

GOMOS Daily Report 23-JAN-2008

Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	28JAN2008 11:17:53
Data source version	GOMOS/5.00
Start time of products	23-01-2008 (23JAN2008 00:00:00)
Stop time of products	24-01-2008 (24JAN2008 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)

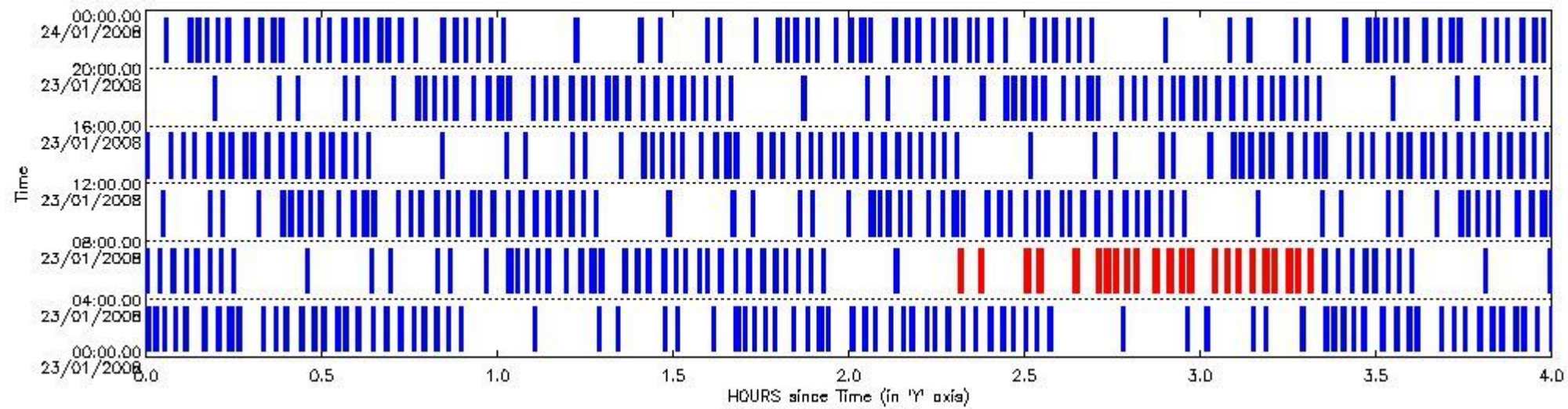
2.1 Level 0 products arrived in PCF (see template [here](#))

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
23-JAN-2008 06:18:41	23BetDra	130	30835
23-JAN-2008 06:22:01	3AlpLyr	5	30835
23-JAN-2008 06:30:00	55AlpOph	59	30835
23-JAN-2008 06:32:07	60BetOph	126	30835
23-JAN-2008 06:38:16	35EtaOph	86	30835
23-JAN-2008 06:42:10	21AlpSco	16	30835
23-JAN-2008 06:43:40	26EpsSco	75	30835
23-JAN-2008 06:45:12	TheSco	40	30835
23-JAN-2008 06:47:08	AlpAra	147	30835
23-JAN-2008 06:48:43	BetAra	141	30835
23-JAN-2008 06:51:59	BetTrA	134	30836
23-JAN-2008 06:54:23	BetCen	10	30836
23-JAN-2008 06:56:20	DSA1028	0	30836
23-JAN-2008 06:57:51	Alp1Cru	12	30836
23-JAN-2008 07:02:01	BetCar	29	30836

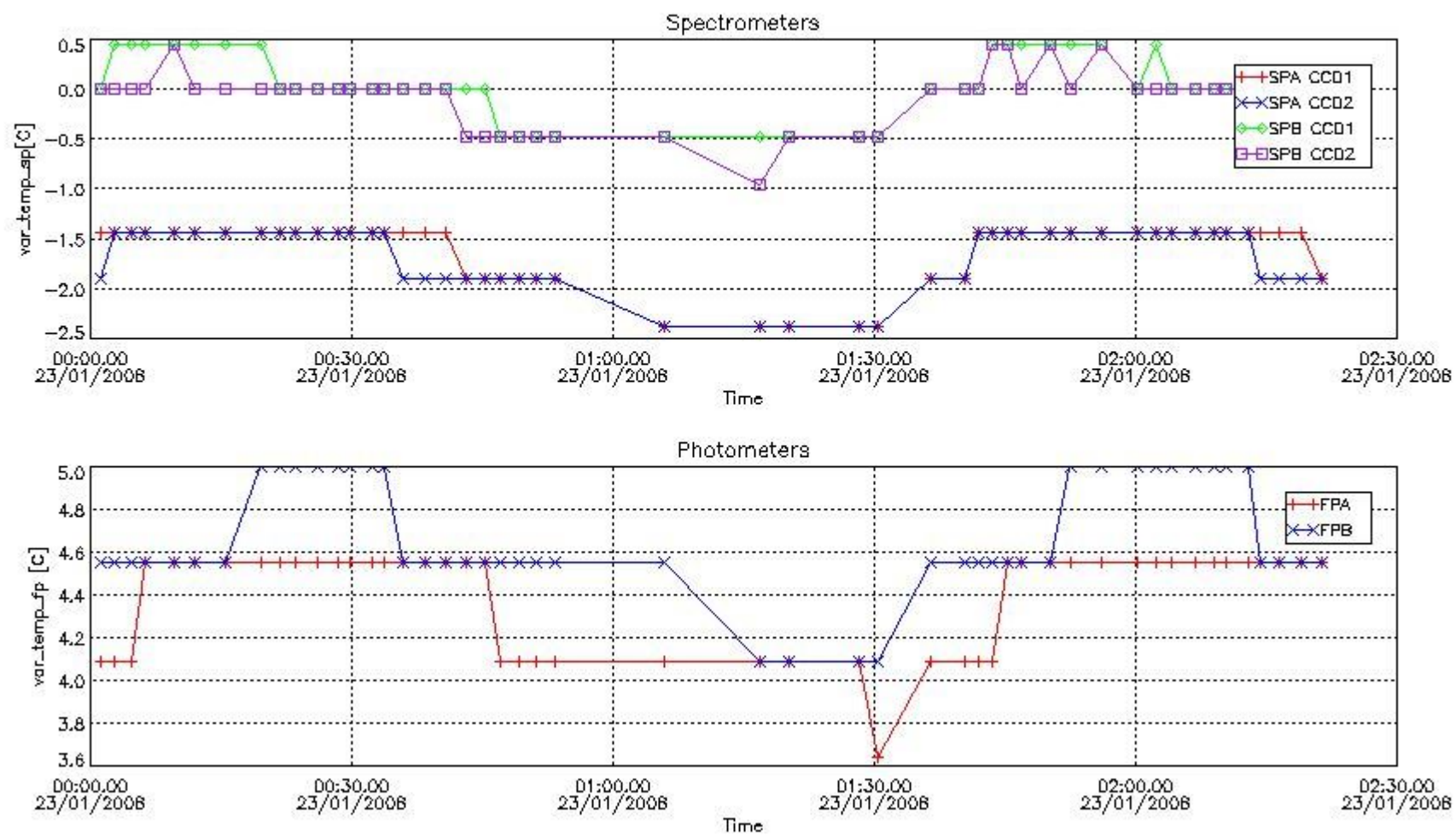
23-JAN-2008 07:04:09	lotCar	71	30836
23-JAN-2008 07:05:58	DelVel	46	30836
23-JAN-2008 07:08:33	AlpCar	2	30836
23-JAN-2008 07:10:43	ZetPup	70	30836
23-JAN-2008 07:12:15	PiPup	117	30836
23-JAN-2008 07:14:44	21EpsCMa	23	30836
23-JAN-2008 07:16:07	24Omi2CMa	179	30836
23-JAN-2008 07:18:17	9AlpCMa	1	30836

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_1PNPDE20080123_000116_000000412065_00216_30831_8039.N1	23-JAN-2008 00:01:16	Twilight	40.500	75	26Eps Sco	2.2910	4250.0	81	30831	No
2	GOM_TRA_1PNPDE20080123_000249_000000382065_00216_30831_8040.N1	23-JAN-2008 00:02:49	Dark	37.500	40	The Sco	1.8590	7100.0	75	30831	No
3	GOM_TRA_1PNPDE20080123_000445_000000372065_00216_30831_8041.N1	23-JAN-2008 00:04:45	Dark	37.000	147	Alp Ara	2.8770	26000.	74	30831	No
4	GOM_TRA_1PNPDE20080123_000620_000000402065_00216_30831_8042.N1	23-JAN-2008 00:06:20	Dark	40.000	141	Bet Ara	2.8400	4600.0	80	30831	No
5	GOM_TRA_1PNPDE20080123_000936_000000372065_00217_30832_8043.N1	23-JAN-2008 00:09:36	Dark	36.500	134	Bet TrA	2.8100	6600.0	73	30832	No
6	GOM_TRA_1PNPDE20080123_001159_000000402065_00217_30832_8044.N1	23-JAN-2008 00:11:59	Dark	40.000	10	Bet Cen	0.61000	28000.	80	30832	No
7	GOM_TRA_1PNPDE20080123_001526_000000452065_00217_30832_8045.N1	23-JAN-2008 00:15:26	Dark	45.000	12	Alp1Cru	0.77500	30000.	90	30832	No
8	GOM_TRA_1PNPDE20080123_001938_000000392065_00217_30832_8046.N1	23-JAN-2008 00:19:38	Dark	39.000	29	Bet Car	1.6720	10200.	78	30832	No
9	GOM_TRA_1PNPDE20080123_002145_000000442065_00217_30832_8047.N1	23-JAN-2008 00:21:45	Dark	43.500	71	lot Car	2.2460	7700.0	87	30832	No
10	GOM_TRA_1PNPDE20080123_002335_000000412065_00217_30832_8048.N1	23-JAN-2008 00:23:35	Dark	41.000	46	Del Vel	1.9540	10600.	82	30832	No
11	GOM_TRA_1PNPDE20080123_002610_000000522065_00217_30832_8049.N1	23-JAN-2008 00:26:10	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	30832	No
12	GOM_TRA_1PNPDE20080123_002820_000000412065_00217_30832_8050.N1	23-JAN-2008 00:28:20	Straylight	41.000	70	Zet Pup	2.2460	39000.	82	30832	No
13	GOM_TRA_1PNPDE20080123_002951_000000432065_00217_30832_8051.N1	23-JAN-2008 00:29:51	Straylight	43.000	117	Pi Pup	2.7060	3800.0	86	30832	No
14	GOM_TRA_1PNPDE20080123_003221_000000422065_00217_30832_8052.N1	23-JAN-2008 00:32:21	Straylight	41.500	23	21Eps CMa	1.5020	26000.	83	30832	No
15	GOM_TRA_1PNPDE20080123_003344_000000392065_00217_30832_8053.N1	23-JAN-2008 00:33:44	Straylight	39.000	179	24Omi2CMa	3.0320	24000.	78	30832	No
16	GOM_TRA_1PNPDE20080123_003554_000000422065_00217_30832_8054.N1	23-JAN-2008 00:35:54	Straylight	41.500	1	9Alp CMa	-1.4400	11000.	83	30832	No
17	GOM_TRA_1PNPDE20080123_003827_000000392065_00217_30832_8055.N1	23-JAN-2008 00:38:27	Twilight	39.000	56	53Kap Ori	2.0650	30000.	78	30832	No
18	GOM_TRA_1PNPDE20080123_004041_000000432065_00217_30832_8056.N1	23-JAN-2008 00:40:41	Twilight	42.500	33	50Zet Ori	1.7660	30000.	85	30832	No
19	GOM_TRA_1PNPDE20080123_004305_000000472065_00217_30832_8057.N1	23-JAN-2008 00:43:05	Twilight	46.500	14	58Alp Ori	0.87000	3000.0	93	30832	No
20	GOM_TRA_1PNPDE20080123_004518_000000422065_00217_30832_8058.N1	23-JAN-2008 00:45:18	Bright	42.000	44	24Gam Gem	1.9280	11000.	84	30832	No
21	GOM_TRA_1PNPDE20080123_004703_000000402065_00217_30832_8059.N1	23-JAN-2008 00:47:03	Bright	39.500	151	13Mu Gem	2.8900	3000.0	79	30832	No
22	GOM_TRA_1PNPDE20080123_004916_000000372065_00217_30832_8060.N1	23-JAN-2008 00:49:16	Bright	37.000	28	12Bet Tau	1.6500	15200.	74	30832	No
23	GOM_TRA_1PNPDE20080123_005116_000000352065_00217_30832_8061.N1	23-JAN-2008 00:51:16	Bright	34.500	107	37The Aur	2.6490	11000.	69	30832	No
24	GOM_TRA_1PNPDE20080123_005325_000000362065_00217_30832_8062.N1	23-JAN-2008 00:53:25	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	30832	No
25	GOM_TRA_1PNPDE20080123_010557_000000352065_00217_30832_8063.N1	23-JAN-2008 01:05:57	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	30832	No
26	GOM_TRA_1PNPDE20080123_011655_000000372065_00217_30832_8064.N1	23-JAN-2008 01:16:55	Bright	37.000	130	23Bet Dra	2.7990	5800.0	74	30832	No
27	GOM_TRA_1PNPDE20080123_012014_000000342065_00217_30832_8065.N1	23-JAN-2008 01:20:14	Bright	33.500	5	3Alp Lyr	0.033000	11000.	67	30832	No
28	GOM_TRA_1PNPDE20080123_012814_000000412065_00217_30832_8066.N1	23-JAN-2008 01:28:14	Bright	41.000	59	55Alp Oph	2.0800	8900.0	82	30832	No
29	GOM_TRA_1PNPDE20080123_013020_000000342065_00217_30832_8067.N1	23-JAN-2008 01:30:20	Bright	34.000	126	60Bet Oph	2.7700	4250.0	68	30832	No
30	GOM_TRA_1PNPDE20080123_013628_000000382065_00217_30832_8215.N1	23-JAN-2008 01:36:28	Bright	37.500	86	35Eta Oph	2.4300	10200.	75	30832	No
31	GOM_TRA_1PNPDE20080123_014022_000000552065_00217_30832_8216.N1	23-JAN-2008 01:40:22	Twilight	55.000	16	21Alp Sco	1.0200	3000.0	110	30832	No
32	GOM_TRA_1PNPDE20080123_014152_000000412065_00217_30832_8217.N1	23-JAN-2008 01:41:52	Twilight	41.000	75	26Eps Sco	2.2910	4250.0	82	30832	No
33	GOM_TRA_1PNPDE20080123_014325_000000382065_00217_30832_8218.N1	23-JAN-2008 01:43:25	Dark	37.500	40	The Sco	1.8590	7100.0	75	30832	No
34	GOM_TRA_1PNPDE20080123_014521_000000352065_00217_30832_8219.N1	23-JAN-2008 01:45:21	Dark	35.000	147	Alp Ara	2.8770	26000.	70	30832	No
35	GOM_TRA_1PNPDE20080123_014656_000000372065_00217_30832_8220.N1	23-JAN-2008 01:46:56	Dark	36.500	141	Bet Ara	2.8400	4600.0	73	30832	No
36	GOM_TRA_1PNPDE20080123_015012_000000372065_00218_30833_8221.N1	23-JAN-2008 01:50:12	Dark	37.000	134	Bet TrA	2.8100	6600.0	74	30833	No
37	GOM_TRA_1PNPDE20080123_015235_000000422065_00218_30833_8222.N1	23-JAN-2008 01:52:35	Dark	42.000	10	Bet Cen	0.61000	28000.	84	30833	No
38	GOM_TRA_1PNPDE20080123_015603_000000412065_00218_30833_8223.N1	23-JAN-2008 01:56:03	Dark	41.000	12	Alp1Cru	0.77500	30000.	82	30833	No
39	GOM_TRA_1PNPDE20080123_020014_000000392065_00218_30833_8224.N1	23-JAN-2008 02:00:14	Dark	38.500	29	Bet Car	1.6720	10200.	77	30833	No
40	GOM_TRA_1PNPDE20080123_020222_000000382065_00218_30833_8225.N1	23-JAN-2008 02:02:22	Dark	38.000	71	lot Car	2.2460	7700.0	76	30833	No
41	GOM_TRA_1PNPDE20080123_020411_000000402065_00218_30833_8226.N1	23-JAN-2008 02:04:11	Dark	39.500	46	Del Vel	1.9540	10600.	79	30833	No
42	GOM_TRA_1PNPDE20080123_020646_000000472065_00218_30833_8227.N1	23-JAN-2008 02:06:46	Dark	46.500	2	Alp Car	-0.73600	7000.0	93	30833	No
43	GOM_TRA_1PNPDE20080123_020856_000000402065_00218_30833_8228.N1	23-JAN-2008 02:08:56	Straylight	39.500	70	Zet Pup	2.2460	39000.	79	30833	No
44	GOM_TRA_1PNPDE20080123_021028_000000472065_00218_30833_8229.N1	23-JAN-2008 02:10:28	Straylight	47.000	117	Pi Pup	2.7060	3800.0	94	30833	No
45	GOM_TRA_1PNPDE20080123_021257_000000392065_00218_30833_8230.N1	23-JAN-2008 02:12:57	Straylight	38.500	23	21Eps CMa	1.5020	26000.	77	30833	No
46	GOM_TRA_1PNPDE20080123_021420_000000392065_00218_30833_8231.N1	23-JAN-2008 02:14:20	Straylight	38.500	179	24Omi2CMa	3.0320	24000.	77	30833	No

