

# GOMOS Daily Report 06-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](#)

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### 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	08OCT2004 05:01:27
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (06OCT2004 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (07OCT2004 00:00:00)

Store outputs flag	1
Nb of level 1b prods	41
Nb of prods with errors	1

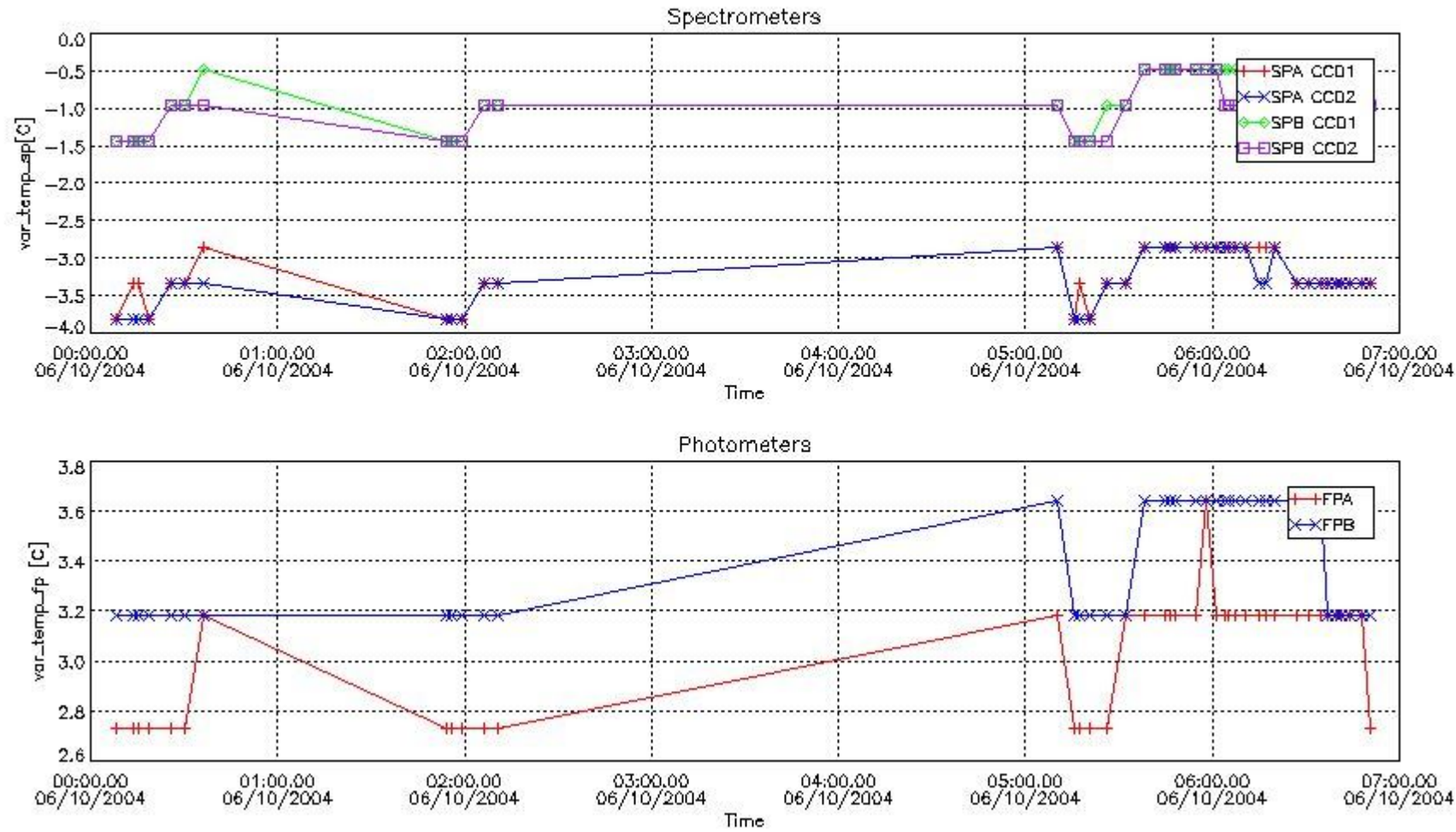
## 2. Summary of products arrived in PCF (Product Control Facility)

### 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_1PNPDE20041006_000809_000000402031_00016_13597_0022.N1	06-OCT-2004 00:08:09	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	13597	No
GOM_TRA_1PNPDE20041006_001350_000000402031_00016_13597_0023.N1	06-OCT-2004 00:13:50	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	13597	No
GOM_TRA_1PNPDE20041006_001522_000000352031_00016_13597_0024.N1	06-OCT-2004 00:15:22	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	13597	No
GOM_TRA_1PNPDE20041006_001837_000000522031_00016_13597_0025.N1	06-OCT-2004 00:18:37	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	13597	No
GOM_TRA_1PNPDE20041006_002543_000000782031_00016_13597_0026.N1	06-OCT-2004 00:25:43	Bright	78.000	17	78Bet Gem	1.1610	4500.0	156	13597	No
GOM_TRA_1PNPDE20041006_003004_000001642031_00016_13597_0027.N1	06-OCT-2004 00:30:04	Twilight	164.00	170	27Eps Gem	3.0000	9700.0	328	13597	No
GOM_TRA_1PNPDE20041006_003614_000000882031_00016_13597_0028.N1	06-OCT-2004 00:36:14	Dark	87.500	8	10Alp CMi	0.40000	6500.0	175	13597	No
GOM_TRA_1PNPDE20041006_015424_000000422031_00017_13598_0023.N1	06-OCT-2004 01:54:24	Bright	41.500	36	50Alp UMa	1.8000	6300.0	83	13598	No
GOM_TRA_1PNPDE20041006_015558_000000502031_00017_13598_0024.N1	06-OCT-2004 01:55:58	Bright	50.000	82	48Bet UMa	2.3650	10600.	100	13598	No
GOM_TRA_1PNPDE20041006_015913_000000522031_00017_13598_0025.N1	06-OCT-2004 01:59:13	Bright	52.000	174	52Psi UMa	3.0040	4400.0	104	13598	No
GOM_TRA_1PNPDE20041006_020619_000000692031_00017_13598_0026.N1	06-OCT-2004 02:06:19	Bright	68.500	17	78Bet Gem	1.1610	4500.0	137	13598	No
GOM_TRA_1PNPDE20041006_021041_000001402031_00017_13598_0027.N1	06-OCT-2004 02:10:41	Twilight	140.00	170	27Eps Gem	3.0000	9700.0	280	13598	No
GOM_TRA_1PNPDE20041006_050958_000000362031_00019_13600_0000.N1	06-OCT-2004 05:09:58	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	13600	Yes
GOM_TRA_1PNPDE20041006_051538_000000402031_00019_13600_0001.N1	06-OCT-2004 05:15:38	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	13600	No
GOM_TRA_1PNPDE20041006_051710_000000382031_00019_13600_0002.N1	06-OCT-2004 05:17:10	Bright	38.000	82	48Bet UMa	2.3650	10600.	76	13600	No
GOM_TRA_1PNPDE20041006_052026_000000382031_00019_13600_0003.N1	06-OCT-2004 05:20:26	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	13600	No
GOM_TRA_1PNPDE20041006_052552_000000662031_00019_13600_0004.N1	06-OCT-2004 05:25:52	Bright	65.500	24	66Alp Gem	1.5800	10200.	131	13600	No
GOM_TRA_1PNPDE20041006_053157_000001532031_00019_13600_0005.N1	06-OCT-2004 05:31:57	Twilight	153.00	170	27Eps Gem	3.0000	9700.0	306	13600	No
GOM_TRA_1PNPDE20041006_053806_000000872031_00019_13600_0006.N1	06-OCT-2004 05:38:06	Dark	87.000	8	10Alp CMi	0.40000	6500.0	174	13600	No
GOM_TRA_1PNPDE20041006_054443_000000562031_00019_13600_0007.N1	06-OCT-2004 05:44:43	Dark	55.500	132	15Rho Pup	2.8030	6900.0	111	13600	No
GOM_TRA_1PNPDE20041006_054641_000000472031_00019_13600_0008.N1	06-OCT-2004 05:46:41	Dark	46.500	65	Lam Vel	2.2040	4400.0	93	13600	No
GOM_TRA_1PNPDE20041006_054818_000000492031_00019_13600_0009.N1	06-OCT-2004 05:48:18	Dark	48.500	70	Zet Pup	2.2460	39000.	97	13600	No
GOM_TRA_1PNPDE20041006_055454_000000612031_00020_13601_0010.N1	06-OCT-2004 05:54:54	Dark	61.000	2	Alp Car	-0.73600	7000.0	122	13601	No
GOM_TRA_1PNPDE20041006_055807_000000662031_00020_13601_0011.N1	06-OCT-2004 05:58:07	Dark	65.500	108	Alp Col	2.6520	15200.	131	13601	No
GOM_TRA_1PNPDE20041006_060115_000000412031_00020_13601_0012.N1	06-OCT-2004 06:01:15	Dark	40.500	135	Bet Hyi	2.8200	5800.0	81	13601	No
GOM_TRA_1PNPDE20041006_060343_000000402031_00020_13601_0013.N1	06-OCT-2004 06:03:43	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	13601	No
GOM_TRA_1PNPDE20041006_060511_000000542031_00020_13601_0014.N1	06-OCT-2004 06:05:11	Dark	54.000	9	Alp Eri	0.45300	24000.	108	13601	No
GOM_TRA_1PNPDE20041006_060711_000000522031_00020_13601_0015.N1	06-OCT-2004 06:07:11	Dark	51.500	157	The1Eri	2.9060	9300.0	103	13601	No
GOM_TRA_1PNPDE20041006_061024_000000442031_00020_13601_0016.N1	06-OCT-2004 06:10:24	Twilight	44.000	84	Alp Phe	2.3970	4500.0	88	13601	No
GOM_TRA_1PNPDE20041006_061456_000000472031_00020_13601_0017.N1	06-OCT-2004 06:14:56	Bright	47.000	18	24Alp PsA	1.1660	9700.0	94	13601	No
GOM_TRA_1PNPDE20041006_061711_000000482031_00020_13601_0018.N1	06-OCT-2004 06:17:11	Bright	47.500	52	16Bet Cet	2.0370	4500.0	95	13601	No
GOM_TRA_1PNPDE20041006_061954_000002152031_00020_13601_0019.N1	06-OCT-2004 06:19:54	Bright	215.00	165	34Gam Eri	2.9500	3200.0	430	13601	No
GOM_TRA_1PNPDE20041006_062715_000000392031_00020_13601_0020.N1	06-OCT-2004 06:27:15	Bright	39.000	140	88Gam Peg	2.8340	26000.	78	13601	No
GOM_TRA_1PNPDE20041006_063052_000000382031_00020_13601_0021.N1	06-OCT-2004 06:30:52	Bright	37.500	93	53Bet Peg	2.5200	3100.0	75	13601	No
GOM_TRA_1PNPDE20041006_063434_000000492031_00020_13601_0022.N1	06-OCT-2004 06:34:34	Bright	49.000	53	43Bet And	2.0480	3300.0	98	13601	No
GOM_TRA_1PNPDE20041006_063711_000000542031_00020_13601_0023.N1	06-OCT-2004 06:37:11	Bright	53.500	173	4Bet Tri	3.0040	8900.0	107	13601	No
GOM_TRA_1PNPDE20041006_063940_000000412031_00020_13601_0024.N1	06-OCT-2004 06:39:40	Bright	41.000	68	18Alp Cas	2.2250	4500.0	82	13601	No
GOM_TRA_1PNPDE20041006_064106_000000422031_00020_13601_0025.N1	06-OCT-2004 06:41:06	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	13601	No
GOM_TRA_1PNPDE20041006_064417_000000522031_00020_13601_0026.N1	06-OCT-2004 06:44:17	Bright	51.500	160	23Gam Per	2.9300	4700.0	103	13601	No
GOM_TRA_1PNPDE20041006_064810_000000382031_00020_13601_0027.N1	06-OCT-2004 06:48:10	Bright	38.000	49	1Alp UMi	1.9900	6300.0	76	13601	No
GOM_TRA_1PNPDE20041006_065035_000000382031_00020_13601_0028.N1	06-OCT-2004 06:50:35	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	13601	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.

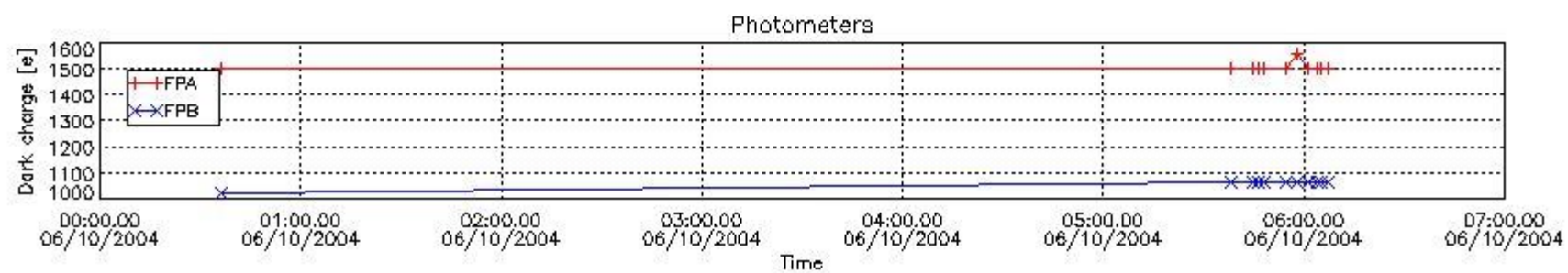
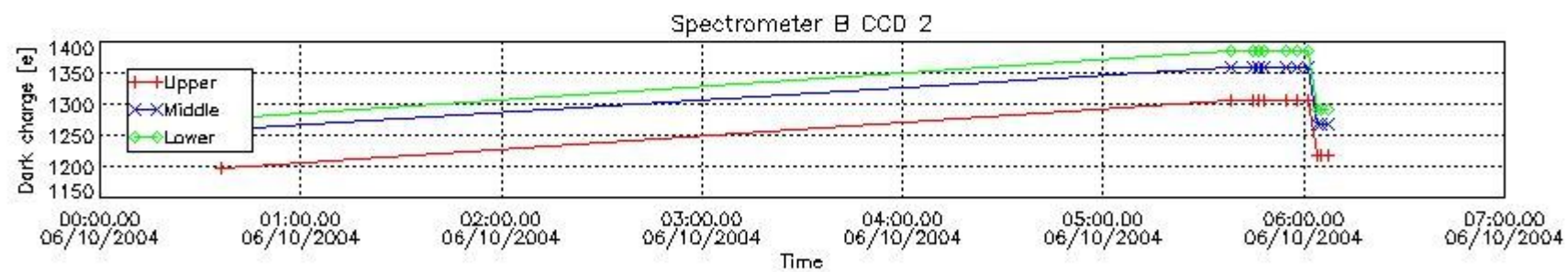
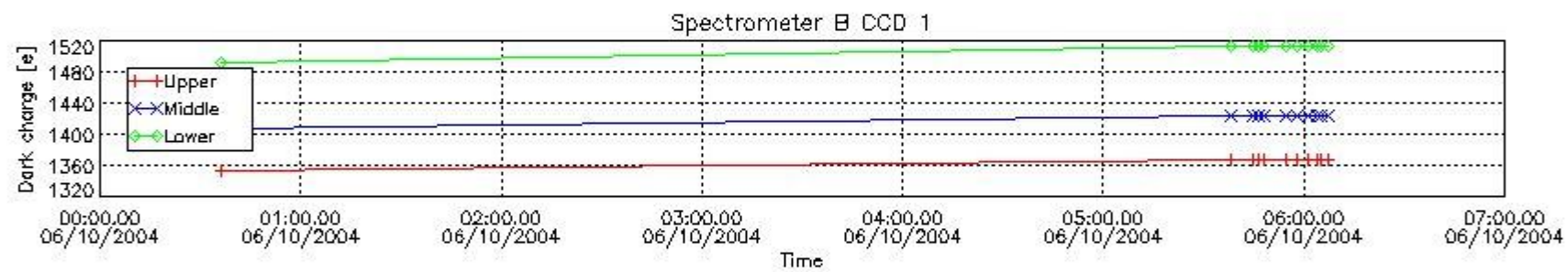
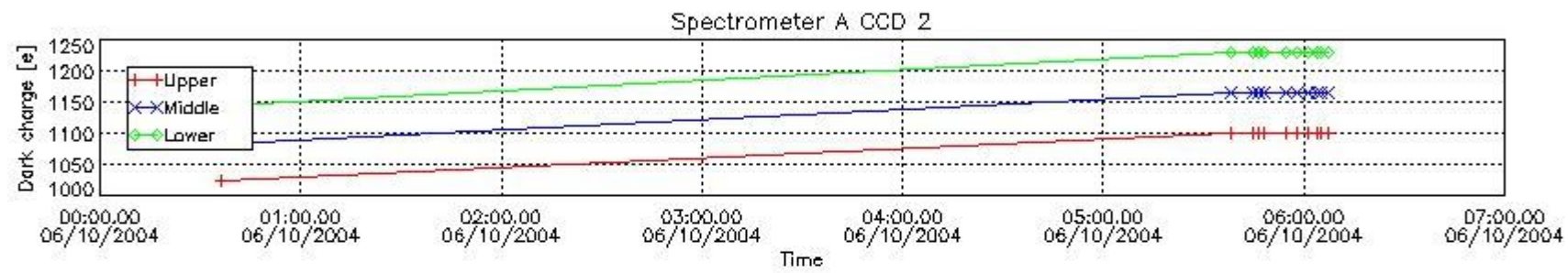
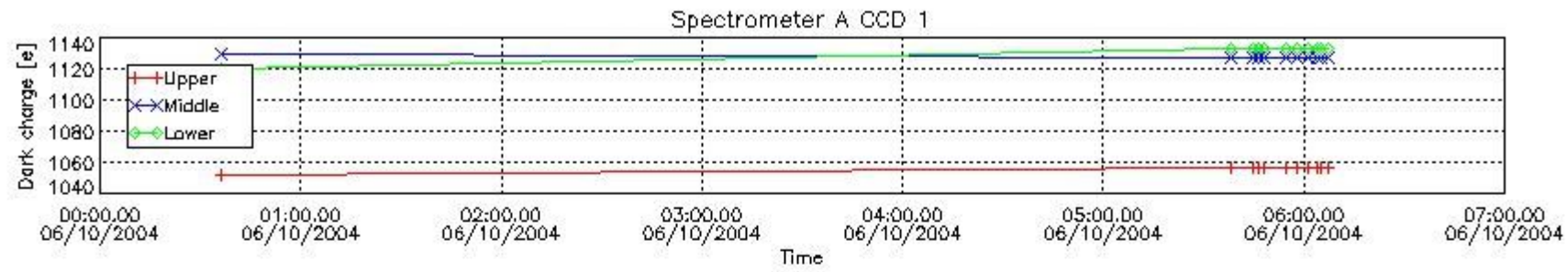
##### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20041006_050958_000000362031_00019_13600_0000.N1	DC map with no T dep. (12)
GOM_TRA_1PNPDE20041006_051538_000000402031_00019_13600_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20041006_051710_000000382031_00019_13600_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20041006_052026_000000382031_00019_13600_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20041006_052552_000000662031_00019_13600_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20041006_053157_000001532031_00019_13600_0005.N1	DC map used (0)
GOM_TRA_1PNPDE20041006_053806_000000872031_00019_13600_0006.N1	DC map used (0)
GOM_TRA_1PNPDE20041006_054443_000000562031_00019_13600_0007.N1	DC map used (0)
GOM_TRA_1PNPDE20041006_054641_000000472031_00019_13600_0008.N1	DC map used (0)
GOM_TRA_1PNPDE20041006_054818_000000492031_00019_13600_0009.N1	DC map used (0)
GOM_TRA_1PNPDE20041006_055454_000000612031_00020_13601_0010.N1	DC map used (0)
GOM_TRA_1PNPDE20041006_055807_000000662031_00020_13601_0011.N1	DC map used (0)
GOM_TRA_1PNPDE20041006_060115_000000412031_00020_13601_0012.N1	DC map used (0)
GOM_TRA_1PNPDE20041006_060343_000000402031_00020_13601_0013.N1	DC map used (0)

GOM_TRA_1PNPDE20041006_060511_000000542031_00020_13601_0014.N1	DC map used (0)
GOM_TRA_1PNPDE20041006_060711_000000522031_00020_13601_0015.N1	DC map used (0)
GOM_TRA_1PNPDE20041006_061024_000000442031_00020_13601_0016.N1	DC map used (0)
GOM_TRA_1PNPDE20041006_061456_000000472031_00020_13601_0017.N1	DC map used (0)
GOM_TRA_1PNPDE20041006_061711_000000482031_00020_13601_0018.N1	DC map used (0)
GOM_TRA_1PNPDE20041006_061954_0000002152031_00020_13601_0019.N1	DC map used (0)
GOM_TRA_1PNPDE20041006_062715_000000392031_00020_13601_0020.N1	DC map used (0)
GOM_TRA_1PNPDE20041006_063052_000000382031_00020_13601_0021.N1	DC map used (0)
GOM_TRA_1PNPDE20041006_063434_000000492031_00020_13601_0022.N1	DC map used (0)
GOM_TRA_1PNPDE20041006_063711_000000542031_00020_13601_0023.N1	DC map used (0)
GOM_TRA_1PNPDE20041006_063940_000000412031_00020_13601_0024.N1	DC map used (0)
GOM_TRA_1PNPDE20041006_064106_000000422031_00020_13601_0025.N1	DC map used (0)
GOM_TRA_1PNPDE20041006_064417_000000522031_00020_13601_0026.N1	DC map used (0)
GOM_TRA_1PNPDE20041006_064810_000000382031_00020_13601_0027.N1	DC map used (0)
GOM_TRA_1PNPDE20041006_065035_000000382031_00020_13601_0028.N1	DC map used (0)

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





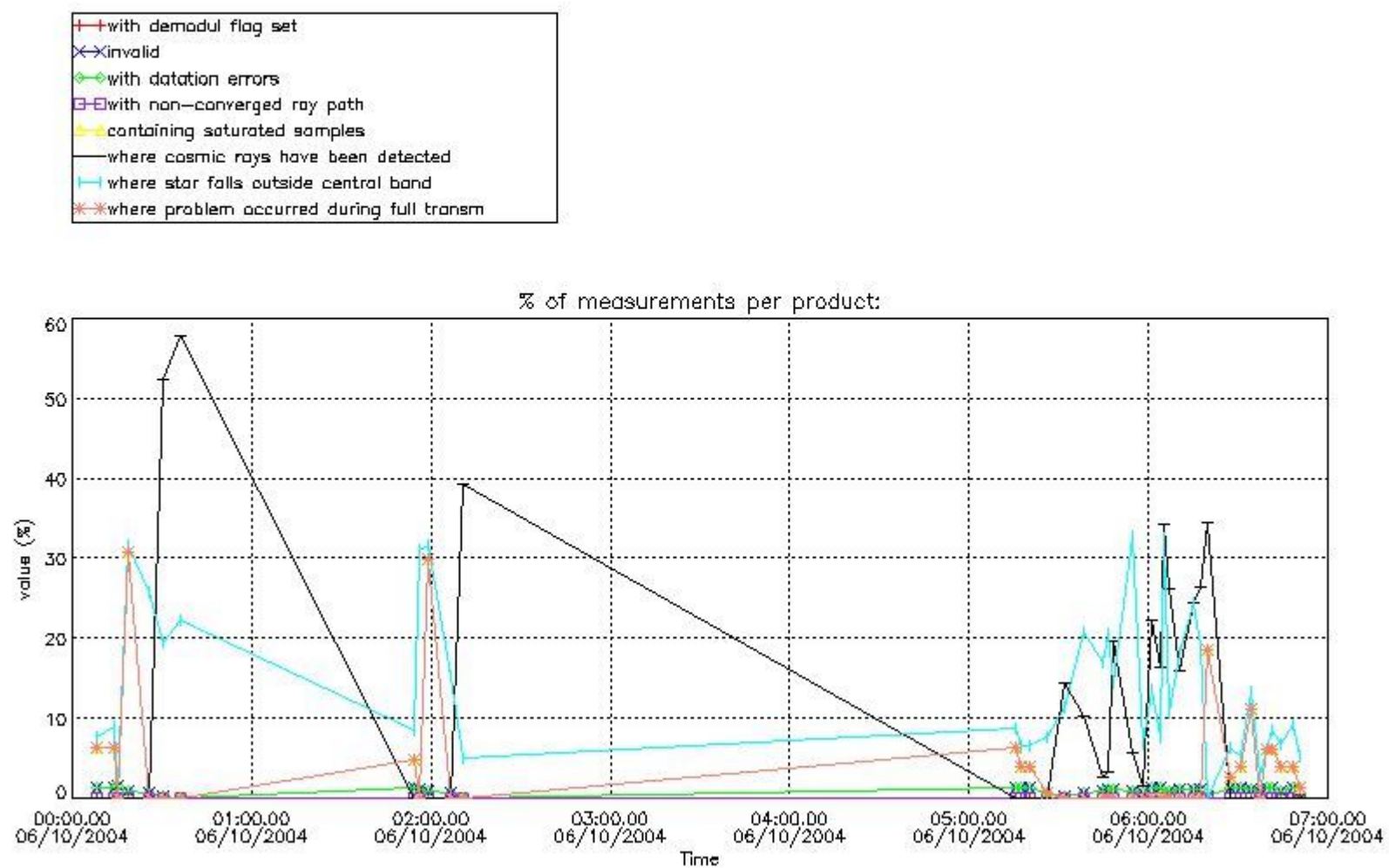
## 5. Demodulation flag and quality information monitoring

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.

