

GOMOS Daily Report 04-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	06JAN2008 05:49:45
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (04JAN2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (05JAN2008 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).

! DMOP (mission plan) file not available for current day: plot NOT generated.

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

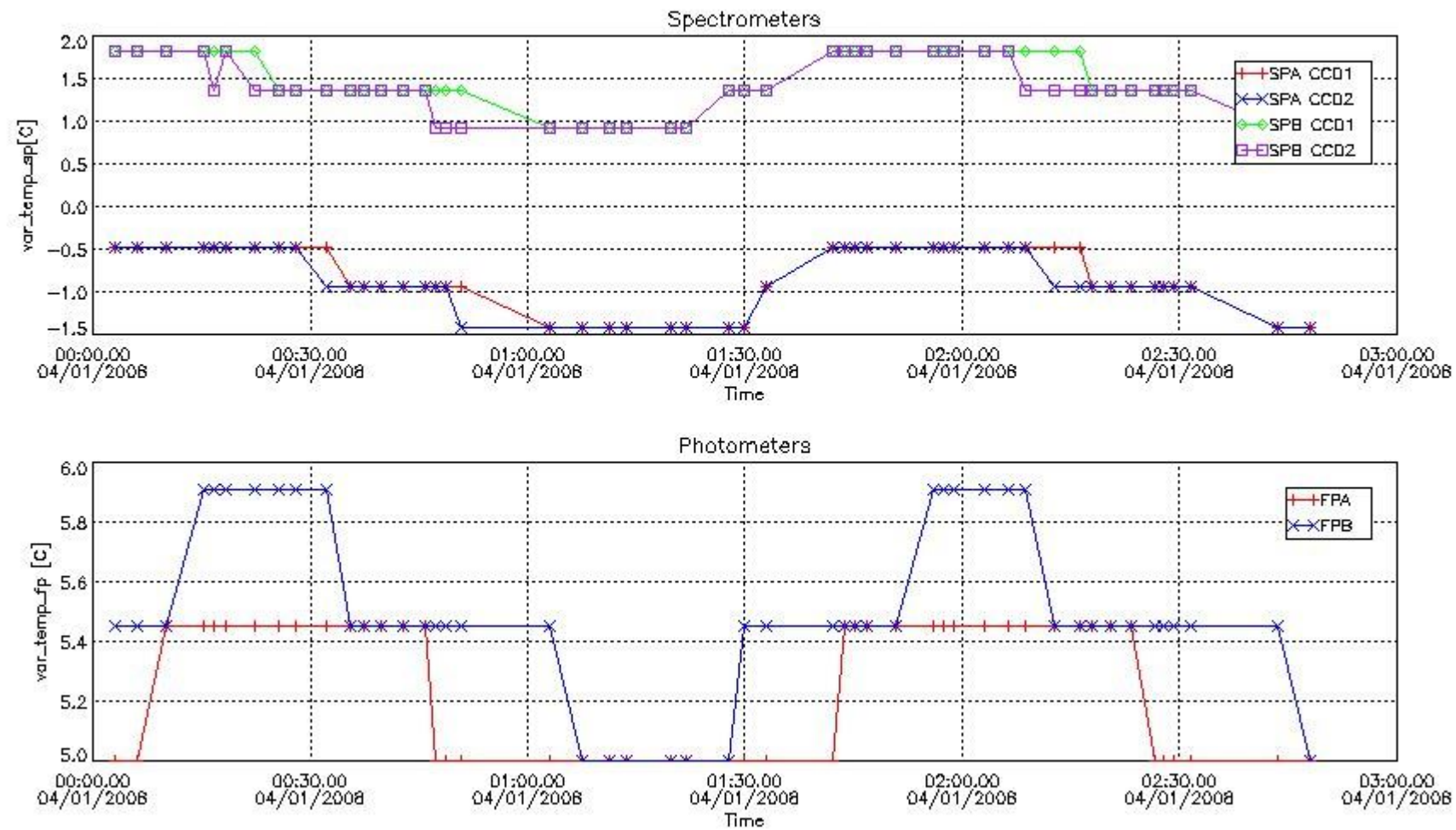
! DMOP (mission plan) file not available for current day: information on missing products NOT generated.

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_1PNPDE20080104_000303_000000392064_00445_30559_3210.N1	04-JAN-2008 00:03:03	Dark	38.500	78	Alp Lup	2.3040	28000.	77	30559	No
2	GOM_TRA_1PNPDE20080104_000609_000000492064_00446_30560_3211.N1	04-JAN-2008 00:06:09	Dark	49.000	4	Alp1Cen	-0.010000	5800.0	98	30560	No
3	GOM_TRA_1PNPDE20080104_001006_000000412064_00446_30560_3212.N1	04-JAN-2008 00:10:06	Dark	40.500	12	Alp1Cru	0.77500	30000.	81	30560	No
4	GOM_TRA_1PNPDE20080104_001518_000000392064_00446_30560_3213.N1	04-JAN-2008 00:15:18	Dark	38.500	29	Bet Car	1.6720	10200.	77	30560	No
5	GOM_TRA_1PNPDE20080104_001648_000000412064_00446_30560_3214.N1	04-JAN-2008 00:16:48	Dark	40.500	71	lot Car	2.2460	7700.0	81	30560	No
6	GOM_TRA_1PNPDE20080104_001820_000000452064_00446_30560_3215.N1	04-JAN-2008 00:18:20	Dark	44.500	41	Eps Car	1.8600	4100.0	89	30560	No
7	GOM_TRA_1PNPDE20080104_002226_000000522064_00446_30560_3216.N1	04-JAN-2008 00:22:26	Dark	51.500	2	Alp Car	-0.73600	7000.0	103	30560	No
8	GOM_TRA_1PNPDE20080104_002544_000000462064_00446_30560_3217.N1	04-JAN-2008 00:25:44	Dark	46.000	117	Pi Pup	2.7060	3800.0	92	30560	No
9	GOM_TRA_1PNPDE20080104_002806_000000382064_00446_30560_3218.N1	04-JAN-2008 00:28:06	Straylight	38.000	108	Alp Col	2.6520	15200.	76	30560	No
10	GOM_TRA_1PNPDE20080104_003213_000000422064_00446_30560_3219.N1	04-JAN-2008 00:32:13	Straylight	41.500	47	2Bet CMa	1.9760	28000.	83	30560	No
11	GOM_TRA_1PNPDE20080104_003533_000000462064_00446_30560_3220.N1	04-JAN-2008 00:35:33	Straylight	46.000	7	19Bet Ori	0.10000	14000.	92	30560	No
12	GOM_TRA_1PNPDE20080104_003722_000000412064_00446_30560_3221.N1	04-JAN-2008 00:37:22	Straylight	40.500	30	46Eps Ori	1.6940	30000.	81	30560	No
13	GOM_TRA_1PNPDE20080104_003950_000000482064_00446_30560_3222.N1	04-JAN-2008 00:39:50	Twilight_stray	48.000	14	58Alp Ori	0.87000	3000.0	96	30560	No
14	GOM_TRA_1PNPDE20080104_004245_000000452064_00446_30560_3223.N1	04-JAN-2008 00:42:45	Bright	45.000	13	87Alp Tau	0.86700	3800.0	90	30560	No
15	GOM_TRA_1PNPDE20080104_004554_000000382064_00446_30560_3224.N1	04-JAN-2008 00:45:54	Bright	38.000	28	12Bet Tau	1.6500	15200.	76	30560	No
16	GOM_TRA_1PNPDE20080104_004712_000000372064_00446_30560_3225.N1	04-JAN-2008 00:47:12	Bright	37.000	114	3lot Aur	2.6930	4600.0	74	30560	No
17	GOM_TRA_1PNPDE20080104_004837_000000332064_00446_30560_3226.N1	04-JAN-2008 00:48:37	Bright	33.000	107	37The Aur	2.6490	11000.	66	30560	No
18	GOM_TRA_1PNPDE20080104_005049_000000422064_00446_30560_3227.N1	04-JAN-2008 00:50:49	Bright	42.000	6	13Alp Aur	0.080000	3400.0	84	30560	No
19	GOM_TRA_1PNPDE20080104_010302_000000372064_00446_30560_3228.N1	04-JAN-2008 01:03:02	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	30560	No
20	GOM_TRA_1PNPDE20080104_010725_000000372064_00446_30560_3229.N1	04-JAN-2008 01:07:25	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	30560	No
21	GOM_TRA_1PNPDE20080104_011121_000000372064_00446_30560_3230.N1	04-JAN-2008 01:11:21	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	30560	No
22	GOM_TRA_1PNPDE20080104_011333_000000522064_00446_30560_3231.N1	04-JAN-2008 01:13:33	Bright	52.000	130	23Bet Dra	2.7990	5800.0	104	30560	No
23	GOM_TRA_1PNPDE20080104_011946_000000352064_00446_30560_3232.N1	04-JAN-2008 01:19:46	Bright	34.500	133	40Zet Her	2.8070	6000.0	69	30560	No
24	GOM_TRA_1PNPDE20080104_012151_000000562064_00446_30560_3233.N1	04-JAN-2008 01:21:51	Bright	56.000	67	5Alp CrB	2.2210	11000.	112	30560	No
25	GOM_TRA_1PNPDE20080104_012740_000000372064_00446_30560_3234.N1	04-JAN-2008 01:27:40	Bright	36.500	102	24Alp Ser	2.6000	4250.0	73	30560	No
26	GOM_TRA_1PNPDE20080104_012957_000000352064_00446_30560_3235.N1	04-JAN-2008 01:29:57	Bright	34.500	120	1Del Oph	2.7340	3200.0	69	30560	No
27	GOM_TRA_1PNPDE20080104_013250_000000462064_00446_30560_3346.N1	04-JAN-2008 01:32:50	Bright	45.500	104	27Bet Lib	2.6140	13100.	91	30560	No
28	GOM_TRA_1PNPDE20080104_014210_000000382064_00446_30560_3347.N1	04-JAN-2008 01:42:10	Dark	38.000	109	Bet Lup	2.6770	26000.	76	30560	No
29	GOM_TRA_1PNPDE20080104_014339_000000372064_00446_30560_3348.N1	04-JAN-2008 01:43:39	Dark	37.000	78	Alp Lup	2.3040	28000.	74	30560	No
30	GOM_TRA_1PNPDE20080104_014514_000000432064_00446_30560_3349.N1	04-JAN-2008 01:45:14	Dark	43.000	95	Zet Cen	2.5450	26000.	86	30560	No

31	GOM_TRA_1PNPDE20080104_014645_000000432064_00447_30561_3350.N1	04-JAN-2008 01:46:45	Dark	42.500	4	Alp1Cen	-0.010000	5800.0	85	30561	No
32	GOM_TRA_1PNPDE20080104_015043_000000462064_00447_30561_3351.N1	04-JAN-2008 01:50:43	Dark	45.500	12	Alp1Cru	0.775000	30000.	91	30561	No
33	GOM_TRA_1PNPDE20080104_015555_000000382064_00447_30561_3352.N1	04-JAN-2008 01:55:55	Dark	38.000	29	Bet Car	1.6720	10200.	76	30561	No
34	GOM_TRA_1PNPDE20080104_015724_000000412064_00447_30561_3353.N1	04-JAN-2008 01:57:24	Dark	41.000	71	lot Car	2.2460	7700.0	82	30561	No
35	GOM_TRA_1PNPDE20080104_015856_000000442064_00447_30561_3354.N1	04-JAN-2008 01:58:56	Dark	44.000	41	Eps Car	1.8600	4100.0	88	30561	No
36	GOM_TRA_1PNPDE20080104_020302_000000512064_00447_30561_3355.N1	04-JAN-2008 02:03:02	Dark	50.500	2	Alp Car	-0.736000	7000.0	101	30561	No
37	GOM_TRA_1PNPDE20080104_020620_000000482064_00447_30561_3356.N1	04-JAN-2008 02:06:20	Dark	47.500	117	Pi Pup	2.7060	3800.0	95	30561	No
38	GOM_TRA_1PNPDE20080104_020842_000000392064_00447_30561_3357.N1	04-JAN-2008 02:08:42	Straylight	39.000	108	Alp Col	2.6520	15200.	78	30561	No
39	GOM_TRA_1PNPDE20080104_021249_000000442064_00447_30561_3358.N1	04-JAN-2008 02:12:49	Straylight	44.000	47	2Bet CMa	1.9760	28000.	88	30561	No
40	GOM_TRA_1PNPDE20080104_021609_000000502064_00447_30561_3359.N1	04-JAN-2008 02:16:09	Straylight	50.000	7	19Bet Ori	0.100000	14000.	100	30561	No
41	GOM_TRA_1PNPDE20080104_021758_000000422064_00447_30561_3360.N1	04-JAN-2008 02:17:58	Straylight	42.000	30	46Eps Ori	1.6940	30000.	84	30561	No
42	GOM_TRA_1PNPDE20080104_022026_000000492064_00447_30561_3361.N1	04-JAN-2008 02:20:26	Twilight_stray	49.000	14	58Alp Ori	0.870000	3000.0	98	30561	No
43	GOM_TRA_1PNPDE20080104_022321_000000452064_00447_30561_3362.N1	04-JAN-2008 02:23:21	Bright	44.500	13	87Alp Tau	0.867000	3800.0	89	30561	No
44	GOM_TRA_1PNPDE20080104_022630_000000392064_00447_30561_3363.N1	04-JAN-2008 02:26:30	Bright	38.500	28	12Bet Tau	1.6500	15200.	77	30561	No
45	GOM_TRA_1PNPDE20080104_022748_000000392064_00447_30561_3364.N1	04-JAN-2008 02:27:48	Bright	38.500	114	3lot Aur	2.6930	4600.0	77	30561	No
46	GOM_TRA_1PNPDE20080104_022913_000000332064_00447_30561_3365.N1	04-JAN-2008 02:29:13	Bright	33.000	107	37The Aur	2.6490	11000.	66	30561	No
47	GOM_TRA_1PNPDE20080104_023124_000000422064_00447_30561_3366.N1	04-JAN-2008 02:31:24	Bright	41.500	6	13Alp Aur	0.080000	3400.0	83	30561	No
48	GOM_TRA_1PNPDE20080104_024338_000000352064_00447_30561_3367.N1	04-JAN-2008 02:43:38	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	30561	No
49	GOM_TRA_1PNPDE20080104_024801_000000342064_00447_30561_3368.N1	04-JAN-2008 02:48:01	Bright	34.000	60	7Bet UMi	2.0810	3950.0	68	30561	No

