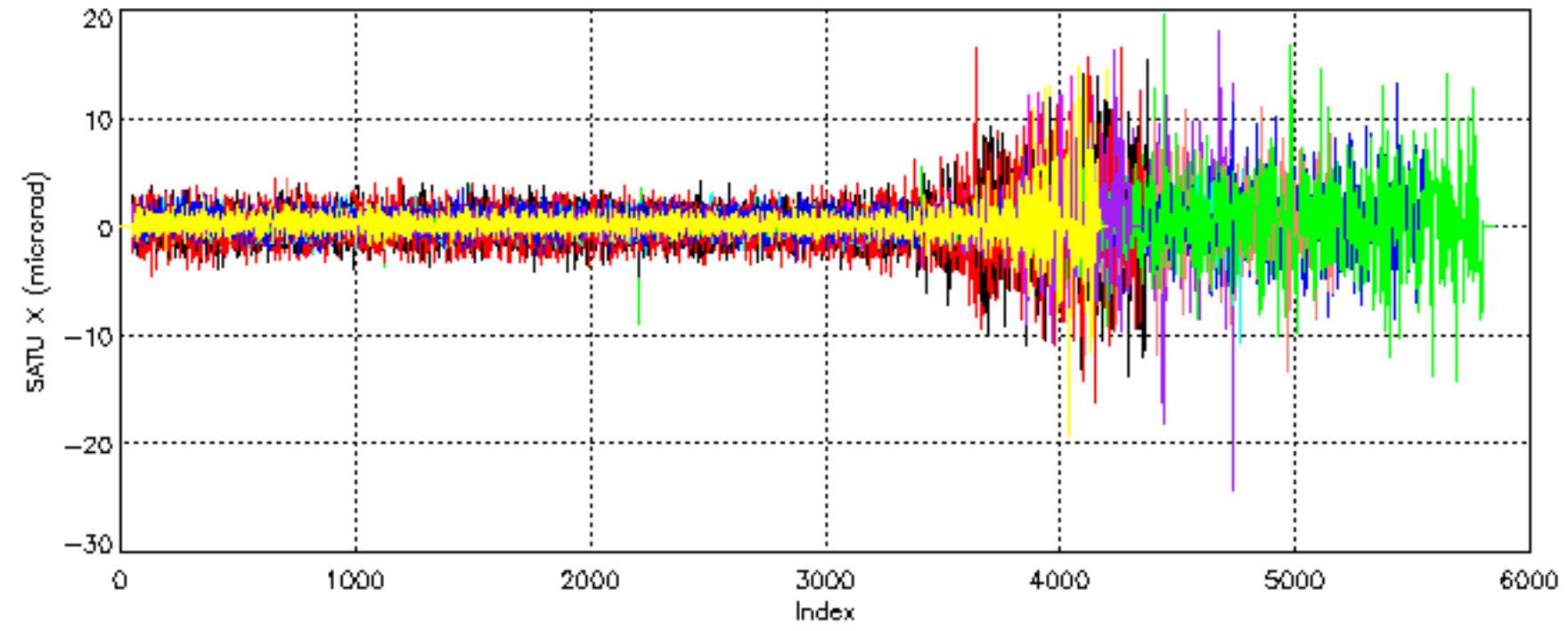


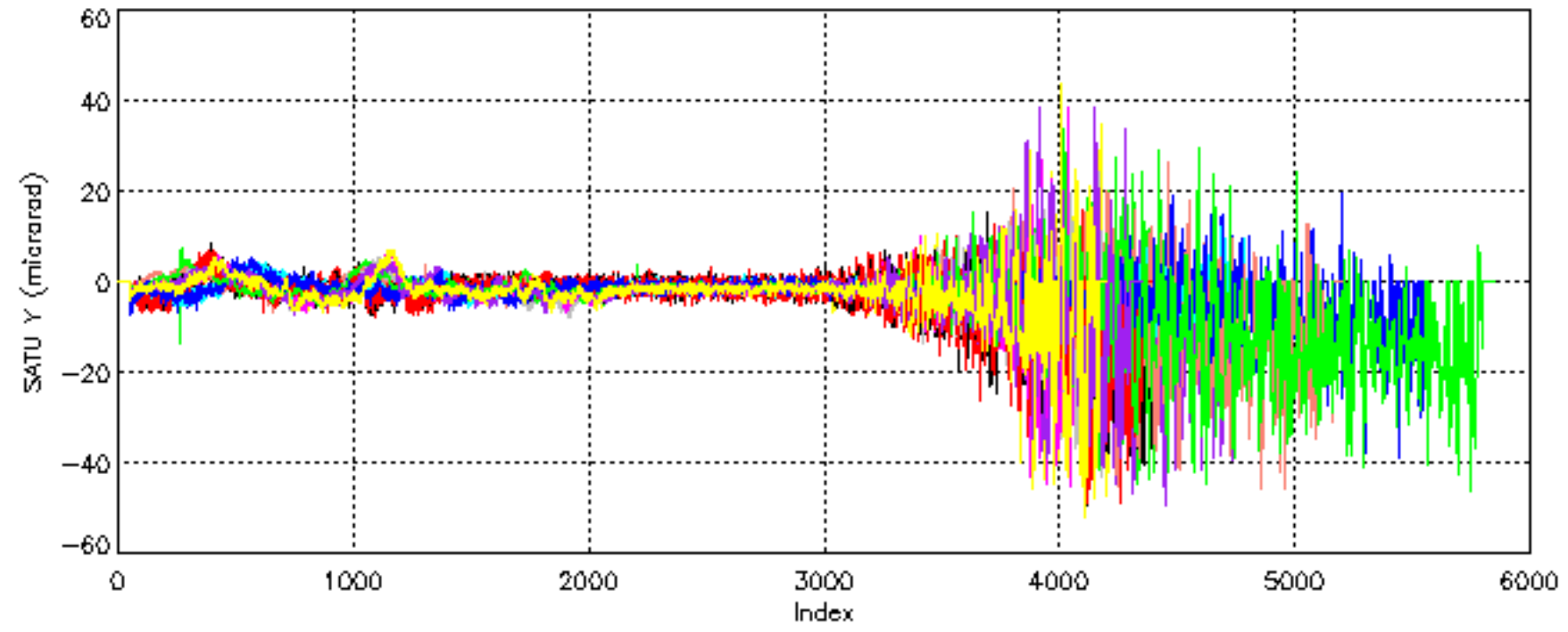
Tangent altitude at which the star is lost

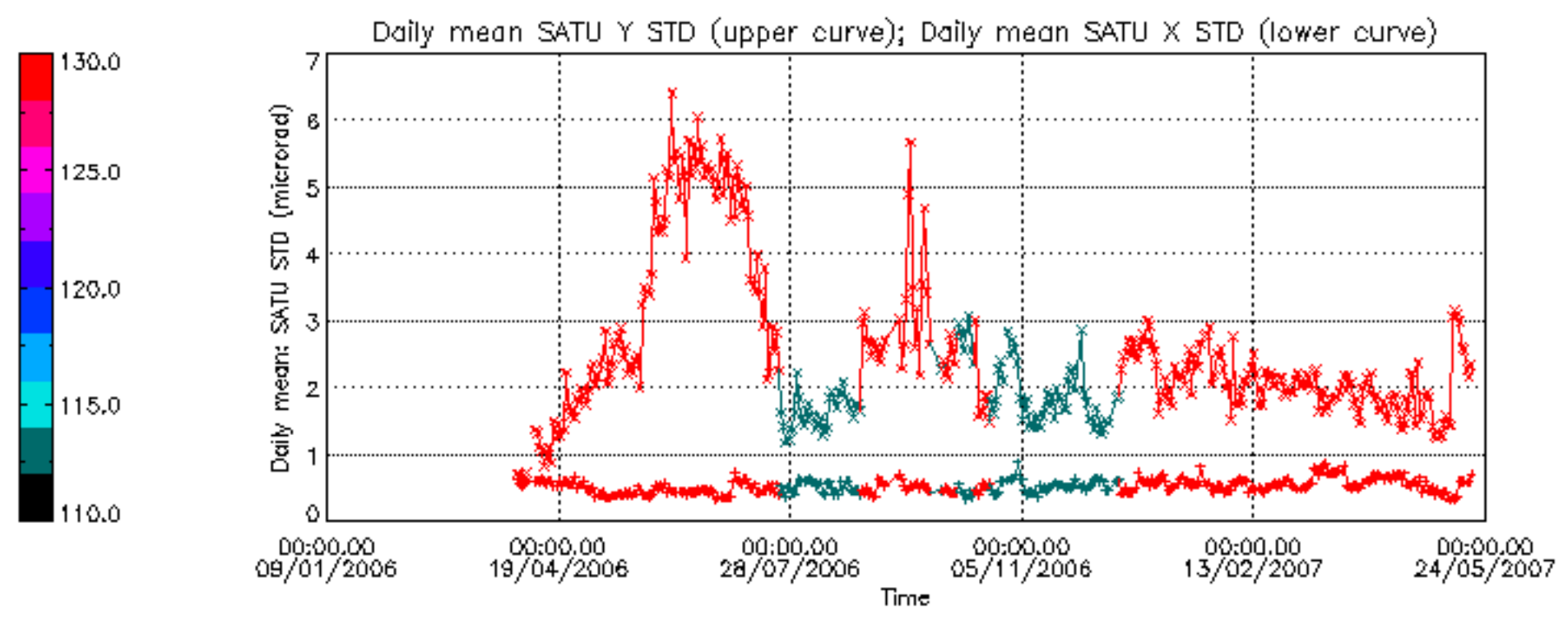


Tangent altitude at which the star is lost









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 5; 575.4; 01-MAY-2007 01:50:28; Dark ; 42.0; 43; Alp TrA ; 1.91; 4250;occ; 84; 0;27011
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 7; 831.2; 01-MAY-2007 01:54:44; Dark ; 43.5; 4; Alp1Cen ;-0.01; 5800;occ; 87; 0;27011
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 7; 178.5; 01-MAY-2007 03:24:27; Dark ; 32.0; 45; Alp Pav ; 1.94; 26000;occ; 64; 0;27012
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17; 3004.9; 03-MAY-2007 23:15:31; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;27052
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4; 23.1; 04-MAY-2007 00:06:25; Dark ; 38.0; 148; Alp Tuc ; 2.88; 4100;occ; 76; 0;27053
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6; 722.1; 04-MAY-2007 00:18:04; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;27053
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 13; 1902.8; 04-MAY-2007 00:37:45; Bright; 36.0; 121; 29Gam Vir ; 2.74; 7200;occ; 72; 0;27053
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 18; 3005.1; 04-MAY-2007 00:56:07; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;27053
 19; 3444.9; 04-MAY-2007 01:03:27; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27053
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 6; 19.4; 03-MAY-2007 07:20:22; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;27043
 7; 586.9; 03-MAY-2007 07:29:50; Dark ; 48.0; 43; Alp TrA ; 1.91; 4250;occ; 96; 0;27043
 8; 718.9; 03-MAY-2007 07:32:02; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;27043
 9; 839.8; 03-MAY-2007 07:34:03; Dark ; 50.0; 4; Alp1Cen ; -0.01; 5800;occ; 100; 0;27043
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 12; 1262.4; 03-MAY-2007 07:41:05; Dark ; 42.5; 54; 5The Cen ; 2.06; 4500;occ; 85; 0;27043
 13; 1517.5; 03-MAY-2007 07:45:20; Bright; 37.0; 169; 46Gam Hya ; 2.99; 4700;occ; 74; 0;27043

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 7; 586.9; 03-MAY-2007 07:29:50; Dark ; 48.0; 43; Alp TrA ; 1.91; 4250;occ; 96; 0;27043
 8; 718.9; 03-MAY-2007 07:32:02; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;27043
 9; 839.8; 03-MAY-2007 07:34:03; Dark ; 50.0; 4; Alp1Cen ; -0.01; 5800;occ; 100; 0;27043
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 11; 1138.5; 03-MAY-2007 07:39:02; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;27043
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 5; 2837.4; 03-MAY-2007 08:07:20; Bright; 35.0; 87; 64Gam UMa ; 2.43; 11000;occ; 70; 0;27043
 6; 2925.1; 03-MAY-2007 08:08:48; Bright; 37.0; 82; 48Bet UMa ; 2.37; 10600;occ; 74; 0;27043
 7; 3002.6; 03-MAY-2007 08:10:06; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;27043
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 9; 3922.2; 03-MAY-2007 08:25:25; Bright; 34.0; 110; 37Del Cas ; 2.68; 8900;occ; 68; 0;27043
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 11; 5556.4; 03-MAY-2007 08:52:39; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;27043
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5; 2837.6; 03-MAY-2007 09:47:57; Bright; 42.0; 87; 64Gam UMa ; 2.43; 11000;occ; 84; 0;27044
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7; 3002.8; 03-MAY-2007 09:50:42; Bright; 34.5; 36; 50Alp UMa ; 1.80; 6300;occ; 69; 0;27044
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16; 6755.3; 03-MAY-2007 10:53:14; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;27044
17; 6876.1; 03-MAY-2007 10:55:15; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;27044
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3; 2098.0; 03-MAY-2007 11:16:13; Bright; 36.5; 138; 47Eps Vir ; 2.83; 4700;occ; 73; 0;27045
4; 2559.8; 03-MAY-2007 11:23:55; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;27045
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7; 3003.0; 03-MAY-2007 11:31:18; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;27045
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4; 3445.1; 03-MAY-2007 14:59:52; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;27047
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6; 4003.3; 03-MAY-2007 15:09:10; Bright; 52.0; 68; 18Alp Cas ; 2.22; 4500;occ; 104; 0;27047
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6; 24.8; 04-MAY-2007 06:48:51; Dark ; 37.5; 148; Alp Tuc ; 2.88; 4100;occ; 75; 0;27057
7; 591.8; 04-MAY-2007 06:58:18; Dark ; 38.5; 43; Alp TrA ; 1.91; 4250;occ; 77; 0;27057
8; 723.7; 04-MAY-2007 07:00:30; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;27057
9; 843.3; 04-MAY-2007 07:02:29; Dark ; 51.0; 4; Alp1Cen ;-0.01; 5800;occ; 102; 0;27057
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13; 1519.7; 04-MAY-2007 07:13:46; Bright; 36.5; 169; 46Gam Hya ; 2.99; 4700;occ; 73; 0;27057
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6; 2929.5; 04-MAY-2007 07:37:16; Bright; 34.0; 82; 48Bet UMa ; 2.37; 10600;occ; 68; 0;27057
7; 3006.2; 04-MAY-2007 07:38:32; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;27057
8; 3445.1; 04-MAY-2007 07:45:51; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27057
9; 3924.0; 04-MAY-2007 07:53:50; Bright; 34.0; 110; 37Del Cas ; 2.68; 8900;occ; 68; 0;27057
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21; 7555.8; 04-MAY-2007 08:54:22; Bright; 37.0; 169; 46Gam Hya ; 2.99; 4700;occ; 74; 0;27057
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3; 2929.5; 04-MAY-2007 07:37:16; Bright; 34.0; 82; 48Bet UMa ; 2.37; 10600;occ; 68; 0;27057
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6; 2934.8; 05-MAY-2007 12:07:32; Bright; 36.5; 82; 48Bet UMa ; 2.37; 10600;occ; 73; 0;27074
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15; 6067.6; 05-MAY-2007 12:59:44; Dark ; 44.0; 148; Alp Tuc ; 2.88; 4100;occ; 88; 0;27074
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6; 2840.4; 10-MAY-2007 11:08:28; Bright; 37.0; 55; 79Zet UMa ; 2.06; 10200;occ; 74; 0;27145
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6; 624.1; 11-MAY-2007 01:36:55; Dark ; 39.5; 43; Alp TrA ; 1.91; 4250;occ; 79; 0;27154

