

# GOMOS Daily Report 04-JUN-2008

## Level 0 and Level 1 products

### SUMMARY

#### [1. General Info](#)

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

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

#### [3. Plot of Spectrometers and Photometers temperatures](#)

#### [4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

#### [5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

#### [6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

#### [7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

## [Level 2 products](#)

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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	06JUN2008 05:32:28
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (04JUN2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (05JUN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

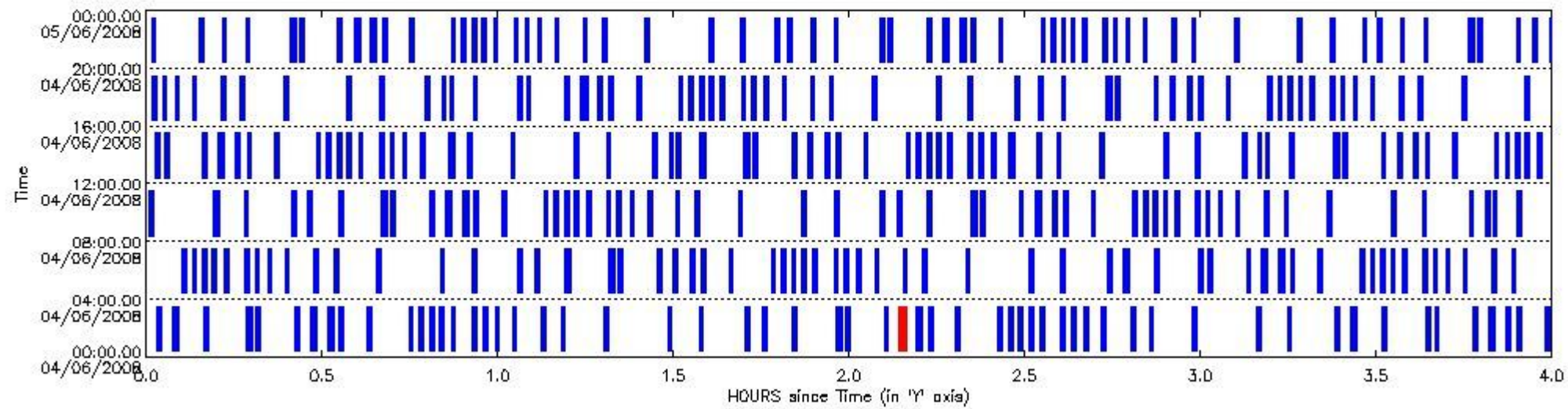
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

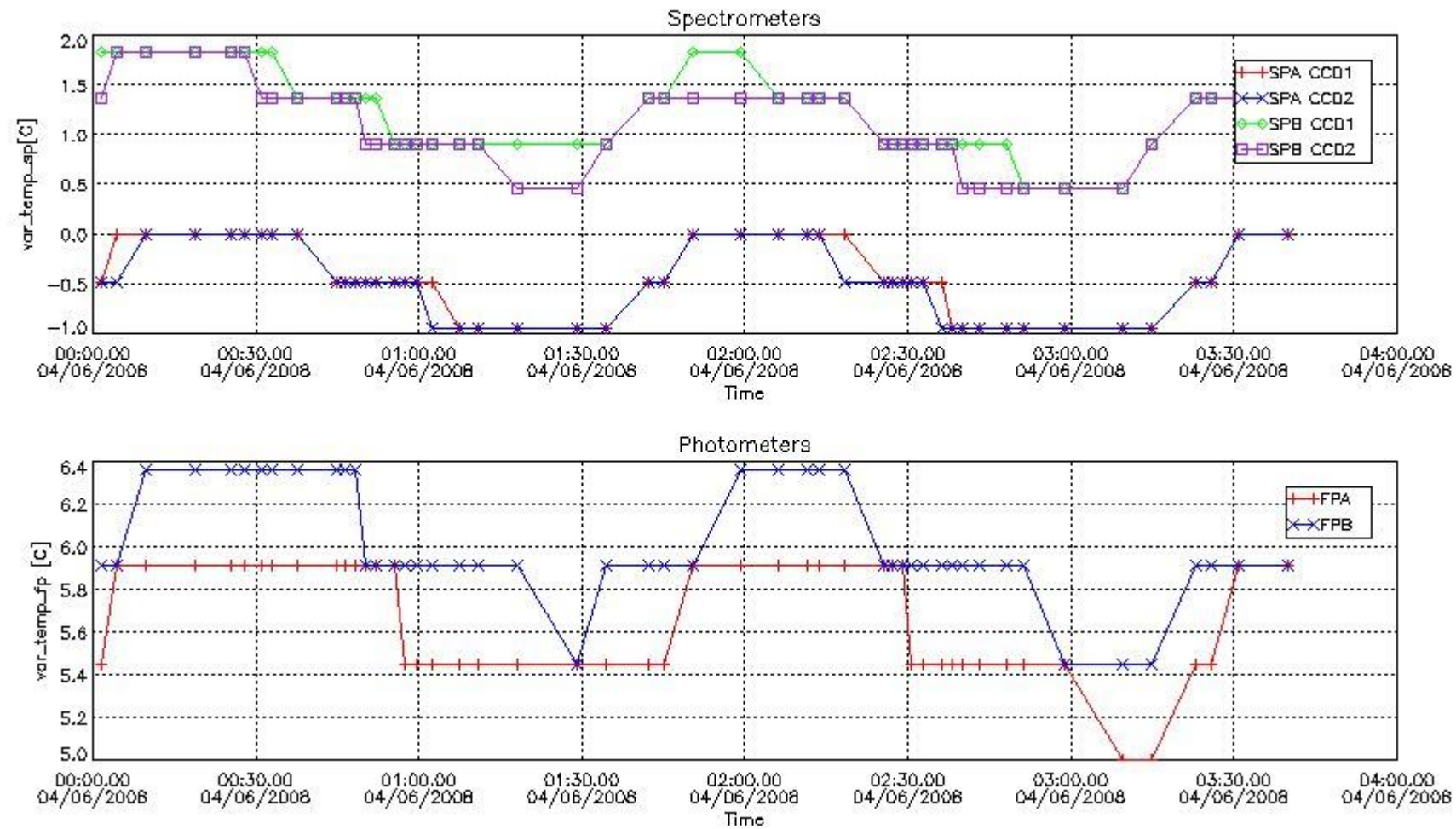
UTC start time	Star name	Star ID	Orbit
04-JUN-2008 02:08:32	24AlpPsA	18	32736

### 2.4 Summary of processed GOM\_TRA\_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20080604_000141_000000482069_00116_32735_8599.N1	04-JUN-2008 00:01:41	Bright	48.000	53	43Bet And	2.0480	3300.0	96	32735	No
2	GOM_TRA_1PNPDE20080604_000428_000000572069_00116_32735_8600.N1	04-JUN-2008 00:04:28	Twilight_stray	57.000	58	21Alp And	2.0730	11000.	114	32735	No
3	GOM_TRA_1PNPDE20080604_000940_000000532069_00116_32735_8601.N1	04-JUN-2008 00:09:40	Dark	52.500	140	88Gam Peg	2.8340	26000.	105	32735	No
4	GOM_TRA_1PNPDE20080604_001845_000000442069_00116_32735_8715.N1	04-JUN-2008 00:18:45	Dark	43.500	52	16Bet Cet	2.0370	4500.0	87	32735	No
5	GOM_TRA_1PNPDE20080604_002523_000000422069_00116_32735_8716.N1	04-JUN-2008 00:25:23	Dark	41.500	84	Alp Phe	2.3970	4500.0	83	32735	No
6	GOM_TRA_1PNPDE20080604_002757_000000722069_00116_32735_8717.N1	04-JUN-2008 00:27:57	Dark	72.000	18	24Alp PsA	1.1660	9700.0	144	32735	No
7	GOM_TRA_1PNPDE20080604_003056_000000622069_00117_32736_8718.N1	04-JUN-2008 00:30:56	Dark	61.500	63	Bet Gru	2.1500	2800.0	123	32736	No
8	GOM_TRA_1PNPDE20080604_003252_000000472069_00117_32736_8719.N1	04-JUN-2008 00:32:52	Dark	47.000	31	Alp Gru	1.7340	15200.	94	32736	No
9	GOM_TRA_1PNPDE20080604_003738_000000432069_00117_32736_8720.N1	04-JUN-2008 00:37:38	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	32736	No
10	GOM_TRA_1PNPDE20080604_004452_000000402069_00117_32736_8721.N1	04-JUN-2008 00:44:52	Straylight	40.000	147	Alp Ara	2.8770	26000.	80	32736	No

11	GOM_TRA_1PNPDE20080604_004634_000000502069_00117_32736_8722.N1	04-JUN-2008 00:46:34	Straylight	50.000	40	The Sco	1.8590	7100.0	100	32736	No
12	GOM_TRA_1PNPDE20080604_004821_000000472069_00117_32736_8723.N1	04-JUN-2008 00:48:21	Twilight_stray	46.500	25	35Lam Sco	1.6200	28000.	93	32736	No
13	GOM_TRA_1PNPDE20080604_005002_000000462069_00117_32736_8724.N1	04-JUN-2008 00:50:02	Twilight_stray	46.000	75	26Eps Sco	2.2910	4250.0	92	32736	No
14	GOM_TRA_1PNPDE20080604_005202_000000452069_00117_32736_8725.N1	04-JUN-2008 00:52:02	Bright	45.000	136	23Tau Sco	2.8220	30000.	90	32736	No
15	GOM_TRA_1PNPDE20080604_005534_000000452069_00117_32736_8726.N1	04-JUN-2008 00:55:34	Bright	44.500	86	35Eta Oph	2.4300	10200.	89	32736	No
16	GOM_TRA_1PNPDE20080604_005723_000000572069_00117_32736_8727.N1	04-JUN-2008 00:57:23	Bright	57.000	98	13Zet Oph	2.5710	30000.	114	32736	No
17	GOM_TRA_1PNPDE20080604_005932_000000392069_00117_32736_8728.N1	04-JUN-2008 00:59:32	Bright	38.500	120	1Del Oph	2.7340	3200.0	77	32736	No
18	GOM_TRA_1PNPDE20080604_010232_000000362069_00117_32736_8729.N1	04-JUN-2008 01:02:32	Bright	35.500	102	24Alp Ser	2.6000	4250.0	71	32736	No
19	GOM_TRA_1PNPDE20080604_010725_000000402069_00117_32736_8730.N1	04-JUN-2008 01:07:25	Bright	39.500	127	27Bet Her	2.7810	4700.0	79	32736	No
20	GOM_TRA_1PNPDE20080604_011045_000000432069_00117_32736_8731.N1	04-JUN-2008 01:10:45	Bright	42.500	133	40Zet Her	2.8070	6000.0	85	32736	No
21	GOM_TRA_1PNPDE20080604_011806_000000422069_00117_32736_8732.N1	04-JUN-2008 01:18:06	Bright	41.500	130	23Bet Dra	2.7990	5800.0	83	32736	No
22	GOM_TRA_1PNPDE20080604_012858_000000462069_00117_32736_8733.N1	04-JUN-2008 01:28:58	Bright	46.000	89	5Alp Cep	2.4510	8000.0	92	32736	No
23	GOM_TRA_1PNPDE20080604_013422_000000402069_00117_32736_8734.N1	04-JUN-2008 01:34:22	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	32736	No
24	GOM_TRA_1PNPDE20080604_014216_000000492069_00117_32736_8735.N1	04-JUN-2008 01:42:16	Bright	49.000	53	43Bet And	2.0480	3300.0	98	32736	No
25	GOM_TRA_1PNPDE20080604_014504_000000562069_00117_32736_8736.N1	04-JUN-2008 01:45:04	Twilight_stray	55.500	58	21Alp And	2.0730	11000.	111	32736	No
26	GOM_TRA_1PNPDE20080604_015017_000000532069_00117_32736_8737.N1	04-JUN-2008 01:50:17	Dark	53.000	140	88Gam Peg	2.8340	26000.	106	32736	No
27	GOM_TRA_1PNPDE20080604_015921_000000502069_00117_32736_8827.N1	04-JUN-2008 01:59:21	Dark	50.000	52	16Bet Cet	2.0370	4500.0	100	32736	No
28	GOM_TRA_1PNPDE20080604_020600_000000432069_00117_32736_8828.N1	04-JUN-2008 02:06:00	Dark	43.000	84	Alp Phe	2.3970	4500.0	86	32736	No
29	GOM_TRA_1PNPDE20080604_021133_000000622069_00118_32737_8829.N1	04-JUN-2008 02:11:33	Dark	61.500	63	Bet Gru	2.1500	2800.0	123	32737	No
30	GOM_TRA_1PNPDE20080604_021329_000000482069_00118_32737_8830.N1	04-JUN-2008 02:13:29	Dark	48.000	31	Alp Gru	1.7340	15200.	96	32737	No
31	GOM_TRA_1PNPDE20080604_021815_000000432069_00118_32737_8831.N1	04-JUN-2008 02:18:15	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	32737	No
32	GOM_TRA_1PNPDE20080604_022529_000000392069_00118_32737_8832.N1	04-JUN-2008 02:25:29	Straylight	39.000	147	Alp Ara	2.8770	26000.	78	32737	No
33	GOM_TRA_1PNPDE20080604_022711_000000452069_00118_32737_8833.N1	04-JUN-2008 02:27:11	Straylight	45.000	40	The Sco	1.8590	7100.0	90	32737	No
34	GOM_TRA_1PNPDE20080604_022858_000000432069_00118_32737_8834.N1	04-JUN-2008 02:28:58	Twilight_stray	43.000	25	35Lam Sco	1.6200	28000.	86	32737	No
35	GOM_TRA_1PNPDE20080604_023039_000000452069_00118_32737_8835.N1	04-JUN-2008 02:30:39	Twilight_stray	45.000	75	26Eps Sco	2.2910	4250.0	90	32737	No
36	GOM_TRA_1PNPDE20080604_023238_000000442069_00118_32737_8836.N1	04-JUN-2008 02:32:38	Bright	44.000	136	23Tau Sco	2.8220	30000.	88	32737	No
37	GOM_TRA_1PNPDE20080604_023610_000000432069_00118_32737_8837.N1	04-JUN-2008 02:36:10	Bright	43.000	86	35Eta Oph	2.4300	10200.	86	32737	No
38	GOM_TRA_1PNPDE20080604_023759_000000392069_00118_32737_8838.N1	04-JUN-2008 02:37:59	Bright	38.500	98	13Zet Oph	2.5710	30000.	77	32737	No
39	GOM_TRA_1PNPDE20080604_024008_000000382069_00118_32737_8839.N1	04-JUN-2008 02:40:08	Bright	38.000	120	1Del Oph	2.7340	3200.0	76	32737	No
40	GOM_TRA_1PNPDE20080604_024308_000000362069_00118_32737_8840.N1	04-JUN-2008 02:43:08	Bright	35.500	102	24Alp Ser	2.6000	4250.0	71	32737	No
41	GOM_TRA_1PNPDE20080604_024801_000000592069_00118_32737_8841.N1	04-JUN-2008 02:48:01	Bright	59.000	127	27Bet Her	2.7810	4700.0	118	32737	No
42	GOM_TRA_1PNPDE20080604_025120_000000402069_00118_32737_8842.N1	04-JUN-2008 02:51:20	Bright	40.000	133	40Zet Her	2.8070	6000.0	80	32737	No
43	GOM_TRA_1PNPDE20080604_025841_000000462069_00118_32737_8843.N1	04-JUN-2008 02:58:41	Bright	45.500	130	23Bet Dra	2.7990	5800.0	91	32737	No
44	GOM_TRA_1PNPDE20080604_030934_000000472069_00118_32737_8961.N1	04-JUN-2008 03:09:34	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	32737	No
45	GOM_TRA_1PNPDE20080604_031458_000000372069_00118_32737_8962.N1	04-JUN-2008 03:14:58	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	32737	No
46	GOM_TRA_1PNPDE20080604_032252_000000492069_00118_32737_8963.N1	04-JUN-2008 03:22:52	Bright	48.500	53	43Bet And	2.0480	3300.0	97	32737	No
47	GOM_TRA_1PNPDE20080604_032540_000000572069_00118_32737_8964.N1	04-JUN-2008 03:25:40	Twilight_stray	57.000	58	21Alp And	2.0730	11000.	114	32737	No
48	GOM_TRA_1PNPDE20080604_033053_000000562069_00118_32737_8965.N1	04-JUN-2008 03:30:53	Dark	55.500	140	88Gam Peg	2.8340	26000.	111	32737	No
49	GOM_TRA_1PNPDE20080604_033958_000000472069_00118_32737_8966.N1	04-JUN-2008 03:39:58	Dark	47.000	52	16Bet Cet	2.0370	4500.0	94	32737	No

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



#### 4. Overview of dark signal processing per product

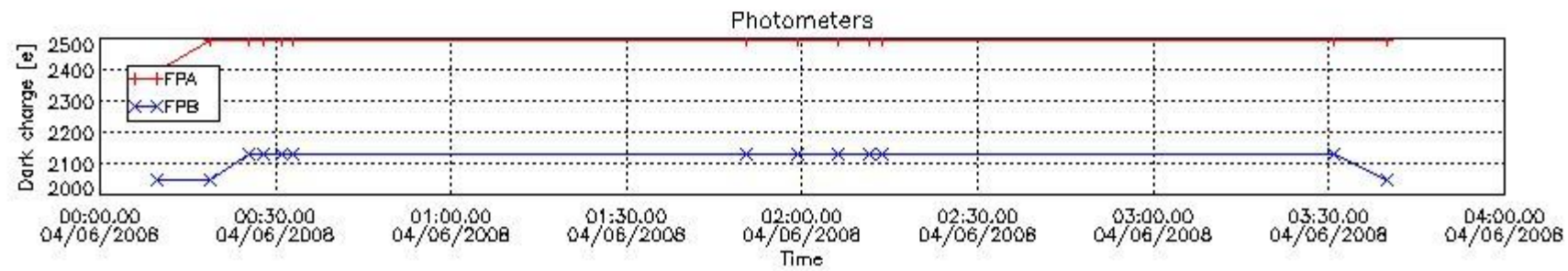
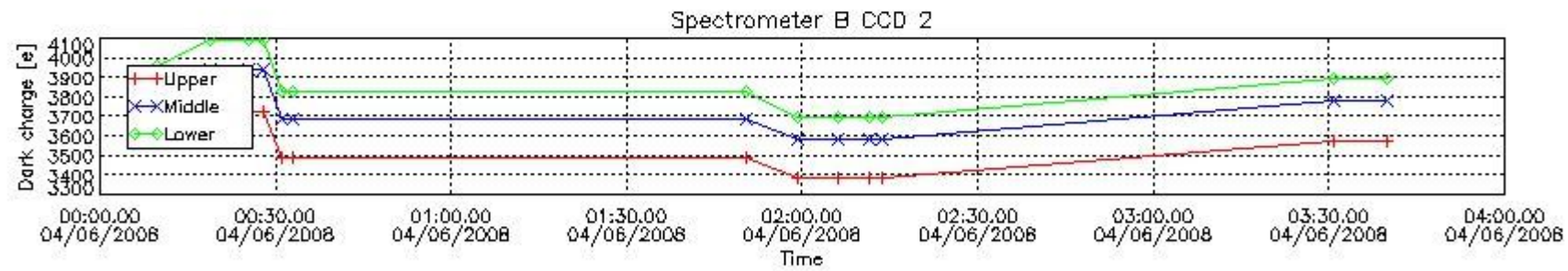
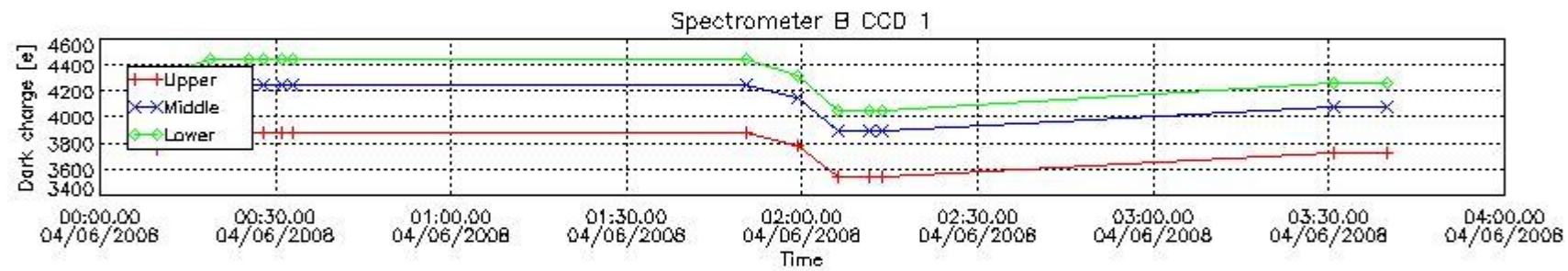
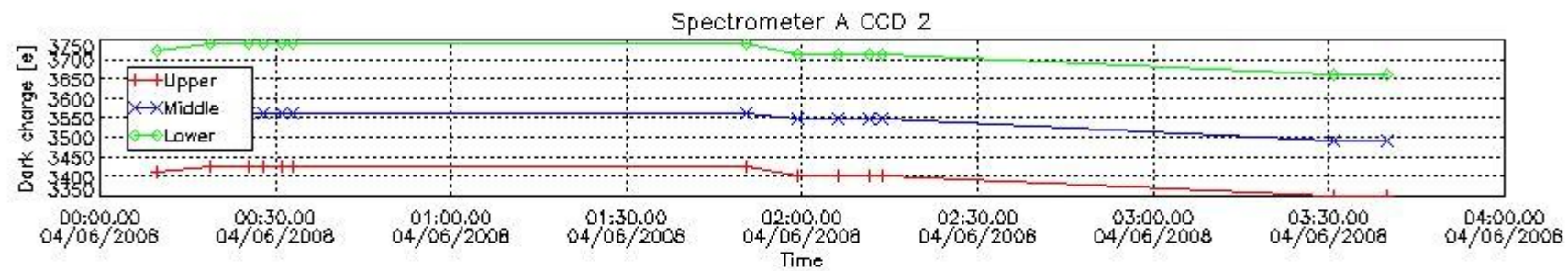
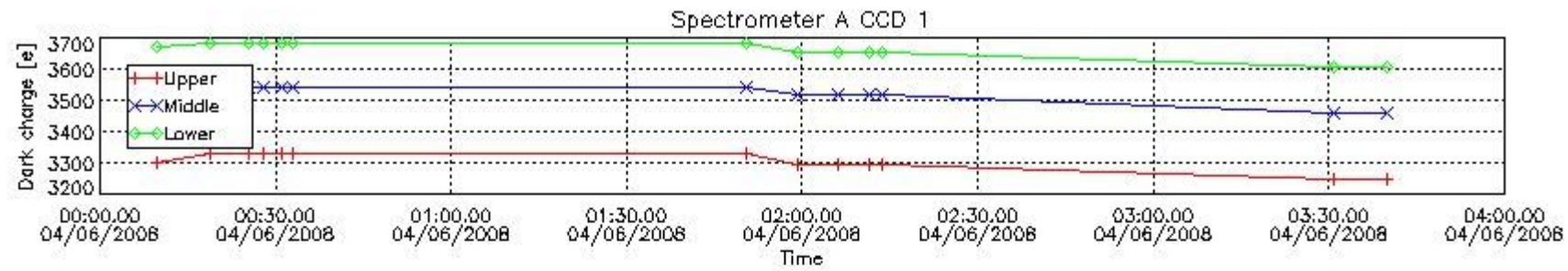
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

