

GOMOS Daily Report 11-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	13JAN2008 06:51:48
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (11JAN2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (12JAN2008 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)

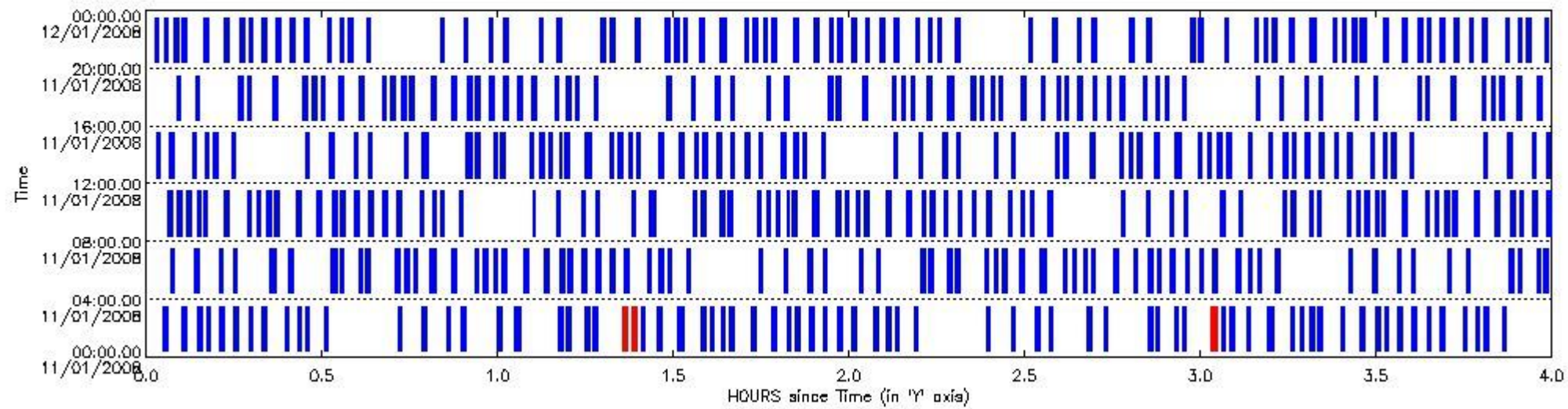
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

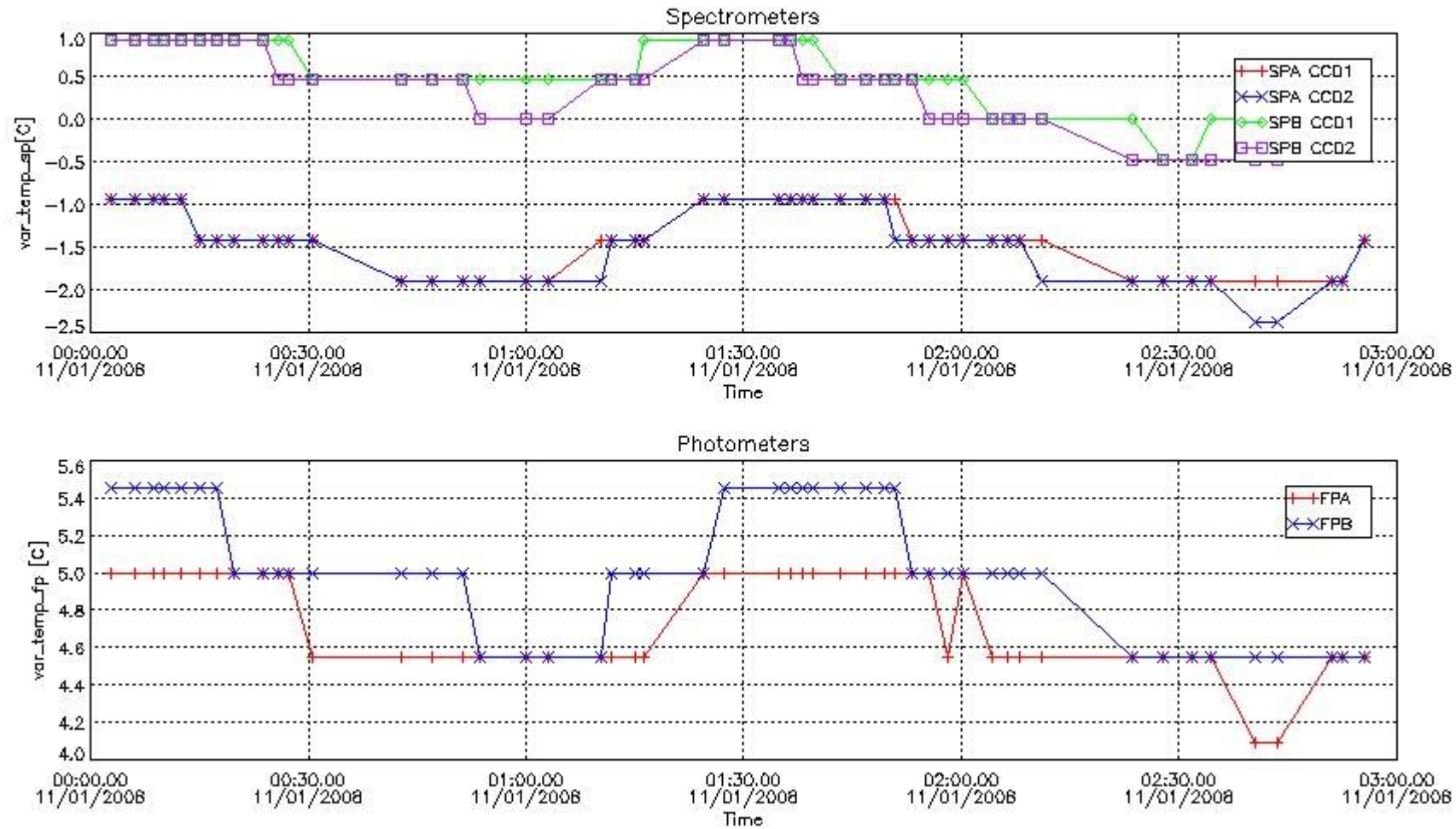
UTC start time	Star name	Star ID	Orbit
11-JAN-2008 01:21:18	GamLup	131	30660
11-JAN-2008 01:22:54	BetLup	109	30660
11-JAN-2008 03:01:54	GamLup	131	30661

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_1PNPDE20080111_000242_000000522065_00045_30660_2335.N1	11-JAN-2008 00:02:42	Dark	51.500	2	Alp Car	-0.73600	7000.0	103	30660	No
2	GOM_TRA_1PNPDE20080111_000608_000000422065_00045_30660_2336.N1	11-JAN-2008 00:06:08	Straylight	42.000	117	Pi Pup	2.7060	3800.0	84	30660	No
3	GOM_TRA_1PNPDE20080111_000846_000000422065_00045_30660_2337.N1	11-JAN-2008 00:08:46	Straylight	42.000	23	21Eps CMa	1.5020	26000.	84	30660	No
4	GOM_TRA_1PNPDE20080111_001013_000000432065_00045_30660_2338.N1	11-JAN-2008 00:10:13	Straylight	42.500	179	24Omi2CMa	3.0320	24000.	85	30660	No
5	GOM_TRA_1PNPDE20080111_001230_000000482065_00045_30660_2339.N1	11-JAN-2008 00:12:30	Straylight	47.500	1	9Alp CMa	-1.4400	11000.	95	30660	No
6	GOM_TRA_1PNPDE20080111_001459_000000402065_00045_30660_2340.N1	11-JAN-2008 00:14:59	Straylight	39.500	56	53Kap Ori	2.0650	30000.	79	30660	No
7	GOM_TRA_1PNPDE20080111_001726_000000422065_00045_30660_2341.N1	11-JAN-2008 00:17:26	Twilight_stray	41.500	30	46Eps Ori	1.6940	30000.	83	30660	No
8	GOM_TRA_1PNPDE20080111_001944_000000522065_00045_30660_2342.N1	11-JAN-2008 00:19:44	Twilight_stray	52.000	14	58Alp Ori	0.87000	3000.0	104	30660	No

9	GOM_TRA_1PNPDE20080111_002341_000000352065_00045_30660_2343.N1	11-JAN-2008 00:23:41	Bright	35.000	176	23Zet Tau	3.0200	22000.	70	30660	No
10	GOM_TRA_1PNPDE20080111_002549_000000362065_00045_30660_2344.N1	11-JAN-2008 00:25:49	Bright	35.500	28	12Bet Tau	1.6500	15200.	71	30660	No
11	GOM_TRA_1PNPDE20080111_002717_000000352065_00045_30660_2345.N1	11-JAN-2008 00:27:17	Bright	35.000	114	3Iot Aur	2.6930	4600.0	70	30660	No
12	GOM_TRA_1PNPDE20080111_003028_000000372065_00045_30660_2346.N1	11-JAN-2008 00:30:28	Bright	37.000	42	34Bet Aur	1.9000	10200.	74	30660	No
13	GOM_TRA_1PNPDE20080111_004256_000000332065_00045_30660_2347.N1	11-JAN-2008 00:42:56	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	30660	No
14	GOM_TRA_1PNPDE20080111_004706_000000392065_00045_30660_2348.N1	11-JAN-2008 00:47:06	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	30660	No
15	GOM_TRA_1PNPDE20080111_005116_000000382065_00045_30660_2349.N1	11-JAN-2008 00:51:16	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	30660	No
16	GOM_TRA_1PNPDE20080111_005340_000000522065_00045_30660_2350.N1	11-JAN-2008 00:53:40	Bright	52.000	130	23Bet Dra	2.7990	5800.0	104	30660	No
17	GOM_TRA_1PNPDE20080111_005955_000000532065_00045_30660_2351.N1	11-JAN-2008 00:59:55	Bright	53.000	133	40Zet Her	2.8070	6000.0	106	30660	No
18	GOM_TRA_1PNPDE20080111_010256_000000532065_00045_30660_2352.N1	11-JAN-2008 01:02:56	Bright	53.000	127	27Bet Her	2.7810	4700.0	106	30660	No
19	GOM_TRA_1PNPDE20080111_011022_000000542065_00045_30660_2353.N1	11-JAN-2008 01:10:22	Bright	54.000	120	1Del Oph	2.7340	3200.0	108	30660	No
20	GOM_TRA_1PNPDE20080111_011149_000000362065_00045_30660_2354.N1	11-JAN-2008 01:11:49	Bright	35.500	98	13Zet Oph	2.5710	30000.	71	30660	No
21	GOM_TRA_1PNPDE20080111_011459_000000412065_00045_30660_2468.N1	11-JAN-2008 01:14:59	Twilight	40.500	97	8Bet1Sco	2.5610	30000.	81	30660	No
22	GOM_TRA_1PNPDE20080111_011615_000000472065_00045_30660_2469.N1	11-JAN-2008 01:16:15	Twilight	46.500	16	21Alp Sco	1.0200	3000.0	93	30660	No
23	GOM_TRA_1PNPDE20080111_012426_000000402065_00045_30660_2470.N1	11-JAN-2008 01:24:26	Dark	39.500	78	Alp Lup	2.3040	28000.	79	30660	No
24	GOM_TRA_1PNPDE20080111_012715_000000432065_00046_30661_2471.N1	11-JAN-2008 01:27:15	Dark	42.500	4	Alp1Cen	-0.010000	5800.0	85	30661	No
25	GOM_TRA_1PNPDE20080111_013448_000000382065_00046_30661_2472.N1	11-JAN-2008 01:34:48	Dark	38.000	124	The Car	2.7640	30000.	76	30661	No
26	GOM_TRA_1PNPDE20080111_013622_000000372065_00046_30661_2473.N1	11-JAN-2008 01:36:22	Dark	37.000	29	Bet Car	1.6720	10200.	74	30661	No
27	GOM_TRA_1PNPDE20080111_013807_000000382065_00046_30661_2474.N1	11-JAN-2008 01:38:07	Dark	37.500	71	Iot Car	2.2460	7700.0	75	30661	No
28	GOM_TRA_1PNPDE20080111_013929_000000462065_00046_30661_2475.N1	11-JAN-2008 01:39:29	Dark	45.500	41	Eps Car	1.8600	4100.0	91	30661	No
29	GOM_TRA_1PNPDE20080111_014318_000000432065_00046_30661_2476.N1	11-JAN-2008 01:43:18	Dark	42.500	2	Alp Car	-0.73600	7000.0	85	30661	No
30	GOM_TRA_1PNPDE20080111_014645_000000462065_00046_30661_2477.N1	11-JAN-2008 01:46:45	Straylight	45.500	117	Pi Pup	2.7060	3800.0	91	30661	No
31	GOM_TRA_1PNPDE20080111_014922_000000442065_00046_30661_2478.N1	11-JAN-2008 01:49:22	Straylight	44.000	23	21Eps CMa	1.5020	26000.	88	30661	No
32	GOM_TRA_1PNPDE20080111_015049_000000412065_00046_30661_2479.N1	11-JAN-2008 01:50:49	Straylight	41.000	179	24Omi2CMa	3.0320	24000.	82	30661	No
33	GOM_TRA_1PNPDE20080111_015306_000000552065_00046_30661_2480.N1	11-JAN-2008 01:53:06	Straylight	55.000	1	9Alp CMa	-1.4400	11000.	110	30661	No
34	GOM_TRA_1PNPDE20080111_015535_000000412065_00046_30661_2481.N1	11-JAN-2008 01:55:35	Straylight	41.000	56	53Kap Ori	2.0650	30000.	82	30661	No
35	GOM_TRA_1PNPDE20080111_015802_000000442065_00046_30661_2482.N1	11-JAN-2008 01:58:02	Twilight	43.500	30	46Eps Ori	1.6940	30000.	87	30661	No
36	GOM_TRA_1PNPDE20080111_020020_000000522065_00046_30661_2483.N1	11-JAN-2008 02:00:20	Twilight	52.000	14	58Alp Ori	0.87000	3000.0	104	30661	No
37	GOM_TRA_1PNPDE20080111_020417_000000362065_00046_30661_2484.N1	11-JAN-2008 02:04:17	Bright	35.500	176	23Zet Tau	3.0200	22000.	71	30661	No
38	GOM_TRA_1PNPDE20080111_020625_000000382065_00046_30661_2485.N1	11-JAN-2008 02:06:25	Bright	38.000	28	12Bet Tau	1.6500	15200.	76	30661	No
39	GOM_TRA_1PNPDE20080111_020753_000000372065_00046_30661_2486.N1	11-JAN-2008 02:07:53	Bright	37.000	114	3Iot Aur	2.6930	4600.0	74	30661	No
40	GOM_TRA_1PNPDE20080111_021104_000000382065_00046_30661_2487.N1	11-JAN-2008 02:11:04	Bright	37.500	42	34Bet Aur	1.9000	10200.	75	30661	No
41	GOM_TRA_1PNPDE20080111_022332_000000362065_00046_30661_2488.N1	11-JAN-2008 02:23:32	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	30661	No
42	GOM_TRA_1PNPDE20080111_022741_000000372065_00046_30661_2489.N1	11-JAN-2008 02:27:41	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	30661	No
43	GOM_TRA_1PNPDE20080111_023152_000000362065_00046_30661_2628.N1	11-JAN-2008 02:31:52	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	30661	No
44	GOM_TRA_1PNPDE20080111_023416_000000352065_00046_30661_2629.N1	11-JAN-2008 02:34:16	Bright	35.000	130	23Bet Dra	2.7990	5800.0	70	30661	No
45	GOM_TRA_1PNPDE20080111_024031_000000532065_00046_30661_2630.N1	11-JAN-2008 02:40:31	Bright	53.000	133	40Zet Her	2.8070	6000.0	106	30661	No
46	GOM_TRA_1PNPDE20080111_024332_000000352065_00046_30661_2631.N1	11-JAN-2008 02:43:32	Bright	34.500	127	27Bet Her	2.7810	4700.0	69	30661	No
47	GOM_TRA_1PNPDE20080111_025058_000000542065_00046_30661_2632.N1	11-JAN-2008 02:50:58	Bright	54.000	120	1Del Oph	2.7340	3200.0	108	30661	No
48	GOM_TRA_1PNPDE20080111_025225_000000362065_00046_30661_2633.N1	11-JAN-2008 02:52:25	Bright	35.500	98	13Zet Oph	2.5710	30000.	71	30661	No
49	GOM_TRA_1PNPDE20080111_025535_000000402065_00046_30661_2634.N1	11-JAN-2008 02:55:35	Twilight	39.500	97	8Bet1Sco	2.5610	30000.	79	30661	No