47	GOM_TRA_1PNPDE20080123_021630_000000452065_00218_30833_8232.N1	23-JAN-2008 02:16:30	Straylight	45.000	1	9Alp CMa	-1.4400	11000.	90	30833	No
48	GOM_TRA_1PNPDE20080123_021904_000000392065_00218_30833_8233.N1	23-JAN-2008 02:19:04	Twilight_stray	38.500	56	53Kap Ori	2.0650	30000.	77	30833	No
49	GOM_TRA_1PNPDE20080123_022117_000000432065_00218_30833_8234.N1	23-JAN-2008 02:21:17	Twilight_stray	42.500	33	50Zet Ori	1.7660	30000.	85	30833	No

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



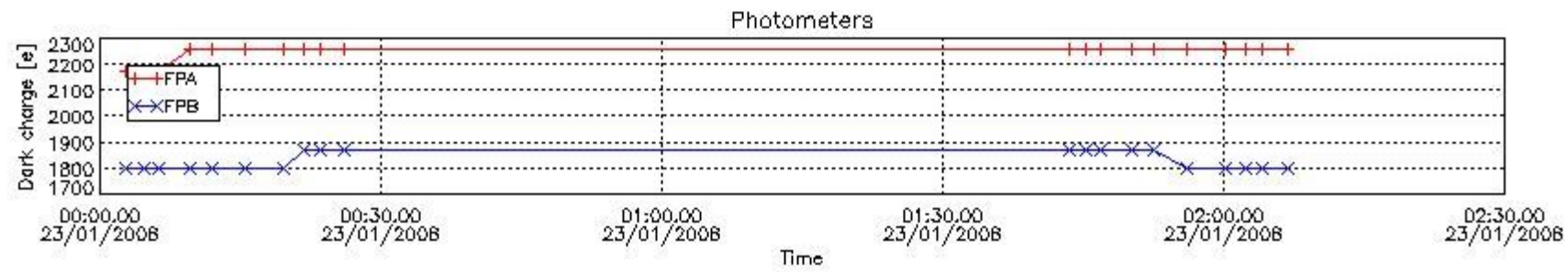
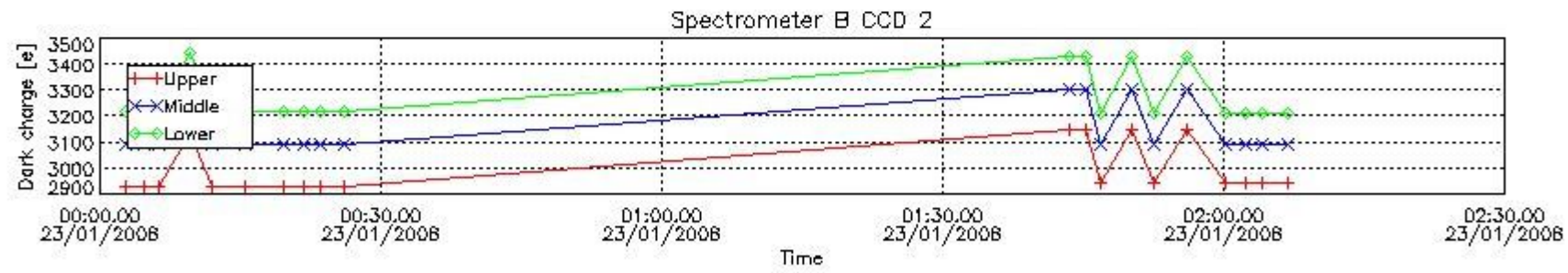
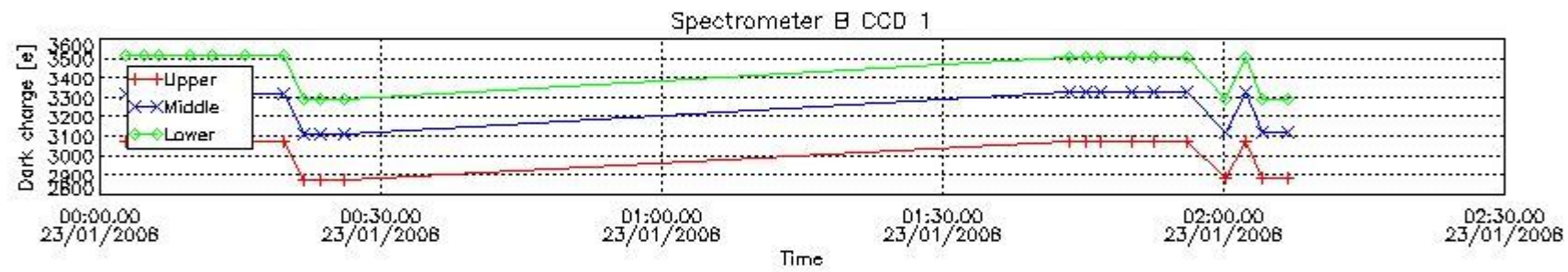
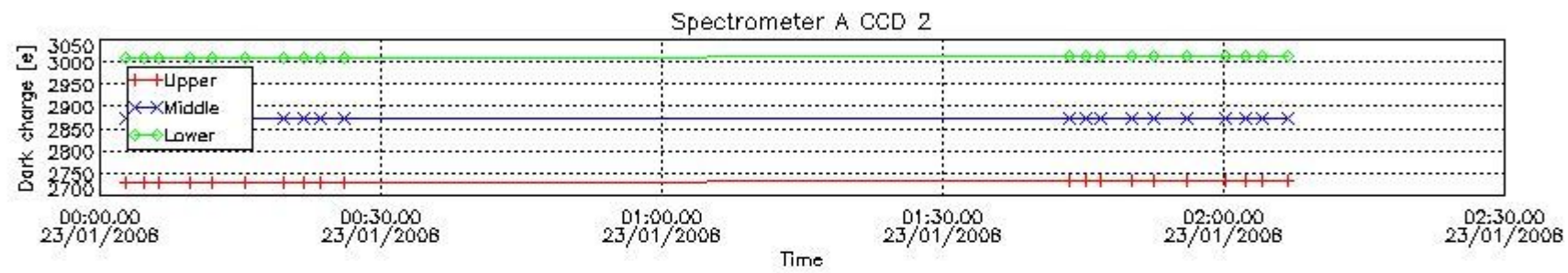
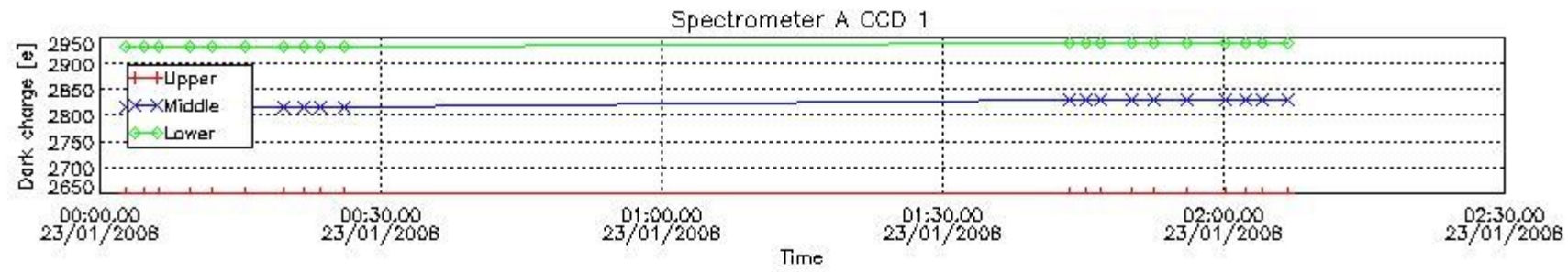
4. Overview of dark signal processing per product