##### 4.1 All products used the DSA observation for the DC computation

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





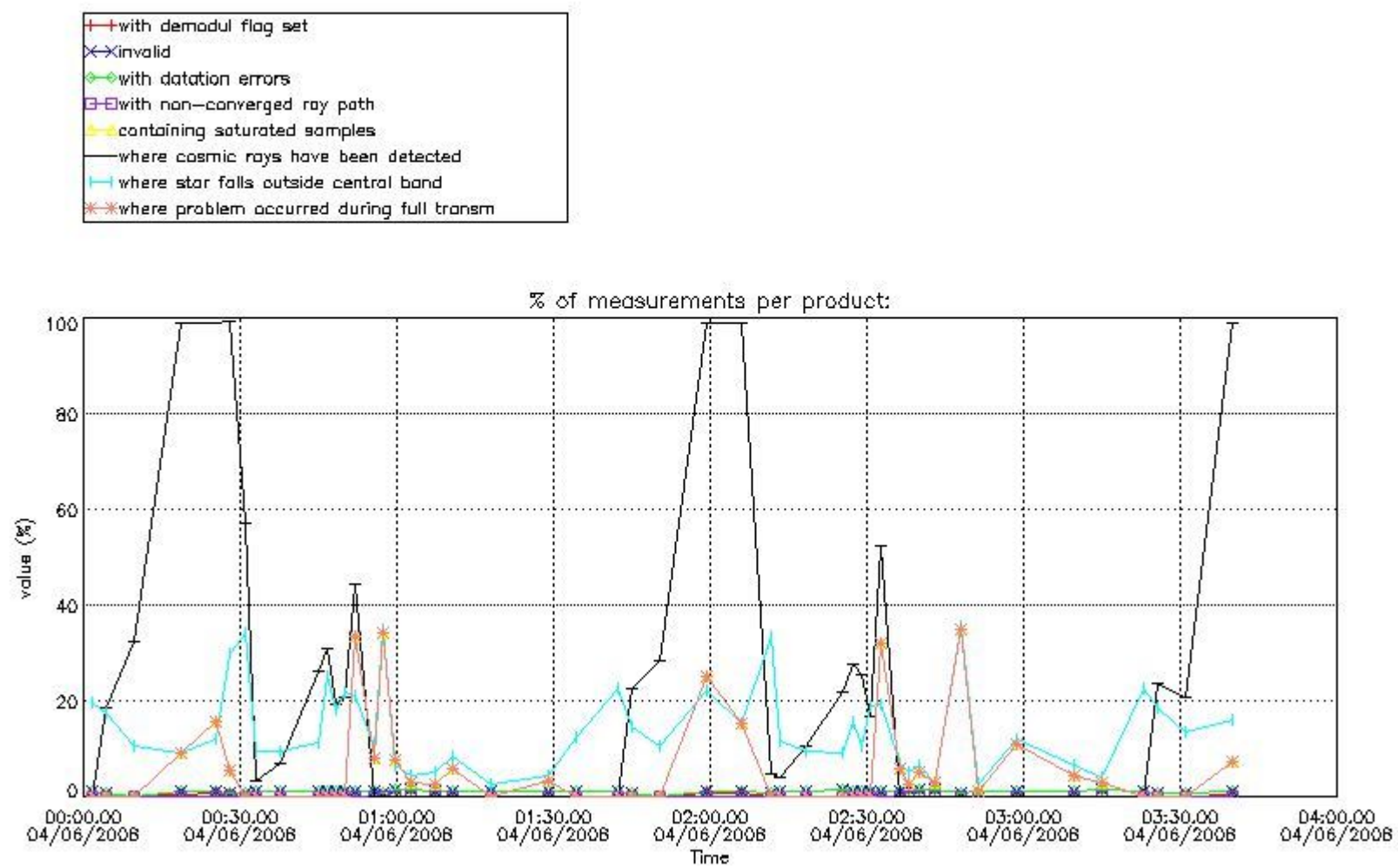
## 5. Demodulation flag and quality information monitoring

In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

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

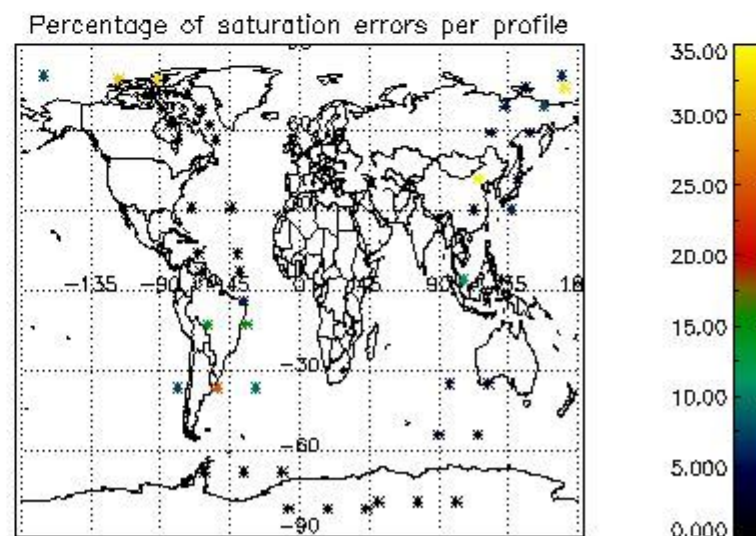
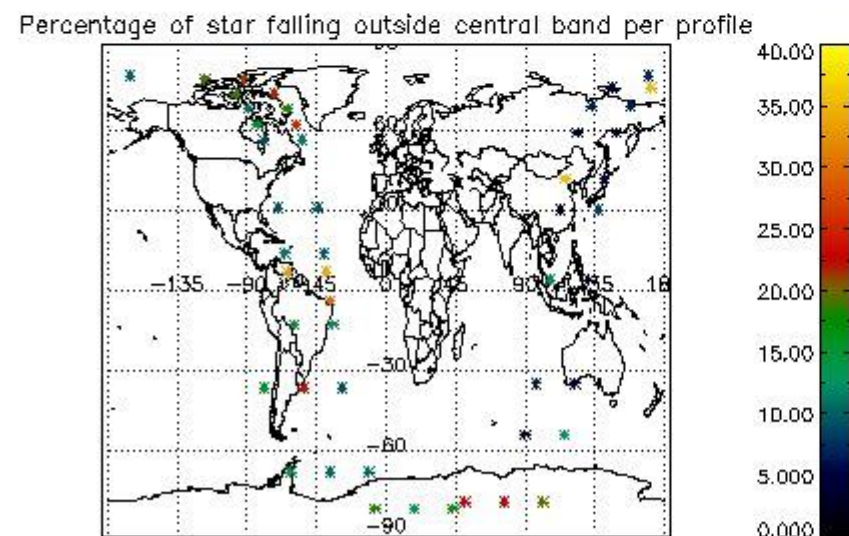
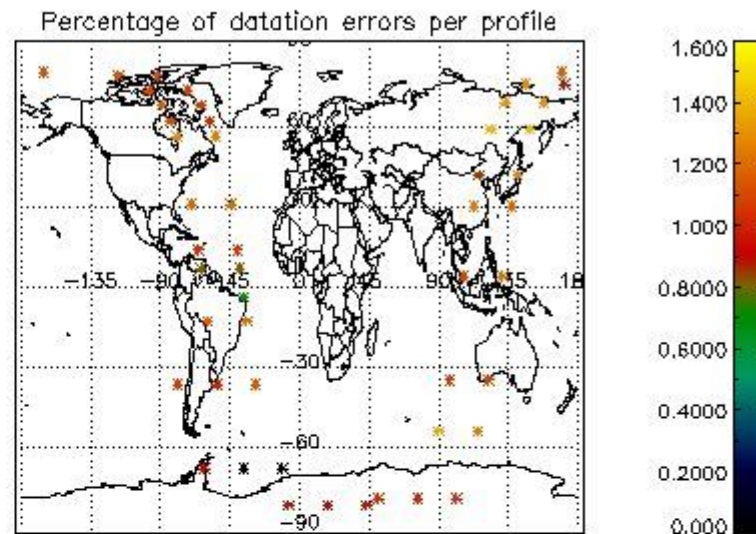
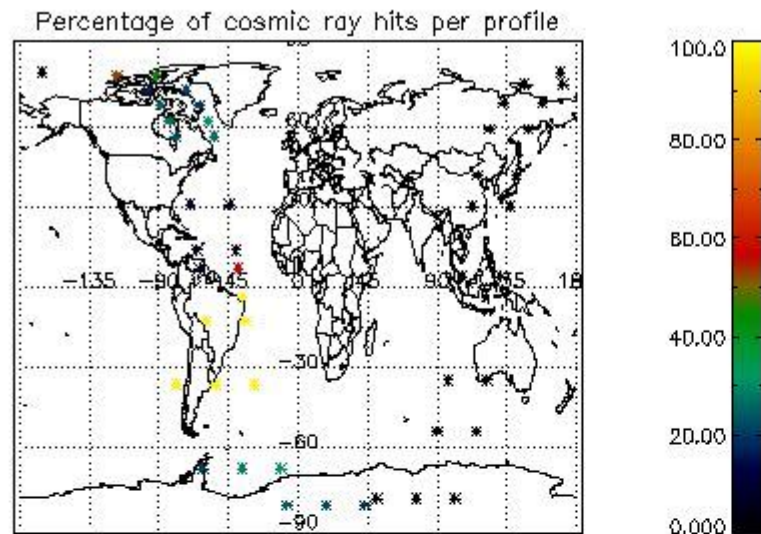
At least one measurement with demodulation flag set:	36.7347 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)





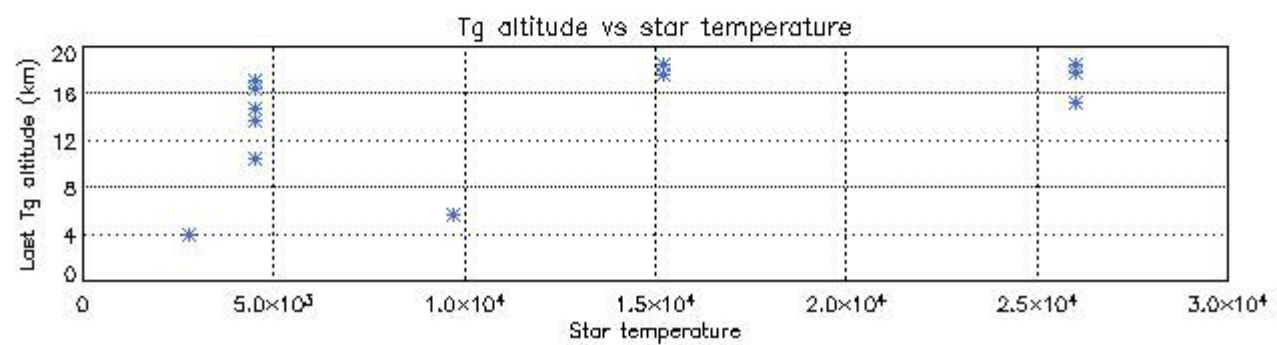
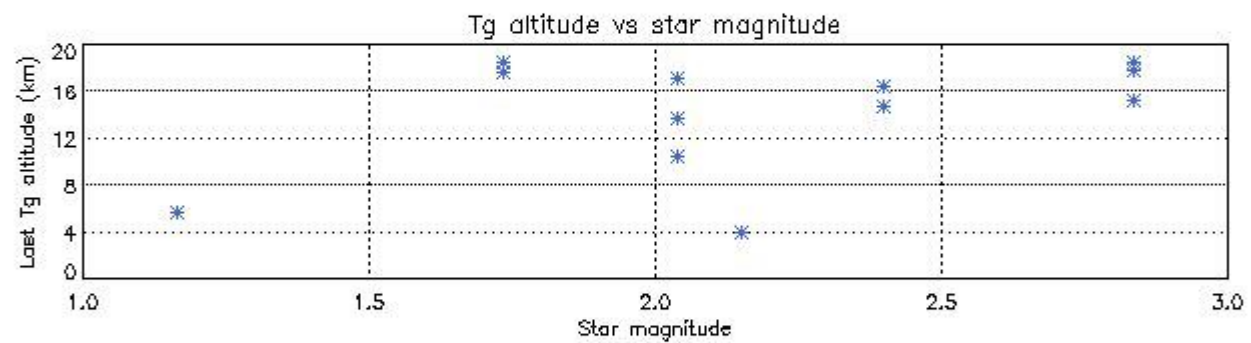
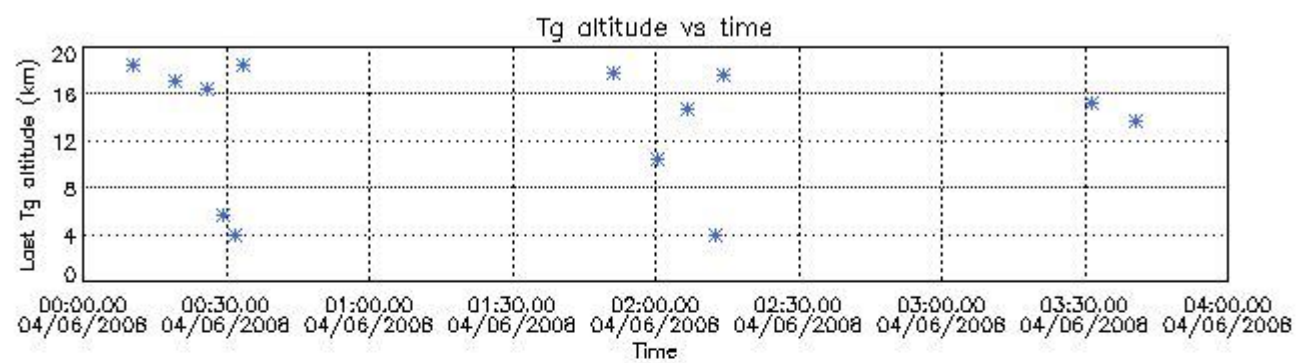
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.365	17.729	NaN
St. deviation:	5.4957	6.2095	NaN
Maximum:	18.547	25.070	NaN
Minimum:	3.9580	3.8321	NaN
Number of data:	13.000	23.000	NaN

### 6.2 Plot for DARK limb products

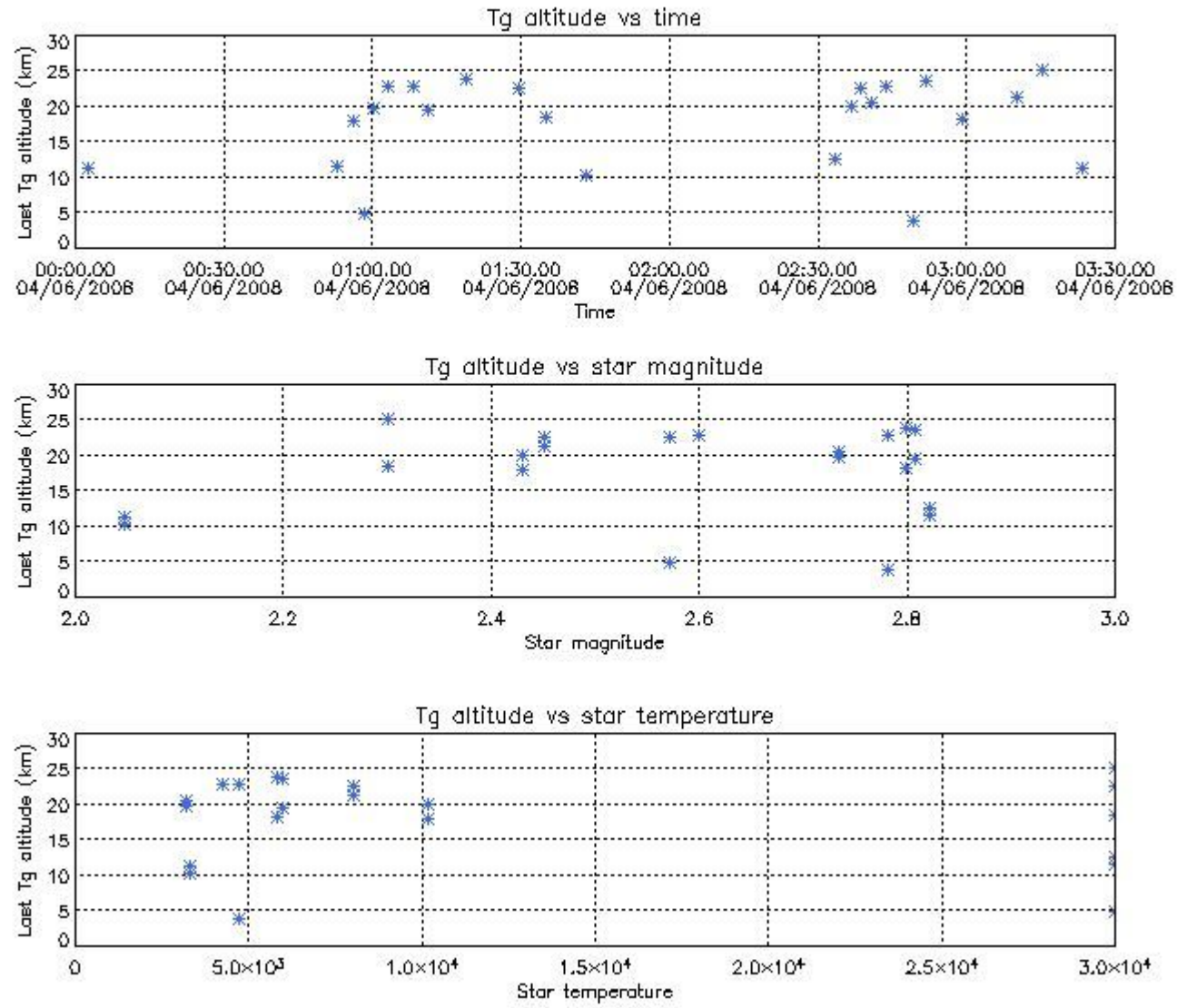
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

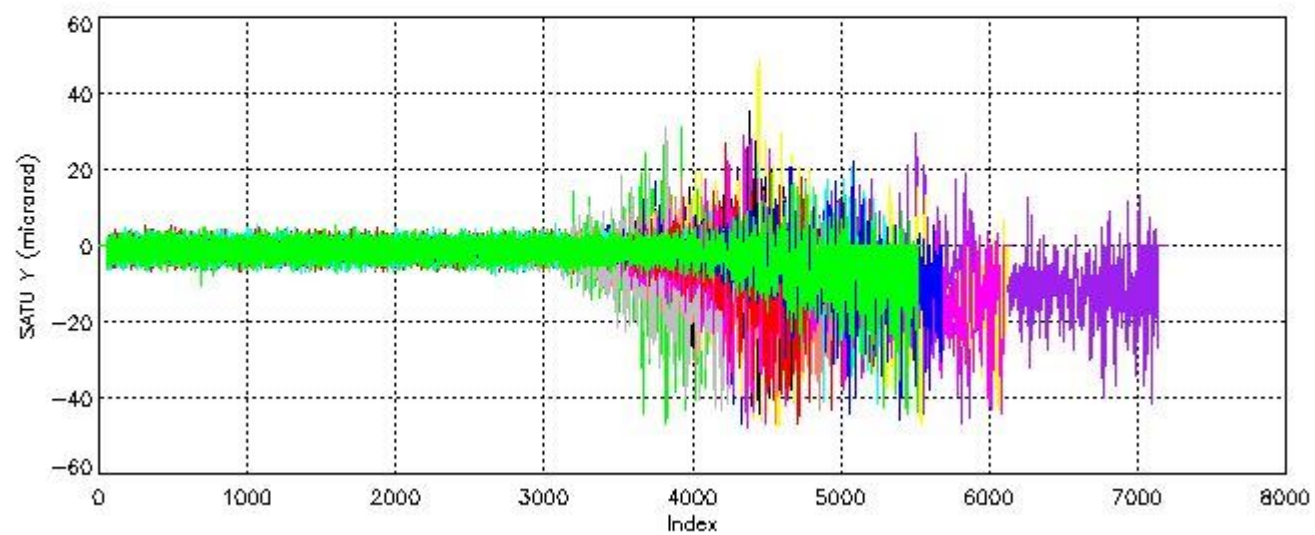
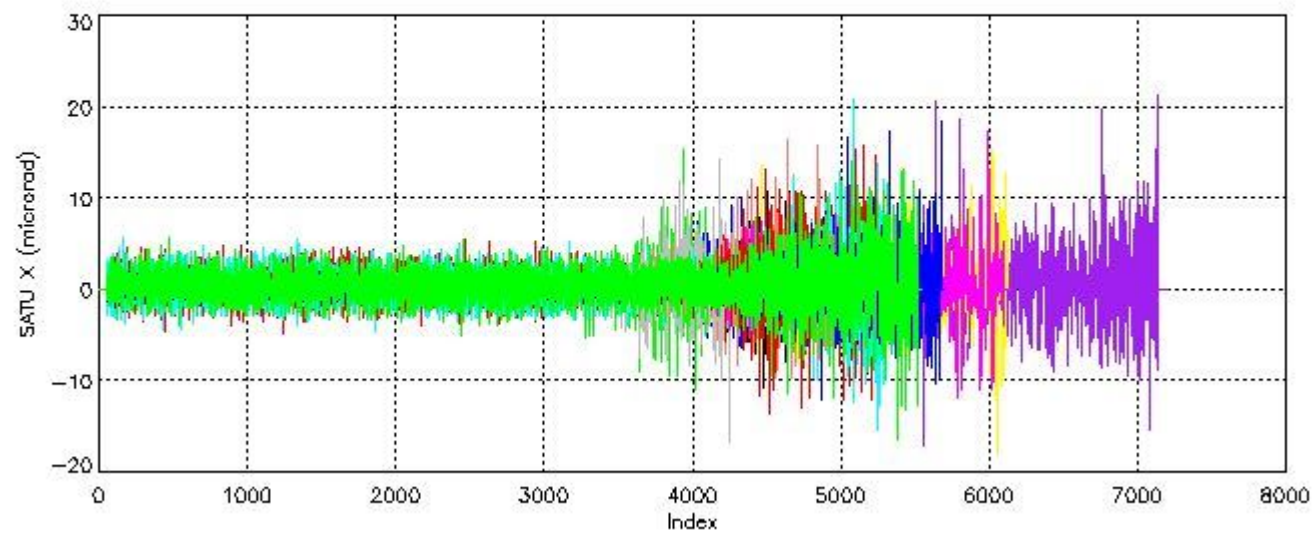


## 7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

### 7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



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

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.27045	-1.2544	0.24542	-1.2279
St. deviation:	0.60993	1.1289	0.80957	1.2813
Maximum:	5.7000	5.4000	4.9000	5.0000
Minimum:	-4.7000	-10.600	-4.3000	-7.7000

Number of data:	14250.	14250.	21500.	21500.
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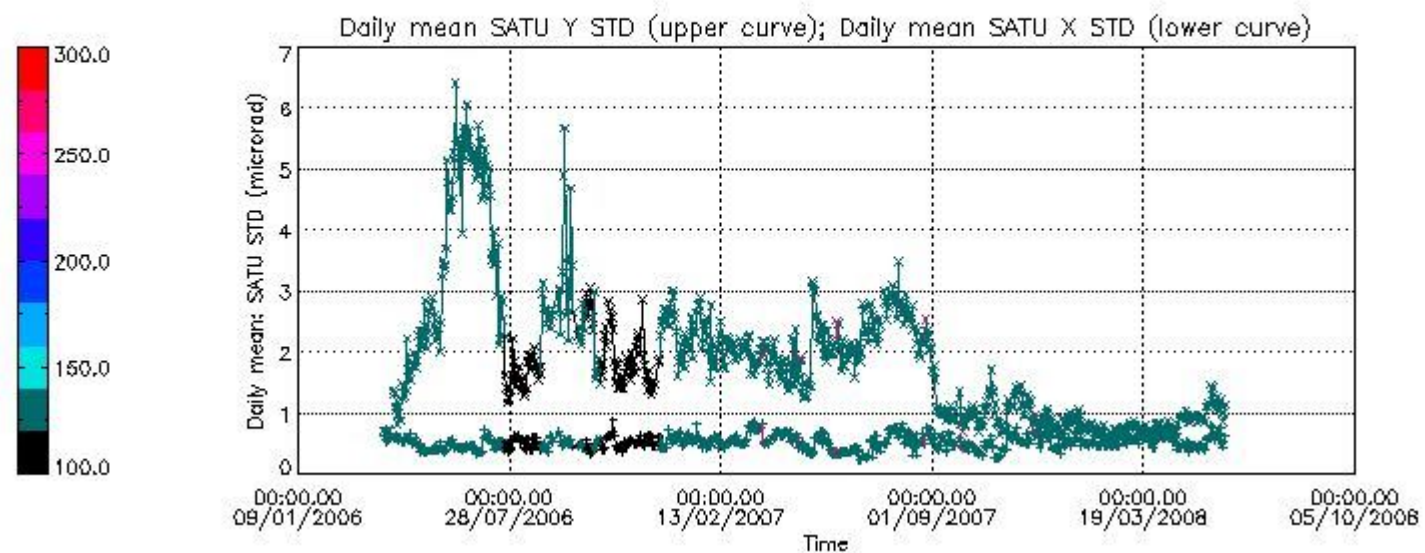
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

