

# GOMOS Daily Report 27-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	28JAN2008 05:40:12
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START) (27JAN2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP) (28JAN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

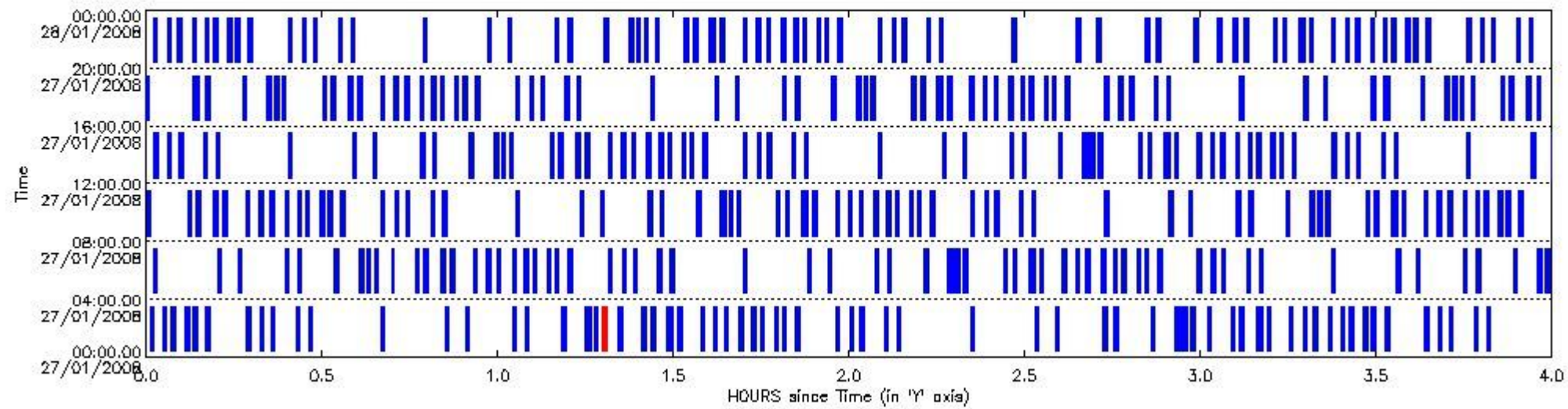
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

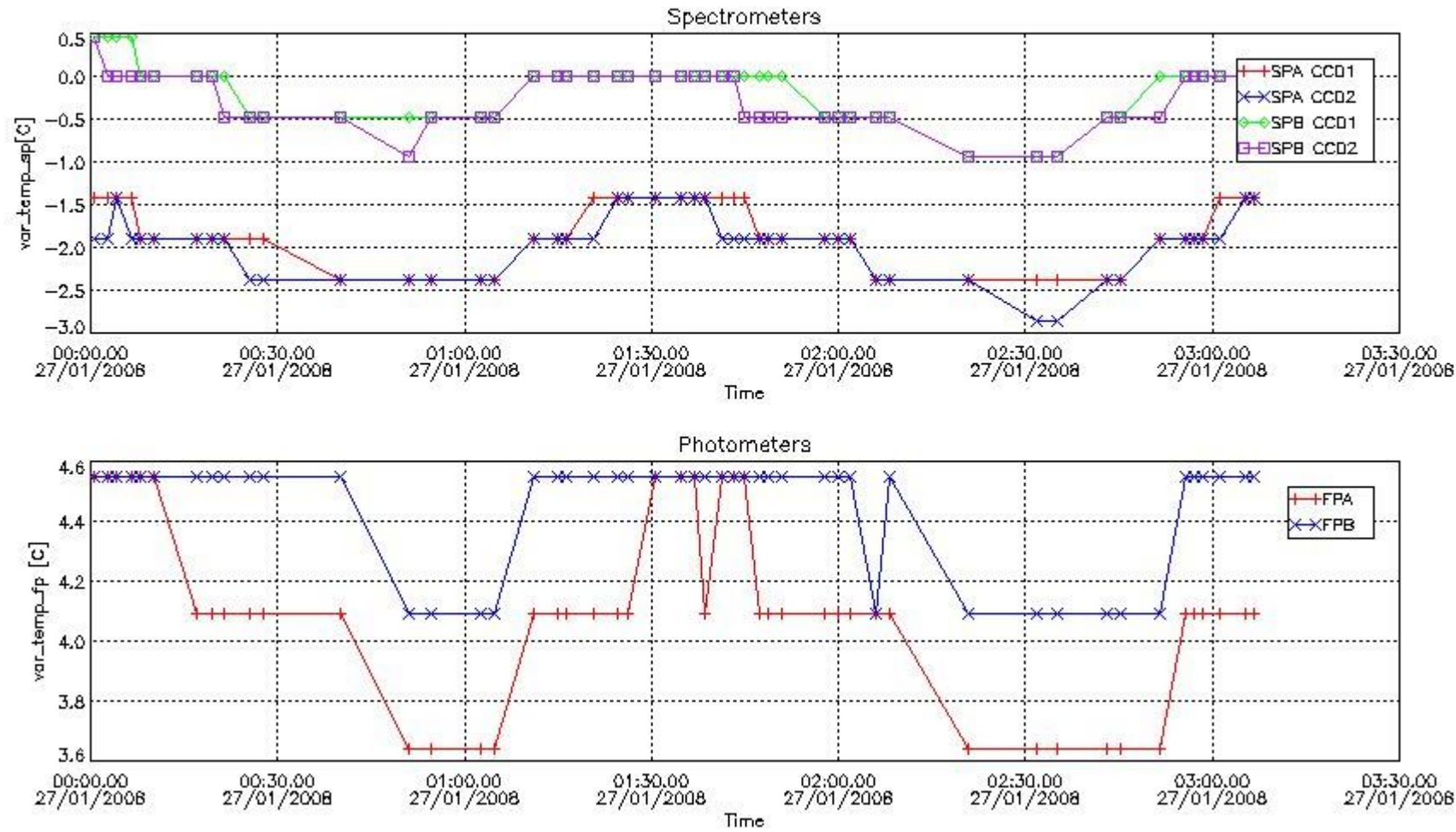
UTC start time	Star name	Star ID	Orbit
27-JAN-2008 01:17:43	TheSco	40	30889

### 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_1PNPDE20080127_000037_000000392065_00274_30889_3767.N1	27-JAN-2008 00:00:37	Dark	39.000	34	Gam2Vel	1.7930	23000.	78	30889	No
2	GOM_TRA_1PNPDE20080127_000244_000000392065_00274_30889_3768.N1	27-JAN-2008 00:02:44	Straylight	38.500	70	Zet Pup	2.2460	39000.	77	30889	No
3	GOM_TRA_1PNPDE20080127_000411_000000432065_00274_30889_3769.N1	27-JAN-2008 00:04:11	Straylight	42.500	117	Pi Pup	2.7060	3800.0	85	30889	No
4	GOM_TRA_1PNPDE20080127_000639_000000382065_00274_30889_3770.N1	27-JAN-2008 00:06:39	Straylight	38.000	23	21Eps CMa	1.5020	26000.	76	30889	No
5	GOM_TRA_1PNPDE20080127_000802_000000402065_00274_30889_3771.N1	27-JAN-2008 00:08:02	Straylight	39.500	179	24Omi2CMa	3.0320	24000.	79	30889	No
6	GOM_TRA_1PNPDE20080127_001011_000000492065_00274_30889_3772.N1	27-JAN-2008 00:10:11	Straylight	48.500	1	9Alp CMa	-1.4400	11000.	97	30889	No
7	GOM_TRA_1PNPDE20080127_001706_000000392065_00274_30889_3773.N1	27-JAN-2008 00:17:06	Twilight_stray	39.000	153	3Bet CMi	2.8940	13100.	78	30889	No
8	GOM_TRA_1PNPDE20080127_001929_000000382065_00274_30889_3774.N1	27-JAN-2008 00:19:29	Bright	38.000	44	24Gam Gem	1.9280	11000.	76	30889	No
9	GOM_TRA_1PNPDE20080127_002116_000000372065_00274_30889_3775.N1	27-JAN-2008 00:21:16	Bright	36.500	151	13Mu Gem	2.8900	3000.0	73	30889	No
10	GOM_TRA_1PNPDE20080127_002531_000000362065_00274_30889_3776.N1	27-JAN-2008 00:25:31	Bright	36.000	107	37The Aur	2.6490	11000.	72	30889	No

11	GOM_TRA_1PNPDE20080127_002738_000000362065_00274_30889_3777.N1	27-JAN-2008 00:27:38	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	30889	No
12	GOM_TRA_1PNPDE20080127_004005_000000362065_00274_30889_3778.N1	27-JAN-2008 00:40:05	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	30889	No
13	GOM_TRA_1PNPDE20080127_005105_000000382065_00274_30889_3779.N1	27-JAN-2008 00:51:05	Bright	37.500	130	23Bet Dra	2.7990	5800.0	75	30889	No
14	GOM_TRA_1PNPDE20080127_005432_000000362065_00274_30889_3780.N1	27-JAN-2008 00:54:32	Bright	36.000	5	3Alp Lyr	0.033000	11000.	72	30889	No
15	GOM_TRA_1PNPDE20080127_010235_000000352065_00274_30889_3781.N1	27-JAN-2008 01:02:35	Bright	34.500	59	55Alp Oph	2.0800	8900.0	69	30889	No
16	GOM_TRA_1PNPDE20080127_010441_000000352065_00274_30889_3782.N1	27-JAN-2008 01:04:41	Bright	35.000	126	60Bet Oph	2.7700	4250.0	70	30889	No
17	GOM_TRA_1PNPDE20080127_011057_000000402065_00274_30889_3913.N1	27-JAN-2008 01:10:57	Twilight	40.000	86	35Eta Oph	2.4300	10200.	80	30889	No
18	GOM_TRA_1PNPDE20080127_011501_000000552065_00274_30889_3914.N1	27-JAN-2008 01:15:01	Dark	55.000	16	21Alp Sco	1.0200	3000.0	110	30889	No
19	GOM_TRA_1PNPDE20080127_011623_000000422065_00274_30889_3915.N1	27-JAN-2008 01:16:23	Dark	42.000	75	26Eps Sco	2.2910	4250.0	84	30889	No
20	GOM_TRA_1PNPDE20080127_012039_000000362065_00274_30889_3916.N1	27-JAN-2008 01:20:39	Dark	36.000	131	Gam Lup	2.8000	26000.	72	30889	No
21	GOM_TRA_1PNPDE20080127_012438_000000382065_00275_30890_3917.N1	27-JAN-2008 01:24:38	Dark	38.000	134	Bet TrA	2.8100	6600.0	76	30890	No
22	GOM_TRA_1PNPDE20080127_012608_000000432065_00275_30890_3918.N1	27-JAN-2008 01:26:08	Dark	43.000	4	Alp1Cen	-0.010000	5800.0	86	30890	No
23	GOM_TRA_1PNPDE20080127_013042_000000452065_00275_30890_3919.N1	27-JAN-2008 01:30:42	Dark	45.000	12	Alp1Cru	0.77500	30000.	90	30890	No
24	GOM_TRA_1PNPDE20080127_013437_000000372065_00275_30890_3920.N1	27-JAN-2008 01:34:37	Dark	37.000	29	Bet Car	1.6720	10200.	74	30890	No
25	GOM_TRA_1PNPDE20080127_013651_000000382065_00275_30890_3921.N1	27-JAN-2008 01:36:51	Dark	37.500	71	lot Car	2.2460	7700.0	75	30890	No
26	GOM_TRA_1PNPDE20080127_013839_000000442065_00275_30890_3922.N1	27-JAN-2008 01:38:39	Dark	43.500	46	Del Vel	1.9540	10600.	87	30890	No
27	GOM_TRA_1PNPDE20080127_014114_000000422065_00275_30890_3923.N1	27-JAN-2008 01:41:14	Dark	42.000	34	Gam2Vel	1.7930	23000.	84	30890	No
28	GOM_TRA_1PNPDE20080127_014320_000000432065_00275_30890_3924.N1	27-JAN-2008 01:43:20	Straylight	42.500	70	Zet Pup	2.2460	39000.	85	30890	No
29	GOM_TRA_1PNPDE20080127_014447_000000452065_00275_30890_3925.N1	27-JAN-2008 01:44:47	Straylight	45.000	117	Pi Pup	2.7060	3800.0	90	30890	No
30	GOM_TRA_1PNPDE20080127_014715_000000422065_00275_30890_3926.N1	27-JAN-2008 01:47:15	Straylight	42.000	23	21Eps CMa	1.5020	26000.	84	30890	No
31	GOM_TRA_1PNPDE20080127_014838_000000392065_00275_30890_3927.N1	27-JAN-2008 01:48:38	Straylight	39.000	179	24Omi2CMa	3.0320	24000.	78	30890	No
32	GOM_TRA_1PNPDE20080127_015047_000000452065_00275_30890_3928.N1	27-JAN-2008 01:50:47	Straylight	44.500	1	9Alp CMa	-1.4400	11000.	89	30890	No
33	GOM_TRA_1PNPDE20080127_015742_000000402065_00275_30890_3929.N1	27-JAN-2008 01:57:42	Twilight	40.000	153	3Bet CMi	2.8940	13100.	80	30890	No
34	GOM_TRA_1PNPDE20080127_020004_000000412065_00275_30890_3930.N1	27-JAN-2008 02:00:04	Bright	40.500	44	24Gam Gem	1.9280	11000.	81	30890	No
35	GOM_TRA_1PNPDE20080127_020152_000000392065_00275_30890_3931.N1	27-JAN-2008 02:01:52	Bright	39.000	151	13Mu Gem	2.8900	3000.0	78	30890	No
36	GOM_TRA_1PNPDE20080127_020607_000000362065_00275_30890_3932.N1	27-JAN-2008 02:06:07	Bright	35.500	107	37The Aur	2.6490	11000.	71	30890	No
37	GOM_TRA_1PNPDE20080127_020814_000000362065_00275_30890_3933.N1	27-JAN-2008 02:08:14	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	30890	No
38	GOM_TRA_1PNPDE20080127_022041_000000322065_00275_30890_3934.N1	27-JAN-2008 02:20:41	Bright	31.500	49	1Alp UMi	1.9900	6300.0	63	30890	No
39	GOM_TRA_1PNPDE20080127_023141_000000362065_00275_30890_4083.N1	27-JAN-2008 02:31:41	Bright	35.500	130	23Bet Dra	2.7990	5800.0	71	30890	No
40	GOM_TRA_1PNPDE20080127_023508_000000372065_00275_30890_4084.N1	27-JAN-2008 02:35:08	Bright	36.500	5	3Alp Lyr	0.033000	11000.	73	30890	No
41	GOM_TRA_1PNPDE20080127_024311_000000532065_00275_30890_4085.N1	27-JAN-2008 02:43:11	Bright	53.000	59	55Alp Oph	2.0800	8900.0	106	30890	No
42	GOM_TRA_1PNPDE20080127_024518_000000352065_00275_30890_4086.N1	27-JAN-2008 02:45:18	Bright	34.500	126	60Bet Oph	2.7700	4250.0	69	30890	No
43	GOM_TRA_1PNPDE20080127_025133_000000412065_00275_30890_4087.N1	27-JAN-2008 02:51:33	Twilight	41.000	86	35Eta Oph	2.4300	10200.	82	30890	No
44	GOM_TRA_1PNPDE20080127_025537_000000572065_00275_30890_4088.N1	27-JAN-2008 02:55:37	Dark	56.500	16	21Alp Sco	1.0200	3000.0	113	30890	No
45	GOM_TRA_1PNPDE20080127_025700_000000442065_00275_30890_4089.N1	27-JAN-2008 02:57:00	Dark	44.000	75	26Eps Sco	2.2910	4250.0	88	30890	No
46	GOM_TRA_1PNPDE20080127_025820_000000392065_00275_30890_4090.N1	27-JAN-2008 02:58:20	Dark	38.500	40	The Sco	1.8590	7100.0	77	30890	No
47	GOM_TRA_1PNPDE20080127_030115_000000282065_00275_30890_4091.N1	27-JAN-2008 03:01:15	Dark	28.000	131	Gam Lup	2.8000	26000.	56	30890	No
48	GOM_TRA_1PNPDE20080127_030514_000000382065_00276_30891_4092.N1	27-JAN-2008 03:05:14	Dark	38.000	134	Bet TrA	2.8100	6600.0	76	30891	No
49	GOM_TRA_1PNPDE20080127_030644_000000422065_00276_30891_4093.N1	27-JAN-2008 03:06:44	Dark	41.500	4	Alp1Cen	-0.010000	5800.0	83	30891	No