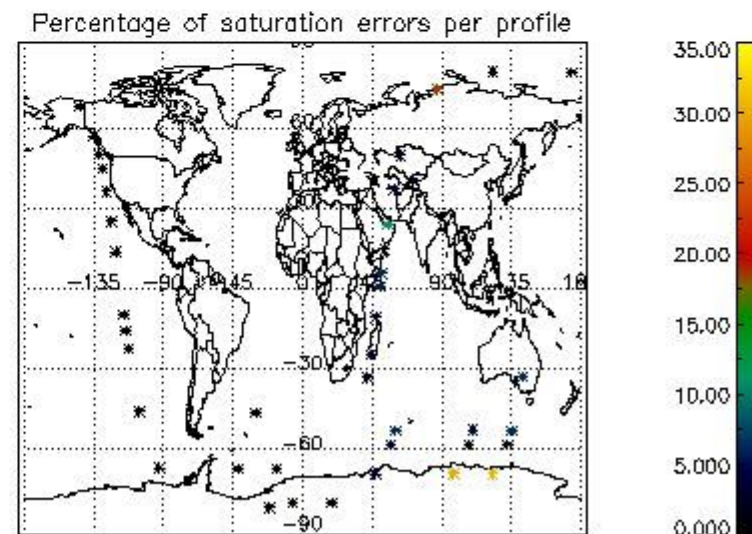
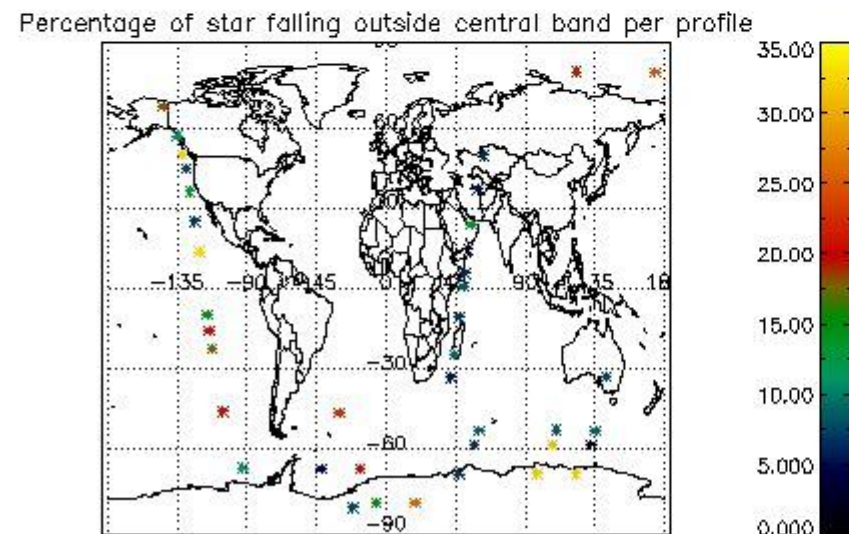
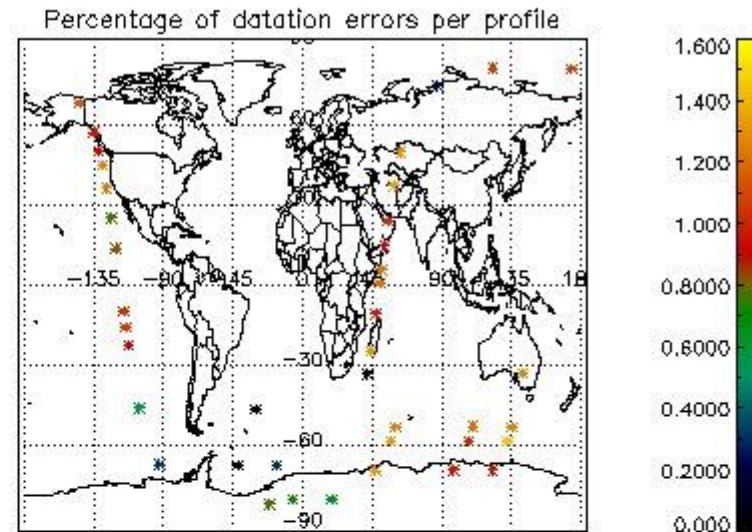
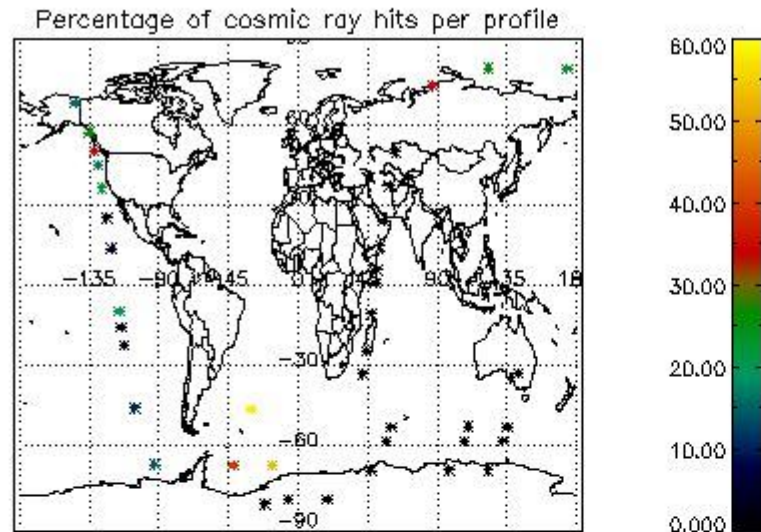
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	5.00000 %
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)

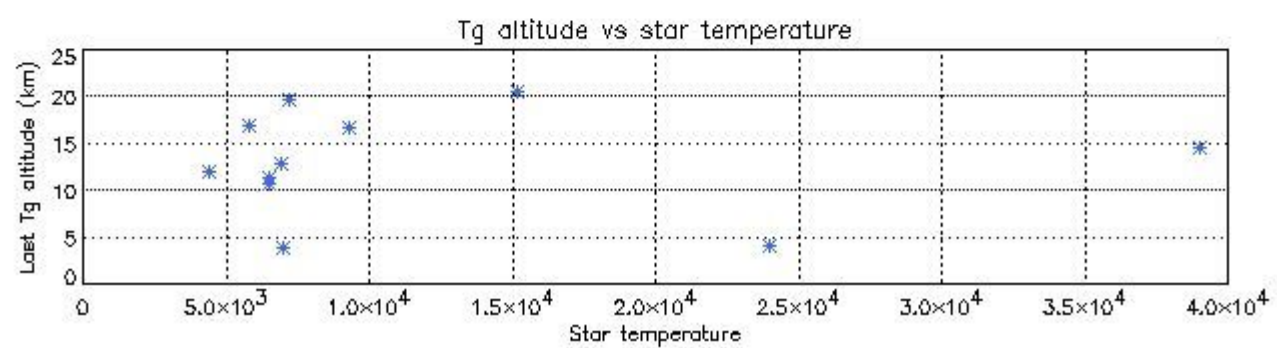
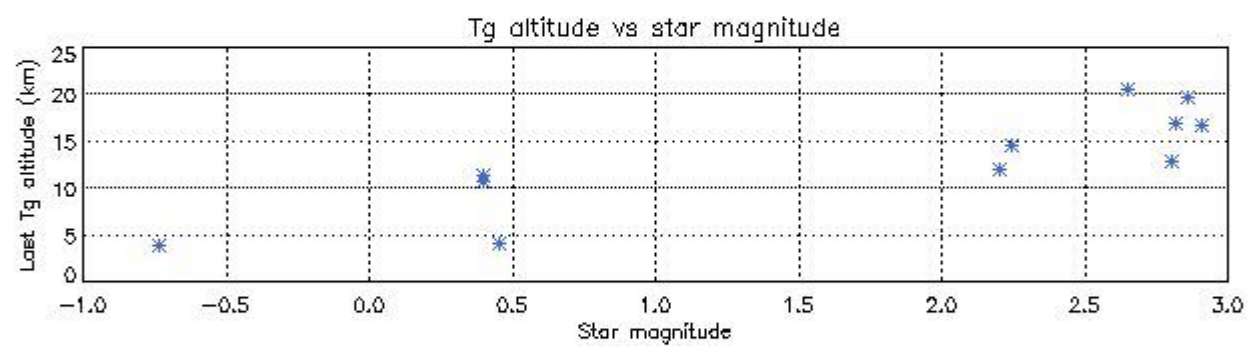
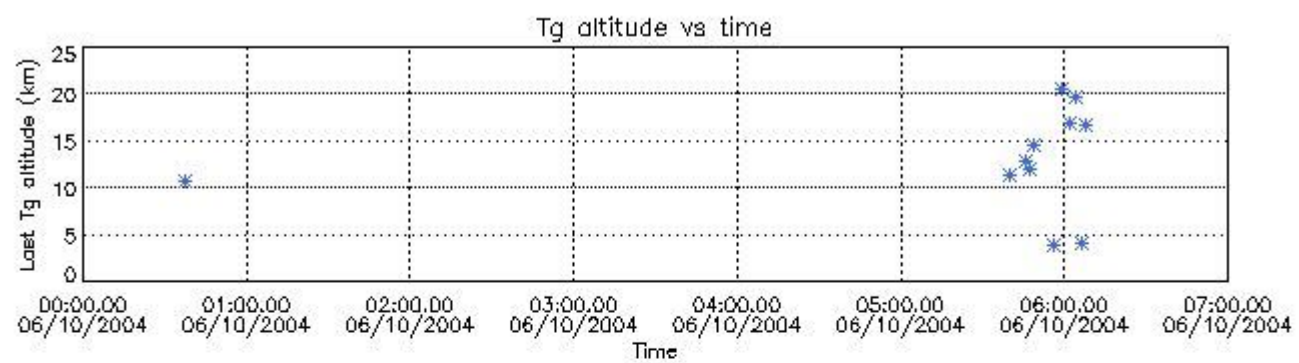
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.986	17.845	15.620
St. deviation:	5.5293	6.9137	3.5536
Maximum:	20.500	34.638	20.204
Minimum:	3.8744	5.4387	12.523
Number of data:	11.000	25.000	4.0000

### 6.2 Plot for DARK limb products



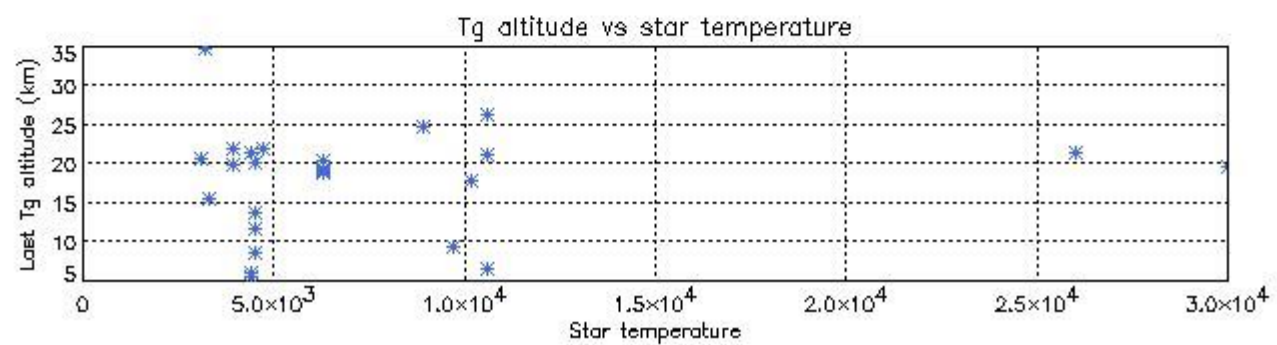
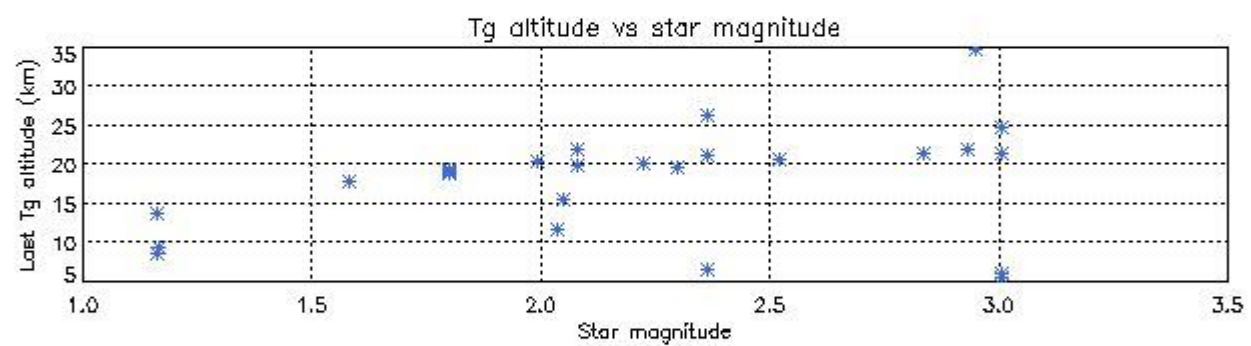
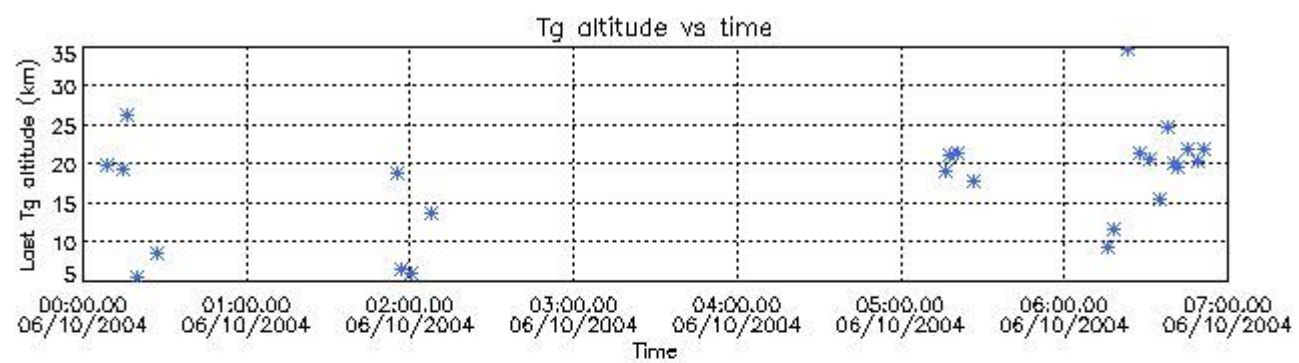
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

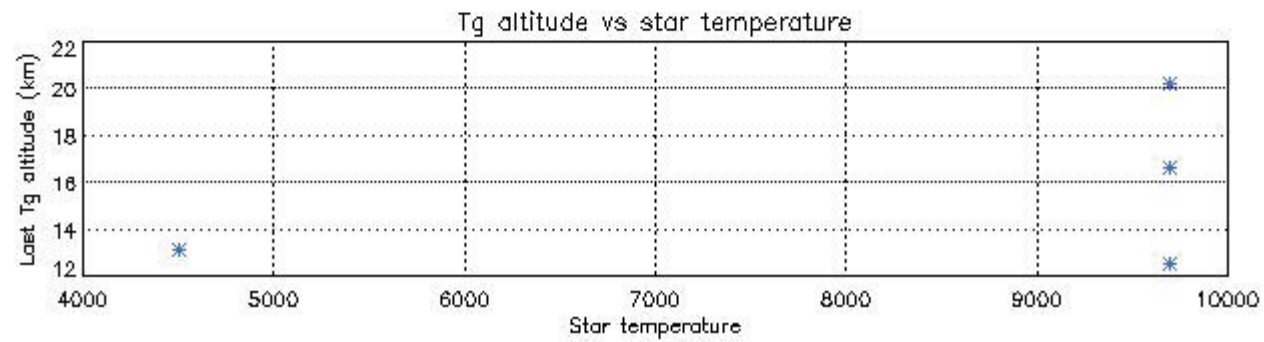
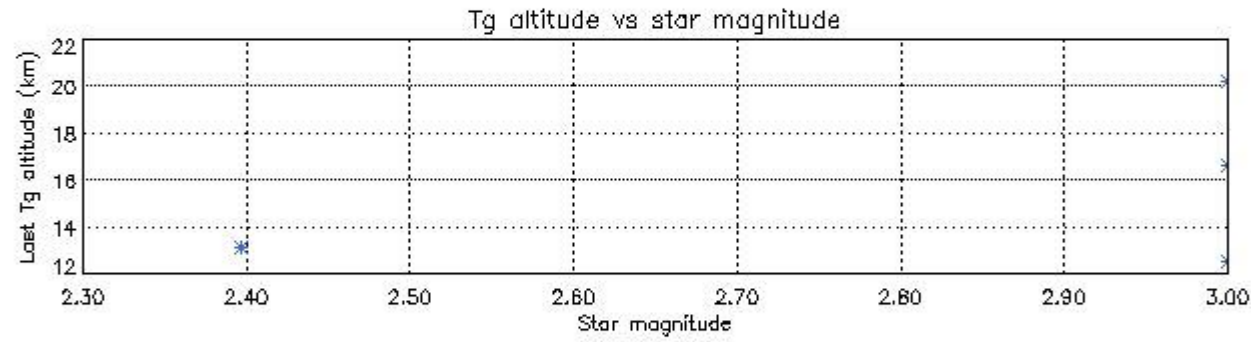
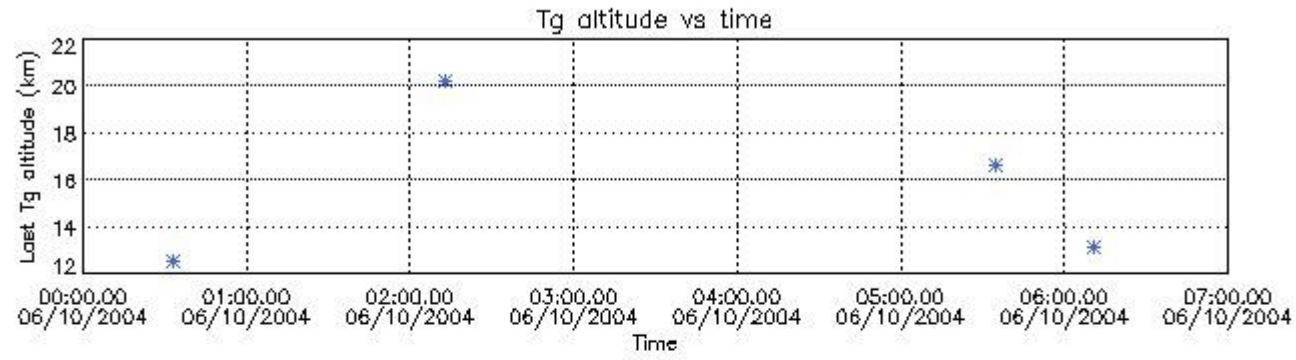


Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

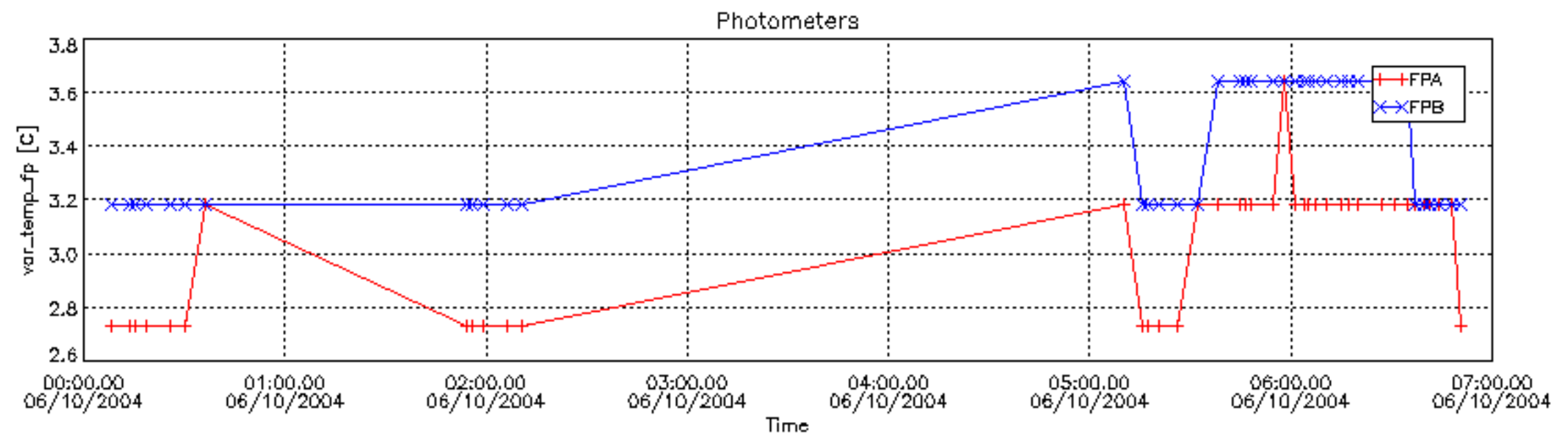
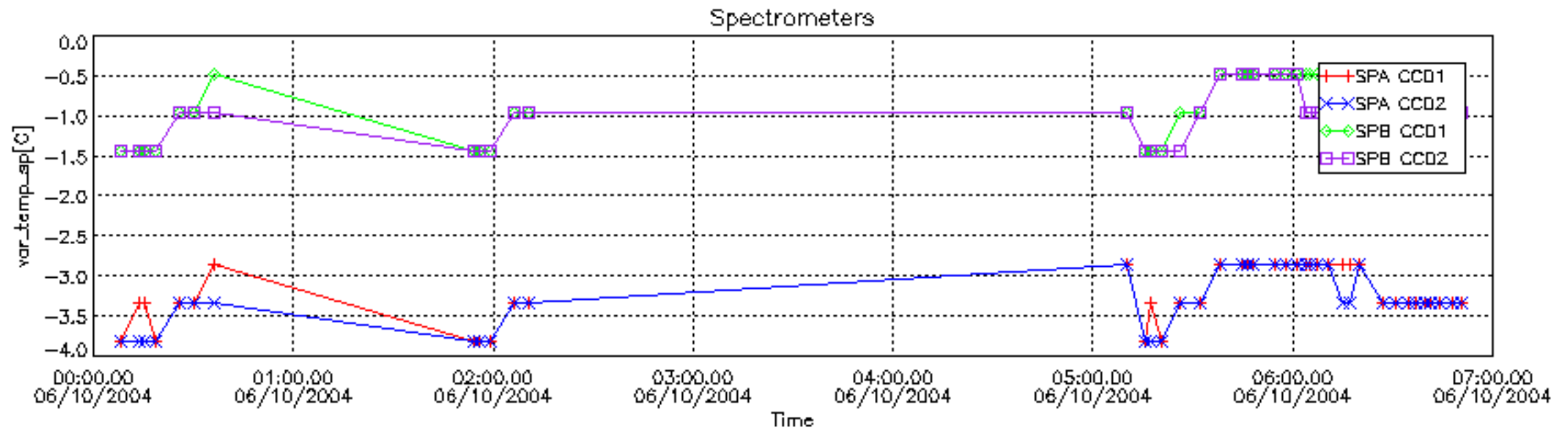
## Tangent altitude at which the star is lost

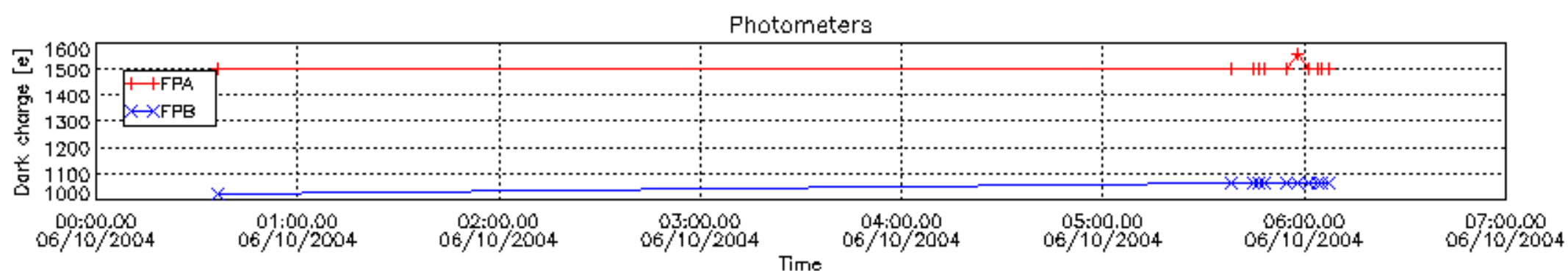
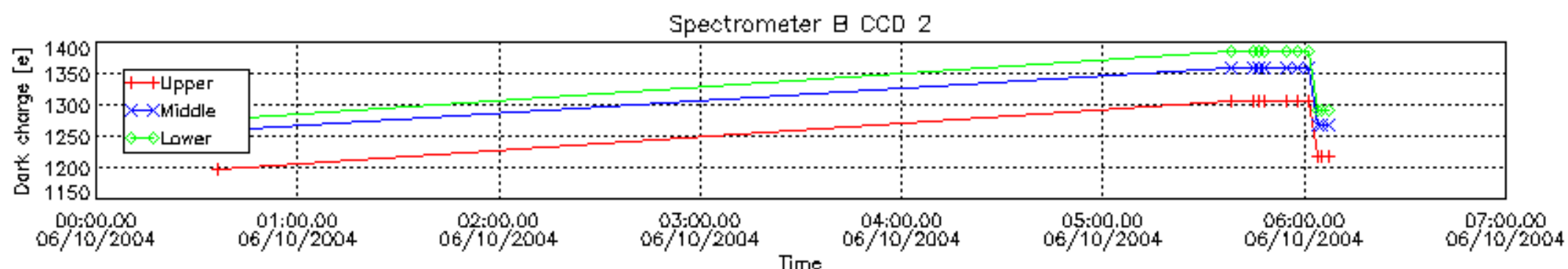
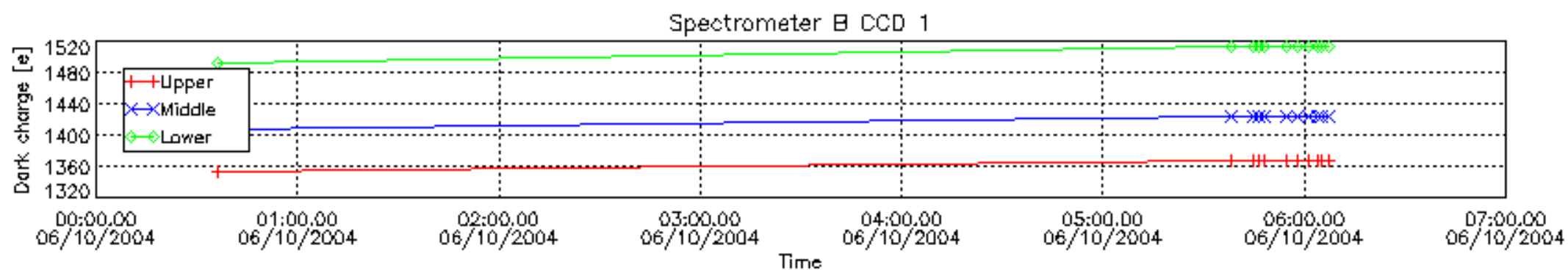
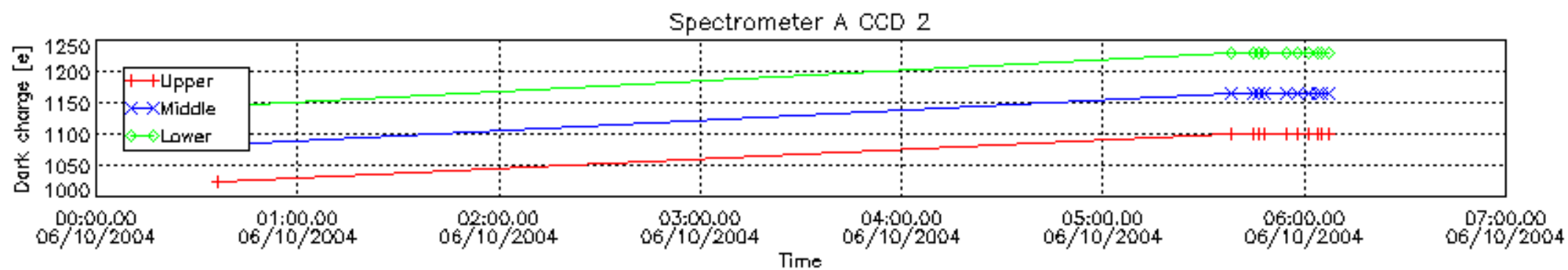
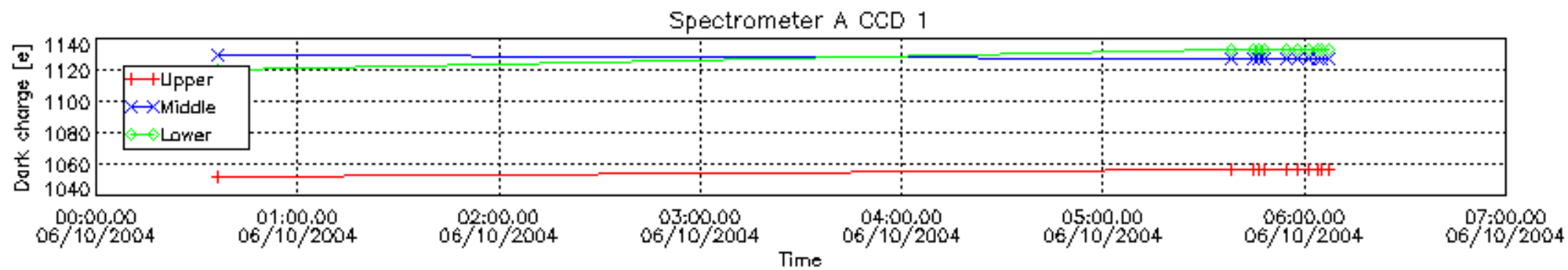


## 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

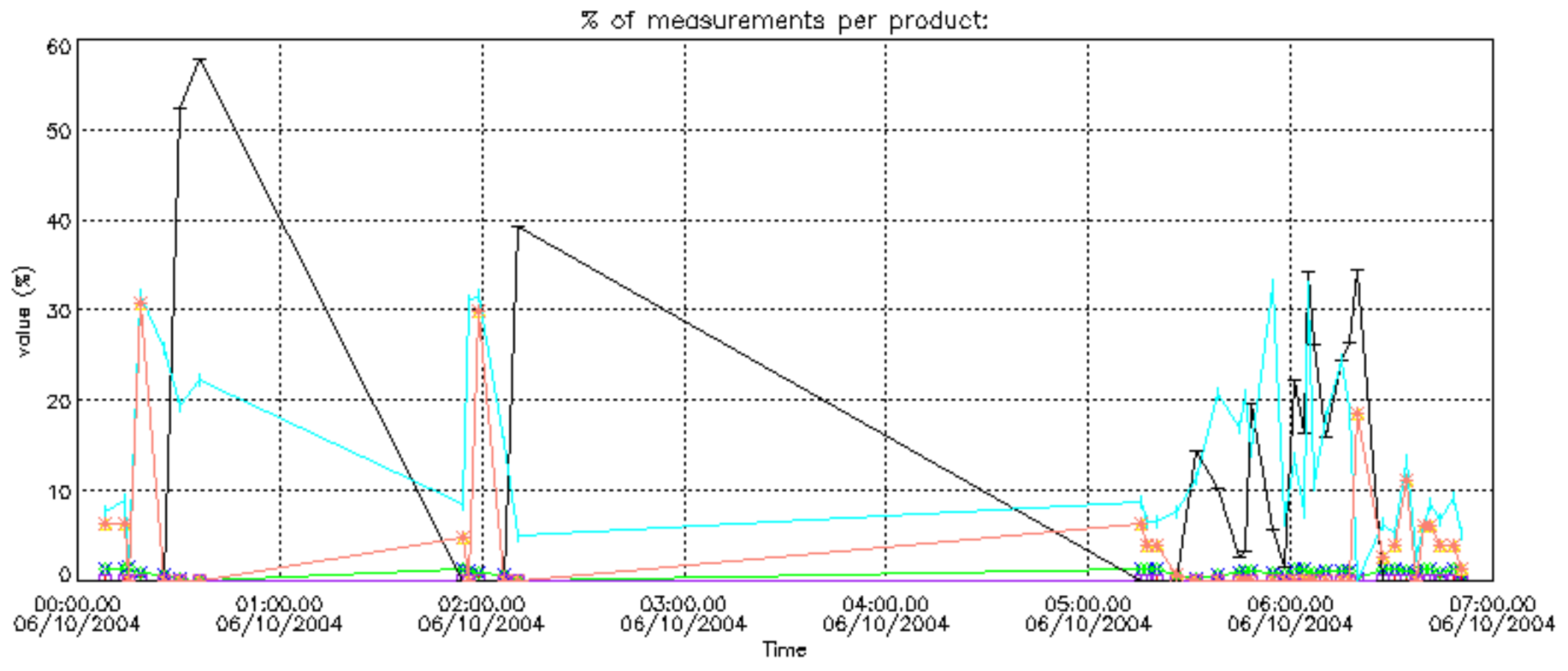
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: 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:	1461.7	1448.7	1460.7	1447.9
St. deviation:	5.1607	6.1164	5.8638	7.0727
Maximum:	1494.0	1485.0	1513.0	1505.0
Minimum:	1433.0	1417.0	1450.0	1428.0
Number of data:	15150.	15150.	32250.	32250.

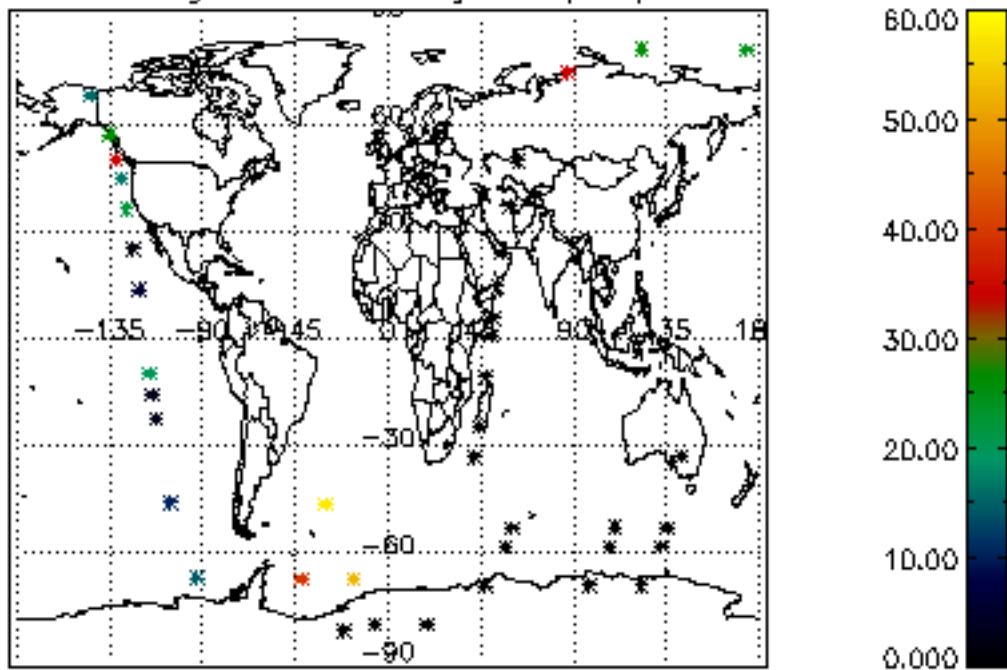




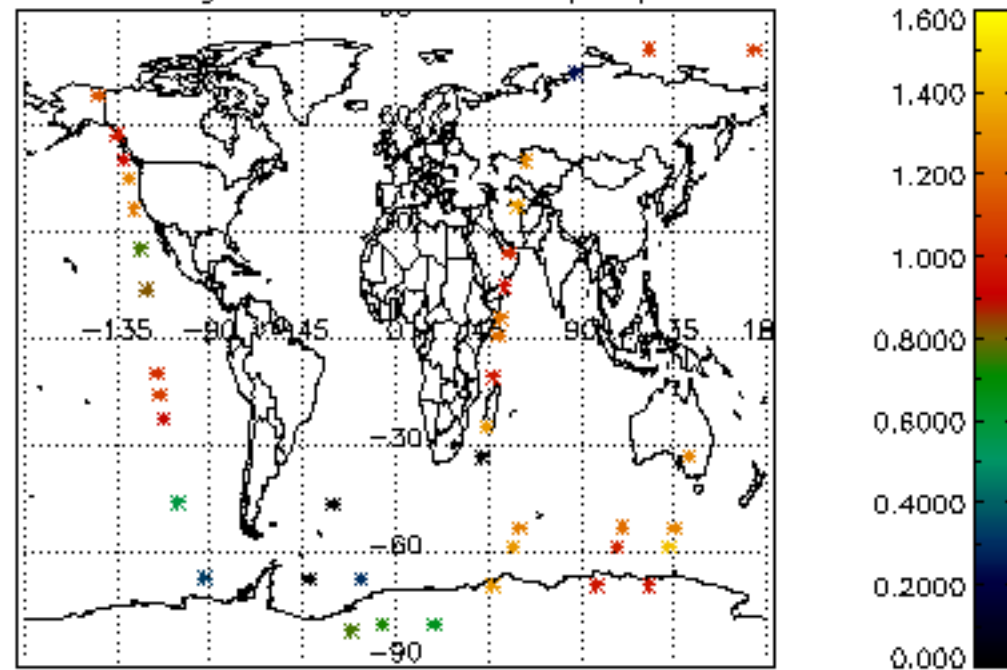




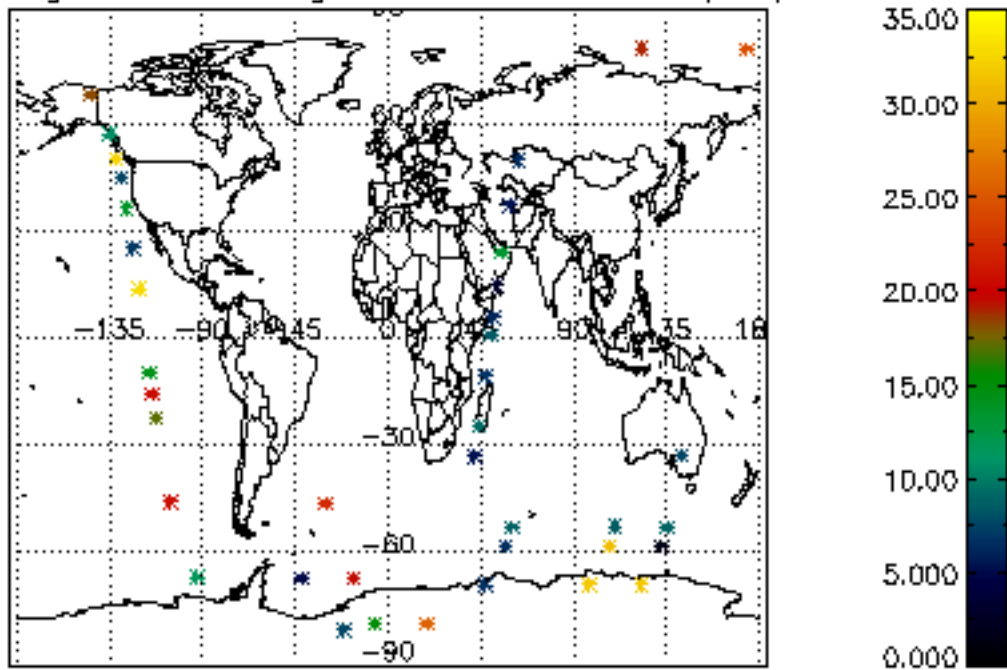
Percentage of cosmic ray hits per profile



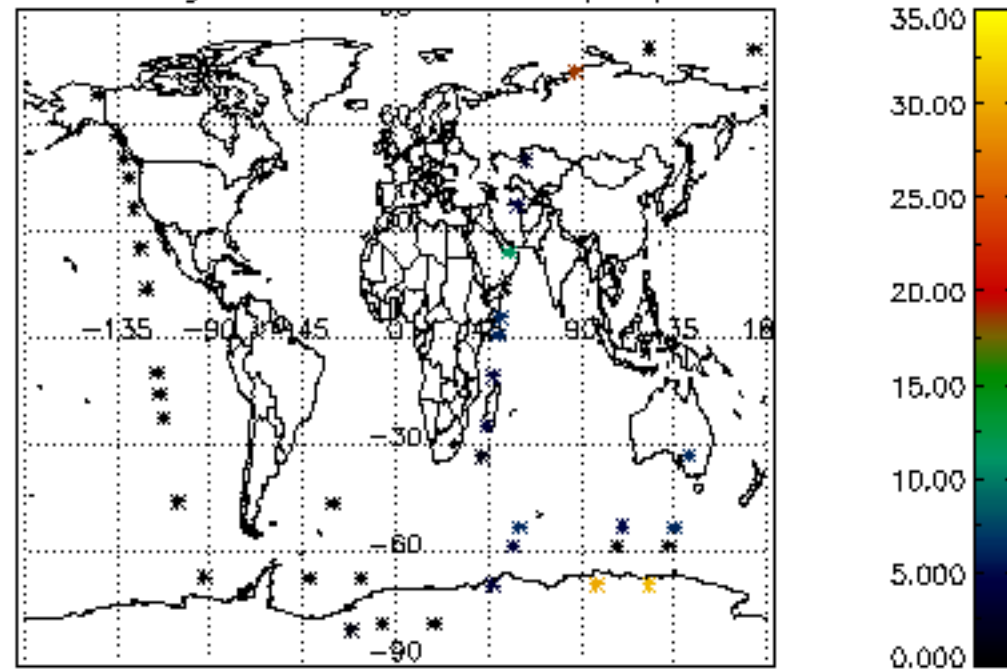
Percentage of datation errors per profile