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

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

4.1 All products used the DSA observation for the DC computation

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



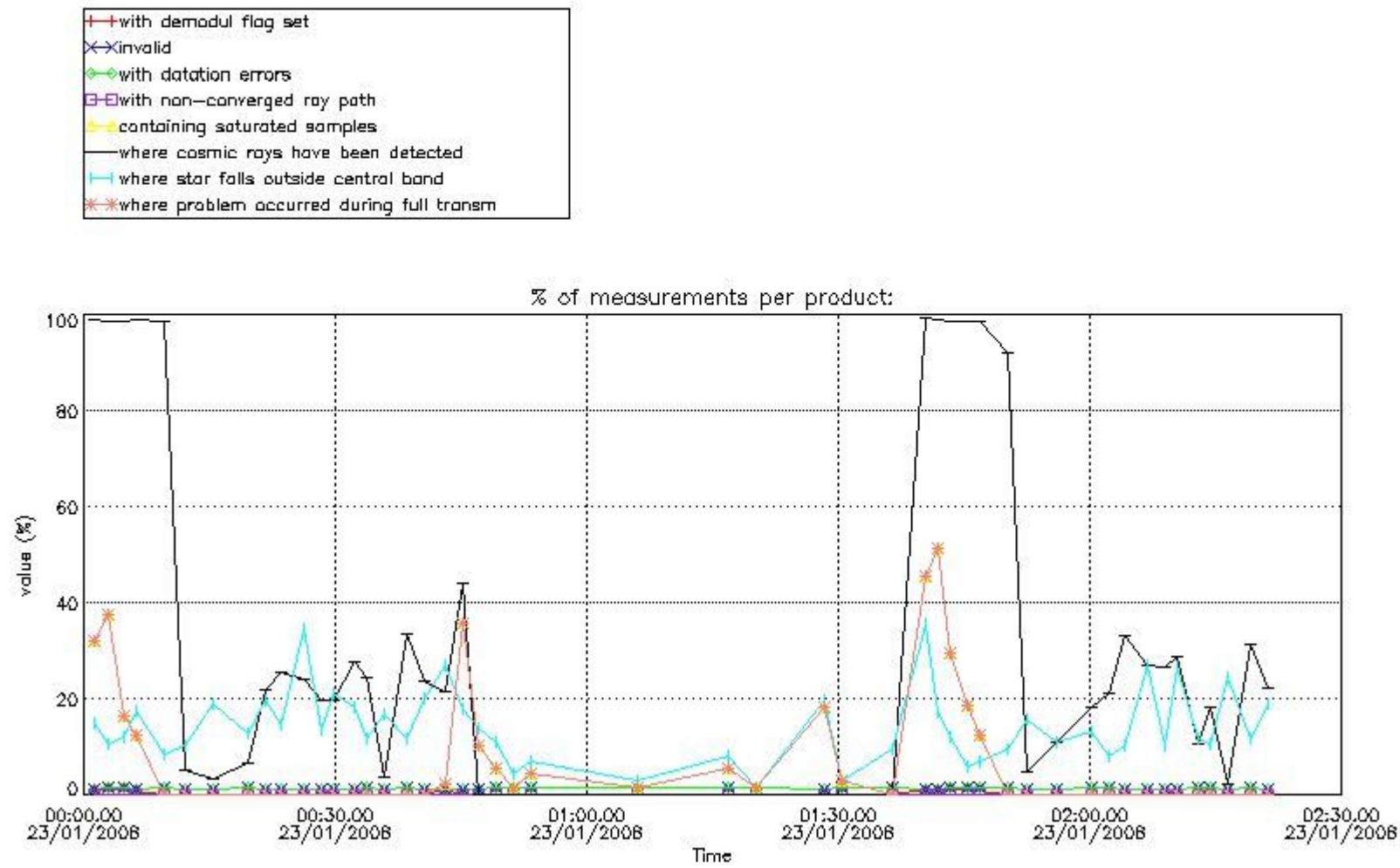
5. Demodulation flag and quality information monitoring

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

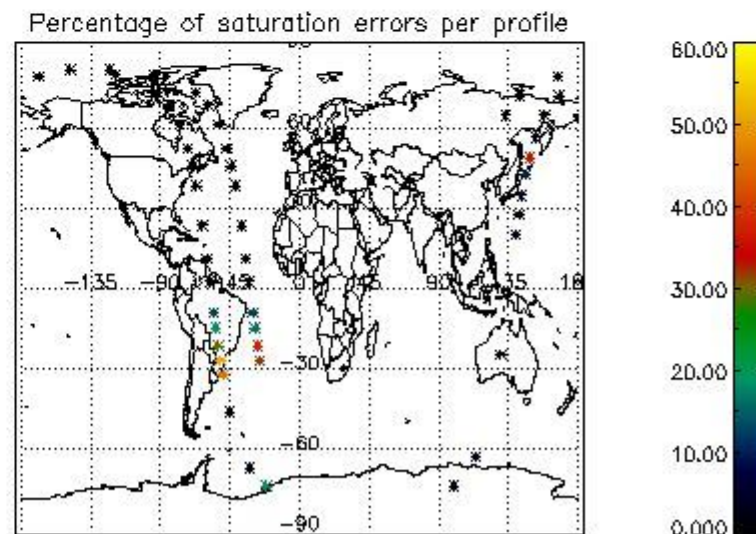
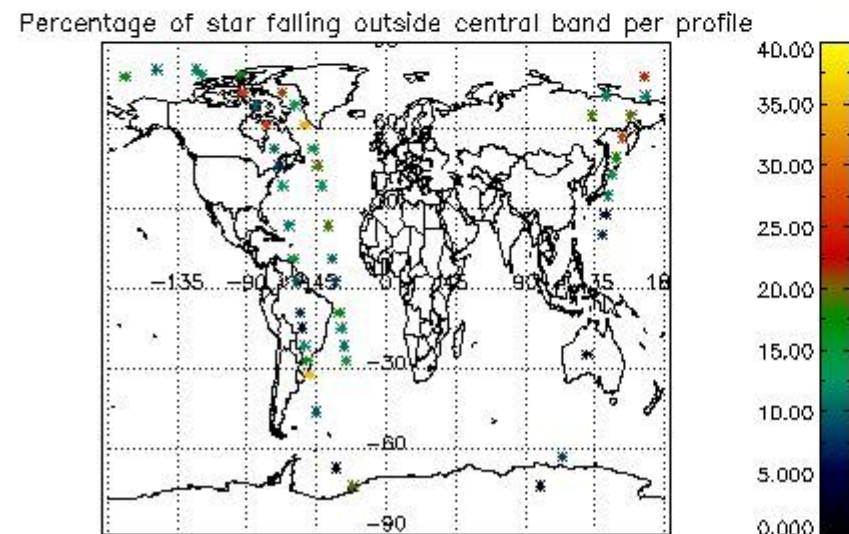
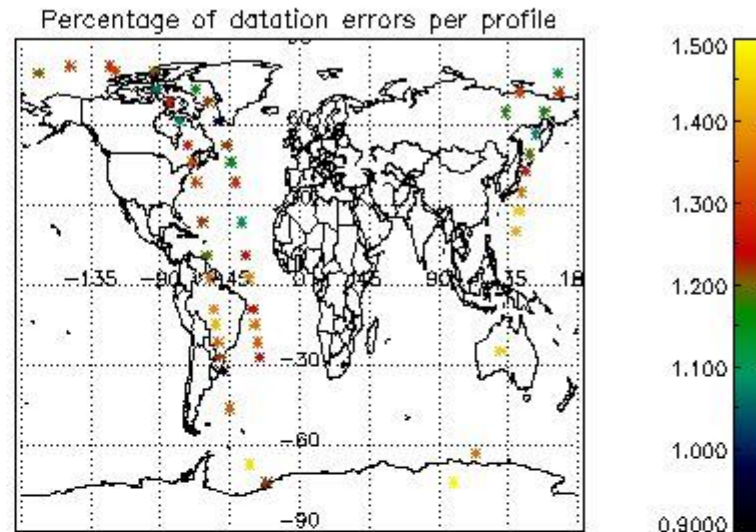
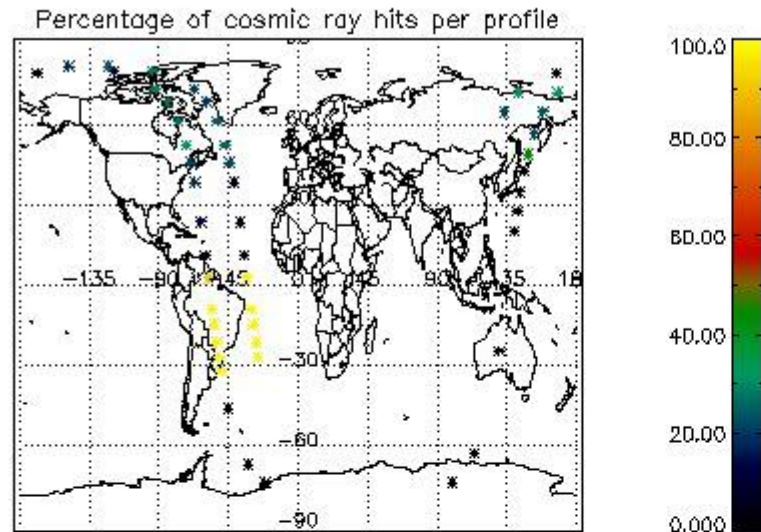
5.1 Percentage of products during reporting period with:

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

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



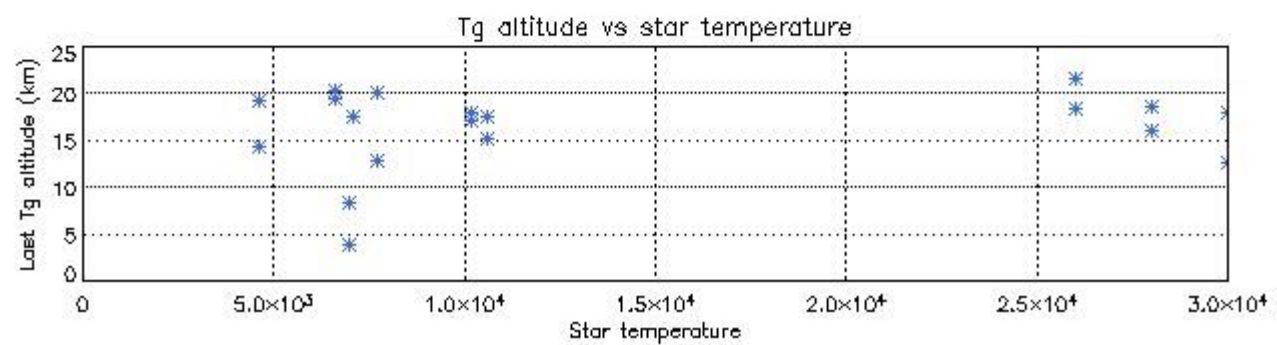
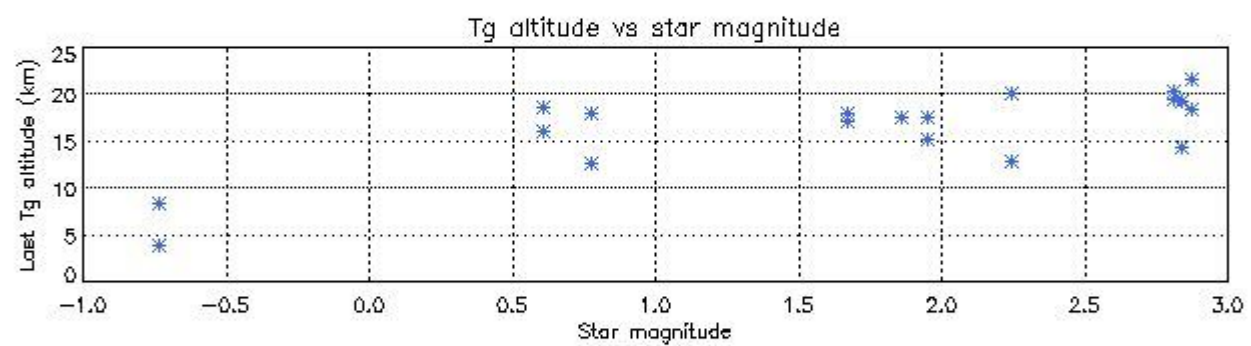
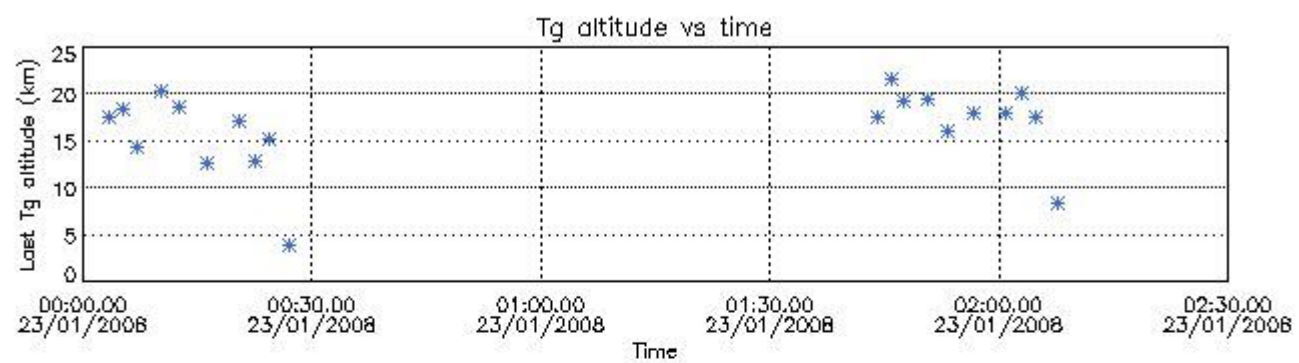
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.298	18.925	10.564
St. deviation:	4.2622	4.4436	5.9908
Maximum:	21.622	24.831	14.405
Minimum:	3.8913	11.804	3.6609
Number of data:	20.000	11.000	3.0000