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



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

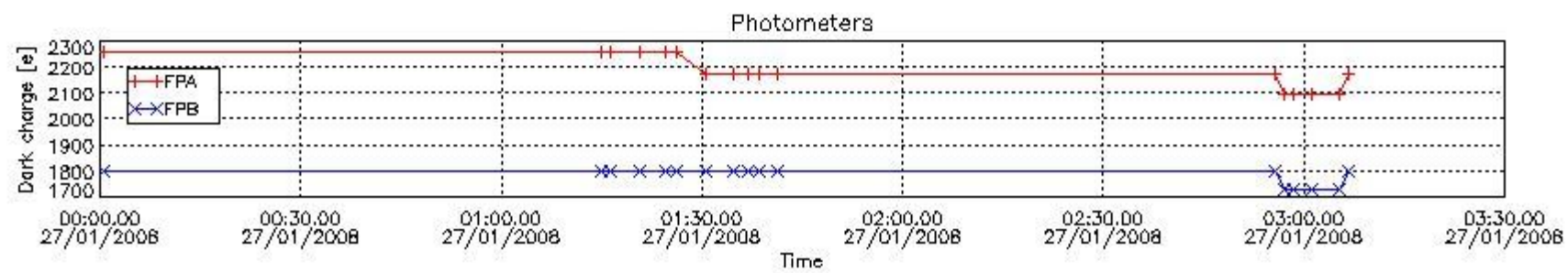
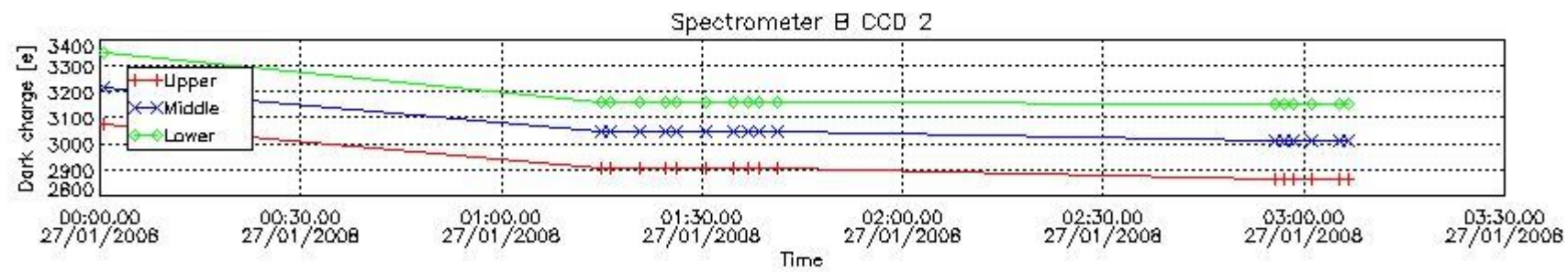
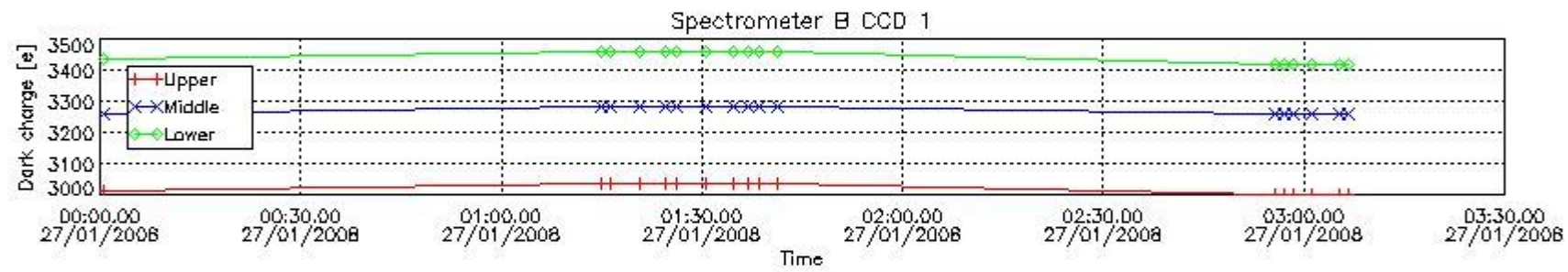
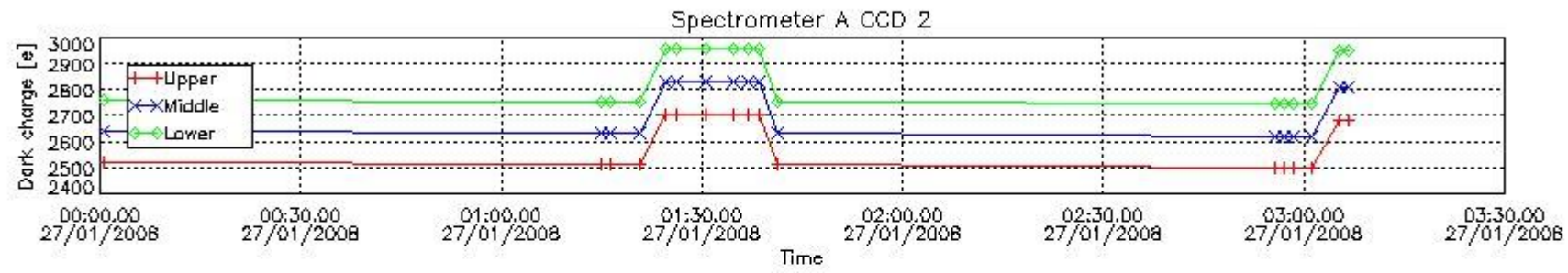
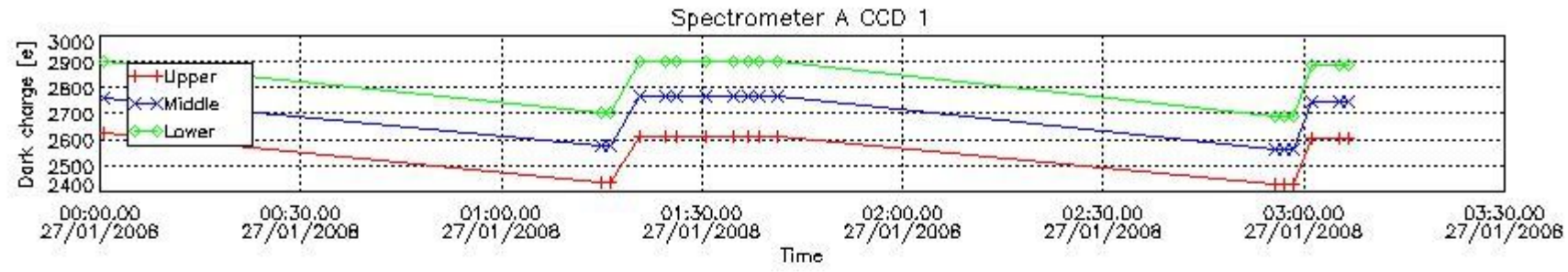
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

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

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

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





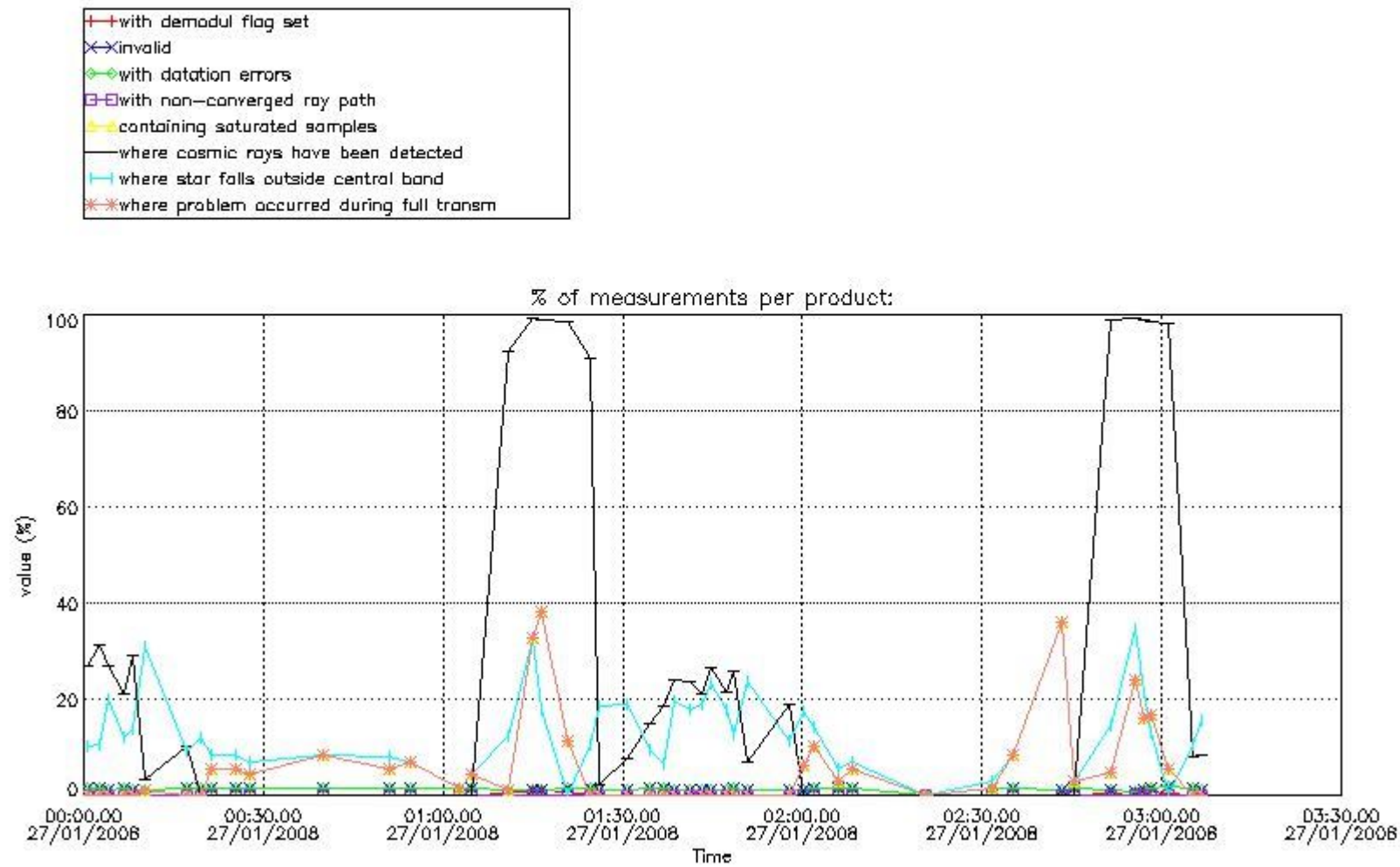
## 5. Demodulation flag and quality information monitoring

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

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

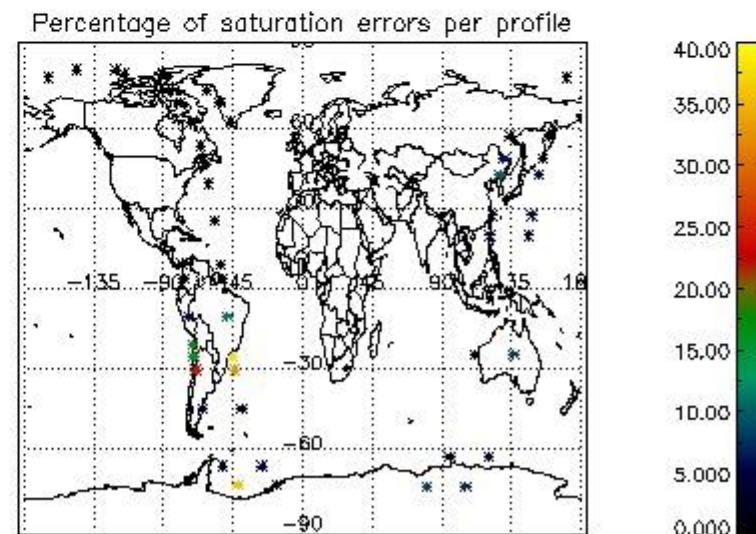
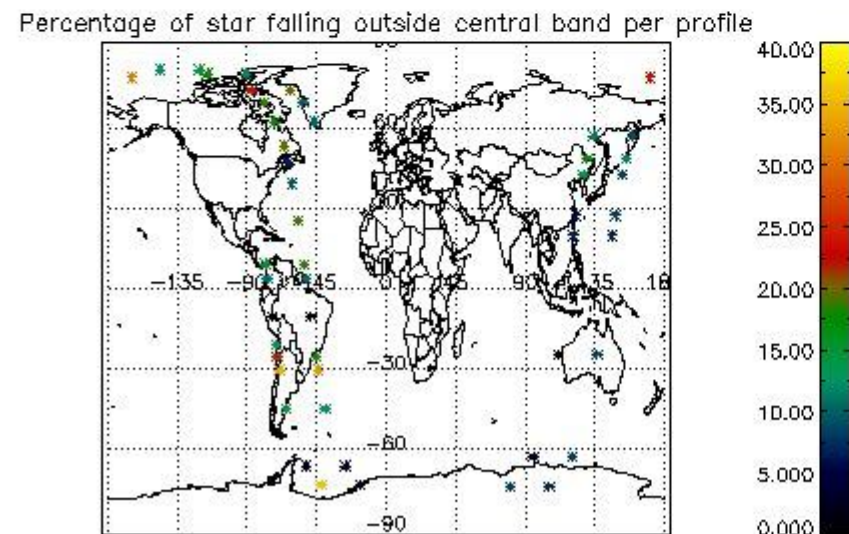
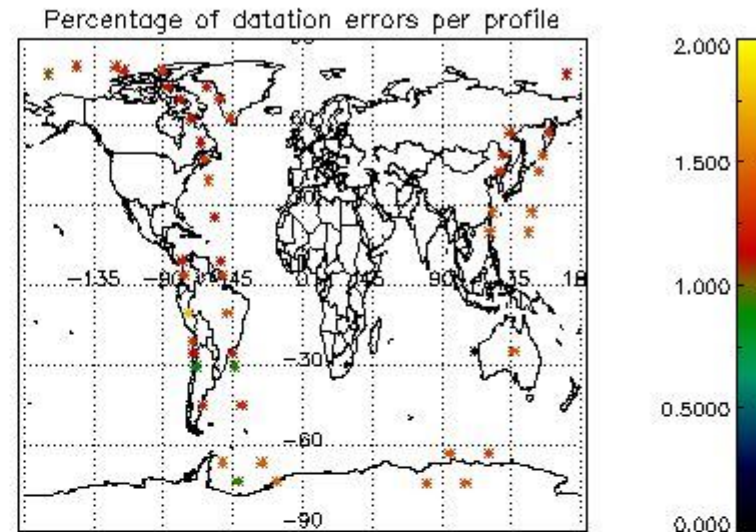
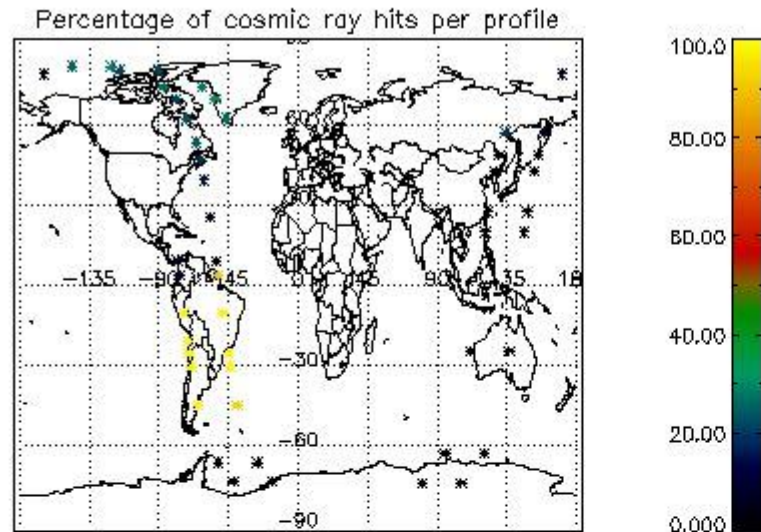
At least one measurement with demodulation flag set:	36.7347 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