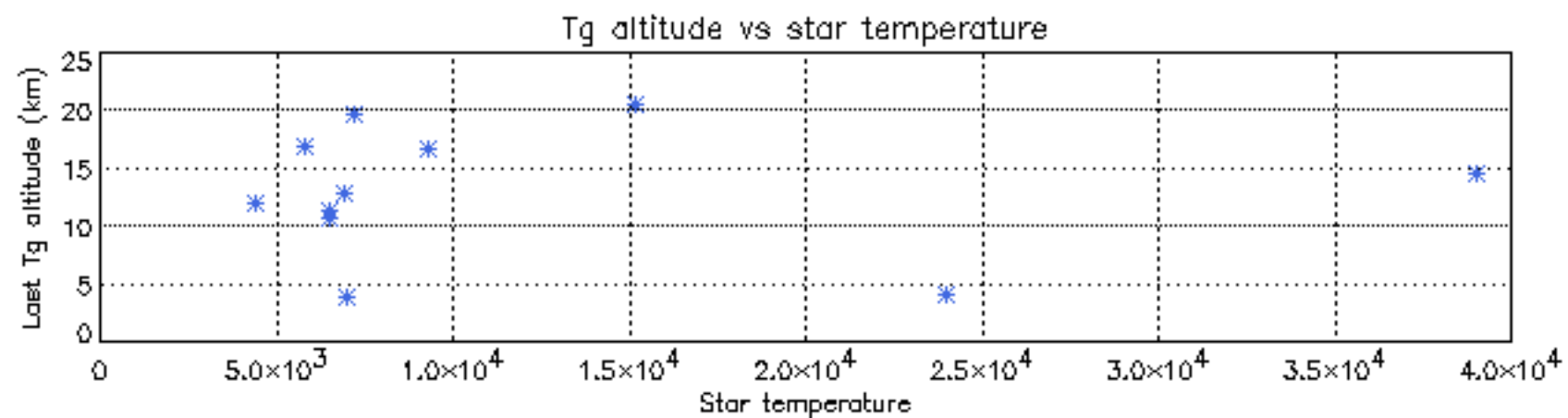
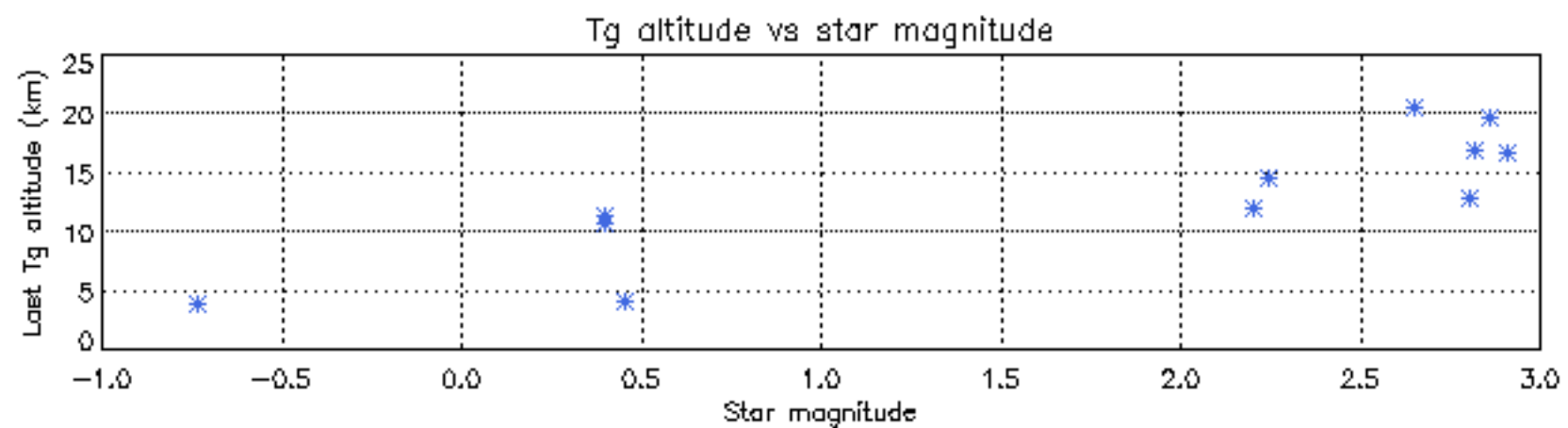
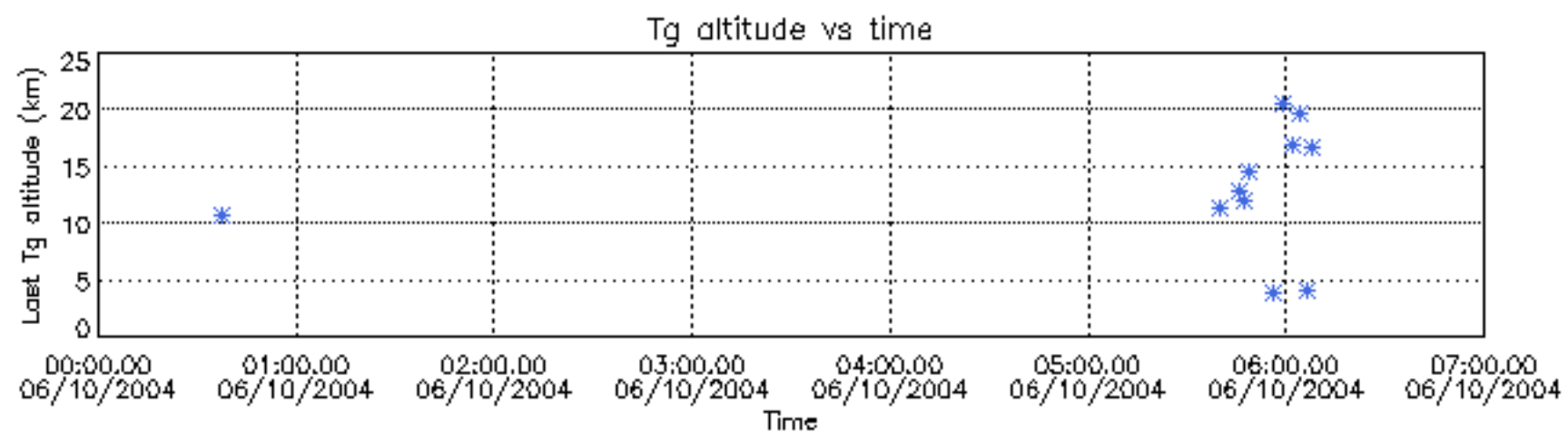
Percentage of star falling outside central band per profile



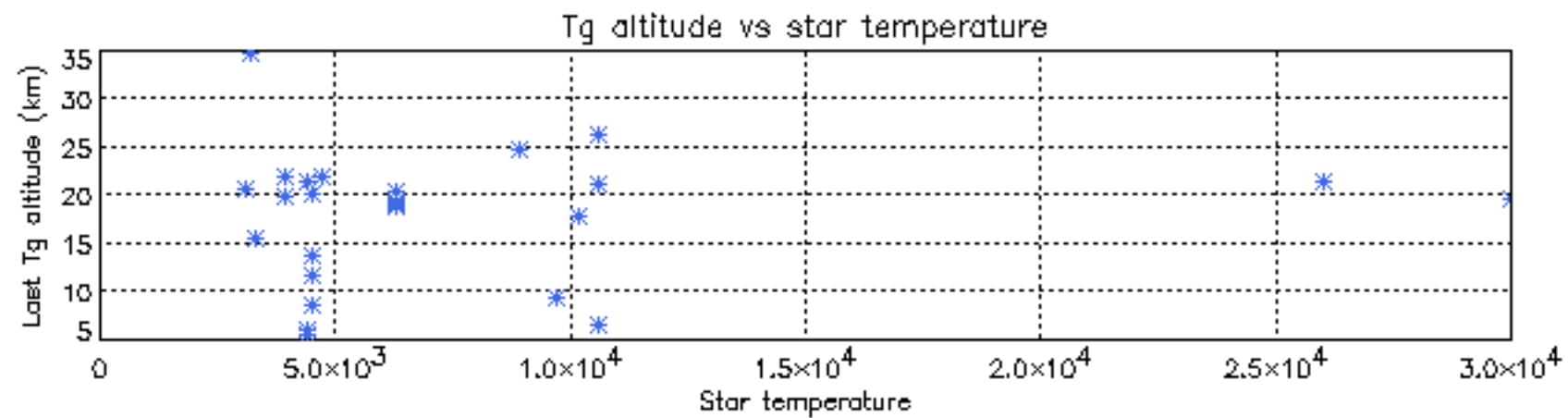
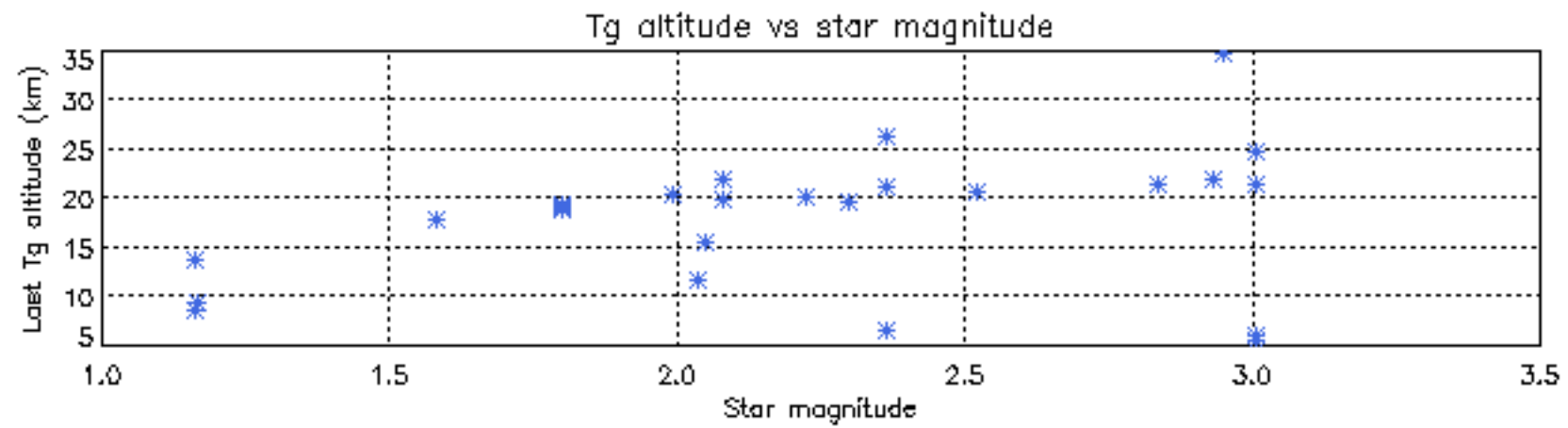
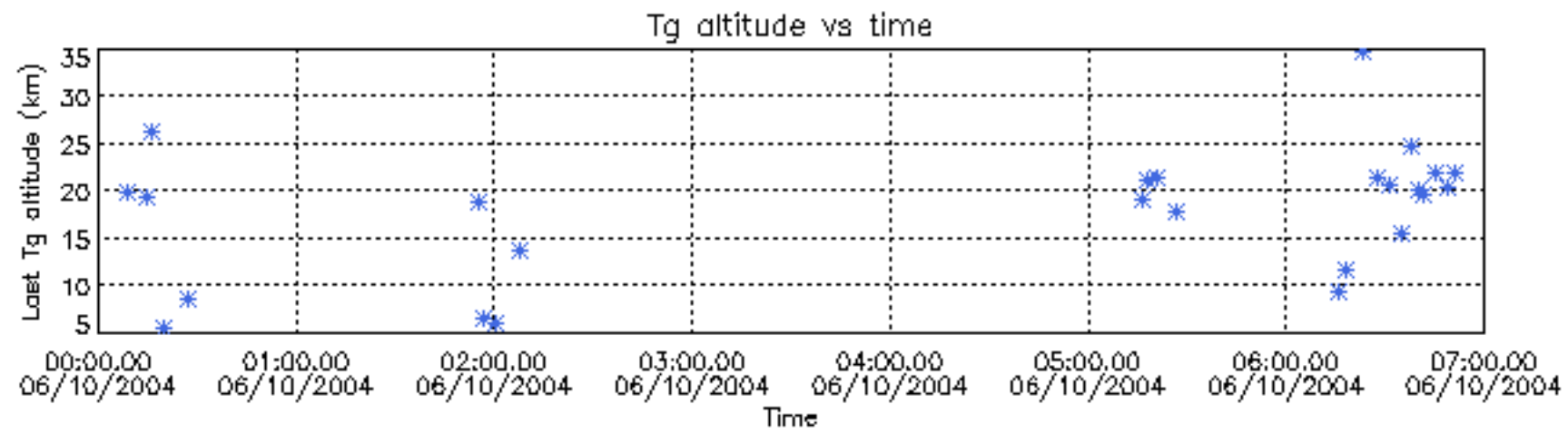
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

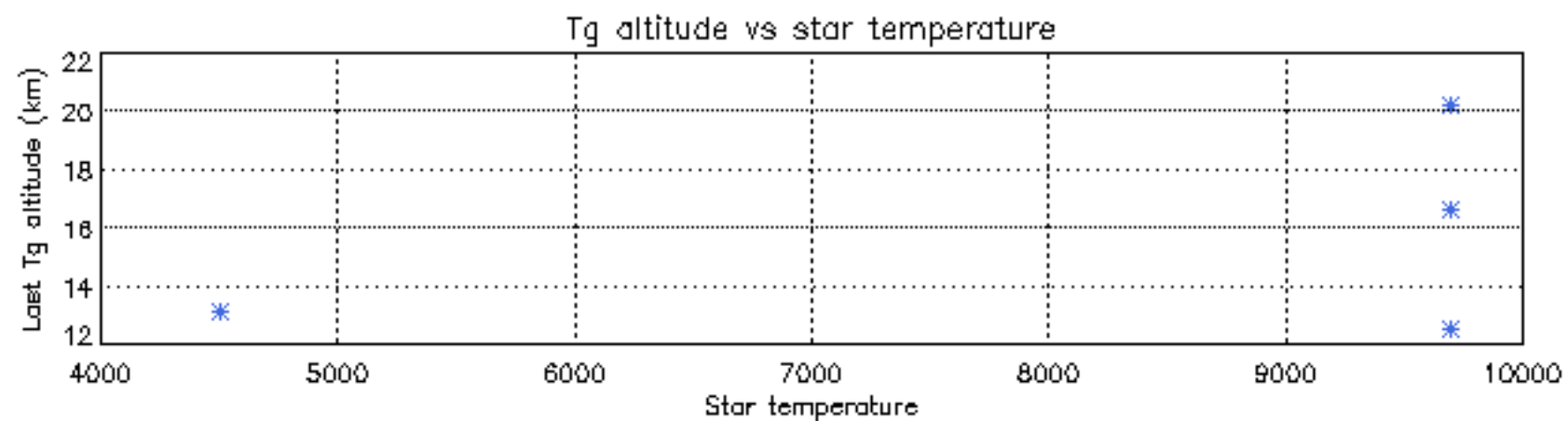
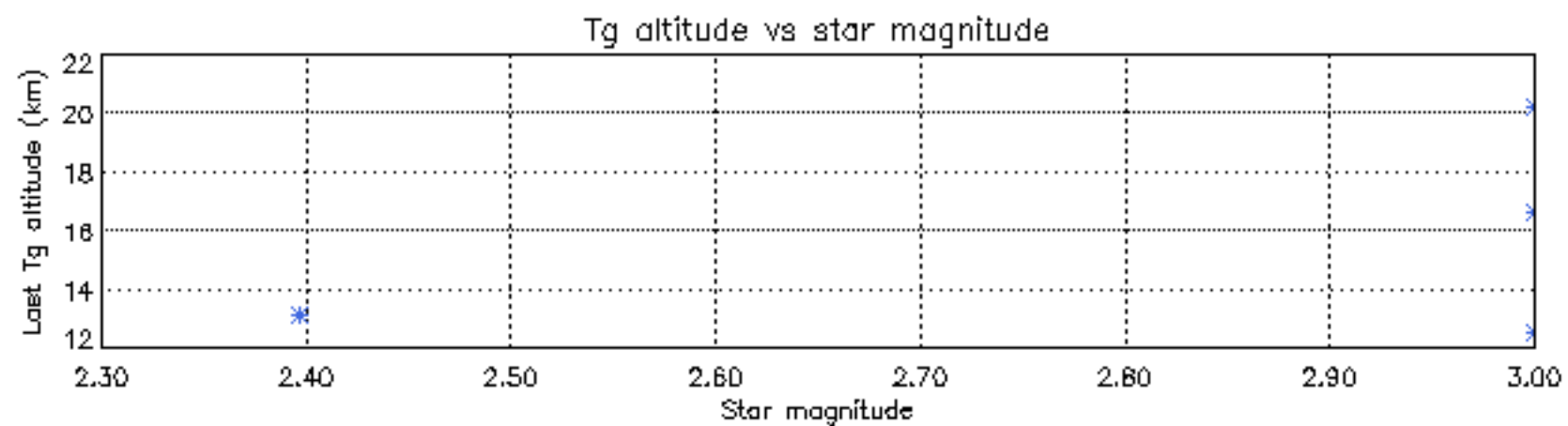
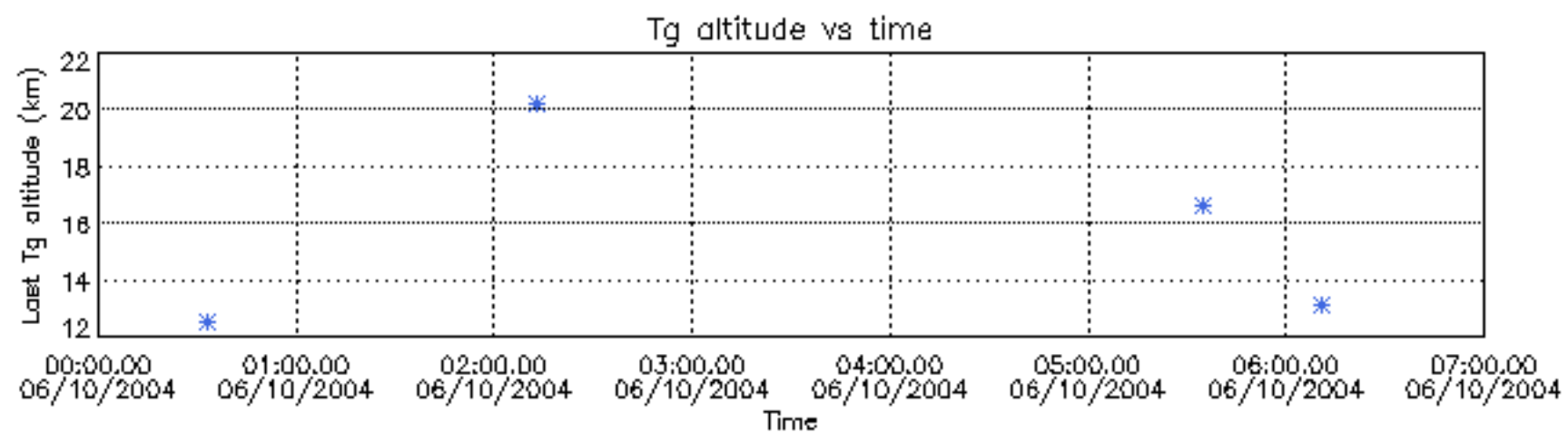


Tangent altitude at which the star is lost





Tangent altitude at which the star is lost



/nas1/ENVISAT/GOMOS/from\_DDS/GOM\_NL\_\_0PNPDE20041001\_013221\_000043242030\_00446\_13526\_0792.N1

