

GOMOS Daily Report 28-OCT-2004

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 actual month \(see template here\)](#)

[2.2 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. Statistics on SATU Noise Equivalent Angle](#)

[Level 2 products](#)

1. General Info

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	30OCT2004 05:01:41
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (28OCT2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (29OCT2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	50
Nb of prods with errors	1

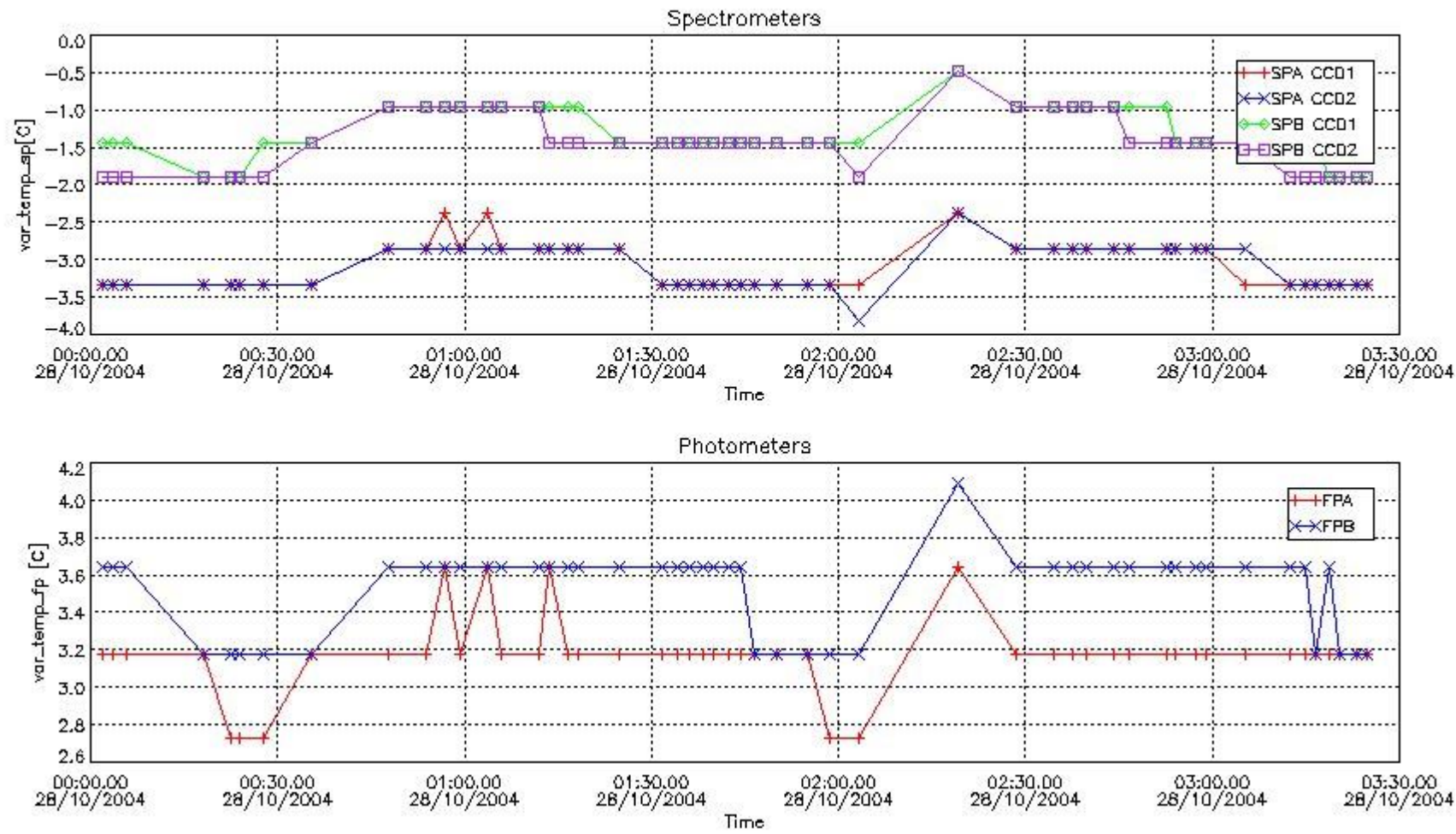
2. Summary of products arrived in PCF (Product Control Facility)

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

2.2 Summary of processed GOM_TRA_1P products

Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
GOM_TRA_1PNPDE20041028_000153_000000452031_00331_13912_0016.N1	28-OCT-2004 00:01:53	Bright	45.000	73	57Gam1And	2.2600	13100.	90	13912	No
GOM_TRA_1PNPDE20041028_000336_000000492031_00331_13912_0017.N1	28-OCT-2004 00:03:36	Bright	49.000	79	26Bet Per	2.3100	13100.	98	13912	No
GOM_TRA_1PNPDE20041028_000551_000000382031_00331_13912_0018.N1	28-OCT-2004 00:05:51	Bright	37.500	74	11Bet Cas	2.2680	6600.0	75	13912	No
GOM_TRA_1PNPDE20041028_001801_000000402031_00331_13912_0021.N1	28-OCT-2004 00:18:01	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	13912	No
GOM_TRA_1PNPDE20041028_002233_000000422031_00331_13912_0022.N1	28-OCT-2004 00:22:33	Bright	41.500	36	50Alp UMa	1.8000	6300.0	83	13912	No
GOM_TRA_1PNPDE20041028_002358_000000522031_00331_13912_0023.N1	28-OCT-2004 00:23:58	Bright	52.000	32	77Eps UMa	1.7630	11000.	104	13912	No
GOM_TRA_1PNPDE20041028_002745_000000402031_00331_13912_0024.N1	28-OCT-2004 00:27:45	Bright	40.000	174	52Psi UMa	3.0040	4400.0	80	13912	No
GOM_TRA_1PNPDE20041028_003527_000000542031_00331_13912_0025.N1	28-OCT-2004 00:35:27	Bright	54.000	166	17Eps Leo	2.9800	6000.0	108	13912	No
GOM_TRA_1PNPDE20041028_004753_000000732031_00331_13912_0000.N1	28-OCT-2004 00:47:53	Dark	73.000	48	30Alp Hya	1.9770	4100.0	146	13912	No
GOM_TRA_1PNPDE20041028_005354_000000392031_00331_13912_0001.N1	28-OCT-2004 00:53:54	Dark	39.000	99	Del Cen	2.5750	26000.	78	13912	No
GOM_TRA_1PNPDE20041028_005650_000000572031_00331_13912_0002.N1	28-OCT-2004 00:56:50	Dark	56.500	65	Lam Vel	2.2040	4400.0	113	13912	No
GOM_TRA_1PNPDE20041028_005912_000000412031_00332_13913_0003.N1	28-OCT-2004 00:59:12	Dark	40.500	71	lot Car	2.2460	7700.0	81	13913	No
GOM_TRA_1PNPDE20041028_010337_000000752031_00332_13913_0004.N1	28-OCT-2004 01:03:37	Dark	75.000	88	31Eta CMa	2.4480	20000.	150	13913	No
GOM_TRA_1PNPDE20041028_010554_000000552031_00332_13913_0005.N1	28-OCT-2004 01:05:54	Dark	54.500	2	Alp Car	-0.73600	7000.0	109	13913	No
GOM_TRA_1PNPDE20041028_011202_000000412031_00332_13913_0006.N1	28-OCT-2004 01:12:02	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	13913	No
GOM_TRA_1PNPDE20041028_011327_000000452031_00332_13913_0007.N1	28-OCT-2004 01:13:27	Dark	44.500	9	Alp Eri	0.45300	24000.	89	13913	No
GOM_TRA_1PNPDE20041028_011635_000000462031_00332_13913_0008.N1	28-OCT-2004 01:16:35	Dark	45.500	157	The1Eri	2.9060	9300.0	91	13913	No
GOM_TRA_1PNPDE20041028_011815_000000422031_00332_13913_0009.N1	28-OCT-2004 01:18:15	Dark	42.000	84	Alp Phe	2.3970	4500.0	84	13913	No
GOM_TRA_1PNPDE20041028_012448_000000482031_00332_13913_0010.N1	28-OCT-2004 01:24:48	Bright	47.500	52	16Bet Cet	2.0370	4500.0	95	13913	No
GOM_TRA_1PNPDE20041028_013142_000000652031_00332_13913_0011.N1	28-OCT-2004 01:31:42	Bright	64.500	94	92Alp Cet	2.5260	3100.0	129	13913	No
GOM_TRA_1PNPDE20041028_013415_000000412031_00332_13913_0012.N1	28-OCT-2004 01:34:15	Bright	41.000	140	88Gam Peg	2.8340	26000.	82	13913	No
GOM_TRA_1PNPDE20041028_013556_000000432031_00332_13913_0013.N1	28-OCT-2004 01:35:56	Bright	42.500	105	6Bet Ari	2.6450	8900.0	85	13913	No
GOM_TRA_1PNPDE20041028_013810_000000392031_00332_13913_0014.N1	28-OCT-2004 01:38:10	Bright	38.500	58	21Alp And	2.0730	11000.	77	13913	No
GOM_TRA_1PNPDE20041028_013950_000000422031_00332_13913_0015.N1	28-OCT-2004 01:39:50	Bright	41.500	53	43Bet And	2.0480	3300.0	83	13913	No
GOM_TRA_1PNPDE20041028_014231_000000442031_00332_13913_0016.N1	28-OCT-2004 01:42:31	Bright	44.000	73	57Gam1And	2.2600	13100.	88	13913	No
GOM_TRA_1PNPDE20041028_014412_000000482031_00332_13913_0017.N1	28-OCT-2004 01:44:12	Bright	48.000	79	26Bet Per	2.3100	13100.	96	13913	No
GOM_TRA_1PNPDE20041028_014627_000000382031_00332_13913_0018.N1	28-OCT-2004 01:46:27	Bright	38.000	74	11Bet Cas	2.2680	6600.0	76	13913	No
GOM_TRA_1PNPDE20041028_014958_000000402031_00332_13913_0019.N1	28-OCT-2004 01:49:58	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	13913	No
GOM_TRA_1PNPDE20041028_015457_000000392031_00332_13913_0020.N1	28-OCT-2004 01:54:57	Bright	39.000	49	1Alp UMi	1.9900	6300.0	78	13913	No
GOM_TRA_1PNPDE20041028_015837_000000402031_00332_13913_0021.N1	28-OCT-2004 01:58:37	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	13913	No
GOM_TRA_1PNPDE20041028_020309_000000422031_00332_13913_0022.N1	28-OCT-2004 02:03:09	Bright	42.000	36	50Alp UMa	1.8000	6300.0	84	13913	No
GOM_TRA_1PNPDE20041028_021906_000002552031_00332_13913_0000.N1	28-OCT-2004 02:19:06	Twilight	255.00	17	78Bet Gem	1.1610	4500.0	510	13913	Yes
GOM_TRA_1PNPDE20041028_022830_000000682031_00332_13913_0001.N1	28-OCT-2004 02:28:30	Dark	68.000	48	30Alp Hya	1.9770	4100.0	136	13913	No
GOM_TRA_1PNPDE20041028_023431_000000392031_00332_13913_0002.N1	28-OCT-2004 02:34:31	Dark	39.000	99	Del Cen	2.5750	26000.	78	13913	No
GOM_TRA_1PNPDE20041028_023726_000000602031_00332_13913_0003.N1	28-OCT-2004 02:37:26	Dark	60.000	65	Lam Vel	2.2040	4400.0	120	13913	No
GOM_TRA_1PNPDE20041028_023948_000000422031_00333_13914_0004.N1	28-OCT-2004 02:39:48	Dark	42.000	71	lot Car	2.2460	7700.0	84	13914	No
GOM_TRA_1PNPDE20041028_024415_000000752031_00333_13914_0005.N1	28-OCT-2004 02:44:15	Dark	75.000	88	31Eta CMa	2.4480	20000.	150	13914	No
GOM_TRA_1PNPDE20041028_024632_000000632031_00333_13914_0006.N1	28-OCT-2004 02:46:32	Dark	62.500	2	Alp Car	-0.73600	7000.0	125	13914	No
GOM_TRA_1PNPDE20041028_025239_000000412031_00333_13914_0007.N1	28-OCT-2004 02:52:39	Dark	41.000	143	Alp Hyi	2.8570	7200.0	82	13914	No
GOM_TRA_1PNPDE20041028_025403_000000502031_00333_13914_0008.N1	28-OCT-2004 02:54:03	Dark	49.500	9	Alp Eri	0.45300	24000.	99	13914	No
GOM_TRA_1PNPDE20041028_025712_000000452031_00333_13914_0009.N1	28-OCT-2004 02:57:12	Dark	45.000	157	The1Eri	2.9060	9300.0	90	13914	No
GOM_TRA_1PNPDE20041028_025851_000000442031_00333_13914_0010.N1	28-OCT-2004 02:58:51	Dark	43.500	84	Alp Phe	2.3970	4500.0	87	13914	No
GOM_TRA_1PNPDE20041028_030524_000000472031_00333_13914_0011.N1	28-OCT-2004 03:05:24	Bright	47.000	52	16Bet Cet	2.0370	4500.0	94	13914	No
GOM_TRA_1PNPDE20041028_031218_000000642031_00333_13914_0012.N1	28-OCT-2004 03:12:18	Bright	63.500	94	92Alp Cet	2.5260	3100.0	127	13914	No
GOM_TRA_1PNPDE20041028_031453_000000382031_00333_13914_0013.N1	28-OCT-2004 03:14:53	Bright	38.000	140	88Gam Peg	2.8340	26000.	76	13914	No
GOM_TRA_1PNPDE20041028_031632_000000422031_00333_13914_0014.N1	28-OCT-2004 03:16:32	Bright	42.000	105	6Bet Ari	2.6450	8900.0	84	13914	No
GOM_TRA_1PNPDE20041028_031846_000000382031_00333_13914_0015.N1	28-OCT-2004 03:18:46	Bright	38.000	58	21Alp And	2.0730	11000.	76	13914	No
GOM_TRA_1PNPDE20041028_032026_000000402031_00333_13914_0016.N1	28-OCT-2004 03:20:26	Bright	39.500	53	43Bet And	2.0480	3300.0	79	13914	No
GOM_TRA_1PNPDE20041028_032306_000000432031_00333_13914_0017.N1	28-OCT-2004 03:23:06	Bright	42.500	73	57Gam1And	2.2600	13100.	85	13914	No

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



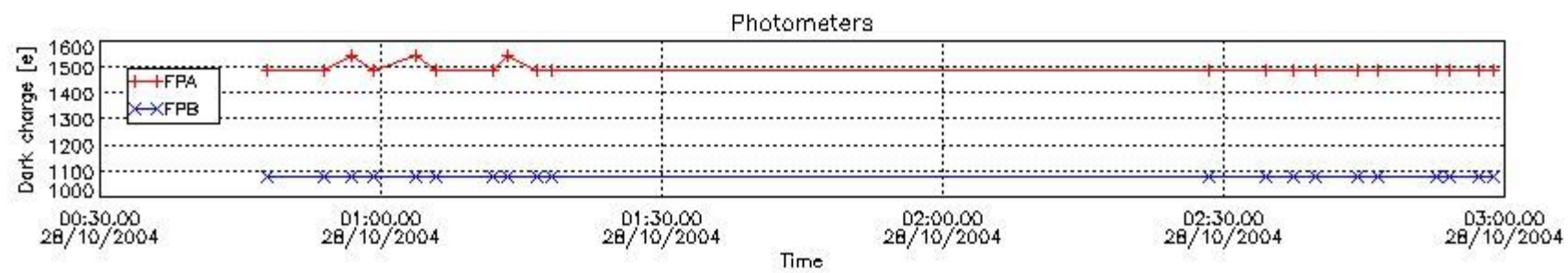
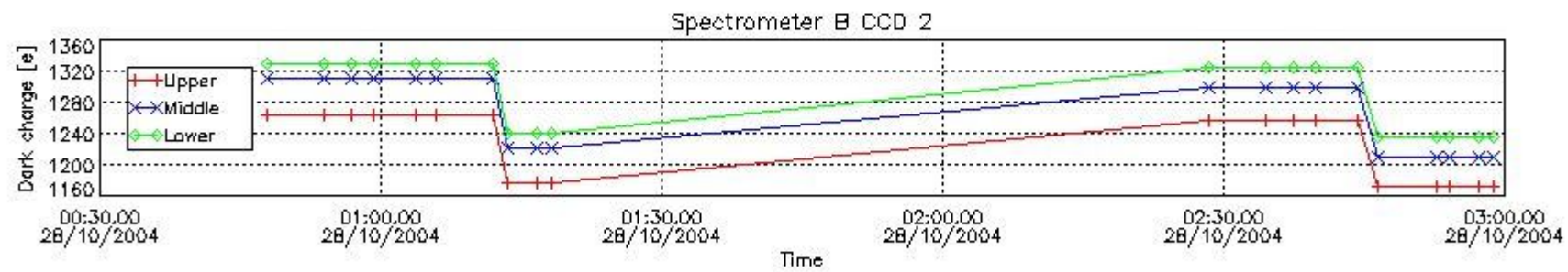
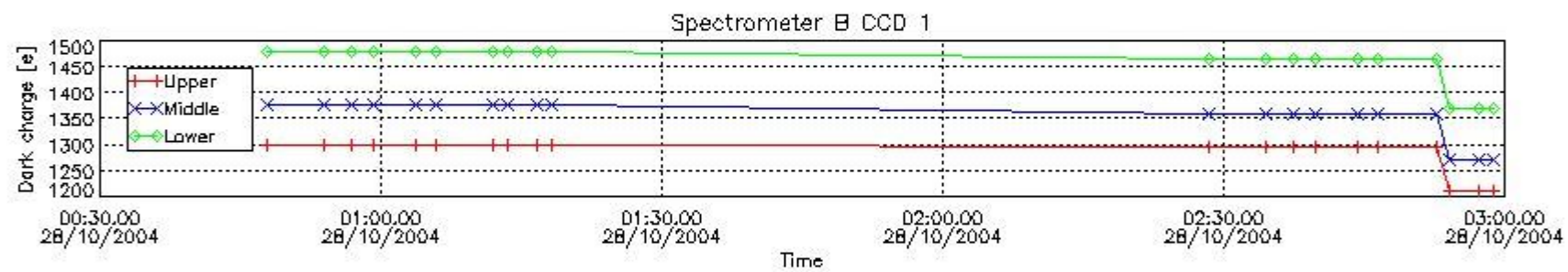
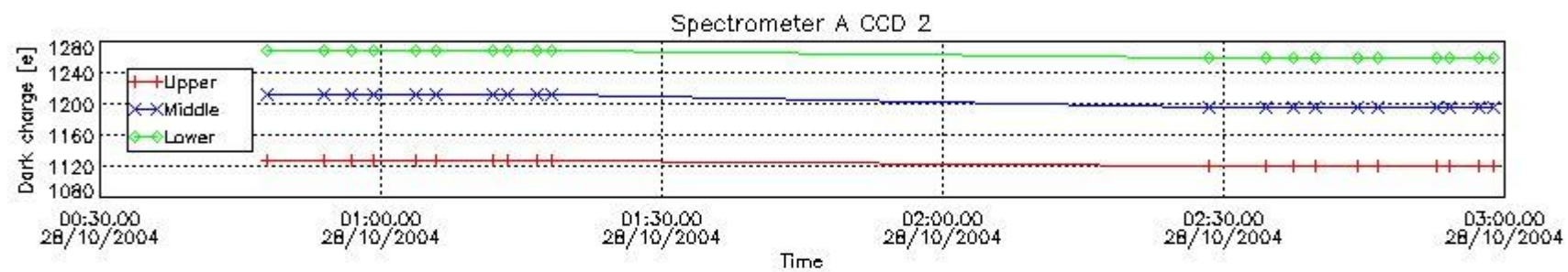
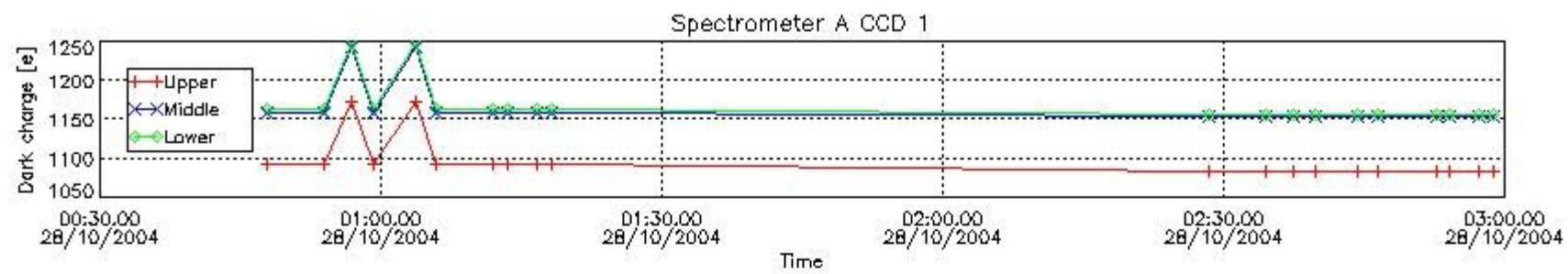
4. Overview of dark signal processing per product

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



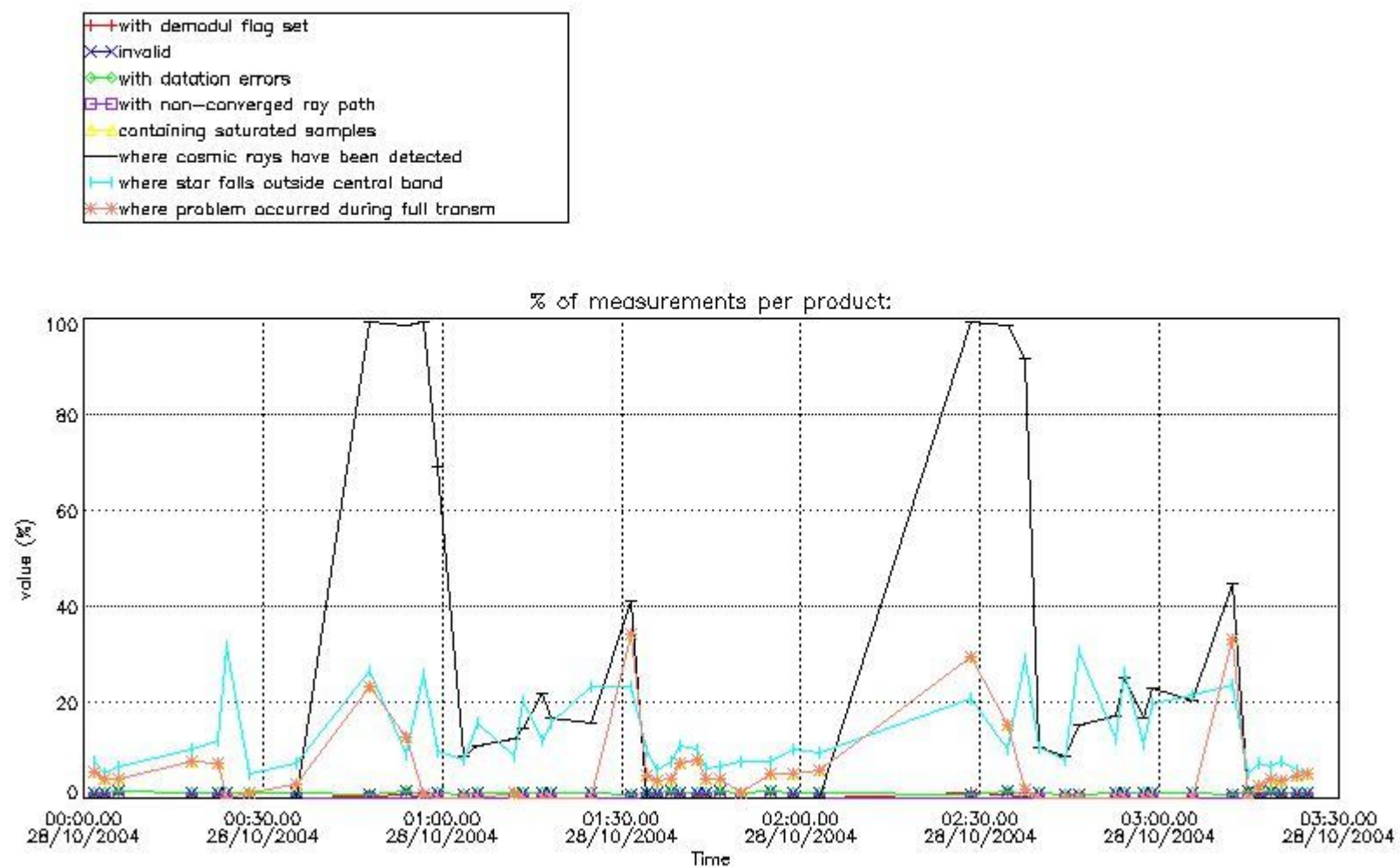
5. Demodulation flag and quality information monitoring

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.

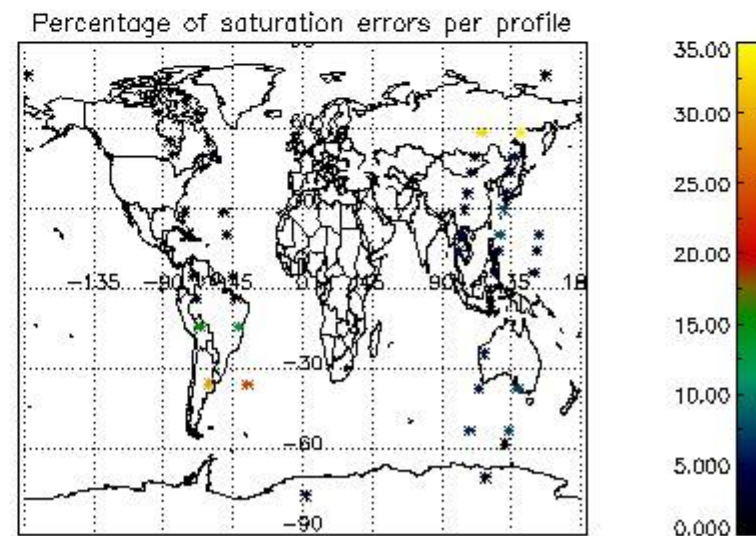
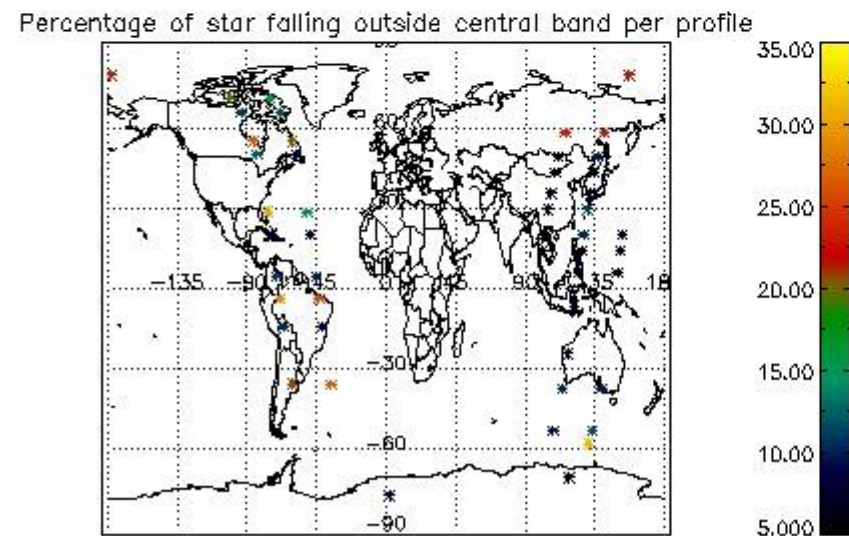
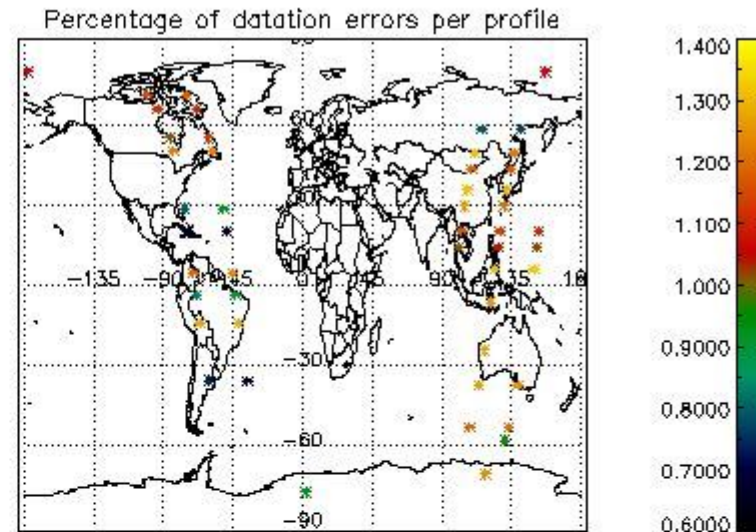
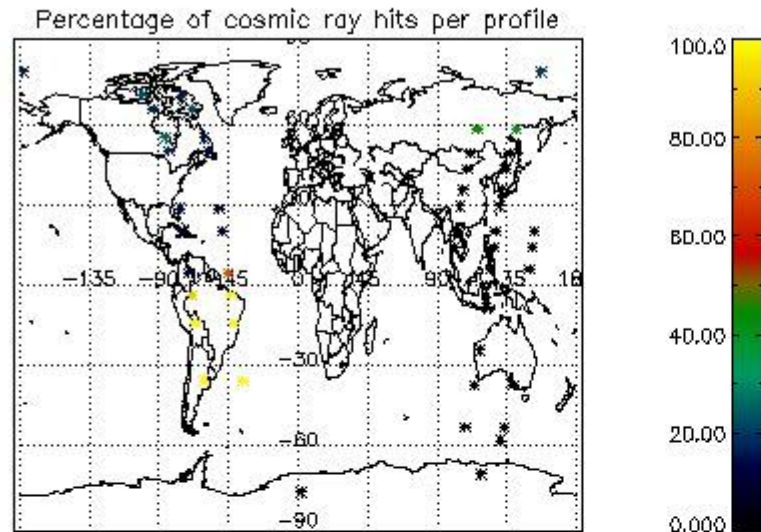
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	14.2857 %
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)



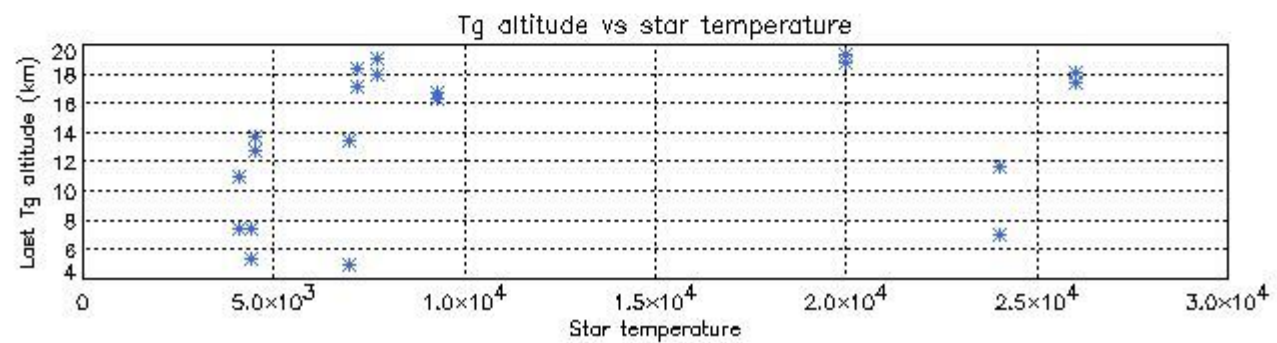
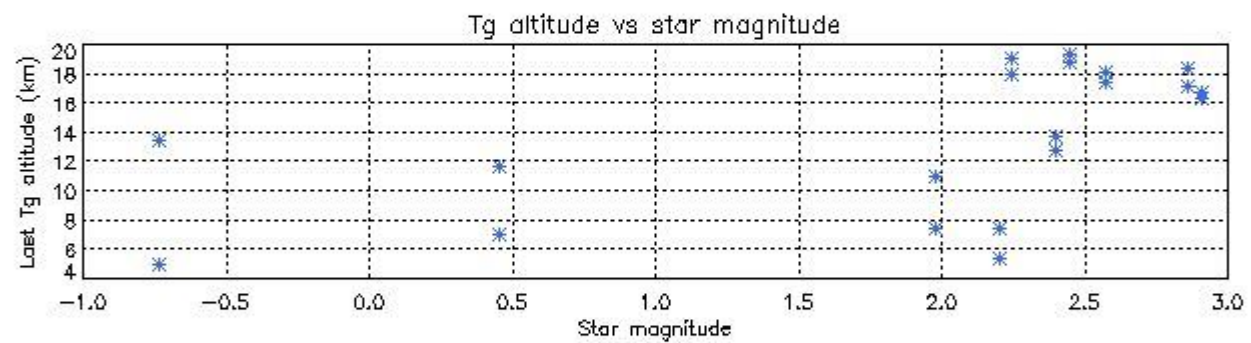
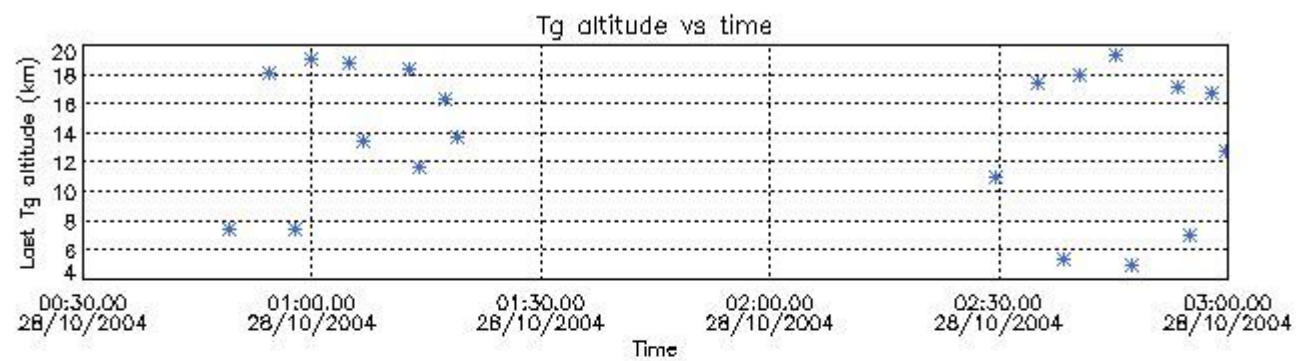
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.700	17.855	NaN
St. deviation:	4.9605	4.5195	NaN
Maximum:	19.301	22.058	NaN
Minimum:	5.0141	4.7541	NaN
Number of data:	20.000	29.000	NaN

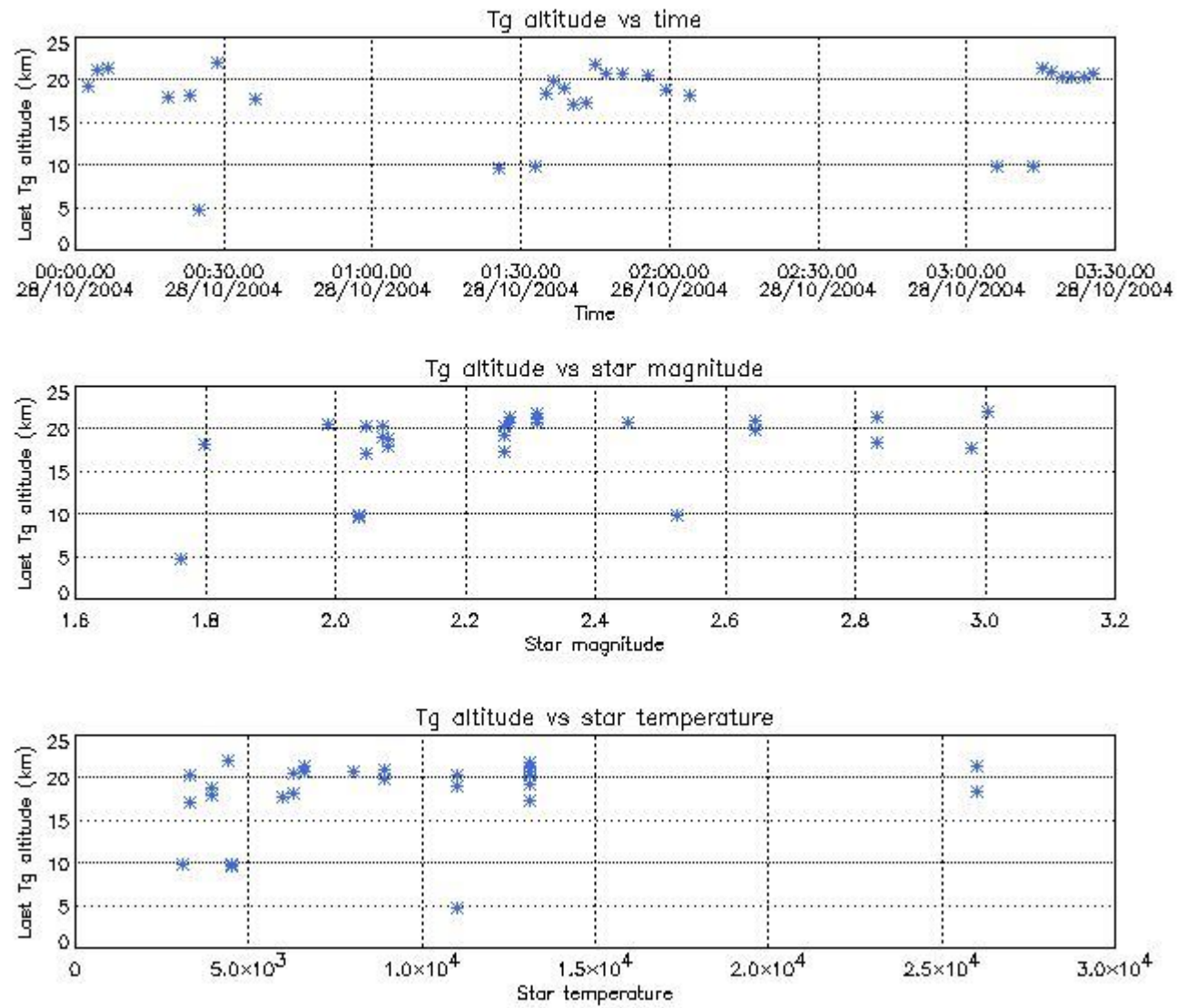
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