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



4. Overview of dark signal processing per product

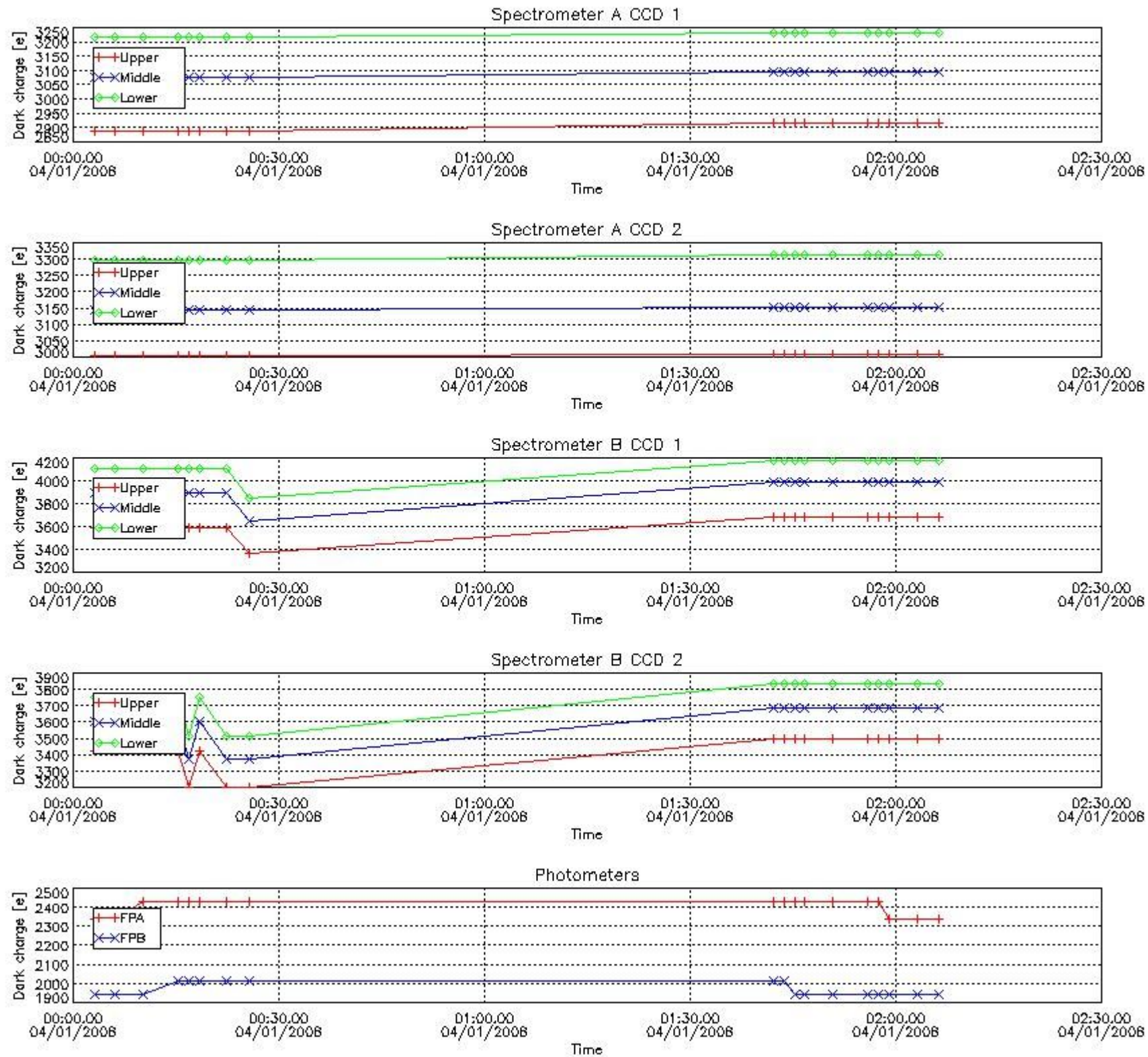
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted

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



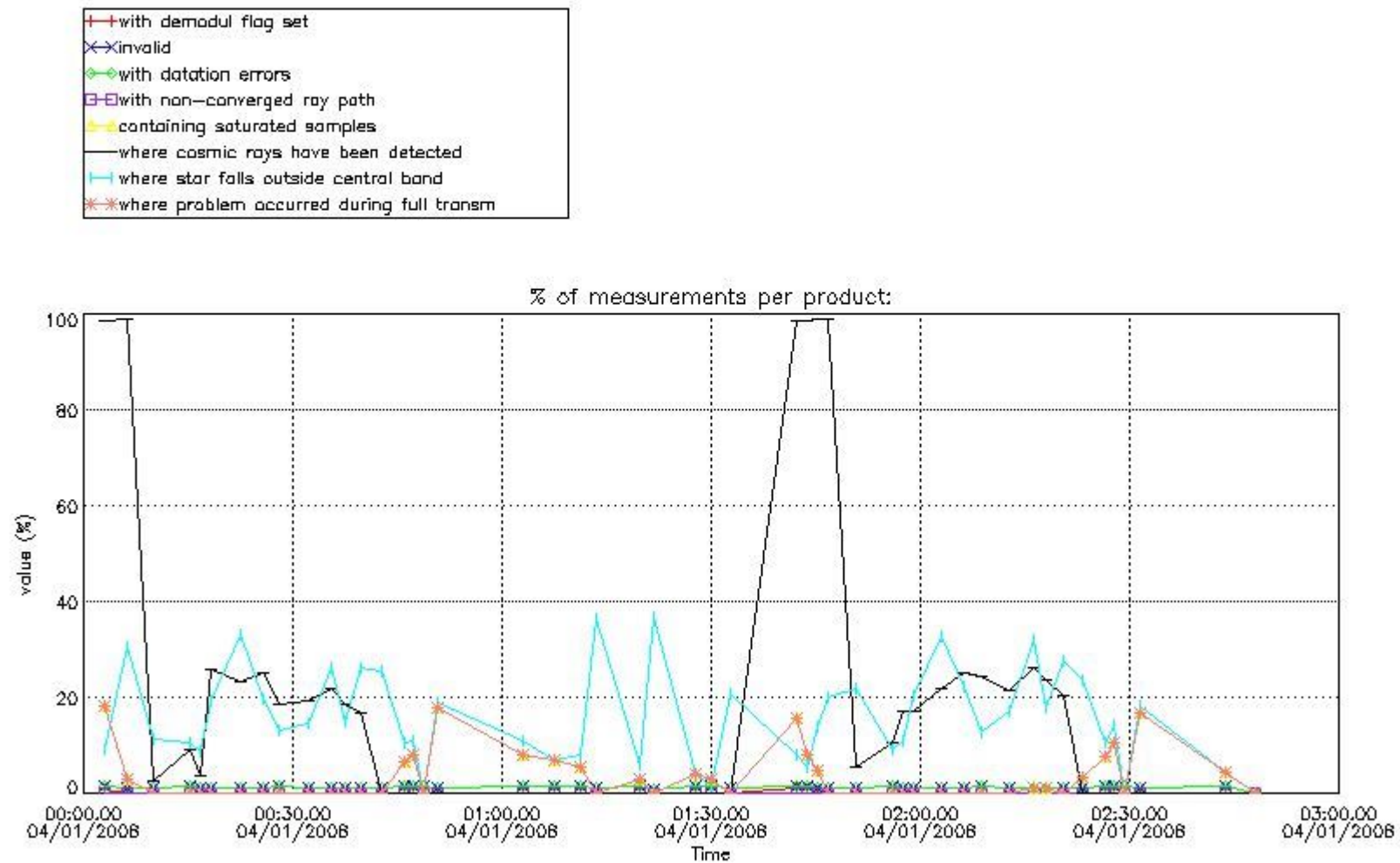
5. Demodulation flag and quality information monitoring

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.

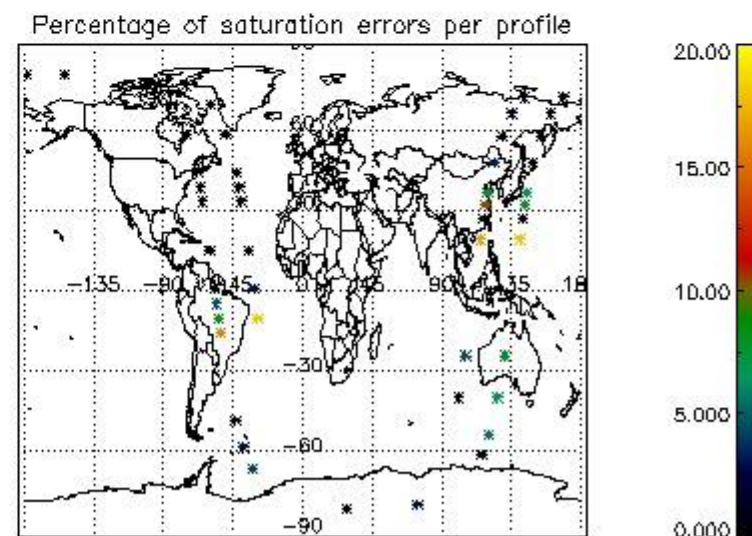
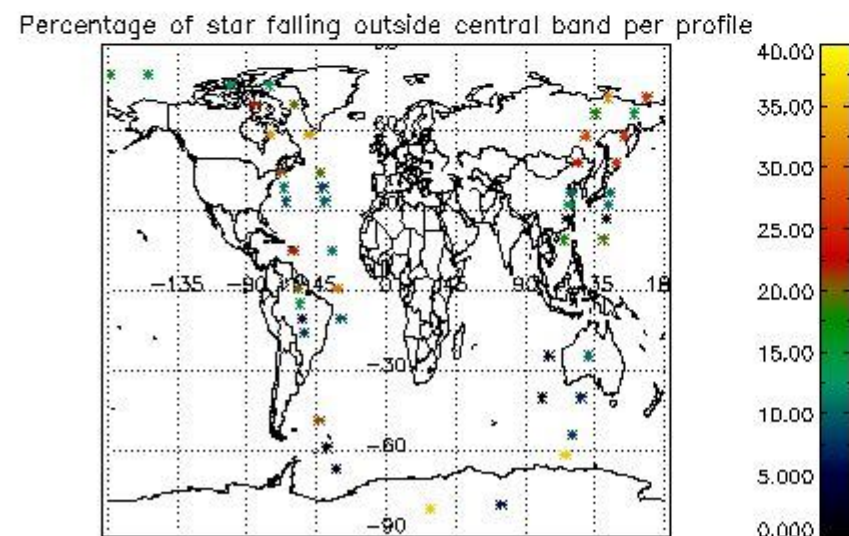
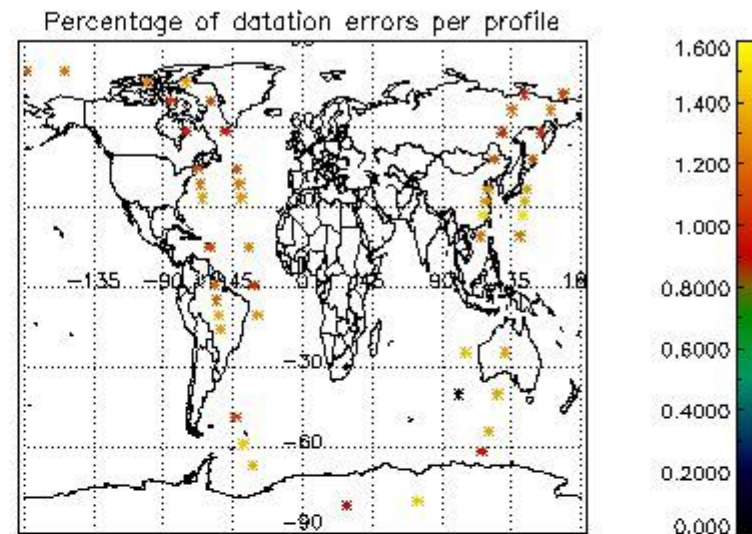
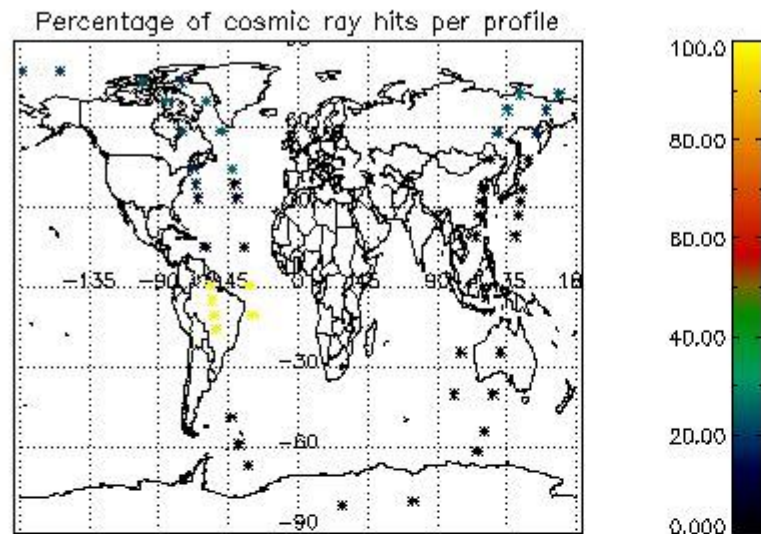
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.3265 %
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)



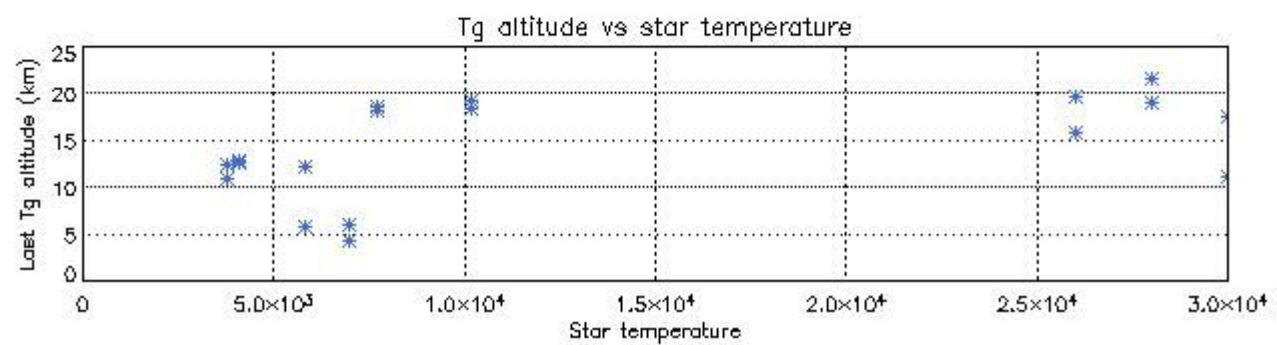
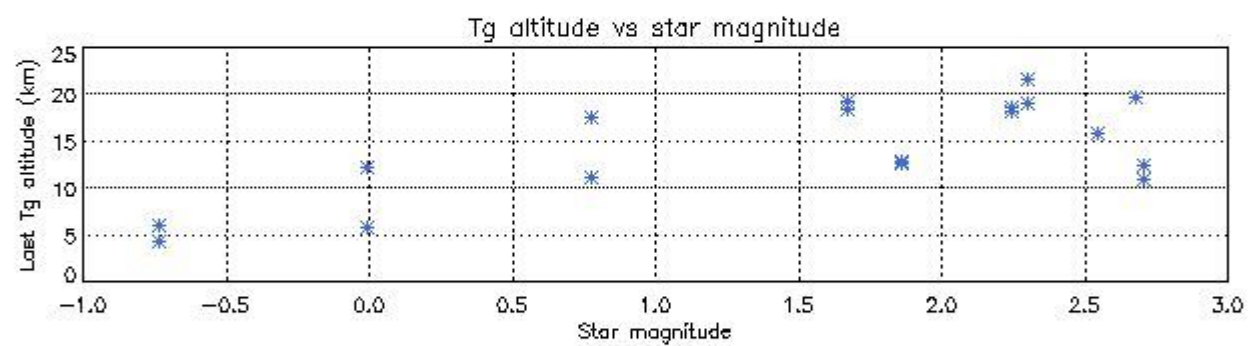
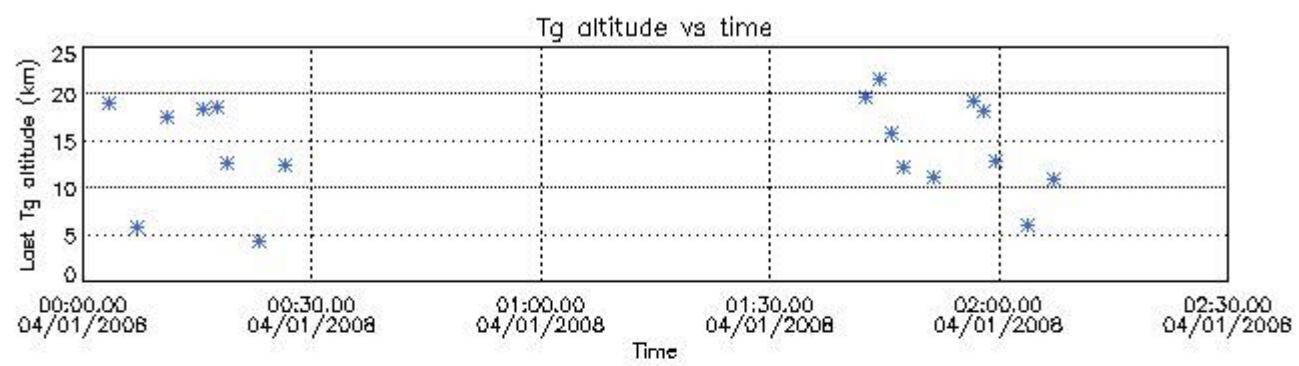
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.236	17.784	NaN
St. deviation:	5.2439	7.9316	NaN
Maximum:	21.568	32.169	NaN
Minimum:	4.3491	3.0174	NaN
Number of data:	18.000	21.000	NaN