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 4; -140.4; 01-OCT-2004 01:44:23; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;13526  
 5; -37.9; 01-OCT-2004 01:46:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13526  
 6; 171.9; 01-OCT-2004 01:49:35; Dark ; 56.5; 2; Alp Car ;-0.74; 7000;occ; 113; 0;13527  
 7; 308.8; 01-OCT-2004 01:51:52; Dark ; 65.5; 108; Alp Col ; 2.65; 15200;occ; 131; 0;13527  
 8; 602.9; 01-OCT-2004 01:56:46; Dark ; 38.0; 135; Bet Hyi ; 2.82; 5800;occ; 76; 0;13527  
 9; 732.6; 01-OCT-2004 01:58:56; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13527  
 10; 819.5; 01-OCT-2004 02:00:23; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;13527  
 11; 917.2; 01-OCT-2004 02:02:01; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;13527  
 12; 1141.6; 01-OCT-2004 02:05:45; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;13527  
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 15; 1944.2; 01-OCT-2004 02:19:08; Bright; 38.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 76; 0;13527  
 16; 2166.5; 01-OCT-2004 02:22:50; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;13527  
 17; 2383.4; 01-OCT-2004 02:26:27; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;13527  
 18; 2522.4; 01-OCT-2004 02:28:46; Bright; 65.5; 105; 6Bet Ari ; 2.64; 8900;occ; 131; 0;13527  
 19; 2655.0; 01-OCT-2004 02:30:59; Bright; 50.0; 53; 43Bet And ; 2.05; 3300;occ; 100; 0;13527  
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 21; 3027.7; 01-OCT-2004 02:37:11; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;13527  
 22; 3263.7; 01-OCT-2004 02:41:07; Bright; 54.5; 160; 23Gam Per ; 2.93; 4700;occ; 109; 0;13527  
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 5; -1704.1; 01-OCT-2004 02:58:55; Bright; 94.0; 107; 37The Aur ; 2.65; 11000;occ; 188; 0;13527  
 6; -1523.1; 01-OCT-2004 03:01:56; Bright; 59.5; 24; 66Alp Gem ; 1.58; 10200;occ; 119; 0;13527  
 7; -1234.3; 01-OCT-2004 03:06:45; Dark ; 107.5; 170; 27Eps Gem ; 3.00; 9700;occ; 215; 0;13527  
 8; -867.5; 01-OCT-2004 03:12:52; Dark ; 86.0; 8; 10Alp CMi ; 0.40; 6500;occ; 172; 0;13527  
 9; -447.3; 01-OCT-2004 03:19:52; Dark ; 52.0; 132; 15Rho Pup ; 2.80; 6900;occ; 104; 0;13527  
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 17; 820.0; 01-OCT-2004 03:41:00; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;13528  
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 19; 1141.4; 01-OCT-2004 03:46:21; Dark ; 45.5; 63; Bet Gru ; 2.15; 2800;occ; 91; 0;13528  
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 22; 1944.5; 01-OCT-2004 03:59:44; Bright; 38.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 76; 0;13528  
 23; 2166.4; 01-OCT-2004 04:03:26; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;13528  
 24; 2384.5; 01-OCT-2004 04:07:04; Bright; 36.5; 93; 53Bet Peg ; 2.52; 3100;occ; 73; 0;13528  
 25; 2520.9; 01-OCT-2004 04:09:20; Bright; 64.0; 105; 6Bet Ari ; 2.64; 8900;occ; 128; 0;13528  
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 27; 2947.6; 01-OCT-2004 04:16:27; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;13528  
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14; 603.4; 01-OCT-2004 05:17:59; Dark ; 38.5; 135; Bet Hyi ; 2.82; 5800;occ; 77; 0;13529
15; 733.3; 01-OCT-2004 05:20:09; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13529
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 3; 1142.5; 01-OCT-2004 20:32:22; Dark ; 45.5; 63; Bet Gru ; 2.15; 2800;occ; 91; 0;13538
 4; 1422.0; 01-OCT-2004 20:37:01; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;13538
 5; 1558.2; 01-OCT-2004 20:39:17; Dark ; 45.0; 52; 16Bet Cet ; 2.04; 4500;occ; 90; 0;13538
 6; 1946.6; 01-OCT-2004 20:45:46; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;13538
 7; 2167.5; 01-OCT-2004 20:49:27; Bright; 37.5; 90; 54Alp Peg ; 2.49; 11000;occ; 75; 0;13538
 8; 2385.0; 01-OCT-2004 20:53:04; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;13538
 9; 2508.1; 01-OCT-2004 20:55:07; Bright; 62.0; 105; 6Bet Ari ; 2.64; 8900;occ; 124; 0;13538
10; 2647.8; 01-OCT-2004 20:57:27; Bright; 47.0; 53; 43Bet And ; 2.05; 3300;occ; 94; 0;13538
11; 2946.2; 01-OCT-2004 21:02:25; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;13538
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16; 3905.9; 01-OCT-2004 21:18:25; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;13538
17; 3996.3; 01-OCT-2004 21:19:55; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;13538
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 8; 328.6; 01-OCT-2004 21:59:24; Dark ; 63.5; 108; Alp Col ; 2.65; 15200;occ; 127; 0;13539
 9; 604.4; 01-OCT-2004 22:03:59; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;13539
10; 737.0; 01-OCT-2004 22:06:12; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;13539
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13; 1142.3; 01-OCT-2004 22:12:57; Dark ; 45.0; 63; Bet Gru ; 2.15; 2800;occ; 90; 0;13539
14; 1421.7; 01-OCT-2004 22:17:37; Dark ; 45.0; 18; 24Alp PsA ; 1.17; 9700;occ; 90; 0;13539
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17; 2167.0; 01-OCT-2004 22:30:02; Bright; 38.0; 90; 54Alp Peg ; 2.49; 11000;occ; 76; 0;13539
18; 2384.6; 01-OCT-2004 22:33:40; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;13539
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21; 2945.6; 01-OCT-2004 22:43:01; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;13539
22; 3023.5; 01-OCT-2004 22:44:19; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;13539
23; 3252.2; 01-OCT-2004 22:48:07; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;13539
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28; 4189.9; 01-OCT-2004 23:03:45; Bright; 35.0; 174; 52Psi UMA ; 3.00; 4400;occ; 70; 0;13539
29; 4326.7; 01-OCT-2004 23:06:02; Bright; 93.5; 107; 37The Aur ; 2.65; 11000;occ; 187; 0;13539
30; 4513.9; 01-OCT-2004 23:09:09; Bright; 60.0; 24; 66Alp Gem ; 1.58; 10200;occ; 120; 0;13539
31; 4812.7; 01-OCT-2004 23:14:08; Dark ; 107.0; 170; 27Eps Gem ; 3.00; 9700;occ; 214; 0;13539
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23; 94.5; 01-OCT-2004 13:32:30; Dark ; 45.0; 161; Tau Pup ; 2.93; 4500;occ; 90; 0;13534
24; 178.7; 01-OCT-2004 13:33:54; Dark ; 52.0; 2; Alp Car ;-0.74; 7000;occ; 104; 0;13534
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26; 603.8; 01-OCT-2004 13:40:59; Dark ; 38.5; 135; Bet Hyi ; 2.82; 5800;occ; 77; 0;13534
27; 734.7; 01-OCT-2004 13:43:10; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;13534
28; 822.7; 01-OCT-2004 13:44:38; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;13534
29; 922.2; 01-OCT-2004 13:46:17; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;13534
30; 1141.1; 01-OCT-2004 13:49:56; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;13534
31; 1421.0; 01-OCT-2004 13:54:36; Dark ; 44.0; 18; 24Alp PsA ; 1.17; 9700;occ; 88; 0;13534
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8;-3386.5; 01-OCT-2004 15:55:41; Bright; 46.5; 53; 43Bet And ; 2.05; 3300;occ; 93; 0;13535
9;-3089.5; 01-OCT-2004 16:00:38; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;13535
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12;-2609.4; 01-OCT-2004 16:08:38; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;13535
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14;-2131.0; 01-OCT-2004 16:16:36; Bright; 39.0; 36; 50Alp UMa ; 1.80; 6300;occ; 78; 0;13535
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16;-1847.3; 01-OCT-2004 16:21:20; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;13535
17;-1707.5; 01-OCT-2004 16:23:40; Bright; 97.0; 107; 37The Aur ; 2.65; 11000;occ; 194; 0;13535

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18;-1522.4; 01-OCT-2004 16:26:45; Bright; 57.5; 24; 66Alp Gem ; 1.58; 10200;occ; 115; 0;13535
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
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27; 324.8; 01-OCT-2004 16:57:32; Dark ; 63.5; 108; Alp Col ; 2.65; 15200;occ; 127; 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
12;-2781.1; 01-OCT-2004 17:46:22; Bright; 51.5; 160; 23Gam Per ; 2.93; 4700;occ; 103; 0;13536
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21; -859.0; 01-OCT-2004 18:18:24; Dark ; 80.5; 8; 10Alp CMi ; 0.40; 6500;occ; 161; 0;13536
22; -438.5; 01-OCT-2004 18:25:25; Dark ; 50.5; 132; 15Rho Pup ; 2.80; 6900;occ; 101; 0;13536
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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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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12;-2782.2; 01-OCT-2004 19:26:57; Bright; 55.5; 160; 23Gam Per ; 2.93; 4700;occ; 111; 0;13537
13;-2608.7; 01-OCT-2004 19:29:51; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;13537
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15;-2130.1; 01-OCT-2004 19:37:49; Bright; 38.0; 36; 50Alp UMA ; 1.80; 6300;occ; 76; 0;13537
16;-2039.8; 01-OCT-2004 19:39:19; Bright; 52.0; 82; 48Bet UMA ; 2.37; 10600;occ; 104; 0;13537
17;-1846.3; 01-OCT-2004 19:42:33; Bright; 51.0; 174; 52Psi UMA ; 3.00; 4400;occ; 102; 0;13537
18;-1708.5; 01-OCT-2004 19:44:51; Bright; 95.5; 107; 37The Aur ; 2.65; 11000;occ; 191; 0;13537
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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21; -858.0; 01-OCT-2004 19:59:01; Dark ; 77.5; 8; 10Alp CMI ; 0.40; 6500;occ; 155; 0;13537
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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
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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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7; 331.7; 02-OCT-2004 01:20:39; Dark ; 61.0; 108; Alp Col ; 2.65; 15200;occ; 122; 0;13541
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16; 737.6; 02-OCT-2004 03:08:00; Dark ; 41.5; 143; Alp Hyi ; 2.86; 7200;occ; 83; 0;13542
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4;	-180.9;	05-OCT-2004	01:17:52;	Dark	;	48.0;	70;	Zet Pup	;	2.25;	39000;occ;	96;	0;	13583
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7;	398.3;	05-OCT-2004	01:27:31;	Dark	;	65.5;	108;	Alp Col	;	2.65;	15200;occ;	131;	0;	13584
8;	609.3;	05-OCT-2004	01:31:02;	Dark	;	41.0;	135;	Bet Hyi	;	2.82;	5800;occ;	82;	0;	13584
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17;	2383.9;	05-OCT-2004	02:00:36;	Bright;	41.5;	93;	53Bet Peg	;	2.52;	3100;occ;	83;	0;	13584	
18;	2618.7;	05-OCT-2004	02:04:31;	Bright;	49.0;	53;	43Bet And	;	2.05;	3300;occ;	98;	0;	13584	
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21;	3425.5;	05-OCT-2004	02:17:58;	Bright;	38.5;	49;	1Alp UMi	;	1.99;	6300;occ;	77;	0;	13584	

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2;	-2034.6;	05-OCT-2004	07:29:22;	Bright;	35.5;	82;	48Bet UMA	;	2.37;	10600;occ;	71;	0;	13587	
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7;	-796.3;	05-OCT-2004	07:50:00;	Dark	;	84.5;	8;	10Alp CMI	;	0.40;	6500;occ;	169;	0;	13587
8;	-393.0;	05-OCT-2004	07:56:44;	Dark	;	51.5;	132;	15Rho Pup	;	2.80;	6900;occ;	103;	0;	13587
9;	-268.0;	05-OCT-2004	07:58:49;	Dark	;	46.0;	65;	Lam Vel	;	2.20;	4400;occ;	92;	0;	13587
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15;	755.2;	05-OCT-2004	08:15:52;	Dark	;	40.0;	143;	Alp Hyi	;	2.86;	7200;occ;	80;	0;	13588
16;	842.7;	05-OCT-2004	08:17:19;	Dark	;	46.5;	9;	Alp Eri	;	0.45;	24000;occ;	93;	0;	13588
17;	958.9;	05-OCT-2004	08:19:15;	Dark	;	52.0;	157;	The1Eri	;	2.91;	9300;occ;	104;	0;	13588
18;	1157.8;	05-OCT-2004	08:22:34;	Dark	;	44.0;	84;	Alp Phe	;	2.40;	4500;occ;	88;	0;	13588
19;	1430.3;	05-OCT-2004	08:27:07;	Dark	;	44.5;	18;	24Alp PsA	;	1.17;	9700;occ;	89;	0;	13588
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4;	-3648.7;	05-OCT-2004	08:43:04;	Bright;	36.5;	93;	53Bet Peg	;	2.52;	3100;occ;	73;	0;	13588	
5;	-3419.1;	05-OCT-2004	08:46:53;	Bright;	48.5;	53;	43Bet And	;	2.05;	3300;occ;	97;	0;	13588	
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7;	-3114.5;	05-OCT-2004	08:51:58;	Bright;	40.5;	68;	18Alp Cas	;	2.22;	4500;occ;	81;	0;	13588	
8;	-3023.2;	05-OCT-2004	08:53:29;	Bright;	38.0;	89;	5Alp Cep	;	2.45;	8000;occ;	76;	0;	13588	
9;	-2830.8;	05-OCT-2004	08:56:42;	Bright;	49.5;	160;	23Gam Per	;	2.93;	4700;occ;	99;	0;	13588	
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12;	-2125.6;	05-OCT-2004	09:08:27;	Bright;	37.0;	36;	50Alp UMA	;	1.80;	6300;occ;	74;	0;	13588	
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14;	-1838.8;	05-OCT-2004	09:13:14;	Bright;	36.5;	174;	52Psi UMA	;	3.00;	4400;occ;	73;	0;	13588	
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19;	-392.0;	05-OCT-2004	09:37:20;	Dark	;	53.0;	132;	15Rho Pup	;	2.80;	6900;occ;	106;	0;	13588
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15; 1718.6; 07-OCT-2004 00:46:18; Dark ; 214.0; 165; 34Gam Eri ; 2.95; 3200;occ; 428; 0;13612
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21; 2998.1; 07-OCT-2004 01:07:37; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;13612
22; 3183.7; 07-OCT-2004 01:10:43; Bright; 49.0; 160; 23Gam Per ; 2.93; 4700;occ; 98; 0;13612
23; 3425.0; 07-OCT-2004 01:14:44; Bright; 39.5; 49; 1Alp UMi ; 1.99; 6300;occ; 79; 0;13612
24; 3573.7; 07-OCT-2004 01:17:13; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;13612
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18; 2755.6; 07-OCT-2004 02:44:11; Bright; 52.5; 173; 4Bet Tri ; 3.00; 8900;occ; 105; 0;13613
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16; 763.2; 07-OCT-2004 03:51:34; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;13614
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23; 243.7; 07-OCT-2004 10:25:18; Dark ; 47.5; 2; Alp Car ;-0.74; 7000;occ; 95; 0;13618
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26; 765.4; 07-OCT-2004 10:34:00; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;13618
27; 853.1; 07-OCT-2004 10:35:28; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;13618
28; 978.8; 07-OCT-2004 10:37:34; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;13618
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31; 1569.0; 07-OCT-2004 10:47:24; Dark ; 50.0; 52; 16Bet Cet ; 2.04; 4500;occ; 100; 0;13618
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 9; 2743.7; 07-OCT-2004 21:10:34; Bright; 54.5; 173; 4Bet Tri ; 3.00; 8900;occ; 109; 0;13624
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```

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9; 2777.9; 13-OCT-2004 21:22:39; Bright; 48.5; 73; 57Gam1And ; 2.26; 13100;occ; 97; 0;13710
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11; 2970.8; 13-OCT-2004 21:25:52; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;13710
12; 3099.7; 13-OCT-2004 21:28:01; Bright; 48.0; 160; 23Gam Per ; 2.93; 4700;occ; 96; 0;13710
13; 3238.2; 13-OCT-2004 21:30:20; Bright; 73.0; 149; 45Eps Per ; 2.89; 30000;occ; 146; 0;13710
14; 3423.9; 13-OCT-2004 21:33:25; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;13710
15; 3597.6; 13-OCT-2004 21:36:19; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;13710
16; 3916.1; 13-OCT-2004 21:41:38; Bright; 42.0; 36; 50Alp UMa ; 1.80; 6300;occ; 84; 0;13710
17; 4009.3; 13-OCT-2004 21:43:11; Bright; 39.0; 82; 48Bet UMa ; 2.37; 10600;occ; 78; 0;13710
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19; 4667.7; 13-OCT-2004 21:54:09; Bright; 95.5; 17; 78Bet Gem ; 1.16; 4500;occ; 191; 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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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
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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
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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
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4; -113.6; 13-OCT-2004 23:55:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13711
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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
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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
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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
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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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7;-3365.5; 13-OCT-2004 17:59:40; Bright; 49.0; 173; 4Bet Tri ; 3.00; 8900;occ; 98; 0;13708
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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
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16;-2438.6; 13-OCT-2004 19:55:43; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;13709
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19;-1824.5; 13-OCT-2004 20:05:57; Bright; 36.5; 174; 52Psi UMA ; 3.00; 4400;occ; 73; 0;13709
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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
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27; 131.4; 13-OCT-2004 20:38:33; Dark ; 48.0; 29; Bet Car ; 1.67; 10200;occ; 96; 0;13710
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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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12; 1185.7; 14-OCT-2004 01:57:55; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;13713
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
15; 2402.0; 14-OCT-2004 02:18:11; Bright; 39.0; 58; 21Alp And ; 2.07; 11000;occ; 78; 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
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22; 3233.4; 14-OCT-2004 02:32:03; Bright; 70.5; 149; 45Eps Per ; 2.89; 30000;occ; 141; 0;13713
23; 3423.2; 14-OCT-2004 02:35:12; Bright; 39.5; 49; 1Alp UMi ; 1.99; 6300;occ; 79; 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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8; -558.8; 14-OCT-2004 03:09:26; Dark ; 121.0; 8; 10Alp CMi ; 0.40; 6500;occ; 242; 0;13713
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11; -16.1; 14-OCT-2004 03:18:29; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;13713
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
17; 1032.1; 14-OCT-2004 03:35:57; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;13714
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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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21; 2402.4; 14-OCT-2004 03:58:48; Bright; 38.5; 58; 21Alp And ; 2.07; 11000;occ; 77; 0;13714
22; 2559.6; 14-OCT-2004 04:01:25; Bright; 45.0; 53; 43Bet And ; 2.05; 3300;occ; 90; 0;13714
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26; 2969.9; 14-OCT-2004 04:08:15; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;13714
27; 3096.6; 14-OCT-2004 04:10:22; Bright; 48.5; 160; 23Gam Per ; 2.93; 4700;occ; 97; 0;13714
28; 3231.2; 14-OCT-2004 04:12:36; Bright; 70.0; 149; 45Eps Per ; 2.89; 30000;occ; 140; 0;13714
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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
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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
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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

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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
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6; -777.2; 14-OCT-2004 06:27:00; Dark ; 57.5; 48; 30Alp Hya ; 1.98; 4100;occ; 115; 0;13715
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9; -111.4; 14-OCT-2004 06:38:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13715
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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
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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
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4; -3371.5; 14-OCT-2004 07:24:22; Bright; 47.5; 173; 4Bet Tri ; 3.00; 8900;occ; 95; 0;13716
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7; -3065.7; 14-OCT-2004 07:29:27; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;13716
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9; -2808.4; 14-OCT-2004 07:33:45; Bright; 71.5; 149; 45Eps Per ; 2.89; 30000;occ; 143; 0;13716
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16; -775.9; 14-OCT-2004 08:07:37; Dark ; 57.5; 48; 30Alp Hya ; 1.98; 4100;occ; 115; 0;13716
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19; -110.9; 14-OCT-2004 08:18:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13716
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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
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27; 1186.5; 14-OCT-2004 08:40:20; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;13717
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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

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10; 2886.2; 14-OCT-2004 20:52:51; Bright; 38.5; 68; 18Alp Cas ; 2.22; 4500;occ; 77; 0;13724
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13; 3213.8; 14-OCT-2004 20:58:18; Bright; 68.5; 149; 45Eps Per ; 2.89; 30000;occ; 137; 0;13724
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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
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17; 2657.4; 14-OCT-2004 22:29:38; Bright; 70.0; 173; 4Bet Tri ; 3.00; 8900;occ; 140; 0;13725
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19; 2886.0; 14-OCT-2004 22:33:27; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;13725
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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
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 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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/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20041014_102744_000060392031_00137_13718_1080.N1
 1;-4440.7; 14-OCT-2004 10:27:44; Dark ; 44.0; 52; 16Bet Cet ; 2.04; 4500;occ; 88; 23;13718
 2;-3871.2; 14-OCT-2004 10:37:14; Bright; 37.0; 140; 88Gam Peg ; 2.83; 26000;occ; 74; 0;13718
 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
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 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
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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

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```

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
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27; 605.7; 14-OCT-2004 20:14:50; Dark ; 71.0; 108; Alp Col ; 2.65; 15200;occ; 142; 0;13724
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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
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16; 2656.0; 15-OCT-2004 01:50:48; Bright; 47.0; 173; 4Bet Tri ; 3.00; 8900;occ; 94; 0;13727
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19; 2966.3; 15-OCT-2004 01:55:59; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;13727
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12; 613.2; 15-OCT-2004 02:57:21; Dark ; 69.5; 108; Alp Col ; 2.65; 15200;occ; 139; 0;13728
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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
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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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27; 3166.5; 15-OCT-2004 07:01:07; Bright; 54.5; 175; 39Del Per ; 3.01; 19400;occ; 109; 0;13730
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6; -3271.8; 15-OCT-2004 08:35:00; Bright; 46.5; 73; 57Gam1And ; 2.26; 13100;occ; 93; 0;13731
7; -3150.8; 15-OCT-2004 08:37:01; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;13731
8; -3069.3; 15-OCT-2004 08:38:23; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;13731
9; -2982.3; 15-OCT-2004 08:39:50; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;13731
10; -2870.5; 15-OCT-2004 08:41:42; Bright; 55.0; 175; 39Del Per ; 3.01; 19400;occ; 110; 0;13731
11; -2612.2; 15-OCT-2004 08:46:00; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;13731
12; -2432.6; 15-OCT-2004 08:49:00; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;13731
13; -2119.0; 15-OCT-2004 08:54:13; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;13731
14; -2025.1; 15-OCT-2004 08:55:47; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;13731
15; -1821.8; 15-OCT-2004 08:59:10; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;13731
16; -1484.6; 15-OCT-2004 09:04:48; Bright; 91.0; 24; 66Alp Gem ; 1.58; 10200;occ; 182; 0;13731
17; -1208.5; 15-OCT-2004 09:09:24; Bright; 42.5; 22; 32Alp Leo ; 1.36; 15200;occ; 85; 0;13731
18; -766.2; 15-OCT-2004 09:16:46; Dark ; 58.0; 48; 30Alp Hya ; 1.98; 4100;occ; 116; 0;13731
19; -508.0; 15-OCT-2004 09:21:04; Dark ; 160.0; 8; 10Alp CMi ; 0.40; 6500;occ; 320; 0;13731
20; -245.6; 15-OCT-2004 09:25:27; Dark ; 40.5; 113; Mu Vel ; 2.69; 5000;occ; 81; 0;13731
21; -102.4; 15-OCT-2004 09:27:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13731
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
28; 888.3; 15-OCT-2004 09:44:20; Dark ; 47.0; 9; Alp Eri ; 0.45; 24000;occ; 94; 0;13732
29; 1041.9; 15-OCT-2004 09:46:54; Dark ; 46.5; 157; The1Eri ; 2.91; 9300;occ; 93; 0;13732
30; 1189.1; 15-OCT-2004 09:49:21; Dark ; 40.5; 84; Alp Phe ; 2.40; 4500;occ; 81; 0;13732
31; 1585.2; 15-OCT-2004 09:55:57; Dark ; 42.0; 52; 16Bet Cet ; 2.04; 4500;occ; 84; 0;13732
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20041015_095629_000060472031_00151_13732_1088.N1
1; -4418.7; 15-OCT-2004 09:56:29; Dark ; 42.5; 52; 16Bet Cet ; 2.04; 4500;occ; 85; 64;13732

```



