

# GOMOS Daily Report 14-JAN-2008

## Level 0 and Level 1 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	16JAN2008 05:54:04
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (14JAN2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (15JAN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

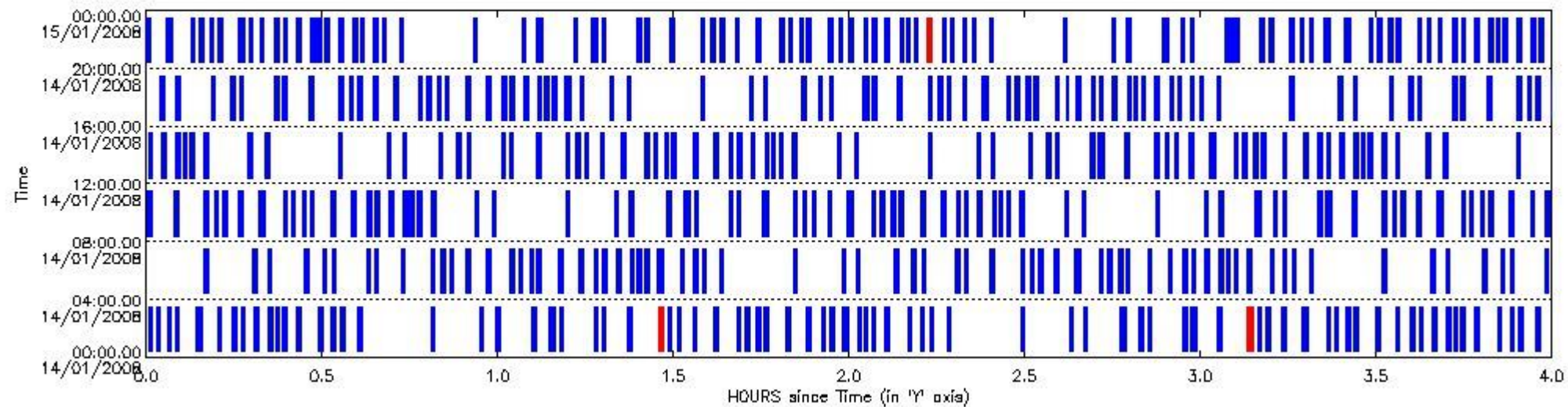
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

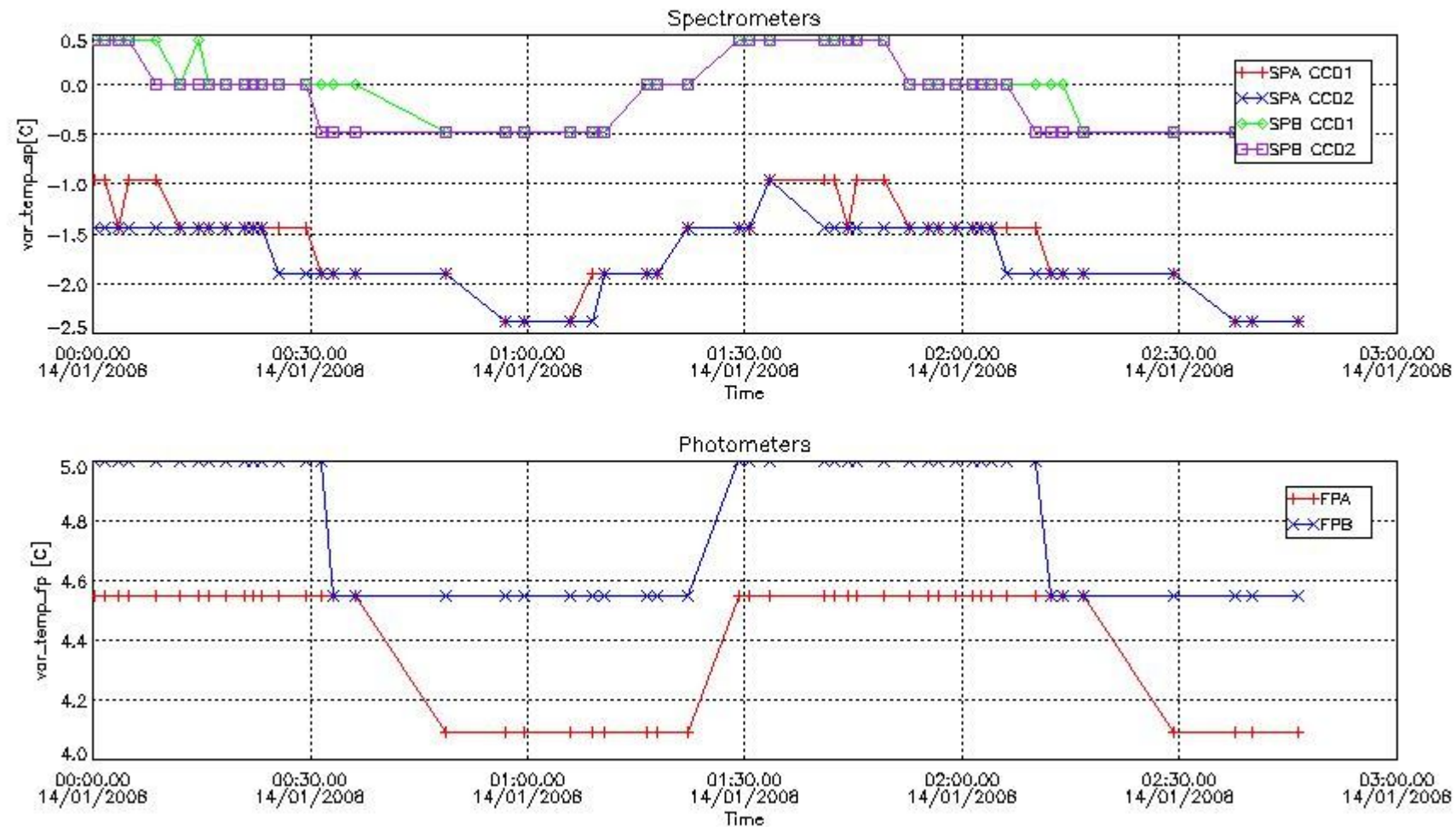
UTC start time	Star name	Star ID	Orbit
14-JAN-2008 01:27:23	GamLup	131	30703
14-JAN-2008 03:07:59	GamLup	131	30704
14-JAN-2008 22:13:19	58AlpOri	14	30716

### 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_1PNPDE20080114_000018_000000382065_00088_30703_6196.N1	14-JAN-2008 00:00:18	Dark	38.000	124	The Car	2.7640	30000.	76	30703	No
2	GOM_TRA_1PNPDE20080114_000145_000000402065_00088_30703_6197.N1	14-JAN-2008 00:01:45	Dark	39.500	29	Bet Car	1.6720	10200.	79	30703	No
3	GOM_TRA_1PNPDE20080114_000336_000000402065_00088_30703_6198.N1	14-JAN-2008 00:03:36	Dark	39.500	71	lot Car	2.2460	7700.0	79	30703	No
4	GOM_TRA_1PNPDE20080114_000454_000000432065_00088_30703_6199.N1	14-JAN-2008 00:04:54	Dark	42.500	41	Eps Car	1.8600	4100.0	85	30703	No
5	GOM_TRA_1PNPDE20080114_000835_000000522065_00088_30703_6200.N1	14-JAN-2008 00:08:35	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	30703	No
6	GOM_TRA_1PNPDE20080114_001205_000000442065_00088_30703_6201.N1	14-JAN-2008 00:12:05	Straylight	43.500	117	Pi Pup	2.7060	3800.0	87	30703	No
7	GOM_TRA_1PNPDE20080114_001440_000000442065_00088_30703_6202.N1	14-JAN-2008 00:14:40	Straylight	44.000	23	21Eps CMa	1.5020	26000.	88	30703	No
8	GOM_TRA_1PNPDE20080114_001606_000000422065_00088_30703_6203.N1	14-JAN-2008 00:16:06	Straylight	41.500	179	24Omi2CMa	3.0320	24000.	83	30703	No

9	GOM_TRA_1PNPDE20080114_001821_000000512065_00088_30703_6204.N1	14-JAN-2008 00:18:21	Straylight	51.000	1	9Alp CMa	-1.4400	11000.	102	30703	No
10	GOM_TRA_1PNPDE20080114_002050_000000412065_00088_30703_6205.N1	14-JAN-2008 00:20:50	Straylight	41.000	56	53Kap Ori	2.0650	30000.	82	30703	No
11	GOM_TRA_1PNPDE20080114_002200_000000382065_00088_30703_6206.N1	14-JAN-2008 00:22:00	Straylight	38.000	125	44Iot Ori	2.7700	30000.	76	30703	No
12	GOM_TRA_1PNPDE20080114_002317_000000422065_00088_30703_6207.N1	14-JAN-2008 00:23:17	Tw_i_and_stray	41.500	30	46Eps Ori	1.6940	30000.	83	30703	No
13	GOM_TRA_1PNPDE20080114_002532_000000522065_00088_30703_6208.N1	14-JAN-2008 00:25:32	Tw_i_and_stray	52.000	14	58Alp Ori	0.87000	3000.0	104	30703	No
14	GOM_TRA_1PNPDE20080114_002929_000000352065_00088_30703_6209.N1	14-JAN-2008 00:29:29	Bright	35.000	176	23Zet Tau	3.0200	22000.	70	30703	No
15	GOM_TRA_1PNPDE20080114_003138_000000372065_00088_30703_6210.N1	14-JAN-2008 00:31:38	Bright	37.000	28	12Bet Tau	1.6500	15200.	74	30703	No
16	GOM_TRA_1PNPDE20080114_003310_000000372065_00088_30703_6211.N1	14-JAN-2008 00:33:10	Bright	37.000	114	3Iot Aur	2.6930	4600.0	74	30703	No
17	GOM_TRA_1PNPDE20080114_003609_000000362065_00088_30703_6212.N1	14-JAN-2008 00:36:09	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	30703	No
18	GOM_TRA_1PNPDE20080114_004841_000000352065_00088_30703_6213.N1	14-JAN-2008 00:48:41	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	30703	No
19	GOM_TRA_1PNPDE20080114_005700_000000372065_00088_30703_6214.N1	14-JAN-2008 00:57:00	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	30703	No
20	GOM_TRA_1PNPDE20080114_005930_000000522065_00088_30703_6215.N1	14-JAN-2008 00:59:30	Bright	52.000	130	23Bet Dra	2.7990	5800.0	104	30703	No
21	GOM_TRA_1PNPDE20080114_010546_000000542065_00088_30703_6216.N1	14-JAN-2008 01:05:46	Bright	54.000	133	40Zet Her	2.8070	6000.0	108	30703	No
22	GOM_TRA_1PNPDE20080114_010850_000000542065_00088_30703_6217.N1	14-JAN-2008 01:08:50	Bright	54.000	127	27Bet Her	2.7810	4700.0	108	30703	No
23	GOM_TRA_1PNPDE20080114_011033_000000332065_00088_30703_6218.N1	14-JAN-2008 01:10:33	Bright	32.500	59	55Alp Oph	2.0800	8900.0	65	30703	No
24	GOM_TRA_1PNPDE20080114_011623_000000392065_00088_30703_6219.N1	14-JAN-2008 01:16:23	Bright	39.000	120	1Del Oph	2.7340	3200.0	78	30703	No
25	GOM_TRA_1PNPDE20080114_011747_000000352065_00088_30703_6220.N1	14-JAN-2008 01:17:47	Bright	34.500	98	13Zet Oph	2.5710	30000.	69	30703	No
26	GOM_TRA_1PNPDE20080114_012214_000000482065_00088_30703_6328.N1	14-JAN-2008 01:22:14	Tw_i_and_stray	47.500	16	21Alp Sco	1.0200	3000.0	95	30703	No
27	GOM_TRA_1PNPDE20080114_012906_000000392065_00088_30703_6329.N1	14-JAN-2008 01:29:06	Dark	39.000	109	Bet Lup	2.6770	26000.	78	30703	No
28	GOM_TRA_1PNPDE20080114_013037_000000412065_00088_30703_6330.N1	14-JAN-2008 01:30:37	Dark	41.000	78	Alp Lup	2.3040	28000.	82	30703	No
29	GOM_TRA_1PNPDE20080114_013318_000000432065_00089_30704_6331.N1	14-JAN-2008 01:33:18	Dark	43.000	4	Alp1Cen	-0.010000	5800.0	86	30704	No
30	GOM_TRA_1PNPDE20080114_014054_000000392065_00089_30704_6332.N1	14-JAN-2008 01:40:54	Dark	38.500	124	The Car	2.7640	30000.	77	30704	No
31	GOM_TRA_1PNPDE20080114_014221_000000382065_00089_30704_6333.N1	14-JAN-2008 01:42:21	Dark	37.500	29	Bet Car	1.6720	10200.	75	30704	No
32	GOM_TRA_1PNPDE20080114_014413_000000402065_00089_30704_6334.N1	14-JAN-2008 01:44:13	Dark	39.500	71	Iot Car	2.2460	7700.0	79	30704	No
33	GOM_TRA_1PNPDE20080114_014530_000000442065_00089_30704_6335.N1	14-JAN-2008 01:45:30	Dark	44.000	41	Eps Car	1.8600	4100.0	88	30704	No
34	GOM_TRA_1PNPDE20080114_014911_000000462065_00089_30704_6336.N1	14-JAN-2008 01:49:11	Dark	45.500	2	Alp Car	-0.73600	7000.0	91	30704	No
35	GOM_TRA_1PNPDE20080114_015241_000000452065_00089_30704_6337.N1	14-JAN-2008 01:52:41	Straylight	45.000	117	Pi Pup	2.7060	3800.0	90	30704	No
36	GOM_TRA_1PNPDE20080114_015516_000000412065_00089_30704_6338.N1	14-JAN-2008 01:55:16	Straylight	41.000	23	21Eps CMa	1.5020	26000.	82	30704	No
37	GOM_TRA_1PNPDE20080114_015642_000000402065_00089_30704_6339.N1	14-JAN-2008 01:56:42	Straylight	39.500	179	24Omi2CMa	3.0320	24000.	79	30704	No
38	GOM_TRA_1PNPDE20080114_015857_000000532065_00089_30704_6340.N1	14-JAN-2008 01:58:57	Straylight	53.000	1	9Alp CMa	-1.4400	11000.	106	30704	No
39	GOM_TRA_1PNPDE20080114_020126_000000402065_00089_30704_6341.N1	14-JAN-2008 02:01:26	Straylight	39.500	56	53Kap Ori	2.0650	30000.	79	30704	No
40	GOM_TRA_1PNPDE20080114_020236_000000402065_00089_30704_6342.N1	14-JAN-2008 02:02:36	Straylight	39.500	125	44Iot Ori	2.7700	30000.	79	30704	No
41	GOM_TRA_1PNPDE20080114_020353_000000422065_00089_30704_6343.N1	14-JAN-2008 02:03:53	Tw_i_and_stray	42.000	30	46Eps Ori	1.6940	30000.	84	30704	No
42	GOM_TRA_1PNPDE20080114_020608_000000522065_00089_30704_6344.N1	14-JAN-2008 02:06:08	Tw_i_and_stray	52.000	14	58Alp Ori	0.87000	3000.0	104	30704	No
43	GOM_TRA_1PNPDE20080114_021005_000000372065_00089_30704_6345.N1	14-JAN-2008 02:10:05	Bright	36.500	176	23Zet Tau	3.0200	22000.	73	30704	No
44	GOM_TRA_1PNPDE20080114_021213_000000372065_00089_30704_6346.N1	14-JAN-2008 02:12:13	Bright	36.500	28	12Bet Tau	1.6500	15200.	73	30704	No
45	GOM_TRA_1PNPDE20080114_021346_000000392065_00089_30704_6347.N1	14-JAN-2008 02:13:46	Bright	38.500	114	3Iot Aur	2.6930	4600.0	77	30704	No
46	GOM_TRA_1PNPDE20080114_021645_000000372065_00089_30704_6348.N1	14-JAN-2008 02:16:45	Bright	36.500	42	34Bet Aur	1.9000	10200.	73	30704	No
47	GOM_TRA_1PNPDE20080114_022917_000000372065_00089_30704_6349.N1	14-JAN-2008 02:29:17	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	30704	No
48	GOM_TRA_1PNPDE20080114_023735_000000382065_00089_30704_6503.N1	14-JAN-2008 02:37:35	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	30704	No
49	GOM_TRA_1PNPDE20080114_024006_000000342065_00089_30704_6504.N1	14-JAN-2008 02:40:06	Bright	34.000	130	23Bet Dra	2.7990	5800.0	68	30704	No
50	GOM_TRA_1PNPDE20080114_024622_000000542065_00089_30704_6505.N1	14-JAN-2008 02:46:22	Bright	54.000	133	40Zet Her	2.8070	6000.0	108	30704	No

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



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

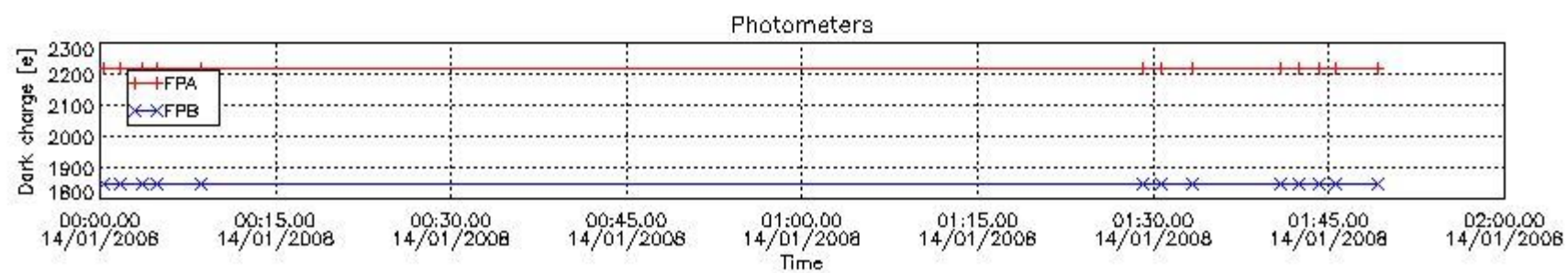
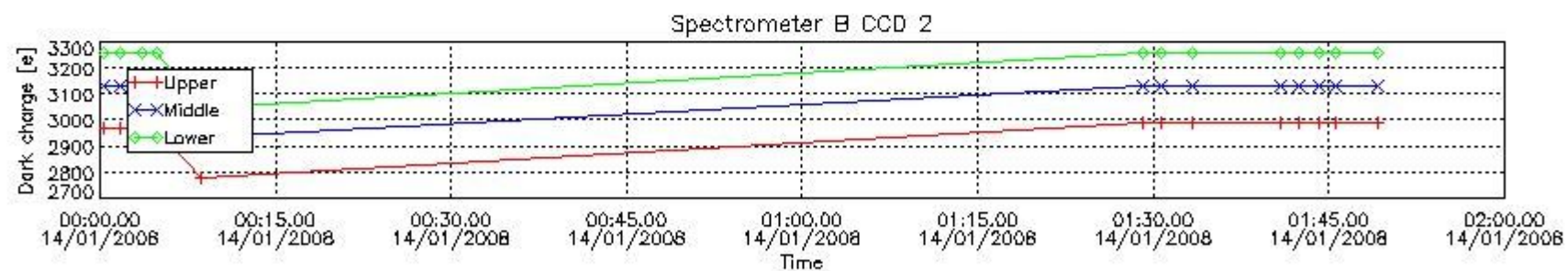
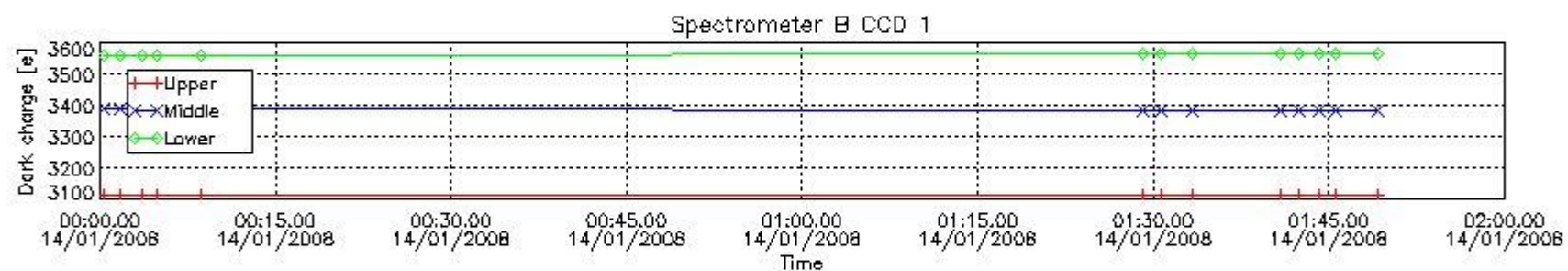
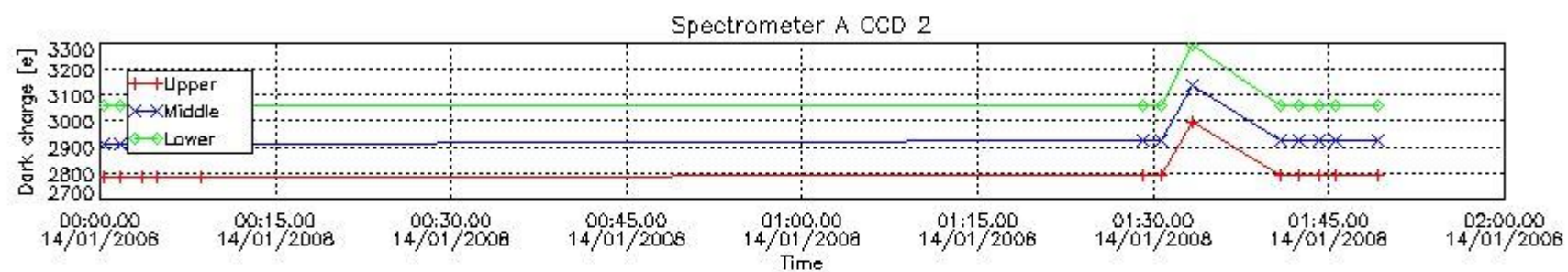
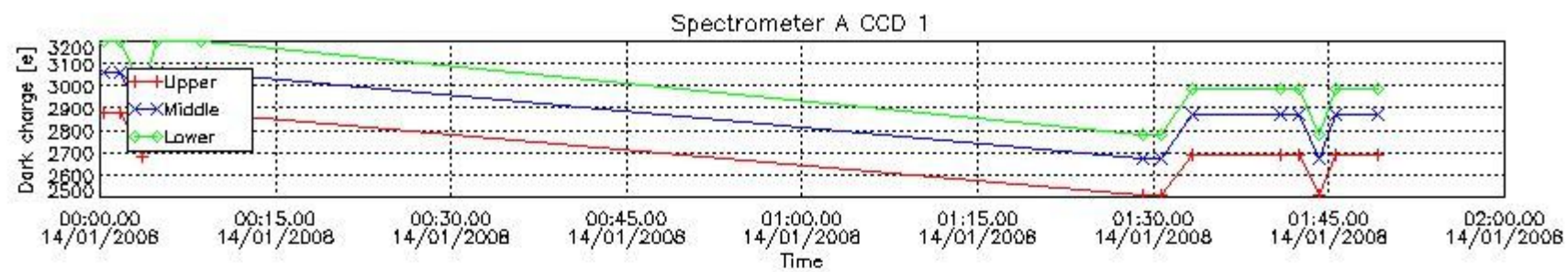
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