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

Upper curve: STD of SATU Y axis

Lower curve: STD of SATU X axis

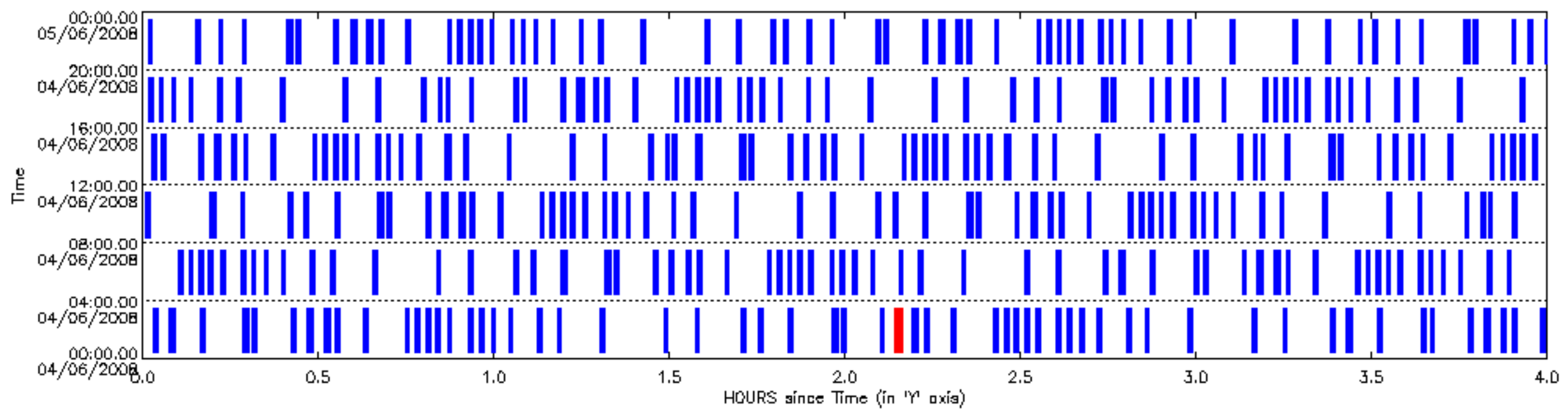


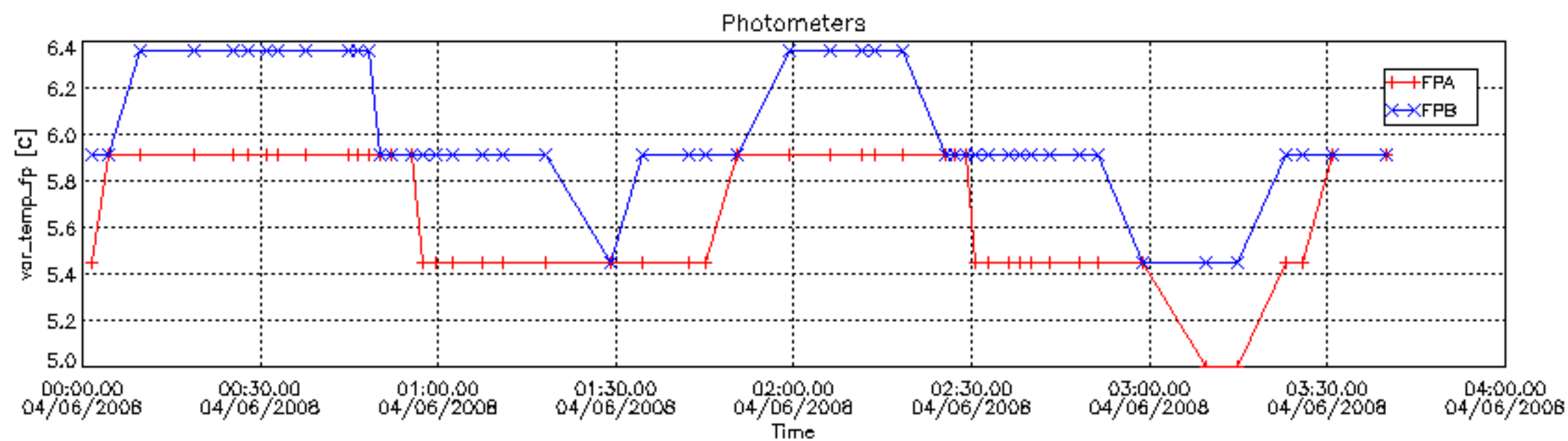
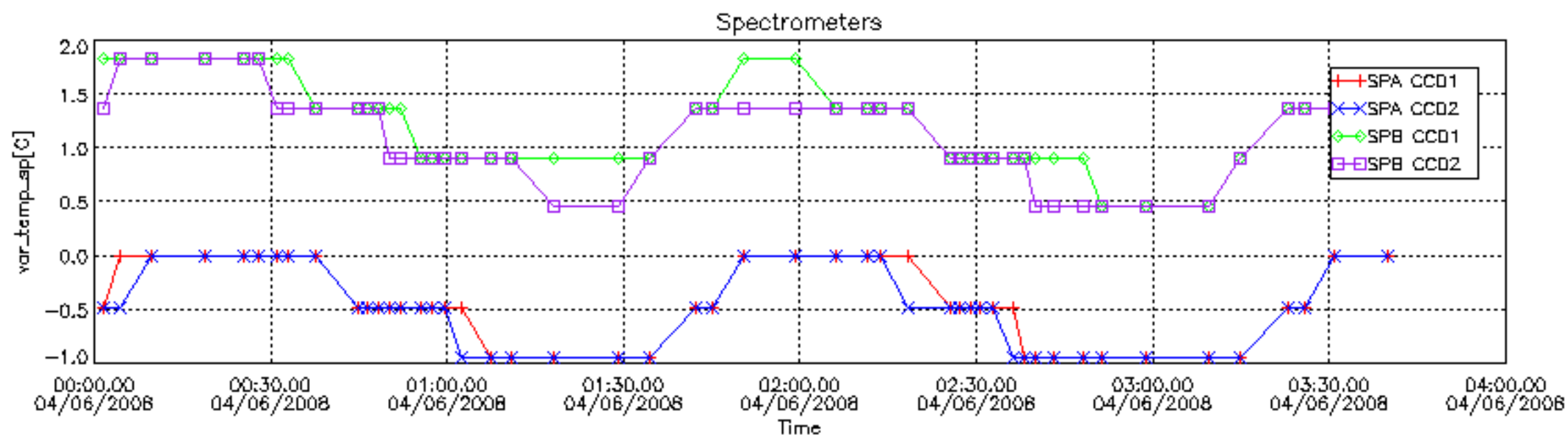
### 8. Auxiliary Data Files used for the production reported in section 2.4

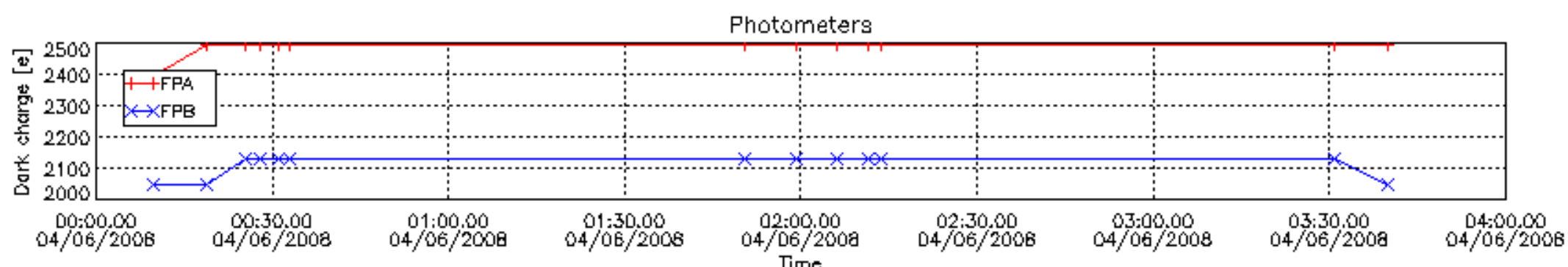
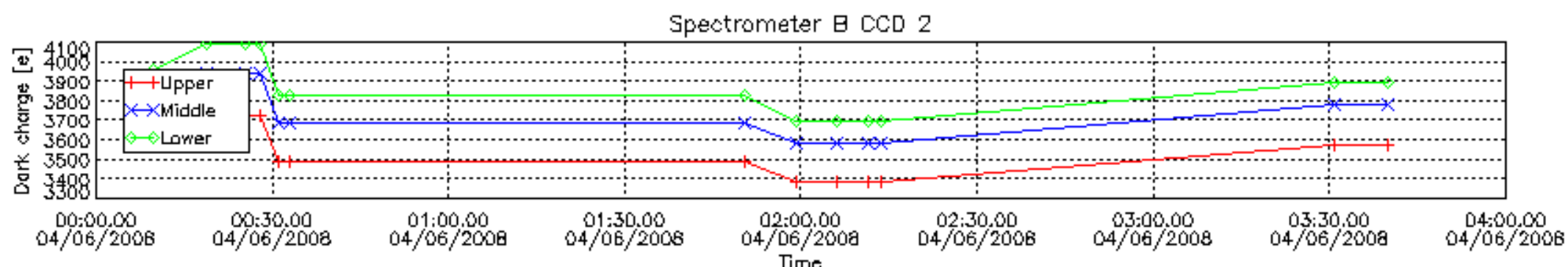
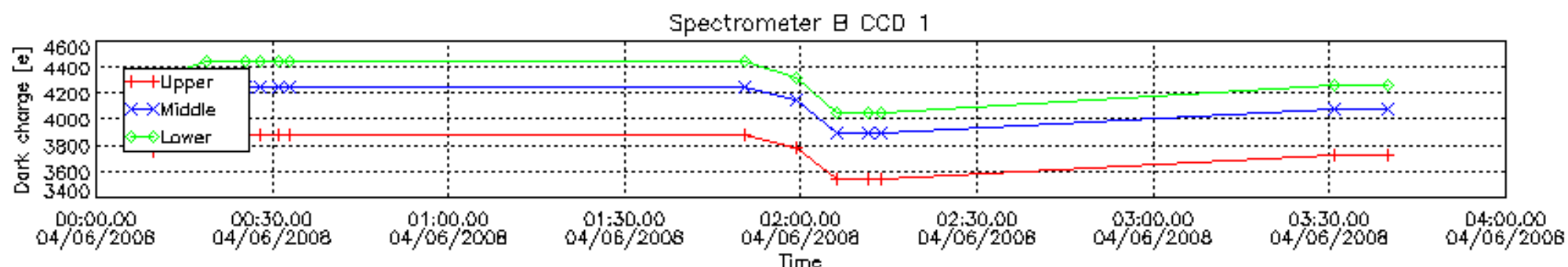
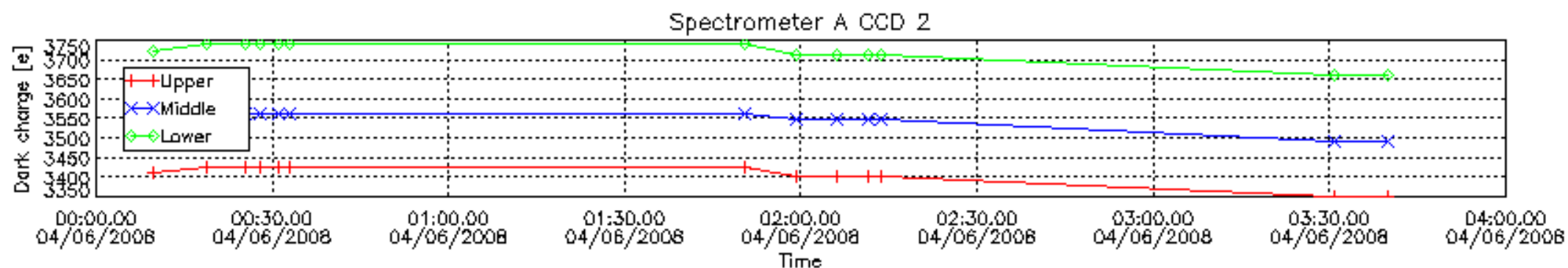
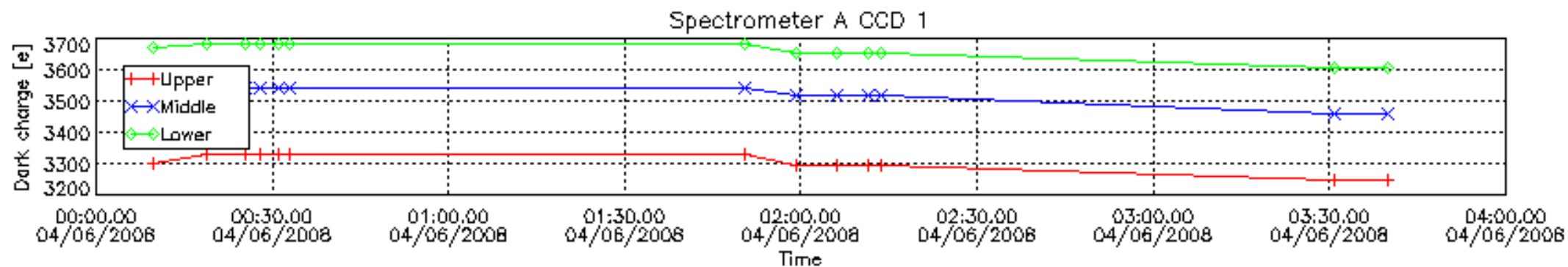
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	04-JUN-2008 00:01:41
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080530_132758_20080528_000000_20100101_000000	1	04-JUN-2008 00:01:41
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	04-JUN-2008 00:01:41
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	04-JUN-2008 00:01:41
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	04-JUN-2008 00:01:41
ECMWF_FILE	AUX_ECF_AXNECM20080603_072113_20080603_210000_20080604_090000	1	04-JUN-2008 00:01:41
ECMWF_FILE	AUX_ECF_AXNECM20080603_192113_20080604_030000_20080604_150000	44	04-JUN-2008 03:09:34
OPTIONAL_ECMWF_FILE	MISSING	1	04-JUN-2008 00:01:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080603_204805_000060572069_00114_32733_5664.N1	1	04-JUN-2008 00:01:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080603_223421_000057382069_00115_32734_5665.N1	4	04-JUN-2008 00:18:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080604_001518_000054192069_00116_32735_5666.N1	27	04-JUN-2008 01:59:21
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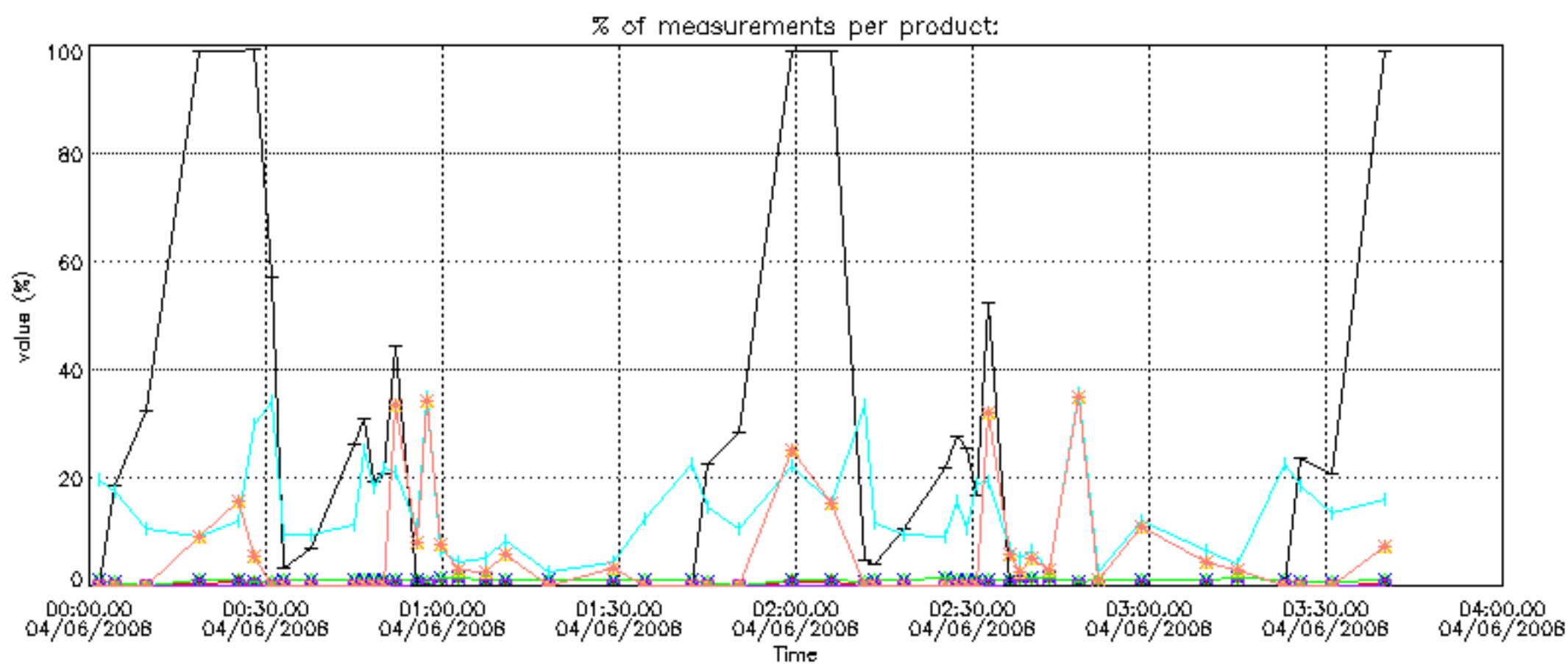




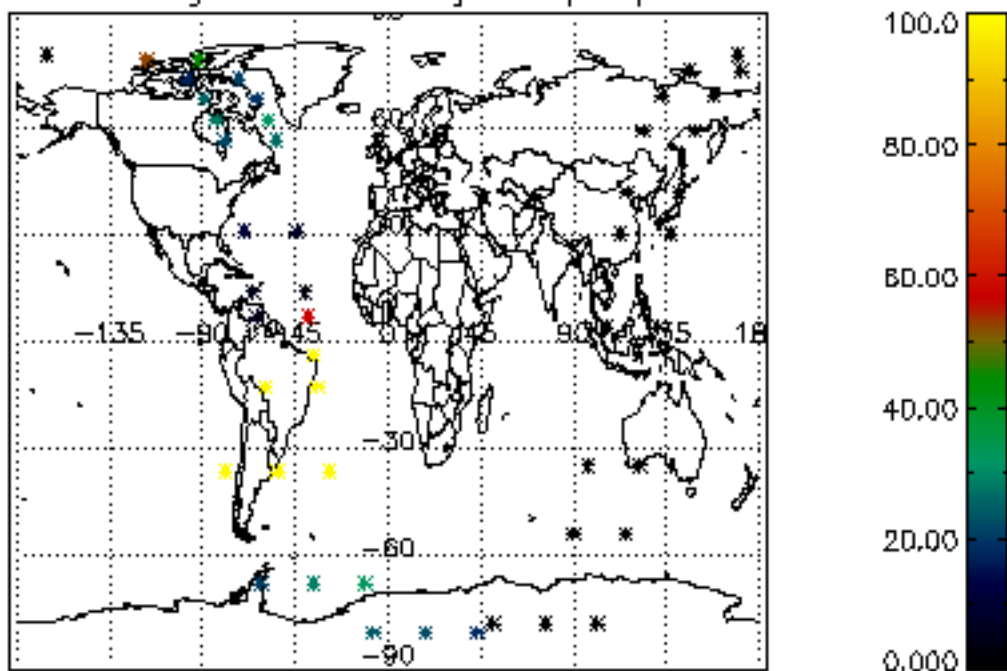




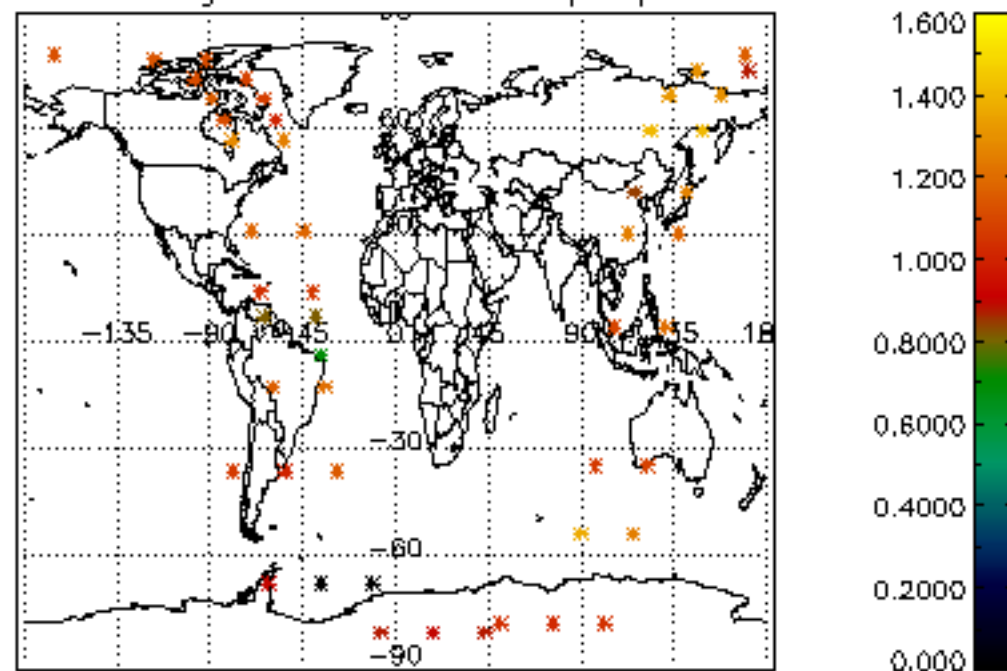




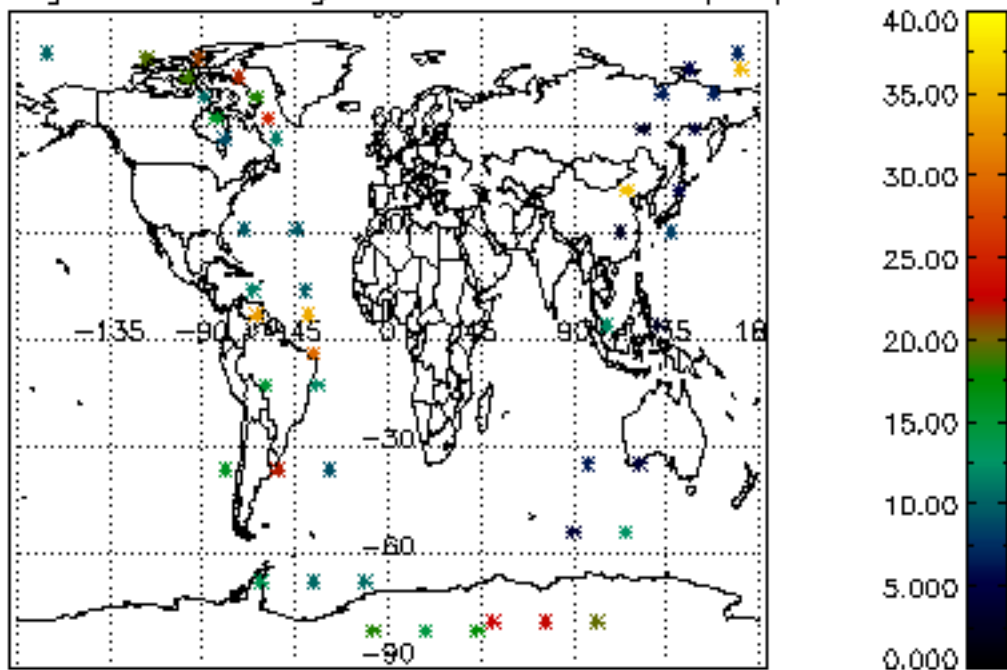
Percentage of cosmic ray hits per profile



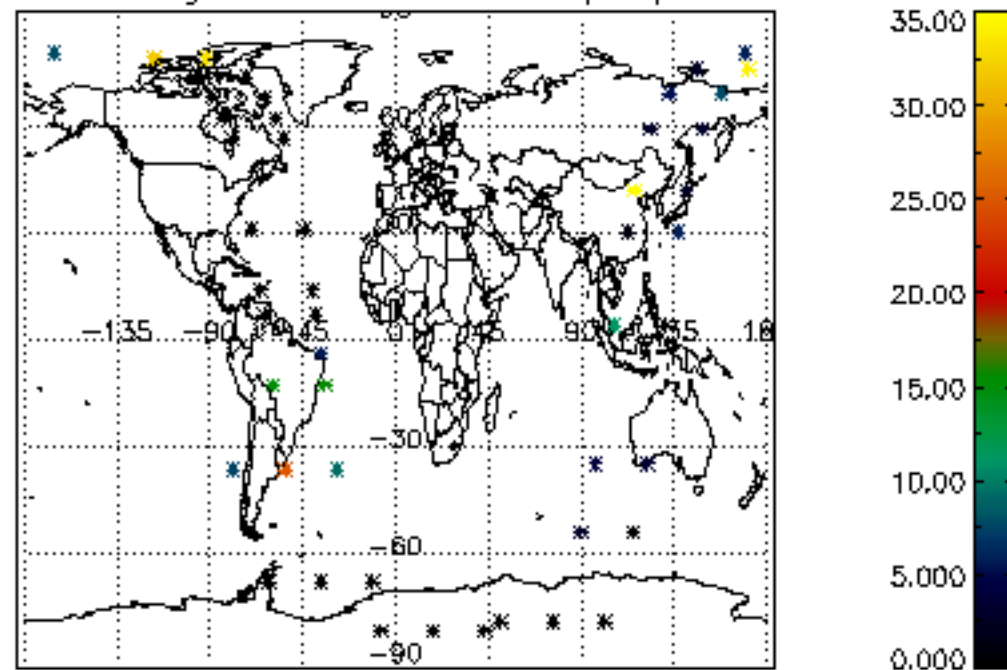
Percentage of datation errors per profile



