

# GOMOS Daily Report 19-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	21JAN2008 05:58:41
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (19JAN2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (20JAN2008 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)

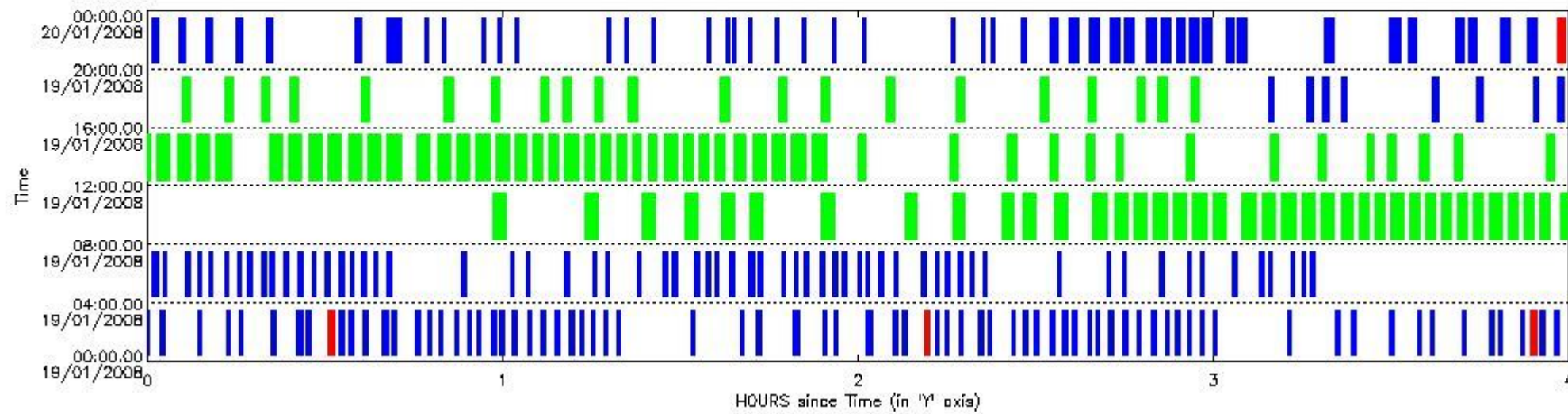
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

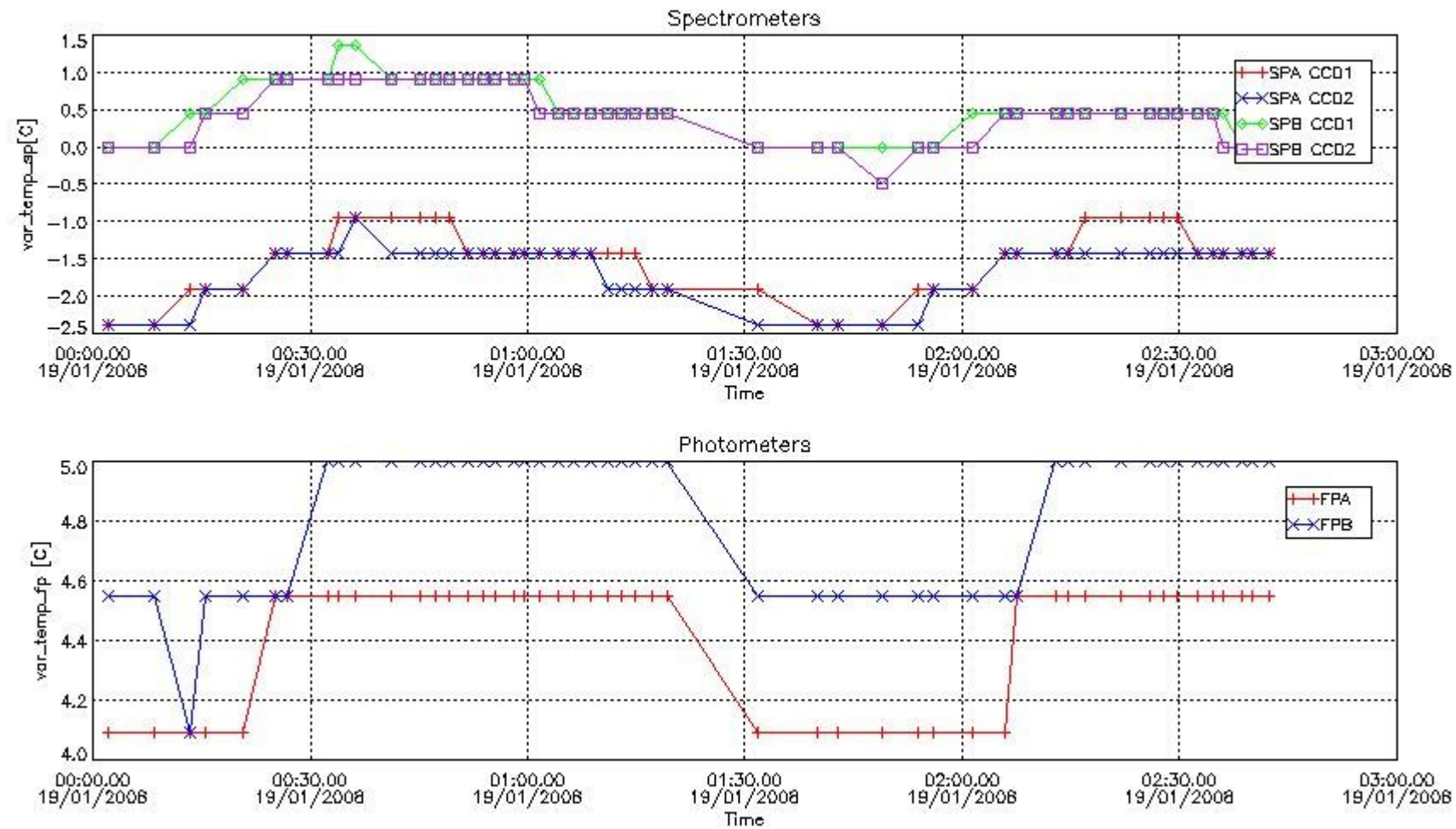
UTC start time	Star name	Star ID	Orbit
19-JAN-2008 00:30:32	GamLup	131	30774
19-JAN-2008 02:11:08	GamLup	131	30775
19-JAN-2008 03:53:36	BetLup	109	30776
19-JAN-2008 23:58:09	GamLup	131	30788

### 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_1PNPDE20080119_000207_000000362065_00159_30774_2140.N1	19-JAN-2008 00:02:07	Bright	36.000	130	23Bet Dra	2.7990	5800.0	72	30774	No
2	GOM_TRA_1PNPDE20080119_000827_000000362065_00159_30774_2141.N1	19-JAN-2008 00:08:27	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	30774	No
3	GOM_TRA_1PNPDE20080119_001317_000000342065_00159_30774_2142.N1	19-JAN-2008 00:13:17	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	30774	No
4	GOM_TRA_1PNPDE20080119_001524_000000332065_00159_30774_2143.N1	19-JAN-2008 00:15:24	Bright	33.000	126	60Bet Oph	2.7700	4250.0	66	30774	No
5	GOM_TRA_1PNPDE20080119_002043_000000542065_00159_30774_2144.N1	19-JAN-2008 00:20:43	Bright	53.500	98	13Zet Oph	2.5710	30000.	107	30774	No
6	GOM_TRA_1PNPDE20080119_002512_000000532065_00159_30774_2247.N1	19-JAN-2008 00:25:12	Twilight	53.000	16	21Alp Sco	1.0200	3000.0	106	30774	No
7	GOM_TRA_1PNPDE20080119_002648_000000432065_00159_30774_2248.N1	19-JAN-2008 00:26:48	Twilight	43.000	75	26Eps Sco	2.2910	4250.0	86	30774	No

8	GOM_TRA_1PNPDE20080119_003224_000000412065_00159_30774_2249.N1	19-JAN-2008 00:32:24	Dark	40.500	109	Bet Lup	2.6770	26000.	81	30774	No
9	GOM_TRA_1PNPDE20080119_003354_000000422065_00159_30774_2250.N1	19-JAN-2008 00:33:54	Dark	41.500	78	Alp Lup	2.3040	28000.	83	30774	No
10	GOM_TRA_1PNPDE20080119_003620_000000452065_00160_30775_2251.N1	19-JAN-2008 00:36:20	Dark	44.500	4	Alp1Cen	-0.010000	5800.0	89	30775	No
11	GOM_TRA_1PNPDE20080119_004115_000000392065_00160_30775_2252.N1	19-JAN-2008 00:41:15	Dark	38.500	129	Del Cru	2.7930	26000.	77	30775	No
12	GOM_TRA_1PNPDE20080119_004513_000000382065_00160_30775_2253.N1	19-JAN-2008 00:45:13	Dark	38.000	29	Bet Car	1.6720	10200.	76	30775	No
13	GOM_TRA_1PNPDE20080119_004714_000000442065_00160_30775_2254.N1	19-JAN-2008 00:47:14	Dark	44.000	71	lot Car	2.2460	7700.0	88	30775	No
14	GOM_TRA_1PNPDE20080119_004905_000000402065_00160_30775_2255.N1	19-JAN-2008 00:49:05	Dark	40.000	46	Del Vel	1.9540	10600.	80	30775	No
15	GOM_TRA_1PNPDE20080119_005146_000000402065_00160_30775_2256.N1	19-JAN-2008 00:51:46	Dark	40.000	34	Gam2Vel	1.7930	23000.	80	30775	No
16	GOM_TRA_1PNPDE20080119_005354_000000412065_00160_30775_2257.N1	19-JAN-2008 00:53:54	Dark	40.500	70	Zet Pup	2.2460	39000.	81	30775	No
17	GOM_TRA_1PNPDE20080119_005530_000000422065_00160_30775_2258.N1	19-JAN-2008 00:55:30	Straylight	41.500	117	Pi Pup	2.7060	3800.0	83	30775	No
18	GOM_TRA_1PNPDE20080119_005802_000000442065_00160_30775_2259.N1	19-JAN-2008 00:58:02	Straylight	43.500	23	21Eps CMa	1.5020	26000.	87	30775	No
19	GOM_TRA_1PNPDE20080119_005926_000000392065_00160_30775_2260.N1	19-JAN-2008 00:59:26	Straylight	39.000	179	24Omi2CMa	3.0320	24000.	78	30775	No
20	GOM_TRA_1PNPDE20080119_010138_000000462065_00160_30775_2261.N1	19-JAN-2008 01:01:38	Straylight	45.500	1	9Alp CMa	-1.4400	11000.	91	30775	No
21	GOM_TRA_1PNPDE20080119_010409_000000412065_00160_30775_2262.N1	19-JAN-2008 01:04:09	Straylight	41.000	56	53Kap Ori	2.0650	30000.	82	30775	No
22	GOM_TRA_1PNPDE20080119_010621_000000402065_00160_30775_2263.N1	19-JAN-2008 01:06:21	Twilight	39.500	33	50Zet Ori	1.7660	30000.	79	30775	No
23	GOM_TRA_1PNPDE20080119_010847_000000472065_00160_30775_2264.N1	19-JAN-2008 01:08:47	Twilight	46.500	14	58Alp Ori	0.87000	3000.0	93	30775	No
24	GOM_TRA_1PNPDE20080119_011110_000000502065_00160_30775_2265.N1	19-JAN-2008 01:11:10	Bright	49.500	44	24Gam Gem	1.9280	11000.	99	30775	No
25	GOM_TRA_1PNPDE20080119_011254_000000412065_00160_30775_2266.N1	19-JAN-2008 01:12:54	Bright	40.500	151	13Mu Gem	2.8900	3000.0	81	30775	No
26	GOM_TRA_1PNPDE20080119_011455_000000372065_00160_30775_2267.N1	19-JAN-2008 01:14:55	Bright	37.000	28	12Bet Tau	1.6500	15200.	74	30775	No
27	GOM_TRA_1PNPDE20080119_011704_000000372065_00160_30775_2268.N1	19-JAN-2008 01:17:04	Bright	37.000	107	37The Aur	2.6490	11000.	74	30775	No
28	GOM_TRA_1PNPDE20080119_011915_000000362065_00160_30775_2269.N1	19-JAN-2008 01:19:15	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	30775	No
29	GOM_TRA_1PNPDE20080119_013148_000000352065_00160_30775_2270.N1	19-JAN-2008 01:31:48	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	30775	No
30	GOM_TRA_1PNPDE20080119_014003_000000372065_00160_30775_2271.N1	19-JAN-2008 01:40:03	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	30775	No
31	GOM_TRA_1PNPDE20080119_014243_000000522065_00160_30775_2272.N1	19-JAN-2008 01:42:43	Bright	52.000	130	23Bet Dra	2.7990	5800.0	104	30775	No
32	GOM_TRA_1PNPDE20080119_014903_000000552065_00160_30775_2273.N1	19-JAN-2008 01:49:03	Bright	55.000	133	40Zet Her	2.8070	6000.0	110	30775	No
33	GOM_TRA_1PNPDE20080119_015354_000000332065_00160_30775_2274.N1	19-JAN-2008 01:53:54	Bright	33.000	59	55Alp Oph	2.0800	8900.0	66	30775	No
34	GOM_TRA_1PNPDE20080119_015600_000000332065_00160_30775_2275.N1	19-JAN-2008 01:56:00	Bright	32.500	126	60Bet Oph	2.7700	4250.0	65	30775	No
35	GOM_TRA_1PNPDE20080119_020120_000000542065_00160_30775_2296.N1	19-JAN-2008 02:01:20	Bright	54.000	98	13Zet Oph	2.5710	30000.	108	30775	No
36	GOM_TRA_1PNPDE20080119_020548_000000512065_00160_30775_2297.N1	19-JAN-2008 02:05:48	Twilight	51.000	16	21Alp Sco	1.0200	3000.0	102	30775	No
37	GOM_TRA_1PNPDE20080119_020725_000000442065_00160_30775_2298.N1	19-JAN-2008 02:07:25	Twilight	43.500	75	26Eps Sco	2.2910	4250.0	87	30775	No
38	GOM_TRA_1PNPDE20080119_021301_000000412065_00160_30775_2299.N1	19-JAN-2008 02:13:01	Dark	40.500	109	Bet Lup	2.6770	26000.	81	30775	No
39	GOM_TRA_1PNPDE20080119_021431_000000432065_00160_30775_2300.N1	19-JAN-2008 02:14:31	Dark	43.000	78	Alp Lup	2.3040	28000.	86	30775	No
40	GOM_TRA_1PNPDE20080119_021656_000000412065_00161_30776_2301.N1	19-JAN-2008 02:16:56	Dark	41.000	4	Alp1Cen	-0.010000	5800.0	82	30776	No
41	GOM_TRA_1PNPDE20080119_022151_000000402065_00161_30776_2302.N1	19-JAN-2008 02:21:51	Dark	40.000	129	Del Cru	2.7930	26000.	80	30776	No
42	GOM_TRA_1PNPDE20080119_022550_000000382065_00161_30776_2303.N1	19-JAN-2008 02:25:50	Dark	38.000	29	Bet Car	1.6720	10200.	76	30776	No
43	GOM_TRA_1PNPDE20080119_022751_000000382065_00161_30776_2304.N1	19-JAN-2008 02:27:51	Dark	38.000	71	lot Car	2.2460	7700.0	76	30776	No
44	GOM_TRA_1PNPDE20080119_022942_000000422065_00161_30776_2305.N1	19-JAN-2008 02:29:42	Dark	42.000	46	Del Vel	1.9540	10600.	84	30776	No
45	GOM_TRA_1PNPDE20080119_023222_000000422065_00161_30776_2306.N1	19-JAN-2008 02:32:22	Dark	41.500	34	Gam2Vel	1.7930	23000.	83	30776	No
46	GOM_TRA_1PNPDE20080119_023430_000000412065_00161_30776_2307.N1	19-JAN-2008 02:34:30	Dark	40.500	70	Zet Pup	2.2460	39000.	81	30776	No
47	GOM_TRA_1PNPDE20080119_023607_000000462065_00161_30776_2308.N1	19-JAN-2008 02:36:07	Straylight	45.500	117	Pi Pup	2.7060	3800.0	91	30776	No
48	GOM_TRA_1PNPDE20080119_023838_000000432065_00161_30776_2309.N1	19-JAN-2008 02:38:38	Straylight	43.000	23	21Eps CMa	1.5020	26000.	86	30776	No
49	GOM_TRA_1PNPDE20080119_024002_000000402065_00161_30776_2310.N1	19-JAN-2008 02:40:02	Straylight	39.500	179	24Omi2CMa	3.0320	24000.	79	30776	No
50	GOM_TRA_1PNPDE20080119_024214_000000462065_00161_30776_2311.N1	19-JAN-2008 02:42:14	Straylight	46.000	1	9Alp CMa	-1.4400	11000.	92	30776	No