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

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

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





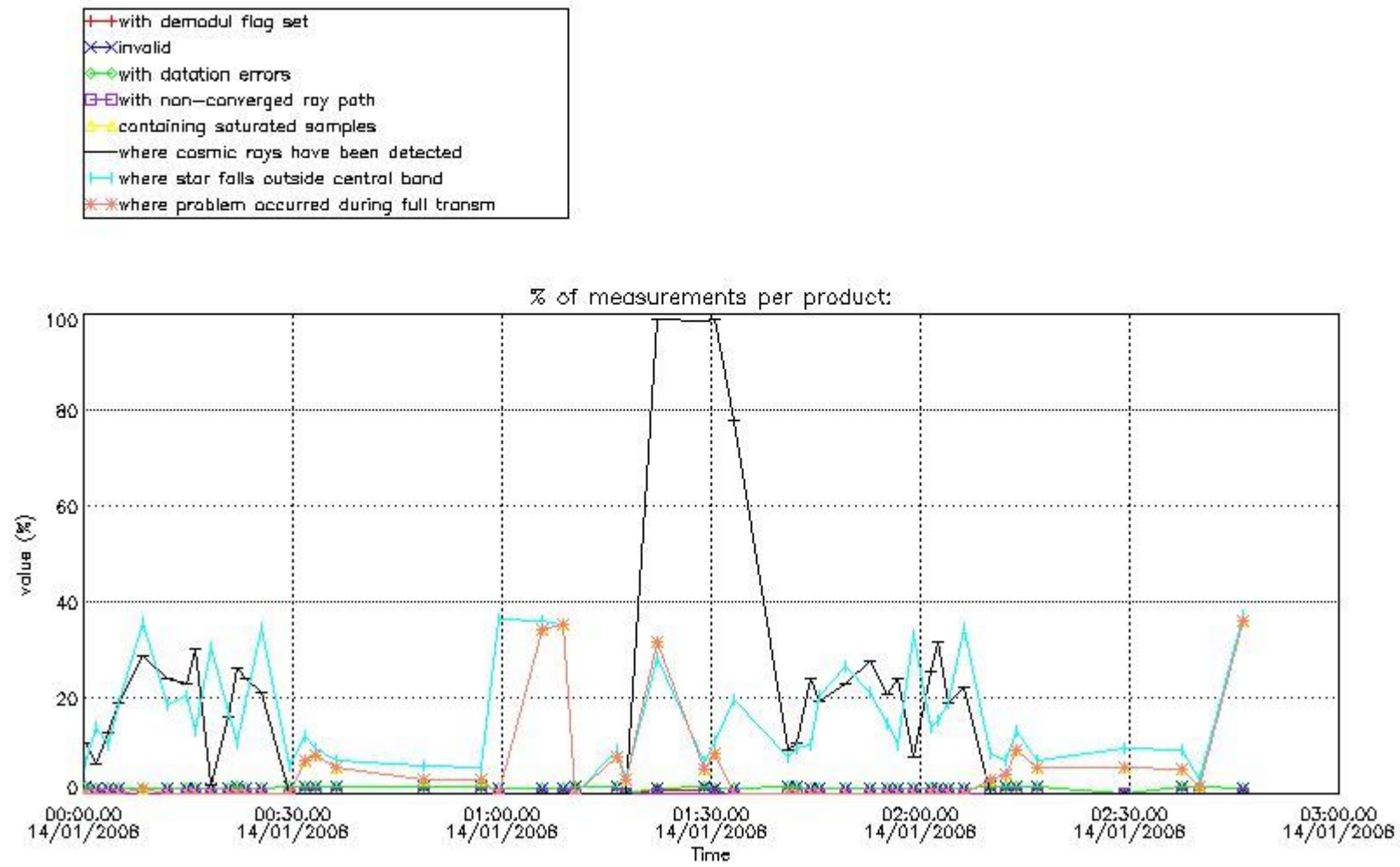
## 5. Demodulation flag and quality information monitoring

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

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

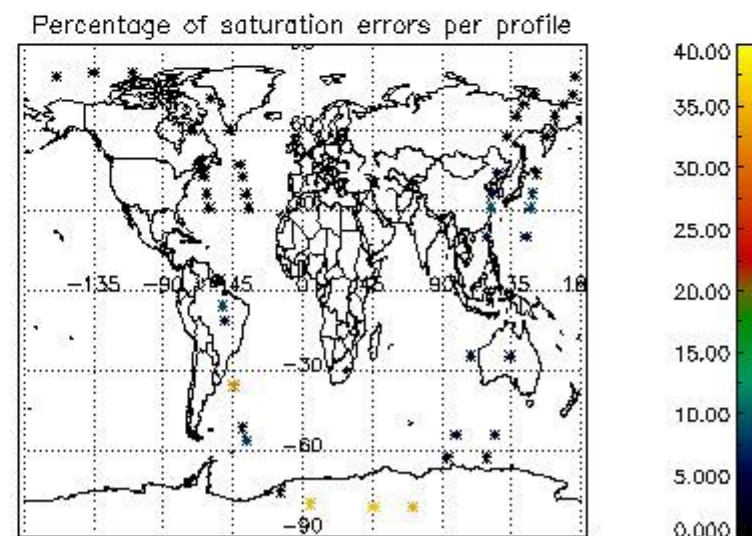
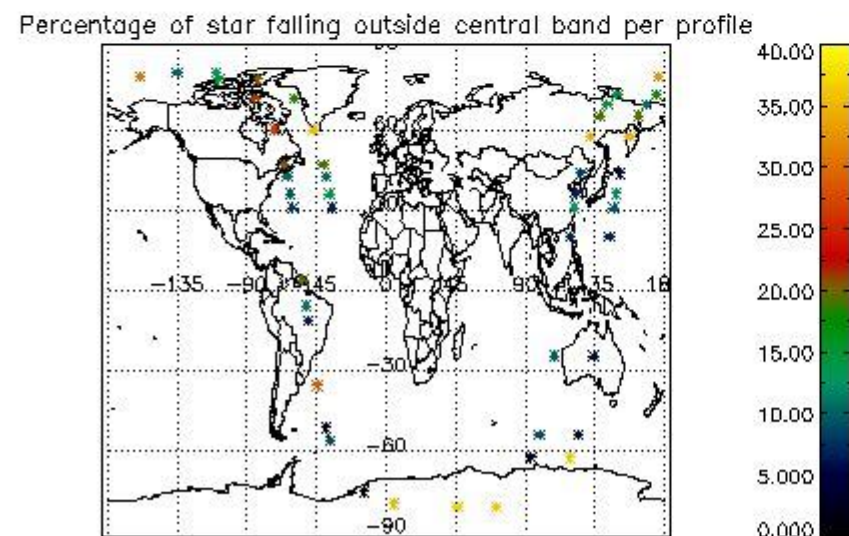
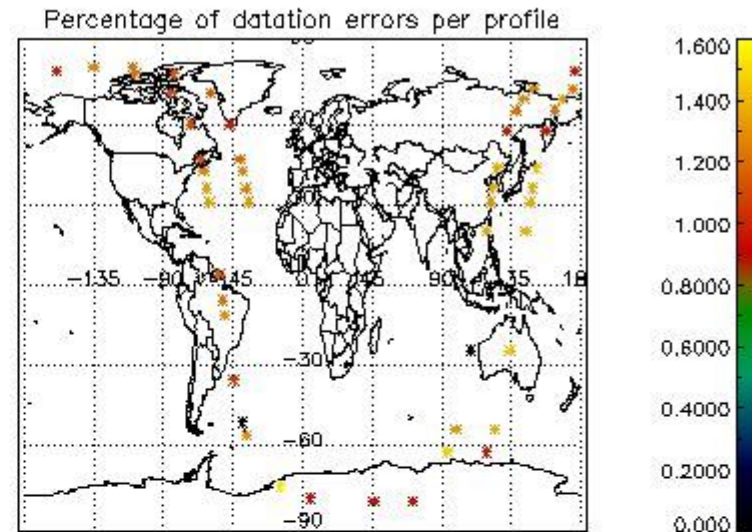
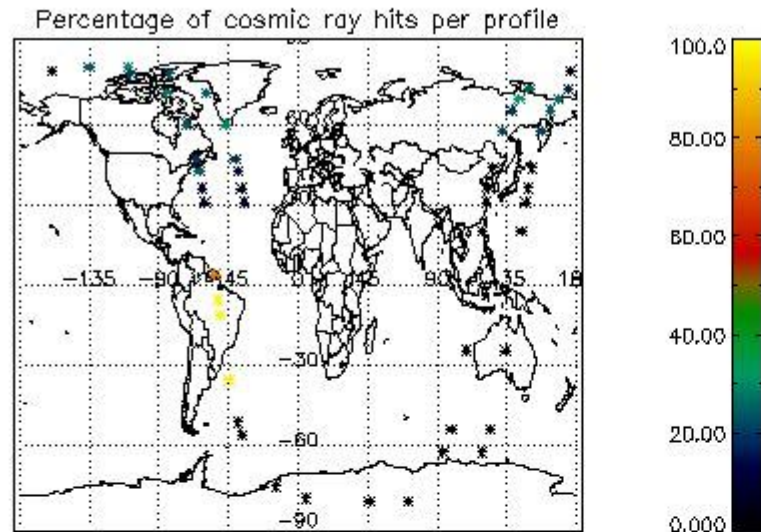
At least one measurement with demodulation flag set:	14.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





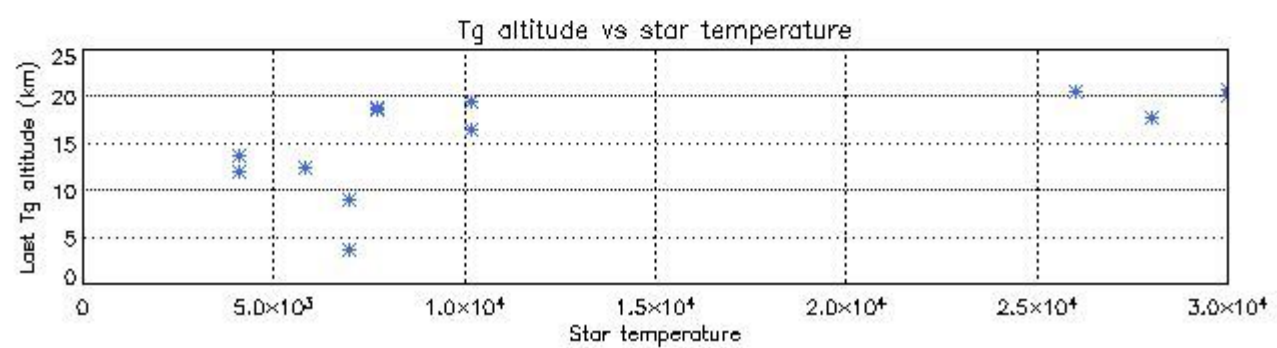
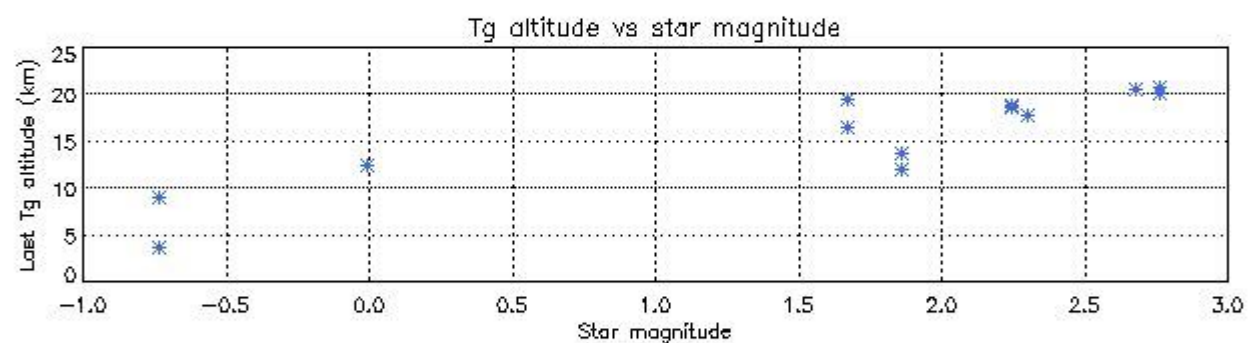
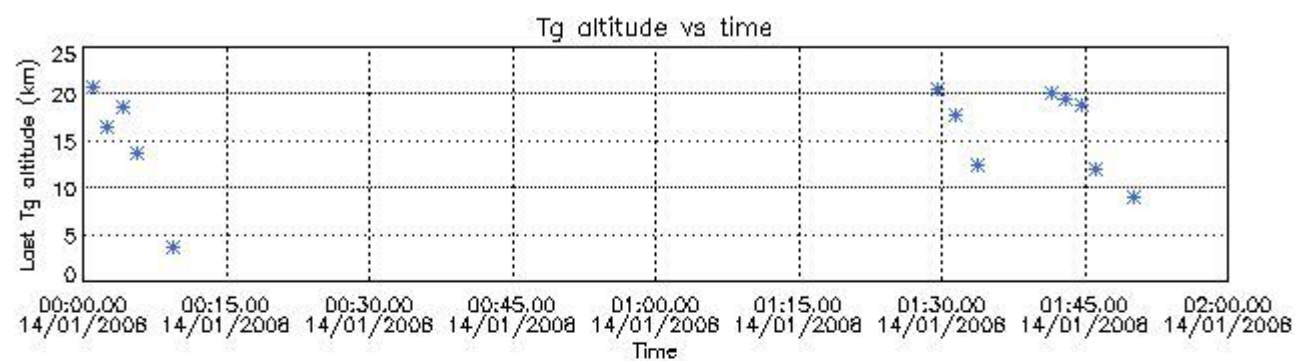
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.615	17.075	NaN
St. deviation:	5.2255	7.2141	NaN
Maximum:	20.830	26.374	NaN
Minimum:	3.5777	3.4758	NaN
Number of data:	13.000	20.000	NaN

### 6.2 Plot for DARK limb products

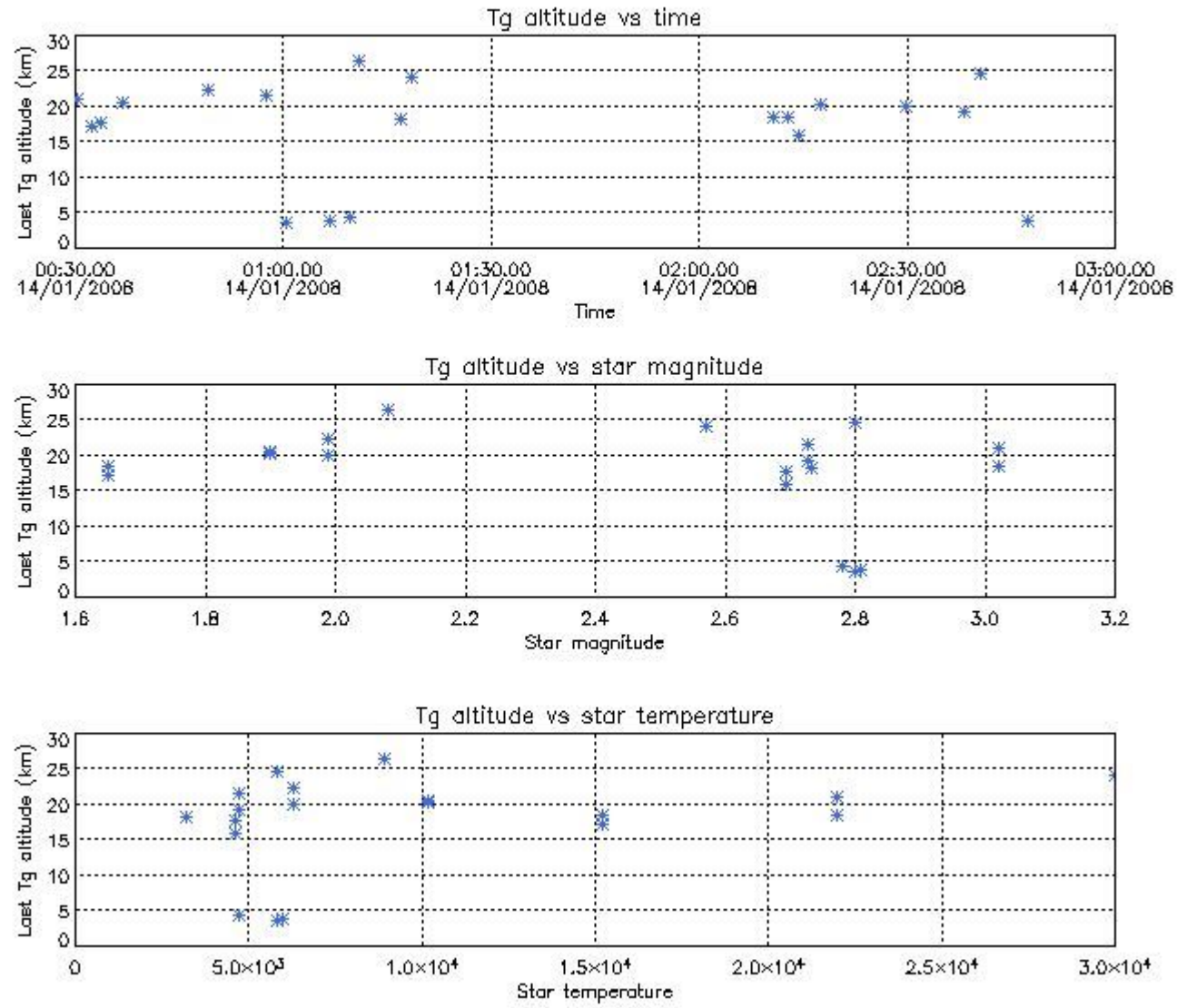
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost

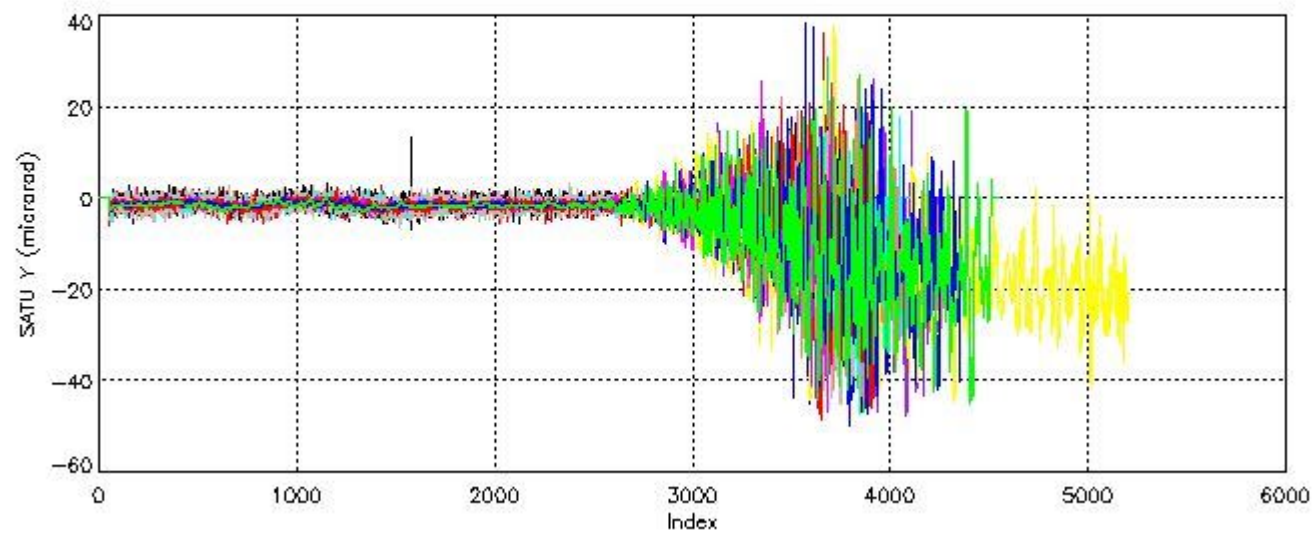
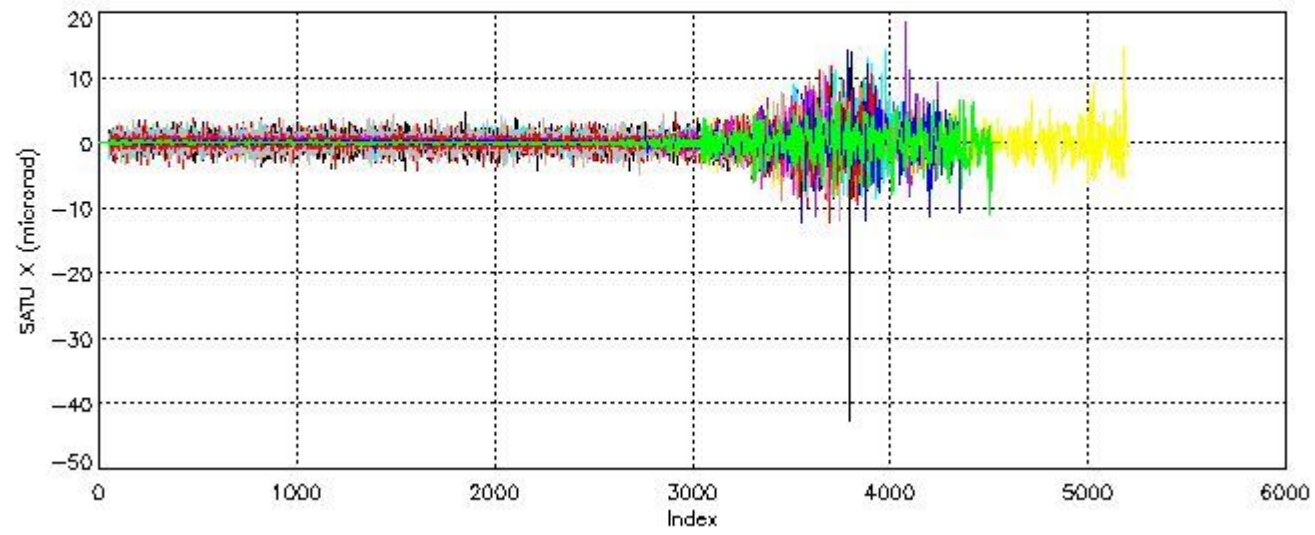