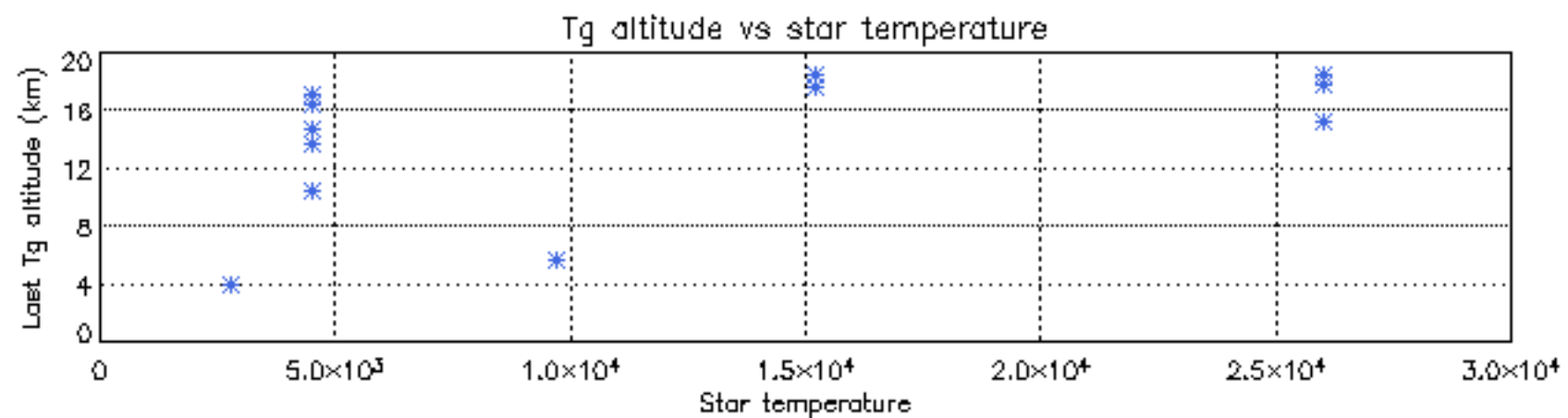
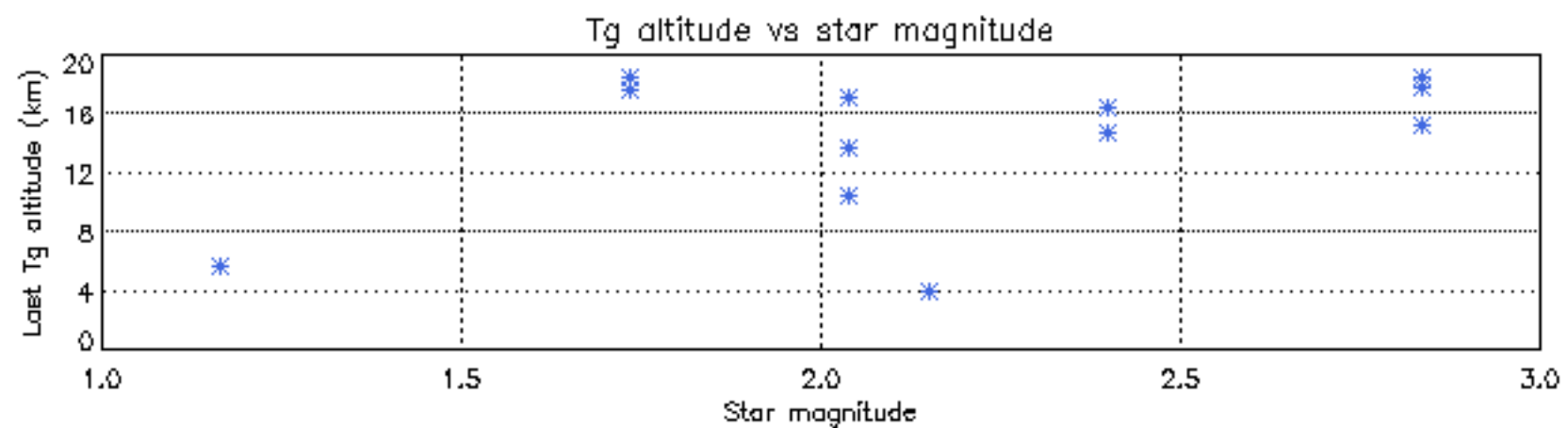
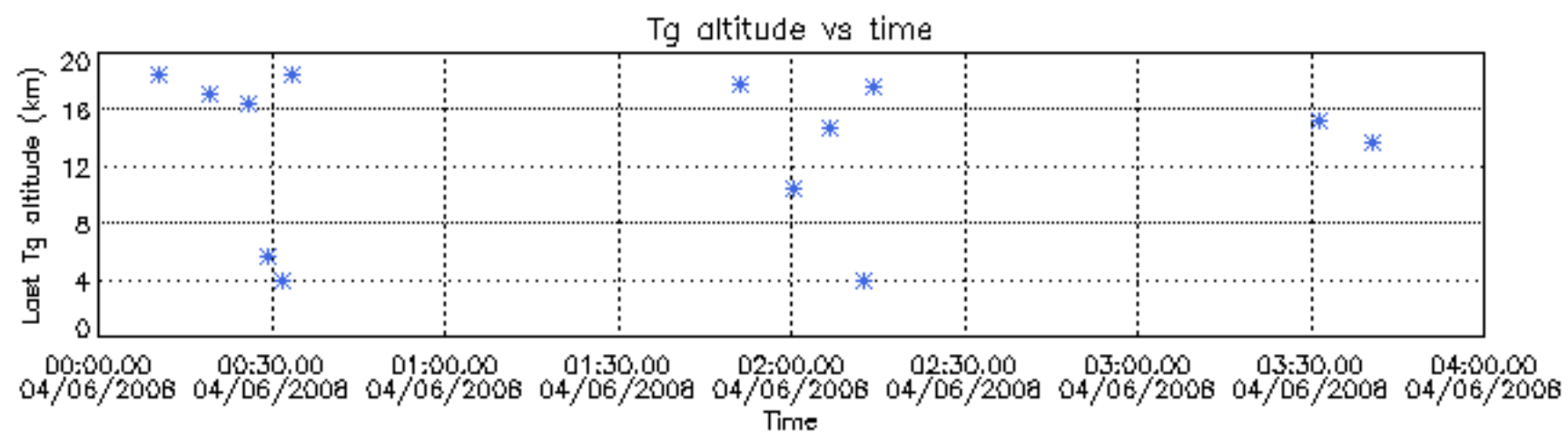
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

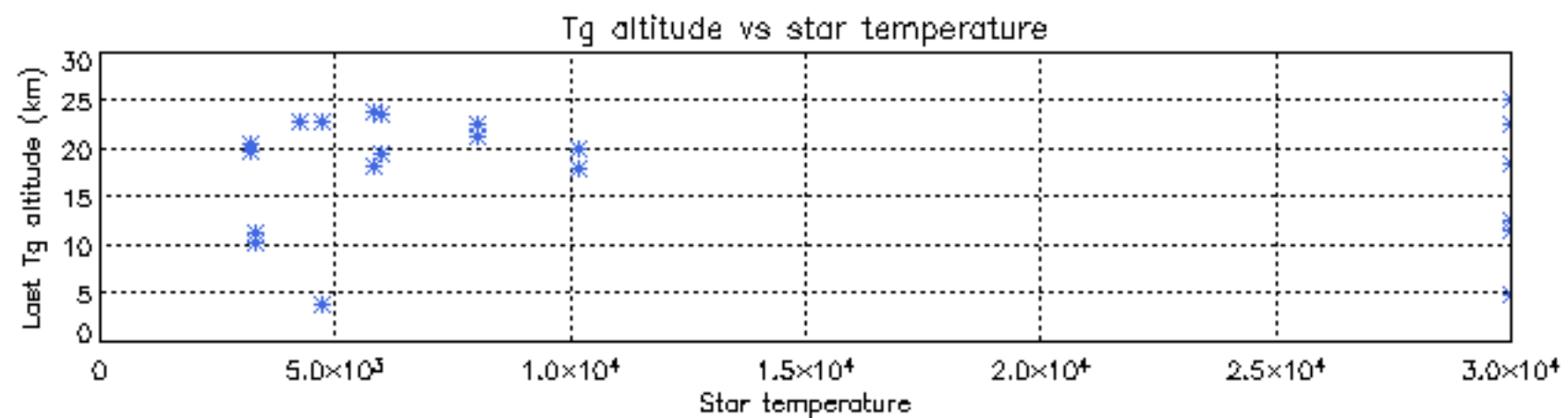
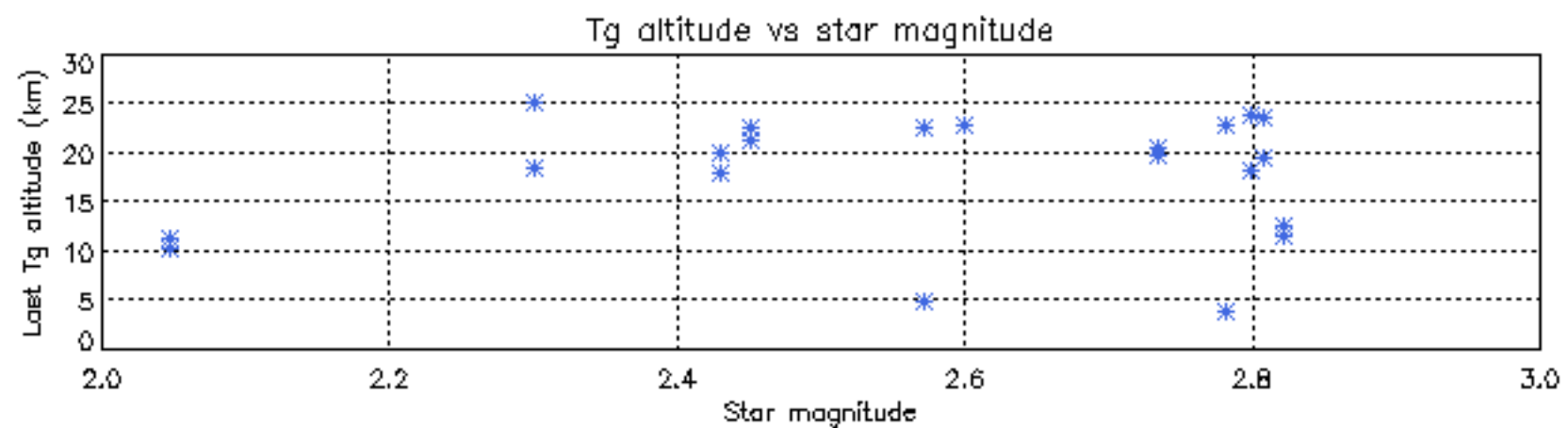
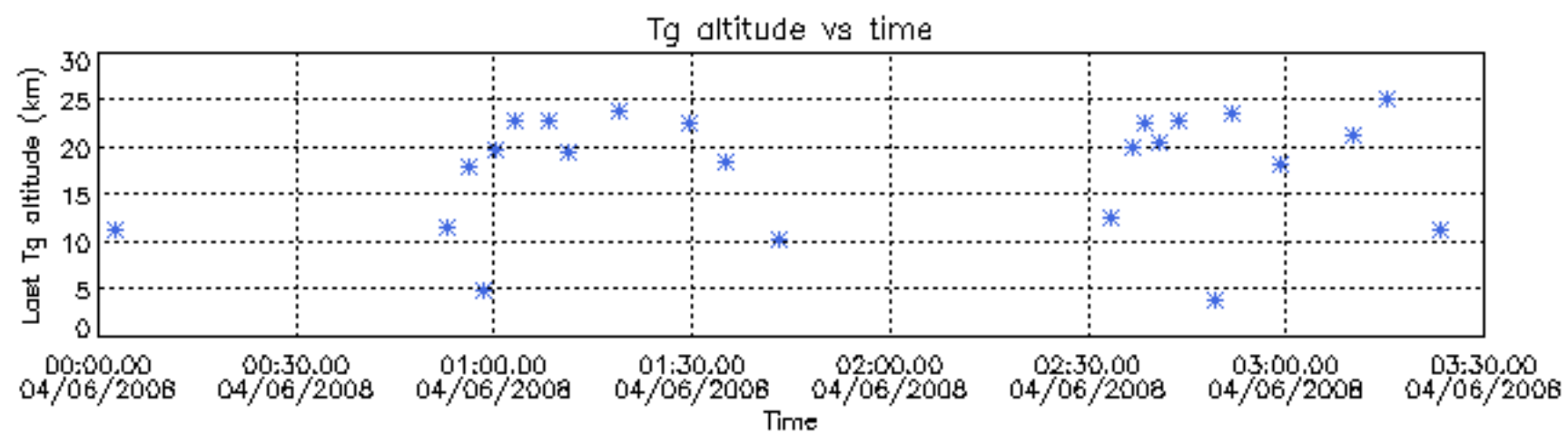


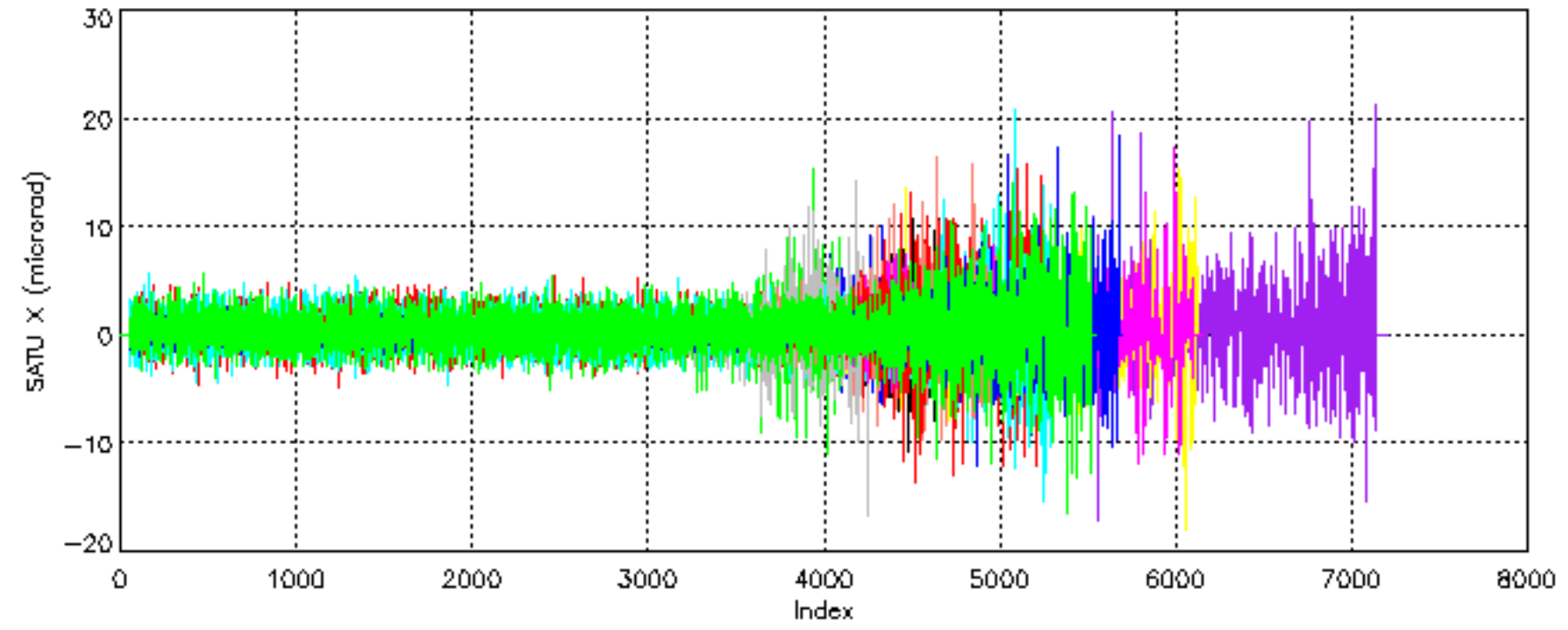
Tangent altitude at which the star is lost

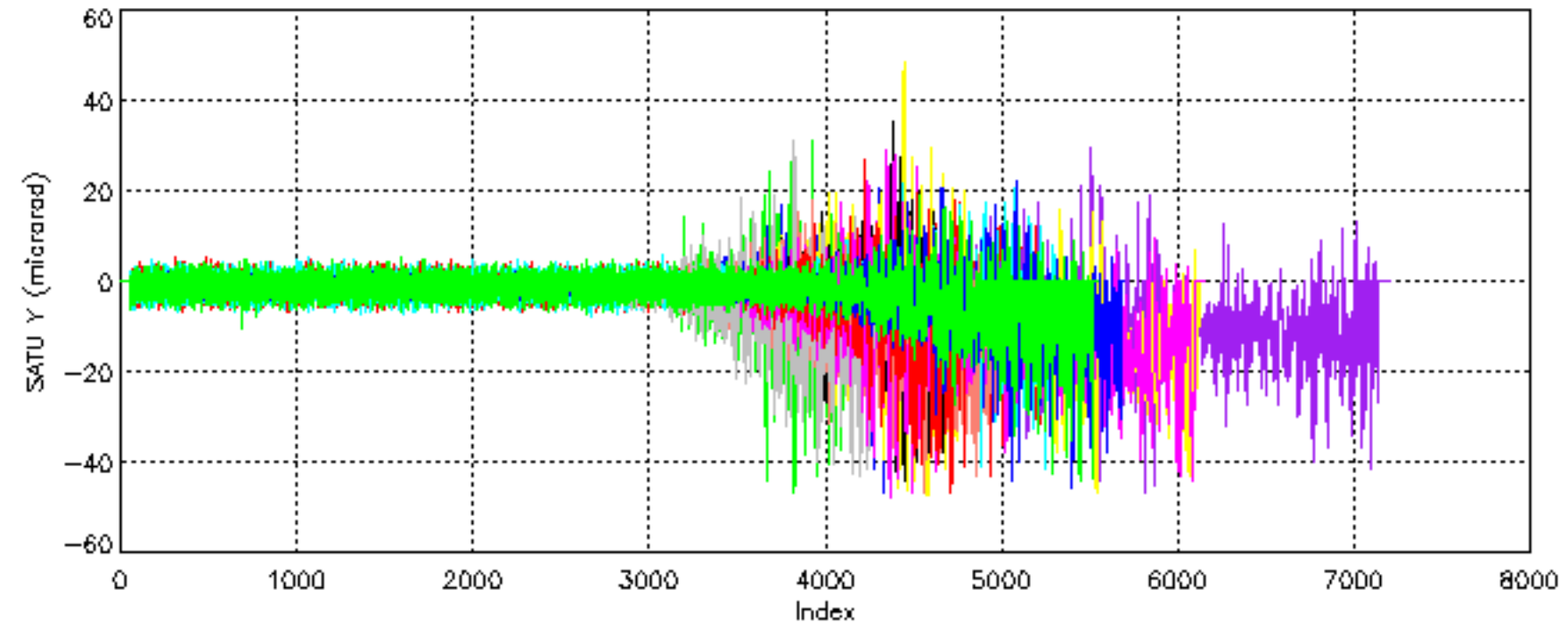




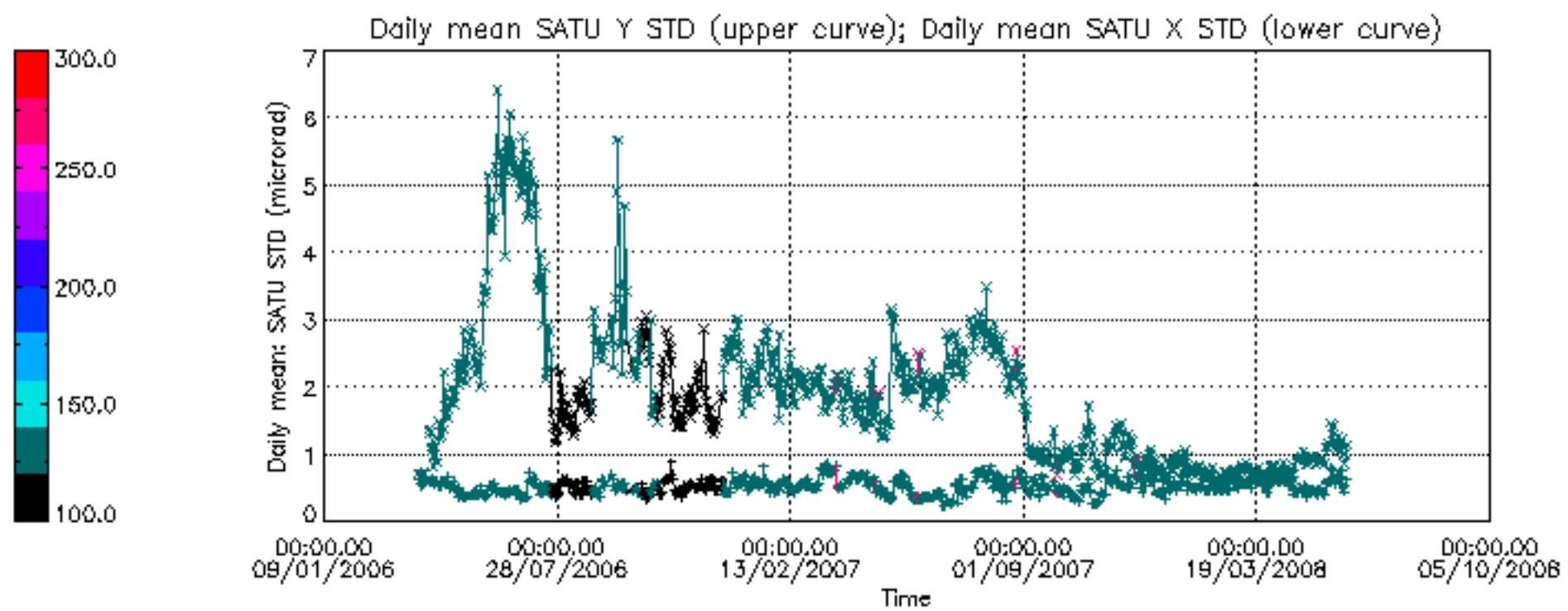
Tangent altitude at which the star is lost