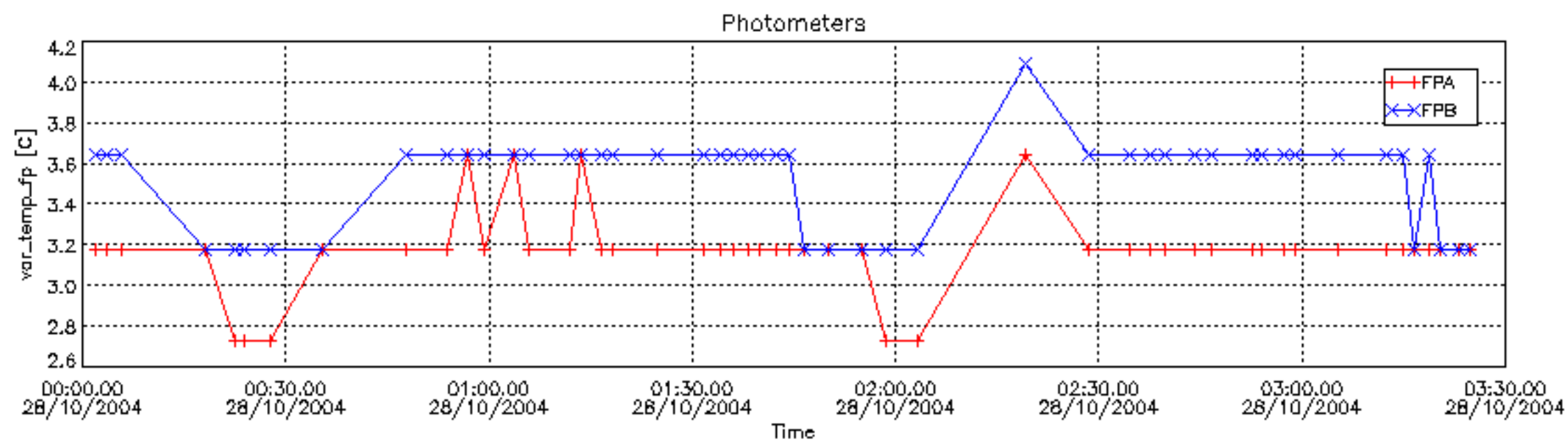
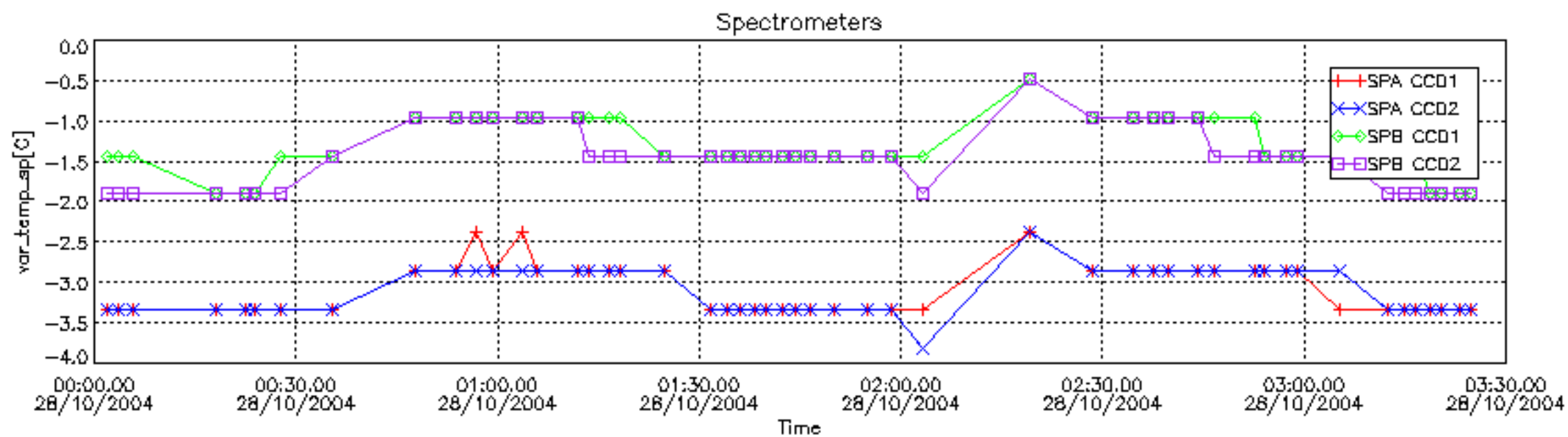
Tangent altitude at which the star is lost

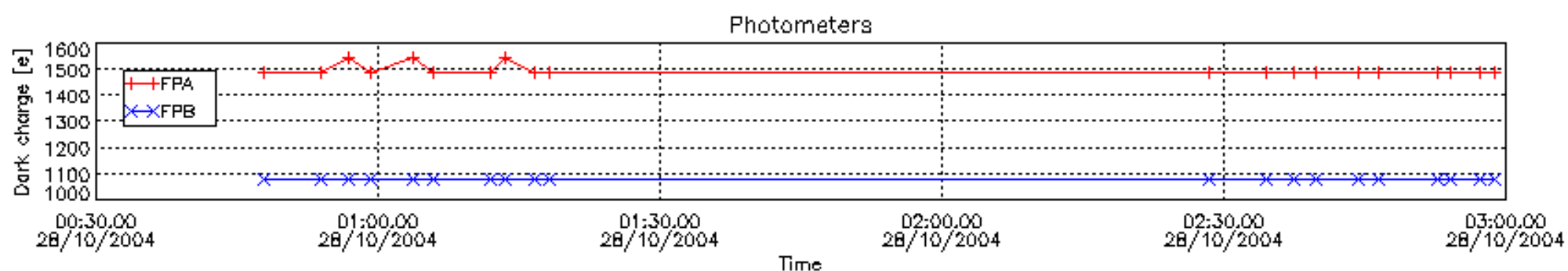
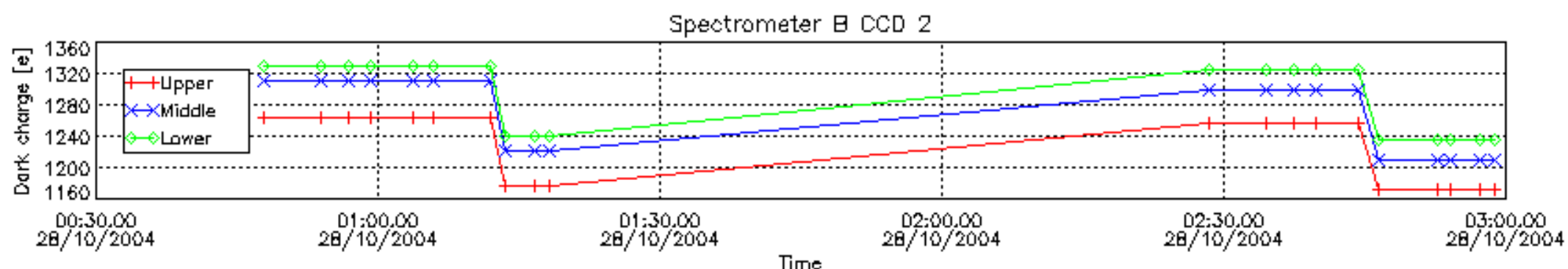
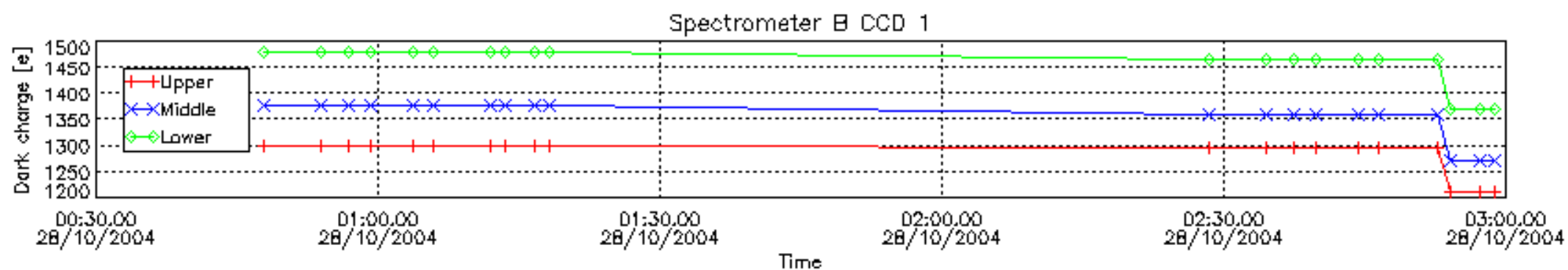
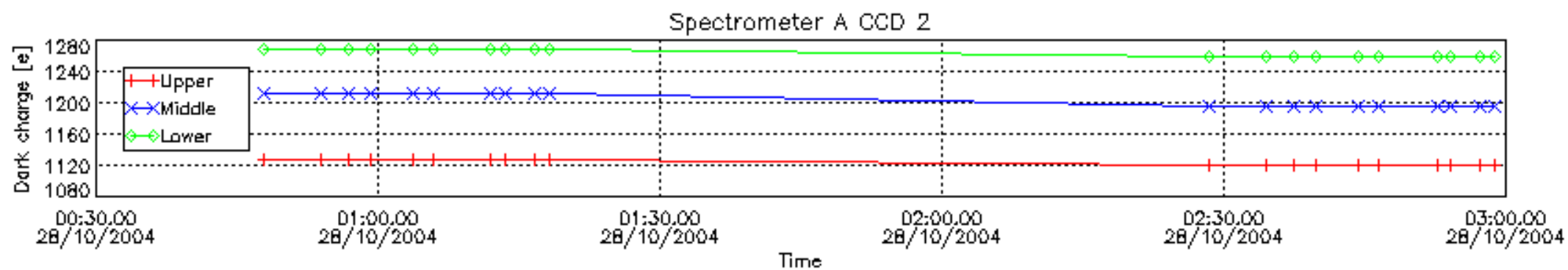
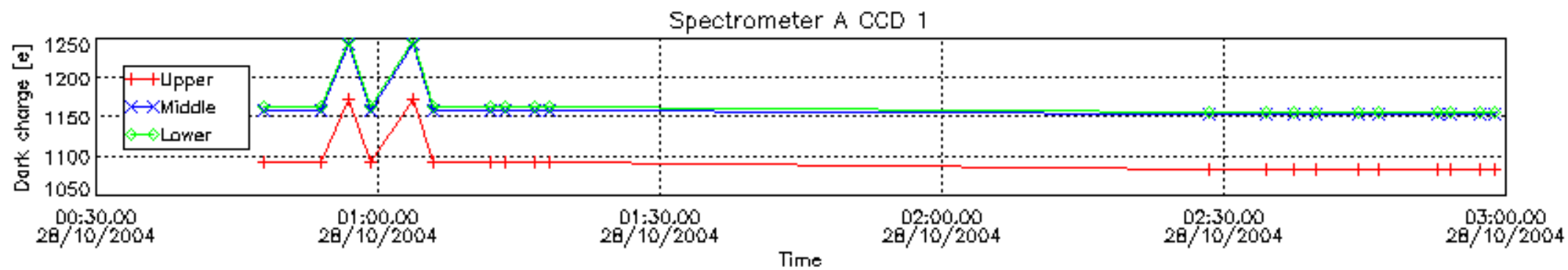


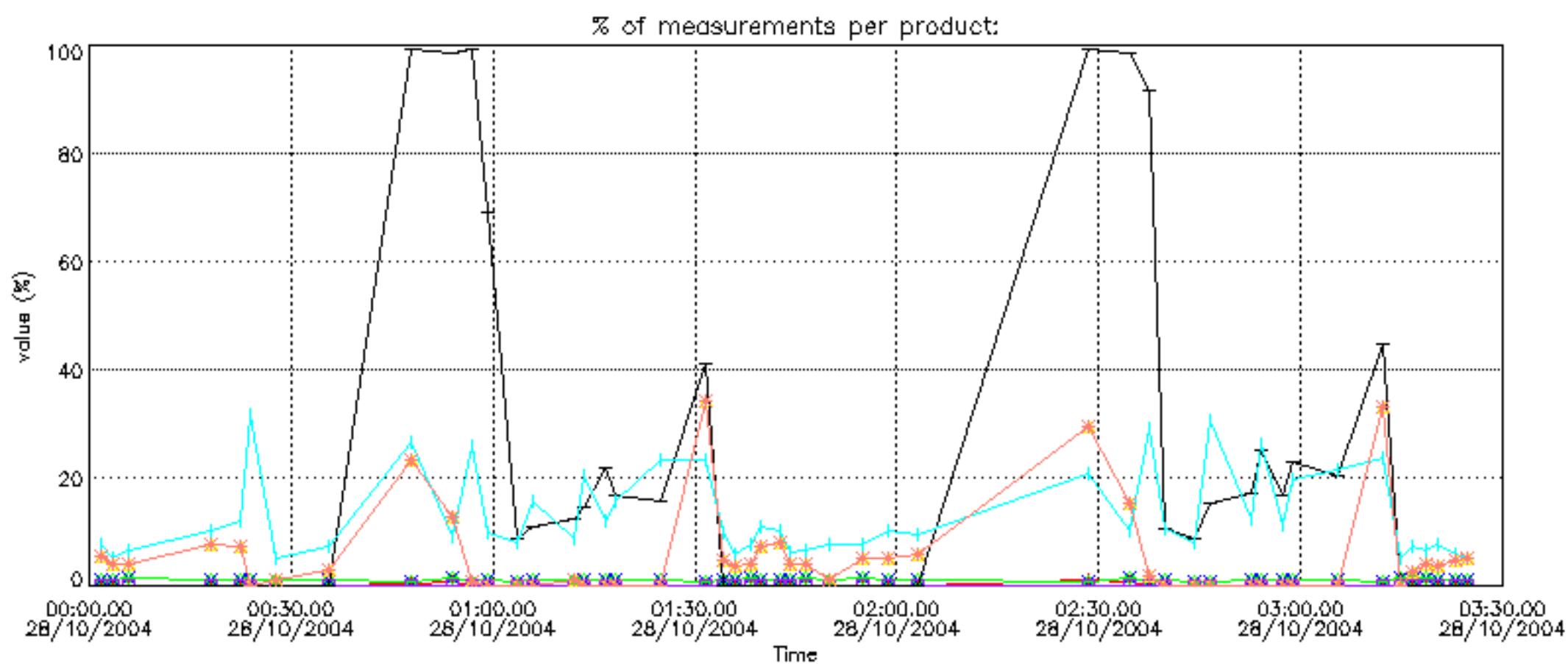
7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

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 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.

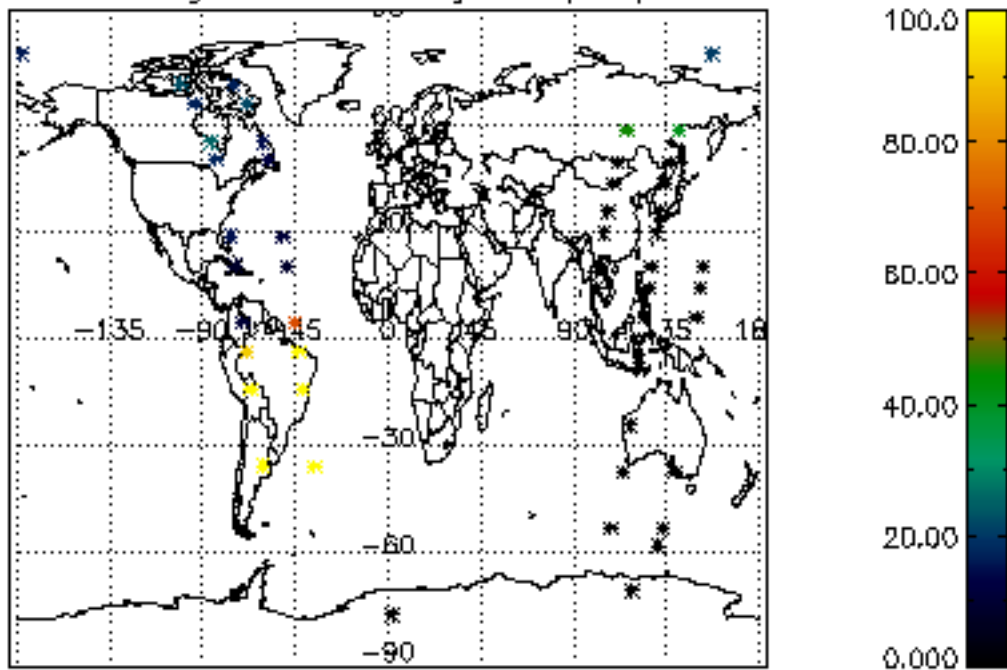
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1461.5	1447.1	1461.1	1446.9
St. deviation:	5.4656	6.1942	6.1639	7.0433
Maximum:	1626.0	1608.0	1506.0	1504.0
Minimum:	1450.0	1432.0	1435.0	1429.0
Number of data:	26150.	26150.	33800.	33800.



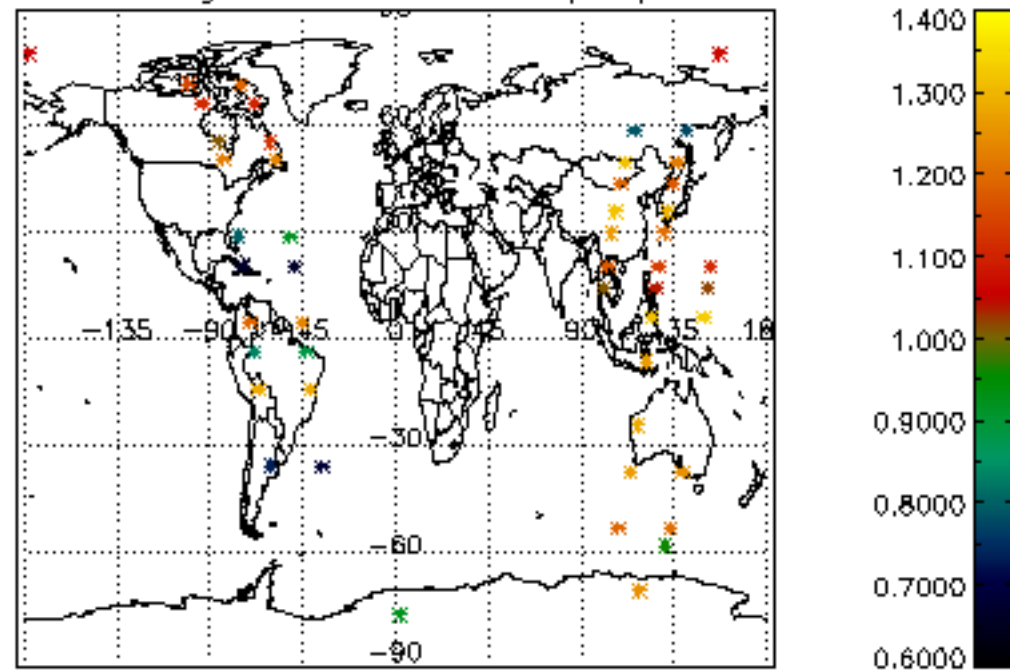




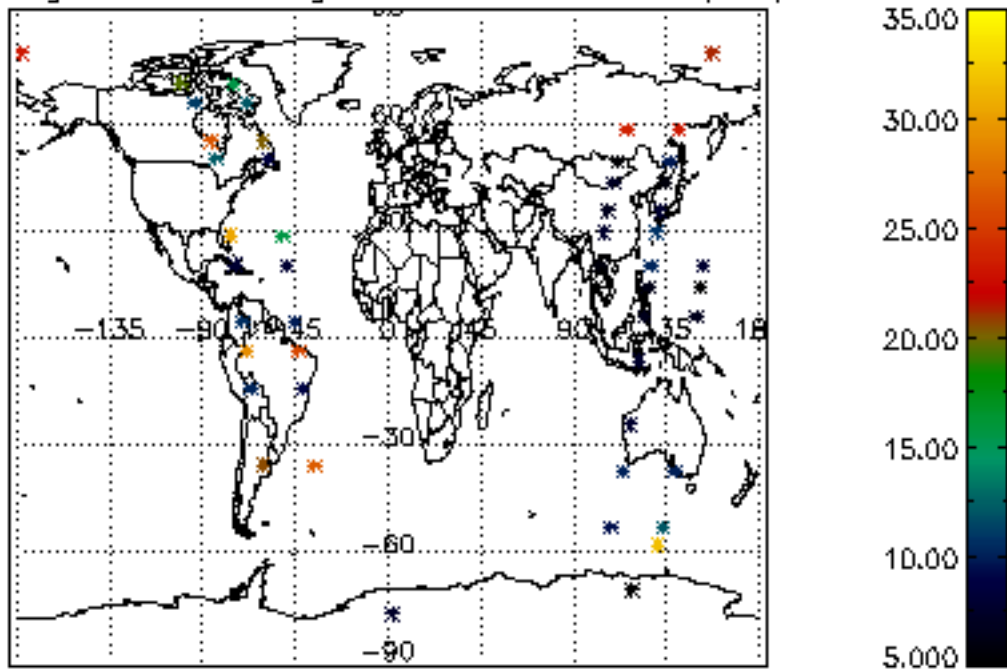
Percentage of cosmic ray hits per profile



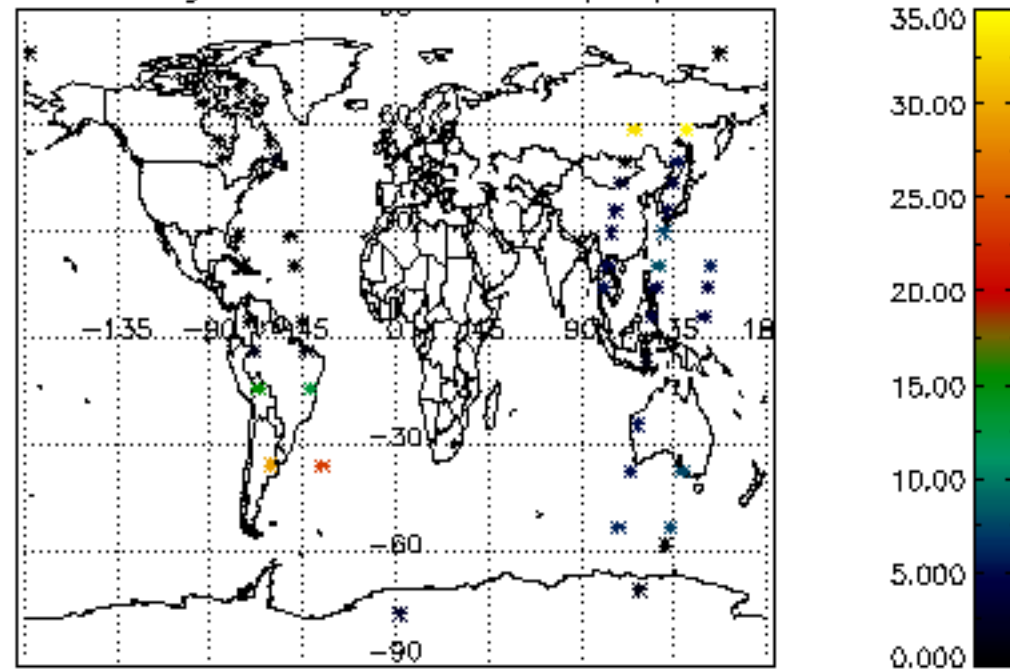
Percentage of datation errors per profile



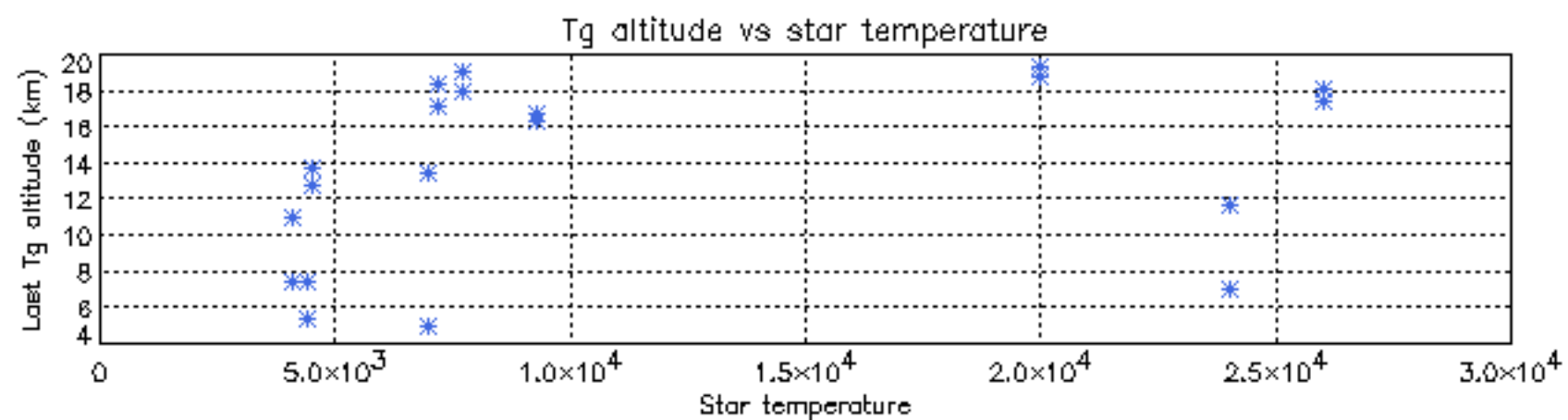
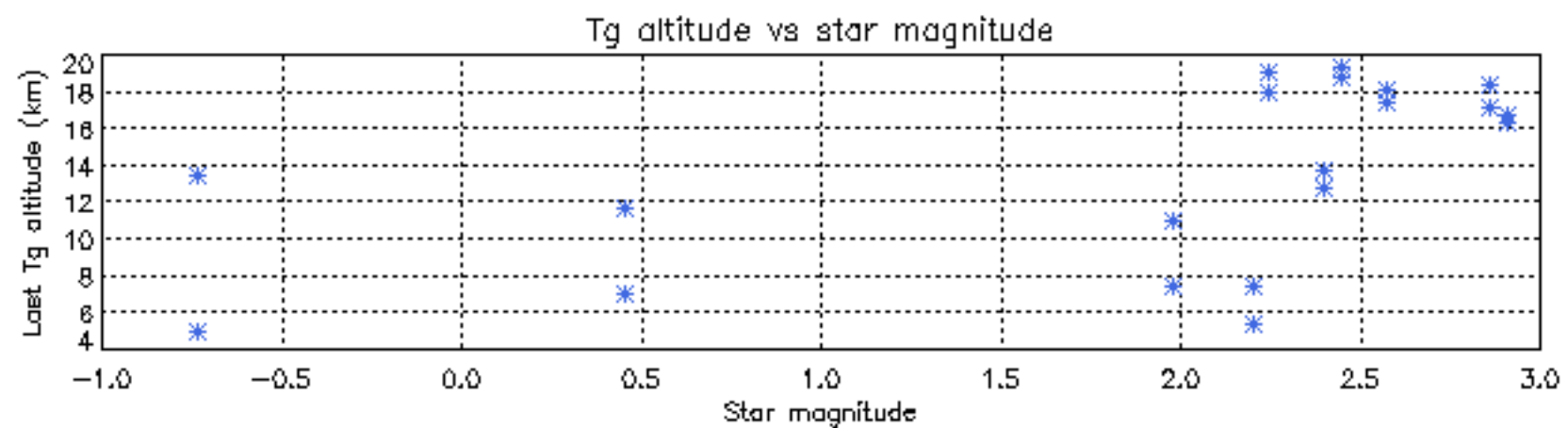
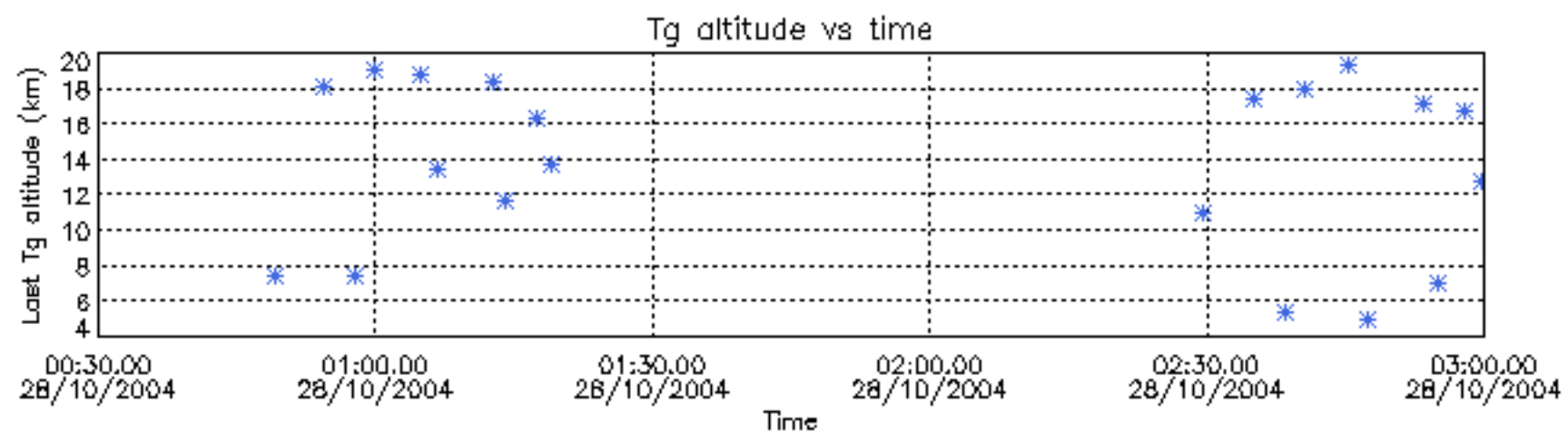
Percentage of star falling outside central band per profile



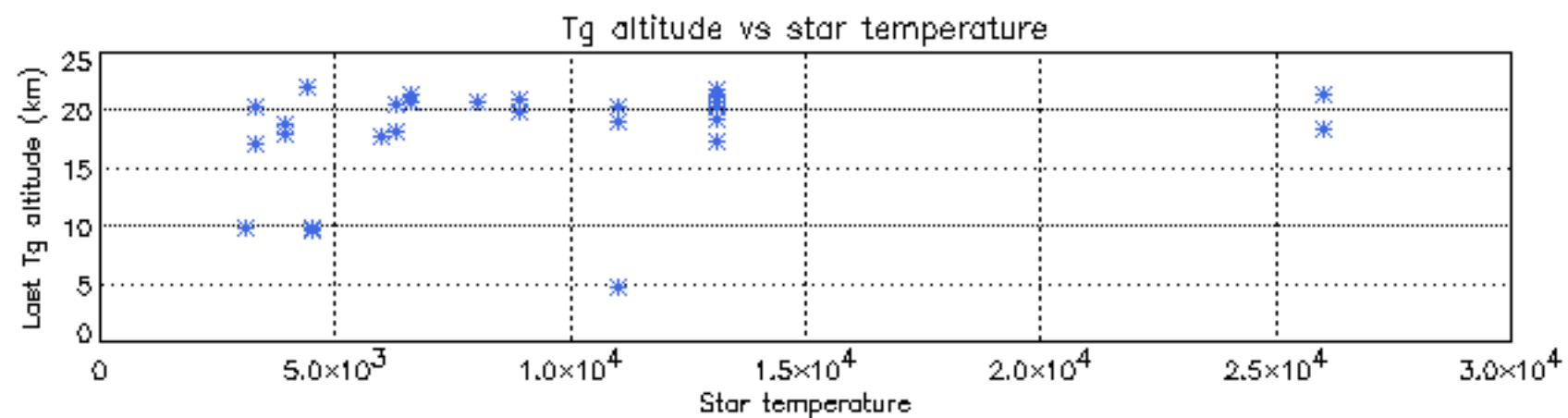
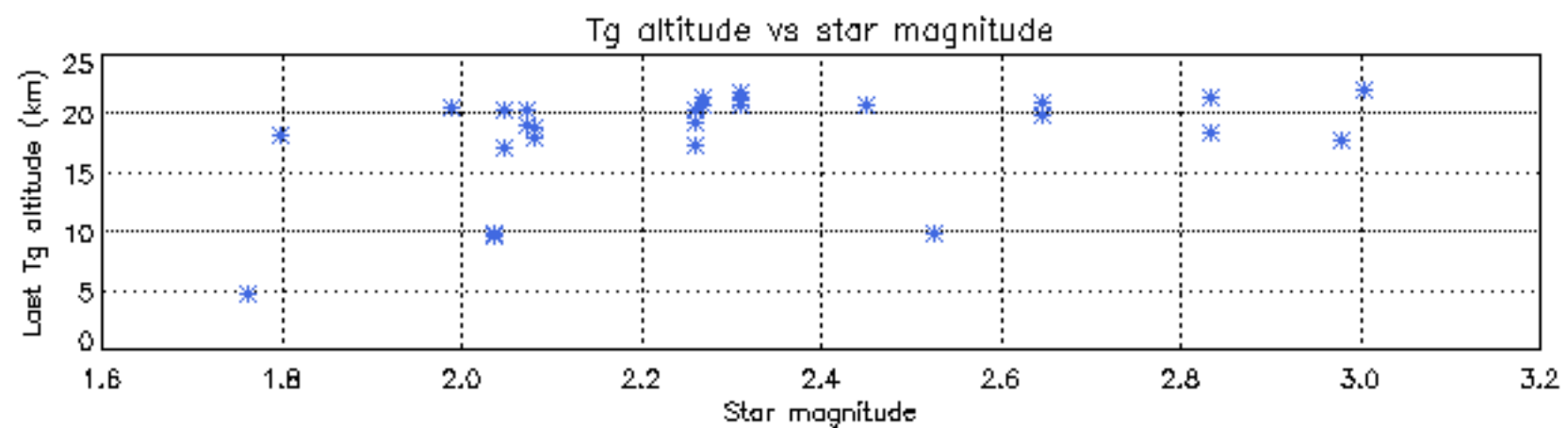
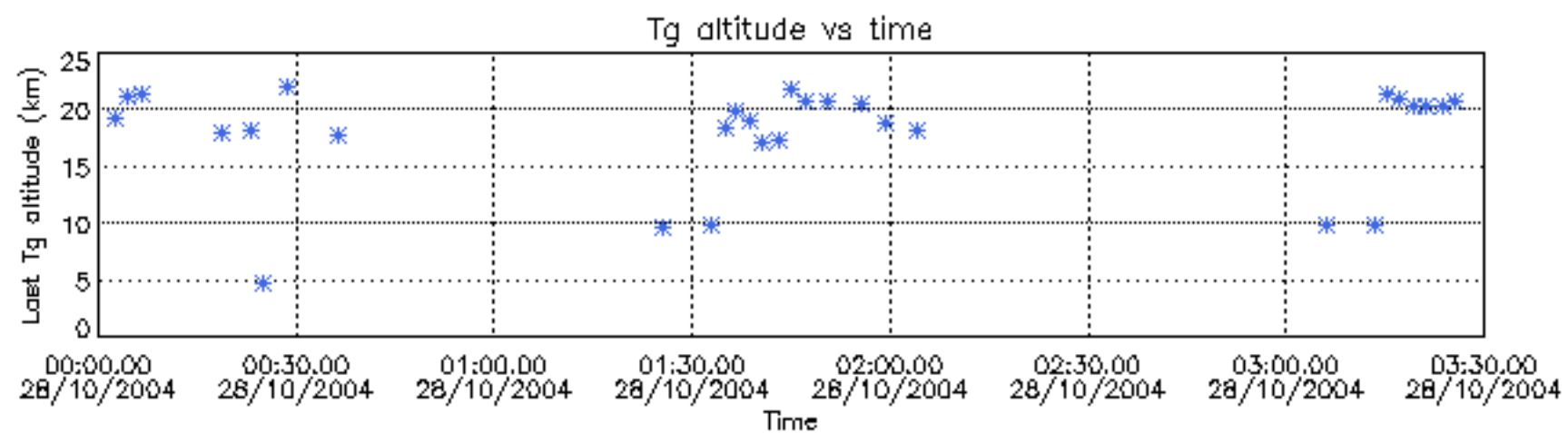
Percentage of saturation errors per profile



Tangent altitude at which the star is lost



Tangent altitude at which the star is lost



/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20041001_013221_000043242030_00446_13526_0792.N1