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4; 2568.6; 11-MAY-2007 07:11:08; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;27157
5; 2749.0; 11-MAY-2007 07:14:08; Bright; 33.5; 39; 85Eta UMA ; 1.85; 24000;occ; 67; 0;27157
6; 2840.4; 11-MAY-2007 07:15:40; Bright; 34.5; 55; 79Zet UMa ; 2.06; 10200;occ; 69; 0;27157
7; 3035.6; 11-MAY-2007 07:18:55; Bright; 36.0; 36; 50Alp UMA ; 1.80; 6300;occ; 72; 0;27157
8; 3445.7; 11-MAY-2007 07:25:45; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;27157
9; 3935.6; 11-MAY-2007 07:33:55; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;27157
10; 4010.1; 11-MAY-2007 07:35:09; Bright; 45.5; 68; 18Alp Cas ; 2.22; 4500;occ; 91; 0;27157
11; 4743.9; 11-MAY-2007 07:47:23; Dark ; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;27157
12; 5267.7; 11-MAY-2007 07:56:07; Dark ; 44.5; 52; 16Bet Cet ; 2.04; 4500;occ; 89; 0;27157
13; 5677.1; 11-MAY-2007 08:02:56; Dark ; 40.0; 84; Alp Phe ; 2.40; 4500;occ; 80; 0;27157
14; 5768.3; 11-MAY-2007 08:04:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27157

```

15; 5896.8; 11-MAY-2007 08:06:36; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;27157
 16; 6102.2; 11-MAY-2007 08:10:01; Dark ; 38.0; 148; Alp Tuc ; 2.88; 4100;occ; 76; 0;27157
 17; 6661.4; 11-MAY-2007 08:19:21; Dark ; 39.0; 43; Alp TrA ; 1.91; 4250;occ; 78; 0;27157
 18; 6792.9; 11-MAY-2007 08:21:32; Dark ; 39.0; 134; Bet TrA ; 2.81; 6600;occ; 78; 0;27157
 19; 6902.4; 11-MAY-2007 08:23:21; Dark ; 43.5; 4; Alp1Cen ;-0.01; 5800;occ; 87; 0;27157
 20; 7114.0; 11-MAY-2007 08:26:53; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;27157
 21; 7205.0; 11-MAY-2007 08:28:24; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;27157
 22; 7323.2; 11-MAY-2007 08:30:22; Dark ; 41.5; 54; 5The Cen ; 2.06; 4500;occ; 83; 0;27157
 23; 7573.0; 11-MAY-2007 08:34:32; Bright; 36.5; 169; 46Gam Hya ; 2.99; 4700;occ; 73; 0;27157
 24; 7768.6; 11-MAY-2007 08:37:48; Bright; 49.0; 15; 67Alp Vir ; 0.98; 28000;occ; 98; 0;27157

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20070511_101824_000058762058_00051_27159_7765.N1

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 3; 2221.2; 11-MAY-2007 10:26:32; Bright; 36.5; 111; 8Eta Boo ; 2.68; 6000;occ; 73; 0;27159
 4; 2568.7; 11-MAY-2007 10:32:20; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;27159
 5; 2748.6; 11-MAY-2007 10:35:20; Bright; 37.5; 39; 85Eta UMa ; 1.85; 24000;occ; 75; 0;27159
 6; 2840.3; 11-MAY-2007 10:36:51; Bright; 36.5; 55; 79Zet UMa ; 2.06; 10200;occ; 73; 0;27159
 7; 3036.1; 11-MAY-2007 10:40:07; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;27159
 8; 3445.6; 11-MAY-2007 10:46:57; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;27159
 9; 3935.6; 11-MAY-2007 10:55:07; Bright; 45.0; 76; 27Gam Cas ; 2.30; 30000;occ; 90; 0;27159
 10; 4010.2; 11-MAY-2007 10:56:21; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;27159
 11; 4744.9; 11-MAY-2007 11:08:36; Dark ; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;27159
 12; 5268.0; 11-MAY-2007 11:17:19; Dark ; 44.5; 52; 16Bet Cet ; 2.04; 4500;occ; 89; 0;27159
 13; 5677.5; 11-MAY-2007 11:24:08; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;27159
 14; 5769.0; 11-MAY-2007 11:25:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27159
 15; 5897.8; 11-MAY-2007 11:27:49; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;27159
 16; 6103.0; 11-MAY-2007 11:31:14; Dark ; 46.5; 148; Alp Tuc ; 2.88; 4100;occ; 93; 0;27159
 17; 6662.0; 11-MAY-2007 11:40:33; Dark ; 38.5; 43; Alp TrA ; 1.91; 4250;occ; 77; 0;27159
 18; 6793.5; 11-MAY-2007 11:42:44; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;27159
 19; 6902.7; 11-MAY-2007 11:44:34; Dark ; 42.5; 4; Alp1Cen ;-0.01; 5800;occ; 85; 0;27159
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 21; 7205.5; 11-MAY-2007 11:49:36; Dark ; 37.5; 81; Eta Cen ; 2.36; 28000;occ; 75; 0;27159
 22; 7323.4; 11-MAY-2007 11:51:34; Dark ; 40.5; 54; 5The Cen ; 2.06; 4500;occ; 81; 0;27159
 23; 7573.3; 11-MAY-2007 11:55:44; Bright; 36.0; 169; 46Gam Hya ; 2.99; 4700;occ; 72; 0;27159

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20070511_115900_000058772058_00052_27160_7766.N1

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 3; 2221.2; 11-MAY-2007 12:07:08; Bright; 35.0; 111; 8Eta Boo ; 2.68; 6000;occ; 70; 0;27160
 4; 2568.8; 11-MAY-2007 12:12:56; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;27160
 5; 2748.6; 11-MAY-2007 12:15:55; Bright; 35.0; 39; 85Eta UMa ; 1.85; 24000;occ; 70; 0;27160
 6; 2840.3; 11-MAY-2007 12:17:27; Bright; 36.5; 55; 79Zet UMa ; 2.06; 10200;occ; 73; 0;27160
 7; 3036.4; 11-MAY-2007 12:20:43; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;27160
 8; 3445.7; 11-MAY-2007 12:27:33; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27160
 9; 3935.7; 11-MAY-2007 12:35:43; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;27160
 10; 4010.3; 11-MAY-2007 12:36:57; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;27160
 11; 4744.7; 11-MAY-2007 12:49:11; Dark ; 42.0; 140; 88Gam Peg ; 2.83; 26000;occ; 84; 0;27160
 12; 5268.4; 11-MAY-2007 12:57:55; Dark ; 44.5; 52; 16Bet Cet ; 2.04; 4500;occ; 89; 0;27160
 13; 5677.9; 11-MAY-2007 13:04:45; Dark ; 40.0; 84; Alp Phe ; 2.40; 4500;occ; 80; 0;27160
 14; 5769.3; 11-MAY-2007 13:06:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27160
 15; 5898.5; 11-MAY-2007 13:08:25; Dark ; 54.5; 63; Bet Gru ; 2.15; 2800;occ; 109; 0;27160
 16; 6103.5; 11-MAY-2007 13:11:50; Dark ; 41.5; 148; Alp Tuc ; 2.88; 4100;occ; 83; 0;27160
 17; 6662.3; 11-MAY-2007 13:21:09; Dark ; 38.0; 43; Alp TrA ; 1.91; 4250;occ; 76; 0;27160
 18; 6793.9; 11-MAY-2007 13:23:21; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;27160
 19; 6903.0; 11-MAY-2007 13:25:10; Dark ; 48.5; 4; Alp1Cen ;-0.01; 5800;occ; 97; 0;27160
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 21; 7205.7; 11-MAY-2007 13:30:13; Dark ; 36.5; 81; Eta Cen ; 2.36; 28000;occ; 73; 0;27160
 22; 7323.7; 11-MAY-2007 13:32:11; Dark ; 41.0; 54; 5The Cen ; 2.06; 4500;occ; 82; 0;27160
 23; 7573.4; 11-MAY-2007 13:36:20; Bright; 37.0; 169; 46Gam Hya ; 2.99; 4700;occ; 74; 0;27160

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20070511_133630_000058162058_00053_27161_7767.N1

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 2; 1733.2; 11-MAY-2007 13:39:36; Bright; 38.0; 15; 67Alp Vir ; 0.98; 28000;occ; 76; 0;27161
 3; 2114.4; 11-MAY-2007 13:45:57; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;27161
 4; 2221.2; 11-MAY-2007 13:47:44; Bright; 35.0; 111; 8Eta Boo ; 2.68; 6000;occ; 70; 0;27161
 5; 2569.1; 11-MAY-2007 13:53:32; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;27161
 6; 2748.5; 11-MAY-2007 13:56:31; Bright; 36.5; 39; 85Eta UMa ; 1.85; 24000;occ; 73; 0;27161
 7; 2840.4; 11-MAY-2007 13:58:03; Bright; 33.5; 55; 79Zet UMa ; 2.06; 10200;occ; 67; 0;27161
 8; 3036.8; 11-MAY-2007 14:01:20; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;27161
 9; 3445.7; 11-MAY-2007 14:08:08; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;27161


```

10; 3935.8; 11-MAY-2007 14:16:18; Bright; 33.0; 76; 27Gam Cas ; 2.30; 30000;occ; 66; 0;27161
11; 4010.4; 11-MAY-2007 14:17:33; Bright; 33.5; 68; 18Alp Cas ; 2.22; 4500;occ; 67; 0;27161
12; 4745.5; 11-MAY-2007 14:29:48; Dark ; 39.5; 140; 88Gam Peg ; 2.83; 26000;occ; 79; 0;27161
13; 5268.7; 11-MAY-2007 14:38:31; Dark ; 42.0; 52; 16Bet Cet ; 2.04; 4500;occ; 84; 0;27161
14; 5678.2; 11-MAY-2007 14:45:21; Dark ; 39.5; 84; Alp Phe ; 2.40; 4500;occ; 79; 0;27161
15; 5769.8; 11-MAY-2007 14:46:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27161
16; 5899.1; 11-MAY-2007 14:49:02; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;27161
17; 6104.0; 11-MAY-2007 14:52:27; Dark ; 40.0; 148; Alp Tuc ; 2.88; 4100;occ; 80; 0;27161
18; 6662.7; 11-MAY-2007 15:01:45; Dark ; 40.0; 43; Alp TrA ; 1.91; 4250;occ; 80; 0;27161
19; 6794.2; 11-MAY-2007 15:03:57; Dark ; 36.5; 134; Bet TrA ; 2.81; 6600;occ; 73; 0;27161
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2; 1733.2; 11-MAY-2007 15:20:12; Bright; 37.0; 15; 67Alp Vir ; 0.98; 28000;occ; 74; 0;27162
3; 2114.7; 11-MAY-2007 15:26:33; Bright; 34.5; 138; 47Eps Vir ; 2.83; 4700;occ; 69; 0;27162
4; 2221.3; 11-MAY-2007 15:28:20; Bright; 35.5; 111; 8Eta Boo ; 2.68; 6000;occ; 71; 0;27162
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6; 2748.5; 11-MAY-2007 15:37:07; Bright; 36.5; 39; 85Eta UMa ; 1.85; 24000;occ; 73; 0;27162
7; 2840.4; 11-MAY-2007 15:38:39; Bright; 37.0; 55; 79Zet UMa ; 2.06; 10200;occ; 74; 0;27162
8; 3037.1; 11-MAY-2007 15:41:56; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;27162
9; 3445.8; 11-MAY-2007 15:48:44; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27162
10; 3935.8; 11-MAY-2007 15:56:54; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;27162
11; 4010.6; 11-MAY-2007 15:58:09; Bright; 45.0; 68; 18Alp Cas ; 2.22; 4500;occ; 90; 0;27162
12; 4745.4; 11-MAY-2007 16:10:24; Dark ; 42.0; 140; 88Gam Peg ; 2.83; 26000;occ; 84; 0;27162
13; 5269.1; 11-MAY-2007 16:19:08; Dark ; 42.5; 52; 16Bet Cet ; 2.04; 4500;occ; 85; 0;27162
14; 5678.5; 11-MAY-2007 16:25:57; Dark ; 39.5; 84; Alp Phe ; 2.40; 4500;occ; 79; 0;27162
15; 5770.2; 11-MAY-2007 16:27:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27162
16; 5899.7; 11-MAY-2007 16:29:38; Dark ; 56.0; 63; Bet Gru ; 2.15; 2800;occ; 112; 0;27162
17; 6104.5; 11-MAY-2007 16:33:03; Dark ; 45.0; 148; Alp Tuc ; 2.88; 4100;occ; 90; 0;27162
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19; 6794.6; 11-MAY-2007 16:44:33; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;27162
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22; 7206.4; 11-MAY-2007 16:51:25; Dark ; 37.5; 81; Eta Cen ; 2.36; 28000;occ; 75; 0;27162
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3; 1733.3; 11-MAY-2007 17:00:48; Bright; 37.5; 15; 67Alp Vir ; 0.98; 28000;occ; 75; 0;27163
4; 2114.7; 11-MAY-2007 17:07:09; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;27163
5; 2221.3; 11-MAY-2007 17:08:56; Bright; 35.0; 111; 8Eta Boo ; 2.68; 6000;occ; 70; 0;27163
6; 2569.3; 11-MAY-2007 17:14:44; Bright; 34.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 68; 0;27163
7; 2748.4; 11-MAY-2007 17:17:43; Bright; 37.5; 39; 85Eta UMa ; 1.85; 24000;occ; 75; 0;27163
8; 2840.2; 11-MAY-2007 17:19:15; Bright; 37.0; 55; 79Zet UMa ; 2.06; 10200;occ; 74; 0;27163
9; 3037.5; 11-MAY-2007 17:22:32; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;27163
10; 3445.8; 11-MAY-2007 17:29:20; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27163
11; 3936.1; 11-MAY-2007 17:37:31; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;27163
12; 4010.6; 11-MAY-2007 17:38:45; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;27163
13; 4745.7; 11-MAY-2007 17:51:00; Dark ; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;27163
14; 5269.3; 11-MAY-2007 17:59:44; Dark ; 45.0; 52; 16Bet Cet ; 2.04; 4500;occ; 90; 0;27163
15; 5678.6; 11-MAY-2007 18:06:33; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;27163
16; 5770.6; 11-MAY-2007 18:08:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27163
17; 5900.3; 11-MAY-2007 18:10:15; Dark ; 56.0; 63; Bet Gru ; 2.15; 2800;occ; 112; 0;27163
18; 6104.9; 11-MAY-2007 18:13:40; Dark ; 39.0; 148; Alp Tuc ; 2.88; 4100;occ; 78; 0;27163
19; 6663.5; 11-MAY-2007 18:22:58; Dark ; 50.0; 43; Alp TrA ; 1.91; 4250;occ; 100; 0;27163
20; 6794.8; 11-MAY-2007 18:25:09; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;27163
21; 6903.7; 11-MAY-2007 18:26:58; Dark ; 45.0; 4; Alp1Cen ; -0.01; 5800;occ; 90; 0;27163
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20070511_230132_000060782058_00058_27166_3681.N1
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2; -356.7; 11-MAY-2007 23:08:22; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;27166
3; -264.2; 11-MAY-2007 23:09:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27166
4; -134.0; 11-MAY-2007 23:12:04; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;27166
5; 70.3; 11-MAY-2007 23:15:29; Dark ; 45.0; 148; Alp Tuc ; 2.88; 4100;occ; 90; 0;27167
6; 628.3; 11-MAY-2007 23:24:47; Dark ; 42.0; 43; Alp TrA ; 1.91; 4250;occ; 84; 0;27167
7; 759.8; 11-MAY-2007 23:26:58; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;27167

```

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 10; 1171.2; 11-MAY-2007 23:33:50; Dark ; 38.5; 81; Eta Cen ; 2.36; 28000;occ; 77; 0;27167
 11; 1288.9; 11-MAY-2007 23:35:47; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;27167
 12; 1538.5; 11-MAY-2007 23:39:57; Bright; 38.0; 169; 46Gam Hya ; 2.99; 4700;occ; 76; 0;27167
 13; 1734.0; 11-MAY-2007 23:43:12; Bright; 37.5; 15; 67Alp Vir ; 0.98; 28000;occ; 75; 0;27167
 14; 2115.4; 11-MAY-2007 23:49:34; Bright; 34.5; 138; 47Eps Vir ; 2.83; 4700;occ; 69; 0;27167
 15; 2221.2; 11-MAY-2007 23:51:20; Bright; 34.5; 111; 8Eta Boo ; 2.68; 6000;occ; 69; 0;27167
 16; 2569.8; 11-MAY-2007 23:57:08; Bright; 33.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 66; 0;27167
 17; 2748.0; 12-MAY-2007 00:00:06; Bright; 35.0; 39; 85Eta UMa ; 1.85; 24000;occ; 70; 0;27167
 18; 2840.2; 12-MAY-2007 00:01:39; Bright; 35.5; 55; 79Zet UMa ; 2.06; 10200;occ; 71; 0;27167
 19; 3038.8; 12-MAY-2007 00:04:57; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;27167
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 22; 4010.8; 12-MAY-2007 00:21:09; Bright; 34.0; 68; 18Alp Cas ; 2.22; 4500;occ; 68; 0;27167
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 9; 2748.4; 11-MAY-2007 18:58:19; Bright; 37.0; 39; 85Eta UMa ; 1.85; 24000;occ; 74; 0;27164
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8; 72.4; 12-MAY-2007 07:38:30; Dark ; 48.5; 148; Alp Tuc ; 2.88; 4100;occ; 97; 0;27172
9; 629.9; 12-MAY-2007 07:47:48; Dark ; 41.5; 43; Alp TrA ; 1.91; 4250;occ; 83; 0;27172
10; 761.4; 12-MAY-2007 07:49:59; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;27172
11; 869.3; 12-MAY-2007 07:51:47; Dark ; 48.0; 4; Alp1Cen ; -0.01; 5800;occ; 96; 0;27172
12; 1081.6; 12-MAY-2007 07:55:20; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;27172
13; 1172.4; 12-MAY-2007 07:56:50; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;27172
14; 1290.0; 12-MAY-2007 07:58:48; Dark ; 42.0; 54; 5The Cen ; 2.06; 4500;occ; 84; 0;27172
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2; 2116.4; 12-MAY-2007 08:12:34; Bright; 34.5; 138; 47Eps Vir ; 2.83; 4700;occ; 69; 0;27172
3; 2221.0; 12-MAY-2007 08:14:19; Bright; 36.0; 111; 8Eta Boo ; 2.68; 6000;occ; 72; 0;27172
4; 2570.7; 12-MAY-2007 08:20:09; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;27172
5; 2747.7; 12-MAY-2007 08:23:06; Bright; 35.5; 39; 85Eta UMa ; 1.85; 24000;occ; 71; 0;27172
6; 2840.1; 12-MAY-2007 08:24:38; Bright; 35.0; 55; 79Zet UMa ; 2.06; 10200;occ; 70; 0;27172
7; 3040.4; 12-MAY-2007 08:27:58; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;27172
8; 3445.8; 12-MAY-2007 08:34:44; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27172
9; 3935.9; 12-MAY-2007 08:42:54; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;27172
10; 4010.7; 12-MAY-2007 08:44:09; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;27172
11; 4747.7; 12-MAY-2007 08:56:26; Dark ; 39.0; 140; 88Gam Peg ; 2.83; 26000;occ; 78; 0;27172
12; 5271.4; 12-MAY-2007 09:05:09; Dark ; 43.5; 52; 16Bet Cet ; 2.04; 4500;occ; 87; 0;27172
13; 5565.9; 12-MAY-2007 09:10:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27172
14; 5680.6; 12-MAY-2007 09:11:59; Dark ; 40.5; 84; Alp Phe ; 2.40; 4500;occ; 81; 0;27172