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.077644	-1.4144	0.043139	-1.3829
St. deviation:	0.54610	0.84228	0.76073	1.0581
Maximum:	3.8000	2.8000	6.9000	3.5000
Minimum:	-3.8000	-5.9000	-4.8000	-6.9000

Number of data:	11550.	11550.	16450.	16450.
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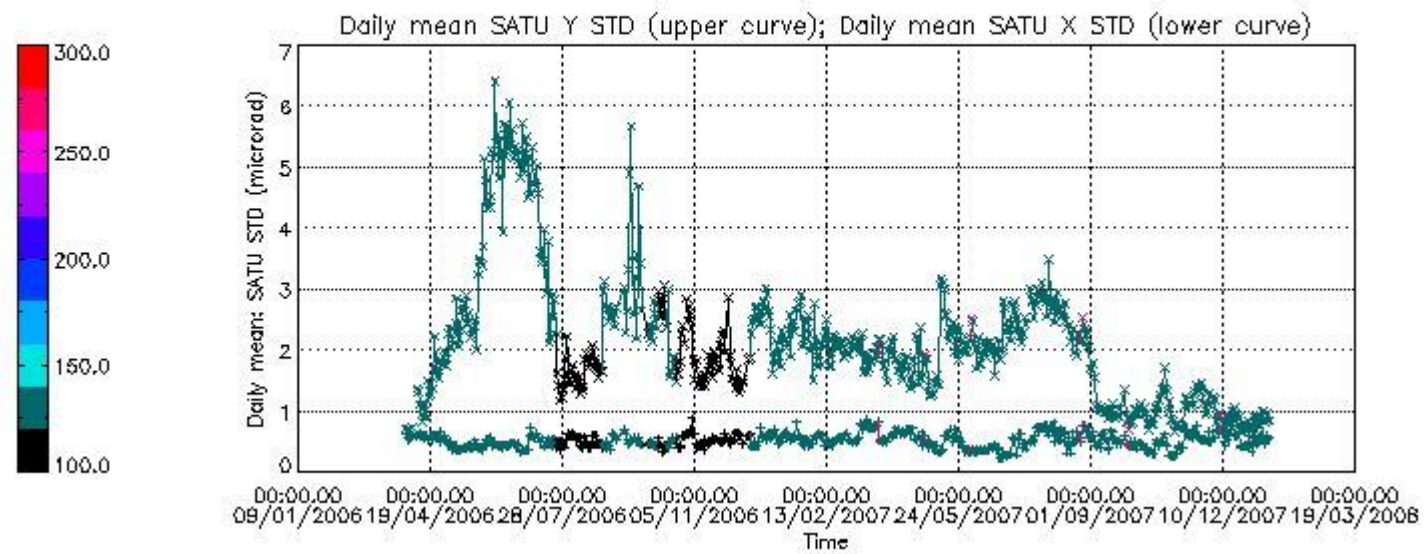
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

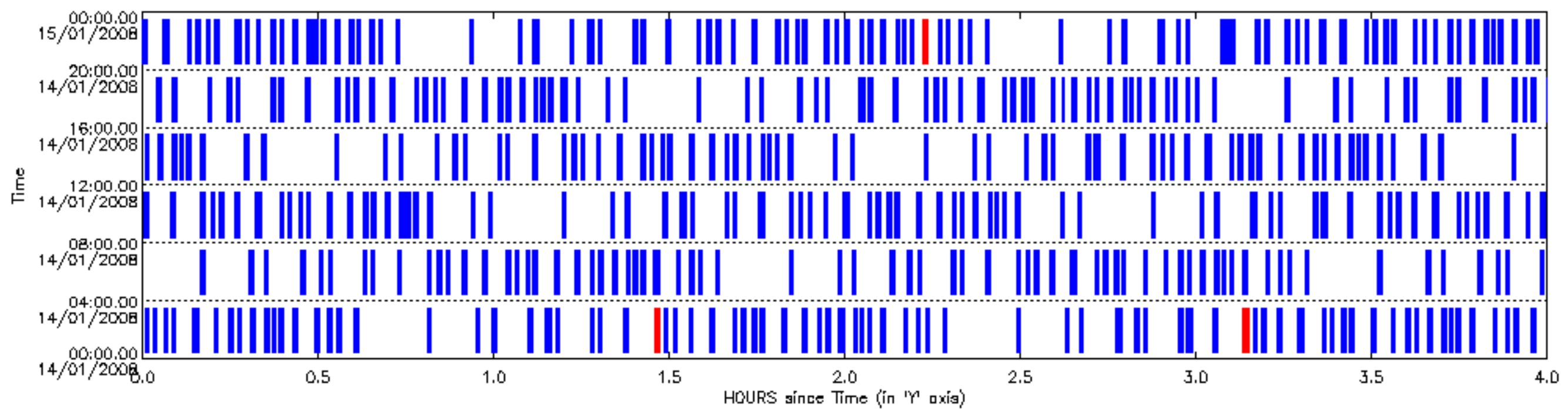


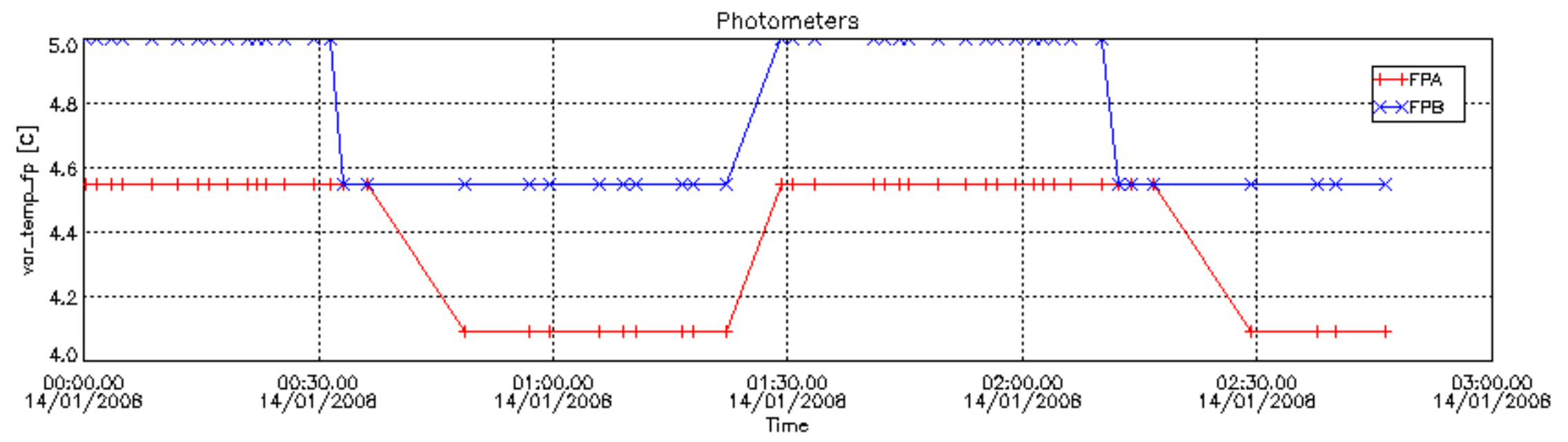
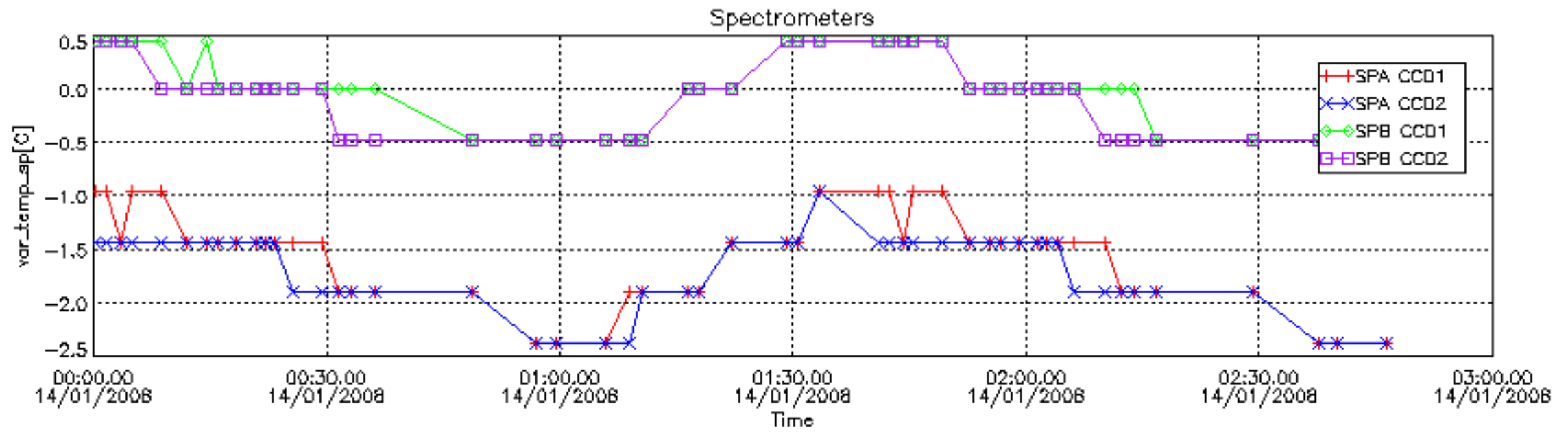
### 8. Auxiliary Data Files used for the production reported in section 2.4

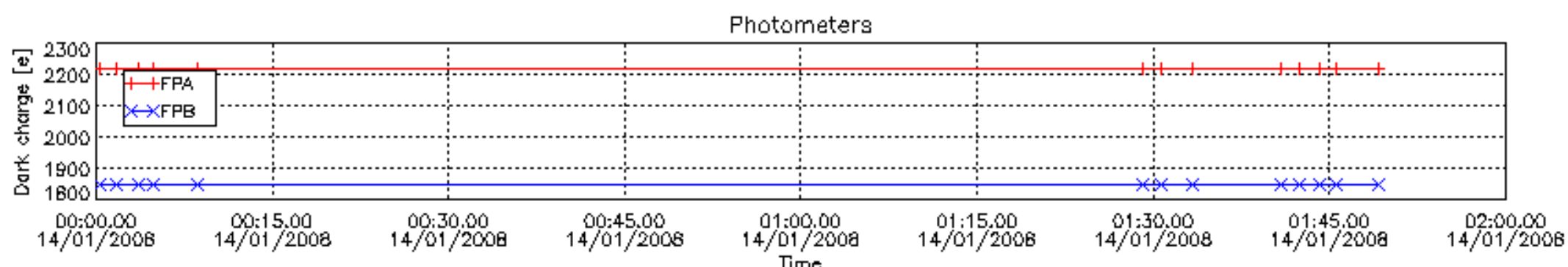
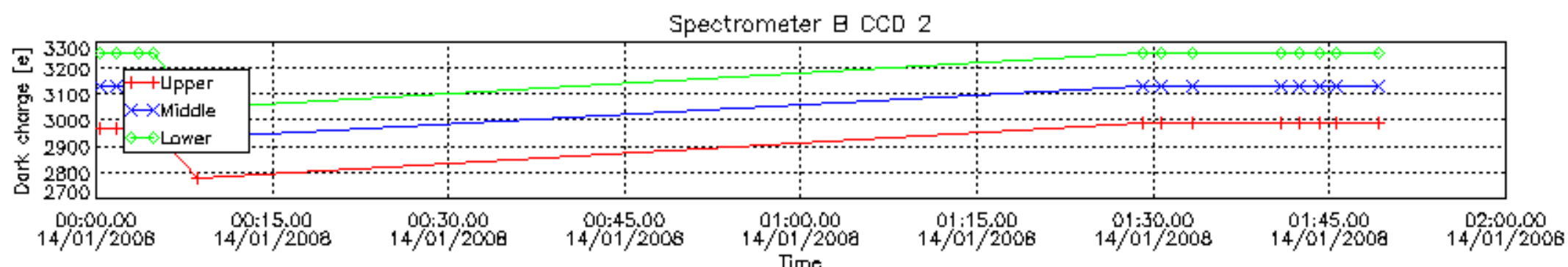
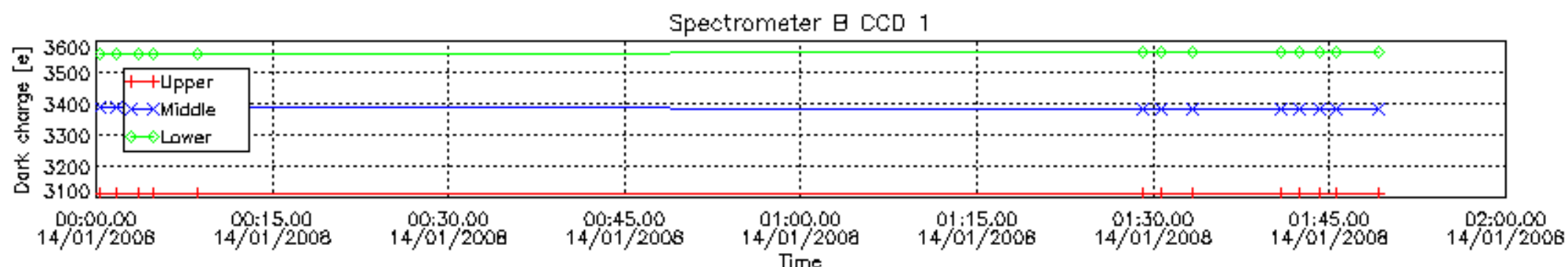
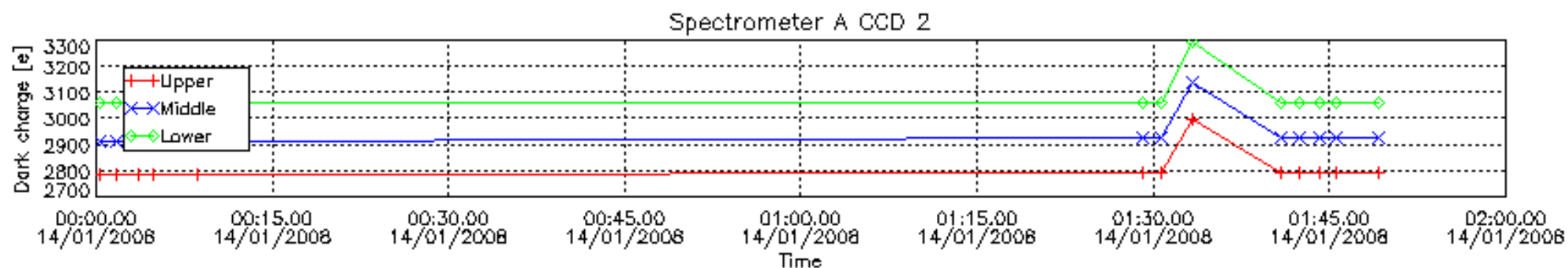
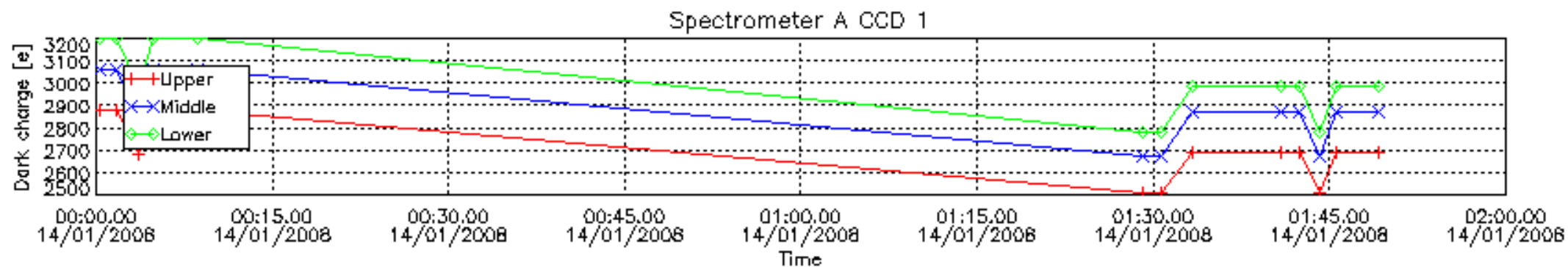
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	14-JAN-2008 00:00:18
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080109_125406_20080107_000000_20100101_000000	1	14-JAN-2008 00:00:18
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	14-JAN-2008 00:00:18
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	14-JAN-2008 00:00:18
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	14-JAN-2008 00:00:18
ECMWF_FILE	AUX_ECF_AXNECM20080113_073111_20080113_210000_20080114_090000	1	14-JAN-2008 00:00:18
OPTIONAL_ECMWF_FILE	MISSING	1	14-JAN-2008 00:00:18
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080113_215518_000057382065_00086_30701_4944.N1	1	14-JAN-2008 00:00:18
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080113_233615_000057382065_00087_30702_4945.N1	26	14-JAN-2008 01:22:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080114_011712_000041442065_00088_30703_4946.N1	48	14-JAN-2008 02:37:35