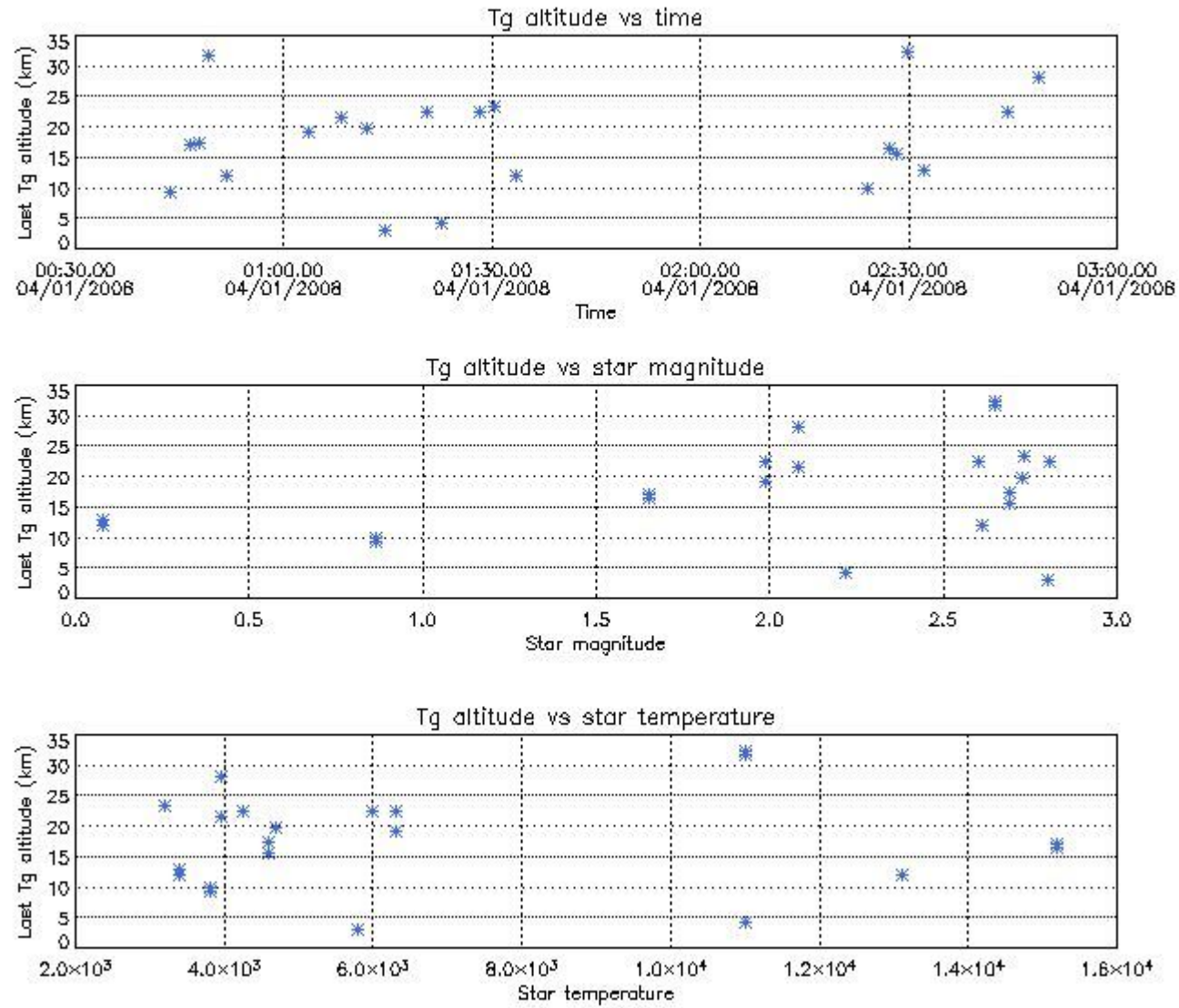
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

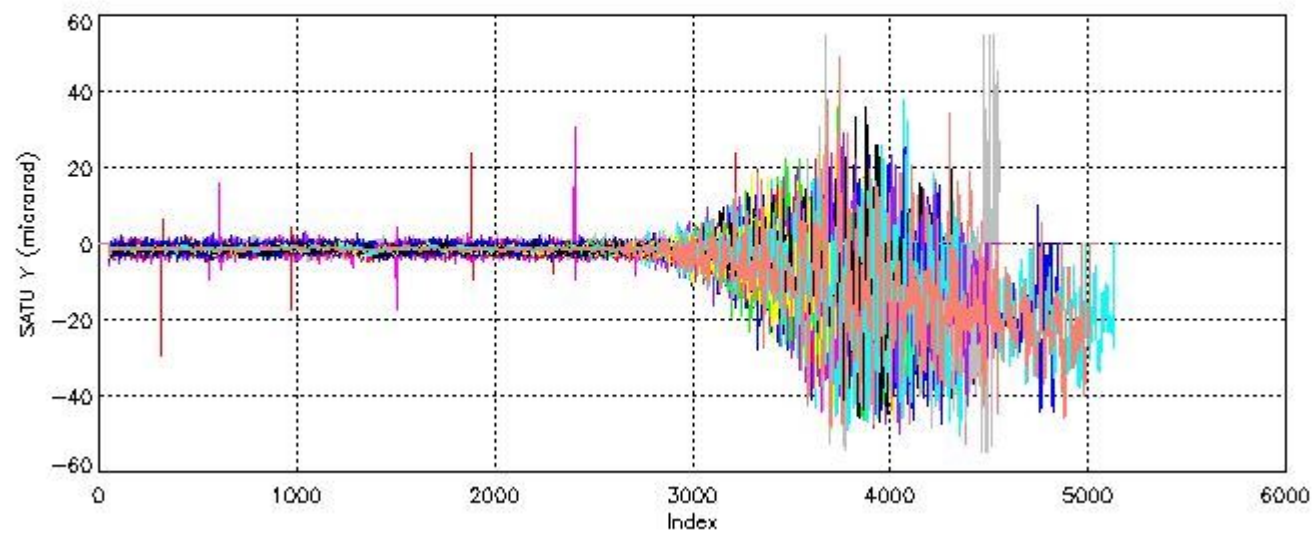
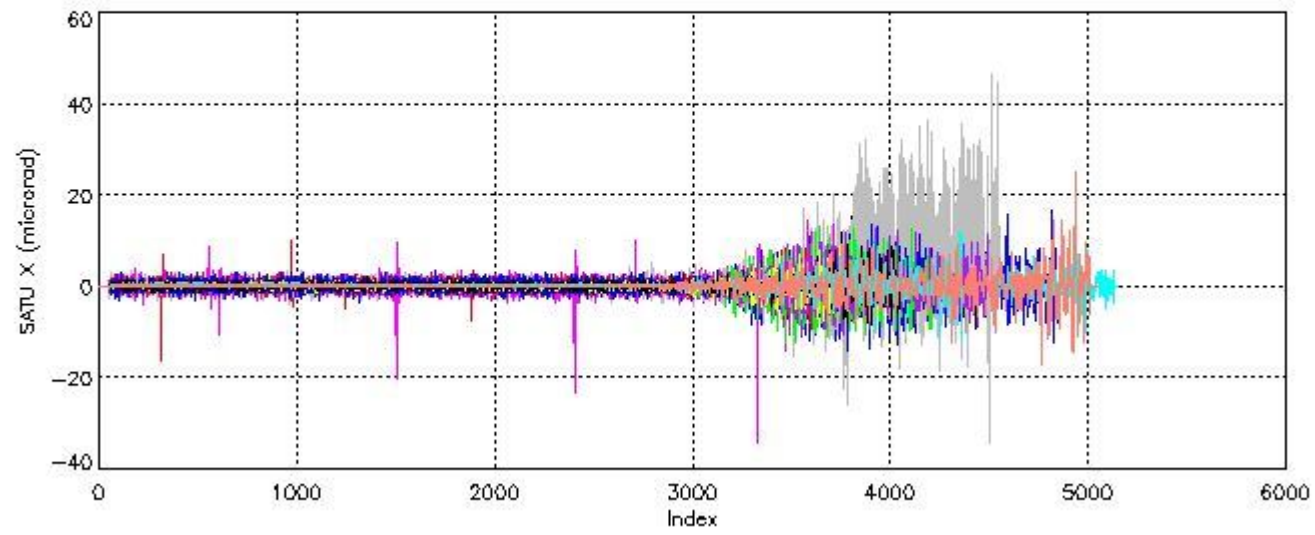


7. Star Acquisition and Tracking Unit (SATU)

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:	0.11087	-1.3477	0.045732	-1.3450
St. deviation:	0.44934	0.68426	0.56909	0.78622
Maximum:	8.6000	15.700	4.8000	2.7000
Minimum:	-16.200	-29.400	-4.9000	-6.6000

Number of data:	16250.	16250.	17600.	17600.
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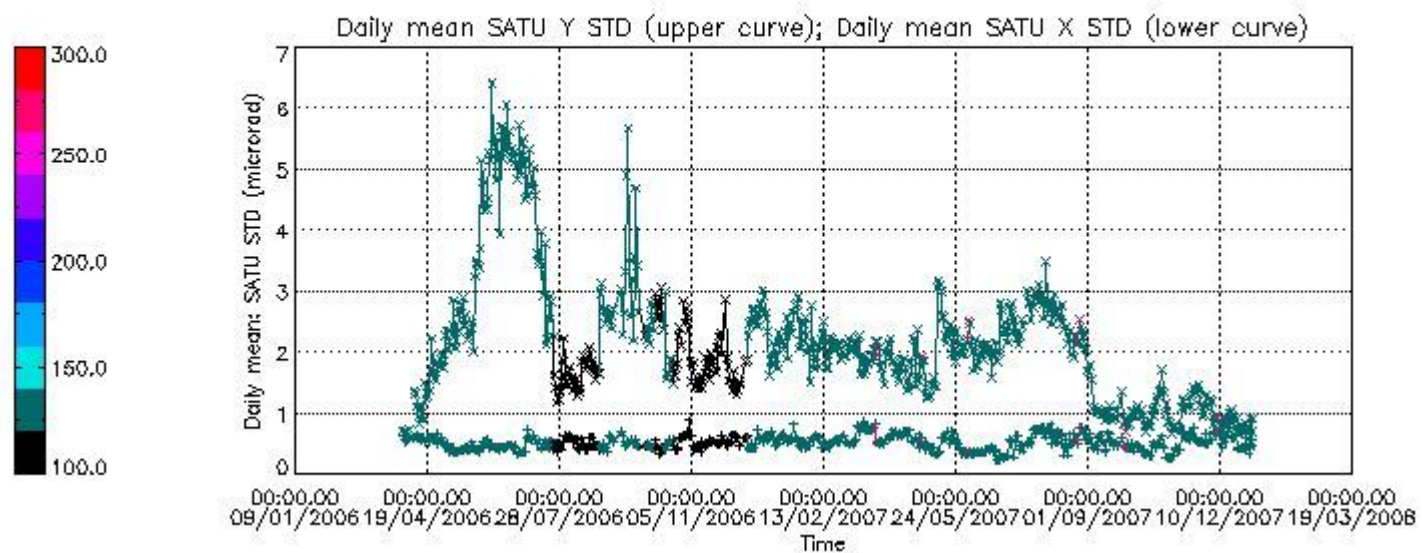
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

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

Upper curve: STD of SATU Y axis

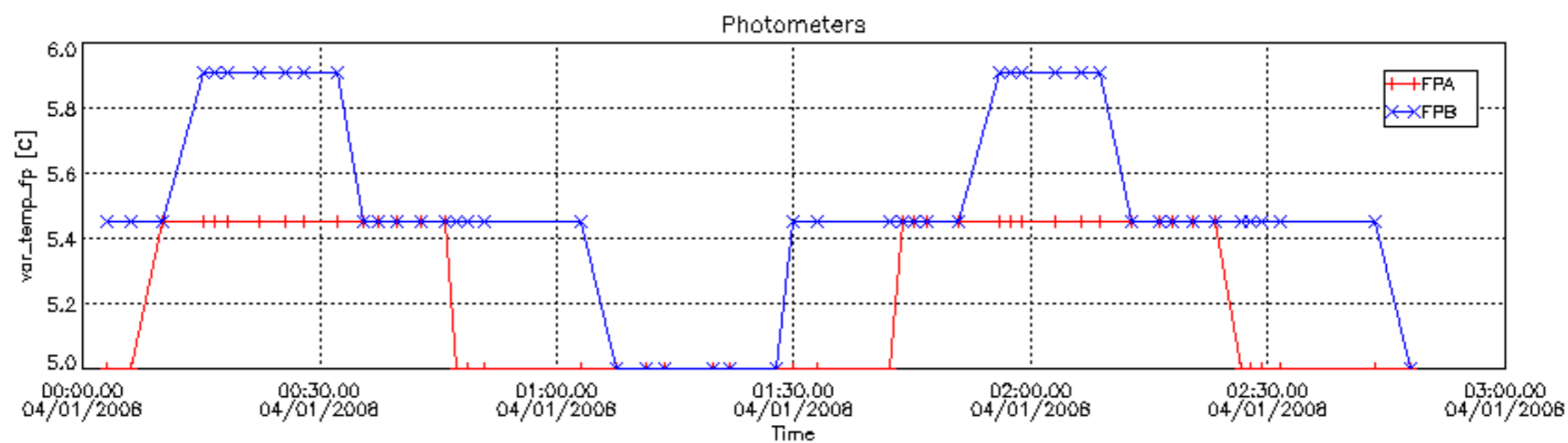
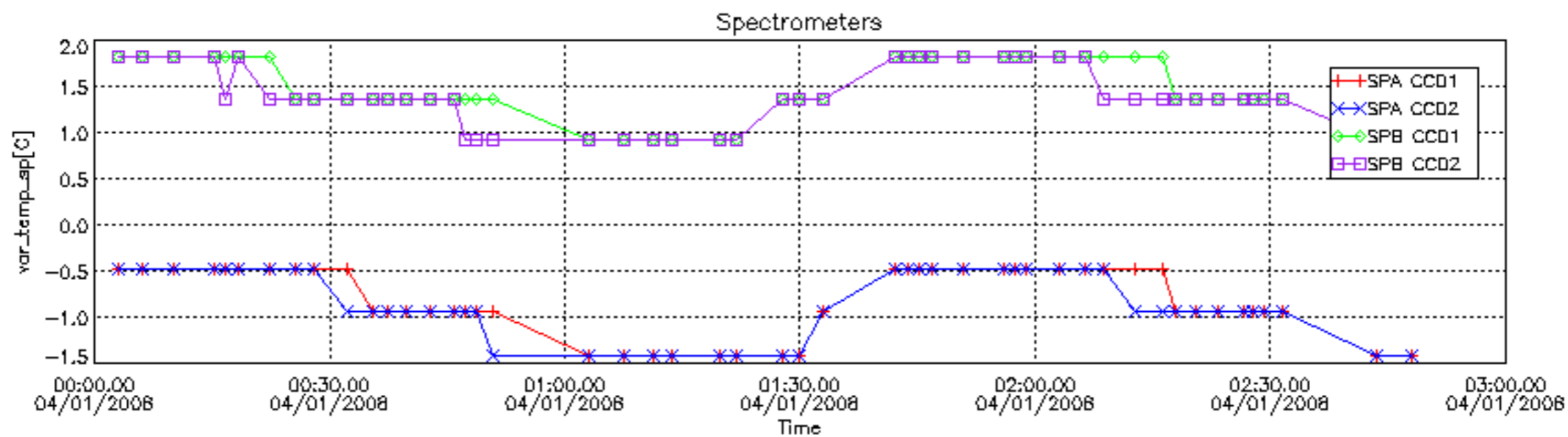
Lower curve: STD of SATU X axis