```

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 16; 6108.8; 12-MAY-2007 09:19:07; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;27172
 17; 6666.1; 12-MAY-2007 09:28:24; Dark ; 41.0; 43; Alp TrA ; 1.91; 4250;occ; 82; 0;27172
 18; 6797.6; 12-MAY-2007 09:30:36; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;27172
 19; 6905.4; 12-MAY-2007 09:32:23; Dark ; 42.0; 4; Alp1Cen ;-0.01; 5800;occ; 84; 0;27172
 20; 7117.8; 12-MAY-2007 09:35:56; Dark ; 37.5; 78; Alp Lup ; 2.30; 28000;occ; 75; 0;27172
 21; 7208.5; 12-MAY-2007 09:37:27; Dark ; 38.5; 81; Eta Cen ; 2.36; 28000;occ; 77; 0;27172
 22; 7326.0; 12-MAY-2007 09:39:24; Dark ; 40.5; 54; 5The Cen ; 2.06; 4500;occ; 81; 0;27172
 23; 7575.5; 12-MAY-2007 09:43:34; Bright; 37.5; 169; 46Gam Hya ; 2.99; 4700;occ; 75; 0;27172
 24; 7770.9; 12-MAY-2007 09:46:49; Bright; 35.5; 15; 67Alp Vir ; 0.98; 28000;occ; 71; 0;27172

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20070512_094706_000058572058_00065_27173_7775.N1

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 2; 2116.6; 12-MAY-2007 09:53:11; Bright; 34.5; 138; 47Eps Vir ; 2.83; 4700;occ; 69; 0;27173
 3; 2221.0; 12-MAY-2007 09:54:55; Bright; 36.5; 111; 8Eta Boo ; 2.68; 6000;occ; 73; 0;27173
 4; 2570.7; 12-MAY-2007 10:00:45; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;27173
 5; 2747.7; 12-MAY-2007 10:03:42; Bright; 37.5; 39; 85Eta UMa ; 1.85; 24000;occ; 75; 0;27173
 6; 2840.1; 12-MAY-2007 10:05:14; Bright; 36.5; 55; 79Zet UMa ; 2.06; 10200;occ; 73; 0;27173
 7; 3040.7; 12-MAY-2007 10:08:35; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;27173
 8; 3445.7; 12-MAY-2007 10:15:20; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27173
 9; 3935.9; 12-MAY-2007 10:23:30; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;27173
 10; 4010.7; 12-MAY-2007 10:24:45; Bright; 53.0; 68; 18Alp Cas ; 2.22; 4500;occ; 106; 0;27173
 11; 4748.0; 12-MAY-2007 10:37:02; Dark ; 42.0; 140; 88Gam Peg ; 2.83; 26000;occ; 84; 0;27173
 12; 5271.6; 12-MAY-2007 10:45:46; Dark ; 41.0; 52; 16Bet Cet ; 2.04; 4500;occ; 82; 0;27173
 13; 5566.0; 12-MAY-2007 10:50:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27173
 14; 5680.8; 12-MAY-2007 10:52:35; Dark ; 40.5; 84; Alp Phe ; 2.40; 4500;occ; 81; 0;27173
 15; 5906.0; 12-MAY-2007 10:56:20; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;27173
 16; 6109.2; 12-MAY-2007 10:59:43; Dark ; 37.5; 148; Alp Tuc ; 2.88; 4100;occ; 75; 0;27173
 17; 6666.4; 12-MAY-2007 11:09:00; Dark ; 39.0; 43; Alp TrA ; 1.91; 4250;occ; 78; 0;27173
 18; 6797.7; 12-MAY-2007 11:11:12; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;27173
 19; 6905.6; 12-MAY-2007 11:13:00; Dark ; 42.5; 4; Alp1Cen ;-0.01; 5800;occ; 85; 0;27173
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 21; 7208.8; 12-MAY-2007 11:18:03; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;27173
 22; 7326.2; 12-MAY-2007 11:20:00; Dark ; 40.0; 54; 5The Cen ; 2.06; 4500;occ; 80; 0;27173
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20070512_112725_000058762058_00066_27174_7776.N1

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 3; 2221.1; 12-MAY-2007 11:35:31; Bright; 35.5; 111; 8Eta Boo ; 2.68; 6000;occ; 71; 0;27174
 4; 2570.8; 12-MAY-2007 11:41:21; Bright; 36.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 72; 0;27174
 5; 2747.6; 12-MAY-2007 11:44:17; Bright; 36.0; 39; 85Eta UMa ; 1.85; 24000;occ; 72; 0;27174
 6; 2840.1; 12-MAY-2007 11:45:50; Bright; 37.0; 55; 79Zet UMa ; 2.06; 10200;occ; 74; 0;27174
 7; 3041.0; 12-MAY-2007 11:49:11; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;27174
 8; 3445.6; 12-MAY-2007 11:55:55; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27174
 9; 3936.1; 12-MAY-2007 12:04:06; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;27174
 10; 4010.6; 12-MAY-2007 12:05:20; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;27174
 11; 4748.6; 12-MAY-2007 12:17:38; Dark ; 39.5; 140; 88Gam Peg ; 2.83; 26000;occ; 79; 0;27174
 12; 5271.8; 12-MAY-2007 12:26:22; Dark ; 42.5; 52; 16Bet Cet ; 2.04; 4500;occ; 85; 0;27174
 13; 5566.1; 12-MAY-2007 12:31:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27174
 14; 5681.1; 12-MAY-2007 12:33:11; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;27174
 15; 5906.5; 12-MAY-2007 12:36:56; Dark ; 45.0; 63; Bet Gru ; 2.15; 2800;occ; 90; 0;27174
 16; 6109.6; 12-MAY-2007 12:40:19; Dark ; 39.0; 43; Alp Tuc ; 2.88; 4100;occ; 78; 0;27174
 17; 6666.7; 12-MAY-2007 12:49:37; Dark ; 37.5; 43; Alp TrA ; 1.91; 4250;occ; 75; 0;27174
 18; 6798.1; 12-MAY-2007 12:51:48; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;27174
 19; 6905.7; 12-MAY-2007 12:53:36; Dark ; 47.5; 4; Alp1Cen ;-0.01; 5800;occ; 95; 0;27174
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 21; 7208.9; 12-MAY-2007 12:58:39; Dark ; 39.5; 81; Eta Cen ; 2.36; 28000;occ; 79; 0;27174
 22; 7326.4; 12-MAY-2007 13:00:36; Dark ; 39.5; 54; 5The Cen ; 2.06; 4500;occ; 79; 0;27174
 23; 7575.8; 12-MAY-2007 13:04:46; Bright; 35.5; 169; 46Gam Hya ; 2.99; 4700;occ; 71; 0;27174

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20070512_130801_000056312058_00067_27175_7777.N1

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 3; 2221.1; 12-MAY-2007 13:16:07; Bright; 34.5; 111; 8Eta Boo ; 2.68; 6000;occ; 69; 0;27175
 4; 2571.0; 12-MAY-2007 13:21:57; Bright; 36.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 72; 0;27175
 5; 2747.5; 12-MAY-2007 13:24:53; Bright; 36.0; 39; 85Eta UMa ; 1.85; 24000;occ; 72; 0;27175
 6; 2840.2; 12-MAY-2007 13:26:26; Bright; 34.0; 55; 79Zet UMa ; 2.06; 10200;occ; 68; 0;27175
 7; 3041.4; 12-MAY-2007 13:29:47; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;27175
 8; 3445.7; 12-MAY-2007 13:36:31; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;27175
 9; 3936.2; 12-MAY-2007 13:44:42; Bright; 52.0; 76; 27Gam Cas ; 2.30; 30000;occ; 104; 0;27175

```

10; 4011.0; 12-MAY-2007 13:45:57; Bright; 33.5; 68; 18Alp Cas ; 2.22; 4500;occ; 67; 0;27175
11; 4748.7; 12-MAY-2007 13:58:14; Dark ; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;27175
12; 5272.1; 12-MAY-2007 14:06:58; Dark ; 43.5; 52; 16Bet Cet ; 2.04; 4500;occ; 87; 0;27175
13; 5566.3; 12-MAY-2007 14:11:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27175
14; 5681.4; 12-MAY-2007 14:13:47; Dark ; 39.5; 84; Alp Phe ; 2.40; 4500;occ; 79; 0;27175
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16; 6110.1; 12-MAY-2007 14:20:56; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;27175
17; 6667.1; 12-MAY-2007 14:30:13; Dark ; 42.0; 43; Alp TrA ; 1.91; 4250;occ; 84; 0;27175
18; 6798.5; 12-MAY-2007 14:32:24; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;27175
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 7; 2840.2; 12-MAY-2007 15:07:02; Bright; 36.5; 55; 79Zet UMa ; 2.06; 10200;occ; 73; 0;27176
 8; 3041.7; 12-MAY-2007 15:10:23; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;27176
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11; 4010.8; 12-MAY-2007 15:26:32; Bright; 34.0; 68; 18Alp Cas ; 2.22; 4500;occ; 68; 0;27176
12; 4749.0; 12-MAY-2007 15:38:51; Dark ; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;27176
13; 5272.5; 12-MAY-2007 15:47:34; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;27176
14; 5566.5; 12-MAY-2007 15:52:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27176
15; 5681.7; 12-MAY-2007 15:54:23; Dark ; 39.5; 84; Alp Phe ; 2.40; 4500;occ; 79; 0;27176
16; 5907.9; 12-MAY-2007 15:58:09; Dark ; 56.0; 63; Bet Gru ; 2.15; 2800;occ; 112; 0;27176
17; 6110.7; 12-MAY-2007 16:01:32; Dark ; 47.0; 148; Alp Tuc ; 2.88; 4100;occ; 94; 0;27176
18; 6667.5; 12-MAY-2007 16:10:49; Dark ; 39.5; 43; Alp TrA ; 1.91; 4250;occ; 79; 0;27176
19; 6798.9; 12-MAY-2007 16:13:01; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;27176
20; 6906.3; 12-MAY-2007 16:14:48; Dark ; 48.0; 4; Alp1Cen ; -0.01; 5800;occ; 96; 0;27176
21; 7118.8; 12-MAY-2007 16:18:20; Dark ; 37.5; 78; Alp Lup ; 2.30; 28000;occ; 75; 0;27176
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20070513_001644_000052832058_00073_27181_3688.N1
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 2; -249.5; 13-MAY-2007 00:19:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27181
 3; -42.4; 13-MAY-2007 00:22:35; Dark ; 40.0; 31; Alp Gru ; 1.73; 15200;occ; 80; 0;27181
 4; 292.9; 13-MAY-2007 00:28:10; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;27182
 5; 733.1; 13-MAY-2007 00:35:30; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;27182
 6; 879.2; 13-MAY-2007 00:37:56; Dark ; 52.0; 40; The Sco ; 1.86; 7100;occ; 104; 0;27182
 7; 990.9; 13-MAY-2007 00:39:48; Dark ; 57.5; 25; 35Lam Sco ; 1.62; 28000;occ; 115; 0;27182
 8; 1141.0; 13-MAY-2007 00:42:18; Dark ; 55.0; 75; 26Eps Sco ; 2.29; 4250;occ; 110; 0;27182
 9; 1334.6; 13-MAY-2007 00:45:32; Dark ; 57.0; 16; 21Alp Sco ; 1.02; 3000;occ; 114; 0;27182
10; 1443.7; 13-MAY-2007 00:47:21; Dark ; 53.5; 80; 7Del Sco ; 2.32; 30000;occ; 107; 0;27182
11; 1609.9; 13-MAY-2007 00:50:07; Bright; 38.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 76; 0;27182
12; 1725.8; 13-MAY-2007 00:52:03; Bright; 40.0; 104; 27Bet Lib ; 2.61; 13100;occ; 80; 0;27182
13; 2062.9; 13-MAY-2007 00:57:40; Bright; 46.0; 102; 24Alp Ser ; 2.60; 4250;occ; 92; 0;27182
14; 2393.2; 13-MAY-2007 01:03:10; Bright; 40.5; 83; ; 2.38; 11000;occ; 81; 0;27182
15; 2580.1; 13-MAY-2007 01:06:17; Bright; 37.0; 180; 27Gam Boo ; 3.04; 8000;occ; 74; 0;27182
16; 3116.1; 13-MAY-2007 01:15:13; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;27182
17; 3769.6; 13-MAY-2007 01:26:07; Bright; 55.5; 89; 5Alp Cep ; 2.45; 8000;occ; 111; 0;27182
18; 3964.3; 13-MAY-2007 01:29:22; Bright; 35.0; 74; 11Bet Cas ; 2.27; 6600;occ; 70; 0;27182
19; 4569.2; 13-MAY-2007 01:39:26; Dark ; 60.0; 93; 53Bet Peg ; 2.52; 3100;occ; 120; 0;27182
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 3; 1290.9; 12-MAY-2007 16:21:49; Dark ; 45.0; 54; 5The Cen ; 2.06; 4500;occ; 90; 0;27177
 4; 1540.2; 12-MAY-2007 16:25:58; Bright; 37.5; 169; 46Gam Hya ; 2.99; 4700;occ; 75; 0;27177
 5; 1735.8; 12-MAY-2007 16:29:13; Bright; 36.0; 15; 67Alp Vir ; 0.98; 28000;occ; 72; 0;27177
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 7; 2221.2; 12-MAY-2007 16:37:19; Bright; 35.0; 111; 8Eta Boo ; 2.68; 6000;occ; 70; 0;27177
 8; 2571.4; 12-MAY-2007 16:43:09; Bright; 35.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 70; 0;27177
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12; 3445.7; 12-MAY-2007 16:57:43; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27177
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15; 4749.3; 12-MAY-2007 17:19:27; Dark ; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;27177
16; 5272.9; 12-MAY-2007 17:28:10; Dark ; 40.0; 52; 16Bet Cet ; 2.04; 4500;occ; 80; 0;27177
17; 5566.7; 12-MAY-2007 17:33:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27177
18; 5682.0; 12-MAY-2007 17:35:00; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;27177
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20; 6111.2; 12-MAY-2007 17:42:09; Dark ; 43.0; 148; Alp Tuc ; 2.88; 4100;occ; 86; 0;27177
21; 6667.8; 12-MAY-2007 17:51:25; Dark ; 49.5; 43; Alp TrA ; 1.91; 4250;occ; 99; 0;27177
22; 6799.2; 12-MAY-2007 17:53:37; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;27177
23; 6906.5; 12-MAY-2007 17:55:24; Dark ; 45.0; 4; Alp1Cen ; -0.01; 5800;occ; 90; 0;27177
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 4; 1540.4; 12-MAY-2007 18:06:34; Bright; 37.0; 169; 46Gam Hya ; 2.99; 4700;occ; 74; 0;27178
 5; 1735.9; 12-MAY-2007 18:09:50; Bright; 38.5; 15; 67Alp Vir ; 0.98; 28000;occ; 77; 0;27178
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10; 2840.3; 12-MAY-2007 18:28:14; Bright; 36.0; 55; 79Zet UMa ; 2.06; 10200;occ; 72; 0;27178
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13; 2062.5; 13-MAY-2007 02:38:16; Bright; 46.0; 102; 24Alp Ser ; 2.60; 4250;occ; 92; 0;27183
14; 2393.1; 13-MAY-2007 02:43:46; Bright; 40.5; 83; ; 2.38; 11000;occ; 81; 0;27183
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11; 992.5; 13-MAY-2007 04:01:01; Dark ; 59.0; 25; 35Lam Sco ; 1.62; 28000;occ; 118; 0;27184
12; 1142.2; 13-MAY-2007 04:03:31; Dark ; 55.0; 75; 26Eps Sco ; 2.29; 4250;occ; 110; 0;27184
13; 1335.4; 13-MAY-2007 04:06:44; Dark ; 68.0; 16; 21Alp Sco ; 1.02; 3000;occ; 136; 0;27184
14; 1444.2; 13-MAY-2007 04:08:33; Dark ; 58.0; 80; 7Del Sco ; 2.32; 30000;occ; 116; 0;27184
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16; 1726.1; 13-MAY-2007 04:13:15; Bright; 40.5; 104; 27Bet Lib ; 2.61; 13100;occ; 81; 0;27184
17; 2062.3; 13-MAY-2007 04:18:51; Bright; 45.5; 102; 24Alp Ser ; 2.60; 4250;occ; 91; 0;27184
18; 2392.9; 13-MAY-2007 04:24:22; Bright; 40.0; 83; ; 2.38; 11000;occ; 80; 0;27184

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4; -1196.6; 13-MAY-2007 05:05:08; Dark ; 50.0; 90; 54Alp Peg ; 2.49; 11000;occ; 100; 0;27184
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9; 734.9; 13-MAY-2007 05:37:20; Dark ; 45.0; 141; Bet Ara ; 2.84; 4600;occ; 90; 0;27185
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11; 993.1; 13-MAY-2007 05:41:38; Dark ; 55.5; 25; 35Lam Sco ; 1.62; 28000;occ; 111; 0;27185
12; 1142.6; 13-MAY-2007 05:44:08; Dark ; 54.0; 75; 26Eps Sco ; 2.29; 4250;occ; 108; 0;27185
13; 1335.7; 13-MAY-2007 05:47:21; Dark ; 59.5; 16; 21Alp Sco ; 1.02; 3000;occ; 119; 0;27185
14; 1444.4; 13-MAY-2007 05:49:09; Dark ; 60.0; 80; 7Del Sco ; 2.32; 30000;occ; 120; 0;27185
15; 1610.3; 13-MAY-2007 05:51:55; Bright; 37.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 75; 0;27185
16; 1725.9; 13-MAY-2007 05:53:51; Bright; 40.5; 104; 27Bet Lib ; 2.61; 13100;occ; 81; 0;27185
17; 2062.0; 13-MAY-2007 05:59:27; Bright; 46.5; 102; 24Alp Ser ; 2.60; 4250;occ; 93; 0;27185
18; 2392.6; 13-MAY-2007 06:04:58; Bright; 38.5; 83; ; 2.38; 11000;occ; 77; 0;27185
19; 2580.0; 13-MAY-2007 06:08:05; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;27185
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3; 999.4; 13-MAY-2007 20:47:08; Dark ; 52.0; 25; 35Lam Sco ; 1.62; 28000;occ; 104; 0;27194
4; 1147.0; 13-MAY-2007 20:49:36; Dark ; 56.0; 75; 26Eps Sco ; 2.29; 4250;occ; 112; 0;27194
5; 1338.7; 13-MAY-2007 20:52:47; Dark ; 67.0; 16; 21Alp Sco ; 1.02; 3000;occ; 134; 0;27194
6; 1446.4; 13-MAY-2007 20:54:35; Dark ; 51.0; 80; 7Del Sco ; 2.32; 30000;occ; 102; 0;27194
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8; 2058.8; 13-MAY-2007 21:04:47; Bright; 45.0; 102; 24Alp Ser ; 2.60; 4250;occ; 90; 0;27194
9; 2390.4; 13-MAY-2007 21:10:19; Bright; 39.0; 83; ; 2.38; 11000;occ; 78; 0;27194
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12; 3764.4; 13-MAY-2007 21:33:13; Bright; 55.5; 89; 5Alp Cep ; 2.45; 8000;occ; 111; 0;27194
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4; 2579.6; 13-MAY-2007 07:48:41; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;27186
5; 3114.2; 13-MAY-2007 07:57:35; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;27186
6; 3768.0; 13-MAY-2007 08:08:29; Bright; 65.0; 89; 5Alp Cep ; 2.45; 8000;occ; 130; 0;27186
7; 3964.2; 13-MAY-2007 08:11:45; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;27186
8; 4570.3; 13-MAY-2007 08:21:51; Dark ; 56.0; 93; 53Bet Peg ; 2.52; 3100;occ; 112; 0;27186
9; 4840.1; 13-MAY-2007 08:26:21; Dark ; 52.5; 90; 54Alp Peg ; 2.49; 11000;occ; 105; 0;27186
10; 5646.1; 13-MAY-2007 08:39:47; Dark ; 49.0; 18; 24Alp PsA ; 1.17; 9700;occ; 98; 0;27186
11; 5790.6; 13-MAY-2007 08:42:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27186
12; 5997.2; 13-MAY-2007 08:45:38; Dark ; 52.0; 31; Alp Gru ; 1.73; 15200;occ; 104; 0;27186
13; 6332.4; 13-MAY-2007 08:51:13; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27186
14; 6771.9; 13-MAY-2007 08:58:33; Dark ; 46.0; 141; Bet Ara ; 2.84; 4600;occ; 92; 0;27186
15; 6918.8; 13-MAY-2007 09:01:00; Dark ; 52.0; 40; The Sco ; 1.86; 7100;occ; 104; 0;27186
16; 7030.4; 13-MAY-2007 09:02:51; Dark ; 55.0; 25; 35Lam Sco ; 1.62; 28000;occ; 110; 0;27186
17; 7179.5; 13-MAY-2007 09:05:21; Dark ; 57.5; 75; 26Eps Sco ; 2.29; 4250;occ; 115; 0;27186
18; 7372.2; 13-MAY-2007 09:08:33; Dark ; 61.0; 16; 21Alp Sco ; 1.02; 3000;occ; 122; 0;27186
19; 7480.7; 13-MAY-2007 09:10:22; Dark ; 51.5; 80; 7Del Sco ; 2.32; 30000;occ; 103; 0;27186
20; 7646.6; 13-MAY-2007 09:13:08; Bright; 38.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 76; 0;27186
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2; 2061.2; 13-MAY-2007 09:20:38; Bright; 46.0; 102; 24Alp Ser ; 2.60; 4250;occ; 92; 0;27187
3; 2392.1; 13-MAY-2007 09:26:09; Bright; 41.5; 83; ; 2.38; 11000;occ; 83; 0;27187
4; 2579.3; 13-MAY-2007 09:29:16; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;27187
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6; 3767.5; 13-MAY-2007 09:49:04; Bright; 58.0; 89; 5Alp Cep ; 2.45; 8000;occ; 116; 0;27187
7; 3964.3; 13-MAY-2007 09:52:21; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;27187
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9; 4840.6; 13-MAY-2007 10:06:58; Dark ; 52.5; 90; 54Alp Peg ; 2.49; 11000;occ; 105; 0;27187
10; 5646.9; 13-MAY-2007 10:20:24; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;27187
11; 5791.4; 13-MAY-2007 10:22:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27187
12; 5997.9; 13-MAY-2007 10:26:15; Dark ; 40.5; 31; Alp Gru ; 1.73; 15200;occ; 81; 0;27187
13; 6333.1; 13-MAY-2007 10:31:50; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;27187
14; 6772.4; 13-MAY-2007 10:39:09; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;27187
15; 6919.4; 13-MAY-2007 10:41:36; Dark ; 51.5; 40; The Sco ; 1.86; 7100;occ; 103; 0;27187

