

GOMOS Daily Report 06-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	08MAY2007 05:37:45
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (06MAY2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (07MAY2007 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)

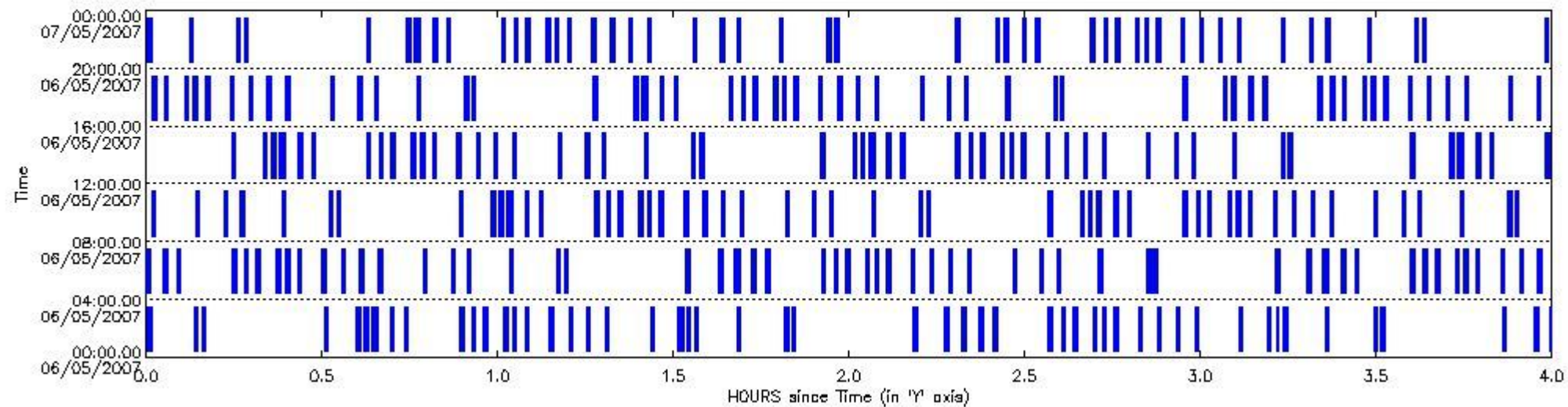
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

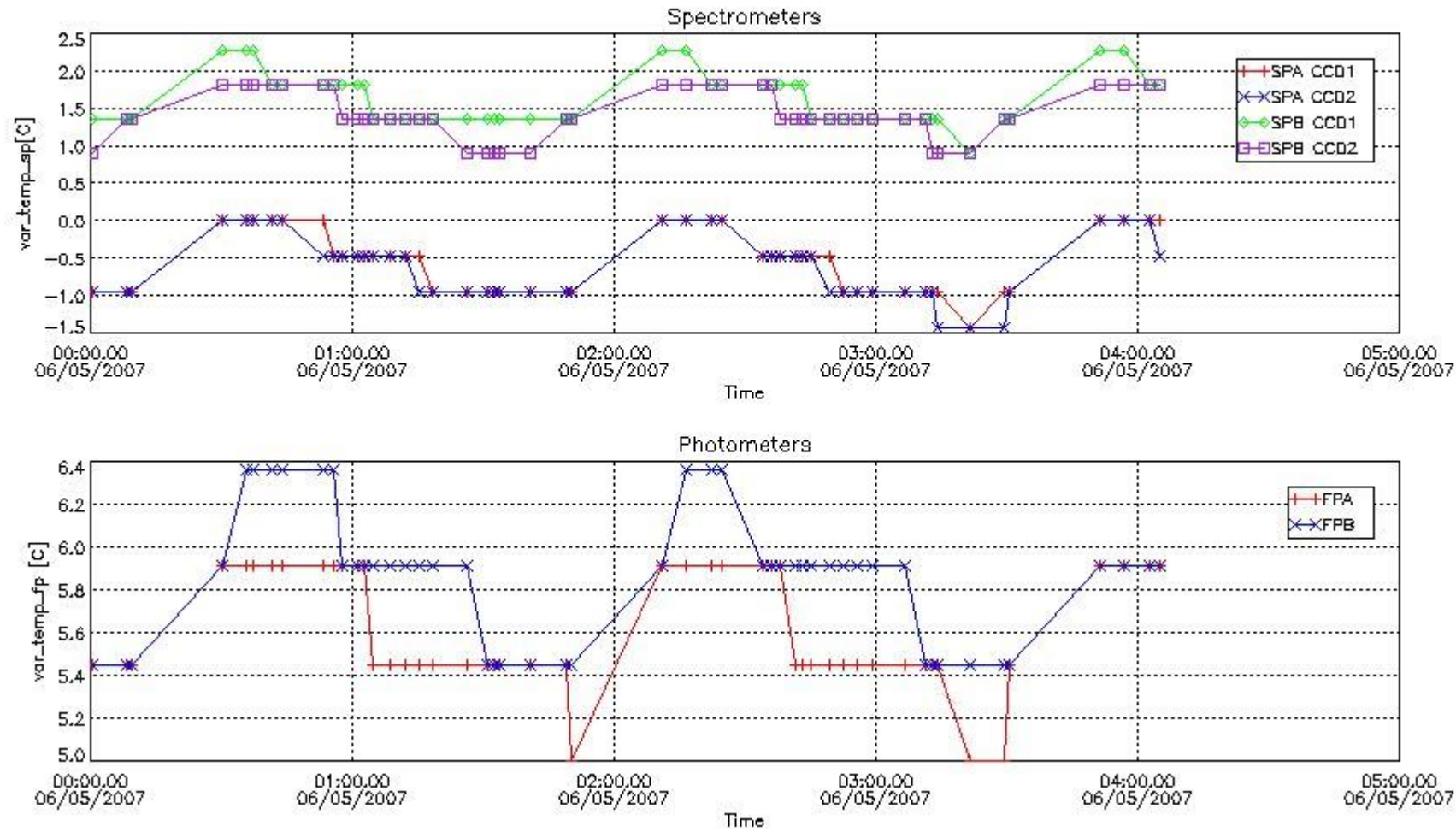
No missing products.

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_1PNPDE20070506_000013_000000372057_00474_27081_9939.N1	06-MAY-2007 00:00:13	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	27081	No
2	GOM_TRA_1PNPDE20070506_000816_000000342057_00474_27081_9940.N1	06-MAY-2007 00:08:16	Bright	33.500	110	37Del Cas	2.6780	8900.0	67	27081	No
3	GOM_TRA_1PNPDE20070506_000934_000000342057_00474_27081_9941.N1	06-MAY-2007 00:09:34	Bright	34.000	68	18Alp Cas	2.2250	4500.0	68	27081	No
4	GOM_TRA_1PNPDE20070506_003021_000000432057_00474_27081_9942.N1	06-MAY-2007 00:30:21	Dark	42.500	52	16Bet Cet	2.0370	4500.0	85	27081	No
5	GOM_TRA_1PNPDE20070506_003546_000000452057_00474_27081_0070.N1	06-MAY-2007 00:35:46	Dark	45.000	18	24Alp PsA	1.1660	9700.0	90	27081	No
6	GOM_TRA_1PNPDE20070506_003711_000000432057_00474_27081_0071.N1	06-MAY-2007 00:37:11	Dark	42.500	84	Alp Phe	2.3970	4500.0	85	27081	No
7	GOM_TRA_1PNPDE20070506_004135_000000432057_00474_27081_0072.N1	06-MAY-2007 00:41:35	Dark	43.000	31	Alp Gru	1.7340	15200.	86	27081	No
8	GOM_TRA_1PNPDE20070506_004359_000000412057_00475_27082_0073.N1	06-MAY-2007 00:43:59	Dark	40.500	148	Alp Tuc	2.8780	4100.0	81	27082	No
9	GOM_TRA_1PNPDE20070506_005325_000000502057_00475_27082_0074.N1	06-MAY-2007 00:53:25	Straylight	49.500	43	Alp TrA	1.9100	4250.0	99	27082	No
10	GOM_TRA_1PNPDE20070506_005536_000000382057_00475_27082_0075.N1	06-MAY-2007 00:55:36	Straylight	38.000	134	Bet TrA	2.8100	6600.0	76	27082	No
11	GOM_TRA_1PNPDE20070506_005733_000000432057_00475_27082_0076.N1	06-MAY-2007 00:57:33	Straylight	43.000	4	Alp1Cen	-0.010000	5800.0	86	27082	No
12	GOM_TRA_1PNPDE20070506_010102_000000382057_00475_27082_0077.N1	06-MAY-2007 01:01:02	Straylight	38.000	78	Alp Lup	2.3040	28000.	76	27082	No

13	GOM_TRA_1PNPDE20070506_010234_000000392057_00475_27082_0078.N1	06-MAY-2007 01:02:34	Straylight	39.000	81	Eta Cen	2.3560	28000.	78	27082	No
14	GOM_TRA_1PNPDE20070506_010435_000000452057_00475_27082_0079.N1	06-MAY-2007 01:04:35	Twilight_stray	44.500	54	5The Cen	2.0550	4500.0	89	27082	No
15	GOM_TRA_1PNPDE20070506_010848_000000402057_00475_27082_0080.N1	06-MAY-2007 01:08:48	Bright	40.000	169	46Gam Hya	2.9910	4700.0	80	27082	No
16	GOM_TRA_1PNPDE20070506_011205_000000392057_00475_27082_0081.N1	06-MAY-2007 01:12:05	Bright	38.500	15	67Alp Vir	0.97600	28000.	77	27082	No
17	GOM_TRA_1PNPDE20070506_011512_000000352057_00475_27082_0082.N1	06-MAY-2007 01:15:12	Bright	35.000	121	29Gam Vir	2.7400	7200.0	70	27082	No
18	GOM_TRA_1PNPDE20070506_011826_000000352057_00475_27082_0083.N1	06-MAY-2007 01:18:26	Bright	35.000	138	47Eps Vir	2.8280	4700.0	70	27082	No
19	GOM_TRA_1PNPDE20070506_012605_000000352057_00475_27082_0084.N1	06-MAY-2007 01:26:05	Bright	35.000	152	12Alp2CVn	2.8900	11000.	70	27082	No
20	GOM_TRA_1PNPDE20070506_013048_000000532057_00475_27082_0085.N1	06-MAY-2007 01:30:48	Bright	53.000	55	79Zet UMa	2.0600	10200.	106	27082	No
21	GOM_TRA_1PNPDE20070506_013222_000000262057_00475_27082_0086.N1	06-MAY-2007 01:32:22	Bright	26.000	82	48Bet UMa	2.3650	10600.	52	27082	No
22	GOM_TRA_1PNPDE20070506_013337_000000342057_00475_27082_0087.N1	06-MAY-2007 01:33:37	Bright	33.500	36	50Alp UMa	1.8000	6300.0	67	27082	No
23	GOM_TRA_1PNPDE20070506_014049_000000332057_00475_27082_0088.N1	06-MAY-2007 01:40:49	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	27082	No
24	GOM_TRA_1PNPDE20070506_014855_000000522057_00475_27082_0089.N1	06-MAY-2007 01:48:55	Bright	52.000	76	27Gam Cas	2.3000	30000.	104	27082	No
25	GOM_TRA_1PNPDE20070506_015010_000000372057_00475_27082_0090.N1	06-MAY-2007 01:50:10	Bright	37.000	68	18Alp Cas	2.2250	4500.0	74	27082	No
26	GOM_TRA_1PNPDE20070506_021057_000000432057_00475_27082_0222.N1	06-MAY-2007 02:10:57	Dark	43.000	52	16Bet Cet	2.0370	4500.0	86	27082	No
27	GOM_TRA_1PNPDE20070506_021622_000000492057_00475_27082_0223.N1	06-MAY-2007 02:16:22	Dark	49.000	18	24Alp PsA	1.1660	9700.0	98	27082	No
28	GOM_TRA_1PNPDE20070506_022212_000000412057_00475_27082_0224.N1	06-MAY-2007 02:22:12	Dark	40.500	31	Alp Gru	1.7340	15200.	81	27082	No
29	GOM_TRA_1PNPDE20070506_022435_000000422057_00476_27083_0225.N1	06-MAY-2007 02:24:35	Dark	42.000	148	Alp Tuc	2.8780	4100.0	84	27083	No
30	GOM_TRA_1PNPDE20070506_023401_000000402057_00476_27083_0226.N1	06-MAY-2007 02:34:01	Straylight	39.500	43	Alp TrA	1.9100	4250.0	79	27083	No
31	GOM_TRA_1PNPDE20070506_023613_000000372057_00476_27083_0227.N1	06-MAY-2007 02:36:13	Straylight	36.500	134	Bet TrA	2.8100	6600.0	73	27083	No
32	GOM_TRA_1PNPDE20070506_023810_000000522057_00476_27083_0228.N1	06-MAY-2007 02:38:10	Straylight	51.500	4	Alp1Cen	-0.010000	5800.0	103	27083	No
33	GOM_TRA_1PNPDE20070506_024138_000000392057_00476_27083_0229.N1	06-MAY-2007 02:41:38	Straylight	38.500	78	Alp Lup	2.3040	28000.	77	27083	No
34	GOM_TRA_1PNPDE20070506_024310_000000392057_00476_27083_0230.N1	06-MAY-2007 02:43:10	Straylight	38.500	81	Eta Cen	2.3560	28000.	77	27083	No
35	GOM_TRA_1PNPDE20070506_024512_000000432057_00476_27083_0231.N1	06-MAY-2007 02:45:12	Twilight_stray	43.000	54	5The Cen	2.0550	4500.0	86	27083	No
36	GOM_TRA_1PNPDE20070506_024924_000000382057_00476_27083_0232.N1	06-MAY-2007 02:49:24	Bright	37.500	169	46Gam Hya	2.9910	4700.0	75	27083	No
37	GOM_TRA_1PNPDE20070506_025241_000000382057_00476_27083_0233.N1	06-MAY-2007 02:52:41	Bright	38.000	15	67Alp Vir	0.97600	28000.	76	27083	No
38	GOM_TRA_1PNPDE20070506_025549_000000352057_00476_27083_0234.N1	06-MAY-2007 02:55:49	Bright	35.000	121	29Gam Vir	2.7400	7200.0	70	27083	No
39	GOM_TRA_1PNPDE20070506_025902_000000362057_00476_27083_0235.N1	06-MAY-2007 02:59:02	Bright	36.000	138	47Eps Vir	2.8280	4700.0	72	27083	No
40	GOM_TRA_1PNPDE20070506_030642_000000342057_00476_27083_0236.N1	06-MAY-2007 03:06:42	Bright	33.500	152	12Alp2CVn	2.8900	11000.	67	27083	No
41	GOM_TRA_1PNPDE20070506_031124_000000372057_00476_27083_0237.N1	06-MAY-2007 03:11:24	Bright	36.500	55	79Zet UMa	2.0600	10200.	73	27083	No
42	GOM_TRA_1PNPDE20070506_031258_000000262057_00476_27083_0238.N1	06-MAY-2007 03:12:58	Bright	26.000	82	48Bet UMa	2.3650	10600.	52	27083	No
43	GOM_TRA_1PNPDE20070506_031413_000000372057_00476_27083_0239.N1	06-MAY-2007 03:14:13	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	27083	No
44	GOM_TRA_1PNPDE20070506_032125_000000332057_00476_27083_0240.N1	06-MAY-2007 03:21:25	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	27083	No
45	GOM_TRA_1PNPDE20070506_032931_000000382057_00476_27083_0371.N1	06-MAY-2007 03:29:31	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	27083	No
46	GOM_TRA_1PNPDE20070506_033046_000000442057_00476_27083_0372.N1	06-MAY-2007 03:30:46	Bright	43.500	68	18Alp Cas	2.2250	4500.0	87	27083	No
47	GOM_TRA_1PNPDE20070506_035133_000000412057_00476_27083_0373.N1	06-MAY-2007 03:51:33	Dark	40.500	52	16Bet Cet	2.0370	4500.0	81	27083	No
48	GOM_TRA_1PNPDE20070506_035659_000000472057_00476_27083_0374.N1	06-MAY-2007 03:56:59	Dark	47.000	18	24Alp PsA	1.1660	9700.0	94	27083	No
49	GOM_TRA_1PNPDE20070506_040248_000000432057_00476_27083_0375.N1	06-MAY-2007 04:02:48	Dark	43.000	31	Alp Gru	1.7340	15200.	86	27083	No
50	GOM_TRA_1PNPDE20070506_040511_000000372057_00477_27084_0376.N1	06-MAY-2007 04:05:11	Dark	37.000	148	Alp Tuc	2.8780	4100.0	74	27084	No

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



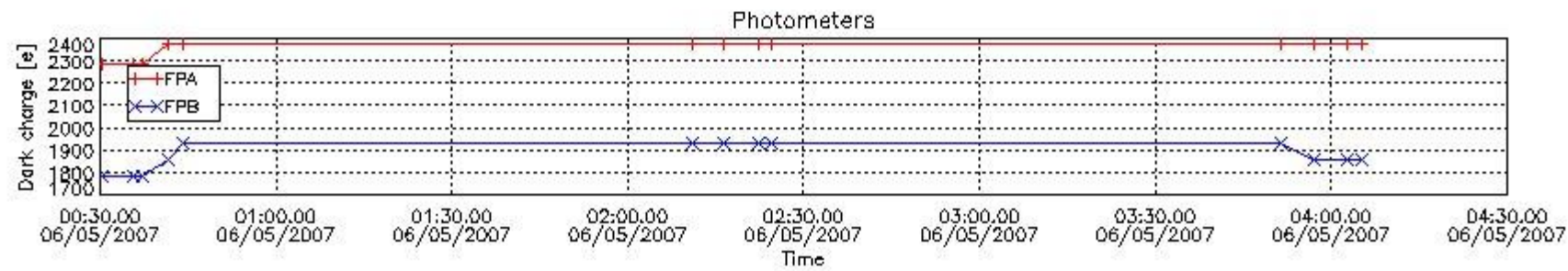
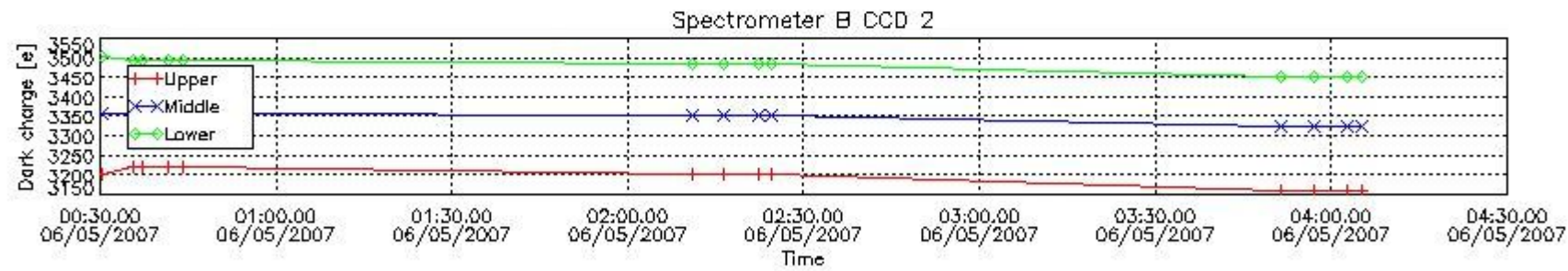
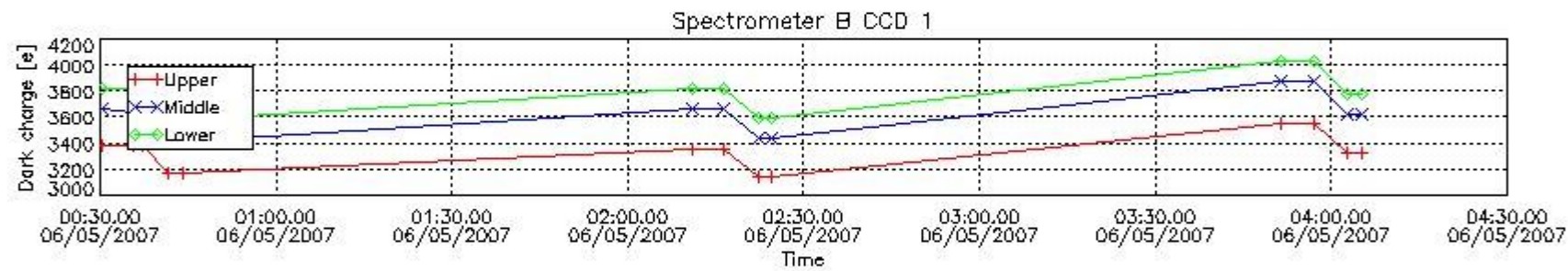
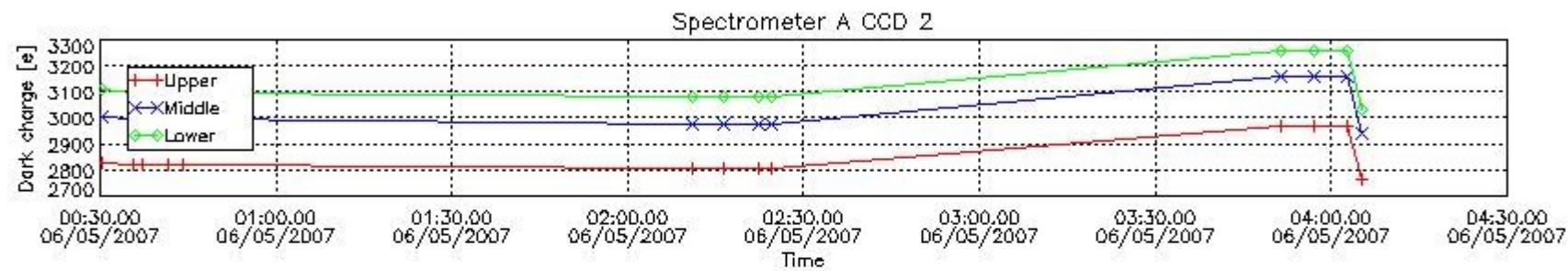
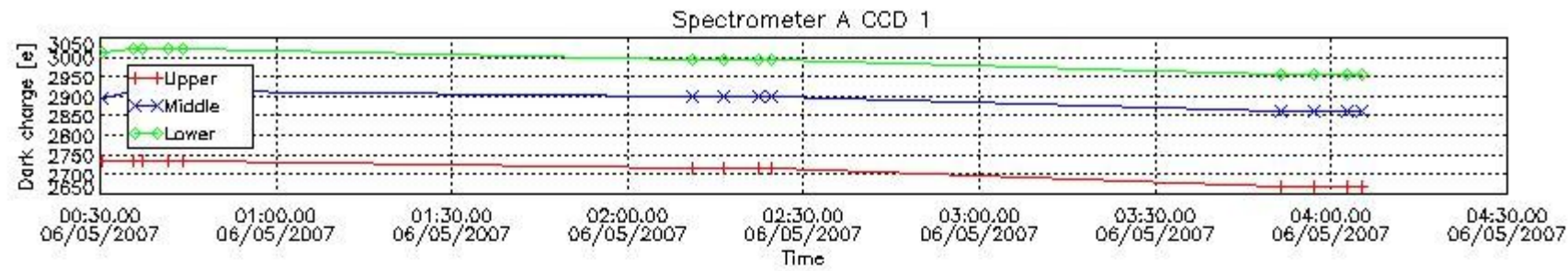
4. Overview of dark signal processing per product

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



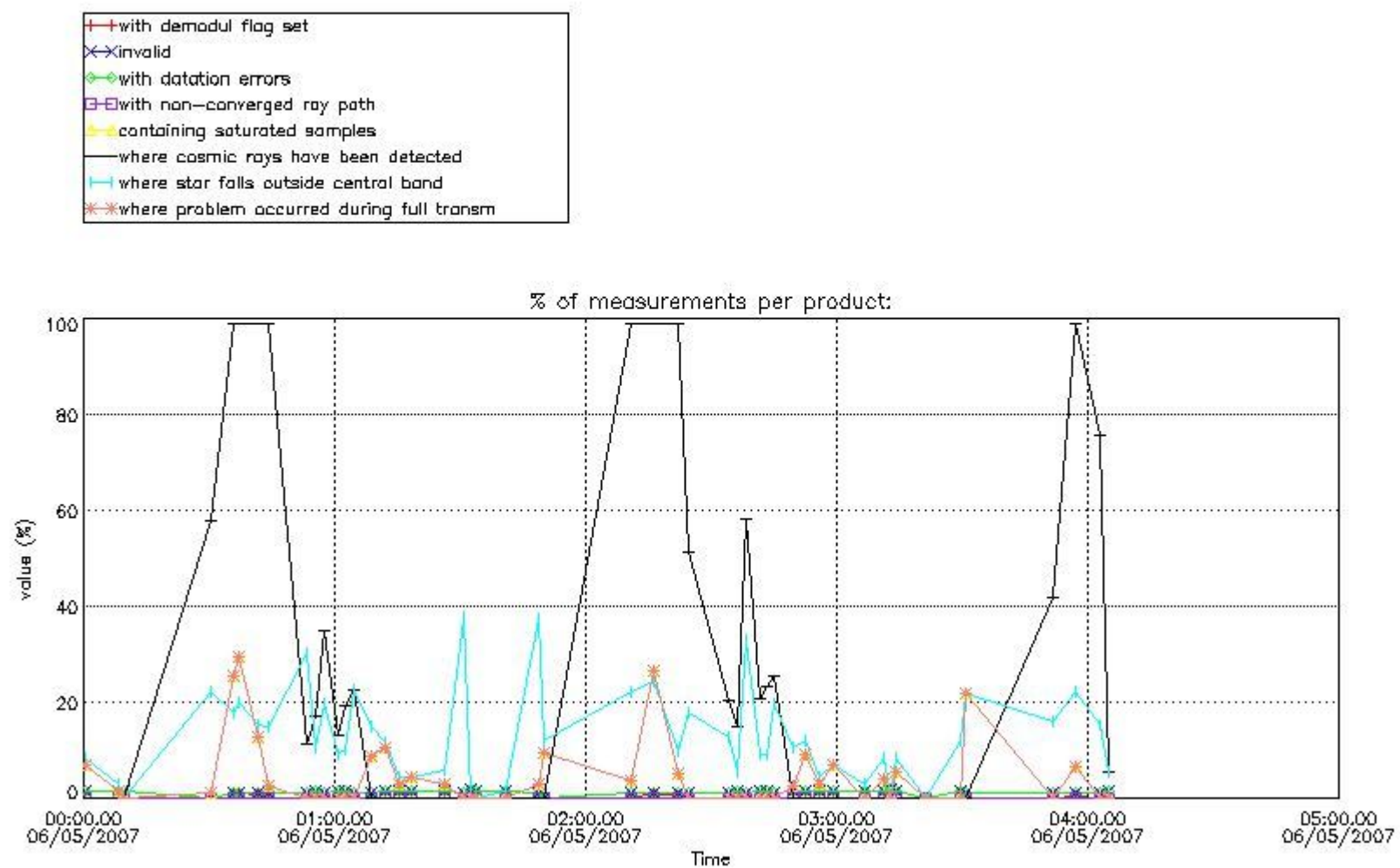
5. Demodulation flag and quality information monitoring

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.