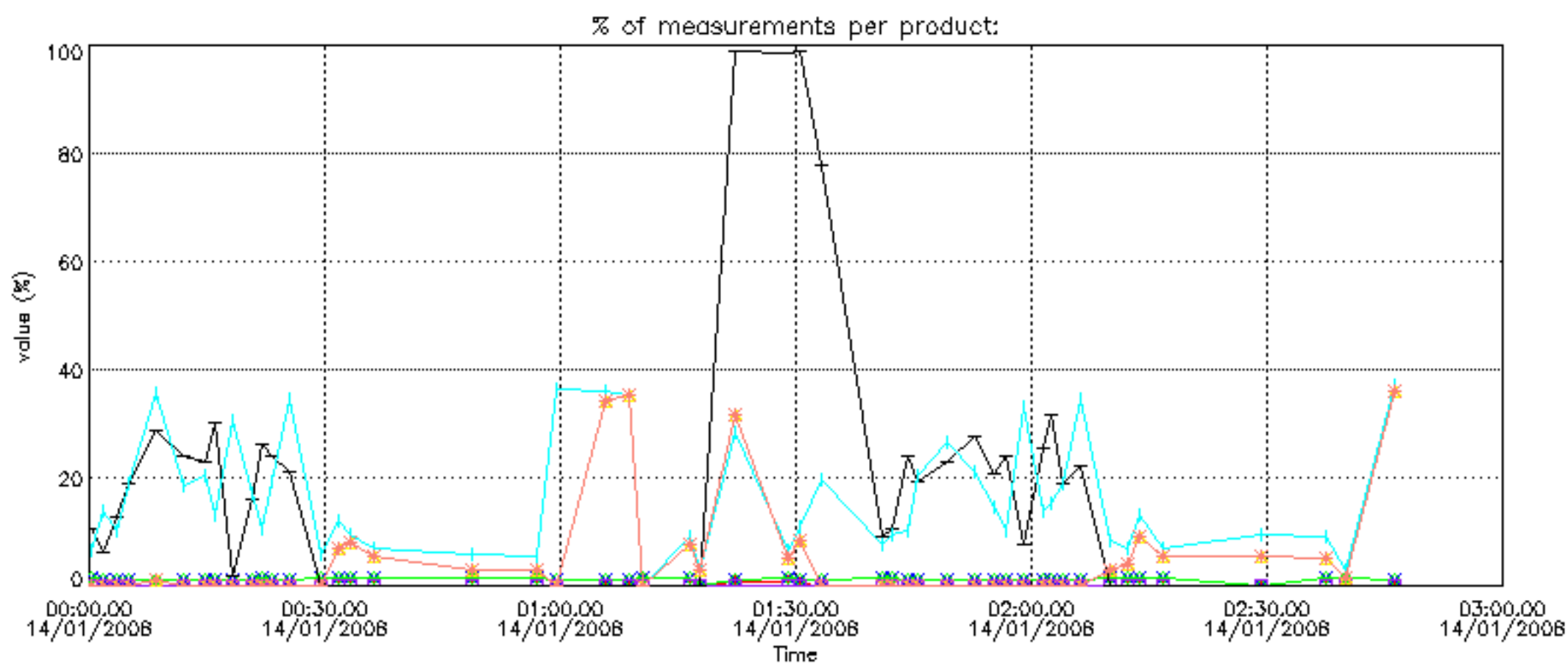




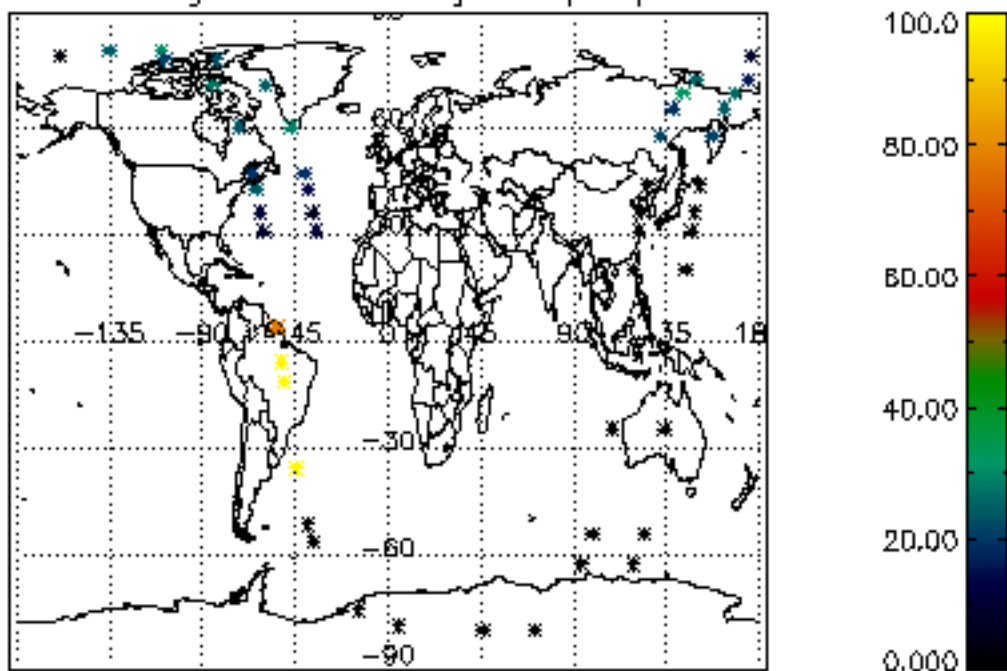




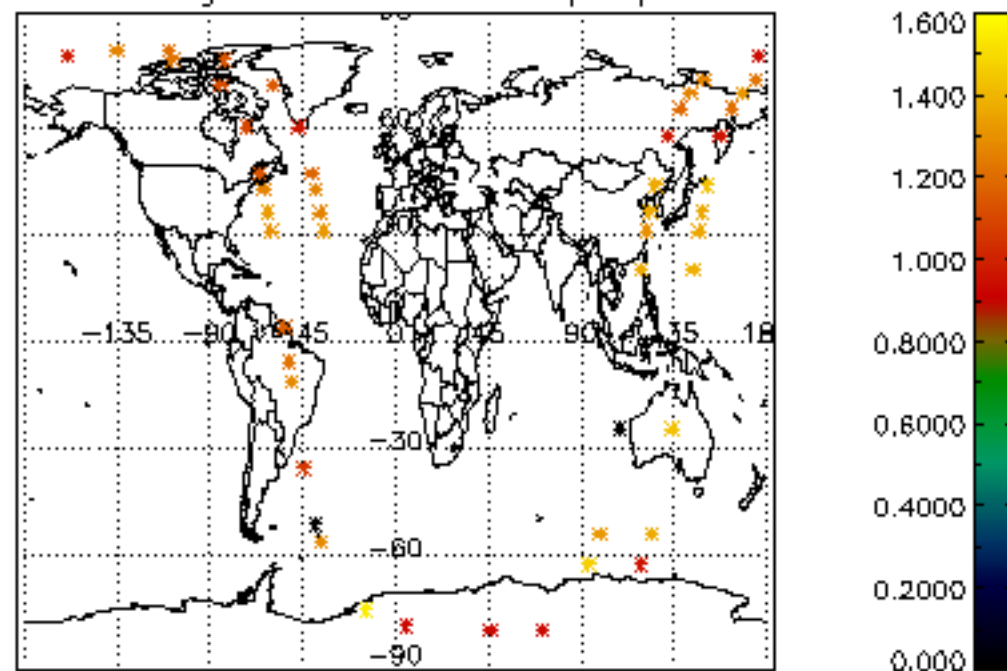




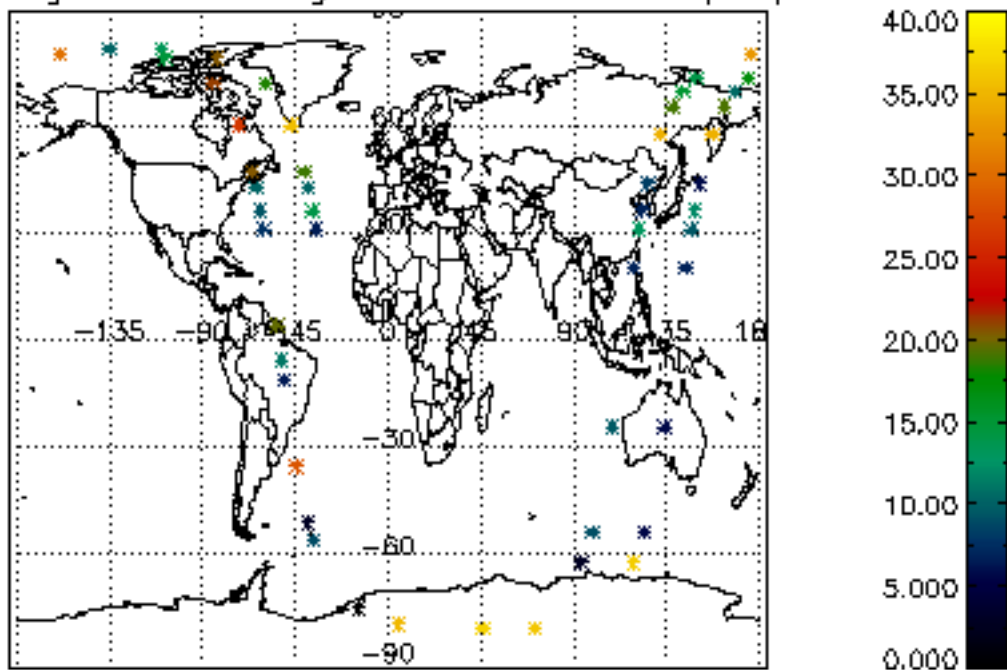
Percentage of cosmic ray hits per profile



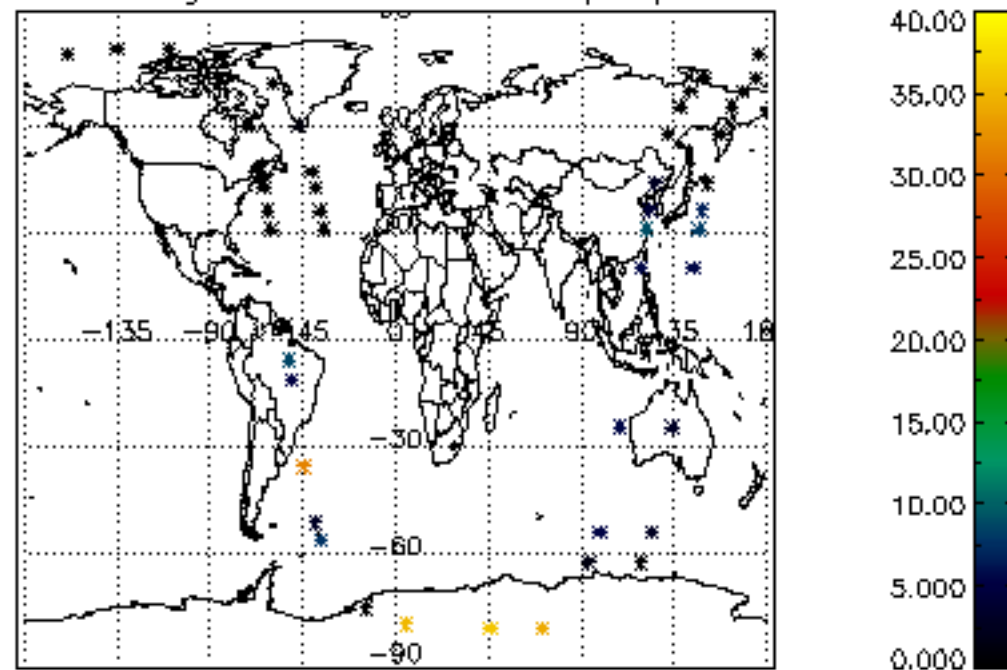
Percentage of datation errors per profile



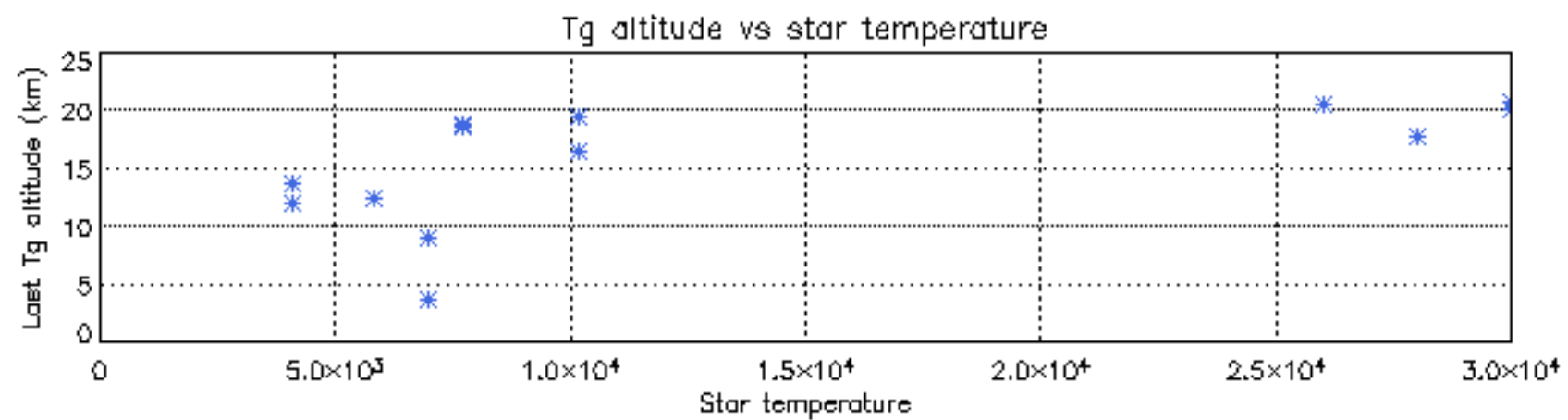
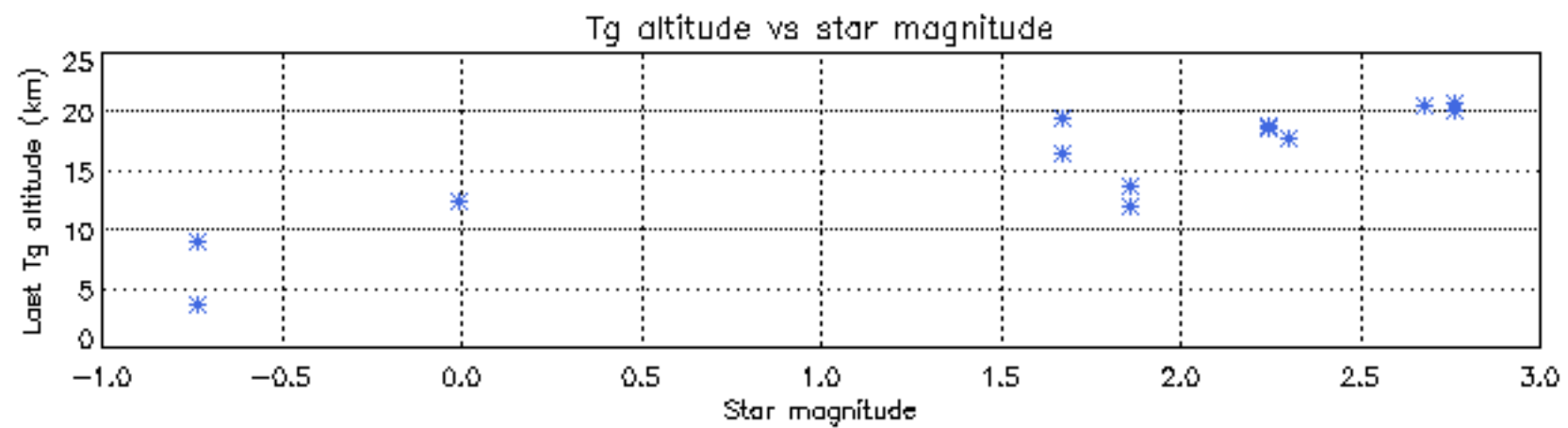
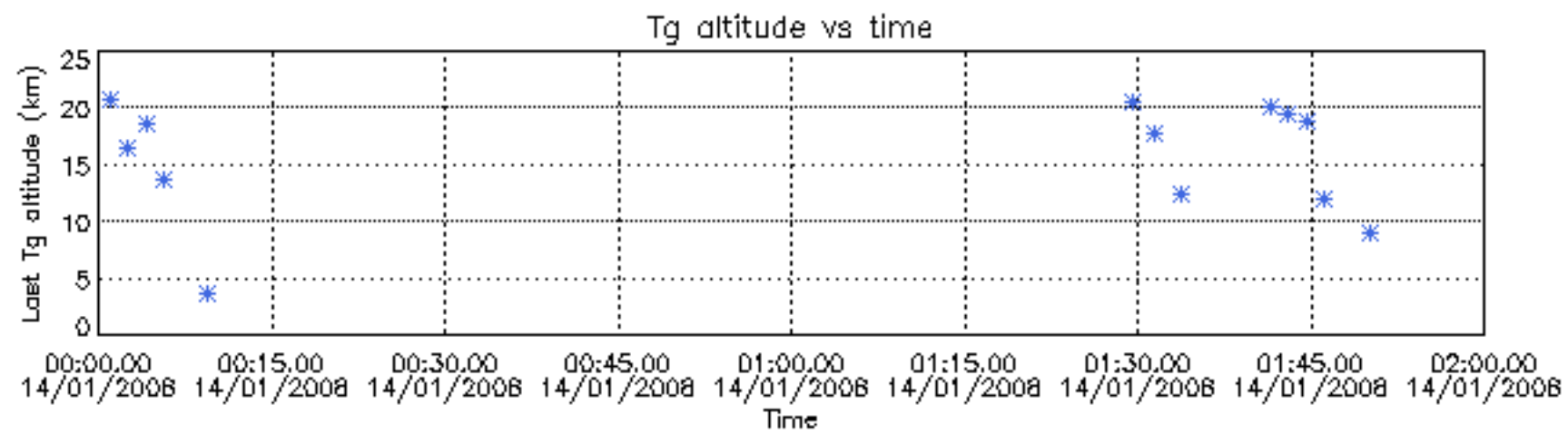
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

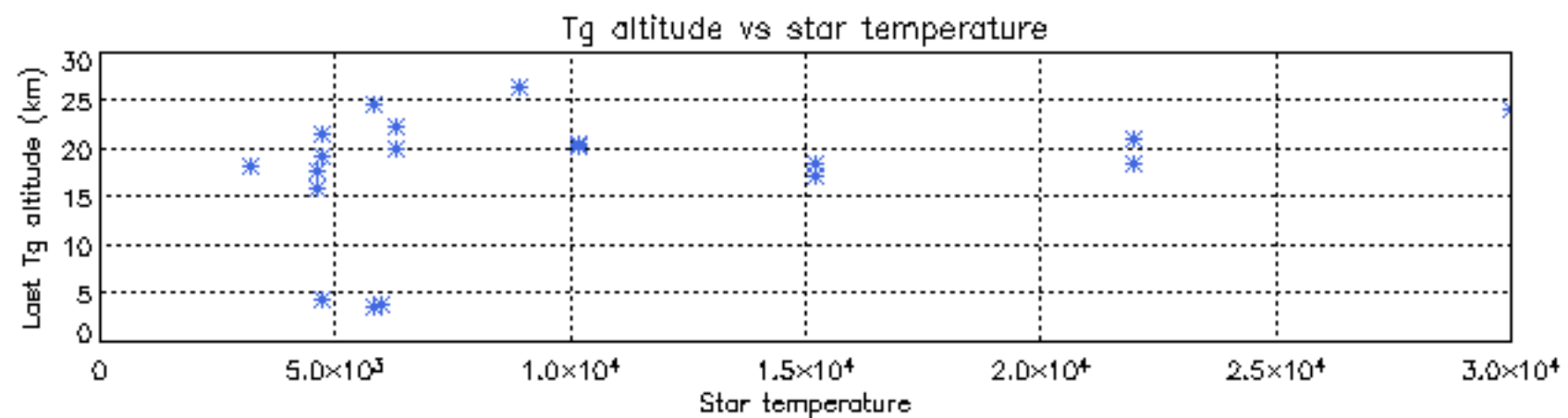
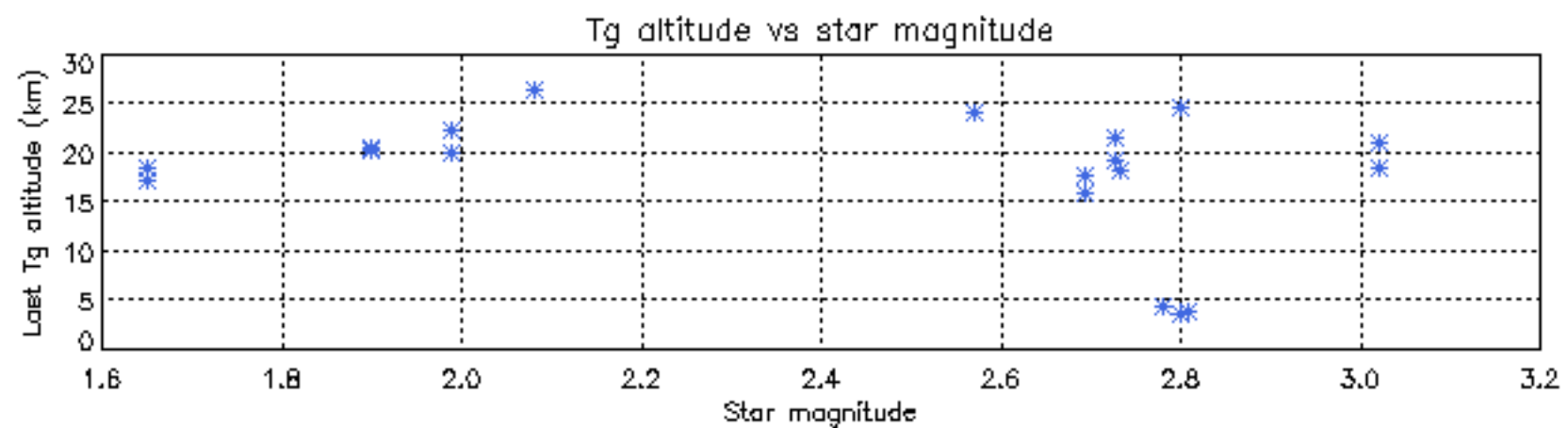
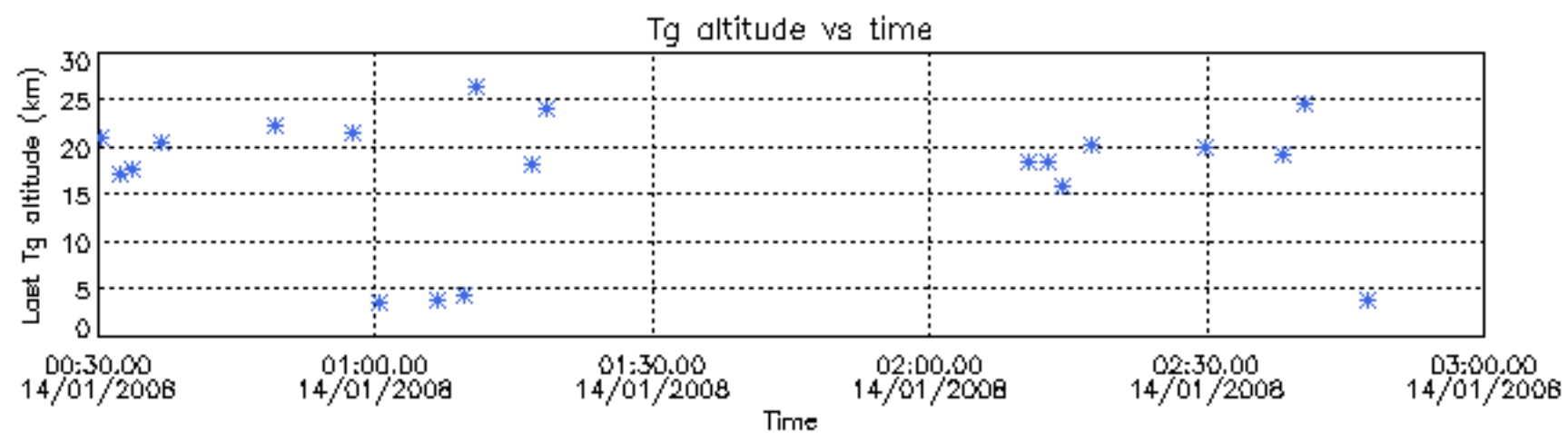


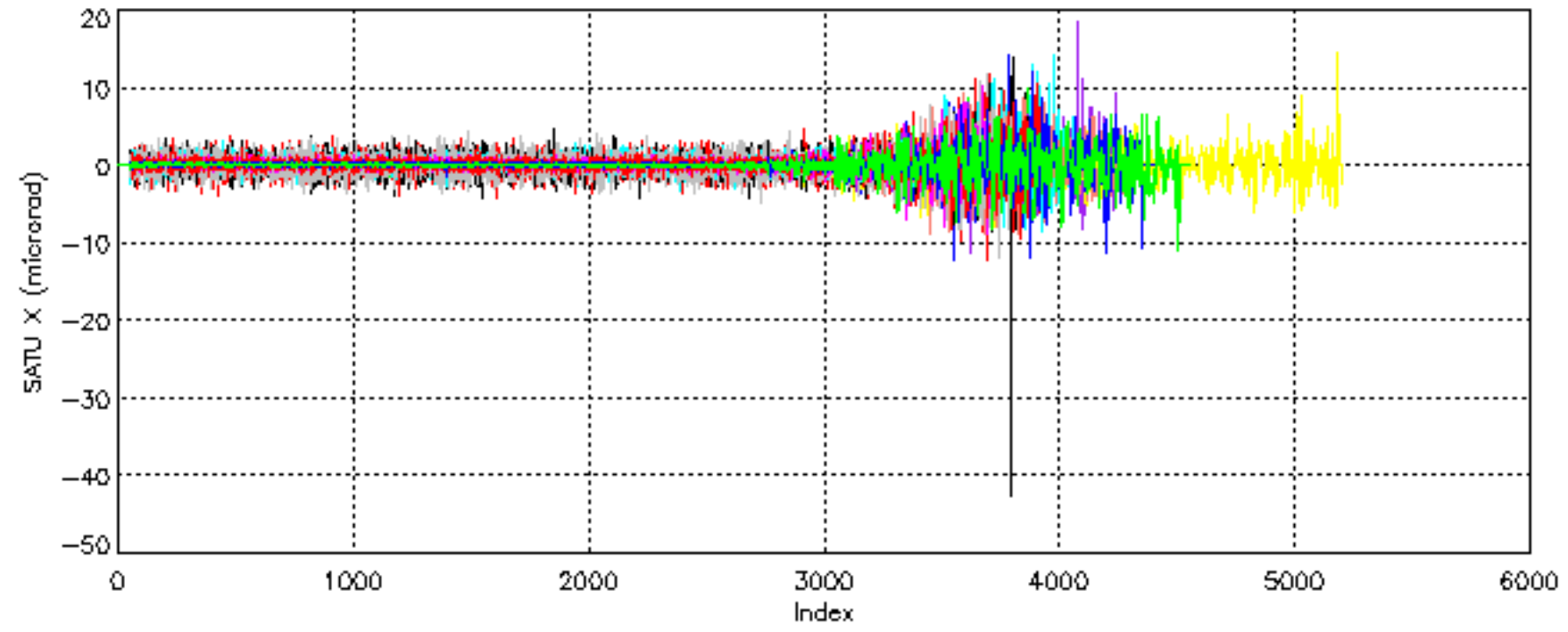
Tangent altitude at which the star is lost