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



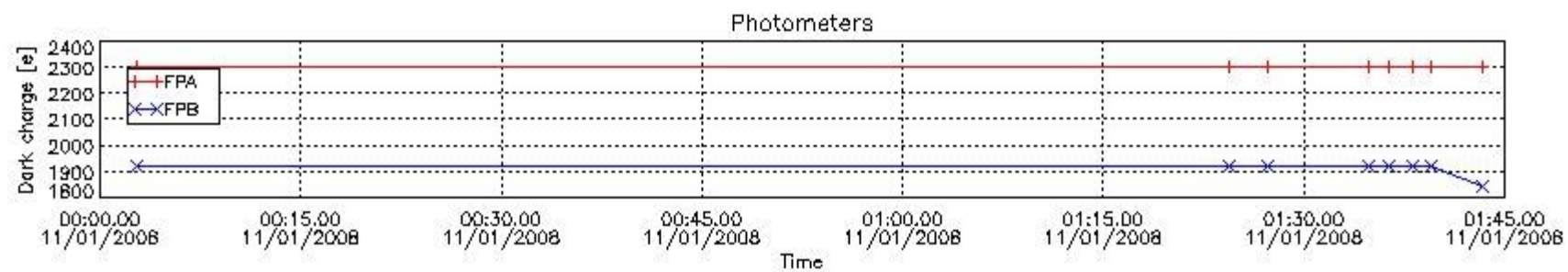
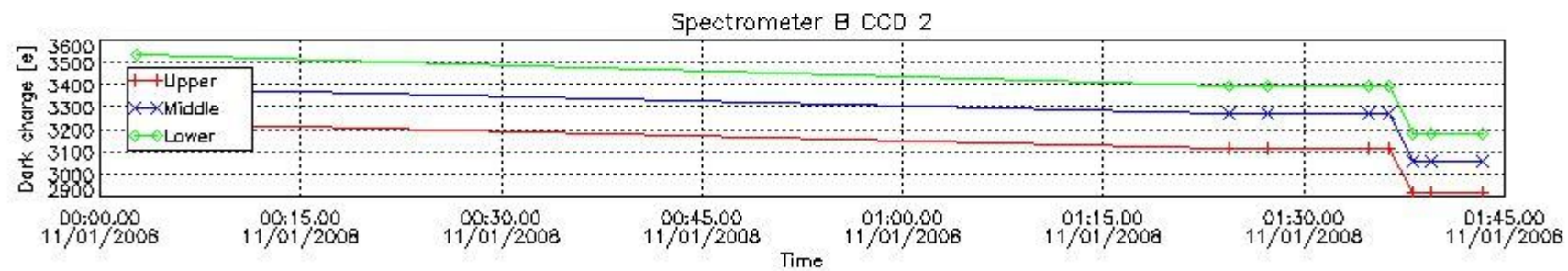
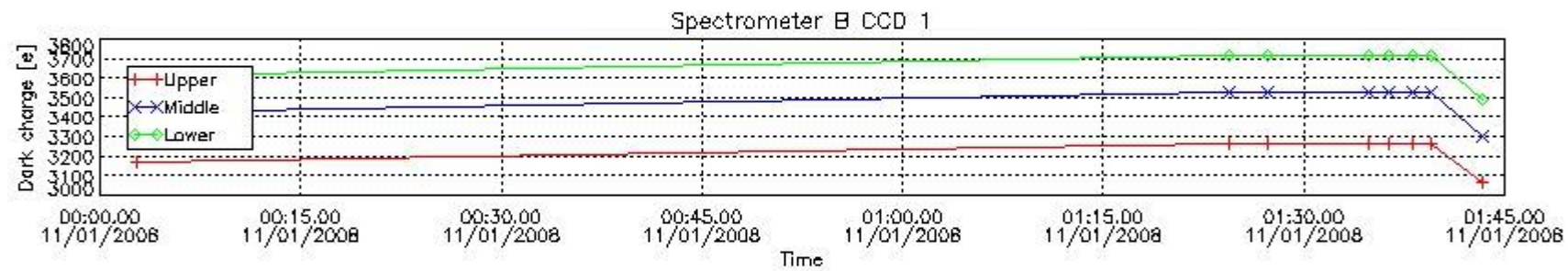
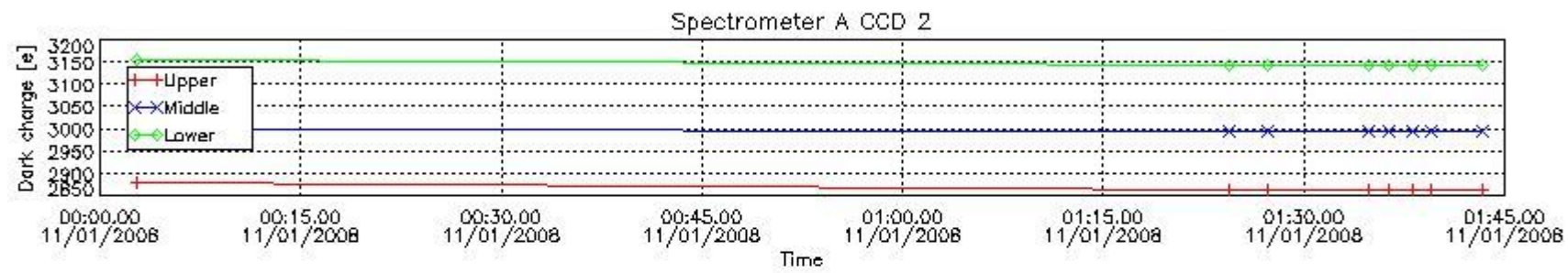
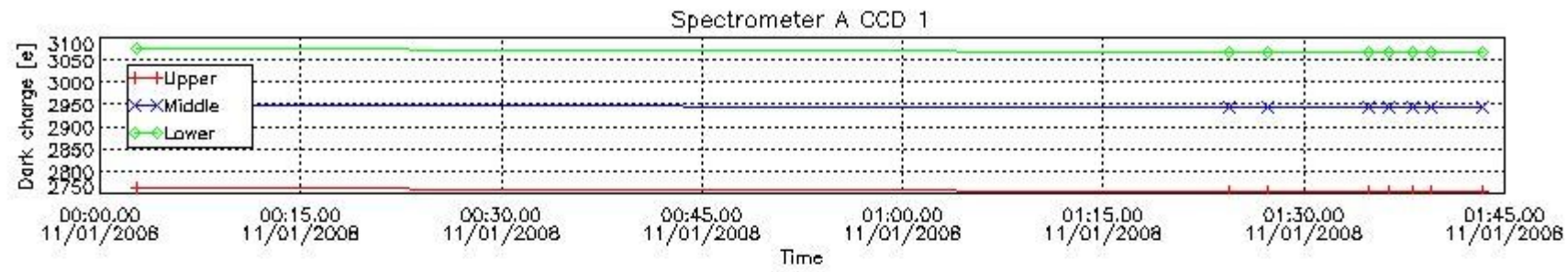
4. Overview of dark signal processing per product

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



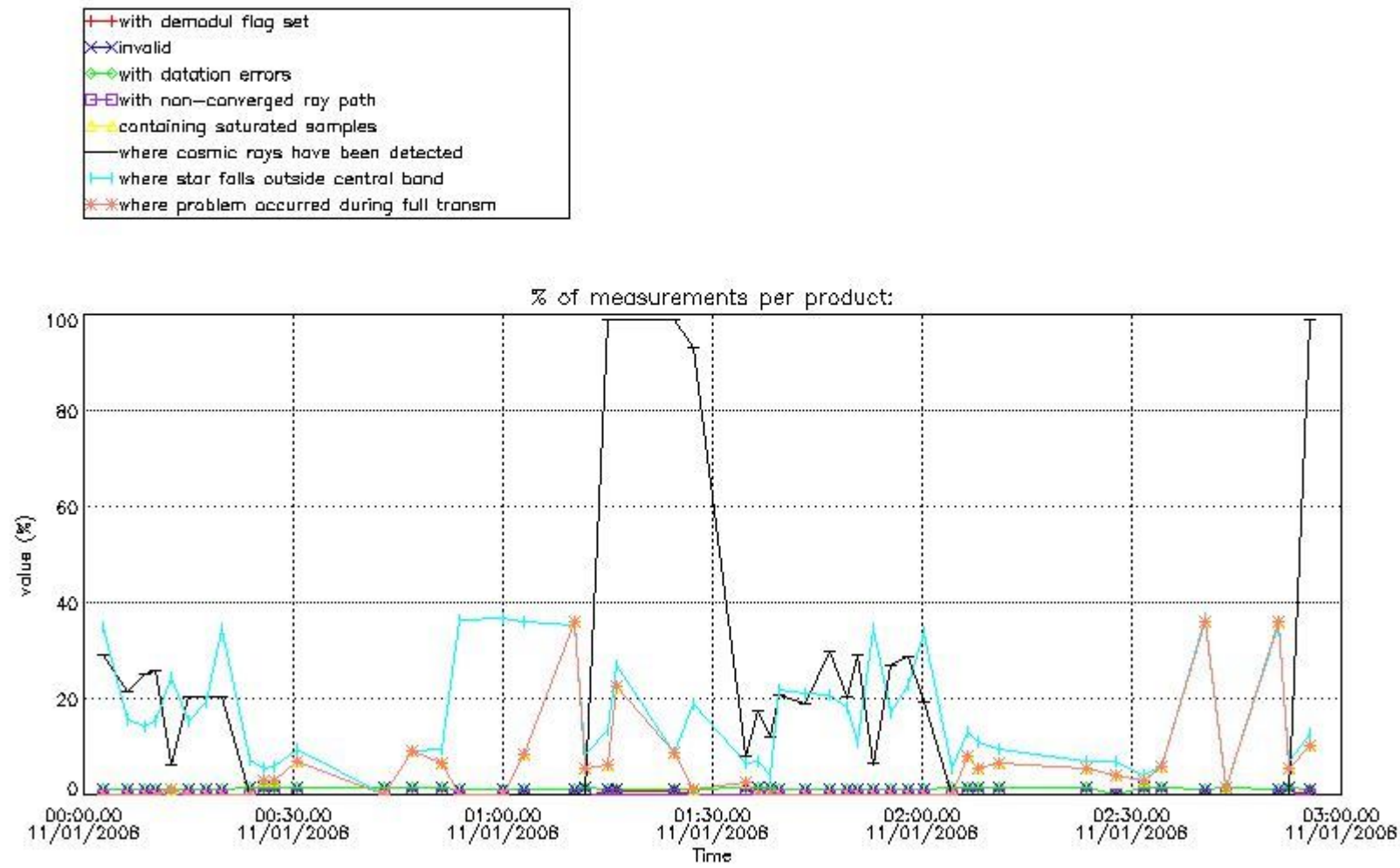
5. Demodulation flag and quality information monitoring

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.

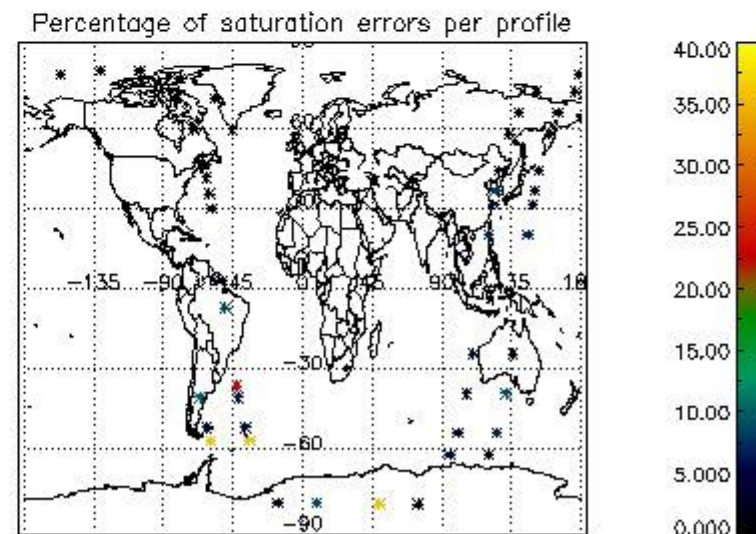
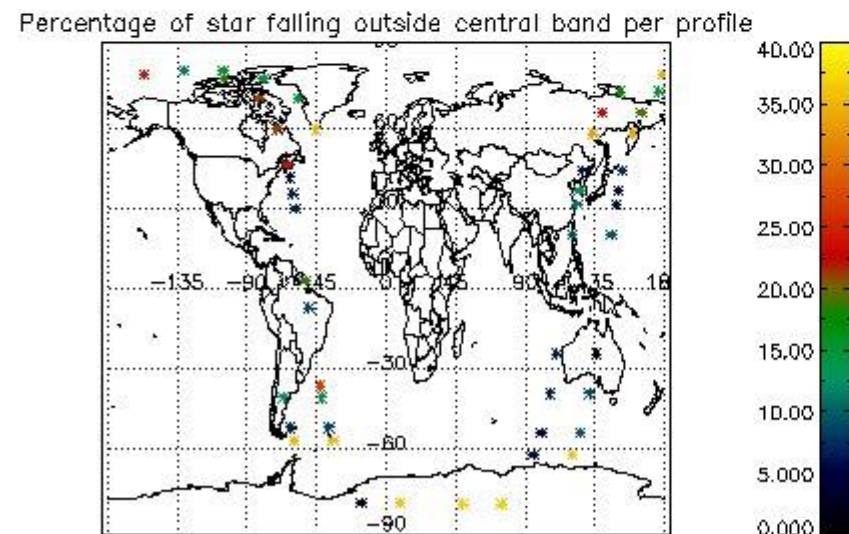
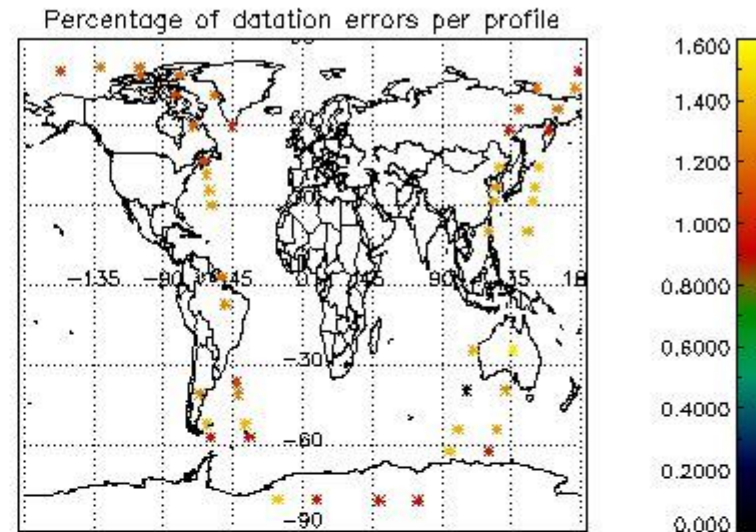
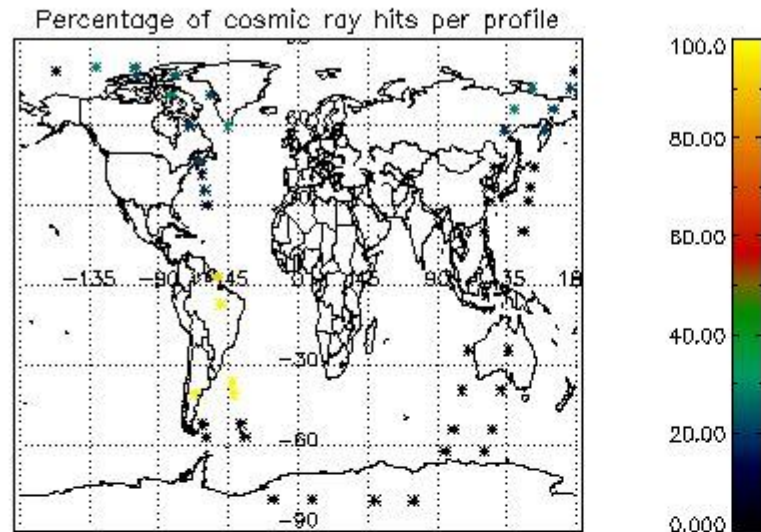
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	26.5306 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