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 4; 80.8; 01-JUN-2008 00:24:34; Dark ; 61.5; 63; Bet Gru ; 2.15; 2800;occ; 123; 0;32693  
 5; 193.6; 01-JUN-2008 00:26:26; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;32693  
 6; 491.2; 01-JUN-2008 00:31:24; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;32693  
 7; 936.9; 01-JUN-2008 00:38:50; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;32693  
 8; 1038.2; 01-JUN-2008 00:40:31; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;32693  
 9; 1146.2; 01-JUN-2008 00:42:19; Dark ; 48.0; 25; 35Lam Sco ; 1.62; 28000;occ; 96; 0;32693  
 10; 1251.9; 01-JUN-2008 00:44:05; Dark ; 45.0; 75; 26Eps Sco ; 2.29; 4250;occ; 90; 0;32693  
 11; 1373.9; 01-JUN-2008 00:46:07; Dark ; 47.5; 136; 23Tau Sco ; 2.82; 30000;occ; 95; 0;32693  
 12; 1498.6; 01-JUN-2008 00:48:11; Bright; 37.0; 80; 7Del Sco ; 2.32; 30000;occ; 74; 0;32693  
 13; 1591.4; 01-JUN-2008 00:49:44; Bright; 46.0; 86; 35Eta Oph ; 2.43; 10200;occ; 92; 0;32693  
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 18; 2526.4; 01-JUN-2008 01:05:19; Bright; 41.0; 133; 40Zet Her ; 2.81; 6000;occ; 82; 0;32693  
 19; 3003.7; 01-JUN-2008 01:13:16; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;32693  
 20; 3626.4; 01-JUN-2008 01:23:39; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;32693  
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 5; 194.6; 01-JUN-2008 02:07:03; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;32694  
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 19; 3003.4; 01-JUN-2008 02:53:52; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;32694  
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 12; 937.9; 01-JUN-2008 04:00:02; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;32695  
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23; 2525.7; 01-JUN-2008 04:26:30; Bright; 41.5; 133; 40Zet Her ; 2.81; 6000;occ; 83; 0;32695
24; 3003.4; 01-JUN-2008 04:34:28; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;32695
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7; 539.7; 06-JUN-2008 01:15:20; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;32765
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11; 1390.3; 06-JUN-2008 01:29:30; Dark ; 43.5; 136; 23Tau Sco ; 2.82; 30000;occ; 87; 0;32765
12; 1598.8; 06-JUN-2008 01:32:59; Bright; 42.0; 86; 35Eta Oph ; 2.43; 10200;occ; 84; 0;32765
13; 1706.5; 06-JUN-2008 01:34:46; Bright; 44.5; 98; 13Zet Oph ; 2.57; 30000;occ; 89; 0;32765
14; 1834.9; 06-JUN-2008 01:36:55; Bright; 38.0; 120; 1Del Oph ; 2.73; 3200;occ; 76; 0;32765
15; 2299.2; 06-JUN-2008 01:44:39; Bright; 40.0; 127; 27Bet Her ; 2.78; 4700;occ; 80; 0;32765
16; 2495.8; 06-JUN-2008 01:47:56; Bright; 40.5; 133; 40Zet Her ; 2.81; 6000;occ; 81; 0;32765
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9; 146.2; 06-JUN-2008 04:29:58; Dark ; 58.5; 63; Bet Gru ; 2.15; 2800;occ; 117; 0;32767
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11; 541.0; 06-JUN-2008 04:36:33; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;32767
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13; 1174.9; 06-JUN-2008 04:47:07; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;32767
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18; 1835.0; 06-JUN-2008 04:58:07; Bright; 37.5; 120; 1Del Oph ; 2.73; 3200;occ; 75; 0;32767
19; 2298.8; 06-JUN-2008 05:05:51; Bright; 41.0; 127; 27Bet Her ; 2.78; 4700;occ; 82; 0;32767
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21; 2930.6; 06-JUN-2008 05:16:23; Bright; 42.5; 130; 23Bet Dra ; 2.80; 5800;occ; 85; 0;32767
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 13; 1175.3; 06-JUN-2008 06:27:43; Dark ; 44.0; 25; 35Lam Sco ; 1.62; 28000;occ; 88; 0;32768  
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 17; 1706.8; 06-JUN-2008 06:36:35; Bright; 39.0; 98; 13Zet Oph ; 2.57; 30000;occ; 78; 0;32768  
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 20; 2494.7; 06-JUN-2008 06:49:43; Bright; 42.0; 133; 40Zet Her ; 2.81; 6000;occ; 84; 0;32768  
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 9; 2486.6; 07-JUN-2008 21:23:21; Bright; 38.5; 133; 40Zet Her ; 2.81; 6000;occ; 77; 0;32791  
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 16; 2917.1; 07-JUN-2008 23:11:07; Bright; 42.5; 130; 23Bet Dra ; 2.80; 5800;occ; 85; 0;32792  
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15; 4602.9; 09-JUN-2008 19:14:47; Dark ; 48.5; 50; 13Alp Ari ; 2.01; 4250;occ; 97; 0;32818  
16; 5372.3; 09-JUN-2008 19:27:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32818  
17; 5486.0; 09-JUN-2008 19:29:30; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;32818  
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19; 6095.2; 09-JUN-2008 19:39:40; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;32818  
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21; 6351.0; 09-JUN-2008 19:43:56; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;32818  
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6; 318.0; 10-JUN-2008 00:45:46; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;32822  
7; 576.9; 10-JUN-2008 00:50:05; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;32822  
8; 1089.3; 10-JUN-2008 00:58:37; Dark ; 43.5; 40; The Sco ; 1.86; 7100;occ; 87; 0;32822  
9; 1193.9; 10-JUN-2008 01:00:22; Dark ; 44.0; 25; 35Lam Sco ; 1.62; 28000;occ; 88; 0;32822  
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11; 1604.7; 10-JUN-2008 01:07:13; Bright; 41.0; 86; 35Eta Oph ; 2.43; 10200;occ; 82; 0;32822  
12; 1710.5; 10-JUN-2008 01:08:59; Bright; 49.5; 98; 13Zet Oph ; 2.57; 30000;occ; 99; 0;32822  
13; 2030.5; 10-JUN-2008 01:14:19; Bright; 47.5; 126; 60Bet Oph ; 2.77; 4250;occ; 95; 0;32822  
14; 2188.4; 10-JUN-2008 01:16:57; Bright; 48.0; 59; 55Alp Oph ; 2.08; 8900;occ; 96; 0;32822  
15; 2286.9; 10-JUN-2008 01:18:35; Bright; 39.0; 127; 27Bet Her ; 2.78; 4700;occ; 78; 0;32822  
16; 2477.2; 10-JUN-2008 01:21:45; Bright; 40.5; 133; 40Zet Her ; 2.81; 6000;occ; 81; 0;32822  
17; 2902.1; 10-JUN-2008 01:28:50; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;32822  
18; 3545.3; 10-JUN-2008 01:39:33; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;32822  
19; 3911.8; 10-JUN-2008 01:45:40; Bright; 58.0; 76; 27Gam Cas ; 2.30; 30000;occ; 116; 0;32822  
20; 4266.3; 10-JUN-2008 01:51:34; Bright; 55.0; 73; 57Gam1And ; 2.26; 13100;occ; 110; 0;32822  
21; 4405.8; 10-JUN-2008 01:53:54; Dark ; 57.0; 53; 43Bet And ; 2.05; 3300;occ; 114; 0;32822  
22; 4603.6; 10-JUN-2008 01:57:12; Dark ; 46.0; 50; 13Alp Ari ; 2.01; 4250;occ; 92; 0;32822

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3; -158.4; 10-JUN-2008 02:18:26; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 0;32822



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5; 198.1; 10-JUN-2008 02:24:22; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;32823
6; 319.0; 10-JUN-2008 02:26:23; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;32823
7; 577.5; 10-JUN-2008 02:30:42; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;32823
8; 1089.7; 10-JUN-2008 02:39:14; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;32823
9; 1194.3; 10-JUN-2008 02:40:58; Dark ; 41.5; 25; 35Lam Sco ; 1.62; 28000;occ; 83; 0;32823
10; 1292.7; 10-JUN-2008 02:42:37; Dark ; 57.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 115; 0;32823
11; 1605.0; 10-JUN-2008 02:47:49; Bright; 41.0; 86; 35Eta Oph ; 2.43; 10200;occ; 82; 0;32823
12; 1710.7; 10-JUN-2008 02:49:35; Bright; 38.5; 98; 13Zet Oph ; 2.57; 30000;occ; 77; 0;32823
13; 2030.4; 10-JUN-2008 02:54:54; Bright; 47.5; 126; 60Bet Oph ; 2.77; 4250;occ; 95; 0;32823
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17; 2901.8; 10-JUN-2008 03:09:26; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;32823
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3;-1769.5; 10-JUN-2008 03:32:10; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;32823
4;-1630.0; 10-JUN-2008 03:34:30; Dark ; 54.0; 53; 43Bet And ; 2.05; 3300;occ; 108; 0;32823
5;-1432.1; 10-JUN-2008 03:37:48; Dark ; 48.0; 50; 13Alp Ari ; 2.01; 4250;occ; 96; 0;32823
6; -659.2; 10-JUN-2008 03:50:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32823
7; -545.9; 10-JUN-2008 03:52:34; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;32823
8; -157.5; 10-JUN-2008 03:59:02; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;32823
9; 67.0; 10-JUN-2008 04:02:47; Dark ; 40.0; 18; 24Alp PsA ; 1.17; 9700;occ; 80; 0;32824
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11; 320.1; 10-JUN-2008 04:07:00; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;32824
12; 578.3; 10-JUN-2008 04:11:18; Dark ; 44.5; 45; Alp Pav ; 1.94; 26000;occ; 89; 0;32824
13; 1090.3; 10-JUN-2008 04:19:50; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;32824
14; 1194.9; 10-JUN-2008 04:21:35; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;32824
15; 1293.2; 10-JUN-2008 04:23:13; Dark ; 62.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 125; 0;32824
16; 1605.2; 10-JUN-2008 04:28:25; Bright; 40.5; 86; 35Eta Oph ; 2.43; 10200;occ; 81; 0;32824
17; 1711.0; 10-JUN-2008 04:30:11; Bright; 37.5; 98; 13Zet Oph ; 2.57; 30000;occ; 75; 0;32824
18; 2030.0; 10-JUN-2008 04:35:30; Bright; 49.0; 126; 60Bet Oph ; 2.77; 4250;occ; 98; 0;32824
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21; 2476.9; 10-JUN-2008 04:42:57; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;32824
22; 2901.4; 10-JUN-2008 04:50:01; Bright; 41.0; 130; 23Bet Dra ; 2.80; 5800;occ; 82; 0;32824
23; 3544.3; 10-JUN-2008 05:00:44; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;32824
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3;-1629.8; 10-JUN-2008 05:15:06; Dark ; 50.0; 53; 43Bet And ; 2.05; 3300;occ; 100; 0;32824
4;-1431.8; 10-JUN-2008 05:18:24; Dark ; 45.0; 50; 13Alp Ari ; 2.01; 4250;occ; 90; 0;32824
5; -658.3; 10-JUN-2008 05:31:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32824
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7; -156.8; 10-JUN-2008 05:39:39; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;32824
8; 68.6; 10-JUN-2008 05:43:25; Dark ; 36.0; 18; 24Alp PsA ; 1.17; 9700;occ; 72; 0;32825
9; 199.9; 10-JUN-2008 05:45:36; Dark ; 59.5; 63; Bet Gru ; 2.15; 2800;occ; 119; 0;32825
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11; 579.0; 10-JUN-2008 05:51:55; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;32825
12; 1090.6; 10-JUN-2008 06:00:27; Dark ; 47.0; 40; The Sco ; 1.86; 7100;occ; 94; 0;32825
13; 1195.1; 10-JUN-2008 06:02:11; Dark ; 40.0; 25; 35Lam Sco ; 1.62; 28000;occ; 80; 0;32825
14; 1293.5; 10-JUN-2008 06:03:49; Dark ; 58.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 116; 0;32825
15; 1605.3; 10-JUN-2008 06:09:01; Bright; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;32825
16; 1711.1; 10-JUN-2008 06:10:47; Bright; 40.5; 98; 13Zet Oph ; 2.57; 30000;occ; 81; 0;32825
17; 2029.7; 10-JUN-2008 06:16:06; Bright; 49.5; 126; 60Bet Oph ; 2.77; 4250;occ; 99; 0;32825
18; 2187.3; 10-JUN-2008 06:18:43; Bright; 47.0; 59; 55Alp Oph ; 2.08; 8900;occ; 94; 0;32825
19; 2286.7; 10-JUN-2008 06:20:23; Bright; 56.0; 127; 27Bet Her ; 2.78; 4700;occ; 112; 0;32825
20; 2476.5; 10-JUN-2008 06:23:33; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;32825
21; 2900.9; 10-JUN-2008 06:30:37; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;32825
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2; 1198.0; 10-JUN-2008 21:07:37; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;32834
3; 1297.5; 10-JUN-2008 21:09:17; Dark ; 56.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 113; 0;32834
4; 1606.2; 10-JUN-2008 21:14:26; Bright; 40.5; 86; 35Eta Oph ; 2.43; 10200;occ; 81; 0;32834
5; 1711.7; 10-JUN-2008 21:16:11; Bright; 37.5; 98; 13Zet Oph ; 2.57; 30000;occ; 75; 0;32834

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 8; 2285.1; 10-JUN-2008 21:25:45; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;32834  
 9; 2474.0; 10-JUN-2008 21:28:53; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;32834  
 10; 2896.6; 10-JUN-2008 21:35:56; Bright; 42.5; 130; 23Bet Dra ; 2.80; 5800;occ; 85; 0;32834  
 11; 3537.4; 10-JUN-2008 21:46:37; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;32834  
 12; 3909.7; 10-JUN-2008 21:52:49; Bright; 55.0; 76; 27Gam Cas ; 2.30; 30000;occ; 110; 0;32834  
 13; 4267.0; 10-JUN-2008 21:58:46; Bright; 41.0; 73; 57Gam1And ; 2.26; 13100;occ; 82; 0;32834  
 14; 4406.8; 10-JUN-2008 22:01:06; Dark ; 53.0; 53; 43Bet And ; 2.05; 3300;occ; 106; 0;32834  
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 5; 330.7; 10-JUN-2008 22:33:46; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;32835  
 6; 421.8; 10-JUN-2008 22:35:17; Dark ; 57.5; 172; Gam Gru ; 3.00; 13100;occ; 115; 0;32835  
 7; 585.2; 10-JUN-2008 22:38:01; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;32835  
 8; 1093.9; 10-JUN-2008 22:46:29; Dark ; 42.5; 40; The Sco ; 1.86; 7100;occ; 85; 0;32835  
 9; 1198.2; 10-JUN-2008 22:48:14; Dark ; 45.5; 25; 35Lam Sco ; 1.62; 28000;occ; 91; 0;32835  
 10; 1298.0; 10-JUN-2008 22:49:53; Dark ; 54.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 109; 0;32835  
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 12; 1711.8; 10-JUN-2008 22:56:47; Bright; 38.0; 98; 13Zet Oph ; 2.57; 30000;occ; 76; 0;32835  
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 19; 3909.6; 10-JUN-2008 23:33:25; Bright; 58.0; 76; 27Gam Cas ; 2.30; 30000;occ; 116; 0;32835  
 20; 4267.0; 10-JUN-2008 23:39:22; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;32835  
 21; 4406.8; 10-JUN-2008 23:41:42; Dark ; 62.0; 53; 43Bet And ; 2.05; 3300;occ; 124; 0;32835  
 22; 4606.4; 10-JUN-2008 23:45:02; Dark ; 49.0; 50; 13Alp Ari ; 2.01; 4250;occ; 98; 0;32835  
 23; 5387.7; 10-JUN-2008 23:58:03; Dark ; 38.0; 0; ; 0.00; 0;occ; 76; 0;32835

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 4; 210.3; 11-JUN-2008 00:12:22; Dark ; 51.0; 63; Bet Gru ; 2.15; 2800;occ; 102; 0;32836  
 5; 331.8; 11-JUN-2008 00:14:23; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;32836  
 6; 423.1; 11-JUN-2008 00:15:54; Dark ; 56.0; 172; Gam Gru ; 3.00; 13100;occ; 112; 0;32836  
 7; 585.8; 11-JUN-2008 00:18:37; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;32836  
 8; 1094.3; 11-JUN-2008 00:27:05; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;32836  
 9; 1198.5; 11-JUN-2008 00:28:50; Dark ; 43.0; 25; 35Lam Sco ; 1.62; 28000;occ; 86; 0;32836  
 10; 1298.3; 11-JUN-2008 00:30:29; Dark ; 73.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 147; 0;32836  
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 12; 1711.9; 11-JUN-2008 00:37:23; Bright; 38.0; 98; 13Zet Oph ; 2.57; 30000;occ; 76; 0;32836  
 13; 2025.8; 11-JUN-2008 00:42:37; Bright; 46.0; 126; 60Bet Oph ; 2.77; 4250;occ; 92; 0;32836  
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 18; 3536.2; 11-JUN-2008 01:07:47; Bright; 46.0; 89; 5Alp Cep ; 2.45; 8000;occ; 92; 0;32836  
 19; 3909.4; 11-JUN-2008 01:14:01; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;32836  
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 21; 4406.9; 11-JUN-2008 01:22:18; Dark ; 54.5; 53; 43Bet And ; 2.05; 3300;occ; 109; 0;32836  
 22; 4606.6; 11-JUN-2008 01:25:38; Dark ; 47.0; 50; 13Alp Ari ; 2.01; 4250;occ; 94; 0;32836

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20080610\_064727\_000038502069\_00206\_32825\_1188.N1

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7; 2283.3; 11-JUN-2008 19:13:30; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;32847  
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9; 4267.4; 11-JUN-2008 08:02:22; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;32840  
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19; 7236.2; 11-JUN-2008 08:51:51; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;32840  
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4; 2179.3; 11-JUN-2008 12:29:22; Bright; 46.0; 59; 55Alp Oph ; 2.08; 8900;occ; 92; 0;32843  
5; 2283.8; 11-JUN-2008 12:31:06; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;32843  
6; 2471.8; 11-JUN-2008 12:34:14; Bright; 38.5; 133; 40Zet Her ; 2.81; 6000;occ; 77; 0;32843

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19; 6626.8; 11-JUN-2008 13:43:29; Dark ; 48.0; 45; Alp Pav ; 1.94; 26000;occ; 96; 0;32843
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9; 347.7; 12-JUN-2008 03:04:14; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;32852
10; 445.1; 12-JUN-2008 03:05:51; Dark ; 57.5; 172; Gam Gru ; 3.00; 13100;occ; 115; 0;32852
11; 596.0; 12-JUN-2008 03:08:22; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;32852
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9; 255.5; 14-JUN-2008 07:01:16; Dark ; 63.5; 63; Bet Gru ; 2.15; 2800;occ; 127; 0;32883
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17; 1611.7; 14-JUN-2008 07:23:52; Bright; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;32883
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9; 3168.7; 14-JUN-2008 07:49:49; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;32883
10; 3446.8; 14-JUN-2008 07:54:27; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;32883
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19; 6292.3; 14-JUN-2008 08:41:52; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;32883
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23; 7146.3; 14-JUN-2008 08:56:06; Dark ; 43.5; 40; The Sco ; 1.86; 7100;occ; 87; 0;32883
24; 7249.4; 14-JUN-2008 08:57:49; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;32883
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26; 7504.6; 14-JUN-2008 09:02:05; Bright; 36.0; 156; 20Sig Sco ; 2.90; 28000;occ; 72; 0;32883
27; 7647.9; 14-JUN-2008 09:04:28; Bright; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;32883
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19; 6652.4; 14-JUN-2008 10:28:28; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;32884  
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5; 2367.1; 14-JUN-2008 10:57:39; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 0;32885  
6; 2462.2; 14-JUN-2008 10:59:14; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;32885  
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13; 4269.4; 14-JUN-2008 11:29:21; Bright; 56.0; 73; 57Gam1And ; 2.26; 13100;occ; 112; 0;32885  
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17; 5609.9; 14-JUN-2008 11:51:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32885  
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21; 6960.2; 14-JUN-2008 12:14:12; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;32885  
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23; 7146.9; 14-JUN-2008 12:17:19; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;32885  
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17; 4903.0; 14-JUN-2008 13:20:31; Dark ; 44.5; 94; 92Alp Cet ; 2.53; 3100;occ; 89; 0;32886  
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 21; 6654.3; 14-JUN-2008 15:30:18; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;32887  
 22; 6960.9; 14-JUN-2008 15:35:25; Dark ; 38.0; 141; Bet Ara ; 2.84; 4600;occ; 76; 0;32887  
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19; 5937.4; 15-JUN-2008 16:27:20; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;32902
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21; 6663.6; 15-JUN-2008 16:39:26; Dark ; 39.0; 45; Alp Pav ; 1.94; 26000;occ; 78; 0;32902
22; 6965.1; 15-JUN-2008 16:44:28; Dark ; 38.0; 141; Bet Ara ; 2.84; 4600;occ; 76; 0;32902
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3;	1472.0;	15-JUN-2008	16:53:31;	Bright;	;	37.0;	156;	20Sig	Sco	;	2.90;	28000;	occ;	74;	0;	32903
4;	1614.2;	15-JUN-2008	16:55:53;	Bright;	;	39.0;	86;	35Eta	Oph	;	2.43;	10200;	occ;	78;	0;	32903
5;	1718.5;	15-JUN-2008	16:57:37;	Bright;	;	36.0;	98;	13Zet	Oph	;	2.57;	30000;	occ;	72;	0;	32903
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7;	2277.0;	15-JUN-2008	17:06:56;	Bright;	;	36.5;	127;	27Bet	Her	;	2.78;	4700;	occ;	73;	0;	32903
8;	2369.0;	15-JUN-2008	17:08:28;	Bright;	;	34.5;	67;	5Alp	CrB	;	2.22;	11000;	occ;	69;	0;	32903
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10;	2867.3;	15-JUN-2008	17:16:46;	Bright;	;	39.0;	130;	23Bet	Dra	;	2.80;	5800;	occ;	78;	0;	32903
11;	2961.4;	15-JUN-2008	17:18:20;	Bright;	;	36.0;	119;	14Eta	Dra	;	2.73;	4700;	occ;	72;	0;	32903
12;	3169.9;	15-JUN-2008	17:21:48;	Bright;	;	37.0;	60;	7Bet	UMi	;	2.08;	3950;	occ;	74;	0;	32903
13;	3446.8;	15-JUN-2008	17:26:25;	Bright;	;	35.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	70;	0;	32903
14;	3896.5;	15-JUN-2008	17:33:55;	Bright;	;	38.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	77;	0;	32903
15;	4062.4;	15-JUN-2008	17:36:41;	Bright;	;	34.0;	160;	23Gam	Per	;	2.93;	4700;	occ;	68;	0;	32903
16;	4270.0;	15-JUN-2008	17:40:09;	Bright;	;	40.5;	73;	57Gam1	And	;	2.26;	13100;	occ;	81;	0;	32903
17;	4405.9;	15-JUN-2008	17:42:25;	Bright;	;	39.5;	173;	4Bet	Tri	;	3.00;	8900;	occ;	79;	0;	32903
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19;	4907.2;	15-JUN-2008	17:50:46;	Dark	;	49.5;	94;	92Alp	Cet	;	2.53;	3100;	occ;	99;	0;	32903
20;	5616.2;	15-JUN-2008	18:02:35;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	32903
21;	5938.2;	15-JUN-2008	18:07:57;	Dark	;	48.0;	84;	Alp	Phe	;	2.40;	4500;	occ;	96;	0;	32903
22;	6311.9;	15-JUN-2008	18:14:10;	Dark	;	51.5;	63;	Bet	Gru	;	2.15;	2800;	occ;	103;	0;	32903
23;	6664.1;	15-JUN-2008	18:20:03;	Dark	;	42.0;	45;	Alp	Pav	;	1.94;	26000;	occ;	84;	0;	32903
24;	6965.3;	15-JUN-2008	18:25:04;	Dark	;	39.0;	141;	Bet	Ara	;	2.84;	4600;	occ;	78;	0;	32903
25;	7047.3;	15-JUN-2008	18:26:26;	Dark	;	37.5;	147;	Alp	Ara	;	2.88;	26000;	occ;	75;	0;	32903
26;	7152.7;	15-JUN-2008	18:28:11;	Dark	;	7.0;	40;	The	Sco	;	1.86;	7100;	occ;	14;	0;	32903
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22; 4270.2; 16-JUN-2008 22:10:20; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;32920
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14; 4909.5; 16-JUN-2008 10:36:47; Dark ; 42.5; 94; 92Alp Cet ; 2.53; 3100;occ; 85; 0;32913
15; 5619.7; 16-JUN-2008 10:48:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32913
16; 5985.2; 16-JUN-2008 10:54:43; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;32913
17; 6321.6; 16-JUN-2008 11:00:20; Dark ; 49.5; 63; Bet Gru ; 2.15; 2800;occ; 99; 0;32913
18; 6669.9; 16-JUN-2008 11:06:08; Dark ; 45.0; 45; Alp Pav ; 1.94; 26000;occ; 90; 0;32913
19; 6967.7; 16-JUN-2008 11:11:06; Dark ; 39.5; 141; Bet Ara ; 2.84; 4600;occ; 79; 0;32913
20; 7050.0; 16-JUN-2008 11:12:28; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;32913
21; 7155.4; 16-JUN-2008 11:14:13; Dark ; 47.0; 40; The Sco ; 1.86; 7100;occ; 94; 0;32913
22; 7258.0; 16-JUN-2008 11:15:56; Dark ; 44.5; 25; 35Lam Sco ; 1.62; 28000;occ; 89; 0;32913
23; 7344.0; 16-JUN-2008 11:17:22; Dark ; 41.5; 75; 26Eps Sco ; 2.29; 4250;occ; 83; 0;32913
24; 7509.9; 16-JUN-2008 11:20:08; Bright; 35.5; 156; 20Sig Sco ; 2.90; 28000;occ; 71; 0;32913
25; 7651.4; 16-JUN-2008 11:22:29; Bright; 38.5; 86; 35Eta Oph ; 2.43; 10200;occ; 77; 0;32913
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 2; 1719.5; 16-JUN-2008 11:24:13; Bright; 36.5; 98; 13Zet Oph ; 2.57; 30000;occ; 73; 0;32914
 3; 1845.4; 16-JUN-2008 11:26:19; Bright; 35.5; 120; 1DeI Oph ; 2.73; 3200;occ; 71; 0;32914
 4; 2276.1; 16-JUN-2008 11:33:30; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;32914
 5; 2370.3; 16-JUN-2008 11:35:04; Bright; 34.5; 67; 5Alp CrB ; 2.22; 11000;occ; 69; 0;32914
 6; 2456.9; 16-JUN-2008 11:36:31; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;32914
 7; 2862.9; 16-JUN-2008 11:43:17; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;32914
 8; 2960.0; 16-JUN-2008 11:44:54; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;32914
 9; 3170.3; 16-JUN-2008 11:48:24; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;32914
10; 3446.6; 16-JUN-2008 11:53:00; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;32914
11; 3893.7; 16-JUN-2008 12:00:28; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;32914
12; 4062.8; 16-JUN-2008 12:03:17; Bright; 39.5; 160; 23Gam Per ; 2.93; 4700;occ; 79; 0;32914
13; 4270.1; 16-JUN-2008 12:06:44; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;32914
14; 4406.7; 16-JUN-2008 12:09:01; Dark ; 41.5; 173; 4Bet Tri ; 3.00; 8900;occ; 83; 0;32914
15; 4623.7; 16-JUN-2008 12:12:38; Dark ; 45.5; 50; 13Alp Ari ; 2.01; 4250;occ; 91; 0;32914
16; 4909.8; 16-JUN-2008 12:17:24; Dark ; 44.5; 94; 92Alp Cet ; 2.53; 3100;occ; 89; 0;32914
17; 5620.0; 16-JUN-2008 12:29:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32914
18; 5985.6; 16-JUN-2008 12:35:19; Dark ; 38.0; 9; Alp Eri ; 0.45; 24000;occ; 76; 0;32914
19; 6322.5; 16-JUN-2008 12:40:56; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;32914
20; 6670.5; 16-JUN-2008 12:46:44; Dark ; 46.5; 45; Alp Pav ; 1.94; 26000;occ; 93; 0;32914
21; 6968.0; 16-JUN-2008 12:51:42; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;32914
22; 7050.5; 16-JUN-2008 12:53:04; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;32914
23; 7155.7; 16-JUN-2008 12:54:50; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;32914
24; 7258.3; 16-JUN-2008 12:56:32; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;32914
25; 7344.3; 16-JUN-2008 12:57:58; Dark ; 39.0; 75; 26Eps Sco ; 2.29; 4250;occ; 78; 0;32914
26; 7509.9; 16-JUN-2008 13:00:44; Bright; 35.5; 156; 20Sig Sco ; 2.90; 28000;occ; 71; 0;32914
27; 7651.3; 16-JUN-2008 13:03:05; Bright; 37.5; 86; 35Eta Oph ; 2.43; 10200;occ; 75; 0;32914
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 2; 1719.5; 16-JUN-2008 13:04:49; Bright; 37.0; 98; 13Zet Oph ; 2.57; 30000;occ; 74; 0;32915
 3; 1845.5; 16-JUN-2008 13:06:55; Bright; 35.5; 120; 1DeI Oph ; 2.73; 3200;occ; 71; 0;32915
 4; 2276.0; 16-JUN-2008 13:14:06; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;32915
 5; 2370.4; 16-JUN-2008 13:15:40; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;32915
 6; 2456.8; 16-JUN-2008 13:17:07; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;32915
 7; 2862.6; 16-JUN-2008 13:23:52; Bright; 42.0; 130; 23Bet Dra ; 2.80; 5800;occ; 84; 0;32915
 8; 2959.8; 16-JUN-2008 13:25:30; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;32915