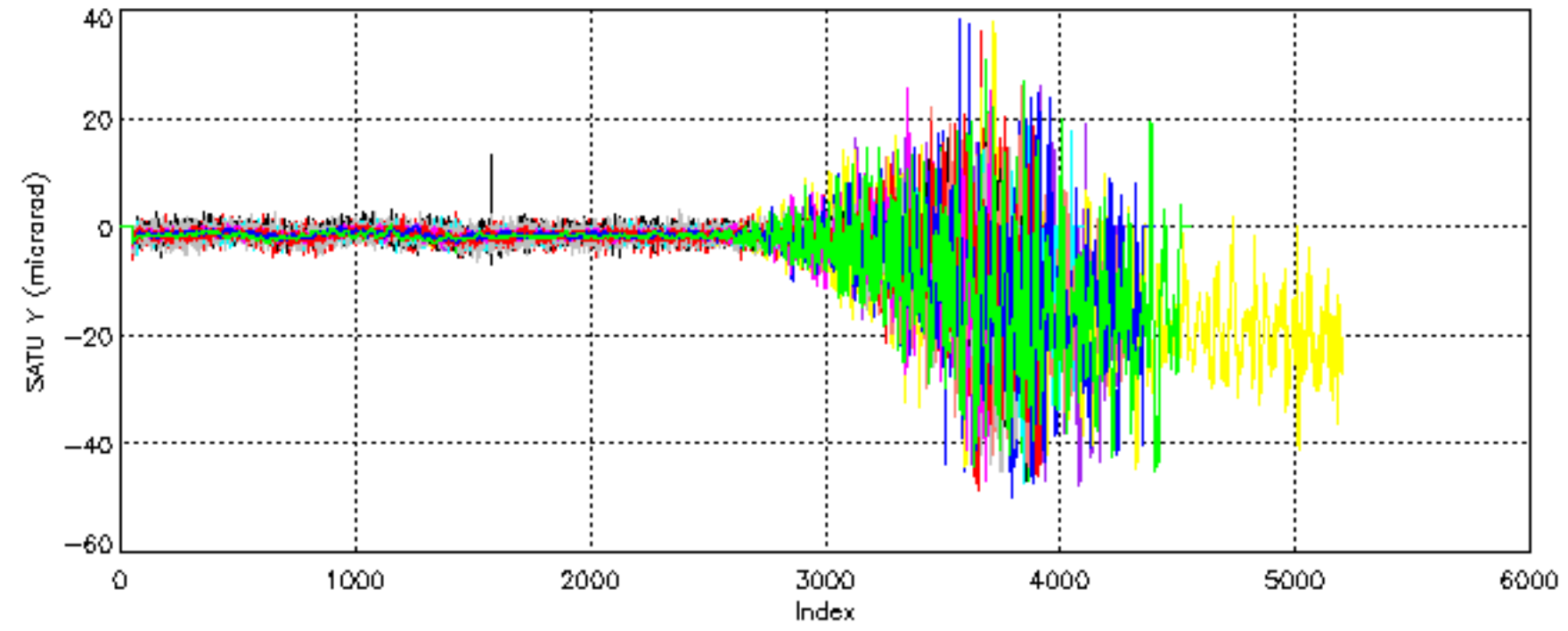




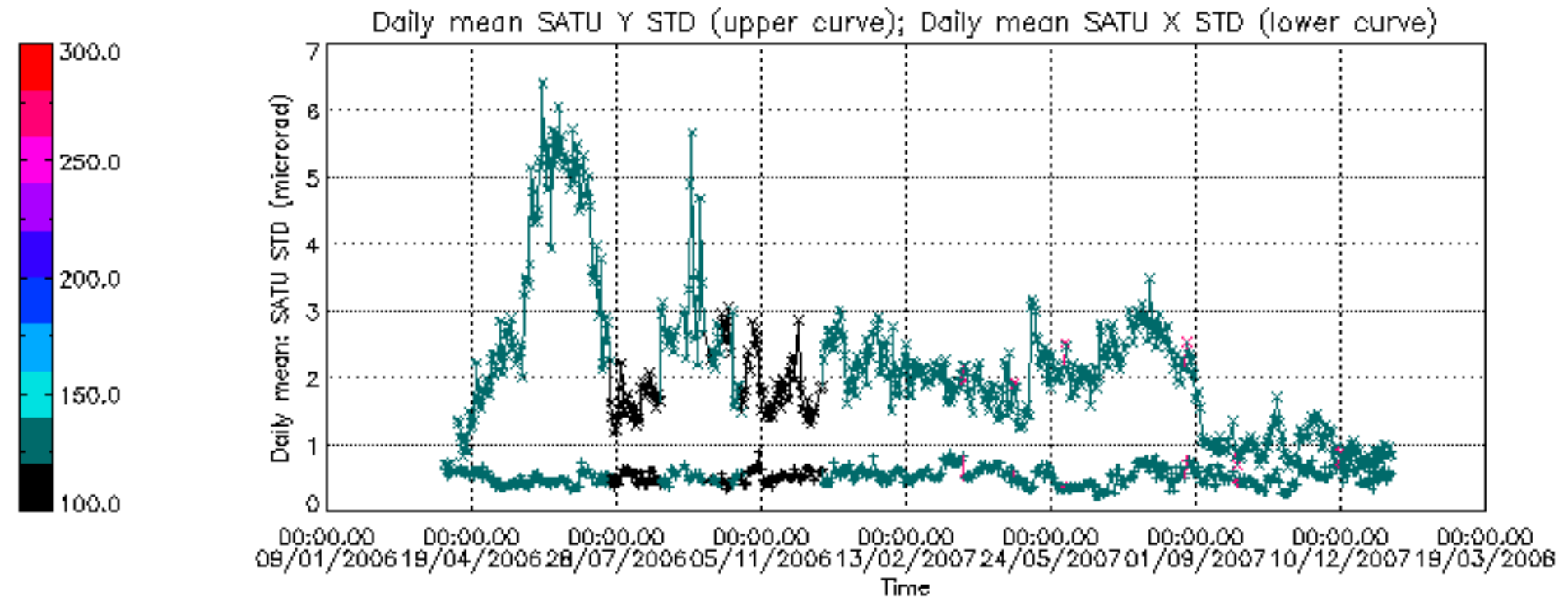
Tangent altitude at which the star is lost











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 4; 226.4; 01-JAN-2008 01:44:36; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;30518  
 5; 397.9; 01-JAN-2008 01:47:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30518  
 6; 545.2; 01-JAN-2008 01:49:54; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;30518  
 7; 627.3; 01-JAN-2008 01:51:16; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30518  
 8; 723.1; 01-JAN-2008 01:52:52; Dark ; 52.0; 41; Eps Car ; 1.86; 4100;occ; 104; 0;30518  
 9; 977.3; 01-JAN-2008 01:57:06; Dark ; 44.5; 2; Alp Car ;-0.74; 7000;occ; 89; 0;30518  
 10; 1319.6; 01-JAN-2008 02:02:49; Dark ; 40.0; 108; Alp Col ; 2.65; 15200;occ; 80; 0;30518  
 11; 1568.7; 01-JAN-2008 02:06:58; Dark ; 45.0; 47; 2Bet CMA ; 1.98; 28000;occ; 90; 0;30518  
 12; 1769.0; 01-JAN-2008 02:10:18; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;30518  
 13; 1881.1; 01-JAN-2008 02:12:10; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;30518  
 14; 2033.3; 01-JAN-2008 02:14:42; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;30518  
 15; 2200.2; 01-JAN-2008 02:17:29; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;30518  
 16; 2398.1; 01-JAN-2008 02:20:47; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30518  
 17; 2472.5; 01-JAN-2008 02:22:02; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30518  
 18; 2611.4; 01-JAN-2008 02:24:20; Bright; 35.5; 149; 45Eps Per ; 2.89; 30000;occ; 71; 0;30518  
 19; 2693.4; 01-JAN-2008 02:25:42; Bright; 42.5; 6; 13Alp Aur ; 0.08; 3400;occ; 85; 0;30518  
 20; 3423.3; 01-JAN-2008 02:37:52; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30518

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 9; -685.7; 01-JAN-2008 03:09:59; Dark ; 42.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 84; 0;30518  
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 15; 398.2; 01-JAN-2008 03:28:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30519  
 16; 545.7; 01-JAN-2008 03:30:31; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30519  
 17; 627.8; 01-JAN-2008 03:31:53; Dark ; 44.0; 71; Iot Car ; 2.25; 7700;occ; 88; 0;30519  
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 25; 2200.5; 01-JAN-2008 03:58:05; Dark ; 46.5; 13; 87Alp Tau ; 0.87; 3800;occ; 93; 0;30519  
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 9; -685.1; 01-JAN-2008 04:50:36; Dark ; 45.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 91; 0;30519  
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3;-1988.1; 01-JAN-2008 06:09:29; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;30520
4;-1614.5; 01-JAN-2008 06:15:42; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;30520
5;-1490.7; 01-JAN-2008 06:17:46; Bright; 55.0; 67; 5Alp CrB ; 2.22; 11000;occ; 110; 0;30520
6;-1146.4; 01-JAN-2008 06:23:31; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;30520
7;-1006.9; 01-JAN-2008 06:25:50; Bright; 33.0; 120; 1Del Oph ; 2.73; 3200;occ; 66; 0;30520
8;-843.1; 01-JAN-2008 06:28:34; Bright; 38.5; 104; 27Bet Lib ; 2.61; 13100;occ; 77; 0;30520
9;-684.5; 01-JAN-2008 06:31:13; Dark ; 46.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 93; 0;30520
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12; -193.5; 01-JAN-2008 06:39:24; Dark ; 41.0; 78; Alp Lup ; 2.30; 28000;occ; 82; 0;30520
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16; 398.8; 01-JAN-2008 06:49:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30521
17; 546.3; 01-JAN-2008 06:51:43; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30521
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22; 1569.3; 01-JAN-2008 07:08:46; Dark ; 42.0; 47; 2Bet CMA ; 1.98; 28000;occ; 84; 0;30521
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8; 2693.2; 01-JAN-2008 07:27:30; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;30521
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27; 6767.9; 02-JAN-2008 11:25:00; Dark ; 50.5; 41; Eps Car ; 1.86; 4100;occ; 101; 0;30537
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12; 4051.1; 02-JAN-2008 12:20:19; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;30538
13; 4424.4; 02-JAN-2008 12:26:32; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;30538

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 27; 6768.4; 02-JAN-2008 13:05:36; Dark ; 41.0; 41; Eps Car ; 1.86; 4100;occ; 82; 0;30538  
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16; 4427.4; 03-JAN-2008 21:58:34; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;30558
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 9; 3423.7; 03-JAN-2008 11:38:14; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;30552
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 8; 2691.0; 03-JAN-2008 13:06:38; Bright; 38.5; 6; 13Alp Aur ; 0.08; 3400;occ; 77; 0;30553
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16; 5208.2; 03-JAN-2008 13:48:35; Bright; 40.0; 104; 27Bet Lib ; 2.61; 13100;occ; 80; 0;30553
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 17; 5037.8; 03-JAN-2008 17:06:56; Bright; 35.0; 120; 1Del Oph ; 2.73; 3200;occ; 70; 0;30555  
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 19; 5687.2; 03-JAN-2008 17:17:46; Dark ; 36.0; 131; Gam Lup ; 2.80; 26000;occ; 72; 0;30555  
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 22; 5952.8; 03-JAN-2008 17:22:11; Dark ; 39.0; 95; Zet Cen ; 2.55; 26000;occ; 78; 0;30555  
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27; 3923.8; 04-JAN-2008 22:59:09; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;30573
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25; 6447.8; 04-JAN-2008 10:16:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30565  
26; 6598.4; 04-JAN-2008 10:18:56; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;30565  
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17; 5041.0; 04-JAN-2008 13:14:11; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;30567
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6; -75.4; 04-JAN-2008 13:29:30; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;30567
7; 13.9; 04-JAN-2008 13:30:59; Dark ; 46.0; 4; Alp1Cen ; -0.01; 5800;occ; 92; 0;30568
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10; 563.3; 04-JAN-2008 13:40:09; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30568
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13; 990.3; 04-JAN-2008 13:47:16; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;30568
14; 1188.4; 04-JAN-2008 13:50:34; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;30568
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33; 7225.1; 04-JAN-2008 17:11:47; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;30569

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13; 3686.1; 04-JAN-2008 17:53:24; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;30570  
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15; 4056.5; 04-JAN-2008 17:59:34; Bright; 52.0; 130; 23Bet Dra ; 2.80; 5800;occ; 104; 0;30570  
16; 4429.6; 04-JAN-2008 18:05:47; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;30570  
17; 4554.8; 04-JAN-2008 18:07:52; Bright; 56.0; 67; 5Alp CrB ; 2.22; 11000;occ; 112; 0;30570  
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21; 5315.7; 04-JAN-2008 18:20:33; Bright; 48.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 97; 0;30570  
22; 5692.2; 04-JAN-2008 18:26:50; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30570  
23; 5776.9; 04-JAN-2008 18:28:14; Dark ; 37.0; 109; Bet Lup ; 2.68; 26000;occ; 74; 0;30570  
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27; 6289.9; 04-JAN-2008 18:36:47; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30570  
28; 6449.4; 04-JAN-2008 18:39:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30570  
29; 6600.3; 04-JAN-2008 18:41:58; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;30570  
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22; 5316.0; 04-JAN-2008 20:01:10; Bright; 36.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 72; 0;30571  
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13; 1354.3; 05-JAN-2008 01:37:31; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;30575
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19; 2395.3; 05-JAN-2008 01:54:52; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30575
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23; 3423.7; 05-JAN-2008 02:12:01; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;30575
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3; -1978.4; 05-JAN-2008 05:43:47; Bright; 33.0; 130; 23Bet Dra ; 2.80; 5800;occ; 66; 0;30577
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19; 659.2; 05-JAN-2008 06:27:44; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30578
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21; 992.7; 05-JAN-2008 06:33:18; Dark ; 43.0; 2; Alp Car ; -0.74; 7000;occ; 86; 0;30578
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23; 1355.3; 05-JAN-2008 06:39:20; Dark ; 45.0; 23; 21Eps CMA ; 1.50; 26000;occ; 90; 0;30578
24; 1577.3; 05-JAN-2008 06:43:02; Dark ; 43.5; 47; 2Bet CMA ; 1.98; 28000;occ; 87; 0;30578
25; 1777.5; 05-JAN-2008 06:46:23; Dark ; 41.5; 7; 19Bet Ori ; 0.10; 14000;occ; 83; 0;30578
26; 1885.7; 05-JAN-2008 06:48:11; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;30578
27; 2031.4; 05-JAN-2008 06:50:36; Dark ; 46.5; 14; 58Alp Ori ; 0.87; 3000;occ; 93; 0;30578
28; 2268.3; 05-JAN-2008 06:54:33; Bright; 36.5; 176; 23Zet Tau ; 3.02; 22000;occ; 73; 0;30578
29; 2395.2; 05-JAN-2008 06:56:40; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;30578
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33; 3423.8; 05-JAN-2008 07:13:49; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30578
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6; 1886.4; 05-JAN-2008 20:12:59; Dark ; 39.0; 30; 46Eps Ori ; 1.69; 30000;occ; 78; 0;30586
7; 2031.2; 05-JAN-2008 20:15:24; Dark ; 52.5; 14; 58Alp Ori ; 0.87; 3000;occ; 105; 0;30586
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9; 2394.9; 05-JAN-2008 20:21:27; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30586
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12; 2689.5; 05-JAN-2008 20:26:22; Bright; 38.0; 6; 13Alp Aur ; 0.08; 3400;occ; 76; 0;30586

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 15; 3924.1; 05-JAN-2008 20:46:57; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30586  
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 18; 1886.4; 05-JAN-2008 21:53:35; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;30587  
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 21; 2394.8; 05-JAN-2008 22:02:03; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30587  
 22; 2476.2; 05-JAN-2008 22:03:25; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30587  
 23; 2553.9; 05-JAN-2008 22:04:42; Bright; 36.5; 107; 37The Aur ; 2.65; 11000;occ; 73; 0;30587  
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 25; 3423.8; 05-JAN-2008 22:19:12; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;30587  
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 27; 3924.2; 05-JAN-2008 22:27:33; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30587  
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 29; 4431.8; 05-JAN-2008 22:36:00; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 0;30587  
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 33; 5372.6; 05-JAN-2008 22:51:41; Dark ; 42.0; 80; 7Del Sco ; 2.32; 30000;occ; 84; 0;30587

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 3; -1978.3; 05-JAN-2008 07:24:23; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;30578  
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 4; 660.2; 05-JAN-2008 09:48:57; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30580  
 5; 750.0; 05-JAN-2008 09:50:27; Dark ; 48.0; 41; Eps Car ; 1.86; 4100;occ; 96; 0;30580  
 6; 993.1; 05-JAN-2008 09:54:30; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;30580  
 7; 1192.4; 05-JAN-2008 09:57:49; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;30580  
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 21; 5781.7; 05-JAN-2008 11:14:19; Dark ; 37.5; 109; Bet Lup ; 2.68; 26000;occ; 75; 0;30580  
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 5; -1126.9; 05-JAN-2008 12:40:22; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;30581  
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 4; -253.7; 05-JAN-2008 12:54:55; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;30581  
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 7; 2475.9; 05-JAN-2008 13:40:25; Bright; 36.0; 114; 3Iot Aur ; 2.69; 4600;occ; 72; 0;30582
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22; 6060.3; 06-JAN-2008 15:49:08; Dark ; 48.5; 4; Alp1Cen ;-0.01; 5800;occ; 97; 0;30597
23; 6304.2; 06-JAN-2008 15:53:12; Dark ; 45.5; 12; Alp1Cru ; 0.77; 30000;occ; 91; 0;30597
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 27; 6793.5; 06-JAN-2008 16:01:21; Dark ; 51.5; 41; Eps Car ; 1.86; 4100;occ; 103; 0;30597  
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 6; 2268.0; 06-JAN-2008 16:26:32; Bright; 36.5; 176; 23Zet Tau ; 3.02; 22000;occ; 73; 0;30598  
 7; 2395.1; 06-JAN-2008 16:28:39; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;30598  
 8; 2477.3; 06-JAN-2008 16:30:01; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30598  
 9; 2689.5; 06-JAN-2008 16:33:33; Bright; 37.0; 6; 13Alp Aur ; 0.08; 3400;occ; 74; 0;30598  
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 11; 3682.9; 06-JAN-2008 16:50:06; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;30598  
 12; 3924.5; 06-JAN-2008 16:54:08; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;30598  
 13; 4060.9; 06-JAN-2008 16:56:24; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;30598  
 14; 4433.9; 06-JAN-2008 17:02:37; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;30598  
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 17; 5050.0; 06-JAN-2008 17:12:54; Bright; 35.0; 120; 1Del Oph ; 2.73; 3200;occ; 70; 0;30598  
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 22; 6060.7; 06-JAN-2008 17:29:44; Dark ; 53.0; 4; Alp1Cen ; -0.01; 5800;occ; 106; 0;30598  
 23; 6304.6; 06-JAN-2008 17:33:48; Dark ; 49.5; 12; Alp1Cru ; 0.77; 30000;occ; 99; 0;30598  
 24; 6457.5; 06-JAN-2008 17:36:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30598  
 25; 6610.0; 06-JAN-2008 17:38:54; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;30598  
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 3; 1360.4; 06-JAN-2008 17:52:00; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;30599  
 4; 1580.2; 06-JAN-2008 17:55:40; Dark ; 41.5; 47; 2Bet CMA ; 1.98; 28000;occ; 83; 0;30599  
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 6; 1887.6; 06-JAN-2008 18:00:47; Dark ; 39.5; 30; 46Eps Ori ; 1.69; 30000;occ; 79; 0;30599  
 7; 2031.3; 06-JAN-2008 18:03:11; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;30599  
 8; 2267.8; 06-JAN-2008 18:07:07; Bright; 36.5; 176; 23Zet Tau ; 3.02; 22000;occ; 73; 0;30599  
 9; 2395.1; 06-JAN-2008 18:09:15; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;30599  
 10; 2477.4; 06-JAN-2008 18:10:37; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30599  
 11; 2689.5; 06-JAN-2008 18:14:09; Bright; 41.0; 6; 13Alp Aur ; 0.08; 3400;occ; 82; 0;30599  
 12; 3424.0; 06-JAN-2008 18:26:24; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30599  
 13; 3682.7; 06-JAN-2008 18:30:42; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;30599  
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 15; 4060.9; 06-JAN-2008 18:37:00; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;30599  
 16; 4434.0; 06-JAN-2008 18:43:14; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;30599  
 17; 4612.4; 06-JAN-2008 18:46:12; Bright; 52.0; 127; 27Bet Her ; 2.78; 4700;occ; 104; 0;30599  
 18; 4915.2; 06-JAN-2008 18:51:15; Bright; 38.5; 102; 24Alp Ser ; 2.60; 4250;occ; 77; 0;30599  
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 22; 5791.4; 06-JAN-2008 19:05:51; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;30599  
 23; 5881.1; 06-JAN-2008 19:07:21; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;30599  
 24; 6061.1; 06-JAN-2008 19:10:21; Dark ; 45.0; 4; Alp1Cen ; -0.01; 5800;occ; 90; 0;30599  
 25; 6305.1; 06-JAN-2008 19:14:25; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30599  
 26; 6457.7; 06-JAN-2008 19:16:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30599  
 27; 6610.3; 06-JAN-2008 19:19:30; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;30599  
 28; 6706.4; 06-JAN-2008 19:21:06; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30599  
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4; 1580.4; 06-JAN-2008 19:36:16; Dark ; 40.5; 47; 2Bet CMa ; 1.98; 28000;occ; 81; 0;30600
5; 1780.9; 06-JAN-2008 19:39:36; Dark ; 50.0; 7; 19Bet Ori ; 0.10; 14000;occ; 100; 0;30600
6; 1887.7; 06-JAN-2008 19:41:23; Dark ; 38.0; 30; 46Eps Ori ; 1.69; 30000;occ; 76; 0;30600
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9; 2395.0; 06-JAN-2008 19:49:51; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30600
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11; 2689.4; 06-JAN-2008 19:54:45; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30600
12; 3424.0; 06-JAN-2008 20:07:00; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;30600
13; 3682.6; 06-JAN-2008 20:11:18; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;30600
14; 3924.4; 06-JAN-2008 20:15:20; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30600
15; 4061.1; 06-JAN-2008 20:17:37; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;30600
16; 4434.1; 06-JAN-2008 20:23:50; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;30600
17; 4612.7; 06-JAN-2008 20:26:48; Bright; 34.0; 127; 27Bet Her ; 2.78; 4700;occ; 68; 0;30600
18; 4915.5; 06-JAN-2008 20:31:51; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;30600
19; 5050.4; 06-JAN-2008 20:34:06; Bright; 42.5; 120; 1Del Oph ; 2.73; 3200;occ; 85; 0;30600
20; 5377.3; 06-JAN-2008 20:39:33; Dark ; 42.0; 80; 7Del Sco ; 2.32; 30000;occ; 84; 0;30600
21; 5703.2; 06-JAN-2008 20:44:59; Dark ; 35.5; 131; Gam Lup ; 2.80; 26000;occ; 71; 0;30600
22; 5791.8; 06-JAN-2008 20:46:27; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30600
23; 5881.4; 06-JAN-2008 20:47:57; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;30600
24; 6305.6; 06-JAN-2008 20:55:01; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;30600
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3; -243.6; 06-JAN-2008 22:27:04; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;30601
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5; 270.2; 06-JAN-2008 22:35:38; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30602
6; 422.3; 06-JAN-2008 22:38:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30602
7; 574.9; 06-JAN-2008 22:40:42; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30602
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13; 1580.6; 06-JAN-2008 22:57:28; Dark ; 44.0; 47; 2Bet CMa ; 1.98; 28000;occ; 88; 0;30602
14; 1781.2; 06-JAN-2008 23:00:49; Dark ; 42.5; 7; 19Bet Ori ; 0.10; 14000;occ; 85; 0;30602
15; 1887.8; 06-JAN-2008 23:02:35; Dark ; 40.5; 30; 46Eps Ori ; 1.69; 30000;occ; 81; 0;30602
16; 2031.3; 06-JAN-2008 23:04:59; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;30602
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19; 2477.7; 06-JAN-2008 23:12:25; Bright; 36.0; 114; 3Iot Aur ; 2.69; 4600;occ; 72; 0;30602
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22; 3682.3; 06-JAN-2008 23:32:30; Bright; 33.5; 60; 7Bet UMi ; 2.08; 3950;occ; 67; 0;30602
23; 3924.3; 06-JAN-2008 23:36:32; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;30602
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25; 4434.3; 06-JAN-2008 23:45:02; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;30602
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28; 5051.0; 06-JAN-2008 23:55:18; Bright; 35.0; 120; 1Del Oph ; 2.73; 3200;occ; 70; 0;30602
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5; 26.1; 07-JAN-2008 00:12:09; Dark ; 51.5; 4; Alp1Cen ; -0.01; 5800;occ; 103; 0;30603
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8; 575.3; 07-JAN-2008 00:21:18; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;30603
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12; 1199.7; 07-JAN-2008 00:31:43; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;30603
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16; 1888.0; 07-JAN-2008 00:43:11; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;30603
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25; 4061.5; 07-JAN-2008 01:19:25; Bright; 52.0; 130; 23Bet Dra ; 2.80; 5800;occ; 104; 0;30603
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27; 4613.2; 07-JAN-2008 01:28:36; Bright; 52.0; 127; 27Bet Her ; 2.78; 4700;occ; 104; 0;30603
28; 4916.6; 07-JAN-2008 01:33:40; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;30603
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23; 6613.0; 07-JAN-2008 08:44:20; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;30607
24; 6710.5; 07-JAN-2008 08:45:58; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30607
25; 6797.4; 07-JAN-2008 08:47:24; Dark ; 51.5; 41; Eps Car ; 1.86; 4100;occ; 103; 0;30607
26; 7035.7; 07-JAN-2008 08:51:23; Dark ; 45.0; 2; Alp Car ; -0.74; 7000;occ; 90; 0;30607
27; 7237.5; 07-JAN-2008 08:54:45; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;30607
28; 7398.6; 07-JAN-2008 08:57:26; Dark ; 44.5; 23; 21Eps CMa ; 1.50; 26000;occ; 89; 0;30607
29; 7617.5; 07-JAN-2008 09:01:05; Dark ; 43.5; 47; 2Bet CMa ; 1.98; 28000;occ; 87; 0;30607
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 3; 2031.4; 07-JAN-2008 09:08:34; Dark ; 52.5; 14; 58Alp Ori ; 0.87; 3000;occ; 105; 0;30608
 4; 2268.2; 07-JAN-2008 09:12:31; Bright; 35.5; 176; 23Zet Tau ; 3.02; 22000;occ; 71; 0;30608
 5; 2395.2; 07-JAN-2008 09:14:38; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30608