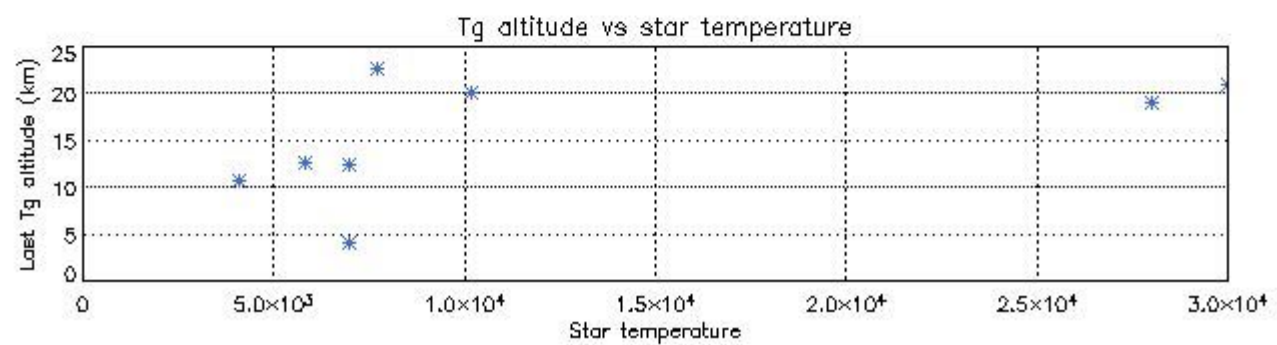
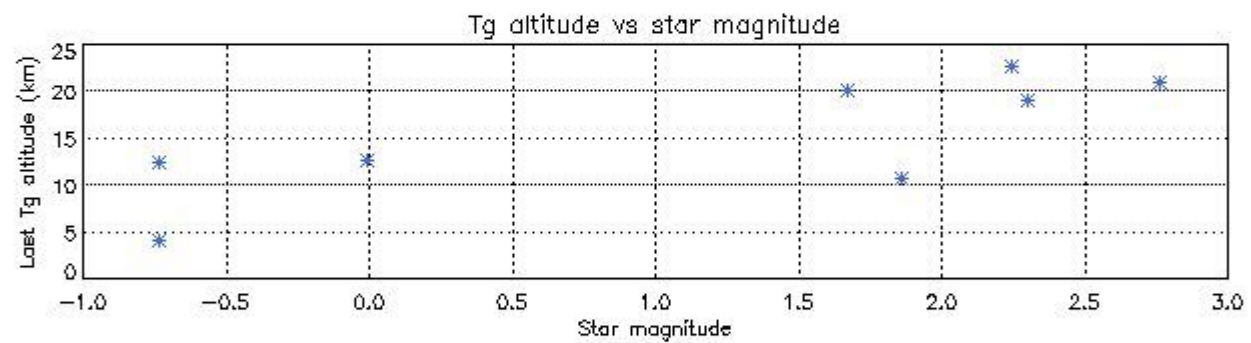
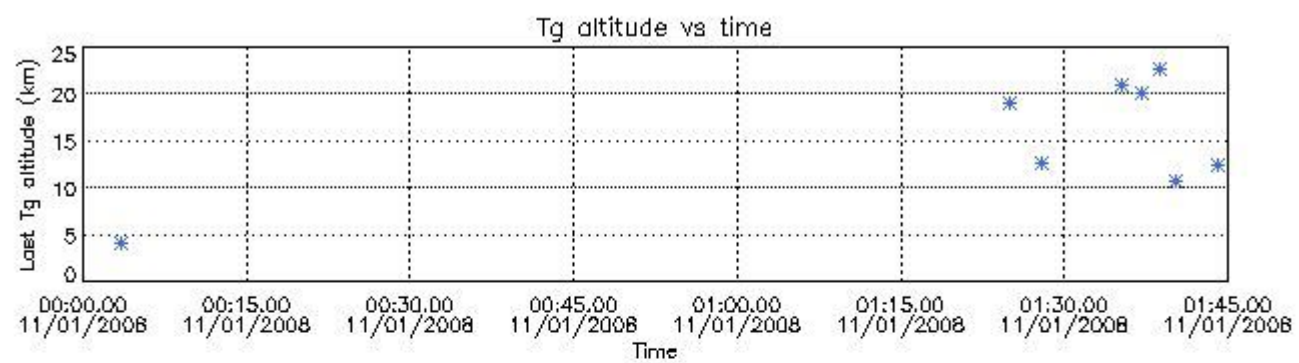
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.293	16.591	NaN
St. deviation:	6.3538	7.7335	NaN
Maximum:	22.577	27.996	NaN
Minimum:	4.1344	3.4054	NaN
Number of data:	8.0000	24.000	NaN

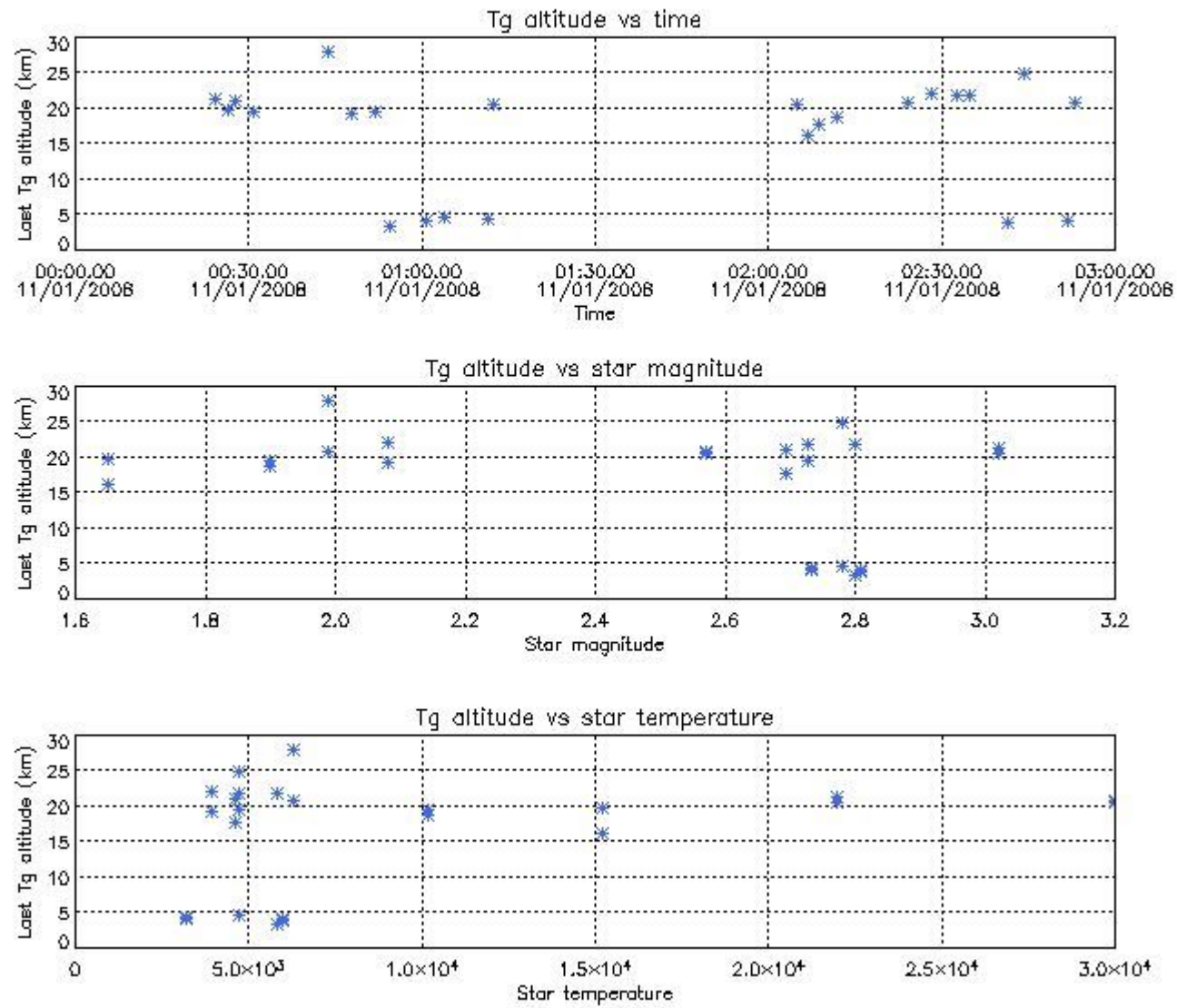
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

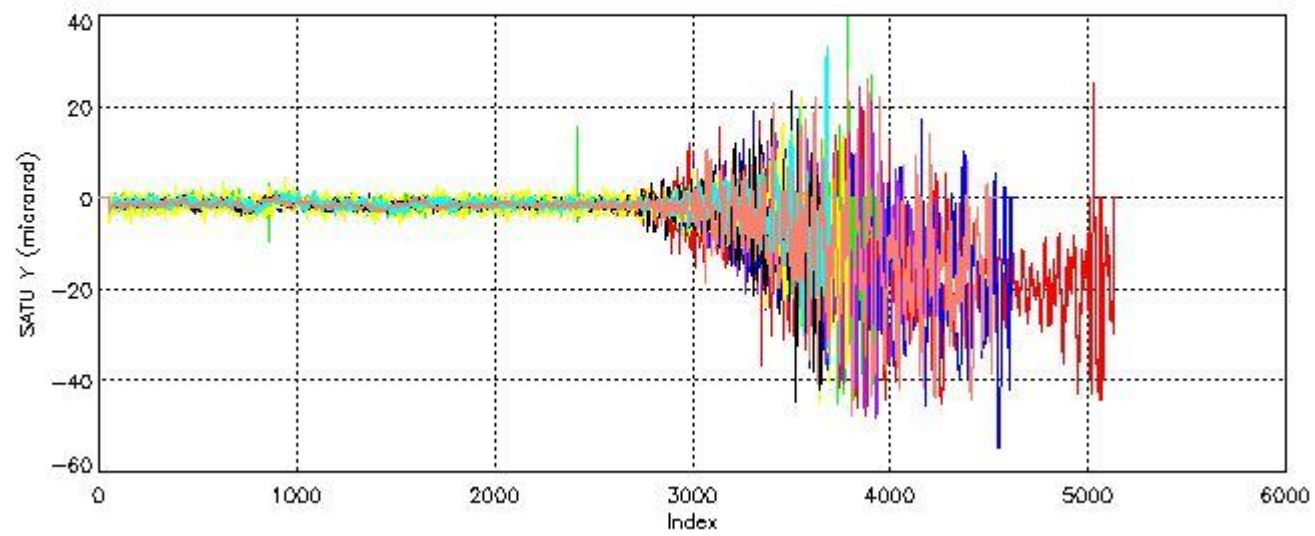
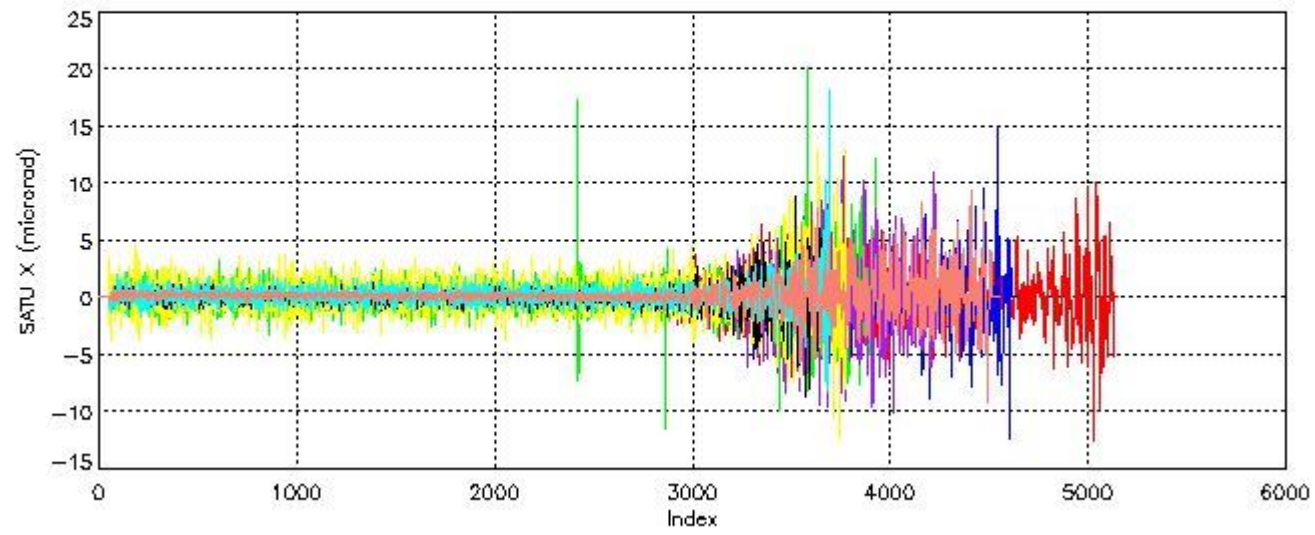


7. Star Acquisition and Tracking Unit (SATU)

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:	0.11608	-1.3366	0.021146	-1.2572
St. deviation:	0.45085	0.81463	0.71387	1.0142
Maximum:	4.6000	3.5000	4.6000	4.5000
Minimum:	-3.8000	-9.5000	-5.0000	-8.3000

Number of data:	7050.0	7050.0	19550.	19550.
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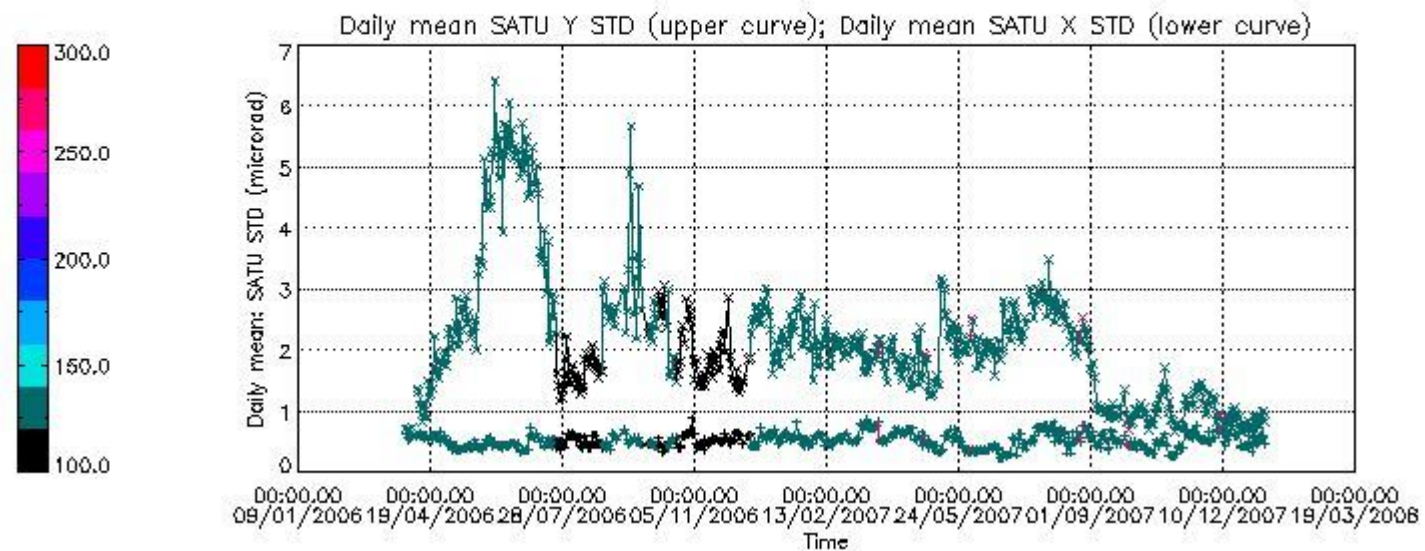
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