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9; 3170.4; 16-JUN-2008 13:29:00; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;32915
10; 3446.6; 16-JUN-2008 13:33:36; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;32915
11; 3893.7; 16-JUN-2008 13:41:03; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;32915
12; 4062.9; 16-JUN-2008 13:43:53; Bright; 53.0; 160; 23Gam Per ; 2.93; 4700;occ; 106; 0;32915
13; 4270.1; 16-JUN-2008 13:47:20; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;32915
14; 4406.9; 16-JUN-2008 13:49:37; Dark ; 57.0; 173; 4Bet Tri ; 3.00; 8900;occ; 114; 0;32915
15; 4624.1; 16-JUN-2008 13:53:14; Dark ; 48.5; 50; 13Alp Ari ; 2.01; 4250;occ; 97; 0;32915
16; 4910.1; 16-JUN-2008 13:58:00; Dark ; 48.0; 94; 92Alp Cet ; 2.53; 3100;occ; 96; 0;32915
17; 5620.4; 16-JUN-2008 14:09:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32915
18; 5986.1; 16-JUN-2008 14:15:56; Dark ; 38.0; 9; Alp Eri ; 0.45; 24000;occ; 76; 0;32915
19; 6323.5; 16-JUN-2008 14:21:33; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;32915
20; 6671.2; 16-JUN-2008 14:27:21; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;32915
21; 6968.3; 16-JUN-2008 14:32:18; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;32915
22; 7050.8; 16-JUN-2008 14:33:40; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;32915
23; 7156.0; 16-JUN-2008 14:35:26; Dark ; 42.5; 40; The Sco ; 1.86; 7100;occ; 85; 0;32915
24; 7258.7; 16-JUN-2008 14:37:08; Dark ; 41.5; 25; 35Lam Sco ; 1.62; 28000;occ; 83; 0;32915
25; 7344.6; 16-JUN-2008 14:38:34; Dark ; 42.0; 75; 26Eps Sco ; 2.29; 4250;occ; 84; 0;32915
26; 7510.2; 16-JUN-2008 14:41:20; Bright; 15.5; 156; 20Sig Sco ; 2.90; 28000;occ; 31; 0;32915
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2; 1615.7; 16-JUN-2008 14:43:41; Bright; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;32916
3; 1719.7; 16-JUN-2008 14:45:25; Bright; 36.5; 98; 13Zet Oph ; 2.57; 30000;occ; 73; 0;32916
4; 1845.7; 16-JUN-2008 14:47:31; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;32916
5; 2275.9; 16-JUN-2008 14:54:42; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;32916
6; 2370.5; 16-JUN-2008 14:56:16; Bright; 36.5; 67; 5Alp CrB ; 2.22; 11000;occ; 73; 0;32916
7; 2456.8; 16-JUN-2008 14:57:42; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;32916
8; 2862.2; 16-JUN-2008 15:04:28; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;32916
9; 2959.8; 16-JUN-2008 15:06:05; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;32916
10; 3170.6; 16-JUN-2008 15:09:36; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;32916
11; 3446.7; 16-JUN-2008 15:14:12; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;32916
12; 3893.5; 16-JUN-2008 15:21:39; Bright; 60.0; 76; 27Gam Cas ; 2.30; 30000;occ; 120; 0;32916
13; 4063.0; 16-JUN-2008 15:24:29; Bright; 33.0; 160; 23Gam Per ; 2.93; 4700;occ; 66; 0;32916
14; 4270.3; 16-JUN-2008 15:27:56; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;32916
15; 4407.2; 16-JUN-2008 15:30:13; Dark ; 41.0; 173; 4Bet Tri ; 3.00; 8900;occ; 82; 0;32916
16; 4624.3; 16-JUN-2008 15:33:50; Dark ; 50.5; 50; 13Alp Ari ; 2.01; 4250;occ; 101; 0;32916
17; 4910.4; 16-JUN-2008 15:38:36; Dark ; 44.0; 94; 92Alp Cet ; 2.53; 3100;occ; 88; 0;32916
18; 5620.8; 16-JUN-2008 15:50:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32916
19; 5986.6; 16-JUN-2008 15:56:32; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;32916
20; 6324.6; 16-JUN-2008 16:02:10; Dark ; 54.5; 63; Bet Gru ; 2.15; 2800;occ; 109; 0;32916
21; 6671.8; 16-JUN-2008 16:07:57; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;32916
22; 6968.6; 16-JUN-2008 16:12:54; Dark ; 37.5; 141; Bet Ara ; 2.84; 4600;occ; 75; 0;32916
23; 7051.1; 16-JUN-2008 16:14:17; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;32916
24; 7156.4; 16-JUN-2008 16:16:02; Dark ; 40.0; 40; The Sco ; 1.86; 7100;occ; 80; 0;32916
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2; 1308.9; 16-JUN-2008 16:19:11; Dark ; 46.0; 75; 26Eps Sco ; 2.29; 4250;occ; 92; 0;32917
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6; 1845.8; 16-JUN-2008 16:28:07; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;32917
7; 2275.9; 16-JUN-2008 16:35:17; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;32917
8; 2370.6; 16-JUN-2008 16:36:52; Bright; 36.5; 67; 5Alp CrB ; 2.22; 11000;occ; 73; 0;32917
9; 2456.6; 16-JUN-2008 16:38:18; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;32917
10; 2861.9; 16-JUN-2008 16:45:03; Bright; 41.0; 130; 23Bet Dra ; 2.80; 5800;occ; 82; 0;32917
11; 2959.7; 16-JUN-2008 16:46:41; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;32917
12; 3170.6; 16-JUN-2008 16:50:12; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;32917
13; 3446.6; 16-JUN-2008 16:54:48; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;32917
14; 3893.3; 16-JUN-2008 17:02:15; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;32917
15; 4063.1; 16-JUN-2008 17:05:05; Bright; 32.5; 160; 23Gam Per ; 2.93; 4700;occ; 65; 0;32917
16; 4270.3; 16-JUN-2008 17:08:32; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;32917
17; 4407.2; 16-JUN-2008 17:10:49; Dark ; 42.5; 173; 4Bet Tri ; 3.00; 8900;occ; 85; 0;32917
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21; 5986.9; 16-JUN-2008 17:37:08; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;32917
22; 6325.6; 16-JUN-2008 17:42:47; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;32917
23; 6672.5; 16-JUN-2008 17:48:34; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;32917

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24; 6968.9; 16-JUN-2008 17:53:31; Dark ; 44.5; 141; Bet Ara ; 2.84; 4600;occ; 89; 0;32917
25; 7051.4; 16-JUN-2008 17:54:53; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;32917
26; 7156.8; 16-JUN-2008 17:56:38; Dark ; 11.5; 40; The Sco ; 1.86; 7100;occ; 23; 0;32917
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2; 1120.7; 16-JUN-2008 17:56:38; Dark ; 38.0; 40; The Sco ; 1.86; 7100;occ; 76; 0;32918
3; 1223.3; 16-JUN-2008 17:58:21; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;32918
4; 1309.1; 16-JUN-2008 17:59:47; Dark ; 41.5; 75; 26Eps Sco ; 2.29; 4250;occ; 83; 0;32918
5; 1474.8; 16-JUN-2008 18:02:32; Bright; 36.5; 156; 20Sig Sco ; 2.90; 28000;occ; 73; 0;32918
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13; 2959.5; 16-JUN-2008 18:27:17; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;32918
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17; 4063.1; 16-JUN-2008 18:45:41; Bright; 53.0; 160; 23Gam Per ; 2.93; 4700;occ; 106; 0;32918
18; 4270.2; 16-JUN-2008 18:49:08; Bright; 41.0; 73; 57Gam1And ; 2.26; 13100;occ; 82; 0;32918
19; 4407.2; 16-JUN-2008 18:51:25; Dark ; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;32918
20; 4624.7; 16-JUN-2008 18:55:02; Dark ; 50.5; 50; 13Alp Ari ; 2.01; 4250;occ; 101; 0;32918
21; 4910.9; 16-JUN-2008 18:59:48; Dark ; 45.0; 94; 92Alp Cet ; 2.53; 3100;occ; 90; 0;32918
22; 5621.6; 16-JUN-2008 19:11:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32918
23; 5987.2; 16-JUN-2008 19:17:45; Dark ; 49.5; 9; Alp Eri ; 0.45; 24000;occ; 99; 0;32918
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25; 6672.9; 16-JUN-2008 19:29:11; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;32918
26; 6969.1; 16-JUN-2008 19:34:07; Dark ; 37.5; 141; Bet Ara ; 2.84; 4600;occ; 75; 0;32918
27; 7051.8; 16-JUN-2008 19:35:29; Dark ; 23.5; 147; Alp Ara ; 2.88; 26000;occ; 47; 0;32918
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20080617_001328_000053742069_00302_32921_5929.N1
1; -413.3; 17-JUN-2008 00:13:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32921
2; -48.0; 17-JUN-2008 00:19:33; Dark ; 47.5; 9; Alp Eri ; 0.45; 24000;occ; 95; 0;32921
3; 293.4; 17-JUN-2008 00:25:15; Dark ; 64.0; 63; Bet Gru ; 2.15; 2800;occ; 128; 0;32922
4; 638.8; 17-JUN-2008 00:31:00; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;32922
5; 933.8; 17-JUN-2008 00:35:55; Dark ; 37.0; 141; Bet Ara ; 2.84; 4600;occ; 74; 0;32922
6; 1016.4; 17-JUN-2008 00:37:18; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;32922
7; 1121.7; 17-JUN-2008 00:39:03; Dark ; 43.5; 40; The Sco ; 1.86; 7100;occ; 87; 0;32922
8; 1224.3; 17-JUN-2008 00:40:46; Dark ; 41.5; 25; 35Lam Sco ; 1.62; 28000;occ; 83; 0;32922
9; 1309.8; 17-JUN-2008 00:42:11; Dark ; 42.0; 75; 26Eps Sco ; 2.29; 4250;occ; 84; 0;32922
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11; 1720.4; 17-JUN-2008 00:49:02; Bright; 37.0; 98; 13Zet Oph ; 2.57; 30000;occ; 74; 0;32922
12; 1846.2; 17-JUN-2008 00:51:07; Bright; 35.5; 120; 1Del Oph ; 2.73; 3200;occ; 71; 0;32922
13; 2275.5; 17-JUN-2008 00:58:17; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;32922
14; 2371.2; 17-JUN-2008 00:59:52; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;32922
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16; 2859.9; 17-JUN-2008 01:08:01; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;32922
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9; 297.5; 17-JUN-2008 07:07:43; Dark ; 61.5; 63; Bet Gru ; 2.15; 2800;occ; 123; 0;32926
10; 641.2; 17-JUN-2008 07:13:26; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;32926
11; 935.0; 17-JUN-2008 07:18:20; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;32926
12; 1017.8; 17-JUN-2008 07:19:43; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;32926
13; 1123.2; 17-JUN-2008 07:21:28; Dark ; 44.0; 40; The Sco ; 1.86; 7100;occ; 88; 0;32926
14; 1225.5; 17-JUN-2008 07:23:11; Dark ; 44.5; 25; 35Lam Sco ; 1.62; 28000;occ; 89; 0;32926
15; 1310.7; 17-JUN-2008 07:24:36; Dark ; 42.0; 75; 26Eps Sco ; 2.29; 4250;occ; 84; 0;32926
16; 1616.9; 17-JUN-2008 07:29:42; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;32926
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2; 1846.9; 17-JUN-2008 07:33:32; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;32926
3; 2275.5; 17-JUN-2008 07:40:41; Bright; 47.0; 127; 27Bet Her ; 2.78; 4700;occ; 94; 0;32926
4; 2455.2; 17-JUN-2008 07:43:40; Bright; 54.0; 133; 40Zet Her ; 2.81; 6000;occ; 108; 0;32926
5; 2858.7; 17-JUN-2008 07:50:24; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;32926
6; 2958.8; 17-JUN-2008 07:52:04; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;32926
7; 3171.3; 17-JUN-2008 07:55:36; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;32926
8; 3446.6; 17-JUN-2008 08:00:12; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;32926
9; 3891.2; 17-JUN-2008 08:07:36; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;32926
10; 4063.5; 17-JUN-2008 08:10:29; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;32926
11; 4270.5; 17-JUN-2008 08:13:56; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;32926
12; 4408.1; 17-JUN-2008 08:16:13; Dark ; 42.5; 173; 4Bet Tri ; 3.00; 8900;occ; 85; 0;32926
13; 4626.6; 17-JUN-2008 08:19:52; Dark ; 48.0; 50; 13Alp Ari ; 2.01; 4250;occ; 96; 0;32926
14; 4913.0; 17-JUN-2008 08:24:38; Dark ; 37.5; 94; 92Alp Cet ; 2.53; 3100;occ; 75; 0;32926
15; 5624.5; 17-JUN-2008 08:36:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32926
16; 6334.3; 17-JUN-2008 08:48:19; Dark ; 63.0; 63; Bet Gru ; 2.15; 2800;occ; 126; 0;32926
17; 6677.8; 17-JUN-2008 08:54:03; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;32926
18; 6975.4; 17-JUN-2008 08:59:00; Dark ; 36.0; 141; Bet Ara ; 2.84; 4600;occ; 72; 0;32926
19; 7054.0; 17-JUN-2008 09:00:19; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;32926
20; 7159.4; 17-JUN-2008 09:02:04; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;32926
21; 7261.8; 17-JUN-2008 09:03:47; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;32926
22; 7346.9; 17-JUN-2008 09:05:12; Dark ; 50.5; 75; 26Eps Sco ; 2.29; 4250;occ; 101; 0;32926
23; 7653.0; 17-JUN-2008 09:10:18; Bright; 37.5; 86; 35Eta Oph ; 2.43; 10200;occ; 75; 0;32926
24; 7756.9; 17-JUN-2008 09:12:02; Bright; 48.5; 98; 13Zet Oph ; 2.57; 30000;occ; 97; 0;32926
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2; 1847.0; 17-JUN-2008 09:14:08; Bright; 35.5; 120; 1Del Oph ; 2.73; 3200;occ; 71; 0;32927
3; 2275.4; 17-JUN-2008 09:21:16; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;32927
4; 2455.1; 17-JUN-2008 09:24:16; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;32927
5; 2858.3; 17-JUN-2008 09:30:59; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;32927
6; 2958.6; 17-JUN-2008 09:32:40; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;32927
7; 3171.3; 17-JUN-2008 09:36:12; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;32927
8; 3446.5; 17-JUN-2008 09:40:48; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;32927
9; 3890.9; 17-JUN-2008 09:48:12; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;32927
10; 4063.4; 17-JUN-2008 09:51:04; Bright; 33.5; 160; 23Gam Per ; 2.93; 4700;occ; 67; 0;32927
11; 4270.5; 17-JUN-2008 09:54:32; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;32927
12; 4408.3; 17-JUN-2008 09:56:49; Dark ; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;32927
13; 4626.8; 17-JUN-2008 10:00:28; Dark ; 48.0; 50; 13Alp Ari ; 2.01; 4250;occ; 96; 0;32927
14; 4913.2; 17-JUN-2008 10:05:14; Dark ; 44.5; 94; 92Alp Cet ; 2.53; 3100;occ; 89; 0;32927
15; 5624.9; 17-JUN-2008 10:17:06; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;32927
16; 6335.3; 17-JUN-2008 10:28:56; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;32927
17; 6678.2; 17-JUN-2008 10:34:39; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;32927
18; 7054.1; 17-JUN-2008 10:40:55; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;32927
19; 7159.6; 17-JUN-2008 10:42:41; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;32927
20; 7262.0; 17-JUN-2008 10:44:23; Dark ; 42.5; 25; 35Lam Sco ; 1.62; 28000;occ; 85; 0;32927
21; 7347.2; 17-JUN-2008 10:45:48; Dark ; 53.0; 75; 26Eps Sco ; 2.29; 4250;occ; 106; 0;32927
22; 7492.9; 17-JUN-2008 10:48:14; Bright; 41.0; 16; 21Alp Sco ; 1.02; 3000;occ; 82; 0;32927
23; 7653.1; 17-JUN-2008 10:50:54; Bright; 38.5; 86; 35Eta Oph ; 2.43; 10200;occ; 77; 0;32927
24; 7757.1; 17-JUN-2008 10:52:38; Bright; 20.5; 98; 13Zet Oph ; 2.57; 30000;occ; 41; 0;32927
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2; 1847.1; 17-JUN-2008 10:54:44; Bright; 35.0; 120; 1Del Oph ; 2.73; 3200;occ; 70; 0;32928
3; 2275.3; 17-JUN-2008 11:01:52; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;32928

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4; 2454.9; 17-JUN-2008 11:04:52; Bright; 38.0; 133; 40Zet Her ; 2.81; 6000;occ; 76; 0;32928
5; 2857.8; 17-JUN-2008 11:11:35; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;32928
6; 2958.6; 17-JUN-2008 11:13:15; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;32928
7; 3171.3; 17-JUN-2008 11:16:48; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;32928
8; 3446.6; 17-JUN-2008 11:21:23; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;32928
9; 3890.6; 17-JUN-2008 11:28:48; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;32928
10; 4063.4; 17-JUN-2008 11:31:40; Bright; 53.0; 160; 23Gam Per ; 2.93; 4700;occ; 106; 0;32928
11; 4270.5; 17-JUN-2008 11:35:07; Bright; 41.0; 73; 57Gam1And ; 2.26; 13100;occ; 82; 0;32928
12; 4408.3; 17-JUN-2008 11:37:25; Dark ; 40.5; 173; 4Bet Tri ; 3.00; 8900;occ; 81; 0;32928
13; 4626.9; 17-JUN-2008 11:41:04; Dark ; 46.5; 50; 13Alp Ari ; 2.01; 4250;occ; 93; 0;32928
14; 4913.4; 17-JUN-2008 11:45:50; Dark ; 46.0; 94; 92Alp Cet ; 2.53; 3100;occ; 92; 0;32928
15; 5625.2; 17-JUN-2008 11:57:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32928
16; 5958.4; 17-JUN-2008 12:03:15; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;32928
17; 6336.3; 17-JUN-2008 12:09:33; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;32928
18; 6678.8; 17-JUN-2008 12:15:16; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;32928
19; 7054.5; 17-JUN-2008 12:21:31; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;32928
20; 7159.9; 17-JUN-2008 12:23:17; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;32928
21; 7262.2; 17-JUN-2008 12:24:59; Dark ; 42.0; 25; 35Lam Sco ; 1.62; 28000;occ; 84; 0;32928
22; 7347.3; 17-JUN-2008 12:26:24; Dark ; 45.5; 75; 26Eps Sco ; 2.29; 4250;occ; 91; 0;32928
23; 7493.0; 17-JUN-2008 12:28:50; Bright; 41.0; 16; 21Alp Sco ; 1.02; 3000;occ; 82; 0;32928
24; 7653.2; 17-JUN-2008 12:31:30; Bright; 37.5; 86; 35Eta Oph ; 2.43; 10200;occ; 75; 0;32928
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2; 1721.2; 17-JUN-2008 12:33:14; Bright; 36.5; 98; 13Zet Oph ; 2.57; 30000;occ; 73; 0;32929
3; 1847.3; 17-JUN-2008 12:35:20; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;32929
4; 2275.3; 17-JUN-2008 12:42:28; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;32929
5; 2454.9; 17-JUN-2008 12:45:28; Bright; 38.0; 133; 40Zet Her ; 2.81; 6000;occ; 76; 0;32929
6; 2857.5; 17-JUN-2008 12:52:10; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;32929
7; 2958.5; 17-JUN-2008 12:53:51; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;32929
8; 3171.5; 17-JUN-2008 12:57:24; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;32929
9; 3446.6; 17-JUN-2008 13:01:59; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;32929
10; 3890.6; 17-JUN-2008 13:09:23; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;32929
11; 4063.5; 17-JUN-2008 13:12:16; Bright; 35.0; 160; 23Gam Per ; 2.93; 4700;occ; 70; 0;32929
12; 4270.6; 17-JUN-2008 13:15:43; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;32929
13; 4408.5; 17-JUN-2008 13:18:01; Dark ; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;32929
14; 4627.3; 17-JUN-2008 13:21:40; Dark ; 49.5; 50; 13Alp Ari ; 2.01; 4250;occ; 99; 0;32929
15; 4913.7; 17-JUN-2008 13:26:26; Dark ; 44.5; 94; 92Alp Cet ; 2.53; 3100;occ; 89; 0;32929
16; 5625.6; 17-JUN-2008 13:38:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32929
17; 5959.2; 17-JUN-2008 13:43:52; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;32929
18; 6337.3; 17-JUN-2008 13:50:10; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;32929
19; 6679.5; 17-JUN-2008 13:55:52; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;32929
20; 7055.0; 17-JUN-2008 14:02:08; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;32929
21; 7160.4; 17-JUN-2008 14:03:53; Dark ; 39.5; 40; The Sco ; 1.86; 7100;occ; 79; 0;32929
22; 7262.5; 17-JUN-2008 14:05:35; Dark ; 42.0; 25; 35Lam Sco ; 1.62; 28000;occ; 84; 0;32929
23; 7347.5; 17-JUN-2008 14:07:00; Dark ; 39.0; 75; 26Eps Sco ; 2.29; 4250;occ; 78; 0;32929
24; 7459.4; 17-JUN-2008 14:08:52; Bright; 34.5; 136; 23Tau Sco ; 2.82; 30000;occ; 69; 0;32929
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2; 1721.4; 17-JUN-2008 14:13:50; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;32930
3; 1847.4; 17-JUN-2008 14:15:56; Bright; 35.5; 120; 1Del Oph ; 2.73; 3200;occ; 71; 0;32930
4; 2275.3; 17-JUN-2008 14:23:04; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;32930
5; 2454.8; 17-JUN-2008 14:26:03; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;32930
6; 2857.2; 17-JUN-2008 14:32:46; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;32930
7; 2958.5; 17-JUN-2008 14:34:27; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;32930
8; 3171.6; 17-JUN-2008 14:38:00; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;32930
9; 3446.7; 17-JUN-2008 14:42:35; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;32930
10; 3890.4; 17-JUN-2008 14:49:59; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;32930
11; 4063.8; 17-JUN-2008 14:52:52; Bright; 53.0; 160; 23Gam Per ; 2.93; 4700;occ; 106; 0;32930
12; 4270.6; 17-JUN-2008 14:56:19; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;32930
13; 4408.7; 17-JUN-2008 14:58:37; Dark ; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;32930
14; 4627.6; 17-JUN-2008 15:02:16; Dark ; 50.0; 50; 13Alp Ari ; 2.01; 4250;occ; 100; 0;32930
15; 4914.2; 17-JUN-2008 15:07:03; Dark ; 45.5; 94; 92Alp Cet ; 2.53; 3100;occ; 91; 0;32930
16; 5626.0; 17-JUN-2008 15:18:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32930
17; 5991.5; 17-JUN-2008 15:25:00; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;32930
18; 6338.3; 17-JUN-2008 15:30:47; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;32930
19; 6680.1; 17-JUN-2008 15:36:29; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;32930
20; 7055.2; 17-JUN-2008 15:42:44; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;32930
21; 7160.6; 17-JUN-2008 15:44:29; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;32930