1; -862.4; 01-OCT-2004 01:32:21; Dark ; 72.5; 8; 10Alp CMi ; 0.40; 6500;occ; 145; 12;13526
 2; -448.3; 01-OCT-2004 01:39:15; Dark ; 54.0; 132; 15Rho Pup ; 2.80; 6900;occ; 108; 0;13526
 3; -295.0; 01-OCT-2004 01:41:49; Dark ; 47.0; 65; Lam Vel ; 2.20; 4400;occ; 94; 0;13526
 4; -140.4; 01-OCT-2004 01:44:23; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;13526
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19;-1227.2; 01-OCT-2004 16:31:40; Dark ; 102.5; 170; 27Eps Gem ; 3.00; 9700;occ; 205; 0;13535
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22; -290.3; 01-OCT-2004 16:47:17; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;13535
23; -212.5; 01-OCT-2004 16:48:35; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;13535
24; -132.6; 01-OCT-2004 16:49:55; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;13535
25; -31.2; 01-OCT-2004 16:51:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13535
26; 100.1; 01-OCT-2004 16:53:47; Dark ; 46.5; 29; Bet Car ; 1.67; 10200;occ; 93; 0;13536
27; 324.8; 01-OCT-2004 16:57:32; Dark ; 63.5; 108; Alp Col ; 2.65; 15200;occ; 127; 0;13536
28; 603.9; 01-OCT-2004 17:02:11; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;13536
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5;-4090.5; 01-OCT-2004 17:24:33; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;13536
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11;-3011.1; 01-OCT-2004 17:42:32; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;13536
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17;-1846.8; 01-OCT-2004 18:01:56; Bright; 36.5; 174; 52Psi UMA ; 3.00; 4400;occ; 73; 0;13536
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23; -289.5; 01-OCT-2004 18:27:54; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;13536
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26; -30.6; 01-OCT-2004 18:32:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13536
27; 100.3; 01-OCT-2004 18:34:24; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;13537
28; 326.6; 01-OCT-2004 18:38:10; Dark ; 64.0; 108; Alp Col ; 2.65; 15200;occ; 128; 0;13537
29; 604.1; 01-OCT-2004 18:42:47; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;13537
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31; 824.0; 01-OCT-2004 18:46:27; Dark ; 41.0; 9; Alp Eri ; 0.45; 24000;occ; 82; 0;13537
32; 924.0; 01-OCT-2004 18:48:07; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;13537
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16;-2039.8; 01-OCT-2004 19:39:19; Bright; 52.0; 82; 48Bet UMA ; 2.37; 10600;occ; 104; 0;13537
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19;-1522.4; 01-OCT-2004 19:47:57; Bright; 59.5; 24; 66Alp Gem ; 1.58; 10200;occ; 119; 0;13537
20;-1225.4; 01-OCT-2004 19:52:54; Dark ; 116.0; 170; 27Eps Gem ; 3.00; 9700;occ; 232; 0;13537

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23; -289.1; 01-OCT-2004 20:08:30; Dark ; 42.5; 65; Lam Vel ; 2.20; 4400;occ; 85; 0;13537
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25; -130.8; 01-OCT-2004 20:11:08; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;13537
26; -29.8; 01-OCT-2004 20:12:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13537
27; 100.3; 01-OCT-2004 20:14:59; Dark ; 45.5; 29; Bet Car ; 1.67; 10200;occ; 91; 0;13538
28; 327.8; 01-OCT-2004 20:18:47; Dark ; 68.0; 108; Alp Col ; 2.65; 15200;occ; 136; 0;13538
29; 604.2; 01-OCT-2004 20:23:23; Dark ; 39.5; 135; Bet Hyi ; 2.82; 5800;occ; 79; 0;13538
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6; 182.6; 02-OCT-2004 01:18:09; Dark ; 56.5; 2; Alp Car ; -0.74; 7000;occ; 113; 0;13541
7; 331.7; 02-OCT-2004 01:20:39; Dark ; 61.0; 108; Alp Col ; 2.65; 15200;occ; 122; 0;13541
8; 604.7; 02-OCT-2004 01:25:12; Dark ; 39.0; 135; Bet Hyi ; 2.82; 5800;occ; 78; 0;13541
9; 737.6; 02-OCT-2004 01:27:24; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;13541
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11; 927.3; 02-OCT-2004 01:30:34; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;13541
12; 1144.6; 02-OCT-2004 01:34:11; Dark ; 51.0; 84; Alp Phe ; 2.40; 4500;occ; 102; 0;13541
13; 1421.3; 02-OCT-2004 01:38:48; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;13541
14; 1555.6; 02-OCT-2004 01:41:02; Dark ; 53.0; 52; 16Bet Cet ; 2.04; 4500;occ; 106; 0;13541
15; 1947.3; 02-OCT-2004 01:47:34; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;13541
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19; 2645.8; 02-OCT-2004 01:59:13; Bright; 49.0; 53; 43Bet And ; 2.05; 3300;occ; 98; 0;13541
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26; 2644.6; 02-OCT-2004 03:39:47; Bright; 47.5; 53; 43Bet And ; 2.05; 3300;occ; 95; 0;13542
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30; 3426.2; 02-OCT-2004 03:52:49; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;13542

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13; 184.7; 02-OCT-2004 04:39:24; Dark ; 59.5; 2; Alp Car ;-0.74; 7000;occ; 119; 0;13543
14; 334.8; 02-OCT-2004 04:41:54; Dark ; 63.0; 108; Alp Col ; 2.65; 15200;occ; 126; 0;13543
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16; 738.6; 02-OCT-2004 04:48:37; Dark ; 41.5; 143; Alp Hyi ; 2.86; 7200;occ; 83; 0;13543
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19; 1145.2; 02-OCT-2004 04:55:24; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 0;13543
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19; -428.7; 02-OCT-2004 14:32:46; Dark ; 48.5; 132; 15Rho Pup ; 2.80; 6900;occ; 97; 0;13548
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22; 3237.6; 02-OCT-2004 23:56:52; Bright; 52.5; 160; 23Gam Per ; 2.93; 4700;occ; 105; 0;13554
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18; 1145.2; 03-OCT-2004 06:04:23; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;13558
19; 1425.3; 03-OCT-2004 06:09:03; Dark ; 43.0; 18; 24Alp PsA ; 1.17; 9700;occ; 86; 0;13558
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30; 3426.5; 03-OCT-2004 06:42:25; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;13558
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19; -821.4; 03-OCT-2004 22:17:36; Dark ; 76.0; 8; 10Alp CMi ; 0.40; 6500;occ; 152; 0;13567

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8;	607.4;	03-OCT-2004	22:41:25;	Dark	;	39.5;	135;	Bet Hyi	;	2.82;	5800;occ;	79;	0;	13568
9;	747.6;	03-OCT-2004	22:43:45;	Dark	;	39.5;	143;	Alp Hyi	;	2.86;	7200;occ;	79;	0;	13568
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13;	1426.9;	03-OCT-2004	22:55:04;	Dark	;	44.5;	18;	24Alp PsA	;	1.17;	9700;occ;	89;	0;	13568
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15;	1786.2;	03-OCT-2004	23:01:04;	Bright;	177.0;	165;	34Gam Eri	;	2.95;	3200;occ;	354;	0;	13568	
16;	2168.3;	03-OCT-2004	23:07:26;	Bright;	39.5;	90;	54Alp Peg	;	2.49;	11000;occ;	79;	0;	13568	
17;	2384.6;	03-OCT-2004	23:11:02;	Bright;	39.0;	93;	53Bet Peg	;	2.52;	3100;occ;	78;	0;	13568	
18;	2627.5;	03-OCT-2004	23:15:05;	Bright;	46.0;	53;	43Bet And	;	2.05;	3300;occ;	92;	0;	13568	
19;	2804.7;	03-OCT-2004	23:18:02;	Bright;	57.0;	173;	4Bet Tri	;	3.00;	8900;occ;	114;	0;	13568	
20;	3224.8;	03-OCT-2004	23:25:02;	Bright;	48.5;	160;	23Gam Per	;	2.93;	4700;occ;	97;	0;	13568	
21;	3426.1;	03-OCT-2004	23:28:24;	Bright;	34.0;	49;	1Alp UMi	;	1.99;	6300;occ;	68;	0;	13568	
22;	3562.2;	03-OCT-2004	23:30:40;	Bright;	40.5;	60;	7Bet UMi	;	2.08;	3950;occ;	81;	0;	13568	
23;	3908.1;	03-OCT-2004	23:36:26;	Bright;	39.0;	36;	50Alp UMa	;	1.80;	6300;occ;	78;	0;	13568	
24;	3998.3;	03-OCT-2004	23:37:56;	Bright;	40.0;	82;	48Bet UMa	;	2.37;	10600;occ;	80;	0;	13568	
25;	4193.8;	03-OCT-2004	23:41:11;	Bright;	36.0;	174;	52Psi UMa	;	3.00;	4400;occ;	72;	0;	13568	
26;	4314.8;	03-OCT-2004	23:43:12;	Bright;	102.0;	107;	37The Aur	;	2.65;	11000;occ;	204;	0;	13568	
27;	4519.3;	03-OCT-2004	23:46:37;	Bright;	64.5;	24;	66Alp Gem	;	1.58;	10200;occ;	129;	0;	13568	
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8;	747.6;	04-OCT-2004	00:24:21;	Dark	;	41.0;	143;	Alp Hyi	;	2.86;	7200;occ;	82;	0;	13569
9;	834.6;	04-OCT-2004	00:25:48;	Dark	;	48.0;	9;	Alp Eri	;	0.45;	24000;occ;	96;	0;	13569
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11;	1152.1;	04-OCT-2004	00:31:06;	Dark	;	44.0;	84;	Alp Phe	;	2.40;	4500;occ;	88;	0;	13569
12;	1427.1;	04-OCT-2004	00:35:41;	Dark	;	43.0;	18;	24Alp PsA	;	1.17;	9700;occ;	86;	0;	13569
13;	1559.4;	04-OCT-2004	00:37:53;	Dark	;	53.5;	52;	16Bet Cet	;	2.04;	4500;occ;	107;	0;	13569
14;	1783.5;	04-OCT-2004	00:41:37;	Bright;	177.0;	165;	34Gam Eri	;	2.95;	3200;occ;	354;	0;	13569	
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16;	2384.7;	04-OCT-2004	00:51:38;	Bright;	39.5;	93;	53Bet Peg	;	2.52;	3100;occ;	79;	0;	13569	
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27; 755.7; 05-OCT-2004 16:38:52; Dark ; 41.5; 143; Alp Hyi ; 2.86; 7200;occ; 83; 0;13593
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23; -170.5; 05-OCT-2004 18:04:02; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0;13593
24; 13.8; 05-OCT-2004 18:07:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13594
25; 224.6; 05-OCT-2004 18:10:37; Dark ; 51.0; 2; Alp Car ; -0.74; 7000;occ; 102; 0;13594
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19; 119.2; 09-OCT-2004 11:00:36; Dark ; 32.5; 0; ; 0.00; 0;occ; 65; 0;13647

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23; 493.1; 09-OCT-2004 12:47:26; Dark ; 69.5; 108; Alp Col ; 2.65; 15200;occ; 139; 0;13648
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23;-126.5; 09-OCT-2004 14:17:42; Dark ; 46.0; 70; Zet Pup ; 2.25; 39000;occ; 92; 0;13648
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16; -1217.7; 13-OCT-2004 10:12:28; Bright; 42.0; 22; 32Alp Leo ; 1.36; 15200;occ; 84; 0;13703
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21; 132.5; 13-OCT-2004 10:34:58; Dark ; 40.0; 29; Bet Car ; 1.67; 10200;occ; 80; 0;13704
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23; 517.9; 13-OCT-2004 10:41:24; Dark ; 153.0; 47; 2Bet CMA ; 1.98; 28000;occ; 306; 0;13704
24; 793.6; 13-OCT-2004 10:45:59; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13704
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27; 1184.0; 13-OCT-2004 10:52:30; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;13704
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21; 139.2; 13-OCT-2004 12:15:41; Dark ; 70.5; 23; 21Eps CMa ; 1.50; 26000;occ; 141; 0;13705
22; 272.4; 13-OCT-2004 12:17:54; Dark ; 132.0; 1; 9Alp CMa ; -1.44; 11000;occ; 264; 0;13705
23; 578.0; 13-OCT-2004 12:23:00; Dark ; 70.0; 108; Alp Col ; 2.65; 15200;occ; 140; 0;13705
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27; 1183.9; 13-OCT-2004 12:33:06; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;13705
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22; 140.9; 13-OCT-2004 13:56:18; Dark ; 73.0; 23; 21Eps CMa ; 1.50; 26000;occ; 146; 0;13706
23; 276.4; 13-OCT-2004 13:58:34; Dark ; 131.0; 1; 9Alp CMa ; -1.44; 11000;occ; 262; 0;13706
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4; -114.2; 13-OCT-2004 22:15:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13710
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6; 133.4; 13-OCT-2004 22:19:11; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;13711
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11; 1030.6; 13-OCT-2004 22:34:08; Dark ; 47.0; 157; The1Eri ; 2.91; 9300;occ; 94; 0;13711
12; 1185.5; 13-OCT-2004 22:36:43; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;13711
13; 1581.1; 13-OCT-2004 22:43:19; Dark ; 47.0; 52; 16Bet Cet ; 2.04; 4500;occ; 94; 0;13711
14; 2163.2; 13-OCT-2004 22:53:01; Bright; 39.0; 140; 88Gam Peg ; 2.83; 26000;occ; 78; 0;13711
15; 2402.0; 13-OCT-2004 22:56:59; Bright; 38.5; 58; 21Alp And ; 2.07; 11000;occ; 77; 0;13711
16; 2560.5; 13-OCT-2004 22:59:38; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;13711
17; 2668.6; 13-OCT-2004 23:01:26; Bright; 47.0; 173; 4Bet Tri ; 3.00; 8900;occ; 94; 0;13711
18; 2777.4; 13-OCT-2004 23:03:15; Bright; 48.5; 73; 57Gam1And ; 2.26; 13100;occ; 97; 0;13711
19; 2885.9; 13-OCT-2004 23:05:03; Bright; 41.0; 68; 18Alp Cas ; 2.22; 4500;occ; 82; 0;13711
20; 2970.4; 13-OCT-2004 23:06:28; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;13711
21; 3098.9; 13-OCT-2004 23:08:36; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;13711
22; 3236.7; 13-OCT-2004 23:10:54; Bright; 70.0; 149; 45Eps Per ; 2.89; 30000;occ; 140; 0;13711
23; 3421.5; 13-OCT-2004 23:13:59; Bright; 39.0; 49; 1Alp UMi ; 1.99; 6300;occ; 78; 0;13711
24; 3598.5; 13-OCT-2004 23:16:56; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;13711
25; 3916.1; 13-OCT-2004 23:22:14; Bright; 40.5; 36; 50Alp UMa ; 1.80; 6300;occ; 81; 0;13711
26; 4007.4; 13-OCT-2004 23:23:45; Bright; 53.0; 82; 48Bet UMa ; 2.37; 10600;occ; 106; 0;13711
27; 4209.6; 13-OCT-2004 23:27:07; Bright; 40.0; 174; 52Psi UMa ; 3.00; 4400;occ; 80; 0;13711
28; 4668.4; 13-OCT-2004 23:34:46; Bright; 94.0; 17; 78Bet Gem ; 1.16; 4500;occ; 188; 0;13711
29; 4821.1; 13-OCT-2004 23:37:19; Bright; 57.0; 22; 32Alp Leo ; 1.36; 15200;occ; 114; 0;13711
30; 5254.4; 13-OCT-2004 23:44:32; Dark ; 55.0; 48; 30Alp Hya ; 1.98; 4100;occ; 110; 0;13711
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20041013_234437_000060522031_00130_13711_0874.N1
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2; -564.1; 13-OCT-2004 23:48:09; Dark ; 146.5; 8; 10Alp CMi ; 0.40; 6500;occ; 293; 0;13711
3; -248.9; 13-OCT-2004 23:53:24; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;13711
4; -113.6; 13-OCT-2004 23:55:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13711
5; -18.3; 13-OCT-2004 23:57:15; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;13711
6; 133.6; 13-OCT-2004 23:59:47; Dark ; 41.5; 29; Bet Car ; 1.67; 10200;occ; 83; 0;13712
7; 295.4; 14-OCT-2004 00:02:29; Dark ; 133.0; 1; 9Alp CMA ; -1.44; 11000;occ; 266; 0;13712
8; 588.3; 14-OCT-2004 00:07:22; Dark ; 70.5; 108; Alp Col ; 2.65; 15200;occ; 141; 0;13712
9; 795.5; 14-OCT-2004 00:10:49; Dark ; 43.0; 143; Alp Hyi ; 2.86; 7200;occ; 86; 0;13712
10; 882.4; 14-OCT-2004 00:12:16; Dark ; 40.5; 9; Alp Eri ; 0.45; 24000;occ; 81; 0;13712
11; 1031.0; 14-OCT-2004 00:14:44; Dark ; 46.5; 157; The1Eri ; 2.91; 9300;occ; 93; 0;13712
12; 1185.1; 14-OCT-2004 00:17:18; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;13712
13; 1579.6; 14-OCT-2004 00:23:53; Dark ; 50.5; 52; 16Bet Cet ; 2.04; 4500;occ; 101; 0;13712
14; 2163.1; 14-OCT-2004 00:33:36; Bright; 39.5; 140; 88Gam Peg ; 2.83; 26000;occ; 79; 0;13712
15; 2402.4; 14-OCT-2004 00:37:36; Bright; 40.0; 58; 21Alp And ; 2.07; 11000;occ; 80; 0;13712
16; 2559.8; 14-OCT-2004 00:40:13; Bright; 45.0; 53; 43Bet And ; 2.05; 3300;occ; 90; 0;13712
17; 2667.8; 14-OCT-2004 00:42:01; Bright; 48.5; 173; 4Bet Tri ; 3.00; 8900;occ; 97; 0;13712
18; 2776.8; 14-OCT-2004 00:43:50; Bright; 46.5; 73; 57Gam1And ; 2.26; 13100;occ; 93; 0;13712
19; 2887.4; 14-OCT-2004 00:45:41; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;13712
20; 2970.6; 14-OCT-2004 00:47:04; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;13712
21; 3098.4; 14-OCT-2004 00:49:12; Bright; 47.5; 160; 23Gam Per ; 2.93; 4700;occ; 95; 0;13712
22; 3235.1; 14-OCT-2004 00:51:28; Bright; 72.5; 149; 45Eps Per ; 2.89; 30000;occ; 145; 0;13712
23; 3423.1; 14-OCT-2004 00:54:36; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;13712
24; 3598.7; 14-OCT-2004 00:57:32; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;13712
25; 3916.9; 14-OCT-2004 01:02:50; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;13712
26; 4009.8; 14-OCT-2004 01:04:23; Bright; 38.5; 82; 48Bet UMa ; 2.37; 10600;occ; 77; 0;13712
27; 4211.5; 14-OCT-2004 01:07:45; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;13712
28; 4669.1; 14-OCT-2004 01:15:22; Bright; 94.0; 17; 78Bet Gem ; 1.16; 4500;occ; 188; 0;13712
29; 4821.5; 14-OCT-2004 01:17:55; Bright; 42.5; 22; 32Alp Leo ; 1.36; 15200;occ; 85; 0;13712
30; 5257.4; 14-OCT-2004 01:25:11; Dark ; 19.0; 48; 30Alp Hya ; 1.98; 4100;occ; 38; 0;13712
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2; -4851.4; 13-OCT-2004 17:34:54; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;13708
3; -4455.2; 13-OCT-2004 17:41:30; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;13708

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5;-3633.4; 13-OCT-2004 17:55:12; Bright; 37.0; 58; 21Alp And ; 2.07; 11000;occ; 74; 0;13708
6;-3474.3; 13-OCT-2004 17:57:51; Bright; 42.5; 53; 43Bet And ; 2.05; 3300;occ; 85; 0;13708
7;-3365.5; 13-OCT-2004 17:59:40; Bright; 49.0; 173; 4Bet Tri ; 3.00; 8900;occ; 98; 0;13708
8;-3256.8; 13-OCT-2004 18:01:29; Bright; 48.0; 73; 57Gam1And ; 2.26; 13100;occ; 96; 0;13708
9;-3146.9; 13-OCT-2004 18:03:19; Bright; 41.5; 68; 18Alp Cas ; 2.22; 4500;occ; 83; 0;13708
10;-3064.7; 13-OCT-2004 18:04:41; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;13708
11;-2934.6; 13-OCT-2004 18:06:51; Bright; 48.5; 160; 23Gam Per ; 2.93; 4700;occ; 97; 0;13708
12;-2793.9; 13-OCT-2004 18:09:12; Bright; 72.0; 149; 45Eps Per ; 2.89; 30000;occ; 144; 0;13708
13;-2612.0; 13-OCT-2004 18:12:14; Bright; 39.0; 49; 1Alp UMi ; 1.99; 6300;occ; 78; 0;13708
14;-2438.7; 13-OCT-2004 18:15:07; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;13708
15;-2119.7; 13-OCT-2004 18:20:26; Bright; 37.5; 36; 50Alp UMA ; 1.80; 6300;occ; 75; 0;13708
16;-2026.1; 13-OCT-2004 18:21:59; Bright; 36.5; 82; 48Bet UMA ; 2.37; 10600;occ; 73; 0;13708
17;-1824.1; 13-OCT-2004 18:25:21; Bright; 37.5; 174; 52Psi UMA ; 3.00; 4400;occ; 75; 0;13708
18;-1369.2; 13-OCT-2004 18:32:56; Bright; 91.5; 17; 78Bet Gem ; 1.16; 4500;occ; 183; 0;13708
19;-1215.8; 13-OCT-2004 18:35:30; Bright; 56.0; 22; 32Alp Leo ; 1.36; 15200;occ; 112; 0;13708
20; -781.7; 13-OCT-2004 18:42:44; Dark ; 55.0; 48; 30Alp Hya ; 1.98; 4100;occ; 110; 0;13708
21; -573.6; 13-OCT-2004 18:46:12; Dark ; 129.0; 8; 10Alp CMi ; 0.40; 6500;occ; 258; 0;13708
22; -249.3; 13-OCT-2004 18:51:36; Dark ; 41.5; 113; Mu Vel ; 2.69; 5000;occ; 83; 0;13708
23; -115.4; 13-OCT-2004 18:53:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13708
24; -17.3; 13-OCT-2004 18:55:28; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;13708
25; 146.6; 13-OCT-2004 18:58:12; Dark ; 65.0; 23; 21Eps CMa ; 1.50; 26000;occ; 130; 0;13709
26; 285.8; 13-OCT-2004 19:00:31; Dark ; 170.5; 1; 9Alp CMa ; -1.44; 11000;occ; 341; 0;13709
27; 583.9; 13-OCT-2004 19:05:29; Dark ; 71.5; 108; Alp Col ; 2.65; 15200;occ; 143; 0;13709
28; 794.5; 13-OCT-2004 19:09:00; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;13709
29; 881.8; 13-OCT-2004 19:10:27; Dark ; 23.0; 9; Alp Eri ; 0.45; 24000;occ; 46; 0;13709
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3;-5006.5; 13-OCT-2004 19:12:55; Dark ; 48.0; 157; The1Eri ; 2.91; 9300;occ; 96; 0;13709
4;-4851.5; 13-OCT-2004 19:15:30; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;13709
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6;-3872.5; 13-OCT-2004 19:31:49; Bright; 38.5; 140; 88Gam Peg ; 2.83; 26000;occ; 77; 0;13709
7;-3633.6; 13-OCT-2004 19:35:48; Bright; 38.0; 58; 21Alp And ; 2.07; 11000;occ; 76; 0;13709
8;-3475.0; 13-OCT-2004 19:38:27; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;13709
9;-3366.0; 13-OCT-2004 19:40:16; Bright; 48.5; 173; 4Bet Tri ; 3.00; 8900;occ; 97; 0;13709
10;-3257.4; 13-OCT-2004 19:42:04; Bright; 47.0; 73; 57Gam1And ; 2.26; 13100;occ; 94; 0;13709
11;-3147.7; 13-OCT-2004 19:43:54; Bright; 41.0; 68; 18Alp Cas ; 2.22; 4500;occ; 82; 0;13709
12;-3065.4; 13-OCT-2004 19:45:16; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;13709
13;-2935.2; 13-OCT-2004 19:47:26; Bright; 46.0; 160; 23Gam Per ; 2.93; 4700;occ; 92; 0;13709
14;-2795.5; 13-OCT-2004 19:49:46; Bright; 72.5; 149; 45Eps Per ; 2.89; 30000;occ; 145; 0;13709
15;-2612.6; 13-OCT-2004 19:52:49; Bright; 39.5; 49; 1Alp UMi ; 1.99; 6300;occ; 79; 0;13709
16;-2438.6; 13-OCT-2004 19:55:43; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;13709
17;-2121.5; 13-OCT-2004 20:01:00; Bright; 43.5; 36; 50Alp UMA ; 1.80; 6300;occ; 87; 0;13709
18;-2026.6; 13-OCT-2004 20:02:35; Bright; 40.0; 82; 48Bet UMA ; 2.37; 10600;occ; 80; 0;13709
19;-1824.5; 13-OCT-2004 20:05:57; Bright; 36.5; 174; 52Psi UMA ; 3.00; 4400;occ; 73; 0;13709
20;-1368.7; 13-OCT-2004 20:13:33; Bright; 92.0; 17; 78Bet Gem ; 1.16; 4500;occ; 184; 0;13709
21;-1215.8; 13-OCT-2004 20:16:06; Bright; 43.0; 22; 32Alp Leo ; 1.36; 15200;occ; 86; 0;13709
22; -781.2; 13-OCT-2004 20:23:20; Dark ; 54.5; 48; 30Alp Hya ; 1.98; 4100;occ; 109; 0;13709
23; -569.9; 13-OCT-2004 20:26:52; Dark ; 130.0; 8; 10Alp CMi ; 0.40; 6500;occ; 260; 0;13709
24; -249.1; 13-OCT-2004 20:32:12; Dark ; 40.0; 113; Mu Vel ; 2.69; 5000;occ; 80; 0;13709
25; -114.8; 13-OCT-2004 20:34:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13709
26; -17.4; 13-OCT-2004 20:36:04; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;13709
27; 131.4; 13-OCT-2004 20:38:33; Dark ; 48.0; 29; Bet Car ; 1.67; 10200;occ; 96; 0;13710
28; 288.9; 13-OCT-2004 20:41:10; Dark ; 148.5; 1; 9Alp CMa ; -1.44; 11000;occ; 297; 0;13710
29; 587.7; 13-OCT-2004 20:46:09; Dark ; 67.5; 108; Alp Col ; 2.65; 15200;occ; 135; 0;13710
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31; 881.4; 13-OCT-2004 20:51:03; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;13710
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2; -561.7; 14-OCT-2004 01:28:47; Dark ; 129.5; 8; 10Alp CMi ; 0.40; 6500;occ; 259; 0;13712
3; -248.4; 14-OCT-2004 01:34:01; Dark ; 39.0; 113; Mu Vel ; 2.69; 5000;occ; 78; 0;13712
4; -113.0; 14-OCT-2004 01:36:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13712
5; -19.4; 14-OCT-2004 01:37:50; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;13712
6; 134.5; 14-OCT-2004 01:40:24; Dark ; 42.0; 29; Bet Car ; 1.67; 10200;occ; 84; 0;13713
7; 298.8; 14-OCT-2004 01:43:08; Dark ; 143.0; 1; 9Alp CMa ; -1.44; 11000;occ; 286; 0;13713
8; 591.4; 14-OCT-2004 01:48:01; Dark ; 67.5; 108; Alp Col ; 2.65; 15200;occ; 135; 0;13713
9; 796.2; 14-OCT-2004 01:51:25; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;13713

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10; 882.4; 14-OCT-2004 01:52:52; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;13713
11; 1029.8; 14-OCT-2004 01:55:19; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;13713
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13; 1579.7; 14-OCT-2004 02:04:29; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;13713
14; 2161.5; 14-OCT-2004 02:14:11; Bright; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;13713
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17; 2666.7; 14-OCT-2004 02:22:36; Bright; 47.0; 173; 4Bet Tri ; 3.00; 8900;occ; 94; 0;13713
18; 2776.2; 14-OCT-2004 02:24:25; Bright; 47.5; 73; 57Gam1And ; 2.26; 13100;occ; 95; 0;13713
19; 2885.6; 14-OCT-2004 02:26:15; Bright; 40.5; 68; 18Alp Cas ; 2.22; 4500;occ; 81; 0;13713
20; 2969.4; 14-OCT-2004 02:27:39; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;13713
21; 3097.8; 14-OCT-2004 02:29:47; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;13713
22; 3233.4; 14-OCT-2004 02:32:03; Bright; 70.5; 149; 45Eps Per ; 2.89; 30000;occ; 141; 0;13713
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5;-1366.3; 14-OCT-2004 02:55:59; Bright; 84.5; 17; 78Bet Gem ; 1.16; 4500;occ; 169; 0;13713
6;-1214.4; 14-OCT-2004 02:58:31; Bright; 43.0; 22; 32Alp Leo ; 1.36; 15200;occ; 86; 0;13713
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12; 134.3; 14-OCT-2004 03:20:59; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;13714
13; 302.0; 14-OCT-2004 03:23:47; Dark ; 147.0; 1; 9Alp CMa ; -1.44; 11000;occ; 294; 0;13714
14; 593.1; 14-OCT-2004 03:28:38; Dark ; 68.5; 108; Alp Col ; 2.65; 15200;occ; 137; 0;13714
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16; 882.8; 14-OCT-2004 03:33:28; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;13714
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18; 1185.6; 14-OCT-2004 03:38:31; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 0;13714
19; 1582.3; 14-OCT-2004 03:45:07; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;13714
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23; 2665.7; 14-OCT-2004 04:03:11; Bright; 50.0; 173; 4Bet Tri ; 3.00; 8900;occ; 100; 0;13714
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25; 2887.8; 14-OCT-2004 04:06:53; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;13714
26; 2969.9; 14-OCT-2004 04:08:15; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;13714
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28; 3231.2; 14-OCT-2004 04:12:36; Bright; 70.0; 149; 45Eps Per ; 2.89; 30000;occ; 140; 0;13714
29; 3424.0; 14-OCT-2004 04:15:49; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;13714
30; 3598.8; 14-OCT-2004 04:18:44; Bright; 29.0; 60; 7Bet UMi ; 2.08; 3950;occ; 58; 0;13714
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20041014_041844_000060752031_00133_13714_0877.N1
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2;-2118.9; 14-OCT-2004 04:24:02; Bright; 39.0; 36; 50Alp UMa ; 1.80; 6300;occ; 78; 0;13714
3;-2026.5; 14-OCT-2004 04:25:35; Bright; 38.0; 82; 48Bet UMa ; 2.37; 10600;occ; 76; 0;13714
4;-1824.2; 14-OCT-2004 04:28:57; Bright; 38.5; 174; 52Psi UMa ; 3.00; 4400;occ; 77; 0;13714
5;-1366.0; 14-OCT-2004 04:36:35; Bright; 91.5; 17; 78Bet Gem ; 1.16; 4500;occ; 183; 0;13714
6;-1214.2; 14-OCT-2004 04:39:07; Bright; 42.5; 22; 32Alp Leo ; 1.36; 15200;occ; 85; 0;13714
7; -779.6; 14-OCT-2004 04:46:22; Dark ; 59.5; 48; 30Alp Hya ; 1.98; 4100;occ; 119; 0;13714
8; -556.8; 14-OCT-2004 04:50:04; Dark ; 167.0; 8; 10Alp CMi ; 0.40; 6500;occ; 334; 0;13714
9; -248.6; 14-OCT-2004 04:55:13; Dark ; 42.5; 113; Mu Vel ; 2.69; 5000;occ; 85; 0;13714
10; -112.0; 14-OCT-2004 04:57:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13714
11; -14.9; 14-OCT-2004 04:59:06; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;13714
12; 135.0; 14-OCT-2004 05:01:36; Dark ; 40.0; 29; Bet Car ; 1.67; 10200;occ; 80; 0;13715
13; 305.0; 14-OCT-2004 05:04:26; Dark ; 154.5; 1; 9Alp CMa ; -1.44; 11000;occ; 309; 0;13715
14; 592.6; 14-OCT-2004 05:09:14; Dark ; 69.5; 108; Alp Col ; 2.65; 15200;occ; 139; 0;13715
15; 796.6; 14-OCT-2004 05:12:38; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13715
16; 883.5; 14-OCT-2004 05:14:05; Dark ; 47.0; 9; Alp Eri ; 0.45; 24000;occ; 94; 0;13715
17; 1033.3; 14-OCT-2004 05:16:34; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;13715
18; 1185.6; 14-OCT-2004 05:19:07; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;13715
19; 1583.1; 14-OCT-2004 05:25:44; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;13715
20; 2164.5; 14-OCT-2004 05:35:26; Bright; 38.5; 140; 88Gam Peg ; 2.83; 26000;occ; 77; 0;13715
21; 2402.7; 14-OCT-2004 05:39:24; Bright; 37.5; 58; 21Alp And ; 2.07; 11000;occ; 75; 0;13715
22; 2559.5; 14-OCT-2004 05:42:01; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;13715

```

```

23; 2664.9; 14-OCT-2004 05:43:46; Bright; 50.0; 173; 4Bet Tri ; 3.00; 8900;occ; 100; 0;13715
24; 2774.9; 14-OCT-2004 05:45:36; Bright; 49.0; 73; 57Gam1And ; 2.26; 13100;occ; 98; 0;13715
25; 2888.0; 14-OCT-2004 05:47:29; Bright; 40.5; 68; 18Alp Cas ; 2.22; 4500;occ; 81; 0;13715
26; 2970.0; 14-OCT-2004 05:48:51; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;13715
27; 3095.7; 14-OCT-2004 05:50:57; Bright; 47.5; 160; 23Gam Per ; 2.93; 4700;occ; 95; 0;13715
28; 3229.6; 14-OCT-2004 05:53:11; Bright; 70.5; 149; 45Eps Per ; 2.89; 30000;occ; 141; 0;13715
29; 3424.0; 14-OCT-2004 05:56:25; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;13715
30; 3598.9; 14-OCT-2004 05:59:20; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;13715
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2; -2118.8; 14-OCT-2004 06:04:38; Bright; 39.5; 36; 50Alp UMa ; 1.80; 6300;occ; 79; 0;13715
3; -2028.3; 14-OCT-2004 06:06:09; Bright; 40.5; 82; 48Bet UMa ; 2.37; 10600;occ; 81; 0;13715
4; -1824.1; 14-OCT-2004 06:09:33; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;13715
5; -1366.0; 14-OCT-2004 06:17:11; Bright; 95.0; 17; 78Bet Gem ; 1.16; 4500;occ; 190; 0;13715
6; -777.2; 14-OCT-2004 06:27:00; Dark ; 57.5; 48; 30Alp Hya ; 1.98; 4100;occ; 115; 0;13715
7; -553.8; 14-OCT-2004 06:30:43; Dark ; 160.0; 8; 10Alp CMi ; 0.40; 6500;occ; 320; 0;13715
8; -247.7; 14-OCT-2004 06:35:49; Dark ; 41.0; 113; Mu Vel ; 2.69; 5000;occ; 82; 0;13715
9; -111.4; 14-OCT-2004 06:38:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13715
10; -14.1; 14-OCT-2004 06:39:43; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;13715
11; 135.6; 14-OCT-2004 06:42:13; Dark ; 42.0; 29; Bet Car ; 1.67; 10200;occ; 84; 0;13716
12; 307.9; 14-OCT-2004 06:45:05; Dark ; 129.0; 1; 9Alp CMa ; -1.44; 11000;occ; 258; 0;13716
13; 594.0; 14-OCT-2004 06:49:51; Dark ; 72.5; 108; Alp Col ; 2.65; 15200;occ; 145; 0;13716
14; 797.3; 14-OCT-2004 06:53:14; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13716
15; 884.1; 14-OCT-2004 06:54:41; Dark ; 52.0; 9; Alp Eri ; 0.45; 24000;occ; 104; 0;13716
16; 1034.4; 14-OCT-2004 06:57:12; Dark ; 46.5; 157; The1Eri ; 2.91; 9300;occ; 93; 0;13716
17; 1186.3; 14-OCT-2004 06:59:43; Dark ; 49.5; 84; Alp Phe ; 2.40; 4500;occ; 99; 0;13716
18; 1583.4; 14-OCT-2004 07:06:21; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;13716
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2; -3633.0; 14-OCT-2004 07:20:00; Bright; 37.5; 58; 21Alp And ; 2.07; 11000;occ; 75; 0;13716
3; -3476.5; 14-OCT-2004 07:22:37; Bright; 45.0; 53; 43Bet And ; 2.05; 3300;occ; 90; 0;13716
4; -3371.5; 14-OCT-2004 07:24:22; Bright; 47.5; 173; 4Bet Tri ; 3.00; 8900;occ; 95; 0;13716
5; -3261.3; 14-OCT-2004 07:26:12; Bright; 48.5; 73; 57Gam1And ; 2.26; 13100;occ; 97; 0;13716
6; -3147.7; 14-OCT-2004 07:28:05; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;13716
7; -3065.7; 14-OCT-2004 07:29:27; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;13716
8; -2940.9; 14-OCT-2004 07:31:32; Bright; 48.0; 160; 23Gam Per ; 2.93; 4700;occ; 96; 0;13716
9; -2808.4; 14-OCT-2004 07:33:45; Bright; 71.5; 149; 45Eps Per ; 2.89; 30000;occ; 143; 0;13716
10; -2611.4; 14-OCT-2004 07:37:02; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;13716
11; -2436.1; 14-OCT-2004 07:39:57; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;13716
12; -2118.1; 14-OCT-2004 07:45:15; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;13716
13; -2025.7; 14-OCT-2004 07:46:47; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;13716
14; -1823.2; 14-OCT-2004 07:50:10; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0;13716
15; -1365.5; 14-OCT-2004 07:57:48; Bright; 96.5; 17; 78Bet Gem ; 1.16; 4500;occ; 193; 0;13716
16; -775.9; 14-OCT-2004 08:07:37; Dark ; 57.5; 48; 30Alp Hya ; 1.98; 4100;occ; 115; 0;13716
17; -551.1; 14-OCT-2004 08:11:22; Dark ; 141.0; 8; 10Alp CMi ; 0.40; 6500;occ; 282; 0;13716
18; -248.1; 14-OCT-2004 08:16:25; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;13716
19; -110.9; 14-OCT-2004 08:18:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13716
20; -13.0; 14-OCT-2004 08:20:20; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;13716
21; 136.2; 14-OCT-2004 08:22:49; Dark ; 47.5; 29; Bet Car ; 1.67; 10200;occ; 95; 0;13717
22; 310.7; 14-OCT-2004 08:25:44; Dark ; 171.0; 1; 9Alp CMa ; -1.44; 11000;occ; 342; 0;13717
23; 597.3; 14-OCT-2004 08:30:30; Dark ; 70.5; 108; Alp Col ; 2.65; 15200;occ; 141; 0;13717
24; 797.7; 14-OCT-2004 08:33:51; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13717
25; 884.4; 14-OCT-2004 08:35:17; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;13717
26; 1034.9; 14-OCT-2004 08:37:48; Dark ; 47.5; 157; The1Eri ; 2.91; 9300;occ; 95; 0;13717
27; 1186.5; 14-OCT-2004 08:40:20; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;13717
28; 1583.7; 14-OCT-2004 08:46:57; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;13717
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1; 892.9; 14-OCT-2004 20:19:38; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 14;13724
2; 1037.2; 14-OCT-2004 20:22:02; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;13724
3; 1185.1; 14-OCT-2004 20:24:30; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;13724
4; 1583.0; 14-OCT-2004 20:31:08; Dark ; 49.5; 52; 16Bet Cet ; 2.04; 4500;occ; 99; 0;13724
5; 2163.9; 14-OCT-2004 20:40:49; Bright; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;13724
6; 2402.3; 14-OCT-2004 20:44:47; Bright; 38.5; 58; 21Alp And ; 2.07; 11000;occ; 77; 0;13724
7; 2555.7; 14-OCT-2004 20:47:20; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;13724
8; 2658.2; 14-OCT-2004 20:49:03; Bright; 47.0; 173; 4Bet Tri ; 3.00; 8900;occ; 94; 0;13724
9; 2768.0; 14-OCT-2004 20:50:53; Bright; 48.5; 73; 57Gam1And ; 2.26; 13100;occ; 97; 0;13724

```