```



```

16; 7031.1; 13-MAY-2007 10:43:28; Dark ; 54.0; 25; 35Lam Sco ; 1.62; 28000;occ; 108; 0;27187
17; 7180.1; 13-MAY-2007 10:45:57; Dark ; 53.0; 75; 26Eps Sco ; 2.29; 4250;occ; 106; 0;27187
18; 7372.6; 13-MAY-2007 10:49:10; Dark ; 67.5; 16; 21Alp Sco ; 1.02; 3000;occ; 135; 0;27187
19; 7481.0; 13-MAY-2007 10:50:58; Dark ; 55.5; 80; 7Del Sco ; 2.32; 30000;occ; 111; 0;27187
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 2; 1726.1; 13-MAY-2007 10:55:39; Bright; 40.0; 104; 27Bet Lib ; 2.61; 13100;occ; 80; 0;27188
 3; 2060.8; 13-MAY-2007 11:01:14; Bright; 45.0; 102; 24Alp Ser ; 2.60; 4250;occ; 90; 0;27188
 4; 2391.9; 13-MAY-2007 11:06:45; Bright; 40.5; 83; ; 2.38; 11000;occ; 81; 0;27188
 5; 2579.0; 13-MAY-2007 11:09:52; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;27188
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 7; 3767.0; 13-MAY-2007 11:29:40; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;27188
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 9; 4570.6; 13-MAY-2007 11:43:03; Dark ; 62.5; 93; 53Bet Peg ; 2.52; 3100;occ; 125; 0;27188
10; 4841.2; 13-MAY-2007 11:47:34; Dark ; 52.5; 90; 54Alp Peg ; 2.49; 11000;occ; 105; 0;27188
11; 5647.5; 13-MAY-2007 12:01:00; Dark ; 52.5; 18; 24Alp PsA ; 1.17; 9700;occ; 105; 0;27188
12; 5792.2; 13-MAY-2007 12:03:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27188
13; 5998.6; 13-MAY-2007 12:06:51; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;27188
14; 6333.8; 13-MAY-2007 12:12:27; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27188
15; 6772.9; 13-MAY-2007 12:19:46; Dark ; 46.5; 141; Bet Ara ; 2.84; 4600;occ; 93; 0;27188
16; 6920.1; 13-MAY-2007 12:22:13; Dark ; 52.5; 40; The Sco ; 1.86; 7100;occ; 105; 0;27188
17; 7031.7; 13-MAY-2007 12:24:05; Dark ; 51.5; 25; 35Lam Sco ; 1.62; 28000;occ; 103; 0;27188
18; 7180.6; 13-MAY-2007 12:26:33; Dark ; 56.0; 75; 26Eps Sco ; 2.29; 4250;occ; 112; 0;27188
19; 7372.9; 13-MAY-2007 12:29:46; Dark ; 58.0; 16; 21Alp Sco ; 1.02; 3000;occ; 116; 0;27188
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 6; 3112.7; 13-MAY-2007 12:59:21; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;27189
 7; 3766.6; 13-MAY-2007 13:10:15; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;27189
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10; 4841.4; 13-MAY-2007 13:28:10; Dark ; 52.0; 90; 54Alp Peg ; 2.49; 11000;occ; 104; 0;27189
11; 5648.3; 13-MAY-2007 13:41:37; Dark ; 55.0; 18; 24Alp PsA ; 1.17; 9700;occ; 110; 0;27189
12; 5793.0; 13-MAY-2007 13:44:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27189
13; 5999.4; 13-MAY-2007 13:47:28; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;27189
14; 6334.5; 13-MAY-2007 13:53:03; Dark ; 50.0; 45; Alp Pav ; 1.94; 26000;occ; 100; 0;27189
15; 6773.4; 13-MAY-2007 14:00:22; Dark ; 50.0; 141; Bet Ara ; 2.84; 4600;occ; 100; 0;27189
16; 6920.9; 13-MAY-2007 14:02:50; Dark ; 53.0; 40; The Sco ; 1.86; 7100;occ; 106; 0;27189
17; 7032.6; 13-MAY-2007 14:04:41; Dark ; 50.0; 25; 35Lam Sco ; 1.62; 28000;occ; 100; 0;27189
18; 7181.1; 13-MAY-2007 14:07:10; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;27189
19; 7373.3; 13-MAY-2007 14:10:22; Dark ; 63.0; 16; 21Alp Sco ; 1.02; 3000;occ; 126; 0;27189
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 3; 1726.2; 13-MAY-2007 14:16:51; Bright; 40.0; 104; 27Bet Lib ; 2.61; 13100;occ; 80; 0;27190
 4; 2060.4; 13-MAY-2007 14:22:25; Bright; 44.5; 102; 24Alp Ser ; 2.60; 4250;occ; 89; 0;27190
 5; 2391.6; 13-MAY-2007 14:27:56; Bright; 37.5; 83; ; 2.38; 11000;occ; 75; 0;27190
 6; 2578.8; 13-MAY-2007 14:31:03; Bright; 37.0; 180; 27Gam Boo ; 3.04; 8000;occ; 74; 0;27190
 7; 3112.2; 13-MAY-2007 14:39:57; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;27190
 8; 3766.4; 13-MAY-2007 14:50:51; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;27190
 9; 3964.1; 13-MAY-2007 14:54:09; Bright; 36.0; 74; 11Bet Cas ; 2.27; 6600;occ; 72; 0;27190
10; 4571.2; 13-MAY-2007 15:04:16; Dark ; 53.5; 93; 53Bet Peg ; 2.52; 3100;occ; 107; 0;27190
11; 4842.0; 13-MAY-2007 15:08:47; Dark ; 53.0; 90; 54Alp Peg ; 2.49; 11000;occ; 106; 0;27190
12; 5649.2; 13-MAY-2007 15:22:14; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;27190
13; 5793.9; 13-MAY-2007 15:24:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27190
14; 6000.1; 13-MAY-2007 15:28:05; Dark ; 42.5; 31; Alp Gru ; 1.73; 15200;occ; 85; 0;27190
15; 6335.3; 13-MAY-2007 15:33:40; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;27190
16; 6774.1; 13-MAY-2007 15:40:59; Dark ; 40.5; 141; Bet Ara ; 2.84; 4600;occ; 81; 0;27190
17; 6921.7; 13-MAY-2007 15:43:26; Dark ; 53.0; 40; The Sco ; 1.86; 7100;occ; 106; 0;27190
18; 7033.4; 13-MAY-2007 15:45:18; Dark ; 55.5; 25; 35Lam Sco ; 1.62; 28000;occ; 111; 0;27190
19; 7181.6; 13-MAY-2007 15:47:46; Dark ; 51.0; 75; 26Eps Sco ; 2.29; 4250;occ; 102; 0;27190
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2; 1337.8; 13-MAY-2007 15:50:58; Dark ; 57.5; 16; 21Alp Sco ; 1.02; 3000;occ; 115; 0;27191
3; 1445.8; 13-MAY-2007 15:52:46; Dark ; 53.0; 80; 7Del Sco ; 2.32; 30000;occ; 106; 0;27191
4; 1611.1; 13-MAY-2007 15:55:32; Bright; 37.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 75; 0;27191
5; 1726.1; 13-MAY-2007 15:57:27; Bright; 53.0; 104; 27Bet Lib ; 2.61; 13100;occ; 106; 0;27191
6; 2059.8; 13-MAY-2007 16:03:00; Bright; 45.5; 102; 24Alp Ser ; 2.60; 4250;occ; 91; 0;27191
7; 2391.1; 13-MAY-2007 16:08:32; Bright; 40.0; 83; ; 2.38; 11000;occ; 80; 0;27191
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11; 3964.1; 13-MAY-2007 16:34:45; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;27191
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13; 4842.6; 13-MAY-2007 16:49:23; Dark ; 54.0; 90; 54Alp Peg ; 2.49; 11000;occ; 108; 0;27191
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18; 6774.7; 13-MAY-2007 17:21:35; Dark ; 50.5; 141; Bet Ara ; 2.84; 4600;occ; 101; 0;27191
19; 6922.4; 13-MAY-2007 17:24:03; Dark ; 53.0; 40; The Sco ; 1.86; 7100;occ; 106; 0;27191
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3; 1338.1; 13-MAY-2007 17:31:35; Dark ; 67.0; 16; 21Alp Sco ; 1.02; 3000;occ; 134; 0;27192
4; 1446.0; 13-MAY-2007 17:33:23; Dark ; 52.0; 80; 7Del Sco ; 2.32; 30000;occ; 104; 0;27192
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11; 3765.6; 13-MAY-2007 18:12:02; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;27192
12; 3964.0; 13-MAY-2007 18:15:21; Bright; 36.0; 74; 11Bet Cas ; 2.27; 6600;occ; 72; 0;27192
13; 4571.5; 13-MAY-2007 18:25:28; Dark ; 57.5; 93; 53Bet Peg ; 2.52; 3100;occ; 115; 0;27192
14; 4753.5; 13-MAY-2007 18:28:30; Dark ; 42.0; 140; 88Gam Peg ; 2.83; 26000;occ; 84; 0;27192
15; 4843.4; 13-MAY-2007 18:30:00; Dark ; 48.0; 90; 54Alp Peg ; 2.49; 11000;occ; 96; 0;27192
16; 5650.7; 13-MAY-2007 18:43:27; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;27192
17; 5795.6; 13-MAY-2007 18:45:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27192
18; 6001.6; 13-MAY-2007 18:49:18; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;27192
19; 6336.6; 13-MAY-2007 18:54:53; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27192
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9; 2390.6; 13-MAY-2007 19:29:43; Bright; 38.0; 83; ; 2.38; 11000;occ; 76; 0;27193
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11; 3110.6; 13-MAY-2007 19:41:43; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;27193
12; 3764.9; 13-MAY-2007 19:52:37; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;27193
13; 3963.9; 13-MAY-2007 19:55:56; Bright; 35.5; 74; 11Bet Cas ; 2.27; 6600;occ; 71; 0;27193
14; 4571.4; 13-MAY-2007 20:06:04; Dark ; 55.5; 93; 53Bet Peg ; 2.52; 3100;occ; 111; 0;27193
15; 4753.7; 13-MAY-2007 20:09:06; Dark ; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;27193
16; 4843.3; 13-MAY-2007 20:10:36; Dark ; 53.5; 90; 54Alp Peg ; 2.49; 11000;occ; 107; 0;27193
17; 5651.3; 13-MAY-2007 20:24:04; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;27193
18; 5796.4; 13-MAY-2007 20:26:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27193
19; 6002.2; 13-MAY-2007 20:29:55; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;27193
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7; 1001.5; 14-MAY-2007 01:48:58; Dark ; 55.0; 25; 35Lam Sco ; 1.62; 28000;occ; 110; 0;27197
8; 1148.6; 14-MAY-2007 01:51:25; Dark ; 54.0; 75; 26Eps Sco ; 2.29; 4250;occ; 108; 0;27197
9; 1339.7; 14-MAY-2007 01:54:36; Dark ; 65.0; 16; 21Alp Sco ; 1.02; 3000;occ; 130; 0;27197
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11; 1726.2; 14-MAY-2007 02:01:02; Bright; 41.0; 104; 27Bet Lib ; 2.61; 13100;occ; 82; 0;27197
12; 2057.7; 14-MAY-2007 02:06:34; Bright; 45.0; 102; 24Alp Ser ; 2.60; 4250;occ; 90; 0;27197
13; 2389.7; 14-MAY-2007 02:12:06; Bright; 38.0; 83; ; 2.38; 11000;occ; 76; 0;27197
14; 2577.1; 14-MAY-2007 02:15:13; Bright; 35.5; 180; 27Gam Boo ; 3.04; 8000;occ; 71; 0;27197
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10; 741.8; 14-MAY-2007 03:25:14; Dark ; 47.0; 141; Bet Ara ; 2.84; 4600;occ; 94; 0;27198
11; 890.4; 14-MAY-2007 03:27:42; Dark ; 51.0; 40; The Sco ; 1.86; 7100;occ; 102; 0;27198
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16; 1726.3; 14-MAY-2007 03:41:38; Bright; 40.5; 104; 27Bet Lib ; 2.61; 13100;occ; 81; 0;27198
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15; 1447.5; 14-MAY-2007 05:17:36; Dark ; 51.5; 80; 7Del Sco ; 2.32; 30000;occ; 103; 0;27199
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17; 2057.0; 14-MAY-2007 05:27:45; Bright; 45.5; 102; 24Alp Ser ; 2.60; 4250;occ; 91; 0;27199
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19; 2576.9; 14-MAY-2007 05:36:25; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;27199
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12; 1003.6; 14-MAY-2007 06:50:48; Dark ; 53.5; 25; 35Lam Sco ; 1.62; 28000;occ; 107; 0;27200
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13; 4872.4; 17-MAY-2007 16:24:01; Dark ; 56.5; 90; 54Alp Peg ; 2.49; 11000;occ; 113; 0;27248
14; 5695.0; 17-MAY-2007 16:37:44; Dark ; 50.5; 18; 24Alp PsA ; 1.17; 9700;occ; 101; 0;27248
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19; 6960.0; 17-MAY-2007 16:58:49; Dark ; 53.5; 40; The Sco ; 1.86; 7100;occ; 107; 0;27248
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10; 3740.6; 17-MAY-2007 17:45:45; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;27249
11; 3960.7; 17-MAY-2007 17:49:25; Bright; 36.0; 74; 11Bet Cas ; 2.27; 6600;occ; 72; 0;27249
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11; 3960.8; 17-MAY-2007 19:30:01; Bright; 35.0; 74; 11Bet Cas ; 2.27; 6600;occ; 70; 0;27250
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14; 4873.5; 17-MAY-2007 19:45:14; Dark ; 55.0; 90; 54Alp Peg ; 2.49; 11000;occ; 110; 0;27250
15; 5696.6; 17-MAY-2007 19:58:57; Dark ; 50.5; 18; 24Alp PsA ; 1.17; 9700;occ; 101; 0;27250
16; 5846.4; 17-MAY-2007 20:01:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27250
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 3; 11.4; 18-MAY-2007 01:06:36; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;27254
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 5; 834.4; 18-MAY-2007 01:20:19; Dark ; 44.0; 147; Alp Ara ; 2.88; 26000;occ; 88; 0;27254
 6; 927.0; 18-MAY-2007 01:21:51; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;27254
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11; 1728.7; 18-MAY-2007 01:35:13; Bright; 39.0; 104; 27Bet Lib ; 2.61; 13100;occ; 78; 0;27254
12; 1852.3; 18-MAY-2007 01:37:17; Bright; 48.5; 120; 1Del Oph ; 2.73; 3200;occ; 97; 0;27254
13; 2041.2; 18-MAY-2007 01:40:25; Bright; 42.5; 102; 24Alp Ser ; 2.60; 4250;occ; 85; 0;27254
14; 2378.9; 18-MAY-2007 01:46:03; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;27254
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```

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9; 344.3; 18-MAY-2007 02:52:45; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;27255
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14; 1358.1; 18-MAY-2007 03:09:38; Dark ; 64.0; 16; 21Alp Sco ; 1.02; 3000;occ; 128; 0;27255
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16; 1728.9; 18-MAY-2007 03:15:49; Bright; 38.5; 104; 27Bet Lib ; 2.61; 13100;occ; 77; 0;27255
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19; 2378.8; 18-MAY-2007 03:26:39; Bright; 38.0; 83; ; 2.38; 11000;occ; 76; 0;27255
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4; 1361.0; 18-MAY-2007 19:55:41; Dark ; 55.5; 16; 21Alp Sco ; 1.02; 3000;occ; 111; 0;27265
5; 1512.9; 18-MAY-2007 19:58:13; Bright; 44.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 89; 0;27265
6; 1729.4; 18-MAY-2007 20:01:49; Bright; 38.5; 104; 27Bet Lib ; 2.61; 13100;occ; 77; 0;27265
7; 1850.3; 18-MAY-2007 20:03:50; Bright; 47.0; 120; 1Del Oph ; 2.73; 3200;occ; 94; 0;27265

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5; 841.0; 18-MAY-2007 21:27:37; Dark ; 43.0; 147; Alp Ara ; 2.88; 26000;occ; 86; 0;27266
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14; 2377.2; 18-MAY-2007 21:53:13; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;27266
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11; 1513.2; 18-MAY-2007 23:19:25; Bright; 42.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 85; 0;27267
12; 1729.4; 18-MAY-2007 23:23:01; Bright; 38.5; 104; 27Bet Lib ; 2.61; 13100;occ; 77; 0;27267
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15; 2377.0; 18-MAY-2007 23:33:49; Bright; 37.5; 83; ; 2.38; 11000;occ; 75; 0;27267
16; 3075.6; 18-MAY-2007 23:45:27; Bright; 47.5; 119; 14Eta Dra ; 2.73; 4700;occ; 95; 0;27267
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15; 6873.0; 18-MAY-2007 09:43:21; Dark ; 43.0; 147; Alp Ara ; 2.88; 26000;occ; 86; 0;27258
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12; 5854.6; 18-MAY-2007 11:06:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27259
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6; 3078.9; 18-MAY-2007 12:01:19; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;27260
7; 3735.3; 18-MAY-2007 12:12:15; Bright; 49.5; 89; 5Alp Cep ; 2.45; 8000;occ; 99; 0;27260

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2; 1360.4; 18-MAY-2007 16:34:28; Dark ; 63.5; 16; 21Alp Sco ; 1.02; 3000;occ; 127; 0;27263
3; 1512.8; 18-MAY-2007 16:37:01; Bright; 44.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 89; 0;27263
4; 1729.4; 18-MAY-2007 16:40:37; Bright; 38.5; 104; 27Bet Lib ; 2.61; 13100;occ; 77; 0;27263
5; 1850.7; 18-MAY-2007 16:42:38; Bright; 47.5; 120; 1Del Oph ; 2.73; 3200;occ; 95; 0;27263
6; 2039.2; 18-MAY-2007 16:45:47; Bright; 42.0; 102; 24Alp Ser ; 2.60; 4250;occ; 84; 0;27263
7; 2377.6; 18-MAY-2007 16:51:25; Bright; 39.0; 83; ; 2.38; 11000;occ; 78; 0;27263
8; 3077.6; 18-MAY-2007 17:03:05; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;27263
9; 3734.1; 18-MAY-2007 17:14:02; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;27263
10; 3959.8; 18-MAY-2007 17:17:48; Bright; 37.0; 74; 11Bet Cas ; 2.27; 6600;occ; 74; 0;27263
11; 4520.3; 18-MAY-2007 17:27:08; Dark ; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;27263
12; 4774.4; 18-MAY-2007 17:31:22; Dark ; 43.5; 140; 88Gam Peg ; 2.83; 26000;occ; 87; 0;27263
13; 5707.8; 18-MAY-2007 17:46:56; Dark ; 53.5; 18; 24Alp PsA ; 1.17; 9700;occ; 107; 0;27263
14; 5858.5; 18-MAY-2007 17:49:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27263