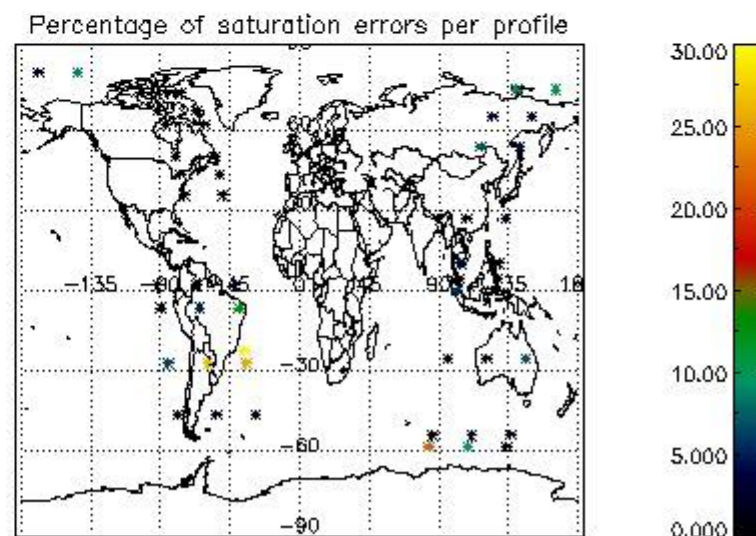
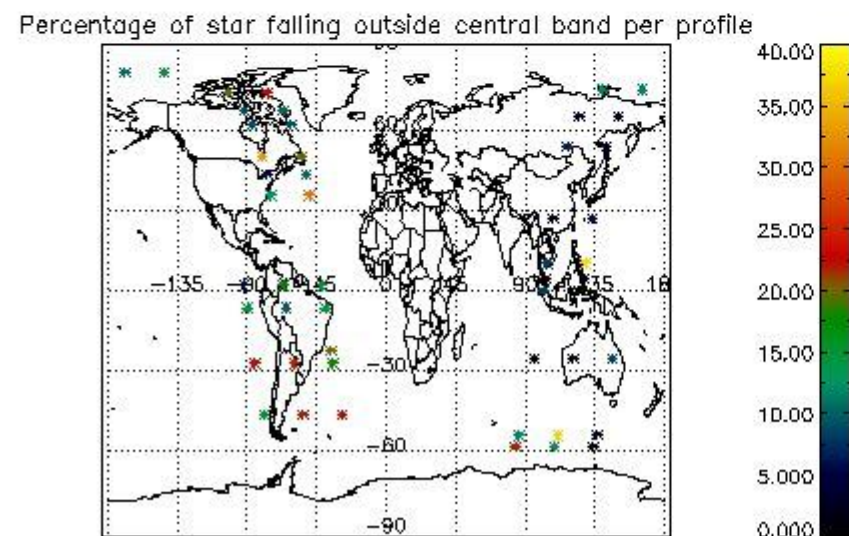
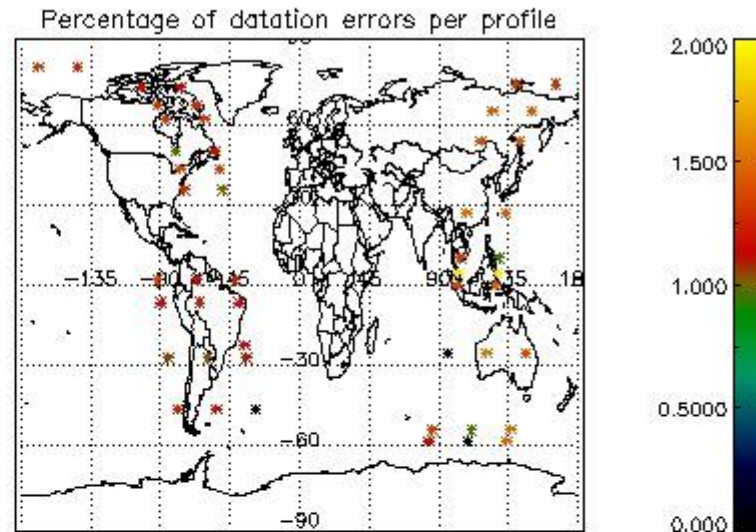
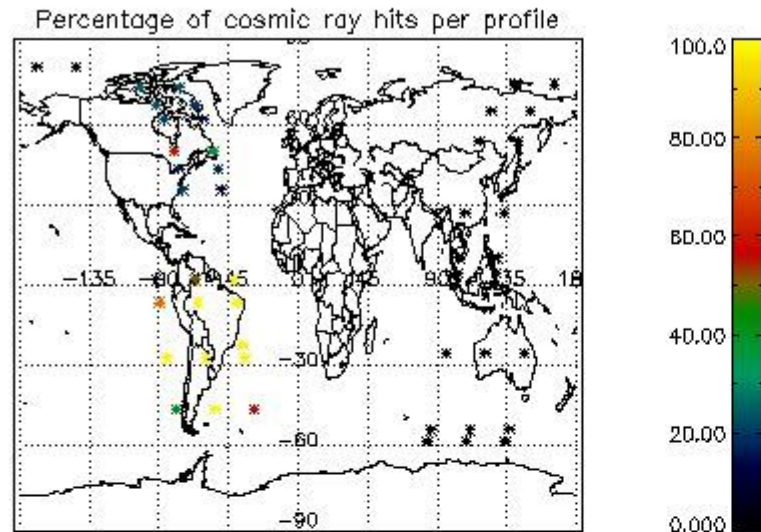
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	26.0000 %
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)



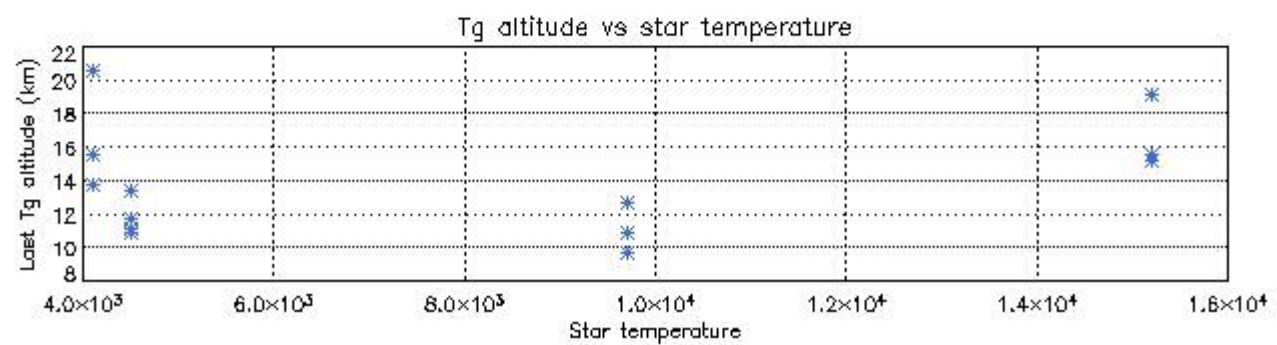
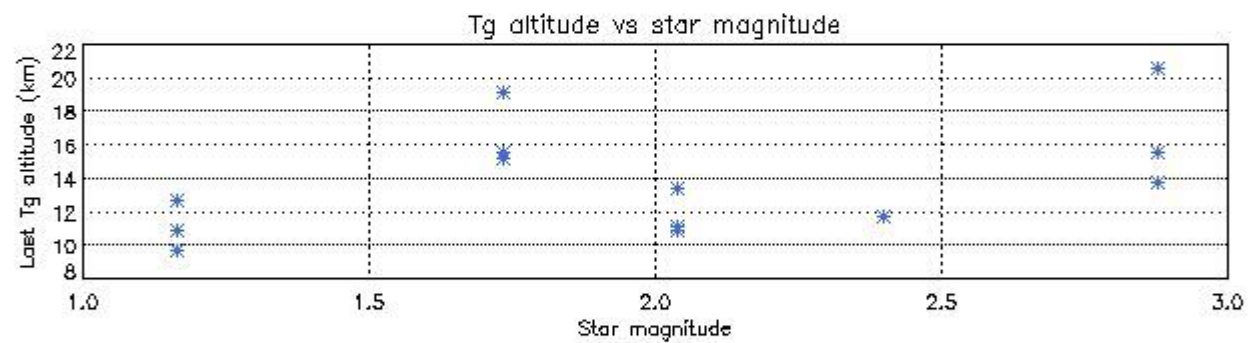
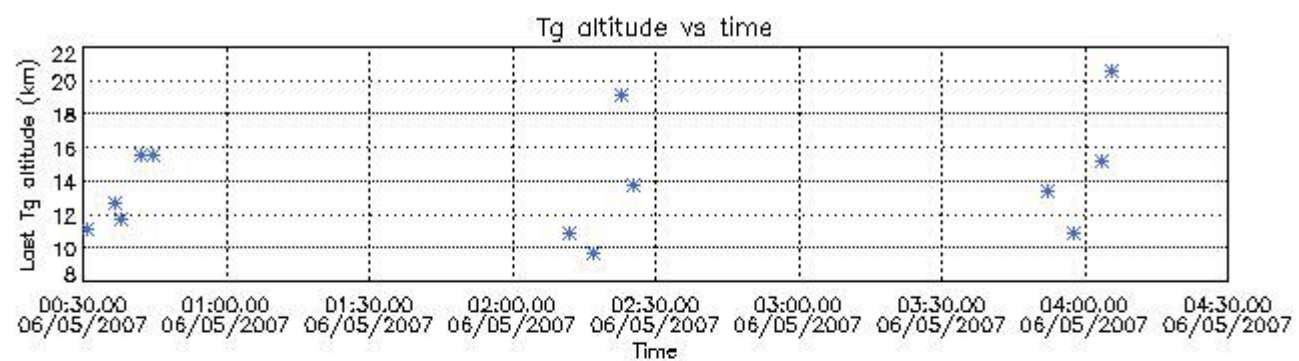
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.845	21.984	NaN
St. deviation:	3.2688	10.726	NaN
Maximum:	20.508	50.810	NaN
Minimum:	9.6582	3.2741	NaN
Number of data:	13.000	25.000	NaN

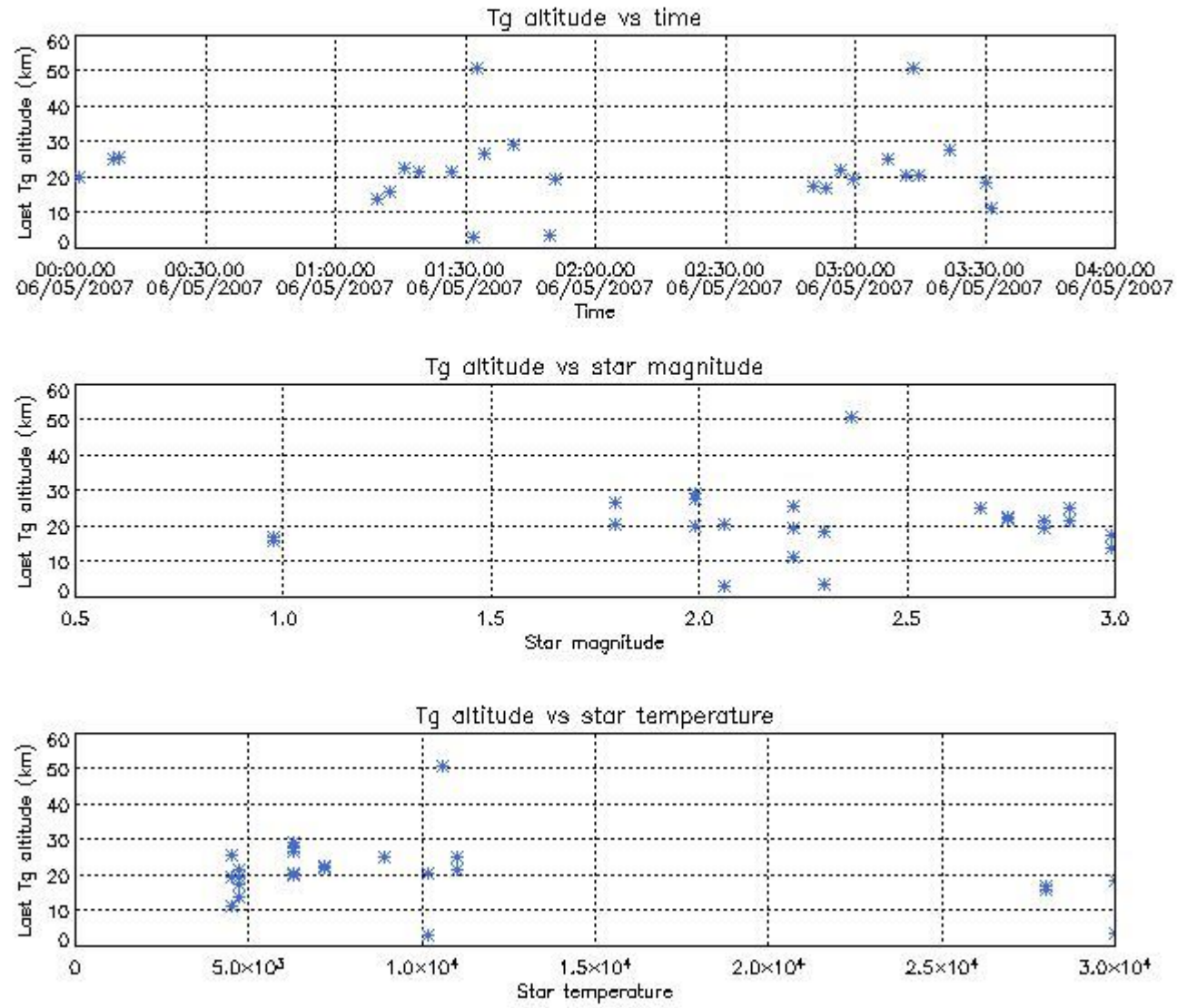
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

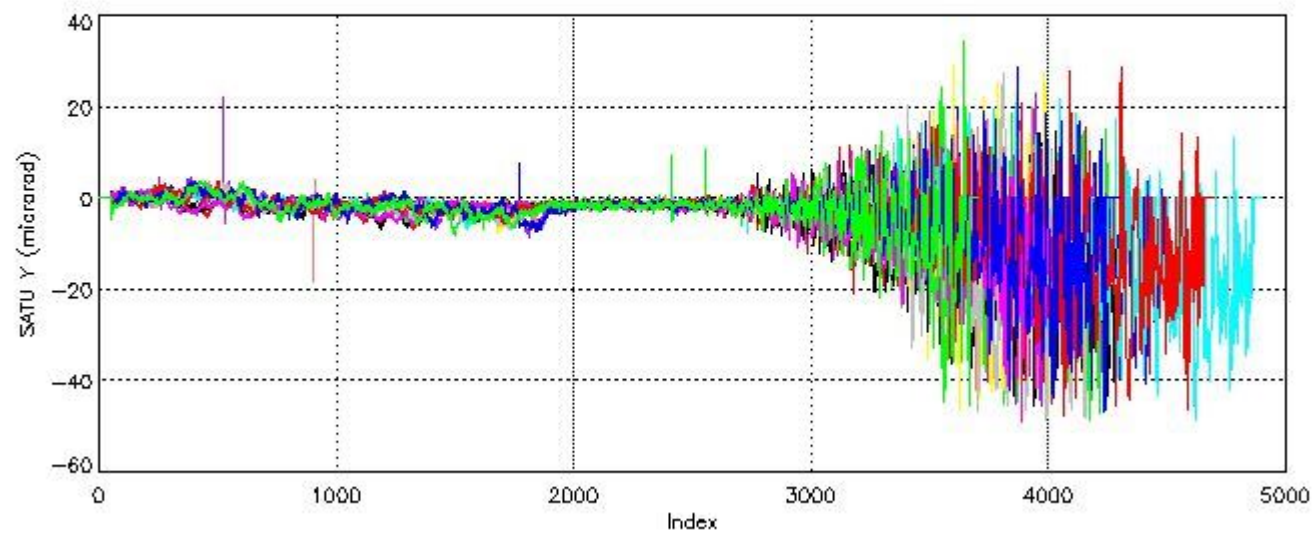
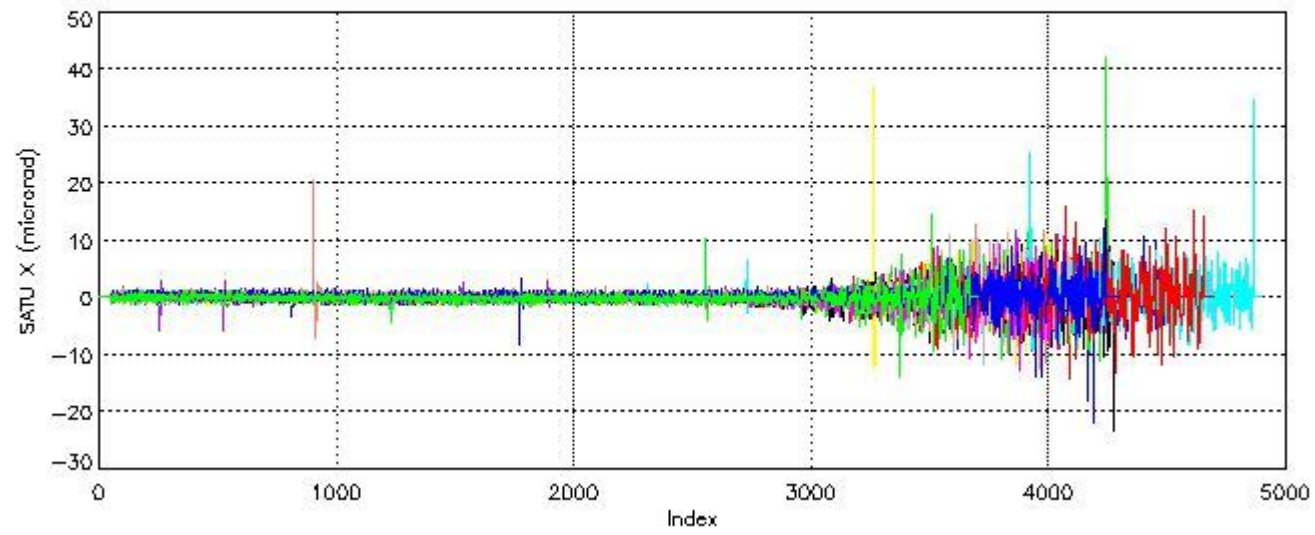


7. Star Acquisition and Tracking Unit (SATU)

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:	0.030355	-0.48643	-0.0017099	-0.50552
St. deviation:	0.42147	1.4454	0.75954	1.5196
Maximum:	20.700	22.200	5.0000	6.8000
Minimum:	-7.1000	-18.500	-5.9000	-6.7000

Number of data:	11900.	11900.	20950.	20950.
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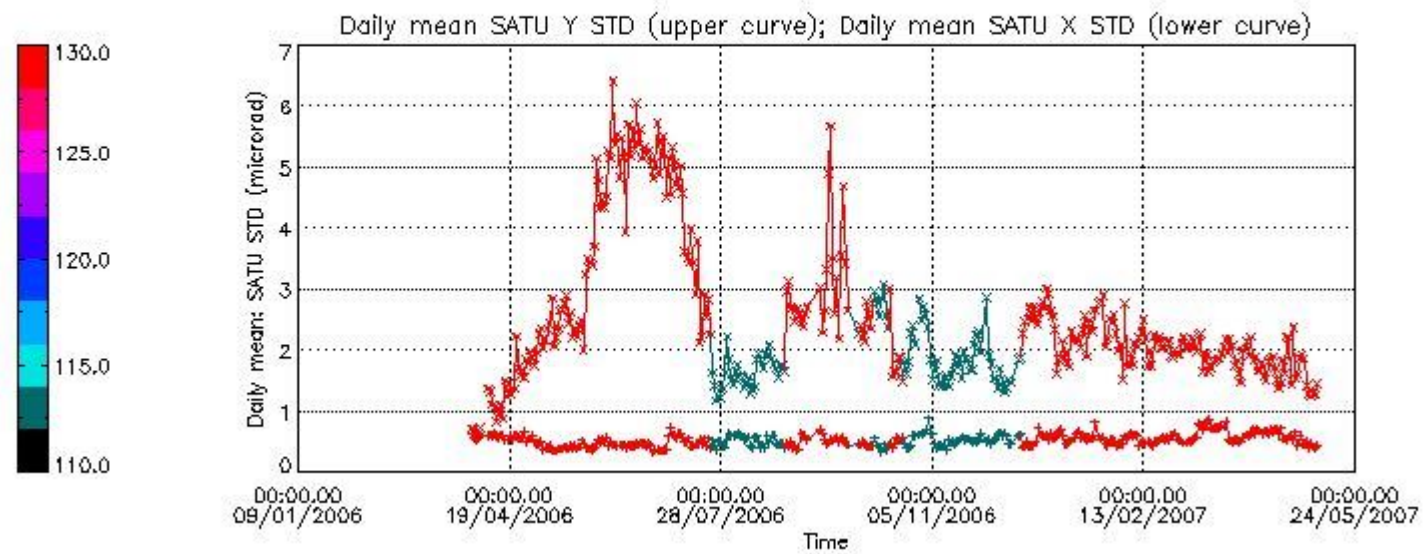
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