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



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

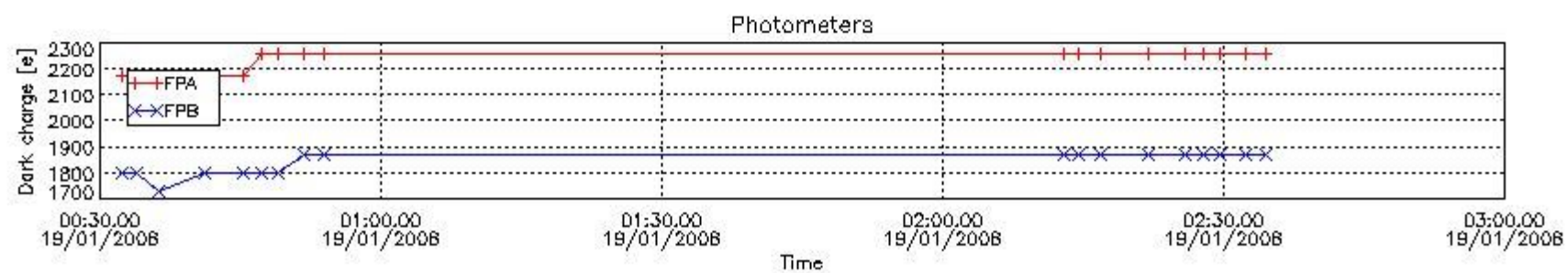
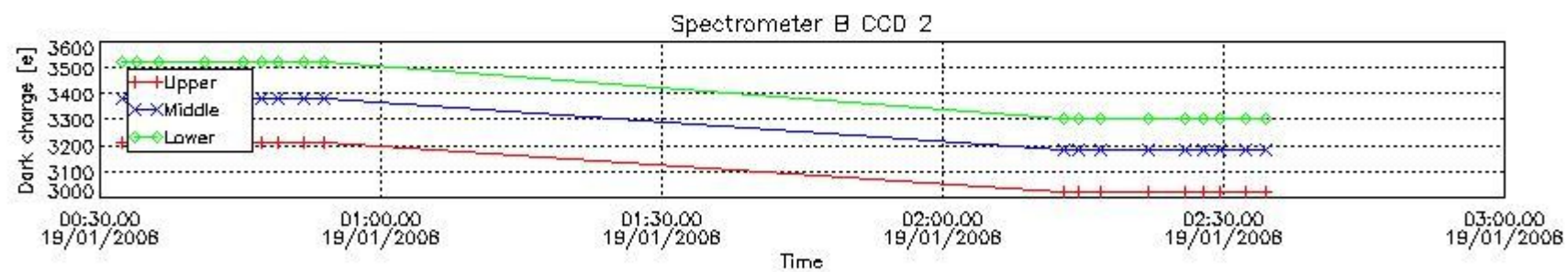
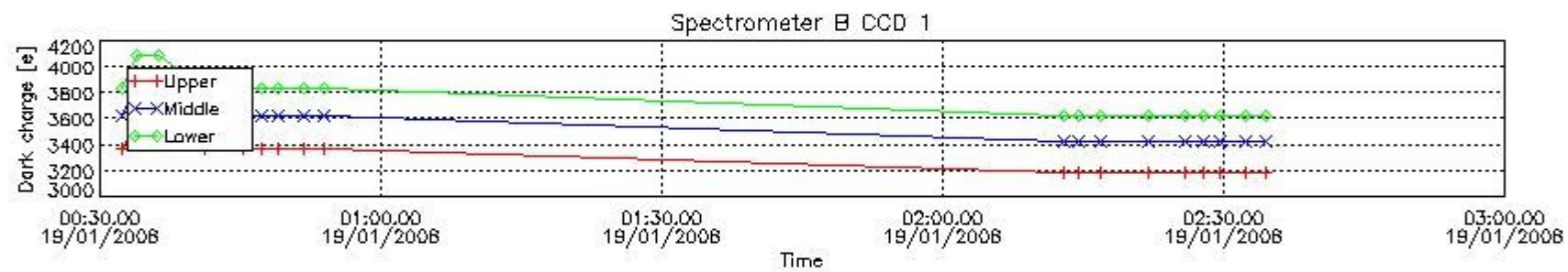
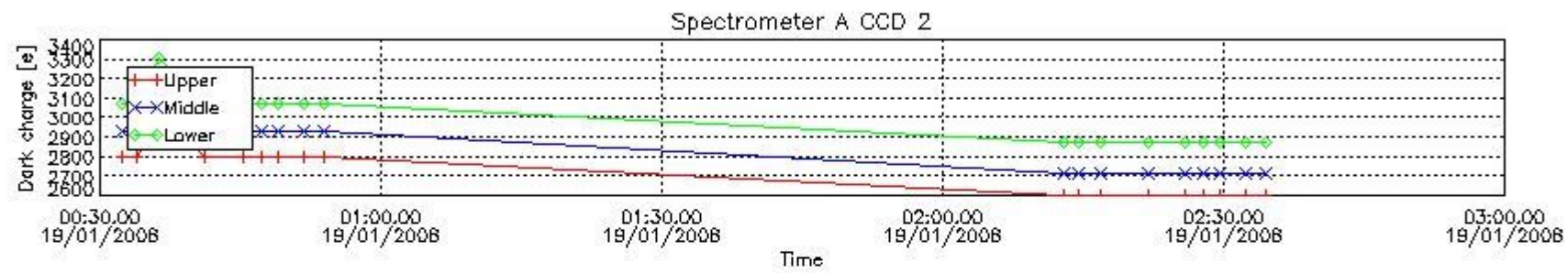
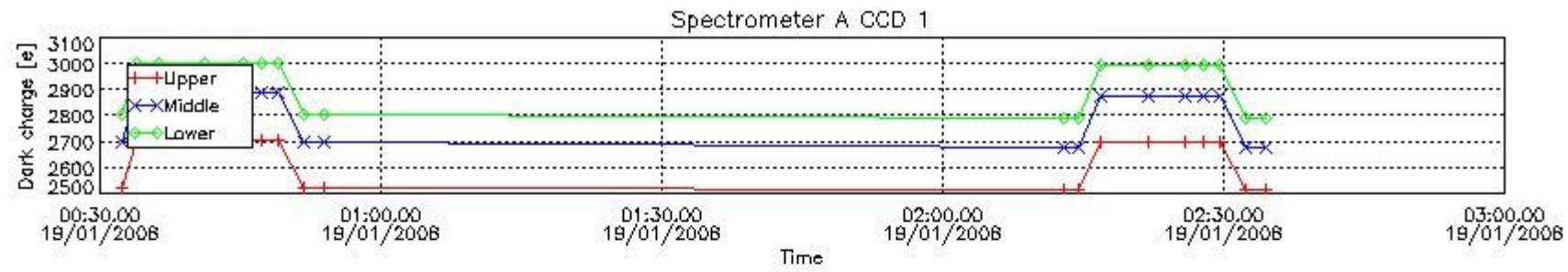
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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





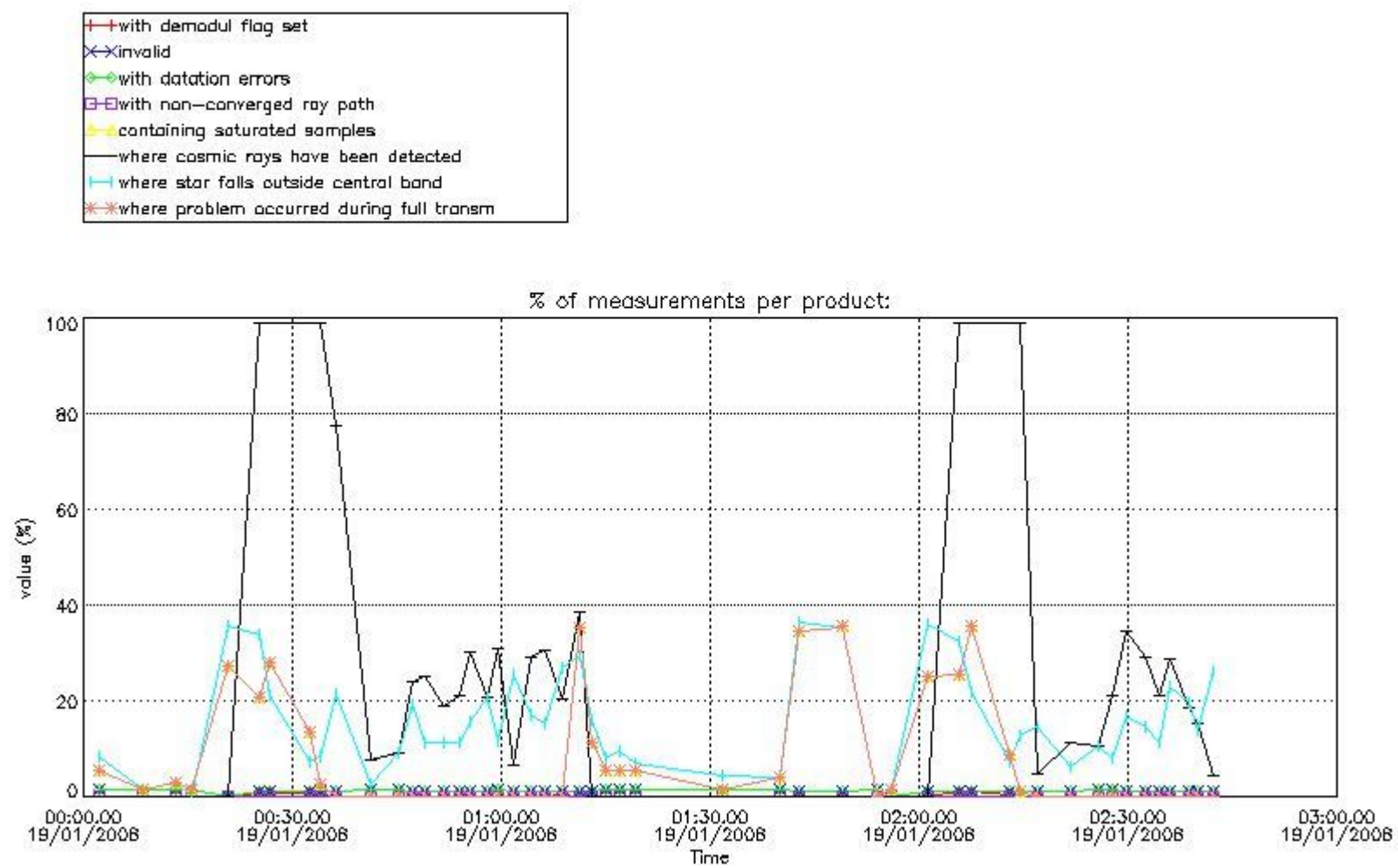
## 5. Demodulation flag and quality information monitoring

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.

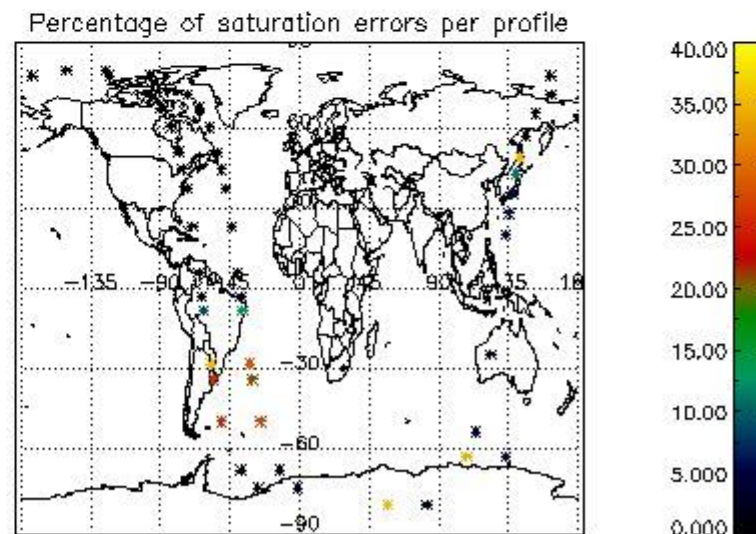
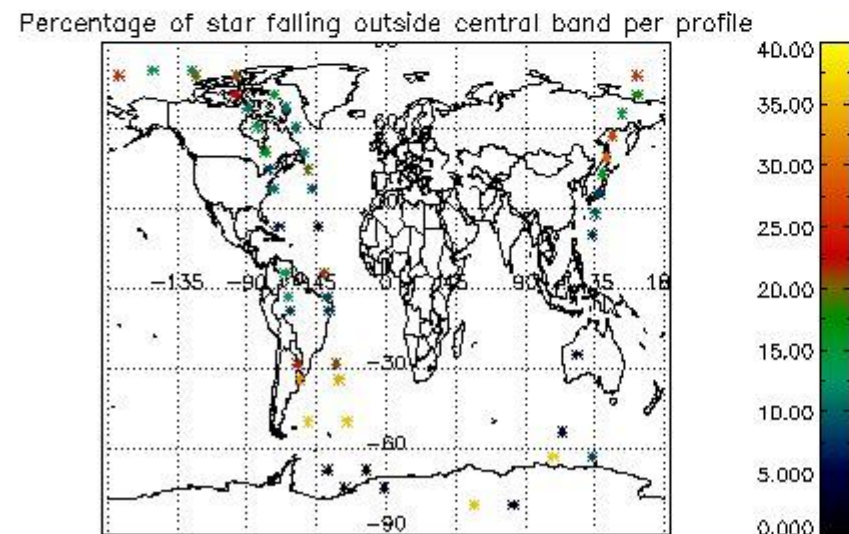
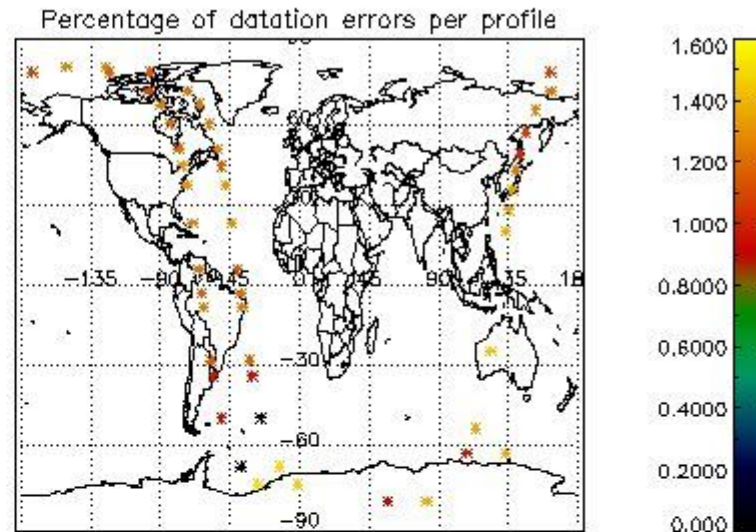
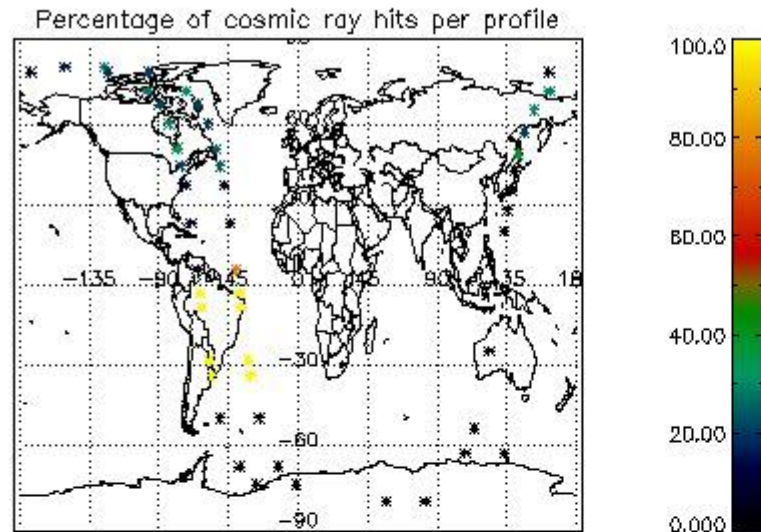
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	28.0000 %
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)