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6; 2478.5; 07-JAN-2008 09:16:01; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30608  
7; 2689.5; 07-JAN-2008 09:19:32; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;30608  
8; 3424.1; 07-JAN-2008 09:31:47; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;30608  
9; 3681.6; 07-JAN-2008 09:36:05; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30608  
10; 3924.6; 07-JAN-2008 09:40:08; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30608  
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12; 4435.4; 07-JAN-2008 09:48:38; Bright; 49.5; 133; 40Zet Her ; 2.81; 6000;occ; 99; 0;30608  
13; 4614.3; 07-JAN-2008 09:51:37; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;30608  
14; 4918.5; 07-JAN-2008 09:56:41; Bright; 38.5; 102; 24Alp Ser ; 2.60; 4250;occ; 77; 0;30608  
15; 5053.0; 07-JAN-2008 09:58:56; Bright; 34.0; 120; 1Del Oph ; 2.73; 3200;occ; 68; 0;30608  
16; 5380.2; 07-JAN-2008 10:04:23; Dark ; 40.0; 80; 7Del Sco ; 2.32; 30000;occ; 80; 0;30608  
17; 5706.4; 07-JAN-2008 10:09:49; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;30608  
18; 5796.0; 07-JAN-2008 10:11:19; Dark ; 39.5; 109; Bet Lup ; 2.68; 26000;occ; 79; 0;30608  
19; 5885.8; 07-JAN-2008 10:12:49; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;30608  
20; 6064.3; 07-JAN-2008 10:15:47; Dark ; 41.5; 4; Alp1Cen ; -0.01; 5800;occ; 83; 0;30608  
21; 6309.9; 07-JAN-2008 10:19:53; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30608  
22; 6460.2; 07-JAN-2008 10:22:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30608  
23; 6613.4; 07-JAN-2008 10:24:56; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30608  
24; 6710.9; 07-JAN-2008 10:26:34; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30608  
25; 6797.8; 07-JAN-2008 10:28:01; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0;30608  
26; 7035.8; 07-JAN-2008 10:31:59; Dark ; 44.0; 2; Alp Car ; -0.74; 7000;occ; 88; 0;30608  
27; 7237.7; 07-JAN-2008 10:35:21; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;30608  
28; 7398.8; 07-JAN-2008 10:38:02; Dark ; 44.5; 23; 21Eps CMa ; 1.50; 26000;occ; 89; 0;30608  
29; 7617.6; 07-JAN-2008 10:41:40; Dark ; 39.5; 47; 2Bet CMa ; 1.98; 28000;occ; 79; 0;30608

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3; 2031.3; 07-JAN-2008 10:49:10; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;30609  
4; 2268.0; 07-JAN-2008 10:53:07; Bright; 36.5; 176; 23Zet Tau ; 3.02; 22000;occ; 73; 0;30609  
5; 2395.1; 07-JAN-2008 10:55:14; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;30609  
6; 2478.6; 07-JAN-2008 10:56:37; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30609  
7; 2689.4; 07-JAN-2008 11:00:08; Bright; 39.0; 6; 13Alp Aur ; 0.08; 3400;occ; 78; 0;30609  
8; 3424.1; 07-JAN-2008 11:12:23; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;30609  
9; 3681.4; 07-JAN-2008 11:16:40; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;30609  
10; 3924.6; 07-JAN-2008 11:20:43; Bright; 34.5; 119; 14Eta Dra ; 2.73; 4700;occ; 69; 0;30609  
11; 4062.3; 07-JAN-2008 11:23:01; Bright; 52.0; 130; 23Bet Dra ; 2.80; 5800;occ; 104; 0;30609  
12; 4435.5; 07-JAN-2008 11:29:14; Bright; 43.5; 133; 40Zet Her ; 2.81; 6000;occ; 87; 0;30609  
13; 4614.4; 07-JAN-2008 11:32:13; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;30609  
14; 4918.8; 07-JAN-2008 11:37:18; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;30609  
15; 5053.2; 07-JAN-2008 11:39:32; Bright; 35.0; 120; 1Del Oph ; 2.73; 3200;occ; 70; 0;30609  
16; 5380.7; 07-JAN-2008 11:45:00; Dark ; 41.5; 80; 7Del Sco ; 2.32; 30000;occ; 83; 0;30609  
17; 5706.9; 07-JAN-2008 11:50:26; Dark ; 38.5; 131; Gam Lup ; 2.80; 26000;occ; 77; 0;30609  
18; 5796.4; 07-JAN-2008 11:51:55; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30609  
19; 5886.2; 07-JAN-2008 11:53:25; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;30609  
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21; 6310.4; 07-JAN-2008 12:00:29; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30609  
22; 6460.4; 07-JAN-2008 12:02:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30609  
23; 6613.6; 07-JAN-2008 12:05:32; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30609  
24; 6711.4; 07-JAN-2008 12:07:10; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30609  
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26; 7036.0; 07-JAN-2008 12:12:35; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;30609  
27; 7238.0; 07-JAN-2008 12:15:57; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;30609  
28; 7399.0; 07-JAN-2008 12:18:38; Dark ; 43.0; 23; 21Eps CMa ; 1.50; 26000;occ; 86; 0;30609  
29; 7617.7; 07-JAN-2008 12:22:17; Dark ; 39.5; 47; 2Bet CMa ; 1.98; 28000;occ; 79; 0;30609

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3; 1888.7; 07-JAN-2008 12:27:23; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;30610  
4; 2031.4; 07-JAN-2008 12:29:46; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;30610  
5; 2268.1; 07-JAN-2008 12:33:43; Bright; 34.0; 176; 23Zet Tau ; 3.02; 22000;occ; 68; 0;30610  
6; 2395.2; 07-JAN-2008 12:35:50; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30610  
7; 2478.7; 07-JAN-2008 12:37:13; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30610  
8; 2689.5; 07-JAN-2008 12:40:44; Bright; 37.5; 6; 13Alp Aur ; 0.08; 3400;occ; 75; 0;30610  
9; 3424.1; 07-JAN-2008 12:52:59; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30610  
10; 3681.3; 07-JAN-2008 12:57:16; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;30610  
11; 3924.6; 07-JAN-2008 13:01:19; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;30610  
12; 4062.5; 07-JAN-2008 13:03:37; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;30610  
13; 4435.7; 07-JAN-2008 13:09:50; Bright; 33.5; 133; 40Zet Her ; 2.81; 6000;occ; 67; 0;30610

14; 4614.7; 07-JAN-2008 13:12:49; Bright; 53.0; 127; 27Bet Her ; 2.78; 4700;occ; 106; 0;30610  
 15; 4919.2; 07-JAN-2008 13:17:54; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;30610  
 16; 5053.5; 07-JAN-2008 13:20:08; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;30610  
 17; 5380.9; 07-JAN-2008 13:25:36; Dark ; 41.5; 80; 7Del Sco ; 2.32; 30000;occ; 83; 0;30610  
 18; 5707.2; 07-JAN-2008 13:31:02; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30610  
 19; 5797.0; 07-JAN-2008 13:32:32; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30610  
 20; 5886.8; 07-JAN-2008 13:34:02; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;30610  
 21; 6065.0; 07-JAN-2008 13:37:00; Dark ; 44.0; 4; Alp1Cen ;-0.01; 5800;occ; 88; 0;30610  
 22; 6311.0; 07-JAN-2008 13:41:06; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30610  
 23; 6460.8; 07-JAN-2008 13:43:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30610  
 24; 6614.0; 07-JAN-2008 13:46:09; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;30610  
 25; 6711.9; 07-JAN-2008 13:47:47; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30610  
 26; 6798.7; 07-JAN-2008 13:49:13; Dark ; 41.5; 41; Eps Car ; 1.86; 4100;occ; 83; 0;30610  
 27; 7036.3; 07-JAN-2008 13:53:11; Dark ; 45.0; 2; Alp Car ;-0.74; 7000;occ; 90; 0;30610  
 28; 7238.4; 07-JAN-2008 13:56:33; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;30610  
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 3; 1888.9; 07-JAN-2008 14:07:59; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;30611  
 4; 2031.5; 07-JAN-2008 14:10:22; Dark ; 46.5; 14; 58Alp Ori ; 0.87; 3000;occ; 93; 0;30611  
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 6; 2395.2; 07-JAN-2008 14:16:26; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30611  
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 9; 3424.2; 07-JAN-2008 14:33:35; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;30611  
 10; 3681.2; 07-JAN-2008 14:37:52; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;30611  
 11; 3924.6; 07-JAN-2008 14:41:55; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30611  
 12; 4062.8; 07-JAN-2008 14:44:13; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;30611  
 13; 4436.0; 07-JAN-2008 14:50:27; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;30611  
 14; 4615.0; 07-JAN-2008 14:53:26; Bright; 41.5; 127; 27Bet Her ; 2.78; 4700;occ; 83; 0;30611  
 15; 4919.7; 07-JAN-2008 14:58:30; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;30611  
 16; 5053.9; 07-JAN-2008 15:00:45; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;30611  
 17; 5381.4; 07-JAN-2008 15:06:12; Dark ; 40.0; 80; 7Del Sco ; 2.32; 30000;occ; 80; 0;30611  
 18; 5707.7; 07-JAN-2008 15:11:38; Dark ; 36.5; 131; Gam Lup ; 2.80; 26000;occ; 73; 0;30611  
 19; 5797.5; 07-JAN-2008 15:13:08; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30611  
 20; 5887.4; 07-JAN-2008 15:14:38; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;30611  
 21; 6065.4; 07-JAN-2008 15:17:36; Dark ; 49.0; 4; Alp1Cen ;-0.01; 5800;occ; 98; 0;30611  
 22; 6311.5; 07-JAN-2008 15:21:42; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;30611  
 23; 6461.1; 07-JAN-2008 15:24:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30611  
 24; 6614.4; 07-JAN-2008 15:26:45; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30611  
 25; 6712.5; 07-JAN-2008 15:28:23; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30611  
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 27; 7036.5; 07-JAN-2008 15:33:47; Dark ; 42.5; 2; Alp Car ;-0.74; 7000;occ; 85; 0;30611  
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 4; 1889.0; 07-JAN-2008 15:48:36; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;30612  
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 9; 2689.5; 07-JAN-2008 16:01:56; Bright; 38.5; 6; 13Alp Aur ; 0.08; 3400;occ; 77; 0;30612  
 10; 3424.2; 07-JAN-2008 16:14:11; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30612  
 11; 3681.0; 07-JAN-2008 16:18:28; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;30612  
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 13; 4062.9; 07-JAN-2008 16:24:49; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;30612  
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 16; 4920.1; 07-JAN-2008 16:39:07; Bright; 38.0; 102; 24Alp Ser ; 2.60; 4250;occ; 76; 0;30612  
 17; 5054.3; 07-JAN-2008 16:41:21; Bright; 35.5; 120; 1Del Oph ; 2.73; 3200;occ; 71; 0;30612  
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 19; 5708.2; 07-JAN-2008 16:52:15; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30612  
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16;	5349.6;	11-JAN-2008	07:57:25;	Dark	;	41.0;	97;	8Bet1Sco	;	2.56;	30000;occ;	82;	0;	30664
17;	5425.1;	11-JAN-2008	07:58:40;	Dark	;	46.5;	16;	21Alp Sco	;	1.02;	3000;occ;	93;	0;	30664
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23;	6297.6;	11-JAN-2008	08:13:13;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	30664
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31;	7498.9;	11-JAN-2008	08:33:14;	Dark	;	39.0;	179;	240mi2CMa	;	3.03;	24000;occ;	78;	0;	30664
32;	7635.8;	11-JAN-2008	08:35:31;	Dark	;	47.5;	1;	9Alp CMa	;	-1.44;	11000;occ;	95;	0;	30664
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4;	2269.9;	11-JAN-2008	08:46:41;	Bright;		35.0;	176;	23Zet Tau	;	3.02;	22000;occ;	70;	0;	30665
5;	2397.8;	11-JAN-2008	08:48:49;	Bright;		37.0;	28;	12Bet Tau	;	1.65;	15200;occ;	74;	0;	30665
6;	2486.7;	11-JAN-2008	08:50:18;	Bright;		37.0;	114;	3Iot Aur	;	2.69;	4600;occ;	74;	0;	30665
7;	2676.3;	11-JAN-2008	08:53:27;	Bright;		37.0;	42;	34Bet Aur	;	1.90;	10200;occ;	74;	0;	30665
8;	3424.7;	11-JAN-2008	09:05:56;	Bright;		32.0;	49;	1Alp UMi	;	1.99;	6300;occ;	64;	0;	30665
9;	3673.8;	11-JAN-2008	09:10:05;	Bright;		39.5;	60;	7Bet UMi	;	2.08;	3950;occ;	79;	0;	30665
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20;	5917.8;	11-JAN-2008	09:47:29;	Dark	;	39.5;	78;	Alp Lup	;	2.30;	28000;occ;	79;	0;	30665
21;	6029.6;	11-JAN-2008	09:49:21;	Dark	;	31.0;	95;	Zet Cen	;	2.55;	26000;occ;	62;	0;	30665
22;	6086.2;	11-JAN-2008	09:50:17;	Dark	;	40.0;	4;	Alp1Cen	;	-0.01;	5800;occ;	80;	0;	30665
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24;	6539.3;	11-JAN-2008	09:57:50;	Dark	;	39.0;	124;	The Car	;	2.76;	30000;occ;	78;	0;	30665
25;	6632.6;	11-JAN-2008	09:59:24;	Dark	;	35.5;	29;	Bet Car	;	1.67;	10200;occ;	71;	0;	30665
26;	6738.7;	11-JAN-2008	10:01:10;	Dark	;	39.0;	71;	Iot Car	;	2.25;	7700;occ;	78;	0;	30665
27;	6820.2;	11-JAN-2008	10:02:31;	Dark	;	46.0;	41;	Eps Car	;	1.86;	4100;occ;	92;	0;	30665
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29;	7255.0;	11-JAN-2008	10:09:46;	Dark	;	44.0;	117;	Pi Pup	;	2.71;	3800;occ;	88;	0;	30665
30;	7412.1;	11-JAN-2008	10:12:23;	Dark	;	43.0;	23;	21Eps CMa	;	1.50;	26000;occ;	86;	0;	30665
31;	7499.1;	11-JAN-2008	10:13:50;	Dark	;	41.0;	179;	240mi2CMa	;	3.03;	24000;occ;	82;	0;	30665
32;	7635.9;	11-JAN-2008	10:16:07;	Dark	;	46.5;	1;	9Alp CMa	;	-1.44;	11000;occ;	93;	0;	30665

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29; 7255.2; 11-JAN-2008 11:50:22; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;30666
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1; 1418.3; 11-JAN-2008 15:14:53; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 83;30669  
2; 1463.7; 11-JAN-2008 15:15:38; Dark ; 41.5; 179; 240mi2Cma ; 3.03; 24000;occ; 83; 0;30669  
3; 1600.4; 11-JAN-2008 15:17:55; Dark ; 48.5; 1; 9Alp Cma ;-1.44; 11000;occ; 97; 0;30669  
4; 1748.7; 11-JAN-2008 15:20:23; Dark ; 39.0; 56; 53Kap Ori ; 2.07; 30000;occ; 78; 0;30669  
5; 1896.0; 11-JAN-2008 15:22:50; Dark ; 40.5; 30; 46Eps Ori ; 1.69; 30000;occ; 81; 0;30669  
6; 2033.8; 11-JAN-2008 15:25:08; Dark ; 51.0; 14; 58Alp Ori ; 0.87; 3000;occ; 102; 0;30669  
7; 2270.1; 11-JAN-2008 15:29:05; Bright; 36.5; 176; 23Zet Tau ; 3.02; 22000;occ; 73; 0;30669  
8; 2398.2; 11-JAN-2008 15:31:13; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;30669  
9; 2487.3; 11-JAN-2008 15:32:42; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30669  
10; 2676.0; 11-JAN-2008 15:35:50; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;30669  
11; 3424.8; 11-JAN-2008 15:48:19; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30669  
12; 3673.2; 11-JAN-2008 15:52:28; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;30669  
13; 3924.3; 11-JAN-2008 15:56:39; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;30669  
14; 4070.3; 11-JAN-2008 15:59:05; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;30669  
15; 4444.7; 11-JAN-2008 16:05:19; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;30669  
16; 4626.8; 11-JAN-2008 16:08:21; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;30669  
17; 5073.7; 11-JAN-2008 16:15:48; Bright; 37.5; 120; 1Del Oph ; 2.73; 3200;occ; 75; 0;30669  
18; 5160.0; 11-JAN-2008 16:17:14; Bright; 42.5; 98; 13Zet Oph ; 2.57; 30000;occ; 85; 0;30669  
19; 5426.7; 11-JAN-2008 16:21:41; Dark ; 45.5; 16; 21Alp Sco ; 1.02; 3000;occ; 91; 0;30669  
20; 5732.4; 11-JAN-2008 16:26:47; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30669  
21; 5829.7; 11-JAN-2008 16:28:24; Dark ; 39.5; 109; Bet Lup ; 2.68; 26000;occ; 79; 0;30669  
22; 5920.2; 11-JAN-2008 16:29:55; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;30669  
23; 6087.9; 11-JAN-2008 16:32:42; Dark ; 50.5; 4; Alp1Cen ;-0.01; 5800;occ; 101; 0;30669  
24; 6299.0; 11-JAN-2008 16:36:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30669  
25; 6541.3; 11-JAN-2008 16:40:16; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;30669  
26; 6634.0; 11-JAN-2008 16:41:48; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30669  
27; 6740.7; 11-JAN-2008 16:43:35; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30669  
28; 6821.7; 11-JAN-2008 16:44:56; Dark ; 42.5; 41; Eps Car ; 1.86; 4100;occ; 85; 0;30669  
29; 7048.9; 11-JAN-2008 16:48:43; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;30669  
30; 7256.2; 11-JAN-2008 16:52:11; Dark ; 12.5; 117; Pi Pup ; 2.71; 3800;occ; 25; 0;30669

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3; 1463.9; 11-JAN-2008 16:56:14; Dark ; 41.0; 179; 240mi2Cma ; 3.03; 24000;occ; 82; 0;30670  
4; 1600.5; 11-JAN-2008 16:58:31; Dark ; 45.5; 1; 9Alp Cma ;-1.44; 11000;occ; 91; 0;30670  
5; 1748.8; 11-JAN-2008 17:00:59; Dark ; 41.0; 56; 53Kap Ori ; 2.07; 30000;occ; 82; 0;30670  
6; 1896.2; 11-JAN-2008 17:03:27; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;30670  
7; 2033.9; 11-JAN-2008 17:05:44; Dark ; 52.0; 14; 58Alp Ori ; 0.87; 3000;occ; 104; 0;30670  
8; 2270.1; 11-JAN-2008 17:09:41; Bright; 35.0; 176; 23Zet Tau ; 3.02; 22000;occ; 70; 0;30670

9; 2398.2; 11-JAN-2008 17:11:49; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30670  
 10; 2487.5; 11-JAN-2008 17:13:18; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30670  
 11; 2675.9; 11-JAN-2008 17:16:26; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;30670  
 12; 3424.8; 11-JAN-2008 17:28:55; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;30670  
 13; 3673.0; 11-JAN-2008 17:33:03; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;30670  
 14; 3924.2; 11-JAN-2008 17:37:15; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;30670  
 15; 4070.4; 11-JAN-2008 17:39:41; Bright; 33.0; 130; 23Bet Dra ; 2.80; 5800;occ; 66; 0;30670  
 16; 4444.9; 11-JAN-2008 17:45:55; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;30670  
 17; 4626.9; 11-JAN-2008 17:48:57; Bright; 54.0; 127; 27Bet Her ; 2.78; 4700;occ; 108; 0;30670  
 18; 5074.1; 11-JAN-2008 17:56:25; Bright; 51.5; 120; 1Del Oph ; 2.73; 3200;occ; 103; 0;30670  
 19; 5160.3; 11-JAN-2008 17:57:51; Bright; 35.5; 98; 13Zet Oph ; 2.57; 30000;occ; 71; 0;30670  
 20; 5427.0; 11-JAN-2008 18:02:18; Dark ; 44.5; 16; 21Alp Sco ; 1.02; 3000;occ; 89; 0;30670  
 21; 5732.9; 11-JAN-2008 18:07:23; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;30670  
 22; 5830.3; 11-JAN-2008 18:09:01; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;30670  
 23; 5920.9; 11-JAN-2008 18:10:31; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;30670  
 24; 6088.3; 11-JAN-2008 18:13:19; Dark ; 53.0; 4; Alp1Cen ; -0.01; 5800;occ; 106; 0;30670  
 25; 6299.2; 11-JAN-2008 18:16:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30670  
 26; 6541.8; 11-JAN-2008 18:20:52; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;30670  
 27; 6634.3; 11-JAN-2008 18:22:25; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;30670  
 28; 6741.3; 11-JAN-2008 18:24:12; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;30670  
 29; 6822.1; 11-JAN-2008 18:25:33; Dark ; 43.5; 41; Eps Car ; 1.86; 4100;occ; 87; 0;30670  
 30; 7049.0; 11-JAN-2008 18:29:20; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0;30670