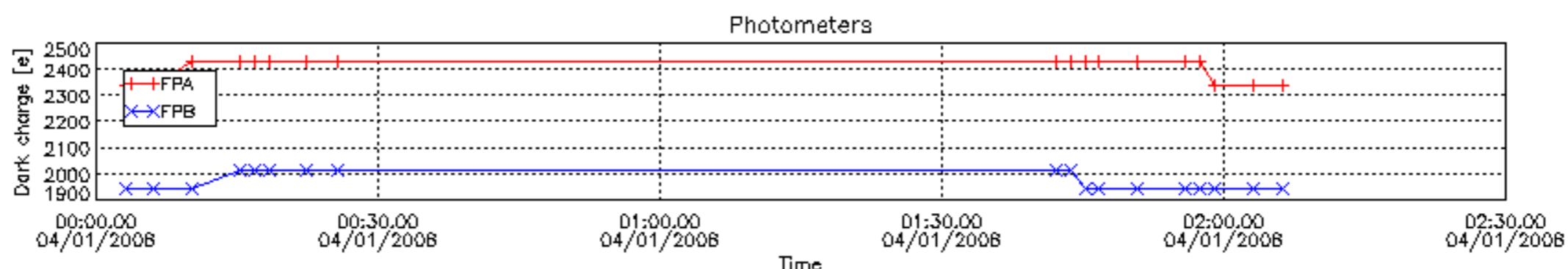
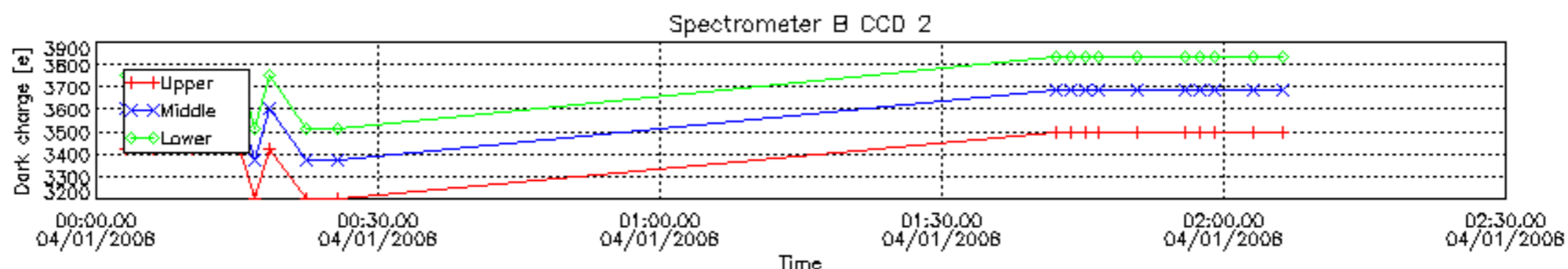
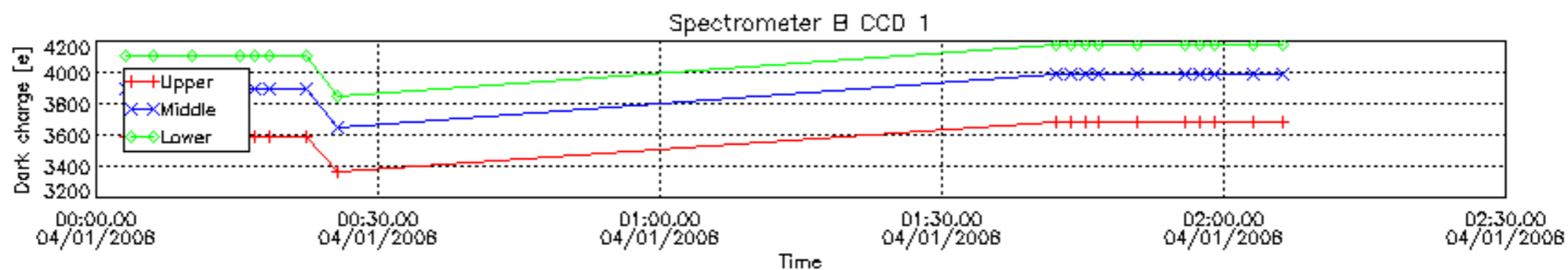
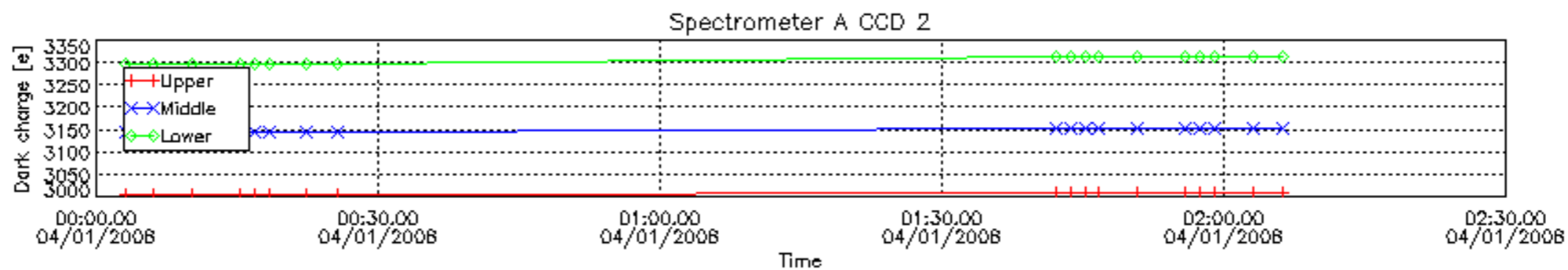
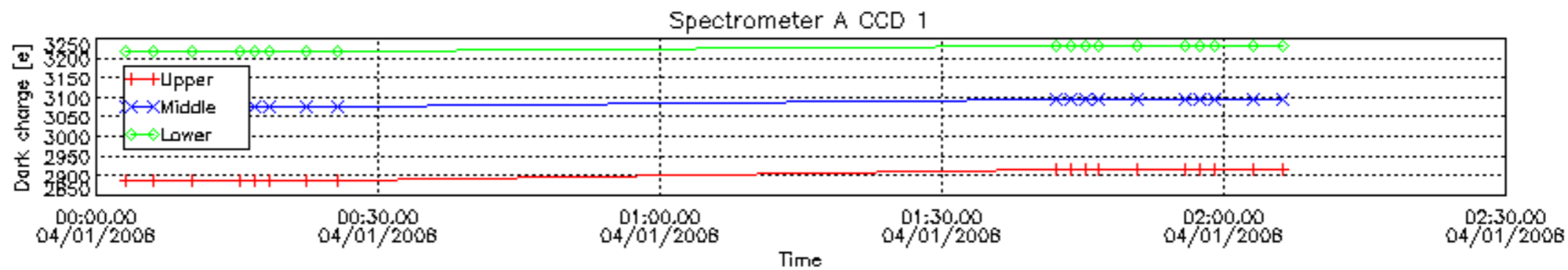


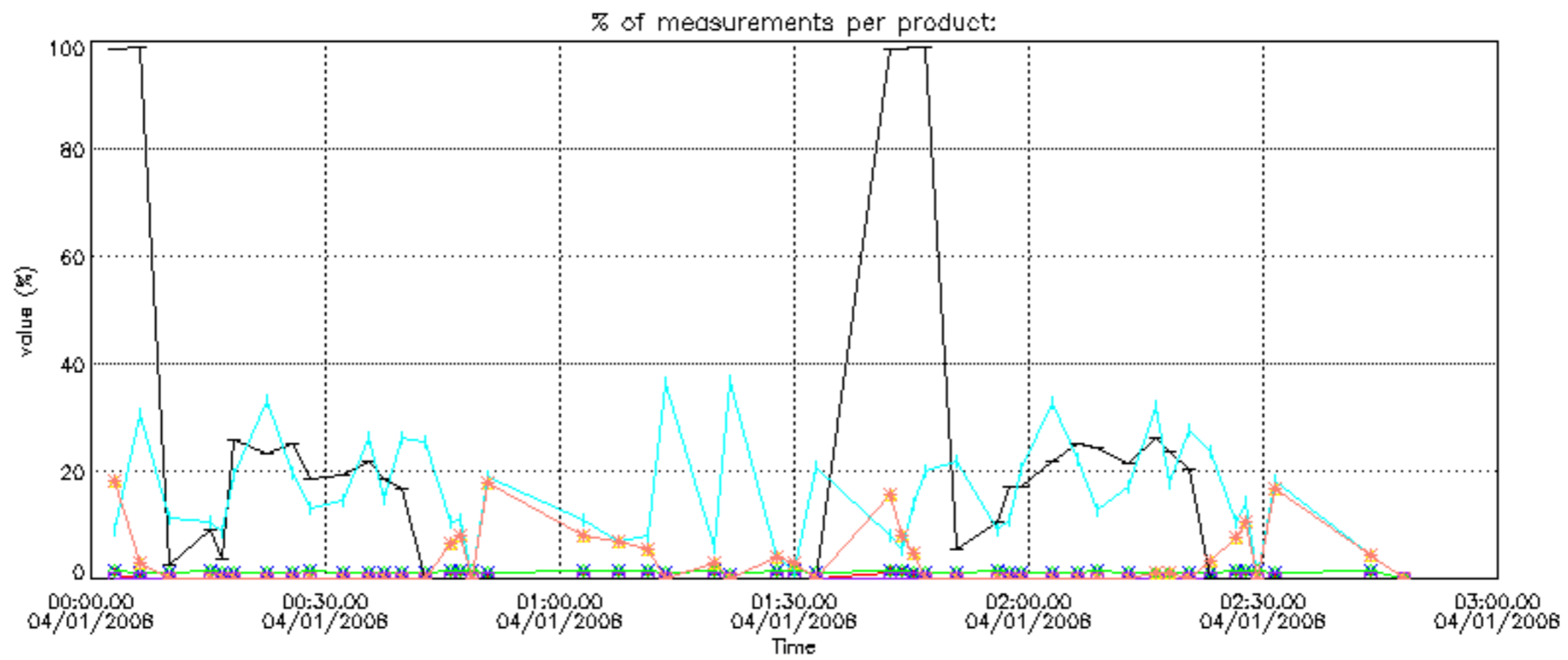
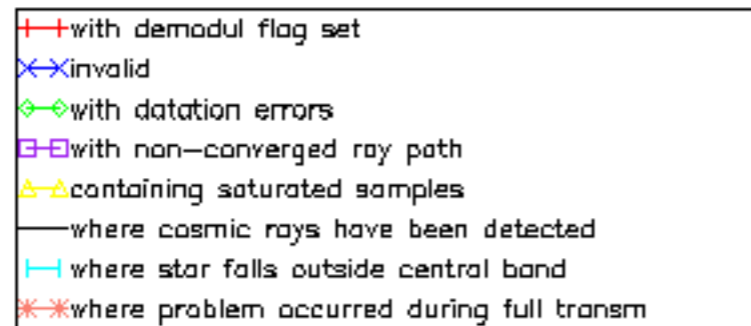
8. Auxiliary Data Files used for the production reported in section 2.4

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

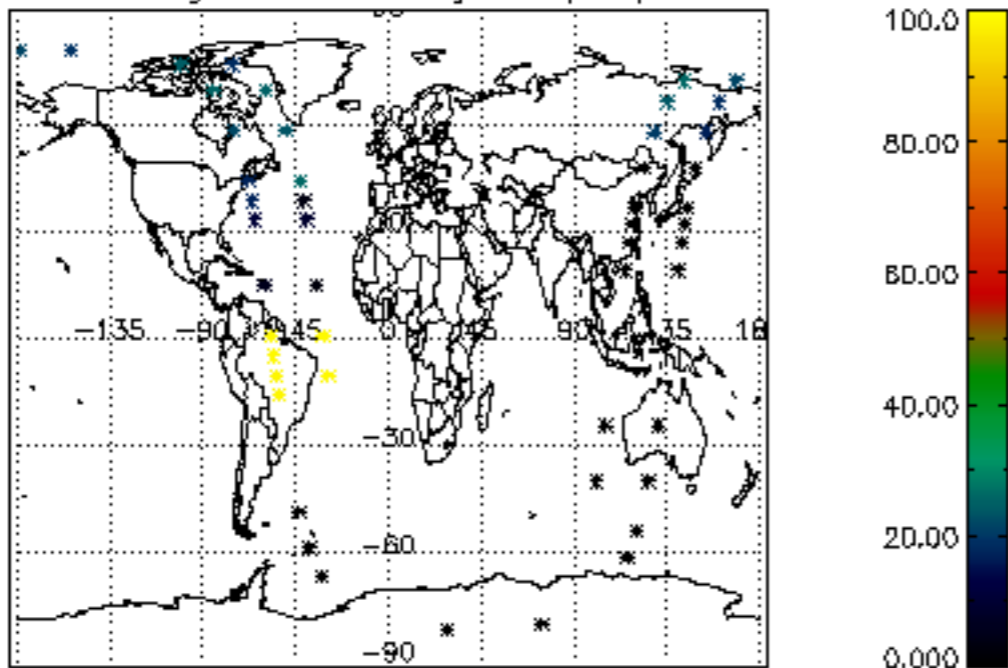
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	04-JAN-2008 00:03:03
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080102_115237_20071231_000000_20100101_000000	1	04-JAN-2008 00:03:03
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	04-JAN-2008 00:03:03
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	04-JAN-2008 00:03:03
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	04-JAN-2008 00:03:03
ECMWF_FILE	AUX_ECF_AXNECM20080103_083111_20080103_210000_20080104_090000	1	04-JAN-2008 00:03:03
OPTIONAL_ECMWF_FILE	MISSING	1	04-JAN-2008 00:03:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080103_221227_000057382064_00444_30558_4879.N1	1	04-JAN-2008 00:03:03
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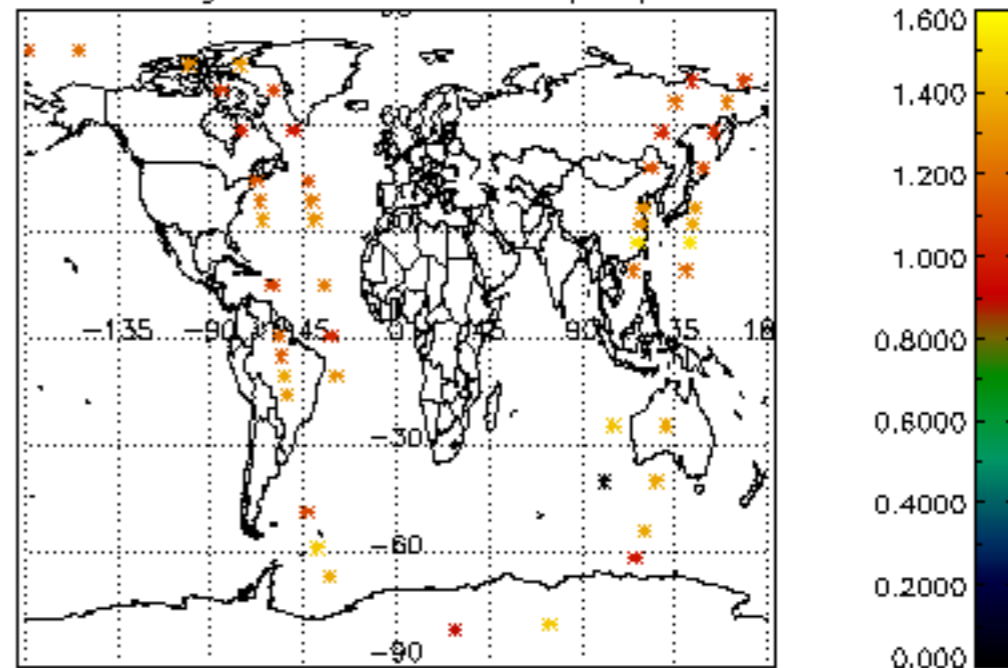