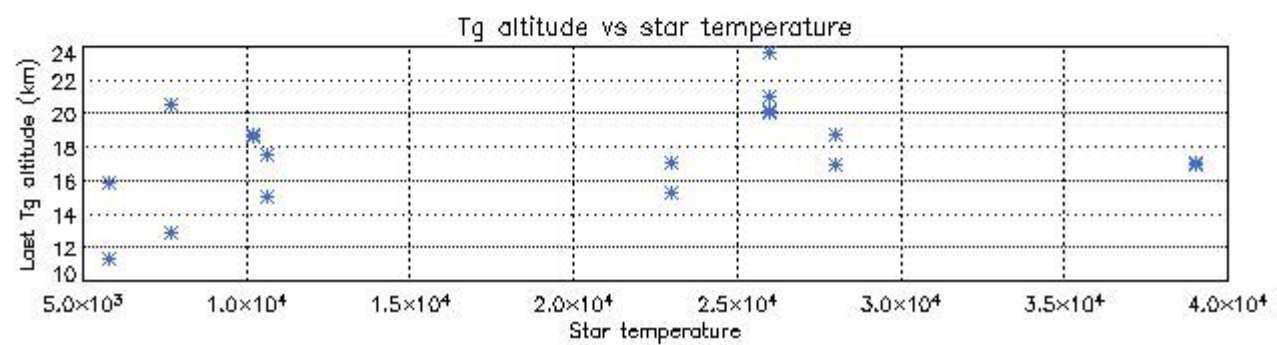
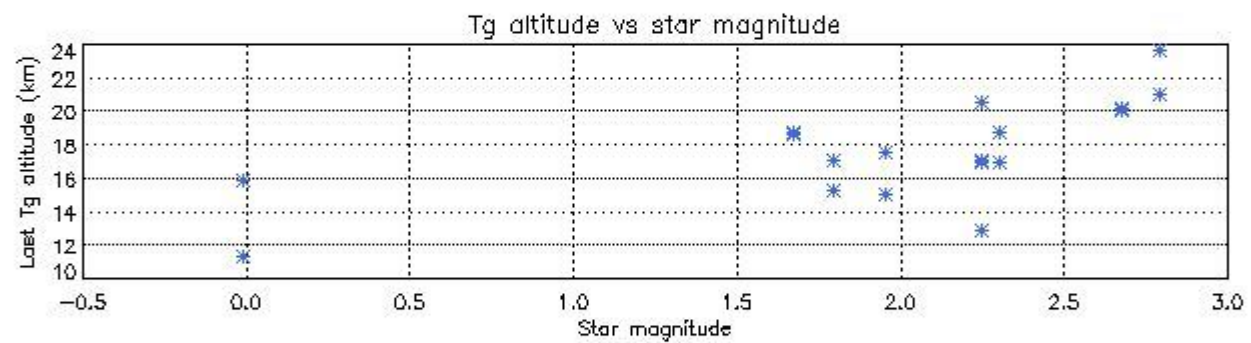
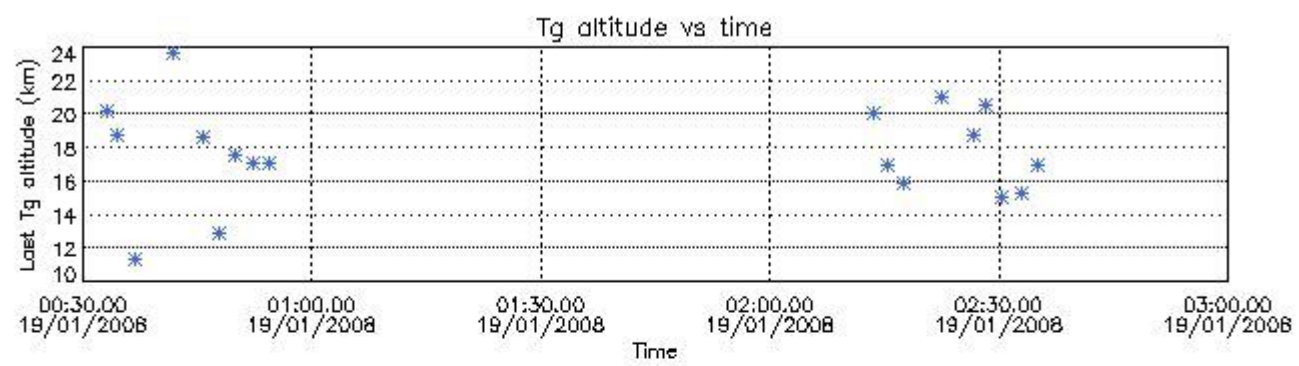
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.627	16.885	7.9976
St. deviation:	2.9826	8.6679	3.5835
Maximum:	23.583	26.883	11.322
Minimum:	11.316	3.9113	4.0733
Number of data:	18.000	17.000	4.0000

### 6.2 Plot for DARK limb products



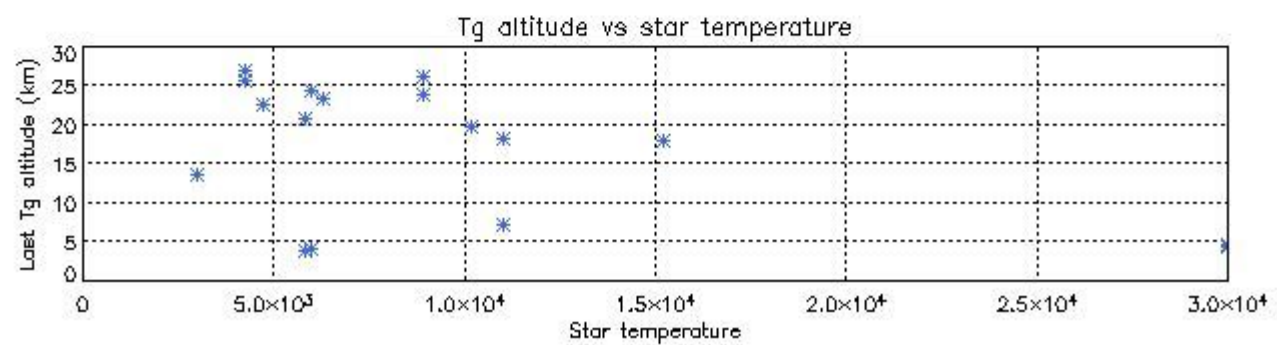
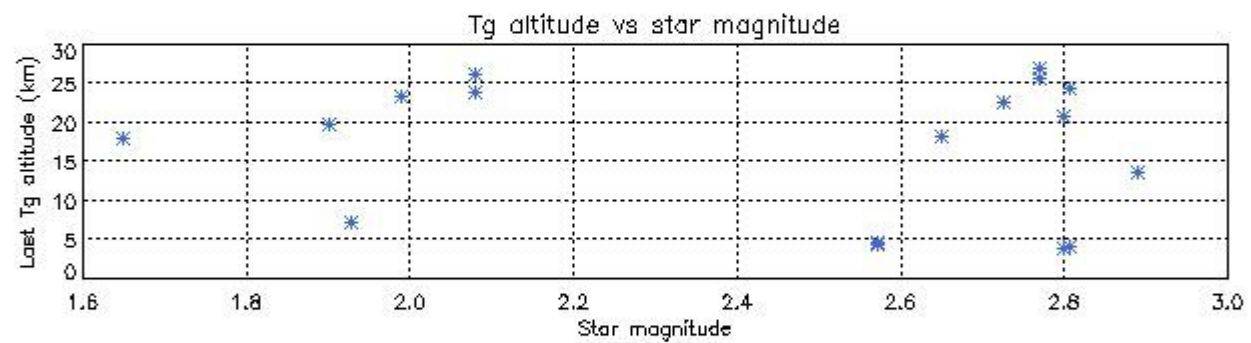
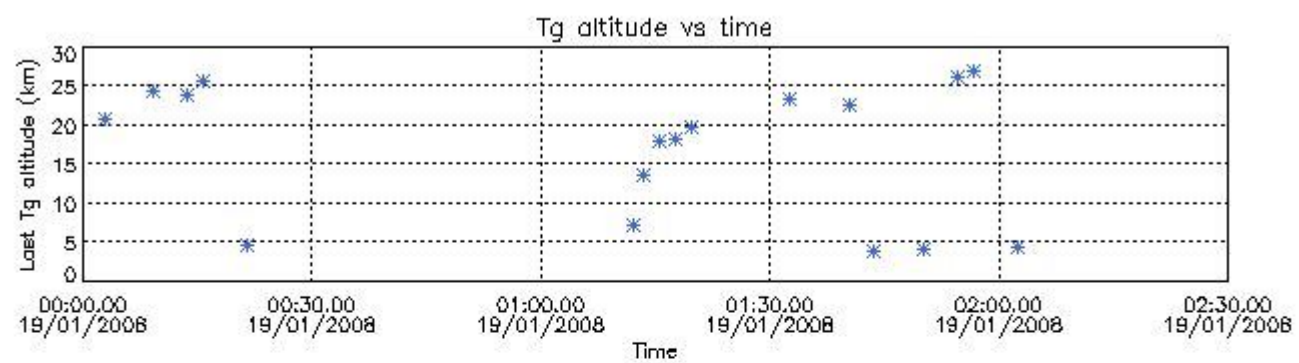
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

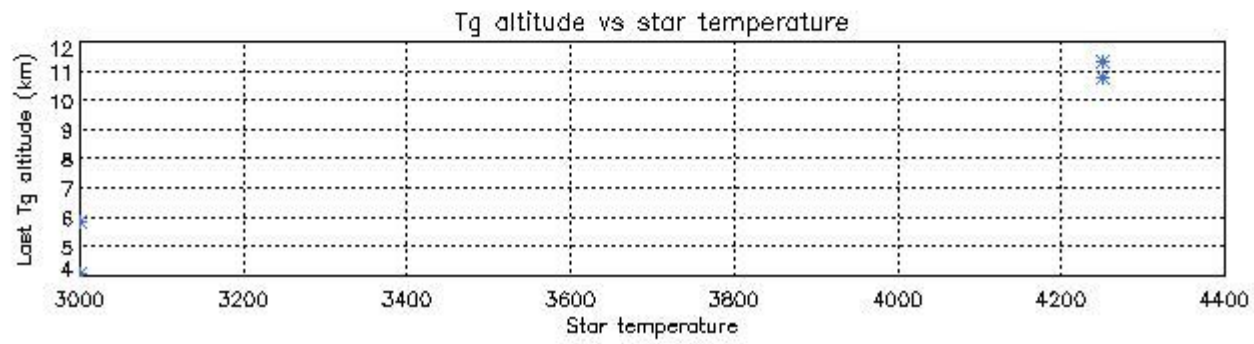
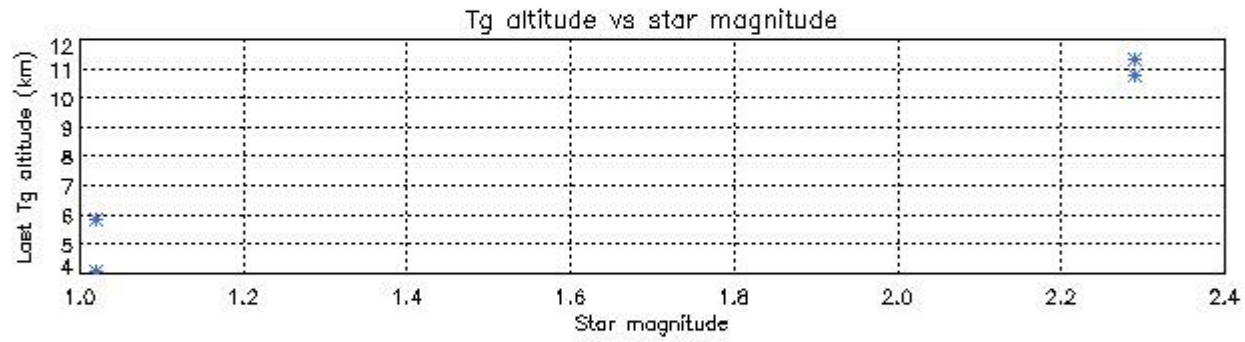
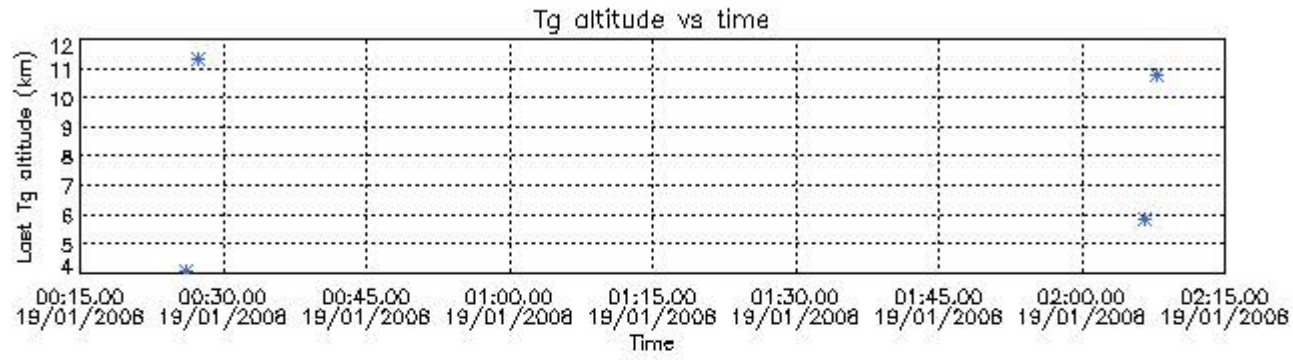


Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

## Tangent altitude at which the star is lost

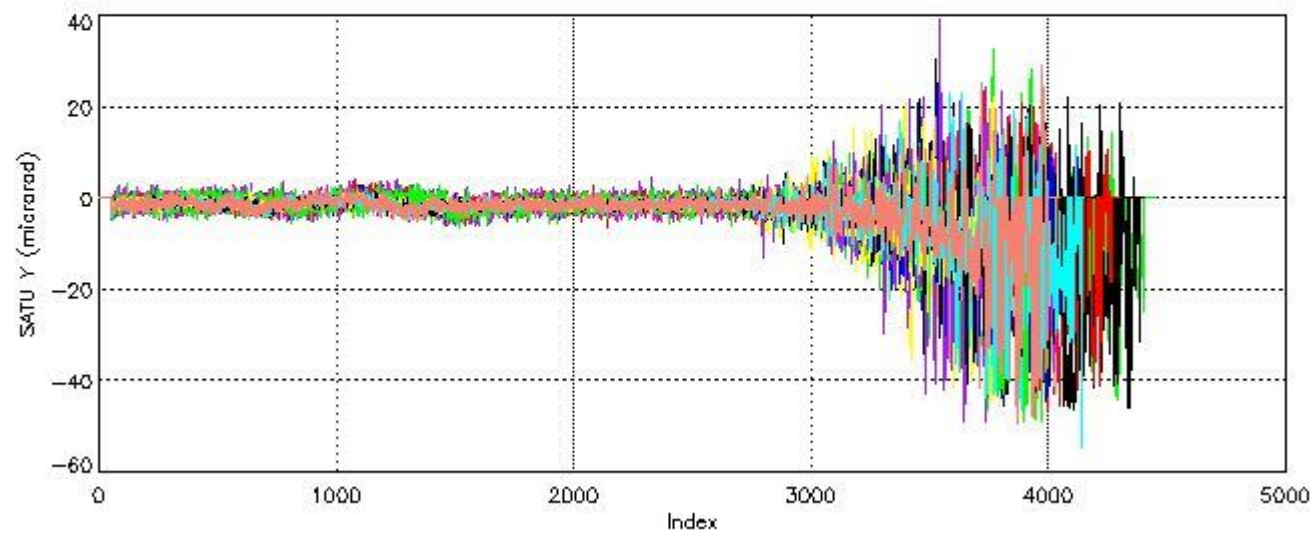
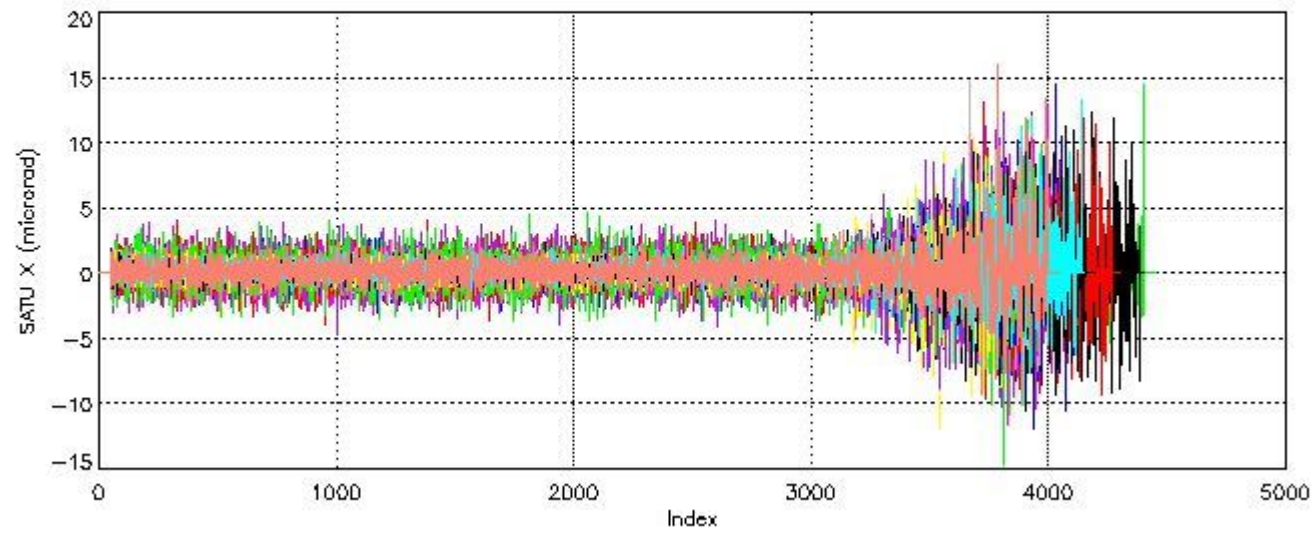