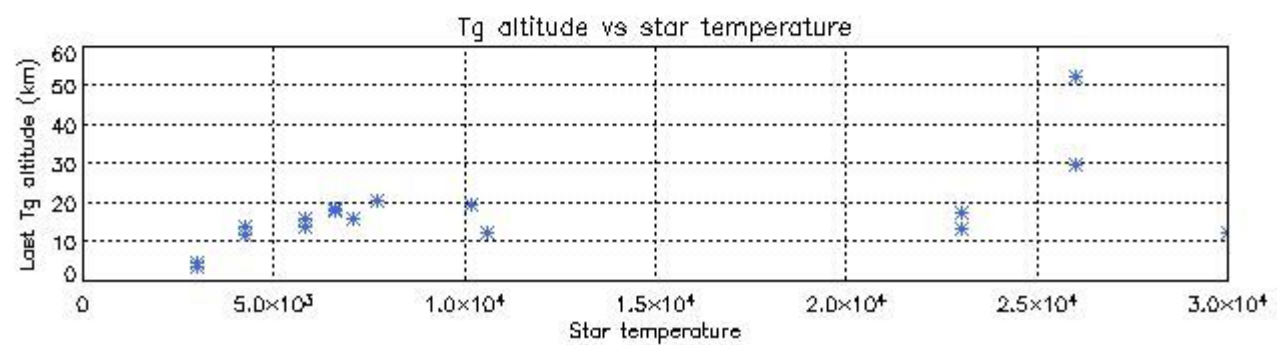
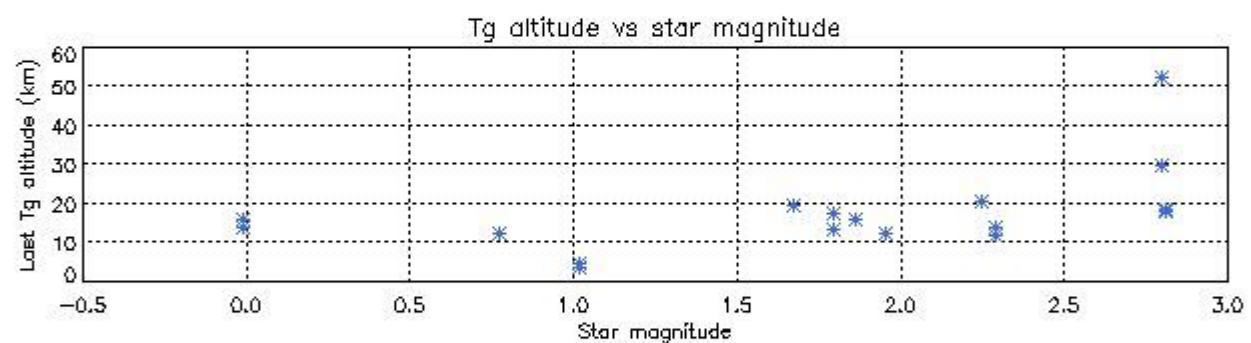
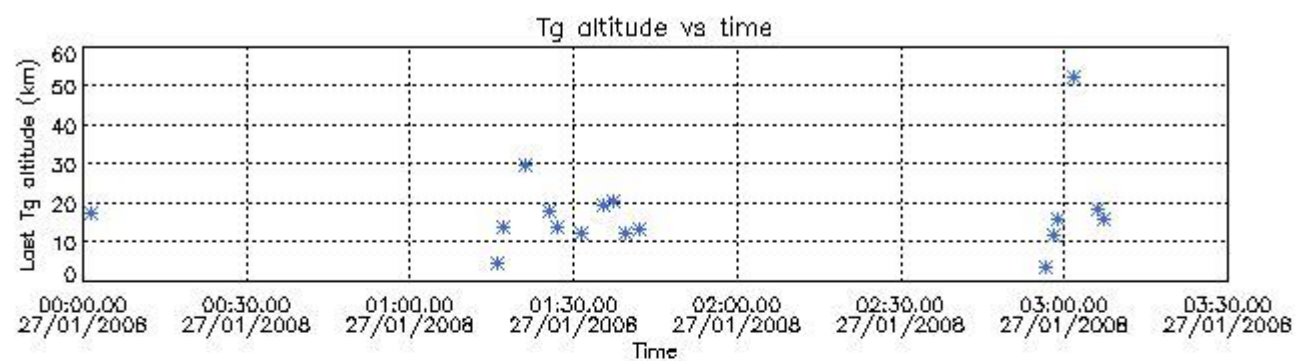
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.242	19.383	NaN
St. deviation:	10.798	5.4627	NaN
Maximum:	52.285	31.192	NaN
Minimum:	3.5735	4.4223	NaN
Number of data:	17.000	18.000	NaN

### 6.2 Plot for DARK limb products

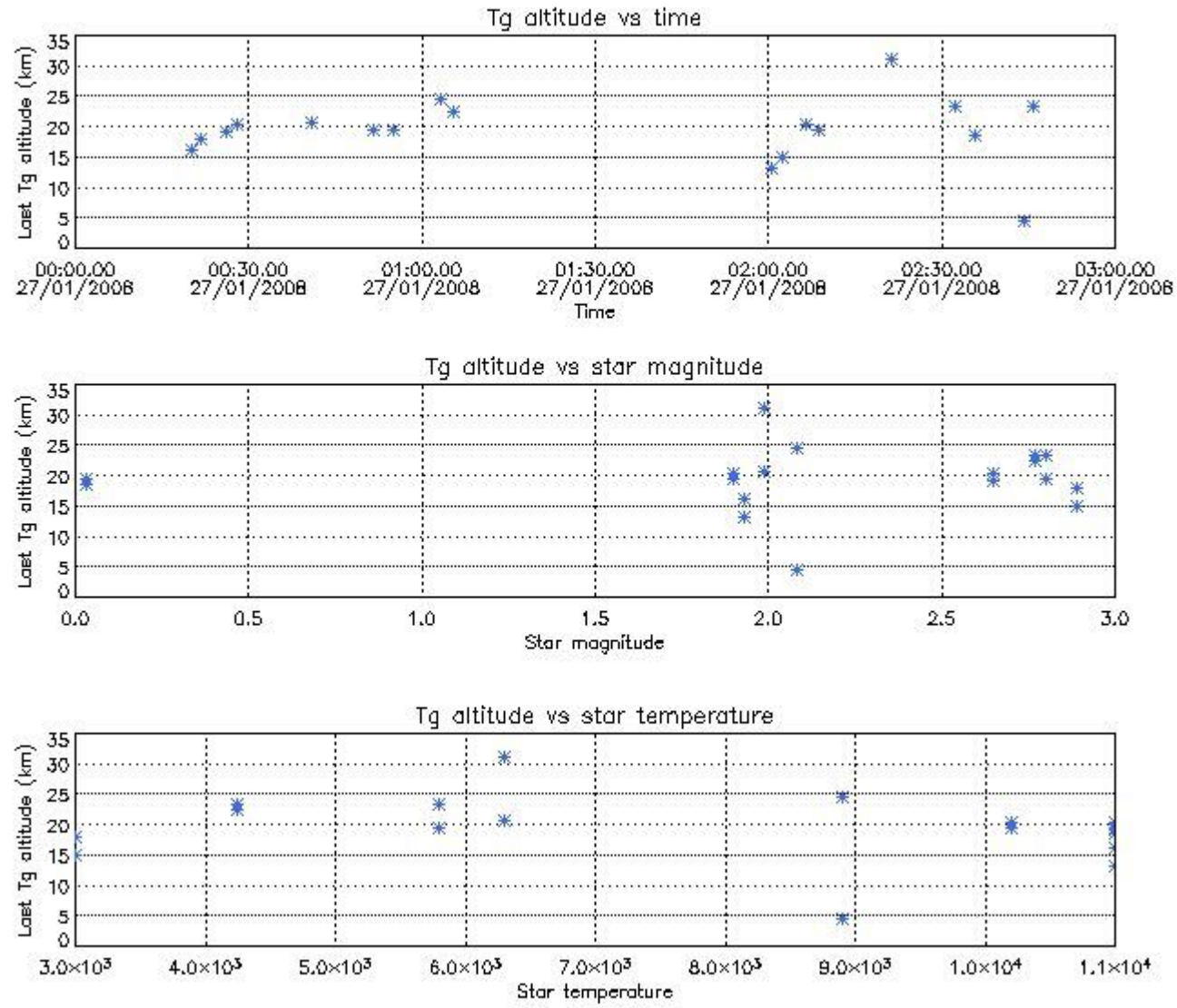
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

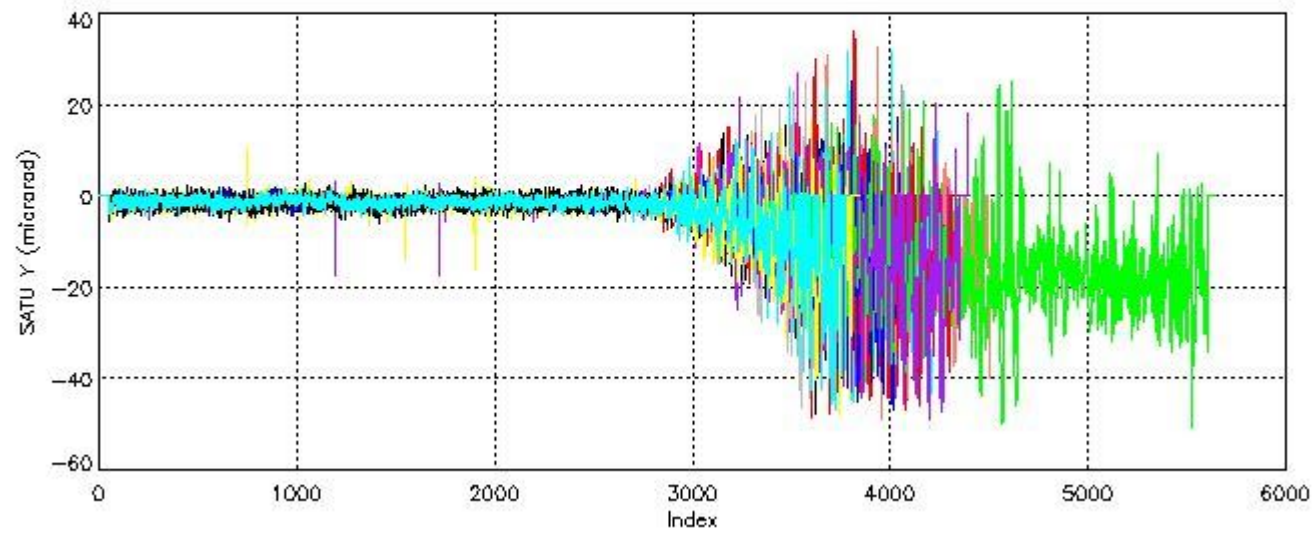
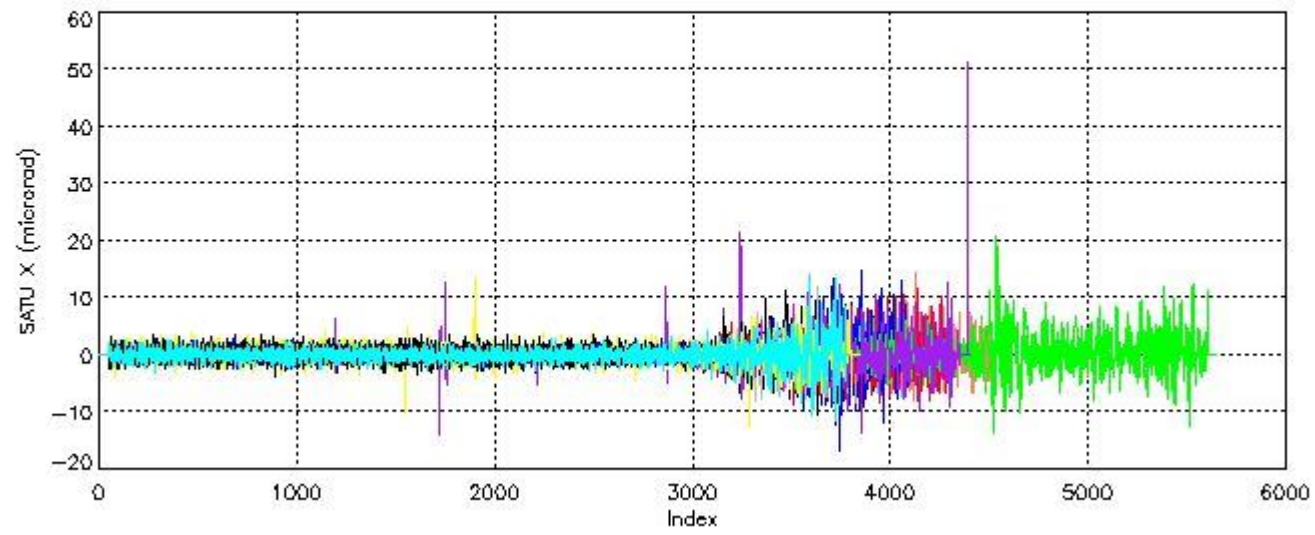


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.067145	-1.2815	-0.027911	-1.3508
St. deviation:	0.49204	0.75183	0.62595	0.91315
Maximum:	3.7000	10.500	3.8000	2.2000
Minimum:	-3.7000	-6.6000	-4.2000	-6.1000