```



```

15; 6055.3; 18-MAY-2007 17:52:43; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;27263
16; 6386.7; 18-MAY-2007 17:58:14; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27263
17; 6876.0; 18-MAY-2007 18:06:24; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;27263
18; 6969.3; 18-MAY-2007 18:07:57; Dark ; 54.0; 40; The Sco ; 1.86; 7100;occ; 108; 0;27263
19; 7081.1; 18-MAY-2007 18:09:49; Dark ; 32.5; 25; 35Lam Sco ; 1.62; 28000;occ; 65; 0;27263
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 9; 3077.1; 18-MAY-2007 18:43:41; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;27264
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11; 3959.5; 18-MAY-2007 18:58:23; Bright; 34.5; 74; 11Bet Cas ; 2.27; 6600;occ; 69; 0;27264
12; 4520.5; 18-MAY-2007 19:07:44; Dark ; 43.5; 58; 21Alp And ; 2.07; 11000;occ; 87; 0;27264
13; 4774.7; 18-MAY-2007 19:11:59; Dark ; 42.0; 140; 88Gam Peg ; 2.83; 26000;occ; 84; 0;27264
14; 5708.6; 18-MAY-2007 19:27:32; Dark ; 52.5; 18; 24Alp PsA ; 1.17; 9700;occ; 105; 0;27264
15; 5859.4; 18-MAY-2007 19:30:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27264
16; 6056.1; 18-MAY-2007 19:33:20; Dark ; 42.5; 31; Alp Gru ; 1.73; 15200;occ; 85; 0;27264
17; 6387.3; 18-MAY-2007 19:38:51; Dark ; 45.5; 45; Alp Pav ; 1.94; 26000;occ; 91; 0;27264
18; 6876.4; 18-MAY-2007 19:47:00; Dark ; 44.0; 147; Alp Ara ; 2.88; 26000;occ; 88; 0;27264
19; 6969.8; 18-MAY-2007 19:48:34; Dark ; 50.5; 40; The Sco ; 1.86; 7100;occ; 101; 0;27264
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 3; -70.5; 19-MAY-2007 00:33:37; Dark ; 46.5; 63; Bet Gru ; 2.15; 2800;occ; 93; 0;27267
 4; 22.4; 19-MAY-2007 00:35:10; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;27268
 5; 353.4; 19-MAY-2007 00:40:41; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27268
 6; 842.0; 19-MAY-2007 00:48:49; Dark ; 43.0; 147; Alp Ara ; 2.88; 26000;occ; 86; 0;27268
 7; 935.5; 19-MAY-2007 00:50:23; Dark ; 50.0; 40; The Sco ; 1.86; 7100;occ; 100; 0;27268
 8; 1047.2; 19-MAY-2007 00:52:15; Dark ; 52.0; 25; 35Lam Sco ; 1.62; 28000;occ; 104; 0;27268
 9; 1181.1; 19-MAY-2007 00:54:29; Dark ; 53.5; 75; 26Eps Sco ; 2.29; 4250;occ; 107; 0;27268
10; 1361.7; 19-MAY-2007 00:57:29; Dark ; 58.0; 16; 21Alp Sco ; 1.02; 3000;occ; 116; 0;27268
11; 1513.4; 19-MAY-2007 01:00:01; Bright; 41.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 83; 0;27268
12; 1729.4; 19-MAY-2007 01:03:37; Bright; 38.5; 104; 27Bet Lib ; 2.61; 13100;occ; 77; 0;27268
13; 1849.8; 19-MAY-2007 01:05:37; Bright; 47.0; 120; 1Del Oph ; 2.73; 3200;occ; 94; 0;27268
14; 2037.9; 19-MAY-2007 01:08:45; Bright; 41.5; 102; 24Alp Ser ; 2.60; 4250;occ; 83; 0;27268
15; 2376.8; 19-MAY-2007 01:14:24; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;27268
16; 3075.1; 19-MAY-2007 01:26:03; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;27268
17; 3731.6; 19-MAY-2007 01:36:59; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;27268
18; 3959.2; 19-MAY-2007 01:40:47; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;27268
19; 4521.0; 19-MAY-2007 01:50:08; Dark ; 45.5; 58; 21Alp And ; 2.07; 11000;occ; 91; 0;27268
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 2; -172.8; 19-MAY-2007 02:12:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27268
 3; -69.8; 19-MAY-2007 02:14:14; Dark ; 46.0; 63; Bet Gru ; 2.15; 2800;occ; 92; 0;27268
 4; 23.3; 19-MAY-2007 02:15:47; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;27269
 5; 354.2; 19-MAY-2007 02:21:17; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;27269
 6; 842.7; 19-MAY-2007 02:29:26; Dark ; 42.5; 147; Alp Ara ; 2.88; 26000;occ; 85; 0;27269
 7; 936.3; 19-MAY-2007 02:31:00; Dark ; 50.5; 40; The Sco ; 1.86; 7100;occ; 101; 0;27269
 8; 1047.9; 19-MAY-2007 02:32:51; Dark ; 49.5; 25; 35Lam Sco ; 1.62; 28000;occ; 99; 0;27269
 9; 1181.7; 19-MAY-2007 02:35:05; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;27269
10; 1362.1; 19-MAY-2007 02:38:05; Dark ; 54.0; 16; 21Alp Sco ; 1.02; 3000;occ; 108; 0;27269
11; 1513.6; 19-MAY-2007 02:40:37; Bright; 45.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 90; 0;27269
12; 1729.5; 19-MAY-2007 02:44:13; Bright; 38.0; 104; 27Bet Lib ; 2.61; 13100;occ; 76; 0;27269
13; 1849.7; 19-MAY-2007 02:46:13; Bright; 47.0; 120; 1Del Oph ; 2.73; 3200;occ; 94; 0;27269
14; 2037.6; 19-MAY-2007 02:49:21; Bright; 42.0; 102; 24Alp Ser ; 2.60; 4250;occ; 84; 0;27269
15; 2376.7; 19-MAY-2007 02:55:00; Bright; 39.0; 83; ; 2.38; 11000;occ; 78; 0;27269
16; 3074.7; 19-MAY-2007 03:06:38; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;27269
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 3; -1514.5; 19-MAY-2007 03:30:45; Dark ; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;27269
 4; -1259.5; 19-MAY-2007 03:35:00; Dark ; 42.0; 140; 88Gam Peg ; 2.83; 26000;occ; 84; 0;27269