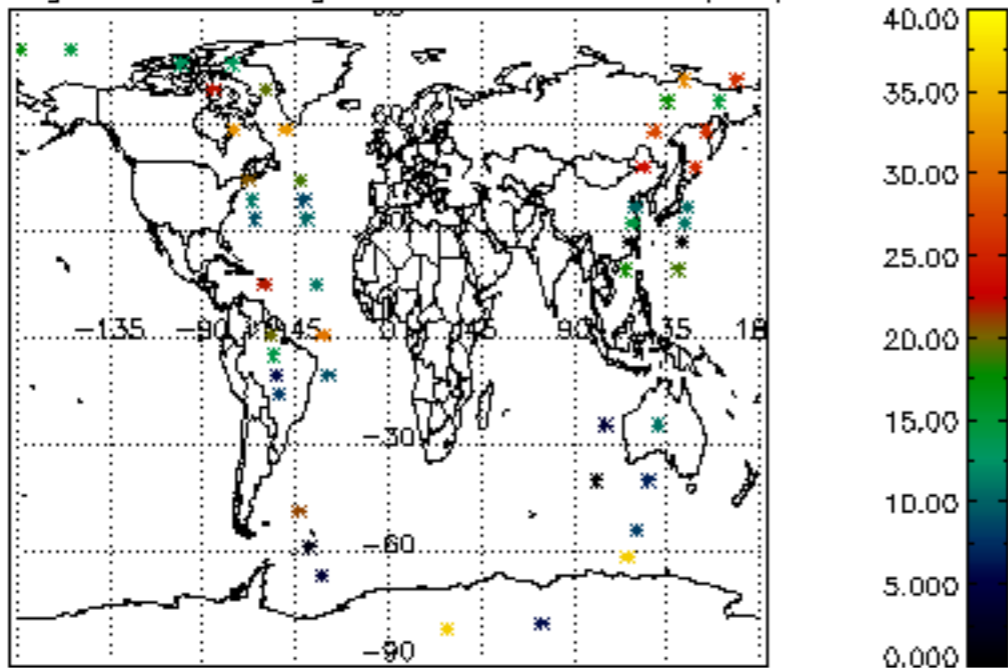
Percentage of cosmic ray hits per profile



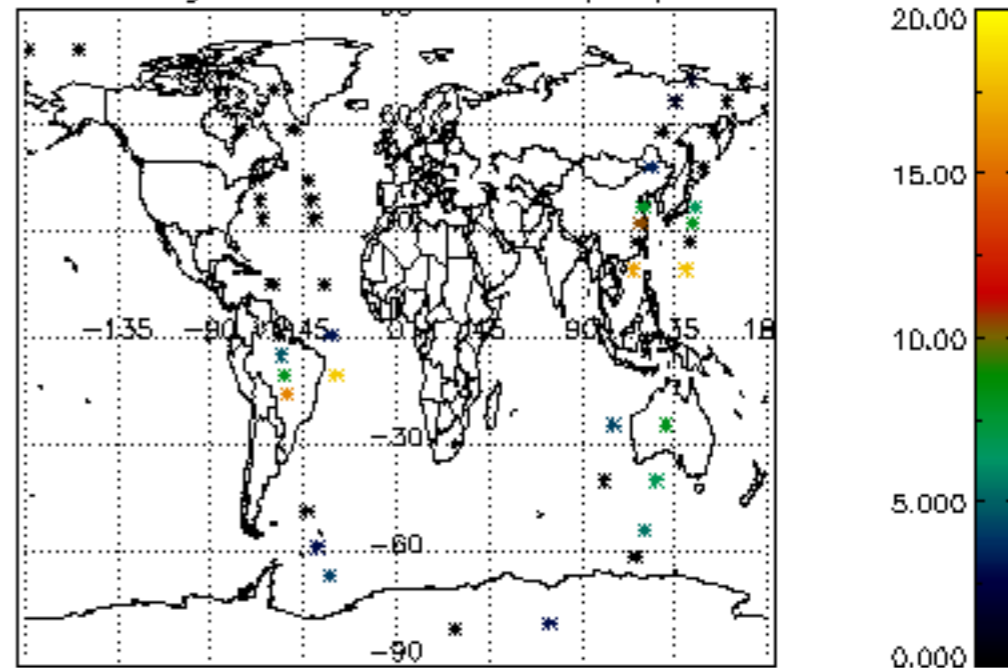
Percentage of datation errors per profile



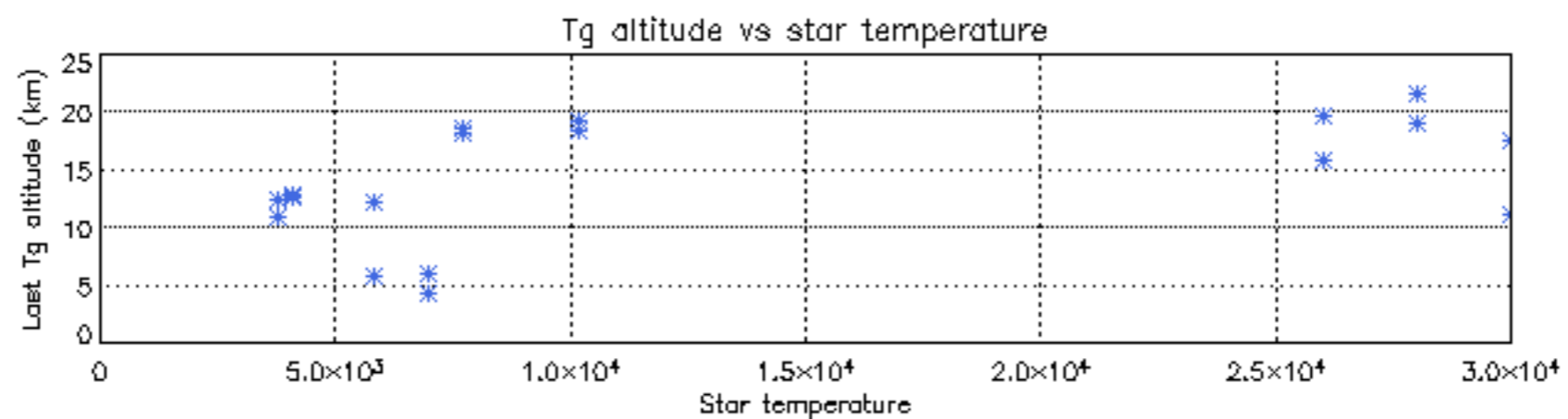
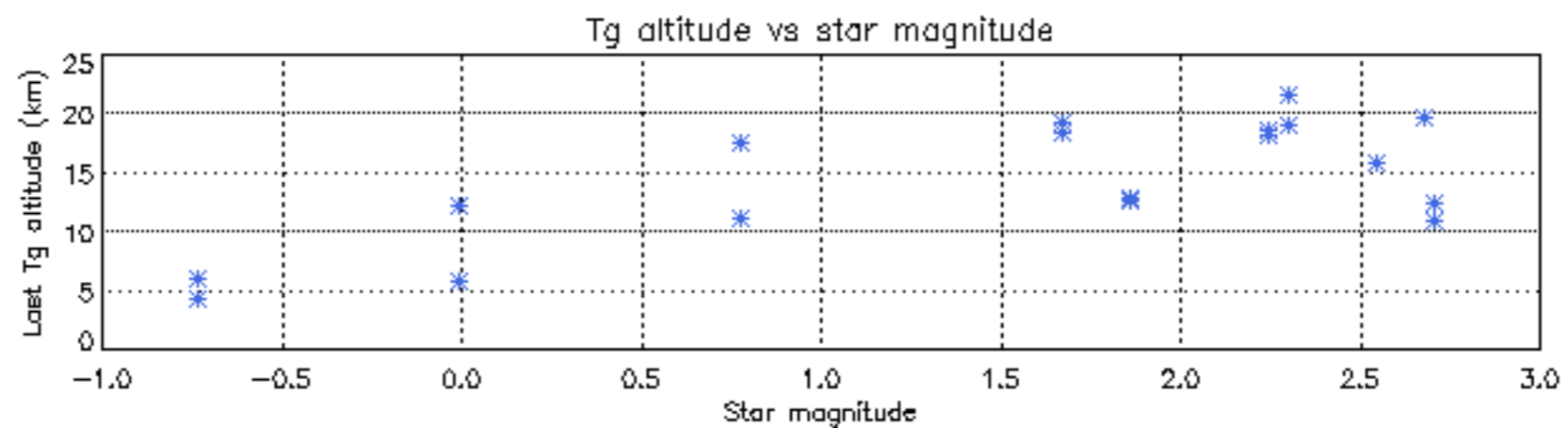
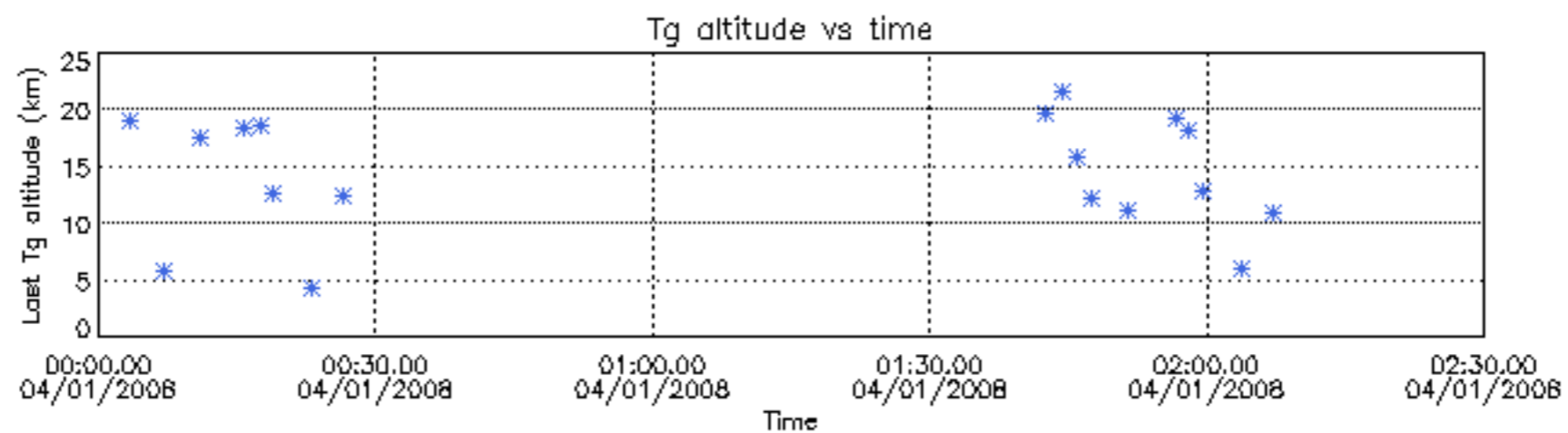
Percentage of star falling outside central band per profile