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1; -608.2; 11-JAN-2008 23:04:06; Dark ; 45.0; 16; 21Alp Sco ; 1.02; 3000;occ; 90; 0;30673  
 2; -301.7; 11-JAN-2008 23:09:13; Dark ; 36.5; 131; Gam Lup ; 2.80; 26000;occ; 73; 0;30673  
 3; -204.0; 11-JAN-2008 23:10:50; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30673  
 4; -113.5; 11-JAN-2008 23:12:21; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;30673  
 5; 53.5; 11-JAN-2008 23:15:08; Dark ; 46.0; 4; Alp1Cen ; -0.01; 5800;occ; 92; 0;30674  
 6; 264.0; 11-JAN-2008 23:18:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30674  
 7; 507.2; 11-JAN-2008 23:22:41; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;30674  
 8; 599.2; 11-JAN-2008 23:24:13; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30674  
 9; 706.5; 11-JAN-2008 23:26:01; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30674  
 10; 787.1; 11-JAN-2008 23:27:21; Dark ; 50.0; 41; Eps Car ; 1.86; 4100;occ; 100; 0;30674  
 11; 1013.5; 11-JAN-2008 23:31:08; Dark ; 52.0; 2; Alp Car ; -0.74; 7000;occ; 104; 0;30674  
 12; 1221.3; 11-JAN-2008 23:34:36; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 0;30674  
 13; 1377.9; 11-JAN-2008 23:37:12; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;30674  
 14; 1464.8; 11-JAN-2008 23:38:39; Dark ; 40.5; 179; 240mi2CMA ; 3.03; 24000;occ; 81; 0;30674  
 15; 1601.0; 11-JAN-2008 23:40:55; Dark ; 46.0; 1; 9Alp CMA ; -1.44; 11000;occ; 92; 0;30674  
 16; 1749.3; 11-JAN-2008 23:43:23; Dark ; 39.5; 56; 53Kap Ori ; 2.07; 30000;occ; 79; 0;30674  
 17; 1896.7; 11-JAN-2008 23:45:51; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;30674  
 18; 2033.9; 11-JAN-2008 23:48:08; Dark ; 52.0; 14; 58Alp Ori ; 0.87; 3000;occ; 104; 0;30674  
 19; 2270.3; 11-JAN-2008 23:52:04; Bright; 35.5; 176; 23Zet Tau ; 3.02; 22000;occ; 71; 0;30674  
 20; 2398.4; 11-JAN-2008 23:54:13; Bright; 35.0; 28; 12Bet Tau ; 1.65; 15200;occ; 70; 0;30674  
 21; 2488.2; 11-JAN-2008 23:55:42; Bright; 36.5; 114; 3Iot Aur ; 2.69; 4600;occ; 73; 0;30674  
 22; 2675.5; 11-JAN-2008 23:58:50; Bright; 34.0; 42; 34Bet Aur ; 1.90; 10200;occ; 68; 0;30674  
 23; 3424.7; 12-JAN-2008 00:11:19; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;30674  
 24; 3672.4; 12-JAN-2008 00:15:27; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;30674  
 25; 3924.1; 12-JAN-2008 00:19:38; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;30674  
 26; 4070.8; 12-JAN-2008 00:22:05; Bright; 52.0; 130; 23Bet Dra ; 2.80; 5800;occ; 104; 0;30674  
 27; 4445.4; 12-JAN-2008 00:28:20; Bright; 53.0; 133; 40Zet Her ; 2.81; 6000;occ; 106; 0;30674  
 28; 4627.7; 12-JAN-2008 00:31:22; Bright; 54.0; 127; 27Bet Her ; 2.78; 4700;occ; 108; 0;30674  
 29; 5075.4; 12-JAN-2008 00:38:50; Bright; 54.0; 120; 1Del Oph ; 2.73; 3200;occ; 108; 0;30674  
 30; 5161.4; 12-JAN-2008 00:40:16; Bright; 52.0; 98; 13Zet Oph ; 2.57; 30000;occ; 104; 0;30674  
 31; 5427.9; 12-JAN-2008 00:44:42; Dark ; 6.0; 16; 21Alp Sco ; 1.02; 3000;occ; 12; 0;30674

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 4; 1464.3; 11-JAN-2008 18:36:51; Dark ; 41.0; 179; 240mi2CMA ; 3.03; 24000;occ; 82; 0;30671  
 5; 1600.7; 11-JAN-2008 18:39:07; Dark ; 46.5; 1; 9Alp CMA ; -1.44; 11000;occ; 93; 0;30671  
 6; 1749.0; 11-JAN-2008 18:41:35; Dark ; 39.5; 56; 53Kap Ori ; 2.07; 30000;occ; 79; 0;30671  
 7; 1896.3; 11-JAN-2008 18:44:03; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;30671  
 8; 2033.9; 11-JAN-2008 18:46:20; Dark ; 48.5; 14; 58Alp Ori ; 0.87; 3000;occ; 97; 0;30671  
 9; 2270.2; 11-JAN-2008 18:50:17; Bright; 36.0; 176; 23Zet Tau ; 3.02; 22000;occ; 72; 0;30671  
 10; 2398.3; 11-JAN-2008 18:52:25; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30671  
 11; 2487.7; 11-JAN-2008 18:53:54; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30671  
 12; 2675.7; 11-JAN-2008 18:57:02; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;30671  
 13; 3424.7; 11-JAN-2008 19:09:31; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30671



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 15; 3924.3; 11-JAN-2008 19:17:51; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30671  
 16; 4070.5; 11-JAN-2008 19:20:17; Bright; 33.0; 130; 23Bet Dra ; 2.80; 5800;occ; 66; 0;30671  
 17; 4445.0; 11-JAN-2008 19:26:32; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;30671  
 18; 4627.1; 11-JAN-2008 19:29:34; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;30671  
 19; 5074.3; 11-JAN-2008 19:37:01; Bright; 38.0; 120; 1Del Oph ; 2.73; 3200;occ; 76; 0;30671  
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 21; 5427.2; 11-JAN-2008 19:42:54; Dark ; 45.5; 16; 21Alp Sco ; 1.02; 3000;occ; 91; 0;30671  
 22; 5733.3; 11-JAN-2008 19:48:00; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;30671  
 23; 5830.8; 11-JAN-2008 19:49:37; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;30671  
 24; 5921.4; 11-JAN-2008 19:51:08; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;30671  
 25; 6088.6; 11-JAN-2008 19:53:55; Dark ; 52.0; 4; Alp1Cen ; -0.01; 5800;occ; 104; 0;30671  
 26; 6299.5; 11-JAN-2008 19:57:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30671  
 27; 6542.1; 11-JAN-2008 20:01:29; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;30671  
 28; 6634.6; 11-JAN-2008 20:03:01; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;30671  
 29; 6741.5; 11-JAN-2008 20:04:48; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30671  
 30; 6822.4; 11-JAN-2008 20:06:09; Dark ; 46.5; 41; Eps Car ; 1.86; 4100;occ; 93; 0;30671

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 5; 599.5; 12-JAN-2008 01:04:50; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;30675  
 6; 707.0; 12-JAN-2008 01:06:37; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;30675  
 7; 787.5; 12-JAN-2008 01:07:58; Dark ; 44.5; 41; Eps Car ; 1.86; 4100;occ; 89; 0;30675  
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 9; 1221.6; 12-JAN-2008 01:15:12; Dark ; 44.0; 117; Pi Pup ; 2.71; 3800;occ; 88; 0;30675  
 10; 1378.1; 12-JAN-2008 01:17:48; Dark ; 43.0; 23; 21Eps CMA ; 1.50; 26000;occ; 86; 0;30675  
 11; 1464.9; 12-JAN-2008 01:19:15; Dark ; 41.5; 179; 240mi2CMA ; 3.03; 24000;occ; 83; 0;30675  
 12; 1601.1; 12-JAN-2008 01:21:31; Dark ; 51.0; 1; 9Alp CMA ; -1.44; 11000;occ; 102; 0;30675  
 13; 1749.4; 12-JAN-2008 01:23:59; Dark ; 40.0; 56; 53Kap Ori ; 2.07; 30000;occ; 80; 0;30675  
 14; 1896.9; 12-JAN-2008 01:26:27; Dark ; 38.5; 30; 46Eps Ori ; 1.69; 30000;occ; 77; 0;30675  
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 16; 2270.4; 12-JAN-2008 01:32:40; Bright; 38.0; 176; 23Zet Tau ; 3.02; 22000;occ; 76; 0;30675  
 17; 2398.6; 12-JAN-2008 01:34:49; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;30675  
 18; 2488.4; 12-JAN-2008 01:36:18; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;30675  
 19; 2675.3; 12-JAN-2008 01:39:25; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;30675  
 20; 3424.7; 12-JAN-2008 01:51:55; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;30675  
 21; 3672.2; 12-JAN-2008 01:56:02; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;30675  
 22; 3924.1; 12-JAN-2008 02:00:14; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30675  
 23; 4070.9; 12-JAN-2008 02:02:41; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;30675  
 24; 4445.5; 12-JAN-2008 02:08:56; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;30675  
 25; 4628.0; 12-JAN-2008 02:11:58; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;30675  
 26; 5075.8; 12-JAN-2008 02:19:26; Bright; 30.5; 120; 1Del Oph ; 2.73; 3200;occ; 61; 0;30675

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 4; -202.8; 12-JAN-2008 02:32:03; Dark ; 39.5; 109; Bet Lup ; 2.68; 26000;occ; 79; 0;30675  
 5; -112.2; 12-JAN-2008 02:33:34; Dark ; 40.0; 78; Alp Lup ; 2.30; 28000;occ; 80; 0;30675  
 6; 54.3; 12-JAN-2008 02:36:20; Dark ; 40.0; 4; Alp1Cen ; -0.01; 5800;occ; 80; 0;30676  
 7; 264.5; 12-JAN-2008 02:39:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30676  
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3; 1822.3; 13-JAN-2008 10:57:11; Dark ; 37.5; 125; 44Iot Ori ; 2.77; 30000;occ; 75; 0;30695  
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8; 2492.2; 13-JAN-2008 11:08:21; Bright; 36.0; 114; 3Iot Aur ; 2.69; 4600;occ; 72; 0;30695  
9; 2673.9; 13-JAN-2008 11:11:23; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;30695  
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17; 5167.9; 13-JAN-2008 11:52:57; Bright; 53.0; 98; 13Zet Oph ; 2.57; 30000;occ; 106; 0;30695  
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19; 5744.6; 13-JAN-2008 12:02:33; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;30695  
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26; 6752.7; 13-JAN-2008 12:19:21; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;30695  
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29; 7263.3; 13-JAN-2008 12:27:52; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;30695  
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31; 7504.7; 13-JAN-2008 12:31:53; Dark ; 40.5; 179; 240mi2CMA ; 3.03; 24000;occ; 81; 0;30695  
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5; 2035.7; 13-JAN-2008 12:41:20; Dark ; 52.0; 14; 58Alp Ori ; 0.87; 3000;occ; 104; 0;30696  
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6; 1900.4; 13-JAN-2008 16:00:17; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;30698
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11; 2672.4; 20-JAN-2008 12:31:50; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;30796
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26; 7088.7; 25-JAN-2008 09:26:45; Dark ; 40.5; 34; Gam2Vel ; 1.79; 23000;occ; 81; 0;30865
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28; 7304.1; 25-JAN-2008 09:30:20; Dark ; 39.0; 117; Pi Pup ; 2.71; 3800;occ; 78; 0;30865
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19;	2047.1;	27-JAN-2008	22:04:53;	Dark	;	38.0;	153;	3Bet CMI	;	2.89;	13100;occ;	76;	0;	30902
20;	2191.5;	27-JAN-2008	22:07:17;	Bright;		38.0;	44;	24Gam Gem	;	1.93;	11000;occ;	76;	0;	30902
21;	2299.3;	27-JAN-2008	22:09:05;	Bright;		37.5;	151;	13Mu Gem	;	2.89;	3000;occ;	75;	0;	30902
22;	2554.6;	27-JAN-2008	22:13:20;	Bright;		34.5;	107;	37The Aur	;	2.65;	11000;occ;	69;	0;	30902
23;	2681.6;	27-JAN-2008	22:15:27;	Bright;		37.0;	42;	34Bet Aur	;	1.90;	10200;occ;	74;	0;	30902
24;	3427.2;	27-JAN-2008	22:27:53;	Bright;		37.0;	49;	1Alp UMi	;	1.99;	6300;occ;	74;	0;	30902
25;	4086.8;	27-JAN-2008	22:38:52;	Bright;		37.0;	130;	23Bet Dra	;	2.80;	5800;occ;	74;	0;	30902
26;	4295.3;	27-JAN-2008	22:42:21;	Bright;		37.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	74;	0;	30902
27;	4779.7;	27-JAN-2008	22:50:25;	Bright;		53.0;	59;	55Alp Oph	;	2.08;	8900;occ;	106;	0;	30902
28;	4906.6;	27-JAN-2008	22:52:32;	Bright;		34.5;	126;	60Bet Oph	;	2.77;	4250;occ;	69;	0;	30902
29;	5284.1;	27-JAN-2008	22:58:50;	Dark	;	42.0;	86;	35Eta Oph	;	2.43;	10200;occ;	84;	0;	30902
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2;	-505.5;	27-JAN-2008	23:02:56;	Dark	;	52.0;	16;	21Alp Sco	;	1.02;	3000;occ;	104;	0;	30902
3;	-347.3;	27-JAN-2008	23:05:34;	Dark	;	38.5;	40;	The Sco	;	1.86;	7100;occ;	77;	0;	30902
4;	-233.0;	27-JAN-2008	23:07:28;	Dark	;	37.5;	147;	Alp Ara	;	2.88;	26000;occ;	75;	0;	30902
5;	68.4;	27-JAN-2008	23:12:30;	Dark	;	37.5;	134;	Bet TrA	;	2.81;	6600;occ;	75;	0;	30903
6;	160.3;	27-JAN-2008	23:14:02;	Dark	;	42.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	85;	0;	30903
7;	325.8;	27-JAN-2008	23:16:47;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	30903
8;	435.2;	27-JAN-2008	23:18:37;	Dark	;	39.5;	12;	Alp1Cru	;	0.77;	30000;occ;	79;	0;	30903
9;	666.4;	27-JAN-2008	23:22:28;	Dark	;	36.5;	29;	Bet Car	;	1.67;	10200;occ;	73;	0;	30903
10;	801.7;	27-JAN-2008	23:24:43;	Dark	;	42.5;	71;	Iot Car	;	2.25;	7700;occ;	85;	0;	30903
11;	908.8;	27-JAN-2008	23:26:30;	Dark	;	42.0;	46;	Del Vel	;	1.95;	10600;occ;	84;	0;	30903
12;	1063.2;	27-JAN-2008	23:29:04;	Dark	;	42.0;	34;	Gam2Vel	;	1.79;	23000;occ;	84;	0;	30903
13;	1189.2;	27-JAN-2008	23:31:10;	Dark	;	38.5;	70;	Zet Pup	;	2.25;	39000;occ;	77;	0;	30903
14;	1275.9;	27-JAN-2008	23:32:37;	Dark	;	42.5;	117;	Pi Pup	;	2.71;	3800;occ;	85;	0;	30903
15;	1422.9;	27-JAN-2008	23:35:04;	Dark	;	41.0;	23;	21Eps CMA	;	1.50;	26000;occ;	82;	0;	30903
16;	1505.6;	27-JAN-2008	23:36:27;	Dark	;	38.5;	179;	240mi2CMA	;	3.03;	24000;occ;	77;	0;	30903
17;	1635.0;	27-JAN-2008	23:38:36;	Dark	;	48.0;	1;	9Alp CMA	;	-1.44;	11000;occ;	96;	0;	30903
18;	2047.1;	27-JAN-2008	23:45:28;	Dark	;	40.0;	153;	3Bet CMI	;	2.89;	13100;occ;	80;	0;	30903
19;	2191.6;	27-JAN-2008	23:47:53;	Bright;		37.5;	44;	24Gam Gem	;	1.93;	11000;occ;	75;	0;	30903
20;	2299.5;	27-JAN-2008	23:49:41;	Bright;		38.0;	151;	13Mu Gem	;	2.89;	3000;occ;	76;	0;	30903
21;	2554.8;	27-JAN-2008	23:53:56;	Bright;		35.0;	107;	37The Aur	;	2.65;	11000;occ;	70;	0;	30903
22;	2681.8;	27-JAN-2008	23:56:03;	Bright;		35.5;	42;	34Bet Aur	;	1.90;	10200;occ;	71;	0;	30903
23;	3427.2;	28-JAN-2008	00:08:29;	Bright;		36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;	30903
24;	4087.0;	28-JAN-2008	00:19:28;	Bright;		36.5;	130;	23Bet Dra	;	2.80;	5800;occ;	73;	0;	30903
25;	4295.5;	28-JAN-2008	00:22:57;	Bright;		35.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	70;	0;	30903
26;	4780.0;	28-JAN-2008	00:31:01;	Bright;		35.0;	59;	55Alp Oph	;	2.08;	8900;occ;	70;	0;	30903
27;	4906.8;	28-JAN-2008	00:33:08;	Bright;		34.5;	126;	60Bet Oph	;	2.77;	4250;occ;	69;	0;	30903
28;	5284.6;	28-JAN-2008	00:39:26;	Dark	;	30.5;	86;	35Eta Oph	;	2.43;	10200;occ;	61;	0;	30903
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2;	-1742.0;	27-JAN-2008	07:36:56;	Bright;		33.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	67;	0;	30893
3;	-1258.3;	27-JAN-2008	07:45:00;	Bright;		35.0;	59;	55Alp Oph	;	2.08;	8900;occ;	70;	0;	30893
4;	-1131.7;	27-JAN-2008	07:47:06;	Bright;		52.0;	126;	60Bet Oph	;	2.77;	4250;occ;	104;	0;	30893
5;	-755.5;	27-JAN-2008	07:53:23;	Dark	;	43.5;	86;	35Eta Oph	;	2.43;	10200;occ;	87;	0;	30893
6;	-510.9;	27-JAN-2008	07:57:27;	Dark	;	51.0;	16;	21Alp Sco	;	1.02;	3000;occ;	102;	0;	30893
7;	-429.2;	27-JAN-2008	07:58:49;	Dark	;	43.5;	75;	26Eps Sco	;	2.29;	4250;occ;	87;	0;	30893
8;	-349.3;	27-JAN-2008	08:00:09;	Dark	;	40.5;	40;	The Sco	;	1.86;	7100;occ;	81;	0;	30893
9;	65.3;	27-JAN-2008	08:07:03;	Dark	;	36.0;	134;	Bet TrA	;	2.81;	6600;occ;	72;	0;	30894
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12;	430.3;	27-JAN-2008	08:13:08;	Dark	;	40.0;	12;	Alp1Cru	;	0.77;	30000;occ;	80;	0;	30894
13;	664.0;	27-JAN-2008	08:17:02;	Dark	;	38.0;	29;	Bet Car	;	1.67;	10200;occ;	76;	0;	30894
14;	798.4;	27-JAN-2008	08:19:16;	Dark	;	40.5;	71;	Iot Car	;	2.25;	7700;occ;	81;	0;	30894

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 17; 1186.8; 27-JAN-2008 08:25:45; Dark ; 40.0; 70; Zet Pup ; 2.25; 39000;occ; 80; 0;30894  
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 19; 1421.4; 27-JAN-2008 08:29:39; Dark ; 39.5; 23; 21Eps CMa ; 1.50; 26000;occ; 79; 0;30894  
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 4; 2298.3; 27-JAN-2008 08:44:16; Bright; 38.5; 151; 13Mu Gem ; 2.89; 3000;occ; 77; 0;30894  
 5; 2553.3; 27-JAN-2008 08:48:31; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;30894  
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 7; 3427.2; 27-JAN-2008 09:03:05; Bright; 32.5; 49; 1Alp Umi ; 1.99; 6300;occ; 65; 0;30894  
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 11; 4904.4; 27-JAN-2008 09:27:42; Bright; 34.5; 126; 60Bet Oph ; 2.77; 4250;occ; 69; 0;30894  
 12; 5280.8; 27-JAN-2008 09:33:59; Dark ; 40.5; 86; 35Eta Oph ; 2.43; 10200;occ; 81; 0;30894  
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 17; 6192.0; 27-JAN-2008 09:49:10; Dark ; 41.5; 4; Alp1Cen ; -0.01; 5800;occ; 83; 0;30894  
 18; 6359.4; 27-JAN-2008 09:51:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30894  
 19; 6466.7; 27-JAN-2008 09:53:45; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;30894  
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 22; 6942.0; 27-JAN-2008 10:01:40; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;30894  
 23; 7096.9; 27-JAN-2008 10:04:15; Dark ; 42.0; 34; Gam2Vel ; 1.79; 23000;occ; 84; 0;30894  
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 26; 7457.4; 27-JAN-2008 10:10:15; Dark ; 41.5; 23; 21Eps Cma ; 1.50; 26000;occ; 83; 0;30894  
 27; 7540.3; 27-JAN-2008 10:11:38; Dark ; 36.0; 179; 240mi2Cma ; 3.03; 24000;occ; 72; 0;30894  
 28; 7669.5; 27-JAN-2008 10:13:48; Dark ; 43.0; 1; 9Alp Cma ; -1.44; 11000;occ; 86; 0;30894