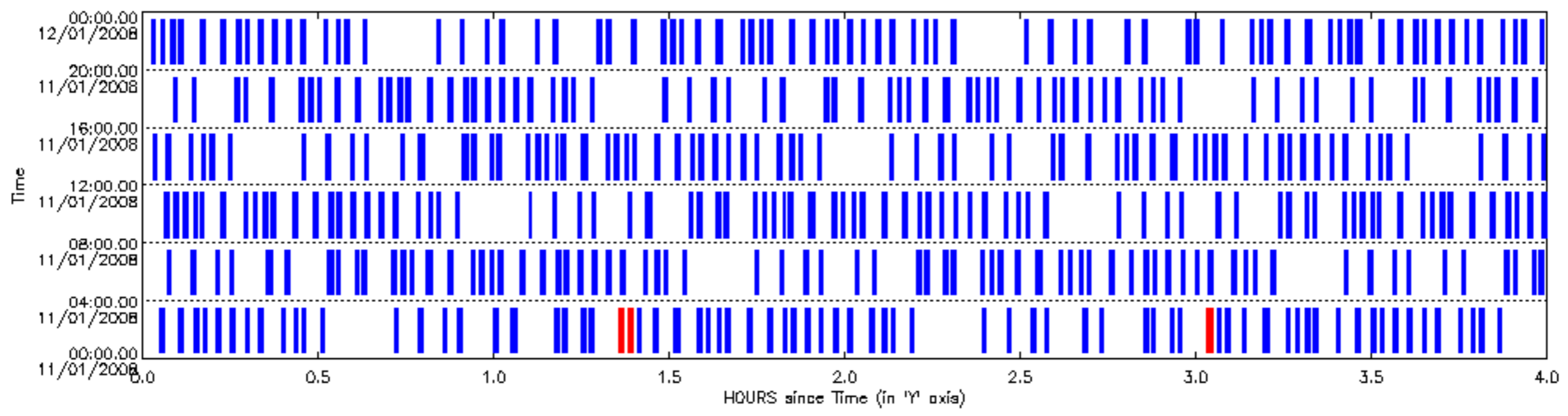
Lower curve: STD of SATU X axis

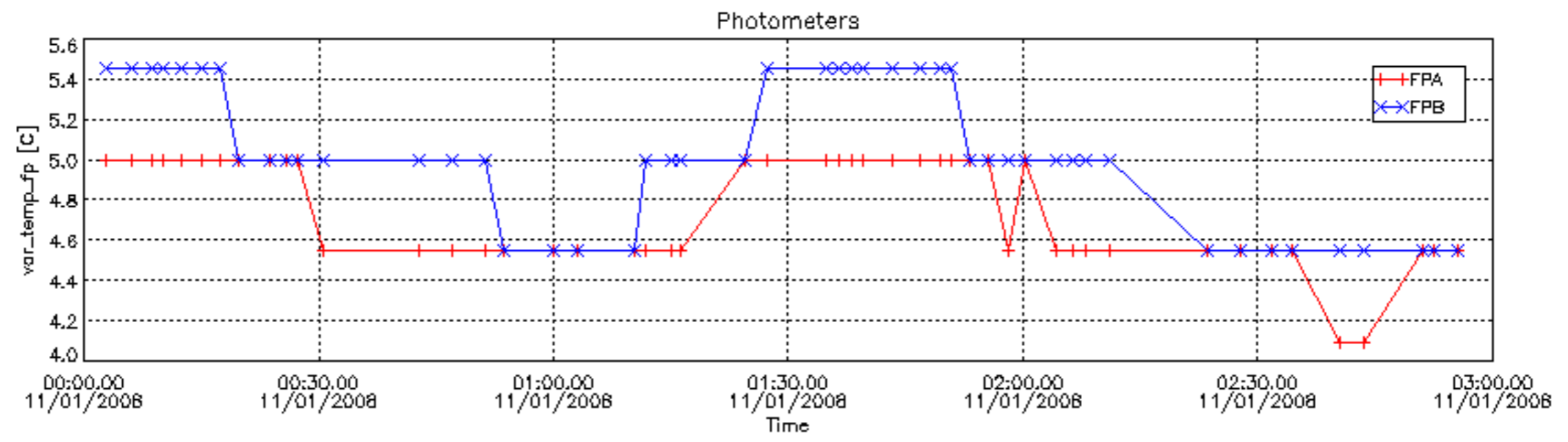
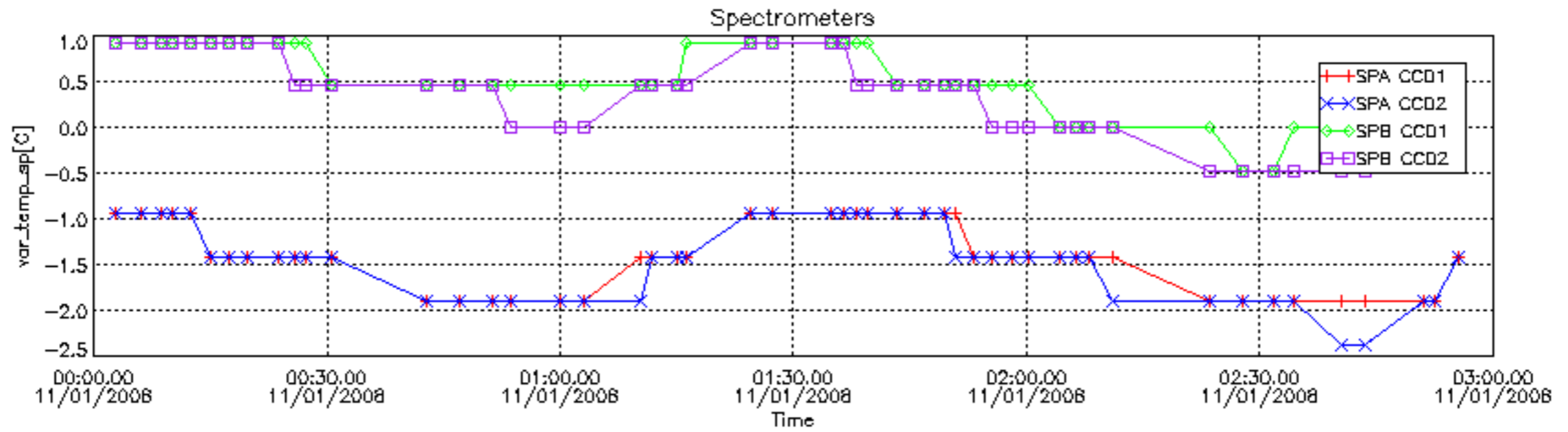


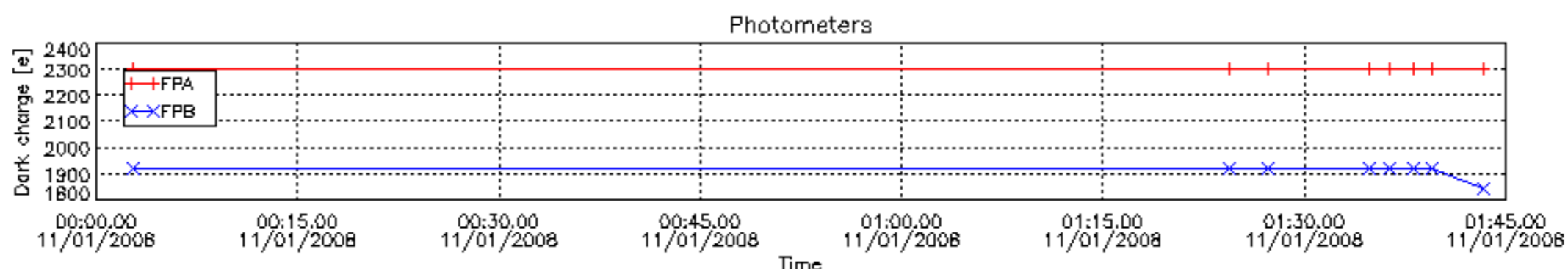
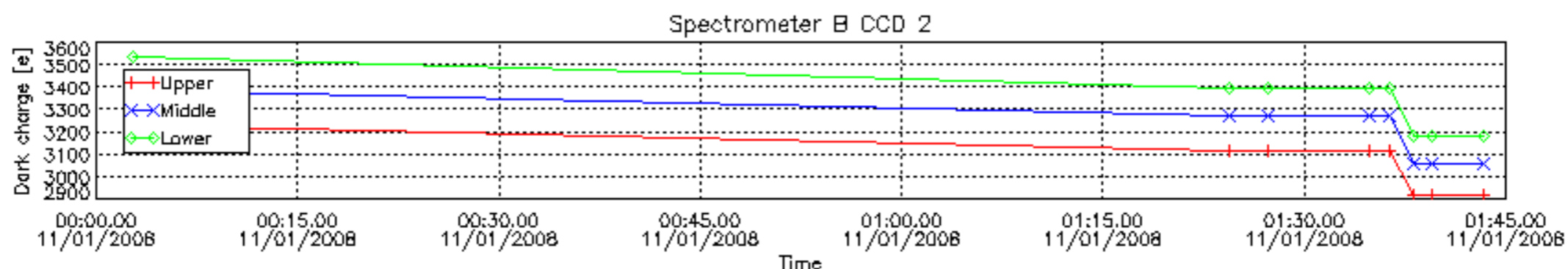
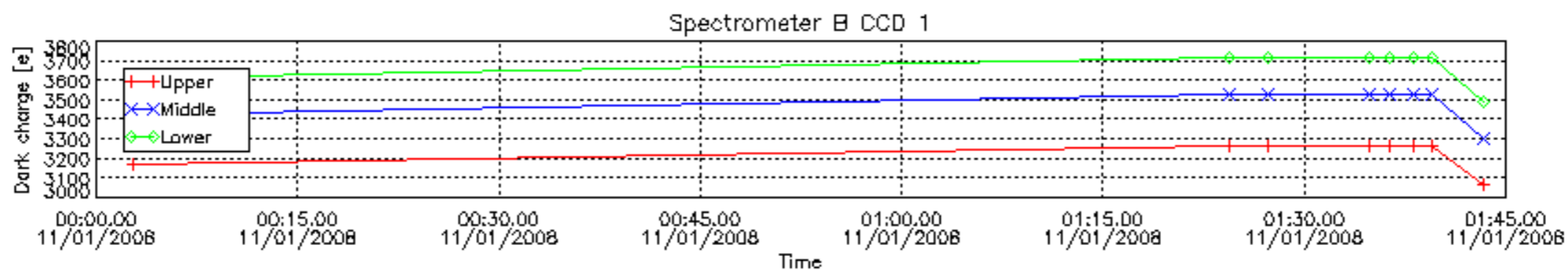
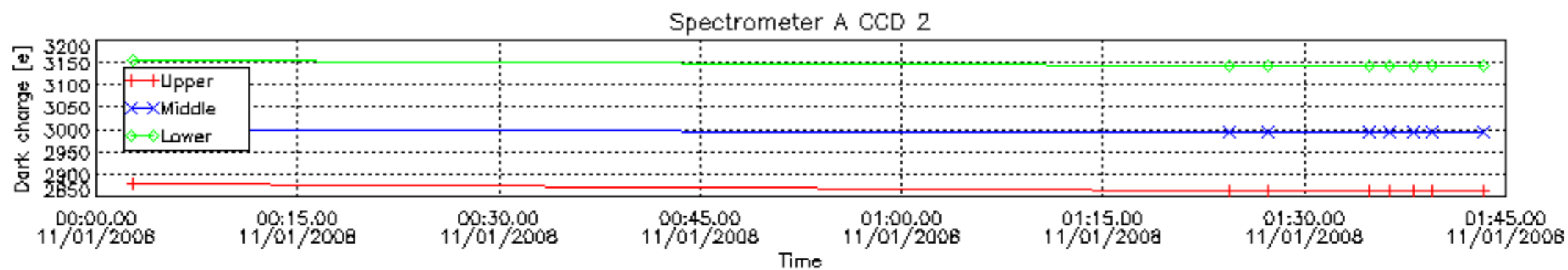
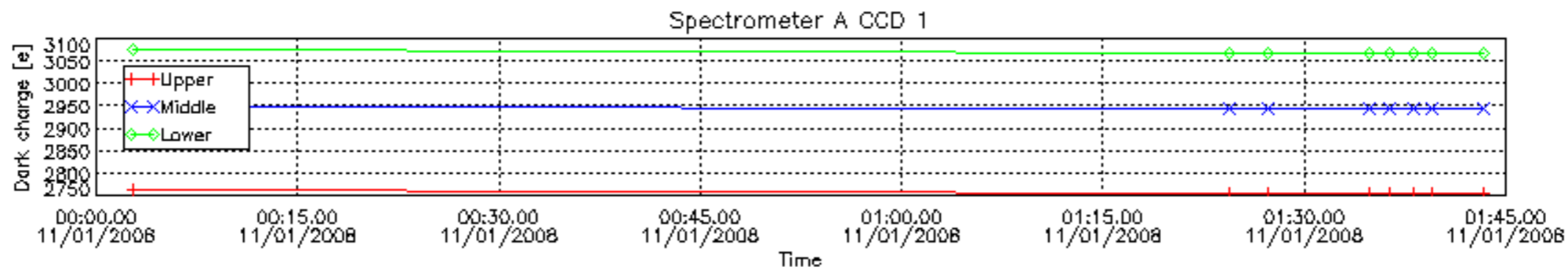
8. Auxiliary Data Files used for the production reported in section 2.4

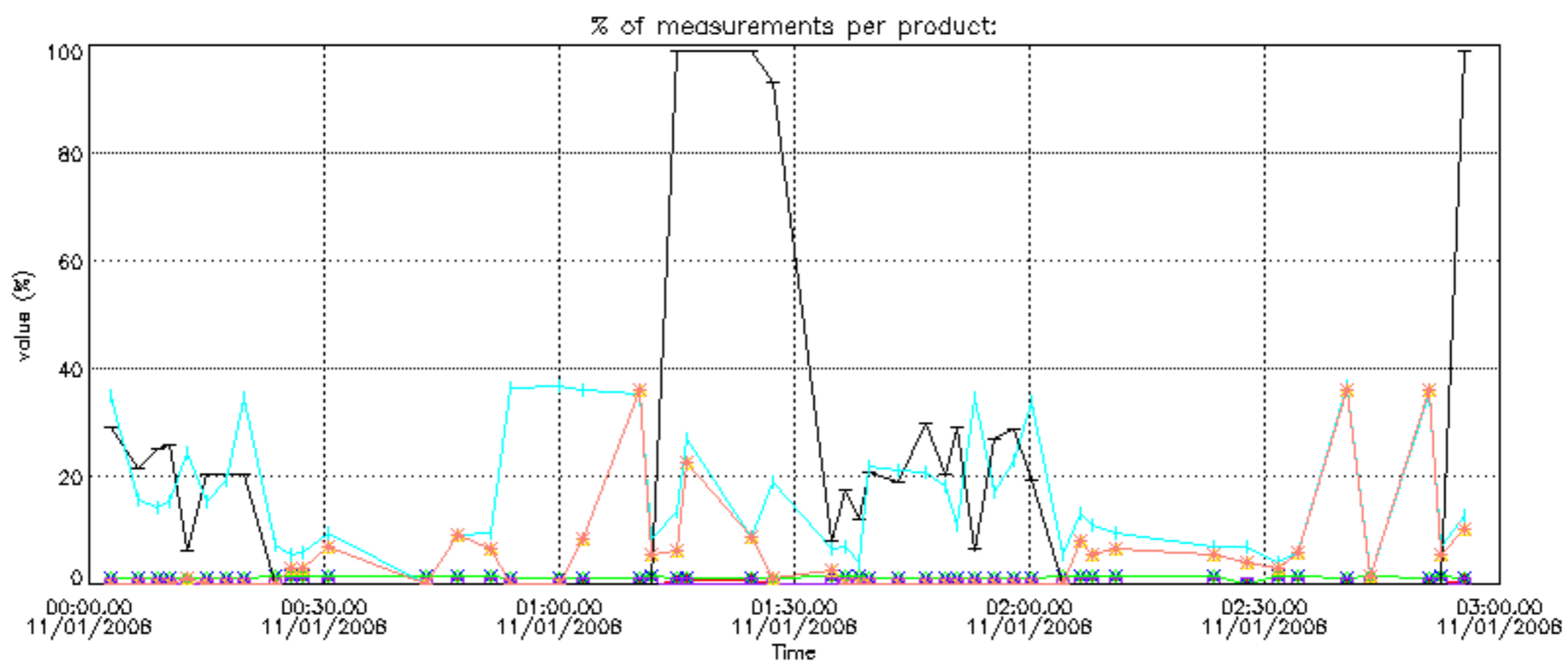
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	11-JAN-2008 00:02:42
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080109_125406_20080107_000000_20100101_000000	1	11-JAN-2008 00:02:42
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	11-JAN-2008 00:02:42
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	11-JAN-2008 00:02:42
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	11-JAN-2008 00:02:42
ECMWF_FILE	AUX_ECF_AXNECM20080110_073111_20080110_210000_20080111_090000	1	11-JAN-2008 00:02:42
OPTIONAL_ECMWF_FILE	MISSING	1	11-JAN-2008 00:02:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080110_215021_000057382065_00043_30658_4925.N1	1	11-JAN-2008 00:02:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080110_233118_000057382065_00044_30659_4926.N1	21	11-JAN-2008 01:14:59
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080111_011215_000041442065_00045_30660_4927.N1	43	11-JAN-2008 02:31:52