```

```

5; -323.1; 19-MAY-2007 03:50:36; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;27269
6; -171.9; 19-MAY-2007 03:53:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27269
7; -69.0; 19-MAY-2007 03:54:50; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;27269
8; 24.2; 19-MAY-2007 03:56:23; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;27270
9; 355.0; 19-MAY-2007 04:01:54; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;27270
10; 843.3; 19-MAY-2007 04:10:03; Dark ; 42.0; 147; Alp Ara ; 2.88; 26000;occ; 84; 0;27270
11; 937.0; 19-MAY-2007 04:11:36; Dark ; 51.0; 40; The Sco ; 1.86; 7100;occ; 102; 0;27270
12; 1048.6; 19-MAY-2007 04:13:28; Dark ; 51.0; 25; 35Lam Sco ; 1.62; 28000;occ; 102; 0;27270
13; 1182.2; 19-MAY-2007 04:15:42; Dark ; 48.5; 75; 26Eps Sco ; 2.29; 4250;occ; 97; 0;27270
14; 1362.5; 19-MAY-2007 04:18:42; Dark ; 62.5; 16; 21Alp Sco ; 1.02; 3000;occ; 125; 0;27270
15; 1513.9; 19-MAY-2007 04:21:13; Bright; 44.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 89; 0;27270
16; 1729.7; 19-MAY-2007 04:24:49; Bright; 37.5; 104; 27Bet Lib ; 2.61; 13100;occ; 75; 0;27270
17; 1849.6; 19-MAY-2007 04:26:49; Bright; 47.0; 120; 1Del Oph ; 2.73; 3200;occ; 94; 0;27270
18; 2037.7; 19-MAY-2007 04:29:57; Bright; 42.5; 102; 24Alp Ser ; 2.60; 4250;occ; 85; 0;27270
19; 2376.7; 19-MAY-2007 04:35:36; Bright; 53.5; 83; ; 2.38; 11000;occ; 107; 0;27270
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5; -322.3; 19-MAY-2007 05:31:13; Dark ; 50.5; 18; 24Alp PsA ; 1.17; 9700;occ; 101; 0;27270
6; -170.9; 19-MAY-2007 05:33:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27270
7; -68.3; 19-MAY-2007 05:35:27; Dark ; 40.5; 63; Bet Gru ; 2.15; 2800;occ; 81; 0;27270
8; 25.0; 19-MAY-2007 05:37:00; Dark ; 42.5; 31; Alp Gru ; 1.73; 15200;occ; 85; 0;27271
9; 355.5; 19-MAY-2007 05:42:31; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;27271
10; 843.9; 19-MAY-2007 05:50:39; Dark ; 42.5; 147; Alp Ara ; 2.88; 26000;occ; 85; 0;27271
11; 937.6; 19-MAY-2007 05:52:13; Dark ; 50.0; 40; The Sco ; 1.86; 7100;occ; 100; 0;27271
12; 1049.2; 19-MAY-2007 05:54:04; Dark ; 53.0; 25; 35Lam Sco ; 1.62; 28000;occ; 106; 0;27271
13; 1182.7; 19-MAY-2007 05:56:18; Dark ; 51.0; 75; 26Eps Sco ; 2.29; 4250;occ; 102; 0;27271
14; 1362.7; 19-MAY-2007 05:59:18; Dark ; 55.5; 16; 21Alp Sco ; 1.02; 3000;occ; 111; 0;27271
15; 1514.0; 19-MAY-2007 06:01:49; Bright; 42.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 85; 0;27271
16; 1729.9; 19-MAY-2007 06:05:25; Bright; 38.5; 104; 27Bet Lib ; 2.61; 13100;occ; 77; 0;27271
17; 1849.4; 19-MAY-2007 06:07:25; Bright; 47.5; 120; 1Del Oph ; 2.73; 3200;occ; 95; 0;27271
18; 2037.3; 19-MAY-2007 06:10:33; Bright; 42.0; 102; 24Alp Ser ; 2.60; 4250;occ; 84; 0;27271
19; 2376.7; 19-MAY-2007 06:16:12; Bright; 38.0; 83; ; 2.38; 11000;occ; 76; 0;27271
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3; 1186.4; 19-MAY-2007 21:01:45; Dark ; 48.5; 75; 26Eps Sco ; 2.29; 4250;occ; 97; 0;27280
4; 1365.3; 19-MAY-2007 21:04:44; Dark ; 53.5; 16; 21Alp Sco ; 1.02; 3000;occ; 107; 0;27280
5; 1515.5; 19-MAY-2007 21:07:14; Bright; 42.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 85; 0;27280
6; 1622.7; 19-MAY-2007 21:09:02; Bright; 36.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 72; 0;27280
7; 1730.2; 19-MAY-2007 21:10:49; Bright; 38.0; 104; 27Bet Lib ; 2.61; 13100;occ; 76; 0;27280
8; 2234.8; 19-MAY-2007 21:19:14; Bright; 35.0; 3; 16Alp Boo ; -0.05; 4250;occ; 70; 0;27280
9; 2375.4; 19-MAY-2007 21:21:34; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;27280
10; 2564.5; 19-MAY-2007 21:24:43; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;27280
11; 2746.1; 19-MAY-2007 21:27:45; Bright; 34.5; 39; 85Eta UMa ; 1.85; 24000;occ; 69; 0;27280
12; 3069.9; 19-MAY-2007 21:33:09; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;27280
13; 3177.7; 19-MAY-2007 21:34:57; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;27280
14; 3446.4; 19-MAY-2007 21:39:25; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27280
15; 3938.2; 19-MAY-2007 21:47:37; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;27280
16; 4011.2; 19-MAY-2007 21:48:50; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;27280
17; 4523.1; 19-MAY-2007 21:57:22; Dark ; 44.0; 58; 21Alp And ; 2.07; 11000;occ; 88; 0;27280
18; 4779.7; 19-MAY-2007 22:01:39; Dark ; 43.0; 140; 88Gam Peg ; 2.83; 26000;occ; 86; 0;27280
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2; -313.4; 19-MAY-2007 22:17:21; Dark ; 54.5; 18; 24Alp PsA ; 1.17; 9700;occ; 109; 0;27280
3; -214.2; 19-MAY-2007 22:19:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27280
4; -61.6; 19-MAY-2007 22:21:33; Dark ; 57.0; 63; Bet Gru ; 2.15; 2800;occ; 114; 0;27280
5; 32.9; 19-MAY-2007 22:23:08; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;27281
6; 124.4; 19-MAY-2007 22:24:39; Dark ; 40.0; 148; Alp Tuc ; 2.88; 4100;occ; 80; 0;27281
7; 362.6; 19-MAY-2007 22:28:37; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27281
8; 783.5; 19-MAY-2007 22:35:38; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;27281
9; 943.5; 19-MAY-2007 22:38:18; Dark ; 50.0; 40; The Sco ; 1.86; 7100;occ; 100; 0;27281
10; 1186.8; 19-MAY-2007 22:42:22; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;27281
11; 1365.5; 19-MAY-2007 22:45:20; Dark ; 56.0; 16; 21Alp Sco ; 1.02; 3000;occ; 112; 0;27281

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13; 1622.8; 19-MAY-2007 22:49:38; Bright; 37.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 74; 0;27281
14; 1730.2; 19-MAY-2007 22:51:25; Bright; 38.0; 104; 27Bet Lib ; 2.61; 13100;occ; 76; 0;27281
15; 2234.8; 19-MAY-2007 22:59:49; Bright; 35.5; 3; 16Alp Boo ; -0.05; 4250;occ; 71; 0;27281
16; 2375.3; 19-MAY-2007 23:02:10; Bright; 36.0; 83; ; 2.38; 11000;occ; 72; 0;27281
17; 2564.2; 19-MAY-2007 23:05:19; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70; 0;27281
18; 2746.1; 19-MAY-2007 23:08:21; Bright; 33.5; 39; 85Eta UMa ; 1.85; 24000;occ; 67; 0;27281
19; 3069.6; 19-MAY-2007 23:13:44; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;27281
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21; 3446.3; 19-MAY-2007 23:20:01; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;27281
22; 3938.1; 19-MAY-2007 23:28:13; Bright; 45.5; 76; 27Gam Cas ; 2.30; 30000;occ; 91; 0;27281
23; 4011.2; 19-MAY-2007 23:29:26; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;27281
24; 4523.4; 19-MAY-2007 23:37:58; Dark ; 44.0; 58; 21Alp And ; 2.07; 11000;occ; 88; 0;27281
25; 4780.0; 19-MAY-2007 23:42:15; Dark ; 44.5; 140; 88Gam Peg ; 2.83; 26000;occ; 89; 0;27281
26; 5305.4; 19-MAY-2007 23:51:00; Dark ; 7.5; 52; 16Bet Cet ; 2.04; 4500;occ; 15; 0;27281
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13; 1183.1; 19-MAY-2007 07:36:54; Dark ; 52.5; 75; 26Eps Sco ; 2.29; 4250;occ; 105; 0;27272
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16; 6974.7; 19-MAY-2007 09:13:26; Dark ; 48.5; 40; The Sco ; 1.86; 7100;occ; 97; 0;27272
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4; 1515.1; 19-MAY-2007 17:46:02; Bright; 44.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 88; 0;27278
5; 1730.1; 19-MAY-2007 17:49:37; Bright; 38.0; 104; 27Bet Lib ; 2.61; 13100;occ; 76; 0;27278
6; 1848.2; 19-MAY-2007 17:51:35; Bright; 46.0; 120; 1Del Oph ; 2.73; 3200;occ; 92; 0;27278
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13; 4778.8; 19-MAY-2007 18:40:26; Dark ; 45.0; 140; 88Gam Peg ; 2.83; 26000;occ; 90; 0;27278
14; 5720.8; 19-MAY-2007 18:56:08; Dark ; 51.5; 18; 24Alp PsA ; 1.17; 9700;occ; 103; 0;27278
15; 5872.7; 19-MAY-2007 18:58:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27278
16; 5973.1; 19-MAY-2007 19:00:20; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;27278
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2; 361.9; 19-MAY-2007 20:48:01; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;27280
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6; 364.1; 20-MAY-2007 01:49:51; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;27283
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12; 2234.9; 20-MAY-2007 02:21:01; Bright; 35.5; 3; 16Alp Boo ; -0.05; 4250;occ; 71; 0;27283
13; 2375.1; 20-MAY-2007 02:23:22; Bright; 38.5; 83; ; 2.38; 11000;occ; 77; 0;27283
14; 2564.1; 20-MAY-2007 02:26:31; Bright; 35.5; 180; 27Gam Boo ; 3.04; 8000;occ; 71; 0;27283
15; 2746.2; 20-MAY-2007 02:29:33; Bright; 34.5; 39; 85Eta UMa ; 1.85; 24000;occ; 69; 0;27283
16; 3068.7; 20-MAY-2007 02:34:55; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;27283
17; 3177.4; 20-MAY-2007 02:36:44; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;27283
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3; -1512.2; 20-MAY-2007 02:59:10; Dark ; 46.0; 58; 21Alp And ; 2.07; 11000;occ; 92; 0;27283
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13; 1188.2; 20-MAY-2007 03:44:11; Dark ; 47.0; 75; 26Eps Sco ; 2.29; 4250;occ; 94; 0;27284
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23; 3177.5; 20-MAY-2007 04:17:20; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27284
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7; -212.2; 20-MAY-2007 05:01:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27284
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16; 1623.5; 20-MAY-2007 05:32:02; Bright; 39.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 79; 0;27285
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22; 3067.9; 20-MAY-2007 05:56:06; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0;27285
23; 3177.3; 20-MAY-2007 05:57:56; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;27285
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 7; 2032.5; 20-MAY-2007 20:44:14; Bright; 36.0; 102; 24Alp Ser ; 2.60; 4250;occ; 72; 0;27294
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 13; 1731.1; 20-MAY-2007 22:19:49; Bright; 37.5; 104; 27Bet Lib ; 2.61; 13100;occ; 75; 0;27295
 14; 2032.2; 20-MAY-2007 22:24:50; Bright; 36.0; 102; 24Alp Ser ; 2.60; 4250;occ; 72; 0;27295
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 12; 1624.9; 20-MAY-2007 23:58:39; Bright; 37.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 74; 0;27296
 13; 1731.3; 21-MAY-2007 00:00:25; Bright; 37.5; 104; 27Bet Lib ; 2.61; 13100;occ; 75; 0;27296
 14; 2032.1; 21-MAY-2007 00:05:26; Bright; 40.5; 102; 24Alp Ser ; 2.60; 4250;occ; 81; 0;27296
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 22; 4010.8; 21-MAY-2007 00:38:24; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;27296
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 9; 2563.4; 20-MAY-2007 17:31:53; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;27292
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11; 3176.6; 20-MAY-2007 17:42:07; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;27292
12; 3446.5; 20-MAY-2007 17:46:36; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27292
13; 3938.3; 20-MAY-2007 17:54:48; Bright; 44.5; 76; 27Gam Cas ; 2.30; 30000;occ; 89; 0;27292
14; 4011.3; 20-MAY-2007 17:56:01; Bright; 34.0; 68; 18Alp Cas ; 2.22; 4500;occ; 68; 0;27292
15; 4525.3; 20-MAY-2007 18:04:35; Dark ; 44.0; 58; 21Alp And ; 2.07; 11000;occ; 88; 0;27292
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17; 5309.8; 20-MAY-2007 18:17:40; Dark ; 44.0; 52; 16Bet Cet ; 2.04; 4500;occ; 88; 0;27292
18; 5733.5; 20-MAY-2007 18:24:43; Dark ; 60.5; 18; 24Alp PsA ; 1.17; 9700;occ; 121; 0;27292
19; 5827.7; 20-MAY-2007 18:26:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27292
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21; 6078.7; 20-MAY-2007 18:30:29; Dark ; 42.5; 31; Alp Gru ; 1.73; 15200;occ; 85; 0;27292
22; 6407.2; 20-MAY-2007 18:35:57; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;27292
23; 6825.3; 20-MAY-2007 18:42:55; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;27292
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11; 3064.5; 20-MAY-2007 19:20:51; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;27293
12; 3176.5; 20-MAY-2007 19:22:43; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;27293
13; 3446.6; 20-MAY-2007 19:27:13; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27293

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6; 1732.1; 21-MAY-2007 20:07:37; Bright; 37.5; 104; 27Bet Lib ; 2.61; 13100;occ; 75; 0;27308
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12; 3175.0; 21-MAY-2007 20:31:40; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;27308
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16; 4527.9; 21-MAY-2007 20:54:13; Dark ; 45.5; 58; 21Alp And ; 2.07; 11000;occ; 91; 0;27308
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4; -41.9; 21-MAY-2007 21:18:39; Dark ; 56.5; 63; Bet Gru ; 2.15; 2800;occ; 113; 0;27308

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5; 55.8; 21-MAY-2007 21:20:17; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;27309
6; 382.3; 21-MAY-2007 21:25:43; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;27309
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9; 1198.2; 21-MAY-2007 21:39:19; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;27309
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3; -41.1; 21-MAY-2007 22:59:16; Dark ; 59.0; 63; Bet Gru ; 2.15; 2800;occ; 118; 0;27309
4; 56.4; 21-MAY-2007 23:00:53; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;27310
5; 383.0; 21-MAY-2007 23:06:20; Dark ; 44.5; 45; Alp Pav ; 1.94; 26000;occ; 89; 0;27310
6; 797.0; 21-MAY-2007 23:13:14; Dark ; 47.5; 141; Bet Ara ; 2.84; 4600;occ; 95; 0;27310
7; 960.4; 21-MAY-2007 23:15:57; Dark ; 49.5; 40; The Sco ; 1.86; 7100;occ; 99; 0;27310
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2; 2235.7; 21-MAY-2007 08:31:49; Bright; 36.5; 3; 16Alp Boo ; -0.05; 4250;occ; 73; 0;27301
3; 2373.2; 21-MAY-2007 08:34:07; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;27301
4; 2562.5; 21-MAY-2007 08:37:16; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;27301
5; 3061.1; 21-MAY-2007 08:45:35; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;27301
6; 3175.7; 21-MAY-2007 08:47:29; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;27301

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8; 3938.1; 21-MAY-2007 09:00:12; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;27301
9; 4010.7; 21-MAY-2007 09:01:24; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;27301
10; 4526.6; 21-MAY-2007 09:10:00; Dark ; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;27301
11; 4786.9; 21-MAY-2007 09:14:20; Dark ; 45.5; 140; 88Gam Peg ; 2.83; 26000;occ; 91; 0;27301
12; 5313.2; 21-MAY-2007 09:23:07; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;27301
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14; 5832.2; 21-MAY-2007 09:31:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27301
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16; 6413.4; 21-MAY-2007 09:41:27; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27301
17; 6829.4; 21-MAY-2007 09:48:23; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;27301
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22; 7661.8; 21-MAY-2007 10:02:15; Bright; 36.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 73; 0;27301
23; 7767.6; 21-MAY-2007 10:04:01; Bright; 36.0; 104; 27Bet Lib ; 2.61; 13100;occ; 72; 0;27301

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3; 2235.7; 21-MAY-2007 10:12:25; Bright; 36.5; 3; 16Alp Boo ; -0.05; 4250;occ; 73; 0;27302
4; 2373.1; 21-MAY-2007 10:14:42; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;27302
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6; 3060.6; 21-MAY-2007 10:26:10; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;27302
7; 3175.6; 21-MAY-2007 10:28:05; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27302
8; 3446.4; 21-MAY-2007 10:32:36; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;27302
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12; 4787.2; 21-MAY-2007 10:54:57; Dark ; 44.0; 140; 88Gam Peg ; 2.83; 26000;occ; 88; 0;27302
13; 5313.5; 21-MAY-2007 11:03:43; Dark ; 43.0; 52; 16Bet Cet ; 2.04; 4500;occ; 86; 0;27302
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7; 3175.5; 21-MAY-2007 12:08:41; Bright; 53.0; 60; 7Bet UMi ; 2.08; 3950;occ; 106; 0;27303
8; 3446.5; 21-MAY-2007 12:13:12; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27303
9; 3937.8; 21-MAY-2007 12:21:23; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;27303
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19; 6830.3; 21-MAY-2007 13:09:36; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;27303
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21; 7232.1; 21-MAY-2007 13:16:17; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;27303
22; 7407.9; 21-MAY-2007 13:19:13; Dark ; 60.0; 16; 21Alp Sco ; 1.02; 3000;occ; 120; 0;27303
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4; 1732.1; 21-MAY-2007 16:46:25; Bright; 38.0; 104; 27Bet Lib ; 2.61; 13100;occ; 76; 0;27306
5; 2030.3; 21-MAY-2007 16:51:23; Bright; 40.0; 102; 24Alp Ser ; 2.60; 4250;occ; 80; 0;27306
6; 2236.0; 21-MAY-2007 16:54:49; Bright; 34.5; 3; 16Alp Boo ;-0.05; 4250;occ; 69; 0;27306
7; 2372.8; 21-MAY-2007 16:57:06; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;27306
8; 2562.2; 21-MAY-2007 17:00:15; Bright; 34.5; 180; 27Gam Boo ; 3.04; 8000;occ; 69; 0;27306
9; 3059.1; 21-MAY-2007 17:08:32; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0;27306
10; 3175.3; 21-MAY-2007 17:10:28; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27306
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21; 6417.0; 21-MAY-2007 18:04:30; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27306
22; 6831.8; 21-MAY-2007 18:11:25; Dark ; 40.5; 141; Bet Ara ; 2.84; 4600;occ; 81; 0;27306
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4; 2235.8; 21-MAY-2007 13:33:37; Bright; 34.5; 3; 16Alp Boo ;-0.05; 4250;occ; 69; 0;27304
5; 2373.0; 21-MAY-2007 13:35:54; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;27304
6; 2562.2; 21-MAY-2007 13:39:03; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;27304
7; 3059.8; 21-MAY-2007 13:47:21; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;27304
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9; 3446.5; 21-MAY-2007 13:53:48; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27304
10; 3938.1; 21-MAY-2007 14:01:59; Bright; 53.0; 76; 27Gam Cas ; 2.30; 30000;occ; 106; 0;27304
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22; 7232.7; 21-MAY-2007 14:56:54; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;27304
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6; 2236.0; 21-MAY-2007 15:14:13; Bright; 35.0; 3; 16Alp Boo ;-0.05; 4250;occ; 70; 0;27305
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9; 3059.4; 21-MAY-2007 15:27:56; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;27305
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6; 1732.1; 21-MAY-2007 18:27:01; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;27307
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11; 4010.2; 22-MAY-2007 15:12:10; Bright; 52.0; 68; 18Alp Cas ; 2.22; 4500;occ; 104; 0;27319
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13; 4793.3; 22-MAY-2007 15:25:13; Dark ; 43.5; 140; 88Gam Peg ; 2.83; 26000;occ; 87; 0;27319
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13; 4010.2; 22-MAY-2007 16:52:46; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;27320
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2; 1733.9; 23-MAY-2007 10:41:25; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;27331