Number of data:	15300.	15300.	14700.	14700.
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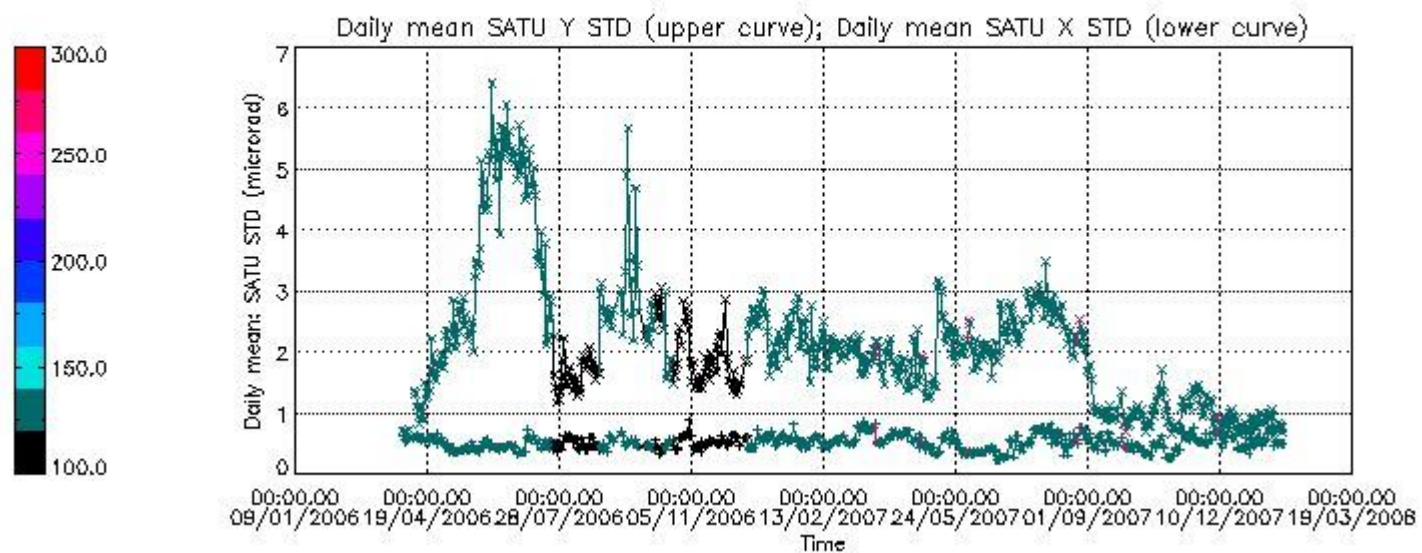
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

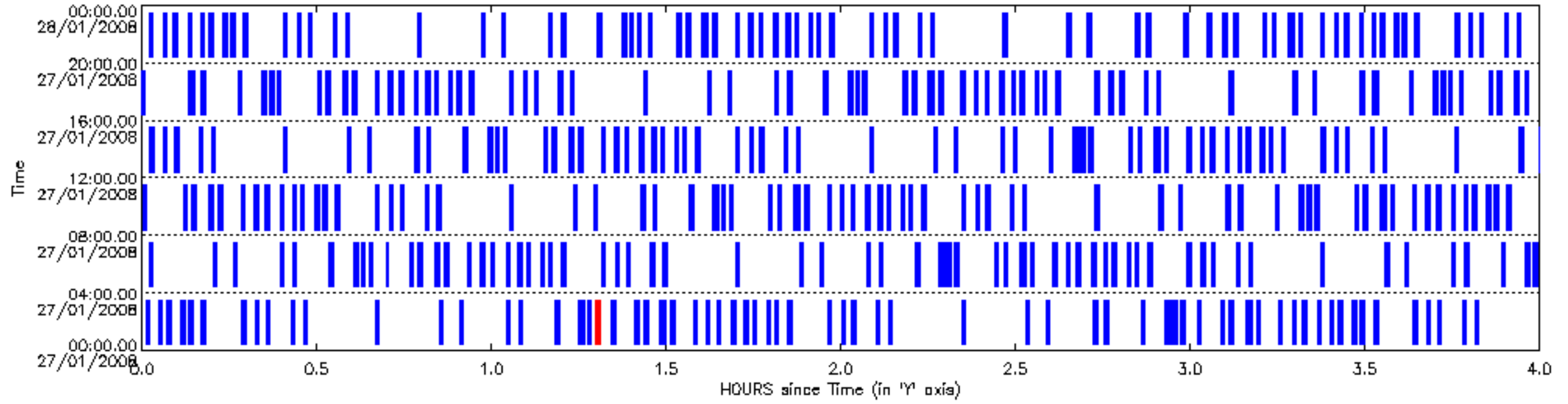


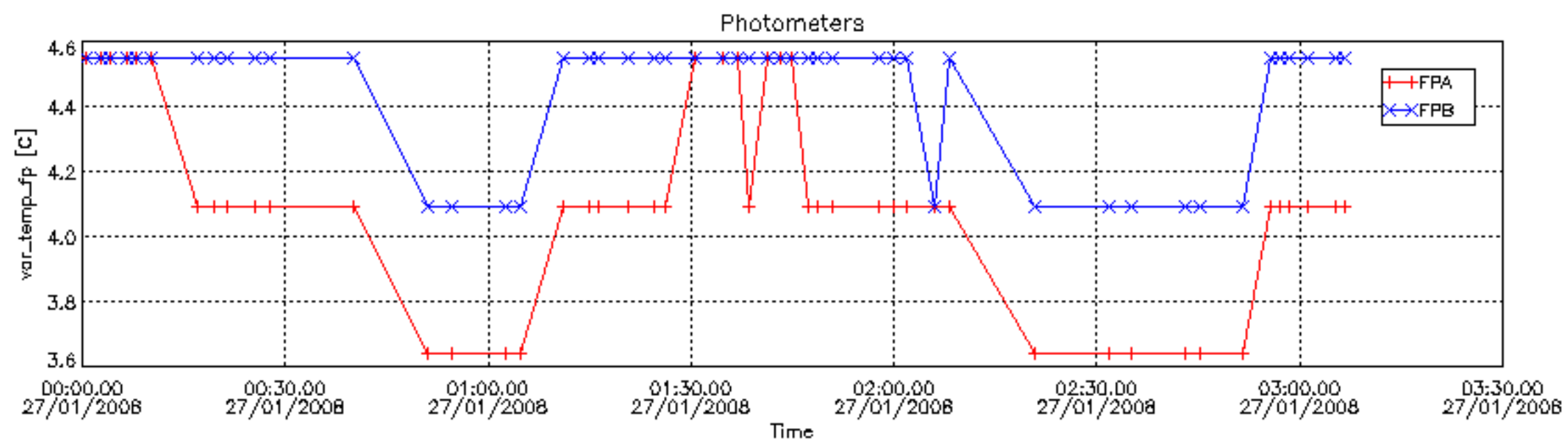
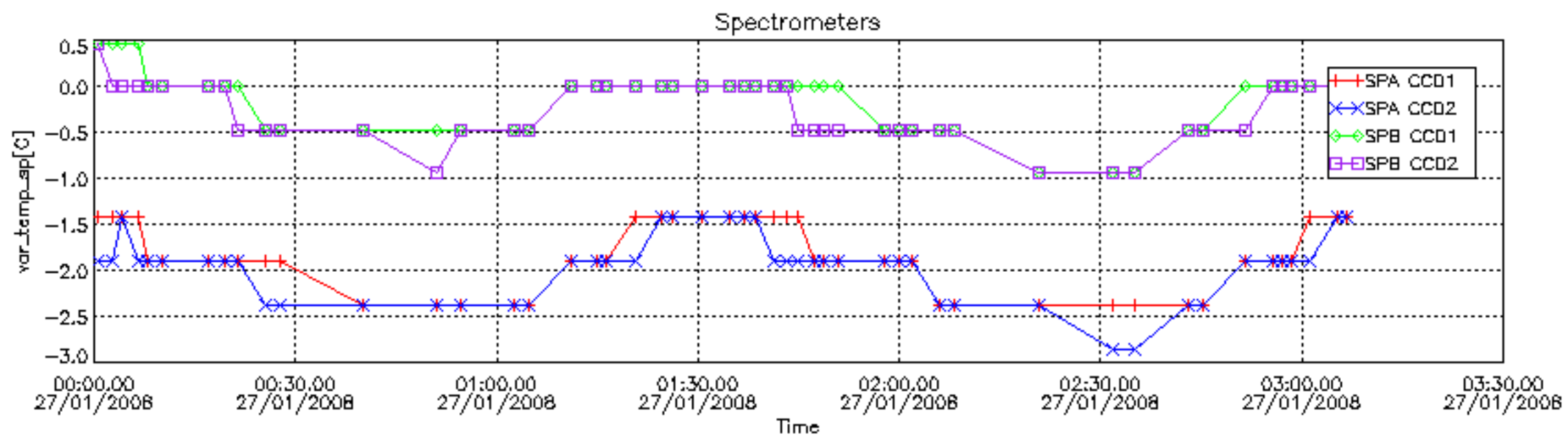
### 8. Auxiliary Data Files used for the production reported in section 2.4

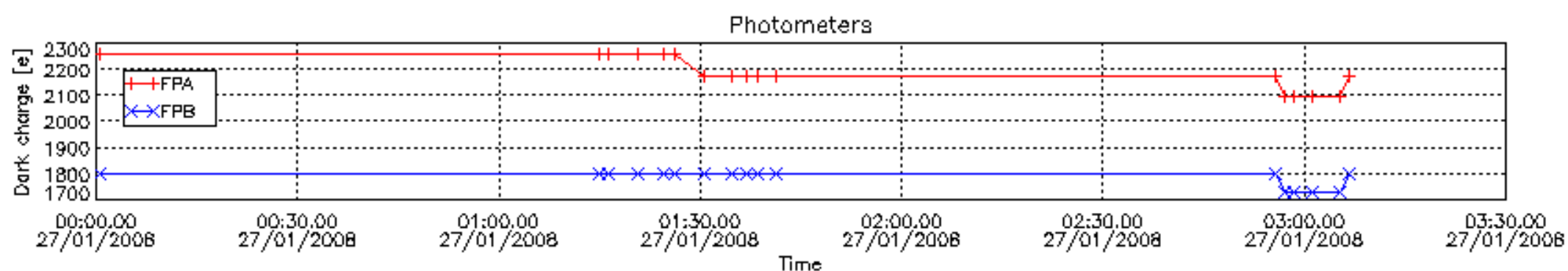
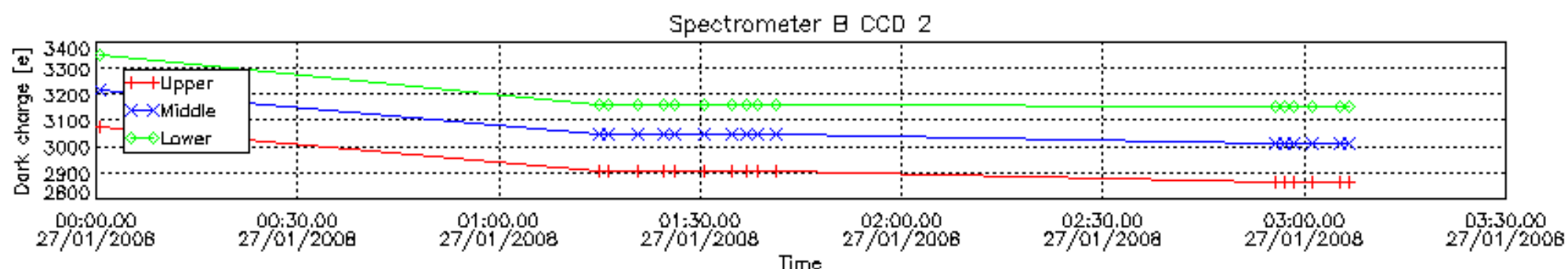
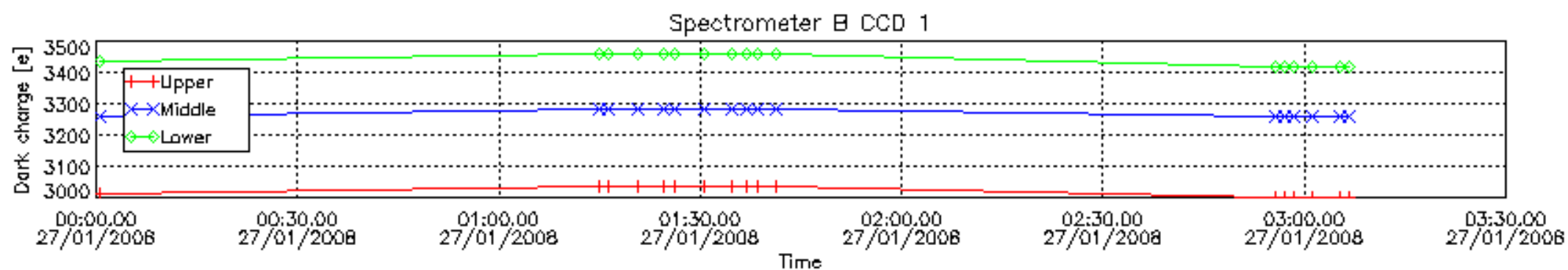
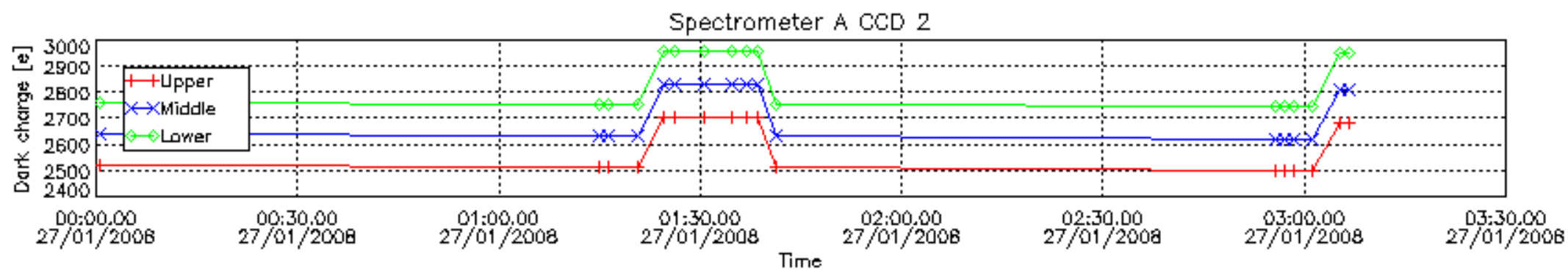
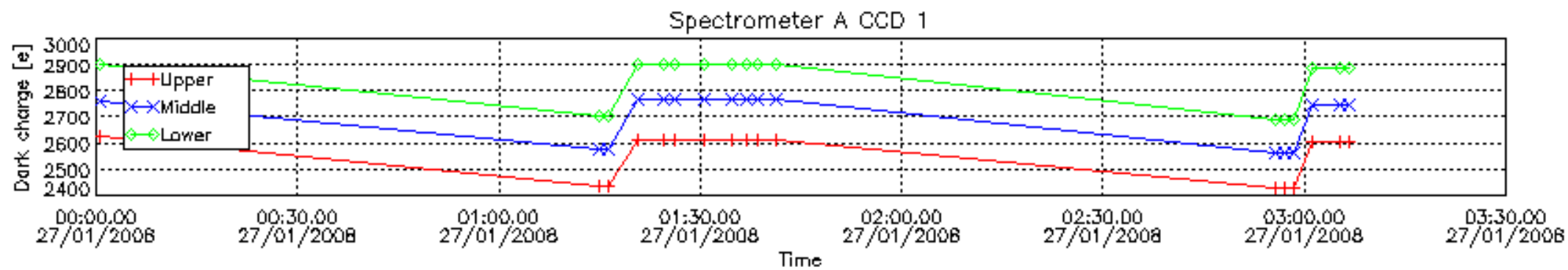
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	27-JAN-2008 00:00:37
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080118_162059_20080116_000000_20100101_000000	1	27-JAN-2008 00:00:37
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	27-JAN-2008 00:00:37
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	27-JAN-2008 00:00:37
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	27-JAN-2008 00:00:37
ECMWF_FILE	AUX_ECF_AXNECM20080126_073111_20080126_210000_20080127_090000	1	27-JAN-2008 00:00:37
OPTIONAL_ECMWF_FILE	MISSING	1	27-JAN-2008 00:00:37
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080126_214643_000057382065_00272_30887_5024.N1	1	27-JAN-2008 00:00:37
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080126_232740_000057382065_00273_30888_5025.N1	17	27-JAN-2008 01:10:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080127_010837_000044632065_00274_30889_5026.N1	39	27-JAN-2008 02:31:41