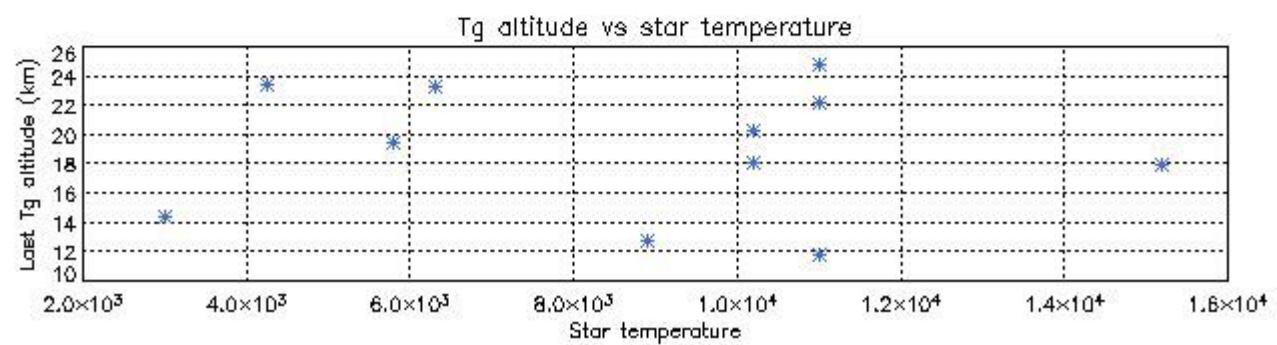
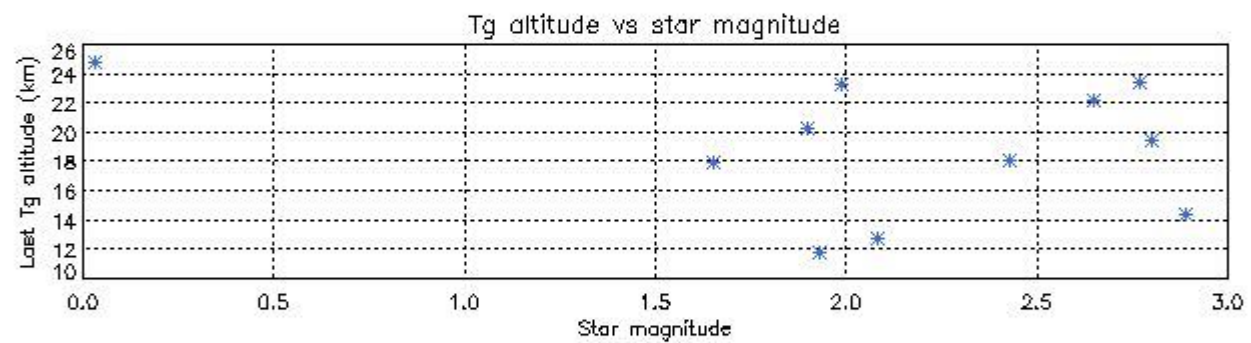
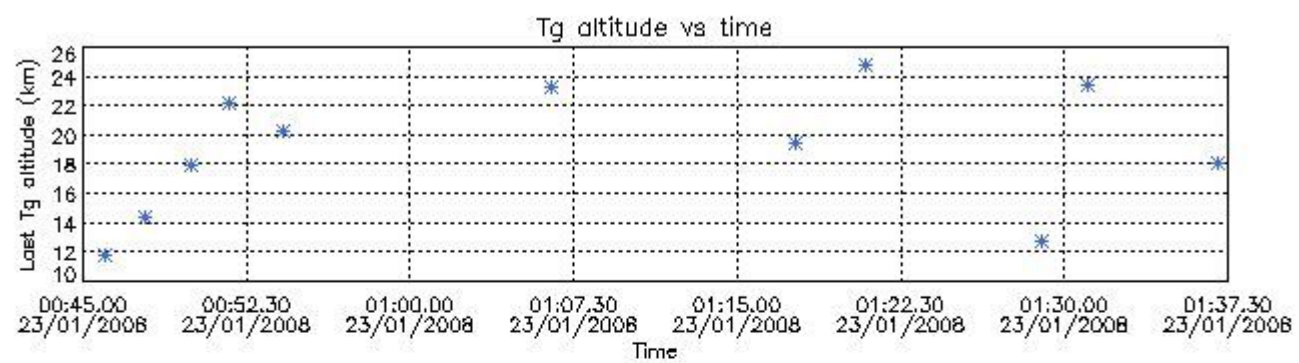
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



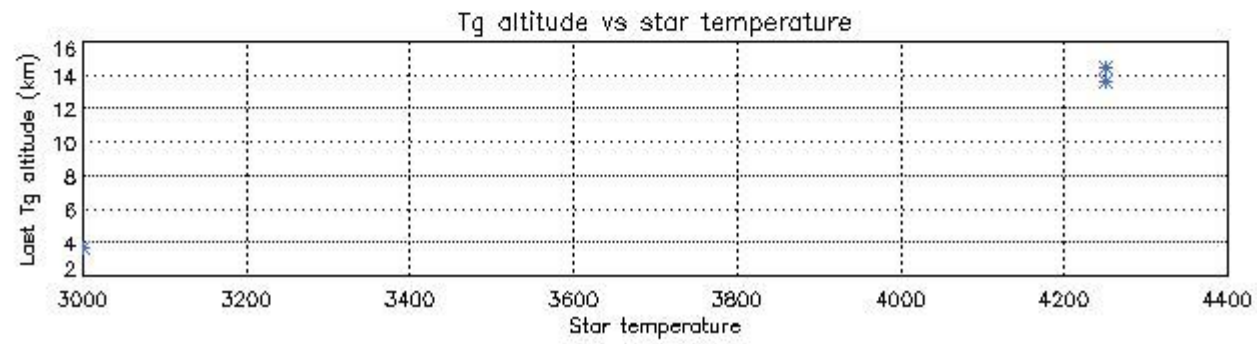
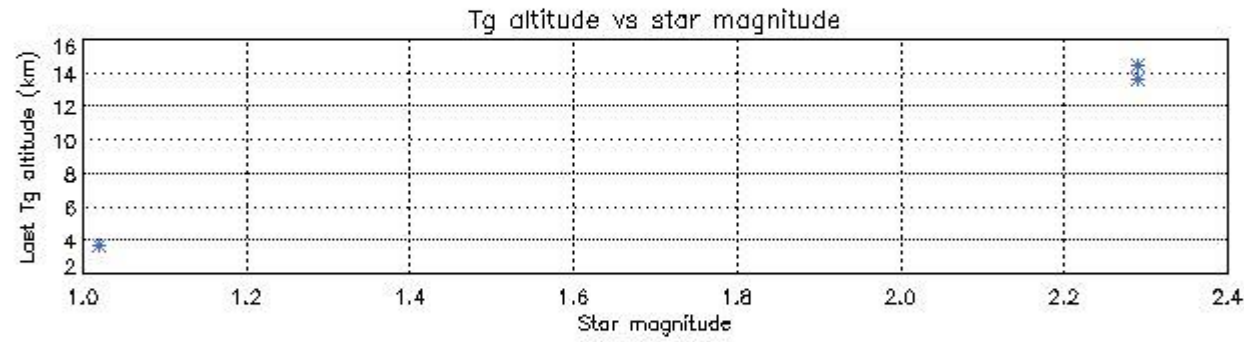
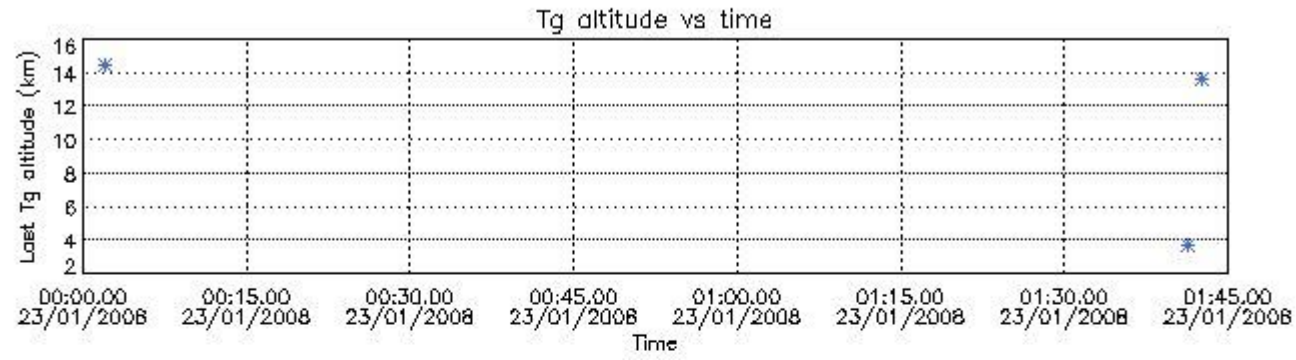
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

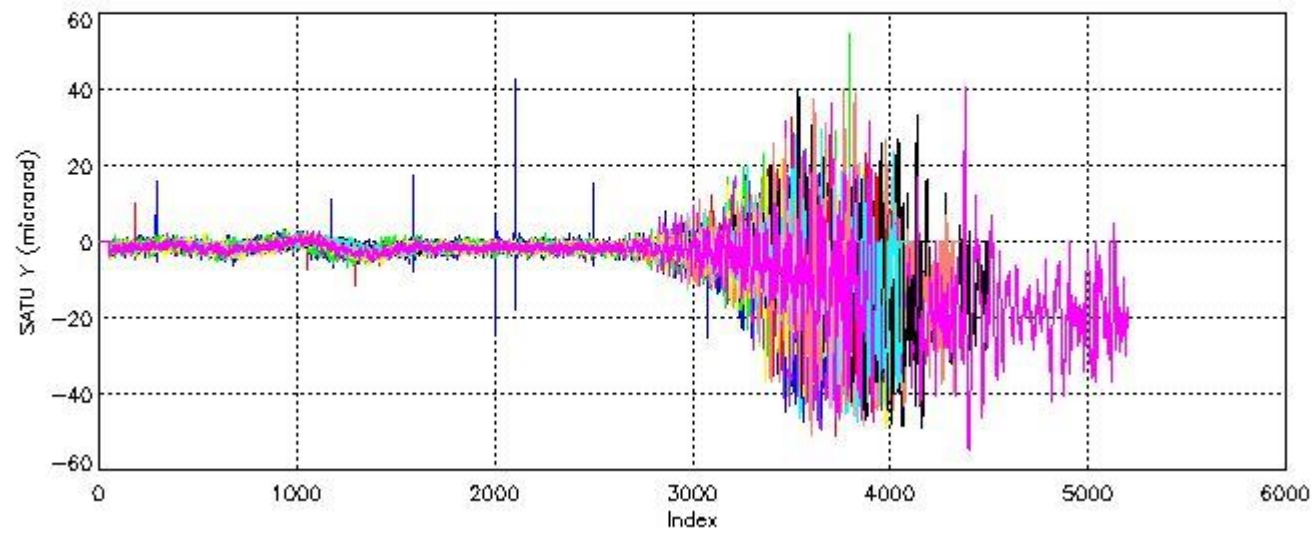
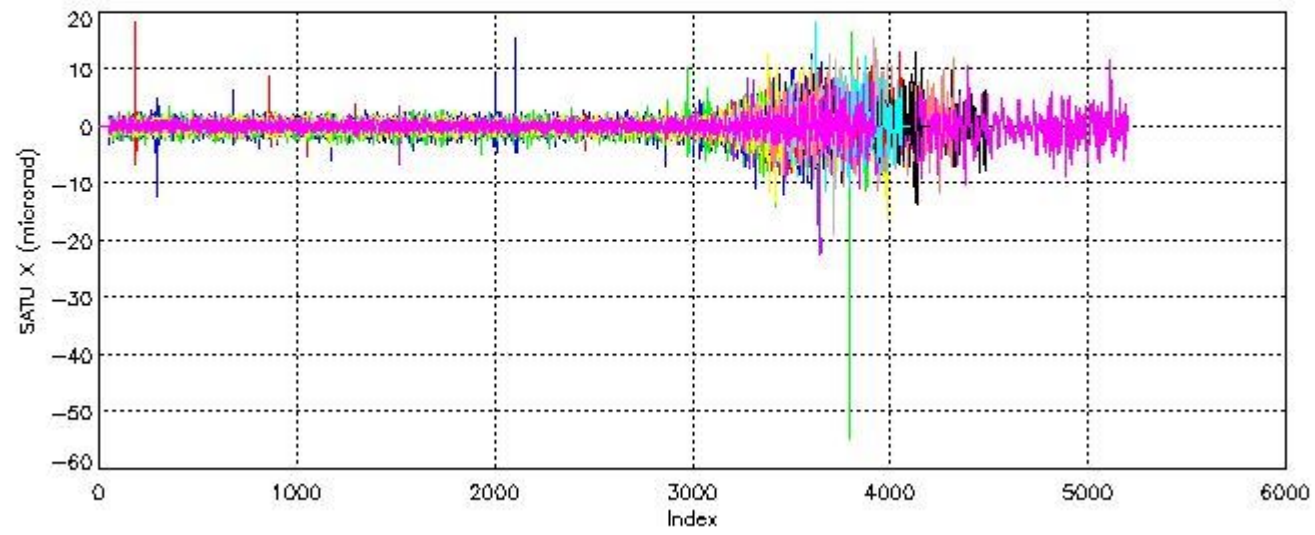