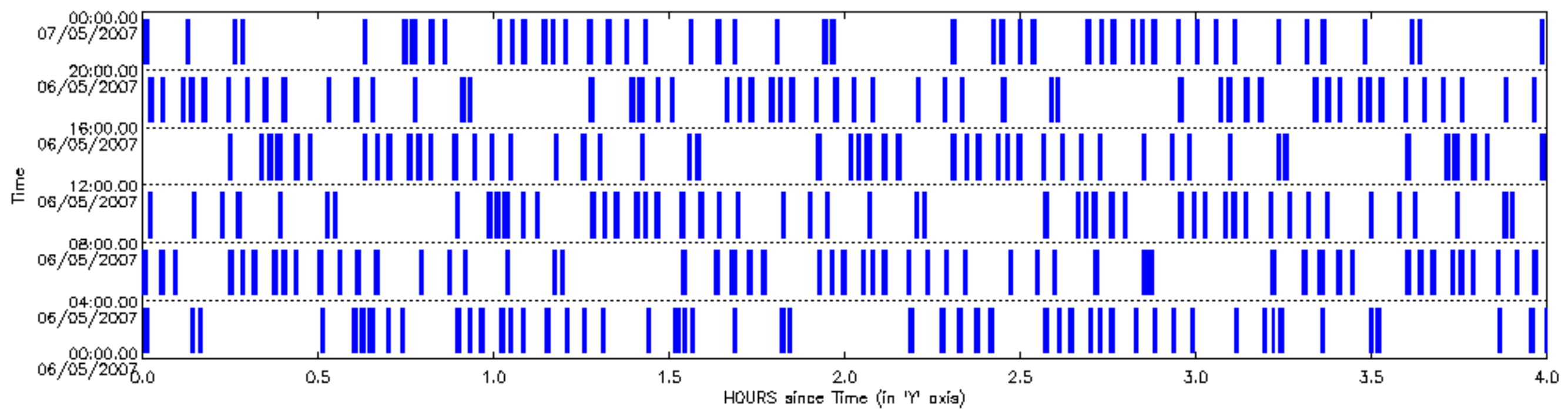
Lower curve: STD of SATU X axis

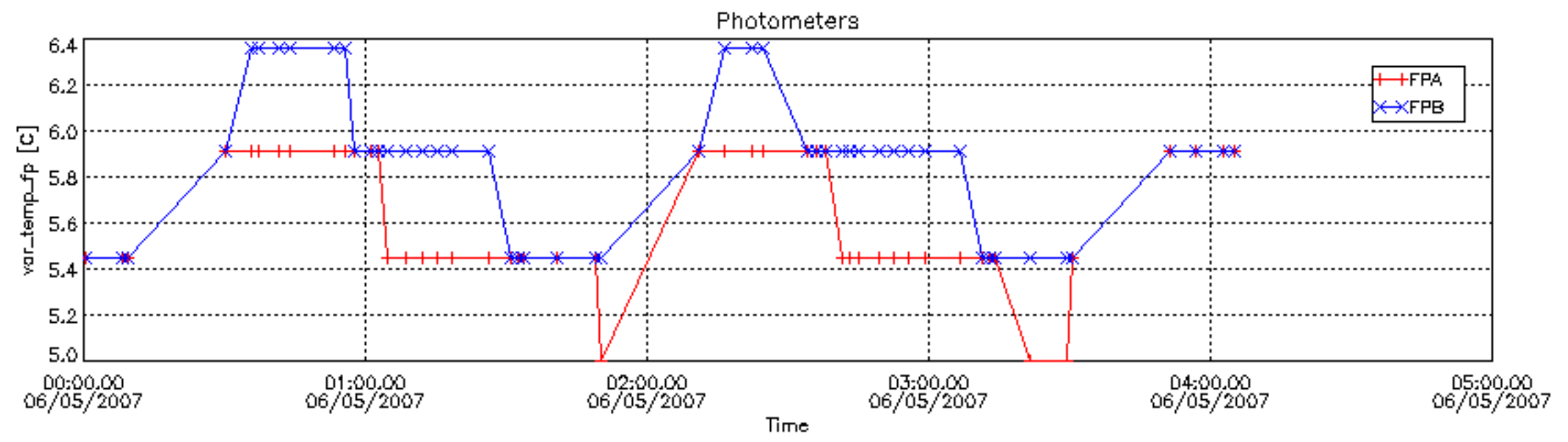
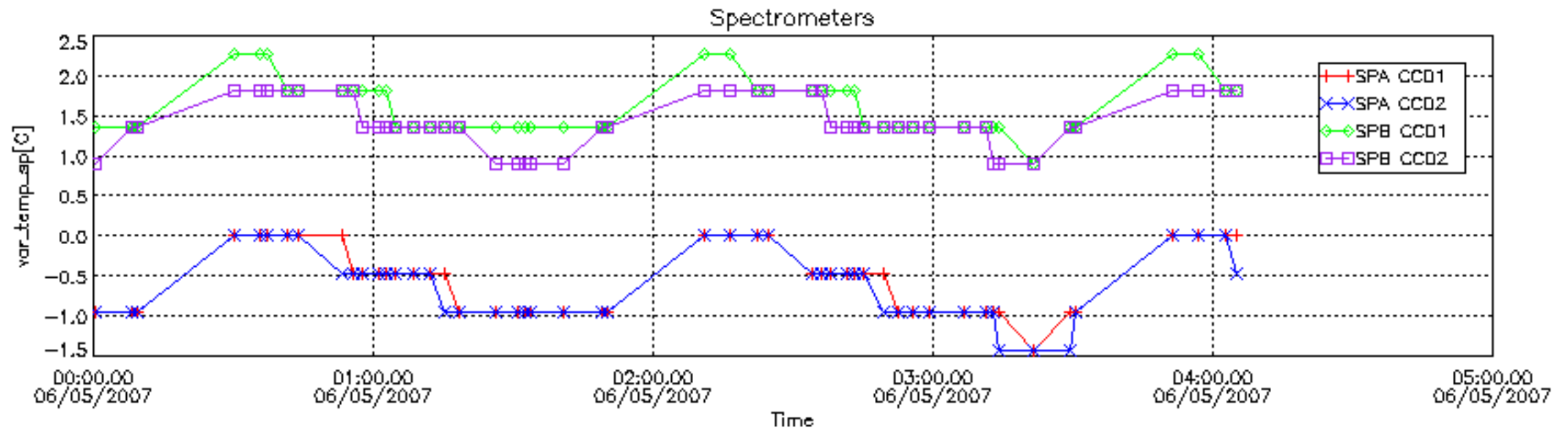


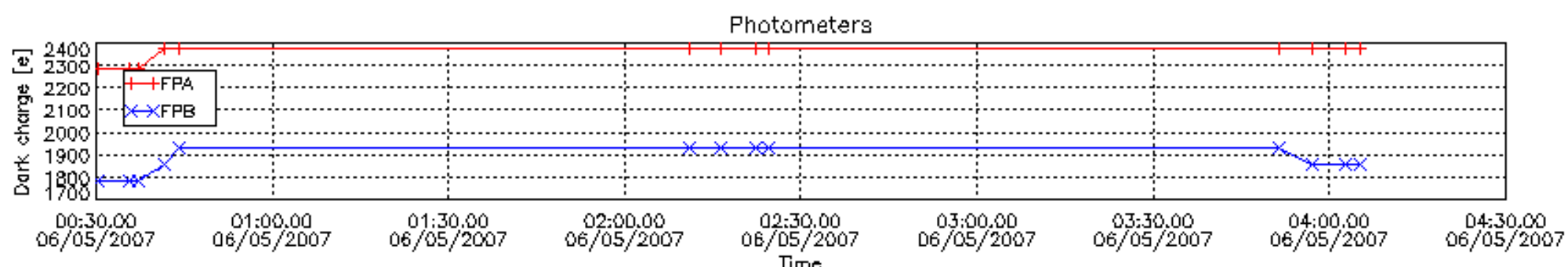
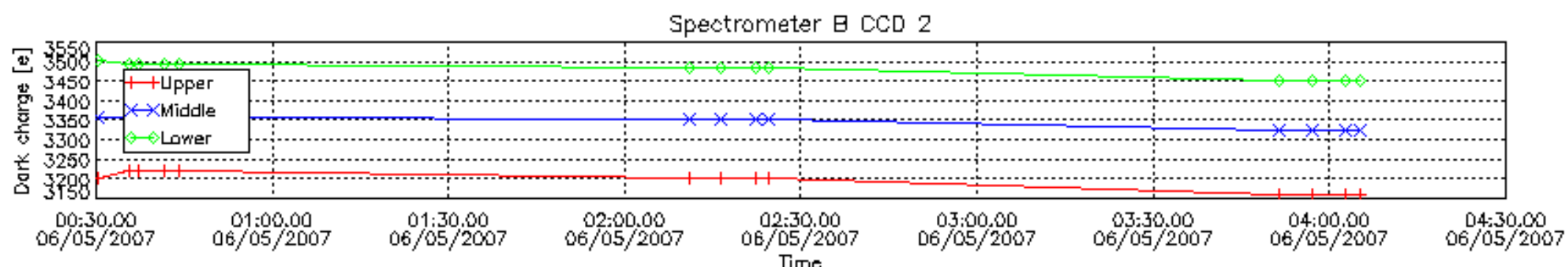
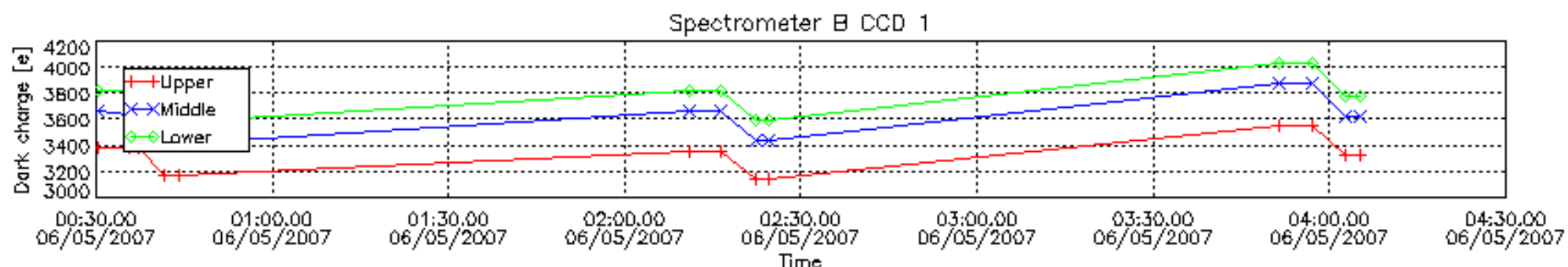
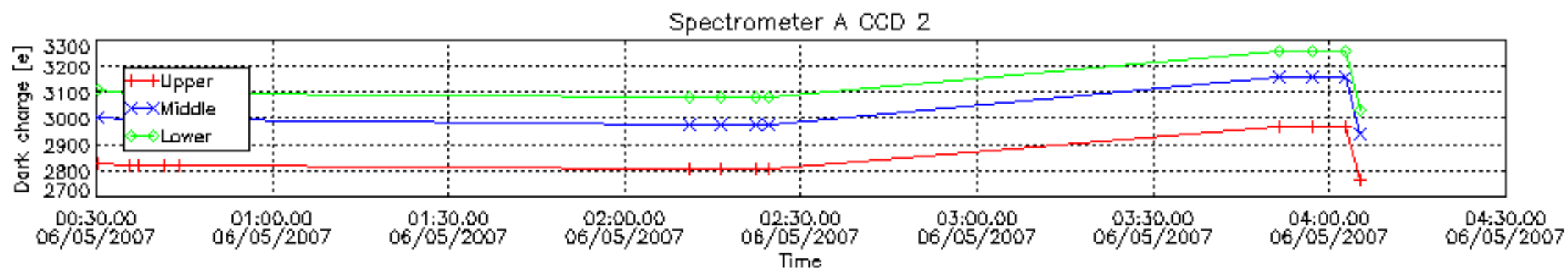
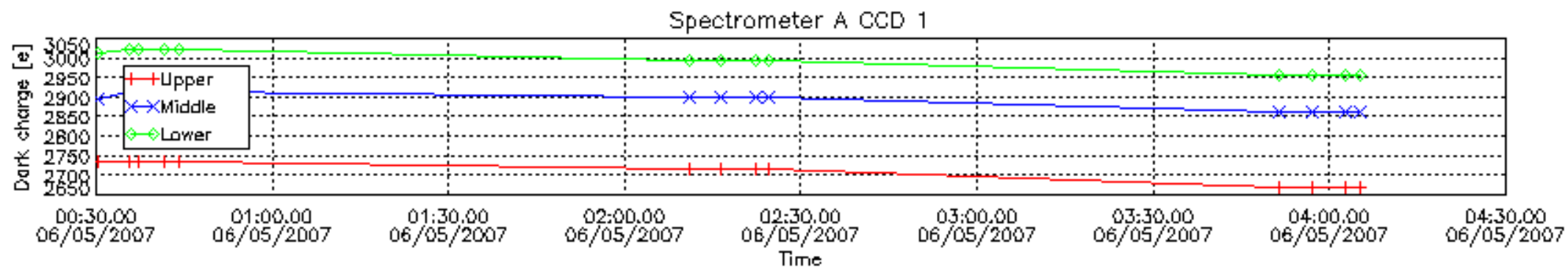
8. Auxiliary Data Files used for the production reported in section 2.4

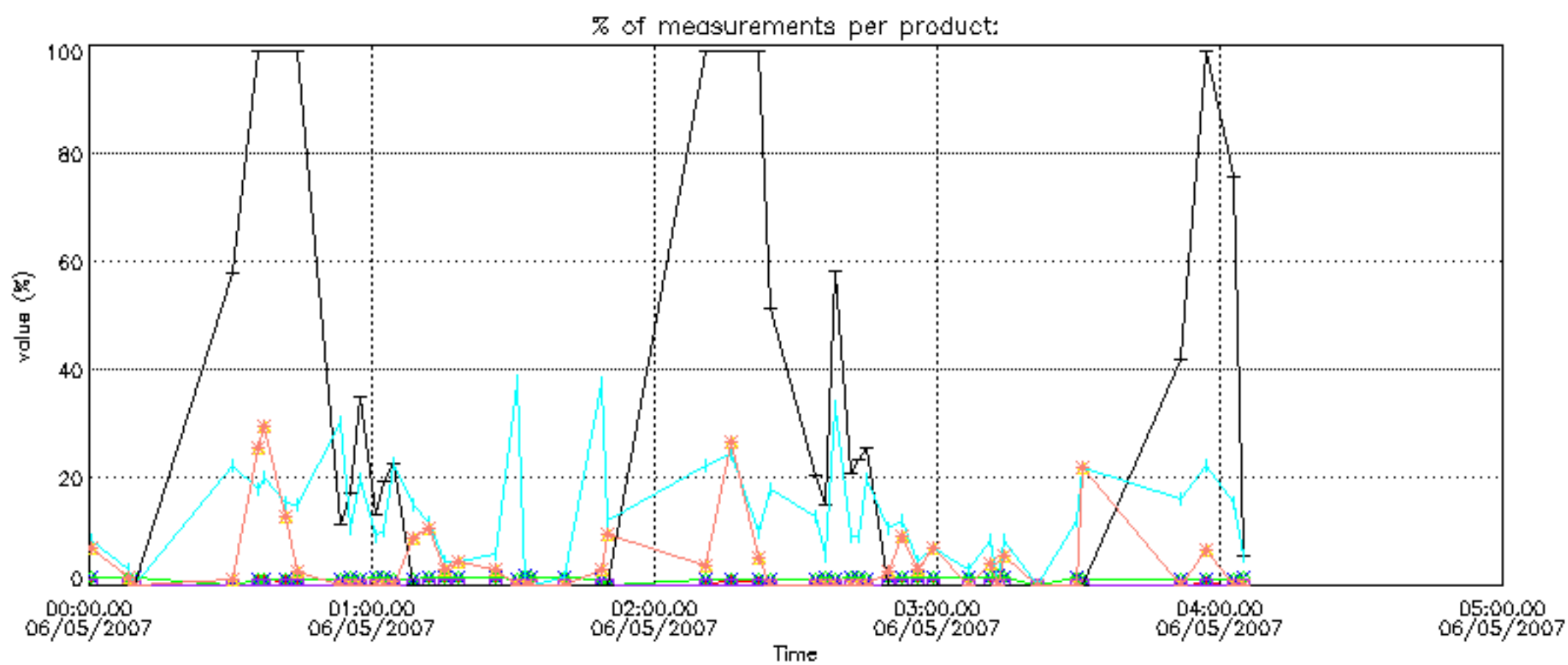
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	06-MAY-2007 00:00:13
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070503_074756_20070502_000000_20100101_000000	1	06-MAY-2007 00:00:13
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	06-MAY-2007 00:00:13
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	06-MAY-2007 00:00:13
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	06-MAY-2007 00:00:13
ECMWF_FILE	AUX_ECF_AXNECM20070505_062113_20070505_210000_20070506_090000	1	06-MAY-2007 00:00:13
ECMWF_FILE	AUX_ECF_AXNECM20070505_182114_20070506_030000_20070506_150000	45	06-MAY-2007 03:29:31
OPTIONAL_ECMWF_FILE	MISSING	1	06-MAY-2007 00:00:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070505_210350_000060572057_00472_27079_3424.N1	1	06-MAY-2007 00:00:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070505_225005_000057382057_00473_27080_3425.N1	5	06-MAY-2007 00:35:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070506_003102_000054192057_00474_27081_3426.N1	26	06-MAY-2007 02:10:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070506_020641_000041442057_00475_27082_3427.N1	45	06-MAY-2007 03:29:31

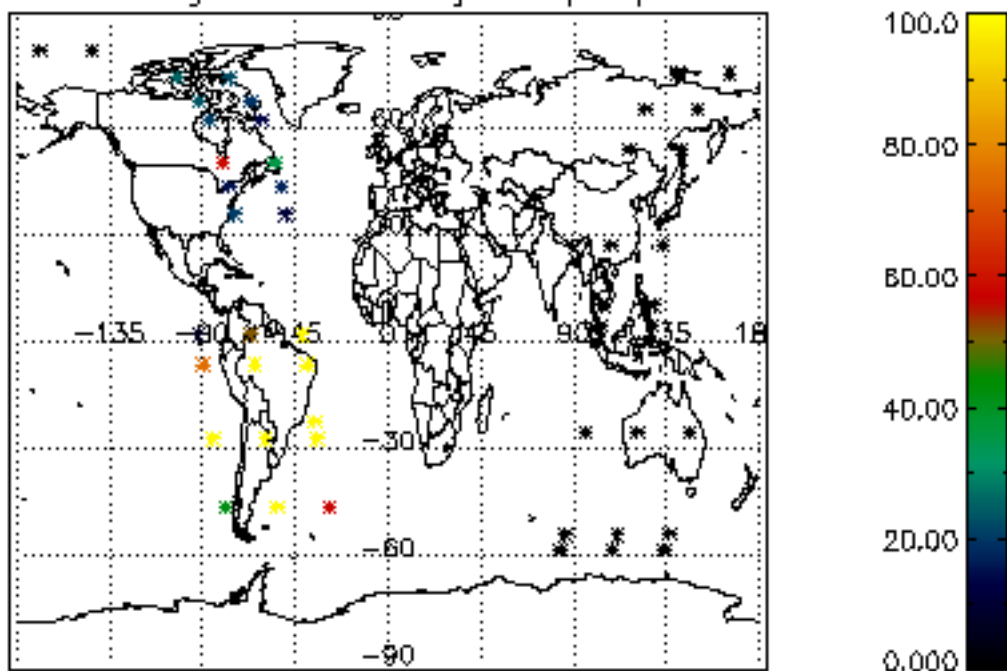




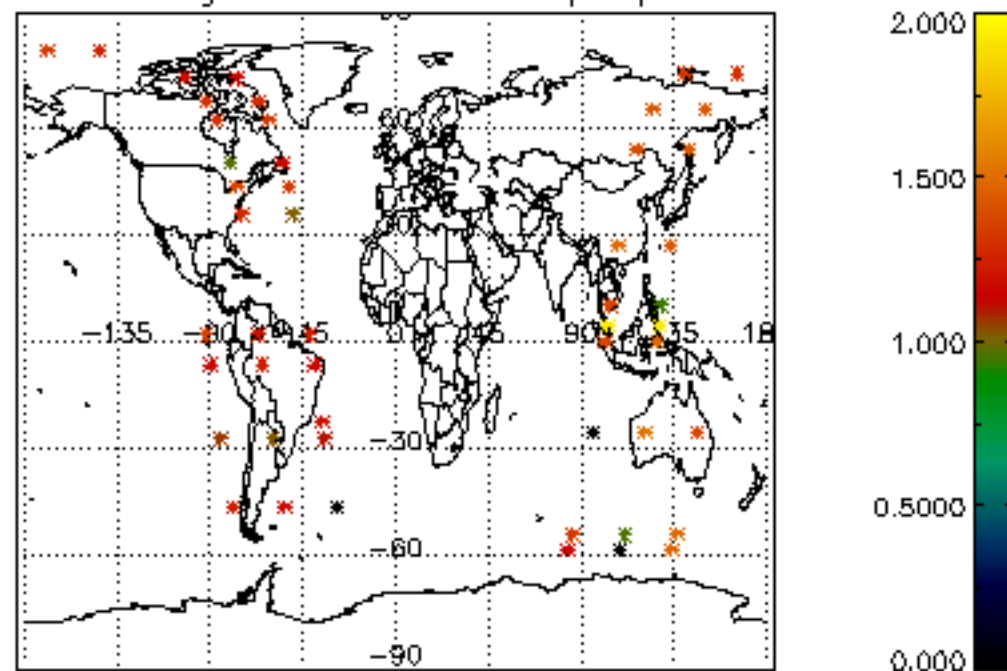




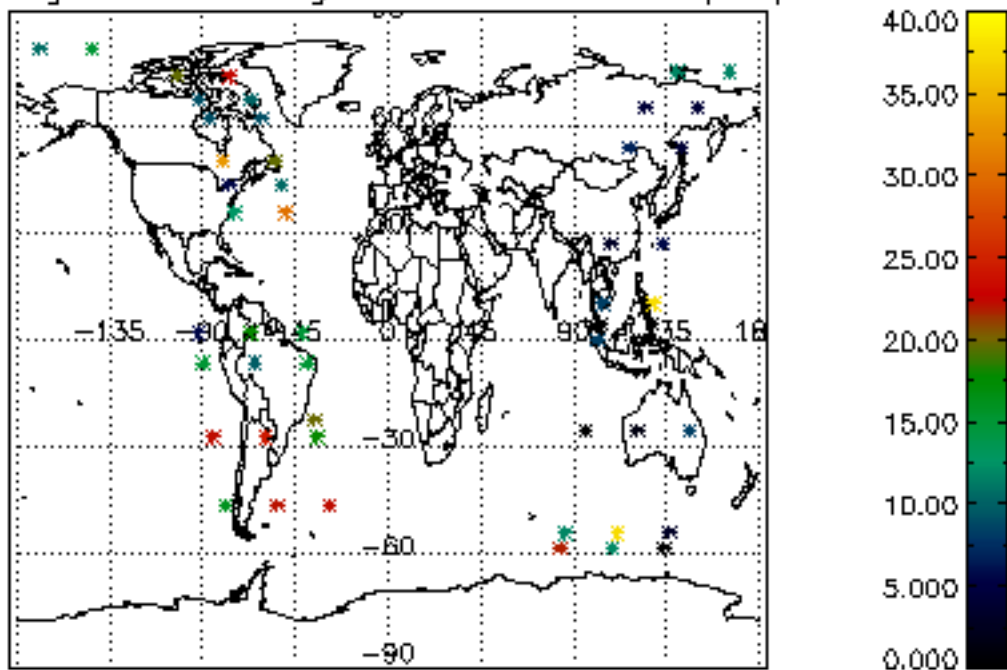
Percentage of cosmic ray hits per profile



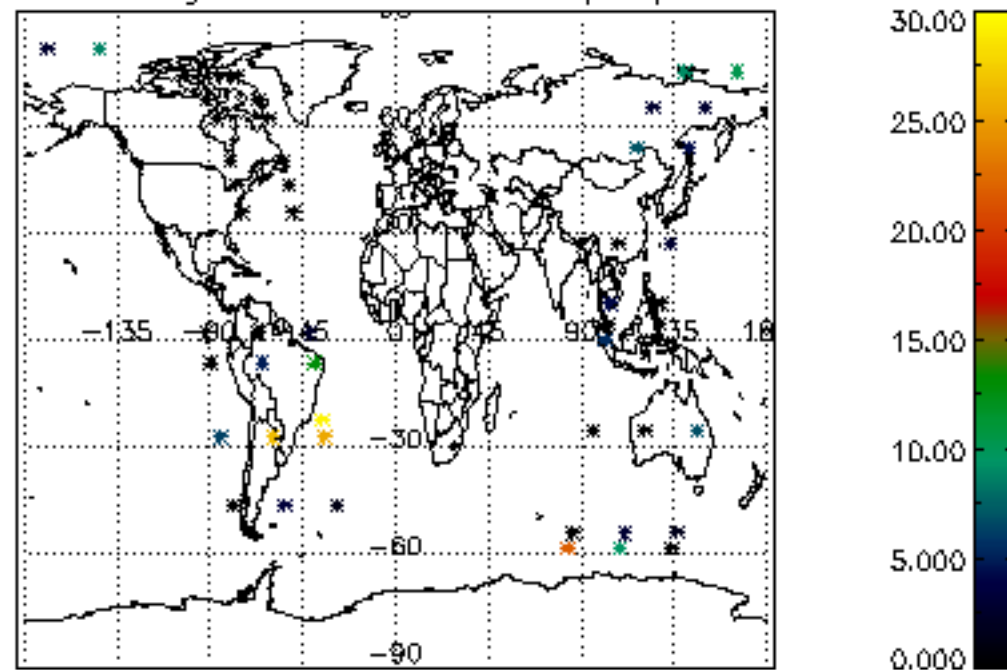
Percentage of datation errors per profile