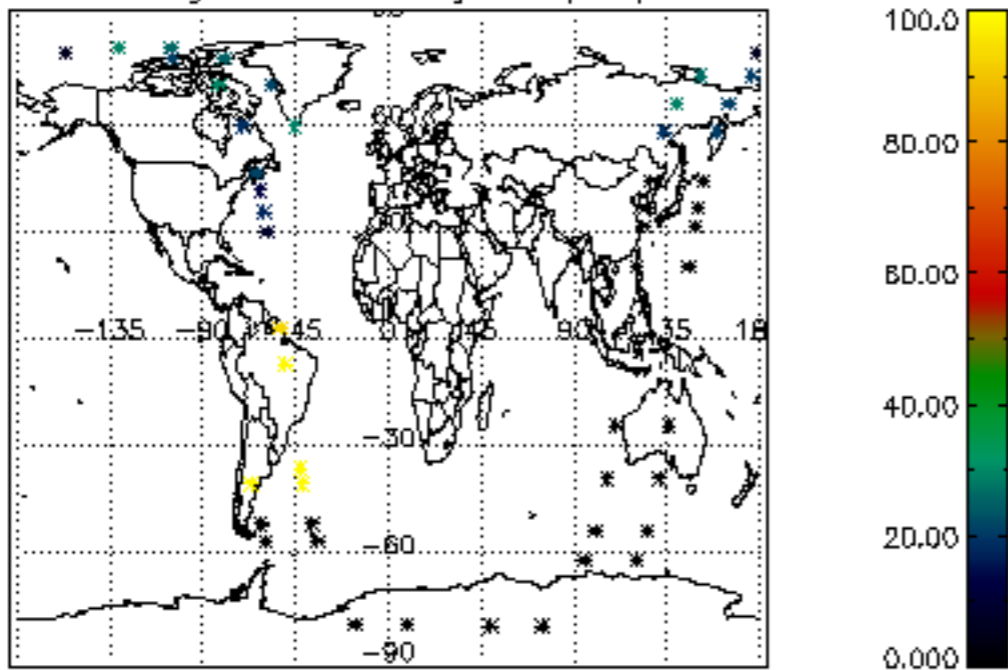




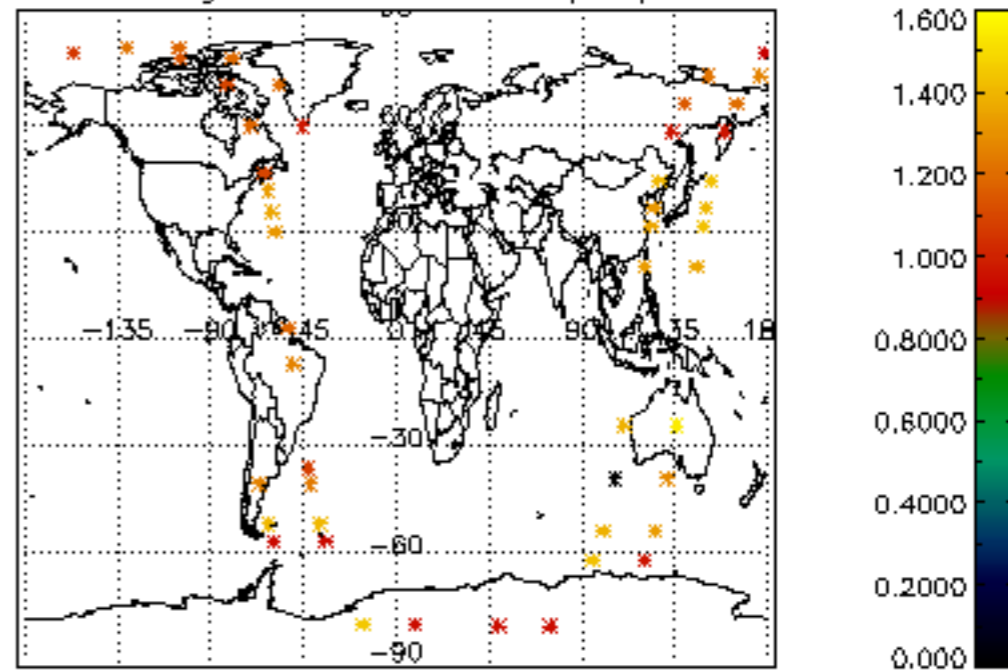




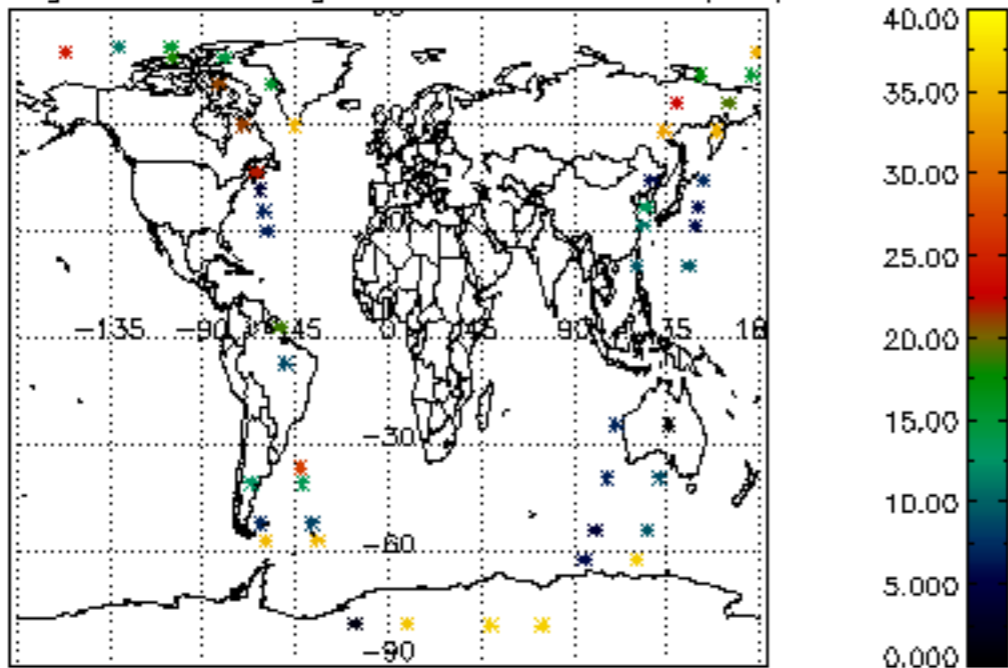
Percentage of cosmic ray hits per profile



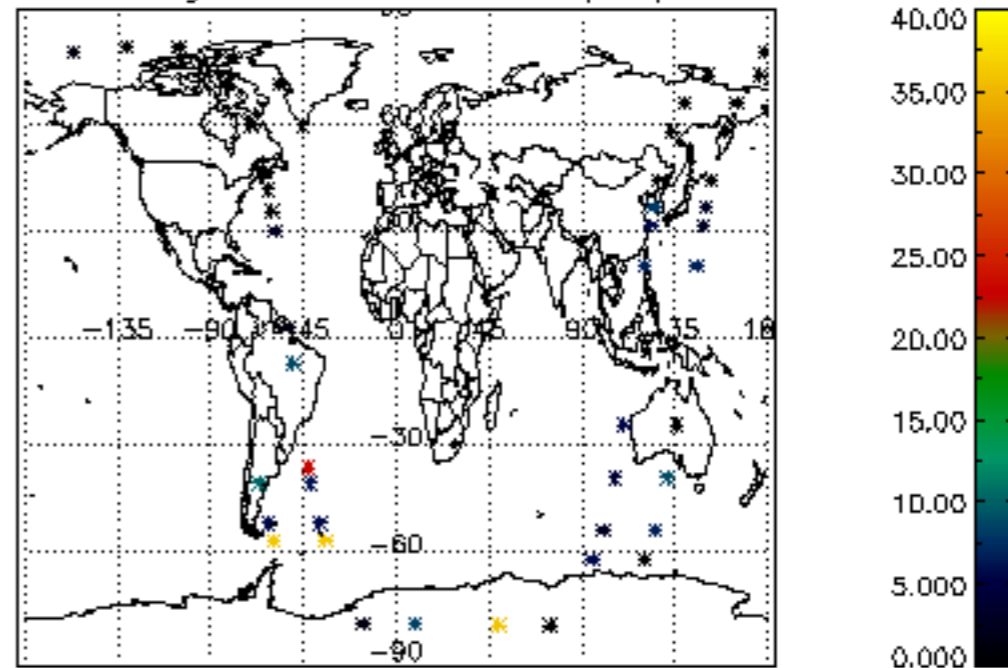
Percentage of datation errors per profile



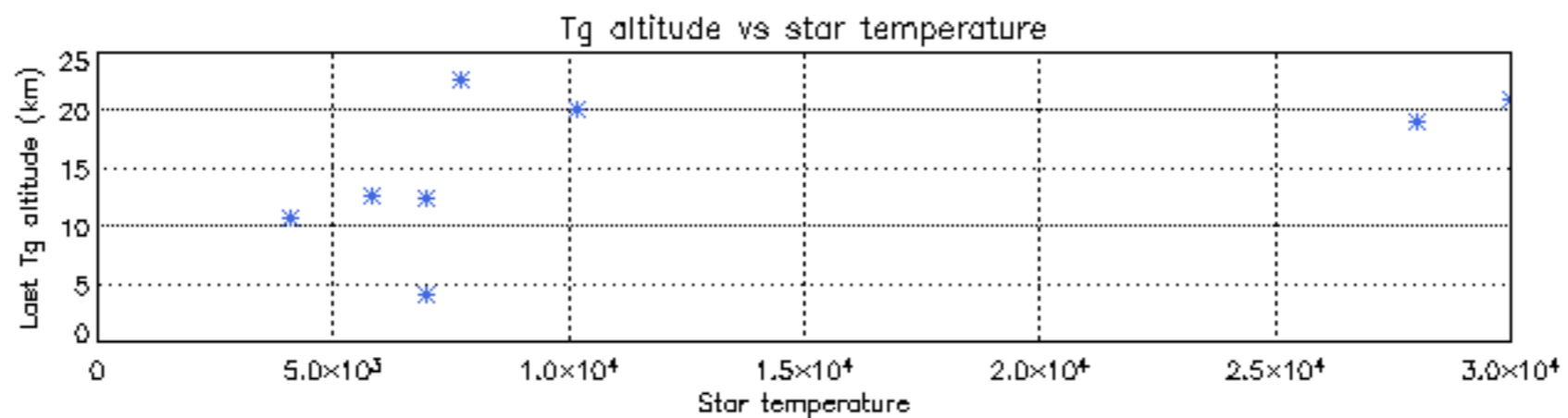
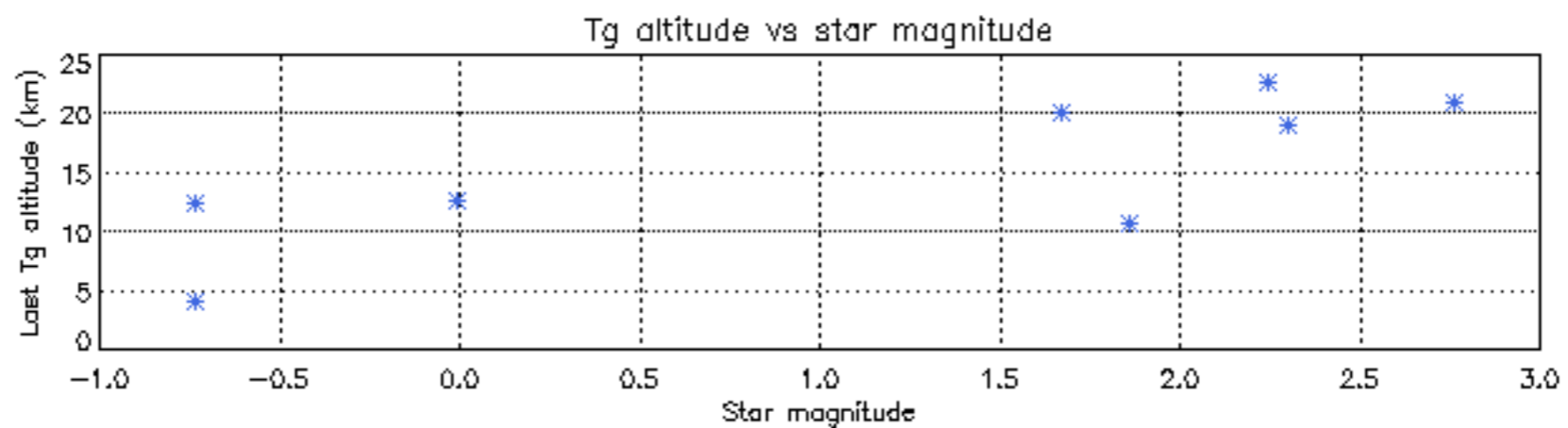
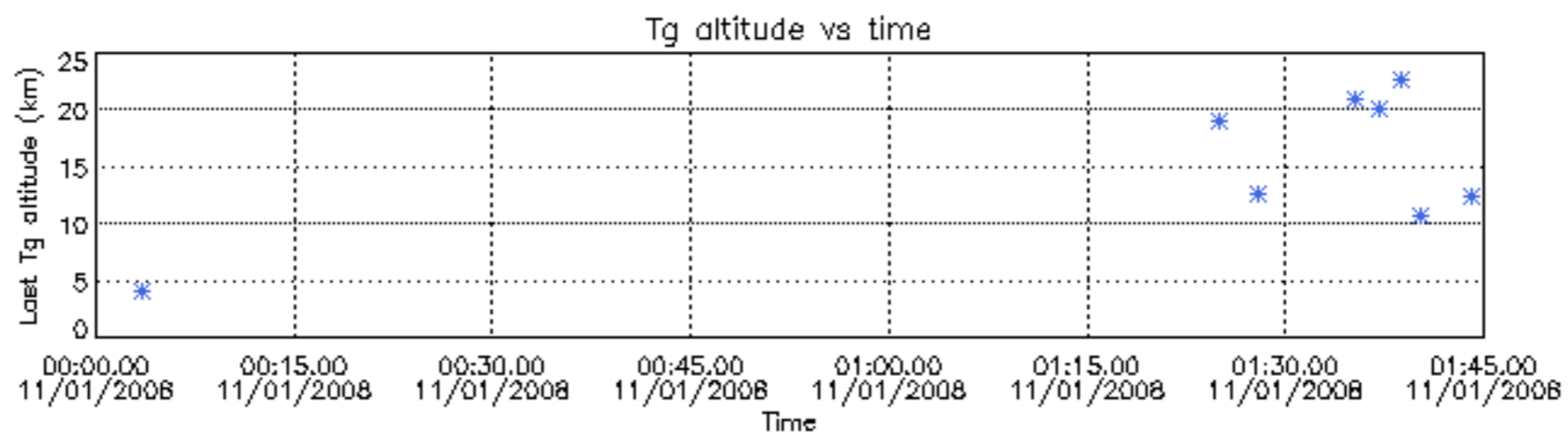
Percentage of star falling outside central band per profile