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.13222	-1.2709	0.0036364	-1.2559
St. deviation:	0.67564	0.95550	0.74453	1.1872
Maximum:	4.1000	3.5000	3.8000	3.6000
Minimum:	-3.9000	-5.4000	-3.7000	-6.3000



Number of data:	16650.	16650.	14050.	14050.
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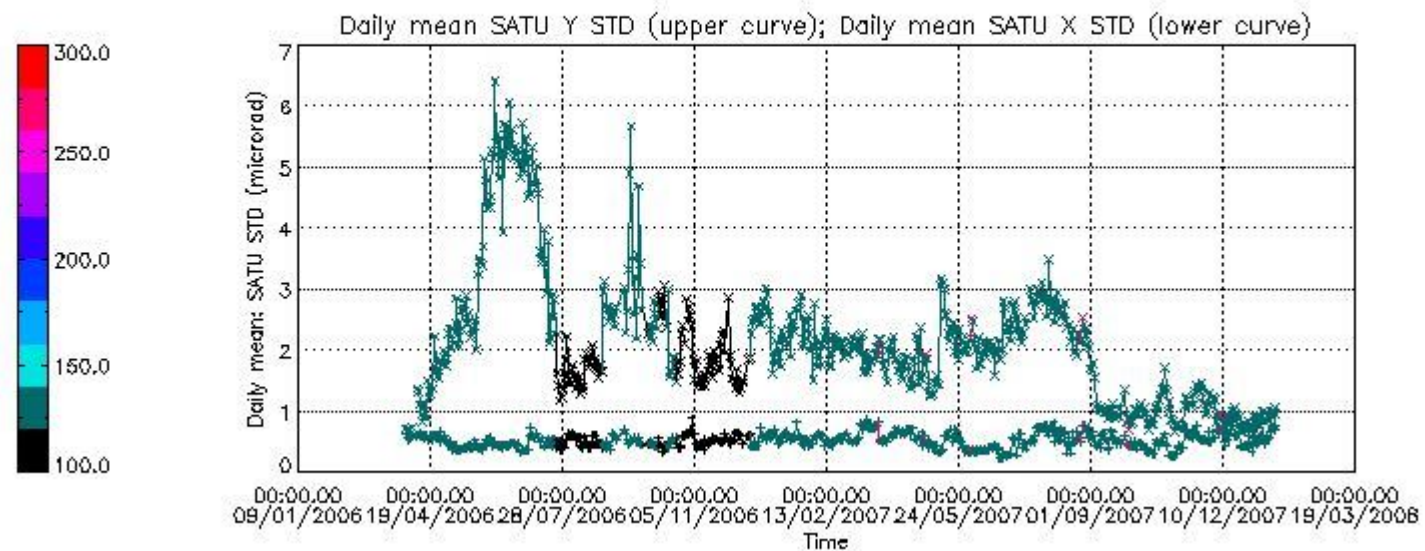
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

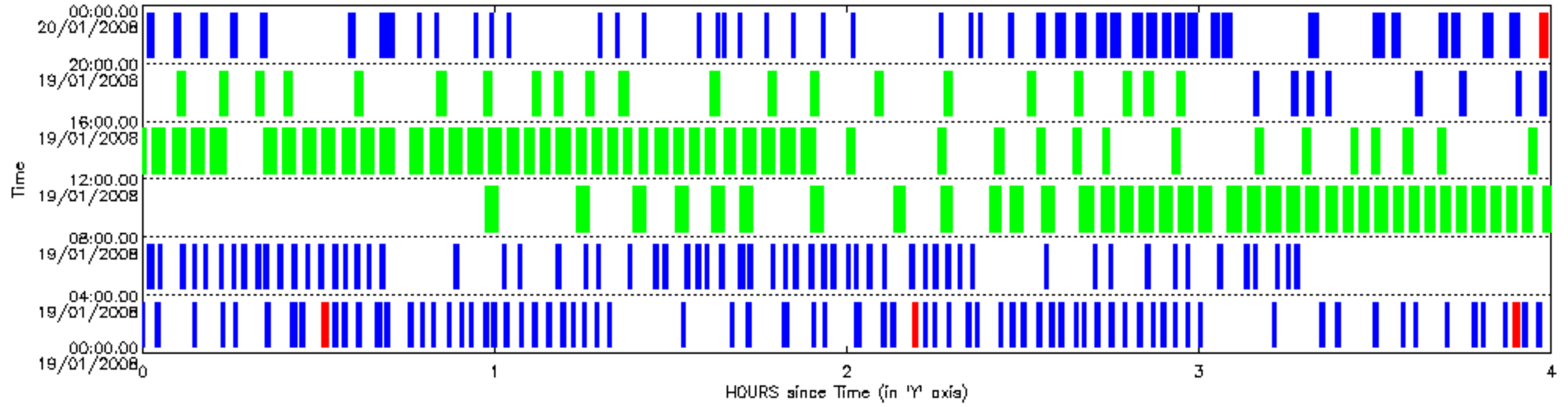
Lower curve: STD of SATU X axis

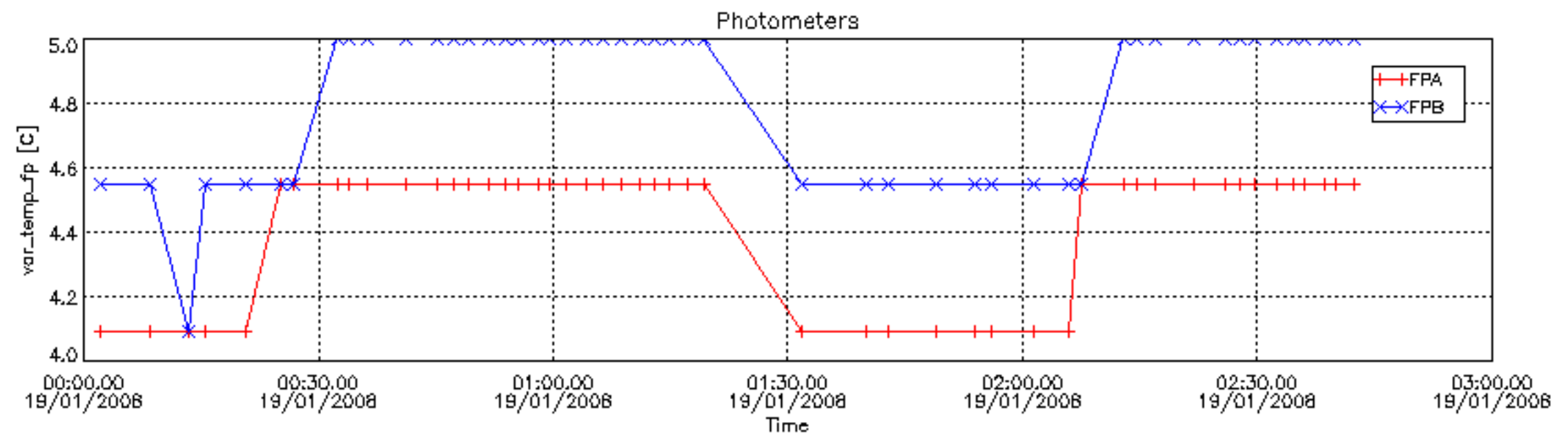
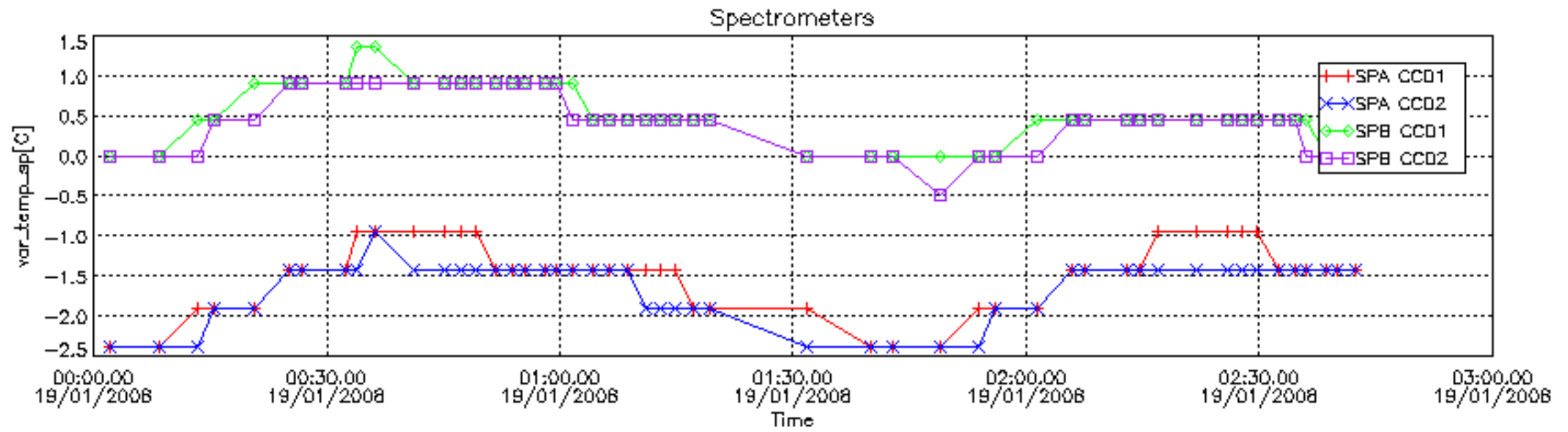


### 8. Auxiliary Data Files used for the production reported in section 2.4

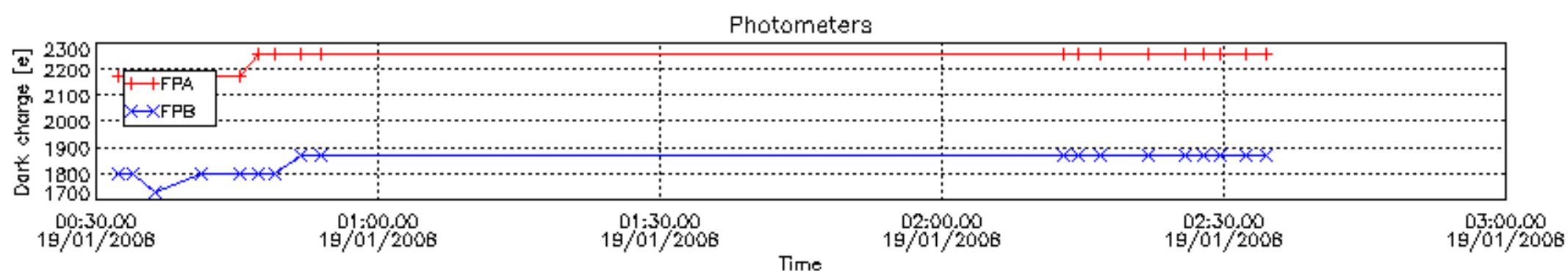
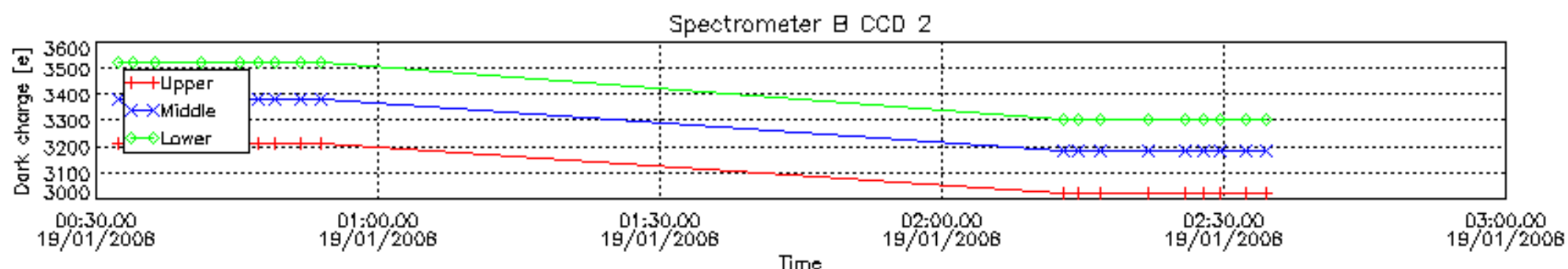
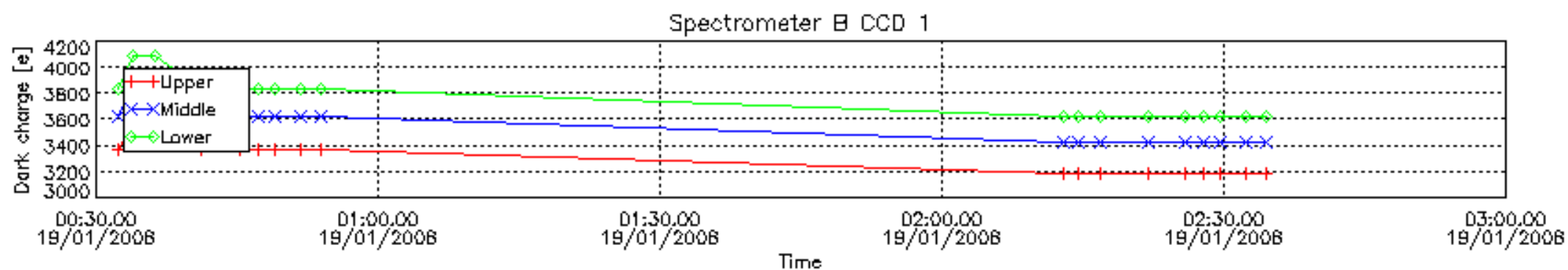
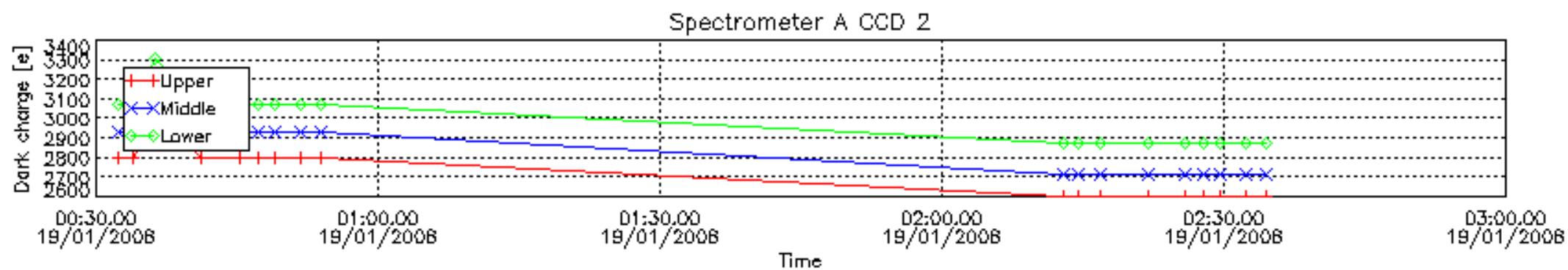
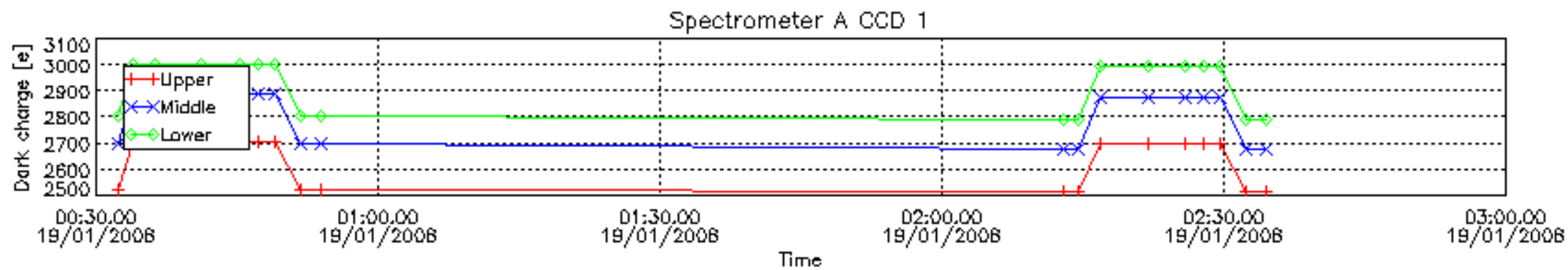
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	19-JAN-2008 00:02:07
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080118_162059_20080116_000000_20100101_000000	1	19-JAN-2008 00:02:07
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	19-JAN-2008 00:02:07
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	19-JAN-2008 00:02:07
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	19-JAN-2008 00:02:07
ECMWF_FILE	AUX_ECF_AXNECM20080118_073111_20080118_210000_20080119_090000	1	19-JAN-2008 00:02:07
OPTIONAL_ECMWF_FILE	MISSING	1	19-JAN-2008 00:02:07
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080118_205435_000060572065_00157_30772_4971.N1	1	19-JAN-2008 00:02:07
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080119_002148_000054192065_00159_30774_4973.N1	6	19-JAN-2008 00:25:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080119_015726_000041442065_00160_30775_4974.N1	35	19-JAN-2008 02:01:20