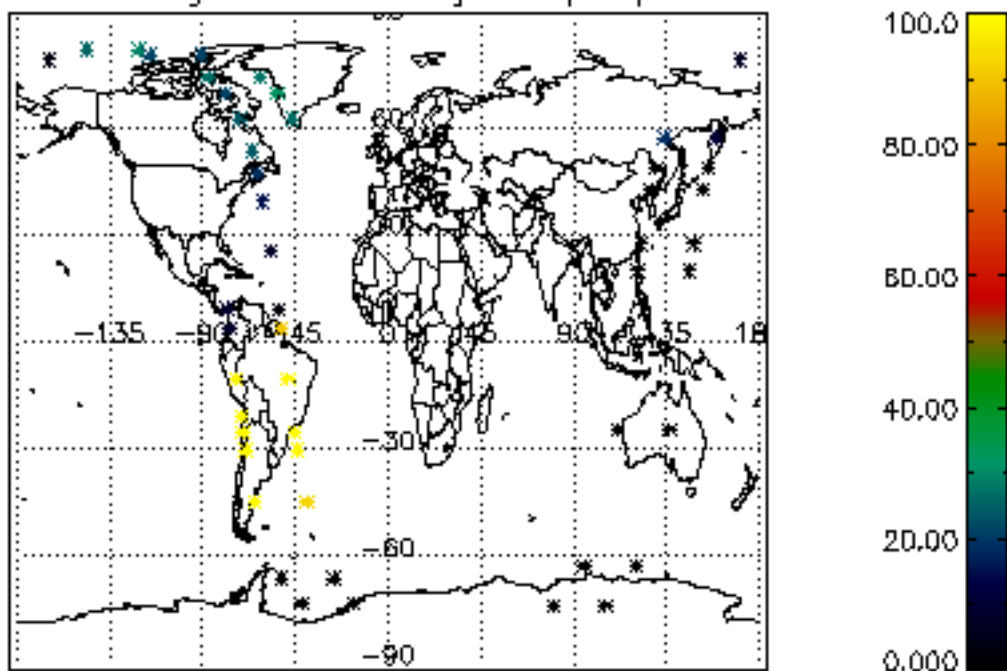




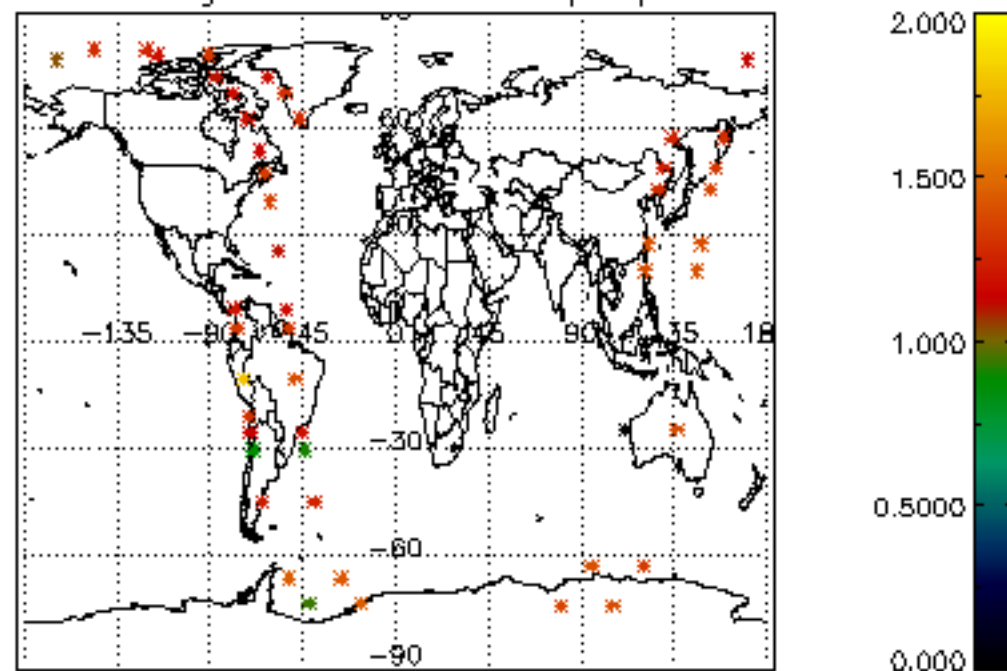




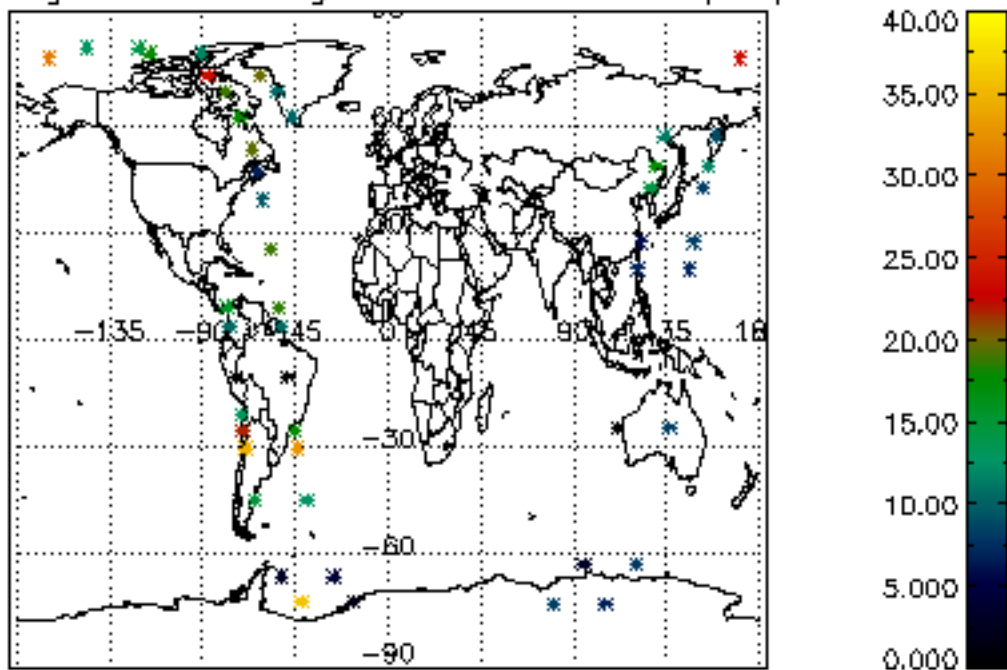
Percentage of cosmic ray hits per profile



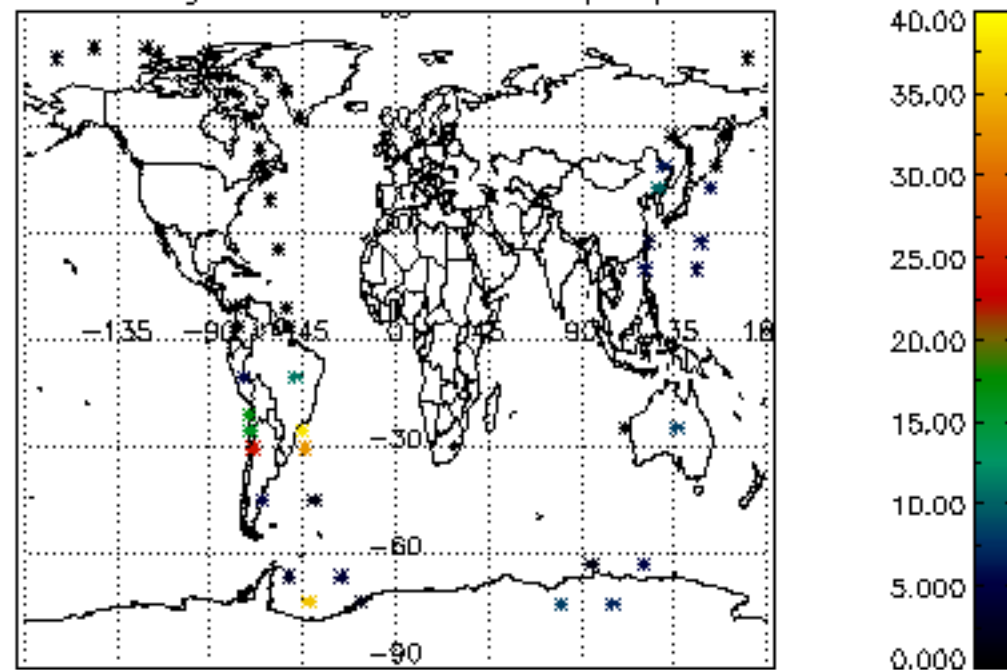
Percentage of datation errors per profile



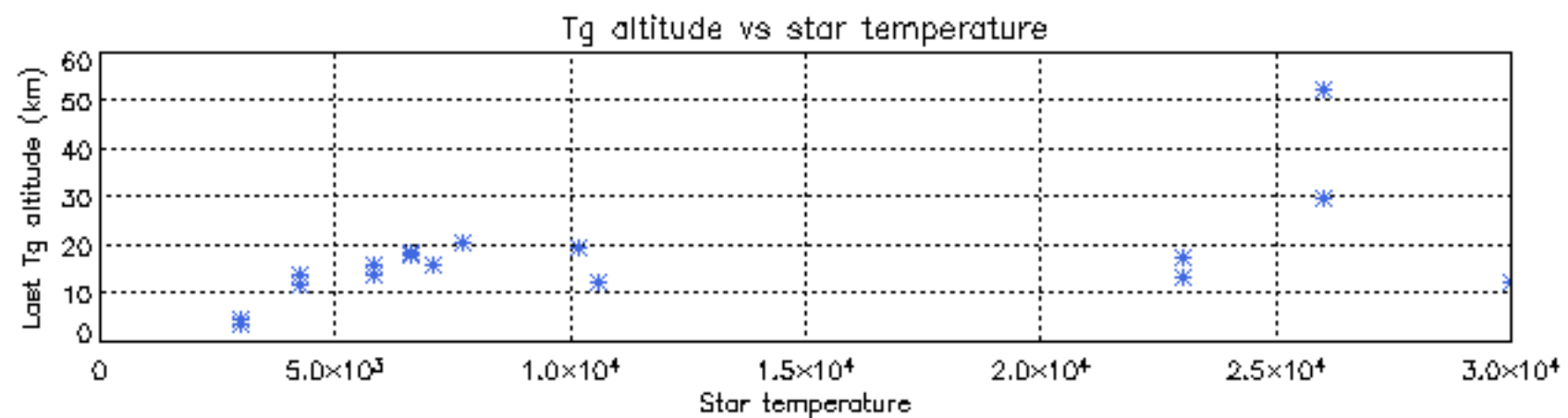
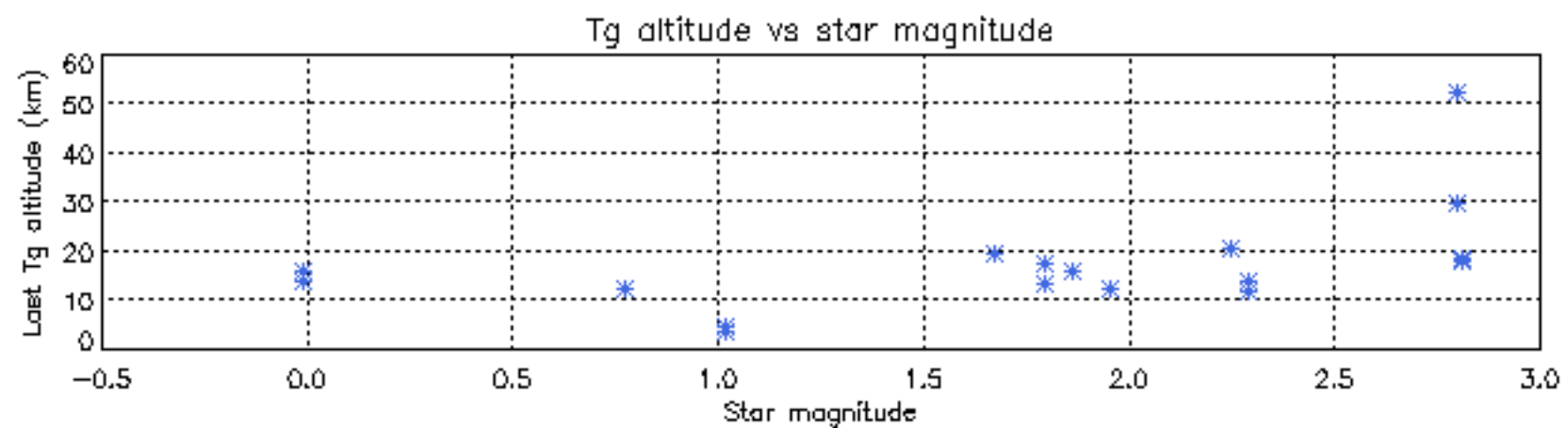
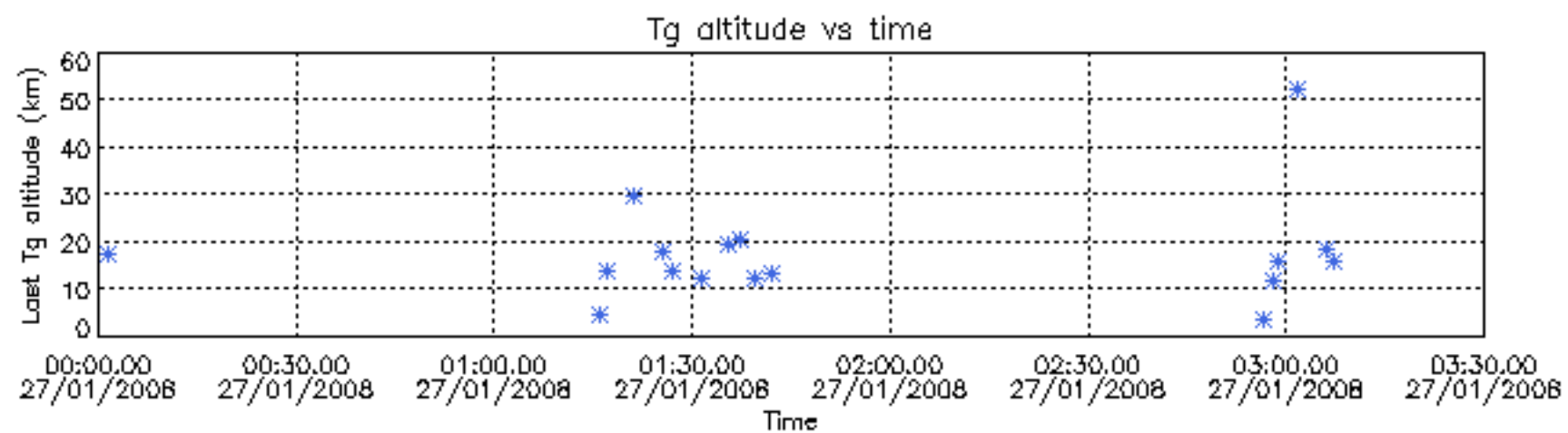
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