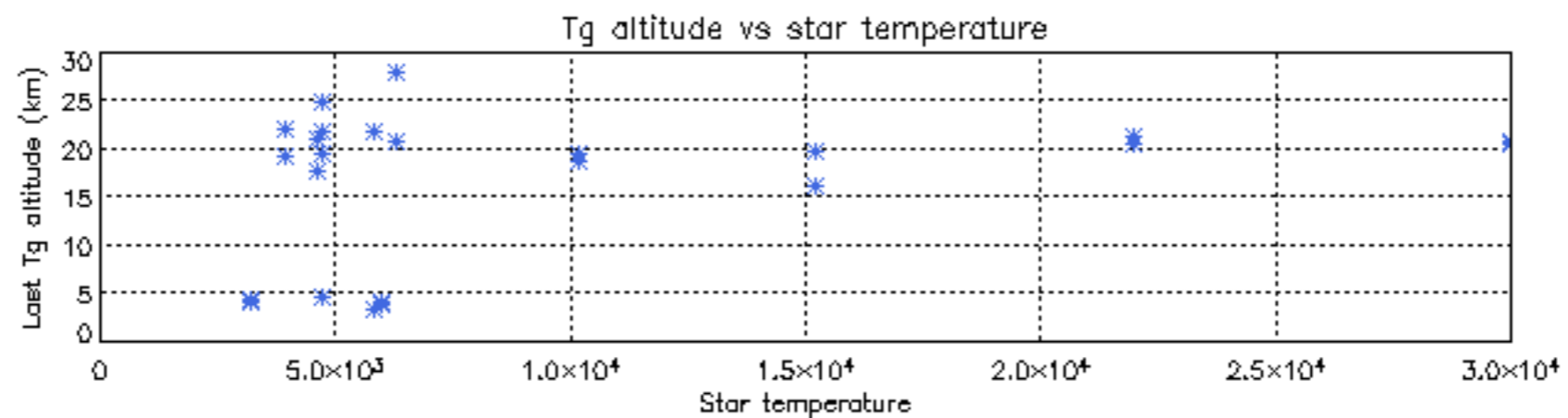
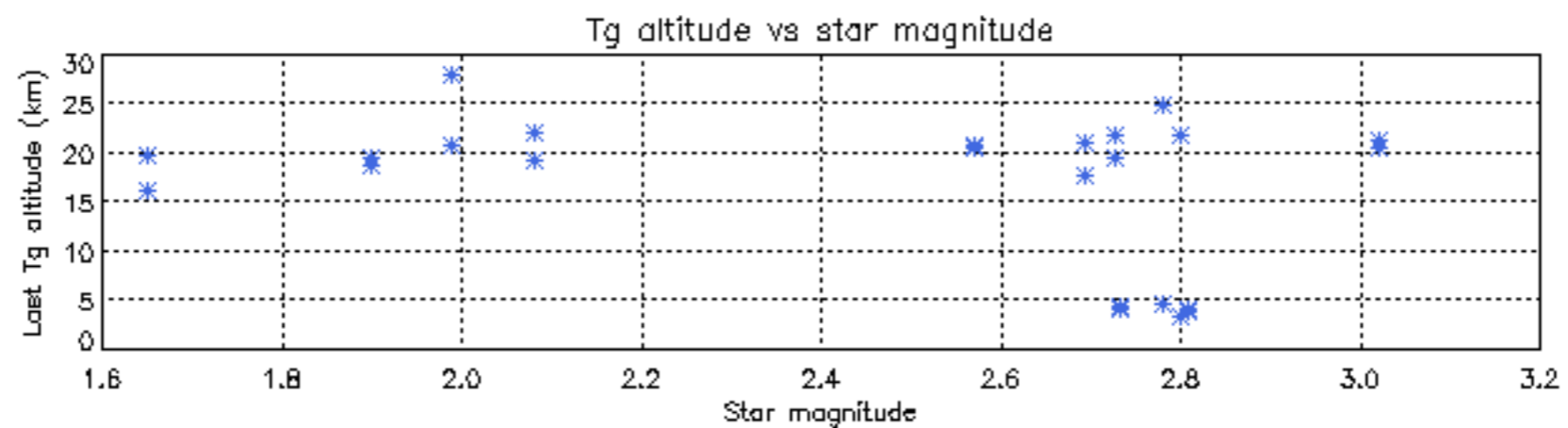
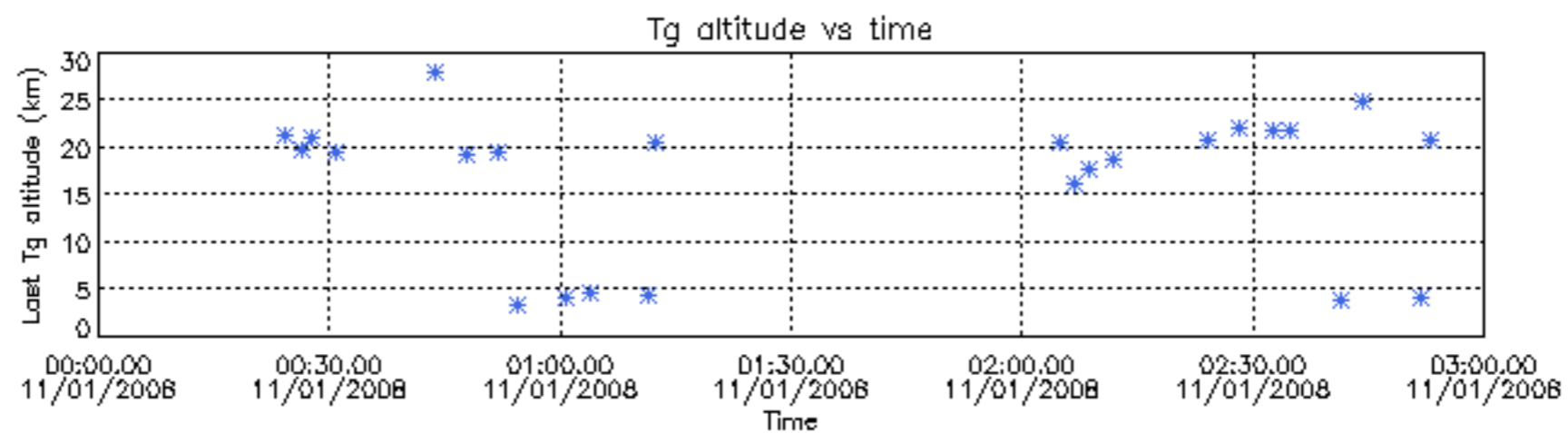
Percentage of saturation errors per profile

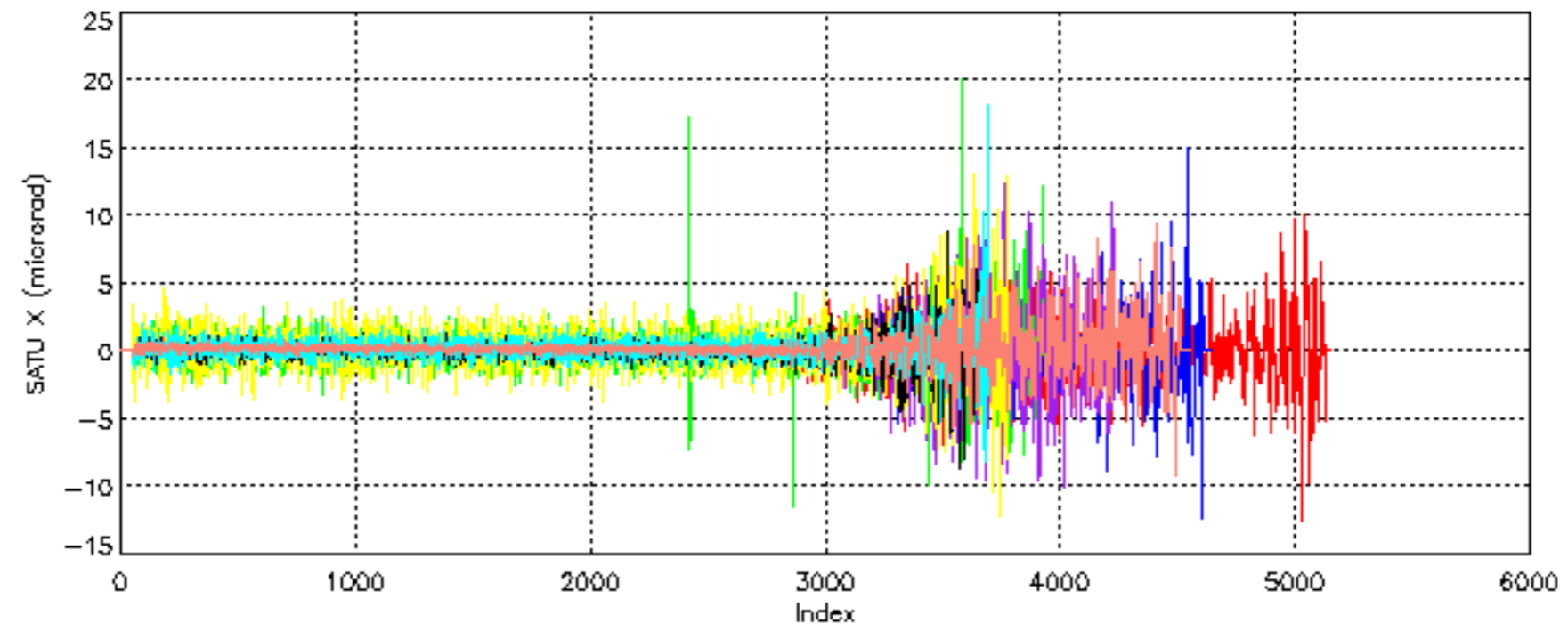


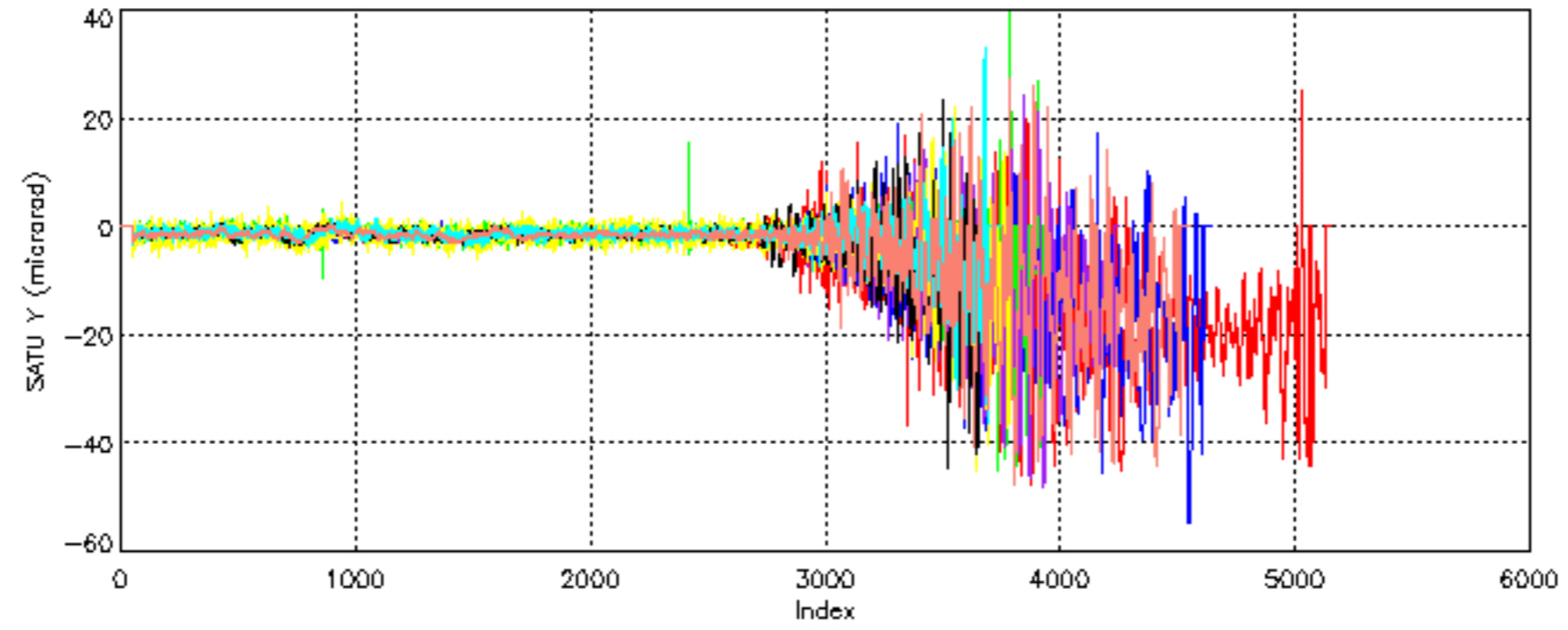
Tangent altitude at which the star is lost

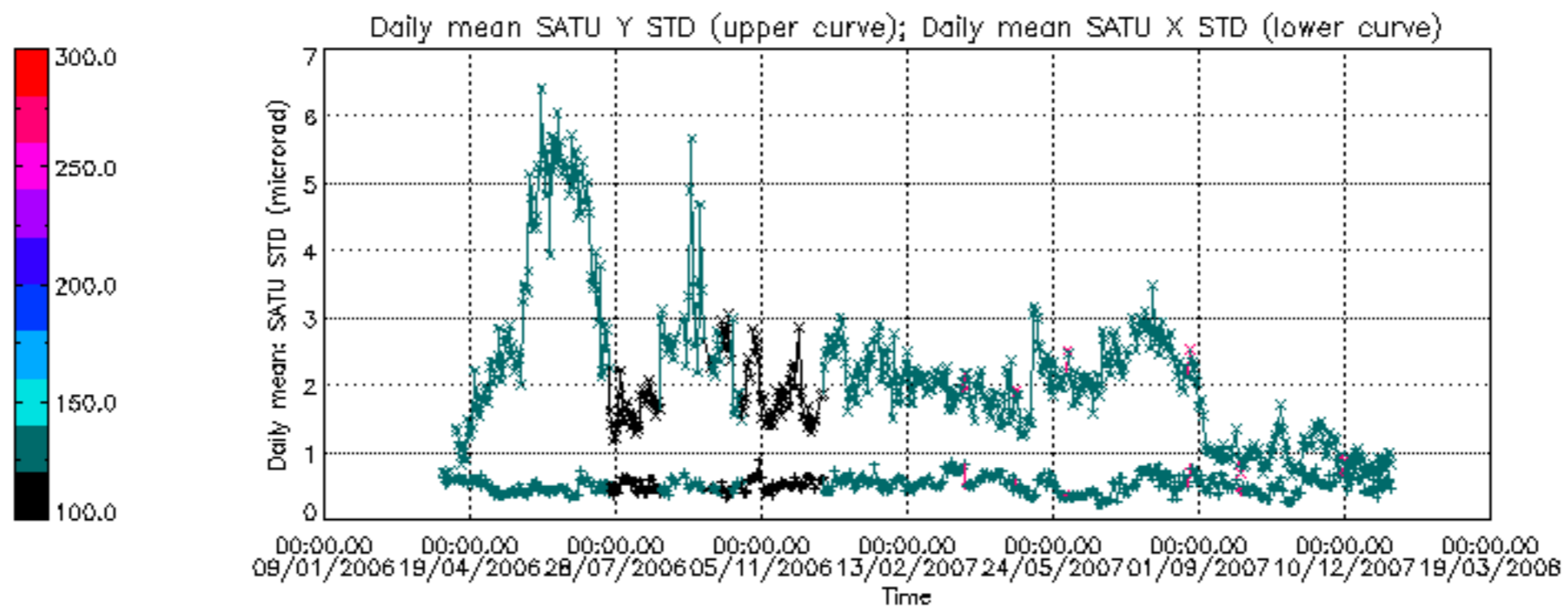


Tangent altitude at which the star is lost









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1; -686.3; 01-JAN-2008 01:29:23; Dark ; 45.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 90; 0;30517
 2; -107.2; 01-JAN-2008 01:39:02; Dark ; 41.0; 95; Zet Cen ; 2.55; 26000;occ; 82; 0;30517
 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
 11; 1568.7; 01-JAN-2008 02:06:58; Dark ; 45.0; 47; 2Bet CMA ; 1.98; 28000;occ; 90; 0;30518
 12; 1769.0; 01-JAN-2008 02:10:18; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;30518
 13; 1881.1; 01-JAN-2008 02:12:10; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;30518
 14; 2033.3; 01-JAN-2008 02:14:42; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;30518
 15; 2200.2; 01-JAN-2008 02:17:29; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;30518
 16; 2398.1; 01-JAN-2008 02:20:47; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30518
 17; 2472.5; 01-JAN-2008 02:22:02; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30518
 18; 2611.4; 01-JAN-2008 02:24:20; Bright; 35.5; 149; 45Eps Per ; 2.89; 30000;occ; 71; 0;30518
 19; 2693.4; 01-JAN-2008 02:25:42; Bright; 42.5; 6; 13Alp Aur ; 0.08; 3400;occ; 85; 0;30518
 20; 3423.3; 01-JAN-2008 02:37:52; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30518