3; 2026.0; 23-MAY-2007 10:46:18; Bright; 39.5; 102; 24Alp Ser ; 2.60; 4250;occ; 79; 0;27331
4; 2370.8; 23-MAY-2007 10:52:02; Bright; 37.5; 83; ; 2.38; 11000;occ; 75; 0;27331
5; 2560.6; 23-MAY-2007 10:55:12; Bright; 34.0; 180; 27Gam Boo ; 3.04; 8000;occ; 68; 0;27331
6; 3049.0; 23-MAY-2007 11:03:20; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;27331
7; 3173.2; 23-MAY-2007 11:05:25; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;27331
8; 3446.6; 23-MAY-2007 11:09:58; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27331
9; 3937.2; 23-MAY-2007 11:18:09; Bright; 34.0; 76; 27Gam Cas ; 2.30; 30000;occ; 68; 0;27331
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11; 4531.9; 23-MAY-2007 11:28:03; Dark ; 46.0; 58; 21Alp And ; 2.07; 11000;occ; 92; 0;27331
12; 4797.2; 23-MAY-2007 11:32:29; Dark ; 45.5; 140; 88Gam Peg ; 2.83; 26000;occ; 91; 0;27331
13; 5325.6; 23-MAY-2007 11:41:17; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;27331
14; 5847.9; 23-MAY-2007 11:49:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27331
15; 6010.8; 23-MAY-2007 11:52:42; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;27331
16; 6110.9; 23-MAY-2007 11:54:22; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;27331
17; 6434.6; 23-MAY-2007 11:59:46; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;27331
18; 6843.1; 23-MAY-2007 12:06:35; Dark ; 42.0; 141; Bet Ara ; 2.84; 4600;occ; 84; 0;27331
19; 7008.7; 23-MAY-2007 12:09:20; Dark ; 48.5; 40; The Sco ; 1.86; 7100;occ; 97; 0;27331
20; 7243.0; 23-MAY-2007 12:13:14; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;27331
21; 7415.4; 23-MAY-2007 12:16:07; Dark ; 59.0; 16; 21Alp Sco ; 1.02; 3000;occ; 118; 0;27331
22; 7560.0; 23-MAY-2007 12:18:32; Bright; 40.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 81; 0;27331
23; 7666.0; 23-MAY-2007 12:20:18; Bright; 16.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 33; 0;27331

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2;	1734.1;	23-MAY-2007	12:22:02;	Bright;	37.0;	104;	27Bet Lib	;	2.61;	13100;occ;	74;	0;	27332
3;	2025.9;	23-MAY-2007	12:26:53;	Bright;	39.5;	102;	24Alp Ser	;	2.60;	4250;occ;	79;	0;	27332
4;	2370.7;	23-MAY-2007	12:32:38;	Bright;	36.0;	83;		;	2.38;	11000;occ;	72;	0;	27332
5;	2560.6;	23-MAY-2007	12:35:48;	Bright;	34.0;	180;	27Gam Boo	;	3.04;	8000;occ;	68;	0;	27332
6;	3048.6;	23-MAY-2007	12:43:56;	Bright;	40.0;	119;	14Eta Dra	;	2.73;	4700;occ;	80;	0;	27332
7;	3173.1;	23-MAY-2007	12:46:01;	Bright;	35.0;	60;	7Bet UMi	;	2.08;	3950;occ;	70;	0;	27332
8;	3446.6;	23-MAY-2007	12:50:34;	Bright;	33.5;	49;	1Alp UMi	;	1.99;	6300;occ;	67;	0;	27332
9;	3937.2;	23-MAY-2007	12:58:45;	Bright;	37.5;	76;	27Gam Cas	;	2.30;	30000;occ;	75;	0;	27332
10;	4009.5;	23-MAY-2007	12:59:57;	Bright;	46.5;	68;	18Alp Cas	;	2.22;	4500;occ;	93;	0;	27332
11;	4532.2;	23-MAY-2007	13:08:40;	Dark	;	58;	21Alp And	;	2.07;	11000;occ;	93;	0;	27332
12;	4797.6;	23-MAY-2007	13:13:05;	Dark	;	140;	88Gam Peg	;	2.83;	26000;occ;	90;	0;	27332
13;	5326.1;	23-MAY-2007	13:21:53;	Dark	;	52;	16Bet Cet	;	2.04;	4500;occ;	87;	0;	27332
14;	5848.5;	23-MAY-2007	13:30:36;	Dark	;	0;		;	0.00;	0;occ;	119;	0;	27332
15;	6011.6;	23-MAY-2007	13:33:19;	Dark	;	63;	Bet Gru	;	2.15;	2800;occ;	114;	0;	27332
16;	6111.7;	23-MAY-2007	13:34:59;	Dark	;	31;	Alp Gru	;	1.73;	15200;occ;	98;	0;	27332
17;	6435.3;	23-MAY-2007	13:40:23;	Dark	;	45;	Alp Pav	;	1.94;	26000;occ;	95;	0;	27332
18;	6843.6;	23-MAY-2007	13:47:11;	Dark	;	141;	Bet Ara	;	2.84;	4600;occ;	82;	0;	27332
19;	7009.4;	23-MAY-2007	13:49:57;	Dark	;	40;	The Sco	;	1.86;	7100;occ;	94;	0;	27332
20;	7243.5;	23-MAY-2007	13:53:51;	Dark	;	75;	26Eps Sco	;	2.29;	4250;occ;	99;	0;	27332
21;	7415.7;	23-MAY-2007	13:56:43;	Dark	;	16;	21Alp Sco	;	1.02;	3000;occ;	119;	0;	27332

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2;	1630.4;	23-MAY-2007	14:00:54;	Bright;	35.5;	122;	9Alp2Lib	;	2.75;	9700;occ;	71;	0;	27333	
3;	1734.1;	23-MAY-2007	14:02:37;	Bright;	37.5;	104;	27Bet Lib	;	2.61;	13100;occ;	75;	0;	27333	
4;	2025.8;	23-MAY-2007	14:07:29;	Bright;	39.5;	102;	24Alp Ser	;	2.60;	4250;occ;	79;	0;	27333	
5;	2370.8;	23-MAY-2007	14:13:14;	Bright;	36.0;	83;		;	2.38;	11000;occ;	72;	0;	27333	
6;	2560.6;	23-MAY-2007	14:16:24;	Bright;	35.0;	180;	27Gam Boo	;	3.04;	8000;occ;	70;	0;	27333	
7;	3048.3;	23-MAY-2007	14:24:32;	Bright;	58.0;	119;	14Eta Dra	;	2.73;	4700;occ;	116;	0;	27333	
8;	3173.1;	23-MAY-2007	14:26:36;	Bright;	38.5;	60;	7Bet UMi	;	2.08;	3950;occ;	77;	0;	27333	
9;	3446.7;	23-MAY-2007	14:31:10;	Bright;	32.0;	49;	1Alp UMi	;	1.99;	6300;occ;	64;	0;	27333	
10;	3937.4;	23-MAY-2007	14:39:21;	Bright;	41.0;	76;	27Gam Cas	;	2.30;	30000;occ;	82;	0;	27333	
11;	4009.6;	23-MAY-2007	14:40:33;	Bright;	37.0;	68;	18Alp Cas	;	2.22;	4500;occ;	74;	0;	27333	
12;	4532.4;	23-MAY-2007	14:49:16;	Dark	;	58;	21Alp And	;	2.07;	11000;occ;	90;	0;	27333	
13;	4798.2;	23-MAY-2007	14:53:41;	Dark	;	140;	88Gam Peg	;	2.83;	26000;occ;	91;	0;	27333	
14;	5326.7;	23-MAY-2007	15:02:30;	Dark	;	52;	16Bet Cet	;	2.04;	4500;occ;	85;	0;	27333	
15;	5849.1;	23-MAY-2007	15:11:12;	Dark	;	0;		;	0.00;	0;occ;	119;	0;	27333	
16;	6012.4;	23-MAY-2007	15:13:56;	Dark	;	63;	Bet Gru	;	2.15;	2800;occ;	110;	0;	27333	
17;	6112.6;	23-MAY-2007	15:15:36;	Dark	;	31;	Alp Gru	;	1.73;	15200;occ;	89;	0;	27333	
18;	6436.1;	23-MAY-2007	15:20:59;	Dark	;	45;	Alp Pav	;	1.94;	26000;occ;	84;	0;	27333	
19;	6844.0;	23-MAY-2007	15:27:47;	Dark	;	141;	Bet Ara	;	2.84;	4600;occ;	85;	0;	27333	
20;	7009.9;	23-MAY-2007	15:30:33;	Dark	;	40;	The Sco	;	1.86;	7100;occ;	107;	0;	27333	
21;	7122.7;	23-MAY-2007	15:32:26;	Dark	;	115;	34Ups Sco	;	2.70;	26000;occ;	52;	0;	27333	
22;	7244.0;	23-MAY-2007	15:34:27;	Dark	;	75;	26Eps Sco	;	2.29;	4250;occ;	98;	0;	27333	
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2;	1524.4;	23-MAY-2007	15:39:44;	Bright;	40.5;	97;	8Bet1Sco	;	2.56;	30000;occ;	81;	0;	27334	
3;	1631.7;	23-MAY-2007	15:41:31;	Bright;	34.5;	122;	9Alp2Lib	;	2.75;	9700;occ;	69;	0;	27334	
4;	1734.2;	23-MAY-2007	15:43:13;	Bright;	36.5;	104;	27Bet Lib	;	2.61;	13100;occ;	73;	0;	27334	
5;	2025.7;	23-MAY-2007	15:48:05;	Bright;	39.5;	102;	24Alp Ser	;	2.60;	4250;occ;	79;	0;	27334	
6;	2370.7;	23-MAY-2007	15:53:50;	Bright;	36.0;	83;		;	2.38;	11000;occ;	72;	0;	27334	
7;	2560.7;	23-MAY-2007	15:57:00;	Bright;	35.0;	180;	27Gam Boo	;	3.04;	8000;occ;	70;	0;	27334	
8;	3047.9;	23-MAY-2007	16:05:07;	Bright;	40.0;	119;	14Eta Dra	;	2.73;	4700;occ;	80;	0;	27334	
9;	3173.0;	23-MAY-2007	16:07:12;	Bright;	37.5;	60;	7Bet UMi	;	2.08;	3950;occ;	75;	0;	27334	
10;	3446.7;	23-MAY-2007	16:11:46;	Bright;	35.5;	49;	1Alp UMi	;	1.99;	6300;occ;	71;	0;	27334	
11;	3937.3;	23-MAY-2007	16:19:57;	Bright;	37.0;	76;	27Gam Cas	;	2.30;	30000;occ;	74;	0;	27334	
12;	4009.8;	23-MAY-2007	16:21:09;	Bright;	55.0;	68;	18Alp Cas	;	2.22;	4500;occ;	110;	0;	27334	
13;	4532.4;	23-MAY-2007	16:29:52;	Dark	;	58;	21Alp And	;	2.07;	11000;occ;	91;	0;	27334	
14;	4798.6;	23-MAY-2007	16:34:18;	Dark	;	140;	88Gam Peg	;	2.83;	26000;occ;	91;	0;	27334	
15;	5327.0;	23-MAY-2007	16:43:06;	Dark	;	52;	16Bet Cet	;	2.04;	4500;occ;	86;	0;	27334	
16;	5849.7;	23-MAY-2007	16:51:49;	Dark	;	0;		;	0.00;	0;occ;	119;	0;	27334	
17;	6013.2;	23-MAY-2007	16:54:32;	Dark	;	63;	Bet Gru	;	2.15;	2800;occ;	99;	0;	27334	
18;	6113.5;	23-MAY-2007	16:56:13;	Dark	;	31;	Alp Gru	;	1.73;	15200;occ;	90;	0;	27334	
19;	6436.8;	23-MAY-2007	17:01:36;	Dark	;	45;	Alp Pav	;	1.94;	26000;occ;	84;	0;	27334	
20;	6844.6;	23-MAY-2007	17:08:24;	Dark	;	141;	Bet Ara	;	2.84;	4600;occ;	79;	0;	27334	
21;	7010.5;	23-MAY-2007	17:11:10;	Dark	;	40;	The Sco	;	1.86;	7100;occ;	102;	0;	27334	

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3; 1380.4; 23-MAY-2007 17:17:56; Dark ; 59.0; 16; 21Alp Sco ; 1.02; 3000;occ; 118; 0;27335
4; 1524.5; 23-MAY-2007 17:20:20; Bright; 40.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 81; 0;27335
5; 1640.1; 23-MAY-2007 17:22:15; Bright; 26.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 53; 0;27335
6; 1734.5; 23-MAY-2007 17:23:50; Bright; 37.5; 104; 27Bet Lib ; 2.61; 13100;occ; 75; 0;27335
7; 2025.5; 23-MAY-2007 17:28:41; Bright; 39.5; 102; 24Alp Ser ; 2.60; 4250;occ; 79; 0;27335
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10; 3047.4; 23-MAY-2007 17:45:43; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;27335
11; 3172.9; 23-MAY-2007 17:47:48; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;27335
12; 3446.6; 23-MAY-2007 17:52:22; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27335
13; 3937.1; 23-MAY-2007 18:00:32; Bright; 34.0; 76; 27Gam Cas ; 2.30; 30000;occ; 68; 0;27335
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16; 4799.0; 23-MAY-2007 18:14:54; Dark ; 44.0; 140; 88Gam Peg ; 2.83; 26000;occ; 88; 0;27335
17; 5327.4; 23-MAY-2007 18:23:43; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;27335
18; 5850.2; 23-MAY-2007 18:32:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27335
19; 6013.9; 23-MAY-2007 18:35:09; Dark ; 59.0; 63; Bet Gru ; 2.15; 2800;occ; 118; 0;27335
20; 6114.3; 23-MAY-2007 18:36:50; Dark ; 44.0; 31; Alp Gru ; 1.73; 15200;occ; 88; 0;27335
21; 6437.5; 23-MAY-2007 18:42:13; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27335
22; 6845.0; 23-MAY-2007 18:49:00; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;27335
23; 7011.1; 23-MAY-2007 18:51:46; Dark ; 31.0; 40; The Sco ; 1.86; 7100;occ; 62; 0;27335
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3; 1208.7; 23-MAY-2007 18:55:40; Dark ; 48.5; 75; 26Eps Sco ; 2.29; 4250;occ; 97; 0;27336
4; 1380.6; 23-MAY-2007 18:58:32; Dark ; 60.0; 16; 21Alp Sco ; 1.02; 3000;occ; 120; 0;27336
5; 1524.7; 23-MAY-2007 19:00:56; Bright; 42.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 84; 0;27336
6; 1734.3; 23-MAY-2007 19:04:26; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;27336
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8; 2370.6; 23-MAY-2007 19:15:02; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;27336
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16; 4532.8; 23-MAY-2007 19:51:04; Dark ; 48.0; 58; 21Alp And ; 2.07; 11000;occ; 96; 0;27336
17; 4799.3; 23-MAY-2007 19:55:31; Dark ; 45.5; 140; 88Gam Peg ; 2.83; 26000;occ; 91; 0;27336
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22; 6438.1; 23-MAY-2007 20:22:49; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27336
23; 6845.4; 23-MAY-2007 20:29:37; Dark ; 44.5; 141; Bet Ara ; 2.84; 4600;occ; 89; 0;27336
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12; 4535.0; 24-MAY-2007 14:17:41; Dark ; 48.5; 58; 21Alp And ; 2.07; 11000;occ; 97; 0;27347
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 4; 2559.9; 25-MAY-2007 08:11:22; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70; 0;27358
 5; 3038.7; 25-MAY-2007 08:19:20; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;27358
 6; 3171.1; 25-MAY-2007 08:21:33; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27358
 7; 3446.6; 25-MAY-2007 08:26:08; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;27358
 8; 3936.5; 25-MAY-2007 08:34:18; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;27358
 9; 4008.2; 25-MAY-2007 08:35:30; Bright; 48.0; 68; 18Alp Cas ; 2.22; 4500;occ; 96; 0;27358
10; 4383.6; 25-MAY-2007 08:41:45; Bright; 37.0; 53; 43Bet And ; 2.05; 3300;occ; 74; 0;27358
11; 4536.8; 25-MAY-2007 08:44:19; Dark ; 27.0; 58; 21Alp And ; 2.07; 11000;occ; 54; 0;27358
12; 4807.6; 25-MAY-2007 08:48:49; Dark ; 47.0; 140; 88Gam Peg ; 2.83; 26000;occ; 94; 0;27358
13; 5337.7; 25-MAY-2007 08:57:40; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;27358
14; 5862.8; 25-MAY-2007 09:06:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27358
15; 6031.3; 25-MAY-2007 09:09:13; Dark ; 59.5; 63; Bet Gru ; 2.15; 2800;occ; 119; 0;27358
16; 6134.1; 25-MAY-2007 09:10:56; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;27358
17; 6453.6; 25-MAY-2007 09:16:15; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;27358
18; 6855.1; 25-MAY-2007 09:22:57; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;27358
19; 7023.2; 25-MAY-2007 09:25:45; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;27358
20; 7133.6; 25-MAY-2007 09:27:35; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;27358
21; 7253.2; 25-MAY-2007 09:29:35; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;27358
22; 7422.4; 25-MAY-2007 09:32:24; Dark ; 57.0; 16; 21Alp Sco ; 1.02; 3000;occ; 114; 0;27358
23; 7564.3; 25-MAY-2007 09:34:46; Bright; 41.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 82; 0;27358
24; 7772.4; 25-MAY-2007 09:38:14; Bright; 36.5; 104; 27Bet Lib ; 2.61; 13100;occ; 73; 0;27358
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 2; 2369.5; 25-MAY-2007 09:48:47; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;27359
 3; 2559.8; 25-MAY-2007 09:51:57; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;27359
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10; 4537.0; 25-MAY-2007 10:24:55; Dark ; 27.0; 58; 21Alp And ; 2.07; 11000;occ; 54; 0;27359
11; 4807.9; 25-MAY-2007 10:29:26; Dark ; 46.0; 140; 88Gam Peg ; 2.83; 26000;occ; 92; 0;27359
12; 5338.1; 25-MAY-2007 10:38:16; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;27359
13; 5863.4; 25-MAY-2007 10:47:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27359
14; 6031.9; 25-MAY-2007 10:49:50; Dark ; 56.0; 63; Bet Gru ; 2.15; 2800;occ; 112; 0;27359
15; 6135.0; 25-MAY-2007 10:51:33; Dark ; 44.0; 31; Alp Gru ; 1.73; 15200;occ; 88; 0;27359
16; 6454.3; 25-MAY-2007 10:56:52; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;27359
17; 6855.4; 25-MAY-2007 11:03:33; Dark ; 40.5; 141; Bet Ara ; 2.84; 4600;occ; 81; 0;27359
18; 7023.9; 25-MAY-2007 11:06:22; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;27359
19; 7134.1; 25-MAY-2007 11:08:12; Dark ; 50.0; 25; 35Lam Sco ; 1.62; 28000;occ; 100; 0;27359
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 3; 2369.4; 25-MAY-2007 11:29:23; Bright; 37.5; 83; ; 2.38; 11000;occ; 75; 0;27360
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 5; 3038.0; 25-MAY-2007 11:40:32; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;27360
 6; 3170.9; 25-MAY-2007 11:42:45; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;27360
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 9; 4008.0; 25-MAY-2007 11:56:42; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;27360
10; 4383.8; 25-MAY-2007 12:02:57; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;27360
11; 4808.3; 25-MAY-2007 12:10:02; Dark ; 45.0; 140; 88Gam Peg ; 2.83; 26000;occ; 90; 0;27360
12; 5338.6; 25-MAY-2007 12:18:52; Dark ; 43.5; 52; 16Bet Cet ; 2.04; 4500;occ; 87; 0;27360
13; 5745.0; 25-MAY-2007 12:25:39; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 0;27360
14; 5863.9; 25-MAY-2007 12:27:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27360
15; 6032.7; 25-MAY-2007 12:30:26; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;27360

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17; 6455.1; 25-MAY-2007 12:37:29; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27360
18; 6855.9; 25-MAY-2007 12:44:09; Dark ; 38.0; 141; Bet Ara ; 2.84; 4600;occ; 76; 0;27360
19; 7024.2; 25-MAY-2007 12:46:58; Dark ; 49.5; 40; The Sco ; 1.86; 7100;occ; 99; 0;27360
20; 7134.6; 25-MAY-2007 12:48:48; Dark ; 50.0; 25; 35Lam Sco ; 1.62; 28000;occ; 100; 0;27360
21; 7253.7; 25-MAY-2007 12:50:47; Dark ; 47.0; 75; 26Eps Sco ; 2.29; 4250;occ; 94; 0;27360
22; 7422.9; 25-MAY-2007 12:53:36; Dark ; 59.0; 16; 21Alp Sco ; 1.02; 3000;occ; 118; 0;27360
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 2; 2022.0; 25-MAY-2007 13:04:11; Bright; 39.0; 102; 24Alp Ser ; 2.60; 4250;occ; 78; 0;27361
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 7; 3446.6; 25-MAY-2007 13:27:56; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;27361
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 9; 4008.3; 25-MAY-2007 13:37:18; Bright; 48.5; 68; 18Alp Cas ; 2.22; 4500;occ; 97; 0;27361
10; 4384.1; 25-MAY-2007 13:43:34; Bright; 54.0; 53; 43Bet And ; 2.05; 3300;occ; 108; 0;27361
11; 4809.0; 25-MAY-2007 13:50:38; Dark ; 45.5; 140; 88Gam Peg ; 2.83; 26000;occ; 91; 0;27361
12; 5339.1; 25-MAY-2007 13:59:29; Dark ; 45.0; 52; 16Bet Cet ; 2.04; 4500;occ; 90; 0;27361
13; 5745.5; 25-MAY-2007 14:06:15; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;27361
14; 5864.5; 25-MAY-2007 14:08:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27361
15; 6033.5; 25-MAY-2007 14:11:03; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;27361
16; 6136.7; 25-MAY-2007 14:12:46; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;27361
17; 6455.8; 25-MAY-2007 14:18:05; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27361
18; 6856.4; 25-MAY-2007 14:24:46; Dark ; 39.5; 141; Bet Ara ; 2.84; 4600;occ; 79; 0;27361
19; 7024.9; 25-MAY-2007 14:27:34; Dark ; 45.5; 40; The Sco ; 1.86; 7100;occ; 91; 0;27361
20; 7135.2; 25-MAY-2007 14:29:25; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;27361
21; 7254.3; 25-MAY-2007 14:31:24; Dark ; 48.0; 75; 26Eps Sco ; 2.29; 4250;occ; 96; 0;27361
22; 7423.2; 25-MAY-2007 14:34:13; Dark ; 53.5; 16; 21Alp Sco ; 1.02; 3000;occ; 107; 0;27361
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 2; 1528.8; 25-MAY-2007 14:36:34; Bright; 41.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 82; 0;27362
 3; 1736.9; 25-MAY-2007 14:40:02; Bright; 36.0; 104; 27Bet Lib ; 2.61; 13100;occ; 72; 0;27362
 4; 2022.1; 25-MAY-2007 14:44:47; Bright; 38.5; 102; 24Alp Ser ; 2.60; 4250;occ; 77; 0;27362
 5; 2369.5; 25-MAY-2007 14:50:35; Bright; 36.0; 83; ; 2.38; 11000;occ; 72; 0;27362
 6; 2559.8; 25-MAY-2007 14:53:45; Bright; 35.5; 180; 27Gam Boo ; 3.04; 8000;occ; 71; 0;27362
 7; 3037.3; 25-MAY-2007 15:01:43; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;27362
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 9; 3446.7; 25-MAY-2007 15:08:32; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;27362
10; 3936.4; 25-MAY-2007 15:16:42; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;27362
11; 4008.2; 25-MAY-2007 15:17:54; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;27362
12; 4384.2; 25-MAY-2007 15:24:10; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;27362
13; 4809.3; 25-MAY-2007 15:31:15; Dark ; 47.0; 140; 88Gam Peg ; 2.83; 26000;occ; 94; 0;27362
14; 5339.7; 25-MAY-2007 15:40:05; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;27362
15; 5746.0; 25-MAY-2007 15:46:51; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;27362
16; 5865.1; 25-MAY-2007 15:48:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27362
17; 6034.3; 25-MAY-2007 15:51:40; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;27362
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19; 6456.6; 25-MAY-2007 15:58:42; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;27362
20; 6856.8; 25-MAY-2007 16:05:22; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 0;27362
21; 7025.5; 25-MAY-2007 16:08:11; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;27362
22; 7135.7; 25-MAY-2007 16:10:01; Dark ; 48.0; 25; 35Lam Sco ; 1.62; 28000;occ; 96; 0;27362
23; 7254.6; 25-MAY-2007 16:12:00; Dark ; 47.5; 75; 26Eps Sco ; 2.29; 4250;occ; 95; 0;27362
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 5; 2021.9; 25-MAY-2007 16:25:23; Bright; 38.5; 102; 24Alp Ser ; 2.60; 4250;occ; 77; 0;27363
 6; 2369.4; 25-MAY-2007 16:31:11; Bright; 35.0; 83; ; 2.38; 11000;occ; 70; 0;27363
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11; 3935.9; 25-MAY-2007 16:57:17; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;27363
12; 4007.9; 25-MAY-2007 16:58:29; Bright; 38.5; 68; 18Alp Cas ; 2.22; 4500;occ; 77; 0;27363