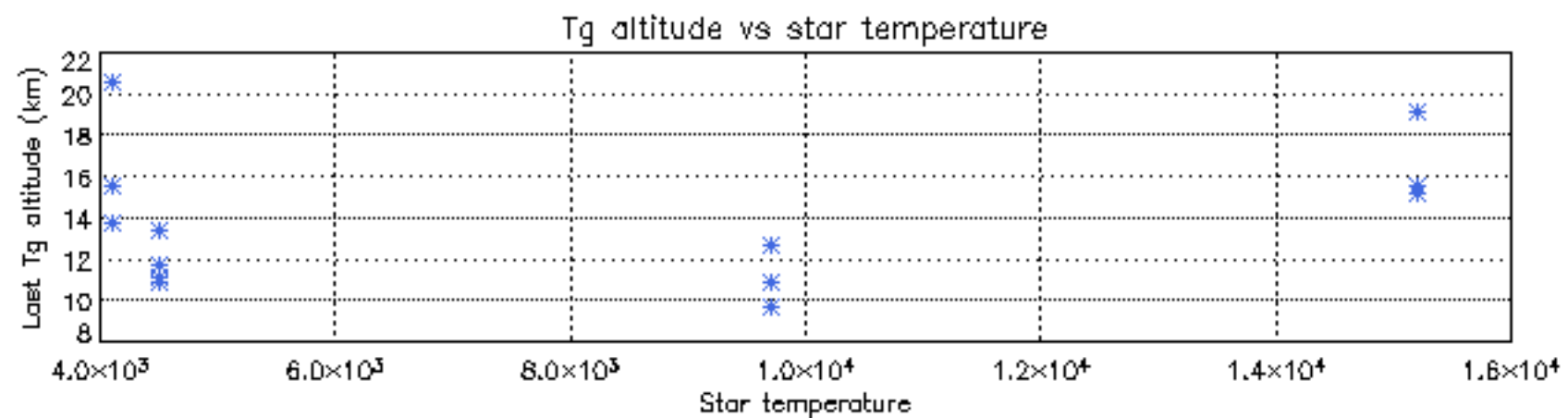
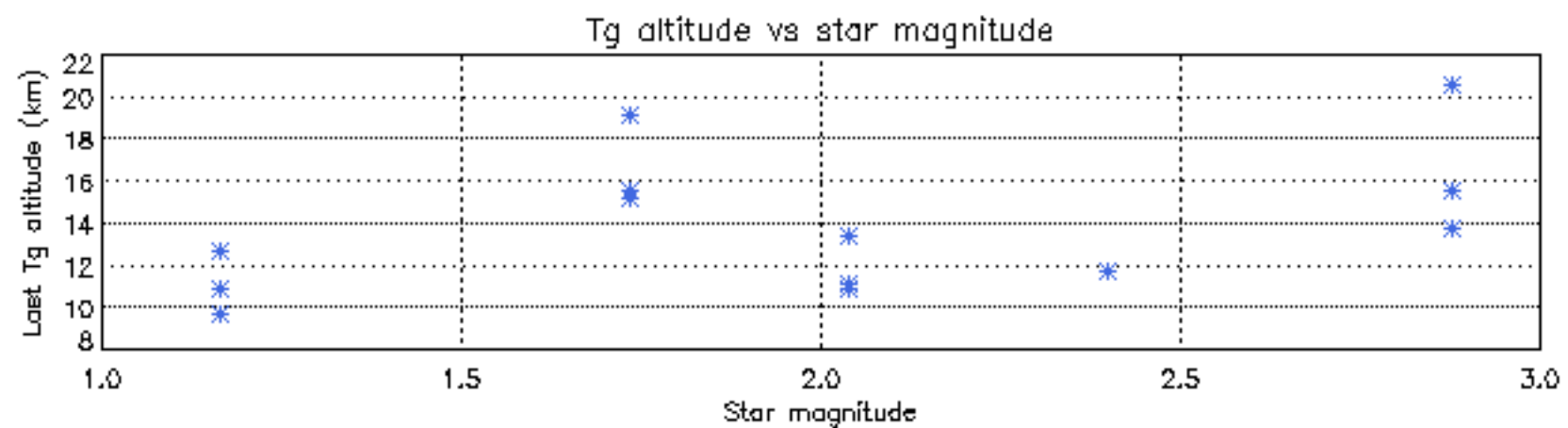
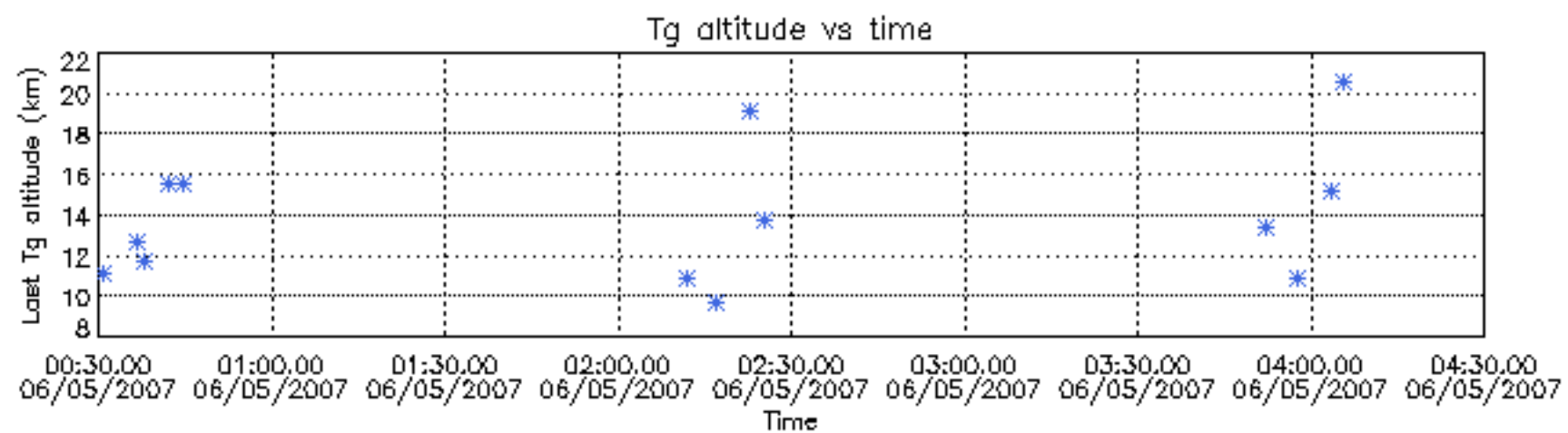
Percentage of star falling outside central band per profile



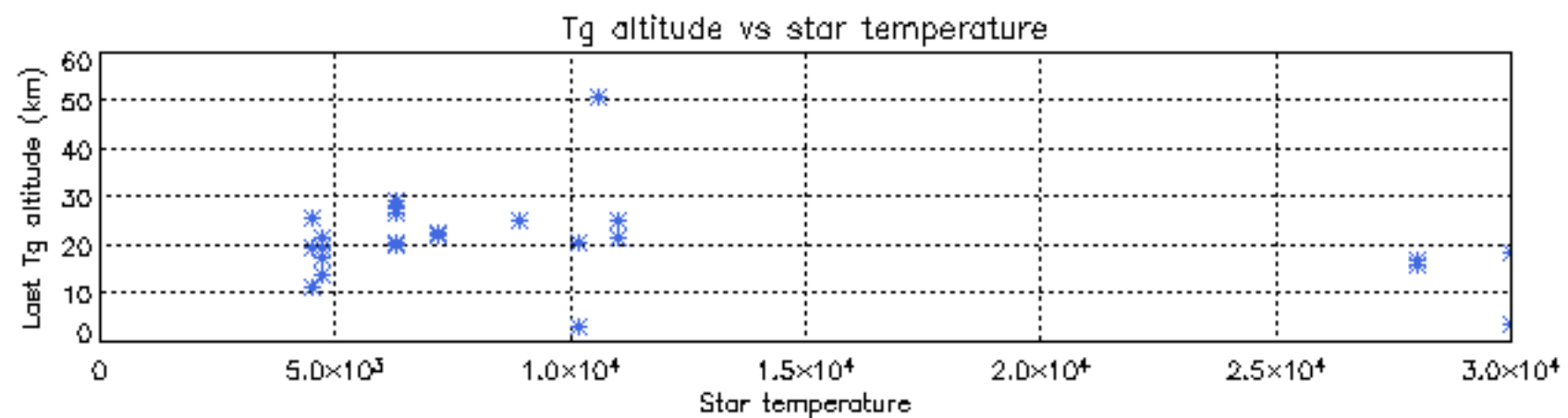
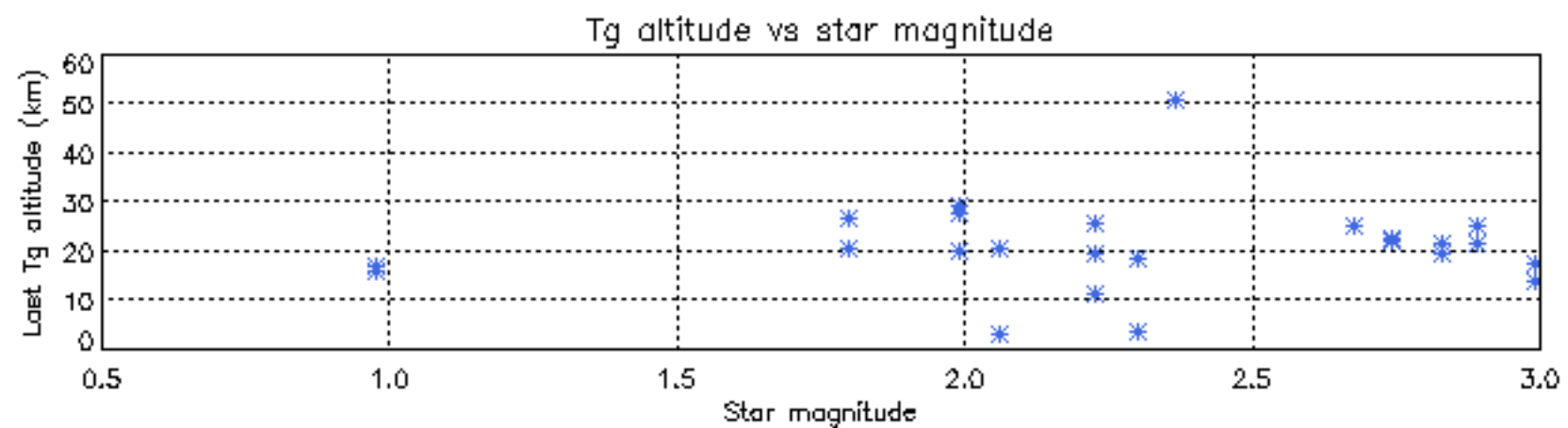
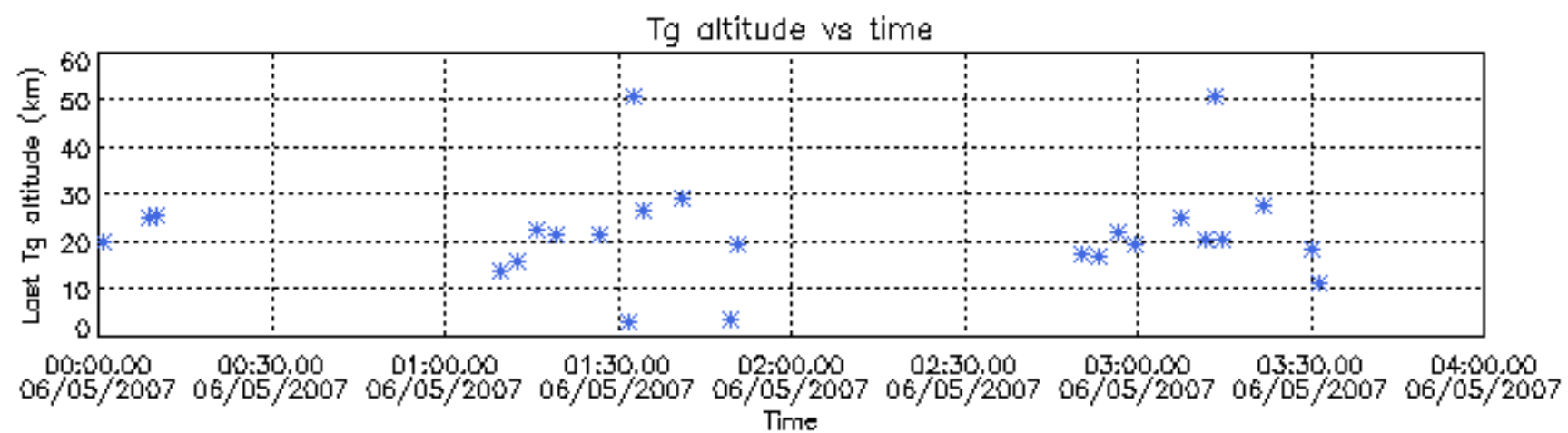
Percentage of saturation errors per profile

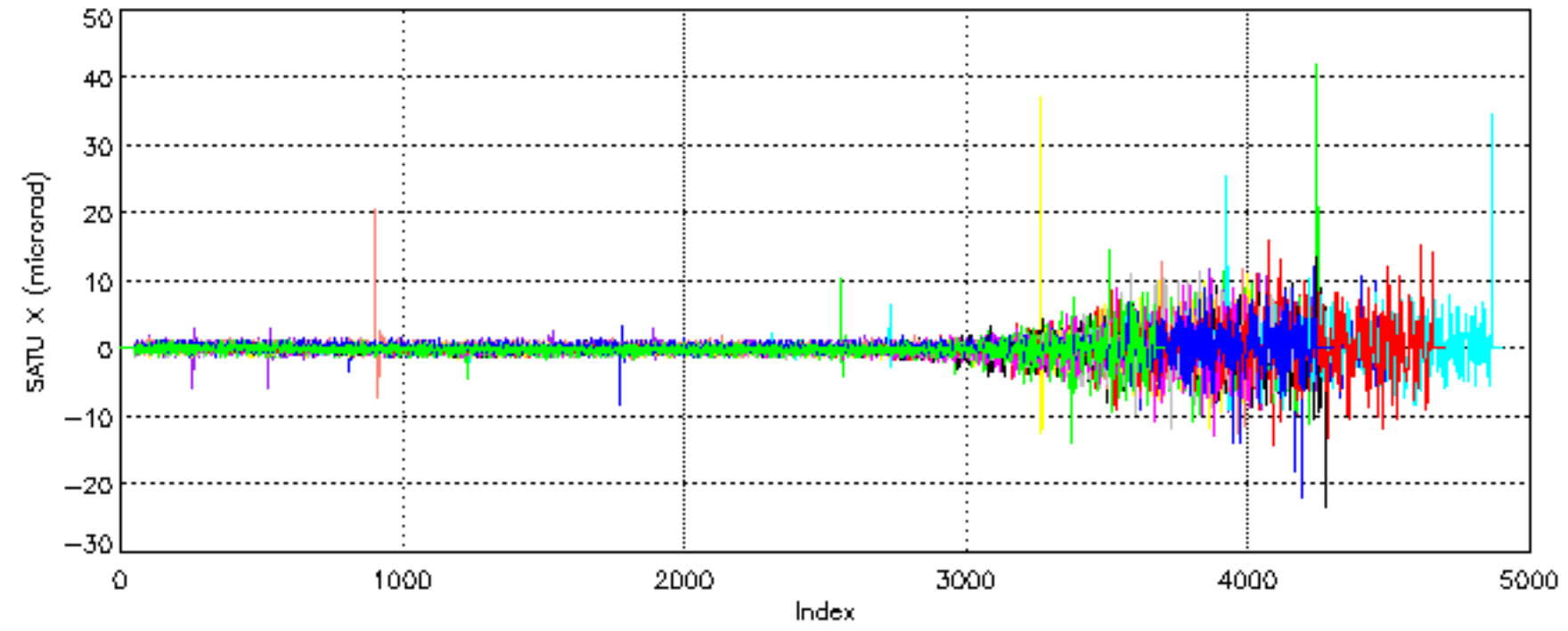


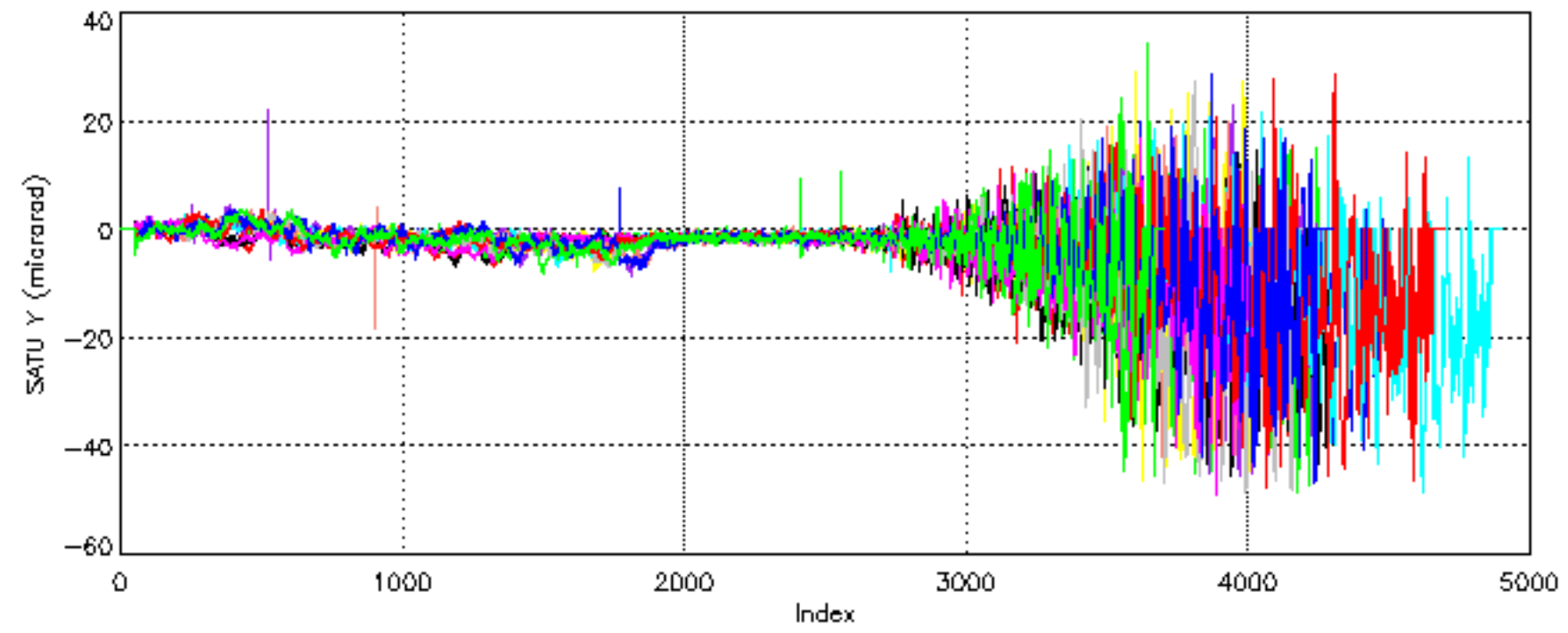
Tangent altitude at which the star is lost

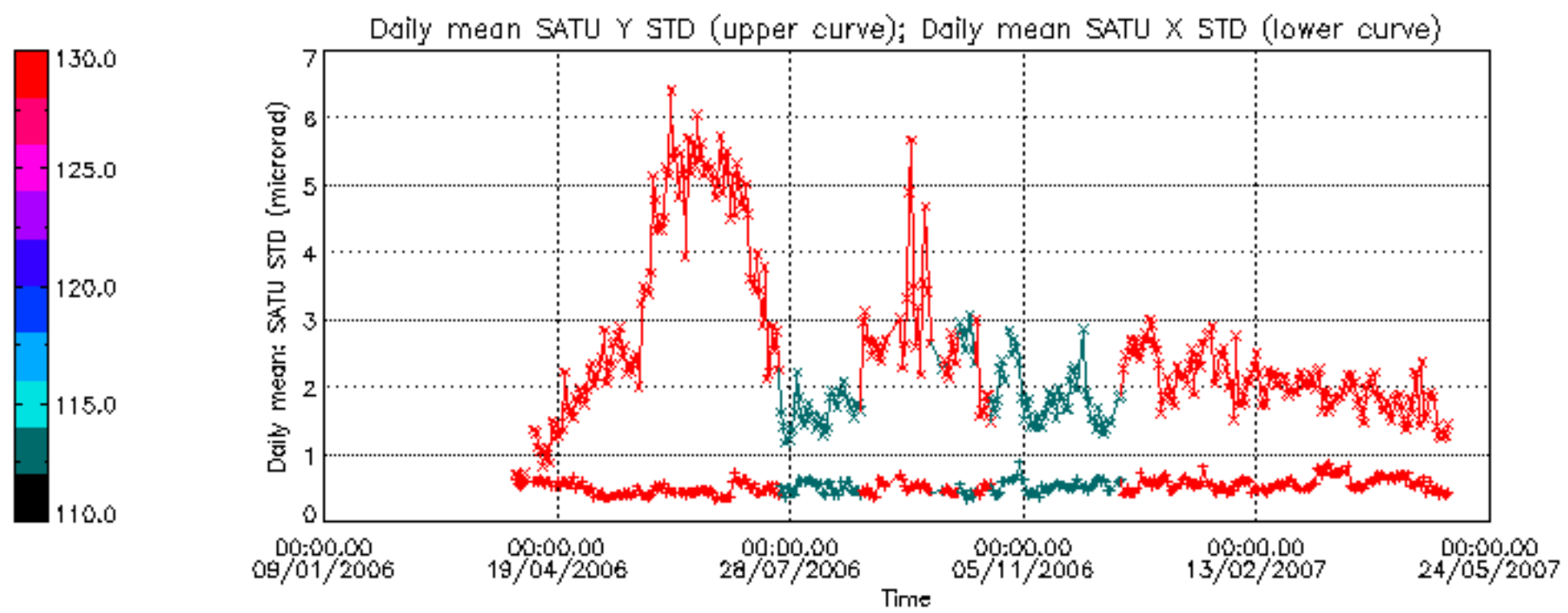


Tangent altitude at which the star is lost









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 2; -150.6; 01-MAY-2007 01:38:22; Dark ; 42.5; 31; Alp Gru ; 1.73; 15200;occ; 85; 0;27010
 3; 7.7; 01-MAY-2007 01:41:01; Dark ; 45.5; 148; Alp Tuc ; 2.88; 4100;occ; 91; 0;27011
 4; 177.8; 01-MAY-2007 01:43:51; Dark ; 35.0; 45; Alp Pav ; 1.94; 26000;occ; 70; 0;27011
 5; 575.4; 01-MAY-2007 01:50:28; Dark ; 42.0; 43; Alp TrA ; 1.91; 4250;occ; 84; 0;27011
 6; 707.1; 01-MAY-2007 01:52:40; Dark ; 42.5; 134; Bet TrA ; 2.81; 6600;occ; 85; 0;27011
 7; 831.2; 01-MAY-2007 01:54:44; Dark ; 43.5; 4; Alp1Cen ;-0.01; 5800;occ; 87; 0;27011
 8; 1036.0; 01-MAY-2007 01:58:09; Dark ; 42.0; 78; Alp Lup ; 2.30; 28000;occ; 84; 0;27011
 9; 1129.0; 01-MAY-2007 01:59:42; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;27011
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 13; 1895.7; 01-MAY-2007 02:12:29; Bright; 35.5; 121; 29Gam Vir ; 2.74; 7200;occ; 71; 0;27011
 14; 2095.3; 01-MAY-2007 02:15:48; Bright; 35.5; 138; 47Eps Vir ; 2.83; 4700;occ; 71; 0;27011
 15; 2559.8; 01-MAY-2007 02:23:33; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;27011
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 17; 2915.7; 01-MAY-2007 02:29:29; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;27011
 18; 2994.8; 01-MAY-2007 02:30:48; Bright; 35.5; 36; 50Alp UMA ; 1.80; 6300;occ; 71; 0;27011
 19; 3444.8; 01-MAY-2007 02:38:18; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;27011