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 3; 2298.4; 27-JAN-2008 10:24:52; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;30895  
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 5; 2680.7; 27-JAN-2008 10:31:15; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;30895  
 6; 3427.1; 27-JAN-2008 10:43:41; Bright; 34.5; 49; 1Alp Umi ; 1.99; 6300;occ; 69; 0;30895  
 7; 4086.5; 27-JAN-2008 10:54:40; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;30895  
 8; 4294.1; 27-JAN-2008 10:58:08; Bright; 33.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 67; 0;30895  
 9; 4777.9; 27-JAN-2008 11:06:12; Bright; 35.0; 59; 55Alp Oph ; 2.08; 8900;occ; 70; 0;30895  
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 11; 5281.2; 27-JAN-2008 11:14:35; Dark ; 42.0; 86; 35Eta Oph ; 2.43; 10200;occ; 84; 0;30895  
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 13; 5607.6; 27-JAN-2008 11:20:02; Dark ; 43.5; 75; 26Eps Sco ; 2.29; 4250;occ; 87; 0;30895  
 14; 5687.0; 27-JAN-2008 11:21:21; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;30895  
 15; 6101.8; 27-JAN-2008 11:28:16; Dark ; 42.5; 134; Bet TrA ; 2.81; 6600;occ; 85; 0;30895  
 16; 6192.5; 27-JAN-2008 11:29:46; Dark ; 42.5; 4; Alp1Cen ; -0.01; 5800;occ; 85; 0;30895  
 17; 6359.7; 27-JAN-2008 11:32:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30895  
 18; 6467.2; 27-JAN-2008 11:34:21; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0;30895  
 19; 6700.5; 27-JAN-2008 11:38:14; Dark ; 36.0; 29; Bet Car ; 1.67; 10200;occ; 72; 0;30895  
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 23; 7223.2; 27-JAN-2008 11:46:57; Dark ; 39.5; 70; Zet Pup ; 2.25; 39000;occ; 79; 0;30895  
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 25; 7457.6; 27-JAN-2008 11:50:52; Dark ; 38.5; 23; 21Eps Cma ; 1.50; 26000;occ; 77; 0;30895  
 26; 7540.4; 27-JAN-2008 11:52:14; Dark ; 38.0; 179; 240mi2Cma ; 3.03; 24000;occ; 76; 0;30895  
 27; 7669.6; 27-JAN-2008 11:54:24; Dark ; 27.5; 1; 9Alp Cma ; -1.44; 11000;occ; 55; 0;30895

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7; 3427.2; 27-JAN-2008 12:24:17; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;30896  
8; 4086.6; 27-JAN-2008 12:35:16; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;30896  
9; 4294.4; 27-JAN-2008 12:38:44; Bright; 32.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 65; 0;30896  
10; 4778.2; 27-JAN-2008 12:46:48; Bright; 53.0; 59; 55Alp Oph ; 2.08; 8900;occ; 106; 0;30896  
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12; 5281.6; 27-JAN-2008 12:55:11; Dark ; 41.0; 86; 35Eta Oph ; 2.43; 10200;occ; 82; 0;30896  
13; 5526.8; 27-JAN-2008 12:59:17; Dark ; 48.0; 16; 21Alp Sco ; 1.02; 3000;occ; 96; 0;30896  
14; 5608.1; 27-JAN-2008 13:00:38; Dark ; 39.5; 75; 26Eps Sco ; 2.29; 4250;occ; 79; 0;30896  
15; 5687.2; 27-JAN-2008 13:01:57; Dark ; 40.5; 40; The Sco ; 1.86; 7100;occ; 81; 0;30896  
16; 6102.3; 27-JAN-2008 13:08:52; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;30896  
17; 6193.1; 27-JAN-2008 13:10:23; Dark ; 40.5; 4; Alp1Cen ;-0.01; 5800;occ; 81; 0;30896  
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19; 6467.9; 27-JAN-2008 13:14:58; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30896  
20; 6700.7; 27-JAN-2008 13:18:51; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;30896  
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22; 6942.7; 27-JAN-2008 13:22:53; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;30896  
23; 7097.5; 27-JAN-2008 13:25:27; Dark ; 40.5; 34; Gam2Vel ; 1.79; 23000;occ; 81; 0;30896  
24; 7223.5; 27-JAN-2008 13:27:33; Dark ; 37.5; 70; Zet Pup ; 2.25; 39000;occ; 75; 0;30896  
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26; 7457.9; 27-JAN-2008 13:31:28; Dark ; 41.0; 23; 21Eps CMa ; 1.50; 26000;occ; 82; 0;30896  
27; 7540.8; 27-JAN-2008 13:32:51; Dark ; 37.0; 179; 240mi2CMa ; 3.03; 24000;occ; 74; 0;30896

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1; 1536.9; 27-JAN-2008 13:33:23; Dark ; 37.5; 179; 240mi2CMa ; 3.03; 24000;occ; 75; 64;30897  
2; 1634.0; 27-JAN-2008 13:35:00; Dark ; 45.0; 1; 9Alp CMa ;-1.44; 11000;occ; 90; 0;30897  
3; 2047.2; 27-JAN-2008 13:41:53; Dark ; 39.5; 153; 3Bet CMi ; 2.89; 13100;occ; 79; 0;30897  
4; 2191.0; 27-JAN-2008 13:44:17; Bright; 38.5; 44; 24Gam Gem ; 1.93; 11000;occ; 77; 0;30897  
5; 2298.8; 27-JAN-2008 13:46:04; Bright; 39.5; 151; 13Mu Gem ; 2.89; 3000;occ; 79; 0;30897  
6; 2553.9; 27-JAN-2008 13:50:20; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;30897  
7; 2681.0; 27-JAN-2008 13:52:27; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;30897  
8; 3427.2; 27-JAN-2008 14:04:53; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;30897  
9; 4086.8; 27-JAN-2008 14:15:52; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;30897  
10; 4294.6; 27-JAN-2008 14:19:20; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;30897  
11; 4778.5; 27-JAN-2008 14:27:24; Bright; 34.5; 59; 55Alp Oph ; 2.08; 8900;occ; 69; 0;30897  
12; 4905.2; 27-JAN-2008 14:29:31; Bright; 35.5; 126; 60Bet Oph ; 2.77; 4250;occ; 71; 0;30897  
13; 5282.1; 27-JAN-2008 14:35:48; Dark ; 40.5; 86; 35Eta Oph ; 2.43; 10200;occ; 81; 0;30897  
14; 5527.5; 27-JAN-2008 14:39:53; Dark ; 53.5; 16; 21Alp Sco ; 1.02; 3000;occ; 107; 0;30897  
15; 5608.7; 27-JAN-2008 14:41:14; Dark ; 47.0; 75; 26Eps Sco ; 2.29; 4250;occ; 94; 0;30897  
16; 5687.6; 27-JAN-2008 14:42:33; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;30897  
17; 6102.6; 27-JAN-2008 14:49:28; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;30897  
18; 6193.5; 27-JAN-2008 14:50:59; Dark ; 41.0; 4; Alp1Cen ;-0.01; 5800;occ; 82; 0;30897  
19; 6360.3; 27-JAN-2008 14:53:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30897  
20; 6468.4; 27-JAN-2008 14:55:34; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;30897  
21; 6701.0; 27-JAN-2008 14:59:27; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;30897  
22; 6835.7; 27-JAN-2008 15:01:41; Dark ; 38.0; 71; Iot Car ; 2.25; 7700;occ; 76; 0;30897  
23; 6943.1; 27-JAN-2008 15:03:29; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;30897  
24; 7097.8; 27-JAN-2008 15:06:03; Dark ; 40.0; 34; Gam2Vel ; 1.79; 23000;occ; 80; 0;30897  
25; 7223.8; 27-JAN-2008 15:08:09; Dark ; 40.5; 70; Zet Pup ; 2.25; 39000;occ; 81; 0;30897  
26; 7310.8; 27-JAN-2008 15:09:36; Dark ; 37.0; 117; Pi Pup ; 2.71; 3800;occ; 74; 0;30897

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1; 1274.9; 27-JAN-2008 15:09:36; Dark ; 42.0; 117; Pi Pup ; 2.71; 3800;occ; 84; 0;30898  
2; 1422.1; 27-JAN-2008 15:12:04; Dark ; 40.0; 23; 21Eps CMa ; 1.50; 26000;occ; 80; 0;30898  
3; 1504.9; 27-JAN-2008 15:13:26; Dark ; 38.0; 179; 240mi2CMa ; 3.03; 24000;occ; 76; 0;30898  
4; 1634.1; 27-JAN-2008 15:15:36; Dark ; 45.5; 1; 9Alp CMa ;-1.44; 11000;occ; 91; 0;30898  
5; 2047.2; 27-JAN-2008 15:22:29; Dark ; 40.5; 153; 3Bet CMi ; 2.89; 13100;occ; 81; 0;30898  
6; 2191.1; 27-JAN-2008 15:24:53; Bright; 35.0; 44; 24Gam Gem ; 1.93; 11000;occ; 70; 0;30898  
7; 2298.9; 27-JAN-2008 15:26:40; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;30898  
8; 2553.8; 27-JAN-2008 15:30:55; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;30898  
9; 2681.2; 27-JAN-2008 15:33:03; Bright; 34.5; 42; 34Bet Aur ; 1.90; 10200;occ; 69; 0;30898  
10; 3427.3; 27-JAN-2008 15:45:29; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30898  
11; 4086.9; 27-JAN-2008 15:56:28; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;30898  
12; 4294.8; 27-JAN-2008 15:59:56; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;30898  
13; 4778.8; 27-JAN-2008 16:08:00; Bright; 53.0; 59; 55Alp Oph ; 2.08; 8900;occ; 106; 0;30898  
14; 4905.6; 27-JAN-2008 16:10:07; Bright; 53.0; 126; 60Bet Oph ; 2.77; 4250;occ; 106; 0;30898  
15; 5282.5; 27-JAN-2008 16:16:24; Dark ; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;30898  
16; 5528.0; 27-JAN-2008 16:20:30; Dark ; 57.0; 16; 21Alp Sco ; 1.02; 3000;occ; 114; 0;30898

17; 5609.1; 27-JAN-2008 16:21:51; Dark ; 42.5; 75; 26Eps Sco ; 2.29; 4250;occ; 85; 0;30898  
 18; 5687.9; 27-JAN-2008 16:23:09; Dark ; 41.0; 40; The Sco ; 1.86; 7100;occ; 82; 0;30898  
 19; 6103.1; 27-JAN-2008 16:30:05; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;30898  
 20; 6194.2; 27-JAN-2008 16:31:36; Dark ; 42.5; 4; Alp1Cen ; -0.01; 5800;occ; 85; 0;30898  
 21; 6360.7; 27-JAN-2008 16:34:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30898  
 22; 6469.0; 27-JAN-2008 16:36:11; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30898  
 23; 6701.4; 27-JAN-2008 16:40:03; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30898  
 24; 6836.2; 27-JAN-2008 16:42:18; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;30898  
 25; 6943.5; 27-JAN-2008 16:44:05; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;30898  
 26; 7098.2; 27-JAN-2008 16:46:40; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;30898  
 27; 7224.2; 27-JAN-2008 16:48:46; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;30898

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1; 1201.2; 27-JAN-2008 16:48:59; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 26;30899  
 2; 1275.2; 27-JAN-2008 16:50:13; Dark ; 40.0; 117; Pi Pup ; 2.71; 3800;occ; 80; 0;30899  
 3; 1422.3; 27-JAN-2008 16:52:40; Dark ; 37.5; 23; 21Eps CMA ; 1.50; 26000;occ; 75; 0;30899  
 4; 1505.1; 27-JAN-2008 16:54:03; Dark ; 38.5; 179; 240mi2CMA ; 3.03; 24000;occ; 77; 0;30899  
 5; 1634.3; 27-JAN-2008 16:56:12; Dark ; 45.5; 1; 9Alp CMA ; -1.44; 11000;occ; 91; 0;30899  
 6; 2047.0; 27-JAN-2008 17:03:05; Dark ; 41.5; 153; 3Bet CMi ; 2.89; 13100;occ; 83; 0;30899  
 7; 2191.1; 27-JAN-2008 17:05:29; Bright; 39.0; 44; 24Gam Gem ; 1.93; 11000;occ; 78; 0;30899  
 8; 2299.0; 27-JAN-2008 17:07:17; Bright; 39.5; 151; 13Mu Gem ; 2.89; 3000;occ; 79; 0;30899  
 9; 2554.1; 27-JAN-2008 17:11:32; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;30899  
 10; 2681.3; 27-JAN-2008 17:13:39; Bright; 35.0; 42; 34Bet Aur ; 1.90; 10200;occ; 70; 0;30899  
 11; 3427.2; 27-JAN-2008 17:26:05; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;30899  
 12; 4086.8; 27-JAN-2008 17:37:04; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;30899  
 13; 4294.9; 27-JAN-2008 17:40:32; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;30899  
 14; 4779.1; 27-JAN-2008 17:48:37; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;30899  
 15; 4905.8; 27-JAN-2008 17:50:43; Bright; 53.0; 126; 60Bet Oph ; 2.77; 4250;occ; 106; 0;30899  
 16; 5283.0; 27-JAN-2008 17:57:01; Dark ; 42.5; 86; 35Eta Oph ; 2.43; 10200;occ; 85; 0;30899  
 17; 5528.7; 27-JAN-2008 18:01:06; Dark ; 53.0; 16; 21Alp Sco ; 1.02; 3000;occ; 106; 0;30899  
 18; 5609.6; 27-JAN-2008 18:02:27; Dark ; 43.0; 75; 26Eps Sco ; 2.29; 4250;occ; 86; 0;30899  
 19; 5688.1; 27-JAN-2008 18:03:46; Dark ; 38.0; 40; The Sco ; 1.86; 7100;occ; 76; 0;30899  
 20; 6103.4; 27-JAN-2008 18:10:41; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;30899  
 21; 6194.7; 27-JAN-2008 18:12:12; Dark ; 44.0; 4; Alp1Cen ; -0.01; 5800;occ; 88; 0;30899  
 22; 6360.9; 27-JAN-2008 18:14:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30899  
 23; 6469.6; 27-JAN-2008 18:16:47; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;30899  
 24; 6701.7; 27-JAN-2008 18:20:39; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;30899  
 25; 6836.6; 27-JAN-2008 18:22:54; Dark ; 38.5; 71; Iot Car ; 2.25; 7700;occ; 77; 0;30899  
 26; 6943.9; 27-JAN-2008 18:24:41; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;30899

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1; 1062.5; 27-JAN-2008 18:27:16; Dark ; 41.5; 34; Gam2Vel ; 1.79; 23000;occ; 83; 0;30900  
 2; 1188.5; 27-JAN-2008 18:29:22; Dark ; 40.0; 70; Zet Pup ; 2.25; 39000;occ; 80; 0;30900  
 3; 1275.3; 27-JAN-2008 18:30:49; Dark ; 42.5; 117; Pi Pup ; 2.71; 3800;occ; 85; 0;30900  
 4; 1422.5; 27-JAN-2008 18:33:16; Dark ; 41.5; 23; 21Eps CMA ; 1.50; 26000;occ; 83; 0;30900  
 5; 1505.3; 27-JAN-2008 18:34:39; Dark ; 40.0; 179; 240mi2CMA ; 3.03; 24000;occ; 80; 0;30900  
 6; 1634.5; 27-JAN-2008 18:36:48; Dark ; 45.0; 1; 9Alp CMA ; -1.44; 11000;occ; 90; 0;30900  
 7; 2047.2; 27-JAN-2008 18:43:41; Dark ; 40.5; 153; 3Bet CMi ; 2.89; 13100;occ; 81; 0;30900  
 8; 2191.4; 27-JAN-2008 18:46:05; Bright; 38.0; 44; 24Gam Gem ; 1.93; 11000;occ; 76; 0;30900  
 9; 2299.1; 27-JAN-2008 18:47:53; Bright; 40.0; 151; 13Mu Gem ; 2.89; 3000;occ; 80; 0;30900  
 10; 2554.3; 27-JAN-2008 18:52:08; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;30900  
 11; 2681.5; 27-JAN-2008 18:54:15; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;30900  
 12; 3427.3; 27-JAN-2008 19:06:41; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30900  
 13; 4087.0; 27-JAN-2008 19:17:41; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;30900  
 14; 4295.0; 27-JAN-2008 19:21:09; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;30900  
 15; 4779.3; 27-JAN-2008 19:29:13; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;30900  
 16; 4906.1; 27-JAN-2008 19:31:20; Bright; 53.0; 126; 60Bet Oph ; 2.77; 4250;occ; 106; 0;30900  
 17; 5283.4; 27-JAN-2008 19:37:37; Dark ; 40.5; 86; 35Eta Oph ; 2.43; 10200;occ; 81; 0;30900  
 18; 5529.2; 27-JAN-2008 19:41:43; Dark ; 55.5; 16; 21Alp Sco ; 1.02; 3000;occ; 111; 0;30900  
 19; 5610.0; 27-JAN-2008 19:43:04; Dark ; 41.5; 75; 26Eps Sco ; 2.29; 4250;occ; 83; 0;30900  
 20; 5688.3; 27-JAN-2008 19:44:22; Dark ; 39.0; 40; The Sco ; 1.86; 7100;occ; 78; 0;30900  
 21; 5802.6; 27-JAN-2008 19:46:16; Dark ; 35.5; 147; Alp Ara ; 2.88; 26000;occ; 71; 0;30900  
 22; 6103.8; 27-JAN-2008 19:51:17; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;30900  
 23; 6195.1; 27-JAN-2008 19:52:49; Dark ; 42.5; 4; Alp1Cen ; -0.01; 5800;occ; 85; 0;30900  
 24; 6361.2; 27-JAN-2008 19:55:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30900  
 25; 6470.1; 27-JAN-2008 19:57:24; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;30900  
 26; 6701.8; 27-JAN-2008 20:01:15; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30900  
 27; 6836.9; 27-JAN-2008 20:03:30; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;30900  
 28; 6944.2; 27-JAN-2008 20:05:18; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;30900

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1; 883.5; 22-JAN-2008 21:02:22; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;30830  
 2; 1039.0; 22-JAN-2008 21:04:58; Dark ; 44.0; 2; Alp Car ; -0.74; 7000;occ; 88; 0;30830  
 3; 1168.5; 22-JAN-2008 21:07:07; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;30830  
 4; 1260.4; 22-JAN-2008 21:08:39; Dark ; 41.0; 117; Pi Pup ; 2.71; 3800;occ; 82; 0;30830  
 5; 1409.7; 22-JAN-2008 21:11:09; Dark ; 39.0; 23; 21Eps CMA ; 1.50; 26000;occ; 78; 0;30830  
 6; 1493.0; 22-JAN-2008 21:12:32; Dark ; 34.0; 179; 240mi2CMA ; 3.03; 24000;occ; 68; 0;30830  
 7; 1623.3; 22-JAN-2008 21:14:42; Dark ; 43.0; 1; 9Alp CMA ; -1.44; 11000;occ; 86; 0;30830  
 8; 1776.4; 22-JAN-2008 21:17:15; Dark ; 39.5; 56; 53Kap Ori ; 2.07; 30000;occ; 79; 0;30830  
 9; 1910.3; 22-JAN-2008 21:19:29; Dark ; 41.5; 33; 50Zet Ori ; 1.77; 30000;occ; 83; 0;30830  
 10; 2053.8; 22-JAN-2008 21:21:53; Dark ; 52.0; 14; 58Alp Ori ; 0.87; 3000;occ; 104; 0;30830  
 11; 2187.1; 22-JAN-2008 21:24:06; Dark ; 41.5; 44; 24Gam Gem ; 1.93; 11000;occ; 83; 0;30830  
 12; 2292.7; 22-JAN-2008 21:25:52; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;30830  
 13; 2424.5; 22-JAN-2008 21:28:03; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30830  
 14; 2545.1; 22-JAN-2008 21:30:04; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;30830  
 15; 2674.1; 22-JAN-2008 21:32:13; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;30830  
 16; 3426.3; 22-JAN-2008 21:44:45; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;30830  
 17; 4084.1; 22-JAN-2008 21:55:43; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;30830  
 18; 4283.1; 22-JAN-2008 21:59:02; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;30830  
 19; 4762.5; 22-JAN-2008 22:07:01; Bright; 34.0; 59; 55Alp Oph ; 2.08; 8900;occ; 68; 0;30830  
 20; 4888.9; 22-JAN-2008 22:09:08; Bright; 34.0; 126; 60Bet Oph ; 2.77; 4250;occ; 68; 0;30830  
 21; 5257.1; 22-JAN-2008 22:15:16; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;30830

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1; -766.3; 22-JAN-2008 22:15:28; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 25;30830  
 2; -545.1; 22-JAN-2008 22:19:10; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;30830  
 3; -455.1; 22-JAN-2008 22:20:40; Dark ; 43.5; 75; 26Eps Sco ; 2.29; 4250;occ; 87; 0;30830  
 4; -361.3; 22-JAN-2008 22:22:13; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;30830  
 5; -245.8; 22-JAN-2008 22:24:09; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;30830  
 6; -150.5; 22-JAN-2008 22:25:44; Dark ; 38.5; 141; Bet Ara ; 2.84; 4600;occ; 77; 0;30830  
 7; 45.1; 22-JAN-2008 22:29:00; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;30831  
 8; 187.8; 22-JAN-2008 22:31:23; Dark ; 45.5; 10; Bet Cen ; 0.61; 28000;occ; 91; 0;30831  
 9; 305.9; 22-JAN-2008 22:33:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30831  
 10; 395.4; 22-JAN-2008 22:34:50; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;30831  
 11; 646.8; 22-JAN-2008 22:39:02; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30831  
 12; 774.5; 22-JAN-2008 22:41:09; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30831  
 13; 883.9; 22-JAN-2008 22:42:59; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;30831  
 14; 1039.1; 22-JAN-2008 22:45:34; Dark ; 44.0; 2; Alp Car ; -0.74; 7000;occ; 88; 0;30831  
 15; 1168.8; 22-JAN-2008 22:47:44; Dark ; 39.0; 70; Zet Pup ; 2.25; 39000;occ; 78; 0;30831  
 16; 1260.5; 22-JAN-2008 22:49:15; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 0;30831  
 17; 1409.8; 22-JAN-2008 22:51:45; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;30831  
 18; 1493.2; 22-JAN-2008 22:53:08; Dark ; 38.5; 179; 240mi2CMA ; 3.03; 24000;occ; 77; 0;30831  
 19; 1623.5; 22-JAN-2008 22:55:18; Dark ; 43.0; 1; 9Alp CMA ; -1.44; 11000;occ; 86; 0;30831  
 20; 1776.7; 22-JAN-2008 22:57:51; Dark ; 39.5; 56; 53Kap Ori ; 2.07; 30000;occ; 79; 0;30831  
 21; 1910.5; 22-JAN-2008 23:00:05; Dark ; 42.0; 33; 50Zet Ori ; 1.77; 30000;occ; 84; 0;30831  
 22; 2054.1; 22-JAN-2008 23:02:29; Dark ; 45.0; 14; 58Alp Ori ; 0.87; 3000;occ; 90; 0;30831  
 23; 2187.0; 22-JAN-2008 23:04:42; Dark ; 44.5; 44; 24Gam Gem ; 1.93; 11000;occ; 89; 0;30831  
 24; 2292.7; 22-JAN-2008 23:06:28; Bright; 38.5; 151; 13Mu Gem ; 2.89; 3000;occ; 77; 0;30831  
 25; 2424.7; 22-JAN-2008 23:08:39; Bright; 35.5; 28; 12Bet Tau ; 1.65; 15200;occ; 71; 0;30831  
 26; 2545.1; 22-JAN-2008 23:10:40; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;30831  
 27; 2674.2; 22-JAN-2008 23:12:49; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;30831  
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