```

2;-3871.5; 15-OCT-2004 10:05:36; Bright; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;13732
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
1;-4448.3; 15-OCT-2004 11:36:36; Dark ; 48.5; 52; 16Bet Cet ; 2.04; 4500;occ; 97; 5;13733
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
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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

```

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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
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL_0PNPDK20041015_145137_000059102031_00154_13735_1091.N1
1;-4818.8; 15-OCT-2004 14:51:37; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 60;13735
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
1; 632.6; 15-OCT-2004 19:43:40; Dark ; 71.0; 108; Alp Col ; 2.65; 15200;occ; 142; 14;13738
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
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17; 2647.4; 15-OCT-2004 21:57:51; Bright; 69.0; 173; 4Bet Tri ; 3.00; 8900;occ; 138; 0;13739
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27; 4214.7; 15-OCT-2004 22:23:58; Bright; 38.5; 174; 52Psi UMa ; 3.00; 4400;occ; 77; 0;13739
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 3; 140.5; 15-OCT-2004 22:56:40; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;13740
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19; 2963.9; 15-OCT-2004 23:43:44; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;13740
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/nas1/ENVISAT/GOMOS/from\_DDS/GOM\_NL\_\_0PNPDK20041015\_163145\_000059142031\_00155\_13736\_1092.N1

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/nas1/ENVISAT/GOMOS/from\_DDS/GOM\_NL\_\_0PNPDE20041016\_002219\_000055472031\_00159\_13740\_0888.N1

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28; 4214.9; 16-OCT-2004 01:45:10; Bright; 38.0; 174; 52Psi UMa ; 3.00; 4400;occ; 76; 0;13741
29; 4684.4; 16-OCT-2004 01:53:00; Dark ; 107.0; 17; 78Bet Gem ; 1.16; 4500;occ; 214; 0;13741
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 4; 4.0; 16-OCT-2004 02:15:35; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;13742
 5; 142.0; 16-OCT-2004 02:17:53; Dark ; 41.5; 29; Bet Car ; 1.67; 10200;occ; 83; 0;13742
 6; 261.7; 16-OCT-2004 02:19:53; Dark ; 47.5; 161; Tau Pup ; 2.93; 4500;occ; 95; 0;13742
 7; 342.9; 16-OCT-2004 02:21:14; Dark ; 58.5; 2; Alp Car ;-0.74; 7000;occ; 117; 0;13742
 8; 445.8; 16-OCT-2004 02:22:57; Dark ; 75.5; 177; 1Zet CMa ; 3.02; 26000;occ; 151; 0;13742
 9; 634.3; 16-OCT-2004 02:26:06; Dark ; 66.0; 108; Alp Col ; 2.65; 15200;occ; 132; 0;13742
10; 804.6; 16-OCT-2004 02:28:56; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;13742
11; 891.0; 16-OCT-2004 02:30:22; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;13742
12; 1047.0; 16-OCT-2004 02:32:58; Dark ; 46.5; 157; The1Eri ; 2.91; 9300;occ; 93; 0;13742
13; 1191.3; 16-OCT-2004 02:35:23; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;13742
14; 1586.6; 16-OCT-2004 02:41:58; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;13742
15; 2164.2; 16-OCT-2004 02:51:36; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;13742
16; 2400.6; 16-OCT-2004 02:55:32; Bright; 40.0; 58; 21Alp And ; 2.07; 11000;occ; 80; 0;13742
17; 2549.2; 16-OCT-2004 02:58:01; Bright; 45.0; 53; 43Bet And ; 2.05; 3300;occ; 90; 0;13742
18; 2644.4; 16-OCT-2004 02:59:36; Bright; 47.0; 173; 4Bet Tri ; 3.00; 8900;occ; 94; 0;13742
19; 2756.6; 16-OCT-2004 03:01:28; Bright; 46.0; 73; 57Gam1And ; 2.26; 13100;occ; 92; 0;13742
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21; 2962.9; 16-OCT-2004 03:04:54; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;13742
22; 3057.4; 16-OCT-2004 03:06:29; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;13742
23; 3182.6; 16-OCT-2004 03:08:34; Bright; 70.0; 149; 45Eps Per ; 2.89; 30000;occ; 140; 0;13742
24; 3423.5; 16-OCT-2004 03:12:35; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;13742
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 3; -2024.6; 16-OCT-2004 05:02:59; Bright; 38.5; 82; 48Bet UMa ; 2.37; 10600;occ; 77; 0;13743
 4; -1821.4; 16-OCT-2004 05:06:22; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 0;13743
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 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
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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

```

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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
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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
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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
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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
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20041016_074403_000060642031_00164_13745_1095.N1
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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
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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
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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
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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
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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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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
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7;-3073.0; 16-OCT-2004 09:47:18; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;13746
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9;-2860.3; 16-OCT-2004 09:50:51; Bright; 65.5; 149; 45Eps Per ; 2.89; 30000;occ; 131; 0;13746
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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
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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
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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
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6;-3284.1; 16-OCT-2004 11:24:23; Bright; 47.0; 73; 57Gam1And ; 2.26; 13100;occ; 94; 0;13747
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11;-2613.0; 16-OCT-2004 13:16:10; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;13748
12;-2429.2; 16-OCT-2004 13:19:14; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;13748
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

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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
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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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16;-1347.3; 16-OCT-2004 15:17:52; Dark ; 120.0; 17; 78Bet Gem ; 1.16; 4500;occ; 240; 0;13749
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24; 642.7; 16-OCT-2004 15:51:02; Dark ; 68.5; 108; Alp Col ; 2.65; 15200;occ; 137; 0;13750
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15;-1346.4; 16-OCT-2004 16:58:28; Dark ; 106.0; 17; 78Bet Gem ; 1.16; 4500;occ; 212; 0;13750
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19; 144.3; 16-OCT-2004 17:23:19; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;13751
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21; 461.8; 16-OCT-2004 17:28:37; Dark ; 72.5; 177; 1Zet CMA ; 3.02; 26000;occ; 145; 0;13751
22; 645.9; 16-OCT-2004 17:31:41; Dark ; 70.0; 108; Alp Col ; 2.65; 15200;occ; 140; 0;13751
23; 806.8; 16-OCT-2004 17:34:22; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;13751
24; 893.5; 16-OCT-2004 17:35:48; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;13751
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3; 1588.3; 16-OCT-2004 21:08:35; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;13753

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6; 2546.7; 16-OCT-2004 21:24:34; Bright; 42.0; 53; 43Bet And ; 2.05; 3300;occ; 84; 0;13753
7; 2637.5; 16-OCT-2004 21:26:04; Bright; 59.0; 173; 4Bet Tri ; 3.00; 8900;occ; 118; 0;13753
8; 2750.9; 16-OCT-2004 21:27:58; Bright; 47.0; 73; 57Gam1And ; 2.26; 13100;occ; 94; 0;13753
9; 2881.2; 16-OCT-2004 21:30:08; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;13753
10; 2962.0; 16-OCT-2004 21:31:29; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;13753
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13; 3918.4; 16-OCT-2004 21:47:25; Bright; 39.5; 36; 50Alp UMa ; 1.80; 6300;occ; 79; 0;13753
14; 4012.1; 16-OCT-2004 21:48:59; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;13753
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16; 4690.7; 16-OCT-2004 22:00:18; Dark ; 128.0; 17; 78Bet Gem ; 1.16; 4500;occ; 256; 0;13753
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5; 352.3; 16-OCT-2004 22:28:35; Dark ; 49.5; 2; Alp Car ; -0.74; 7000;occ; 99; 0;13754
6; 464.8; 16-OCT-2004 22:30:27; Dark ; 74.5; 177; 1Zet CMa ; 3.02; 26000;occ; 149; 0;13754
7; 649.9; 16-OCT-2004 22:33:33; Dark ; 69.0; 108; Alp Col ; 2.65; 15200;occ; 138; 0;13754
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16; 2636.9; 16-OCT-2004 23:06:40; Bright; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;13754
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6; 441.1; 17-OCT-2004 00:10:40; Dark ; 218.5; 1; 9Alp CMa ; -1.44; 11000;occ; 437; 0;13755
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3;-3491.1; 17-OCT-2004 09:08:43; Bright; 40.0; 53; 43Bet And ; 2.05; 3300;occ; 80; 0;13760  
4;-3403.1; 17-OCT-2004 09:10:11; Bright; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;13760  
5;-3289.1; 17-OCT-2004 09:12:05; Bright; 47.0; 73; 57Gam1And ; 2.26; 13100;occ; 94; 0;13760  
6;-3156.0; 17-OCT-2004 09:14:18; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;13760  
7;-3075.4; 17-OCT-2004 09:15:39; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;13760  
8;-2972.3; 17-OCT-2004 09:17:22; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;13760  
9;-2612.2; 17-OCT-2004 09:23:22; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;13760  
10;-2426.5; 17-OCT-2004 09:26:28; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;13760  
11;-2117.6; 17-OCT-2004 09:31:37; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;13760  
12;-2023.4; 17-OCT-2004 09:33:11; Bright; 35.0; 82; 48Bet UMa ; 2.37; 10600;occ; 70; 0;13760  
13;-1819.6; 17-OCT-2004 09:36:35; Bright; 38.0; 174; 52Psi UMa ; 3.00; 4400;occ; 76; 0;13760  
14;-1340.6; 17-OCT-2004 09:44:34; Dark ; 110.5; 17; 78Bet Gem ; 1.16; 4500;occ; 221; 0;13760  
15; -744.7; 17-OCT-2004 09:54:30; Dark ; 58.0; 48; 30Alp Hya ; 1.98; 4100;occ; 116; 0;13760  
16; -239.4; 17-OCT-2004 10:02:55; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;13760  
17; -85.5; 17-OCT-2004 10:05:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13760  
18; 19.8; 17-OCT-2004 10:07:14; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;13761  
19; 146.5; 17-OCT-2004 10:09:21; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;13761  
20; 358.7; 17-OCT-2004 10:12:53; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;13761  
21; 462.2; 17-OCT-2004 10:14:36; Dark ; 175.5; 1; 9Alp CMA ; -1.44; 11000;occ; 351; 0;13761  
22; 809.2; 17-OCT-2004 10:20:23; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;13761  
23; 896.2; 17-OCT-2004 10:21:50; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;13761  
24; 1056.7; 17-OCT-2004 10:24:31; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;13761  
25; 1195.1; 17-OCT-2004 10:26:49; Dark ; 40.5; 84; Alp Phe ; 2.40; 4500;occ; 81; 0;13761  
26; 1589.8; 17-OCT-2004 10:33:24; Dark ; 0.0; 52; 16Bet Cet ; 2.04; 4500;occ; 81; 0;13761

/nas1/ENVISAT/GOMOS/from\_DDS/GOM\_NL\_\_0PNPDK20041017\_103326\_000018402031\_00180\_13761\_1106.N1

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3;-3634.7; 17-OCT-2004 10:46:55; Bright; 38.5; 58; 21Alp And ; 2.07; 11000;occ; 77; 0;13761
4;-3491.7; 17-OCT-2004 10:49:18; Bright; 42.0; 53; 43Bet And ; 2.05; 3300;occ; 84; 0;13761
5;-3403.8; 17-OCT-2004 10:50:46; Bright; 46.5; 173; 4Bet Tri ; 3.00; 8900;occ; 93; 0;13761
6;-3289.7; 17-OCT-2004 10:52:40; Bright; 47.5; 73; 57Gam1And ; 2.26; 13100;occ; 95; 0;13761
7;-3156.0; 17-OCT-2004 10:54:54; Bright; 40.5; 68; 18Alp Cas ; 2.22; 4500;occ; 81; 0;13761
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
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20041017_135438_000056822031_00182_13763_1108.N1
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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
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20041017_213849_000060812031_00186_13767_0899.N1
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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
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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
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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
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20041017_231926_000060912031_00187_13768_0900.N1
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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
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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
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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
25; 4217.5; 18-OCT-2004 00:41:59; Bright; 37.5; 174; 52Psi UMA ; 3.00; 4400;occ; 75; 0;13769
26; 4700.6; 18-OCT-2004 00:50:02; Dark ; 135.0; 17; 78Bet Gem ; 1.16; 4500;occ; 270; 0;13769
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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
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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
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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
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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
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```



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 15;-2423.9; 17-OCT-2004 19:30:06; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;13766  
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 25; 363.7; 17-OCT-2004 20:16:34; Dark ; 61.5; 2; Alp Car ; -0.74; 7000;occ; 123; 0;13767  
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/nas1/ENVISAT/GOMOS/from\_DDS/GOM\_NL\_\_0PNPDE20041018\_010002\_000041942031\_00188\_13769\_0901.N1

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/nas1/ENVISAT/GOMOS/from\_DDS/GOM\_NL\_\_0PNPDE20041018\_021230\_000060742031\_00189\_13770\_0902.N1

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/nas1/ENVISAT/GOMOS/from\_DDS/GOM\_NL\_\_0PNPDE20041018\_035332\_000058562031\_00190\_13771\_0903.N1

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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
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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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14; -1318.8; 19-OCT-2004 15:24:05; Dark ; 125.5; 17; 78Bet Gem ; 1.16; 4500;occ; 251; 0;13792
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16; -232.3; 19-OCT-2004 15:42:12; Dark ; 41.5; 113; Mu Vel ; 2.69; 5000;occ; 83; 0;13792
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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
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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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5;-1324.2; 19-OCT-2004 03:39:48; Dark ; 142.5; 17; 78Bet Gem ; 1.16; 4500;occ; 285; 0;13785
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11; 378.8; 19-OCT-2004 04:08:11; Dark ; 52.0; 2; Alp Car ; -0.74; 7000;occ; 104; 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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5;-1323.6; 19-OCT-2004 05:20:25; Dark ; 125.0; 17; 78Bet Gem ; 1.16; 4500;occ; 250; 0;13786
6; -724.6; 19-OCT-2004 05:30:24; Dark ; 59.0; 48; 30Alp Hya ; 1.98; 4100;occ; 118; 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
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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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12; 2953.7; 19-OCT-2004 21:37:06; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;13796
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6; 385.7; 20-OCT-2004 00:15:29; Dark ; 54.5; 2; Alp Car ; -0.74; 7000;occ; 109; 0;13798
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16; 2725.7; 20-OCT-2004 00:54:30; Bright; 46.0; 73; 57Gam1And ; 2.26; 13100;occ; 92; 0;13798
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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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16;-718.5; 19-OCT-2004 17:14:42; Dark ; 56.5; 48; 30Alp Hya ; 1.98; 4100;occ; 113; 0;13793
17;-231.4; 19-OCT-2004 17:22:49; Dark ; 42.5; 113; Mu Vel ; 2.69; 5000;occ; 85; 0;13793
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19; 45.6; 19-OCT-2004 17:27:26; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;13794
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22; 586.9; 19-OCT-2004 17:36:27; Dark ; 197.0; 1; 9Alp CMA ;-1.44; 11000;occ; 394; 0;13794
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23; 385.1; 19-OCT-2004 19:13:41; Dark ; 55.0; 2; Alp Car ;-0.74; 7000;occ; 110; 0;13795
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11;-3163.9; 19-OCT-2004 19:55:08; Bright; 43.5; 68; 18Alp Cas ; 2.22; 4500;occ; 87; 0;13795

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16;-2117.4; 19-OCT-2004 20:12:35; Bright; 40.0; 36; 50Alp UMa ; 1.80; 6300;occ; 80; 0;13795
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22; -64.1; 19-OCT-2004 20:46:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13795
23; 27.9; 19-OCT-2004 20:48:20; Dark ; 43.5; 46; Del Vel ; 1.95; 10600;occ; 87; 0;13796
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6; 2428.7; 20-OCT-2004 20:56:44; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;13810
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8; 2719.7; 20-OCT-2004 21:01:35; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;13810
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3;	-58.7;	20-OCT-2004	21:55:52;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	13810
4;	209.3;	20-OCT-2004	22:00:20;	Dark	;	65.5;	117;	Pi Pup	;	2.71;	3800;occ;	131;	0;	13811
5;	398.7;	20-OCT-2004	22:03:30;	Dark	;	50.5;	2;	Alp Car	;	-0.74;	7000;occ;	101;	0;	13811
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9;	1594.3;	20-OCT-2004	22:23:25;	Dark	;	47.5;	52;	16Bet Cet	;	2.04;	4500;occ;	95;	0;	13811
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13;	2531.0;	20-OCT-2004	22:39:02;	Bright;	;	40.5;	53;	43Bet And	;	2.05;	3300;occ;	81;	0;	13811
14;	2719.1;	20-OCT-2004	22:42:10;	Bright;	;	42.0;	73;	57Gam1And	;	2.26;	13100;occ;	84;	0;	13811
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20;	3918.1;	20-OCT-2004	23:02:09;	Bright;	;	37.0;	36;	50Alp UMa	;	1.80;	6300;occ;	74;	0;	13811
21;	4012.2;	20-OCT-2004	23:03:43;	Bright;	;	37.0;	82;	48Bet UMa	;	2.37;	10600;occ;	74;	0;	13811
22;	4221.1;	20-OCT-2004	23:07:12;	Bright;	;	38.0;	174;	52Psi UMa	;	3.00;	4400;occ;	76;	0;	13811
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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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14; 834.4; 24-OCT-2004 04:58:54; Dark ; 41.5; 143; Alp Hyi ; 2.86; 7200;occ; 83; 0;13858
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17; 1211.7; 24-OCT-2004 05:05:11; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;13858

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 21; 2523.1; 24-OCT-2004 05:27:03; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;13858  
 22; 2696.4; 24-OCT-2004 05:29:56; Bright; 44.5; 73; 57Gam1And ; 2.26; 13100;occ; 89; 0;13858  
 23; 2868.8; 24-OCT-2004 05:32:48; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;13858  
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 27; 4672.0; 25-OCT-2004 00:29:27; Bright; 51.5; 166; 17Eps Leo ; 2.98; 6000;occ; 103; 0;13869  
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/nas1/ENVISAT/GOMOS/from\_DDS/GOM\_NL\_\_0PNPDK20041024\_164923\_000057722031\_00284\_13865\_1174.N1

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12; 1612.4; 28-OCT-2004 01:24:48; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;13913
13; 2026.7; 28-OCT-2004 01:31:42; Dark ; 64.5; 94; 92Alp Cet ; 2.53; 3100;occ; 129; 0;13913
14; 2179.7; 28-OCT-2004 01:34:15; Bright; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;13913
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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
17; 2515.1; 28-OCT-2004 01:39:50; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;13913
18; 2675.4; 28-OCT-2004 01:42:31; Bright; 44.0; 73; 57Gam1And ; 2.26; 13100;occ; 88; 0;13913
19; 2776.9; 28-OCT-2004 01:44:12; Bright; 48.0; 79; 26Bet Per ; 2.31; 13100;occ; 96; 0;13913
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21; 3122.5; 28-OCT-2004 01:49:58; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;13913
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19; 2674.6; 28-OCT-2004 03:23:06; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;13914
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13; 848.1; 28-OCT-2004 04:33:15; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;13915
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11; 155.2; 28-OCT-2004 06:02:18; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;13916
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```



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24; 2912.5; 28-OCT-2004 06:48:16; Bright; 37.0; 74; 11Bet Cas ; 2.27; 6600;occ; 74; 0;13916
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```