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22; 7262.9; 17-JUN-2008 15:46:12; Dark ; 41.5; 25; 35Lam Sco ; 1.62; 28000;occ; 83; 0;32930
23; 7347.8; 17-JUN-2008 15:47:36; Dark ; 28.0; 75; 26Eps Sco ; 2.29; 4250;occ; 56; 0;32930
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2; 1423.6; 17-JUN-2008 15:49:28; Bright; 37.0; 136; 23Tau Sco ; 2.82; 30000;occ; 74; 0;32931
3; 1617.7; 17-JUN-2008 15:52:42; Bright; 38.0; 86; 35Eta Oph ; 2.43; 10200;occ; 76; 0;32931
4; 1721.4; 17-JUN-2008 15:54:26; Bright; 37.0; 98; 13Zet Oph ; 2.57; 30000;occ; 74; 0;32931
5; 1847.3; 17-JUN-2008 15:56:32; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;32931
6; 2275.2; 17-JUN-2008 16:03:40; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;32931
7; 2454.6; 17-JUN-2008 16:06:39; Bright; 38.5; 133; 40Zet Her ; 2.81; 6000;occ; 77; 0;32931
8; 2856.9; 17-JUN-2008 16:13:22; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;32931
9; 2958.4; 17-JUN-2008 16:15:03; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;32931
10; 3171.6; 17-JUN-2008 16:18:36; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;32931
11; 3446.6; 17-JUN-2008 16:23:11; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;32931
12; 3890.2; 17-JUN-2008 16:30:35; Bright; 44.5; 76; 27Gam Cas ; 2.30; 30000;occ; 89; 0;32931
13; 4063.8; 17-JUN-2008 16:33:28; Bright; 33.0; 160; 23Gam Per ; 2.93; 4700;occ; 66; 0;32931
14; 4270.6; 17-JUN-2008 16:36:55; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;32931
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16; 4627.9; 17-JUN-2008 16:42:52; Dark ; 46.5; 50; 13Alp Ari ; 2.01; 4250;occ; 93; 0;32931
17; 4914.4; 17-JUN-2008 16:47:39; Dark ; 48.0; 94; 92Alp Cet ; 2.53; 3100;occ; 96; 0;32931
18; 5626.5; 17-JUN-2008 16:59:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32931
19; 5991.9; 17-JUN-2008 17:05:36; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;32931
20; 6339.4; 17-JUN-2008 17:11:24; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;32931
21; 6680.8; 17-JUN-2008 17:17:05; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;32931
22; 7055.4; 17-JUN-2008 17:23:20; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;32931
23; 7160.9; 17-JUN-2008 17:25:06; Dark ; 39.0; 40; The Sco ; 1.86; 7100;occ; 78; 0;32931
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2; 1227.3; 17-JUN-2008 17:26:48; Dark ; 42.0; 25; 35Lam Sco ; 1.62; 28000;occ; 84; 0;32932
3; 1312.0; 17-JUN-2008 17:28:13; Dark ; 41.0; 75; 26Eps Sco ; 2.29; 4250;occ; 82; 0;32932
4; 1457.7; 17-JUN-2008 17:30:38; Bright; 42.0; 16; 21Alp Sco ; 1.02; 3000;occ; 84; 0;32932
5; 1617.8; 17-JUN-2008 17:33:18; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;32932
6; 1721.4; 17-JUN-2008 17:35:02; Bright; 35.5; 98; 13Zet Oph ; 2.57; 30000;occ; 71; 0;32932
7; 1847.5; 17-JUN-2008 17:37:08; Bright; 35.5; 120; 1Del Oph ; 2.73; 3200;occ; 71; 0;32932
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15; 4631.0; 18-JUN-2008 14:30:43; Dark ; 50.0; 50; 13Alp Ari ; 2.01; 4250;occ; 100; 0;32944
16; 4917.9; 18-JUN-2008 14:35:30; Dark ; 44.0; 94; 92Alp Cet ; 2.53; 3100;occ; 88; 0;32944
17; 5631.4; 18-JUN-2008 14:47:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32944
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22; 7164.7; 18-JUN-2008 15:12:56; Dark ; 39.0; 40; The Sco ; 1.86; 7100;occ; 78; 0;32944
23; 7266.7; 18-JUN-2008 15:14:38; Dark ; 44.0; 25; 35Lam Sco ; 1.62; 28000;occ; 88; 0;32944
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13; 4064.2; 18-JUN-2008 16:01:52; Bright; 33.0; 160; 23Gam Per ; 2.93; 4700;occ; 66; 0;32945
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 9; 2452.6; 18-JUN-2008 17:15:36; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;32946

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12; 3172.8; 18-JUN-2008 17:27:36; Bright; 33.5; 60; 7Bet UMi ; 2.08; 3950;occ; 67; 0;32946
13; 3446.6; 18-JUN-2008 17:32:10; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;32946
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6; 1619.6; 18-JUN-2008 18:42:19; Bright; 38.5; 86; 35Eta Oph ; 2.43; 10200;occ; 77; 0;32947
7; 1723.3; 18-JUN-2008 18:44:03; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;32947
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12; 2851.3; 18-JUN-2008 19:02:51; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;32947
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3; 656.0; 19-JUN-2008 01:08:39; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;32951
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6; 1232.3; 19-JUN-2008 01:18:16; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;32951
7; 1315.9; 19-JUN-2008 01:19:39; Dark ; 47.0; 75; 26Eps Sco ; 2.29; 4250;occ; 94; 0;32951
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12; 1997.4; 19-JUN-2008 01:31:01; Bright; 34.0; 126; 60Bet Oph ; 2.77; 4250;occ; 68; 0;32951
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 19; 6014.0; 21-JUN-2008 16:40:07; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;32988  
 20; 6395.7; 21-JUN-2008 16:46:28; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;32988  
 21; 6713.7; 21-JUN-2008 16:51:46; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;32988  
 22; 7070.5; 21-JUN-2008 16:57:43; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;32988  
 23; 7176.8; 21-JUN-2008 16:59:29; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;32988  
 24; 7278.3; 21-JUN-2008 17:01:11; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;32988

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1; 1246.2; 21-JUN-2008 17:01:15; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 8;32989  
 2; 1322.6; 21-JUN-2008 17:02:31; Dark ; 45.5; 116; 19Del Sgr ; 2.70; 4100;occ; 91; 0;32989  
 3; 1625.0; 21-JUN-2008 17:07:34; Bright; 38.0; 86; 35Eta Oph ; 2.43; 10200;occ; 76; 0;32989  
 4; 1728.6; 21-JUN-2008 17:09:17; Bright; 35.5; 98; 13Zet Oph ; 2.57; 30000;occ; 71; 0;32989  
 5; 1991.7; 21-JUN-2008 17:13:40; Bright; 59.0; 126; 60Bet Oph ; 2.77; 4250;occ; 118; 0;32989  
 6; 2136.9; 21-JUN-2008 17:16:05; Bright; 41.5; 59; 55Alp Oph ; 2.08; 8900;occ; 83; 0;32989  
 7; 2274.3; 21-JUN-2008 17:18:23; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;32989  
 8; 2448.4; 21-JUN-2008 17:21:17; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;32989  
 9; 2838.2; 21-JUN-2008 17:27:47; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;32989  
 10; 2953.8; 21-JUN-2008 17:29:42; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;32989  
 11; 3176.5; 21-JUN-2008 17:33:25; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;32989  
 12; 3446.4; 21-JUN-2008 17:37:55; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;32989  
 13; 3875.3; 21-JUN-2008 17:45:04; Bright; 61.0; 76; 27Gam Cas ; 2.30; 30000;occ; 122; 0;32989  
 14; 4065.3; 21-JUN-2008 17:48:14; Bright; 34.0; 160; 23Gam Per ; 2.93; 4700;occ; 68; 0;32989  
 15; 4271.1; 21-JUN-2008 17:51:40; Bright; 43.5; 73; 57Gam1And ; 2.26; 13100;occ; 87; 0;32989  
 16; 4414.4; 21-JUN-2008 17:54:03; Dark ; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;32989  
 17; 4642.2; 21-JUN-2008 17:57:51; Dark ; 51.0; 50; 13Alp Ari ; 2.01; 4250;occ; 102; 0;32989  
 18; 4931.1; 21-JUN-2008 18:02:40; Dark ; 46.0; 94; 92Alp Cet ; 2.53; 3100;occ; 92; 0;32989  
 19; 5650.3; 21-JUN-2008 18:14:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32989  
 20; 6014.4; 21-JUN-2008 18:20:43; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;32989  
 21; 6396.6; 21-JUN-2008 18:27:05; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;32989  
 22; 6714.2; 21-JUN-2008 18:32:23; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;32989

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 2; 1141.1; 21-JUN-2008 18:40:06; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;32990  
 3; 1242.4; 21-JUN-2008 18:41:47; Dark ; 42.0; 25; 35Lam Sco ; 1.62; 28000;occ; 84; 0;32990  
 4; 1322.8; 21-JUN-2008 18:43:07; Dark ; 44.0; 116; 19Del Sgr ; 2.70; 4100;occ; 88; 0;32990  
 5; 1625.1; 21-JUN-2008 18:48:10; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;32990  
 6; 1728.9; 21-JUN-2008 18:49:53; Bright; 36.5; 98; 13Zet Oph ; 2.57; 30000;occ; 73; 0;32990  
 7; 1991.5; 21-JUN-2008 18:54:16; Bright; 39.5; 126; 60Bet Oph ; 2.77; 4250;occ; 79; 0;32990  
 8; 2136.8; 21-JUN-2008 18:56:41; Bright; 40.5; 59; 55Alp Oph ; 2.08; 8900;occ; 81; 0;32990  
 9; 2274.2; 21-JUN-2008 18:58:59; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;32990  
 10; 2448.4; 21-JUN-2008 19:01:53; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;32990  
 11; 2837.9; 21-JUN-2008 19:08:22; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;32990  
 12; 2953.7; 21-JUN-2008 19:10:18; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;32990  
 13; 3176.6; 21-JUN-2008 19:14:01; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;32990  
 14; 3446.4; 21-JUN-2008 19:18:31; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;32990  
 15; 3875.2; 21-JUN-2008 19:25:40; Bright; 61.0; 76; 27Gam Cas ; 2.30; 30000;occ; 122; 0;32990  
 16; 4065.4; 21-JUN-2008 19:28:50; Bright; 36.0; 160; 23Gam Per ; 2.93; 4700;occ; 72; 0;32990  
 17; 4271.1; 21-JUN-2008 19:32:16; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;32990  
 18; 4414.3; 21-JUN-2008 19:34:39; Dark ; 42.5; 173; 4Bet Tri ; 3.00; 8900;occ; 85; 0;32990  
 19; 4642.5; 21-JUN-2008 19:38:27; Dark ; 52.0; 50; 13Alp Ari ; 2.01; 4250;occ; 104; 0;32990  
 20; 4931.3; 21-JUN-2008 19:43:16; Dark ; 44.0; 94; 92Alp Cet ; 2.53; 3100;occ; 88; 0;32990  
 21; 5650.7; 21-JUN-2008 19:55:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32990  
 22; 6014.8; 21-JUN-2008 20:01:19; Dark ; 39.0; 9; Alp Eri ; 0.45; 24000;occ; 78; 0;32990  
 23; 6397.5; 21-JUN-2008 20:07:42; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;32990  
 24; 6714.8; 21-JUN-2008 20:12:59; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;32990

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 2; -20.0; 22-JUN-2008 01:03:08; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;32993  
 3; 364.5; 22-JUN-2008 01:09:33; Dark ; 51.0; 63; Bet Gru ; 2.15; 2800;occ; 102; 0;32994

4; 680.4; 22-JUN-2008 01:14:49; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;32994  
5; 1035.8; 22-JUN-2008 01:20:44; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;32994  
6; 1142.1; 22-JUN-2008 01:22:30; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;32994  
7; 1243.4; 22-JUN-2008 01:24:12; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;32994  
8; 1323.9; 22-JUN-2008 01:25:32; Dark ; 55.5; 116; 19Del Sgr ; 2.70; 4100;occ; 111; 0;32994  
9; 1399.9; 22-JUN-2008 01:26:48; Bright; 43.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 86; 0;32994  
10; 1625.5; 22-JUN-2008 01:30:34; Bright; 38.0; 86; 35Eta Oph ; 2.43; 10200;occ; 76; 0;32994  
11; 1729.3; 22-JUN-2008 01:32:17; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;32994  
12; 1990.7; 22-JUN-2008 01:36:39; Bright; 40.0; 126; 60Bet Oph ; 2.77; 4250;occ; 80; 0;32994  
13; 2135.9; 22-JUN-2008 01:39:04; Bright; 40.0; 59; 55Alp Oph ; 2.08; 8900;occ; 80; 0;32994  
14; 2274.2; 22-JUN-2008 01:41:22; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;32994  
15; 2447.9; 22-JUN-2008 01:44:16; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;32994  
16; 2836.6; 22-JUN-2008 01:50:45; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;32994  
17; 2953.4; 22-JUN-2008 01:52:41; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;32994  
18; 3176.8; 22-JUN-2008 01:56:25; Bright; 31.5; 60; 7Bet UMi ; 2.08; 3950;occ; 63; 0;32994  
19; 3446.2; 22-JUN-2008 02:00:54; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;32994  
20; 3873.9; 22-JUN-2008 02:08:02; Bright; 32.5; 76; 27Gam Cas ; 2.30; 30000;occ; 65; 0;32994

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2;-1970.7; 22-JUN-2008 02:11:13; Bright; 35.5; 160; 23Gam Per ; 2.93; 4700;occ; 71; 0;32994  
3;-1764.9; 22-JUN-2008 02:14:39; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;32994  
4;-1621.1; 22-JUN-2008 02:17:03; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;32994  
5;-1392.4; 22-JUN-2008 02:20:52; Dark ; 51.0; 50; 13Alp Ari ; 2.01; 4250;occ; 102; 0;32994  
6;-1103.4; 22-JUN-2008 02:25:41; Dark ; 45.0; 94; 92Alp Cet ; 2.53; 3100;occ; 90; 0;32994  
7; -627.3; 22-JUN-2008 02:33:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32994  
8; -19.5; 22-JUN-2008 02:43:45; Dark ; 47.0; 9; Alp Eri ; 0.45; 24000;occ; 94; 0;32994  
9; 365.6; 22-JUN-2008 02:50:10; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;32995  
10; 681.0; 22-JUN-2008 02:55:25; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;32995  
11; 1036.0; 22-JUN-2008 03:01:20; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;32995  
12; 1142.4; 22-JUN-2008 03:03:06; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;32995  
13; 1243.6; 22-JUN-2008 03:04:48; Dark ; 40.0; 25; 35Lam Sco ; 1.62; 28000;occ; 80; 0;32995  
14; 1324.2; 22-JUN-2008 03:06:08; Dark ; 52.5; 116; 19Del Sgr ; 2.70; 4100;occ; 105; 0;32995  
15; 1400.2; 22-JUN-2008 03:07:24; Bright; 44.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 88; 0;32995  
16; 1625.7; 22-JUN-2008 03:11:10; Bright; 37.5; 86; 35Eta Oph ; 2.43; 10200;occ; 75; 0;32995  
17; 1729.5; 22-JUN-2008 03:12:53; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;32995  
18; 1990.7; 22-JUN-2008 03:17:15; Bright; 39.5; 126; 60Bet Oph ; 2.77; 4250;occ; 79; 0;32995  
19; 2135.8; 22-JUN-2008 03:19:40; Bright; 39.5; 59; 55Alp Oph ; 2.08; 8900;occ; 79; 0;32995  
20; 2274.3; 22-JUN-2008 03:21:58; Bright; 52.0; 127; 27Bet Her ; 2.78; 4700;occ; 104; 0;32995  
21; 2447.9; 22-JUN-2008 03:24:52; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;32995  
22; 2836.4; 22-JUN-2008 03:31:20; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;32995  
23; 2953.5; 22-JUN-2008 03:33:17; Bright; 33.5; 119; 14Eta Dra ; 2.73; 4700;occ; 67; 0;32995  
24; 3177.0; 22-JUN-2008 03:37:01; Bright; 33.0; 60; 7Bet UMi ; 2.08; 3950;occ; 66; 0;32995  
25; 3446.2; 22-JUN-2008 03:41:30; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;32995

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5;-1392.1; 22-JUN-2008 04:01:28; Dark ; 53.5; 50; 13Alp Ari ; 2.01; 4250;occ; 107; 0;32995  
6;-1103.1; 22-JUN-2008 04:06:17; Dark ; 45.5; 94; 92Alp Cet ; 2.53; 3100;occ; 91; 0;32995  
7; -626.6; 22-JUN-2008 04:14:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32995  
8; -19.1; 22-JUN-2008 04:24:21; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;32995  
9; 366.5; 22-JUN-2008 04:30:47; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;32996  
10; 681.7; 22-JUN-2008 04:36:02; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;32996  
11; 1142.7; 22-JUN-2008 04:43:43; Dark ; 39.0; 40; The Sco ; 1.86; 7100;occ; 78; 0;32996  
12; 1243.8; 22-JUN-2008 04:45:24; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;32996  
13; 1324.6; 22-JUN-2008 04:46:45; Dark ; 54.0; 116; 19Del Sgr ; 2.70; 4100;occ; 108; 0;32996  
14; 1400.6; 22-JUN-2008 04:48:01; Bright; 42.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 85; 0;32996  
15; 1625.9; 22-JUN-2008 04:51:46; Bright; 38.0; 86; 35Eta Oph ; 2.43; 10200;occ; 76; 0;32996  
16; 1729.4; 22-JUN-2008 04:53:29; Bright; 35.0; 98; 13Zet Oph ; 2.57; 30000;occ; 70; 0;32996  
17; 1990.6; 22-JUN-2008 04:57:51; Bright; 40.0; 126; 60Bet Oph ; 2.77; 4250;occ; 80; 0;32996  
18; 2135.6; 22-JUN-2008 05:00:16; Bright; 39.5; 59; 55Alp Oph ; 2.08; 8900;occ; 79; 0;32996  
19; 2274.3; 22-JUN-2008 05:02:34; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;32996  
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21; 2836.2; 22-JUN-2008 05:11:56; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;32996  
22; 2953.3; 22-JUN-2008 05:13:53; Bright; 34.5; 119; 14Eta Dra ; 2.73; 4700;occ; 69; 0;32996  
23; 3177.0; 22-JUN-2008 05:17:37; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;32996  
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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20080622\_052913\_000056432069\_00377\_32996\_5966.N1

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 3; -1764.9; 22-JUN-2008 05:35:51; Bright; 60.0; 73; 57Gam1And ; 2.26; 13100;occ; 120; 0;32996  
 4; -1621.2; 22-JUN-2008 05:38:15; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;32996  
 5; -1102.8; 22-JUN-2008 05:46:53; Dark ; 41.5; 94; 92Alp Cet ; 2.53; 3100;occ; 83; 0;32996  
 6; -626.0; 22-JUN-2008 05:54:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32996  
 7; -18.7; 22-JUN-2008 06:04:57; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;32996  
 8; 367.5; 22-JUN-2008 06:11:24; Dark ; 58.0; 63; Bet Gru ; 2.15; 2800;occ; 116; 0;32997  
 9; 682.2; 22-JUN-2008 06:16:38; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;32997  
 10; 1143.0; 22-JUN-2008 06:24:19; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;32997  
 11; 1244.0; 22-JUN-2008 06:26:00; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;32997  
 12; 1324.8; 22-JUN-2008 06:27:21; Dark ; 46.0; 116; 19Del Sgr ; 2.70; 4100;occ; 92; 0;32997  
 13; 1400.7; 22-JUN-2008 06:28:37; Bright; 44.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 88; 0;32997  
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 17; 2135.5; 22-JUN-2008 06:40:51; Bright; 41.5; 59; 55Alp Oph ; 2.08; 8900;occ; 83; 0;32997  
 18; 2274.4; 22-JUN-2008 06:43:10; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;32997  
 19; 2447.8; 22-JUN-2008 06:46:04; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;32997  
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 21; 2953.2; 22-JUN-2008 06:54:29; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;32997  
 22; 3177.1; 22-JUN-2008 06:58:13; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;32997  
 23; 3446.2; 22-JUN-2008 07:02:42; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;32997