```

10; 2886.2; 14-OCT-2004 20:52:51; Bright; 38.5; 68; 18Alp Cas ; 2.22; 4500;occ; 77; 0;13724
11; 2968.0; 14-OCT-2004 20:54:13; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;13724
12; 3088.2; 14-OCT-2004 20:56:13; Bright; 49.0; 160; 23Gam Per ; 2.93; 4700;occ; 98; 0;13724
13; 3213.8; 14-OCT-2004 20:58:18; Bright; 68.5; 149; 45Eps Per ; 2.89; 30000;occ; 137; 0;13724
14; 3423.8; 14-OCT-2004 21:01:48; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;13724
15; 3602.1; 14-OCT-2004 21:04:47; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;13724
16; 3917.3; 14-OCT-2004 21:10:02; Bright; 39.5; 36; 50Alp UMa ; 1.80; 6300;occ; 79; 0;13724
17; 4011.0; 14-OCT-2004 21:11:36; Bright; 37.0; 82; 48Bet UMa ; 2.37; 10600;occ; 74; 0;13724
18; 4213.3; 14-OCT-2004 21:14:58; Bright; 38.0; 174; 52Psi UMa ; 3.00; 4400;occ; 76; 0;13724
19; 4674.5; 14-OCT-2004 21:22:39; Bright; 97.5; 17; 78Bet Gem ; 1.16; 4500;occ; 195; 0;13724
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20041014_213233_000060842031_00143_13724_0879.N1
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 2; -528.8; 14-OCT-2004 21:36:32; Dark ; 143.5; 8; 10Alp CMi ; 0.40; 6500;occ; 287; 0;13724
 3; -246.3; 14-OCT-2004 21:41:14; Dark ; 37.0; 113; Mu Vel ; 2.69; 5000;occ; 74; 0;13724
 4; -106.4; 14-OCT-2004 21:43:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13724
 5; -7.5; 14-OCT-2004 21:45:13; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;13724
 6; 137.3; 14-OCT-2004 21:47:38; Dark ; 42.0; 29; Bet Car ; 1.67; 10200;occ; 84; 0;13725
 7; 337.7; 14-OCT-2004 21:50:58; Dark ; 185.0; 1; 9Alp CMa ; -1.44; 11000;occ; 370; 0;13725
 8; 608.9; 14-OCT-2004 21:55:29; Dark ; 69.0; 108; Alp Col ; 2.65; 15200;occ; 138; 0;13725
 9; 799.3; 14-OCT-2004 21:58:40; Dark ; 41.5; 143; Alp Hyi ; 2.86; 7200;occ; 83; 0;13725
10; 886.2; 14-OCT-2004 22:00:07; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;13725
11; 1035.9; 14-OCT-2004 22:02:37; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;13725
12; 1185.3; 14-OCT-2004 22:05:06; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;13725
13; 1583.8; 14-OCT-2004 22:11:44; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;13725
14; 2163.3; 14-OCT-2004 22:21:24; Bright; 39.5; 140; 88Gam Peg ; 2.83; 26000;occ; 79; 0;13725
15; 2402.2; 14-OCT-2004 22:25:23; Bright; 38.5; 58; 21Alp And ; 2.07; 11000;occ; 77; 0;13725
16; 2555.3; 14-OCT-2004 22:27:56; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;13725
17; 2657.4; 14-OCT-2004 22:29:38; Bright; 70.0; 173; 4Bet Tri ; 3.00; 8900;occ; 140; 0;13725
18; 2767.3; 14-OCT-2004 22:31:28; Bright; 46.5; 73; 57Gam1And ; 2.26; 13100;occ; 93; 0;13725
19; 2886.0; 14-OCT-2004 22:33:27; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;13725
20; 2967.7; 14-OCT-2004 22:34:48; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;13725
21; 3087.4; 14-OCT-2004 22:36:48; Bright; 48.5; 160; 23Gam Per ; 2.93; 4700;occ; 97; 0;13725
22; 3212.1; 14-OCT-2004 22:38:53; Bright; 70.0; 149; 45Eps Per ; 2.89; 30000;occ; 140; 0;13725
23; 3424.2; 14-OCT-2004 22:42:25; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;13725
24; 3602.3; 14-OCT-2004 22:45:23; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;13725
25; 3917.7; 14-OCT-2004 22:50:38; Bright; 39.5; 36; 50Alp UMa ; 1.80; 6300;occ; 79; 0;13725
26; 4011.2; 14-OCT-2004 22:52:12; Bright; 36.5; 82; 48Bet UMa ; 2.37; 10600;occ; 73; 0;13725
27; 4213.4; 14-OCT-2004 22:55:34; Bright; 38.5; 174; 52Psi UMa ; 3.00; 4400;occ; 77; 0;13725
28; 4675.2; 14-OCT-2004 23:03:16; Bright; 103.5; 17; 78Bet Gem ; 1.16; 4500;occ; 207; 0;13725
29; 5265.5; 14-OCT-2004 23:13:06; Dark ; 52.0; 48; 30Alp Hya ; 1.98; 4100;occ; 104; 0;13725
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20041014_231710_000058392031_00144_13725_0880.N1
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 2; -246.6; 14-OCT-2004 23:21:50; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;13725
 3; -105.8; 14-OCT-2004 23:24:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13725
 4; 138.0; 14-OCT-2004 23:28:15; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;13726
 5; 340.8; 14-OCT-2004 23:31:37; Dark ; 165.0; 1; 9Alp CMa ; -1.44; 11000;occ; 330; 0;13726
 6; 610.9; 14-OCT-2004 23:36:07; Dark ; 69.5; 108; Alp Col ; 2.65; 15200;occ; 139; 0;13726
 7; 800.2; 14-OCT-2004 23:39:17; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;13726
 8; 886.1; 14-OCT-2004 23:40:43; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;13726
 9; 1036.5; 14-OCT-2004 23:43:13; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;13726
10; 1187.3; 14-OCT-2004 23:45:44; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;13726
11; 1583.4; 14-OCT-2004 23:52:20; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;13726
12; 2161.4; 15-OCT-2004 00:01:58; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;13726
13; 2401.0; 15-OCT-2004 00:05:57; Bright; 38.5; 58; 21Alp And ; 2.07; 11000;occ; 77; 0;13726
14; 2554.4; 15-OCT-2004 00:08:31; Bright; 45.5; 53; 43Bet And ; 2.05; 3300;occ; 91; 0;13726
15; 2657.0; 15-OCT-2004 00:10:13; Bright; 47.5; 173; 4Bet Tri ; 3.00; 8900;occ; 95; 0;13726
16; 2764.9; 15-OCT-2004 00:12:01; Bright; 51.0; 73; 57Gam1And ; 2.26; 13100;occ; 102; 0;13726
17; 2884.9; 15-OCT-2004 00:14:01; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;13726
18; 2966.6; 15-OCT-2004 00:15:23; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;13726
19; 3086.3; 15-OCT-2004 00:17:23; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;13726
20; 3210.2; 15-OCT-2004 00:19:27; Bright; 69.0; 149; 45Eps Per ; 2.89; 30000;occ; 138; 0;13726
21; 3421.3; 15-OCT-2004 00:22:58; Bright; 39.5; 49; 1Alp UMi ; 1.99; 6300;occ; 79; 0;13726
22; 3599.7; 15-OCT-2004 00:25:56; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;13726
23; 3916.6; 15-OCT-2004 00:31:13; Bright; 40.0; 36; 50Alp UMa ; 1.80; 6300;occ; 80; 0;13726
24; 4010.0; 15-OCT-2004 00:32:46; Bright; 53.0; 82; 48Bet UMa ; 2.37; 10600;occ; 106; 0;13726
25; 4213.6; 15-OCT-2004 00:36:10; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;13726
26; 4676.2; 15-OCT-2004 00:43:53; Bright; 94.5; 17; 78Bet Gem ; 1.16; 4500;occ; 189; 0;13726
27; 5264.4; 15-OCT-2004 00:53:41; Dark ; 49.5; 48; 30Alp Hya ; 1.98; 4100;occ; 99; 0;13726

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 3;-3633.1; 14-OCT-2004 10:41:12; Bright; 37.5; 58; 21Alp And ; 2.07; 11000;occ; 75; 0;13718
 4;-3477.3; 14-OCT-2004 10:43:48; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;13718
 5;-3372.9; 14-OCT-2004 10:45:32; Bright; 48.5; 173; 4Bet Tri ; 3.00; 8900;occ; 97; 0;13718
 6;-3262.7; 14-OCT-2004 10:47:22; Bright; 48.0; 73; 57Gam1And ; 2.26; 13100;occ; 96; 0;13718
 7;-3148.3; 14-OCT-2004 10:49:17; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;13718
 8;-3066.3; 14-OCT-2004 10:50:38; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;13718
 9;-2942.9; 14-OCT-2004 10:52:42; Bright; 49.0; 160; 23Gam Per ; 2.93; 4700;occ; 98; 0;13718
10;-2811.6; 14-OCT-2004 10:54:53; Bright; 69.5; 149; 45Eps Per ; 2.89; 30000;occ; 139; 0;13718
11;-2611.6; 14-OCT-2004 10:58:13; Bright; 39.5; 49; 1Alp UMi ; 1.99; 6300;occ; 79; 0;13718
12;-2435.7; 14-OCT-2004 11:01:09; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;13718
13;-2118.4; 14-OCT-2004 11:06:26; Bright; 39.0; 36; 50Alp UMa ; 1.80; 6300;occ; 78; 0;13718
14;-2025.7; 14-OCT-2004 11:07:59; Bright; 36.0; 82; 48Bet UMa ; 2.37; 10600;occ; 72; 0;13718
15;-1822.9; 14-OCT-2004 11:11:22; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0;13718
16;-1364.4; 14-OCT-2004 11:19:00; Bright; 92.0; 17; 78Bet Gem ; 1.16; 4500;occ; 184; 0;13718
17; -774.5; 14-OCT-2004 11:28:50; Dark ; 57.5; 48; 30Alp Hya ; 1.98; 4100;occ; 115; 0;13718
18; -545.4; 14-OCT-2004 11:32:39; Dark ; 165.5; 8; 10Alp CMi ; 0.40; 6500;occ; 331; 0;13718
19; -247.4; 14-OCT-2004 11:37:37; Dark ; 41.5; 113; Mu Vel ; 2.69; 5000;occ; 83; 0;13718
20; -109.8; 14-OCT-2004 11:39:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13718
21; -11.7; 14-OCT-2004 11:41:33; Dark ; 50.0; 34; Gam2Vel ; 1.79; 23000;occ; 100; 0;13718
22; 135.4; 14-OCT-2004 11:44:00; Dark ; 48.0; 29; Bet Car ; 1.67; 10200;occ; 96; 0;13719
23; 317.7; 14-OCT-2004 11:47:02; Dark ; 178.0; 1; 9Alp CMa ; -1.44; 11000;occ; 356; 0;13719
24; 600.4; 14-OCT-2004 11:51:45; Dark ; 70.0; 108; Alp Col ; 2.65; 15200;occ; 140; 0;13719
25; 797.9; 14-OCT-2004 11:55:03; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;13719
26; 884.5; 14-OCT-2004 11:56:29; Dark ; 40.5; 9; Alp Eri ; 0.45; 24000;occ; 81; 0;13719
27; 1035.9; 14-OCT-2004 11:59:01; Dark ; 46.5; 157; The1Eri ; 2.91; 9300;occ; 93; 0;13719
28; 1185.9; 14-OCT-2004 12:01:31; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;13719
29; 1583.4; 14-OCT-2004 12:08:08; Dark ; 15.5; 52; 16Bet Cet ; 2.04; 4500;occ; 31; 0;13719
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20041014_120808_000056852031_00138_13719_1081.N1
 1;-4452.5; 14-OCT-2004 12:08:08; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;13719
 2;-3871.7; 14-OCT-2004 12:17:49; Bright; 39.0; 140; 88Gam Peg ; 2.83; 26000;occ; 78; 0;13719
 3;-3633.4; 14-OCT-2004 12:21:47; Bright; 37.5; 58; 21Alp And ; 2.07; 11000;occ; 75; 0;13719
 4;-3477.8; 14-OCT-2004 12:24:23; Bright; 40.0; 53; 43Bet And ; 2.05; 3300;occ; 80; 0;13719
 5;-3374.0; 14-OCT-2004 12:26:07; Bright; 48.5; 173; 4Bet Tri ; 3.00; 8900;occ; 97; 0;13719
 6;-3263.3; 14-OCT-2004 12:27:57; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;13719
 7;-3148.7; 14-OCT-2004 12:29:52; Bright; 41.0; 68; 18Alp Cas ; 2.22; 4500;occ; 82; 0;13719
 8;-3066.8; 14-OCT-2004 12:31:14; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;13719
 9;-2943.7; 14-OCT-2004 12:33:17; Bright; 50.0; 160; 23Gam Per ; 2.93; 4700;occ; 100; 0;13719
10;-2612.0; 14-OCT-2004 12:38:49; Bright; 39.5; 49; 1Alp UMi ; 1.99; 6300;occ; 79; 0;13719
11;-2436.0; 14-OCT-2004 12:41:45; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;13719
12;-2118.3; 14-OCT-2004 12:47:02; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;13719
13;-2026.2; 14-OCT-2004 12:48:35; Bright; 37.0; 82; 48Bet UMa ; 2.37; 10600;occ; 74; 0;13719
14;-1822.9; 14-OCT-2004 12:51:58; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 0;13719
15;-1363.7; 14-OCT-2004 12:59:37; Bright; 92.0; 17; 78Bet Gem ; 1.16; 4500;occ; 184; 0;13719
16; -773.8; 14-OCT-2004 13:09:27; Dark ; 55.5; 48; 30Alp Hya ; 1.98; 4100;occ; 111; 0;13719
17; -542.7; 14-OCT-2004 13:13:18; Dark ; 148.5; 8; 10Alp CMi ; 0.40; 6500;occ; 297; 0;13719
18; -247.6; 14-OCT-2004 13:18:13; Dark ; 40.5; 113; Mu Vel ; 2.69; 5000;occ; 81; 0;13719
19; -109.2; 14-OCT-2004 13:20:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13719
20; -10.9; 14-OCT-2004 13:22:10; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;13719
21; 136.3; 14-OCT-2004 13:24:37; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;13720
22; 321.2; 14-OCT-2004 13:27:42; Dark ; 153.0; 1; 9Alp CMa ; -1.44; 11000;occ; 306; 0;13720
23; 601.7; 14-OCT-2004 13:32:22; Dark ; 71.5; 108; Alp Col ; 2.65; 15200;occ; 143; 0;13720
24; 798.4; 14-OCT-2004 13:35:39; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13720
25; 885.0; 14-OCT-2004 13:37:06; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;13720
26; 1035.9; 14-OCT-2004 13:39:37; Dark ; 47.5; 157; The1Eri ; 2.91; 9300;occ; 95; 0;13720
27; 1186.1; 14-OCT-2004 13:42:07; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;13720
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20041014_134844_000056822031_00139_13720_1082.N1
 1;-4452.4; 14-OCT-2004 13:48:44; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;13720
 2;-3871.3; 14-OCT-2004 13:58:25; Bright; 37.0; 140; 88Gam Peg ; 2.83; 26000;occ; 74; 0;13720
 3;-3633.5; 14-OCT-2004 14:02:23; Bright; 37.5; 58; 21Alp And ; 2.07; 11000;occ; 75; 0;13720
 4;-3478.9; 14-OCT-2004 14:04:58; Bright; 44.5; 53; 43Bet And ; 2.05; 3300;occ; 89; 0;13720
 5;-3374.8; 14-OCT-2004 14:06:42; Bright; 48.5; 173; 4Bet Tri ; 3.00; 8900;occ; 97; 0;13720
 6;-3264.7; 14-OCT-2004 14:08:32; Bright; 48.0; 73; 57Gam1And ; 2.26; 13100;occ; 96; 0;13720
 7;-3148.7; 14-OCT-2004 14:10:28; Bright; 40.5; 68; 18Alp Cas ; 2.22; 4500;occ; 81; 0;13720
 8;-3066.8; 14-OCT-2004 14:11:50; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;13720
 9;-2944.2; 14-OCT-2004 14:13:52; Bright; 48.0; 160; 23Gam Per ; 2.93; 4700;occ; 96; 0;13720

```

```

10;-2815.1; 14-OCT-2004 14:16:02; Bright; 69.0; 149; 45Eps Per ; 2.89; 30000;occ; 138; 0;13720
11;-2611.6; 14-OCT-2004 14:19:25; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;13720
12;-2434.5; 14-OCT-2004 14:22:22; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;13720
13;-2118.3; 14-OCT-2004 14:27:38; Bright; 39.0; 36; 50Alp UMa ; 1.80; 6300;occ; 78; 0;13720
14;-2024.7; 14-OCT-2004 14:29:12; Bright; 38.5; 82; 48Bet UMa ; 2.37; 10600;occ; 77; 0;13720
15;-1822.8; 14-OCT-2004 14:32:34; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;13720
16;-1363.2; 14-OCT-2004 14:40:13; Bright; 99.5; 17; 78Bet Gem ; 1.16; 4500;occ; 199; 0;13720
17; -772.7; 14-OCT-2004 14:50:04; Dark ; 54.5; 48; 30Alp Hya ; 1.98; 4100;occ; 109; 0;13720
18; -540.1; 14-OCT-2004 14:53:57; Dark ; 160.5; 8; 10Alp CMi ; 0.40; 6500;occ; 321; 0;13720
19; -247.3; 14-OCT-2004 14:58:49; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;13720
20; -108.6; 14-OCT-2004 15:01:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13720
21; -10.5; 14-OCT-2004 15:02:46; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;13720
22; 134.1; 14-OCT-2004 15:05:11; Dark ; 43.5; 29; Bet Car ; 1.67; 10200;occ; 87; 0;13721
23; 324.8; 14-OCT-2004 15:08:21; Dark ; 143.0; 1; 9Alp CMa ; -1.44; 11000;occ; 286; 0;13721
24; 603.2; 14-OCT-2004 15:13:00; Dark ; 68.0; 108; Alp Col ; 2.65; 15200;occ; 136; 0;13721
25; 797.5; 14-OCT-2004 15:16:14; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;13721
26; 884.8; 14-OCT-2004 15:17:41; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;13721
27; 1035.8; 14-OCT-2004 15:20:13; Dark ; 47.5; 157; The1Eri ; 2.91; 9300;occ; 95; 0;13721
28; 1184.5; 14-OCT-2004 15:22:41; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;13721
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL_0PNPDK20041014_152320_000058992031_00140_13721_1083.N1
1;-4813.0; 14-OCT-2004 15:23:20; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 77;13721
2;-4452.3; 14-OCT-2004 15:29:20; Dark ; 48.5; 52; 16Bet Cet ; 2.04; 4500;occ; 97; 0;13721
3;-3871.8; 14-OCT-2004 15:39:01; Bright; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;13721
4;-3633.6; 14-OCT-2004 15:42:59; Bright; 38.0; 58; 21Alp And ; 2.07; 11000;occ; 76; 0;13721
5;-3479.2; 14-OCT-2004 15:45:33; Bright; 42.5; 53; 43Bet And ; 2.05; 3300;occ; 85; 0;13721
6;-3375.4; 14-OCT-2004 15:47:17; Bright; 47.0; 173; 4Bet Tri ; 3.00; 8900;occ; 94; 0;13721
7;-3265.4; 14-OCT-2004 15:49:07; Bright; 50.0; 73; 57Gam1And ; 2.26; 13100;occ; 100; 0;13721
8;-3149.2; 14-OCT-2004 15:51:04; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;13721
9;-3067.3; 14-OCT-2004 15:52:25; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;13721
10;-2945.1; 14-OCT-2004 15:54:28; Bright; 47.0; 160; 23Gam Per ; 2.93; 4700;occ; 94; 0;13721
11;-2816.9; 14-OCT-2004 15:56:36; Bright; 71.0; 149; 45Eps Per ; 2.89; 30000;occ; 142; 0;13721
12;-2612.1; 14-OCT-2004 16:00:01; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;13721
13;-2434.3; 14-OCT-2004 16:02:58; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;13721
14;-2118.3; 14-OCT-2004 16:08:14; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;13721
15;-2024.9; 14-OCT-2004 16:09:48; Bright; 36.0; 82; 48Bet UMa ; 2.37; 10600;occ; 72; 0;13721
16;-1823.4; 14-OCT-2004 16:13:09; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;13721
17;-1362.8; 14-OCT-2004 16:20:50; Bright; 101.5; 17; 78Bet Gem ; 1.16; 4500;occ; 203; 0;13721
18; -772.5; 14-OCT-2004 16:30:40; Dark ; 57.5; 48; 30Alp Hya ; 1.98; 4100;occ; 115; 0;13721
19; -537.6; 14-OCT-2004 16:34:35; Dark ; 163.0; 8; 10Alp CMi ; 0.40; 6500;occ; 326; 0;13721
20; -247.0; 14-OCT-2004 16:39:26; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;13721
21; -108.1; 14-OCT-2004 16:41:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13721
22; -9.4; 14-OCT-2004 16:43:23; Dark ; 51.5; 34; Gam2Vel ; 1.79; 23000;occ; 103; 0;13721
23; 136.2; 14-OCT-2004 16:45:49; Dark ; 45.0; 29; Bet Car ; 1.67; 10200;occ; 90; 0;13722
24; 328.0; 14-OCT-2004 16:49:01; Dark ; 167.0; 1; 9Alp CMa ; -1.44; 11000;occ; 334; 0;13722
25; 602.7; 14-OCT-2004 16:53:35; Dark ; 73.5; 108; Alp Col ; 2.65; 15200;occ; 147; 0;13722
26; 798.8; 14-OCT-2004 16:56:52; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;13722
27; 885.4; 14-OCT-2004 16:58:18; Dark ; 41.5; 9; Alp Eri ; 0.45; 24000;occ; 83; 0;13722
28; 1036.8; 14-OCT-2004 17:00:50; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;13722
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL_0PNPDK20041014_170319_000057802031_00141_13722_1084.N1
1;-4849.5; 14-OCT-2004 17:03:19; Dark ; 46.0; 84; Alp Phe ; 2.40; 4500;occ; 92; 0;13722
2;-4452.5; 14-OCT-2004 17:09:56; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;13722
3;-3872.0; 14-OCT-2004 17:19:37; Bright; 38.5; 140; 88Gam Peg ; 2.83; 26000;occ; 77; 0;13722
4;-3633.3; 14-OCT-2004 17:23:35; Bright; 38.0; 58; 21Alp And ; 2.07; 11000;occ; 76; 0;13722
5;-3479.3; 14-OCT-2004 17:26:09; Bright; 42.0; 53; 43Bet And ; 2.05; 3300;occ; 84; 0;13722
6;-3376.6; 14-OCT-2004 17:27:52; Bright; 50.0; 173; 4Bet Tri ; 3.00; 8900;occ; 100; 0;13722
7;-3265.7; 14-OCT-2004 17:29:43; Bright; 48.0; 73; 57Gam1And ; 2.26; 13100;occ; 96; 0;13722
8;-3149.2; 14-OCT-2004 17:31:40; Bright; 40.5; 68; 18Alp Cas ; 2.22; 4500;occ; 81; 0;13722
9;-3067.1; 14-OCT-2004 17:33:02; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;13722
10;-2946.1; 14-OCT-2004 17:35:03; Bright; 49.0; 160; 23Gam Per ; 2.93; 4700;occ; 98; 0;13722
11;-2818.8; 14-OCT-2004 17:37:10; Bright; 70.5; 149; 45Eps Per ; 2.89; 30000;occ; 141; 0;13722
12;-2611.5; 14-OCT-2004 17:40:37; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;13722
13;-2434.1; 14-OCT-2004 17:43:35; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;13722
14;-2118.0; 14-OCT-2004 17:48:51; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;13722
15;-2024.6; 14-OCT-2004 17:50:24; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;13722
16;-1822.3; 14-OCT-2004 17:53:46; Bright; 38.0; 174; 52Psi UMa ; 3.00; 4400;occ; 76; 0;13722
17;-1362.8; 14-OCT-2004 18:01:26; Bright; 99.0; 17; 78Bet Gem ; 1.16; 4500;occ; 198; 0;13722
18; -771.5; 14-OCT-2004 18:11:17; Dark ; 51.0; 48; 30Alp Hya ; 1.98; 4100;occ; 102; 0;13722
19; -534.5; 14-OCT-2004 18:15:14; Dark ; 165.5; 8; 10Alp CMi ; 0.40; 6500;occ; 331; 0;13722

```

```

20; -246.6; 14-OCT-2004 18:20:02; Dark ; 40.5; 113; Mu Vel ; 2.69; 5000;occ; 81; 0;13722
21; -107.6; 14-OCT-2004 18:22:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13722
22; -8.6; 14-OCT-2004 18:24:00; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;13722
23; 137.0; 14-OCT-2004 18:26:26; Dark ; 48.5; 29; Bet Car ; 1.67; 10200;occ; 97; 0;13723
24; 330.8; 14-OCT-2004 18:29:40; Dark ; 176.5; 1; 9Alp CMA ; -1.44; 11000;occ; 353; 0;13723
25; 606.1; 14-OCT-2004 18:34:15; Dark ; 69.0; 108; Alp Col ; 2.65; 15200;occ; 138; 0;13723
26; 799.0; 14-OCT-2004 18:37:28; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;13723
27; 885.7; 14-OCT-2004 18:38:54; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;13723
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20041014_183858_000060822031_00142_13723_1085.N1
1; -5146.8; 14-OCT-2004 18:38:58; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 7;13723
2; -4998.6; 14-OCT-2004 18:41:26; Dark ; 48.5; 157; The1Eri ; 2.91; 9300;occ; 97; 0;13723
3; -4849.2; 14-OCT-2004 18:43:55; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;13723
4; -4452.4; 14-OCT-2004 18:50:32; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;13723
5; -3871.7; 14-OCT-2004 19:00:13; Bright; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;13723
6; -3633.4; 14-OCT-2004 19:04:11; Bright; 37.0; 58; 21Alp And ; 2.07; 11000;occ; 74; 0;13723
7; -3479.6; 14-OCT-2004 19:06:45; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;13723
8; -3377.3; 14-OCT-2004 19:08:27; Bright; 48.0; 173; 4Bet Tri ; 3.00; 8900;occ; 96; 0;13723
9; -3266.3; 14-OCT-2004 19:10:18; Bright; 47.5; 73; 57Gam1And ; 2.26; 13100;occ; 95; 0;13723
10; -3149.1; 14-OCT-2004 19:12:16; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;13723
11; -3067.2; 14-OCT-2004 19:13:38; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;13723
12; -2946.8; 14-OCT-2004 19:15:38; Bright; 47.5; 160; 23Gam Per ; 2.93; 4700;occ; 95; 0;13723
13; -2820.6; 14-OCT-2004 19:17:44; Bright; 69.5; 149; 45Eps Per ; 2.89; 30000;occ; 139; 0;13723
14; -2611.5; 14-OCT-2004 19:21:13; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;13723
15; -2433.9; 14-OCT-2004 19:24:11; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;13723
16; -2118.0; 14-OCT-2004 19:29:27; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;13723
17; -2024.6; 14-OCT-2004 19:31:00; Bright; 38.5; 82; 48Bet UMa ; 2.37; 10600;occ; 77; 0;13723
18; -1822.2; 14-OCT-2004 19:34:22; Bright; 38.0; 174; 52Psi UMa ; 3.00; 4400;occ; 76; 0;13723
19; -1362.3; 14-OCT-2004 19:42:02; Bright; 100.5; 17; 78Bet Gem ; 1.16; 4500;occ; 201; 0;13723
20; -770.8; 14-OCT-2004 19:51:54; Dark ; 57.5; 48; 30Alp Hya ; 1.98; 4100;occ; 115; 0;13723
21; -532.0; 14-OCT-2004 19:55:53; Dark ; 166.0; 8; 10Alp CMi ; 0.40; 6500;occ; 332; 0;13723
22; -246.6; 14-OCT-2004 20:00:38; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;13723
23; -107.0; 14-OCT-2004 20:02:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13723
24; -7.9; 14-OCT-2004 20:04:37; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;13723
25; 136.7; 14-OCT-2004 20:07:01; Dark ; 41.0; 29; Bet Car ; 1.67; 10200;occ; 82; 0;13724
26; 334.1; 14-OCT-2004 20:10:19; Dark ; 187.5; 1; 9Alp CMA ; -1.44; 11000;occ; 375; 0;13724
27; 605.7; 14-OCT-2004 20:14:50; Dark ; 71.0; 108; Alp Col ; 2.65; 15200;occ; 142; 0;13724
28; 799.4; 14-OCT-2004 20:18:04; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;13724
29; 885.9; 14-OCT-2004 20:19:31; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;13724
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20041015_005346_000042272031_00145_13726_0881.N1
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2; -522.9; 15-OCT-2004 00:57:49; Dark ; 138.5; 8; 10Alp CMi ; 0.40; 6500;occ; 277; 0;13726
3; -246.3; 15-OCT-2004 01:02:26; Dark ; 40.0; 113; Mu Vel ; 2.69; 5000;occ; 80; 0;13726
4; -105.2; 15-OCT-2004 01:04:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13726
5; 138.0; 15-OCT-2004 01:08:50; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;13727
6; 344.6; 15-OCT-2004 01:12:17; Dark ; 155.5; 1; 9Alp CMA ; -1.44; 11000;occ; 311; 0;13727
7; 612.4; 15-OCT-2004 01:16:45; Dark ; 67.5; 108; Alp Col ; 2.65; 15200;occ; 135; 0;13727
8; 800.3; 15-OCT-2004 01:19:53; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;13727
9; 887.1; 15-OCT-2004 01:21:19; Dark ; 47.5; 9; Alp Eri ; 0.45; 24000;occ; 95; 0;13727
10; 1038.9; 15-OCT-2004 01:23:51; Dark ; 46.5; 157; The1Eri ; 2.91; 9300;occ; 93; 0;13727
11; 1188.1; 15-OCT-2004 01:26:20; Dark ; 46.0; 84; Alp Phe ; 2.40; 4500;occ; 92; 0;13727
12; 1583.5; 15-OCT-2004 01:32:56; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;13727
13; 2163.4; 15-OCT-2004 01:42:36; Bright; 39.5; 140; 88Gam Peg ; 2.83; 26000;occ; 79; 0;13727
14; 2400.8; 15-OCT-2004 01:46:33; Bright; 39.5; 58; 21Alp And ; 2.07; 11000;occ; 79; 0;13727
15; 2552.3; 15-OCT-2004 01:49:05; Bright; 47.0; 53; 43Bet And ; 2.05; 3300;occ; 94; 0;13727
16; 2656.0; 15-OCT-2004 01:50:48; Bright; 47.0; 173; 4Bet Tri ; 3.00; 8900;occ; 94; 0;13727
17; 2766.0; 15-OCT-2004 01:52:38; Bright; 46.5; 73; 57Gam1And ; 2.26; 13100;occ; 93; 0;13727
18; 2884.6; 15-OCT-2004 01:54:37; Bright; 42.5; 68; 18Alp Cas ; 2.22; 4500;occ; 85; 0;13727
19; 2966.3; 15-OCT-2004 01:55:59; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;13727
20; 3085.6; 15-OCT-2004 01:57:58; Bright; 48.5; 160; 23Gam Per ; 2.93; 4700;occ; 97; 0;13727
21; 3208.6; 15-OCT-2004 02:00:01; Bright; 69.5; 149; 45Eps Per ; 2.89; 30000;occ; 139; 0;13727
22; 3421.4; 15-OCT-2004 02:03:34; Bright; 40.5; 49; 1Alp UMi ; 1.99; 6300;occ; 81; 0;13727
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3; -2027.6; 15-OCT-2004 02:13:21; Bright; 41.0; 82; 48Bet UMa ; 2.37; 10600;occ; 82; 0;13727
4; -1822.3; 15-OCT-2004 02:16:46; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;13727
5; -1359.3; 15-OCT-2004 02:24:29; Bright; 99.0; 17; 78Bet Gem ; 1.16; 4500;occ; 198; 0;13727
6; -769.0; 15-OCT-2004 02:34:19; Dark ; 54.0; 48; 30Alp Hya ; 1.98; 4100;occ; 108; 0;13727