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10;-2911.9; 28-OCT-2004 10:12:59; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;13918
11;-2614.6; 28-OCT-2004 10:17:56; Bright; 39.0; 49; 1Alp UMi ; 1.99; 6300;occ; 78; 0;13918
12;-2393.1; 28-OCT-2004 10:21:38; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;13918
13;-2123.0; 28-OCT-2004 10:26:08; Bright; 42.0; 36; 50Alp UMa ; 1.80; 6300;occ; 84; 0;13918
14;-2036.9; 28-OCT-2004 10:27:34; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000;occ; 77; 0;13918
15;-1809.0; 28-OCT-2004 10:31:22; Bright; 39.5; 174; 52Psi UMa ; 3.00; 4400;occ; 79; 0;13918
16;-1346.4; 28-OCT-2004 10:39:05; Bright; 53.5; 166; 17Eps Leo ; 2.98; 6000;occ; 107; 0;13918
17;-1153.1; 28-OCT-2004 10:42:18; Dark ; 255.0; 17; 78Bet Gem ; 1.16; 4500;occ; 510; 0;13918
18; -595.1; 28-OCT-2004 10:51:36; Dark ; 65.5; 48; 30Alp Hya ; 1.98; 4100;occ; 131; 0;13918
19; -239.8; 28-OCT-2004 10:57:31; Dark ; 40.0; 99; Del Cen ; 2.58; 26000;occ; 80; 0;13918
20; -61.5; 28-OCT-2004 11:00:29; Dark ; 50.0; 65; Lam Vel ; 2.20; 4400;occ; 100; 0;13918
21; 78.8; 28-OCT-2004 11:02:50; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;13919
22; 155.8; 28-OCT-2004 11:04:07; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;13919
23; 485.0; 28-OCT-2004 11:09:36; Dark ; 51.0; 2; Alp Car ;-0.74; 7000;occ; 102; 0;13919
24; 848.1; 28-OCT-2004 11:15:39; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;13919
25; 932.8; 28-OCT-2004 11:17:04; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;13919
26; 1119.7; 28-OCT-2004 11:20:11; Dark ; 217.0; 1; 9Alp CMA ;-1.44; 11000;occ; 434; 0;13919
27; 1611.7; 28-OCT-2004 11:28:23; Dark ; 47.0; 52; 16Bet Cet ; 2.04; 4500;occ; 94; 0;13919
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL_0PNPDK20041028_112832_000057542031_00338_13919_1204.N1
1;-4414.7; 28-OCT-2004 11:28:32; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 19;13919
2;-4011.2; 28-OCT-2004 11:35:16; Dark ; 62.5; 94; 92Alp Cet ; 2.53; 3100;occ; 125; 0;13919
3;-3853.5; 28-OCT-2004 11:37:53; Bright; 38.5; 140; 88Gam Peg ; 2.83; 26000;occ; 77; 0;13919
4;-3756.2; 28-OCT-2004 11:39:31; Bright; 43.0; 105; 6Bet Ari ; 2.64; 8900;occ; 86; 0;13919
5;-3621.5; 28-OCT-2004 11:41:45; Bright; 39.5; 58; 21Alp And ; 2.07; 11000;occ; 79; 0;13919
6;-3520.7; 28-OCT-2004 11:43:26; Bright; 40.0; 53; 43Bet And ; 2.05; 3300;occ; 80; 0;13919
7;-3362.4; 28-OCT-2004 11:46:04; Bright; 41.0; 73; 57Gam1And ; 2.26; 13100;occ; 82; 0;13919
8;-3263.4; 28-OCT-2004 11:47:43; Bright; 45.5; 79; 26Bet Per ; 2.31; 13100;occ; 91; 0;13919
9;-3124.5; 28-OCT-2004 11:50:02; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;13919
10;-2911.0; 28-OCT-2004 11:53:36; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;13919
11;-2616.4; 28-OCT-2004 11:58:30; Bright; 40.5; 49; 1Alp UMi ; 1.99; 6300;occ; 81; 0;13919
12;-2393.5; 28-OCT-2004 12:02:13; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;13919
13;-2123.1; 28-OCT-2004 12:06:44; Bright; 42.5; 36; 50Alp UMa ; 1.80; 6300;occ; 85; 0;13919
14;-2036.7; 28-OCT-2004 12:08:10; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000;occ; 77; 0;13919
15;-1809.0; 28-OCT-2004 12:11:58; Bright; 41.5; 174; 52Psi UMa ; 3.00; 4400;occ; 83; 0;13919
16;-1345.8; 28-OCT-2004 12:19:41; Bright; 52.5; 166; 17Eps Leo ; 2.98; 6000;occ; 105; 0;13919
17;-1150.4; 28-OCT-2004 12:22:56; Dark ; 255.0; 17; 78Bet Gem ; 1.16; 4500;occ; 510; 0;13919
18; -593.9; 28-OCT-2004 12:32:13; Dark ; 67.0; 48; 30Alp Hya ; 1.98; 4100;occ; 134; 0;13919
19; -240.2; 28-OCT-2004 12:38:07; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;13919
20; -60.6; 28-OCT-2004 12:41:06; Dark ; 57.5; 65; Lam Vel ; 2.20; 4400;occ; 115; 0;13919
21; 155.9; 28-OCT-2004 12:44:43; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;13920
22; 356.8; 28-OCT-2004 12:48:04; Dark ; 62.5; 117; Pi Pup ; 2.71; 3800;occ; 125; 0;13920
23; 485.8; 28-OCT-2004 12:50:13; Dark ; 60.5; 2; Alp Car ;-0.74; 7000;occ; 121; 0;13920
24; 848.2; 28-OCT-2004 12:56:15; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;13920
25; 933.0; 28-OCT-2004 12:57:40; Dark ; 48.5; 9; Alp Eri ; 0.45; 24000;occ; 97; 0;13920
26; 1124.0; 28-OCT-2004 13:00:51; Dark ; 216.5; 1; 9Alp CMA ;-1.44; 11000;occ; 433; 0;13920
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL_0PNPDK20041028_130900_000057662031_00339_13920_1205.N1
1;-4422.2; 28-OCT-2004 13:09:00; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;13920
2;-4012.0; 28-OCT-2004 13:15:51; Dark ; 72.0; 94; 92Alp Cet ; 2.53; 3100;occ; 144; 0;13920
3;-3853.2; 28-OCT-2004 13:18:29; Bright; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;13920
4;-3756.5; 28-OCT-2004 13:20:06; Bright; 42.0; 105; 6Bet Ari ; 2.64; 8900;occ; 84; 0;13920
5;-3620.5; 28-OCT-2004 13:22:22; Bright; 38.5; 58; 21Alp And ; 2.07; 11000;occ; 77; 0;13920
6;-3520.4; 28-OCT-2004 13:24:02; Bright; 37.5; 53; 43Bet And ; 2.05; 3300;occ; 75; 0;13920
7;-3363.0; 28-OCT-2004 13:26:40; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;13920
8;-3264.4; 28-OCT-2004 13:28:18; Bright; 48.0; 79; 26Bet Per ; 2.31; 13100;occ; 96; 0;13920
9;-3123.5; 28-OCT-2004 13:30:39; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;13920
10;-2912.8; 28-OCT-2004 13:34:10; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;13920
11;-2614.0; 28-OCT-2004 13:39:09; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;13920
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
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20041028_193901_000041632031_00343_13924_0977.N1
1; 870.4; 28-OCT-2004 19:39:01; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 43;13924
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
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDE20041028_204723_000062192031_00343_13924_0978.N1
1; -1063.2; 28-OCT-2004 20:47:23; Dark ; 255.0; 17; 78Bet Gem ; 1.16; 4500;occ; 510; 147;13924
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  
 20; -240.5; 28-OCT-2004 15:59:18; Dark ; 40.0; 99; Del Cen ; 2.58; 26000;occ; 80; 0;13921  
 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

1; -4807.1; 28-OCT-2004 16:23:48; Dark ; 217.0; 1; 9Alp CMA ; -1.44; 11000;occ; 434; 193;13922  
 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  
 5; -3756.5; 28-OCT-2004 16:41:18; Bright; 41.5; 105; 6Bet Ari ; 2.64; 8900;occ; 83; 0;13922  
 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
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL_0PNPDE20041029_001633_000057472031_00345_13926_0980.N1
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
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL_0PNPDK20041029_062851_000037772031_00349_13930_1209.N1
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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

```

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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
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20041029_105651_000058172031_00352_13933_1212.N1
 1;-4419.0; 29-OCT-2004 10:56:51; Dark ; 41.5; 52; 16Bet Cet ; 2.04; 4500;occ; 83; 0;13933
 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

```



```

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
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL_0PNPDK20041029_123726_000056832031_00353_13934_1213.N1
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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
29; 1222.3; 29-OCT-2004 14:11:28; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;13935
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL_0PNPDK20041029_141802_000056832031_00354_13935_1214.N1
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2;-4017.4; 29-OCT-2004 14:24:44; Dark ; 65.0; 94; 92Alp Cet ; 2.53; 3100;occ; 130; 0;13935
3;-3849.7; 29-OCT-2004 14:27:32; Bright; 37.0; 140; 88Gam Peg ; 2.83; 26000;occ; 74; 0;13935
4;-3758.4; 29-OCT-2004 14:29:03; Bright; 40.0; 105; 6Bet Ari ; 2.64; 8900;occ; 80; 0;13935
5;-3617.9; 29-OCT-2004 14:31:24; Bright; 38.5; 58; 21Alp And ; 2.07; 11000;occ; 77; 0;13935
6;-3521.4; 29-OCT-2004 14:33:00; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;13935
7;-3367.2; 29-OCT-2004 14:35:34; Bright; 41.0; 73; 57Gam1And ; 2.26; 13100;occ; 82; 0;13935
8;-3274.2; 29-OCT-2004 14:37:07; Bright; 47.0; 79; 26Bet Per ; 2.31; 13100;occ; 94; 0;13935
9;-3170.0; 29-OCT-2004 14:38:52; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;13935
10;-3097.0; 29-OCT-2004 14:40:05; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;13935
11;-2903.3; 29-OCT-2004 14:43:18; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;13935
12;-2613.8; 29-OCT-2004 14:48:08; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;13935
13;-2389.6; 29-OCT-2004 14:51:52; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;13935
14;-2123.1; 29-OCT-2004 14:56:18; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;13935

```



```

15;-2034.2; 29-OCT-2004 14:57:47; Bright; 37.5; 32; 77Eps UMA ; 1.76; 11000;occ; 75; 0;13935
16;-1959.9; 29-OCT-2004 14:59:02; Bright; 36.5; 39; 85Eta UMA ; 1.85; 24000;occ; 73; 0;13935
17;-1808.5; 29-OCT-2004 15:01:33; Bright; 48.5; 174; 52Psi UMA ; 3.00; 4400;occ; 97; 0;13935
18;-1399.9; 29-OCT-2004 15:08:22; Bright; 255.0; 24; 66Alp Gem ; 1.58; 10200;occ; 510; 0;13935
19; -574.6; 29-OCT-2004 15:22:07; Dark ; 69.5; 48; 30Alp Hya ; 1.98; 4100;occ; 139; 0;13935
20; -238.3; 29-OCT-2004 15:27:43; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;13935
21; -107.4; 29-OCT-2004 15:29:54; Dark ; 37.5; 129; Del Cru ; 2.79; 26000;occ; 75; 0;13935
22; 87.6; 29-OCT-2004 15:33:09; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;13936
23; 197.9; 29-OCT-2004 15:34:59; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;13936
24; 319.7; 29-OCT-2004 15:37:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13936
25; 499.4; 29-OCT-2004 15:40:01; Dark ; 52.0; 2; Alp Car ; -0.74; 7000;occ; 104; 0;13936
26; 771.6; 29-OCT-2004 15:44:33; Dark ; 78.0; 177; 1Zet CMA ; 3.02; 26000;occ; 156; 0;13936
27; 935.3; 29-OCT-2004 15:47:17; Dark ; 47.0; 9; Alp Eri ; 0.45; 24000;occ; 94; 0;13936
28; 1128.9; 29-OCT-2004 15:50:30; Dark ; 42.5; 157; The1Eri ; 2.91; 9300;occ; 85; 0;13936
29; 1222.1; 29-OCT-2004 15:52:04; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;13936
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2; -584.0; 29-OCT-2004 01:57:10; Dark ; 67.5; 48; 30Alp Hya ; 1.98; 4100;occ; 135; 0;13927
3; -238.8; 29-OCT-2004 02:02:55; Dark ; 38.5; 99; Del Cen ; 2.58; 26000;occ; 77; 0;13927
4; -108.0; 29-OCT-2004 02:05:06; Dark ; 38.0; 129; Del Cru ; 2.79; 26000;occ; 76; 0;13927
5; 160.0; 29-OCT-2004 02:09:34; Dark ; 53.0; 34; Gam2Vel ; 1.79; 23000;occ; 106; 0;13928
6; 312.2; 29-OCT-2004 02:12:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13928
7; 490.3; 29-OCT-2004 02:15:04; Dark ; 52.0; 2; Alp Car ; -0.74; 7000;occ; 104; 0;13928
8; 599.8; 29-OCT-2004 02:16:54; Dark ; 99.0; 179; 240mi2CMA ; 3.03; 24000;occ; 198; 0;13928
9; 849.9; 29-OCT-2004 02:21:04; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;13928
10; 934.3; 29-OCT-2004 02:22:28; Dark ; 52.0; 9; Alp Eri ; 0.45; 24000;occ; 104; 0;13928
11; 1125.4; 29-OCT-2004 02:25:40; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;13928
12; 1221.1; 29-OCT-2004 02:27:15; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;13928
13; 1615.5; 29-OCT-2004 02:33:50; Dark ; 43.0; 52; 16Bet Cet ; 2.04; 4500;occ; 86; 0;13928
14; 2021.4; 29-OCT-2004 02:40:36; Dark ; 66.5; 94; 92Alp Cet ; 2.53; 3100;occ; 133; 0;13928
15; 2184.8; 29-OCT-2004 02:43:19; Bright; 38.0; 140; 88Gam Peg ; 2.83; 26000;occ; 76; 0;13928
16; 2277.6; 29-OCT-2004 02:44:52; Bright; 43.0; 105; 6Bet Ari ; 2.64; 8900;occ; 86; 0;13928
17; 2416.1; 29-OCT-2004 02:47:10; Bright; 39.0; 58; 21Alp And ; 2.07; 11000;occ; 78; 0;13928
18; 2514.4; 29-OCT-2004 02:48:49; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;13928
19; 2668.0; 29-OCT-2004 02:51:22; Bright; 47.0; 73; 57Gam1And ; 2.26; 13100;occ; 94; 0;13928
20; 2765.2; 29-OCT-2004 02:52:59; Bright; 47.5; 79; 26Bet Per ; 2.31; 13100;occ; 95; 0;13928
21; 2911.9; 29-OCT-2004 02:55:26; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;13928
22; 3129.4; 29-OCT-2004 02:59:04; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;13928
23; 3421.1; 29-OCT-2004 03:03:55; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;13928
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2;-2123.7; 29-OCT-2004 03:12:06; Bright; 42.0; 36; 50Alp UMA ; 1.80; 6300;occ; 84; 0;13928
3;-2036.2; 29-OCT-2004 03:13:34; Bright; 39.0; 32; 77Eps UMA ; 1.76; 11000;occ; 78; 0;13928
4;-1808.9; 29-OCT-2004 03:17:21; Bright; 41.0; 174; 52Psi UMA ; 3.00; 4400;occ; 82; 0;13928
5;-1405.2; 29-OCT-2004 03:24:05; Bright; 243.5; 24; 66Alp Gem ; 1.58; 10200;occ; 487; 0;13928
6;-1123.9; 29-OCT-2004 03:28:46; Dark ; 255.0; 17; 78Bet Gem ; 1.16; 4500;occ; 510; 0;13928
7; -583.1; 29-OCT-2004 03:37:47; Dark ; 64.0; 48; 30Alp Hya ; 1.98; 4100;occ; 128; 0;13928
8; -239.2; 29-OCT-2004 03:43:31; Dark ; 42.5; 99; Del Cen ; 2.58; 26000;occ; 85; 0;13928
9; -108.1; 29-OCT-2004 03:45:42; Dark ; 39.5; 129; Del Cru ; 2.79; 26000;occ; 79; 0;13928
10; 161.7; 29-OCT-2004 03:50:12; Dark ; 47.0; 34; Gam2Vel ; 1.79; 23000;occ; 94; 0;13929
11; 313.0; 29-OCT-2004 03:52:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13929
12; 493.9; 29-OCT-2004 03:55:44; Dark ; 50.0; 2; Alp Car ; -0.74; 7000;occ; 100; 0;13929
13; 601.7; 29-OCT-2004 03:57:32; Dark ; 101.5; 179; 240mi2CMA ; 3.03; 24000;occ; 203; 0;13929
14; 850.7; 29-OCT-2004 04:01:41; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;13929
15; 934.4; 29-OCT-2004 04:03:04; Dark ; 49.5; 9; Alp Eri ; 0.45; 24000;occ; 99; 0;13929
16; 1126.5; 29-OCT-2004 04:06:17; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;13929
17; 1221.5; 29-OCT-2004 04:07:52; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;13929
18; 1616.1; 29-OCT-2004 04:14:26; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;13929
19; 2020.1; 29-OCT-2004 04:21:10; Dark ; 69.0; 94; 92Alp Cet ; 2.53; 3100;occ; 138; 0;13929
20; 2185.0; 29-OCT-2004 04:23:55; Bright; 37.0; 140; 88Gam Peg ; 2.83; 26000;occ; 74; 0;13929
21; 2278.5; 29-OCT-2004 04:25:29; Bright; 42.0; 105; 6Bet Ari ; 2.64; 8900;occ; 84; 0;13929
22; 2417.4; 29-OCT-2004 04:27:47; Bright; 38.0; 58; 21Alp And ; 2.07; 11000;occ; 76; 0;13929
23; 2515.0; 29-OCT-2004 04:29:25; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;13929
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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/nas1/ENVISAT/GOMOS/from\_DDS/GOM\_NL\_\_0PNPDE20041029\_044814\_000058512031\_00348\_13929\_0983.N1

1;-2391.7; 29-OCT-2004 04:48:14; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;13929  
 2;-2123.1; 29-OCT-2004 04:52:43; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;13929  
 3;-2036.0; 29-OCT-2004 04:54:10; Bright; 39.0; 32; 77Eps UMa ; 1.76; 11000;occ; 78; 0;13929  
 4;-1809.4; 29-OCT-2004 04:57:57; Bright; 39.5; 174; 52Psi UMa ; 3.00; 4400;occ; 79; 0;13929  
 5;-1404.6; 29-OCT-2004 05:04:41; Bright; 255.0; 24; 66Alp Gem ; 1.58; 10200;occ; 510; 0;13929  
 6;-1120.9; 29-OCT-2004 05:09:25; Dark ; 255.0; 17; 78Bet Gem ; 1.16; 4500;occ; 510; 0;13929  
 7; -582.2; 29-OCT-2004 05:18:24; Dark ; 68.0; 48; 30Alp Hya ; 1.98; 4100;occ; 136; 0;13929  
 8; -238.9; 29-OCT-2004 05:24:07; Dark ; 41.0; 99; Del Cen ; 2.58; 26000;occ; 82; 0;13929  
 9; -108.2; 29-OCT-2004 05:26:18; Dark ; 38.5; 129; Del Cru ; 2.79; 26000;occ; 77; 0;13929  
 10; 157.7; 29-OCT-2004 05:30:44; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;13930  
 11; 370.5; 29-OCT-2004 05:34:17; Dark ; 67.0; 117; Pi Pup ; 2.71; 3800;occ; 134; 0;13930  
 12; 493.7; 29-OCT-2004 05:36:20; Dark ; 58.5; 2; Alp Car ; -0.74; 7000;occ; 117; 0;13930  
 13; 762.4; 29-OCT-2004 05:40:49; Dark ; 77.0; 177; 1Zet CMA ; 3.02; 26000;occ; 154; 0;13930  
 14; 934.7; 29-OCT-2004 05:43:41; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;13930  
 15; 1166.3; 29-OCT-2004 05:47:32; Dark ; 217.0; 1; 9Alp CMA ; -1.44; 11000;occ; 434; 0;13930  
 16; 1616.0; 29-OCT-2004 05:55:02; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;13930  
 17; 2019.7; 29-OCT-2004 06:01:46; Dark ; 71.0; 94; 92Alp Cet ; 2.53; 3100;occ; 142; 0;13930  
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 19; 2278.5; 29-OCT-2004 06:06:05; Bright; 40.5; 105; 6Bet Ari ; 2.64; 8900;occ; 81; 0;13930  
 20; 2417.8; 29-OCT-2004 06:08:24; Bright; 36.5; 58; 21Alp And ; 2.07; 11000;occ; 73; 0;13930  
 21; 2514.9; 29-OCT-2004 06:10:01; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;13930  
 22; 2670.1; 29-OCT-2004 06:12:36; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;13930  
 23; 2764.6; 29-OCT-2004 06:14:11; Bright; 46.5; 79; 26Bet Per ; 2.31; 13100;occ; 93; 0;13930  
 24; 2865.7; 29-OCT-2004 06:15:52; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;13930  
 25; 2939.0; 29-OCT-2004 06:17:05; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;13930  
 26; 3129.8; 29-OCT-2004 06:20:16; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;13930  
 27; 3421.2; 29-OCT-2004 06:25:07; Bright; 39.0; 49; 1Alp UMi ; 1.99; 6300;occ; 78; 0;13930

/nas1/ENVISAT/GOMOS/from\_DDS/GOM\_NL\_\_0PNPDK20041029\_173107\_000058472031\_00356\_13937\_1216.N1

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 3;-4418.4; 29-OCT-2004 17:39:15; Dark ; 47.0; 52; 16Bet Cet ; 2.04; 4500;occ; 94; 0;13937  
 4;-4017.8; 29-OCT-2004 17:45:56; Dark ; 70.0; 94; 92Alp Cet ; 2.53; 3100;occ; 140; 0;13937  
 5;-3849.0; 29-OCT-2004 17:48:45; Bright; 37.0; 140; 88Gam Peg ; 2.83; 26000;occ; 74; 0;13937  
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 8;-3521.3; 29-OCT-2004 17:54:12; Bright; 37.5; 53; 43Bet And ; 2.05; 3300;occ; 75; 0;13937  
 9;-3367.9; 29-OCT-2004 17:56:46; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;13937  
 10;-3276.4; 29-OCT-2004 17:58:17; Bright; 45.5; 79; 26Bet Per ; 2.31; 13100;occ; 91; 0;13937  
 11;-3170.1; 29-OCT-2004 18:00:03; Bright; 39.5; 68; 18Alp Cas ; 2.22; 4500;occ; 79; 0;13937  
 12;-3097.1; 29-OCT-2004 18:01:16; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;13937  
 13;-2902.3; 29-OCT-2004 18:04:31; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;13937  
 14;-2613.6; 29-OCT-2004 18:09:20; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;13937  
 15;-2389.1; 29-OCT-2004 18:13:04; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;13937  
 16;-2123.1; 29-OCT-2004 18:17:30; Bright; 40.0; 36; 50Alp UMa ; 1.80; 6300;occ; 80; 0;13937  
 17;-2033.7; 29-OCT-2004 18:19:00; Bright; 37.5; 32; 77Eps UMa ; 1.76; 11000;occ; 75; 0;13937  
 18;-1959.3; 29-OCT-2004 18:20:14; Bright; 37.0; 39; 85Eta UMa ; 1.85; 24000;occ; 74; 0;13937  
 19;-1809.2; 29-OCT-2004 18:22:44; Bright; 56.0; 174; 52Psi UMa ; 3.00; 4400;occ; 112; 0;13937  
 20;-1398.2; 29-OCT-2004 18:29:35; Bright; 255.0; 24; 66Alp Gem ; 1.58; 10200;occ; 510; 0;13937  
 21; -572.4; 29-OCT-2004 18:43:21; Dark ; 79.0; 48; 30Alp Hya ; 1.98; 4100;occ; 158; 0;13937  
 22; -237.9; 29-OCT-2004 18:48:56; Dark ; 39.5; 99; Del Cen ; 2.58; 26000;occ; 79; 0;13937  
 23; -107.9; 29-OCT-2004 18:51:06; Dark ; 38.5; 129; Del Cru ; 2.79; 26000;occ; 77; 0;13937  
 24; 88.5; 29-OCT-2004 18:54:22; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;13938  
 25; 198.3; 29-OCT-2004 18:56:12; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;13938  
 26; 321.5; 29-OCT-2004 18:58:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13938  
 27; 501.0; 29-OCT-2004 19:01:15; Dark ; 56.0; 2; Alp Car ; -0.74; 7000;occ; 112; 0;13938  
 28; 772.8; 29-OCT-2004 19:05:46; Dark ; 79.0; 177; 1Zet CMA ; 3.02; 26000;occ; 158; 0;13938  
 29; 936.2; 29-OCT-2004 19:08:30; Dark ; 5.0; 9; Alp Eri ; 0.45; 24000;occ; 10; 0;13938

/nas1/ENVISAT/GOMOS/from\_DDS/GOM\_NL\_\_0PNPDK20041029\_190600\_000061052031\_00357\_13938\_1217.N1

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 2;-5099.8; 29-OCT-2004 19:08:30; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;13938  
 3;-4906.0; 29-OCT-2004 19:11:44; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;13938  
 4;-4813.6; 29-OCT-2004 19:13:16; Dark ; 41.5; 84; Alp Phe ; 2.40; 4500;occ; 83; 0;13938  
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 8;-3758.8; 29-OCT-2004 19:30:51; Bright; 41.0; 105; 6Bet Ari ; 2.64; 8900;occ; 82; 0;13938  
 9;-3616.9; 29-OCT-2004 19:33:13; Bright; 37.0; 58; 21Alp And ; 2.07; 11000;occ; 74; 0;13938