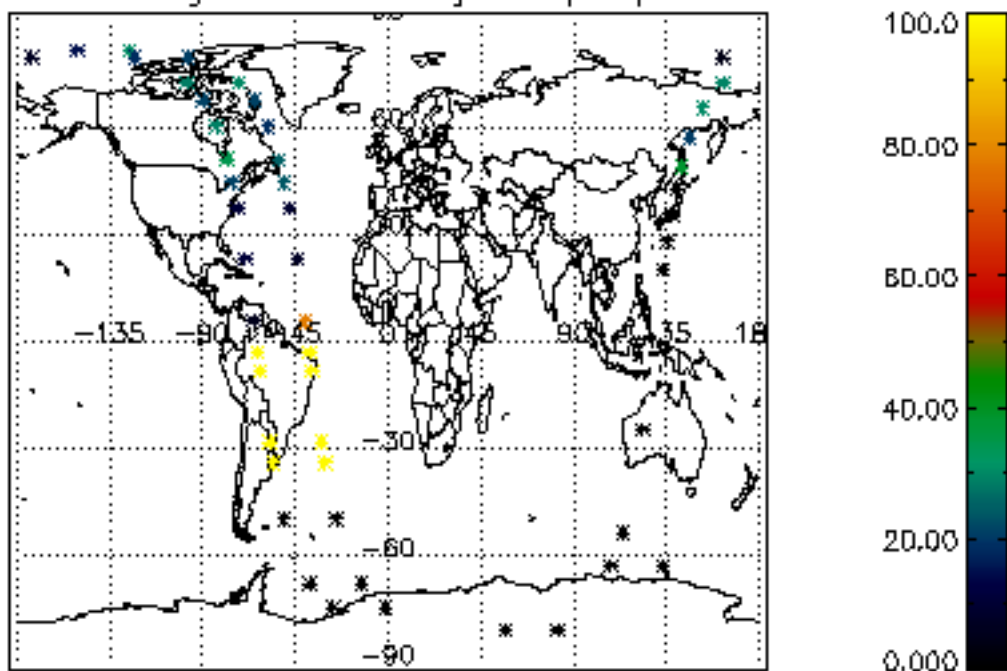




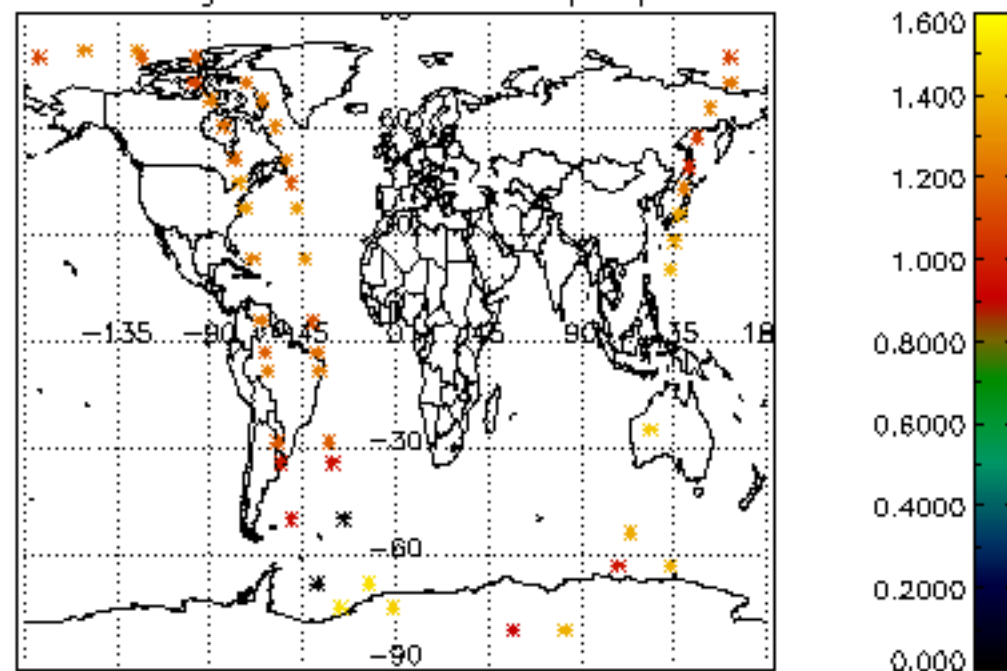




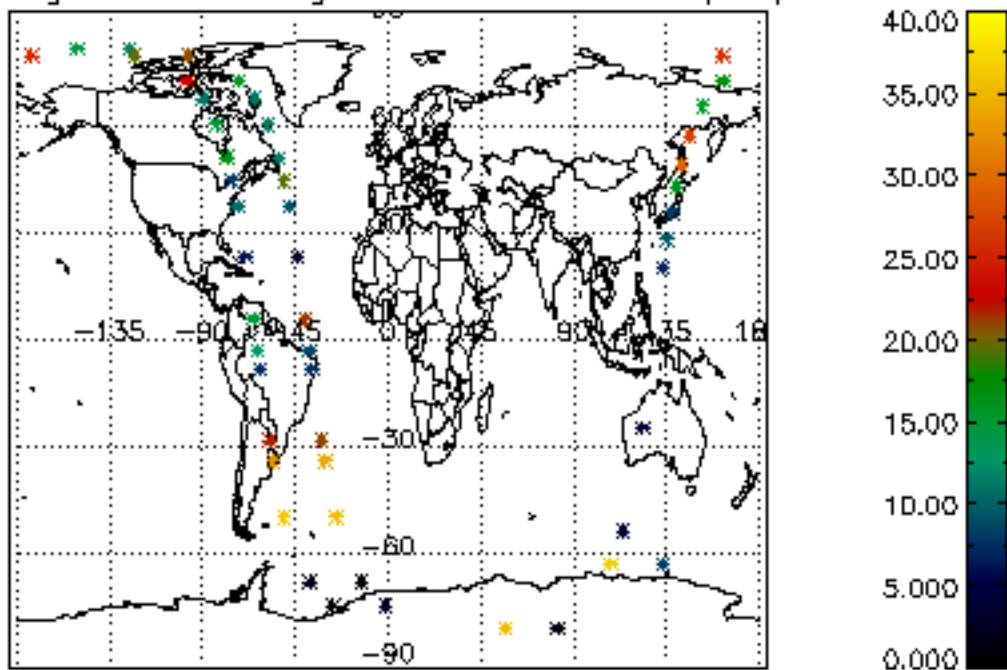
Percentage of cosmic ray hits per profile



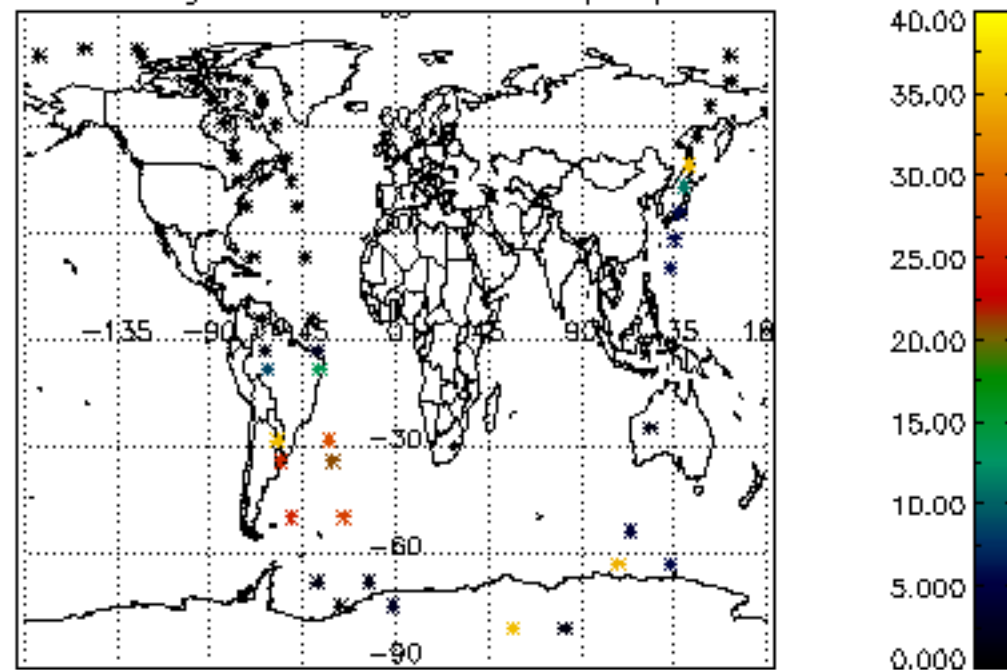
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

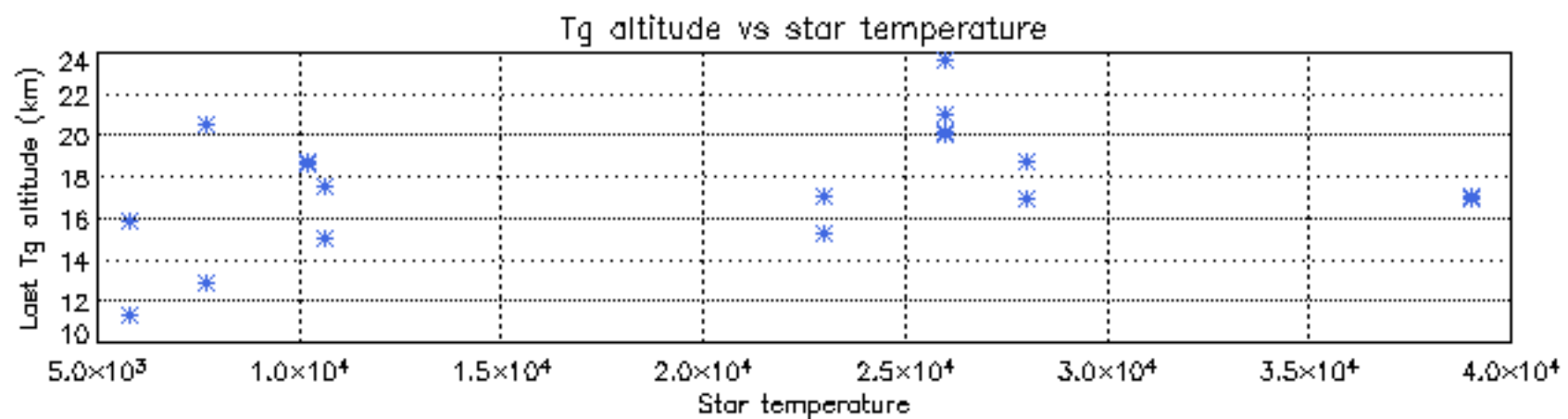
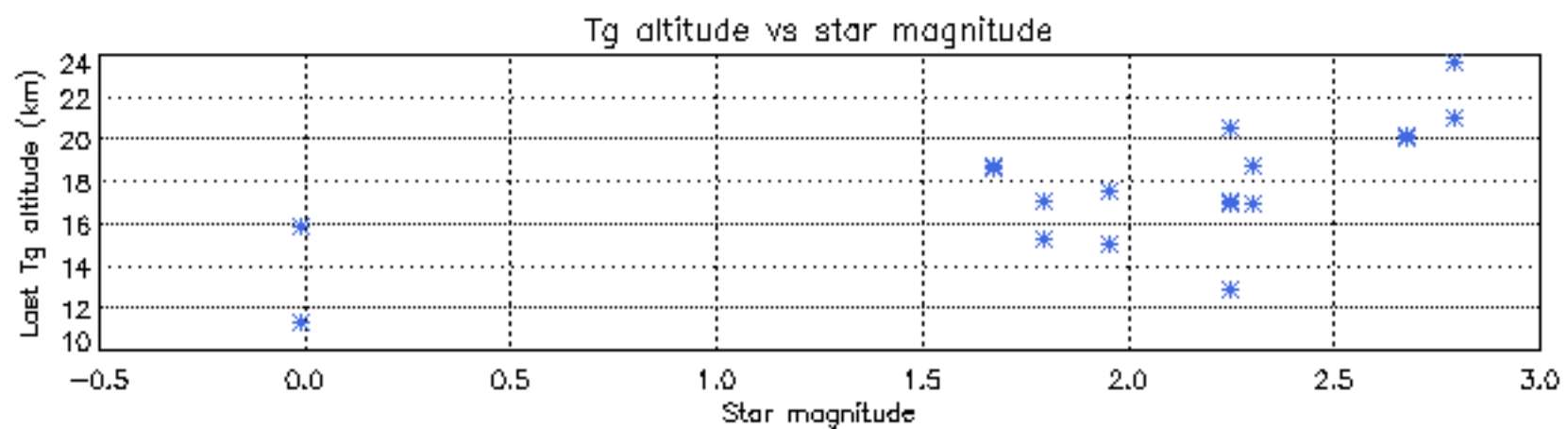
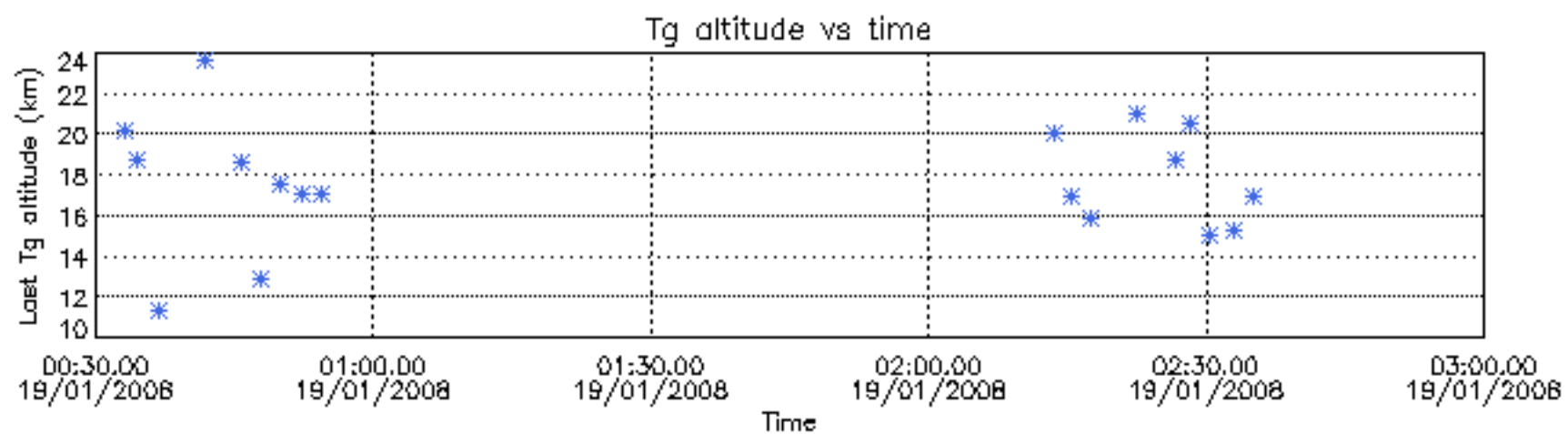