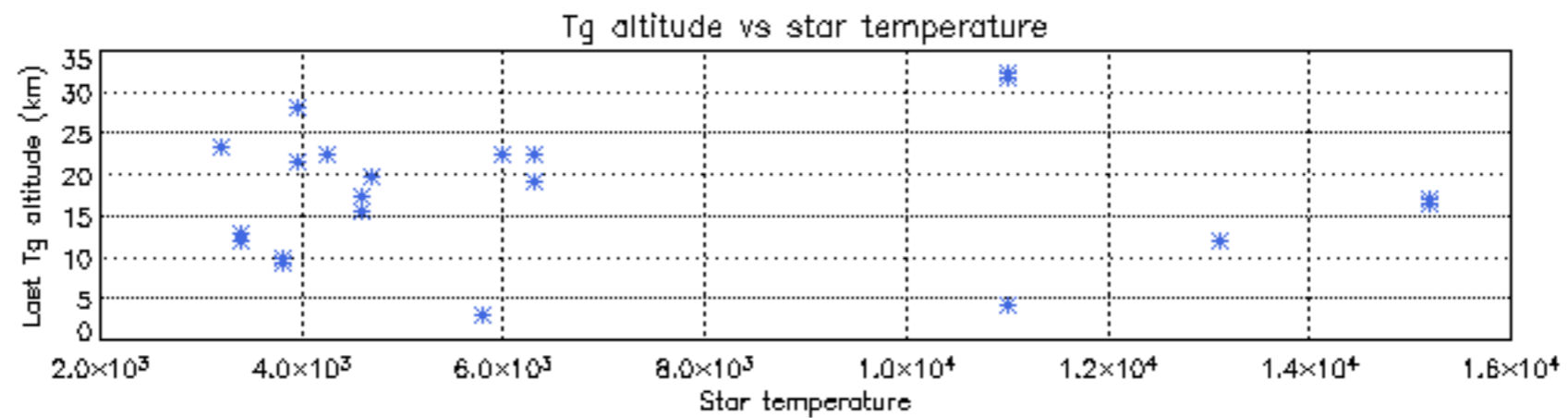
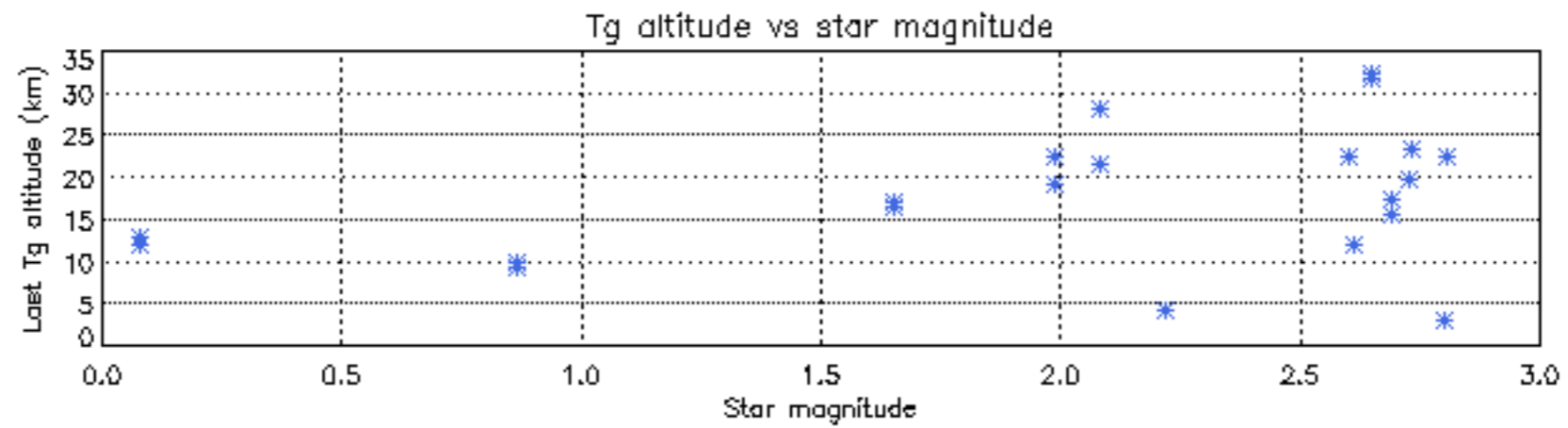
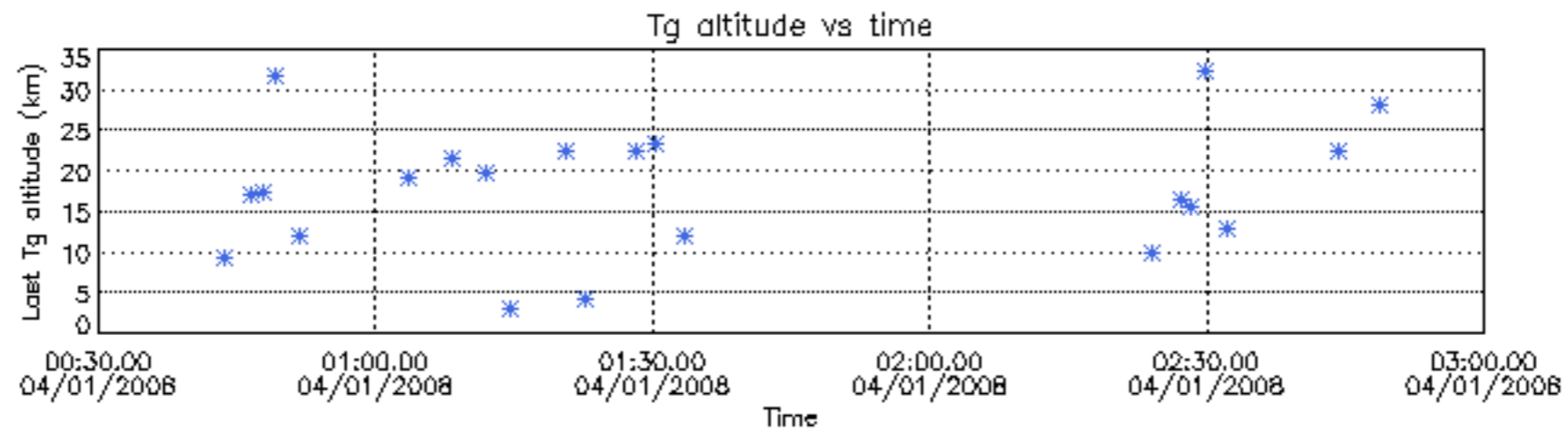
Percentage of saturation errors per profile

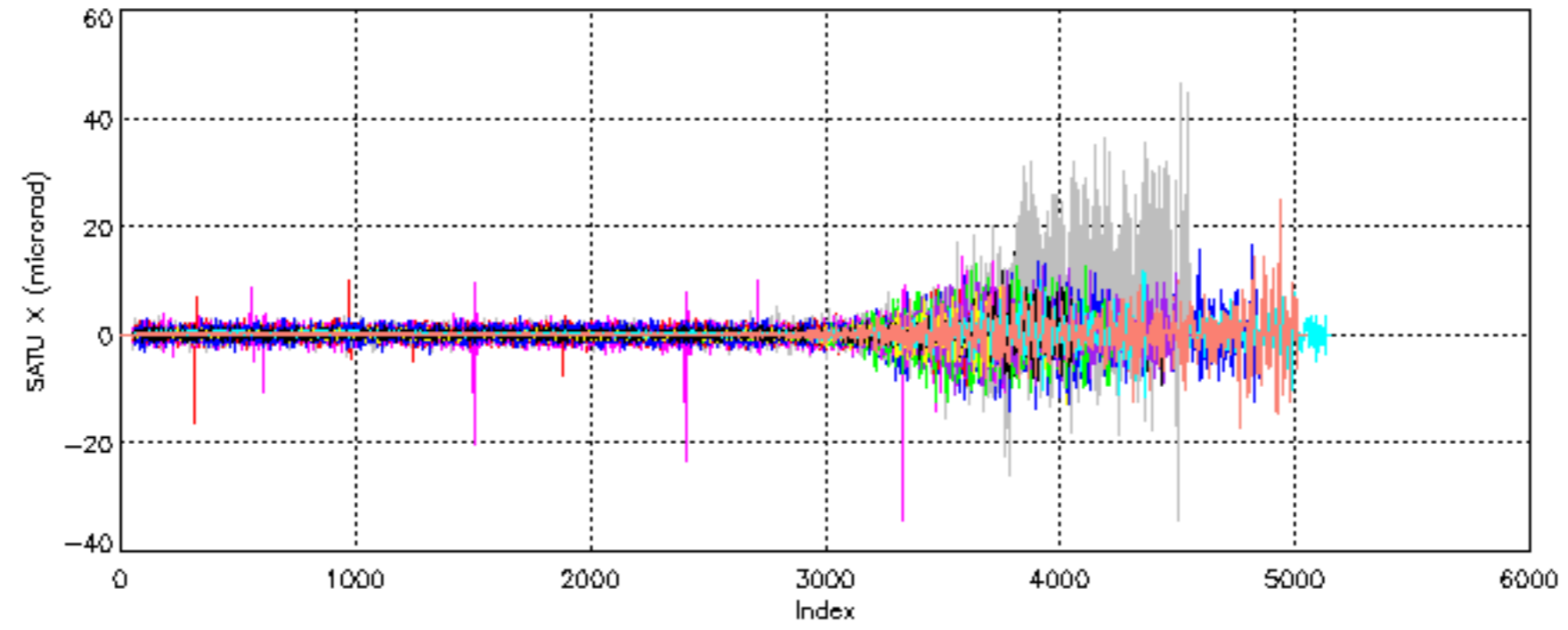


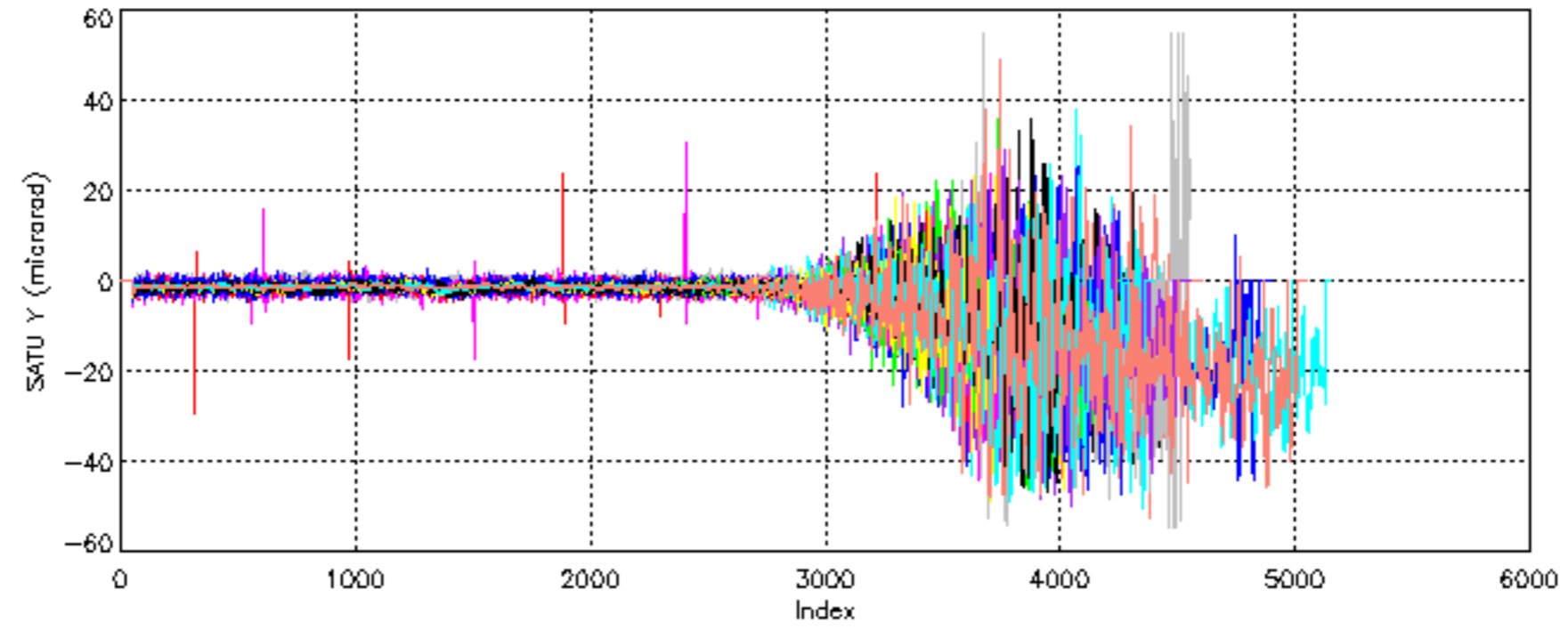
Tangent altitude at which the star is lost

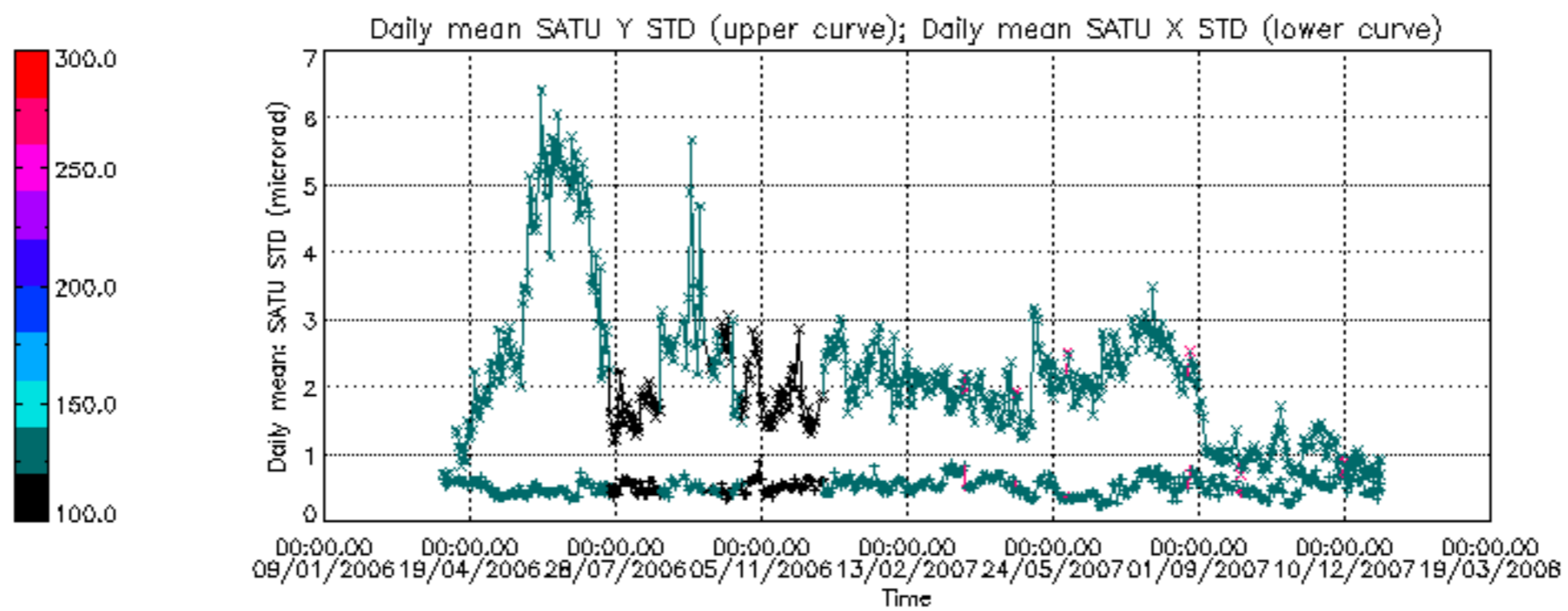


Tangent altitude at which the star is lost









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 4; 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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 10; 1319.6; 01-JAN-2008 02:02:49; Dark ; 40.0; 108; Alp Col ; 2.65; 15200;occ; 80; 0;30518
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 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
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 2; -2114.2; 01-JAN-2008 02:46:11; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30518
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 6; -1147.0; 01-JAN-2008 03:02:18; Bright; 35.5; 102; 24Alp Ser ; 2.60; 4250;occ; 71; 0;30518
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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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14; 4545.7; 01-JAN-2008 07:58:23; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;30521
15; 4889.9; 01-JAN-2008 08:04:07; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;30521
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17; 5193.2; 01-JAN-2008 08:09:10; Bright; 36.5; 104; 27Bet Lib ; 2.61; 13100;occ; 73; 0;30521
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 6; 2473.0; 02-JAN-2008 10:13:25; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30537
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 9; 3689.7; 02-JAN-2008 10:33:42; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;30537
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11; 4050.9; 02-JAN-2008 10:39:43; Bright; 46.5; 130; 23Bet Dra ; 2.80; 5800;occ; 93; 0;30537
12; 4424.2; 02-JAN-2008 10:45:56; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;30537
13; 4548.4; 02-JAN-2008 10:48:00; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;30537
14; 4894.6; 02-JAN-2008 10:53:46; Bright; 36.0; 102; 24Alp Ser ; 2.60; 4250;occ; 72; 0;30537
15; 5033.1; 02-JAN-2008 10:56:05; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;30537
16; 5200.4; 02-JAN-2008 10:58:52; Bright; 56.0; 104; 27Bet Lib ; 2.61; 13100;occ; 112; 0;30537
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21; 5941.0; 02-JAN-2008 11:11:13; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;30537
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25; 6588.3; 02-JAN-2008 11:22:00; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;30537
26; 6673.9; 02-JAN-2008 11:23:26; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;30537
27; 6767.9; 02-JAN-2008 11:25:00; Dark ; 50.5; 41; Eps Car ; 1.86; 4100;occ; 101; 0;30537
28; 7018.5; 02-JAN-2008 11:29:10; Dark ; 38.0; 2; Alp Car ;-0.74; 7000;occ; 76; 0;30537
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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 3; 1882.5; 02-JAN-2008 11:44:10; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;30538
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 5; 2203.5; 02-JAN-2008 11:49:31; Dark ; 44.5; 13; 87Alp Tau ; 0.87; 3800;occ; 89; 0;30538
 6; 2396.7; 02-JAN-2008 11:52:44; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;30538
 7; 2473.0; 02-JAN-2008 11:54:01; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;30538
 8; 2691.8; 02-JAN-2008 11:57:40; Bright; 42.0; 6; 13Alp Aur ; 0.08; 3400;occ; 84; 0;30538
 9; 3423.6; 02-JAN-2008 12:09:51; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30538
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11; 3922.6; 02-JAN-2008 12:18:10; Bright; 34.0; 119; 14Eta Dra ; 2.73; 4700;occ; 68; 0;30538
12; 4051.1; 02-JAN-2008 12:20:19; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;30538
13; 4424.4; 02-JAN-2008 12:26:32; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;30538