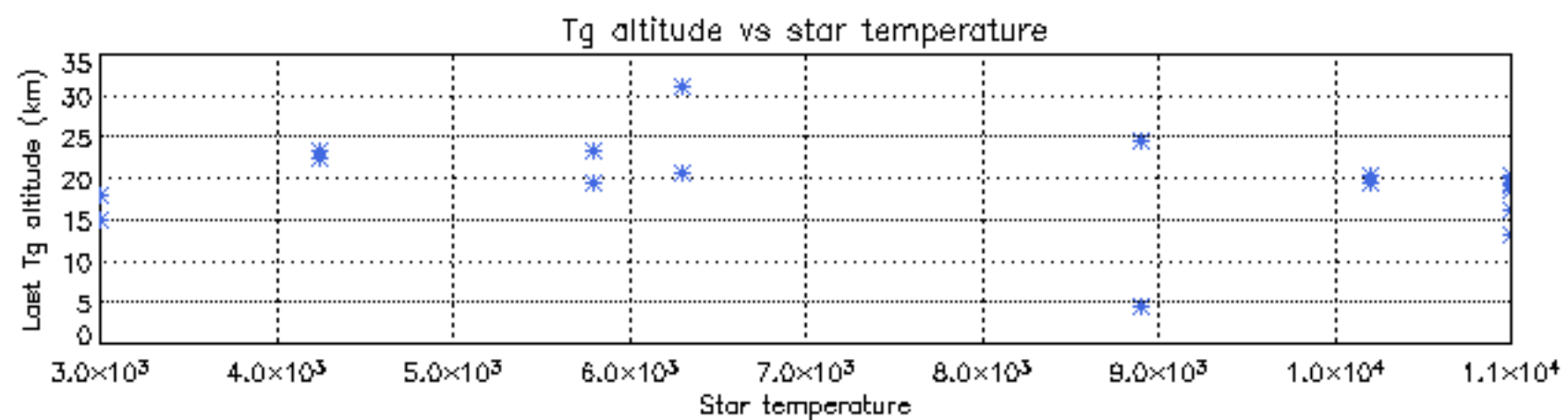
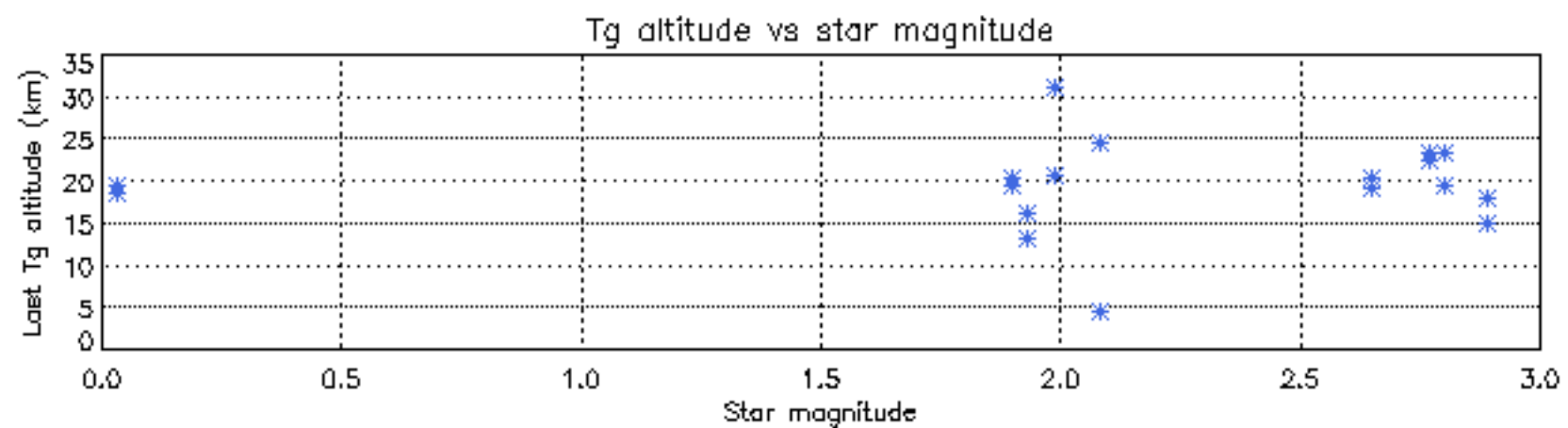
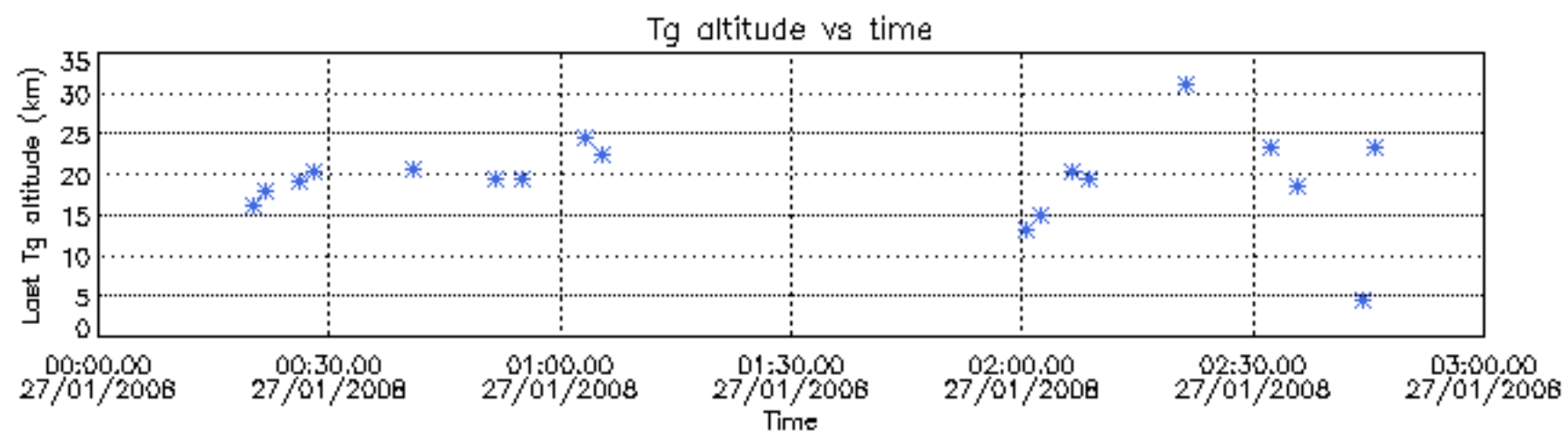


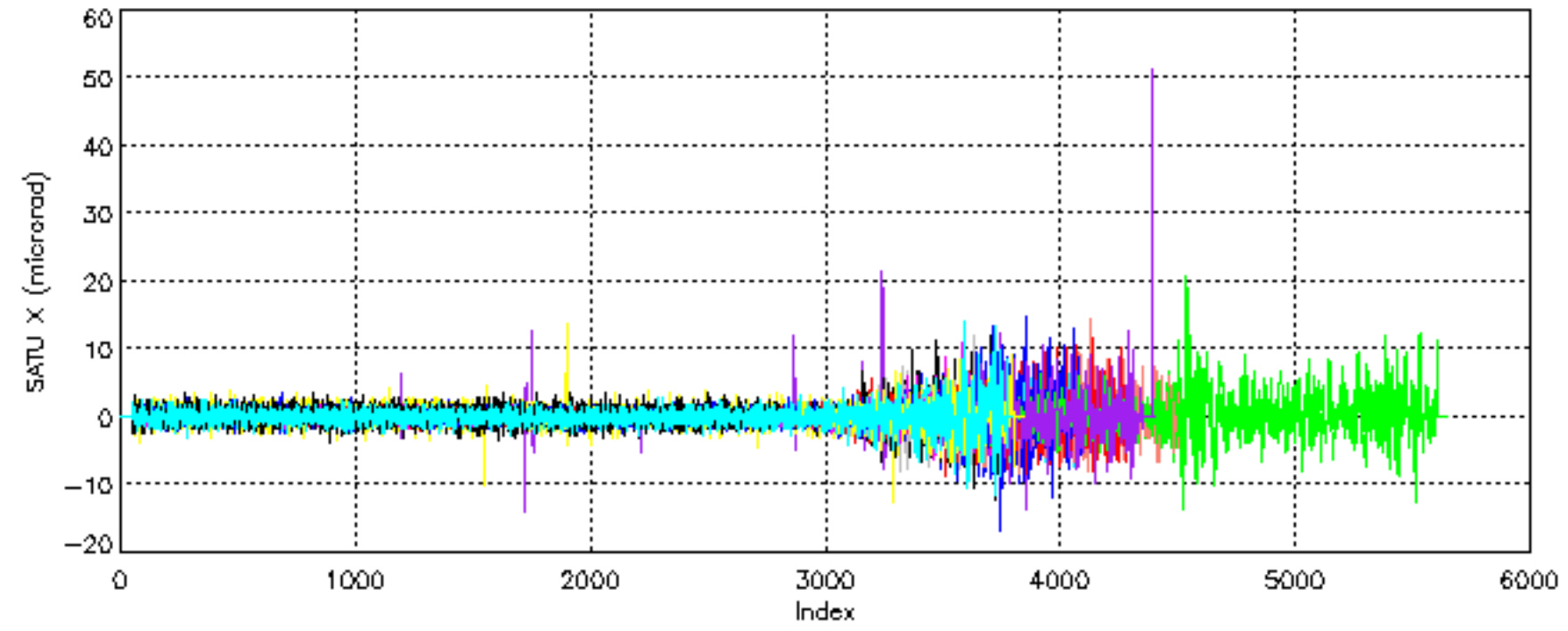
Tangent altitude at which the star is lost

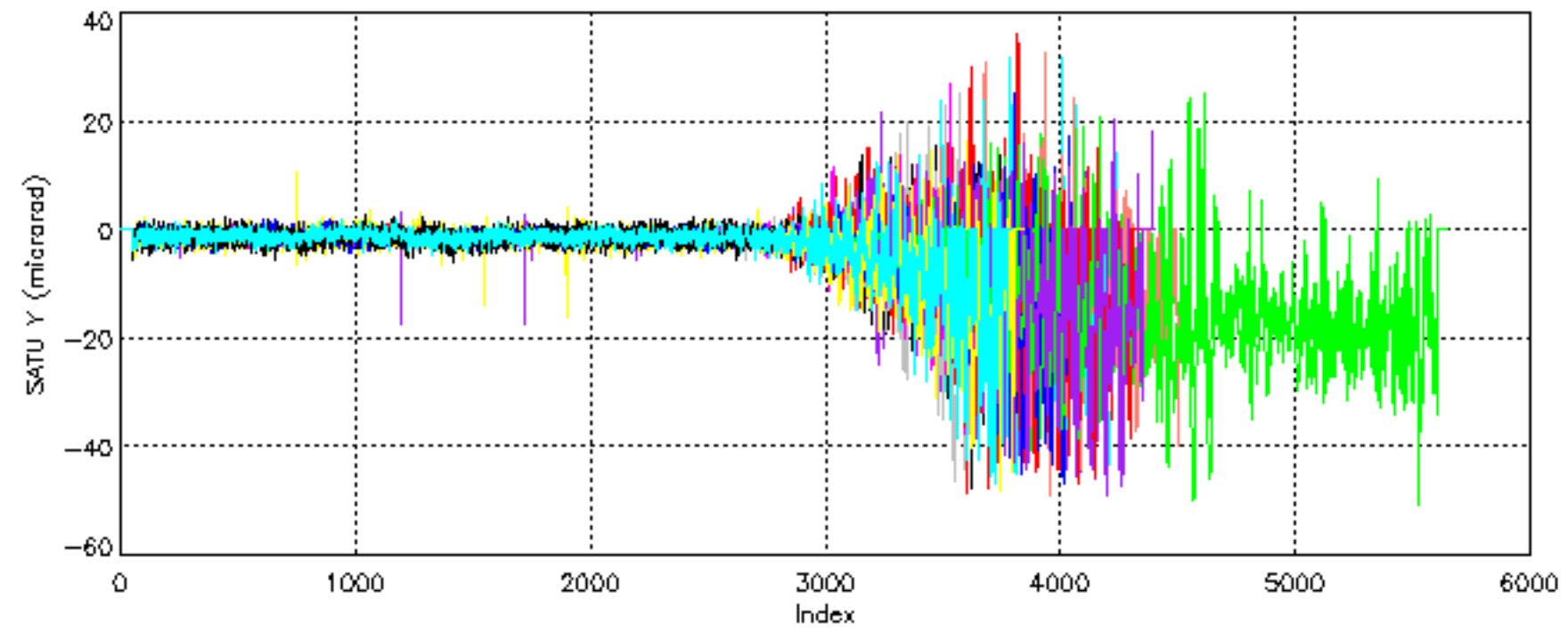




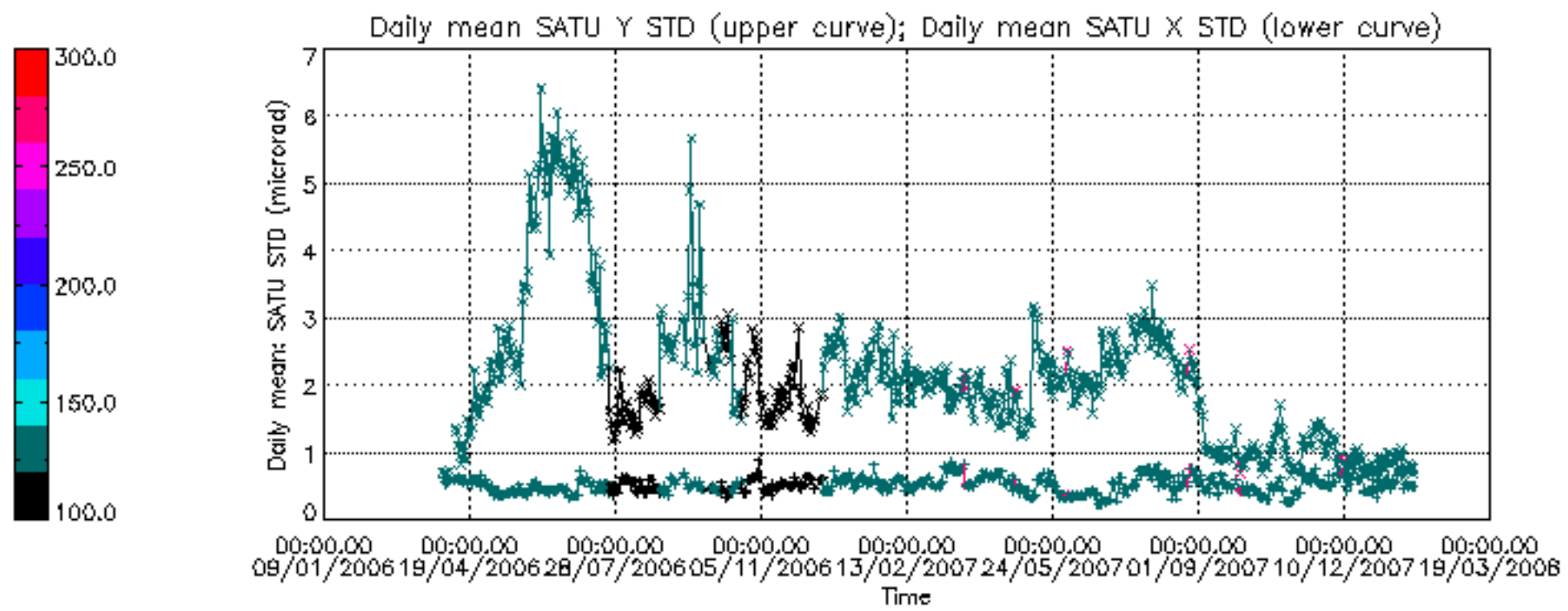
Tangent altitude at which the star is lost