Percentage of saturation errors per profile

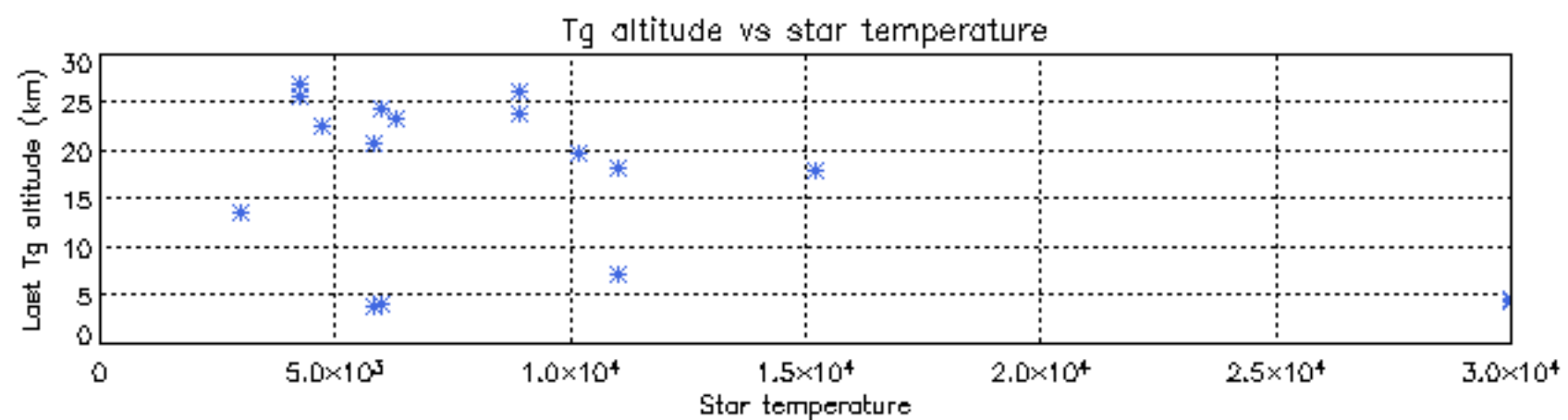
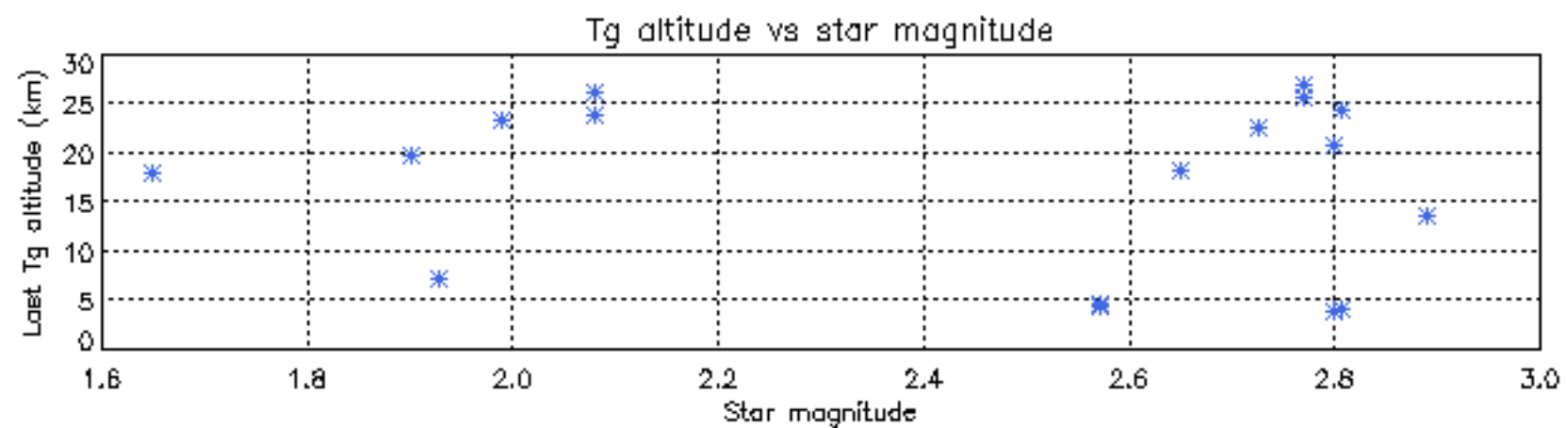
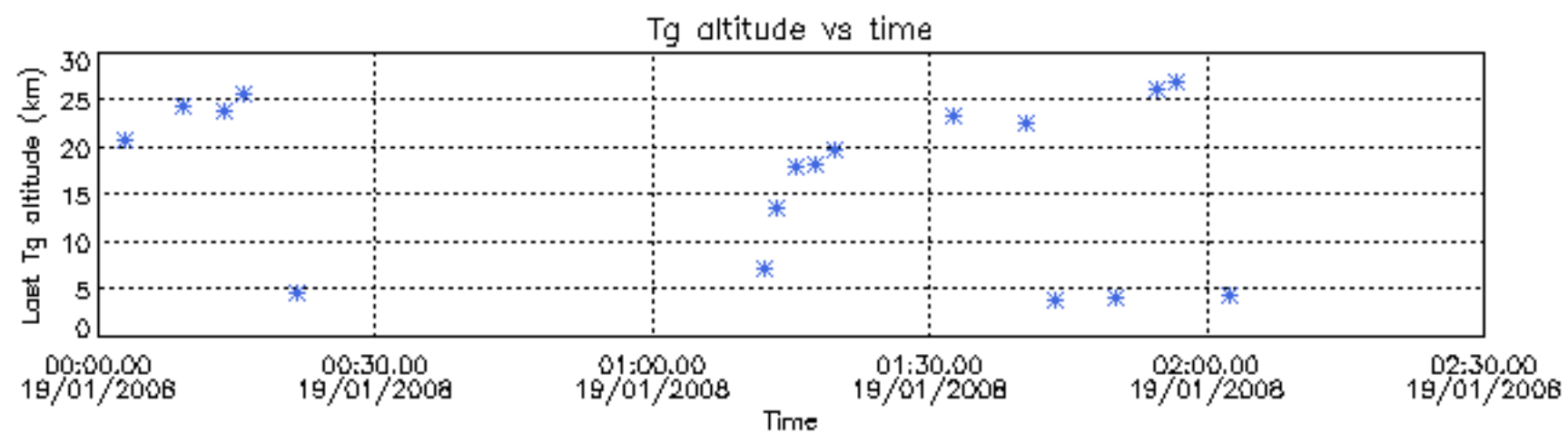




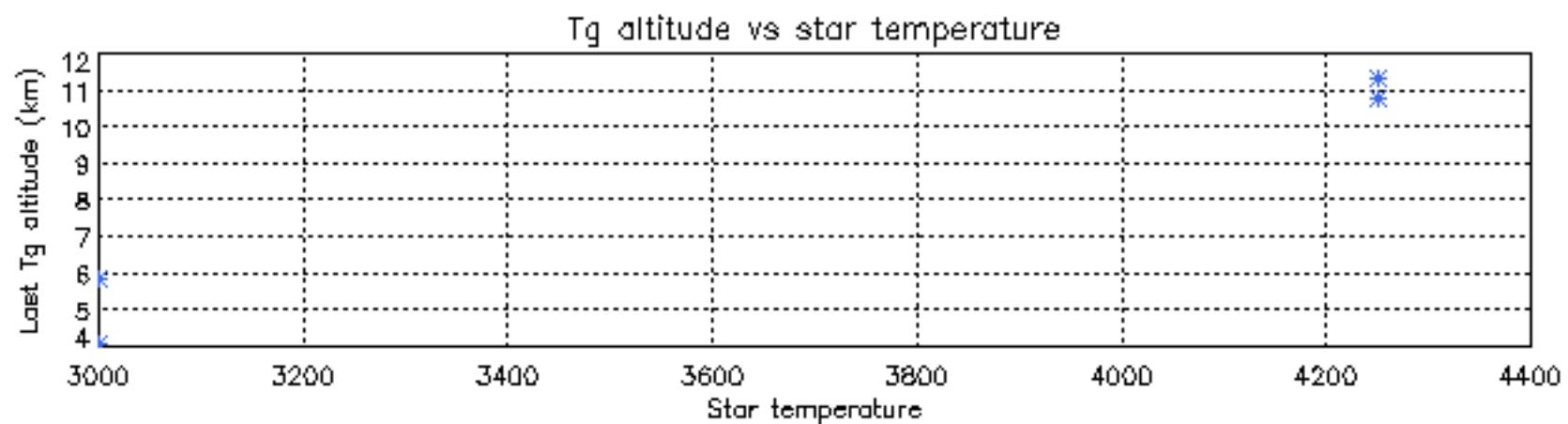
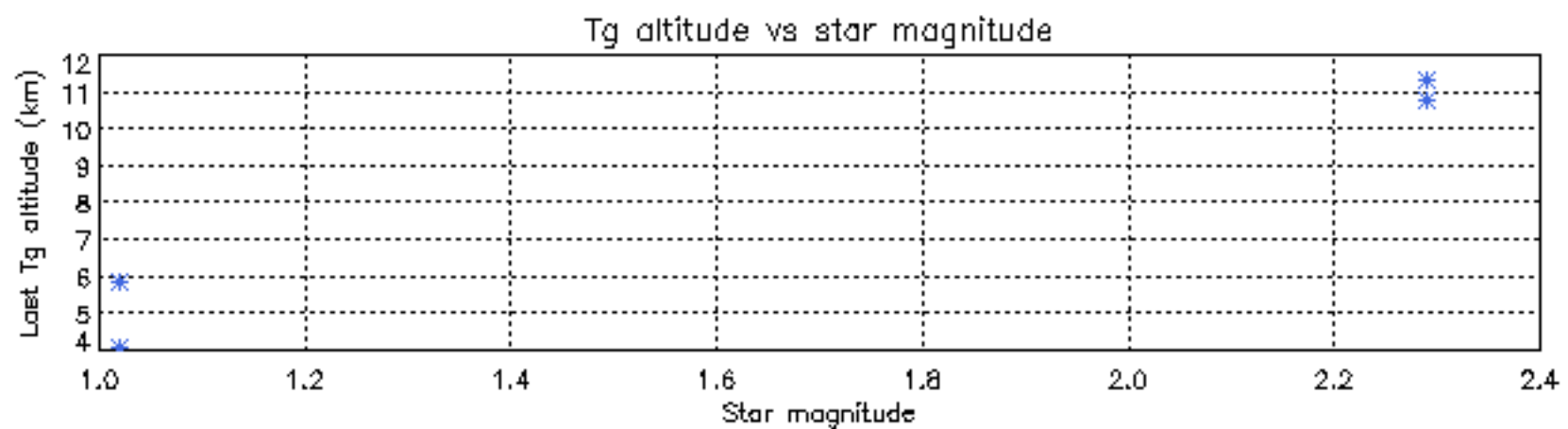
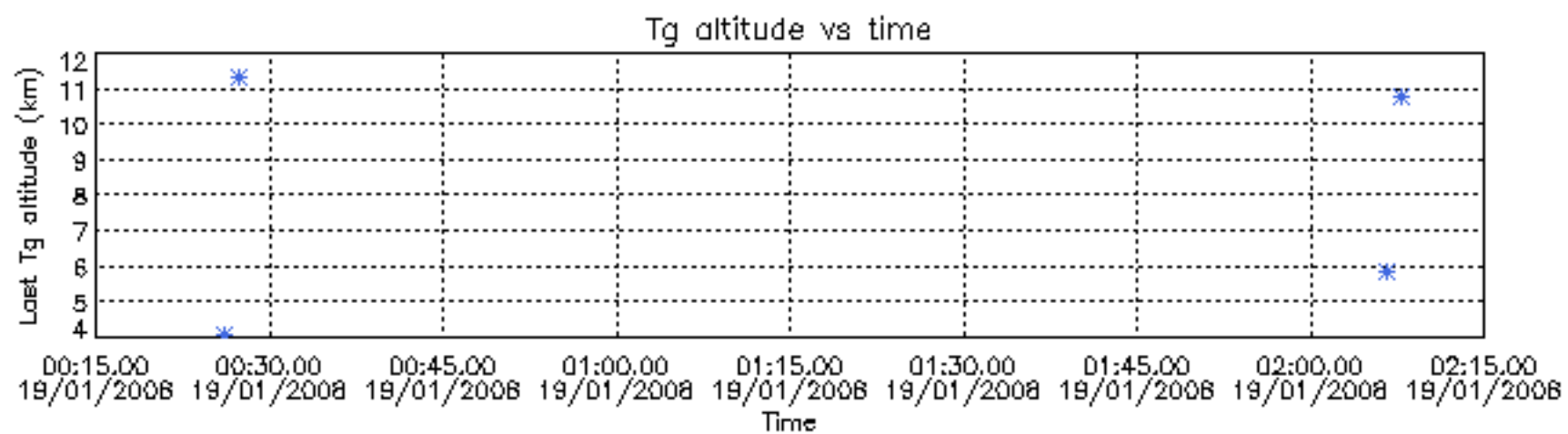
Tangent altitude at which the star is lost



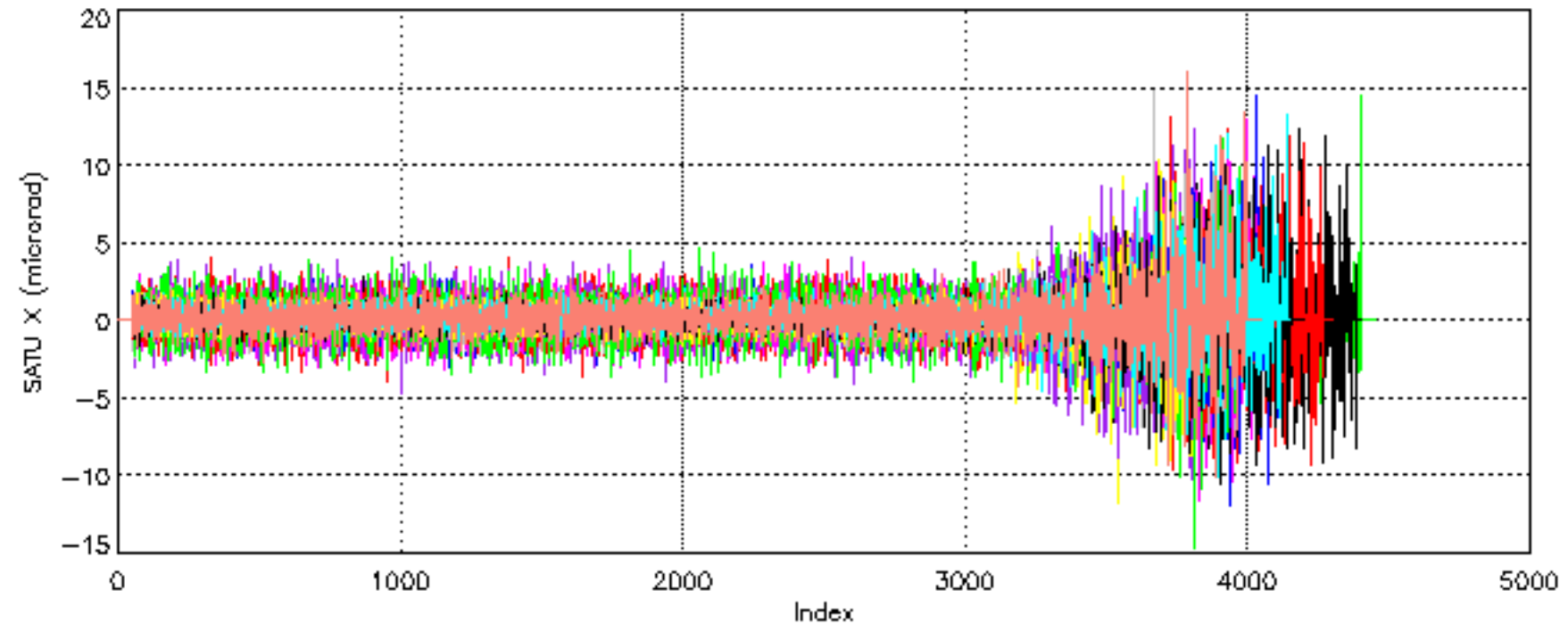
Tangent altitude at which the star is lost