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 2;-2036.1; 01-MAY-2007 02:47:33; Bright; 52.0; 68; 18Alp Cas ; 2.22; 4500;occ; 104; 0;27011
 3; -495.7; 01-MAY-2007 03:13:13; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;27011
 4; -369.7; 01-MAY-2007 03:15:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27011
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 6; 8.2; 01-MAY-2007 03:21:37; Dark ; 37.5; 148; Alp Tuc ; 2.88; 4100;occ; 75; 0;27012
 7; 178.5; 01-MAY-2007 03:24:27; Dark ; 32.0; 45; Alp Pav ; 1.94; 26000;occ; 64; 0;27012
 8; 575.9; 01-MAY-2007 03:31:05; Dark ; 41.5; 43; Alp TrA ; 1.91; 4250;occ; 83; 0;27012
 9; 707.7; 01-MAY-2007 03:33:17; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;27012
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 13; 1254.8; 01-MAY-2007 03:42:24; Dark ; 41.5; 54; 5The Cen ; 2.06; 4500;occ; 83; 0;27012
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 17; 2095.5; 01-MAY-2007 03:56:24; Bright; 35.5; 138; 47Eps Vir ; 2.83; 4700;occ; 71; 0;27012
 18; 2559.9; 01-MAY-2007 04:04:09; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;27012
 19; 2832.5; 01-MAY-2007 04:08:41; Bright; 36.0; 87; 64Gam UMA ; 2.43; 11000;occ; 72; 0;27012
 20; 2916.0; 01-MAY-2007 04:10:05; Bright; 35.5; 82; 48Bet UMa ; 2.37; 10600;occ; 71; 0;27012
 21; 2995.2; 01-MAY-2007 04:11:24; Bright; 36.5; 36; 50Alp UMA ; 1.80; 6300;occ; 73; 0;27012
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 6; 8.5; 01-MAY-2007 05:02:13; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;27013
 7; 179.1; 01-MAY-2007 05:05:04; Dark ; 32.0; 45; Alp Pav ; 1.94; 26000;occ; 64; 0;27013
 8; 576.2; 01-MAY-2007 05:11:41; Dark ; 41.5; 43; Alp TrA ; 1.91; 4250;occ; 83; 0;27013
 9; 707.9; 01-MAY-2007 05:13:53; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;27013
 10; 831.8; 01-MAY-2007 05:15:57; Dark ; 43.0; 4; Alp1Cen ;-0.01; 5800;occ; 86; 0;27013
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 21; 2995.5; 01-MAY-2007 05:52:00; Bright; 36.5; 36; 50Alp UMA ; 1.80; 6300;occ; 73; 0;27013
 22; 3444.9; 01-MAY-2007 05:59:30; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27013

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3; 1257.2; 01-MAY-2007 20:28:26; Dark ; 44.5; 54; 5The Cen ; 2.06; 4500;occ; 89; 0;27022
4; 1514.0; 01-MAY-2007 20:32:42; Dark ; 43.5; 169; 46Gam Hya ; 2.99; 4700;occ; 87; 0;27022
5; 1713.0; 01-MAY-2007 20:36:01; Bright; 38.0; 15; 67Alp Vir ; 0.98; 28000;occ; 76; 0;27022
6; 1897.6; 01-MAY-2007 20:39:06; Bright; 36.0; 121; 29Gam Vir ; 2.74; 7200;occ; 72; 0;27022
7; 2096.1; 01-MAY-2007 20:42:25; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;27022
8; 2559.8; 01-MAY-2007 20:50:08; Bright; 52.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 104; 0;27022
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10; 2918.7; 01-MAY-2007 20:56:07; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;27022
11; 2997.5; 01-MAY-2007 20:57:26; Bright; 52.0; 36; 50Alp UMa ; 1.80; 6300;occ; 104; 0;27022
12; 3444.8; 01-MAY-2007 21:04:53; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;27022
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3; -143.9; 01-MAY-2007 21:45:40; Dark ; 42.0; 31; Alp Gru ; 1.73; 15200;occ; 84; 0;27022
4; 12.1; 01-MAY-2007 21:48:16; Dark ; 43.0; 148; Alp Tuc ; 2.88; 4100;occ; 86; 0;27023
5; 579.7; 01-MAY-2007 21:57:44; Dark ; 39.5; 43; Alp TrA ; 1.91; 4250;occ; 79; 0;27023
6; 711.6; 01-MAY-2007 21:59:56; Dark ; 36.5; 134; Bet TrA ; 2.81; 6600;occ; 73; 0;27023
7; 834.5; 01-MAY-2007 22:01:59; Dark ; 50.0; 4; Alp1Cen ; -0.01; 5800;occ; 100; 0;27023
8; 1040.0; 01-MAY-2007 22:05:24; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;27023
9; 1132.5; 01-MAY-2007 22:06:57; Dark ; 41.0; 81; Eta Cen ; 2.36; 28000;occ; 82; 0;27023
10; 1257.6; 01-MAY-2007 22:09:02; Dark ; 43.0; 54; 5The Cen ; 2.06; 4500;occ; 86; 0;27023
11; 1514.0; 01-MAY-2007 22:13:18; Dark ; 39.5; 169; 46Gam Hya ; 2.99; 4700;occ; 79; 0;27023
12; 1713.1; 01-MAY-2007 22:16:37; Bright; 37.5; 15; 67Alp Vir ; 0.98; 28000;occ; 75; 0;27023
13; 1897.7; 01-MAY-2007 22:19:42; Bright; 35.5; 121; 29Gam Vir ; 2.74; 7200;occ; 71; 0;27023
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18; 2997.7; 01-MAY-2007 22:38:02; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;27023
19; 3444.8; 01-MAY-2007 22:45:29; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27023
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4; 12.4; 01-MAY-2007 23:28:53; Dark ; 37.0; 148; Alp Tuc ; 2.88; 4100;occ; 74; 0;27024
5; 580.0; 01-MAY-2007 23:38:20; Dark ; 42.0; 43; Alp TrA ; 1.91; 4250;occ; 84; 0;27024
6; 711.9; 01-MAY-2007 23:40:32; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;27024
7; 834.7; 01-MAY-2007 23:42:35; Dark ; 45.0; 4; Alp1Cen ; -0.01; 5800;occ; 90; 0;27024
8; 1040.2; 01-MAY-2007 23:46:00; Dark ; 40.0; 78; Alp Lup ; 2.30; 28000;occ; 80; 0;27024
9; 1132.8; 01-MAY-2007 23:47:33; Dark ; 40.0; 81; Eta Cen ; 2.36; 28000;occ; 80; 0;27024
10; 1257.7; 01-MAY-2007 23:49:38; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;27024
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13; 1897.9; 02-MAY-2007 00:00:18; Bright; 36.5; 121; 29Gam Vir ; 2.74; 7200;occ; 73; 0;27024
14; 2096.3; 02-MAY-2007 00:03:36; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;27024
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16; 2919.3; 02-MAY-2007 00:17:20; Bright; 37.0; 82; 48Bet UMa ; 2.37; 10600;occ; 74; 0;27024
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22; 7548.7; 01-MAY-2007 08:48:30; Dark ; 45.5; 169; 46Gam Hya ; 2.99; 4700;occ; 91; 0;27014
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19; 7291.8; 01-MAY-2007 10:24:49; Dark ; 44.0; 54; 5The Cen ; 2.06; 4500;occ; 88; 0;27015
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 9; 2098.5; 03-MAY-2007 21:19:49; Bright; 35.5; 138; 47Eps Vir ; 2.83; 4700;occ; 71; 0;27051
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 11; 2838.8; 03-MAY-2007 21:32:09; Bright; 33.0; 87; 64Gam UMa ; 2.43; 11000;occ; 66; 0;27051
 12; 2927.6; 03-MAY-2007 21:33:38; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;27051
 13; 3004.5; 03-MAY-2007 21:34:55; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;27051
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 15; 3923.1; 03-MAY-2007 21:50:14; Bright; 33.5; 110; 37Del Cas ; 2.68; 8900;occ; 67; 0;27051
 16; 4003.3; 03-MAY-2007 21:51:34; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;27051

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 4; 590.0; 03-MAY-2007 22:35:16; Dark ; 41.0; 43; Alp TrA ; 1.91; 4250;occ; 82; 0;27052
 5; 721.8; 03-MAY-2007 22:37:28; Dark ; 36.5; 134; Bet TrA ; 2.81; 6600;occ; 73; 0;27052
 6; 841.9; 03-MAY-2007 22:39:28; Dark ; 52.0; 4; Alp1Cen ; -0.01; 5800;occ; 104; 0;27052
 7; 1048.9; 03-MAY-2007 22:42:55; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;27052
 8; 1141.1; 03-MAY-2007 22:44:27; Dark ; 41.0; 81; Eta Cen ; 2.36; 28000;occ; 82; 0;27052
 9; 1264.4; 03-MAY-2007 22:46:31; Dark ; 44.0; 54; 5The Cen ; 2.06; 4500;occ; 88; 0;27052
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 12; 1902.6; 03-MAY-2007 22:57:09; Bright; 35.5; 121; 29Gam Vir ; 2.74; 7200;occ; 71; 0;27052
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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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 19; 3923.4; 03-MAY-2007 23:30:50; Bright; 45.5; 110; 37Del Cas ; 2.68; 8900;occ; 91; 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
 5; 590.3; 04-MAY-2007 00:15:53; Dark ; 40.0; 43; Alp TrA ; 1.91; 4250;occ; 80; 0;27053
 6; 722.1; 04-MAY-2007 00:18:04; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;27053
 7; 842.2; 04-MAY-2007 00:20:04; Dark ; 44.5; 4; Alp1Cen ; -0.01; 5800;occ; 89; 0;27053
 8; 1049.2; 04-MAY-2007 00:23:31; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;27053

9; 1141.4; 04-MAY-2007 00:25:04; Dark ; 39.5; 81; Eta Cen ; 2.36; 28000;occ; 79; 0;27053
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 12; 1716.7; 04-MAY-2007 00:34:39; Bright; 39.0; 15; 67Alp Vir ; 0.98; 28000;occ; 78; 0;27053
 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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 15; 2559.9; 04-MAY-2007 00:48:42; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;27053
 16; 2839.2; 04-MAY-2007 00:53:21; Bright; 34.5; 87; 64Gam UMa ; 2.43; 11000;occ; 69; 0;27053
 17; 2928.2; 04-MAY-2007 00:54:50; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;27053
 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
 20; 3923.5; 04-MAY-2007 01:11:26; Bright; 46.0; 110; 37Del Cas ; 2.68; 8900;occ; 92; 0;27053
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 5; -132.4; 03-MAY-2007 07:17:51; Dark ; 40.5; 31; Alp Gru ; 1.73; 15200;occ; 81; 0;27042
 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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 11; 1138.5; 03-MAY-2007 07:39:02; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;27043
 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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Problem occurred when reading packet number 377!

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 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
 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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 3; 2097.9; 03-MAY-2007 07:55:01; Bright; 35.5; 138; 47Eps Vir ; 2.83; 4700;occ; 71; 0;27043
 4; 2559.9; 03-MAY-2007 08:02:43; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;27043
 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
 8; 3445.1; 03-MAY-2007 08:17:28; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;27043
 9; 3922.2; 03-MAY-2007 08:25:25; Bright; 34.0; 110; 37Del Cas ; 2.68; 8900;occ; 68; 0;27043
 10; 4003.0; 03-MAY-2007 08:26:46; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;27043
 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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 13; 5904.1; 03-MAY-2007 08:58:27; Dark ; 44.0; 31; Alp Gru ; 1.73; 15200;occ; 88; 0;27043
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 15; 6623.1; 03-MAY-2007 09:10:26; Dark ; 38.0; 43; Alp TrA ; 1.91; 4250;occ; 76; 0;27043
 16; 6755.1; 03-MAY-2007 09:12:38; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;27043
 17; 6876.0; 03-MAY-2007 09:14:39; Dark ; 50.5; 4; Alp1Cen ; -0.01; 5800;occ; 101; 0;27043
 18; 7082.5; 03-MAY-2007 09:18:05; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;27043
 19; 7174.8; 03-MAY-2007 09:19:38; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;27043
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 22; 7751.8; 03-MAY-2007 09:29:15; Bright; 35.5; 15; 67Alp Vir ; 0.98; 28000;occ; 71; 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
6; 2925.3; 03-MAY-2007 09:49:24; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;27044
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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9; 3922.3; 03-MAY-2007 10:06:01; Bright; 35.5; 110; 37Del Cas ; 2.68; 8900;occ; 71; 0;27044
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14; 6056.1; 03-MAY-2007 10:41:35; Dark ; 43.0; 148; Alp Tuc ; 2.88; 4100;occ; 86; 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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19; 7175.0; 03-MAY-2007 11:00:14; Dark ; 38.5; 81; Eta Cen ; 2.36; 28000;occ; 77; 0;27044
20; 7298.7; 03-MAY-2007 11:02:18; Dark ; 41.5; 54; 5The Cen ; 2.06; 4500;occ; 83; 0;27044
21; 7553.6; 03-MAY-2007 11:06:33; Bright; 37.0; 169; 46Gam Hya ; 2.99; 4700;occ; 74; 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
5; 2837.8; 03-MAY-2007 11:28:33; Bright; 35.0; 87; 64Gam UMa ; 2.43; 11000;occ; 70; 0;27045
6; 2925.6; 03-MAY-2007 11:30:00; Bright; 39.5; 82; 48Bet UMa ; 2.37; 10600;occ; 79; 0;27045
7; 3003.0; 03-MAY-2007 11:31:18; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;27045
8; 3445.0; 03-MAY-2007 11:38:40; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27045
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6; 588.0; 03-MAY-2007 12:31:39; Dark ; 41.0; 43; Alp TrA ; 1.91; 4250;occ; 82; 0;27046
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23; 5250.1; 05-MAY-2007 01:01:55; Dark ; 41.5; 52; 16Bet Cet ; 2.04; 4500;occ; 83; 0;27067

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2; -2031.9; 04-MAY-2007 06:14:34; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;27056
3; -472.6; 04-MAY-2007 06:40:34; Dark ; 42.5; 18; 24Alp PsA ; 1.17; 9700;occ; 85; 0;27056
4; -301.2; 04-MAY-2007 06:43:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27056
5; -124.1; 04-MAY-2007 06:46:22; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;27056
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
10; 1050.5; 04-MAY-2007 07:05:57; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;27057
11; 1142.6; 04-MAY-2007 07:07:29; Dark ; 38.5; 81; Eta Cen ; 2.36; 28000;occ; 77; 0;27057
12; 1265.5; 04-MAY-2007 07:09:32; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;27057
13; 1519.7; 04-MAY-2007 07:13:46; Bright; 36.5; 169; 46Gam Hya ; 2.99; 4700;occ; 73; 0;27057
14; 1717.5; 04-MAY-2007 07:17:04; Bright; 27.0; 15; 67Alp Vir ; 0.98; 28000;occ; 54; 0;27057

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2; -2031.9; 04-MAY-2007 06:14:34; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;27056

3; -472.6; 04-MAY-2007 06:40:34; Dark ; 34.0; 18; 24Alp PsA ; 1.17; 9700;occ; 68; 0;27056

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2; 591.8; 04-MAY-2007 06:58:18; Dark ; 20.0; 43; Alp TrA ; 1.91; 4250;occ; 40; 0;27057
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2; 723.7; 04-MAY-2007 07:00:30; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;27057
3; 843.3; 04-MAY-2007 07:02:29; Dark ; 38.0; 4; Alp1Cen ; -0.01; 5800;occ; 76; 0;27057
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2; 1142.6; 04-MAY-2007 07:07:29; Dark ; 38.5; 81; Eta Cen ; 2.36; 28000;occ; 77; 0;27057
3; 1265.5; 04-MAY-2007 07:09:32; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;27057
4; 1519.7; 04-MAY-2007 07:13:46; Bright; 36.5; 169; 46Gam Hya ; 2.99; 4700;occ; 73; 0;27057
5; 1717.5; 04-MAY-2007 07:17:04; Bright; 27.0; 15; 67Alp Vir ; 0.98; 28000;occ; 54; 0;27057
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2; 1903.8; 04-MAY-2007 07:20:10; Bright; 35.0; 121; 29Gam Vir ; 2.74; 7200;occ; 70; 0;27057
3; 2099.2; 04-MAY-2007 07:23:25; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;27057
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3; 2099.2; 04-MAY-2007 07:23:25; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;27057
4; 2560.1; 04-MAY-2007 07:31:06; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;27057
5; 2839.9; 04-MAY-2007 07:35:46; Bright; 34.0; 87; 64Gam UMa ; 2.43; 11000;occ; 68; 0;27057
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
10; 4004.0; 04-MAY-2007 07:55:10; Bright; 46.5; 68; 18Alp Cas ; 2.22; 4500;occ; 93; 0;27057
11; 5564.0; 04-MAY-2007 08:21:10; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;27057
12; 5735.0; 04-MAY-2007 08:24:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27057
13; 5912.4; 04-MAY-2007 08:26:58; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;27057
14; 6061.1; 04-MAY-2007 08:29:27; Dark ; 40.0; 148; Alp Tuc ; 2.88; 4100;occ; 80; 0;27057
15; 6628.2; 04-MAY-2007 08:38:54; Dark ; 44.5; 43; Alp TrA ; 1.91; 4250;occ; 89; 0;27057
16; 6760.0; 04-MAY-2007 08:41:06; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;27057
17; 6879.5; 04-MAY-2007 08:43:06; Dark ; 51.5; 4; Alp1Cen ; -0.01; 5800;occ; 103; 0;27057
18; 7086.8; 04-MAY-2007 08:46:33; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;27057
19; 7178.9; 04-MAY-2007 08:48:05; Dark ; 39.5; 81; Eta Cen ; 2.36; 28000;occ; 79; 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
22; 7753.5; 04-MAY-2007 08:57:40; Bright; 37.0; 15; 67Alp Vir ; 0.98; 28000;occ; 74; 0;27057
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2; 2839.9; 04-MAY-2007 07:35:46; Bright; 34.0; 87; 64Gam UMa ; 2.43; 11000;occ; 68; 0;27057
3; 2929.5; 04-MAY-2007 07:37:16; Bright; 34.0; 82; 48Bet UMa ; 2.37; 10600;occ; 68; 0;27057
4; 3006.2; 04-MAY-2007 07:38:32; Bright; 15.5; 36; 50Alp UMa ; 1.80; 6300;occ; 31; 0;27057
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3; -2111.9; 04-MAY-2007 07:53:50; Bright; 34.0; 110; 37Del Cas ; 2.68; 8900;occ; 68; 0;27057
4; -2031.9; 04-MAY-2007 07:55:10; Bright; 46.5; 68; 18Alp Cas ; 2.22; 4500;occ; 93; 0;27057
5; -471.9; 04-MAY-2007 08:21:10; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;27057
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2; 2560.2; 04-MAY-2007 09:11:42; Bright; 35.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 71; 0;27058
3; 2840.3; 04-MAY-2007 09:16:22; Bright; 36.0; 87; 64Gam UMa ; 2.43; 11000;occ; 72; 0;27058
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2;-2590.8; 04-MAY-2007 09:26:27; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;27058
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2;-2031.8; 04-MAY-2007 09:35:46; Bright; 24.5; 68; 18Alp Cas ; 2.22; 4500;occ; 49; 0;27058
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 7; 3010.8; 05-MAY-2007 12:08:48; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;27074
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 9; 3926.5; 05-MAY-2007 12:24:03; Bright; 33.0; 110; 37Del Cas ; 2.68; 8900;occ; 66; 0;27074
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22; 3021.8; 08-MAY-2007 05:32:20; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;27113
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15; 2222.1; 08-MAY-2007 22:05:00; Bright; 35.5; 111; 8Eta Boo ; 2.68; 6000;occ; 71; 0;27123
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```


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 5; 2222.5; 08-MAY-2007 12:01:24; Bright; 35.5; 111; 8Eta Boo ; 2.68; 6000;occ; 71; 0;27117
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 8; 59.7; 10-MAY-2007 07:00:56; Dark ; 38.0; 148; Alp Tuc ; 2.88; 4100;occ; 76; 0;27143
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10; 752.3; 10-MAY-2007 07:12:28; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;27143
11; 863.3; 10-MAY-2007 07:14:19; Dark ; 39.5; 4; Alp1Cen ;-0.01; 5800;occ; 79; 0;27143
12; 1074.4; 10-MAY-2007 07:17:51; Dark ; 40.5; 78; Alp Lup ; 2.30; 28000;occ; 81; 0;27143
13; 1165.5; 10-MAY-2007 07:19:22; Dark ; 40.5; 81; Eta Cen ; 2.36; 28000;occ; 81; 0;27143

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16; 1730.2; 10-MAY-2007 07:28:46; Bright; 18.0; 15; 67Alp Vir ; 0.98; 28000;occ; 36; 0;27143
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4; 2566.7; 10-MAY-2007 07:42:43; Bright; 34.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 68; 0;27143
5; 2750.2; 10-MAY-2007 07:45:46; Bright; 35.5; 39; 85Eta UMa ; 1.85; 24000;occ; 71; 0;27143
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9; 3934.8; 10-MAY-2007 08:05:31; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;27143
10; 4009.7; 10-MAY-2007 08:06:46; Bright; 33.0; 68; 18Alp Cas ; 2.22; 4500;occ; 66; 0;27143
11; 4740.6; 10-MAY-2007 08:18:57; Dark ; 39.0; 140; 88Gam Peg ; 2.83; 26000;occ; 78; 0;27143
12; 5264.5; 10-MAY-2007 08:27:41; Dark ; 43.5; 52; 16Bet Cet ; 2.04; 4500;occ; 87; 0;27143
13; 5674.0; 10-MAY-2007 08:34:30; Dark ; 40.5; 84; Alp Phe ; 2.40; 4500;occ; 81; 0;27143
14; 5763.1; 10-MAY-2007 08:35:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27143
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16; 6096.1; 10-MAY-2007 08:41:32; Dark ; 39.0; 148; Alp Tuc ; 2.88; 4100;occ; 78; 0;27143
17; 6656.9; 10-MAY-2007 08:50:53; Dark ; 37.0; 43; Alp TrA ; 1.91; 4250;occ; 74; 0;27143
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21; 7201.7; 10-MAY-2007 08:59:58; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;27143
22; 7320.4; 10-MAY-2007 09:01:56; Dark ; 40.5; 54; 5The Cen ; 2.06; 4500;occ; 81; 0;27143
23; 7570.6; 10-MAY-2007 09:06:07; Bright; 36.0; 169; 46Gam Hya ; 2.99; 4700;occ; 72; 0;27143
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3; 2221.5; 10-MAY-2007 09:17:33; Bright; 35.5; 111; 8Eta Boo ; 2.68; 6000;occ; 71; 0;27144
4; 2566.8; 10-MAY-2007 09:23:19; Bright; 34.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 68; 0;27144
5; 2750.1; 10-MAY-2007 09:26:22; Bright; 36.5; 39; 85Eta UMa ; 1.85; 24000;occ; 73; 0;27144
6; 2840.5; 10-MAY-2007 09:27:53; Bright; 35.5; 55; 79Zet UMa ; 2.06; 10200;occ; 71; 0;27144
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8; 3445.6; 10-MAY-2007 09:37:58; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27144
9; 3934.9; 10-MAY-2007 09:46:07; Bright; 33.0; 76; 27Gam Cas ; 2.30; 30000;occ; 66; 0;27144
10; 4009.6; 10-MAY-2007 09:47:22; Bright; 33.0; 68; 18Alp Cas ; 2.22; 4500;occ; 66; 0;27144
11; 4740.9; 10-MAY-2007 09:59:33; Dark ; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;27144
12; 5264.7; 10-MAY-2007 10:08:17; Dark ; 42.0; 52; 16Bet Cet ; 2.04; 4500;occ; 84; 0;27144
13; 5674.2; 10-MAY-2007 10:15:06; Dark ; 36.5; 84; Alp Phe ; 2.40; 4500;occ; 73; 0;27144
14; 5763.4; 10-MAY-2007 10:16:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27144
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16; 6096.5; 10-MAY-2007 10:22:08; Dark ; 39.0; 148; Alp Tuc ; 2.88; 4100;occ; 78; 0;27144
17; 6657.2; 10-MAY-2007 10:31:29; Dark ; 48.0; 43; Alp TrA ; 1.91; 4250;occ; 96; 0;27144
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19; 6899.6; 10-MAY-2007 10:35:32; Dark ; 38.5; 4; Alp1Cen ; -0.01; 5800;occ; 77; 0;27144
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21; 7201.9; 10-MAY-2007 10:40:34; Dark ; 40.0; 81; Eta Cen ; 2.36; 28000;occ; 80; 0;27144
22; 7320.5; 10-MAY-2007 10:42:33; Dark ; 42.5; 54; 5The Cen ; 2.06; 4500;occ; 85; 0;27144
23; 7570.6; 10-MAY-2007 10:46:43; Bright; 37.5; 169; 46Gam Hya ; 2.99; 4700;occ; 75; 0;27144
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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
7; 3031.6; 10-MAY-2007 11:11:40; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;27145
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9; 3934.7; 10-MAY-2007 11:26:43; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;27145
10; 4009.7; 10-MAY-2007 11:27:58; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;27145
11; 4741.0; 10-MAY-2007 11:40:09; Dark ; 40.0; 140; 88Gam Peg ; 2.83; 26000;occ; 80; 0;27145
12; 5264.9; 10-MAY-2007 11:48:53; Dark ; 42.0; 52; 16Bet Cet ; 2.04; 4500;occ; 84; 0;27145
13; 5674.5; 10-MAY-2007 11:55:42; Dark ; 39.0; 84; Alp Phe ; 2.40; 4500;occ; 78; 0;27145
14; 5763.7; 10-MAY-2007 11:57:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27145