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 3; -2.6; 01-JAN-2008 01:40:47; Dark ; 40.5; 4; Alp1Cen ;-0.01; 5800;occ; 81; 0;30517  
 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  
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 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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27; 2398.0; 01-JAN-2008 05:41:59; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30520
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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
13; -105.3; 01-JAN-2008 06:40:52; Dark ; 39.5; 95; Zet Cen ; 2.55; 26000;occ; 79; 0;30520
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19; 724.4; 01-JAN-2008 06:54:41; Dark ; 54.0; 41; Eps Car ; 1.86; 4100;occ; 108; 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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12; 4048.1; 01-JAN-2008 07:50:05; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;30521
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15; 4889.9; 01-JAN-2008 08:04:07; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;30521
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27; 6673.4; 02-JAN-2008 09:42:49; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;30536
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23; 6272.6; 02-JAN-2008 11:16:44; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;30537
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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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29; 7359.6; 02-JAN-2008 11:34:51; Dark ; 38.0; 108; Alp Col ; 2.65; 15200;occ; 76; 0;30537
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 26; 6674.4; 02-JAN-2008 13:04:02; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30538  
 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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27; 2396.2; 03-JAN-2008 04:38:43; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;30548
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4; 1574.4; 03-JAN-2008 21:11:01; Dark ; 42.0; 47; 2Bet CMA ; 1.98; 28000;occ; 84; 0;30558
5; 1774.5; 03-JAN-2008 21:14:21; Dark ; 43.0; 7; 19Bet Ori ; 0.10; 14000;occ; 86; 0;30558
6; 1883.9; 03-JAN-2008 21:16:10; Dark ; 40.5; 30; 46Eps Ori ; 1.69; 30000;occ; 81; 0;30558
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9; 2395.6; 03-JAN-2008 21:24:42; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30558
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12; 3423.6; 03-JAN-2008 21:41:50; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30558
13; 3687.4; 03-JAN-2008 21:46:14; Bright; 33.0; 60; 7Bet UMi ; 2.08; 3950;occ; 66; 0;30558
14; 3923.4; 03-JAN-2008 21:50:10; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30558
15; 4054.4; 03-JAN-2008 21:52:21; Bright; 33.0; 130; 23Bet Dra ; 2.80; 5800;occ; 66; 0;30558
16; 4427.4; 03-JAN-2008 21:58:34; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;30558
17; 4552.2; 03-JAN-2008 22:00:39; Bright; 38.0; 67; 5Alp CrB ; 2.22; 11000;occ; 76; 0;30558
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19; 5038.4; 03-JAN-2008 22:08:45; Bright; 52.0; 120; 1Del Oph ; 2.73; 3200;occ; 104; 0;30558
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13; 3423.8; 04-JAN-2008 21:10:13; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30572
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24; 2689.9; 04-JAN-2008 22:38:35; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;30573
25; 3423.8; 04-JAN-2008 22:50:49; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30573
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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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13; 4428.7; 04-JAN-2008 09:42:47; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 0;30565  
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16; 5040.4; 04-JAN-2008 09:52:58; Bright; 35.0; 120; 1Del Oph ; 2.73; 3200;occ; 70; 0;30565  
17; 5214.0; 04-JAN-2008 09:55:52; Bright; 57.0; 104; 27Bet Lib ; 2.61; 13100;occ; 114; 0;30565  
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22; 5959.1; 04-JAN-2008 10:08:17; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;30565  
23; 6049.0; 04-JAN-2008 10:09:47; Dark ; 40.5; 4; Alp1Cen ; -0.01; 5800;occ; 81; 0;30565  
24; 6287.3; 04-JAN-2008 10:13:45; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30565  
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  
27; 6688.9; 04-JAN-2008 10:20:27; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30565  
28; 6780.1; 04-JAN-2008 10:21:58; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0;30565  
29; 7025.6; 04-JAN-2008 10:26:04; Dark ; 44.0; 2; Alp Car ; -0.74; 7000;occ; 88; 0;30565  
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31; 7387.9; 04-JAN-2008 10:32:06; Dark ; 35.0; 23; 21Eps CMA ; 1.50; 26000;occ; 70; 0;30565  
32; 7611.4; 04-JAN-2008 10:35:49; Dark ; 42.0; 47; 2Bet CMA ; 1.98; 28000;occ; 84; 0;30565

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25; 6049.3; 04-JAN-2008 11:50:23; Dark ; 45.0; 4; Alp1Cen ; -0.01; 5800;occ; 90; 0;30566
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33; 7388.2; 04-JAN-2008 12:12:42; Dark ; 35.0; 23; 21Eps CMA ; 1.50; 26000;occ; 70; 0;30566
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6; 2395.4; 04-JAN-2008 12:30:05; Bright; 36.0; 28; 12Bet Tau ; 1.65; 15200;occ; 72; 0;30567
7; 2474.8; 04-JAN-2008 12:31:24; Bright; 35.5; 114; 3Iot Aur ; 2.69; 4600;occ; 71; 0;30567
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10; 3423.8; 04-JAN-2008 12:47:13; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;30567
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12; 3923.8; 04-JAN-2008 12:55:34; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30567
13; 4056.0; 04-JAN-2008 12:57:46; Bright; 48.0; 130; 23Bet Dra ; 2.80; 5800;occ; 96; 0;30567
14; 4429.1; 04-JAN-2008 13:03:59; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;30567
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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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4; -260.4; 04-JAN-2008 13:26:25; Dark ; 37.5; 109; Bet Lup ; 2.68; 26000;occ; 75; 0;30567
5; -171.1; 04-JAN-2008 13:27:54; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;30567
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
8; 252.4; 04-JAN-2008 13:34:58; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30568
9; 412.5; 04-JAN-2008 13:37:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30568
10; 563.3; 04-JAN-2008 13:40:09; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30568
11; 654.1; 04-JAN-2008 13:41:40; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30568
12; 745.0; 04-JAN-2008 13:43:11; Dark ; 39.0; 41; Eps Car ; 1.86; 4100;occ; 78; 0;30568
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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6; 2395.5; 04-JAN-2008 14:10:41; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30568  
7; 2474.9; 04-JAN-2008 14:12:00; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30568  
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9; 2690.2; 04-JAN-2008 14:15:36; Bright; 41.0; 6; 13Alp Aur ; 0.08; 3400;occ; 82; 0;30568  
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22; 5776.1; 04-JAN-2008 15:07:02; Dark ; 37.5; 109; Bet Lup ; 2.68; 26000;occ; 75; 0;30568  
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32; 7224.6; 04-JAN-2008 15:31:10; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;30568  
33; 7388.8; 04-JAN-2008 15:33:54; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;30568

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5; 2031.5; 04-JAN-2008 15:45:13; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;30569  
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2; 1353.2; 04-JAN-2008 17:14:31; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 0;30570  
3; 1576.2; 04-JAN-2008 17:18:14; Dark ; 39.0; 47; 2Bet CMa ; 1.98; 28000;occ; 78; 0;30570  
4; 1776.3; 04-JAN-2008 17:21:34; Dark ; 43.5; 7; 19Bet Ori ; 0.10; 14000;occ; 87; 0;30570  
5; 1884.9; 04-JAN-2008 17:23:22; Dark ; 39.0; 30; 46Eps Ori ; 1.69; 30000;occ; 78; 0;30570  
6; 2031.5; 04-JAN-2008 17:25:49; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;30570  
7; 2209.4; 04-JAN-2008 17:28:47; Bright; 45.0; 13; 87Alp Tau ; 0.87; 3800;occ; 90; 0;30570  
8; 2395.3; 04-JAN-2008 17:31:53; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30570  
9; 2474.8; 04-JAN-2008 17:33:12; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30570  
10; 2557.0; 04-JAN-2008 17:34:34; Bright; 36.5; 107; 37The Aur ; 2.65; 11000;occ; 73; 0;30570  
11; 2690.1; 04-JAN-2008 17:36:48; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;30570  
12; 3423.8; 04-JAN-2008 17:49:01; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30570  
13; 3686.1; 04-JAN-2008 17:53:24; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;30570  
14; 3923.8; 04-JAN-2008 17:57:21; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;30570  
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  
18; 4905.2; 04-JAN-2008 18:13:43; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;30570  
19; 5042.0; 04-JAN-2008 18:16:00; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;30570  
20; 5216.8; 04-JAN-2008 18:18:54; Bright; 46.5; 104; 27Bet Lib ; 2.61; 13100;occ; 93; 0;30570  
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  
24; 5866.1; 04-JAN-2008 18:29:44; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;30570  
25; 5962.6; 04-JAN-2008 18:31:20; Dark ; 41.0; 95; Zet Cen ; 2.55; 26000;occ; 82; 0;30570  
26; 6050.8; 04-JAN-2008 18:32:48; Dark ; 52.5; 4; Alp1Cen ; -0.01; 5800;occ; 105; 0;30570  
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  
30; 6691.6; 04-JAN-2008 18:43:29; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30570  
31; 6782.2; 04-JAN-2008 18:45:00; Dark ; 46.5; 41; Eps Car ; 1.86; 4100;occ; 93; 0;30570  
32; 7027.0; 04-JAN-2008 18:49:05; Dark ; 11.5; 2; Alp Car ; -0.74; 7000;occ; 23; 0;30570

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3; 1353.4; 04-JAN-2008 18:55:07; Dark ; 46.0; 23; 21Eps CMa ; 1.50; 26000;occ; 92; 0;30571  
4; 1576.2; 04-JAN-2008 18:58:50; Dark ; 42.0; 47; 2Bet CMa ; 1.98; 28000;occ; 84; 0;30571  
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9; 2395.4; 04-JAN-2008 19:12:29; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;30571  
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13; 3423.8; 04-JAN-2008 19:29:37; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;30571  
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15; 3923.8; 04-JAN-2008 19:37:57; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;30571  
16; 4056.6; 04-JAN-2008 19:40:10; Bright; 34.0; 130; 23Bet Dra ; 2.80; 5800;occ; 68; 0;30571  
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19; 4905.5; 04-JAN-2008 19:54:19; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;30571  
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21; 5217.3; 04-JAN-2008 19:59:31; Bright; 38.5; 104; 27Bet Lib ; 2.61; 13100;occ; 77; 0;30571  
22; 5316.0; 04-JAN-2008 20:01:10; Bright; 36.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 72; 0;30571  
23; 5692.4; 04-JAN-2008 20:07:26; Dark ; 36.0; 131; Gam Lup ; 2.80; 26000;occ; 72; 0;30571  
24; 5777.5; 04-JAN-2008 20:08:51; Dark ; 37.5; 109; Bet Lup ; 2.68; 26000;occ; 75; 0;30571  
25; 5866.6; 04-JAN-2008 20:10:20; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;30571  
26; 5963.2; 04-JAN-2008 20:11:57; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;30571  
27; 6051.1; 04-JAN-2008 20:13:25; Dark ; 41.0; 4; Alp1Cen ; -0.01; 5800;occ; 82; 0;30571  
28; 6290.3; 04-JAN-2008 20:17:24; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30571  
29; 6449.6; 04-JAN-2008 20:20:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30571  
30; 6600.5; 04-JAN-2008 20:22:34; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30571  
31; 6692.0; 04-JAN-2008 20:24:06; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30571  
32; 6782.6; 04-JAN-2008 20:25:36; Dark ; 49.5; 41; Eps Car ; 1.86; 4100;occ; 99; 0;30571

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2; -257.0; 05-JAN-2008 01:10:40; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;30574  
3; -167.9; 05-JAN-2008 01:12:09; Dark ; 42.0; 78; Alp Lup ; 2.30; 28000;occ; 84; 0;30574



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5; 16.2; 05-JAN-2008 01:15:13; Dark ; 43.5; 4; Alp1Cen ; -0.01; 5800;occ; 87; 0;30575
6; 255.9; 05-JAN-2008 01:19:13; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;30575
7; 414.6; 05-JAN-2008 01:21:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30575
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9; 657.7; 05-JAN-2008 01:25:55; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30575
10; 747.9; 05-JAN-2008 01:27:25; Dark ; 52.5; 41; Eps Car ; 1.86; 4100;occ; 105; 0;30575
11; 991.9; 05-JAN-2008 01:31:29; Dark ; 52.0; 2; Alp Car ; -0.74; 7000;occ; 104; 0;30575
12; 1190.6; 05-JAN-2008 01:34:48; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;30575
13; 1354.3; 05-JAN-2008 01:37:31; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;30575
14; 1576.8; 05-JAN-2008 01:41:14; Dark ; 42.5; 47; 2Bet CMA ; 1.98; 28000;occ; 85; 0;30575
15; 1777.0; 05-JAN-2008 01:44:34; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;30575
16; 1885.3; 05-JAN-2008 01:46:22; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;30575
17; 2031.3; 05-JAN-2008 01:48:48; Dark ; 49.0; 14; 58Alp Ori ; 0.87; 3000;occ; 98; 0;30575
18; 2268.4; 05-JAN-2008 01:52:46; Bright; 34.5; 176; 23Zet Tau ; 3.02; 22000;occ; 69; 0;30575
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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21; 2556.1; 05-JAN-2008 01:57:33; Bright; 36.5; 107; 37The Aur ; 2.65; 11000;occ; 73; 0;30575
22; 2689.9; 05-JAN-2008 01:59:47; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;30575
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; -1605.6; 05-JAN-2008 02:28:47; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 0;30575
4; -1480.3; 05-JAN-2008 02:30:53; Bright; 38.0; 67; 5Alp CrB ; 2.22; 11000;occ; 76; 0;30575
5; -1128.9; 05-JAN-2008 02:36:44; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;30575
6; -992.7; 05-JAN-2008 02:39:00; Bright; 34.0; 120; 1Del Oph ; 2.73; 3200;occ; 68; 0;30575
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8; -718.7; 05-JAN-2008 02:43:34; Bright; 35.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 71; 0;30575
9; -609.0; 05-JAN-2008 02:45:24; Dark ; 38.0; 158; 6Pi Sco ; 2.91; 28000;occ; 76; 0;30575
10; -342.0; 05-JAN-2008 02:49:51; Dark ; 36.0; 131; Gam Lup ; 2.80; 26000;occ; 72; 0;30575
11; -256.5; 05-JAN-2008 02:51:16; Dark ; 37.0; 109; Bet Lup ; 2.68; 26000;occ; 74; 0;30575
12; -167.3; 05-JAN-2008 02:52:46; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;30575
13; -70.1; 05-JAN-2008 02:54:23; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;30575
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16; 414.8; 05-JAN-2008 03:02:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30576
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20; 992.2; 05-JAN-2008 03:12:05; Dark ; 44.0; 2; Alp Car ; -0.74; 7000;occ; 88; 0;30576
21; 1191.1; 05-JAN-2008 03:15:24; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;30576
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25; 1885.5; 05-JAN-2008 03:26:58; Dark ; 43.0; 30; 46Eps Ori ; 1.69; 30000;occ; 86; 0;30576
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27; 2268.5; 05-JAN-2008 03:33:21; Bright; 34.5; 176; 23Zet Tau ; 3.02; 22000;occ; 69; 0;30576
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11; -341.7; 05-JAN-2008 04:30:27; Dark ; 38.5; 131; Gam Lup ; 2.80; 26000;occ; 77; 0;30576
12; -256.1; 05-JAN-2008 04:31:53; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;30576
13; -166.7; 05-JAN-2008 04:33:22; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;30576

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17; 415.4; 05-JAN-2008 06:23:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30578
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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
22; 1191.6; 05-JAN-2008 06:36:37; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;30578
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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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  
 16; 4058.9; 05-JAN-2008 20:49:11; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;30586  
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 19; 4910.6; 05-JAN-2008 21:03:23; Bright; 54.5; 102; 24Alp Ser ; 2.60; 4250;occ; 109; 0;30586