7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.016638	-1.3945	0.016576	-1.2610
St. deviation:	0.49743	0.82783	0.65053	1.1356
Maximum:	6.3000	15.700	4.5000	3.6000
Minimum:	-12.400	-6.2000	-3.8000	-6.8000

Number of data:	17400.	17400.	8900.0	8900.0
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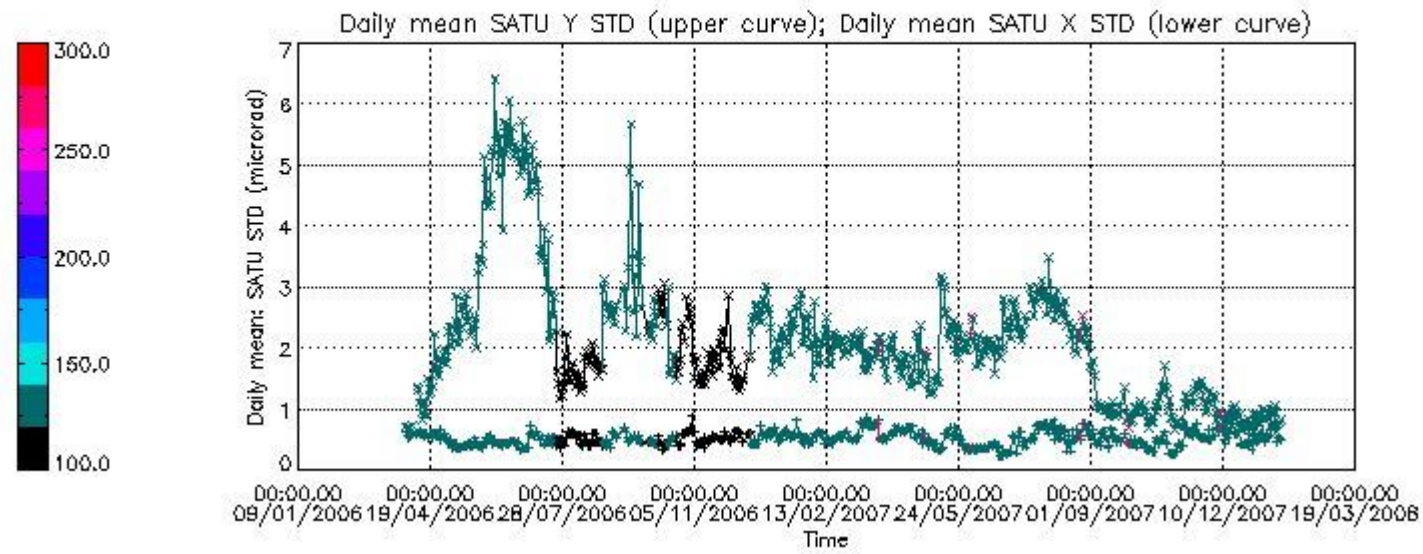
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

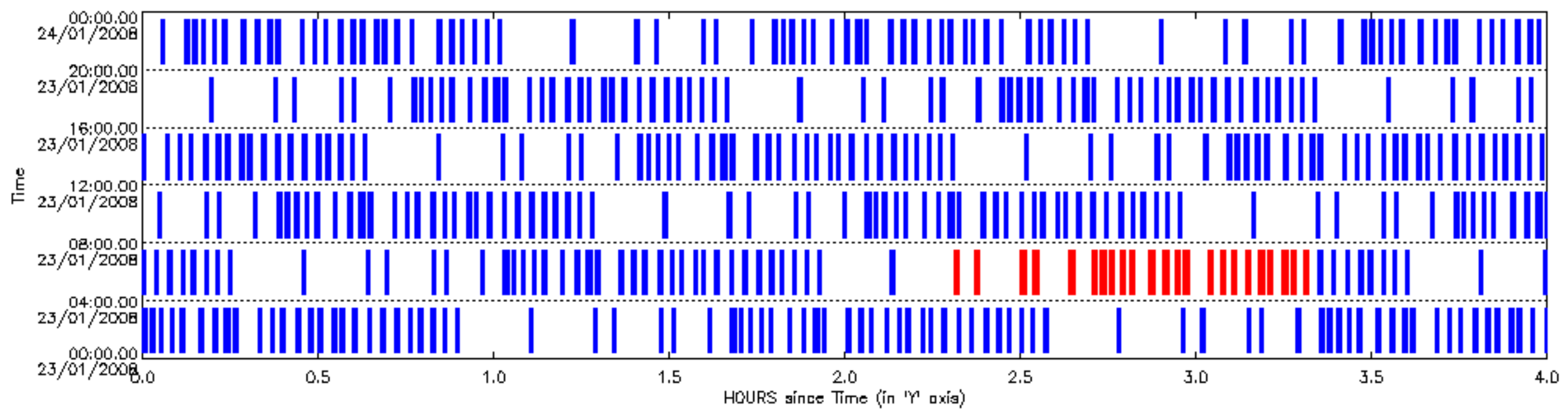
Lower curve: STD of SATU X axis

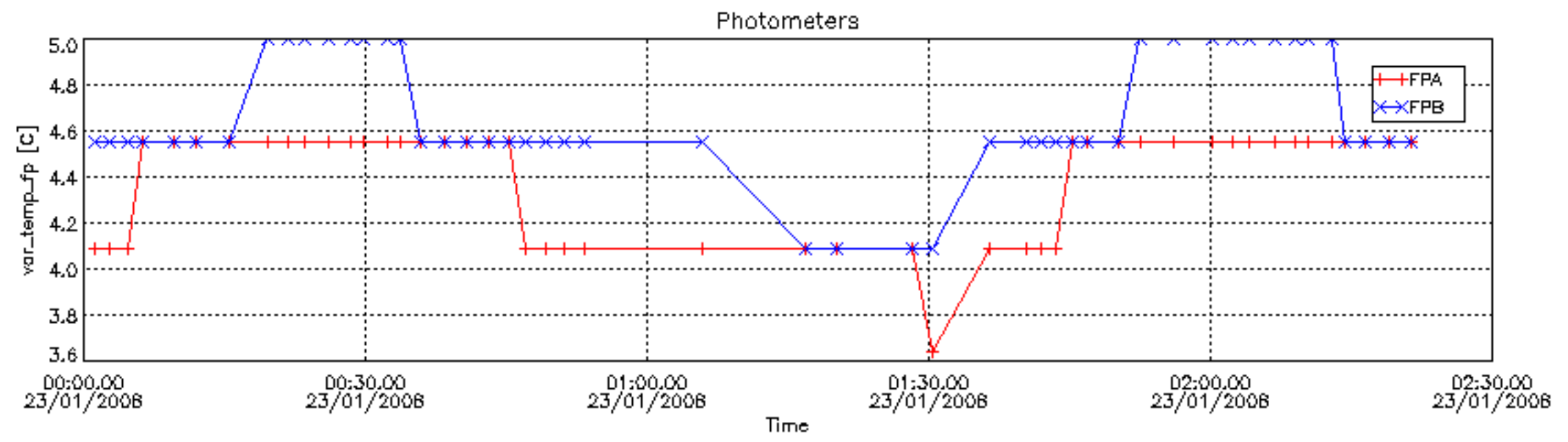
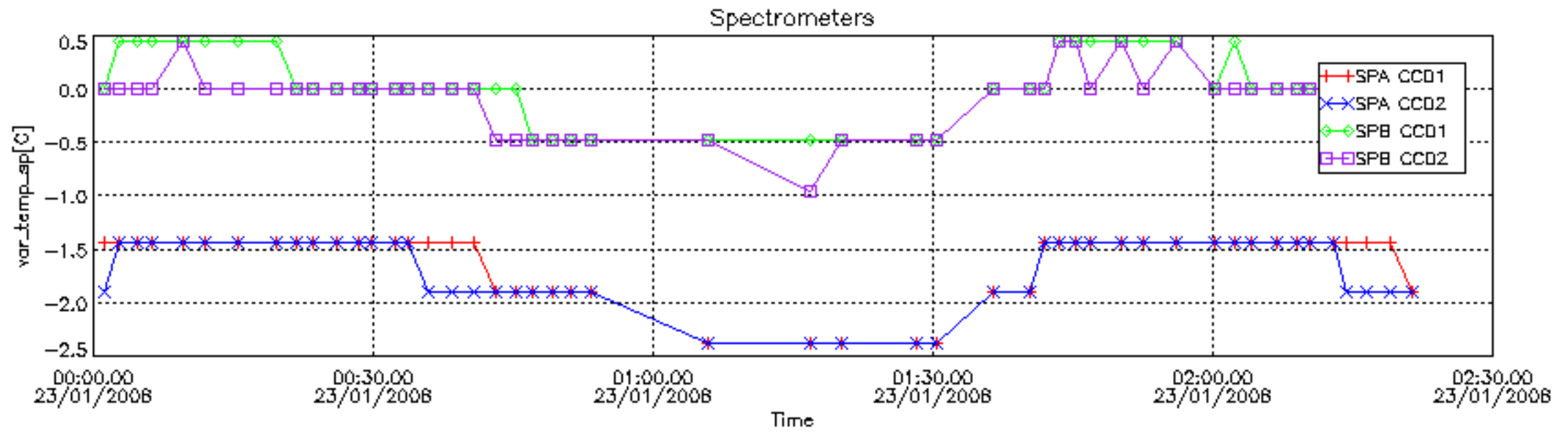