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7; -519.8; 15-OCT-2004 02:38:28; Dark ; 135.0; 8; 10Alp CMI ; 0.40; 6500;occ; 270; 0;13727
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9; -104.6; 15-OCT-2004 02:45:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13727
10; 138.6; 15-OCT-2004 02:49:27; Dark ; 43.0; 29; Bet Car ; 1.67; 10200;occ; 86; 0;13728
11; 347.5; 15-OCT-2004 02:52:56; Dark ; 142.5; 1; 9Alp CMA ; -1.44; 11000;occ; 285; 0;13728
12; 613.2; 15-OCT-2004 02:57:21; Dark ; 69.5; 108; Alp Col ; 2.65; 15200;occ; 139; 0;13728
13; 800.7; 15-OCT-2004 03:00:29; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;13728
14; 887.1; 15-OCT-2004 03:01:55; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;13728
15; 1040.0; 15-OCT-2004 03:04:28; Dark ; 47.5; 157; The1Eri ; 2.91; 9300;occ; 95; 0;13728
16; 1187.7; 15-OCT-2004 03:06:56; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;13728
17; 1583.7; 15-OCT-2004 03:13:32; Dark ; 49.5; 52; 16Bet Cet ; 2.04; 4500;occ; 99; 0;13728
18; 2163.4; 15-OCT-2004 03:23:12; Bright; 39.0; 140; 88Gam Peg ; 2.83; 26000;occ; 78; 0;13728
19; 2399.2; 15-OCT-2004 03:27:07; Bright; 41.5; 58; 21Alp And ; 2.07; 11000;occ; 83; 0;13728
20; 2552.0; 15-OCT-2004 03:29:40; Bright; 47.0; 53; 43Bet And ; 2.05; 3300;occ; 94; 0;13728
21; 2655.0; 15-OCT-2004 03:31:23; Bright; 47.0; 173; 4Bet Tri ; 3.00; 8900;occ; 94; 0;13728
22; 2763.7; 15-OCT-2004 03:33:12; Bright; 49.5; 73; 57Gam1And ; 2.26; 13100;occ; 99; 0;13728
23; 2882.7; 15-OCT-2004 03:35:11; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;13728
24; 2966.1; 15-OCT-2004 03:36:34; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;13728
25; 3085.3; 15-OCT-2004 03:38:34; Bright; 48.0; 160; 23Gam Per ; 2.93; 4700;occ; 96; 0;13728
26; 3206.9; 15-OCT-2004 03:40:35; Bright; 68.5; 149; 45Eps Per ; 2.89; 30000;occ; 137; 0;13728
27; 3421.4; 15-OCT-2004 03:44:10; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;13728
28; 3600.3; 15-OCT-2004 03:47:09; Bright; 28.0; 60; 7Bet UMi ; 2.08; 3950;occ; 56; 0;13728
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3; -2027.6; 15-OCT-2004 03:53:57; Bright; 40.5; 82; 48Bet UMA ; 2.37; 10600;occ; 81; 0;13728
4; -1822.1; 15-OCT-2004 03:57:22; Bright; 52.0; 174; 52Psi UMA ; 3.00; 4400;occ; 104; 0;13728
5; -1358.7; 15-OCT-2004 04:05:06; Bright; 94.0; 17; 78Bet Gem ; 1.16; 4500;occ; 188; 0;13728
6; -768.3; 15-OCT-2004 04:14:56; Dark ; 54.5; 48; 30Alp Hya ; 1.98; 4100;occ; 109; 0;13728
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9; -104.0; 15-OCT-2004 04:26:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13728
10; 138.7; 15-OCT-2004 04:30:03; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;13729
11; 351.0; 15-OCT-2004 04:33:35; Dark ; 156.5; 1; 9Alp CMA ; -1.44; 11000;occ; 313; 0;13729
12; 612.9; 15-OCT-2004 04:37:57; Dark ; 72.0; 108; Alp Col ; 2.65; 15200;occ; 144; 0;13729
13; 800.4; 15-OCT-2004 04:41:05; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;13729
14; 887.3; 15-OCT-2004 04:42:32; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;13729
15; 1040.7; 15-OCT-2004 04:45:05; Dark ; 48.0; 157; The1Eri ; 2.91; 9300;occ; 96; 0;13729
16; 1186.1; 15-OCT-2004 04:47:30; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;13729
17; 1583.9; 15-OCT-2004 04:54:08; Dark ; 48.5; 52; 16Bet Cet ; 2.04; 4500;occ; 97; 0;13729
18; 2164.1; 15-OCT-2004 05:03:48; Bright; 38.5; 140; 88Gam Peg ; 2.83; 26000;occ; 77; 0;13729
19; 2400.9; 15-OCT-2004 05:07:45; Bright; 38.0; 58; 21Alp And ; 2.07; 11000;occ; 76; 0;13729
20; 2554.1; 15-OCT-2004 05:10:18; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;13729
21; 2654.3; 15-OCT-2004 05:11:59; Bright; 48.5; 173; 4Bet Tri ; 3.00; 8900;occ; 97; 0;13729
22; 2764.8; 15-OCT-2004 05:13:49; Bright; 49.5; 73; 57Gam1And ; 2.26; 13100;occ; 99; 0;13729
23; 2885.3; 15-OCT-2004 05:15:50; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;13729
24; 2966.9; 15-OCT-2004 05:17:11; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;13729
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26; 3205.0; 15-OCT-2004 05:21:09; Bright; 69.5; 149; 45Eps Per ; 2.89; 30000;occ; 139; 0;13729
27; 3423.2; 15-OCT-2004 05:24:47; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;13729
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3; -2025.8; 15-OCT-2004 05:34:34; Bright; 38.5; 82; 48Bet UMA ; 2.37; 10600;occ; 77; 0;13729
4; -1822.7; 15-OCT-2004 05:37:58; Bright; 36.5; 174; 52Psi UMA ; 3.00; 4400;occ; 73; 0;13729
5; -1358.2; 15-OCT-2004 05:45:42; Bright; 95.0; 17; 78Bet Gem ; 1.16; 4500;occ; 190; 0;13729
6; -767.7; 15-OCT-2004 05:55:33; Dark ; 59.0; 48; 30Alp Hya ; 1.98; 4100;occ; 118; 0;13729
7; -514.7; 15-OCT-2004 05:59:46; Dark ; 187.0; 8; 10Alp CMI ; 0.40; 6500;occ; 374; 0;13729
8; -245.7; 15-OCT-2004 06:04:15; Dark ; 42.5; 113; Mu Vel ; 2.69; 5000;occ; 85; 0;13729
9; -103.5; 15-OCT-2004 06:06:37; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;13729
10; 138.6; 15-OCT-2004 06:10:39; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;13730
11; 252.0; 15-OCT-2004 06:12:32; Dark ; 48.0; 161; Tau Pup ; 2.93; 4500;occ; 96; 0;13730
12; 424.2; 15-OCT-2004 06:15:24; Dark ; 74.5; 177; 1Zet CMA ; 3.02; 26000;occ; 149; 0;13730
13; 616.0; 15-OCT-2004 06:18:36; Dark ; 67.5; 108; Alp Col ; 2.65; 15200;occ; 135; 0;13730
14; 800.8; 15-OCT-2004 06:21:41; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;13730
15; 887.7; 15-OCT-2004 06:23:08; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;13730
16; 1041.0; 15-OCT-2004 06:25:41; Dark ; 48.5; 157; The1Eri ; 2.91; 9300;occ; 97; 0;13730

```

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17; 1188.1; 15-OCT-2004 06:28:08; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;13730
18; 1585.0; 15-OCT-2004 06:34:45; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;13730
19; 2164.0; 15-OCT-2004 06:44:24; Bright; 39.0; 140; 88Gam Peg ; 2.83; 26000;occ; 78; 0;13730
20; 2401.4; 15-OCT-2004 06:48:22; Bright; 38.5; 58; 21Alp And ; 2.07; 11000;occ; 77; 0;13730
21; 2554.1; 15-OCT-2004 06:50:54; Bright; 42.0; 53; 43Bet And ; 2.05; 3300;occ; 84; 0;13730
22; 2653.3; 15-OCT-2004 06:52:34; Bright; 48.5; 173; 4Bet Tri ; 3.00; 8900;occ; 97; 0;13730
23; 2764.8; 15-OCT-2004 06:54:25; Bright; 47.5; 73; 57Gam1And ; 2.26; 13100;occ; 95; 0;13730
24; 2885.1; 15-OCT-2004 06:56:25; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;13730
25; 2966.7; 15-OCT-2004 06:57:47; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;13730
26; 3053.0; 15-OCT-2004 06:59:13; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;13730
27; 3166.5; 15-OCT-2004 07:01:07; Bright; 54.5; 175; 39Del Per ; 3.01; 19400;occ; 109; 0;13730
28; 3423.2; 15-OCT-2004 07:05:23; Bright; 39.0; 49; 1Alp UMi ; 1.99; 6300;occ; 78; 0;13730
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4; -1822.0; 15-OCT-2004 07:18:34; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0;13730
5; -1484.7; 15-OCT-2004 07:24:12; Bright; 86.5; 24; 66Alp Gem ; 1.58; 10200;occ; 173; 0;13730
6; -1208.8; 15-OCT-2004 07:28:47; Bright; 57.0; 22; 32Alp Leo ; 1.36; 15200;occ; 114; 0;13730
7; -766.4; 15-OCT-2004 07:36:10; Dark ; 55.0; 48; 30Alp Hya ; 1.98; 4100;occ; 110; 0;13730
8; -510.8; 15-OCT-2004 07:40:25; Dark ; 187.0; 8; 10Alp CMi ; 0.40; 6500;occ; 374; 0;13730
9; -245.9; 15-OCT-2004 07:44:50; Dark ; 40.5; 113; Mu Vel ; 2.69; 5000;occ; 81; 0;13730
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11; -3.6; 15-OCT-2004 07:48:53; Dark ; 47.0; 34; Gam2Vel ; 1.79; 23000;occ; 94; 0;13730
12; 138.9; 15-OCT-2004 07:51:15; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;13731
13; 253.2; 15-OCT-2004 07:53:09; Dark ; 46.0; 161; Tau Pup ; 2.93; 4500;occ; 92; 0;13731
14; 425.3; 15-OCT-2004 07:56:02; Dark ; 74.0; 177; 1Zet CMa ; 3.02; 26000;occ; 148; 0;13731
15; 615.7; 15-OCT-2004 07:59:12; Dark ; 70.0; 108; Alp Col ; 2.65; 15200;occ; 140; 0;13731
16; 801.4; 15-OCT-2004 08:02:18; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;13731
17; 888.2; 15-OCT-2004 08:03:44; Dark ; 41.5; 9; Alp Eri ; 0.45; 24000;occ; 83; 0;13731
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19; 1189.2; 15-OCT-2004 08:08:45; Dark ; 39.0; 84; Alp Phe ; 2.40; 4500;occ; 78; 0;13731
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5; -3383.3; 15-OCT-2004 08:33:09; Bright; 47.0; 173; 4Bet Tri ; 3.00; 8900;occ; 94; 0;13731
6; -3271.8; 15-OCT-2004 08:35:00; Bright; 46.5; 73; 57Gam1And ; 2.26; 13100;occ; 93; 0;13731
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9; -2982.3; 15-OCT-2004 08:39:50; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;13731
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16; -1484.6; 15-OCT-2004 09:04:48; Bright; 91.0; 24; 66Alp Gem ; 1.58; 10200;occ; 182; 0;13731
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22; -2.9; 15-OCT-2004 09:29:29; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;13731
23; 139.4; 15-OCT-2004 09:31:52; Dark ; 40.0; 29; Bet Car ; 1.67; 10200;occ; 80; 0;13732
24; 254.0; 15-OCT-2004 09:33:46; Dark ; 47.0; 161; Tau Pup ; 2.93; 4500;occ; 94; 0;13732
25; 425.4; 15-OCT-2004 09:36:38; Dark ; 75.5; 177; 1Zet CMa ; 3.02; 26000;occ; 151; 0;13732
26; 617.0; 15-OCT-2004 09:39:49; Dark ; 70.5; 108; Alp Col ; 2.65; 15200;occ; 141; 0;13732
27; 801.9; 15-OCT-2004 09:42:54; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;13732
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31; 1585.2; 15-OCT-2004 09:55:57; Dark ; 42.0; 52; 16Bet Cet ; 2.04; 4500;occ; 84; 0;13732
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3;-3634.5; 15-OCT-2004 10:09:34; Bright; 38.5; 58; 21Alp And ; 2.07; 11000;occ; 77; 0;13732
4;-3482.5; 15-OCT-2004 10:12:05; Bright; 42.5; 53; 43Bet And ; 2.05; 3300;occ; 85; 0;13732
5;-3384.1; 15-OCT-2004 10:13:44; Bright; 47.0; 173; 4Bet Tri ; 3.00; 8900;occ; 94; 0;13732
6;-3272.5; 15-OCT-2004 10:15:36; Bright; 48.5; 73; 57Gam1And ; 2.26; 13100;occ; 97; 0;13732
7;-3151.3; 15-OCT-2004 10:17:37; Bright; 41.0; 68; 18Alp Cas ; 2.22; 4500;occ; 82; 0;13732
8;-3069.5; 15-OCT-2004 10:18:59; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;13732
9;-2982.4; 15-OCT-2004 10:20:26; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;13732
10;-2871.7; 15-OCT-2004 10:22:16; Bright; 55.5; 175; 39Del Per ; 3.01; 19400;occ; 111; 0;13732
11;-2612.2; 15-OCT-2004 10:26:36; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;13732
12;-2432.3; 15-OCT-2004 10:29:36; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;13732
13;-2120.8; 15-OCT-2004 10:34:47; Bright; 39.0; 36; 50Alp UMa ; 1.80; 6300;occ; 78; 0;13732
14;-2025.1; 15-OCT-2004 10:36:23; Bright; 48.0; 82; 48Bet UMa ; 2.37; 10600;occ; 96; 0;13732
15;-1822.3; 15-OCT-2004 10:39:46; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;13732
16;-1484.4; 15-OCT-2004 10:45:24; Bright; 91.5; 24; 66Alp Gem ; 1.58; 10200;occ; 183; 0;13732
17;-1208.8; 15-OCT-2004 10:49:59; Bright; 43.0; 22; 32Alp Leo ; 1.36; 15200;occ; 86; 0;13732
18; -765.0; 15-OCT-2004 10:57:23; Dark ; 56.0; 48; 30Alp Hya ; 1.98; 4100;occ; 112; 0;13732
19; -504.9; 15-OCT-2004 11:01:43; Dark ; 136.0; 8; 10Alp CMi ; 0.40; 6500;occ; 272; 0;13732
20; -245.1; 15-OCT-2004 11:06:03; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;13732
21; -101.8; 15-OCT-2004 11:08:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13732
22; -2.7; 15-OCT-2004 11:10:05; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;13732
23; 138.8; 15-OCT-2004 11:12:27; Dark ; 44.5; 29; Bet Car ; 1.67; 10200;occ; 89; 0;13733
24; 254.9; 15-OCT-2004 11:14:23; Dark ; 47.5; 161; Tau Pup ; 2.93; 4500;occ; 95; 0;13733
25; 429.1; 15-OCT-2004 11:17:17; Dark ; 75.0; 177; 1Zet CMa ; 3.02; 26000;occ; 150; 0;13733
26; 620.3; 15-OCT-2004 11:20:28; Dark ; 68.0; 108; Alp Col ; 2.65; 15200;occ; 136; 0;13733
27; 801.9; 15-OCT-2004 11:23:30; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;13733
28; 888.4; 15-OCT-2004 11:24:56; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;13733
29; 1041.9; 15-OCT-2004 11:27:30; Dark ; 46.5; 157; The1Eri ; 2.91; 9300;occ; 93; 0;13733
30; 1188.6; 15-OCT-2004 11:29:57; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;13733
31; 1585.0; 15-OCT-2004 11:36:33; Dark ; 44.5; 52; 16Bet Cet ; 2.04; 4500;occ; 89; 0;13733
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20041015_113636_000056802031_00152_13733_1089.N1
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2;-3871.6; 15-OCT-2004 11:46:12; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;13733
3;-3634.5; 15-OCT-2004 11:50:09; Bright; 38.5; 58; 21Alp And ; 2.07; 11000;occ; 77; 0;13733
4;-3483.2; 15-OCT-2004 11:52:41; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;13733
5;-3387.1; 15-OCT-2004 11:54:17; Bright; 51.0; 173; 4Bet Tri ; 3.00; 8900;occ; 102; 0;13733
6;-3273.0; 15-OCT-2004 11:56:11; Bright; 49.0; 73; 57Gam1And ; 2.26; 13100;occ; 98; 0;13733
7;-3151.4; 15-OCT-2004 11:58:12; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;13733
8;-3069.9; 15-OCT-2004 11:59:34; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;13733
9;-2981.4; 15-OCT-2004 12:01:03; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;13733
10;-2872.7; 15-OCT-2004 12:02:51; Bright; 54.0; 175; 39Del Per ; 3.01; 19400;occ; 108; 0;13733
11;-2612.8; 15-OCT-2004 12:07:11; Bright; 40.0; 49; 1Alp UMi ; 1.99; 6300;occ; 80; 0;13733
12;-2432.7; 15-OCT-2004 12:10:11; Bright; 42.0; 60; 7Bet UMi ; 2.08; 3950;occ; 84; 0;13733
13;-2120.8; 15-OCT-2004 12:15:23; Bright; 42.0; 36; 50Alp UMa ; 1.80; 6300;occ; 84; 0;13733
14;-2025.6; 15-OCT-2004 12:16:58; Bright; 38.5; 82; 48Bet UMa ; 2.37; 10600;occ; 77; 0;13733
15;-1821.7; 15-OCT-2004 12:20:22; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;13733
16;-1484.0; 15-OCT-2004 12:26:00; Bright; 87.5; 24; 66Alp Gem ; 1.58; 10200;occ; 175; 0;13733
17;-1207.4; 15-OCT-2004 12:30:36; Bright; 42.0; 22; 32Alp Leo ; 1.36; 15200;occ; 84; 0;13733
18; -764.8; 15-OCT-2004 12:37:59; Dark ; 63.0; 48; 30Alp Hya ; 1.98; 4100;occ; 126; 0;13733
19; -501.8; 15-OCT-2004 12:42:22; Dark ; 188.0; 8; 10Alp CMi ; 0.40; 6500;occ; 376; 0;13733
20; -245.4; 15-OCT-2004 12:46:38; Dark ; 41.5; 113; Mu Vel ; 2.69; 5000;occ; 83; 0;13733
21; -101.2; 15-OCT-2004 12:49:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13733
22; -1.9; 15-OCT-2004 12:50:42; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;13733
23; 139.1; 15-OCT-2004 12:53:03; Dark ; 41.0; 29; Bet Car ; 1.67; 10200;occ; 82; 0;13734
24; 255.5; 15-OCT-2004 12:54:59; Dark ; 46.5; 161; Tau Pup ; 2.93; 4500;occ; 93; 0;13734
25; 430.9; 15-OCT-2004 12:57:55; Dark ; 73.5; 177; 1Zet CMa ; 3.02; 26000;occ; 147; 0;13734
26; 621.7; 15-OCT-2004 13:01:06; Dark ; 67.0; 108; Alp Col ; 2.65; 15200;occ; 134; 0;13734
27; 801.9; 15-OCT-2004 13:04:06; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;13734
28; 888.7; 15-OCT-2004 13:05:33; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;13734
29; 1042.4; 15-OCT-2004 13:08:06; Dark ; 47.0; 157; The1Eri ; 2.91; 9300;occ; 94; 0;13734
30; 1187.0; 15-OCT-2004 13:10:31; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;13734
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20041015_131709_000056832031_00153_13734_1090.N1
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2;-3871.5; 15-OCT-2004 13:26:48; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;13734
3;-3634.6; 15-OCT-2004 13:30:45; Bright; 37.5; 58; 21Alp And ; 2.07; 11000;occ; 75; 0;13734
4;-3483.2; 15-OCT-2004 13:33:17; Bright; 40.5; 53; 43Bet And ; 2.05; 3300;occ; 81; 0;13734
5;-3385.9; 15-OCT-2004 13:34:54; Bright; 49.0; 173; 4Bet Tri ; 3.00; 8900;occ; 98; 0;13734
6;-3273.7; 15-OCT-2004 13:36:46; Bright; 48.0; 73; 57Gam1And ; 2.26; 13100;occ; 96; 0;13734

```



```

7;-3151.6; 15-OCT-2004 13:38:48; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;13734
8;-3069.9; 15-OCT-2004 13:40:10; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;13734
9;-2981.3; 15-OCT-2004 13:41:39; Bright; 35.0; 89; 5Alp Cep ; 2.45; 8000;occ; 70; 0;13734
10;-2874.1; 15-OCT-2004 13:43:26; Bright; 54.0; 175; 39Del Per ; 3.01; 19400;occ; 108; 0;13734
11;-2612.3; 15-OCT-2004 13:47:48; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;13734
12;-2431.9; 15-OCT-2004 13:50:48; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;13734
13;-2119.0; 15-OCT-2004 13:56:01; Bright; 41.5; 36; 50Alp UMa ; 1.80; 6300;occ; 83; 0;13734
14;-2025.0; 15-OCT-2004 13:57:35; Bright; 37.0; 82; 48Bet UMa ; 2.37; 10600;occ; 74; 0;13734
15;-1821.5; 15-OCT-2004 14:00:58; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;13734
16;-1483.9; 15-OCT-2004 14:06:36; Bright; 84.5; 24; 66Alp Gem ; 1.58; 10200;occ; 169; 0;13734
17;-1206.9; 15-OCT-2004 14:11:13; Bright; 43.0; 22; 32Alp Leo ; 1.36; 15200;occ; 86; 0;13734
18; -763.3; 15-OCT-2004 14:18:37; Dark ; 59.5; 48; 30Alp Hya ; 1.98; 4100;occ; 119; 0;13734
19; -498.8; 15-OCT-2004 14:23:01; Dark ; 179.0; 8; 10Alp CMi ; 0.40; 6500;occ; 358; 0;13734
20; -244.7; 15-OCT-2004 14:27:15; Dark ; 42.5; 113; Mu Vel ; 2.69; 5000;occ; 85; 0;13734
21; -100.7; 15-OCT-2004 14:29:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13734
22; -0.6; 15-OCT-2004 14:31:19; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;13734
23; 139.8; 15-OCT-2004 14:33:40; Dark ; 41.0; 29; Bet Car ; 1.67; 10200;occ; 82; 0;13735
24; 256.7; 15-OCT-2004 14:35:36; Dark ; 46.5; 161; Tau Pup ; 2.93; 4500;occ; 93; 0;13735
25; 361.1; 15-OCT-2004 14:37:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13735
26; 621.4; 15-OCT-2004 14:41:41; Dark ; 70.5; 108; Alp Col ; 2.65; 15200;occ; 141; 0;13735
27; 802.2; 15-OCT-2004 14:44:42; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;13735
28; 888.7; 15-OCT-2004 14:46:09; Dark ; 41.5; 9; Alp Eri ; 0.45; 24000;occ; 83; 0;13735
29; 1043.5; 15-OCT-2004 14:48:43; Dark ; 48.0; 157; The1Eri ; 2.91; 9300;occ; 96; 0;13735
30; 1187.2; 15-OCT-2004 14:51:07; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;13735
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2;-4450.3; 15-OCT-2004 14:57:45; Dark ; 50.5; 52; 16Bet Cet ; 2.04; 4500;occ; 101; 0;13735
3;-3871.4; 15-OCT-2004 15:07:24; Bright; 37.0; 140; 88Gam Peg ; 2.83; 26000;occ; 74; 0;13735
4;-3634.6; 15-OCT-2004 15:11:21; Bright; 38.0; 58; 21Alp And ; 2.07; 11000;occ; 76; 0;13735
5;-3483.5; 15-OCT-2004 15:13:52; Bright; 40.0; 53; 43Bet And ; 2.05; 3300;occ; 80; 0;13735
6;-3386.1; 15-OCT-2004 15:15:30; Bright; 48.5; 173; 4Bet Tri ; 3.00; 8900;occ; 97; 0;13735
7;-3274.3; 15-OCT-2004 15:17:21; Bright; 48.0; 73; 57Gam1And ; 2.26; 13100;occ; 96; 0;13735
8;-3151.8; 15-OCT-2004 15:19:24; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;13735
9;-3070.4; 15-OCT-2004 15:20:45; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;13735
10;-2981.8; 15-OCT-2004 15:22:14; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;13735
11;-2874.9; 15-OCT-2004 15:24:01; Bright; 52.5; 175; 39Del Per ; 3.01; 19400;occ; 105; 0;13735
12;-2612.9; 15-OCT-2004 15:28:23; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;13735
13;-2431.7; 15-OCT-2004 15:31:24; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;13735
14;-2119.0; 15-OCT-2004 15:36:37; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;13735
15;-2025.1; 15-OCT-2004 15:38:11; Bright; 36.5; 82; 48Bet UMa ; 2.37; 10600;occ; 73; 0;13735
16;-1821.3; 15-OCT-2004 15:41:34; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;13735
17;-1483.7; 15-OCT-2004 15:47:12; Bright; 86.5; 24; 66Alp Gem ; 1.58; 10200;occ; 173; 0;13735
18;-1207.0; 15-OCT-2004 15:51:49; Bright; 57.0; 22; 32Alp Leo ; 1.36; 15200;occ; 114; 0;13735
19; -762.8; 15-OCT-2004 15:59:13; Dark ; 57.0; 48; 30Alp Hya ; 1.98; 4100;occ; 114; 0;13735
20; -244.1; 15-OCT-2004 16:07:52; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;13735
21; -48.9; 15-OCT-2004 16:11:07; Dark ; 48.0; 70; Zet Pup ; 2.25; 39000;occ; 96; 0;13735
22; 140.2; 15-OCT-2004 16:14:16; Dark ; 43.0; 29; Bet Car ; 1.67; 10200;occ; 86; 0;13736
23; 257.5; 15-OCT-2004 16:16:13; Dark ; 47.0; 161; Tau Pup ; 2.93; 4500;occ; 94; 0;13736
24; 362.4; 15-OCT-2004 16:17:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13736
25; 624.7; 15-OCT-2004 16:22:20; Dark ; 69.5; 108; Alp Col ; 2.65; 15200;occ; 139; 0;13736
26; 802.6; 15-OCT-2004 16:25:18; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13736
27; 889.4; 15-OCT-2004 16:26:45; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;13736
28; 1044.4; 15-OCT-2004 16:29:20; Dark ; 48.0; 157; The1Eri ; 2.91; 9300;occ; 96; 0;13736
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL_0PNPDE20041015_194340_000042382031_00157_13738_0885.N1
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2; 803.0; 15-OCT-2004 19:46:31; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;13738
3; 889.5; 15-OCT-2004 19:47:57; Dark ; 53.0; 9; Alp Eri ; 0.45; 24000;occ; 106; 0;13738
4; 1045.0; 15-OCT-2004 19:50:33; Dark ; 47.5; 157; The1Eri ; 2.91; 9300;occ; 95; 0;13738
5; 1189.6; 15-OCT-2004 19:52:57; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;13738
6; 1586.1; 15-OCT-2004 19:59:34; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;13738
7; 2164.2; 15-OCT-2004 20:09:12; Bright; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;13738
8; 2401.6; 15-OCT-2004 20:13:09; Bright; 39.0; 58; 21Alp And ; 2.07; 11000;occ; 78; 0;13738
9; 2551.4; 15-OCT-2004 20:15:39; Bright; 40.0; 53; 43Bet And ; 2.05; 3300;occ; 80; 0;13738
10; 2647.7; 15-OCT-2004 20:17:16; Bright; 47.0; 173; 4Bet Tri ; 3.00; 8900;occ; 94; 0;13738
11; 2760.1; 15-OCT-2004 20:19:08; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;13738
12; 2883.8; 15-OCT-2004 20:21:12; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;13738
13; 2965.1; 15-OCT-2004 20:22:33; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;13738
14; 3055.8; 15-OCT-2004 20:24:04; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;13738

```

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15; 3156.9; 15-OCT-2004 20:25:45; Bright; 52.0; 175; 39Del Per ; 3.01; 19400;occ; 104; 0;13738
16; 3424.0; 15-OCT-2004 20:30:12; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;13738
17; 3605.3; 15-OCT-2004 20:33:13; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;13738
18; 3917.5; 15-OCT-2004 20:38:25; Bright; 40.5; 36; 50Alp UMa ; 1.80; 6300;occ; 81; 0;13738
19; 4011.3; 15-OCT-2004 20:39:59; Bright; 53.0; 82; 48Bet UMa ; 2.37; 10600;occ; 106; 0;13738
20; 4215.1; 15-OCT-2004 20:43:23; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;13738
21; 4552.7; 15-OCT-2004 20:49:01; Bright; 96.0; 24; 66Alp Gem ; 1.58; 10200;occ; 192; 0;13738
22; 4830.5; 15-OCT-2004 20:53:38; Bright; 41.0; 22; 32Alp Leo ; 1.36; 15200;occ; 82; 0;13738
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL_0PNPDE20041015_205347_000065242031_00157_13738_0886.N1
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 2; -760.5; 15-OCT-2004 21:01:03; Dark ; 59.0; 48; 30Alp Hya ; 1.98; 4100;occ; 118; 0;13738
 3; -243.9; 15-OCT-2004 21:09:40; Dark ; 40.5; 113; Mu Vel ; 2.69; 5000;occ; 81; 0;13738
 4; -46.1; 15-OCT-2004 21:12:58; Dark ; 48.0; 70; Zet Pup ; 2.25; 39000;occ; 96; 0;13738
 5; 140.2; 15-OCT-2004 21:16:04; Dark ; 41.0; 29; Bet Car ; 1.67; 10200;occ; 82; 0;13739
 6; 257.2; 15-OCT-2004 21:18:01; Dark ; 49.0; 161; Tau Pup ; 2.93; 4500;occ; 98; 0;13739
 7; 366.2; 15-OCT-2004 21:19:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13739
 8; 629.5; 15-OCT-2004 21:24:13; Dark ; 68.5; 108; Alp Col ; 2.65; 15200;occ; 137; 0;13739
 9; 802.7; 15-OCT-2004 21:27:06; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;13739
10; 889.7; 15-OCT-2004 21:28:33; Dark ; 52.0; 9; Alp Eri ; 0.45; 24000;occ; 104; 0;13739
11; 1043.0; 15-OCT-2004 21:31:07; Dark ; 48.5; 157; The1Eri ; 2.91; 9300;occ; 97; 0;13739
12; 1189.7; 15-OCT-2004 21:33:33; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;13739
13; 1585.2; 15-OCT-2004 21:40:09; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;13739
14; 2164.0; 15-OCT-2004 21:49:48; Bright; 37.0; 140; 88Gam Peg ; 2.83; 26000;occ; 74; 0;13739
15; 2400.6; 15-OCT-2004 21:53:44; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;13739
16; 2550.1; 15-OCT-2004 21:56:14; Bright; 40.0; 53; 43Bet And ; 2.05; 3300;occ; 80; 0;13739
17; 2647.4; 15-OCT-2004 21:57:51; Bright; 69.0; 173; 4Bet Tri ; 3.00; 8900;occ; 138; 0;13739
18; 2758.4; 15-OCT-2004 21:59:42; Bright; 48.5; 73; 57Gam1And ; 2.26; 13100;occ; 97; 0;13739
19; 2883.0; 15-OCT-2004 22:01:47; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;13739
20; 2964.2; 15-OCT-2004 22:03:08; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;13739
21; 3055.2; 15-OCT-2004 22:04:39; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;13739
22; 3156.1; 15-OCT-2004 22:06:20; Bright; 54.0; 175; 39Del Per ; 3.01; 19400;occ; 108; 0;13739
23; 3421.1; 15-OCT-2004 22:10:45; Bright; 41.5; 49; 1Alp UMi ; 1.99; 6300;occ; 83; 0;13739
24; 3602.6; 15-OCT-2004 22:13:46; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;13739
25; 3916.8; 15-OCT-2004 22:19:01; Bright; 39.5; 36; 50Alp UMa ; 1.80; 6300;occ; 79; 0;13739
26; 4011.2; 15-OCT-2004 22:20:35; Bright; 38.5; 82; 48Bet UMa ; 2.37; 10600;occ; 77; 0;13739
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/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20041015_163145_000059142031_00155_13736_1092.N1

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6;	-3386.6;	15-OCT-2004	16:56:05;	Bright;		48.0;	173;	4Bet Tri	;	3.00;	8900;occ;	96;	0;	13736
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13;	-2431.1;	15-OCT-2004	17:12:01;	Bright;		38.5;	60;	7Bet UMi	;	2.08;	3950;occ;	77;	0;	13736
14;	-2118.4;	15-OCT-2004	17:17:13;	Bright;		40.5;	36;	50Alp UMa	;	1.80;	6300;occ;	81;	0;	13736
15;	-2025.0;	15-OCT-2004	17:18:47;	Bright;		36.0;	82;	48Bet UMa	;	2.37;	10600;occ;	72;	0;	13736
16;	-1821.0;	15-OCT-2004	17:22:11;	Bright;		36.0;	174;	52Psi UMa	;	3.00;	4400;occ;	72;	0;	13736
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18;	-1206.4;	15-OCT-2004	17:32:25;	Bright;		41.5;	22;	32Alp Leo	;	1.36;	15200;occ;	83;	0;	13736
19;	-762.2;	15-OCT-2004	17:39:50;	Dark	;	59.5;	48;	30Alp Hya	;	1.98;	4100;occ;	119;	0;	13736
20;	-243.8;	15-OCT-2004	17:48:28;	Dark	;	41.5;	113;	Mu Vel	;	2.69;	5000;occ;	83;	0;	13736
21;	-47.8;	15-OCT-2004	17:51:44;	Dark	;	50.0;	70;	Zet Pup	;	2.25;	39000;occ;	100;	0;	13736
22;	140.4;	15-OCT-2004	17:54:52;	Dark	;	39.0;	29;	Bet Car	;	1.67;	10200;occ;	78;	0;	13737
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26;	802.7;	15-OCT-2004	18:05:55;	Dark	;	40.5;	143;	Alp Hyi	;	2.86;	7200;occ;	81;	0;	13737
27;	889.6;	15-OCT-2004	18:07:21;	Dark	;	48.0;	9;	Alp Eri	;	0.45;	24000;occ;	96;	0;	13737
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/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20041015_180957_000056862031_00156_13737_1093.N1

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 4; -1821.4; 16-OCT-2004 05:06:22; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 0;13743
 5; -1350.7; 16-OCT-2004 05:14:13; Dark ; 103.5; 17; 78Bet Gem ; 1.16; 4500;occ; 207; 0;13743
 6; -757.9; 16-OCT-2004 05:24:05; Dark ; 56.0; 48; 30Alp Hya ; 1.98; 4100;occ; 112; 0;13743
 7; -243.8; 16-OCT-2004 05:32:40; Dark ; 41.0; 113; Mu Vel ; 2.69; 5000;occ; 82; 0;13743
 8; -95.5; 16-OCT-2004 05:35:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13743
 9; 6.3; 16-OCT-2004 05:36:50; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;13744
10; 142.0; 16-OCT-2004 05:39:05; Dark ; 49.5; 29; Bet Car ; 1.67; 10200;occ; 99; 0;13744
11; 264.0; 16-OCT-2004 05:41:07; Dark ; 47.0; 161; Tau Pup ; 2.93; 4500;occ; 94; 0;13744
12; 344.1; 16-OCT-2004 05:42:27; Dark ; 52.0; 2; Alp Car ;-0.74; 7000;occ; 104; 0;13744
13; 446.9; 16-OCT-2004 05:44:10; Dark ; 75.0; 177; 1Zet CMa ; 3.02; 26000;occ; 150; 0;13744
14; 634.2; 16-OCT-2004 05:47:18; Dark ; 69.0; 108; Alp Col ; 2.65; 15200;occ; 138; 0;13744
15; 804.8; 16-OCT-2004 05:50:08; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13744
16; 891.6; 16-OCT-2004 05:51:35; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;13744
17; 1048.1; 16-OCT-2004 05:54:11; Dark ; 47.5; 157; The1Eri ; 2.91; 9300;occ; 95; 0;13744
18; 1191.4; 16-OCT-2004 05:56:35; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;13744
19; 1586.7; 16-OCT-2004 06:03:10; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;13744
20; 2164.7; 16-OCT-2004 06:12:48; Bright; 37.0; 140; 88Gam Peg ; 2.83; 26000;occ; 74; 0;13744
21; 2401.6; 16-OCT-2004 06:16:45; Bright; 38.0; 58; 21Alp And ; 2.07; 11000;occ; 76; 0;13744
22; 2549.9; 16-OCT-2004 06:19:13; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;13744
23; 2643.5; 16-OCT-2004 06:20:47; Bright; 47.0; 173; 4Bet Tri ; 3.00; 8900;occ; 94; 0;13744
24; 2756.7; 16-OCT-2004 06:22:40; Bright; 46.5; 73; 57Gam1And ; 2.26; 13100;occ; 93; 0;13744

```

```

25; 2882.8; 16-OCT-2004 06:24:46; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;13744
26; 2964.0; 16-OCT-2004 06:26:07; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;13744
27; 3057.7; 16-OCT-2004 06:27:41; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;13744
28; 3179.2; 16-OCT-2004 06:29:43; Bright; 65.0; 149; 45Eps Per ; 2.89; 30000;occ; 130; 0;13744
29; 3423.6; 16-OCT-2004 06:33:47; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;13744
30; 3605.8; 16-OCT-2004 06:36:49; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;13744
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3;-2024.6; 16-OCT-2004 06:43:35; Bright; 53.0; 82; 48Bet UMa ; 2.37; 10600;occ; 106; 0;13744
4;-1821.2; 16-OCT-2004 06:46:58; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;13744
5;-1349.9; 16-OCT-2004 06:54:49; Dark ; 109.0; 17; 78Bet Gem ; 1.16; 4500;occ; 218; 0;13744
6; -757.0; 16-OCT-2004 07:04:42; Dark ; 61.0; 48; 30Alp Hya ; 1.98; 4100;occ; 122; 0;13744
7; -242.7; 16-OCT-2004 07:13:17; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;13744
8; -94.9; 16-OCT-2004 07:15:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13744
9; 7.4; 16-OCT-2004 07:17:27; Dark ; 50.0; 34; Gam2Vel ; 1.79; 23000;occ; 100; 0;13745
10; 142.4; 16-OCT-2004 07:19:42; Dark ; 41.0; 29; Bet Car ; 1.67; 10200;occ; 82; 0;13745
11; 265.2; 16-OCT-2004 07:21:45; Dark ; 45.5; 161; Tau Pup ; 2.93; 4500;occ; 91; 0;13745
12; 345.0; 16-OCT-2004 07:23:04; Dark ; 62.0; 2; Alp Car ;-0.74; 7000;occ; 124; 0;13745
13; 448.6; 16-OCT-2004 07:24:48; Dark ; 77.5; 177; 1Zet CMa ; 3.02; 26000;occ; 155; 0;13745
14; 635.6; 16-OCT-2004 07:27:55; Dark ; 66.5; 108; Alp Col ; 2.65; 15200;occ; 133; 0;13745
15; 805.2; 16-OCT-2004 07:30:45; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;13745
16; 892.1; 16-OCT-2004 07:32:11; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;13745
17; 1048.9; 16-OCT-2004 07:34:48; Dark ; 46.0; 157; The1Eri ; 2.91; 9300;occ; 92; 0;13745
18; 1191.9; 16-OCT-2004 07:37:11; Dark ; 41.5; 84; Alp Phe ; 2.40; 4500;occ; 83; 0;13745
19; 1587.2; 16-OCT-2004 07:43:46; Dark ; 42.0; 52; 16Bet Cet ; 2.04; 4500;occ; 84; 0;13745
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2;-3871.1; 16-OCT-2004 07:53:24; Bright; 37.0; 140; 88Gam Peg ; 2.83; 26000;occ; 74; 0;13745
3;-3634.1; 16-OCT-2004 07:57:21; Bright; 38.5; 58; 21Alp And ; 2.07; 11000;occ; 77; 0;13745
4;-3486.2; 16-OCT-2004 07:59:49; Bright; 39.5; 53; 43Bet And ; 2.05; 3300;occ; 79; 0;13745
5;-3393.0; 16-OCT-2004 08:01:22; Bright; 46.0; 173; 4Bet Tri ; 3.00; 8900;occ; 92; 0;13745
6;-3279.8; 16-OCT-2004 08:03:15; Bright; 46.5; 73; 57Gam1And ; 2.26; 13100;occ; 93; 0;13745
7;-3153.0; 16-OCT-2004 08:05:22; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;13745
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9;-2977.6; 16-OCT-2004 08:08:18; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;13745
10;-2858.9; 16-OCT-2004 08:10:16; Bright; 67.5; 149; 45Eps Per ; 2.89; 30000;occ; 135; 0;13745
11;-2612.4; 16-OCT-2004 08:14:23; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;13745
12;-2429.9; 16-OCT-2004 08:17:25; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;13745
13;-2118.1; 16-OCT-2004 08:22:37; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;13745
14;-2024.4; 16-OCT-2004 08:24:11; Bright; 38.5; 82; 48Bet UMa ; 2.37; 10600;occ; 77; 0;13745
15;-1821.1; 16-OCT-2004 08:27:34; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 0;13745
16;-1349.2; 16-OCT-2004 08:35:26; Dark ; 106.5; 17; 78Bet Gem ; 1.16; 4500;occ; 213; 0;13745
17; -755.7; 16-OCT-2004 08:45:20; Dark ; 55.0; 48; 30Alp Hya ; 1.98; 4100;occ; 110; 0;13745
18; -243.4; 16-OCT-2004 08:53:52; Dark ; 43.5; 113; Mu Vel ; 2.69; 5000;occ; 87; 0;13745
19; -94.3; 16-OCT-2004 08:56:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13745
20; 8.2; 16-OCT-2004 08:58:03; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;13746
21; 143.1; 16-OCT-2004 09:00:18; Dark ; 45.5; 29; Bet Car ; 1.67; 10200;occ; 91; 0;13746
22; 266.1; 16-OCT-2004 09:02:21; Dark ; 48.5; 161; Tau Pup ; 2.93; 4500;occ; 97; 0;13746
23; 346.2; 16-OCT-2004 09:03:41; Dark ; 62.0; 2; Alp Car ;-0.74; 7000;occ; 124; 0;13746
24; 450.3; 16-OCT-2004 09:05:26; Dark ; 74.5; 177; 1Zet CMa ; 3.02; 26000;occ; 149; 0;13746
25; 637.0; 16-OCT-2004 09:08:32; Dark ; 69.0; 108; Alp Col ; 2.65; 15200;occ; 138; 0;13746
26; 805.4; 16-OCT-2004 09:11:21; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;13746
27; 892.4; 16-OCT-2004 09:12:48; Dark ; 41.0; 9; Alp Eri ; 0.45; 24000;occ; 82; 0;13746
28; 1049.3; 16-OCT-2004 09:15:25; Dark ; 46.0; 157; The1Eri ; 2.91; 9300;occ; 92; 0;13746
29; 1192.1; 16-OCT-2004 09:17:47; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;13746
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/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20041016_093400_000054612031_00165_13746_1096.N1
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2;-3634.0; 16-OCT-2004 09:37:57; Bright; 37.0; 58; 21Alp And ; 2.07; 11000;occ; 74; 0;13746
3;-3486.4; 16-OCT-2004 09:40:25; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;13746
4;-3393.4; 16-OCT-2004 09:41:58; Bright; 47.5; 173; 4Bet Tri ; 3.00; 8900;occ; 95; 0;13746
5;-3280.5; 16-OCT-2004 09:43:51; Bright; 47.5; 73; 57Gam1And ; 2.26; 13100;occ; 95; 0;13746
6;-3153.2; 16-OCT-2004 09:45:58; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;13746
7;-3073.0; 16-OCT-2004 09:47:18; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;13746
8;-2977.4; 16-OCT-2004 09:48:54; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;13746
9;-2860.3; 16-OCT-2004 09:50:51; Bright; 65.5; 149; 45Eps Per ; 2.89; 30000;occ; 131; 0;13746
10;-2612.3; 16-OCT-2004 09:54:59; Bright; 39.0; 49; 1Alp UMi ; 1.99; 6300;occ; 78; 0;13746

```