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1; -2344.3; 01-JAN-2008 02:42:21; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;30518
 2; -2114.2; 01-JAN-2008 02:46:11; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30518
 3; -1988.5; 01-JAN-2008 02:48:17; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;30518
 4; -1614.9; 01-JAN-2008 02:54:30; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;30518
 5; -1490.9; 01-JAN-2008 02:56:34; Bright; 36.5; 67; 5Alp CrB ; 2.22; 11000;occ; 73; 0;30518
 6; -1147.0; 01-JAN-2008 03:02:18; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;30518
 7; -1007.4; 01-JAN-2008 03:04:38; Bright; 33.5; 120; 1Del Oph ; 2.73; 3200;occ; 67; 0;30518
 8; -844.1; 01-JAN-2008 03:07:21; Bright; 55.0; 104; 27Bet Lib ; 2.61; 13100;occ; 110; 0;30518
 9; -685.7; 01-JAN-2008 03:09:59; Dark ; 42.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 84; 0;30518
 10; -282.3; 01-JAN-2008 03:16:43; Dark ; 37.0; 109; Bet Lup ; 2.68; 26000;occ; 74; 0;30518
 11; -194.3; 01-JAN-2008 03:18:11; Dark ; 37.0; 78; Alp Lup ; 2.30; 28000;occ; 74; 0;30518
 12; -106.5; 01-JAN-2008 03:19:39; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;30518
 13; -2.2; 01-JAN-2008 03:21:23; Dark ; 46.5; 4; Alp1Cen ; -0.01; 5800;occ; 93; 0;30518
 14; 227.1; 01-JAN-2008 03:25:12; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30519
 15; 398.2; 01-JAN-2008 03:28:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30519
 16; 545.7; 01-JAN-2008 03:30:31; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30519
 17; 627.8; 01-JAN-2008 03:31:53; Dark ; 44.0; 71; Iot Car ; 2.25; 7700;occ; 88; 0;30519
 18; 723.5; 01-JAN-2008 03:33:29; Dark ; 44.0; 41; Eps Car ; 1.86; 4100;occ; 88; 0;30519
 19; 977.7; 01-JAN-2008 03:37:43; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;30519
 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
 22; 1769.2; 01-JAN-2008 03:50:54; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;30519
 23; 1881.4; 01-JAN-2008 03:52:46; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;30519
 24; 2033.5; 01-JAN-2008 03:55:18; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;30519
 25; 2200.5; 01-JAN-2008 03:58:05; Dark ; 46.5; 13; 87Alp Tau ; 0.87; 3800;occ; 93; 0;30519
 26; 2398.0; 01-JAN-2008 04:01:23; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;30519
 27; 2472.6; 01-JAN-2008 04:02:38; Bright; 36.5; 114; 3Iot Aur ; 2.69; 4600;occ; 73; 0;30519
 28; 2611.7; 01-JAN-2008 04:04:57; Bright; 35.5; 149; 45Eps Per ; 2.89; 30000;occ; 71; 0;30519
 29; 2693.3; 01-JAN-2008 04:06:18; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;30519
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 2; -2114.2; 01-JAN-2008 04:26:47; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30519
 3; -1988.2; 01-JAN-2008 04:28:53; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;30519
 4; -1614.7; 01-JAN-2008 04:35:06; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;30519
 5; -1490.8; 01-JAN-2008 04:37:10; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;30519
 6; -1146.7; 01-JAN-2008 04:42:54; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;30519
 7; -1007.2; 01-JAN-2008 04:45:14; Bright; 33.0; 120; 1Del Oph ; 2.73; 3200;occ; 66; 0;30519
 8; -843.6; 01-JAN-2008 04:47:57; Bright; 36.0; 104; 27Bet Lib ; 2.61; 13100;occ; 72; 0;30519
 9; -685.1; 01-JAN-2008 04:50:36; Dark ; 45.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 91; 0;30519
 10; -360.4; 01-JAN-2008 04:56:01; Dark ; 38.0; 131; Gam Lup ; 2.80; 26000;occ; 76; 0;30519
 11; -282.1; 01-JAN-2008 04:57:19; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;30519
 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

16; 398.5; 01-JAN-2008 05:08:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30520
 17; 546.0; 01-JAN-2008 05:11:07; Dark ; 41.5; 29; Bet Car ; 1.67; 10200;occ; 83; 0;30520
 18; 628.4; 01-JAN-2008 05:12:29; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30520
 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
 29; 2612.0; 01-JAN-2008 05:45:33; Bright; 34.0; 149; 45Eps Per ; 2.89; 30000;occ; 68; 0;30520
 30; 2693.3; 01-JAN-2008 05:46:54; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;30520
 31; 3423.5; 01-JAN-2008 05:59:04; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;30520

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 2; -2114.1; 01-JAN-2008 06:07:23; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;30520
 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
 18; 629.0; 01-JAN-2008 06:53:06; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;30521
 19; 724.4; 01-JAN-2008 06:54:41; Dark ; 54.0; 41; Eps Car ; 1.86; 4100;occ; 108; 0;30521
 20; 978.2; 01-JAN-2008 06:58:55; Dark ; 45.5; 2; Alp Car ; -0.74; 7000;occ; 91; 0;30521
 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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 2; 1881.5; 01-JAN-2008 07:13:59; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;30521
 3; 2033.3; 01-JAN-2008 07:16:30; Dark ; 47.5; 14; 58Alp Ori ; 0.87; 3000;occ; 95; 0;30521
 4; 2200.9; 01-JAN-2008 07:19:18; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30521
 5; 2397.9; 01-JAN-2008 07:22:35; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30521
 6; 2472.7; 01-JAN-2008 07:23:50; Bright; 36.0; 114; 3Iot Aur ; 2.69; 4600;occ; 72; 0;30521
 7; 2612.2; 01-JAN-2008 07:26:09; Bright; 35.0; 149; 45Eps Per ; 2.89; 30000;occ; 70; 0;30521
 8; 2693.2; 01-JAN-2008 07:27:30; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;30521
 9; 3423.5; 01-JAN-2008 07:39:41; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;30521
 10; 3691.5; 01-JAN-2008 07:44:08; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;30521
 11; 3921.9; 01-JAN-2008 07:47:59; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30521
 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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27; 4052.2; 02-JAN-2008 22:23:56; Bright; 52.0; 130; 23Bet Dra ; 2.80; 5800;occ; 104; 0;30544
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13; 7.1; 03-JAN-2008 03:58:54; Dark ; 53.0; 4; Alp1Cen ; -0.01; 5800;occ; 106; 0;30548
14; 242.0; 03-JAN-2008 04:02:49; Dark ; 39.0; 12; Alp1Cru ; 0.77; 30000;occ; 78; 0;30548
15; 406.7; 03-JAN-2008 04:05:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30548
16; 556.2; 03-JAN-2008 04:08:03; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;30548

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19; 985.3; 03-JAN-2008 04:15:12; Dark ; 43.5; 2; Alp Car ;-0.74; 7000;occ; 87; 0;30548
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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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29; 2691.4; 03-JAN-2008 04:43:38; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;30548
30; 3423.7; 03-JAN-2008 04:55:51; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;30548
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21; 1325.9; 03-JAN-2008 06:01:29; Dark ; 38.5; 108; Alp Col ; 2.65; 15200;occ; 77; 0;30549
22; 1573.2; 03-JAN-2008 06:05:36; Dark ; 43.5; 47; 2Bet CMA ; 1.98; 28000;occ; 87; 0;30549
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26; 2205.6; 03-JAN-2008 06:16:09; Dark ; 43.5; 13; 87Alp Tau ; 0.87; 3800;occ; 87; 0;30549
27; 2396.2; 03-JAN-2008 06:19:19; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30549
28; 2473.7; 03-JAN-2008 06:20:37; Bright; 36.5; 114; 3Iot Aur ; 2.69; 4600;occ; 73; 0;30549
29; 2691.2; 03-JAN-2008 06:24:14; Bright; 42.0; 6; 13Alp Aur ; 0.08; 3400;occ; 84; 0;30549
30; 3423.7; 03-JAN-2008 06:36:27; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30549
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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
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7; 2031.7; 03-JAN-2008 21:18:38; Dark ; 53.5; 14; 58Alp Ori ; 0.87; 3000;occ; 107; 0;30558
8; 2206.9; 03-JAN-2008 21:21:33; Bright; 48.5; 13; 87Alp Tau ; 0.87; 3800;occ; 97; 0;30558
9; 2395.6; 03-JAN-2008 21:24:42; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30558
10; 2474.0; 03-JAN-2008 21:26:00; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30558
11; 2690.5; 03-JAN-2008 21:29:37; Bright; 38.5; 6; 13Alp Aur ; 0.08; 3400;occ; 77; 0;30558
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
18; 4901.3; 03-JAN-2008 22:06:28; Bright; 36.0; 102; 24Alp Ser ; 2.60; 4250;occ; 72; 0;30558
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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 16; 556.9; 03-JAN-2008 07:29:16; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30550
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 21; 1326.1; 03-JAN-2008 07:42:05; Dark ; 37.0; 108; Alp Col ; 2.65; 15200;occ; 74; 0;30550
 22; 1573.3; 03-JAN-2008 07:46:12; Dark ; 41.5; 47; 2Bet CMA ; 1.98; 28000;occ; 83; 0;30550

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 3; 2032.0; 03-JAN-2008 07:53:51; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;30550
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 5; 2396.1; 03-JAN-2008 07:59:55; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30550
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 21; 6279.5; 03-JAN-2008 09:04:38; Dark ; 49.5; 12; Alp1Cru ; 0.77; 30000;occ; 99; 0;30550
 22; 6443.5; 03-JAN-2008 09:07:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30550
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 12; 4053.5; 03-JAN-2008 11:48:44; Bright; 52.0; 130; 23Bet Dra ; 2.80; 5800;occ; 104; 0;30552
 13; 4426.6; 03-JAN-2008 11:54:57; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;30552
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 15; 4899.5; 03-JAN-2008 12:02:50; Bright; 54.0; 102; 24Alp Ser ; 2.60; 4250;occ; 108; 0;30552
 16; 5037.0; 03-JAN-2008 12:05:08; Bright; 33.5; 120; 1Del Oph ; 2.73; 3200;occ; 67; 0;30552
 17; 5207.7; 03-JAN-2008 12:07:58; Bright; 57.0; 104; 27Bet Lib ; 2.61; 13100;occ; 114; 0;30552
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 19; 5768.4; 03-JAN-2008 12:17:19; Dark ; 37.5; 109; Bet Lup ; 2.68; 26000;occ; 75; 0;30552
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 21; 5950.7; 03-JAN-2008 12:20:21; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;30552
 22; 6044.7; 03-JAN-2008 12:21:55; Dark ; 42.5; 4; Alp1Cen ; -0.01; 5800;occ; 85; 0;30552
 23; 6280.5; 03-JAN-2008 12:25:51; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30552
 24; 6444.0; 03-JAN-2008 12:28:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30552
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 26; 6682.1; 03-JAN-2008 12:32:33; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30552
 27; 6774.6; 03-JAN-2008 12:34:05; Dark ; 41.0; 41; Eps Car ; 1.86; 4100;occ; 82; 0;30552
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 5; 2206.3; 03-JAN-2008 12:58:33; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30553
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 15; 5037.3; 03-JAN-2008 13:45:44; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;30553
 16; 5208.2; 03-JAN-2008 13:48:35; Bright; 40.0; 104; 27Bet Lib ; 2.61; 13100;occ; 80; 0;30553
 17; 5686.7; 03-JAN-2008 13:56:33; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;30553
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 21; 6045.1; 03-JAN-2008 14:02:32; Dark ; 48.5; 4; Alp1Cen ; -0.01; 5800;occ; 97; 0;30553
 22; 6281.1; 03-JAN-2008 14:06:28; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30553
 23; 6444.3; 03-JAN-2008 14:09:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30553
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 26; 6775.0; 03-JAN-2008 14:14:42; Dark ; 52.5; 41; Eps Car ; 1.86; 4100;occ; 105; 0;30553
 27; 6967.6; 03-JAN-2008 14:17:54; Dark ; 27.0; 34; Gam2Vel ; 1.79; 23000;occ; 54; 0;30553
 28; 7022.8; 03-JAN-2008 14:18:49; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;30553
 29; 7219.5; 03-JAN-2008 14:22:06; Dark ; 49.0; 117; Pi Pup ; 2.71; 3800;occ; 98; 0;30553
 30; 7362.9; 03-JAN-2008 14:24:30; Dark ; 38.5; 108; Alp Col ; 2.65; 15200;occ; 77; 0;30553

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 3; 1883.8; 03-JAN-2008 14:33:46; Dark ; 42.5; 30; 46Eps Ori ; 1.69; 30000;occ; 85; 0;30554
 4; 2032.0; 03-JAN-2008 14:36:14; Dark ; 47.0; 14; 58Alp Ori ; 0.87; 3000;occ; 94; 0;30554
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 6; 2395.9; 03-JAN-2008 14:42:18; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30554
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 15; 4900.3; 03-JAN-2008 15:24:03; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;30554
 16; 5037.7; 03-JAN-2008 15:26:20; Bright; 34.0; 120; 1Del Oph ; 2.73; 3200;occ; 68; 0;30554
 17; 5209.0; 03-JAN-2008 15:29:11; Bright; 57.0; 104; 27Bet Lib ; 2.61; 13100;occ; 114; 0;30554
 18; 5686.9; 03-JAN-2008 15:37:09; Dark ; 36.0; 131; Gam Lup ; 2.80; 26000;occ; 72; 0;30554
 19; 5769.5; 03-JAN-2008 15:38:32; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30554
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 21; 5952.1; 03-JAN-2008 15:41:35; Dark ; 39.0; 95; Zet Cen ; 2.55; 26000;occ; 78; 0;30554
 22; 6045.4; 03-JAN-2008 15:43:08; Dark ; 49.5; 4; Alp1Cen ; -0.01; 5800;occ; 99; 0;30554
 23; 6281.6; 03-JAN-2008 15:47:04; Dark ; 39.0; 12; Alp1Cru ; 0.77; 30000;occ; 78; 0;30554
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 25; 6594.6; 03-JAN-2008 15:52:17; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30554
 26; 6683.1; 03-JAN-2008 15:53:46; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30554
 27; 6775.5; 03-JAN-2008 15:55:18; Dark ; 48.0; 41; Eps Car ; 1.86; 4100;occ; 96; 0;30554
 28; 6968.2; 03-JAN-2008 15:58:31; Dark ; 27.0; 34; Gam2Vel ; 1.79; 23000;occ; 54; 0;30554
 29; 7023.0; 03-JAN-2008 15:59:25; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;30554
 30; 7219.9; 03-JAN-2008 16:02:42; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;30554
 31; 7363.1; 03-JAN-2008 16:05:06; Dark ; 5.0; 108; Alp Col ; 2.65; 15200;occ; 10; 0;30554