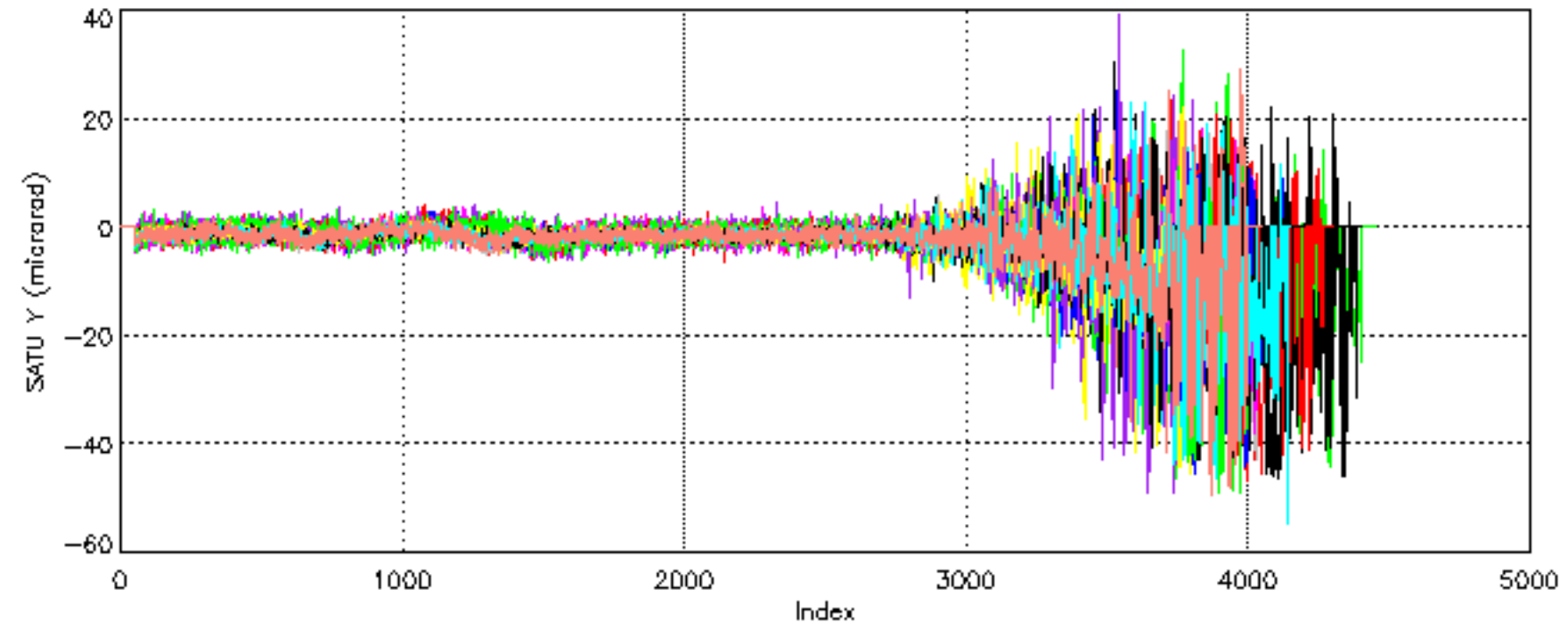


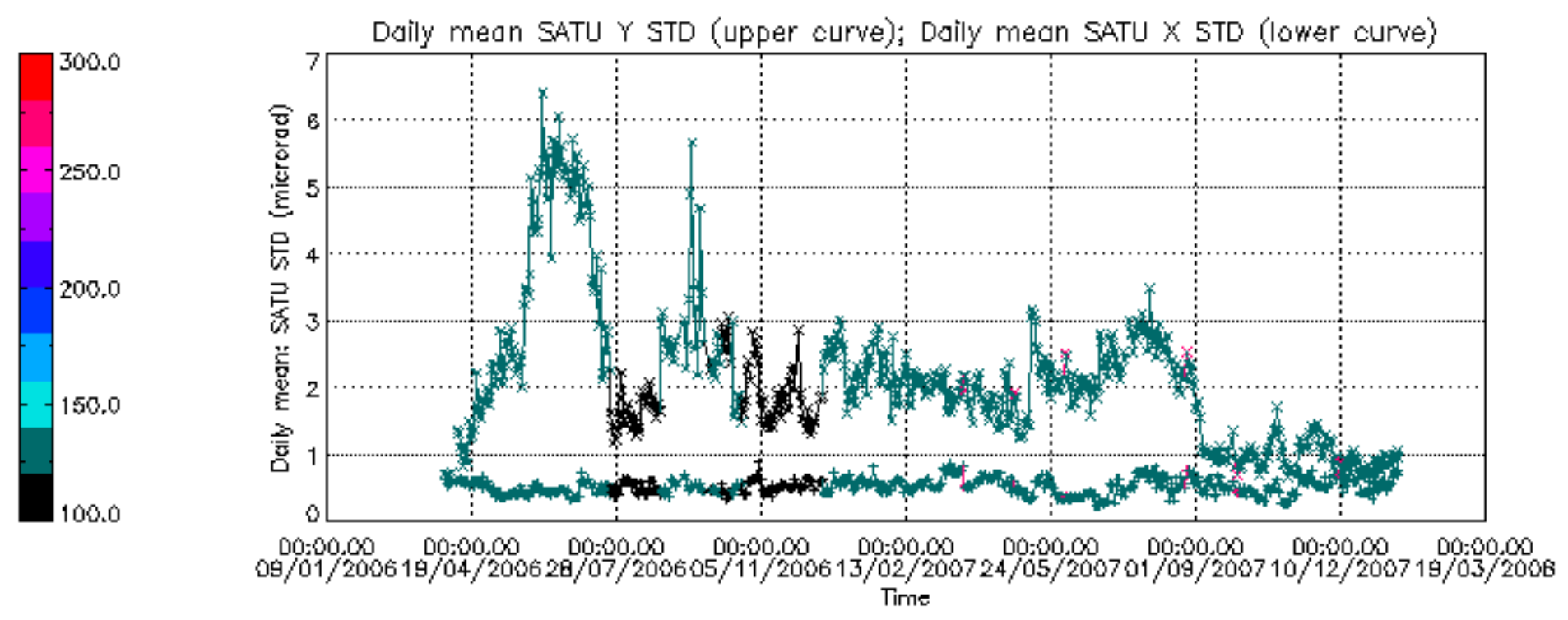
Tangent altitude at which the star is lost











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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  
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 9; 977.3; 01-JAN-2008 01:57:06; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;30518  
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 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  
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 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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 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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 20; 1319.9; 01-JAN-2008 03:43:25; Dark ; 38.5; 108; Alp Col ; 2.65; 15200;occ; 77; 0;30519  
 21; 1569.0; 01-JAN-2008 03:47:34; Dark ; 45.5; 47; 2Bet CMA ; 1.98; 28000;occ; 91; 0;30519  
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 4; -1614.7; 01-JAN-2008 04:35:06; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;30519  
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 7; -1007.2; 01-JAN-2008 04:45:14; Bright; 33.0; 120; 1Del Oph ; 2.73; 3200;occ; 66; 0;30519  
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 10; -360.4; 01-JAN-2008 04:56:01; Dark ; 38.0; 131; Gam Lup ; 2.80; 26000;occ; 76; 0;30519  
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 12; -193.9; 01-JAN-2008 04:58:47; Dark ; 37.0; 78; Alp Lup ; 2.30; 28000;occ; 74; 0;30519  
 13; -105.9; 01-JAN-2008 05:00:15; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;30519  
 14; -2.0; 01-JAN-2008 05:01:59; Dark ; 52.0; 4; Alp1Cen ; -0.01; 5800;occ; 104; 0;30519  
 15; 227.5; 01-JAN-2008 05:05:49; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;30520



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16; 398.5; 01-JAN-2008 05:08:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30520
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19; 724.0; 01-JAN-2008 05:14:05; Dark ; 45.5; 41; Eps Car ; 1.86; 4100;occ; 91; 0;30520
20; 977.9; 01-JAN-2008 05:18:19; Dark ; 53.0; 2; Alp Car ;-0.74; 7000;occ; 106; 0;30520
21; 1320.2; 01-JAN-2008 05:24:01; Dark ; 37.5; 108; Alp Col ; 2.65; 15200;occ; 75; 0;30520
22; 1569.1; 01-JAN-2008 05:28:10; Dark ; 43.0; 47; 2Bet CMA ; 1.98; 28000;occ; 86; 0;30520
23; 1769.4; 01-JAN-2008 05:31:30; Dark ; 50.5; 7; 19Bet Ori ; 0.10; 14000;occ; 101; 0;30520
24; 1881.5; 01-JAN-2008 05:33:23; Dark ; 39.0; 30; 46Eps Ori ; 1.69; 30000;occ; 78; 0;30520
25; 2033.3; 01-JAN-2008 05:35:54; Dark ; 46.0; 14; 58Alp Ori ; 0.87; 3000;occ; 92; 0;30520
26; 2200.7; 01-JAN-2008 05:38:42; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30520
27; 2398.0; 01-JAN-2008 05:41:59; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30520
28; 2472.6; 01-JAN-2008 05:43:14; Bright; 36.5; 114; 3Iot Aur ; 2.69; 4600;occ; 73; 0;30520
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30; 2693.3; 01-JAN-2008 05:46:54; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 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
10; -360.0; 01-JAN-2008 06:36:37; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30520
11; -281.6; 01-JAN-2008 06:37:55; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;30520
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
14; -1.6; 01-JAN-2008 06:42:35; Dark ; 51.5; 4; Alp1Cen ;-0.01; 5800;occ; 103; 0;30520
15; 228.1; 01-JAN-2008 06:46:25; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30521
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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21; 1320.4; 01-JAN-2008 07:04:37; Dark ; 38.0; 108; Alp Col ; 2.65; 15200;occ; 76; 0;30521
22; 1569.3; 01-JAN-2008 07:08:46; Dark ; 42.0; 47; 2Bet CMA ; 1.98; 28000;occ; 84; 0;30521
23; 1769.6; 01-JAN-2008 07:12:07; Dark ; 15.0; 7; 19Bet Ori ; 0.10; 14000;occ; 30; 0;30521
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13; 4424.1; 02-JAN-2008 09:05:20; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;30536
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17; 5199.9; 02-JAN-2008 09:18:16; Bright; 37.5; 104; 27Bet Lib ; 2.61; 13100;occ; 75; 0;30536
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31; 7607.3; 02-JAN-2008 09:58:23; Dark ; 43.0; 47; 2Bet CMa ; 1.98; 28000;occ; 86; 0;30536
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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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14; 3923.4; 03-JAN-2008 21:50:10; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30558
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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
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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31; 7387.8; 04-JAN-2008 08:51:30; Dark ; 28.0; 23; 21Eps CMA ; 1.50; 26000;occ; 56; 0;30564  
32; 7611.4; 04-JAN-2008 08:55:13; Dark ; 41.5; 47; 2Bet CMA ; 1.98; 28000;occ; 83; 0;30564

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5; 2395.5; 04-JAN-2008 09:08:53; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30565  
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8; 2690.3; 04-JAN-2008 09:13:48; Bright; 38.5; 6; 13Alp Aur ; 0.08; 3400;occ; 77; 0;30565  
9; 3423.8; 04-JAN-2008 09:26:02; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;30565  
10; 3686.8; 04-JAN-2008 09:30:25; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30565  
11; 3923.6; 04-JAN-2008 09:34:22; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;30565  
12; 4055.6; 04-JAN-2008 09:36:34; Bright; 52.0; 130; 23Bet Dra ; 2.80; 5800;occ; 104; 0;30565  
13; 4428.7; 04-JAN-2008 09:42:47; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 0;30565  
14; 4553.6; 04-JAN-2008 09:44:52; Bright; 38.5; 67; 5Alp CrB ; 2.22; 11000;occ; 77; 0;30565  
15; 4903.6; 04-JAN-2008 09:50:42; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;30565  
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  
18; 5423.8; 04-JAN-2008 09:59:22; Dark ; 37.0; 158; 6Pi Sco ; 2.91; 28000;occ; 74; 0;30565  
19; 5690.4; 04-JAN-2008 10:03:48; Dark ; 38.0; 131; Gam Lup ; 2.80; 26000;occ; 76; 0;30565  
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21; 5863.6; 04-JAN-2008 10:06:42; Dark ; 41.0; 78; Alp Lup ; 2.30; 28000;occ; 82; 0;30565  
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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4; 2031.5; 04-JAN-2008 10:43:25; Dark ; 45.0; 14; 58Alp Ori ; 0.87; 3000;occ; 90; 0;30566  
5; 2208.6; 04-JAN-2008 10:46:22; Bright; 42.0; 13; 87Alp Tau ; 0.87; 3800;occ; 84; 0;30566  
6; 2395.4; 04-JAN-2008 10:49:29; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30566