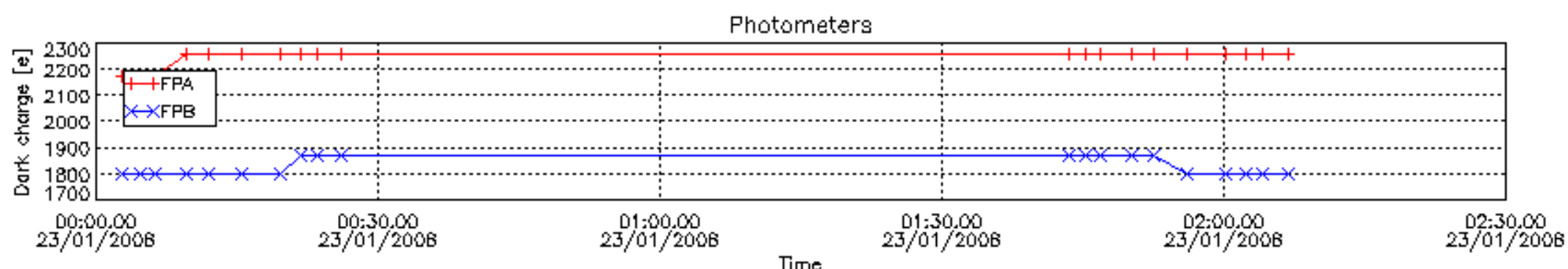
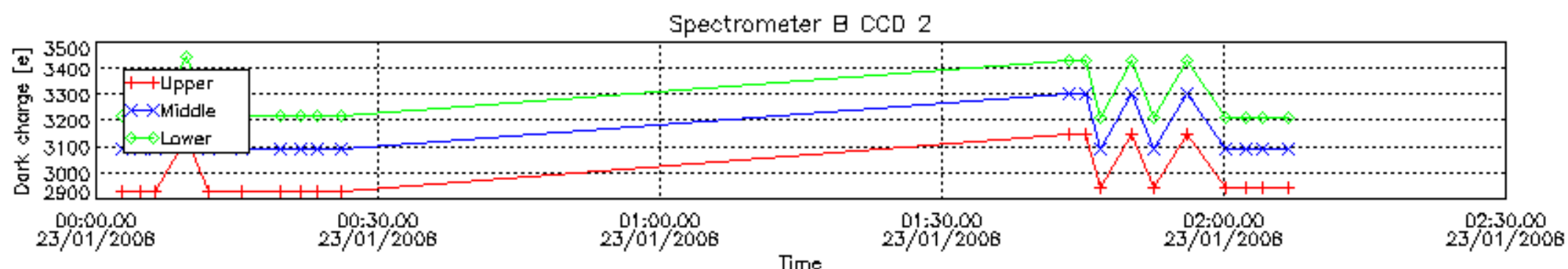
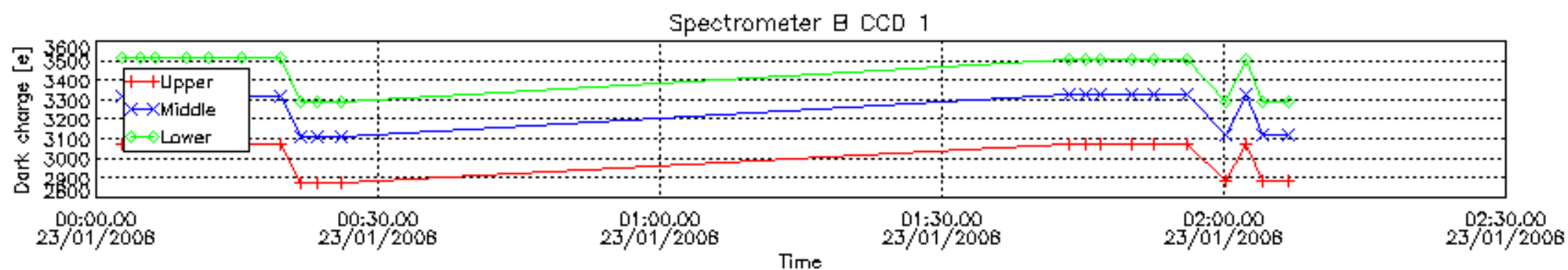
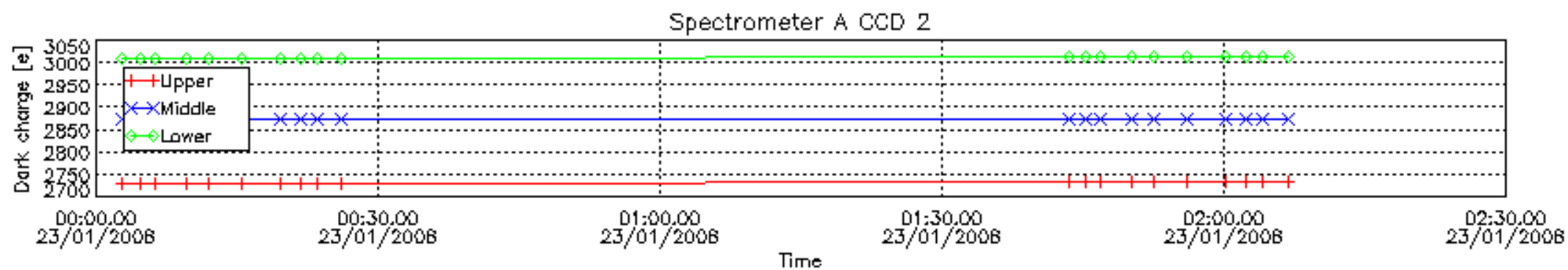
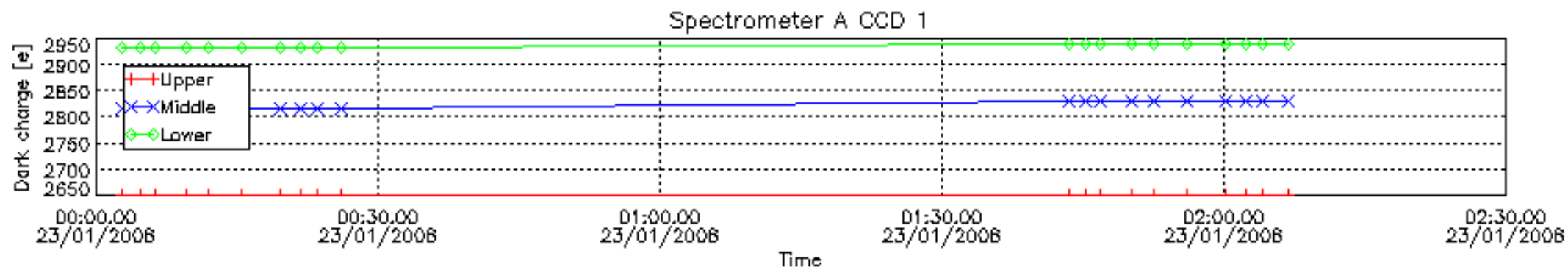
8. Auxiliary Data Files used for the production reported in section 2.4

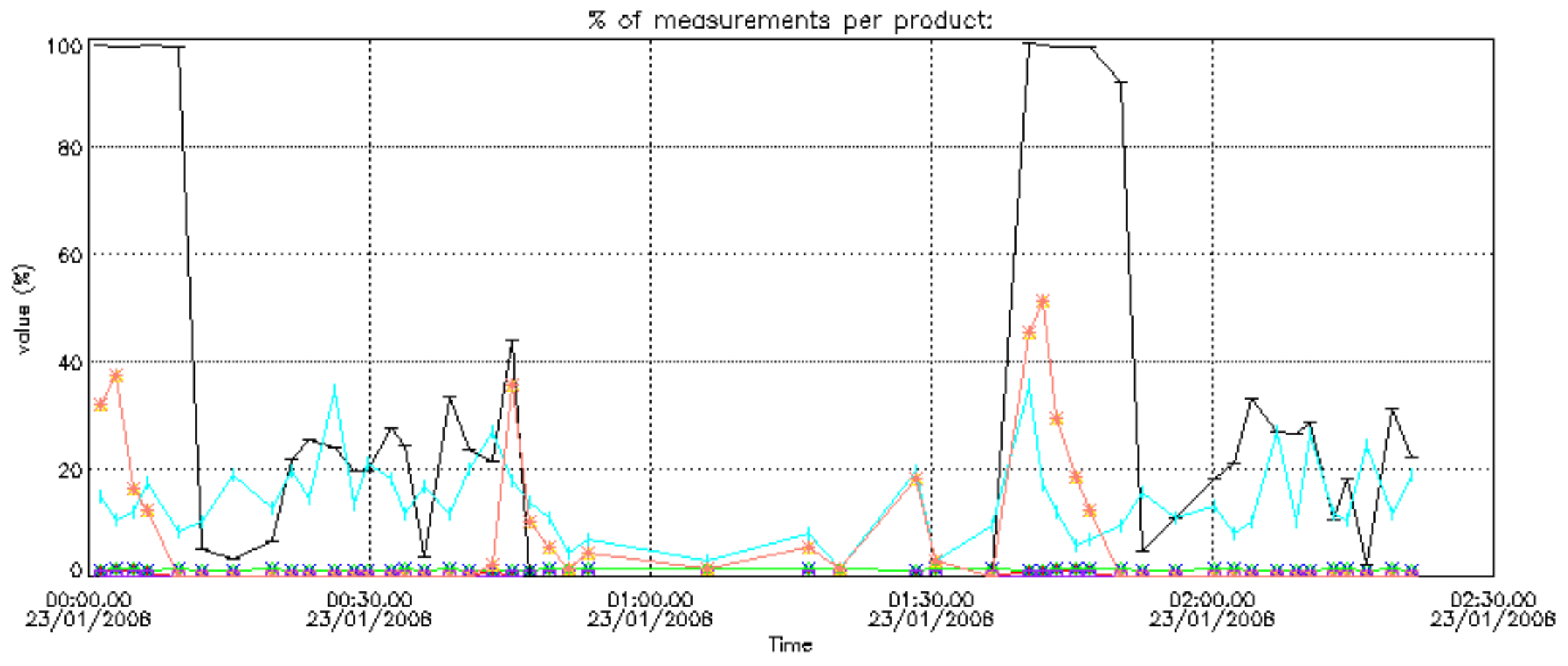
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	23-JAN-2008 00:01:16
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080118_162059_20080116_000000_20100101_000000	1	23-JAN-2008 00:01:16
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	23-JAN-2008 00:01:16
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	23-JAN-2008 00:01:16
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	23-JAN-2008 00:01:16
ECMWF_FILE	AUX_ECF_AXNECM20080122_073112_20080122_210000_20080123_090000	1	23-JAN-2008 00:01:16
OPTIONAL_ECMWF_FILE	MISSING	1	23-JAN-2008 00:01:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080122_221347_000057382065_00215_30830_4998.N1	1	23-JAN-2008 00:01:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080122_235444_000057382065_00216_30831_4999.N1	30	23-JAN-2008 01:36:28