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 16; 5033.3; 02-JAN-2008 12:36:41; Bright; 34.0; 120; 1Del Oph ; 2.73; 3200;occ; 68; 0;30538
 17; 5200.8; 02-JAN-2008 12:39:29; Bright; 56.0; 104; 27Bet Lib ; 2.61; 13100;occ; 112; 0;30538
 18; 5681.4; 02-JAN-2008 12:47:29; Dark ; 36.5; 131; Gam Lup ; 2.80; 26000;occ; 73; 0;30538
 19; 5762.1; 02-JAN-2008 12:48:50; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30538
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 22; 6040.0; 02-JAN-2008 12:53:28; Dark ; 52.0; 4; Alp1Cen ; -0.01; 5800;occ; 104; 0;30538
 23; 6273.2; 02-JAN-2008 12:57:21; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30538
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 25; 6588.7; 02-JAN-2008 13:02:36; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;30538
 26; 6674.4; 02-JAN-2008 13:04:02; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30538
 27; 6768.4; 02-JAN-2008 13:05:36; Dark ; 41.0; 41; Eps Car ; 1.86; 4100;occ; 82; 0;30538
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 29; 7359.9; 02-JAN-2008 13:15:28; Dark ; 40.0; 108; Alp Col ; 2.65; 15200;occ; 80; 0;30538
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 13; 4424.5; 02-JAN-2008 14:07:08; Bright; 41.0; 133; 40Zet Her ; 2.81; 6000;occ; 82; 0;30539
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 16; 5033.6; 02-JAN-2008 14:17:17; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;30539
 17; 5201.5; 02-JAN-2008 14:20:05; Bright; 38.0; 104; 27Bet Lib ; 2.61; 13100;occ; 76; 0;30539
 18; 5681.8; 02-JAN-2008 14:28:05; Dark ; 38.5; 131; Gam Lup ; 2.80; 26000;occ; 77; 0;30539
 19; 5762.6; 02-JAN-2008 14:29:26; Dark ; 36.5; 109; Bet Lup ; 2.68; 26000;occ; 73; 0;30539
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 28; 7019.1; 02-JAN-2008 14:50:23; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;30539
 29; 7360.1; 02-JAN-2008 14:56:04; Dark ; 38.0; 108; Alp Col ; 2.65; 15200;occ; 76; 0;30539

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 12; 4051.5; 02-JAN-2008 15:41:31; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;30540
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 14; 4549.2; 02-JAN-2008 15:49:49; Bright; 55.0; 67; 5Alp CrB ; 2.22; 11000;occ; 110; 0;30540
 15; 4895.8; 02-JAN-2008 15:55:35; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;30540
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 19; 5779.1; 02-JAN-2008 16:10:19; Dark ; 43.0; 54; 5The Cen ; 2.06; 4500;occ; 86; 0;30540
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21; 5943.1; 02-JAN-2008 16:13:03; Dark ; 39.0; 95; Zet Cen ; 2.55; 26000;occ; 78; 0;30540
 22; 6040.8; 02-JAN-2008 16:14:40; Dark ; 52.0; 4; Alp1Cen ; -0.01; 5800;occ; 104; 0;30540
 23; 6274.3; 02-JAN-2008 16:18:34; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;30540
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 29; 7360.5; 02-JAN-2008 16:36:40; Dark ; 7.5; 108; Alp Col ; 2.65; 15200;occ; 15; 0;30540

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 22; 5943.7; 02-JAN-2008 17:53:39; Dark ; 39.5; 95; Zet Cen ; 2.55; 26000;occ; 79; 0;30541
 23; 6041.1; 02-JAN-2008 17:55:17; Dark ; 43.5; 4; Alp1Cen ; -0.01; 5800;occ; 87; 0;30541
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9; 2395.6; 03-JAN-2008 21:24:42; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30558
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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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26; 6682.1; 03-JAN-2008 12:32:33; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30552
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29; 7219.1; 03-JAN-2008 12:41:30; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 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
 6; 2396.0; 03-JAN-2008 13:01:43; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30553
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 8; 2691.0; 03-JAN-2008 13:06:38; Bright; 38.5; 6; 13Alp Aur ; 0.08; 3400;occ; 77; 0;30553
 9; 3688.2; 03-JAN-2008 13:23:15; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 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
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19; 5857.9; 03-JAN-2008 13:59:24; Dark ; 37.0; 78; Alp Lup ; 2.30; 28000;occ; 74; 0;30553

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 22; 6281.1; 03-JAN-2008 14:06:28; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30553
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 27; 6967.6; 03-JAN-2008 14:17:54; Dark ; 27.0; 34; Gam2Vel ; 1.79; 23000;occ; 54; 0;30553
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 17; 5209.0; 03-JAN-2008 15:29:11; Bright; 57.0; 104; 27Bet Lib ; 2.61; 13100;occ; 114; 0;30554
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 22; 6045.4; 03-JAN-2008 15:43:08; Dark ; 49.5; 4; Alp1Cen ; -0.01; 5800;occ; 99; 0;30554
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 5; 2031.9; 03-JAN-2008 16:16:50; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;30555
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 11; 3687.9; 03-JAN-2008 16:44:26; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;30555
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 19; 5687.2; 03-JAN-2008 17:17:46; Dark ; 36.0; 131; Gam Lup ; 2.80; 26000;occ; 72; 0;30555
 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
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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
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10; 2473.9; 03-JAN-2008 18:04:48; Bright; 38.0; 114; 3Iot Aur ; 2.69; 4600;occ; 76; 0;30556
11; 2690.6; 03-JAN-2008 18:08:25; Bright; 41.0; 6; 13Alp Aur ; 0.08; 3400;occ; 82; 0;30556
12; 3423.7; 03-JAN-2008 18:20:38; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30556
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16; 4427.2; 03-JAN-2008 18:37:22; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 0;30556
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19; 5038.0; 03-JAN-2008 18:47:33; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;30556
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16; 4427.3; 03-JAN-2008 20:17:58; Bright; 42.5; 133; 40Zet Her ; 2.81; 6000;occ; 85; 0;30557
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4; 10.6; 03-JAN-2008 22:25:33; Dark ; 52.5; 4; Alp1Cen ; -0.01; 5800;occ; 105; 0;30559
5; 247.6; 03-JAN-2008 22:29:30; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;30559
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28; 5038.7; 03-JAN-2008 23:49:21; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;30559
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17; 2395.5; 04-JAN-2008 00:45:54; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30560
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19; 2559.1; 04-JAN-2008 00:48:37; Bright; 33.0; 107; 37The Aur ; 2.65; 11000;occ; 66; 0;30560
20; 2690.4; 04-JAN-2008 00:50:49; Bright; 42.0; 6; 13Alp Aur ; 0.08; 3400;occ; 84; 0;30560
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26; 4552.6; 04-JAN-2008 01:21:51; Bright; 56.0; 67; 5Alp CrB ; 2.22; 11000;occ; 112; 0;30560
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28; 5038.9; 04-JAN-2008 01:29:57; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;30560
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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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3; 1884.6; 04-JAN-2008 10:40:58; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;30566
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
11; 3686.6; 04-JAN-2008 11:11:00; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30566
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13; 4055.8; 04-JAN-2008 11:17:10; Bright; 34.0; 130; 23Bet Dra ; 2.80; 5800;occ; 68; 0;30566
14; 4428.8; 04-JAN-2008 11:23:23; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;30566
15; 4553.9; 04-JAN-2008 11:25:28; Bright; 37.5; 67; 5Alp CrB ; 2.22; 11000;occ; 75; 0;30566
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21; 5690.7; 04-JAN-2008 11:44:25; Dark ; 36.0; 131; Gam Lup ; 2.80; 26000;occ; 72; 0;30566
22; 5775.1; 04-JAN-2008 11:45:49; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30566
23; 5864.1; 04-JAN-2008 11:47:18; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;30566
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
27; 6448.1; 04-JAN-2008 11:57:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30566
28; 6598.7; 04-JAN-2008 11:59:33; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;30566
29; 6689.3; 04-JAN-2008 12:01:03; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30566
30; 6780.4; 04-JAN-2008 12:02:34; Dark ; 50.0; 41; Eps Car ; 1.86; 4100;occ; 100; 0;30566
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32; 7223.8; 04-JAN-2008 12:09:58; Dark ; 43.5; 117; Pi Pup ; 2.71; 3800;occ; 87; 0;30566
33; 7388.2; 04-JAN-2008 12:12:42; Dark ; 35.0; 23; 21Eps CMA ; 1.50; 26000;occ; 70; 0;30566
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6; 2395.4; 04-JAN-2008 12:30:05; Bright; 36.0; 28; 12Bet Tau ; 1.65; 15200;occ; 72; 0;30567
7; 2474.8; 04-JAN-2008 12:31:24; Bright; 35.5; 114; 3Iot Aur ; 2.69; 4600;occ; 71; 0;30567
8; 2557.8; 04-JAN-2008 12:32:47; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;30567
9; 2690.2; 04-JAN-2008 12:35:00; Bright; 37.5; 6; 13Alp Aur ; 0.08; 3400;occ; 75; 0;30567
10; 3423.8; 04-JAN-2008 12:47:13; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;30567
11; 3686.6; 04-JAN-2008 12:51:36; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;30567
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
16; 4904.3; 04-JAN-2008 13:11:54; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;30567
17; 5041.0; 04-JAN-2008 13:14:11; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;30567
18; 5215.1; 04-JAN-2008 13:17:05; Bright; 39.0; 104; 27Bet Lib ; 2.61; 13100;occ; 78; 0;30567
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3; -344.8; 04-JAN-2008 13:25:01; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;30567
4; -260.4; 04-JAN-2008 13:26:25; Dark ; 37.5; 109; Bet Lup ; 2.68; 26000;occ; 75; 0;30567
5; -171.1; 04-JAN-2008 13:27:54; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;30567
6; -75.4; 04-JAN-2008 13:29:30; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;30567
7; 13.9; 04-JAN-2008 13:30:59; Dark ; 46.0; 4; Alp1Cen ; -0.01; 5800;occ; 92; 0;30568
8; 252.4; 04-JAN-2008 13:34:58; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30568
9; 412.5; 04-JAN-2008 13:37:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30568
10; 563.3; 04-JAN-2008 13:40:09; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30568
11; 654.1; 04-JAN-2008 13:41:40; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30568
12; 745.0; 04-JAN-2008 13:43:11; Dark ; 39.0; 41; Eps Car ; 1.86; 4100;occ; 78; 0;30568
13; 990.3; 04-JAN-2008 13:47:16; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;30568
14; 1188.4; 04-JAN-2008 13:50:34; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;30568
15; 1352.7; 04-JAN-2008 13:53:18; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;30568
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4; 2031.5; 04-JAN-2008 14:04:37; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;30568
5; 2209.0; 04-JAN-2008 14:07:35; Bright; 43.0; 13; 87Alp Tau ; 0.87; 3800;occ; 86; 0;30568
6; 2395.5; 04-JAN-2008 14:10:41; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30568
7; 2474.9; 04-JAN-2008 14:12:00; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30568
8; 2557.6; 04-JAN-2008 14:13:23; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;30568
9; 2690.2; 04-JAN-2008 14:15:36; Bright; 41.0; 6; 13Alp Aur ; 0.08; 3400;occ; 82; 0;30568
10; 3423.9; 04-JAN-2008 14:27:49; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;30568
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13; 4056.2; 04-JAN-2008 14:38:22; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;30568
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15; 4554.3; 04-JAN-2008 14:46:40; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;30568
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19; 5315.2; 04-JAN-2008 14:59:21; Bright; 52.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 104; 0;30568
20; 5424.8; 04-JAN-2008 15:01:10; Dark ; 38.5; 158; 6Pi Sco ; 2.91; 28000;occ; 77; 0;30568
21; 5691.5; 04-JAN-2008 15:05:37; Dark ; 39.0; 131; Gam Lup ; 2.80; 26000;occ; 78; 0;30568
22; 5776.1; 04-JAN-2008 15:07:02; Dark ; 37.5; 109; Bet Lup ; 2.68; 26000;occ; 75; 0;30568
23; 5865.2; 04-JAN-2008 15:08:31; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;30568
24; 5961.2; 04-JAN-2008 15:10:07; Dark ; 39.5; 95; Zet Cen ; 2.55; 26000;occ; 79; 0;30568
25; 6050.1; 04-JAN-2008 15:11:36; Dark ; 45.0; 4; Alp1Cen ; -0.01; 5800;occ; 90; 0;30568
26; 6288.8; 04-JAN-2008 15:15:34; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;30568
27; 6448.8; 04-JAN-2008 15:18:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30568
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29; 6690.5; 04-JAN-2008 15:22:16; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30568
30; 6781.4; 04-JAN-2008 15:23:47; Dark ; 40.5; 41; Eps Car ; 1.86; 4100;occ; 81; 0;30568
31; 7026.4; 04-JAN-2008 15:27:52; Dark ; 46.0; 2; Alp Car ; -0.74; 7000;occ; 92; 0;30568
32; 7224.6; 04-JAN-2008 15:31:10; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;30568
33; 7388.8; 04-JAN-2008 15:33:54; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;30568