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9; 2690.2; 04-JAN-2008 10:54:24; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30566
10; 3423.8; 04-JAN-2008 11:06:38; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;30566
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24; 5959.9; 04-JAN-2008 11:48:54; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;30566
25; 6049.3; 04-JAN-2008 11:50:23; Dark ; 45.0; 4; Alp1Cen ; -0.01; 5800;occ; 90; 0;30566
26; 6287.7; 04-JAN-2008 11:54:22; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30566
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29; 6689.3; 04-JAN-2008 12:01:03; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 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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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
15; 4553.9; 04-JAN-2008 13:06:04; Bright; 46.5; 67; 5Alp CrB ; 2.22; 11000;occ; 93; 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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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
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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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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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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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23; 5776.5; 04-JAN-2008 16:47:38; Dark ; 37.5; 109; Bet Lup ; 2.68; 26000;occ; 75; 0;30569  
24; 5865.7; 04-JAN-2008 16:49:07; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;30569  
25; 5961.8; 04-JAN-2008 16:50:43; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;30569  
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27; 6289.4; 04-JAN-2008 16:56:11; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;30569  
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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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14; 3923.8; 04-JAN-2008 17:57:21; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;30570  
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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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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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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  
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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  
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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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11; 991.9; 05-JAN-2008 01:31:29; Dark ; 52.0; 2; Alp Car ; -0.74; 7000;occ; 104; 0;30575
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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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29; 2395.3; 05-JAN-2008 05:16:04; Bright; 35.5; 28; 12Bet Tau ; 1.65; 15200;occ; 71; 0;30577
30; 2475.4; 05-JAN-2008 05:17:24; Bright; 45.0; 114; 3Iot Aur ; 2.69; 4600;occ; 90; 0;30577
31; 2555.8; 05-JAN-2008 05:18:45; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;30577
32; 2689.9; 05-JAN-2008 05:20:59; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;30577
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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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8; -815.8; 05-JAN-2008 06:03:09; Bright; 41.0; 104; 27Bet Lib ; 2.61; 13100;occ; 82; 0;30577
9; -718.0; 05-JAN-2008 06:04:47; Bright; 34.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 69; 0;30577
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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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 8; 262.1; 05-JAN-2008 21:26:31; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;30587  
 9; 418.0; 05-JAN-2008 21:29:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30587  
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 13; 994.6; 05-JAN-2008 21:38:43; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;30587  
 14; 1194.5; 05-JAN-2008 21:42:03; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;30587  
 15; 1357.3; 05-JAN-2008 21:44:46; Dark ; 46.5; 23; 21Eps CMA ; 1.50; 26000;occ; 93; 0;30587  
 16; 1578.3; 05-JAN-2008 21:48:27; Dark ; 42.0; 47; 2Bet CMA ; 1.98; 28000;occ; 84; 0;30587  
 17; 1778.6; 05-JAN-2008 21:51:47; Dark ; 41.5; 7; 19Bet Ori ; 0.10; 14000;occ; 83; 0;30587  
 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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 31; 4911.0; 05-JAN-2008 22:43:59; Bright; 38.5; 102; 24Alp Ser ; 2.60; 4250;occ; 77; 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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 4; -1605.3; 05-JAN-2008 07:30:36; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;30578  
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 3; 567.4; 05-JAN-2008 09:47:24; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;30580  
 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  
 8; 1355.7; 05-JAN-2008 10:00:33; Dark ; 27.0; 23; 21Eps CMA ; 1.50; 26000;occ; 54; 0;30580  
 9; 1577.5; 05-JAN-2008 10:04:14; Dark ; 43.5; 47; 2Bet CMA ; 1.98; 28000;occ; 87; 0;30580  
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 13; 4431.0; 05-JAN-2008 10:51:48; Bright; 47.0; 133; 40Zet Her ; 2.81; 6000;occ; 94; 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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 13; 4060.8; 06-JAN-2008 15:15:48; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;30597  
 14; 4433.8; 06-JAN-2008 15:22:01; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 0;30597  
 15; 4612.3; 06-JAN-2008 15:25:00; Bright; 34.0; 127; 27Bet Her ; 2.78; 4700;occ; 68; 0;30597  
 16; 4914.6; 06-JAN-2008 15:30:02; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;30597  
 17; 5049.7; 06-JAN-2008 15:32:17; Bright; 35.0; 120; 1Del Oph ; 2.73; 3200;occ; 70; 0;30597  
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 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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 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  
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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  
 26; 6706.0; 06-JAN-2008 17:40:30; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30598  
 27; 6793.9; 06-JAN-2008 17:41:57; Dark ; 39.5; 41; Eps Car ; 1.86; 4100;occ; 79; 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  
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 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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 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
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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
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9; 759.0; 06-JAN-2008 22:43:46; Dark ; 52.5; 41; Eps Car ; 1.86; 4100;occ; 105; 0;30602
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12; 1361.1; 06-JAN-2008 22:53:48; Dark ; 41.0; 23; 21Eps CMa ; 1.50; 26000;occ; 82; 0;30602
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
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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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5; 26.1; 07-JAN-2008 00:12:09; Dark ; 51.5; 4; Alp1Cen ; -0.01; 5800;occ; 103; 0;30603
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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8; 575.3; 07-JAN-2008 00:21:18; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;30603
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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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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13; 4614.2; 07-JAN-2008 08:11:01; Bright; 53.0; 127; 27Bet Her ; 2.78; 4700;occ; 106; 0;30607
14; 4918.2; 07-JAN-2008 08:16:05; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;30607
15; 5052.7; 07-JAN-2008 08:18:20; Bright; 37.5; 120; 1Del Oph ; 2.73; 3200;occ; 75; 0;30607
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17; 5706.1; 07-JAN-2008 08:29:13; Dark ; 38.0; 131; Gam Lup ; 2.80; 26000;occ; 76; 0;30607
18; 5795.4; 07-JAN-2008 08:30:42; Dark ; 39.5; 109; Bet Lup ; 2.68; 26000;occ; 79; 0;30607
19; 5885.2; 07-JAN-2008 08:32:12; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;30607
20; 6063.9; 07-JAN-2008 08:35:11; Dark ; 42.0; 4; Alp1Cen ; -0.01; 5800;occ; 84; 0;30607
21; 6309.4; 07-JAN-2008 08:39:16; Dark ; 48.5; 12; Alp1Cru ; 0.77; 30000;occ; 97; 0;30607
22; 6459.9; 07-JAN-2008 08:41:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30607
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
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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
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 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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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  
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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  
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19; 5885.8; 07-JAN-2008 10:12:49; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;30608  
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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  
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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  
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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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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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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  
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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  
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 17; 5380.9; 07-JAN-2008 13:25:36; Dark ; 41.5; 80; 7Del Sco ; 2.32; 30000;occ; 83; 0;30610  
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 19; 5797.0; 07-JAN-2008 13:32:32; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30610  
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 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  
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 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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 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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 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  
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 15; 4919.7; 07-JAN-2008 14:58:30; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;30611  
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 17; 5381.4; 07-JAN-2008 15:06:12; Dark ; 40.0; 80; 7Del Sco ; 2.32; 30000;occ; 80; 0;30611  
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 19; 5797.5; 07-JAN-2008 15:13:08; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30611  
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 21; 6065.4; 07-JAN-2008 15:17:36; Dark ; 49.0; 4; Alp1Cen ;-0.01; 5800;occ; 98; 0;30611  
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 6; 2268.1; 07-JAN-2008 15:54:55; Bright; 37.0; 176; 23Zet Tau ; 3.02; 22000;occ; 74; 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  
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 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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 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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8;	3424.8;	11-JAN-2008	07:25:20;	Bright;		37.0;	49;	1Alp UMi	;	1.99;	6300;occ;	74;	0;	30664
9;	3674.0;	11-JAN-2008	07:29:29;	Bright;		35.5;	60;	7Bet UMi	;	2.08;	3950;occ;	71;	0;	30664
10;	3924.5;	11-JAN-2008	07:33:39;	Bright;		36.0;	119;	14Eta Dra	;	2.73;	4700;occ;	72;	0;	30664
11;	4069.8;	11-JAN-2008	07:36:05;	Bright;		35.5;	130;	23Bet Dra	;	2.80;	5800;occ;	71;	0;	30664
12;	4444.0;	11-JAN-2008	07:42:19;	Bright;		35.5;	133;	40Zet Her	;	2.81;	6000;occ;	71;	0;	30664
13;	4625.8;	11-JAN-2008	07:45:21;	Bright;		35.0;	127;	27Bet Her	;	2.78;	4700;occ;	70;	0;	30664
14;	5071.9;	11-JAN-2008	07:52:47;	Bright;		37.5;	120;	1Del Oph	;	2.73;	3200;occ;	75;	0;	30664
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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
18;	5730.2;	11-JAN-2008	08:03:45;	Dark	;	40.0;	131;	Gam Lup	;	2.80;	26000;occ;	80;	0;	30664
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21;	6028.8;	11-JAN-2008	08:08:44;	Dark	;	31.0;	95;	Zet Cen	;	2.55;	26000;occ;	62;	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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27;	6819.8;	11-JAN-2008	08:21:55;	Dark	;	46.5;	41;	Eps Car	;	1.86;	4100;occ;	93;	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
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
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17;	5425.3;	11-JAN-2008	09:39:16;	Dark	;	46.0;	16;	21Alp Sco	;	1.02;	3000;occ;	92;	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
23;	6297.8;	11-JAN-2008	09:53:49;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	30665
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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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 23; 1626.4; 24-JAN-2008 05:06:08; Dark ; 45.0; 1; 9Alp CMA ; -1.44; 11000;occ; 90; 0;30849  
 24; 2057.7; 24-JAN-2008 05:13:19; Dark ; 45.5; 14; 58Alp Ori ; 0.87; 3000;occ; 91; 0;30849  
 25; 2187.8; 24-JAN-2008 05:15:29; Bright; 39.0; 44; 24Gam Gem ; 1.93; 11000;occ; 78; 0;30849  
 26; 2294.0; 24-JAN-2008 05:17:15; Bright; 38.5; 151; 13Mu Gem ; 2.89; 3000;occ; 77; 0;30849  
 27; 2429.5; 24-JAN-2008 05:19:31; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;30849  
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 6; -535.4; 24-JAN-2008 06:10:42; Dark ; 46.0; 16; 21Alp Sco ; 1.02; 3000;occ; 92; 0;30849  
 7; -451.0; 24-JAN-2008 06:12:06; Dark ; 43.0; 25; 35Lam Sco ; 1.62; 28000;occ; 86; 0;30849  
 8; -358.2; 24-JAN-2008 06:13:39; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;30849  
 9; -243.0; 24-JAN-2008 06:15:34; Dark ; 36.0; 147; Alp Ara ; 2.88; 26000;occ; 72; 0;30849  
 10; -147.8; 24-JAN-2008 06:17:10; Dark ; 40.5; 141; Bet Ara ; 2.84; 4600;occ; 81; 0;30849  
 11; 51.0; 24-JAN-2008 06:20:28; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;30850  
 12; 133.2; 24-JAN-2008 06:21:51; Dark ; 55.0; 4; Alp1Cen ; -0.01; 5800;occ; 110; 0;30850  
 13; 311.1; 24-JAN-2008 06:24:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30850  
 14; 405.9; 24-JAN-2008 06:26:23; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;30850  
 15; 652.1; 24-JAN-2008 06:30:29; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30850  
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 17; 890.8; 24-JAN-2008 06:34:28; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;30850  
 18; 1047.9; 24-JAN-2008 06:37:05; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;30850  
 19; 1174.6; 24-JAN-2008 06:39:12; Dark ; 42.0; 70; Zet Pup ; 2.25; 39000;occ; 84; 0;30850  
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 21; 1413.5; 24-JAN-2008 06:43:11; Dark ; 40.0; 23; 21Eps CMA ; 1.50; 26000;occ; 80; 0;30850  
 22; 1496.6; 24-JAN-2008 06:44:34; Dark ; 37.5; 179; 240mi2CMA ; 3.03; 24000;occ; 75; 0;30850  
 23; 1626.5; 24-JAN-2008 06:46:44; Dark ; 45.5; 1; 9Alp CMA ; -1.44; 11000;occ; 91; 0;30850  
 24; 2057.8; 24-JAN-2008 06:53:55; Dark ; 51.0; 14; 58Alp Ori ; 0.87; 3000;occ; 102; 0;30850  
 25; 2187.8; 24-JAN-2008 06:56:05; Bright; 40.5; 44; 24Gam Gem ; 1.93; 11000;occ; 81; 0;30850  
 26; 2294.1; 24-JAN-2008 06:57:51; Bright; 37.0; 151; 13Mu Gem ; 2.89; 3000;occ; 74; 0;30850  
 27; 2429.7; 24-JAN-2008 07:00:07; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;30850  
 28; 2547.2; 24-JAN-2008 07:02:05; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;30850  
 29; 2675.8; 24-JAN-2008 07:04:13; Bright; 35.0; 42; 34Bet Aur ; 1.90; 10200;occ; 70; 0;30850  
 30; 3426.6; 24-JAN-2008 07:16:44; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;30850

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 8; 2059.3; 24-JAN-2008 20:18:44; Dark ; 48.5; 14; 58Alp Ori ; 0.87; 3000;occ; 97; 0;30858  
 9; 2188.1; 24-JAN-2008 20:20:53; Bright; 38.5; 44; 24Gam Gem ; 1.93; 11000;occ; 77; 0;30858  
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 12; 2548.1; 24-JAN-2008 20:26:53; Bright; 34.5; 107; 37The Aur ; 2.65; 11000;occ; 69; 0;30858  
 13; 2676.4; 24-JAN-2008 20:29:01; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;30858  
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 15; 4085.4; 24-JAN-2008 20:52:30; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;30858  
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 17; 4768.9; 24-JAN-2008 21:03:54; Bright; 34.5; 59; 55Alp Oph ; 2.08; 8900;occ; 69; 0;30858  
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 5; -356.6; 24-JAN-2008 21:19:04; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;30858  
 6; -241.6; 24-JAN-2008 21:20:59; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;30858



7;	-146.4;	24-JAN-2008	21:22:34;	Dark	;	40.0;	141;	Bet Ara	;	2.84;	4600;occ;	80;	0;	30858
8;	53.6;	24-JAN-2008	21:25:54;	Dark	;	37.0;	134;	Bet TrA	;	2.81;	6600;occ;	74;	0;	30859
9;	137.6;	24-JAN-2008	21:27:18;	Dark	;	42.0;	4;	Alp1Cen	;	-0.01;	5800;occ;	84;	0;	30859
10;	313.6;	24-JAN-2008	21:30:14;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	30859
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12;	654.4;	24-JAN-2008	21:35:55;	Dark	;	38.0;	29;	Bet Car	;	1.67;	10200;occ;	76;	0;	30859
13;	785.3;	24-JAN-2008	21:38:06;	Dark	;	39.5;	71;	Iot Car	;	2.25;	7700;occ;	79;	0;	30859
14;	893.8;	24-JAN-2008	21:39:54;	Dark	;	38.5;	46;	Del Vel	;	1.95;	10600;occ;	77;	0;	30859
15;	1050.5;	24-JAN-2008	21:42:31;	Dark	;	38.5;	34;	Gam2Vel	;	1.79;	23000;occ;	77;	0;	30859
16;	1176.9;	24-JAN-2008	21:44:38;	Dark	;	40.5;	70;	Zet Pup	;	2.25;	39000;occ;	81;	0;	30859
17;	1266.6;	24-JAN-2008	21:46:07;	Dark	;	40.0;	117;	Pi Pup	;	2.71;	3800;occ;	80;	0;	30859
18;	1414.8;	24-JAN-2008	21:48:36;	Dark	;	41.0;	23;	21Eps CMA	;	1.50;	26000;occ;	82;	0;	30859
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
25;	2548.2;	24-JAN-2008	22:07:29;	Bright;		34.5;	107;	37The Aur	;	2.65;	11000;occ;	69;	0;	30859
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
28;	4085.4;	24-JAN-2008	22:33:06;	Bright;		37.0;	130;	23Bet Dra	;	2.80;	5800;occ;	74;	0;	30859
29;	4288.2;	24-JAN-2008	22:36:29;	Bright;		34.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	69;	0;	30859
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
32;	5267.1;	24-JAN-2008	22:52:48;	Dark	;	40.0;	86;	35Eta Oph	;	2.43;	10200;occ;	80;	0;	30859
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2;	-1749.1;	24-JAN-2008	07:31:04;	Bright;		34.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	68;	0;	30850
3;	-1268.9;	24-JAN-2008	07:39:04;	Bright;		45.0;	59;	55Alp Oph	;	2.08;	8900;occ;	90;	0;	30850
4;	-1142.4;	24-JAN-2008	07:41:11;	Bright;		34.5;	126;	60Bet Oph	;	2.77;	4250;occ;	69;	0;	30850
5;	-771.8;	24-JAN-2008	07:47:21;	Dark	;	40.5;	86;	35Eta Oph	;	2.43;	10200;occ;	81;	0;	30850
6;	-534.8;	24-JAN-2008	07:51:18;	Dark	;	56.0;	16;	21Alp Sco	;	1.02;	3000;occ;	112;	0;	30850
7;	-450.8;	24-JAN-2008	07:52:42;	Dark	;	40.0;	25;	35Lam Sco	;	1.62;	28000;occ;	80;	0;	30850
8;	-357.9;	24-JAN-2008	07:54:15;	Dark	;	42.5;	40;	The Sco	;	1.86;	7100;occ;	85;	0;	30850
9;	-242.9;	24-JAN-2008	07:56:10;	Dark	;	37.5;	147;	Alp Ara	;	2.88;	26000;occ;	75;	0;	30850
10;	-147.6;	24-JAN-2008	07:57:46;	Dark	;	42.5;	141;	Bet Ara	;	2.84;	4600;occ;	85;	0;	30850
11;	133.7;	24-JAN-2008	08:02:27;	Dark	;	43.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	87;	0;	30851
12;	311.4;	24-JAN-2008	08:05:25;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	30851
13;	406.5;	24-JAN-2008	08:07:00;	Dark	;	39.5;	12;	Alp1Cru	;	0.77;	30000;occ;	79;	0;	30851
14;	652.4;	24-JAN-2008	08:11:06;	Dark	;	37.5;	29;	Bet Car	;	1.67;	10200;occ;	75;	0;	30851
15;	782.4;	24-JAN-2008	08:13:16;	Dark	;	39.5;	71;	Iot Car	;	2.25;	7700;occ;	79;	0;	30851
16;	891.2;	24-JAN-2008	08:15:04;	Dark	;	41.0;	46;	Del Vel	;	1.95;	10600;occ;	82;	0;	30851
17;	1048.2;	24-JAN-2008	08:17:41;	Dark	;	40.5;	34;	Gam2Vel	;	1.79;	23000;occ;	81;	0;	30851
18;	1174.9;	24-JAN-2008	08:19:48;	Dark	;	40.0;	70;	Zet Pup	;	2.25;	39000;occ;	80;	0;	30851
19;	1265.1;	24-JAN-2008	08:21:18;	Dark	;	40.0;	117;	Pi Pup	;	2.71;	3800;occ;	80;	0;	30851
20;	1413.6;	24-JAN-2008	08:23:47;	Dark	;	39.0;	23;	21Eps CMA	;	1.50;	26000;occ;	78;	0;	30851
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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2;	1626.7;	24-JAN-2008	08:27:20;	Dark	;	43.0;	1;	9Alp CMA	;	-1.44;	11000;occ;	86;	0;	30851
3;	2058.1;	24-JAN-2008	08:34:31;	Dark	;	50.0;	14;	58Alp Ori	;	0.87;	3000;occ;	100;	0;	30851
4;	2187.9;	24-JAN-2008	08:36:41;	Bright;		38.0;	44;	24Gam Gem	;	1.93;	11000;occ;	76;	0;	30851
5;	2294.1;	24-JAN-2008	08:38:27;	Bright;		38.5;	151;	13Mu Gem	;	2.89;	3000;occ;	77;	0;	30851
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
8;	2675.8;	24-JAN-2008	08:44:49;	Bright;		36.5;	42;	34Bet Aur	;	1.90;	10200;occ;	73;	0;	30851
9;	3426.6;	24-JAN-2008	08:57:20;	Bright;		33.0;	49;	1Alp UMi	;	1.99;	6300;occ;	66;	0;	30851
10;	4085.2;	24-JAN-2008	09:08:18;	Bright;		36.5;	130;	23Bet Dra	;	2.80;	5800;occ;	73;	0;	30851
11;	4287.0;	24-JAN-2008	09:11:40;	Bright;		34.5;	5;	3Alp Lyr	;	0.03;	11000;occ;	69;	0;	30851
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13;	4893.8;	24-JAN-2008	09:21:47;	Bright;		34.0;	126;	60Bet Oph	;	2.77;	4250;occ;	68;	0;	30851
14;	5264.3;	24-JAN-2008	09:27:58;	Dark	;	53.0;	86;	35Eta Oph	;	2.43;	10200;occ;	106;	0;	30851
15;	5501.6;	24-JAN-2008	09:31:55;	Dark	;	56.0;	16;	21Alp Sco	;	1.02;	3000;occ;	112;	0;	30851
16;	5585.3;	24-JAN-2008	09:33:19;	Dark	;	37.5;	25;	35Lam Sco	;	1.62;	28000;occ;	75;	0;	30851
17;	5678.1;	24-JAN-2008	09:34:51;	Dark	;	41.0;	40;	The Sco	;	1.86;	7100;occ;	82;	0;	30851
18;	5793.3;	24-JAN-2008	09:36:47;	Dark	;	35.5;	147;	Alp Ara	;	2.88;	26000;occ;	71;	0;	30851
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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
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21; 6942.3; 27-JAN-2008 11:42:16; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;30895
22; 7097.1; 27-JAN-2008 11:44:51; Dark ; 40.0; 34; Gam2Vel ; 1.79; 23000;occ; 80; 0;30895
23; 7223.2; 27-JAN-2008 11:46:57; Dark ; 39.5; 70; Zet Pup ; 2.25; 39000;occ; 79; 0;30895
24; 7310.3; 27-JAN-2008 11:48:24; Dark ; 40.5; 117; Pi Pup ; 2.71; 3800;occ; 81; 0;30895
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26; 7540.4; 27-JAN-2008 11:52:14; Dark ; 38.0; 179; 240mi2Cma ; 3.03; 24000;occ; 76; 0;30895
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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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11; 4778.5; 27-JAN-2008 14:27:24; Bright; 34.5; 59; 55Alp Oph ; 2.08; 8900;occ; 69; 0;30897  
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13; 5282.1; 27-JAN-2008 14:35:48; Dark ; 40.5; 86; 35Eta Oph ; 2.43; 10200;occ; 81; 0;30897  
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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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7; 2298.9; 27-JAN-2008 15:26:40; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;30898  
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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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11; 4086.9; 27-JAN-2008 15:56:28; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;30898  
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15; 5282.5; 27-JAN-2008 16:16:24; Dark ; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;30898  
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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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