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15; 5889.9; 10-MAY-2007 11:59:18; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;27145
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17; 6657.6; 10-MAY-2007 12:12:05; Dark ; 41.0; 43; Alp TrA ; 1.91; 4250;occ; 82; 0;27145
18; 6789.1; 10-MAY-2007 12:14:17; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;27145
19; 6899.8; 10-MAY-2007 12:16:08; Dark ; 42.0; 4; Alp1Cen ;-0.01; 5800;occ; 84; 0;27145
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21; 7202.1; 10-MAY-2007 12:21:10; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;27145
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 3; 2221.5; 10-MAY-2007 12:38:45; Bright; 34.5; 111; 8Eta Boo ; 2.68; 6000;occ; 69; 0;27146
 4; 2567.1; 10-MAY-2007 12:44:31; Bright; 35.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 70; 0;27146
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11; 4741.3; 10-MAY-2007 13:20:45; Dark ; 41.5; 140; 88Gam Peg ; 2.83; 26000;occ; 83; 0;27146
12; 5265.2; 10-MAY-2007 13:29:29; Dark ; 41.0; 52; 16Bet Cet ; 2.04; 4500;occ; 82; 0;27146
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19; 6900.1; 10-MAY-2007 13:56:44; Dark ; 48.5; 4; Alp1Cen ;-0.01; 5800;occ; 97; 0;27146
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 4; 2221.4; 10-MAY-2007 14:19:21; Bright; 35.5; 111; 8Eta Boo ; 2.68; 6000;occ; 71; 0;27147
 5; 2567.5; 10-MAY-2007 14:25:07; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;27147
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18; 6658.3; 10-MAY-2007 15:33:18; Dark ; 40.0; 43; Alp TrA ; 1.91; 4250;occ; 80; 0;27147
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22; 7202.7; 10-MAY-2007 15:42:22; Dark ; 38.5; 81; Eta Cen ; 2.36; 28000;occ; 77; 0;27147
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 6; 2567.3; 10-MAY-2007 16:05:43; Bright; 35.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 71; 0;27148
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16; 5765.0; 10-MAY-2007 16:59:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27148
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14; 1287.0; 11-MAY-2007 06:49:46; Dark ; 45.0; 54; 5The Cen ; 2.06; 4500;occ; 90; 0;27157
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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
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12; 5267.7; 11-MAY-2007 07:56:07; Dark ; 44.5; 52; 16Bet Cet ; 2.04; 4500;occ; 89; 0;27157
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 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

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 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
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 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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 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
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 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
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 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
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 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

```

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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
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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
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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
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6; 2569.3; 11-MAY-2007 17:14:44; Bright; 34.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 68; 0;27163
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12; 4010.6; 11-MAY-2007 17:38:45; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;27163
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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
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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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 14; 2115.4; 11-MAY-2007 23:49:34; Bright; 34.5; 138; 47Eps Vir ; 2.83; 4700;occ; 69; 0;27167
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 16; 2569.8; 11-MAY-2007 23:57:08; Bright; 33.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 66; 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
 23; 4746.8; 12-MAY-2007 00:33:25; Dark ; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;27167
 24; 5270.1; 12-MAY-2007 00:42:08; Dark ; 42.5; 52; 16Bet Cet ; 2.04; 4500;occ; 85; 0;27167

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20070511_183030_000058752058_00056_27164_7770.N1

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 3; 1288.4; 11-MAY-2007 18:33:59; Dark ; 42.5; 54; 5The Cen ; 2.06; 4500;occ; 85; 0;27164
 4; 1538.1; 11-MAY-2007 18:38:09; Bright; 37.0; 169; 46Gam Hya ; 2.99; 4700;occ; 74; 0;27164
 5; 1733.5; 11-MAY-2007 18:41:24; Bright; 37.5; 15; 67Alp Vir ; 0.98; 28000;occ; 75; 0;27164
 6; 2114.8; 11-MAY-2007 18:47:45; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;27164
 7; 2221.3; 11-MAY-2007 18:49:32; Bright; 53.0; 111; 8Eta Boo ; 2.68; 6000;occ; 106; 0;27164
 8; 2569.5; 11-MAY-2007 18:55:20; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;27164
 9; 2748.4; 11-MAY-2007 18:58:19; Bright; 37.0; 39; 85Eta UMa ; 1.85; 24000;occ; 74; 0;27164
 10; 2840.2; 11-MAY-2007 18:59:51; Bright; 35.5; 55; 79Zet UMa ; 2.06; 10200;occ; 71; 0;27164
 11; 3037.8; 11-MAY-2007 19:03:08; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;27164
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 13; 3936.0; 11-MAY-2007 19:18:07; Bright; 33.0; 76; 27Gam Cas ; 2.30; 30000;occ; 66; 0;27164
 14; 4010.3; 11-MAY-2007 19:19:21; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;27164
 15; 4746.1; 11-MAY-2007 19:31:37; Dark ; 40.0; 140; 88Gam Peg ; 2.83; 26000;occ; 80; 0;27164
 16; 5269.4; 11-MAY-2007 19:40:20; Dark ; 45.0; 52; 16Bet Cet ; 2.04; 4500;occ; 90; 0;27164
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 18; 5771.0; 11-MAY-2007 19:48:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27164
 19; 5900.9; 11-MAY-2007 19:50:51; Dark ; 45.5; 63; Bet Gru ; 2.15; 2800;occ; 91; 0;27164
 20; 6105.3; 11-MAY-2007 19:54:16; Dark ; 40.0; 148; Alp Tuc ; 2.88; 4100;occ; 80; 0;27164
 21; 6663.7; 11-MAY-2007 20:03:34; Dark ; 42.0; 43; Alp TrA ; 1.91; 4250;occ; 84; 0;27164
 22; 6795.2; 11-MAY-2007 20:05:46; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;27164
 23; 6903.9; 11-MAY-2007 20:07:35; Dark ; 51.0; 4; Alp1Cen ; -0.01; 5800;occ; 102; 0;27164

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20070512_004214_000055462058_00059_27167_3682.N1

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 2; -356.5; 12-MAY-2007 00:48:58; Dark ; 39.0; 84; Alp Phe ; 2.40; 4500;occ; 78; 0;27167
 3; -263.9; 12-MAY-2007 00:50:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27167
 4; -133.4; 12-MAY-2007 00:52:41; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;27167
 5; 70.7; 12-MAY-2007 00:56:05; Dark ; 39.0; 148; Alp Tuc ; 2.88; 4100;occ; 78; 0;27168
 6; 628.6; 12-MAY-2007 01:05:23; Dark ; 47.5; 43; Alp TrA ; 1.91; 4250;occ; 95; 0;27168
 7; 760.1; 12-MAY-2007 01:07:34; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;27168
 8; 868.4; 12-MAY-2007 01:09:23; Dark ; 42.0; 4; Alp1Cen ; -0.01; 5800;occ; 84; 0;27168
 9; 1080.6; 12-MAY-2007 01:12:55; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;27168
 10; 1171.3; 12-MAY-2007 01:14:26; Dark ; 40.5; 81; Eta Cen ; 2.36; 28000;occ; 81; 0;27168
 11; 1289.2; 12-MAY-2007 01:16:23; Dark ; 40.0; 54; 5The Cen ; 2.06; 4500;occ; 80; 0;27168
 12; 1538.6; 12-MAY-2007 01:20:33; Bright; 37.5; 169; 46Gam Hya ; 2.99; 4700;occ; 75; 0;27168
 13; 1734.2; 12-MAY-2007 01:23:48; Bright; 36.5; 15; 67Alp Vir ; 0.98; 28000;occ; 73; 0;27168
 14; 2115.7; 12-MAY-2007 01:30:10; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;27168
 15; 2221.2; 12-MAY-2007 01:31:55; Bright; 35.0; 111; 8Eta Boo ; 2.68; 6000;occ; 70; 0;27168
 16; 2570.0; 12-MAY-2007 01:37:44; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;27168
 17; 2748.0; 12-MAY-2007 01:40:42; Bright; 35.5; 39; 85Eta UMa ; 1.85; 24000;occ; 71; 0;27168
 18; 2840.1; 12-MAY-2007 01:42:14; Bright; 33.0; 55; 79Zet UMa ; 2.06; 10200;occ; 66; 0;27168
 19; 3039.1; 12-MAY-2007 01:45:33; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;27168
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 21; 3935.9; 12-MAY-2007 02:00:30; Bright; 52.0; 76; 27Gam Cas ; 2.30; 30000;occ; 104; 0;27168
 22; 4010.8; 12-MAY-2007 02:01:45; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;27168
 23; 4746.9; 12-MAY-2007 02:14:01; Dark ; 40.0; 140; 88Gam Peg ; 2.83; 26000;occ; 80; 0;27168

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 2; -356.3; 12-MAY-2007 02:29:34; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;27168


```

3; -263.5; 12-MAY-2007 02:31:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27168
4; -132.8; 12-MAY-2007 02:33:17; Dark ; 47.0; 63; Bet Gru ; 2.15; 2800;occ; 94; 0;27168
5; 71.2; 12-MAY-2007 02:36:41; Dark ; 39.0; 148; Alp Tuc ; 2.88; 4100;occ; 78; 0;27169
6; 629.0; 12-MAY-2007 02:45:59; Dark ; 41.5; 43; Alp TrA ; 1.91; 4250;occ; 83; 0;27169
7; 760.5; 12-MAY-2007 02:48:11; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;27169
8; 868.7; 12-MAY-2007 02:49:59; Dark ; 45.5; 4; Alp1Cen ;-0.01; 5800;occ; 91; 0;27169
9; 1080.9; 12-MAY-2007 02:53:31; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;27169
10; 1171.7; 12-MAY-2007 02:55:02; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;27169
11; 1289.3; 12-MAY-2007 02:56:59; Dark ; 44.0; 54; 5The Cen ; 2.06; 4500;occ; 88; 0;27169
12; 1538.8; 12-MAY-2007 03:01:09; Bright; 37.0; 169; 46Gam Hya ; 2.99; 4700;occ; 74; 0;27169
13; 1734.4; 12-MAY-2007 03:04:25; Bright; 36.5; 15; 67Alp Vir ; 0.98; 28000;occ; 73; 0;27169
14; 2115.9; 12-MAY-2007 03:10:46; Bright; 34.5; 138; 47Eps Vir ; 2.83; 4700;occ; 69; 0;27169
15; 2221.1; 12-MAY-2007 03:12:31; Bright; 35.0; 111; 8Eta Boo ; 2.68; 6000;occ; 70; 0;27169
16; 2570.2; 12-MAY-2007 03:18:20; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;27169
17; 2748.0; 12-MAY-2007 03:21:18; Bright; 35.5; 39; 85Eta UMA ; 1.85; 24000;occ; 71; 0;27169
18; 2840.2; 12-MAY-2007 03:22:50; Bright; 34.0; 55; 79Zet UMA ; 2.06; 10200;occ; 68; 0;27169
19; 3039.4; 12-MAY-2007 03:26:10; Bright; 34.5; 36; 50Alp UMA ; 1.80; 6300;occ; 69; 0;27169
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3; -1288.8; 12-MAY-2007 03:54:37; Dark ; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;27169
4; -765.3; 12-MAY-2007 04:03:21; Dark ; 43.5; 52; 16Bet Cet ; 2.04; 4500;occ; 87; 0;27169
5; -356.0; 12-MAY-2007 04:10:10; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;27169
6; -263.1; 12-MAY-2007 04:11:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27169
7; -132.2; 12-MAY-2007 04:13:54; Dark ; 49.5; 63; Bet Gru ; 2.15; 2800;occ; 99; 0;27169
8; 71.6; 12-MAY-2007 04:17:18; Dark ; 38.5; 148; Alp Tuc ; 2.88; 4100;occ; 77; 0;27170
9; 629.3; 12-MAY-2007 04:26:35; Dark ; 40.5; 43; Alp TrA ; 1.91; 4250;occ; 81; 0;27170
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11; 868.9; 12-MAY-2007 04:30:35; Dark ; 50.5; 4; Alp1Cen ;-0.01; 5800;occ; 101; 0;27170
12; 1081.1; 12-MAY-2007 04:34:07; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;27170
13; 1171.9; 12-MAY-2007 04:35:38; Dark ; 38.5; 81; Eta Cen ; 2.36; 28000;occ; 77; 0;27170
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19; 2570.4; 12-MAY-2007 04:58:56; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;27170
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8; 72.0; 12-MAY-2007 05:57:54; Dark ; 39.0; 148; Alp Tuc ; 2.88; 4100;occ; 78; 0;27171
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10; 761.0; 12-MAY-2007 06:09:23; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;27171
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12; 1081.2; 12-MAY-2007 06:14:43; Dark ; 40.0; 78; Alp Lup ; 2.30; 28000;occ; 80; 0;27171
13; 1172.2; 12-MAY-2007 06:16:14; Dark ; 40.0; 81; Eta Cen ; 2.36; 28000;occ; 80; 0;27171
14; 1289.8; 12-MAY-2007 06:18:12; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;27171
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17; 2116.3; 12-MAY-2007 06:31:58; Bright; 34.5; 138; 47Eps Vir ; 2.83; 4700;occ; 69; 0;27171
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19; 2570.4; 12-MAY-2007 06:39:32; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;27171
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22; 3040.1; 12-MAY-2007 06:47:22; Bright; 36.5; 36; 50Alp UMA ; 1.80; 6300;occ; 73; 0;27171
23; 3445.8; 12-MAY-2007 06:54:08; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27171
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2; 732.1; 12-MAY-2007 21:14:18; Dark ; 42.0; 141; Bet Ara ; 2.84; 4600;occ; 84; 0;27180
3; 877.9; 12-MAY-2007 21:16:43; Dark ; 52.5; 40; The Sco ; 1.86; 7100;occ; 105; 0;27180
4; 989.5; 12-MAY-2007 21:18:35; Dark ; 55.5; 25; 35Lam Sco ; 1.62; 28000;occ; 111; 0;27180
5; 1140.1; 12-MAY-2007 21:21:06; Dark ; 52.5; 75; 26Eps Sco ; 2.29; 4250;occ; 105; 0;27180
6; 1333.9; 12-MAY-2007 21:24:19; Dark ; 63.5; 16; 21Alp Sco ; 1.02; 3000;occ; 127; 0;27180
7; 1443.2; 12-MAY-2007 21:26:09; Dark ; 52.5; 80; 7Del Sco ; 2.32; 30000;occ; 105; 0;27180
8; 1609.5; 12-MAY-2007 21:28:55; Bright; 38.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 76; 0;27180
9; 1725.8; 12-MAY-2007 21:30:51; Bright; 40.5; 104; 27Bet Lib ; 2.61; 13100;occ; 81; 0;27180
10; 2063.5; 12-MAY-2007 21:36:29; Bright; 46.5; 102; 24Alp Ser ; 2.60; 4250;occ; 93; 0;27180
11; 2393.8; 12-MAY-2007 21:41:59; Bright; 56.0; 83; ; 2.38; 11000;occ; 112; 0;27180
12; 2580.8; 12-MAY-2007 21:45:06; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;27180
13; 3117.2; 12-MAY-2007 21:54:03; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;27180
14; 3770.2; 12-MAY-2007 22:04:56; Bright; 52.0; 89; 5Alp Cep ; 2.45; 8000;occ; 104; 0;27180
15; 3964.2; 12-MAY-2007 22:08:10; Bright; 45.5; 74; 11Bet Cas ; 2.27; 6600;occ; 91; 0;27180
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17; 4837.3; 12-MAY-2007 22:22:43; Dark ; 49.0; 90; 54Alp Peg ; 2.49; 11000;occ; 98; 0;27180
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2; -250.3; 12-MAY-2007 22:38:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27180
3; -43.1; 12-MAY-2007 22:41:58; Dark ; 42.5; 31; Alp Gru ; 1.73; 15200;occ; 85; 0;27180
4; 292.2; 12-MAY-2007 22:47:34; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27181
5; 732.6; 12-MAY-2007 22:54:54; Dark ; 40.5; 141; Bet Ara ; 2.84; 4600;occ; 81; 0;27181
6; 878.5; 12-MAY-2007 22:57:20; Dark ; 51.0; 40; The Sco ; 1.86; 7100;occ; 102; 0;27181
7; 990.1; 12-MAY-2007 22:59:11; Dark ; 57.5; 25; 35Lam Sco ; 1.62; 28000;occ; 115; 0;27181
8; 1140.6; 12-MAY-2007 23:01:42; Dark ; 53.5; 75; 26Eps Sco ; 2.29; 4250;occ; 107; 0;27181
9; 1334.2; 12-MAY-2007 23:04:56; Dark ; 61.5; 16; 21Alp Sco ; 1.02; 3000;occ; 123; 0;27181
10; 1443.4; 12-MAY-2007 23:06:45; Dark ; 54.0; 80; 7Del Sco ; 2.32; 30000;occ; 108; 0;27181
11; 1609.6; 12-MAY-2007 23:09:31; Bright; 39.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 78; 0;27181
12; 1725.8; 12-MAY-2007 23:11:27; Bright; 41.0; 104; 27Bet Lib ; 2.61; 13100;occ; 82; 0;27181
13; 2063.2; 12-MAY-2007 23:17:05; Bright; 45.5; 102; 24Alp Ser ; 2.60; 4250;occ; 91; 0;27181
14; 2393.5; 12-MAY-2007 23:22:35; Bright; 39.0; 83; ; 2.38; 11000;occ; 78; 0;27181
15; 2580.7; 12-MAY-2007 23:25:42; Bright; 47.5; 180; 27Gam Boo ; 3.04; 8000;occ; 95; 0;27181
16; 3116.6; 12-MAY-2007 23:34:38; Bright; 60.0; 119; 14Eta Dra ; 2.73; 4700;occ; 120; 0;27181
17; 3769.8; 12-MAY-2007 23:45:31; Bright; 65.0; 89; 5Alp Cep ; 2.45; 8000;occ; 130; 0;27181
18; 3964.1; 12-MAY-2007 23:48:45; Bright; 54.0; 74; 11Bet Cas ; 2.27; 6600;occ; 108; 0;27181
19; 4568.9; 12-MAY-2007 23:58:50; Dark ; 56.5; 93; 53Bet Peg ; 2.52; 3100;occ; 113; 0;27181
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2; -2025.3; 12-MAY-2007 07:03:33; Bright; 33.5; 68; 18Alp Cas ; 2.22; 4500;occ; 67; 0;27171
3; -1288.5; 12-MAY-2007 07:15:50; Dark ; 42.5; 140; 88Gam Peg ; 2.83; 26000;occ; 85; 0;27171
4; -764.8; 12-MAY-2007 07:24:33; Dark ; 43.0; 52; 16Bet Cet ; 2.04; 4500;occ; 86; 0;27171
5; -470.2; 12-MAY-2007 07:29:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27171
6; -355.6; 12-MAY-2007 07:31:22; Dark ; 38.0; 84; Alp Phe ; 2.40; 4500;occ; 76; 0;27171
7; -131.1; 12-MAY-2007 07:35:07; Dark ; 46.5; 63; Bet Gru ; 2.15; 2800;occ; 93; 0;27171
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

```

15; 5905.4; 12-MAY-2007 09:15:43; Dark ; 46.5; 63; Bet Gru ; 2.15; 2800;occ; 93; 0;27172
 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
 20; 7117.9; 12-MAY-2007 11:16:32; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;27173
 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
 23; 7575.5; 12-MAY-2007 11:24:09; Bright; 35.0; 169; 46Gam Hya ; 2.99; 4700;occ; 70; 0;27173

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20070512_112725_000058762058_00066_27174_7776.N1

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 2; 2116.8; 12-MAY-2007 11:33:47; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;27174
 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

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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
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 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
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 9; 3936.2; 12-MAY-2007 13:44:42; Bright; 52.0; 76; 27Gam Cas ; 2.30; 30000;occ; 104; 0;27175


```

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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
15; 5907.2; 12-MAY-2007 14:17:33; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;27175
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
19; 6906.0; 12-MAY-2007 14:34:12; Dark ; 45.5; 4; Alp1Cen ; -0.01; 5800;occ; 91; 0;27175
20; 7118.4; 12-MAY-2007 14:37:44; Dark ; 36.5; 78; Alp Lup ; 2.30; 28000;occ; 73; 0;27175
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 3; 2117.4; 12-MAY-2007 14:54:59; Bright; 34.0; 138; 47Eps Vir ; 2.83; 4700;occ; 68; 0;27176
 4; 2221.2; 12-MAY-2007 14:56:43; Bright; 35.0; 111; 8Eta Boo ; 2.68; 6000;occ; 70; 0;27176
 5; 2571.2; 12-MAY-2007 15:02:33; Bright; 36.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 72; 0;27176
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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
 9; 3445.8; 12-MAY-2007 15:17:07; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27176
10; 3936.1; 12-MAY-2007 15:25:18; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;27176
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
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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
 6; 2117.5; 12-MAY-2007 16:35:35; Bright; 34.5; 138; 47Eps Vir ; 2.83; 4700;occ; 69; 0;27177
 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
 9; 2747.5; 12-MAY-2007 16:46:05; Bright; 37.0; 39; 85Eta UMa ; 1.85; 24000;occ; 74; 0;27177
10; 2840.2; 12-MAY-2007 16:47:38; Bright; 36.5; 55; 79Zet UMa ; 2.06; 10200;occ; 73; 0;27177
11; 3042.1; 12-MAY-2007 16:51:00; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;27177

```

```

12; 3445.7; 12-MAY-2007 16:57:43; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27177
13; 3936.4; 12-MAY-2007 17:05:54; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;27177
14; 4010.9; 12-MAY-2007 17:07:08; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;27177
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
19; 5908.5; 12-MAY-2007 17:38:46; Dark ; 56.0; 63; Bet Gru ; 2.15; 2800;occ; 112; 0;27177
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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 2; 1173.8; 12-MAY-2007 18:00:27; Dark ; 37.5; 81; Eta Cen ; 2.36; 28000;occ; 75; 0;27178
 3; 1291.1; 12-MAY-2007 18:02:25; Dark ; 42.0; 54; 5The Cen ; 2.06; 4500;occ; 84; 0;27178
 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
 6; 2117.7; 12-MAY-2007 18:16:11; Bright; 35.0; 138; 47Eps Vir ; 2.83; 4700;occ; 70; 0;27178
 7; 2221.2; 12-MAY-2007 18:17:55; Bright; 34.5; 111; 8Eta Boo ; 2.68; 6000;occ; 69; 0;27178
 8; 2571.4; 12-MAY-2007 18:23:45; Bright; 35.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 70; 0;27178
 9; 2747.4; 12-MAY-2007 18:26:41; Bright; 37.0; 39; 85Eta UMa ; 1.85; 24000;occ; 74; 0;27178
10; 2840.3; 12-MAY-2007 18:28:14; Bright; 36.0; 55; 79Zet UMa ; 2.06; 10200;occ; 72; 0;27178
11; 3042.4; 12-MAY-2007 18:31:36; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;27178
12; 3445.7; 12-MAY-2007 18:38:19; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;27178
13; 3936.2; 12-MAY-2007 18:46:30; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;27178
14; 4010.9; 12-MAY-2007 18:47:44; Bright; 53.0; 68; 18Alp Cas ; 2.22; 4500;occ; 106; 0;27178
15; 4749.7; 12-MAY-2007 19:00:03; Dark ; 26.0; 140; 88Gam Peg ; 2.83; 26000;occ; 52; 0;27178
16; 5272.9; 12-MAY-2007 19:08:47; Dark ; 43.5; 52; 16Bet Cet ; 2.04; 4500;occ; 87; 0;27178
17; 5566.9; 12-MAY-2007 19:13:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27178
18; 5682.1; 12-MAY-2007 19:15:36; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;27178
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 2; -248.7; 13-MAY-2007 01:59:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27182
 3; -41.7; 13-MAY-2007 02:03:11; Dark ; 42.0; 31; Alp Gru ; 1.73; 15200;occ; 84; 0;27182
 4; 293.5; 13-MAY-2007 02:08:47; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27183
 5; 733.7; 13-MAY-2007 02:16:07; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;27183
 6; 880.0; 13-MAY-2007 02:18:33; Dark ; 50.5; 40; The Sco ; 1.86; 7100;occ; 101; 0;27183
 7; 991.5; 13-MAY-2007 02:20:25; Dark ; 56.5; 25; 35Lam Sco ; 1.62; 28000;occ; 113; 0;27183
 8; 1141.7; 13-MAY-2007 02:22:55; Dark ; 53.5; 75; 26Eps Sco ; 2.29; 4250;occ; 107; 0;27183
 9; 1335.0; 13-MAY-2007 02:26:08; Dark ; 64.5; 16; 21Alp Sco ; 1.02; 3000;occ; 129; 0;27183
10; 1443.9; 13-MAY-2007 02:27:57; Dark ; 55.0; 80; 7Del Sco ; 2.32; 30000;occ; 110; 0;27183
11; 1610.0; 13-MAY-2007 02:30:43; Bright; 38.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 76; 0;27183
12; 1725.9; 13-MAY-2007 02:32:39; Bright; 41.5; 104; 27Bet Lib ; 2.61; 13100;occ; 83; 0;27183
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
15; 2580.1; 13-MAY-2007 02:46:53; Bright; 35.5; 180; 27Gam Boo ; 3.04; 8000;occ; 71; 0;27183
16; 3115.6; 13-MAY-2007 02:55:49; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;27183
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 3; -1466.5; 13-MAY-2007 03:20:03; Dark ; 60.0; 93; 53Bet Peg ; 2.52; 3100;occ; 120; 0;27183
 4; -1197.1; 13-MAY-2007 03:24:32; Dark ; 51.5; 90; 54Alp Peg ; 2.49; 11000;occ; 103; 0;27183
 5; -391.9; 13-MAY-2007 03:37:57; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;27183
 6; -247.8; 13-MAY-2007 03:40:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27183
 7; -40.9; 13-MAY-2007 03:43:48; Dark ; 42.5; 31; Alp Gru ; 1.73; 15200;occ; 85; 0;27183
 8; 294.4; 13-MAY-2007 03:49:23; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;27184
 9; 734.4; 13-MAY-2007 03:56:43; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;27184
10; 880.8; 13-MAY-2007 03:59:10; Dark ; 52.0; 40; The Sco ; 1.86; 7100;occ; 104; 0;27184
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
15; 1610.3; 13-MAY-2007 04:11:19; Bright; 38.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 76; 0;27184
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

```