```

10;-3521.4; 29-OCT-2004 19:34:48; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;13938
11;-3368.2; 29-OCT-2004 19:37:21; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;13938
12;-3277.1; 29-OCT-2004 19:38:52; Bright; 47.0; 79; 26Bet Per ; 2.31; 13100;occ; 94; 0;13938
13;-3170.1; 29-OCT-2004 19:40:39; Bright; 38.0; 68; 18Alp Cas ; 2.22; 4500;occ; 76; 0;13938
14;-3097.2; 29-OCT-2004 19:41:52; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;13938
15;-2902.0; 29-OCT-2004 19:45:08; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;13938
16;-2613.6; 29-OCT-2004 19:49:56; Bright; 38.5; 49; 1Alp UMi ; 1.99; 6300;occ; 77; 0;13938
17;-2389.1; 29-OCT-2004 19:53:40; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;13938
18;-2123.1; 29-OCT-2004 19:58:06; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;13938
19;-2033.7; 29-OCT-2004 19:59:36; Bright; 52.0; 32; 77Eps UMa ; 1.76; 11000;occ; 104; 0;13938
20;-1959.0; 29-OCT-2004 20:00:50; Bright; 36.5; 39; 85Eta UMa ; 1.85; 24000;occ; 73; 0;13938
21;-1808.9; 29-OCT-2004 20:03:21; Bright; 39.0; 174; 52Psi UMa ; 3.00; 4400;occ; 78; 0;13938
22;-1397.3; 29-OCT-2004 20:10:12; Bright; 255.0; 24; 66Alp Gem ; 1.58; 10200;occ; 510; 0;13938
23; -571.1; 29-OCT-2004 20:23:58; Dark ; 74.0; 48; 30Alp Hya ; 1.98; 4100;occ; 148; 0;13938
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
30; 776.6; 29-OCT-2004 20:46:26; Dark ; 79.5; 177; 1Zet CMa ; 3.02; 26000;occ; 159; 0;13939
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20041030_055716_000038162031_00363_13944_1218.N1
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2;-2124.8; 30-OCT-2004 06:01:40; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;13944
3;-2034.2; 30-OCT-2004 06:03:11; Bright; 36.0; 32; 77Eps UMa ; 1.76; 11000;occ; 72; 0;13944
4;-1958.1; 30-OCT-2004 06:04:27; Bright; 35.0; 39; 85Eta UMa ; 1.85; 24000;occ; 70; 0;13944
5;-1808.6; 30-OCT-2004 06:06:56; Bright; 41.5; 174; 52Psi UMa ; 3.00; 4400;occ; 83; 0;13944
6;-1392.1; 30-OCT-2004 06:13:53; Bright; 255.0; 24; 66Alp Gem ; 1.58; 10200;occ; 510; 0;13944
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
15; 937.9; 30-OCT-2004 06:52:43; Dark ; 52.0; 9; Alp Eri ; 0.45; 24000;occ; 104; 0;13945
16; 1226.4; 30-OCT-2004 06:57:31; Dark ; 201.5; 1; 9Alp CMa ; -1.44; 11000;occ; 403; 0;13945
/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20041030_070404_000060812031_00364_13945_1219.N1
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2;-4021.5; 30-OCT-2004 07:10:39; Dark ; 68.5; 94; 92Alp Cet ; 2.53; 3100;occ; 137; 0;13945
3;-3846.8; 30-OCT-2004 07:13:34; Bright; 37.0; 140; 88Gam Peg ; 2.83; 26000;occ; 74; 0;13945
4;-3760.6; 30-OCT-2004 07:15:00; Bright; 40.5; 105; 6Bet Ari ; 2.64; 8900;occ; 81; 0;13945
5;-3615.3; 30-OCT-2004 07:17:26; Bright; 38.0; 58; 21Alp And ; 2.07; 11000;occ; 76; 0;13945
6;-3522.3; 30-OCT-2004 07:18:59; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;13945
7;-3370.3; 30-OCT-2004 07:21:31; Bright; 41.0; 73; 57Gam1And ; 2.26; 13100;occ; 82; 0;13945
8;-3281.6; 30-OCT-2004 07:22:59; Bright; 46.5; 79; 26Bet Per ; 2.31; 13100;occ; 93; 0;13945
9;-3170.0; 30-OCT-2004 07:24:51; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;13945
10;-3097.5; 30-OCT-2004 07:26:03; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;13945
11;-2898.8; 30-OCT-2004 07:29:22; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;13945
12;-2614.8; 30-OCT-2004 07:34:06; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;13945
13;-2388.7; 30-OCT-2004 07:37:52; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;13945
14;-2124.8; 30-OCT-2004 07:42:16; Bright; 42.0; 36; 50Alp UMa ; 1.80; 6300;occ; 84; 0;13945
15;-2035.8; 30-OCT-2004 07:43:45; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000;occ; 77; 0;13945
16;-1957.8; 30-OCT-2004 07:45:03; Bright; 36.0; 39; 85Eta UMa ; 1.85; 24000;occ; 72; 0;13945
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
19; -562.6; 30-OCT-2004 08:08:18; Dark ; 71.5; 48; 30Alp Hya ; 1.98; 4100;occ; 143; 0;13945
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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/nas1/ENVISAT/GOMOS/from_DDS/GOM_NL__0PNPDK20041030_084523_000058082031_00365_13946_1220.N1
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3;-3846.4; 30-OCT-2004 08:54:10; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;13946
4;-3760.6; 30-OCT-2004 08:55:36; Bright; 40.5; 105; 6Bet Ari ; 2.64; 8900;occ; 81; 0;13946
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6;-3522.0; 30-OCT-2004 08:59:35; Bright; 36.5; 53; 43Bet And ; 2.05; 3300;occ; 73; 0;13946
7;-3370.4; 30-OCT-2004 09:02:06; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;13946
8;-3282.0; 30-OCT-2004 09:03:35; Bright; 45.0; 79; 26Bet Per ; 2.31; 13100;occ; 90; 0;13946
9;-3170.0; 30-OCT-2004 09:05:27; Bright; 38.0; 68; 18Alp Cas ; 2.22; 4500;occ; 76; 0;13946
10;-3097.6; 30-OCT-2004 09:06:39; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;13946
11;-2898.6; 30-OCT-2004 09:09:58; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;13946
12;-2614.2; 30-OCT-2004 09:14:43; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 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
17;-1809.5; 30-OCT-2004 09:28:07; Bright; 41.0; 174; 52Psi UMa ; 3.00; 4400;occ; 82; 0;13946
18;-1390.1; 30-OCT-2004 09:35:07; Dark ; 255.0; 24; 66Alp Gem ; 1.58; 10200;occ; 510; 0;13946
19; -561.4; 30-OCT-2004 09:48:55; Dark ; 75.5; 48; 30Alp Hya ; 1.98; 4100;occ; 151; 2;13946
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
29; 1234.3; 30-OCT-2004 10:18:51; Dark ; 201.5; 1; 9Alp Cma ; -1.44; 11000;occ; 403; 0;13947
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3;-3847.2; 30-OCT-2004 10:34:45; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;13947
4;-3761.0; 30-OCT-2004 10:36:12; Bright; 40.5; 105; 6Bet Ari ; 2.64; 8900;occ; 81; 0;13947
5;-3614.8; 30-OCT-2004 10:38:38; Bright; 38.5; 58; 21Alp And ; 2.07; 11000;occ; 77; 0;13947
6;-3522.3; 30-OCT-2004 10:40:10; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;13947
7;-3370.9; 30-OCT-2004 10:42:42; Bright; 41.0; 73; 57Gam1And ; 2.26; 13100;occ; 82; 0;13947
8;-3283.1; 30-OCT-2004 10:44:10; Bright; 48.0; 79; 26Bet Per ; 2.31; 13100;occ; 96; 0;13947
9;-3170.0; 30-OCT-2004 10:46:03; Bright; 37.5; 68; 18Alp Cas ; 2.22; 4500;occ; 75; 0;13947
10;-3097.5; 30-OCT-2004 10:47:15; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;13947
11;-2897.9; 30-OCT-2004 10:50:35; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;13947
12;-2614.2; 30-OCT-2004 10:55:18; Bright; 39.0; 49; 1Alp UMi ; 1.99; 6300;occ; 78; 0;13947
13;-2388.4; 30-OCT-2004 10:59:04; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;13947
14;-2124.4; 30-OCT-2004 11:03:28; Bright; 43.0; 36; 50Alp UMa ; 1.80; 6300;occ; 86; 0;13947
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16;-1956.9; 30-OCT-2004 11:06:16; Bright; 38.5; 39; 85Eta UMa ; 1.85; 24000;occ; 77; 0;13947
17;-1811.3; 30-OCT-2004 11:08:41; Bright; 44.5; 174; 52Psi UMa ; 3.00; 4400;occ; 89; 0;13947
18;-1389.0; 30-OCT-2004 11:15:44; Dark ; 255.0; 24; 66Alp Gem ; 1.58; 10200;occ; 510; 0;13947
19; -560.0; 30-OCT-2004 11:29:33; Dark ; 73.5; 48; 30Alp Hya ; 1.98; 4100;occ; 147; 0;13947
20; -236.6; 30-OCT-2004 11:34:56; Dark ; 38.0; 99; Del Cen ; 2.58; 26000;occ; 76; 0;13947
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
28; 938.1; 30-OCT-2004 11:54:31; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;13948
29; 1237.9; 30-OCT-2004 11:59:31; Dark ; 202.0; 1; 9Alp Cma ; -1.44; 11000;occ; 404; 0;13948
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3;-3847.5; 30-OCT-2004 12:15:21; Bright; 37.5; 140; 88Gam Peg ; 2.83; 26000;occ; 75; 0;13948
4;-3761.5; 30-OCT-2004 12:16:47; Bright; 42.0; 105; 6Bet Ari ; 2.64; 8900;occ; 84; 0;13948
5;-3614.8; 30-OCT-2004 12:19:14; Bright; 36.5; 58; 21Alp And ; 2.07; 11000;occ; 73; 0;13948

```

```

6;-3522.5; 30-OCT-2004 12:20:46; Bright; 40.5; 53; 43Bet And ; 2.05; 3300;occ; 81; 0;13948
7;-3371.2; 30-OCT-2004 12:23:17; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;13948
8;-3283.6; 30-OCT-2004 12:24:45; Bright; 45.5; 79; 26Bet Per ; 2.31; 13100;occ; 91; 0;13948
9;-3170.2; 30-OCT-2004 12:26:38; Bright; 38.5; 68; 18Alp Cas ; 2.22; 4500;occ; 77; 0;13948
10;-3097.9; 30-OCT-2004 12:27:51; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;13948
11;-2897.8; 30-OCT-2004 12:31:11; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;13948
12;-2614.4; 30-OCT-2004 12:35:54; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;13948
13;-2388.1; 30-OCT-2004 12:39:40; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;13948
14;-2125.0; 30-OCT-2004 12:44:03; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;13948
15;-2035.4; 30-OCT-2004 12:45:33; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;13948
16;-1956.7; 30-OCT-2004 12:46:52; Bright; 36.0; 39; 85Eta UMa ; 1.85; 24000;occ; 72; 0;13948
17;-1808.8; 30-OCT-2004 12:49:20; Bright; 40.5; 174; 52Psi UMa ; 3.00; 4400;occ; 81; 0;13948
18;-1388.0; 30-OCT-2004 12:56:20; Dark ; 255.0; 24; 66Alp Gem ; 1.58; 10200;occ; 510; 0;13948
19;-558.8; 30-OCT-2004 13:10:10; Dark ; 81.5; 48; 30Alp Hya ; 1.98; 4100;occ; 163; 0;13948
20;-236.6; 30-OCT-2004 13:15:32; Dark ; 40.0; 99; Del Cen ; 2.58; 26000;occ; 80; 0;13948
21;-107.4; 30-OCT-2004 13:17:41; Dark ; 40.0; 129; Del Cru ; 2.79; 26000;occ; 80; 0;13948
22; 41.5; 30-OCT-2004 13:20:10; Dark ; 42.0; 91; Kap Vel ; 2.49; 26000;occ; 84; 0;13949
23; 161.2; 30-OCT-2004 13:22:10; Dark ; 58.5; 0; ; 0.00; 0;occ; 117; 0;13949
24; 396.8; 30-OCT-2004 13:26:05; Dark ; 69.0; 117; Pi Pup ; 2.71; 3800;occ; 138; 0;13949
25; 509.6; 30-OCT-2004 13:27:58; Dark ; 52.0; 2; Alp Car ; -0.74; 7000;occ; 104; 0;13949
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
29; 1241.8; 30-OCT-2004 13:40:10; Dark ; 201.5; 1; 9Alp CMA ; -1.44; 11000;occ; 403; 0;13949
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3;-4022.8; 30-OCT-2004 13:53:02; Dark ; 70.0; 94; 92Alp Cet ; 2.53; 3100;occ; 140; 0;13949
4;-3849.2; 30-OCT-2004 13:55:55; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;13949
5;-3761.4; 30-OCT-2004 13:57:23; Bright; 41.0; 105; 6Bet Ari ; 2.64; 8900;occ; 82; 0;13949
6;-3614.7; 30-OCT-2004 13:59:50; Bright; 36.5; 58; 21Alp And ; 2.07; 11000;occ; 73; 0;13949
7;-3522.9; 30-OCT-2004 14:01:22; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;13949
8;-3371.5; 30-OCT-2004 14:03:53; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;13949
9;-3284.5; 30-OCT-2004 14:05:20; Bright; 46.5; 79; 26Bet Per ; 2.31; 13100;occ; 93; 0;13949
10;-3170.0; 30-OCT-2004 14:07:14; Bright; 38.5; 68; 18Alp Cas ; 2.22; 4500;occ; 77; 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
14;-2387.4; 30-OCT-2004 14:20:17; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;13949
15;-2124.6; 30-OCT-2004 14:24:40; Bright; 41.5; 36; 50Alp UMa ; 1.80; 6300;occ; 83; 0;13949
16;-2033.5; 30-OCT-2004 14:26:11; Bright; 39.0; 32; 77Eps UMa ; 1.76; 11000;occ; 78; 0;13949
17;-1956.9; 30-OCT-2004 14:27:28; Bright; 37.5; 39; 85Eta UMa ; 1.85; 24000;occ; 75; 0;13949
18;-1809.4; 30-OCT-2004 14:29:55; Bright; 40.5; 174; 52Psi UMa ; 3.00; 4400;occ; 81; 0;13949
19;-1387.0; 30-OCT-2004 14:36:57; Dark ; 255.0; 24; 66Alp Gem ; 1.58; 10200;occ; 510; 0;13949
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
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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
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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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2;-2124.2; 30-OCT-2004 04:21:05; Bright; 43.0; 36; 50Alp UMa ; 1.80; 6300;occ; 86; 0;13943
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
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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

```

```

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
30; 3421.7; 30-OCT-2004 05:53:31; Bright; 39.0; 49; 1Alp UMi ; 1.99; 6300;occ; 78; 0;13944
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 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
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18; 2746.1; 31-OCT-2004 01:49:26; Bright; 49.0; 79; 26Bet Per ; 2.31; 13100;occ; 98; 0;13956
19; 2864.6; 31-OCT-2004 01:51:25; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;13956
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21; 3152.6; 31-OCT-2004 01:56:13; Bright; 86.5; 114; 3Iot Aur ; 2.69; 4600;occ; 173; 0;13956
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9; -105.8; 31-OCT-2004 07:44:18; Dark ; 38.5; 129; Del Cru ; 2.79; 26000;occ; 77; 0;13959
10; 47.8; 31-OCT-2004 07:46:52; Dark ; 43.5; 91; Kap Vel ; 2.49; 26000;occ; 87; 0;13960
11; 205.1; 31-OCT-2004 07:49:29; Dark ; 40.5; 29; Bet Car ; 1.67; 10200;occ; 81; 0;13960

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16; 1136.6; 31-OCT-2004 08:05:00; Dark ; 45.5; 157; The1Eri ; 2.91; 9300;occ; 91; 0;13960
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22; 48.4; 31-OCT-2004 09:27:28; Dark ; 41.0; 91; Kap Vel ; 2.49; 26000;occ; 82; 0;13961
23; 205.5; 31-OCT-2004 09:30:05; Dark ; 49.0; 29; Bet Car ; 1.67; 10200;occ; 98; 0;13961
24; 343.2; 31-OCT-2004 09:32:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13961
25; 518.5; 31-OCT-2004 09:35:18; Dark ; 51.0; 2; Alp Car ;-0.74; 7000;occ; 102; 0;13961
26; 857.4; 31-OCT-2004 09:40:57; Dark ; 42.5; 143; Alp Hyi ; 2.86; 7200;occ; 85; 0;13961
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12; -2616.8; 31-OCT-2004 10:23:39; Bright; 40.5; 49; 1Alp UMi ; 1.99; 6300;occ; 81; 0;13961
13; -2385.8; 31-OCT-2004 10:27:30; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;13961
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16; -1956.6; 31-OCT-2004 10:34:39; Bright; 39.0; 39; 85Eta UMa ; 1.85; 24000;occ; 78; 0;13961
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21; -106.0; 31-OCT-2004 11:05:29; Dark ; 39.0; 129; Del Cru ; 2.79; 26000;occ; 78; 0;13961
22; 48.9; 31-OCT-2004 11:08:04; Dark ; 43.0; 91; Kap Vel ; 2.49; 26000;occ; 86; 0;13962
23; 206.5; 31-OCT-2004 11:10:42; Dark ; 40.0; 29; Bet Car ; 1.67; 10200;occ; 80; 0;13962
24; 344.2; 31-OCT-2004 11:13:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13962
25; 518.8; 31-OCT-2004 11:15:54; Dark ; 56.5; 2; Alp Car ;-0.74; 7000;occ; 113; 0;13962
26; 857.2; 31-OCT-2004 11:21:33; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;13962
27; 940.5; 31-OCT-2004 11:22:56; Dark ; 47.0; 9; Alp Eri ; 0.45; 24000;occ; 94; 0;13962
28; 1135.4; 31-OCT-2004 11:26:11; Dark ; 48.0; 157; The1Eri ; 2.91; 9300;occ; 96; 0;13962
29; 1288.4; 31-OCT-2004 11:28:44; Dark ; 182.5; 1; 9Alp CMA ;-1.44; 11000;occ; 365; 0;13962
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7;-3375.7; 31-OCT-2004 11:51:36; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;13962
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21; -235.1; 31-OCT-2004 16:05:08; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;13964
22; -106.7; 31-OCT-2004 16:07:17; Dark ; 39.5; 129; Del Cru ; 2.79; 26000;occ; 79; 0;13964
23; 51.1; 31-OCT-2004 16:09:54; Dark ; 42.0; 91; Kap Vel ; 2.49; 26000;occ; 84; 0;13965
24; 206.7; 31-OCT-2004 16:12:30; Dark ; 43.0; 29; Bet Car ; 1.67; 10200;occ; 86; 0;13965
25; 347.0; 31-OCT-2004 16:14:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13965
26; 521.7; 31-OCT-2004 16:17:45; Dark ; 50.5; 2; Alp Car ;-0.74; 7000;occ; 101; 0;13965
27; 857.9; 31-OCT-2004 16:23:21; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;13965
28; 941.5; 31-OCT-2004 16:24:45; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;13965
29; 1138.2; 31-OCT-2004 16:28:01; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;13965
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2;-4709.3; 31-OCT-2004 16:31:10; Dark ; 103.5; 139; 9Bet Lep ; 2.83; 5600;occ; 207; 0;13965
3;-4416.3; 31-OCT-2004 16:36:03; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;13965
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5;-3842.8; 31-OCT-2004 16:45:36; Bright; 38.5; 140; 88Gam Peg ; 2.83; 26000;occ; 77; 0;13965
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7;-3612.4; 31-OCT-2004 16:49:27; Bright; 40.0; 58; 21Alp And ; 2.07; 11000;occ; 80; 0;13965
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11;-2903.8; 31-OCT-2004 17:01:15; Bright; 86.5; 114; 3Iot Aur ; 2.69; 4600;occ; 173; 0;13965
12;-2615.1; 31-OCT-2004 17:06:04; Bright; 39.5; 49; 1Alp UMi ; 1.99; 6300;occ; 79; 0;13965
13;-2385.3; 31-OCT-2004 17:09:54; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;13965
14;-2125.6; 31-OCT-2004 17:14:14; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;13965
15;-2029.5; 31-OCT-2004 17:15:50; Bright; 41.0; 82; 48Bet UMa ; 2.37; 10600;occ; 82; 0;13965
16;-1809.2; 31-OCT-2004 17:19:30; Bright; 42.0; 174; 52Psi UMa ; 3.00; 4400;occ; 84; 0;13965
17;-1369.1; 31-OCT-2004 17:26:50; Dark ; 255.0; 24; 66Alp Gem ; 1.58; 10200;occ; 510; 0;13965
18; -536.8; 31-OCT-2004 17:40:42; Dark ; 76.0; 48; 30Alp Hya ; 1.98; 4100;occ; 152; 0;13965
19; -235.6; 31-OCT-2004 17:45:44; Dark ; 42.0; 99; Del Cen ; 2.58; 26000;occ; 84; 0;13965
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22; 207.2; 31-OCT-2004 17:53:06; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;13966
23; 347.9; 31-OCT-2004 17:55:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;13966
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25; 858.0; 31-OCT-2004 18:03:57; Dark ; 41.5; 143; Alp Hyi ; 2.86; 7200;occ; 83; 0;13966
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3;-4709.2; 31-OCT-2004 18:11:46; Dark ; 100.0; 139; 9Bet Lep ; 2.83; 5600;occ; 200; 0;13966
4;-4414.4; 31-OCT-2004 18:16:41; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;13966
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11;-3098.9; 31-OCT-2004 18:38:36; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;13966
12;-2906.5; 31-OCT-2004 18:41:49; Bright; 90.5; 114; 3Iot Aur ; 2.69; 4600;occ; 181; 0;13966
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14;-2384.4; 31-OCT-2004 18:50:31; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;13966
15;-2125.8; 31-OCT-2004 18:54:49; Bright; 42.0; 36; 50Alp UMa ; 1.80; 6300;occ; 84; 0;13966
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18;-1368.0; 31-OCT-2004 19:07:27; Dark ; 255.0; 24; 66Alp Gem ; 1.58; 10200;occ; 510; 0;13966
19; -534.8; 31-OCT-2004 19:21:20; Dark ; 74.5; 48; 30Alp Hya ; 1.98; 4100;occ; 149; 0;13966

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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
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