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7; 2395.4; 04-JAN-2008 15:51:17; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30569
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22; 5691.9; 04-JAN-2008 16:46:13; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;30569
23; 5776.5; 04-JAN-2008 16:47:38; Dark ; 37.5; 109; Bet Lup ; 2.68; 26000;occ; 75; 0;30569
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26; 6050.5; 04-JAN-2008 16:52:12; Dark ; 53.0; 4; Alp1Cen ; -0.01; 5800;occ; 106; 0;30569
27; 6289.4; 04-JAN-2008 16:56:11; Dark ; 42.0; 12; Alp1Cru ; 0.77; 30000;occ; 84; 0;30569
28; 6449.1; 04-JAN-2008 16:58:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30569
29; 6599.9; 04-JAN-2008 17:01:21; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;30569
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31; 6781.9; 04-JAN-2008 17:04:23; Dark ; 39.5; 41; Eps Car ; 1.86; 4100;occ; 79; 0;30569
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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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19; 5042.0; 04-JAN-2008 18:16:00; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;30570
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22; 5692.2; 04-JAN-2008 18:26:50; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30570
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30; 2475.5; 05-JAN-2008 06:58:01; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30578
31; 2555.6; 05-JAN-2008 06:59:21; Bright; 37.0; 107; 37The Aur ; 2.65; 11000;occ; 74; 0;30578
32; 2689.8; 05-JAN-2008 07:01:35; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30578
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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5; 1778.5; 05-JAN-2008 20:11:11; Dark ; 42.5; 7; 19Bet Ori ; 0.10; 14000;occ; 85; 0;30586
6; 1886.4; 05-JAN-2008 20:12:59; Dark ; 39.0; 30; 46Eps Ori ; 1.69; 30000;occ; 78; 0;30586
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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
10; 2476.2; 05-JAN-2008 20:22:49; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30586
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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 14; 3684.2; 05-JAN-2008 20:42:57; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;30586
 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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 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
 10; 569.6; 05-JAN-2008 21:31:38; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 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
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 15; 1357.3; 05-JAN-2008 21:44:46; Dark ; 46.5; 23; 21Eps CMa ; 1.50; 26000;occ; 93; 0;30587
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 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
 24; 2689.4; 05-JAN-2008 22:06:58; Bright; 52.0; 6; 13Alp Aur ; 0.08; 3400;occ; 104; 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
 28; 4058.9; 05-JAN-2008 22:29:47; Bright; 33.0; 130; 23Bet Dra ; 2.80; 5800;occ; 66; 0;30587
 29; 4431.8; 05-JAN-2008 22:36:00; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 0;30587
 30; 4610.0; 05-JAN-2008 22:38:58; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;30587
 31; 4911.0; 05-JAN-2008 22:43:59; Bright; 38.5; 102; 24Alp Ser ; 2.60; 4250;occ; 77; 0;30587
 32; 5046.5; 05-JAN-2008 22:46:15; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;30587
 33; 5372.6; 05-JAN-2008 22:51:41; Dark ; 42.0; 80; 7Del Sco ; 2.32; 30000;occ; 84; 0;30587

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 3; -1978.3; 05-JAN-2008 07:24:23; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;30578
 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
 10; -608.1; 05-JAN-2008 07:47:13; Dark ; 39.5; 158; 6Pi Sco ; 2.91; 28000;occ; 79; 0;30578
 11; -340.9; 05-JAN-2008 07:51:40; Dark ; 39.0; 131; Gam Lup ; 2.80; 26000;occ; 78; 0;30578
 12; -255.2; 05-JAN-2008 07:53:06; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;30578
 13; -165.8; 05-JAN-2008 07:54:35; Dark ; 40.5; 78; Alp Lup ; 2.30; 28000;occ; 81; 0;30578
 14; -68.2; 05-JAN-2008 07:56:13; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 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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 3; 2031.3; 05-JAN-2008 10:11:48; Dark ; 47.0; 14; 58Alp Ori ; 0.87; 3000;occ; 94; 0;30580
 4; 2211.3; 05-JAN-2008 10:14:48; Bright; 49.5; 13; 87Alp Tau ; 0.87; 3800;occ; 99; 0;30580
 5; 2395.1; 05-JAN-2008 10:17:52; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;30580
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 8; 2689.7; 05-JAN-2008 10:22:47; Bright; 39.0; 6; 13Alp Aur ; 0.08; 3400;occ; 78; 0;30580
 9; 3423.9; 05-JAN-2008 10:35:01; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30580
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 11; 3924.0; 05-JAN-2008 10:43:21; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30580
 12; 4057.9; 05-JAN-2008 10:45:35; Bright; 50.5; 130; 23Bet Dra ; 2.80; 5800;occ; 101; 0;30580
 13; 4431.0; 05-JAN-2008 10:51:48; Bright; 47.0; 133; 40Zet Her ; 2.81; 6000;occ; 94; 0;30580
 14; 4608.9; 05-JAN-2008 10:54:46; Bright; 34.0; 127; 27Bet Her ; 2.78; 4700;occ; 68; 0;30580
 15; 4908.5; 05-JAN-2008 10:59:45; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;30580
 16; 5044.6; 05-JAN-2008 11:02:02; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;30580
 17; 5221.7; 05-JAN-2008 11:04:59; Bright; 43.0; 104; 27Bet Lib ; 2.61; 13100;occ; 86; 0;30580
 18; 5318.8; 05-JAN-2008 11:06:36; Bright; 43.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 87; 0;30580
 19; 5428.4; 05-JAN-2008 11:08:25; Dark ; 37.5; 158; 6Pi Sco ; 2.91; 28000;occ; 75; 0;30580
 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
 25; 6295.0; 05-JAN-2008 11:22:52; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30580
 26; 6452.1; 05-JAN-2008 11:25:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30580
 27; 6603.6; 05-JAN-2008 11:28:00; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30580
 28; 6696.6; 05-JAN-2008 11:29:33; Dark ; 44.5; 71; Iot Car ; 2.25; 7700;occ; 89; 0;30580
 29; 6786.3; 05-JAN-2008 11:31:03; Dark ; 48.5; 41; Eps Car ; 1.86; 4100;occ; 97; 0;30580
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 31; 7228.7; 05-JAN-2008 11:38:26; Dark ; 48.5; 117; Pi Pup ; 2.71; 3800;occ; 97; 0;30580
 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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 4; 2031.2; 05-JAN-2008 11:52:24; Dark ; 44.0; 14; 58Alp Ori ; 0.87; 3000;occ; 88; 0;30581
 5; 2211.5; 05-JAN-2008 11:55:24; Bright; 42.5; 13; 87Alp Tau ; 0.87; 3800;occ; 85; 0;30581
 6; 2395.2; 05-JAN-2008 11:58:28; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30581
 7; 2475.8; 05-JAN-2008 11:59:49; Bright; 36.0; 114; 3Iot Aur ; 2.69; 4600;occ; 72; 0;30581
 8; 2555.0; 05-JAN-2008 12:01:08; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;30581
 9; 2689.6; 05-JAN-2008 12:03:22; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30581
 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
 12; 3924.0; 05-JAN-2008 12:23:57; Bright; 11.5; 119; 14Eta Dra ; 2.73; 4700;occ; 23; 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
 8; -716.7; 05-JAN-2008 12:47:12; Bright; 18.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 36; 0;30581

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 4; -253.7; 05-JAN-2008 12:54:55; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;30581
 5; -164.3; 05-JAN-2008 12:56:24; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;30581
 6; -66.2; 05-JAN-2008 12:58:02; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;30581
 7; 18.6; 05-JAN-2008 12:59:27; Dark ; 45.5; 4; Alp1Cen ; -0.01; 5800;occ; 91; 0;30582
 8; 259.6; 05-JAN-2008 13:03:28; Dark ; 39.0; 12; Alp1Cru ; 0.77; 30000;occ; 78; 0;30582
 9; 416.6; 05-JAN-2008 13:06:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30582
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 11; 661.2; 05-JAN-2008 13:10:10; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30582

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14; 1193.1; 05-JAN-2008 13:19:02; Dark ; 48.5; 117; Pi Pup ; 2.71; 3800;occ; 97; 0;30582
15; 1356.2; 05-JAN-2008 13:21:45; Dark ; 34.5; 23; 21Eps CMa ; 1.50; 26000;occ; 69; 0;30582
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 2; 1778.2; 05-JAN-2008 13:28:47; Dark ; 49.0; 7; 19Bet Ori ; 0.10; 14000;occ; 98; 0;30582
 3; 1886.0; 05-JAN-2008 13:30:35; Dark ; 39.0; 30; 46Eps Ori ; 1.69; 30000;occ; 78; 0;30582
 4; 2031.3; 05-JAN-2008 13:33:00; Dark ; 44.5; 14; 58Alp Ori ; 0.87; 3000;occ; 89; 0;30582
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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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4; 2268.0; 07-JAN-2008 10:53:07; Bright; 36.5; 176; 23Zet Tau ; 3.02; 22000;occ; 73; 0;30609
5; 2395.1; 07-JAN-2008 10:55:14; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;30609
6; 2478.6; 07-JAN-2008 10:56:37; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30609
7; 2689.4; 07-JAN-2008 11:00:08; Bright; 39.0; 6; 13Alp Aur ; 0.08; 3400;occ; 78; 0;30609
8; 3424.1; 07-JAN-2008 11:12:23; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;30609
9; 3681.4; 07-JAN-2008 11:16:40; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;30609
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11; 4062.3; 07-JAN-2008 11:23:01; Bright; 52.0; 130; 23Bet Dra ; 2.80; 5800;occ; 104; 0;30609
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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
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18; 5796.4; 07-JAN-2008 11:51:55; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30609
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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
10; 3681.3; 07-JAN-2008 12:57:16; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;30610
11; 3924.6; 07-JAN-2008 13:01:19; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;30610
12; 4062.5; 07-JAN-2008 13:03:37; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;30610
13; 4435.7; 07-JAN-2008 13:09:50; Bright; 33.5; 133; 40Zet Her ; 2.81; 6000;occ; 67; 0;30610

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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
 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
 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
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 9; 3424.2; 07-JAN-2008 14:33:35; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;30611
 10; 3681.2; 07-JAN-2008 14:37:52; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;30611
 11; 3924.6; 07-JAN-2008 14:41:55; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30611
 12; 4062.8; 07-JAN-2008 14:44:13; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;30611
 13; 4436.0; 07-JAN-2008 14:50:27; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;30611
 14; 4615.0; 07-JAN-2008 14:53:26; Bright; 41.5; 127; 27Bet Her ; 2.78; 4700;occ; 83; 0;30611
 15; 4919.7; 07-JAN-2008 14:58:30; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;30611
 16; 5053.9; 07-JAN-2008 15:00:45; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;30611
 17; 5381.4; 07-JAN-2008 15:06:12; Dark ; 40.0; 80; 7Del Sco ; 2.32; 30000;occ; 80; 0;30611
 18; 5707.7; 07-JAN-2008 15:11:38; Dark ; 36.5; 131; Gam Lup ; 2.80; 26000;occ; 73; 0;30611
 19; 5797.5; 07-JAN-2008 15:13:08; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30611
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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
 22; 6311.5; 07-JAN-2008 15:21:42; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;30611
 23; 6461.1; 07-JAN-2008 15:24:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30611
 24; 6614.4; 07-JAN-2008 15:26:45; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30611
 25; 6712.5; 07-JAN-2008 15:28:23; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30611
 26; 6799.1; 07-JAN-2008 15:29:50; Dark ; 47.5; 41; Eps Car ; 1.86; 4100;occ; 95; 0;30611
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 28; 7238.7; 07-JAN-2008 15:37:09; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;30611
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 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
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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
 14; 4436.3; 07-JAN-2008 16:31:03; Bright; 50.5; 133; 40Zet Her ; 2.81; 6000;occ; 101; 0;30612
 15; 4615.1; 07-JAN-2008 16:34:02; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;30612
 16; 4920.1; 07-JAN-2008 16:39:07; Bright; 38.0; 102; 24Alp Ser ; 2.60; 4250;occ; 76; 0;30612
 17; 5054.3; 07-JAN-2008 16:41:21; Bright; 35.5; 120; 1Del Oph ; 2.73; 3200;occ; 71; 0;30612
 18; 5381.8; 07-JAN-2008 16:46:48; Dark ; 42.5; 80; 7Del Sco ; 2.32; 30000;occ; 85; 0;30612
 19; 5708.2; 07-JAN-2008 16:52:15; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30612
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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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13; 3924.7; 07-JAN-2008 18:03:07; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30613
14; 4063.0; 07-JAN-2008 18:05:26; Bright; 34.0; 130; 23Bet Dra ; 2.80; 5800;occ; 68; 0;30613
15; 4436.3; 07-JAN-2008 18:11:39; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;30613
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
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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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21; 5798.6; 07-JAN-2008 18:34:21; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;30613
22; 5888.5; 07-JAN-2008 18:35:51; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;30613
23; 6066.2; 07-JAN-2008 18:38:49; Dark ; 41.0; 4; Alp1Cen ; -0.01; 5800;occ; 82; 0;30613
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25; 6461.7; 07-JAN-2008 18:45:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30613
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27; 6713.5; 07-JAN-2008 18:49:36; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30613
28; 6800.0; 07-JAN-2008 18:51:03; Dark ; 43.0; 41; Eps Car ; 1.86; 4100;occ; 86; 0;30613
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4; 1582.5; 07-JAN-2008 19:04:41; Dark ; 42.0; 47; 2Bet CMA ; 1.98; 28000;occ; 84; 0;30614
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6; 1889.2; 07-JAN-2008 19:09:48; Dark ; 39.0; 30; 46Eps Ori ; 1.69; 30000;occ; 78; 0;30614
7; 2031.5; 07-JAN-2008 19:12:10; Dark ; 52.0; 14; 58Alp Ori ; 0.87; 3000;occ; 104; 0;30614
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 13; 3424.5; 10-JAN-2008 19:41:08; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;30657
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 16; 4068.8; 10-JAN-2008 19:51:52; Bright; 34.0; 130; 23Bet Dra ; 2.80; 5800;occ; 68; 0;30657
 17; 4442.7; 10-JAN-2008 19:58:06; Bright; 43.5; 133; 40Zet Her ; 2.81; 6000;occ; 87; 0;30657
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 22; 5423.0; 10-JAN-2008 20:14:26; Dark ; 49.0; 16; 21Alp Sco ; 1.02; 3000;occ; 98; 0;30657
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 27; 6295.8; 10-JAN-2008 20:28:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30657
 28; 6535.3; 10-JAN-2008 20:32:59; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;30657
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 23; 2676.8; 11-JAN-2008 00:30:28; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;30660
 24; 3424.6; 11-JAN-2008 00:42:56; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;30660
 25; 3674.5; 11-JAN-2008 00:47:06; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;30660

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28; 4443.3; 11-JAN-2008 00:59:55; Bright; 53.0; 133; 40Zet Her ; 2.81; 6000;occ; 106; 0;30660
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31; 5157.3; 11-JAN-2008 01:11:49; Bright; 35.5; 98; 13Zet Oph ; 2.57; 30000;occ; 71; 0;30660
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10; 2677.4; 10-JAN-2008 16:07:29; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;30655
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12; 3675.2; 10-JAN-2008 16:24:07; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;30655
13; 3924.5; 10-JAN-2008 16:28:16; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;30655
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17; 5068.6; 10-JAN-2008 16:47:20; Bright; 36.5; 120; 1Del Oph ; 2.73; 3200;occ; 73; 0;30655
18; 5156.0; 10-JAN-2008 16:48:48; Bright; 52.0; 98; 13Zet Oph ; 2.57; 30000;occ; 104; 0;30655
19; 5345.8; 10-JAN-2008 16:51:57; Dark ; 40.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 80; 0;30655
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21; 5726.0; 10-JAN-2008 16:58:17; Dark ; 39.5; 131; Gam Lup ; 2.80; 26000;occ; 79; 0;30655
22; 5821.5; 10-JAN-2008 16:59:53; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;30655
23; 5911.9; 10-JAN-2008 17:01:23; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;30655
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28; 6734.0; 10-JAN-2008 17:15:06; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30655
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13; 1462.1; 11-JAN-2008 01:50:49; Dark ; 41.0; 179; 240mi2CMA ; 3.03; 24000;occ; 82; 0;30661
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 22; 6451.9; 25-JAN-2008 12:37:20; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30867
 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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 12; 4086.0; 25-JAN-2008 16:59:42; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;30870
 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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 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
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 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
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 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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 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
 21; 5682.0; 25-JAN-2008 19:06:54; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 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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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
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27; 2682.3; 28-JAN-2008 04:57:51; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;30906
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3; 1514.8; 31-JAN-2008 16:28:20; Dark ; 38.5; 179; 240mi2CMa ; 3.03; 24000;occ; 77; 0;30956
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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
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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
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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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