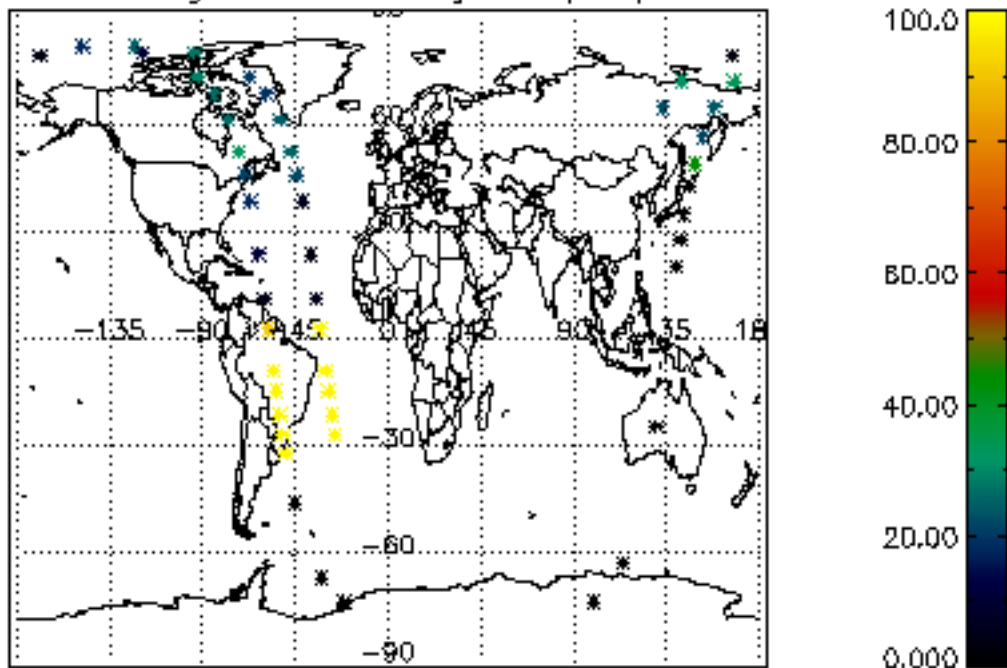




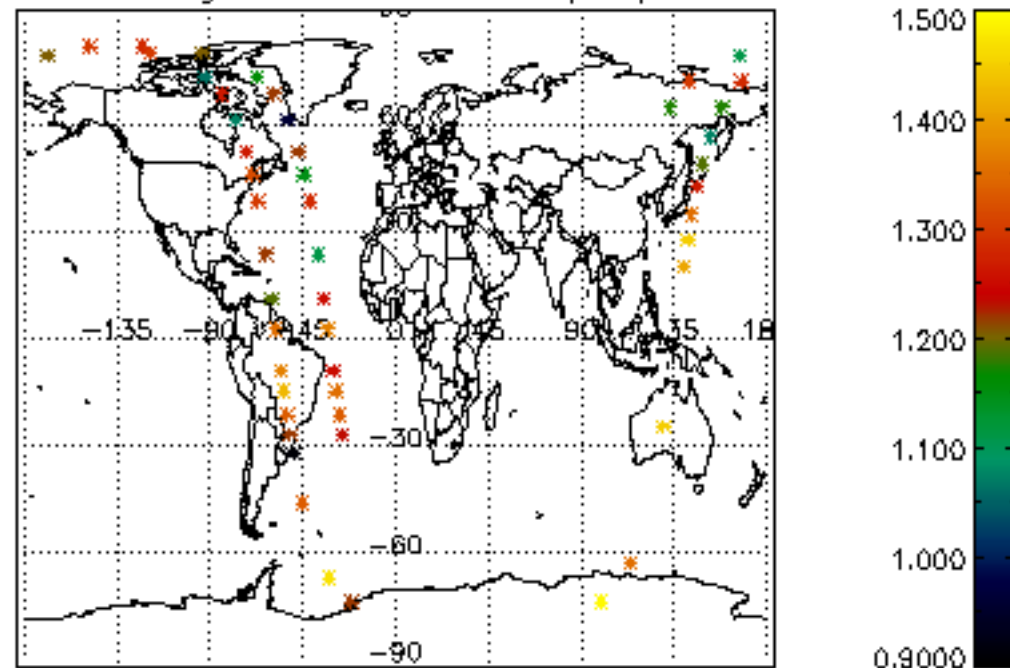




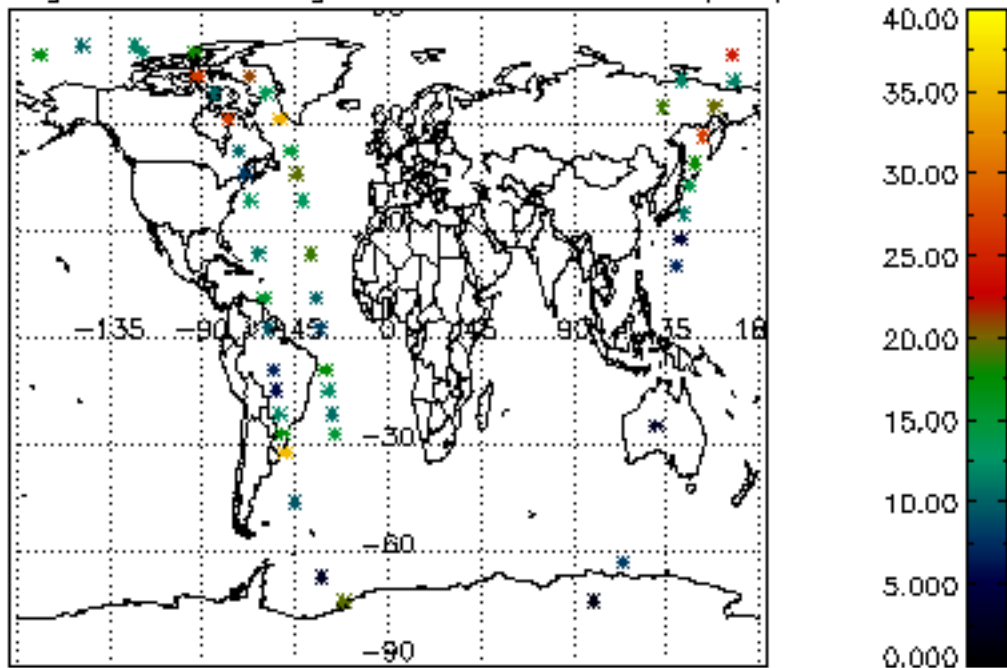
Percentage of cosmic ray hits per profile



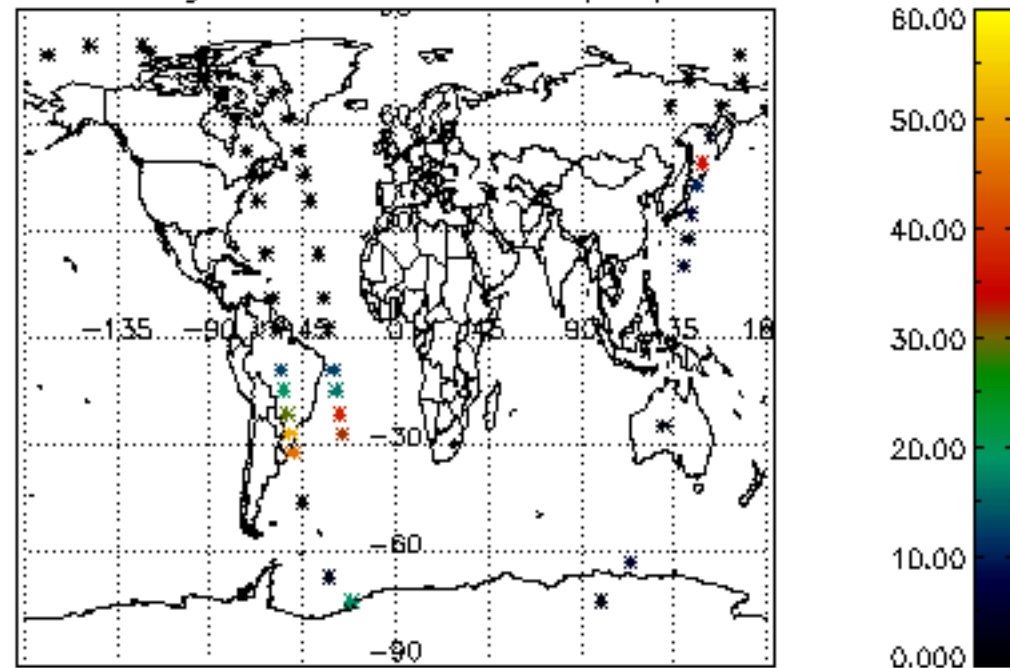
Percentage of datation errors per profile



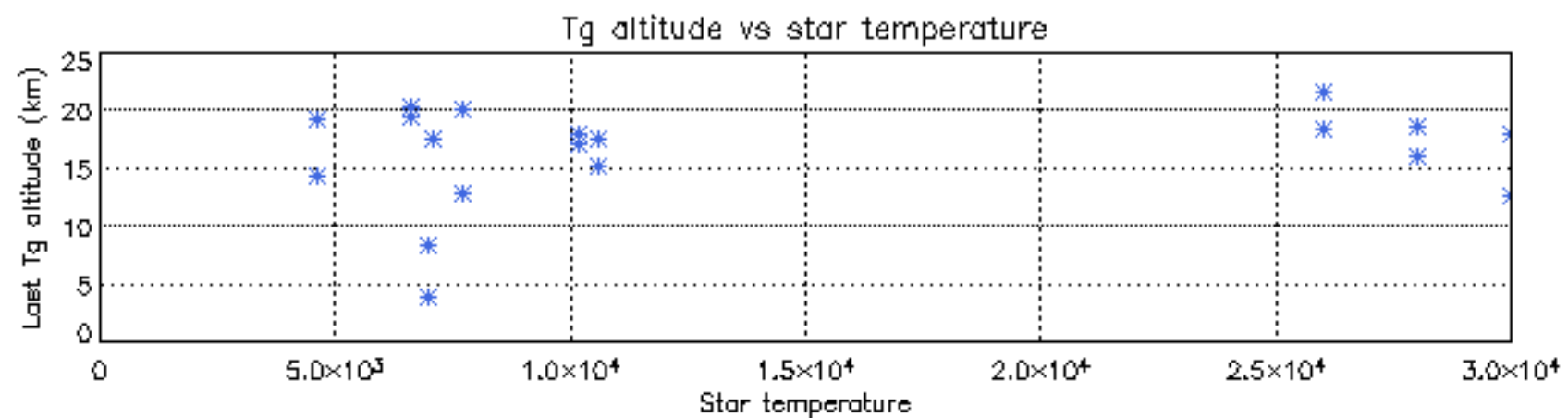
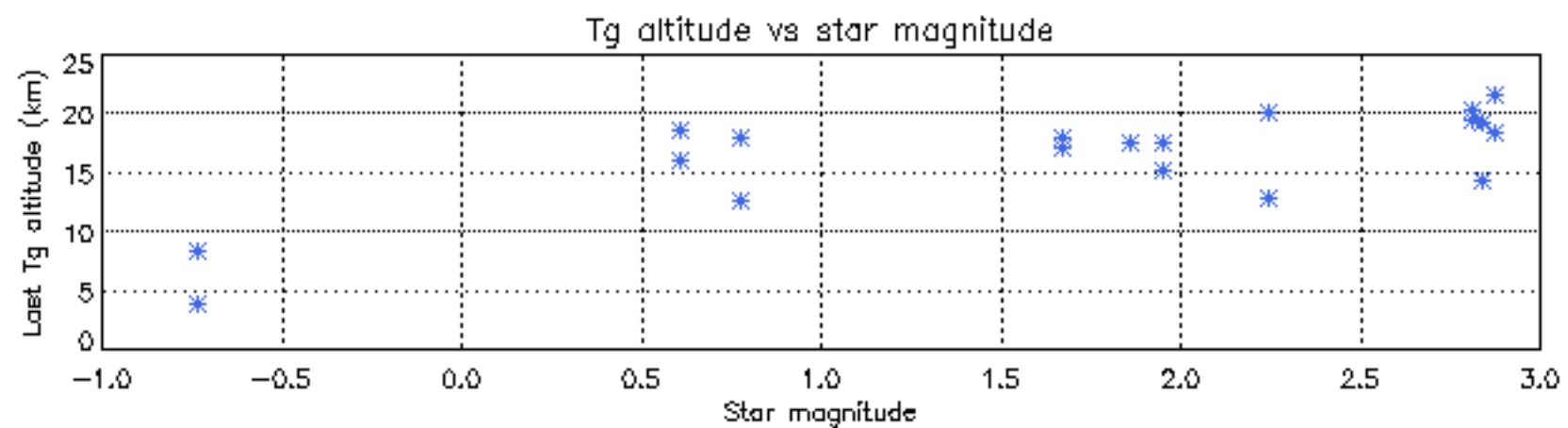
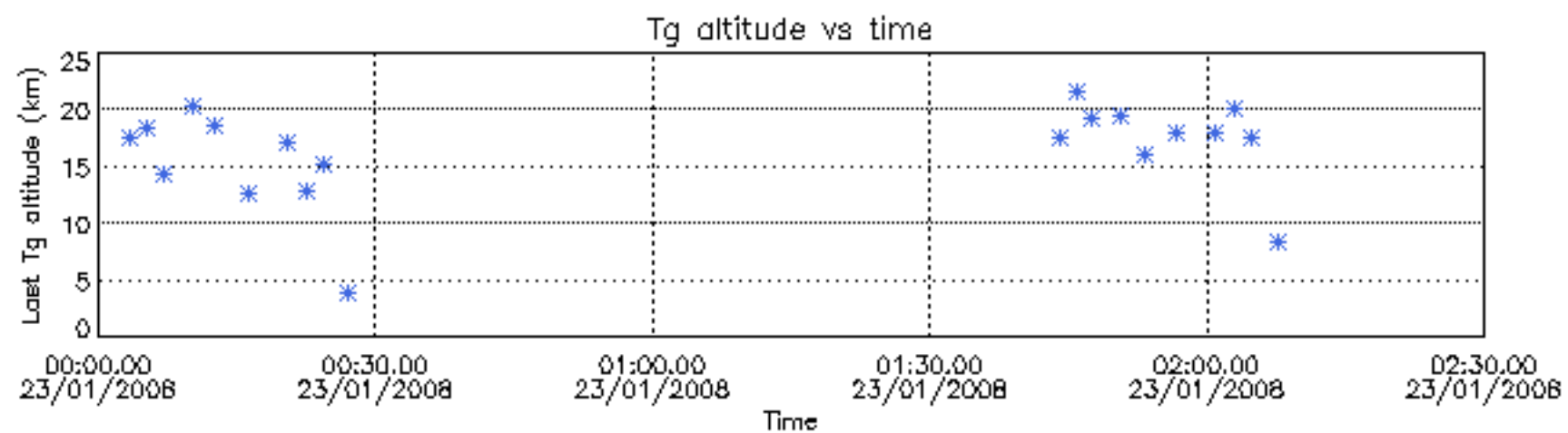
Percentage of star falling outside central band per profile