```

11;-2429.6; 16-OCT-2004 09:58:01; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;13746
12;-2118.1; 16-OCT-2004 10:03:13; Bright; 40.5; 36; 50Alp UMa ; 1.80; 6300;occ; 81; 0;13746
13;-2024.0; 16-OCT-2004 10:04:47; Bright; 35.5; 82; 48Bet UMa ; 2.37; 10600;occ; 71; 0;13746
14;-1822.8; 16-OCT-2004 10:08:08; Bright; 39.5; 174; 52Psi UMa ; 3.00; 4400;occ; 79; 0;13746
15;-1348.8; 16-OCT-2004 10:16:02; Dark ; 106.0; 17; 78Bet Gem ; 1.16; 4500;occ; 212; 0;13746
16; -755.6; 16-OCT-2004 10:25:56; Dark ; 60.0; 48; 30Alp Hya ; 1.98; 4100;occ; 120; 0;13746
17; -243.2; 16-OCT-2004 10:34:28; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;13746
18; -93.7; 16-OCT-2004 10:36:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13746
19; 8.6; 16-OCT-2004 10:38:40; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;13747
20; 142.9; 16-OCT-2004 10:40:54; Dark ; 41.0; 29; Bet Car ; 1.67; 10200;occ; 82; 0;13747
21; 267.0; 16-OCT-2004 10:42:58; Dark ; 47.5; 161; Tau Pup ; 2.93; 4500;occ; 95; 0;13747
22; 346.6; 16-OCT-2004 10:44:18; Dark ; 50.0; 2; Alp Car ;-0.74; 7000;occ; 100; 0;13747
23; 452.1; 16-OCT-2004 10:46:03; Dark ; 76.0; 177; 1Zet CMa ; 3.02; 26000;occ; 152; 0;13747
24; 638.4; 16-OCT-2004 10:49:10; Dark ; 71.0; 108; Alp Col ; 2.65; 15200;occ; 142; 0;13747
25; 806.3; 16-OCT-2004 10:51:57; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13747
26; 892.4; 16-OCT-2004 10:53:24; Dark ; 41.0; 9; Alp Eri ; 0.45; 24000;occ; 82; 0;13747
27; 1049.5; 16-OCT-2004 10:56:01; Dark ; 46.5; 157; The1Eri ; 2.91; 9300;occ; 93; 0;13747
28; 1191.9; 16-OCT-2004 10:58:23; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;13747
29; 1586.9; 16-OCT-2004 11:04:58; Dark ; 4.0; 52; 16Bet Cet ; 2.04; 4500;occ; 8; 0;13747
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL_0PNPDK20041016_110501_000056812031_00166_13747_1097.N1
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2;-3871.5; 16-OCT-2004 11:14:36; Bright; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;13747
3;-3634.3; 16-OCT-2004 11:18:33; Bright; 38.0; 58; 21Alp And ; 2.07; 11000;occ; 76; 0;13747
4;-3488.2; 16-OCT-2004 11:20:59; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;13747
5;-3394.3; 16-OCT-2004 11:22:33; Bright; 46.5; 173; 4Bet Tri ; 3.00; 8900;occ; 93; 0;13747
6;-3284.1; 16-OCT-2004 11:24:23; Bright; 47.0; 73; 57Gam1And ; 2.26; 13100;occ; 94; 0;13747
7;-3154.4; 16-OCT-2004 11:26:33; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;13747
8;-3073.2; 16-OCT-2004 11:27:54; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;13747
9;-2977.2; 16-OCT-2004 11:29:30; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;13747
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11;-2431.3; 16-OCT-2004 11:38:36; Bright; 42.5; 60; 7Bet UMi ; 2.08; 3950;occ; 85; 0;13747
12;-2118.2; 16-OCT-2004 11:43:49; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;13747
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14;-1822.7; 16-OCT-2004 11:48:44; Bright; 39.0; 174; 52Psi UMa ; 3.00; 4400;occ; 78; 0;13747
15;-1348.1; 16-OCT-2004 11:56:39; Dark ; 114.5; 17; 78Bet Gem ; 1.16; 4500;occ; 229; 0;13747
16; -754.9; 16-OCT-2004 12:06:32; Dark ; 64.0; 48; 30Alp Hya ; 1.98; 4100;occ; 128; 0;13747
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18; -93.1; 16-OCT-2004 12:17:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13747
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22; 348.1; 16-OCT-2004 12:24:55; Dark ; 55.5; 2; Alp Car ;-0.74; 7000;occ; 111; 0;13748
23; 456.5; 16-OCT-2004 12:26:43; Dark ; 72.0; 177; 1Zet CMa ; 3.02; 26000;occ; 144; 0;13748
24; 641.8; 16-OCT-2004 12:29:49; Dark ; 67.5; 108; Alp Col ; 2.65; 15200;occ; 135; 0;13748
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6;-3282.4; 16-OCT-2004 13:05:00; Bright; 47.5; 73; 57Gam1And ; 2.26; 13100;occ; 95; 0;13748
7;-3154.5; 16-OCT-2004 13:07:08; Bright; 41.0; 68; 18Alp Cas ; 2.22; 4500;occ; 82; 0;13748
8;-3074.1; 16-OCT-2004 13:08:29; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;13748
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13;-2118.2; 16-OCT-2004 13:24:25; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;13748
14;-2024.2; 16-OCT-2004 13:25:59; Bright; 51.0; 82; 48Bet UMa ; 2.37; 10600;occ; 102; 0;13748
15;-1820.1; 16-OCT-2004 13:29:23; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;13748
16;-1347.8; 16-OCT-2004 13:37:15; Dark ; 112.0; 17; 78Bet Gem ; 1.16; 4500;occ; 224; 0;13748
17; -754.1; 16-OCT-2004 13:47:09; Dark ; 62.5; 48; 30Alp Hya ; 1.98; 4100;occ; 125; 0;13748
18; -242.8; 16-OCT-2004 13:55:40; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;13748
19; -92.5; 16-OCT-2004 13:58:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13748

```



```

20; 9.5; 16-OCT-2004 13:59:52; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;13749
21; 143.5; 16-OCT-2004 14:02:06; Dark ; 45.0; 29; Bet Car ; 1.67; 10200;occ; 90; 0;13749
22; 268.7; 16-OCT-2004 14:04:12; Dark ; 46.5; 161; Tau Pup ; 2.93; 4500;occ; 93; 0;13749
23; 349.1; 16-OCT-2004 14:05:32; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;13749
24; 458.4; 16-OCT-2004 14:07:21; Dark ; 74.0; 177; 1Zet CMA ; 3.02; 26000;occ; 148; 0;13749
25; 643.6; 16-OCT-2004 14:10:27; Dark ; 67.5; 108; Alp Col ; 2.65; 15200;occ; 135; 0;13749
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27; 893.0; 16-OCT-2004 14:14:36; Dark ; 48.5; 9; Alp Eri ; 0.45; 24000;occ; 97; 0;13749
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8;-3076.0; 17-OCT-2004 10:56:14; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;13761
9;-2972.3; 17-OCT-2004 10:57:58; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;13761
10;-2613.0; 17-OCT-2004 11:03:57; Bright; 10.5; 49; 1Alp UMi ; 1.99; 6300;occ; 21; 0;13761
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2;-3871.6; 17-OCT-2004 12:23:34; Bright; 39.0; 140; 88Gam Peg ; 2.83; 26000;occ; 78; 0;13762
3;-3635.3; 17-OCT-2004 12:27:31; Bright; 39.0; 58; 21Alp And ; 2.07; 11000;occ; 78; 0;13762
4;-3492.6; 17-OCT-2004 12:29:53; Bright; 42.0; 53; 43Bet And ; 2.05; 3300;occ; 84; 0;13762
5;-3404.0; 17-OCT-2004 12:31:22; Bright; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;13762
6;-3290.3; 17-OCT-2004 12:33:16; Bright; 48.0; 73; 57Gam1And ; 2.26; 13100;occ; 96; 0;13762
7;-3156.0; 17-OCT-2004 12:35:30; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;13762
8;-3076.8; 17-OCT-2004 12:36:49; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;13762
9;-2972.7; 17-OCT-2004 12:38:33; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;13762
10;-2614.9; 17-OCT-2004 12:44:31; Bright; 39.5; 49; 1Alp UMi ; 1.99; 6300;occ; 79; 0;13762
11;-2426.1; 17-OCT-2004 12:47:40; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;13762
12;-2117.3; 17-OCT-2004 12:52:49; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;13762
13;-2023.5; 17-OCT-2004 12:54:23; Bright; 48.5; 82; 48Bet UMa ; 2.37; 10600;occ; 97; 0;13762
14;-1821.3; 17-OCT-2004 12:57:45; Bright; 39.5; 174; 52Psi UMa ; 3.00; 4400;occ; 79; 0;13762
15;-1339.2; 17-OCT-2004 13:05:47; Dark ; 133.0; 17; 78Bet Gem ; 1.16; 4500;occ; 266; 0;13762
16;-743.9; 17-OCT-2004 13:15:42; Dark ; 57.0; 48; 30Alp Hya ; 1.98; 4100;occ; 114; 0;13762
17;-241.4; 17-OCT-2004 13:24:05; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;13762
18;-84.2; 17-OCT-2004 13:26:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13762
19; 20.5; 17-OCT-2004 13:28:27; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;13763
20; 146.9; 17-OCT-2004 13:30:33; Dark ; 43.5; 29; Bet Car ; 1.67; 10200;occ; 87; 0;13763
21; 360.0; 17-OCT-2004 13:34:06; Dark ; 49.5; 2; Alp Car ; -0.74; 7000;occ; 99; 0;13763
22; 470.4; 17-OCT-2004 13:35:56; Dark ; 190.0; 1; 9Alp CMa ; -1.44; 11000;occ; 380; 0;13763
23; 810.3; 17-OCT-2004 13:41:36; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;13763
24; 896.3; 17-OCT-2004 13:43:02; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;13763
25; 1057.4; 17-OCT-2004 13:45:43; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;13763
26; 1195.6; 17-OCT-2004 13:48:02; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;13763
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2;-3871.1; 17-OCT-2004 14:04:11; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;13763
3;-3635.3; 17-OCT-2004 14:08:07; Bright; 38.5; 58; 21Alp And ; 2.07; 11000;occ; 77; 0;13763
4;-3492.3; 17-OCT-2004 14:10:30; Bright; 40.0; 53; 43Bet And ; 2.05; 3300;occ; 80; 0;13763
5;-3404.7; 17-OCT-2004 14:11:57; Bright; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;13763
6;-3290.4; 17-OCT-2004 14:13:52; Bright; 47.5; 73; 57Gam1And ; 2.26; 13100;occ; 95; 0;13763
7;-3156.5; 17-OCT-2004 14:16:05; Bright; 40.5; 68; 18Alp Cas ; 2.22; 4500;occ; 81; 0;13763
8;-3077.0; 17-OCT-2004 14:17:25; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;13763
9;-2972.2; 17-OCT-2004 14:19:10; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;13763
10;-2613.2; 17-OCT-2004 14:25:09; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;13763
11;-2425.7; 17-OCT-2004 14:28:16; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;13763
12;-2117.6; 17-OCT-2004 14:33:24; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;13763
13;-2023.3; 17-OCT-2004 14:34:59; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;13763
14;-1818.8; 17-OCT-2004 14:38:23; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;13763
15;-1338.9; 17-OCT-2004 14:46:23; Dark ; 119.0; 17; 78Bet Gem ; 1.16; 4500;occ; 238; 0;13763
16;-743.0; 17-OCT-2004 14:56:19; Dark ; 61.0; 48; 30Alp Hya ; 1.98; 4100;occ; 122; 0;13763
17;-239.5; 17-OCT-2004 15:04:42; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;13763
18;-83.6; 17-OCT-2004 15:07:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13763
19; 21.2; 17-OCT-2004 15:09:03; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;13764
20; 147.3; 17-OCT-2004 15:11:09; Dark ; 41.0; 29; Bet Car ; 1.67; 10200;occ; 82; 0;13764
21; 361.1; 17-OCT-2004 15:14:43; Dark ; 52.5; 2; Alp Car ; -0.74; 7000;occ; 105; 0;13764
22; 473.8; 17-OCT-2004 15:16:36; Dark ; 204.5; 1; 9Alp CMa ; -1.44; 11000;occ; 409; 0;13764
23; 810.0; 17-OCT-2004 15:22:12; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;13764
24; 896.7; 17-OCT-2004 15:23:39; Dark ; 49.5; 9; Alp Eri ; 0.45; 24000;occ; 99; 0;13764
25; 1058.1; 17-OCT-2004 15:26:20; Dark ; 47.0; 157; The1Eri ; 2.91; 9300;occ; 94; 0;13764
26; 1195.5; 17-OCT-2004 15:28:37; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;13764
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2; 898.1; 17-OCT-2004 20:25:28; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;13767
3; 1059.7; 17-OCT-2004 20:28:10; Dark ; 46.0; 157; The1Eri ; 2.91; 9300;occ; 92; 0;13767
4; 1196.3; 17-OCT-2004 20:30:26; Dark ; 39.0; 84; Alp Phe ; 2.40; 4500;occ; 78; 0;13767

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5; 1590.4; 17-OCT-2004 20:37:00; Dark ; 44.5; 52; 16Bet Cet ; 2.04; 4500;occ; 89; 0;13767
6; 2166.0; 17-OCT-2004 20:46:36; Bright; 37.0; 140; 88Gam Peg ; 2.83; 26000;occ; 74; 0;13767
7; 2401.9; 17-OCT-2004 20:50:32; Bright; 38.0; 58; 21Alp And ; 2.07; 11000;occ; 76; 0;13767
8; 2543.3; 17-OCT-2004 20:52:53; Bright; 39.0; 53; 43Bet And ; 2.05; 3300;occ; 78; 0;13767
9; 2629.1; 17-OCT-2004 20:54:19; Bright; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;13767
10; 2743.2; 17-OCT-2004 20:56:13; Bright; 45.0; 73; 57Gam1And ; 2.26; 13100;occ; 90; 0;13767
11; 2879.4; 17-OCT-2004 20:58:29; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;13767
12; 2959.5; 17-OCT-2004 20:59:49; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;13767
13; 3066.3; 17-OCT-2004 21:01:36; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;13767
14; 3424.1; 17-OCT-2004 21:07:34; Bright; 39.0; 49; 1Alp UMi ; 1.99; 6300;occ; 78; 0;13767
15; 3612.4; 17-OCT-2004 21:10:42; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;13767
16; 3918.6; 17-OCT-2004 21:15:49; Bright; 39.0; 36; 50Alp UMa ; 1.80; 6300;occ; 78; 0;13767
17; 4012.1; 17-OCT-2004 21:17:22; Bright; 53.0; 82; 48Bet UMa ; 2.37; 10600;occ; 106; 0;13767
18; 4217.7; 17-OCT-2004 21:20:48; Bright; 38.0; 174; 52Psi UMa ; 3.00; 4400;occ; 76; 0;13767
19; 4698.8; 17-OCT-2004 21:28:49; Dark ; 126.0; 17; 78Bet Gem ; 1.16; 4500;occ; 252; 0;13767
20; 5297.3; 17-OCT-2004 21:38:47; Dark ; 29.0; 48; 30Alp Hya ; 1.98; 4100;occ; 58; 0;13767
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3; -81.3; 17-OCT-2004 21:49:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13767
4; 25.5; 17-OCT-2004 21:51:31; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;13768
5; 186.7; 17-OCT-2004 21:54:13; Dark ; 78.0; 37; 25Del CMa ; 1.83; 5900;occ; 156; 0;13768
6; 364.3; 17-OCT-2004 21:57:10; Dark ; 49.5; 2; Alp Car ; -0.74; 7000;occ; 99; 0;13768
7; 488.0; 17-OCT-2004 21:59:14; Dark ; 204.5; 1; 9Alp CMa ; -1.44; 11000;occ; 409; 0;13768
8; 811.5; 17-OCT-2004 22:04:37; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;13768
9; 898.0; 17-OCT-2004 22:06:04; Dark ; 52.0; 9; Alp Eri ; 0.45; 24000;occ; 104; 0;13768
10; 1060.1; 17-OCT-2004 22:08:46; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;13768
11; 1195.9; 17-OCT-2004 22:11:02; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;13768
12; 1590.2; 17-OCT-2004 22:17:36; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;13768
13; 2165.8; 17-OCT-2004 22:27:12; Bright; 36.5; 140; 88Gam Peg ; 2.83; 26000;occ; 73; 0;13768
14; 2401.7; 17-OCT-2004 22:31:08; Bright; 37.5; 58; 21Alp And ; 2.07; 11000;occ; 75; 0;13768
15; 2542.7; 17-OCT-2004 22:33:29; Bright; 40.5; 53; 43Bet And ; 2.05; 3300;occ; 81; 0;13768
16; 2628.0; 17-OCT-2004 22:34:54; Bright; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;13768
17; 2742.4; 17-OCT-2004 22:36:48; Bright; 44.5; 73; 57Gam1And ; 2.26; 13100;occ; 89; 0;13768
18; 2879.1; 17-OCT-2004 22:39:05; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;13768
19; 2959.2; 17-OCT-2004 22:40:25; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;13768
20; 3066.5; 17-OCT-2004 22:42:12; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;13768
21; 3423.9; 17-OCT-2004 22:48:10; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;13768
22; 3612.4; 17-OCT-2004 22:51:18; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;13768
23; 3918.3; 17-OCT-2004 22:56:24; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;13768
24; 4012.1; 17-OCT-2004 22:57:58; Bright; 44.5; 82; 48Bet UMa ; 2.37; 10600;occ; 89; 0;13768
25; 4217.7; 17-OCT-2004 23:01:24; Bright; 38.0; 174; 52Psi UMa ; 3.00; 4400;occ; 76; 0;13768
26; 4699.7; 17-OCT-2004 23:09:26; Dark ; 114.5; 17; 78Bet Gem ; 1.16; 4500;occ; 229; 0;13768
27; 5297.8; 17-OCT-2004 23:19:24; Dark ; 47.5; 48; 30Alp Hya ; 1.98; 4100;occ; 95; 0;13768
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2; -237.4; 17-OCT-2004 23:27:44; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;13768
3; -80.7; 17-OCT-2004 23:30:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13768
4; 26.0; 17-OCT-2004 23:32:08; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;13769
5; 188.9; 17-OCT-2004 23:34:51; Dark ; 77.0; 37; 25Del CMa ; 1.83; 5900;occ; 154; 0;13769
6; 364.5; 17-OCT-2004 23:37:46; Dark ; 49.5; 2; Alp Car ; -0.74; 7000;occ; 99; 0;13769
7; 492.0; 17-OCT-2004 23:39:54; Dark ; 204.0; 1; 9Alp CMa ; -1.44; 11000;occ; 408; 0;13769
8; 811.3; 17-OCT-2004 23:45:13; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;13769
9; 897.9; 17-OCT-2004 23:46:40; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;13769
10; 1059.6; 17-OCT-2004 23:49:21; Dark ; 47.5; 157; The1Eri ; 2.91; 9300;occ; 95; 0;13769
11; 1196.0; 17-OCT-2004 23:51:38; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;13769
12; 1590.3; 17-OCT-2004 23:58:12; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;13769
13; 2165.6; 18-OCT-2004 00:07:47; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;13769
14; 2401.5; 18-OCT-2004 00:11:43; Bright; 37.5; 58; 21Alp And ; 2.07; 11000;occ; 75; 0;13769
15; 2542.5; 18-OCT-2004 00:14:04; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;13769
16; 2626.9; 18-OCT-2004 00:15:29; Bright; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;13769
17; 2741.9; 18-OCT-2004 00:17:24; Bright; 45.0; 73; 57Gam1And ; 2.26; 13100;occ; 90; 0;13769
18; 2878.7; 18-OCT-2004 00:19:40; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;13769
19; 2958.6; 18-OCT-2004 00:21:00; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;13769
20; 3066.6; 18-OCT-2004 00:22:48; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;13769
21; 3423.9; 18-OCT-2004 00:28:46; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;13769
22; 3612.6; 18-OCT-2004 00:31:54; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;13769
23; 3917.9; 18-OCT-2004 00:37:00; Bright; 39.0; 36; 50Alp UMa ; 1.80; 6300;occ; 78; 0;13769

```

```

24; 4012.1; 18-OCT-2004 00:38:34; Bright; 38.5; 82; 48Bet UMA ; 2.37; 10600;occ; 77; 0;13769
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26; 4700.6; 18-OCT-2004 00:50:02; Dark ; 135.0; 17; 78Bet Gem ; 1.16; 4500;occ; 270; 0;13769
27; 5298.3; 18-OCT-2004 01:00:00; Dark ; 57.5; 48; 30Alp Hya ; 1.98; 4100;occ; 115; 0;13769
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4;-3634.7; 17-OCT-2004 15:48:43; Bright; 38.0; 58; 21Alp And ; 2.07; 11000;occ; 76; 0;13764
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12;-2424.6; 17-OCT-2004 16:08:53; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;13764
13;-2117.7; 17-OCT-2004 16:14:00; Bright; 39.5; 36; 50Alp UMa ; 1.80; 6300;occ; 79; 0;13764
14;-2023.4; 17-OCT-2004 16:15:35; Bright; 35.0; 82; 48Bet UMA ; 2.37; 10600;occ; 70; 0;13764
15;-1819.4; 17-OCT-2004 16:18:59; Bright; 39.5; 174; 52Psi UMA ; 3.00; 4400;occ; 79; 0;13764
16;-1338.2; 17-OCT-2004 16:27:00; Dark ; 108.5; 17; 78Bet Gem ; 1.16; 4500;occ; 217; 0;13764
17; -741.4; 17-OCT-2004 16:36:57; Dark ; 53.5; 48; 30Alp Hya ; 1.98; 4100;occ; 107; 0;13764
18; -238.6; 17-OCT-2004 16:45:19; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;13764
19; -83.1; 17-OCT-2004 16:47:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13764
20; 22.9; 17-OCT-2004 16:49:41; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;13765
21; 181.3; 17-OCT-2004 16:52:19; Dark ; 81.0; 37; 25Del CMA ; 1.83; 5900;occ; 162; 0;13765
22; 361.9; 17-OCT-2004 16:55:20; Dark ; 55.0; 2; Alp Car ; -0.74; 7000;occ; 110; 0;13765
23; 477.5; 17-OCT-2004 16:57:15; Dark ; 222.5; 1; 9Alp CMA ; -1.44; 11000;occ; 445; 0;13765
24; 810.2; 17-OCT-2004 17:02:48; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;13765
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6;-3492.9; 17-OCT-2004 17:31:41; Bright; 40.5; 53; 43Bet And ; 2.05; 3300;occ; 81; 0;13765
7;-3406.2; 17-OCT-2004 17:33:08; Bright; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;13765
8;-3291.8; 17-OCT-2004 17:35:02; Bright; 47.0; 73; 57Gam1And ; 2.26; 13100;occ; 94; 0;13765
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11;-2971.1; 17-OCT-2004 17:40:23; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;13765
12;-2613.1; 17-OCT-2004 17:46:21; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;13765
13;-2425.3; 17-OCT-2004 17:49:29; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;13765
14;-2117.1; 17-OCT-2004 17:54:37; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;13765
15;-2023.8; 17-OCT-2004 17:56:10; Bright; 38.5; 82; 48Bet UMA ; 2.37; 10600;occ; 77; 0;13765
16;-1819.5; 17-OCT-2004 17:59:35; Bright; 53.0; 174; 52Psi UMA ; 3.00; 4400;occ; 106; 0;13765
17;-1337.8; 17-OCT-2004 18:07:36; Dark ; 112.5; 17; 78Bet Gem ; 1.16; 4500;occ; 225; 0;13765
18; -741.0; 17-OCT-2004 18:17:33; Dark ; 57.0; 48; 30Alp Hya ; 1.98; 4100;occ; 114; 0;13765
19; -238.3; 17-OCT-2004 18:25:56; Dark ; 41.5; 113; Mu Vel ; 2.69; 5000;occ; 83; 0;13765
20; -82.5; 17-OCT-2004 18:28:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13765
21; 23.7; 17-OCT-2004 18:30:18; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;13766
22; 182.9; 17-OCT-2004 18:32:57; Dark ; 90.0; 37; 25Del CMA ; 1.83; 5900;occ; 180; 0;13766
23; 362.9; 17-OCT-2004 18:35:57; Dark ; 51.5; 2; Alp Car ; -0.74; 7000;occ; 103; 0;13766
24; 480.6; 17-OCT-2004 18:37:55; Dark ; 171.0; 1; 9Alp CMA ; -1.44; 11000;occ; 342; 0;13766
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```

11;-3156.7; 17-OCT-2004 19:17:53; Bright; 41.0; 68; 18Alp Cas ; 2.22; 4500;occ; 82; 0;13766
 12;-3076.4; 17-OCT-2004 19:19:14; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;13766
 13;-2970.3; 17-OCT-2004 19:21:00; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;13766
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 17;-2023.9; 17-OCT-2004 19:36:46; Bright; 39.0; 82; 48Bet UMa ; 2.37; 10600;occ; 78; 0;13766
 18;-1818.2; 17-OCT-2004 19:40:12; Bright; 38.5; 174; 52Psi UMa ; 3.00; 4400;occ; 77; 0;13766
 19;-1337.4; 17-OCT-2004 19:48:13; Dark ; 111.0; 17; 78Bet Gem ; 1.16; 4500;occ; 222; 0;13766
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 21; -237.4; 17-OCT-2004 20:06:33; Dark ; 41.0; 113; Mu Vel ; 2.69; 5000;occ; 82; 0;13766
 22; -81.9; 17-OCT-2004 20:09:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13766
 23; 24.7; 17-OCT-2004 20:10:55; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;13767
 24; 184.5; 17-OCT-2004 20:13:34; Dark ; 77.5; 37; 25Del CMA ; 1.83; 5900;occ; 155; 0;13767
 25; 363.7; 17-OCT-2004 20:16:34; Dark ; 61.5; 2; Alp Car ; -0.74; 7000;occ; 123; 0;13767
 26; 484.0; 17-OCT-2004 20:18:34; Dark ; 217.5; 1; 9Alp CMA ; -1.44; 11000;occ; 435; 0;13767
 27; 811.8; 17-OCT-2004 20:24:02; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;13767

/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20041018_010002_000041942031_00188_13769_0901.N1

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 6; 365.3; 18-OCT-2004 01:18:23; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;13770
 7; 495.7; 18-OCT-2004 01:20:33; Dark ; 223.0; 1; 9Alp CMA ; -1.44; 11000;occ; 446; 0;13770
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 9; 898.2; 18-OCT-2004 01:27:16; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;13770
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 11; 1196.5; 18-OCT-2004 01:32:14; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;13770
 12; 1590.4; 18-OCT-2004 01:38:48; Dark ; 44.0; 52; 16Bet Cet ; 2.04; 4500;occ; 88; 0;13770
 13; 2165.3; 18-OCT-2004 01:48:23; Bright; 37.0; 140; 88Gam Peg ; 2.83; 26000;occ; 74; 0;13770
 14; 2401.2; 18-OCT-2004 01:52:19; Bright; 38.0; 58; 21Alp And ; 2.07; 11000;occ; 76; 0;13770
 15; 2541.7; 18-OCT-2004 01:54:39; Bright; 42.0; 53; 43Bet And ; 2.05; 3300;occ; 84; 0;13770
 16; 2626.8; 18-OCT-2004 01:56:04; Bright; 46.5; 173; 4Bet Tri ; 3.00; 8900;occ; 93; 0;13770
 17; 2741.3; 18-OCT-2004 01:57:59; Bright; 45.0; 73; 57Gam1And ; 2.26; 13100;occ; 90; 0;13770
 18; 2878.6; 18-OCT-2004 02:00:16; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;13770
 19; 2958.1; 18-OCT-2004 02:01:36; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;13770
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/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20041018_021230_000060742031_00189_13770_0902.N1

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 4;-1817.9; 18-OCT-2004 02:22:36; Bright; 38.0; 174; 52Psi UMa ; 3.00; 4400;occ; 76; 0;13770
 5;-1334.4; 18-OCT-2004 02:30:39; Dark ; 121.0; 17; 78Bet Gem ; 1.16; 4500;occ; 242; 0;13770
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 7; -236.8; 18-OCT-2004 02:48:57; Dark ; 42.5; 113; Mu Vel ; 2.69; 5000;occ; 85; 0;13770
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 12; 499.5; 18-OCT-2004 03:01:13; Dark ; 201.0; 1; 9Alp CMA ; -1.44; 11000;occ; 402; 0;13771
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 16; 1196.4; 18-OCT-2004 03:12:50; Dark ; 46.0; 84; Alp Phe ; 2.40; 4500;occ; 92; 0;13771
 17; 1590.7; 18-OCT-2004 03:19:24; Dark ; 45.0; 52; 16Bet Cet ; 2.04; 4500;occ; 90; 0;13771
 18; 2166.0; 18-OCT-2004 03:28:59; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;13771
 19; 2401.4; 18-OCT-2004 03:32:55; Bright; 36.5; 58; 21Alp And ; 2.07; 11000;occ; 73; 0;13771
 20; 2541.4; 18-OCT-2004 03:35:15; Bright; 42.5; 53; 43Bet And ; 2.05; 3300;occ; 85; 0;13771
 21; 2626.0; 18-OCT-2004 03:36:40; Bright; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;13771
 22; 2740.5; 18-OCT-2004 03:38:34; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;13771
 23; 2878.2; 18-OCT-2004 03:40:52; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;13771
 24; 2958.0; 18-OCT-2004 03:42:11; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;13771
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/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20041018_035332_000058562031_00190_13771_0903.N1


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6; -736.0; 18-OCT-2004 04:21:13; Dark ; 59.5; 48; 30Alp Hya ; 1.98; 4100;occ; 119; 0;13771
7; -236.6; 18-OCT-2004 04:29:33; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;13771
8; -78.9; 18-OCT-2004 04:32:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13771
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10; 194.0; 18-OCT-2004 04:36:43; Dark ; 77.0; 37; 25Del CMA ; 1.83; 5900;occ; 154; 0;13772
11; 367.4; 18-OCT-2004 04:39:37; Dark ; 52.0; 2; Alp Car ; -0.74; 7000;occ; 104; 0;13772
12; 503.1; 18-OCT-2004 04:41:53; Dark ; 197.5; 1; 9Alp CMA ; -1.44; 11000;occ; 395; 0;13772
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14; 898.8; 18-OCT-2004 04:48:28; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;13772
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17; 1590.8; 18-OCT-2004 05:00:00; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;13772
18; 2165.7; 18-OCT-2004 05:09:35; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;13772
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21; 2625.0; 18-OCT-2004 05:17:15; Bright; 46.0; 173; 4Bet Tri ; 3.00; 8900;occ; 92; 0;13772
22; 2739.9; 18-OCT-2004 05:19:09; Bright; 45.0; 73; 57Gam1And ; 2.26; 13100;occ; 90; 0;13772
23; 2878.2; 18-OCT-2004 05:21:28; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;13772
24; 2958.1; 18-OCT-2004 05:22:48; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;13772
25; 3067.4; 18-OCT-2004 05:24:37; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;13772
26; 3423.8; 18-OCT-2004 05:30:33; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;13772
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4;-1817.7; 18-OCT-2004 05:43:48; Bright; 38.0; 174; 52Psi UMA ; 3.00; 4400;occ; 76; 0;13772
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7; -236.1; 18-OCT-2004 06:10:09; Dark ; 42.5; 113; Mu Vel ; 2.69; 5000;occ; 85; 0;13772
8; -78.3; 18-OCT-2004 06:12:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13772
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12; 507.0; 18-OCT-2004 06:22:32; Dark ; 218.0; 1; 9Alp CMA ; -1.44; 11000;occ; 436; 0;13773
13; 813.3; 18-OCT-2004 06:27:39; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;13773
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26; 3423.7; 18-OCT-2004 07:11:09; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;13773
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 16; 2732.7; 19-OCT-2004 03:06:49; Bright; 45.0; 73; 57Gam1And ; 2.26; 13100;occ; 90; 0;13785
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 2; -2117.3; 19-OCT-2004 06:47:47; Bright; 39.5; 36; 50Alp UMa ; 1.80; 6300;occ; 79; 0;13787
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 15; 1200.3; 19-OCT-2004 07:43:05; Dark ; 37.5; 84; Alp Phe ; 2.40; 4500;occ; 75; 0;13788
 16; 1593.8; 19-OCT-2004 07:49:38; Dark ; 44.5; 52; 16Bet Cet ; 2.04; 4500;occ; 89; 0;13788

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14;-1816.1; 19-OCT-2004 08:33:24; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;13788
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21; 381.4; 19-OCT-2004 09:10:02; Dark ; 51.5; 2; Alp Car ; -0.74; 7000;occ; 103; 0;13789
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23; 903.9; 19-OCT-2004 09:18:44; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;13789
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13;-1815.9; 19-OCT-2004 10:14:00; Bright; 53.0; 174; 52Psi UMa ; 3.00; 4400;occ; 106; 0;13789
14;-1321.3; 19-OCT-2004 10:22:15; Dark ; 144.0; 17; 78Bet Gem ; 1.16; 4500;occ; 288; 0;13789
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23; 1070.2; 19-OCT-2004 11:02:07; Dark ; 47.0; 157; The1Eri ; 2.91; 9300;occ; 94; 0;13790
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6;-3081.4; 19-OCT-2004 11:33:31; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;13790
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11;-2023.0; 19-OCT-2004 11:51:09; Bright; 36.5; 82; 48Bet UMa ; 2.37; 10600;occ; 73; 0;13790
12;-1815.8; 19-OCT-2004 11:54:36; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;13790
13;-1320.6; 19-OCT-2004 12:02:52; Dark ; 135.5; 17; 78Bet Gem ; 1.16; 4500;occ; 271; 0;13790
14;-721.4; 19-OCT-2004 12:12:51; Dark ; 54.5; 48; 30Alp Hya ; 1.98; 4100;occ; 109; 0;13790
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16;-67.2; 19-OCT-2004 12:23:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13790