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 3; 1327.0; 22-JUN-2008 19:52:10; Dark ; 50.0; 116; 19Del Sgr ; 2.70; 4100;occ; 100; 0;33005  
 4; 1402.7; 22-JUN-2008 19:53:26; Bright; 44.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 89; 0;33005  
 5; 1627.0; 22-JUN-2008 19:57:11; Bright; 37.5; 86; 35Eta Oph ; 2.43; 10200;occ; 75; 0;33005  
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 7; 1989.5; 22-JUN-2008 20:03:13; Bright; 39.5; 126; 60Bet Oph ; 2.77; 4250;occ; 79; 0;33005  
 8; 2134.0; 22-JUN-2008 20:05:38; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;33005  
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 12; 2952.9; 22-JUN-2008 20:19:16; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;33005  
 13; 3177.8; 22-JUN-2008 20:23:01; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;33005  
 14; 3446.2; 22-JUN-2008 20:27:30; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33005  
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 7; 1327.2; 22-JUN-2008 21:32:47; Dark ; 51.0; 116; 19Del Sgr ; 2.70; 4100;occ; 102; 0;33006  
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2;	-14.6;	22-JUN-2008	22:51:01;	Dark	;	48.0;	9;	Alp Eri	;	0.45;	24000;occ;	96;	0;33006
3;	377.3;	22-JUN-2008	22:57:33;	Dark	;	50.5;	63;	Bet Gru	;	2.15;	2800;occ;	101;	0;33007
4;	687.6;	22-JUN-2008	23:02:43;	Dark	;	40.5;	45;	Alp Pav	;	1.94;	26000;occ;	81;	0;33007
5;	1145.4;	22-JUN-2008	23:10:21;	Dark	;	40.5;	40;	The Sco	;	1.86;	7100;occ;	81;	0;33007
6;	1246.4;	22-JUN-2008	23:12:02;	Dark	;	43.5;	25;	35Lam Sco	;	1.62;	28000;occ;	87;	0;33007
7;	1327.5;	22-JUN-2008	23:13:23;	Dark	;	45.0;	116;	19Del Sgr	;	2.70;	4100;occ;	90;	0;33007
8;	1627.2;	22-JUN-2008	23:18:22;	Bright;	;	37.0;	86;	35Eta Oph	;	2.43;	10200;occ;	74;	0;33007
9;	1731.0;	22-JUN-2008	23:20:06;	Bright;	;	36.5;	98;	13Zet Oph	;	2.57;	30000;occ;	73;	0;33007
10;	1989.2;	22-JUN-2008	23:24:24;	Bright;	;	39.5;	126;	60Bet Oph	;	2.77;	4250;occ;	79;	0;33007
11;	2133.7;	22-JUN-2008	23:26:49;	Bright;	;	40.0;	59;	55Alp Oph	;	2.08;	8900;occ;	80;	0;33007
12;	2274.5;	22-JUN-2008	23:29:10;	Bright;	;	36.5;	127;	27Bet Her	;	2.78;	4700;occ;	73;	0;33007
13;	2447.2;	22-JUN-2008	23:32:02;	Bright;	;	35.5;	133;	40Zet Her	;	2.81;	6000;occ;	71;	0;33007
14;	2832.9;	22-JUN-2008	23:38:28;	Bright;	;	39.5;	130;	23Bet Dra	;	2.80;	5800;occ;	79;	0;33007
15;	2952.8;	22-JUN-2008	23:40:28;	Bright;	;	37.0;	119;	14Eta Dra	;	2.73;	4700;occ;	74;	0;33007
16;	3178.0;	22-JUN-2008	23:44:13;	Bright;	;	39.0;	60;	7Bet UMi	;	2.08;	3950;occ;	78;	0;33007
17;	3446.1;	22-JUN-2008	23:48:41;	Bright;	;	35.0;	49;	1Alp UMi	;	1.99;	6300;occ;	70;	0;33007
18;	3870.1;	22-JUN-2008	23:55:45;	Bright;	;	50.0;	76;	27Gam Cas	;	2.30;	30000;occ;	100;	0;33007
19;	4065.3;	22-JUN-2008	23:59:01;	Bright;	;	34.0;	160;	23Gam Per	;	2.93;	4700;occ;	68;	0;33007
20;	4270.8;	23-JUN-2008	00:02:26;	Bright;	;	43.5;	73;	57Gam1And	;	2.26;	13100;occ;	87;	0;33007
21;	4415.8;	23-JUN-2008	00:04:51;	Dark	;	44.0;	173;	4Bet Tri	;	3.00;	8900;occ;	88;	0;33007
22;	4936.5;	23-JUN-2008	00:13:32;	Dark	;	45.5;	94;	92Alp Cet	;	2.53;	3100;occ;	91;	0;33007
23;	5417.1;	23-JUN-2008	00:21:32;	Dark	;	20.0;	0;	;	;	0.00;	0;occ;	40;	0;33007
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2;	-1970.7;	22-JUN-2008	07:13:01;	Bright;	;	34.0;	160;	23Gam Per	;	2.93;	4700;occ;	68;	0;32997
3;	-1764.9;	22-JUN-2008	07:16:27;	Bright;	;	43.5;	73;	57Gam1And	;	2.26;	13100;occ;	87;	0;32997
4;	-1621.0;	22-JUN-2008	07:18:51;	Dark	;	44.0;	173;	4Bet Tri	;	3.00;	8900;occ;	88;	0;32997
5;	-1102.4;	22-JUN-2008	07:27:30;	Dark	;	37.0;	94;	92Alp Cet	;	2.53;	3100;occ;	74;	0;32997
6;	-625.3;	22-JUN-2008	07:35:27;	Dark	;	59.5;	0;	;	;	0.00;	0;occ;	119;	0;32997
7;	-18.3;	22-JUN-2008	07:45:34;	Dark	;	43.5;	9;	Alp Eri	;	0.45;	24000;occ;	87;	0;32997
8;	368.6;	22-JUN-2008	07:52:01;	Dark	;	49.0;	63;	Bet Gru	;	2.15;	2800;occ;	98;	0;32998
9;	682.7;	22-JUN-2008	07:57:15;	Dark	;	41.0;	45;	Alp Pav	;	1.94;	26000;occ;	82;	0;32998
10;	1143.2;	22-JUN-2008	08:04:55;	Dark	;	42.0;	40;	The Sco	;	1.86;	7100;occ;	84;	0;32998
11;	1244.2;	22-JUN-2008	08:06:36;	Dark	;	42.5;	25;	35Lam Sco	;	1.62;	28000;occ;	85;	0;32998
12;	1325.1;	22-JUN-2008	08:07:57;	Dark	;	46.0;	116;	19Del Sgr	;	2.70;	4100;occ;	92;	0;32998
13;	1401.0;	22-JUN-2008	08:09:13;	Bright;	;	45.5;	137;	22Lam Sgr	;	2.82;	4400;occ;	91;	0;32998
14;	1626.1;	22-JUN-2008	08:12:58;	Bright;	;	37.0;	86;	35Eta Oph	;	2.43;	10200;occ;	74;	0;32998
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2;	1729.9;	22-JUN-2008	08:14:42;	Bright;	;	34.5;	98;	13Zet Oph	;	2.57;	30000;occ;	69;	0;32998
3;	1990.3;	22-JUN-2008	08:19:02;	Bright;	;	40.0;	126;	60Bet Oph	;	2.77;	4250;occ;	80;	0;32998
4;	2135.2;	22-JUN-2008	08:21:27;	Bright;	;	39.0;	59;	55Alp Oph	;	2.08;	8900;occ;	78;	0;32998
5;	2274.4;	22-JUN-2008	08:23:46;	Bright;	;	36.5;	127;	27Bet Her	;	2.78;	4700;occ;	73;	0;32998
6;	2447.8;	22-JUN-2008	08:26:40;	Bright;	;	36.0;	133;	40Zet Her	;	2.81;	6000;occ;	72;	0;32998
7;	2835.5;	22-JUN-2008	08:33:07;	Bright;	;	38.5;	130;	23Bet Dra	;	2.80;	5800;occ;	77;	0;32998
8;	2953.2;	22-JUN-2008	08:35:05;	Bright;	;	36.5;	119;	14Eta Dra	;	2.73;	4700;occ;	73;	0;32998
9;	3177.2;	22-JUN-2008	08:38:49;	Bright;	;	36.5;	60;	7Bet UMi	;	2.08;	3950;occ;	73;	0;32998
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11;	3872.8;	22-JUN-2008	08:50:25;	Bright;	;	42.0;	76;	27Gam Cas	;	2.30;	30000;occ;	84;	0;32998
12;	4065.1;	22-JUN-2008	08:53:37;	Bright;	;	39.0;	160;	23Gam Per	;	2.93;	4700;occ;	78;	0;32998
13;	4270.9;	22-JUN-2008	08:57:03;	Bright;	;	44.5;	73;	57Gam1And	;	2.26;	13100;occ;	89;	0;32998
14;	4415.1;	22-JUN-2008	08:59:27;	Dark	;	44.0;	173;	4Bet Tri	;	3.00;	8900;occ;	88;	0;32998
15;	4933.8;	22-JUN-2008	09:08:06;	Dark	;	36.5;	94;	92Alp Cet	;	2.53;	3100;occ;	73;	0;32998
16;	5411.3;	22-JUN-2008	09:16:03;	Dark	;	59.5;	0;	;	;	0.00;	0;occ;	119;	0;32998
17;	6018.0;	22-JUN-2008	09:26:10;	Dark	;	49.0;	9;	Alp Eri	;	0.45;	24000;occ;	98;	0;32998
18;	6405.4;	22-JUN-2008	09:32:37;	Dark	;	54.0;	63;	Bet Gru	;	2.15;	2800;occ;	108;	0;32998
19;	6719.2;	22-JUN-2008	09:37:51;	Dark	;	43.0;	45;	Alp Pav	;	1.94;	26000;occ;	86;	0;32998
20;	7179.4;	22-JUN-2008	09:45:31;	Dark	;	41.0;	40;	The Sco	;	1.86;	7100;occ;	82;	0;32998
21;	7280.5;	22-JUN-2008	09:47:12;	Dark	;	43.0;	25;	35Lam Sco	;	1.62;	28000;occ;	86;	0;32998
22;	7361.2;	22-JUN-2008	09:48:33;	Dark	;	58.0;	116;	19Del Sgr	;	2.70;	4100;occ;	116;	0;32998
23;	7437.2;	22-JUN-2008	09:49:49;	Bright;	;	43.5;	137;	22Lam Sgr	;	2.82;	4400;occ;	87;	0;32998
24;	7662.0;	22-JUN-2008	09:53:34;	Bright;	;	38.5;	86;	35Eta Oph	;	2.43;	10200;occ;	77;	0;32998
25;	7765.8;	22-JUN-2008	09:55:18;	Bright;	;	35.0;	98;	13Zet Oph	;	2.57;	30000;occ;	70;	1;32998
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2;	1990.3;	22-JUN-2008	09:59:38;	Bright;	;	39.5;	126;	60Bet Oph	;	2.77;	4250;occ;	79;	0;32999
3;	2135.0;	22-JUN-2008	10:02:03;	Bright;	;	41.0;	59;	55Alp Oph	;	2.08;	8900;occ;	82;	0;32999

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17; 6406.3; 22-JUN-2008 11:13:14; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;32999
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19; 7179.6; 22-JUN-2008 11:26:07; Dark ; 39.0; 40; The Sco ; 1.86; 7100;occ; 78; 0;32999
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22; 3178.6; 23-JUN-2008 06:26:38; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;33011
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17; 5421.9; 23-JUN-2008 12:05:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33014
18; 6024.8; 23-JUN-2008 12:15:52; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;33014
19; 6421.2; 23-JUN-2008 12:22:28; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;33014
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21; 7183.5; 23-JUN-2008 12:35:10; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;33014
22; 7284.4; 23-JUN-2008 12:36:51; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;33014
23; 7365.8; 23-JUN-2008 12:38:12; Dark ; 46.0; 116; 19Del Sgr ; 2.70; 4100;occ; 92; 0;33014
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2; 1732.2; 23-JUN-2008 12:44:55; Bright; 36.5; 98; 13Zet Oph ; 2.57; 30000;occ; 73; 0;33015
3; 1988.5; 23-JUN-2008 12:49:11; Bright; 38.5; 126; 60Bet Oph ; 2.77; 4250;occ; 77; 0;33015
4; 2132.5; 23-JUN-2008 12:51:35; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;33015
5; 2274.8; 23-JUN-2008 12:53:57; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;33015
6; 2446.9; 23-JUN-2008 12:56:50; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;33015
7; 2830.9; 23-JUN-2008 13:03:13; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;33015
8; 2952.6; 23-JUN-2008 13:05:15; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;33015
9; 3179.0; 23-JUN-2008 13:09:02; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;33015
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11; 3867.9; 23-JUN-2008 13:20:31; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;33015
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13; 4270.7; 23-JUN-2008 13:27:13; Bright; 44.0; 73; 57Gam1And ; 2.26; 13100;occ; 88; 0;33015
14; 4416.6; 23-JUN-2008 13:29:39; Dark ; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;33015
15; 4649.1; 23-JUN-2008 13:33:32; Dark ; 50.0; 50; 13Alp Ari ; 2.01; 4250;occ; 100; 0;33015
16; 4939.4; 23-JUN-2008 13:38:22; Dark ; 47.0; 94; 92Alp Cet ; 2.53; 3100;occ; 94; 0;33015
17; 5422.6; 23-JUN-2008 13:46:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33015
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22; 7284.6; 23-JUN-2008 14:17:27; Dark ; 40.0; 25; 35Lam Sco ; 1.62; 28000;occ; 80; 0;33015
23; 7366.0; 23-JUN-2008 14:18:49; Dark ; 43.5; 116; 19Del Sgr ; 2.70; 4100;occ; 87; 0;33015
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2; 1732.3; 23-JUN-2008 14:25:31; Bright; 35.5; 98; 13Zet Oph ; 2.57; 30000;occ; 71; 0;33016
3; 1988.4; 23-JUN-2008 14:29:47; Bright; 40.0; 126; 60Bet Oph ; 2.77; 4250;occ; 80; 0;33016
4; 2132.4; 23-JUN-2008 14:32:11; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;33016

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6; 2446.9; 23-JUN-2008 14:37:25; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;33016  
7; 2830.7; 23-JUN-2008 14:43:49; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;33016  
8; 2952.6; 23-JUN-2008 14:45:51; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;33016  
9; 3179.1; 23-JUN-2008 14:49:38; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;33016  
10; 3446.3; 23-JUN-2008 14:54:05; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;33016  
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12; 4065.4; 23-JUN-2008 15:04:24; Bright; 34.5; 160; 23Gam Per ; 2.93; 4700;occ; 69; 0;33016  
13; 4270.9; 23-JUN-2008 15:07:49; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;33016  
14; 4649.4; 23-JUN-2008 15:14:08; Dark ; 57.5; 50; 13Alp Ari ; 2.01; 4250;occ; 115; 0;33016  
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5; 2132.2; 23-JUN-2008 16:12:47; Bright; 39.5; 59; 55Alp Oph ; 2.08; 8900;occ; 79; 0;33017  
6; 2274.9; 23-JUN-2008 16:15:09; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;33017  
7; 2446.9; 23-JUN-2008 16:18:01; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;33017  
8; 2830.4; 23-JUN-2008 16:24:25; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;33017  
9; 2952.5; 23-JUN-2008 16:26:27; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33017  
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13; 4065.4; 23-JUN-2008 16:45:00; Bright; 33.5; 160; 23Gam Per ; 2.93; 4700;occ; 67; 0;33017  
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16; 4940.1; 23-JUN-2008 16:59:34; Dark ; 45.5; 94; 92Alp Cet ; 2.53; 3100;occ; 91; 0;33017  
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19; 6424.3; 23-JUN-2008 17:24:19; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;33017  
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21; 7184.4; 23-JUN-2008 17:36:59; Dark ; 39.0; 40; The Sco ; 1.86; 7100;occ; 78; 0;33017

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3; 1330.6; 23-JUN-2008 17:40:01; Dark ; 58.0; 116; 19Del Sgr ; 2.70; 4100;occ; 116; 0;33018  
4; 1628.7; 23-JUN-2008 17:44:59; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;33018  
5; 1732.6; 23-JUN-2008 17:46:43; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;33018  
6; 1988.1; 23-JUN-2008 17:50:59; Bright; 58.0; 126; 60Bet Oph ; 2.77; 4250;occ; 116; 0;33018  
7; 2132.0; 23-JUN-2008 17:53:22; Bright; 40.5; 59; 55Alp Oph ; 2.08; 8900;occ; 81; 0;33018  
8; 2274.9; 23-JUN-2008 17:55:45; Bright; 51.0; 127; 27Bet Her ; 2.78; 4700;occ; 102; 0;33018  
9; 2446.8; 23-JUN-2008 17:58:37; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;33018  
10; 2830.2; 23-JUN-2008 18:05:01; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;33018  
11; 2952.4; 23-JUN-2008 18:07:03; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33018  
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13; 3446.1; 23-JUN-2008 18:15:17; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33018  
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17; 4649.9; 23-JUN-2008 18:35:20; Dark ; 48.5; 50; 13Alp Ari ; 2.01; 4250;occ; 97; 0;33018  
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6; 1987.9; 23-JUN-2008 19:31:34; Bright; 39.0; 126; 60Bet Oph ; 2.77; 4250;occ; 78; 0;33019  
7; 2131.8; 23-JUN-2008 19:33:58; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;33019  
8; 2274.8; 23-JUN-2008 19:36:21; Bright; 38.0; 127; 27Bet Her ; 2.78; 4700;occ; 76; 0;33019  
9; 2446.8; 23-JUN-2008 19:39:13; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;33019  
10; 2829.9; 23-JUN-2008 19:45:36; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;33019  
11; 2952.3; 23-JUN-2008 19:47:39; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;33019  
12; 3179.3; 23-JUN-2008 19:51:26; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;33019  
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4; 696.4; 24-JUN-2008 01:52:26; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;33023  
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9; 697.1; 24-JUN-2008 03:33:03; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;33024  
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15; 1987.6; 24-JUN-2008 03:54:33; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;33024  
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 16; 6435.1; 24-JUN-2008 11:51:05; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;33028  
 17; 6735.6; 24-JUN-2008 11:56:05; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;33028  
 18; 7187.0; 24-JUN-2008 12:03:37; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;33028  
 19; 7287.8; 24-JUN-2008 12:05:18; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;33028  
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 21; 7444.3; 24-JUN-2008 12:07:54; Bright; 43.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 87; 0;33028  
 22; 7666.2; 24-JUN-2008 12:11:36; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;33028

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 9; 3446.2; 24-JUN-2008 12:41:52; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33029  
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 11; 4065.3; 24-JUN-2008 12:52:11; Bright; 53.5; 160; 23Gam Per ; 2.93; 4700;occ; 107; 0;33029  
 12; 4289.6; 24-JUN-2008 12:55:55; Bright; 36.0; 79; 26Bet Per ; 2.31; 13100;occ; 72; 0;33029  
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 14; 4943.9; 24-JUN-2008 13:06:50; Dark ; 46.0; 94; 92Alp Cet ; 2.53; 3100;occ; 92; 0;33029  
 15; 5432.3; 24-JUN-2008 13:14:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33029  
 16; 6031.3; 24-JUN-2008 13:24:57; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;33029  
 17; 6436.1; 24-JUN-2008 13:31:42; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;33029  
 18; 6736.2; 24-JUN-2008 13:36:42; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;33029  
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 21; 7369.8; 24-JUN-2008 13:47:15; Dark ; 46.0; 116; 19Del Sgr ; 2.70; 4100;occ; 92; 0;33029  
 22; 7444.7; 24-JUN-2008 13:48:30; Bright; 43.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 86; 0;33029

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 4; 2275.6; 24-JUN-2008 14:02:57; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;33030  
 5; 2446.5; 24-JUN-2008 14:05:48; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;33030  
 6; 2827.1; 24-JUN-2008 14:12:09; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;33030  
 7; 2952.2; 24-JUN-2008 14:14:14; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;33030  
 8; 3180.7; 24-JUN-2008 14:18:02; Bright; 33.5; 60; 7Bet UMi ; 2.08; 3950;occ; 67; 0;33030  
 9; 3446.2; 24-JUN-2008 14:22:28; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;33030  
 10; 3900.5; 24-JUN-2008 14:30:02; Bright; 42.0; 110; 37Del Cas ; 2.68; 8900;occ; 84; 0;33030  
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 13; 4944.4; 24-JUN-2008 14:47:26; Dark ; 44.5; 94; 92Alp Cet ; 2.53; 3100;occ; 89; 0;33030  
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 15; 6031.7; 24-JUN-2008 15:05:33; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;33030  
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 17; 6736.8; 24-JUN-2008 15:17:18; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;33030  
 18; 7187.6; 24-JUN-2008 15:24:49; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;33030  
 19; 7288.2; 24-JUN-2008 15:26:30; Dark ; 37.5; 25; 35Lam Sco ; 1.62; 28000;occ; 75; 0;33030  
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 21; 7444.8; 24-JUN-2008 15:29:06; Bright; 23.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 46; 0;33030

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 5; 2275.6; 24-JUN-2008 15:43:33; Bright; 38.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;33031  
 6; 2446.3; 24-JUN-2008 15:46:24; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;33031  
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 10; 3446.2; 24-JUN-2008 16:03:04; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33031  
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 12; 4065.4; 24-JUN-2008 16:13:23; Bright; 34.5; 160; 23Gam Per ; 2.93; 4700;occ; 69; 0;33031  
 13; 4289.6; 24-JUN-2008 16:17:07; Bright; 41.0; 79; 26Bet Per ; 2.31; 13100;occ; 82; 0;33031  
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 17; 6438.2; 24-JUN-2008 16:52:56; Dark ; 47.0; 63; Bet Gru ; 2.15; 2800;occ; 94; 0;33031  
 18; 6737.4; 24-JUN-2008 16:57:55; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;33031  
 19; 7187.9; 24-JUN-2008 17:05:25; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;33031

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 7; 2275.7; 24-JUN-2008 17:24:09; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;33032  
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 14; 4065.3; 24-JUN-2008 17:53:59; Bright; 51.5; 160; 23Gam Per ; 2.93; 4700;occ; 103; 0;33032  
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 19; 6439.2; 24-JUN-2008 18:33:33; Dark ; 47.0; 63; Bet Gru ; 2.15; 2800;occ; 94; 0;33032  
 20; 6737.9; 24-JUN-2008 18:38:31; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;33032

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 21; 6738.4; 24-JUN-2008 20:19:08; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;33033

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5; -1088.9; 25-JUN-2008 04:12:16; Dark ; 40.5; 94; 92Alp Cet ; 2.53; 3100;occ; 81; 0;33038
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9; 3445.7; 28-JUN-2008 10:35:23; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33085
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13; 4964.4; 28-JUN-2008 11:00:42; Dark ; 46.0; 94; 92Alp Cet ; 2.53; 3100;occ; 92; 0;33085
14; 5192.8; 28-JUN-2008 11:04:30; Dark ; 43.0; 165; 34Gam Eri ; 2.95; 3200;occ; 86; 0;33085
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19; 6765.5; 28-JUN-2008 11:30:43; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;33085
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23; 7300.5; 28-JUN-2008 11:39:38; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;33085
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 6; 2446.5; 28-JUN-2008 11:59:20; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;33086  
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 10; 3445.8; 28-JUN-2008 12:15:59; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;33086  
 11; 4064.1; 28-JUN-2008 12:26:18; Bright; 45.5; 160; 23Gam Per ; 2.93; 4700;occ; 91; 0;33086  
 12; 4164.3; 28-JUN-2008 12:27:58; Bright; 33.0; 175; 39Del Per ; 3.01; 19400;occ; 66; 0;33086  
 13; 4293.1; 28-JUN-2008 12:30:06; Bright; 37.0; 79; 26Bet Per ; 2.31; 13100;occ; 74; 0;33086  
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 15; 5193.1; 28-JUN-2008 12:45:07; Dark ; 40.0; 165; 34Gam Eri ; 2.95; 3200;occ; 80; 0;33086  
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 18; 6345.1; 28-JUN-2008 13:04:19; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;33086  
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 3; 1983.1; 28-JUN-2008 13:32:12; Bright; 38.5; 126; 60Bet Oph ; 2.77; 4250;occ; 77; 0;33087  
 4; 2124.0; 28-JUN-2008 13:34:33; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;33087  
 5; 2280.2; 28-JUN-2008 13:37:09; Bright; 34.0; 127; 27Bet Her ; 2.78; 4700;occ; 68; 0;33087  
 6; 2446.7; 28-JUN-2008 13:39:56; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;33087  
 7; 2814.6; 28-JUN-2008 13:46:04; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;33087  
 8; 2951.7; 28-JUN-2008 13:48:21; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33087  
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 20; 6766.7; 28-JUN-2008 14:51:56; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;33087  
 21; 7006.3; 28-JUN-2008 14:55:56; Dark ; 40.5; 141; Bet Ara ; 2.84; 4600;occ; 81; 0;33087  
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 5; 2280.2; 28-JUN-2008 15:17:45; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;33088  
 6; 2446.7; 28-JUN-2008 15:20:32; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;33088  
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 23; 7006.7; 28-JUN-2008 18:17:08; Dark ; 37.0; 141; Bet Ara ; 2.84; 4600;occ; 74; 0;33089  
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 25; 7006.8; 28-JUN-2008 19:57:44; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;33090

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 13; 2811.2; 29-JUN-2008 19:56:47; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;33105  
 14; 2952.1; 29-JUN-2008 19:59:08; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;33105  
 15; 3189.9; 29-JUN-2008 20:03:06; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;33105  
 16; 3445.7; 29-JUN-2008 20:07:22; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;33105  
 17; 4063.4; 29-JUN-2008 20:17:40; Bright; 35.0; 160; 23Gam Per ; 2.93; 4700;occ; 70; 0;33105  
 18; 4165.4; 29-JUN-2008 20:19:22; Bright; 53.0; 175; 39Del Per ; 3.01; 19400;occ; 106; 0;33105  
 19; 4294.2; 29-JUN-2008 20:21:30; Bright; 56.0; 79; 26Bet Per ; 2.31; 13100;occ; 112; 0;33105  
 20; 4972.4; 29-JUN-2008 20:32:49; Dark ; 50.5; 94; 92Alp Cet ; 2.53; 3100;occ; 101; 0;33105  
 21; 5197.8; 29-JUN-2008 20:36:34; Dark ; 41.0; 165; 34Gam Eri ; 2.95; 3200;occ; 82; 0;33105  
 22; 5708.9; 29-JUN-2008 20:45:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33105  
 23; 6066.2; 29-JUN-2008 20:51:02; Dark ; 48.5; 9; Alp Eri ; 0.45; 24000;occ; 97; 0;33105  
 24; 6349.2; 29-JUN-2008 20:55:45; Dark ; 36.0; 135; Bet Hyi ; 2.82; 5800;occ; 72; 0;33105  
 25; 6512.4; 29-JUN-2008 20:58:29; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;33105  
 26; 6775.6; 29-JUN-2008 21:02:52; Dark ; 39.0; 45; Alp Pav ; 1.94; 26000;occ; 78; 0;33105