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 3; 1774.1; 03-JAN-2008 16:12:33; Dark ; 41.5; 7; 19Bet Ori ; 0.10; 14000;occ; 83; 0;30555
 4; 1883.7; 03-JAN-2008 16:14:22; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;30555
 5; 2031.9; 03-JAN-2008 16:16:50; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;30555
 6; 2206.4; 03-JAN-2008 16:19:45; Dark ; 50.5; 13; 87Alp Tau ; 0.87; 3800;occ; 101; 0;30555
 7; 2395.8; 03-JAN-2008 16:22:54; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30555
 8; 2473.9; 03-JAN-2008 16:24:12; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30555
 9; 2690.8; 03-JAN-2008 16:27:49; Bright; 37.5; 6; 13Alp Aur ; 0.08; 3400;occ; 75; 0;30555
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 13; 4054.1; 03-JAN-2008 16:50:33; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;30555
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 15; 4551.9; 03-JAN-2008 16:58:50; Bright; 56.0; 67; 5Alp CrB ; 2.22; 11000;occ; 112; 0;30555
 16; 4900.5; 03-JAN-2008 17:04:39; Bright; 36.0; 102; 24Alp Ser ; 2.60; 4250;occ; 72; 0;30555
 17; 5037.8; 03-JAN-2008 17:06:56; Bright; 35.0; 120; 1Del Oph ; 2.73; 3200;occ; 70; 0;30555
 18; 5209.3; 03-JAN-2008 17:09:48; Bright; 57.0; 104; 27Bet Lib ; 2.61; 13100;occ; 114; 0;30555
 19; 5687.2; 03-JAN-2008 17:17:46; Dark ; 36.0; 131; Gam Lup ; 2.80; 26000;occ; 72; 0;30555
 20; 5769.9; 03-JAN-2008 17:19:08; Dark ; 37.0; 109; Bet Lup ; 2.68; 26000;occ; 74; 0;30555
 21; 5858.9; 03-JAN-2008 17:20:37; Dark ; 37.0; 78; Alp Lup ; 2.30; 28000;occ; 74; 0;30555
 22; 5952.8; 03-JAN-2008 17:22:11; Dark ; 39.0; 95; Zet Cen ; 2.55; 26000;occ; 78; 0;30555
 23; 6045.7; 03-JAN-2008 17:23:44; Dark ; 52.5; 4; Alp1Cen ; -0.01; 5800;occ; 105; 0;30555
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27; 6683.8; 03-JAN-2008 17:34:22; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30555
28; 6775.9; 03-JAN-2008 17:35:54; Dark ; 45.0; 41; Eps Car ; 1.86; 4100;occ; 90; 0;30555
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23; 2556.6; 04-JAN-2008 22:36:22; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;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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27; 4430.1; 05-JAN-2008 00:48:11; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 0;30574
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13; 4428.5; 04-JAN-2008 08:02:11; Bright; 33.5; 133; 40Zet Her ; 2.81; 6000;occ; 67; 0;30564
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25; 6447.8; 04-JAN-2008 10:16:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30565
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27; 6688.9; 04-JAN-2008 10:20:27; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30565
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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
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6; -75.4; 04-JAN-2008 13:29:30; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;30567
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8; 252.4; 04-JAN-2008 13:34:58; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30568
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13; 990.3; 04-JAN-2008 13:47:16; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;30568
14; 1188.4; 04-JAN-2008 13:50:34; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;30568
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6; 2395.5; 04-JAN-2008 14:10:41; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30568
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14; -68.9; 05-JAN-2008 06:15:36; Dark ; 41.0; 95; Zet Cen ; 2.55; 26000;occ; 82; 0;30577
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17; 415.4; 05-JAN-2008 06:23:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30578
18; 566.7; 05-JAN-2008 06:26:12; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;30578
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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32; 2689.8; 05-JAN-2008 07:01:35; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30578
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8; 2268.1; 05-JAN-2008 20:19:21; Bright; 37.0; 176; 23Zet Tau ; 3.02; 22000;occ; 74; 0;30586
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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11; 2554.0; 05-JAN-2008 20:24:07; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;30586
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
 17; 4431.8; 05-JAN-2008 20:55:24; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;30586
 18; 4609.8; 05-JAN-2008 20:58:22; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;30586
 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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 13; 994.6; 05-JAN-2008 21:38:43; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 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
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 26; 3684.0; 05-JAN-2008 22:23:32; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;30587
 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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 30; 4610.0; 05-JAN-2008 22:38:58; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;30587
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 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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 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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 6; -1128.0; 05-JAN-2008 07:38:33; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;30578
 7; -992.0; 05-JAN-2008 07:40:49; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;30578
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 9; -717.8; 05-JAN-2008 07:45:23; Bright; 52.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 104; 0;30578
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 13; -165.8; 05-JAN-2008 07:54:35; Dark ; 40.5; 78; Alp Lup ; 2.30; 28000;occ; 81; 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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 5; 2395.1; 05-JAN-2008 10:17:52; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;30580
 6; 2475.7; 05-JAN-2008 10:19:13; Bright; 36.5; 114; 3Iot Aur ; 2.69; 4600;occ; 73; 0;30580
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 12; 4057.9; 05-JAN-2008 10:45:35; Bright; 50.5; 130; 23Bet Dra ; 2.80; 5800;occ; 101; 0;30580
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 16; 5044.6; 05-JAN-2008 11:02:02; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;30580
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 20; 5695.6; 05-JAN-2008 11:12:52; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30580
 21; 5781.7; 05-JAN-2008 11:14:19; Dark ; 37.5; 109; Bet Lup ; 2.68; 26000;occ; 75; 0;30580
 22; 5871.0; 05-JAN-2008 11:15:48; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;30580
 23; 5968.9; 05-JAN-2008 11:17:26; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;30580
 24; 6054.1; 05-JAN-2008 11:18:51; Dark ; 47.5; 4; Alp1Cen ; -0.01; 5800;occ; 95; 0;30580
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 32; 7391.8; 05-JAN-2008 11:41:09; Dark ; 27.0; 23; 21Eps CMa ; 1.50; 26000;occ; 54; 0;30580
 33; 7613.6; 05-JAN-2008 11:44:50; Dark ; 29.0; 47; 2Bet CMa ; 1.98; 28000;occ; 58; 0;30580

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 5; 2211.5; 05-JAN-2008 11:55:24; Bright; 42.5; 13; 87Alp Tau ; 0.87; 3800;occ; 85; 0;30581
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 10; 3423.8; 05-JAN-2008 12:15:37; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30581
 11; 3684.9; 05-JAN-2008 12:19:58; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;30581
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 3; -1604.7; 05-JAN-2008 12:32:24; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;30581
 4; -1426.9; 05-JAN-2008 12:35:22; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;30581
 5; -1126.9; 05-JAN-2008 12:40:22; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;30581
 6; -990.9; 05-JAN-2008 12:42:38; Bright; 34.0; 120; 1Del Oph ; 2.73; 3200;occ; 68; 0;30581
 7; -813.6; 05-JAN-2008 12:45:35; Bright; 40.0; 104; 27Bet Lib ; 2.61; 13100;occ; 80; 0;30581
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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
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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
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
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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
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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
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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
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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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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

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 18; 5707.2; 07-JAN-2008 13:31:02; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30610
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 22; 6311.0; 07-JAN-2008 13:41:06; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30610
 23; 6460.8; 07-JAN-2008 13:43:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30610
 24; 6614.0; 07-JAN-2008 13:46:09; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;30610
 25; 6711.9; 07-JAN-2008 13:47:47; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30610
 26; 6798.7; 07-JAN-2008 13:49:13; Dark ; 41.5; 41; Eps Car ; 1.86; 4100;occ; 83; 0;30610
 27; 7036.3; 07-JAN-2008 13:53:11; Dark ; 45.0; 2; Alp Car ;-0.74; 7000;occ; 90; 0;30610
 28; 7238.4; 07-JAN-2008 13:56:33; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;30610
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 3; 1888.9; 07-JAN-2008 14:07:59; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;30611
 4; 2031.5; 07-JAN-2008 14:10:22; Dark ; 46.5; 14; 58Alp Ori ; 0.87; 3000;occ; 93; 0;30611
 5; 2268.1; 07-JAN-2008 14:14:19; Bright; 36.5; 176; 23Zet Tau ; 3.02; 22000;occ; 73; 0;30611
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 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
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 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
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 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
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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
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 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
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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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 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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11; 3424.3; 07-JAN-2008 17:54:47; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30613
12; 3680.9; 07-JAN-2008 17:59:03; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;30613
13; 3924.7; 07-JAN-2008 18:03:07; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30613
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16; 4615.2; 07-JAN-2008 18:14:38; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;30613
17; 4920.3; 07-JAN-2008 18:19:43; Bright; 39.0; 102; 24Alp Ser ; 2.60; 4250;occ; 78; 0;30613
18; 5054.6; 07-JAN-2008 18:21:57; Bright; 53.0; 120; 1Del Oph ; 2.73; 3200;occ; 106; 0;30613
19; 5382.1; 07-JAN-2008 18:27:25; Dark ; 40.5; 80; 7Del Sco ; 2.32; 30000;occ; 81; 0;30613
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22; 5888.5; 07-JAN-2008 18:35:51; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;30613
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7; 1749.1; 11-JAN-2008 20:22:12; Dark ; 39.0; 56; 53Kap Ori ; 2.07; 30000;occ; 78; 0;30672
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23; 3424.7; 11-JAN-2008 22:30:43; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;30673
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9;	3674.0;	11-JAN-2008	07:29:29;	Bright;		35.5;	60;	7Bet UMi	;	2.08;	3950;occ;	71;	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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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
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13; 2672.5; 20-JAN-2008 15:53:02; Bright; 34.5; 42; 34Bet Aur ; 1.90; 10200;occ; 69; 0;30798
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 23; 6692.9; 25-JAN-2008 12:41:21; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;30867
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 25; 6932.9; 25-JAN-2008 12:45:21; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;30867
 26; 7089.2; 25-JAN-2008 12:47:57; Dark ; 41.0; 34; Gam2Vel ; 1.79; 23000;occ; 82; 0;30867
 27; 7215.6; 25-JAN-2008 12:50:04; Dark ; 41.0; 70; Zet Pup ; 2.25; 39000;occ; 82; 0;30867
 28; 7304.6; 25-JAN-2008 12:51:33; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;30867
 29; 7452.6; 25-JAN-2008 12:54:01; Dark ; 40.5; 23; 21Eps CMa ; 1.50; 26000;occ; 81; 0;30867
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 13; 4290.2; 25-JAN-2008 17:03:06; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;30870
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 15; 4898.4; 25-JAN-2008 17:13:14; Bright; 52.0; 126; 60Bet Oph ; 2.77; 4250;occ; 104; 0;30870
 16; 5271.5; 25-JAN-2008 17:19:27; Dark ; 42.0; 86; 35Eta Oph ; 2.43; 10200;occ; 84; 0;30870
 17; 5527.1; 25-JAN-2008 17:23:43; Dark ; 39.0; 136; 23Tau Sco ; 2.82; 30000;occ; 78; 0;30870
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 19; 5681.8; 25-JAN-2008 17:26:18; Dark ; 40.0; 40; The Sco ; 1.86; 7100;occ; 80; 0;30870
 20; 5796.7; 25-JAN-2008 17:28:12; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;30870
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 22; 6093.6; 25-JAN-2008 17:33:09; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;30870
 23; 6179.8; 25-JAN-2008 17:34:35; Dark ; 41.5; 4; Alp1Cen ; -0.01; 5800;occ; 83; 0;30870
 24; 6352.9; 25-JAN-2008 17:37:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30870
 25; 6453.7; 25-JAN-2008 17:39:09; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30870
 26; 6693.8; 25-JAN-2008 17:43:10; Dark ; 36.5; 29; Bet Car ; 1.67; 10200;occ; 73; 0;30870
 27; 6826.0; 25-JAN-2008 17:45:22; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30870
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 12; 2677.7; 25-JAN-2008 18:16:49; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;30871
 13; 3426.8; 25-JAN-2008 18:29:19; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;30871
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 17; 4898.5; 25-JAN-2008 18:53:50; Bright; 34.5; 126; 60Bet Oph ; 2.77; 4250;occ; 69; 0;30871
 18; 5271.8; 25-JAN-2008 19:00:04; Dark ; 40.0; 86; 35Eta Oph ; 2.43; 10200;occ; 80; 0;30871
 19; 5527.5; 25-JAN-2008 19:04:19; Dark ; 39.0; 136; 23Tau Sco ; 2.82; 30000;occ; 78; 0;30871
 20; 5614.1; 25-JAN-2008 19:05:46; Dark ; 38.5; 85; Kap Sco ; 2.41; 28000;occ; 77; 0;30871
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22; 5796.8; 25-JAN-2008 19:08:49; Dark ; 36.5; 147; Alp Ara ; 2.88; 26000;occ; 73; 0;30871
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 9; 2297.5; 26-JAN-2008 21:00:04; Bright; 39.0; 151; 13Mu Gem ; 2.89; 3000;occ; 78; 0;30887
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 15; 4775.8; 26-JAN-2008 21:41:22; Bright; 35.0; 59; 55Alp Oph ; 2.08; 8900;occ; 70; 0;30887
 16; 4902.7; 26-JAN-2008 21:43:29; Bright; 51.5; 126; 60Bet Oph ; 2.77; 4250;occ; 103; 0;30887

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12; 322.7; 27-JAN-2008 04:50:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30892

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25; 2298.1; 27-JAN-2008 05:23:04; Bright; 39.5; 151; 13Mu Gem ; 2.89; 3000;occ; 79; 0;30892
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27; 2680.3; 27-JAN-2008 05:29:26; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;30892
28; 3427.2; 27-JAN-2008 05:41:53; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;30892

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26; 2680.4; 27-JAN-2008 07:10:03; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;30892
27; 3427.2; 27-JAN-2008 07:22:29; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;30892

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11; 2554.5; 27-JAN-2008 20:32:44; Bright; 34.0; 107; 37The Aur ; 2.65; 11000;occ; 68; 0;30901
12; 2681.6; 27-JAN-2008 20:34:51; Bright; 35.0; 42; 34Bet Aur ; 1.90; 10200;occ; 70; 0;30901
13; 3427.2; 27-JAN-2008 20:47:17; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30901
14; 4086.9; 27-JAN-2008 20:58:16; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;30901
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16; 4779.5; 27-JAN-2008 21:09:49; Bright; 35.0; 59; 55Alp Oph ; 2.08; 8900;occ; 70; 0;30901
17; 4906.3; 27-JAN-2008 21:11:56; Bright; 52.5; 126; 60Bet Oph ; 2.77; 4250;occ; 105; 0;30901

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4; -347.5; 27-JAN-2008 21:24:58; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;30901
5; -233.1; 27-JAN-2008 21:26:52; Dark ; 35.5; 147; Alp Ara ; 2.88; 26000;occ; 71; 0;30901

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7;	159.7;	27-JAN-2008	21:33:25;	Dark	;	43.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	87;	0;	30902
8;	325.5;	27-JAN-2008	21:36:11;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	30902
9;	434.6;	27-JAN-2008	21:38:00;	Dark	;	41.5;	12;	Alp1Cru	;	0.77;	30000;occ;	83;	0;	30902
10;	666.1;	27-JAN-2008	21:41:52;	Dark	;	37.5;	29;	Bet Car	;	1.67;	10200;occ;	75;	0;	30902
11;	801.3;	27-JAN-2008	21:44:07;	Dark	;	39.5;	71;	Iot Car	;	2.25;	7700;occ;	79;	0;	30902
12;	908.5;	27-JAN-2008	21:45:54;	Dark	;	40.5;	46;	Del Vel	;	1.95;	10600;occ;	81;	0;	30902
13;	1063.0;	27-JAN-2008	21:48:28;	Dark	;	42.0;	34;	Gam2Vel	;	1.79;	23000;occ;	84;	0;	30902
14;	1188.9;	27-JAN-2008	21:50:34;	Dark	;	38.0;	70;	Zet Pup	;	2.25;	39000;occ;	76;	0;	30902
15;	1275.7;	27-JAN-2008	21:52:01;	Dark	;	42.5;	117;	Pi Pup	;	2.71;	3800;occ;	85;	0;	30902
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
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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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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
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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
10;	155.6;	27-JAN-2008	08:08:34;	Dark	;	45.0;	4;	Alp1Cen	;	-0.01;	5800;occ;	90;	0;	30894
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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4; 1644.1; 31-JAN-2008 16:30:29; Dark ; 45.5; 1; 9Alp CMa ; -1.44; 11000;occ; 91; 0;30956
5; 1993.0; 31-JAN-2008 16:36:18; Dark ; 51.5; 8; 10Alp CMi ; 0.40; 6500;occ; 103; 0;30956
6; 2197.9; 31-JAN-2008 16:39:43; Bright; 38.5; 44; 24Gam Gem ; 1.93; 11000;occ; 77; 0;30956
7; 2307.6; 31-JAN-2008 16:41:33; Bright; 39.0; 151; 13Mu Gem ; 2.89; 3000;occ; 78; 0;30956
8; 2457.8; 31-JAN-2008 16:44:03; Bright; 39.5; 24; 66Alp Gem ; 1.58; 10200;occ; 79; 0;30956
9; 2565.3; 31-JAN-2008 16:45:50; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;30956
10; 2690.6; 31-JAN-2008 16:47:56; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;30956
11; 3427.8; 31-JAN-2008 17:00:13; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;30956
12; 4087.3; 31-JAN-2008 17:11:12; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;30956
13; 4303.3; 31-JAN-2008 17:14:48; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;30956
14; 4794.4; 31-JAN-2008 17:22:59; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 0;30956
15; 4922.2; 31-JAN-2008 17:25:07; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;30956
16; 5308.6; 31-JAN-2008 17:31:34; Dark ; 42.5; 86; 35Eta Oph ; 2.43; 10200;occ; 85; 0;30956
17; 5474.5; 31-JAN-2008 17:34:20; Dark ; 40.0; 167; 10Gam2Sgr ; 2.98; 4500;occ; 80; 0;30956
18; 5613.8; 31-JAN-2008 17:36:39; Dark ; 41.5; 25; 35Lam Sco ; 1.62; 28000;occ; 83; 0;30956
19; 5702.5; 31-JAN-2008 17:38:08; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;30956
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21; 5909.6; 31-JAN-2008 17:41:35; Dark ; 37.5; 141; Bet Ara ; 2.84; 4600;occ; 75; 0;30956
22; 6123.7; 31-JAN-2008 17:45:09; Dark ; 36.5; 134; Bet TrA ; 2.81; 6600;occ; 73; 0;30956
23; 6225.0; 31-JAN-2008 17:46:50; Dark ; 41.5; 4; Alp1Cen ; -0.01; 5800;occ; 83; 0;30956
24; 6376.8; 31-JAN-2008 17:49:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30956
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26; 6715.8; 31-JAN-2008 17:55:01; Dark ; 44.0; 29; Bet Car ; 1.67; 10200;occ; 88; 0;30956
27; 6856.3; 31-JAN-2008 17:57:21; Dark ; 38.0; 71; Iot Car ; 2.25; 7700;occ; 76; 0;30956
28; 6961.7; 31-JAN-2008 17:59:07; Dark ; 38.5; 46; Del Vel ; 1.95; 10600;occ; 77; 0;30956
29; 7113.6; 31-JAN-2008 18:01:39; Dark ; 36.0; 34; Gam2Vel ; 1.79; 23000;occ; 72; 0;30956

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