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19; 381.9; 19-OCT-2004 12:31:14; Dark ; 51.0; 2; Alp Car ; -0.74; 7000;occ; 102; 0;13791
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9; -2419.7; 19-OCT-2004 13:25:08; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;13791
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12; -1815.9; 19-OCT-2004 13:35:12; Bright; 36.0; 174; 52Psi UMa ; 3.00; 4400;occ; 72; 0;13791
13; -1319.6; 19-OCT-2004 13:43:28; Dark ; 128.0; 17; 78Bet Gem ; 1.16; 4500;occ; 256; 0;13791
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20; 579.3; 19-OCT-2004 14:15:07; Dark ; 221.0; 1; 9Alp CMA ; -1.44; 11000;occ; 442; 0;13792
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22; 1068.6; 19-OCT-2004 14:23:17; Dark ; 48.0; 157; The1Eri ; 2.91; 9300;occ; 96; 0;13792
23; 1199.5; 19-OCT-2004 14:25:28; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;13792
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13; 2165.2; 19-OCT-2004 01:16:46; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;13784
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16; 2616.9; 19-OCT-2004 01:24:18; Bright; 46.5; 173; 4Bet Tri ; 3.00; 8900;occ; 93; 0;13784
17; 2733.5; 19-OCT-2004 01:26:14; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;13784
18; 2876.0; 19-OCT-2004 01:28:37; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;13784
19; 2955.5; 19-OCT-2004 01:29:56; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;13784
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21; 3422.5; 19-OCT-2004 01:37:43; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;13784
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23; 3918.6; 19-OCT-2004 01:45:59; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;13784
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12; 555.5; 19-OCT-2004 04:11:08; Dark ; 222.0; 1; 9Alp CMa ; -1.44; 11000;occ; 444; 0;13786
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16; 1592.9; 19-OCT-2004 04:28:25; Dark ; 44.5; 52; 16Bet Cet ; 2.04; 4500;occ; 89; 0;13786
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23; 2955.9; 19-OCT-2004 04:51:09; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;13786
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11; 379.8; 19-OCT-2004 05:48:48; Dark ; 52.0; 2; Alp Car ; -0.74; 7000;occ; 104; 0;13787
12; 559.5; 19-OCT-2004 05:51:48; Dark ; 222.0; 1; 9Alp CMa ; -1.44; 11000;occ; 444; 0;13787
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16; 1593.4; 19-OCT-2004 06:09:02; Dark ; 41.5; 52; 16Bet Cet ; 2.04; 4500;occ; 83; 0;13787
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23; 2955.4; 19-OCT-2004 06:31:44; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;13787
24; 3073.5; 19-OCT-2004 06:33:42; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;13787

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3; 1072.6; 19-OCT-2004 21:05:45; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;13796
4; 1200.2; 19-OCT-2004 21:07:52; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;13796
5; 1593.8; 19-OCT-2004 21:14:26; Dark ; 46.5; 52; 16Bet Cet ; 2.04; 4500;occ; 93; 0;13796
6; 2166.3; 19-OCT-2004 21:23:58; Bright; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;13796
7; 2319.2; 19-OCT-2004 21:26:31; Bright; 44.5; 105; 6Bet Ari ; 2.64; 8900;occ; 89; 0;13796
8; 2424.9; 19-OCT-2004 21:28:17; Bright; 41.5; 93; 53Bet Peg ; 2.52; 3100;occ; 83; 0;13796
9; 2535.0; 19-OCT-2004 21:30:07; Bright; 42.0; 53; 43Bet And ; 2.05; 3300;occ; 84; 0;13796
10; 2726.9; 19-OCT-2004 21:33:19; Bright; 43.5; 73; 57Gam1And ; 2.26; 13100;occ; 87; 0;13796
11; 2873.8; 19-OCT-2004 21:35:46; Bright; 41.0; 68; 18Alp Cas ; 2.22; 4500;occ; 82; 0;13796
12; 2953.7; 19-OCT-2004 21:37:06; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;13796
13; 3076.2; 19-OCT-2004 21:39:08; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;13796
14; 3422.4; 19-OCT-2004 21:44:54; Bright; 40.0; 49; 1Alp UMi ; 1.99; 6300;occ; 80; 0;13796
15; 3615.5; 19-OCT-2004 21:48:08; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;13796
16; 3918.5; 19-OCT-2004 21:53:11; Bright; 39.0; 36; 50Alp UMA ; 1.80; 6300;occ; 78; 0;13796
17; 4012.1; 19-OCT-2004 21:54:44; Bright; 39.0; 82; 48Bet UMA ; 2.37; 10600;occ; 78; 0;13796
18; 4220.5; 19-OCT-2004 21:58:13; Bright; 38.5; 174; 52Psi UMA ; 3.00; 4400;occ; 77; 0;13796
19; 4719.8; 19-OCT-2004 22:06:32; Dark ; 148.5; 17; 78Bet Gem ; 1.16; 4500;occ; 297; 0;13796
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3; -63.5; 19-OCT-2004 22:27:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13796
4; 28.5; 19-OCT-2004 22:28:56; Dark ; 45.5; 46; Del Vel ; 1.95; 10600;occ; 91; 0;13797
5; 241.6; 19-OCT-2004 22:32:30; Dark ; 84.5; 37; 25Del CMa ; 1.83; 5900;occ; 169; 0;13797
6; 386.7; 19-OCT-2004 22:34:55; Dark ; 53.5; 2; Alp Car ; -0.74; 7000;occ; 107; 0;13797
7; 598.9; 19-OCT-2004 22:38:27; Dark ; 221.0; 1; 9Alp CMa ; -1.44; 11000;occ; 442; 0;13797
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10; 1200.9; 19-OCT-2004 22:48:29; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;13797
11; 1594.5; 19-OCT-2004 22:55:02; Dark ; 43.5; 52; 16Bet Cet ; 2.04; 4500;occ; 87; 0;13797
12; 2166.5; 19-OCT-2004 23:04:34; Bright; 39.0; 140; 88Gam Peg ; 2.83; 26000;occ; 78; 0;13797
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14; 2424.9; 19-OCT-2004 23:08:53; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;13797
15; 2534.1; 19-OCT-2004 23:10:42; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;13797
16; 2725.8; 19-OCT-2004 23:13:54; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;13797
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3; -62.8; 20-OCT-2004 00:08:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13797
4; 29.0; 20-OCT-2004 00:09:33; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;13798
5; 241.9; 20-OCT-2004 00:13:06; Dark ; 84.0; 37; 25Del CMa ; 1.83; 5900;occ; 168; 0;13798
6; 385.7; 20-OCT-2004 00:15:29; Dark ; 54.5; 2; Alp Car ; -0.74; 7000;occ; 109; 0;13798
7; 602.8; 20-OCT-2004 00:19:07; Dark ; 221.0; 1; 9Alp CMa ; -1.44; 11000;occ; 442; 0;13798
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14; 2425.1; 20-OCT-2004 00:49:29; Bright; 41.0; 93; 53Bet Peg ; 2.52; 3100;occ; 82; 0;13798
15; 2532.1; 20-OCT-2004 00:51:16; Bright; 43.5; 53; 43Bet And ; 2.05; 3300;occ; 87; 0;13798
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17; 2871.7; 20-OCT-2004 00:56:55; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;13798
18; 2953.4; 20-OCT-2004 00:58:17; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;13798

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23; 4011.4; 20-OCT-2004 01:15:55; Bright; 39.5; 82; 48Bet UMa ; 2.37; 10600;occ; 79; 0;13798
24; 4220.8; 20-OCT-2004 01:19:25; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;13798
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21;	4011.6;	21-OCT-2004	00:44:18;	Bright;		37.5;	82;	48Bet UMa	;	2.37;	10600;occ;	75;	0;	13812
22;	4221.2;	21-OCT-2004	00:47:48;	Bright;		37.5;	174;	52Psi UMa	;	3.00;	4400;occ;	75;	0;	13812
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/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20041024_164923_000057722031_00284_13865_1174.N1


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4; 75.7; 27-OCT-2004 23:18:35; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;13912

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5; 154.5; 27-OCT-2004 23:19:54; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;13912
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8; 847.5; 27-OCT-2004 23:31:27; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13912
9; 931.1; 27-OCT-2004 23:32:51; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;13912
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11; 1219.7; 27-OCT-2004 23:37:39; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;13912
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16; 2413.9; 27-OCT-2004 23:57:33; Bright; 37.5; 58; 21Alp And ; 2.07; 11000;occ; 75; 0;13912
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26; 4225.4; 28-OCT-2004 00:27:45; Bright; 40.0; 174; 52Psi UMa ; 3.00; 4400;occ; 80; 0;13912
27; 4687.4; 28-OCT-2004 00:35:27; Bright; 54.0; 166; 17Eps Leo ; 2.98; 6000;occ; 108; 0;13912
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3;-4006.5; 27-OCT-2004 15:28:09; Dark ; 65.5; 94; 92Alp Cet ; 2.53; 3100;occ; 131; 0;13907
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8;-3358.8; 27-OCT-2004 15:38:57; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;13907
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16;-1810.6; 27-OCT-2004 16:04:45; Bright; 39.5; 174; 52Psi UMa ; 3.00; 4400;occ; 79; 0;13907
17;-1350.4; 27-OCT-2004 16:12:25; Bright; 73.0; 166; 17Eps Leo ; 2.98; 6000;occ; 146; 0;13907
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21;-69.7; 27-OCT-2004 16:33:46; Dark ; 49.5; 65; Lam Vel ; 2.20; 4400;occ; 99; 0;13907
22; 73.8; 27-OCT-2004 16:36:10; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;13908
23; 153.9; 27-OCT-2004 16:37:30; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;13908
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26; 843.8; 27-OCT-2004 16:49:00; Dark ; 43.5; 143; Alp Hyi ; 2.86; 7200;occ; 87; 0;13908
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10;-3096.5; 27-OCT-2004 17:23:55; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;13908
11;-2916.2; 27-OCT-2004 17:26:56; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;13908
12;-2614.0; 27-OCT-2004 17:31:58; Bright; 40.0; 49; 1Alp UMi ; 1.99; 6300;occ; 80; 0;13908
13;-2395.7; 27-OCT-2004 17:35:36; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;13908
14;-2121.8; 27-OCT-2004 17:40:10; Bright; 39.0; 36; 50Alp UMa ; 1.80; 6300;occ; 78; 0;13908

```



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15;-2038.9; 27-OCT-2004 17:41:33; Bright; 36.0; 32; 77Eps UMA ; 1.76; 11000;occ; 72; 0;13908
16;-1809.6; 27-OCT-2004 17:45:22; Bright; 55.0; 174; 52Psi UMA ; 3.00; 4400;occ; 110; 0;13908
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18;-1177.1; 27-OCT-2004 17:55:55; Dark ; 255.0; 17; 78Bet Gem ; 1.16; 4500;occ; 510; 0;13908
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16; 2414.1; 28-OCT-2004 01:38:10; Bright; 38.5; 58; 21Alp And ; 2.07; 11000;occ; 77; 0;13913
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23; 3641.8; 28-OCT-2004 01:58:37; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;13913
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26; 4226.5; 28-OCT-2004 02:08:22; Bright; 40.0; 174; 52Psi UMA ; 3.00; 4400;occ; 80; 0;13913

```

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27; 4687.9; 28-OCT-2004 02:16:03; Bright; 53.5; 166; 17Eps Leo ; 2.98; 6000;occ; 107; 0;13913
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3; -240.3; 28-OCT-2004 02:34:31; Dark ; 39.0; 99; Del Cen ; 2.58; 26000;occ; 78; 0;13913
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22; 3122.4; 28-OCT-2004 03:30:34; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;13914
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12;-2392.5; 28-OCT-2004 13:42:50; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;13920
13;-2122.6; 28-OCT-2004 13:47:20; Bright; 40.0; 36; 50Alp UMa ; 1.80; 6300;occ; 80; 0;13920
14;-2036.6; 28-OCT-2004 13:48:46; Bright; 37.0; 32; 77Eps UMa ; 1.76; 11000;occ; 74; 0;13920
15;-1809.5; 28-OCT-2004 13:52:33; Bright; 41.0; 174; 52Psi UMa ; 3.00; 4400;occ; 82; 0;13920
16;-1345.7; 28-OCT-2004 14:00:17; Bright; 54.0; 166; 17Eps Leo ; 2.98; 6000;occ; 108; 0;13920
17;-1148.0; 28-OCT-2004 14:03:35; Dark ; 255.0; 17; 78Bet Gem ; 1.16; 4500;occ; 510; 0;13920
18; -593.1; 28-OCT-2004 14:12:50; Dark ; 67.5; 48; 30Alp Hya ; 1.98; 4100;occ; 135; 0;13920
19; -239.6; 28-OCT-2004 14:18:43; Dark ; 37.0; 99; Del Cen ; 2.58; 26000;occ; 74; 0;13920
20; -58.5; 28-OCT-2004 14:21:44; Dark ; 58.0; 65; Lam Vel ; 2.20; 4400;occ; 116; 0;13920
21; 156.2; 28-OCT-2004 14:25:19; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;13921

```

```

22; 358.9; 28-OCT-2004 14:28:42; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;13921
23; 487.1; 28-OCT-2004 14:30:50; Dark ; 51.0; 2; Alp Car ; -0.74; 7000;occ; 102; 0;13921
24; 849.1; 28-OCT-2004 14:36:52; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13921
25; 932.9; 28-OCT-2004 14:38:16; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;13921
26; 1128.5; 28-OCT-2004 14:41:31; Dark ; 216.5; 1; 9Alp CMa ; -1.44; 11000;occ; 433; 0;13921
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2; 933.4; 28-OCT-2004 19:40:04; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;13924
3; 1141.1; 28-OCT-2004 19:43:32; Dark ; 217.0; 1; 9Alp CMa ; -1.44; 11000;occ; 434; 0;13924
4; 1614.3; 28-OCT-2004 19:51:25; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;13924
5; 2023.1; 28-OCT-2004 19:58:14; Dark ; 72.0; 94; 92Alp Cet ; 2.53; 3100;occ; 144; 0;13924
6; 2183.4; 28-OCT-2004 20:00:54; Bright; 38.5; 140; 88Gam Peg ; 2.83; 26000;occ; 77; 0;13924
7; 2278.4; 28-OCT-2004 20:02:29; Bright; 41.0; 105; 6Bet Ari ; 2.64; 8900;occ; 82; 0;13924
8; 2415.5; 28-OCT-2004 20:04:46; Bright; 38.0; 58; 21Alp And ; 2.07; 11000;occ; 76; 0;13924
9; 2514.7; 28-OCT-2004 20:06:25; Bright; 39.0; 53; 43Bet And ; 2.05; 3300;occ; 78; 0;13924
10; 2671.6; 28-OCT-2004 20:09:02; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;13924
11; 2768.7; 28-OCT-2004 20:10:39; Bright; 49.0; 79; 26Bet Per ; 2.31; 13100;occ; 98; 0;13924
12; 2912.3; 28-OCT-2004 20:13:03; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;13924
13; 3126.6; 28-OCT-2004 20:16:37; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;13924
14; 3421.7; 28-OCT-2004 20:21:32; Bright; 39.0; 49; 1Alp UMi ; 1.99; 6300;occ; 78; 0;13924
15; 3643.4; 28-OCT-2004 20:25:14; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;13924
16; 3912.4; 28-OCT-2004 20:29:43; Bright; 42.0; 36; 50Alp UMa ; 1.80; 6300;occ; 84; 0;13924
17; 3999.8; 28-OCT-2004 20:31:10; Bright; 52.0; 32; 77Eps UMa ; 1.76; 11000;occ; 104; 0;13924
18; 4227.0; 28-OCT-2004 20:34:58; Bright; 39.0; 174; 52Psi UMa ; 3.00; 4400;occ; 78; 0;13924
19; 4691.9; 28-OCT-2004 20:42:43; Bright; 53.0; 166; 17Eps Leo ; 2.98; 6000;occ; 106; 0;13924
20; 4899.2; 28-OCT-2004 20:46:10; Dark ; 135.0; 17; 78Bet Gem ; 1.16; 4500;occ; 270; 0;13924
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2; -588.3; 28-OCT-2004 20:55:18; Dark ; 65.0; 48; 30Alp Hya ; 1.98; 4100;occ; 130; 0;13924
3; -239.4; 28-OCT-2004 21:01:07; Dark ; 40.0; 99; Del Cen ; 2.58; 26000;occ; 80; 0;13924
4; -56.6; 28-OCT-2004 21:04:10; Dark ; 53.0; 65; Lam Vel ; 2.20; 4400;occ; 106; 0;13924
5; 155.6; 28-OCT-2004 21:07:42; Dark ; 50.5; 34; Gam2Vel ; 1.79; 23000;occ; 101; 0;13925
6; 309.3; 28-OCT-2004 21:10:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13925
7; 489.7; 28-OCT-2004 21:13:16; Dark ; 61.5; 2; Alp Car ; -0.74; 7000;occ; 123; 0;13925
8; 592.6; 28-OCT-2004 21:14:59; Dark ; 102.5; 179; 240mi2CMA ; 3.03; 24000;occ; 205; 0;13925
9; 849.2; 28-OCT-2004 21:19:16; Dark ; 41.5; 143; Alp Hyi ; 2.86; 7200;occ; 83; 0;13925
10; 933.6; 28-OCT-2004 21:20:40; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;13925
11; 1122.5; 28-OCT-2004 21:23:49; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;13925
12; 1220.7; 28-OCT-2004 21:25:27; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;13925
13; 1614.4; 28-OCT-2004 21:32:01; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;13925
14; 2022.4; 28-OCT-2004 21:38:49; Dark ; 70.5; 94; 92Alp Cet ; 2.53; 3100;occ; 141; 0;13925
15; 2184.1; 28-OCT-2004 21:41:31; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;13925
16; 2278.2; 28-OCT-2004 21:43:05; Bright; 41.5; 105; 6Bet Ari ; 2.64; 8900;occ; 83; 0;13925
17; 2415.6; 28-OCT-2004 21:45:22; Bright; 39.0; 58; 21Alp And ; 2.07; 11000;occ; 78; 0;13925
18; 2514.7; 28-OCT-2004 21:47:01; Bright; 40.0; 53; 43Bet And ; 2.05; 3300;occ; 80; 0;13925
19; 2670.7; 28-OCT-2004 21:49:37; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;13925
20; 2767.9; 28-OCT-2004 21:51:15; Bright; 49.0; 79; 26Bet Per ; 2.31; 13100;occ; 98; 0;13925
21; 2912.7; 28-OCT-2004 21:53:39; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;13925
22; 3127.6; 28-OCT-2004 21:57:14; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;13925
23; 3421.1; 28-OCT-2004 22:02:08; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;13925
24; 3644.1; 28-OCT-2004 22:05:51; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;13925
25; 3912.2; 28-OCT-2004 22:10:19; Bright; 42.5; 36; 50Alp UMa ; 1.80; 6300;occ; 85; 0;13925
26; 4000.0; 28-OCT-2004 22:11:47; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000;occ; 77; 0;13925
27; 4226.3; 28-OCT-2004 22:15:33; Bright; 40.5; 174; 52Psi UMa ; 3.00; 4400;occ; 81; 0;13925
28; 4628.1; 28-OCT-2004 22:22:15; Bright; 221.5; 24; 66Alp Gem ; 1.58; 10200;occ; 443; 0;13925
29; 4902.1; 28-OCT-2004 22:26:49; Dark ; 254.5; 17; 78Bet Gem ; 1.16; 4500;occ; 509; 0;13925
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20041028_223556_000057462031_00344_13925_0979.N1
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2; -239.5; 28-OCT-2004 22:41:43; Dark ; 39.0; 99; Del Cen ; 2.58; 26000;occ; 78; 0;13925
3; -108.1; 28-OCT-2004 22:43:54; Dark ; 39.0; 129; Del Cru ; 2.79; 26000;occ; 78; 0;13925
4; 156.5; 28-OCT-2004 22:48:19; Dark ; 49.0; 34; Gam2Vel ; 1.79; 23000;occ; 98; 0;13926
5; 310.2; 28-OCT-2004 22:50:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13926
6; 490.5; 28-OCT-2004 22:53:53; Dark ; 52.5; 2; Alp Car ; -0.74; 7000;occ; 105; 0;13926
7; 595.2; 28-OCT-2004 22:55:38; Dark ; 99.5; 179; 240mi2CMA ; 3.03; 24000;occ; 199; 0;13926
8; 850.0; 28-OCT-2004 22:59:52; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;13926
9; 934.2; 28-OCT-2004 23:01:17; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;13926
10; 1124.7; 28-OCT-2004 23:04:27; Dark ; 46.5; 157; The1Eri ; 2.91; 9300;occ; 93; 0;13926
11; 1221.1; 28-OCT-2004 23:06:04; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;13926

```

12; 1614.6; 28-OCT-2004 23:12:37; Dark ; 47.0; 52; 16Bet Cet ; 2.04; 4500;occ; 94; 0;13926
 13; 2022.1; 28-OCT-2004 23:19:25; Dark ; 71.0; 94; 92Alp Cet ; 2.53; 3100;occ; 142; 0;13926
 14; 2184.3; 28-OCT-2004 23:22:07; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;13926
 15; 2278.6; 28-OCT-2004 23:23:41; Bright; 40.5; 105; 6Bet Ari ; 2.64; 8900;occ; 81; 0;13926
 16; 2414.0; 28-OCT-2004 23:25:56; Bright; 41.0; 58; 21Alp And ; 2.07; 11000;occ; 82; 0;13926
 17; 2514.4; 28-OCT-2004 23:27:37; Bright; 40.0; 53; 43Bet And ; 2.05; 3300;occ; 80; 0;13926
 18; 2670.2; 28-OCT-2004 23:30:13; Bright; 44.5; 73; 57Gam1And ; 2.26; 13100;occ; 89; 0;13926
 19; 2766.7; 28-OCT-2004 23:31:49; Bright; 48.0; 79; 26Bet Per ; 2.31; 13100;occ; 96; 0;13926
 20; 2911.9; 28-OCT-2004 23:34:14; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;13926
 21; 3128.0; 28-OCT-2004 23:37:50; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;13926
 22; 3419.3; 28-OCT-2004 23:42:42; Bright; 41.0; 49; 1Alp UMi ; 1.99; 6300;occ; 82; 0;13926
 23; 3644.2; 28-OCT-2004 23:46:27; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;13926
 24; 3912.9; 28-OCT-2004 23:50:55; Bright; 41.5; 36; 50Alp UMa ; 1.80; 6300;occ; 83; 0;13926
 25; 4000.0; 28-OCT-2004 23:52:22; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000;occ; 77; 0;13926
 26; 4226.4; 28-OCT-2004 23:56:09; Bright; 39.5; 174; 52Psi UMa ; 3.00; 4400;occ; 79; 0;13926
 27; 4629.1; 29-OCT-2004 00:02:51; Bright; 254.5; 24; 66Alp Gem ; 1.58; 10200;occ; 509; 0;13926
 28; 4905.5; 29-OCT-2004 00:07:28; Dark ; 254.5; 17; 78Bet Gem ; 1.16; 4500;occ; 509; 0;13926

/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20041028_144500_000059112031_00340_13921_1206.N1

1; -4699.0; 28-OCT-2004 14:45:00; Dark ; 217.0; 1; 9Alp CMA ; -1.44; 11000;occ; 434; 417;13921
 2; -4423.9; 28-OCT-2004 14:49:35; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;13921
 3; -4012.4; 28-OCT-2004 14:56:26; Dark ; 64.0; 94; 92Alp Cet ; 2.53; 3100;occ; 128; 0;13921
 4; -3852.5; 28-OCT-2004 14:59:06; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;13921
 5; -3756.8; 28-OCT-2004 15:00:42; Bright; 42.5; 105; 6Bet Ari ; 2.64; 8900;occ; 85; 0;13921
 6; -3620.9; 28-OCT-2004 15:02:58; Bright; 39.5; 58; 21Alp And ; 2.07; 11000;occ; 79; 0;13921
 7; -3520.9; 28-OCT-2004 15:04:38; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;13921
 8; -3363.8; 28-OCT-2004 15:07:15; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;13921
 9; -3265.6; 28-OCT-2004 15:08:53; Bright; 48.5; 79; 26Bet Per ; 2.31; 13100;occ; 97; 0;13921
 10; -3123.3; 28-OCT-2004 15:11:15; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;13921
 11; -2910.6; 28-OCT-2004 15:14:48; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;13921
 12; -2613.7; 28-OCT-2004 15:19:45; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;13921
 13; -2392.5; 28-OCT-2004 15:23:26; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;13921
 14; -2122.6; 28-OCT-2004 15:27:56; Bright; 43.5; 36; 50Alp UMa ; 1.80; 6300;occ; 87; 0;13921
 15; -2036.6; 28-OCT-2004 15:29:22; Bright; 39.0; 32; 77Eps UMa ; 1.76; 11000;occ; 78; 0;13921
 16; -1809.3; 28-OCT-2004 15:33:09; Bright; 39.0; 174; 52Psi UMa ; 3.00; 4400;occ; 78; 0;13921
 17; -1345.5; 28-OCT-2004 15:40:53; Bright; 53.0; 166; 17Eps Leo ; 2.98; 6000;occ; 106; 0;13921
 18; -1145.2; 28-OCT-2004 15:44:14; Dark ; 255.0; 17; 78Bet Gem ; 1.16; 4500;occ; 510; 0;13921
 19; -591.6; 28-OCT-2004 15:53:27; Dark ; 70.0; 48; 30Alp Hya ; 1.98; 4100;occ; 140; 0;13921
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 21; -57.5; 28-OCT-2004 16:02:21; Dark ; 56.5; 65; Lam Vel ; 2.20; 4400;occ; 113; 0;13921
 22; 156.3; 28-OCT-2004 16:05:55; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;13922
 23; 359.6; 28-OCT-2004 16:09:18; Dark ; 62.0; 117; Pi Pup ; 2.71; 3800;occ; 124; 0;13922
 24; 487.4; 28-OCT-2004 16:11:26; Dark ; 51.5; 2; Alp Car ; -0.74; 7000;occ; 103; 0;13922
 25; 846.8; 28-OCT-2004 16:17:26; Dark ; 41.5; 143; Alp Hyi ; 2.86; 7200;occ; 83; 0;13922
 26; 933.4; 28-OCT-2004 16:18:52; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;13922
 27; 1132.4; 28-OCT-2004 16:22:11; Dark ; 80.5; 1; 9Alp CMA ; -1.44; 11000;occ; 161; 0;13922

/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20041028_162348_000057912031_00341_13922_1207.N1

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 2; -4423.8; 28-OCT-2004 16:30:11; Dark ; 48.5; 52; 16Bet Cet ; 2.04; 4500;occ; 97; 0;13922
 3; -4012.4; 28-OCT-2004 16:37:02; Dark ; 72.0; 94; 92Alp Cet ; 2.53; 3100;occ; 144; 0;13922
 4; -3852.0; 28-OCT-2004 16:39:43; Bright; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;13922
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 6; -3620.9; 28-OCT-2004 16:43:34; Bright; 39.0; 58; 21Alp And ; 2.07; 11000;occ; 78; 0;13922
 7; -3521.1; 28-OCT-2004 16:45:14; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;13922
 8; -3364.2; 28-OCT-2004 16:47:51; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;13922
 9; -3266.3; 28-OCT-2004 16:49:28; Bright; 47.5; 79; 26Bet Per ; 2.31; 13100;occ; 95; 0;13922
 10; -3123.1; 28-OCT-2004 16:51:52; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;13922
 11; -2909.3; 28-OCT-2004 16:55:25; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;13922
 12; -2614.1; 28-OCT-2004 17:00:21; Bright; 39.0; 49; 1Alp UMi ; 1.99; 6300;occ; 78; 0;13922
 13; -2392.0; 28-OCT-2004 17:04:03; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;13922
 14; -2123.3; 28-OCT-2004 17:08:31; Bright; 40.0; 36; 50Alp UMa ; 1.80; 6300;occ; 80; 0;13922
 15; -2037.0; 28-OCT-2004 17:09:58; Bright; 38.0; 32; 77Eps UMa ; 1.76; 11000;occ; 76; 0;13922
 16; -1809.5; 28-OCT-2004 17:13:45; Bright; 44.0; 174; 52Psi UMa ; 3.00; 4400;occ; 88; 0;13922
 17; -1344.9; 28-OCT-2004 17:21:30; Bright; 53.0; 166; 17Eps Leo ; 2.98; 6000;occ; 106; 0;13922
 18; -1142.4; 28-OCT-2004 17:24:52; Dark ; 255.0; 17; 78Bet Gem ; 1.16; 4500;occ; 510; 0;13922
 19; -590.4; 28-OCT-2004 17:34:04; Dark ; 62.5; 48; 30Alp Hya ; 1.98; 4100;occ; 125; 0;13922
 20; -239.4; 28-OCT-2004 17:39:55; Dark ; 37.5; 99; Del Cen ; 2.58; 26000;occ; 75; 0;13922
 21; -57.2; 28-OCT-2004 17:42:57; Dark ; 53.5; 65; Lam Vel ; 2.20; 4400;occ; 107; 0;13922
 22; 156.5; 28-OCT-2004 17:46:31; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;13923


```

23; 360.9; 28-OCT-2004 17:49:56; Dark ; 59.5; 117; Pi Pup ; 2.71; 3800;occ; 119; 0;13923
24; 489.2; 28-OCT-2004 17:52:04; Dark ; 50.0; 2; Alp Car ; -0.74; 7000;occ; 100; 0;13923
25; 849.3; 28-OCT-2004 17:58:04; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;13923
26; 933.2; 28-OCT-2004 17:59:28; Dark ; 51.5; 9; Alp Eri ; 0.45; 24000;occ; 103; 0;13923
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL_0PNPDK20041028_180251_000058762031_00342_13923_1208.N1
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2; -4423.6; 28-OCT-2004 18:10:47; Dark ; 48.5; 52; 16Bet Cet ; 2.04; 4500;occ; 97; 0;13923
3; -4013.2; 28-OCT-2004 18:17:38; Dark ; 68.5; 94; 92Alp Cet ; 2.53; 3100;occ; 137; 0;13923
4; -3852.1; 28-OCT-2004 18:20:19; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;13923
5; -3756.6; 28-OCT-2004 18:21:54; Bright; 42.0; 105; 6Bet Ari ; 2.64; 8900;occ; 84; 0;13923
6; -3620.1; 28-OCT-2004 18:24:11; Bright; 39.0; 58; 21Alp And ; 2.07; 11000;occ; 78; 0;13923
7; -3520.8; 28-OCT-2004 18:25:50; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;13923
8; -3363.9; 28-OCT-2004 18:28:27; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;13923
9; -3266.5; 28-OCT-2004 18:30:04; Bright; 47.0; 79; 26Bet Per ; 2.31; 13100;occ; 94; 0;13923
10; -3123.4; 28-OCT-2004 18:32:27; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;13923
11; -2909.2; 28-OCT-2004 18:36:01; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;13923
12; -2614.1; 28-OCT-2004 18:40:57; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;13923
13; -2391.9; 28-OCT-2004 18:44:39; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;13923
14; -2123.3; 28-OCT-2004 18:49:07; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;13923
15; -2036.9; 28-OCT-2004 18:50:34; Bright; 39.0; 32; 77Eps UMa ; 1.76; 11000;occ; 78; 0;13923
16; -1809.3; 28-OCT-2004 18:54:21; Bright; 53.5; 174; 52Psi UMa ; 3.00; 4400;occ; 107; 0;13923
17; -1344.8; 28-OCT-2004 19:02:06; Bright; 52.5; 166; 17Eps Leo ; 2.98; 6000;occ; 105; 0;13923
18; -1139.7; 28-OCT-2004 19:05:31; Dark ; 255.0; 17; 78Bet Gem ; 1.16; 4500;occ; 510; 0;13923
19; -589.6; 28-OCT-2004 19:14:41; Dark ; 67.5; 48; 30Alp Hya ; 1.98; 4100;occ; 135; 0;13923
20; -239.6; 28-OCT-2004 19:20:31; Dark ; 39.0; 99; Del Cen ; 2.58; 26000;occ; 78; 0;13923
21; -56.8; 28-OCT-2004 19:23:34; Dark ; 51.5; 65; Lam Vel ; 2.20; 4400;occ; 103; 0;13923
22; 156.6; 28-OCT-2004 19:27:07; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;13924
23; 362.3; 28-OCT-2004 19:30:33; Dark ; 69.5; 117; Pi Pup ; 2.71; 3800;occ; 139; 0;13924
24; 489.6; 28-OCT-2004 19:32:40; Dark ; 51.0; 2; Alp Car ; -0.74; 7000;occ; 102; 0;13924
25; 848.9; 28-OCT-2004 19:38:40; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;13924
26; 933.4; 28-OCT-2004 19:40:04; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;13924
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1; -585.1; 29-OCT-2004 00:16:33; Dark ; 69.5; 48; 30Alp Hya ; 1.98; 4100;occ; 139; 0;13926
2; 159.3; 29-OCT-2004 00:28:58; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;13927
3; 311.2; 29-OCT-2004 00:31:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13927
4; 489.5; 29-OCT-2004 00:34:28; Dark ; 53.5; 2; Alp Car ; -0.74; 7000;occ; 107; 0;13927
5; 597.3; 29-OCT-2004 00:36:16; Dark ; 99.5; 179; 240mi2CMA ; 3.03; 24000;occ; 199; 0;13927
6; 850.7; 29-OCT-2004 00:40:29; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;13927
7; 934.0; 29-OCT-2004 00:41:52; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;13927
8; 1124.9; 29-OCT-2004 00:45:03; Dark ; 47.5; 157; The1Eri ; 2.91; 9300;occ; 95; 0;13927
9; 1221.2; 29-OCT-2004 00:46:40; Dark ; 40.0; 84; Alp Phe ; 2.40; 4500;occ; 80; 0;13927
10; 1615.4; 29-OCT-2004 00:53:14; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;13927
11; 2021.3; 29-OCT-2004 01:00:00; Dark ; 69.5; 94; 92Alp Cet ; 2.53; 3100;occ; 139; 0;13927
12; 2184.9; 29-OCT-2004 01:02:43; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;13927
13; 2277.8; 29-OCT-2004 01:04:16; Bright; 42.5; 105; 6Bet Ari ; 2.64; 8900;occ; 85; 0;13927
14; 2415.9; 29-OCT-2004 01:06:34; Bright; 39.0; 58; 21Alp And ; 2.07; 11000;occ; 78; 0;13927
15; 2513.8; 29-OCT-2004 01:08:12; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;13927
16; 2670.6; 29-OCT-2004 01:10:49; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;13927
17; 2766.6; 29-OCT-2004 01:12:25; Bright; 47.5; 79; 26Bet Per ; 2.31; 13100;occ; 95; 0;13927
18; 2912.4; 29-OCT-2004 01:14:51; Bright; 37.0; 74; 11Bet Cas ; 2.27; 6600;occ; 74; 0;13927
19; 3128.8; 29-OCT-2004 01:18:27; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;13927
20; 3421.6; 29-OCT-2004 01:23:20; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;13927
21; 3643.7; 29-OCT-2004 01:27:02; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;13927
22; 3913.2; 29-OCT-2004 01:31:32; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;13927
23; 3999.5; 29-OCT-2004 01:32:58; Bright; 52.0; 32; 77Eps UMa ; 1.76; 11000;occ; 104; 0;13927
24; 4226.4; 29-OCT-2004 01:36:45; Bright; 38.5; 174; 52Psi UMa ; 3.00; 4400;occ; 77; 0;13927
25; 4630.1; 29-OCT-2004 01:43:28; Bright; 231.0; 24; 66Alp Gem ; 1.58; 10200;occ; 462; 0;13927
26; 4908.9; 29-OCT-2004 01:48:07; Dark ; 254.5; 17; 78Bet Gem ; 1.16; 4500;occ; 509; 0;13927
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2; -2123.7; 29-OCT-2004 06:33:18; Bright; 43.5; 36; 50Alp UMa ; 1.80; 6300;occ; 87; 0;13930
3; -2035.8; 29-OCT-2004 06:34:46; Bright; 36.5; 32; 77Eps UMa ; 1.76; 11000;occ; 73; 0;13930
4; -1809.4; 29-OCT-2004 06:38:33; Bright; 41.0; 174; 52Psi UMa ; 3.00; 4400;occ; 82; 0;13930
5; -1403.8; 29-OCT-2004 06:45:18; Bright; 255.0; 24; 66Alp Gem ; 1.58; 10200;occ; 510; 0;13930
6; -1117.5; 29-OCT-2004 06:50:05; Dark ; 255.0; 17; 78Bet Gem ; 1.16; 4500;occ; 510; 0;13930
7; -581.0; 29-OCT-2004 06:59:01; Dark ; 78.5; 48; 30Alp Hya ; 1.98; 4100;occ; 157; 0;13930
8; -238.7; 29-OCT-2004 07:04:43; Dark ; 39.5; 99; Del Cen ; 2.58; 26000;occ; 79; 0;13930
9; -50.6; 29-OCT-2004 07:07:51; Dark ; 51.5; 65; Lam Vel ; 2.20; 4400;occ; 103; 0;13930

```