```

19; 2580.1; 13-MAY-2007 04:27:29; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;27184
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2; -2071.4; 13-MAY-2007 04:50:34; Bright; 34.5; 74; 11Bet Cas ; 2.27; 6600;occ; 69; 0;27184
3; -1466.1; 13-MAY-2007 05:00:39; Dark ; 58.5; 93; 53Bet Peg ; 2.52; 3100;occ; 117; 0;27184
4; -1196.6; 13-MAY-2007 05:05:08; Dark ; 50.0; 90; 54Alp Peg ; 2.49; 11000;occ; 100; 0;27184
5; -391.3; 13-MAY-2007 05:18:34; Dark ; 50.0; 18; 24Alp PsA ; 1.17; 9700;occ; 100; 0;27184
6; -247.0; 13-MAY-2007 05:20:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27184
7; -40.1; 13-MAY-2007 05:24:25; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;27184
8; 295.1; 13-MAY-2007 05:30:00; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;27185
9; 734.9; 13-MAY-2007 05:37:20; Dark ; 45.0; 141; Bet Ara ; 2.84; 4600;occ; 90; 0;27185
10; 881.4; 13-MAY-2007 05:39:46; Dark ; 52.5; 40; The Sco ; 1.86; 7100;occ; 105; 0;27185
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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2; 887.6; 13-MAY-2007 20:45:16; Dark ; 54.0; 40; The Sco ; 1.86; 7100;occ; 108; 0;27194
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
7; 1726.2; 13-MAY-2007 20:59:15; Bright; 40.5; 104; 27Bet Lib ; 2.61; 13100;occ; 81; 0;27194
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
10; 2577.7; 13-MAY-2007 21:13:26; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;27194
11; 3110.1; 13-MAY-2007 21:22:19; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;27194
12; 3764.4; 13-MAY-2007 21:33:13; Bright; 55.5; 89; 5Alp Cep ; 2.45; 8000;occ; 111; 0;27194
13; 3963.8; 13-MAY-2007 21:36:32; Bright; 35.0; 74; 11Bet Cas ; 2.27; 6600;occ; 70; 0;27194
14; 4571.8; 13-MAY-2007 21:46:40; Dark ; 58.5; 93; 53Bet Peg ; 2.52; 3100;occ; 117; 0;27194
15; 4753.8; 13-MAY-2007 21:49:42; Dark ; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;27194
16; 4843.8; 13-MAY-2007 21:51:12; Dark ; 52.0; 90; 54Alp Peg ; 2.49; 11000;occ; 104; 0;27194
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2; -238.7; 13-MAY-2007 22:07:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27194
3; -33.0; 13-MAY-2007 22:10:31; Dark ; 42.0; 31; Alp Gru ; 1.73; 15200;occ; 84; 0;27194
4; 301.9; 13-MAY-2007 22:16:06; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;27195
5; 740.1; 13-MAY-2007 22:23:25; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;27195
6; 888.2; 13-MAY-2007 22:25:53; Dark ; 51.0; 40; The Sco ; 1.86; 7100;occ; 102; 0;27195
7; 1000.0; 13-MAY-2007 22:27:44; Dark ; 56.0; 25; 35Lam Sco ; 1.62; 28000;occ; 112; 0;27195
8; 1147.5; 13-MAY-2007 22:30:12; Dark ; 51.5; 75; 26Eps Sco ; 2.29; 4250;occ; 103; 0;27195
9; 1338.9; 13-MAY-2007 22:33:23; Dark ; 67.0; 16; 21Alp Sco ; 1.02; 3000;occ; 134; 0;27195
10; 1446.6; 13-MAY-2007 22:35:11; Dark ; 54.5; 80; 7Del Sco ; 2.32; 30000;occ; 109; 0;27195
11; 1726.2; 13-MAY-2007 22:39:51; Bright; 41.0; 104; 27Bet Lib ; 2.61; 13100;occ; 82; 0;27195
12; 2058.4; 13-MAY-2007 22:45:23; Bright; 45.0; 102; 24Alp Ser ; 2.60; 4250;occ; 90; 0;27195
13; 2390.1; 13-MAY-2007 22:50:54; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;27195
14; 2577.7; 13-MAY-2007 22:54:02; Bright; 55.0; 180; 27Gam Boo ; 3.04; 8000;occ; 110; 0;27195
15; 3109.6; 13-MAY-2007 23:02:54; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;27195
16; 3763.9; 13-MAY-2007 23:13:48; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;27195
17; 3963.7; 13-MAY-2007 23:17:08; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;27195
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19; 4754.3; 13-MAY-2007 23:30:19; Dark ; 41.5; 140; 88Gam Peg ; 2.83; 26000;occ; 83; 0;27195
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4; 302.7; 13-MAY-2007 23:56:43; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27196
5; 740.6; 14-MAY-2007 00:04:01; Dark ; 50.5; 141; Bet Ara ; 2.84; 4600;occ; 101; 0;27196
6; 889.0; 14-MAY-2007 00:06:29; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;27196

```



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7; 1000.7; 14-MAY-2007 00:08:21; Dark ; 57.5; 25; 35Lam Sco ; 1.62; 28000;occ; 115; 0;27196
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11; 1726.2; 14-MAY-2007 00:20:26; Bright; 38.5; 104; 27Bet Lib ; 2.61; 13100;occ; 77; 0;27196
12; 2057.9; 14-MAY-2007 00:25:58; Bright; 45.0; 102; 24Alp Ser ; 2.60; 4250;occ; 90; 0;27196
13; 2389.9; 14-MAY-2007 00:31:30; Bright; 40.5; 83; ; 2.38; 11000;occ; 81; 0;27196
14; 2577.4; 14-MAY-2007 00:34:38; Bright; 37.0; 180; 27Gam Boo ; 3.04; 8000;occ; 74; 0;27196
15; 3109.2; 14-MAY-2007 00:43:29; Bright; 47.5; 119; 14Eta Dra ; 2.73; 4700;occ; 95; 0;27196
16; 3763.5; 14-MAY-2007 00:54:24; Bright; 49.5; 89; 5Alp Cep ; 2.45; 8000;occ; 99; 0;27196
17; 3963.8; 14-MAY-2007 00:57:44; Bright; 54.0; 74; 11Bet Cas ; 2.27; 6600;occ; 108; 0;27196
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19; 4754.6; 14-MAY-2007 01:10:55; Dark ; 40.0; 140; 88Gam Peg ; 2.83; 26000;occ; 80; 0;27196
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2; -2071.5; 13-MAY-2007 06:31:10; Bright; 54.0; 74; 11Bet Cas ; 2.27; 6600;occ; 108; 0;27185
3; -1466.0; 13-MAY-2007 06:41:15; Dark ; 65.5; 93; 53Bet Peg ; 2.52; 3100;occ; 131; 0;27185
4; -1196.2; 13-MAY-2007 06:45:45; Dark ; 52.0; 90; 54Alp Peg ; 2.49; 11000;occ; 104; 0;27185
5; -390.5; 13-MAY-2007 06:59:11; Dark ; 42.0; 18; 24Alp PsA ; 1.17; 9700;occ; 84; 0;27185
6; -246.2; 13-MAY-2007 07:01:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27185
7; -39.5; 13-MAY-2007 07:05:02; Dark ; 42.0; 31; Alp Gru ; 1.73; 15200;occ; 84; 0;27185
8; 295.8; 13-MAY-2007 07:10:37; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;27186
9; 735.4; 13-MAY-2007 07:17:56; Dark ; 43.0; 141; Bet Ara ; 2.84; 4600;occ; 86; 0;27186
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11; 993.9; 13-MAY-2007 07:22:15; Dark ; 56.5; 25; 35Lam Sco ; 1.62; 28000;occ; 113; 0;27186
12; 1143.1; 13-MAY-2007 07:24:44; Dark ; 53.5; 75; 26Eps Sco ; 2.29; 4250;occ; 107; 0;27186
13; 1336.0; 13-MAY-2007 07:27:57; Dark ; 68.0; 16; 21Alp Sco ; 1.02; 3000;occ; 136; 0;27186
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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
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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

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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
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10; 4841.2; 13-MAY-2007 11:47:34; Dark ; 52.5; 90; 54Alp Peg ; 2.49; 11000;occ; 105; 0;27188
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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
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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
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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
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4; 1611.1; 13-MAY-2007 15:55:32; Bright; 37.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 75; 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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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
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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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4; 303.3; 14-MAY-2007 01:37:19; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27197
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9; 304.2; 14-MAY-2007 03:17:56; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;27198
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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13; 1149.3; 14-MAY-2007 03:32:01; Dark ; 51.5; 75; 26Eps Sco ; 2.29; 4250;occ; 103; 0;27198
14; 1340.1; 14-MAY-2007 03:35:12; Dark ; 63.0; 16; 21Alp Sco ; 1.02; 3000;occ; 126; 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
17; 2057.4; 14-MAY-2007 03:47:09; Bright; 45.0; 102; 24Alp Ser ; 2.60; 4250;occ; 90; 0;27198
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19; 2577.1; 14-MAY-2007 03:55:49; Bright; 37.0; 180; 27Gam Boo ; 3.04; 8000;occ; 74; 0;27198
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12; 1002.9; 14-MAY-2007 05:10:11; Dark ; 51.5; 25; 35Lam Sco ; 1.62; 28000;occ; 103; 0;27199
13; 1149.7; 14-MAY-2007 05:12:38; Dark ; 53.0; 75; 26Eps Sco ; 2.29; 4250;occ; 106; 0;27199
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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
16; 1726.4; 14-MAY-2007 05:22:14; Bright; 40.5; 104; 27Bet Lib ; 2.61; 13100;occ; 81; 0;27199
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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7; 3963.5; 14-MAY-2007 12:41:55; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;27203
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13; 4762.0; 15-MAY-2007 20:46:36; Dark ; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;27222
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12; 2049.5; 15-MAY-2007 21:42:00; Bright; 44.0; 102; 24Alp Ser ; 2.60; 4250;occ; 88; 0;27223
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7; -196.8; 17-MAY-2007 06:36:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27242

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14; 5843.7; 17-MAY-2007 14:59:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27247
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 4; 1853.5; 17-MAY-2007 15:33:42; Bright; 46.0; 120; 1Del Oph ; 2.73; 3200;occ; 92; 0;27248
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14; 5695.0; 17-MAY-2007 16:37:44; Dark ; 50.5; 18; 24Alp PsA ; 1.17; 9700;occ; 101; 0;27248
15; 5844.6; 17-MAY-2007 16:40:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27248

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18; 6867.5; 17-MAY-2007 16:57:16; Dark ; 41.0; 147; Alp Ara ; 2.88; 26000;occ; 82; 0;27248
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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20; 6960.6; 17-MAY-2007 18:39:25; Dark ; 52.5; 40; The Sco ; 1.86; 7100;occ; 105; 0;27249
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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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 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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15; 1511.5; 18-MAY-2007 04:52:48; Bright; 45.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 91; 0;27256
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6; 1729.4; 18-MAY-2007 20:01:49; Bright; 38.5; 104; 27Bet Lib ; 2.61; 13100;occ; 77; 0;27265
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```

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8; 1180.3; 18-MAY-2007 21:33:16; Dark ; 52.0; 75; 26Eps Sco ; 2.29; 4250;occ; 104; 0;27266
9; 1361.2; 18-MAY-2007 21:36:17; Dark ; 55.5; 16; 21Alp Sco ; 1.02; 3000;occ; 111; 0;27266
10; 1513.1; 18-MAY-2007 21:38:49; Bright; 42.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 85; 0;27266
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12; 1850.0; 18-MAY-2007 21:44:26; Bright; 47.5; 120; 1Del Oph ; 2.73; 3200;occ; 95; 0;27266
13; 2038.3; 18-MAY-2007 21:47:34; Bright; 41.5; 102; 24Alp Ser ; 2.60; 4250;occ; 83; 0;27266
14; 2377.2; 18-MAY-2007 21:53:13; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;27266
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6; 841.4; 18-MAY-2007 23:08:13; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;27267
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10; 1361.5; 18-MAY-2007 23:16:53; Dark ; 58.0; 16; 21Alp Sco ; 1.02; 3000;occ; 116; 0;27267
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
13; 1849.9; 18-MAY-2007 23:25:01; Bright; 47.5; 120; 1Del Oph ; 2.73; 3200;occ; 95; 0;27267
14; 2038.2; 18-MAY-2007 23:28:10; Bright; 42.0; 102; 24Alp Ser ; 2.60; 4250;occ; 84; 0;27267
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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7; -183.1; 18-MAY-2007 07:45:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27257
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9; 346.3; 18-MAY-2007 07:54:34; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;27258
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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
16; 6966.1; 18-MAY-2007 09:44:54; Dark ; 49.5; 40; The Sco ; 1.86; 7100;occ; 99; 0;27258
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19; 7395.2; 18-MAY-2007 09:52:03; Dark ; 57.5; 16; 21Alp Sco ; 1.02; 3000;occ; 115; 0;27258
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16; 6875.4; 18-MAY-2007 16:25:47; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;27262
17; 6968.7; 18-MAY-2007 16:27:20; Dark ; 52.5; 40; The Sco ; 1.86; 7100;occ; 105; 0;27262
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6; 2039.2; 18-MAY-2007 16:45:47; Bright; 42.0; 102; 24Alp Ser ; 2.60; 4250;occ; 84; 0;27263
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8; 3077.6; 18-MAY-2007 17:03:05; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;27263
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14; 5858.5; 18-MAY-2007 17:49:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27263

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16; 6056.1; 18-MAY-2007 19:33:20; Dark ; 42.5; 31; Alp Gru ; 1.73; 15200;occ; 85; 0;27264
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18; 6876.4; 18-MAY-2007 19:47:00; Dark ; 44.0; 147; Alp Ara ; 2.88; 26000;occ; 88; 0;27264
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13; 1849.8; 19-MAY-2007 01:05:37; Bright; 47.0; 120; 1Del Oph ; 2.73; 3200;occ; 94; 0;27268
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13; 1849.7; 19-MAY-2007 02:46:13; Bright; 47.0; 120; 1Del Oph ; 2.73; 3200;occ; 94; 0;27269
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```

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6; -171.9; 19-MAY-2007 03:53:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27269
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8; 24.2; 19-MAY-2007 03:56:23; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;27270
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19; 2376.7; 19-MAY-2007 04:35:36; Bright; 53.5; 83; ; 2.38; 11000;occ; 107; 0;27270
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9; 355.5; 19-MAY-2007 05:42:31; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;27271
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4; -61.6; 19-MAY-2007 22:21:33; Dark ; 57.0; 63; Bet Gru ; 2.15; 2800;occ; 114; 0;27280
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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
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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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17; 6396.6; 19-MAY-2007 17:26:47; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;27277
18; 6883.6; 19-MAY-2007 17:34:54; Dark ; 41.5; 147; Alp Ara ; 2.88; 26000;occ; 83; 0;27277
19; 6977.9; 19-MAY-2007 17:36:29; Dark ; 53.0; 40; The Sco ; 1.86; 7100;occ; 106; 0;27277
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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
7; 784.4; 20-MAY-2007 01:56:51; Dark ; 44.0; 141; Bet Ara ; 2.84; 4600;occ; 88; 0;27283
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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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6; -309.7; 20-MAY-2007 04:59:49; Dark ; 51.5; 18; 24Alp PsA ; 1.17; 9700;occ; 103; 0;27284
7; -212.2; 20-MAY-2007 05:01:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27284
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11; 785.4; 20-MAY-2007 05:18:04; Dark ; 40.5; 141; Bet Ara ; 2.84; 4600;occ; 81; 0;27285
12; 946.0; 20-MAY-2007 05:20:44; Dark ; 51.0; 40; The Sco ; 1.86; 7100;occ; 102; 0;27285
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 12; 1624.9; 20-MAY-2007 22:18:03; Bright; 37.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 74; 0;27295
 13; 1731.1; 20-MAY-2007 22:19:49; Bright; 37.5; 104; 27Bet Lib ; 2.61; 13100;occ; 75; 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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 16; 2373.6; 21-MAY-2007 00:11:07; Bright; 36.0; 83; ; 2.38; 11000;occ; 72; 0;27296
 17; 2562.9; 21-MAY-2007 00:14:17; Bright; 53.0; 180; 27Gam Boo ; 3.04; 8000;occ; 106; 0;27296
 18; 3063.3; 21-MAY-2007 00:22:37; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;27296
 19; 3176.2; 21-MAY-2007 00:24:30; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27296
 20; 3446.4; 21-MAY-2007 00:29:00; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;27296
 21; 3937.9; 21-MAY-2007 00:37:12; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;27296
 22; 4010.8; 21-MAY-2007 00:38:24; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;27296
 23; 4525.9; 21-MAY-2007 00:47:00; Dark ; 45.0; 58; 21Alp And ; 2.07; 11000;occ; 90; 0;27296

```

24; 4785.2; 21-MAY-2007 00:51:19; Dark ; 43.0; 140; 88Gam Peg ; 2.83; 26000;occ; 86; 0;27296
25; 5311.2; 21-MAY-2007 01:00:05; Dark ; 44.5; 52; 16Bet Cet ; 2.04; 4500;occ; 89; 0;27296
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3; -1511.9; 20-MAY-2007 06:20:23; Dark ; 44.0; 58; 21Alp And ; 2.07; 11000;occ; 88; 0;27285
4; -1254.2; 20-MAY-2007 06:24:40; Dark ; 44.0; 140; 88Gam Peg ; 2.83; 26000;occ; 88; 0;27285
5; -729.0; 20-MAY-2007 06:33:25; Dark ; 45.0; 52; 16Bet Cet ; 2.04; 4500;occ; 90; 0;27285
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8; -58.0; 20-MAY-2007 06:44:36; Dark ; 49.5; 63; Bet Gru ; 2.15; 2800;occ; 99; 0;27285
9; 37.0; 20-MAY-2007 06:46:11; Dark ; 44.0; 31; Alp Gru ; 1.73; 15200;occ; 88; 0;27286
10; 366.2; 20-MAY-2007 06:51:41; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27286
11; 785.9; 20-MAY-2007 06:58:40; Dark ; 40.5; 141; Bet Ara ; 2.84; 4600;occ; 81; 0;27286
12; 946.6; 20-MAY-2007 07:01:21; Dark ; 47.5; 40; The Sco ; 1.86; 7100;occ; 95; 0;27286
13; 1189.0; 20-MAY-2007 07:05:23; Dark ; 53.5; 75; 26Eps Sco ; 2.29; 4250;occ; 107; 0;27286
14; 1367.0; 20-MAY-2007 07:08:21; Dark ; 62.0; 16; 21Alp Sco ; 1.02; 3000;occ; 124; 0;27286
15; 1516.6; 20-MAY-2007 07:10:51; Bright; 41.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 82; 0;27286
16; 1623.6; 20-MAY-2007 07:12:38; Bright; 36.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 73; 0;27286
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3; 2374.9; 20-MAY-2007 07:25:09; Bright; 39.0; 83; ; 2.38; 11000;occ; 78; 0;27286
4; 2563.9; 20-MAY-2007 07:28:18; Bright; 35.5; 180; 27Gam Boo ; 3.04; 8000;occ; 71; 0;27286
5; 2746.4; 20-MAY-2007 07:31:21; Bright; 36.0; 39; 85Eta UMa ; 1.85; 24000;occ; 72; 0;27286
6; 3067.5; 20-MAY-2007 07:36:42; Bright; 58.0; 119; 14Eta Dra ; 2.73; 4700;occ; 116; 0;27286
7; 3177.2; 20-MAY-2007 07:38:32; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27286
8; 3446.4; 20-MAY-2007 07:43:01; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;27286
9; 3938.2; 20-MAY-2007 07:51:13; Bright; 53.0; 76; 27Gam Cas ; 2.30; 30000;occ; 106; 0;27286
10; 4011.0; 20-MAY-2007 07:52:25; Bright; 40.5; 68; 18Alp Cas ; 2.22; 4500;occ; 81; 0;27286
11; 4524.3; 20-MAY-2007 08:00:59; Dark ; 46.0; 58; 21Alp And ; 2.07; 11000;occ; 92; 0;27286
12; 4781.7; 20-MAY-2007 08:05:16; Dark ; 44.5; 140; 88Gam Peg ; 2.83; 26000;occ; 89; 0;27286
13; 5307.4; 20-MAY-2007 08:14:02; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 0;27286
14; 5728.0; 20-MAY-2007 08:21:02; Dark ; 50.5; 18; 24Alp PsA ; 1.17; 9700;occ; 101; 0;27286
15; 5824.7; 20-MAY-2007 08:22:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27286
16; 5978.6; 20-MAY-2007 08:25:13; Dark ; 58.0; 63; Bet Gru ; 2.15; 2800;occ; 116; 0;27286
17; 6073.7; 20-MAY-2007 08:26:48; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;27286
18; 6402.8; 20-MAY-2007 08:32:17; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;27286
19; 6822.2; 20-MAY-2007 08:39:17; Dark ; 44.0; 141; Bet Ara ; 2.84; 4600;occ; 88; 0;27286
20; 6983.2; 20-MAY-2007 08:41:58; Dark ; 48.5; 40; The Sco ; 1.86; 7100;occ; 97; 0;27286
21; 7225.4; 20-MAY-2007 08:46:00; Dark ; 48.5; 75; 26Eps Sco ; 2.29; 4250;occ; 97; 0;27286
22; 7403.2; 20-MAY-2007 08:48:58; Dark ; 62.0; 16; 21Alp Sco ; 1.02; 3000;occ; 124; 0;27286
23; 7552.6; 20-MAY-2007 08:51:27; Bright; 40.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 81; 0;27286
24; 7659.8; 20-MAY-2007 08:53:14; Bright; 36.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 73; 0;27286
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4; 2746.5; 20-MAY-2007 09:11:57; Bright; 36.5; 39; 85Eta UMa ; 1.85; 24000;occ; 73; 0;27287
5; 3067.0; 20-MAY-2007 09:17:17; Bright; 59.0; 119; 14Eta Dra ; 2.73; 4700;occ; 118; 0;27287
6; 3177.1; 20-MAY-2007 09:19:07; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;27287
7; 3446.4; 20-MAY-2007 09:23:37; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27287
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9; 4011.3; 20-MAY-2007 09:33:02; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;27287
10; 4524.5; 20-MAY-2007 09:41:35; Dark ; 46.5; 58; 21Alp And ; 2.07; 11000;occ; 93; 0;27287
11; 4782.1; 20-MAY-2007 09:45:52; Dark ; 42.5; 140; 88Gam Peg ; 2.83; 26000;occ; 85; 0;27287
12; 5307.8; 20-MAY-2007 09:54:38; Dark ; 43.5; 52; 16Bet Cet ; 2.04; 4500;occ; 87; 0;27287
13; 5728.8; 20-MAY-2007 10:01:39; Dark ; 52.0; 18; 24Alp PsA ; 1.17; 9700;occ; 104; 0;27287
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15; 5979.3; 20-MAY-2007 10:05:50; Dark ; 47.5; 63; Bet Gru ; 2.15; 2800;occ; 95; 0;27287
16; 6074.5; 20-MAY-2007 10:07:25; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;27287
17; 6403.6; 20-MAY-2007 10:12:54; Dark ; 39.0; 45; Alp Pav ; 1.94; 26000;occ; 78; 0;27287
18; 6822.8; 20-MAY-2007 10:19:53; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;27287
19; 6983.7; 20-MAY-2007 10:22:34; Dark ; 52.0; 40; The Sco ; 1.86; 7100;occ; 104; 0;27287
20; 7225.8; 20-MAY-2007 10:26:36; Dark ; 51.5; 75; 26Eps Sco ; 2.29; 4250;occ; 103; 0;27287
21; 7403.4; 20-MAY-2007 10:29:34; Dark ; 56.0; 16; 21Alp Sco ; 1.02; 3000;occ; 112; 0;27287