```


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 14; 4809.7; 25-MAY-2007 17:11:51; Dark ; 46.0; 140; 88Gam Peg ; 2.83; 26000;occ; 92; 0;27363
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 18; 6035.1; 25-MAY-2007 17:32:16; Dark ; 51.0; 63; Bet Gru ; 2.15; 2800;occ; 102; 0;27363
 19; 6138.6; 25-MAY-2007 17:34:00; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;27363
 20; 6457.3; 25-MAY-2007 17:39:19; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27363
 21; 6857.3; 25-MAY-2007 17:45:59; Dark ; 44.5; 141; Bet Ara ; 2.84; 4600;occ; 89; 0;27363
 22; 7026.0; 25-MAY-2007 17:48:47; Dark ; 36.5; 40; The Sco ; 1.86; 7100;occ; 73; 0;27363

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20070525_174847_000060832058_00256_27364_7904.N1

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 4; 1387.8; 25-MAY-2007 17:55:25; Dark ; 54.5; 16; 21Alp Sco ; 1.02; 3000;occ; 109; 0;27364
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 10; 3036.5; 25-MAY-2007 18:22:54; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;27364
 11; 3170.6; 25-MAY-2007 18:25:08; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;27364
 12; 3446.6; 25-MAY-2007 18:29:44; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27364
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 14; 4007.8; 25-MAY-2007 18:39:05; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;27364
 15; 4384.4; 25-MAY-2007 18:45:22; Bright; 37.5; 53; 43Bet And ; 2.05; 3300;occ; 75; 0;27364
 16; 4810.1; 25-MAY-2007 18:52:27; Dark ; 46.5; 140; 88Gam Peg ; 2.83; 26000;occ; 93; 0;27364
 17; 5340.5; 25-MAY-2007 19:01:18; Dark ; 44.0; 52; 16Bet Cet ; 2.04; 4500;occ; 88; 0;27364
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 22; 6458.0; 25-MAY-2007 19:19:55; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;27364
 23; 6857.6; 25-MAY-2007 19:26:35; Dark ; 39.5; 141; Bet Ara ; 2.84; 4600;occ; 79; 0;27364
 24; 7026.4; 25-MAY-2007 19:29:24; Dark ; 47.5; 40; The Sco ; 1.86; 7100;occ; 95; 0;27364

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20070525_192940_000058942058_00257_27365_7905.N1

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16; 2369.1; 27-MAY-2007 00:22:33; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;27382
17; 2559.4; 27-MAY-2007 00:25:44; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70; 0;27382
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 8; 5.4; 26-MAY-2007 06:57:10; Dark ; 58.5; 63; Bet Gru ; 2.15; 2800;occ; 117; 0;27372
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11; 824.7; 26-MAY-2007 07:10:50; Dark ; 44.5; 141; Bet Ara ; 2.84; 4600;occ; 89; 0;27372
12; 994.2; 26-MAY-2007 07:13:39; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;27372
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14; 1221.9; 26-MAY-2007 07:17:27; Dark ; 47.5; 75; 26Eps Sco ; 2.29; 4250;occ; 95; 0;27372
15; 1350.4; 26-MAY-2007 07:19:35; Dark ; 42.0; 136; 23Tau Sco ; 2.82; 30000;occ; 84; 0;27372
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16; 6042.0; 26-MAY-2007 08:37:47; Dark ; 59.5; 63; Bet Gru ; 2.15; 2800;occ; 119; 0;27372
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19; 6861.1; 26-MAY-2007 08:51:26; Dark ; 43.0; 141; Bet Ara ; 2.84; 4600;occ; 86; 0;27372
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23; 7386.5; 26-MAY-2007 09:00:11; Dark ; 43.5; 136; 23Tau Sco ; 2.82; 30000;occ; 87; 0;27372
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15; 6042.8; 26-MAY-2007 10:18:24; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;27373

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18; 6861.5; 26-MAY-2007 10:32:02; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 0;27373
19; 7031.0; 26-MAY-2007 10:34:52; Dark ; 52.0; 40; The Sco ; 1.86; 7100;occ; 104; 0;27373
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22; 7386.8; 26-MAY-2007 10:40:48; Dark ; 44.5; 136; 23Tau Sco ; 2.82; 30000;occ; 89; 0;27373
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 9; 3935.4; 26-MAY-2007 11:23:52; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;27374
10; 4007.1; 26-MAY-2007 11:25:04; Bright; 42.0; 68; 18Alp Cas ; 2.22; 4500;occ; 84; 0;27374
11; 4385.5; 26-MAY-2007 11:31:22; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;27374
12; 4813.9; 26-MAY-2007 11:38:31; Dark ; 46.0; 140; 88Gam Peg ; 2.83; 26000;occ; 92; 0;27374
13; 5345.3; 26-MAY-2007 11:47:22; Dark ; 45.0; 52; 16Bet Cet ; 2.04; 4500;occ; 90; 0;27374
14; 5751.1; 26-MAY-2007 11:54:08; Dark ; 41.5; 84; Alp Phe ; 2.40; 4500;occ; 83; 0;27374
15; 5871.9; 26-MAY-2007 11:56:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27374
16; 6043.5; 26-MAY-2007 11:59:00; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;27374
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23; 7387.0; 26-MAY-2007 12:21:24; Dark ; 41.5; 136; 23Tau Sco ; 2.82; 30000;occ; 83; 0;27374
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23; 7259.2; 26-MAY-2007 13:59:52; Dark ; 45.5; 75; 26Eps Sco ; 2.29; 4250;occ; 91; 0;27375
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23; 7259.6; 26-MAY-2007 15:40:28; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;27376
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6; 1538.4; 29-MAY-2007 20:53:16; Bright; 38.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 77; 0;27423

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 16; 2369.7; 30-MAY-2007 00:28:19; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;27425
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17; 6878.8; 29-MAY-2007 08:57:29; Dark ; 39.5; 141; Bet Ara ; 2.84; 4600;occ; 79; 0;27415
18; 7052.0; 29-MAY-2007 09:00:22; Dark ; 51.5; 40; The Sco ; 1.86; 7100;occ; 103; 0;27415
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13; 5771.3; 29-MAY-2007 10:19:37; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;27416
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16; 6494.2; 29-MAY-2007 10:31:40; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27416
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9; 3932.8; 29-MAY-2007 11:29:35; Bright; 55.0; 76; 27Gam Cas ; 2.30; 30000;occ; 110; 0;27417
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12; 5367.5; 29-MAY-2007 11:53:29; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;27417
13; 5771.7; 29-MAY-2007 12:00:14; Dark ; 38.5; 84; Alp Phe ; 2.40; 4500;occ; 77; 0;27417
14; 6077.7; 29-MAY-2007 12:05:20; Dark ; 57.5; 63; Bet Gru ; 2.15; 2800;occ; 115; 0;27417
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16; 6494.9; 29-MAY-2007 12:12:17; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27417
17; 6879.6; 29-MAY-2007 12:18:41; Dark ; 40.5; 141; Bet Ara ; 2.84; 4600;occ; 81; 0;27417
18; 7052.8; 29-MAY-2007 12:21:35; Dark ; 43.5; 40; The Sco ; 1.86; 7100;occ; 87; 0;27417

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19; 7161.8; 29-MAY-2007 12:23:24; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;27417
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21; 7398.4; 29-MAY-2007 12:27:20; Dark ; 42.0; 136; 23Tau Sco ; 2.82; 30000;occ; 84; 0;27417
22; 7573.5; 29-MAY-2007 12:30:15; Bright; 38.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 77; 0;27417
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 3; 2016.8; 29-MAY-2007 12:38:14; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;27418
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16; 5788.4; 31-MAY-2007 17:39:40; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;27449
17; 6104.5; 31-MAY-2007 17:44:56; Dark ; 62.0; 63; Bet Gru ; 2.15; 2800;occ; 124; 0;27449
18; 6216.1; 31-MAY-2007 17:46:48; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;27449
19; 6517.2; 31-MAY-2007 17:51:49; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27449
20; 6892.2; 31-MAY-2007 17:58:04; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;27449
21; 6966.8; 31-MAY-2007 17:59:18; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;27449
22; 7067.9; 31-MAY-2007 18:00:59; Dark ; 52.0; 40; The Sco ; 1.86; 7100;occ; 104; 0;27449

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1; 1031.8; 31-MAY-2007 18:00:59; Dark ; 52.5; 40; The Sco ; 1.86; 7100;occ; 105; 0;27450
2; 1139.9; 31-MAY-2007 18:02:48; Dark ; 48.0; 25; 35Lam Sco ; 1.62; 28000;occ; 96; 0;27450
3; 1247.7; 31-MAY-2007 18:04:35; Dark ; 45.5; 75; 26Eps Sco ; 2.29; 4250;occ; 91; 0;27450
4; 1370.5; 31-MAY-2007 18:06:38; Dark ; 41.5; 136; 23Tau Sco ; 2.82; 30000;occ; 83; 0;27450
5; 1542.6; 31-MAY-2007 18:09:30; Bright; 37.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 75; 0;27450
6; 1702.4; 31-MAY-2007 18:12:10; Bright; 41.0; 98; 13Zet Oph ; 2.57; 30000;occ; 82; 0;27450

7;	1834.2;	31-MAY-2007	18:14:22;	Bright;	39.5;	120;	1Del Oph	;	2.73;	3200;occ;	79;	0;27450	
8;	2015.3;	31-MAY-2007	18:17:23;	Bright;	36.5;	102;	24Alp Ser	;	2.60;	4250;occ;	73;	0;27450	
9;	2370.5;	31-MAY-2007	18:23:18;	Bright;	37.0;	67;	5Alp CrB	;	2.22;	11000;occ;	74;	0;27450	
10;	3007.9;	31-MAY-2007	18:33:56;	Bright;	40.0;	119;	14Eta Dra	;	2.73;	4700;occ;	80;	0;27450	
11;	3166.3;	31-MAY-2007	18:36:34;	Bright;	35.5;	60;	7Bet UMi	;	2.08;	3950;occ;	71;	0;27450	
12;	3446.8;	31-MAY-2007	18:41:14;	Bright;	36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;27450	
13;	3930.1;	31-MAY-2007	18:49:18;	Bright;	37.5;	76;	27Gam Cas	;	2.30;	30000;occ;	75;	0;27450	
14;	4393.3;	31-MAY-2007	18:57:01;	Bright;	44.5;	53;	43Bet And	;	2.05;	3300;occ;	89;	0;27450	
15;	5386.3;	31-MAY-2007	19:13:34;	Dark	;	46.5;	52;	16Bet Cet	;	2.04;	4500;occ;	93;	0;27450
16;	5647.2;	31-MAY-2007	19:17:55;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;27450
17;	5788.9;	31-MAY-2007	19:20:17;	Dark	;	47.5;	84;	Alp Phe	;	2.40;	4500;occ;	95;	0;27450
18;	6105.3;	31-MAY-2007	19:25:33;	Dark	;	51.5;	63;	Bet Gru	;	2.15;	2800;occ;	103;	0;27450
19;	6216.9;	31-MAY-2007	19:27:25;	Dark	;	44.5;	31;	Alp Gru	;	1.73;	15200;occ;	89;	0;27450
20;	6517.8;	31-MAY-2007	19:32:25;	Dark	;	41.5;	45;	Alp Pav	;	1.94;	26000;occ;	83;	0;27450
21;	6892.5;	31-MAY-2007	19:38:40;	Dark	;	38.5;	141;	Bet Ara	;	2.84;	4600;occ;	77;	0;27450
22;	6967.1;	31-MAY-2007	19:39:55;	Dark	;	38.5;	147;	Alp Ara	;	2.88;	26000;occ;	77;	0;27450