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 9; 418.0; 05-JAN-2008 21:29:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30587  
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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  
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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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 31; 4911.0; 05-JAN-2008 22:43:59; Bright; 38.5; 102; 24Alp Ser ; 2.60; 4250;occ; 77; 0;30587  
 32; 5046.5; 05-JAN-2008 22:46:15; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;30587  
 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  
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 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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 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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 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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 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  
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 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  
 19; 5050.2; 06-JAN-2008 18:53:30; Bright; 53.0; 120; 1Del Oph ; 2.73; 3200;occ; 106; 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  
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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
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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
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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
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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
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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
17; 2267.7; 06-JAN-2008 23:08:55; Bright; 36.0; 176; 23Zet Tau ; 3.02; 22000;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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27; 4916.2; 06-JAN-2008 23:53:04; Bright; 38.0; 102; 24Alp Ser ; 2.60; 4250;occ; 76; 0;30602
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6; 270.7; 07-JAN-2008 00:16:14; Dark ; 41.0; 12; Alp1Cru ; 0.77; 30000;occ; 82; 0;30603
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9; 671.8; 07-JAN-2008 00:22:55; Dark ; 45.0; 71; Iot Car ; 2.25; 7700;occ; 90; 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
26; 4434.6; 07-JAN-2008 01:25:38; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 0;30603
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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 5; 271.3; 07-JAN-2008 01:56:50; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30604
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 2; 1888.6; 07-JAN-2008 09:06:12; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;30608
 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  
11; 4062.3; 07-JAN-2008 09:42:25; Bright; 50.5; 130; 23Bet Dra ; 2.80; 5800;occ; 101; 0;30608  
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  
20; 6064.6; 07-JAN-2008 11:56:23; Dark ; 40.0; 4; Alp1Cen ; -0.01; 5800;occ; 80; 0;30609  
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  
25; 6798.2; 07-JAN-2008 12:08:37; Dark ; 39.0; 41; Eps Car ; 1.86; 4100;occ; 78; 0;30609  
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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1; 1581.9; 07-JAN-2008 12:22:17; Dark ; 40.0; 47; 2Bet CMa ; 1.98; 28000;occ; 80; 0;30610  
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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  
 29; 7399.2; 07-JAN-2008 13:59:14; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 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  
 5; 2268.1; 07-JAN-2008 14:14:19; Bright; 36.5; 176; 23Zet Tau ; 3.02; 22000;occ; 73; 0;30611  
 6; 2395.2; 07-JAN-2008 14:16:26; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30611  
 7; 2478.9; 07-JAN-2008 14:17:49; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30611  
 8; 2689.5; 07-JAN-2008 14:21:20; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;30611  
 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  
 26; 6799.1; 07-JAN-2008 15:29:50; Dark ; 47.5; 41; Eps Car ; 1.86; 4100;occ; 95; 0;30611  
 27; 7036.5; 07-JAN-2008 15:33:47; Dark ; 42.5; 2; Alp Car ;-0.74; 7000;occ; 85; 0;30611  
 28; 7238.7; 07-JAN-2008 15:37:09; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;30611  
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 2; 1582.2; 07-JAN-2008 15:43:29; Dark ; 43.0; 47; 2Bet CMa ; 1.98; 28000;occ; 86; 0;30612  
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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  
 5; 2031.5; 07-JAN-2008 15:50:58; Dark ; 50.0; 14; 58Alp Ori ; 0.87; 3000;occ; 100; 0;30612  
 6; 2268.1; 07-JAN-2008 15:54:55; Bright; 37.0; 176; 23Zet Tau ; 3.02; 22000;occ; 74; 0;30612  
 7; 2395.3; 07-JAN-2008 15:57:02; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 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  
 12; 3924.6; 07-JAN-2008 16:22:31; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;30612  
 13; 4062.9; 07-JAN-2008 16:24:49; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;30612  
 14; 4436.3; 07-JAN-2008 16:31:03; Bright; 50.5; 133; 40Zet Her ; 2.81; 6000;occ; 101; 0;30612  
 15; 4615.1; 07-JAN-2008 16:34:02; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;30612  
 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  
 18; 5381.8; 07-JAN-2008 16:46:48; Dark ; 42.5; 80; 7Del Sco ; 2.32; 30000;occ; 85; 0;30612  
 19; 5708.2; 07-JAN-2008 16:52:15; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30612  
 20; 5798.1; 07-JAN-2008 16:53:45; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;30612  
 21; 5887.9; 07-JAN-2008 16:55:14; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;30612

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24; 6461.5; 07-JAN-2008 17:04:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30612
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27; 6799.6; 07-JAN-2008 17:10:26; Dark ; 46.0; 41; Eps Car ; 1.86; 4100;occ; 92; 0;30612
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29; 7239.2; 07-JAN-2008 17:17:46; Dark ; 42.5; 117; Pi Pup ; 2.71; 3800;occ; 85; 0;30612
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3; 1582.3; 07-JAN-2008 17:24:05; Dark ; 41.5; 47; 2Bet CMA ; 1.98; 28000;occ; 83; 0;30613
4; 1783.1; 07-JAN-2008 17:27:26; Dark ; 50.0; 7; 19Bet Ori ; 0.10; 14000;occ; 100; 0;30613
5; 1889.1; 07-JAN-2008 17:29:12; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;30613
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7; 2268.0; 07-JAN-2008 17:35:31; Bright; 36.5; 176; 23Zet Tau ; 3.02; 22000;occ; 73; 0;30613
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24;	6538.9;	11-JAN-2008	08:17:14;	Dark	;	37.0;	124;	The Car	;	2.76;	30000;occ;	74;	0;	30664
25;	6632.4;	11-JAN-2008	08:18:47;	Dark	;	37.5;	29;	Bet Car	;	1.67;	10200;occ;	75;	0;	30664
26;	6738.3;	11-JAN-2008	08:20:33;	Dark	;	38.5;	71;	Iot Car	;	2.25;	7700;occ;	77;	0;	30664
27;	6819.8;	11-JAN-2008	08:21:55;	Dark	;	46.5;	41;	Eps Car	;	1.86;	4100;occ;	93;	0;	30664
28;	7047.9;	11-JAN-2008	08:25:43;	Dark	;	49.5;	2;	Alp Car	;	-0.74;	7000;occ;	99;	0;	30664
29;	7254.8;	11-JAN-2008	08:29:10;	Dark	;	42.5;	117;	Pi Pup	;	2.71;	3800;occ;	85;	0;	30664
30;	7411.9;	11-JAN-2008	08:31:47;	Dark	;	43.5;	23;	21Eps CMa	;	1.50;	26000;occ;	87;	0;	30664
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
33;	7784.2;	11-JAN-2008	08:37:59;	Dark	;	5.5;	56;	53Kap Ori	;	2.07;	30000;occ;	11;	0;	30664

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2;	1895.6;	11-JAN-2008	08:40:27;	Dark	;	41.5;	30;	46Eps Ori	;	1.69;	30000;occ;	83;	0;	30665
3;	2033.6;	11-JAN-2008	08:42:45;	Dark	;	52.0;	14;	58Alp Ori	;	0.87;	3000;occ;	104;	0;	30665
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
10;	3924.3;	11-JAN-2008	09:14:15;	Bright;		36.5;	119;	14Eta Dra	;	2.73;	4700;occ;	73;	0;	30665
11;	4069.9;	11-JAN-2008	09:16:41;	Bright;		34.0;	130;	23Bet Dra	;	2.80;	5800;occ;	68;	0;	30665
12;	4444.1;	11-JAN-2008	09:22:55;	Bright;		35.0;	133;	40Zet Her	;	2.81;	6000;occ;	70;	0;	30665
13;	4625.8;	11-JAN-2008	09:25:57;	Bright;		54.0;	127;	27Bet Her	;	2.78;	4700;occ;	108;	0;	30665
14;	5072.2;	11-JAN-2008	09:33:23;	Bright;		37.5;	120;	1Del Oph	;	2.73;	3200;occ;	75;	0;	30665
15;	5158.8;	11-JAN-2008	09:34:50;	Bright;		39.5;	98;	13Zet Oph	;	2.57;	30000;occ;	79;	0;	30665
16;	5349.8;	11-JAN-2008	09:38:01;	Dark	;	39.5;	97;	8Bet1Sco	;	2.56;	30000;occ;	79;	0;	30665
17;	5425.3;	11-JAN-2008	09:39:16;	Dark	;	46.0;	16;	21Alp Sco	;	1.02;	3000;occ;	92;	0;	30665
18;	5730.7;	11-JAN-2008	09:44:22;	Dark	;	37.5;	131;	Gam Lup	;	2.80;	26000;occ;	75;	0;	30665
19;	5827.4;	11-JAN-2008	09:45:58;	Dark	;	39.5;	109;	Bet Lup	;	2.68;	26000;occ;	79;	0;	30665
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
23;	6297.8;	11-JAN-2008	09:53:49;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	30665
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
28;	7048.0;	11-JAN-2008	10:06:19;	Dark	;	51.0;	2;	Alp Car	;	-0.74;	7000;occ;	102;	0;	30665
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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5; 2397.9; 11-JAN-2008 10:29:25; Bright; 36.0; 28; 12Bet Tau ; 1.65; 15200;occ; 72; 0;30666
6; 2486.8; 11-JAN-2008 10:30:54; Bright; 36.5; 114; 3Iot Aur ; 2.69; 4600;occ; 73; 0;30666
7; 2676.3; 11-JAN-2008 10:34:03; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;30666
8; 3424.7; 11-JAN-2008 10:46:31; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;30666
9; 3673.6; 11-JAN-2008 10:50:40; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;30666
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12; 4444.3; 11-JAN-2008 11:03:31; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;30666
13; 4626.1; 11-JAN-2008 11:06:33; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;30666
14; 5072.6; 11-JAN-2008 11:13:59; Bright; 40.0; 120; 1Del Oph ; 2.73; 3200;occ; 80; 0;30666
15; 5159.1; 11-JAN-2008 11:15:26; Bright; 52.0; 98; 13Zet Oph ; 2.57; 30000;occ; 104; 0;30666
16; 5350.3; 11-JAN-2008 11:18:37; Dark ; 40.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 80; 0;30666
17; 5425.6; 11-JAN-2008 11:19:52; Dark ; 44.0; 16; 21Alp Sco ; 1.02; 3000;occ; 88; 0;30666
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19; 5827.9; 11-JAN-2008 11:26:35; Dark ; 39.5; 109; Bet Lup ; 2.68; 26000;occ; 79; 0;30666
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21; 6030.2; 11-JAN-2008 11:29:57; Dark ; 26.0; 95; Zet Cen ; 2.55; 26000;occ; 52; 0;30666
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23; 6298.0; 11-JAN-2008 11:34:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30666
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26; 6739.2; 11-JAN-2008 11:41:46; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;30666
27; 6820.5; 11-JAN-2008 11:43:07; Dark ; 48.0; 41; Eps Car ; 1.86; 4100;occ; 96; 0;30666
28; 7048.2; 11-JAN-2008 11:46:55; Dark ; 43.0; 2; Alp Car ; -0.74; 7000;occ; 86; 0;30666
29; 7255.2; 11-JAN-2008 11:50:22; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;30666
30; 7412.2; 11-JAN-2008 11:52:59; Dark ; 43.0; 23; 21Eps CMa ; 1.50; 26000;occ; 86; 0;30666
31; 7499.3; 11-JAN-2008 11:54:26; Dark ; 40.5; 179; 240mi2CMa ; 3.03; 24000;occ; 81; 0;30666

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27; 6633.2; 11-JAN-2008 13:20:36; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;30667
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31; 7255.6; 11-JAN-2008 13:30:58; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;30667
32; 7412.5; 11-JAN-2008 13:33:35; Dark ; 43.5; 23; 21Eps CMa ; 1.50; 26000;occ; 87; 0;30667
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5; 1896.0; 11-JAN-2008 15:22:50; Dark ; 40.5; 30; 46Eps Ori ; 1.69; 30000;occ; 81; 0;30669
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17;	1266.6;	24-JAN-2008	21:46:07;	Dark	;	40.0;	117;	Pi Pup	;	2.71;	3800;occ;	80;	0;	30859
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19;	1498.0;	24-JAN-2008	21:49:59;	Dark	;	39.0;	179;	240mi2CMA	;	3.03;	24000;occ;	78;	0;	30859
20;	1627.8;	24-JAN-2008	21:52:08;	Dark	;	45.5;	1;	9Alp CMA	;	-1.44;	11000;occ;	91;	0;	30859
21;	2059.5;	24-JAN-2008	21:59:20;	Dark	;	51.5;	14;	58Alp Ori	;	0.87;	3000;occ;	103;	0;	30859
22;	2188.1;	24-JAN-2008	22:01:29;	Bright;		38.0;	44;	24Gam Gem	;	1.93;	11000;occ;	76;	0;	30859
23;	2294.6;	24-JAN-2008	22:03:15;	Bright;		38.5;	151;	13Mu Gem	;	2.89;	3000;occ;	77;	0;	30859
24;	2432.1;	24-JAN-2008	22:05:33;	Bright;		35.5;	28;	12Bet Tau	;	1.65;	15200;occ;	71;	0;	30859
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26;	2676.5;	24-JAN-2008	22:09:37;	Bright;		36.0;	42;	34Bet Aur	;	1.90;	10200;occ;	72;	0;	30859
27;	3426.6;	24-JAN-2008	22:22:07;	Bright;		36.5;	49;	1Alp UMi	;	1.99;	6300;occ;	73;	0;	30859
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30;	4769.1;	24-JAN-2008	22:44:30;	Bright;		53.0;	59;	55Alp Oph	;	2.08;	8900;occ;	106;	0;	30859
31;	4895.5;	24-JAN-2008	22:46:36;	Bright;		34.0;	126;	60Bet Oph	;	2.77;	4250;occ;	68;	0;	30859
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14;	652.4;	24-JAN-2008	08:11:06;	Dark	;	37.5;	29;	Bet Car	;	1.67;	10200;occ;	75;	0;	30851
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21;	1496.7;	24-JAN-2008	08:25:10;	Dark	;	36.0;	179;	240mi2CMA	;	3.03;	24000;occ;	72;	0;	30851
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6;	2430.0;	24-JAN-2008	08:40:43;	Bright;		35.5;	28;	12Bet Tau	;	1.65;	15200;occ;	71;	0;	30851
7;	2547.4;	24-JAN-2008	08:42:41;	Bright;		35.0;	107;	37The Aur	;	2.65;	11000;occ;	70;	0;	30851
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22; 2552.2; 26-JAN-2008 22:44:55; Bright; 34.5; 107; 37The Aur ; 2.65; 11000;occ; 69; 0;30888
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25; 4086.3; 26-JAN-2008 23:10:29; Bright; 34.0; 130; 23Bet Dra ; 2.80; 5800;occ; 68; 0;30888
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4; 422.6; 26-JAN-2008 08:44:38; Dark ; 43.5; 12; Alp1Cru ; 0.77; 30000;occ; 87; 0;30880
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16;	1422.8;	27-JAN-2008	21:54:28;	Dark	;	38.5;	23;	21Eps CMA	;	1.50;	26000;occ;	77;	0;	30902
17;	1505.6;	27-JAN-2008	21:55:51;	Dark	;	32.0;	179;	240mi2CMA	;	3.03;	24000;occ;	64;	0;	30902
18;	1634.8;	27-JAN-2008	21:58:00;	Dark	;	45.0;	1;	9Alp CMA	;	-1.44;	11000;occ;	90;	0;	30902
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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11;	323.2;	27-JAN-2008	08:11:21;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	30894
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  
 18; 1274.1; 27-JAN-2008 08:27:12; Dark ; 38.0; 117; Pi Pup ; 2.71; 3800;occ; 76; 0;30894  
 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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 9; 4294.1; 27-JAN-2008 09:17:32; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;30894  
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 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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 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  
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 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  
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 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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6; 2680.8; 27-JAN-2008 12:11:51; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;30896  
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  
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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  
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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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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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23; 6943.1; 27-JAN-2008 15:03:29; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;30897  
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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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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  
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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  
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 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  
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 16; 5283.0; 27-JAN-2008 17:57:01; Dark ; 42.5; 86; 35Eta Oph ; 2.43; 10200;occ; 85; 0;30899  
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 18; 5609.6; 27-JAN-2008 18:02:27; Dark ; 43.0; 75; 26Eps Sco ; 2.29; 4250;occ; 86; 0;30899  
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 21; 6194.7; 27-JAN-2008 18:12:12; Dark ; 44.0; 4; Alp1Cen ; -0.01; 5800;occ; 88; 0;30899  
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 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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9; 305.9; 22-JAN-2008 22:33:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30831
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