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2; 2235.2; 20-MAY-2007 10:44:01; Bright; 35.5; 3; 16Alp Boo ; -0.05; 4250;occ; 71; 0;27288
3; 2374.5; 20-MAY-2007 10:46:21; Bright; 38.5; 83; ; 2.38; 11000;occ; 77; 0;27288
4; 2563.6; 20-MAY-2007 10:49:30; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;27288
5; 2746.5; 20-MAY-2007 10:52:33; Bright; 34.5; 39; 85Eta UMa ; 1.85; 24000;occ; 69; 0;27288
6; 3066.6; 20-MAY-2007 10:57:53; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;27288
7; 3177.0; 20-MAY-2007 10:59:43; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;27288
8; 3446.4; 20-MAY-2007 11:04:13; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;27288
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10; 4011.2; 20-MAY-2007 11:13:37; Bright; 45.5; 68; 18Alp Cas ; 2.22; 4500;occ; 91; 0;27288
11; 4524.5; 20-MAY-2007 11:22:11; Dark ; 43.5; 58; 21Alp And ; 2.07; 11000;occ; 87; 0;27288
12; 4782.5; 20-MAY-2007 11:26:29; Dark ; 45.0; 140; 88Gam Peg ; 2.83; 26000;occ; 90; 0;27288
13; 5308.2; 20-MAY-2007 11:35:14; Dark ; 42.5; 52; 16Bet Cet ; 2.04; 4500;occ; 85; 0;27288
14; 5729.7; 20-MAY-2007 11:42:16; Dark ; 53.5; 18; 24Alp PsA ; 1.17; 9700;occ; 107; 0;27288
15; 5825.6; 20-MAY-2007 11:43:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27288
16; 5980.0; 20-MAY-2007 11:46:26; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;27288
17; 6075.3; 20-MAY-2007 11:48:02; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;27288
18; 6404.2; 20-MAY-2007 11:53:30; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;27288
19; 6823.2; 20-MAY-2007 12:00:29; Dark ; 40.5; 141; Bet Ara ; 2.84; 4600;occ; 81; 0;27288
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4; 2374.3; 20-MAY-2007 12:26:56; Bright; 38.5; 83; ; 2.38; 11000;occ; 77; 0;27289
5; 2563.7; 20-MAY-2007 12:30:06; Bright; 34.5; 180; 27Gam Boo ; 3.04; 8000;occ; 69; 0;27289
6; 2758.2; 20-MAY-2007 12:33:20; Bright; 24.0; 39; 85Eta UMa ; 1.85; 24000;occ; 48; 0;27289
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10; 4011.2; 20-MAY-2007 12:54:13; Bright; 40.5; 68; 18Alp Cas ; 2.22; 4500;occ; 81; 0;27289
11; 4524.6; 20-MAY-2007 13:02:47; Dark ; 45.0; 58; 21Alp And ; 2.07; 11000;occ; 90; 0;27289
12; 4782.9; 20-MAY-2007 13:07:05; Dark ; 43.5; 140; 88Gam Peg ; 2.83; 26000;occ; 87; 0;27289
13; 5308.5; 20-MAY-2007 13:15:51; Dark ; 43.0; 52; 16Bet Cet ; 2.04; 4500;occ; 86; 0;27289
14; 5730.7; 20-MAY-2007 13:22:53; Dark ; 56.5; 18; 24Alp PsA ; 1.17; 9700;occ; 113; 0;27289
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16; 5980.7; 20-MAY-2007 13:27:03; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;27289
17; 6076.1; 20-MAY-2007 13:28:38; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;27289
18; 6404.9; 20-MAY-2007 13:34:07; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;27289
19; 6823.8; 20-MAY-2007 13:41:06; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;27289
20; 6984.9; 20-MAY-2007 13:43:47; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;27289
21; 7226.6; 20-MAY-2007 13:47:49; Dark ; 50.0; 75; 26Eps Sco ; 2.29; 4250;occ; 100; 0;27289
22; 7404.0; 20-MAY-2007 13:50:46; Dark ; 56.5; 16; 21Alp Sco ; 1.02; 3000;occ; 113; 0;27289
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2; 1731.0; 20-MAY-2007 13:56:49; Bright; 38.5; 104; 27Bet Lib ; 2.61; 13100;occ; 77; 0;27290
3; 2235.3; 20-MAY-2007 14:05:13; Bright; 35.5; 3; 16Alp Boo ; -0.05; 4250;occ; 71; 0;27290
4; 2374.4; 20-MAY-2007 14:07:32; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;27290
5; 2563.7; 20-MAY-2007 14:10:42; Bright; 34.0; 180; 27Gam Boo ; 3.04; 8000;occ; 68; 0;27290
6; 3065.8; 20-MAY-2007 14:19:04; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;27290
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9; 4011.3; 20-MAY-2007 14:34:49; Bright; 43.5; 68; 18Alp Cas ; 2.22; 4500;occ; 87; 0;27290
10; 4524.9; 20-MAY-2007 14:43:23; Dark ; 46.5; 58; 21Alp And ; 2.07; 11000;occ; 93; 0;27290
11; 4783.2; 20-MAY-2007 14:47:41; Dark ; 45.5; 140; 88Gam Peg ; 2.83; 26000;occ; 91; 0;27290
12; 5309.0; 20-MAY-2007 14:56:27; Dark ; 42.0; 52; 16Bet Cet ; 2.04; 4500;occ; 84; 0;27290
13; 5731.7; 20-MAY-2007 15:03:30; Dark ; 52.5; 18; 24Alp PsA ; 1.17; 9700;occ; 105; 0;27290
14; 5826.7; 20-MAY-2007 15:05:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27290
15; 5981.4; 20-MAY-2007 15:07:39; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;27290

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 4; 1731.1; 20-MAY-2007 15:37:25; Bright; 38.5; 104; 27Bet Lib ; 2.61; 13100;occ; 77; 0;27291
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12; 4011.0; 20-MAY-2007 16:15:25; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;27291
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16; 5732.6; 20-MAY-2007 16:44:07; Dark ; 49.5; 18; 24Alp PsA ; 1.17; 9700;occ; 99; 0;27291
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19; 5827.7; 20-MAY-2007 18:26:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27292
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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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13; 1731.4; 21-MAY-2007 01:41:01; Bright; 38.0; 104; 27Bet Lib ; 2.61; 13100;occ; 76; 0;27297
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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
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24; 4789.6; 21-MAY-2007 22:39:11; Dark ; 45.0; 140; 88Gam Peg ; 2.83; 26000;occ; 90; 0;27309
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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
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23; 4789.8; 22-MAY-2007 00:19:47; Dark ; 42.5; 140; 88Gam Peg ; 2.83; 26000;occ; 85; 0;27310
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3; 2373.2; 21-MAY-2007 08:34:07; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;27301
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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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11; 4786.9; 21-MAY-2007 09:14:20; Dark ; 45.5; 140; 88Gam Peg ; 2.83; 26000;occ; 91; 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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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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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
9; 3937.9; 21-MAY-2007 10:40:47; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 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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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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 5; 2030.3; 21-MAY-2007 16:51:23; Bright; 40.0; 102; 24Alp Ser ; 2.60; 4250;occ; 80; 0;27306
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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20070522_111116_000059692058_00209_27317_7872.N1

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12; 4792.6; 22-MAY-2007 12:04:01; Dark ; 46.0; 140; 88Gam Peg ; 2.83; 26000;occ; 92; 0;27317
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14; 4010.0; 22-MAY-2007 18:33:22; Bright; 55.0; 68; 18Alp Cas ; 2.22; 4500;occ; 110; 0;27321
15; 4530.2; 22-MAY-2007 18:42:02; Dark ; 44.5; 58; 21Alp And ; 2.07; 11000;occ; 89; 0;27321
16; 4793.8; 22-MAY-2007 18:46:26; Dark ; 46.0; 140; 88Gam Peg ; 2.83; 26000;occ; 92; 0;27321
17; 5321.4; 22-MAY-2007 18:55:14; Dark ; 45.0; 52; 16Bet Cet ; 2.04; 4500;occ; 90; 0;27321
18; 5842.7; 22-MAY-2007 19:03:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27321
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10; 4797.0; 23-MAY-2007 09:51:53; Dark ; 46.0; 140; 88Gam Peg ; 2.83; 26000;occ; 92; 0;27330
11; 5325.1; 23-MAY-2007 10:00:41; Dark ; 44.5; 52; 16Bet Cet ; 2.04; 4500;occ; 89; 0;27330
12; 5847.4; 23-MAY-2007 10:09:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27330
13; 6010.1; 23-MAY-2007 10:12:06; Dark ; 59.0; 63; Bet Gru ; 2.15; 2800;occ; 118; 0;27330
14; 6110.1; 23-MAY-2007 10:13:46; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;27330
15; 6433.8; 23-MAY-2007 10:19:09; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;27330
16; 6842.7; 23-MAY-2007 10:25:58; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;27330
17; 7008.2; 23-MAY-2007 10:28:44; Dark ; 48.0; 40; The Sco ; 1.86; 7100;occ; 96; 0;27330
18; 7242.7; 23-MAY-2007 10:32:38; Dark ; 50.5; 75; 26Eps Sco ; 2.29; 4250;occ; 101; 0;27330
19; 7415.2; 23-MAY-2007 10:35:31; Dark ; 55.5; 16; 21Alp Sco ; 1.02; 3000;occ; 111; 0;27330
20; 7510.4; 23-MAY-2007 10:37:06; Bright; 43.0; 80; 7Del Sco ; 2.32; 30000;occ; 86; 0;27330
21; 7666.0; 23-MAY-2007 10:39:42; Bright; 35.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 70; 0;27330

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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
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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
10; 4009.5; 23-MAY-2007 11:19:21; Bright; 53.0; 68; 18Alp Cas ; 2.22; 4500;occ; 106; 0;27331
11; 4531.9; 23-MAY-2007 11:28:03; Dark ; 46.0; 58; 21Alp And ; 2.07; 11000;occ; 92; 0;27331
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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
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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	; 46.5;	58;	21Alp And	; 2.07;	11000;occ;	93;	0;	27332
12;	4797.6;	23-MAY-2007	13:13:05;	Dark	; 45.0;	140;	88Gam Peg	; 2.83;	26000;occ;	90;	0;	27332
13;	5326.1;	23-MAY-2007	13:21:53;	Dark	; 43.5;	52;	16Bet Cet	; 2.04;	4500;occ;	87;	0;	27332
14;	5848.5;	23-MAY-2007	13:30:36;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	27332
15;	6011.6;	23-MAY-2007	13:33:19;	Dark	; 57.0;	63;	Bet Gru	; 2.15;	2800;occ;	114;	0;	27332
16;	6111.7;	23-MAY-2007	13:34:59;	Dark	; 49.0;	31;	Alp Gru	; 1.73;	15200;occ;	98;	0;	27332
17;	6435.3;	23-MAY-2007	13:40:23;	Dark	; 47.5;	45;	Alp Pav	; 1.94;	26000;occ;	95;	0;	27332
18;	6843.6;	23-MAY-2007	13:47:11;	Dark	; 41.0;	141;	Bet Ara	; 2.84;	4600;occ;	82;	0;	27332
19;	7009.4;	23-MAY-2007	13:49:57;	Dark	; 47.0;	40;	The Sco	; 1.86;	7100;occ;	94;	0;	27332
20;	7243.5;	23-MAY-2007	13:53:51;	Dark	; 49.5;	75;	26Eps Sco	; 2.29;	4250;occ;	99;	0;	27332
21;	7415.7;	23-MAY-2007	13:56:43;	Dark	; 59.5;	16;	21Alp Sco	; 1.02;	3000;occ;	119;	0;	27332

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1;	1524.3;	23-MAY-2007	13:59:08;	Bright;	42.0;	97;	8Bet1Sco	; 2.56;	30000;occ;	84;	0;	27333
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	; 45.0;	58;	21Alp And	; 2.07;	11000;occ;	90;	0;	27333
13;	4798.2;	23-MAY-2007	14:53:41;	Dark	; 45.5;	140;	88Gam Peg	; 2.83;	26000;occ;	91;	0;	27333
14;	5326.7;	23-MAY-2007	15:02:30;	Dark	; 42.5;	52;	16Bet Cet	; 2.04;	4500;occ;	85;	0;	27333
15;	5849.1;	23-MAY-2007	15:11:12;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	27333
16;	6012.4;	23-MAY-2007	15:13:56;	Dark	; 55.0;	63;	Bet Gru	; 2.15;	2800;occ;	110;	0;	27333
17;	6112.6;	23-MAY-2007	15:15:36;	Dark	; 44.5;	31;	Alp Gru	; 1.73;	15200;occ;	89;	0;	27333
18;	6436.1;	23-MAY-2007	15:20:59;	Dark	; 42.0;	45;	Alp Pav	; 1.94;	26000;occ;	84;	0;	27333
19;	6844.0;	23-MAY-2007	15:27:47;	Dark	; 42.5;	141;	Bet Ara	; 2.84;	4600;occ;	85;	0;	27333
20;	7009.9;	23-MAY-2007	15:30:33;	Dark	; 53.5;	40;	The Sco	; 1.86;	7100;occ;	107;	0;	27333
21;	7122.7;	23-MAY-2007	15:32:26;	Dark	; 26.0;	115;	34Ups Sco	; 2.70;	26000;occ;	52;	0;	27333
22;	7244.0;	23-MAY-2007	15:34:27;	Dark	; 49.0;	75;	26Eps Sco	; 2.29;	4250;occ;	98;	0;	27333
23;	7416.1;	23-MAY-2007	15:37:19;	Dark	; 3.0;	16;	21Alp Sco	; 1.02;	3000;occ;	6;	0;	27333

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1;	1380.1;	23-MAY-2007	15:37:19;	Dark	; 60.0;	16;	21Alp Sco	; 1.02;	3000;occ;	120;	0;	27334
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	; 45.5;	58;	21Alp And	; 2.07;	11000;occ;	91;	0;	27334
14;	4798.6;	23-MAY-2007	16:34:18;	Dark	; 45.5;	140;	88Gam Peg	; 2.83;	26000;occ;	91;	0;	27334
15;	5327.0;	23-MAY-2007	16:43:06;	Dark	; 43.0;	52;	16Bet Cet	; 2.04;	4500;occ;	86;	0;	27334
16;	5849.7;	23-MAY-2007	16:51:49;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	27334
17;	6013.2;	23-MAY-2007	16:54:32;	Dark	; 49.5;	63;	Bet Gru	; 2.15;	2800;occ;	99;	0;	27334
18;	6113.5;	23-MAY-2007	16:56:13;	Dark	; 45.0;	31;	Alp Gru	; 1.73;	15200;occ;	90;	0;	27334
19;	6436.8;	23-MAY-2007	17:01:36;	Dark	; 42.0;	45;	Alp Pav	; 1.94;	26000;occ;	84;	0;	27334
20;	6844.6;	23-MAY-2007	17:08:24;	Dark	; 39.5;	141;	Bet Ara	; 2.84;	4600;occ;	79;	0;	27334
21;	7010.5;	23-MAY-2007	17:11:10;	Dark	; 51.0;	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
8; 2370.6; 23-MAY-2007 17:34:26; Bright; 38.0; 83; ; 2.38; 11000;occ; 76; 0;27335
9; 2560.5; 23-MAY-2007 17:37:36; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70; 0;27335
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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
14; 4009.6; 23-MAY-2007 18:01:45; Bright; 44.5; 68; 18Alp Cas ; 2.22; 4500;occ; 89; 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
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6; 1734.3; 23-MAY-2007 19:04:26; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;27336
7; 2025.4; 23-MAY-2007 19:09:17; Bright; 39.0; 102; 24Alp Ser ; 2.60; 4250;occ; 78; 0;27336
8; 2370.6; 23-MAY-2007 19:15:02; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;27336
9; 2560.5; 23-MAY-2007 19:18:12; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;27336
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11; 3172.8; 23-MAY-2007 19:28:24; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;27336
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10; 417.0; 25-MAY-2007 07:35:39; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;27358
11; 818.7; 25-MAY-2007 07:42:21; Dark ; 48.5; 141; Bet Ara ; 2.84; 4600;occ; 97; 0;27358
12; 986.8; 25-MAY-2007 07:45:09; Dark ; 51.0; 40; The Sco ; 1.86; 7100;occ; 102; 0;27358

```

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13; 1097.2; 25-MAY-2007 07:46:59; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;27358
14; 1216.9; 25-MAY-2007 07:48:59; Dark ; 48.0; 75; 26Eps Sco ; 2.29; 4250;occ; 96; 0;27358
15; 1386.2; 25-MAY-2007 07:51:48; Dark ; 55.0; 16; 21Alp Sco ; 1.02; 3000;occ; 110; 0;27358
16; 1528.3; 25-MAY-2007 07:54:10; Bright; 39.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 78; 0;27358
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 2; 2022.4; 25-MAY-2007 08:02:24; Bright; 39.0; 102; 24Alp Ser ; 2.60; 4250;occ; 78; 0;27358
 3; 2369.6; 25-MAY-2007 08:08:11; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;27358
 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
 4; 3038.3; 25-MAY-2007 09:59:56; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;27359
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 8; 4008.2; 25-MAY-2007 10:16:06; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;27359
 9; 4383.7; 25-MAY-2007 10:22:21; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;27359
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
20; 7253.5; 25-MAY-2007 11:10:11; Dark ; 49.0; 75; 26Eps Sco ; 2.29; 4250;occ; 98; 0;27359
21; 7422.6; 25-MAY-2007 11:13:00; Dark ; 58.5; 16; 21Alp Sco ; 1.02; 3000;occ; 117; 0;27359
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 2; 2022.2; 25-MAY-2007 11:23:36; Bright; 38.5; 102; 24Alp Ser ; 2.60; 4250;occ; 77; 0;27360
 3; 2369.4; 25-MAY-2007 11:29:23; Bright; 37.5; 83; ; 2.38; 11000;occ; 75; 0;27360
 4; 2559.8; 25-MAY-2007 11:32:33; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;27360
 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
 7; 3446.6; 25-MAY-2007 11:47:20; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;27360
 8; 3936.2; 25-MAY-2007 11:55:30; Bright; 50.5; 76; 27Gam Cas ; 2.30; 30000;occ; 101; 0;27360
 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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16; 6135.8; 25-MAY-2007 12:32:09; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;27360
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
23; 7564.5; 25-MAY-2007 12:55:58; Bright; 39.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 78; 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
 3; 2369.4; 25-MAY-2007 13:09:59; Bright; 35.0; 83; ; 2.38; 11000;occ; 70; 0;27361
 4; 2559.8; 25-MAY-2007 13:13:09; Bright; 34.0; 180; 27Gam Boo ; 3.04; 8000;occ; 68; 0;27361
 5; 3037.6; 25-MAY-2007 13:21:07; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;27361
 6; 3170.9; 25-MAY-2007 13:23:20; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27361
 7; 3446.6; 25-MAY-2007 13:27:56; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;27361
 8; 3936.2; 25-MAY-2007 13:36:06; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;27361
 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
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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
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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
18; 6137.7; 25-MAY-2007 15:53:23; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;27362
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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 2; 1387.5; 25-MAY-2007 16:14:49; Dark ; 56.5; 16; 21Alp Sco ; 1.02; 3000;occ; 113; 0;27363
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 4; 1736.8; 25-MAY-2007 16:20:38; Bright; 36.5; 104; 27Bet Lib ; 2.61; 13100;occ; 73; 0;27363
 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
 7; 2559.7; 25-MAY-2007 16:34:21; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70; 0;27363
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10; 3446.7; 25-MAY-2007 16:49:08; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27363
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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 15; 5340.0; 25-MAY-2007 17:20:41; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;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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 2; 1100.2; 25-MAY-2007 17:50:38; Dark ; 50.0; 25; 35Lam Sco ; 1.62; 28000;occ; 100; 0;27364
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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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 7; 2021.7; 25-MAY-2007 18:05:59; Bright; 38.5; 102; 24Alp Ser ; 2.60; 4250;occ; 77; 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
 13; 3935.8; 25-MAY-2007 18:37:53; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;27364
 14; 4007.8; 25-MAY-2007 18:39:05; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;27364
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3; -159.9; 26-MAY-2007 23:40:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27381
4; 13.1; 26-MAY-2007 23:43:17; Dark ; 60.0; 63; Bet Gru ; 2.15; 2800;occ; 120; 0;27382
5; 118.3; 26-MAY-2007 23:45:02; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;27382
6; 433.8; 26-MAY-2007 23:50:18; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;27382
7; 828.8; 26-MAY-2007 23:56:53; Dark ; 43.0; 141; Bet Ara ; 2.84; 4600;occ; 86; 0;27382
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10; 1225.4; 27-MAY-2007 00:03:30; Dark ; 46.0; 75; 26Eps Sco ; 2.29; 4250;occ; 92; 0;27382
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12; 1531.8; 27-MAY-2007 00:08:36; Bright; 39.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 78; 0;27382
13; 1738.5; 27-MAY-2007 00:12:03; Bright; 36.5; 104; 27Bet Lib ; 2.61; 13100;occ; 73; 0;27382

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15; 2019.6; 27-MAY-2007 00:16:44; Bright; 38.0; 102; 24Alp Ser ; 2.60; 4250;occ; 76; 0;27382
16; 2369.1; 27-MAY-2007 00:22:33; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 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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10; 426.9; 26-MAY-2007 07:04:12; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;27372
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
13; 1104.2; 26-MAY-2007 07:15:29; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;27372
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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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11; 4385.1; 26-MAY-2007 08:10:10; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;27372
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13; 5344.4; 26-MAY-2007 08:26:09; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;27372
14; 5750.3; 26-MAY-2007 08:32:55; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;27372
15; 5870.8; 26-MAY-2007 08:34:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27372
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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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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10; 4385.3; 26-MAY-2007 09:50:46; Bright; 39.0; 53; 43Bet And ; 2.05; 3300;occ; 78; 0;27373
11; 4813.5; 26-MAY-2007 09:57:54; Dark ; 46.5; 140; 88Gam Peg ; 2.83; 26000;occ; 93; 0;27373
12; 5344.8; 26-MAY-2007 10:06:46; Dark ; 45.0; 52; 16Bet Cet ; 2.04; 4500;occ; 90; 0;27373
13; 5750.7; 26-MAY-2007 10:13:32; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;27373
14; 5871.3; 26-MAY-2007 10:15:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27373
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
20; 7141.0; 26-MAY-2007 10:36:42; Dark ; 49.5; 25; 35Lam Sco ; 1.62; 28000;occ; 99; 0;27373
21; 7258.5; 26-MAY-2007 10:38:39; Dark ; 47.5; 75; 26Eps Sco ; 2.29; 4250;occ; 95; 0;27373
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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 3; 2020.5; 26-MAY-2007 10:51:57; Bright; 38.5; 102; 24Alp Ser ; 2.60; 4250;occ; 77; 0;27374
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12; 4813.9; 26-MAY-2007 11:38:31; Dark ; 46.0; 140; 88Gam Peg ; 2.83; 26000;occ; 92; 0;27374
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21; 7141.5; 26-MAY-2007 12:17:18; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;27374
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6; 3018.2; 29-MAY-2007 11:14:20; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;27417
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19; 6497.0; 29-MAY-2007 17:14:07; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;27420

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4; 48.5; 30-MAY-2007 01:30:14; Dark ; 54.5; 63; Bet Gru ; 2.15; 2800;occ; 109; 0;27426
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7; 846.8; 30-MAY-2007 01:43:32; Dark ; 42.0; 141; Bet Ara ; 2.84; 4600;occ; 84; 0;27426
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19; 3446.8; 30-MAY-2007 02:26:52; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;27426

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 4; 1542.4; 31-MAY-2007 16:28:54; Bright; 37.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 75; 0;27449
 5; 1702.4; 31-MAY-2007 16:31:34; Bright; 41.5; 98; 13Zet Oph ; 2.57; 30000;occ; 83; 0;27449
 6; 1834.4; 31-MAY-2007 16:33:46; Bright; 39.5; 120; 1Del Oph ; 2.73; 3200;occ; 79; 0;27449
 7; 2015.4; 31-MAY-2007 16:36:47; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;27449
 8; 2370.7; 31-MAY-2007 16:42:42; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;27449
 9; 3008.2; 31-MAY-2007 16:53:20; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;27449
 10; 3166.4; 31-MAY-2007 16:55:58; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;27449
 11; 3446.9; 31-MAY-2007 17:00:39; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27449
 12; 3930.6; 31-MAY-2007 17:08:42; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;27449
 13; 4393.4; 31-MAY-2007 17:16:25; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;27449
 14; 5385.8; 31-MAY-2007 17:32:57; Dark ; 50.0; 52; 16Bet Cet ; 2.04; 4500;occ; 100; 0;27449
 15; 5646.7; 31-MAY-2007 17:37:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27449
 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