```

10; 157.8; 29-OCT-2004 07:11:20; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;13931
11; 372.0; 29-OCT-2004 07:14:54; Dark ; 68.0; 117; Pi Pup ; 2.71; 3800;occ; 136; 0;13931
12; 495.4; 29-OCT-2004 07:16:57; Dark ; 51.5; 2; Alp Car ;-0.74; 7000;occ; 103; 0;13931
13; 762.2; 29-OCT-2004 07:21:24; Dark ; 79.5; 177; 1Zet CMA ; 3.02; 26000;occ; 159; 0;13931
14; 935.5; 29-OCT-2004 07:24:18; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;13931
15; 1170.5; 29-OCT-2004 07:28:13; Dark ; 216.5; 1; 9Alp CMA ;-1.44; 11000;occ; 433; 0;13931
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20041029_073539_000060812031_00350_13931_1210.N1
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 2;-4015.6; 29-OCT-2004 07:42:22; Dark ; 61.0; 94; 92Alp Cet ; 2.53; 3100;occ; 122; 0;13931
 3;-3850.2; 29-OCT-2004 07:45:08; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;13931
 4;-3757.4; 29-OCT-2004 07:46:41; Bright; 41.5; 105; 6Bet Ari ; 2.64; 8900;occ; 83; 0;13931
 5;-3617.5; 29-OCT-2004 07:49:00; Bright; 37.0; 58; 21Alp And ; 2.07; 11000;occ; 74; 0;13931
 6;-3520.7; 29-OCT-2004 07:50:37; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;13931
 7;-3365.9; 29-OCT-2004 07:53:12; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;13931
 8;-3271.4; 29-OCT-2004 07:54:47; Bright; 48.0; 79; 26Bet Per ; 2.31; 13100;occ; 96; 0;13931
 9;-3169.8; 29-OCT-2004 07:56:28; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;13931
10;-3096.8; 29-OCT-2004 07:57:41; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;13931
11;-2905.3; 29-OCT-2004 08:00:53; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;13931
12;-2613.7; 29-OCT-2004 08:05:44; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;13931
13;-2390.3; 29-OCT-2004 08:09:28; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;13931
14;-2122.8; 29-OCT-2004 08:13:55; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;13931
15;-2034.8; 29-OCT-2004 08:15:23; Bright; 38.0; 32; 77Eps UMa ; 1.76; 11000;occ; 76; 0;13931
16;-1809.3; 29-OCT-2004 08:19:09; Bright; 38.0; 174; 52Psi UMa ; 3.00; 4400;occ; 76; 0;13931
17;-1403.2; 29-OCT-2004 08:25:55; Bright; 255.0; 24; 66Alp Gem ; 1.58; 10200;occ; 510; 0;13931
18;-1113.9; 29-OCT-2004 08:30:44; Dark ; 255.0; 17; 78Bet Gem ; 1.16; 4500;occ; 510; 0;13931
19; -580.1; 29-OCT-2004 08:39:38; Dark ; 76.5; 48; 30Alp Hya ; 1.98; 4100;occ; 153; 0;13931
20; -238.7; 29-OCT-2004 08:45:19; Dark ; 40.0; 99; Del Cen ; 2.58; 26000;occ; 80; 0;13931
21; -49.8; 29-OCT-2004 08:48:28; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;13931
22; 158.0; 29-OCT-2004 08:51:56; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;13932
23; 373.3; 29-OCT-2004 08:55:31; Dark ; 63.5; 117; Pi Pup ; 2.71; 3800;occ; 127; 0;13932
24; 496.2; 29-OCT-2004 08:57:34; Dark ; 48.5; 2; Alp Car ;-0.74; 7000;occ; 97; 0;13932
25; 763.8; 29-OCT-2004 09:02:02; Dark ; 77.5; 177; 1Zet CMA ; 3.02; 26000;occ; 155; 0;13932
26; 935.7; 29-OCT-2004 09:04:54; Dark ; 47.5; 9; Alp Eri ; 0.45; 24000;occ; 95; 0;13932
27; 1174.4; 29-OCT-2004 09:08:52; Dark ; 217.0; 1; 9Alp CMA ;-1.44; 11000;occ; 434; 0;13932
28; 1616.9; 29-OCT-2004 09:16:15; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;13932
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20041029_092257_000056732031_00351_13932_1211.N1
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 2;-3850.0; 29-OCT-2004 09:25:44; Bright; 38.5; 140; 88Gam Peg ; 2.83; 26000;occ; 77; 0;13932
 3;-3757.7; 29-OCT-2004 09:27:16; Bright; 41.5; 105; 6Bet Ari ; 2.64; 8900;occ; 83; 0;13932
 4;-3617.4; 29-OCT-2004 09:29:36; Bright; 38.0; 58; 21Alp And ; 2.07; 11000;occ; 76; 0;13932
 5;-3520.8; 29-OCT-2004 09:31:13; Bright; 37.5; 53; 43Bet And ; 2.05; 3300;occ; 75; 0;13932
 6;-3366.2; 29-OCT-2004 09:33:48; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;13932
 7;-3272.1; 29-OCT-2004 09:35:22; Bright; 48.5; 79; 26Bet Per ; 2.31; 13100;occ; 97; 0;13932
 8;-3169.8; 29-OCT-2004 09:37:04; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;13932
 9;-3096.8; 29-OCT-2004 09:38:17; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;13932
10;-2905.1; 29-OCT-2004 09:41:29; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;13932
11;-2613.8; 29-OCT-2004 09:46:20; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;13932
12;-2390.1; 29-OCT-2004 09:50:04; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;13932
13;-2122.6; 29-OCT-2004 09:54:31; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;13932
14;-2034.6; 29-OCT-2004 09:55:59; Bright; 38.0; 32; 77Eps UMa ; 1.76; 11000;occ; 76; 0;13932
15;-1809.2; 29-OCT-2004 09:59:45; Bright; 40.0; 174; 52Psi UMa ; 3.00; 4400;occ; 80; 0;13932
16;-1402.3; 29-OCT-2004 10:06:32; Bright; 255.0; 24; 66Alp Gem ; 1.58; 10200;occ; 510; 0;13932
17;-1110.5; 29-OCT-2004 10:11:23; Dark ; 255.0; 17; 78Bet Gem ; 1.16; 4500;occ; 510; 0;13932
18; -578.9; 29-OCT-2004 10:20:15; Dark ; 75.0; 48; 30Alp Hya ; 1.98; 4100;occ; 150; 0;13932
19; -238.4; 29-OCT-2004 10:25:55; Dark ; 38.0; 99; Del Cen ; 2.58; 26000;occ; 76; 0;13932
20; -49.0; 29-OCT-2004 10:29:05; Dark ; 54.0; 65; Lam Vel ; 2.20; 4400;occ; 108; 0;13932
21; 158.2; 29-OCT-2004 10:32:32; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;13933
22; 375.4; 29-OCT-2004 10:36:09; Dark ; 62.5; 117; Pi Pup ; 2.71; 3800;occ; 125; 0;13933
23; 497.3; 29-OCT-2004 10:38:11; Dark ; 49.5; 2; Alp Car ;-0.74; 7000;occ; 99; 0;13933
24; 767.7; 29-OCT-2004 10:42:42; Dark ; 78.0; 177; 1Zet CMA ; 3.02; 26000;occ; 156; 0;13933
25; 935.9; 29-OCT-2004 10:45:30; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;13933
26; 1178.6; 29-OCT-2004 10:49:32; Dark ; 217.0; 1; 9Alp CMA ;-1.44; 11000;occ; 434; 0;13933
27; 1616.9; 29-OCT-2004 10:56:51; Dark ; 41.0; 52; 16Bet Cet ; 2.04; 4500;occ; 82; 0;13933
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 2;-4016.7; 29-OCT-2004 11:03:33; Dark ; 65.0; 94; 92Alp Cet ; 2.53; 3100;occ; 130; 0;13933
 3;-3849.6; 29-OCT-2004 11:06:20; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;13933
 4;-3757.9; 29-OCT-2004 11:07:52; Bright; 40.0; 105; 6Bet Ari ; 2.64; 8900;occ; 80; 0;13933

```

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5;-3617.3; 29-OCT-2004 11:10:12; Bright; 38.0; 58; 21Alp And ; 2.07; 11000;occ; 76; 0;13933
6;-3521.0; 29-OCT-2004 11:11:49; Bright; 37.5; 53; 43Bet And ; 2.05; 3300;occ; 75; 0;13933
7;-3366.9; 29-OCT-2004 11:14:23; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;13933
8;-3273.1; 29-OCT-2004 11:15:57; Bright; 47.5; 79; 26Bet Per ; 2.31; 13100;occ; 95; 0;13933
9;-3170.0; 29-OCT-2004 11:17:40; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;13933
10;-3096.8; 29-OCT-2004 11:18:53; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;13933
11;-2904.3; 29-OCT-2004 11:22:05; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;13933
12;-2614.1; 29-OCT-2004 11:26:56; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;13933
13;-2389.9; 29-OCT-2004 11:30:40; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;13933
14;-2122.9; 29-OCT-2004 11:35:07; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;13933
15;-2034.8; 29-OCT-2004 11:36:35; Bright; 37.5; 32; 77Eps UMa ; 1.76; 11000;occ; 75; 0;13933
16;-1808.6; 29-OCT-2004 11:40:21; Bright; 40.0; 174; 52Psi UMa ; 3.00; 4400;occ; 80; 0;13933
17;-1401.6; 29-OCT-2004 11:47:08; Bright; 255.0; 24; 66Alp Gem ; 1.58; 10200;occ; 510; 0;13933
18;-1106.7; 29-OCT-2004 11:52:03; Dark ; 255.0; 17; 78Bet Gem ; 1.16; 4500;occ; 510; 0;13933
19;-577.0; 29-OCT-2004 12:00:53; Dark ; 67.0; 48; 30Alp Hya ; 1.98; 4100;occ; 134; 0;13933
20;-238.3; 29-OCT-2004 12:06:31; Dark ; 38.5; 99; Del Cen ; 2.58; 26000;occ; 77; 0;13933
21;-48.6; 29-OCT-2004 12:09:41; Dark ; 56.5; 65; Lam Vel ; 2.20; 4400;occ; 113; 0;13933
22; 158.4; 29-OCT-2004 12:13:08; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;13934
23; 376.6; 29-OCT-2004 12:16:46; Dark ; 77.0; 117; Pi Pup ; 2.71; 3800;occ; 154; 0;13934
24; 497.8; 29-OCT-2004 12:18:48; Dark ; 53.0; 2; Alp Car ;-0.74; 7000;occ; 106; 0;13934
25; 769.0; 29-OCT-2004 12:23:19; Dark ; 76.5; 177; 1Zet CMa ; 3.02; 26000;occ; 153; 0;13934
26; 935.5; 29-OCT-2004 12:26:05; Dark ; 47.0; 9; Alp Eri ; 0.45; 24000;occ; 94; 0;13934
27; 1182.7; 29-OCT-2004 12:30:12; Dark ; 216.5; 1; 9Alp CMa ;-1.44; 11000;occ; 433; 0;13934
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2;-4017.6; 29-OCT-2004 12:44:08; Dark ; 65.5; 94; 92Alp Cet ; 2.53; 3100;occ; 131; 0;13934
3;-3850.0; 29-OCT-2004 12:46:56; Bright; 38.5; 140; 88Gam Peg ; 2.83; 26000;occ; 77; 0;13934
4;-3758.2; 29-OCT-2004 12:48:27; Bright; 41.0; 105; 6Bet Ari ; 2.64; 8900;occ; 82; 0;13934
5;-3617.3; 29-OCT-2004 12:50:48; Bright; 37.5; 58; 21Alp And ; 2.07; 11000;occ; 75; 0;13934
6;-3521.2; 29-OCT-2004 12:52:24; Bright; 37.0; 53; 43Bet And ; 2.05; 3300;occ; 74; 0;13934
7;-3367.1; 29-OCT-2004 12:54:58; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;13934
8;-3273.7; 29-OCT-2004 12:56:32; Bright; 47.0; 79; 26Bet Per ; 2.31; 13100;occ; 94; 0;13934
9;-3170.0; 29-OCT-2004 12:58:16; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;13934
10;-3097.1; 29-OCT-2004 12:59:28; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;13934
11;-2904.0; 29-OCT-2004 13:02:42; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;13934
12;-2614.2; 29-OCT-2004 13:07:31; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;13934
13;-2389.8; 29-OCT-2004 13:11:16; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;13934
14;-2123.0; 29-OCT-2004 13:15:43; Bright; 41.5; 36; 50Alp UMa ; 1.80; 6300;occ; 83; 0;13934
15;-2034.7; 29-OCT-2004 13:17:11; Bright; 36.0; 32; 77Eps UMa ; 1.76; 11000;occ; 72; 0;13934
16;-1808.8; 29-OCT-2004 13:20:57; Bright; 39.5; 174; 52Psi UMa ; 3.00; 4400;occ; 79; 0;13934
17;-1400.7; 29-OCT-2004 13:27:45; Bright; 255.0; 24; 66Alp Gem ; 1.58; 10200;occ; 510; 0;13934
18;-1103.1; 29-OCT-2004 13:32:43; Dark ; 255.0; 17; 78Bet Gem ; 1.16; 4500;occ; 510; 0;13934
19;-575.8; 29-OCT-2004 13:41:30; Dark ; 66.0; 48; 30Alp Hya ; 1.98; 4100;occ; 132; 0;13934
20;-238.7; 29-OCT-2004 13:47:07; Dark ; 40.0; 99; Del Cen ; 2.58; 26000;occ; 80; 0;13934
21;-47.3; 29-OCT-2004 13:50:18; Dark ; 52.0; 65; Lam Vel ; 2.20; 4400;occ; 104; 0;13934
22; 87.4; 29-OCT-2004 13:52:33; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;13935
23; 197.7; 29-OCT-2004 13:54:23; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;13935
24; 318.7; 29-OCT-2004 13:56:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13935
25; 498.6; 29-OCT-2004 13:59:24; Dark ; 52.0; 2; Alp Car ;-0.74; 7000;occ; 104; 0;13935
26; 770.7; 29-OCT-2004 14:03:56; Dark ; 76.0; 177; 1Zet CMa ; 3.02; 26000;occ; 152; 0;13935
27; 935.7; 29-OCT-2004 14:06:41; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;13935
28; 1129.0; 29-OCT-2004 14:09:55; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;13935
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12; 493.9; 29-OCT-2004 03:55:44; Dark ; 50.0; 2; Alp Car ; -0.74; 7000;occ; 100; 0;13929
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19; 2020.1; 29-OCT-2004 04:21:10; Dark ; 69.0; 94; 92Alp Cet ; 2.53; 3100;occ; 138; 0;13929
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24; 2670.1; 29-OCT-2004 04:32:00; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;13929
25; 2765.4; 29-OCT-2004 04:33:35; Bright; 47.0; 79; 26Bet Per ; 2.31; 13100;occ; 94; 0;13929
26; 2912.7; 29-OCT-2004 04:36:03; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;13929
27; 3129.8; 29-OCT-2004 04:39:40; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;13929
28; 3421.3; 29-OCT-2004 04:44:31; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;13929

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```

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24; -237.8; 29-OCT-2004 20:29:32; Dark ; 40.0; 99; Del Cen ; 2.58; 26000;occ; 80; 0;13938
25; -107.4; 29-OCT-2004 20:31:42; Dark ; 37.5; 129; Del Cru ; 2.79; 26000;occ; 75; 0;13938
26; 88.7; 29-OCT-2004 20:34:58; Dark ; 43.0; 71; Iot Car ; 2.25; 7700;occ; 86; 0;13939
27; 198.9; 29-OCT-2004 20:36:48; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;13939
28; 322.5; 29-OCT-2004 20:38:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13939
29; 500.7; 29-OCT-2004 20:41:50; Dark ; 51.5; 2; Alp Car ; -0.74; 7000;occ; 103; 0;13939
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7; -563.9; 30-OCT-2004 06:27:41; Dark ; 68.5; 48; 30Alp Hya ; 1.98; 4100;occ; 137; 0;13944
8; -237.2; 30-OCT-2004 06:33:08; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;13944
9; -107.2; 30-OCT-2004 06:35:18; Dark ; 40.0; 129; Del Cru ; 2.79; 26000;occ; 80; 0;13944
10; 160.5; 30-OCT-2004 06:39:45; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;13945
11; 391.6; 30-OCT-2004 06:43:37; Dark ; 66.5; 117; Pi Pup ; 2.71; 3800;occ; 133; 0;13945
12; 506.5; 30-OCT-2004 06:45:31; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;13945
13; 638.5; 30-OCT-2004 06:47:43; Dark ; 104.0; 179; 240mi2CMa ; 3.03; 24000;occ; 208; 0;13945
14; 854.0; 30-OCT-2004 06:51:19; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;13945
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12;-2614.8; 30-OCT-2004 07:34:06; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;13945
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17;-1809.6; 30-OCT-2004 07:47:31; Bright; 39.0; 174; 52Psi UMa ; 3.00; 4400;occ; 78; 0;13945
18;-1391.0; 30-OCT-2004 07:54:30; Dark ; 255.0; 24; 66Alp Gem ; 1.58; 10200;occ; 510; 0;13945
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20; -236.8; 30-OCT-2004 08:13:44; Dark ; 39.0; 99; Del Cen ; 2.58; 26000;occ; 78; 0;13945
21; -107.7; 30-OCT-2004 08:15:53; Dark ; 39.5; 129; Del Cru ; 2.79; 26000;occ; 79; 0;13945
22; 40.2; 30-OCT-2004 08:18:21; Dark ; 40.5; 91; Kap Vel ; 2.49; 26000;occ; 81; 0;13946
23; 160.6; 30-OCT-2004 08:20:21; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;13946
24; 392.6; 30-OCT-2004 08:24:13; Dark ; 65.5; 117; Pi Pup ; 2.71; 3800;occ; 131; 0;13946
25; 507.5; 30-OCT-2004 08:26:08; Dark ; 52.0; 2; Alp Car ; -0.74; 7000;occ; 104; 0;13946
26; 641.1; 30-OCT-2004 08:28:22; Dark ; 103.0; 179; 240mi2CMa ; 3.03; 24000;occ; 206; 0;13946
27; 854.7; 30-OCT-2004 08:31:56; Dark ; 42.0; 143; Alp Hyi ; 2.86; 7200;occ; 84; 0;13946
28; 938.3; 30-OCT-2004 08:33:19; Dark ; 47.0; 9; Alp Eri ; 0.45; 24000;occ; 94; 0;13946
29; 1230.3; 30-OCT-2004 08:38:11; Dark ; 202.0; 1; 9Alp CMa ; -1.44; 11000;occ; 404; 0;13946

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16;-1959.9; 30-OCT-2004 09:25:37; Bright; 38.0; 39; 85Eta UMa ; 1.85; 24000;occ; 76; 0;13946
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20; -236.9; 30-OCT-2004 09:54:20; Dark ; 39.0; 99; Del Cen ; 2.58; 26000;occ; 78; 0;13946
21; -107.1; 30-OCT-2004 09:56:30; Dark ; 38.0; 129; Del Cru ; 2.79; 26000;occ; 76; 0;13946
22; 40.7; 30-OCT-2004 09:58:57; Dark ; 41.5; 91; Kap Vel ; 2.49; 26000;occ; 83; 0;13947
23; 160.8; 30-OCT-2004 10:00:58; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;13947
24; 393.9; 30-OCT-2004 10:04:51; Dark ; 66.0; 117; Pi Pup ; 2.71; 3800;occ; 132; 0;13947
25; 508.3; 30-OCT-2004 10:06:45; Dark ; 50.0; 2; Alp Car ; -0.74; 7000;occ; 100; 0;13947
26; 643.5; 30-OCT-2004 10:09:00; Dark ; 103.5; 179; 240mi2Cma ; 3.03; 24000;occ; 207; 0;13947
27; 854.8; 30-OCT-2004 10:12:32; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13947
28; 938.3; 30-OCT-2004 10:13:55; Dark ; 51.5; 9; Alp Eri ; 0.45; 24000;occ; 103; 0;13947
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6;-3522.3; 30-OCT-2004 10:40:10; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;13947
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21; -106.8; 30-OCT-2004 11:37:06; Dark ; 38.0; 129; Del Cru ; 2.79; 26000;occ; 76; 0;13947
22; 40.9; 30-OCT-2004 11:39:34; Dark ; 42.0; 91; Kap Vel ; 2.49; 26000;occ; 84; 0;13948
23; 161.0; 30-OCT-2004 11:41:34; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;13948
24; 395.2; 30-OCT-2004 11:45:28; Dark ; 66.5; 117; Pi Pup ; 2.71; 3800;occ; 133; 0;13948
25; 508.4; 30-OCT-2004 11:47:21; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;13948
26; 645.9; 30-OCT-2004 11:49:39; Dark ; 103.0; 179; 240mi2Cma ; 3.03; 24000;occ; 206; 0;13948
27; 854.9; 30-OCT-2004 11:53:07; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13948
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12;-2614.4; 30-OCT-2004 12:35:54; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;13948
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21;-107.4; 30-OCT-2004 13:17:41; Dark ; 40.0; 129; Del Cru ; 2.79; 26000;occ; 80; 0;13948
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23; 161.2; 30-OCT-2004 13:22:10; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;13949
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26; 648.7; 30-OCT-2004 13:30:17; Dark ; 100.5; 179; 240mi2CMA ; 3.03; 24000;occ; 201; 0;13949
27; 854.2; 30-OCT-2004 13:33:43; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;13949
28; 938.3; 30-OCT-2004 13:35:07; Dark ; 48.5; 9; Alp Eri ; 0.45; 24000;occ; 97; 0;13949
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13;-2614.2; 30-OCT-2004 14:16:30; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;13949
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17;-1956.9; 30-OCT-2004 14:27:28; Bright; 37.5; 39; 85Eta UMa ; 1.85; 24000;occ; 75; 0;13949
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20;-557.5; 30-OCT-2004 14:50:47; Dark ; 74.0; 48; 30Alp Hya ; 1.98; 4100;occ; 148; 0;13949
21;-236.7; 30-OCT-2004 14:56:08; Dark ; 39.5; 99; Del Cen ; 2.58; 26000;occ; 79; 0;13949
22;-108.0; 30-OCT-2004 14:58:16; Dark ; 39.0; 129; Del Cru ; 2.79; 26000;occ; 78; 0;13949
23; 42.5; 30-OCT-2004 15:00:47; Dark ; 41.5; 91; Kap Vel ; 2.49; 26000;occ; 83; 0;13950
24; 161.4; 30-OCT-2004 15:02:46; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;13950
25; 509.4; 30-OCT-2004 15:08:34; Dark ; 62.5; 2; Alp Car ; -0.74; 7000;occ; 125; 0;13950
26; 854.3; 30-OCT-2004 15:14:19; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13950
27; 937.8; 30-OCT-2004 15:15:42; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;13950
28; 1131.4; 30-OCT-2004 15:18:56; Dark ; 46.0; 157; The1Eri ; 2.91; 9300;occ; 92; 0;13950
29; 1224.4; 30-OCT-2004 15:20:29; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;13950
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2; -237.2; 30-OCT-2004 01:31:20; Dark ; 38.5; 99; Del Cen ; 2.58; 26000;occ; 77; 0;13941
3; -107.4; 30-OCT-2004 01:33:30; Dark ; 39.5; 129; Del Cru ; 2.79; 26000;occ; 79; 0;13941
4; 87.8; 30-OCT-2004 01:36:45; Dark ; 44.5; 71; Iot Car ; 2.25; 7700;occ; 89; 0;13942
5; 172.9; 30-OCT-2004 01:38:10; Dark ; 49.0; 34; Gam2Vel ; 1.79; 23000;occ; 98; 0;13942
6; 325.4; 30-OCT-2004 01:40:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13942
7; 503.1; 30-OCT-2004 01:43:40; Dark ; 63.0; 2; Alp Car ; -0.74; 7000;occ; 126; 0;13942
8; 632.5; 30-OCT-2004 01:45:50; Dark ; 102.5; 179; 240mi2CMA ; 3.03; 24000;occ; 205; 0;13942
9; 853.6; 30-OCT-2004 01:49:31; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;13942
10; 936.8; 30-OCT-2004 01:50:54; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;13942
11; 1130.4; 30-OCT-2004 01:54:07; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;13942
12; 1311.8; 30-OCT-2004 01:57:09; Dark ; 108.5; 139; 9Bet Lep ; 2.83; 5600;occ; 217; 0;13942
13; 1618.1; 30-OCT-2004 02:02:15; Dark ; 45.0; 52; 16Bet Cet ; 2.04; 4500;occ; 90; 0;13942

```

```

14; 2016.1; 30-OCT-2004 02:08:53; Dark ; 69.5; 94; 92Alp Cet ; 2.53; 3100;occ; 139; 0;13942
15; 2187.2; 30-OCT-2004 02:11:44; Bright; 38.5; 140; 88Gam Peg ; 2.83; 26000;occ; 77; 0;13942
16; 2274.6; 30-OCT-2004 02:13:12; Bright; 43.0; 105; 6Bet Ari ; 2.64; 8900;occ; 86; 0;13942
17; 2418.8; 30-OCT-2004 02:15:36; Bright; 39.0; 58; 21Alp And ; 2.07; 11000;occ; 78; 0;13942
18; 2513.4; 30-OCT-2004 02:17:10; Bright; 42.0; 53; 43Bet And ; 2.05; 3300;occ; 84; 0;13942
19; 2665.8; 30-OCT-2004 02:19:43; Bright; 41.0; 73; 57Gam1And ; 2.26; 13100;occ; 82; 0;13942
20; 2756.5; 30-OCT-2004 02:21:14; Bright; 45.5; 79; 26Bet Per ; 2.31; 13100;occ; 91; 0;13942
21; 2864.6; 30-OCT-2004 02:23:02; Bright; 38.5; 68; 18Alp Cas ; 2.22; 4500;occ; 77; 0;13942
22; 2937.0; 30-OCT-2004 02:24:14; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;13942
23; 3135.8; 30-OCT-2004 02:27:33; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;13942
24; 3421.0; 30-OCT-2004 02:32:18; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;13942
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2;-2124.8; 30-OCT-2004 02:40:28; Bright; 42.5; 36; 50Alp UMa ; 1.80; 6300;occ; 85; 0;13942
3;-2033.8; 30-OCT-2004 02:41:59; Bright; 52.0; 32; 77Eps UMa ; 1.76; 11000;occ; 104; 0;13942
4;-1958.0; 30-OCT-2004 02:43:15; Bright; 38.0; 39; 85Eta UMa ; 1.85; 24000;occ; 76; 0;13942
5;-1808.9; 30-OCT-2004 02:45:44; Bright; 40.0; 174; 52Psi UMa ; 3.00; 4400;occ; 80; 0;13942
6;-1393.5; 30-OCT-2004 02:52:39; Bright; 255.0; 24; 66Alp Gem ; 1.58; 10200;occ; 510; 0;13942
7; -565.7; 30-OCT-2004 03:06:27; Dark ; 69.5; 48; 30Alp Hya ; 1.98; 4100;occ; 139; 0;13942
8; -237.3; 30-OCT-2004 03:11:56; Dark ; 41.0; 99; Del Cen ; 2.58; 26000;occ; 82; 0;13942
9; -107.7; 30-OCT-2004 03:14:05; Dark ; 37.5; 129; Del Cru ; 2.79; 26000;occ; 75; 0;13942
10; 90.1; 30-OCT-2004 03:17:23; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;13943
11; 172.1; 30-OCT-2004 03:18:45; Dark ; 49.5; 34; Gam2Vel ; 1.79; 23000;occ; 99; 0;13943
12; 326.4; 30-OCT-2004 03:21:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13943
13; 504.0; 30-OCT-2004 03:24:17; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;13943
14; 634.7; 30-OCT-2004 03:26:28; Dark ; 99.0; 179; 240mi2Cma ; 3.03; 24000;occ; 198; 0;13943
15; 853.6; 30-OCT-2004 03:30:07; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;13943
16; 936.5; 30-OCT-2004 03:31:29; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;13943
17; 1130.9; 30-OCT-2004 03:34:44; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;13943
18; 1312.0; 30-OCT-2004 03:37:45; Dark ; 115.0; 139; 9Bet Lep ; 2.83; 5600;occ; 230; 0;13943
19; 1617.7; 30-OCT-2004 03:42:51; Dark ; 47.0; 52; 16Bet Cet ; 2.04; 4500;occ; 94; 0;13943
20; 2013.4; 30-OCT-2004 03:49:26; Dark ; 70.0; 94; 92Alp Cet ; 2.53; 3100;occ; 140; 0;13943
21; 2187.9; 30-OCT-2004 03:52:21; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;13943
22; 2272.8; 30-OCT-2004 03:53:46; Bright; 44.0; 105; 6Bet Ari ; 2.64; 8900;occ; 88; 0;13943
23; 2419.1; 30-OCT-2004 03:56:12; Bright; 39.5; 58; 21Alp And ; 2.07; 11000;occ; 79; 0;13943
24; 2513.4; 30-OCT-2004 03:57:46; Bright; 40.5; 53; 43Bet And ; 2.05; 3300;occ; 81; 0;13943
25; 2665.7; 30-OCT-2004 04:00:19; Bright; 41.0; 73; 57Gam1And ; 2.26; 13100;occ; 82; 0;13943
26; 2755.5; 30-OCT-2004 04:01:48; Bright; 46.5; 79; 26Bet Per ; 2.31; 13100;occ; 93; 0;13943
27; 2865.4; 30-OCT-2004 04:03:38; Bright; 38.5; 68; 18Alp Cas ; 2.22; 4500;occ; 77; 0;13943
28; 2937.7; 30-OCT-2004 04:04:51; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;13943
29; 3135.9; 30-OCT-2004 04:08:09; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;13943
30; 3419.3; 30-OCT-2004 04:12:52; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;13943
31; 3645.1; 30-OCT-2004 04:16:38; Bright; 9.5; 60; 7Bet UMi ; 2.08; 3950;occ; 19; 0;13943
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3;-2036.0; 30-OCT-2004 04:22:33; Bright; 41.5; 32; 77Eps UMa ; 1.76; 11000;occ; 83; 0;13943
4;-1957.8; 30-OCT-2004 04:23:51; Bright; 52.0; 39; 85Eta UMa ; 1.85; 24000;occ; 104; 0;13943
5;-1808.6; 30-OCT-2004 04:26:20; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 0;13943
6;-1392.9; 30-OCT-2004 04:33:16; Bright; 255.0; 24; 66Alp Gem ; 1.58; 10200;occ; 510; 0;13943
7; -564.7; 30-OCT-2004 04:47:04; Dark ; 70.5; 48; 30Alp Hya ; 1.98; 4100;occ; 141; 0;13943
8; -237.0; 30-OCT-2004 04:52:32; Dark ; 41.0; 99; Del Cen ; 2.58; 26000;occ; 82; 0;13943
9; -107.3; 30-OCT-2004 04:54:42; Dark ; 39.5; 129; Del Cru ; 2.79; 26000;occ; 79; 0;13943
10; 91.6; 30-OCT-2004 04:58:01; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;13944
11; 174.7; 30-OCT-2004 04:59:24; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;13944
12; 327.2; 30-OCT-2004 05:01:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13944
13; 505.3; 30-OCT-2004 05:04:54; Dark ; 61.0; 2; Alp Car ; -0.74; 7000;occ; 122; 0;13944
14; 636.4; 30-OCT-2004 05:07:05; Dark ; 105.0; 179; 240mi2Cma ; 3.03; 24000;occ; 210; 0;13944
15; 853.6; 30-OCT-2004 05:10:43; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;13944
16; 937.4; 30-OCT-2004 05:12:06; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;13944
17; 1132.2; 30-OCT-2004 05:15:21; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;13944
18; 1312.2; 30-OCT-2004 05:18:21; Dark ; 113.0; 139; 9Bet Lep ; 2.83; 5600;occ; 226; 0;13944
19; 1618.8; 30-OCT-2004 05:23:28; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;13944
20; 2014.8; 30-OCT-2004 05:30:04; Dark ; 61.0; 94; 92Alp Cet ; 2.53; 3100;occ; 122; 0;13944
21; 2188.5; 30-OCT-2004 05:32:58; Bright; 36.5; 140; 88Gam Peg ; 2.83; 26000;occ; 73; 0;13944
22; 2275.5; 30-OCT-2004 05:34:25; Bright; 41.0; 105; 6Bet Ari ; 2.64; 8900;occ; 82; 0;13944
23; 2420.2; 30-OCT-2004 05:36:49; Bright; 38.5; 58; 21Alp And ; 2.07; 11000;occ; 77; 0;13944
24; 2513.6; 30-OCT-2004 05:38:23; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;13944

```



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25; 2666.0; 30-OCT-2004 05:40:55; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;13944
26; 2754.9; 30-OCT-2004 05:42:24; Bright; 45.5; 79; 26Bet Per ; 2.31; 13100;occ; 91; 0;13944
27; 2865.9; 30-OCT-2004 05:44:15; Bright; 38.5; 68; 18Alp Cas ; 2.22; 4500;occ; 77; 0;13944
28; 2938.3; 30-OCT-2004 05:45:27; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;13944
29; 3136.5; 30-OCT-2004 05:48:45; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;13944
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 2; 939.3; 30-OCT-2004 20:17:32; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;13953
 3; 1135.5; 30-OCT-2004 20:20:48; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;13953
 4; 1224.8; 30-OCT-2004 20:22:17; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;13953
 5; 1619.9; 30-OCT-2004 20:28:52; Dark ; 49.5; 52; 16Bet Cet ; 2.04; 4500;occ; 99; 0;13953
 6; 2012.8; 30-OCT-2004 20:35:25; Dark ; 60.0; 94; 92Alp Cet ; 2.53; 3100;occ; 120; 0;13953
 7; 2190.1; 30-OCT-2004 20:38:22; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;13953
 8; 2274.0; 30-OCT-2004 20:39:46; Bright; 40.0; 105; 6Bet Ari ; 2.64; 8900;occ; 80; 0;13953
 9; 2422.5; 30-OCT-2004 20:42:15; Bright; 37.5; 58; 21Alp And ; 2.07; 11000;occ; 75; 0;13953
10; 2513.5; 30-OCT-2004 20:43:46; Bright; 37.5; 53; 43Bet And ; 2.05; 3300;occ; 75; 0;13953
11; 2662.8; 30-OCT-2004 20:46:15; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;13953
12; 2749.3; 30-OCT-2004 20:47:42; Bright; 44.0; 79; 26Bet Per ; 2.31; 13100;occ; 88; 0;13953
13; 2865.6; 30-OCT-2004 20:49:38; Bright; 38.5; 68; 18Alp Cas ; 2.22; 4500;occ; 77; 0;13953
14; 2937.8; 30-OCT-2004 20:50:50; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;13953
15; 3159.6; 30-OCT-2004 20:54:32; Bright; 96.5; 114; 3Iot Aur ; 2.69; 4600;occ; 193; 0;13953
16; 3422.2; 30-OCT-2004 20:58:55; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;13953
17; 3650.0; 30-OCT-2004 21:02:42; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;13953
18; 3911.6; 30-OCT-2004 21:07:04; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;13953
19; 4004.4; 30-OCT-2004 21:08:37; Bright; 52.0; 32; 77Eps UMa ; 1.76; 11000;occ; 104; 0;13953
20; 4080.5; 30-OCT-2004 21:09:53; Bright; 52.0; 39; 85Eta UMa ; 1.85; 24000;occ; 104; 0;13953
21; 4227.1; 30-OCT-2004 21:12:19; Bright; 40.5; 174; 52Psi UMa ; 3.00; 4400;occ; 81; 0;13953
22; 4652.8; 30-OCT-2004 21:19:25; Dark ; 254.5; 24; 66Alp Gem ; 1.58; 10200;occ; 509; 0;13953
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 2; -235.9; 30-OCT-2004 21:38:32; Dark ; 37.5; 99; Del Cen ; 2.58; 26000;occ; 75; 0;13953
 3; -106.6; 30-OCT-2004 21:40:42; Dark ; 38.0; 129; Del Cru ; 2.79; 26000;occ; 76; 0;13953
 4; 162.2; 30-OCT-2004 21:45:10; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;13954
 5; 512.5; 30-OCT-2004 21:51:01; Dark ; 52.0; 2; Alp Car ; -0.74; 7000;occ; 104; 0;13954
 6; 855.1; 30-OCT-2004 21:56:43; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;13954
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15; 2512.8; 30-OCT-2004 22:24:21; Bright; 39.5; 53; 43Bet And ; 2.05; 3300;occ; 79; 0;13954
16; 2662.2; 30-OCT-2004 22:26:50; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;13954
17; 2748.0; 30-OCT-2004 22:28:16; Bright; 47.0; 79; 26Bet Per ; 2.31; 13100;occ; 94; 0;13954
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19; 2937.1; 30-OCT-2004 22:31:25; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;13954
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26; 4224.7; 30-OCT-2004 22:52:53; Bright; 41.5; 174; 52Psi UMa ; 3.00; 4400;occ; 83; 0;13954
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 3; -106.3; 30-OCT-2004 23:21:18; Dark ; 38.0; 129; Del Cru ; 2.79; 26000;occ; 76; 0;13954
 4; 203.6; 30-OCT-2004 23:26:28; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;13955
 5; 337.6; 30-OCT-2004 23:28:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13955
 6; 513.2; 30-OCT-2004 23:31:37; Dark ; 51.5; 2; Alp Car ; -0.74; 7000;occ; 103; 0;13955
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15; 2421.5; 31-OCT-2004 00:03:26; Bright; 39.5; 58; 21Alp And ; 2.07; 11000;occ; 79; 0;13955
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23; 511.2; 30-OCT-2004 16:49:12; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;13951
24; 855.3; 30-OCT-2004 16:54:56; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;13951
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18;-1956.5; 30-OCT-2004 17:48:40; Bright; 36.5; 39; 85Eta UMa ; 1.85; 24000;occ; 73; 0;13951
19;-1808.9; 30-OCT-2004 17:51:08; Bright; 41.0; 174; 52Psi UMa ; 3.00; 4400;occ; 82; 0;13951
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22;-236.3; 30-OCT-2004 18:17:20; Dark ; 39.0; 99; Del Cen ; 2.58; 26000;occ; 78; 0;13951

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25; 512.2; 30-OCT-2004 18:29:49; Dark ; 58.0; 2; Alp Car ;-0.74; 7000;occ; 116; 0;13952
26; 855.8; 30-OCT-2004 18:35:32; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;13952
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3; 45.4; 31-OCT-2004 01:04:25; Dark ; 43.5; 91; Kap Vel ; 2.49; 26000;occ; 87; 0;13956
4; 204.3; 31-OCT-2004 01:07:04; Dark ; 40.0; 29; Bet Car ; 1.67; 10200;occ; 80; 0;13956
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12; 342.3; 31-OCT-2004 07:51:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13960
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21;	-105.8;	31-OCT-2004	19:28:29;	Dark	;	38.5;	129;	Del Cru	;	2.79;	26000;occ;	77;	0;13966
22;	52.4;	31-OCT-2004	19:31:08;	Dark	;	40.5;	91;	Kap Vel	;	2.49;	26000;occ;	81;	0;13967
23;	207.4;	31-OCT-2004	19:33:43;	Dark	;	40.5;	29;	Bet Car	;	1.67;	10200;occ;	81;	0;13967
24;	348.8;	31-OCT-2004	19:36:04;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;13967
25;	523.6;	31-OCT-2004	19:38:59;	Dark	;	50.5;	2;	Alp Car	;	-0.74;	7000;occ;	101;	0;13967
26;	858.2;	31-OCT-2004	19:44:33;	Dark	;	37.0;	143;	Alp Hyi	;	2.86;	7200;occ;	74;	0;13967