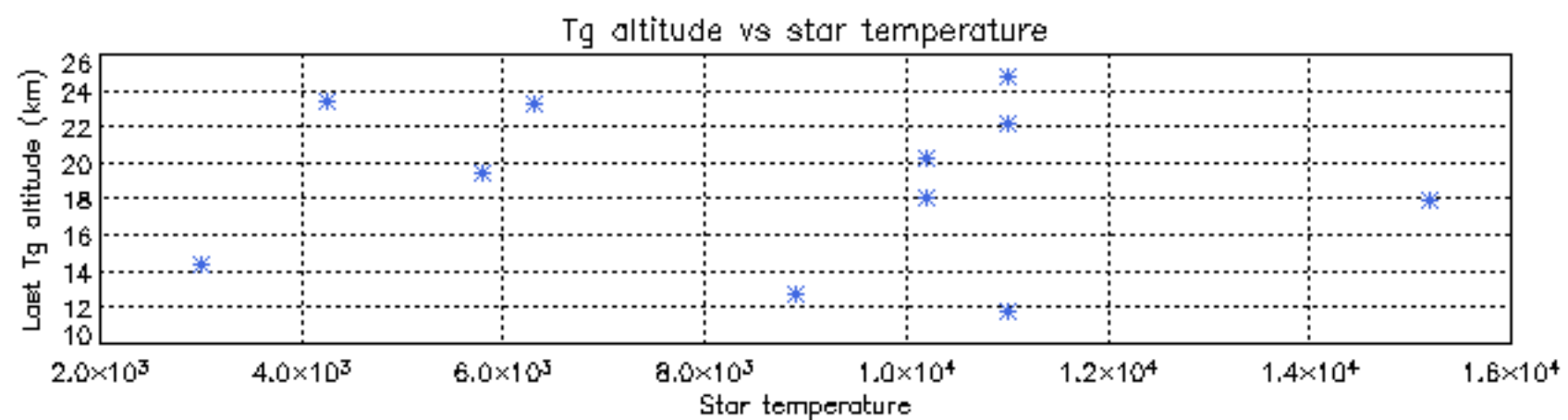
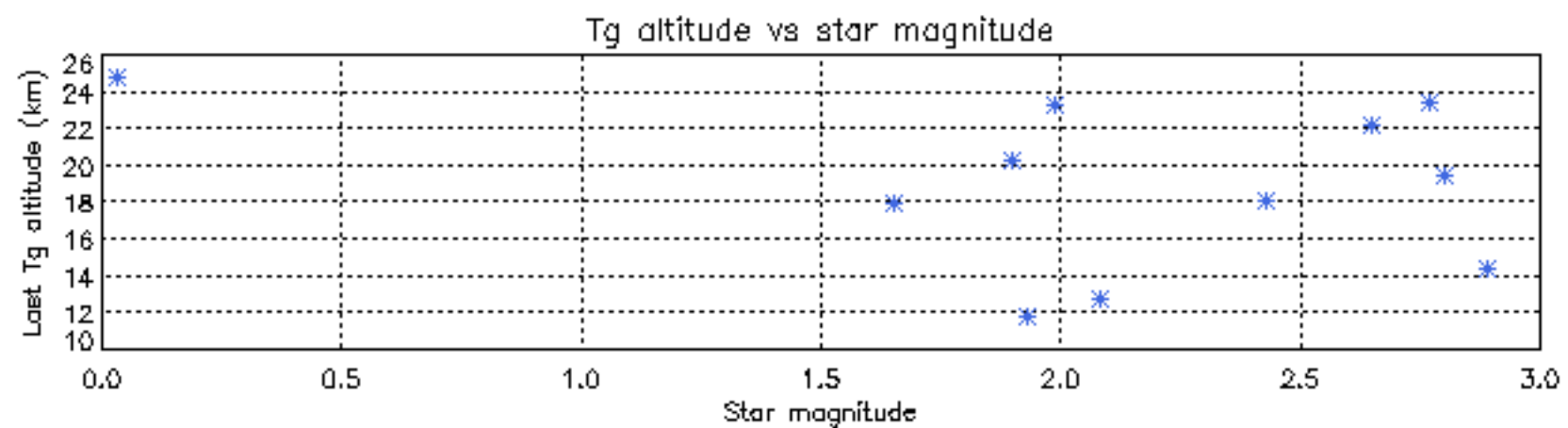
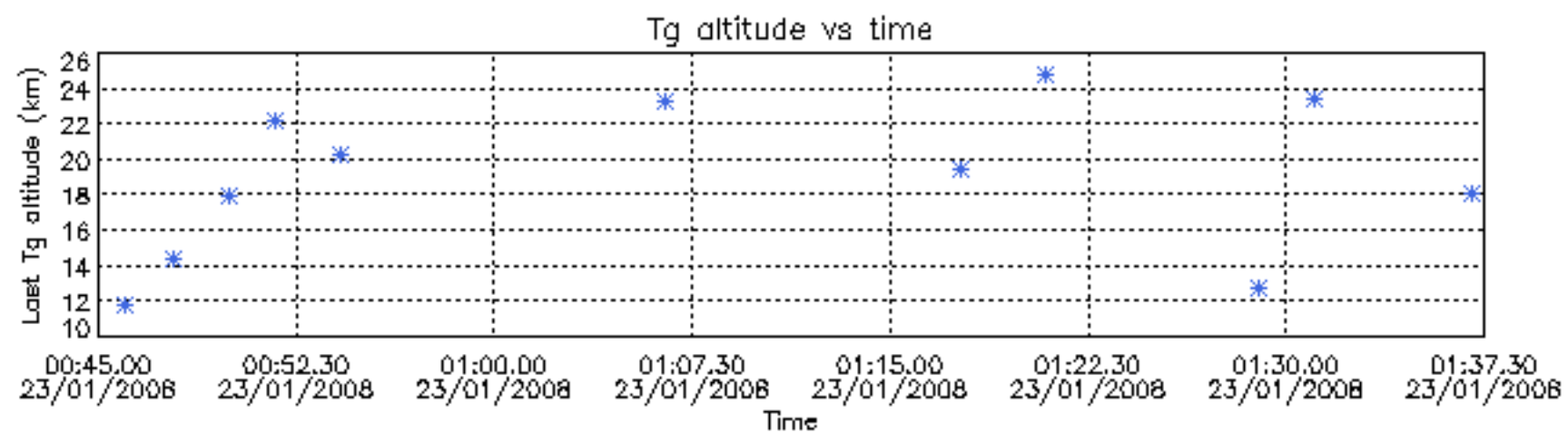
Percentage of saturation errors per profile



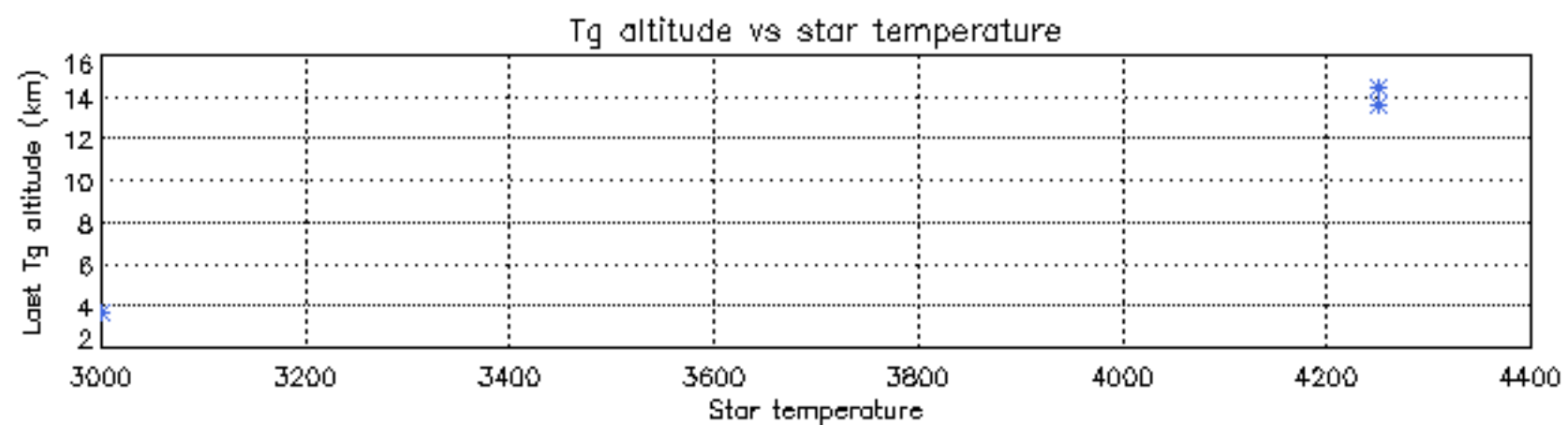
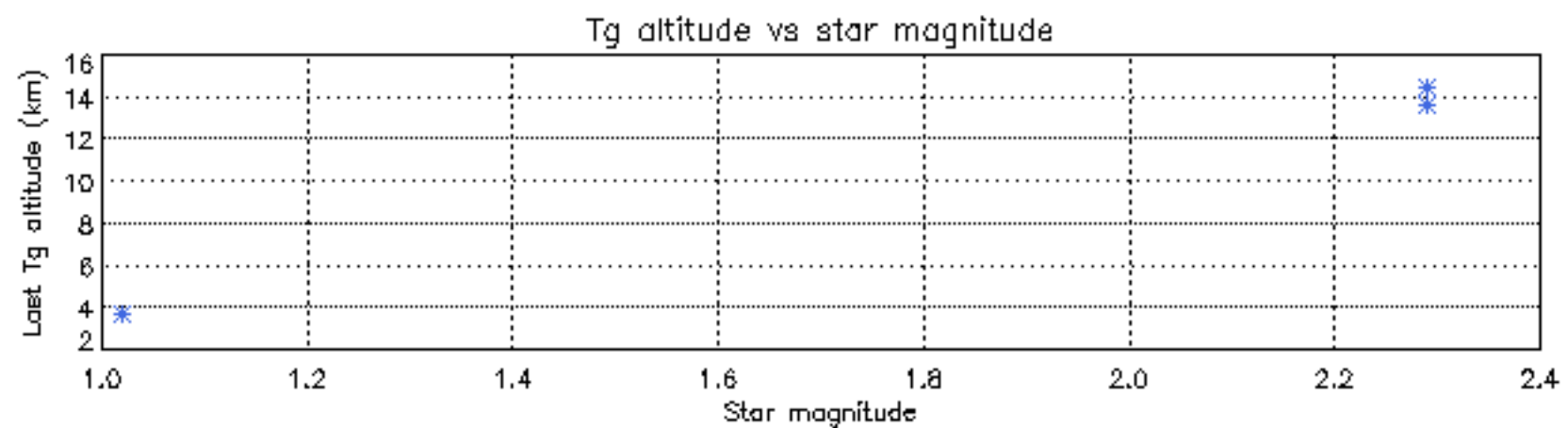
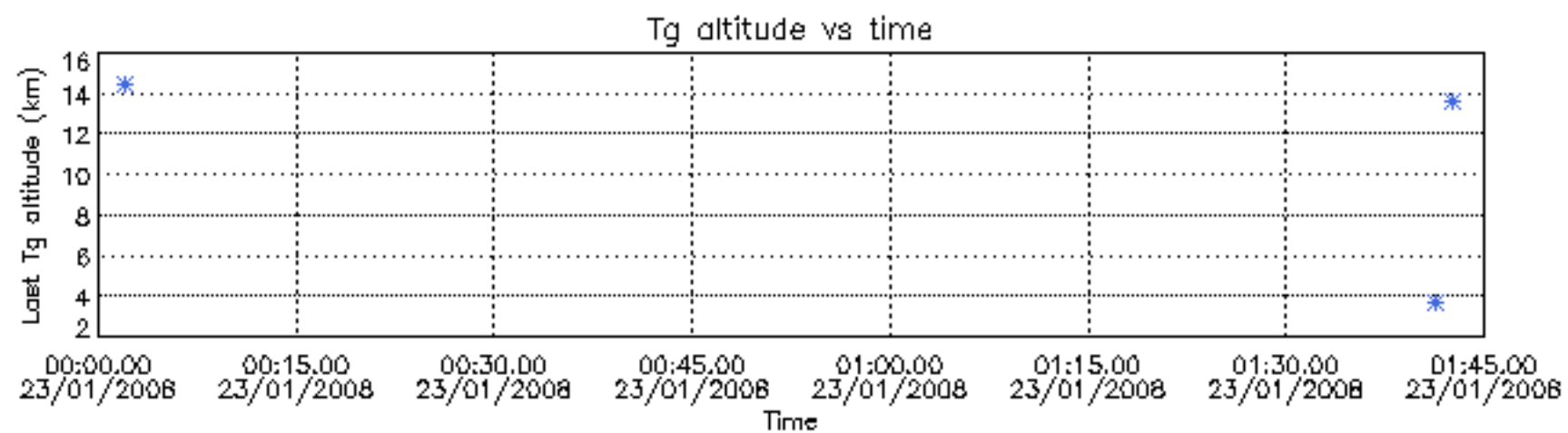
Tangent altitude at which the star is lost

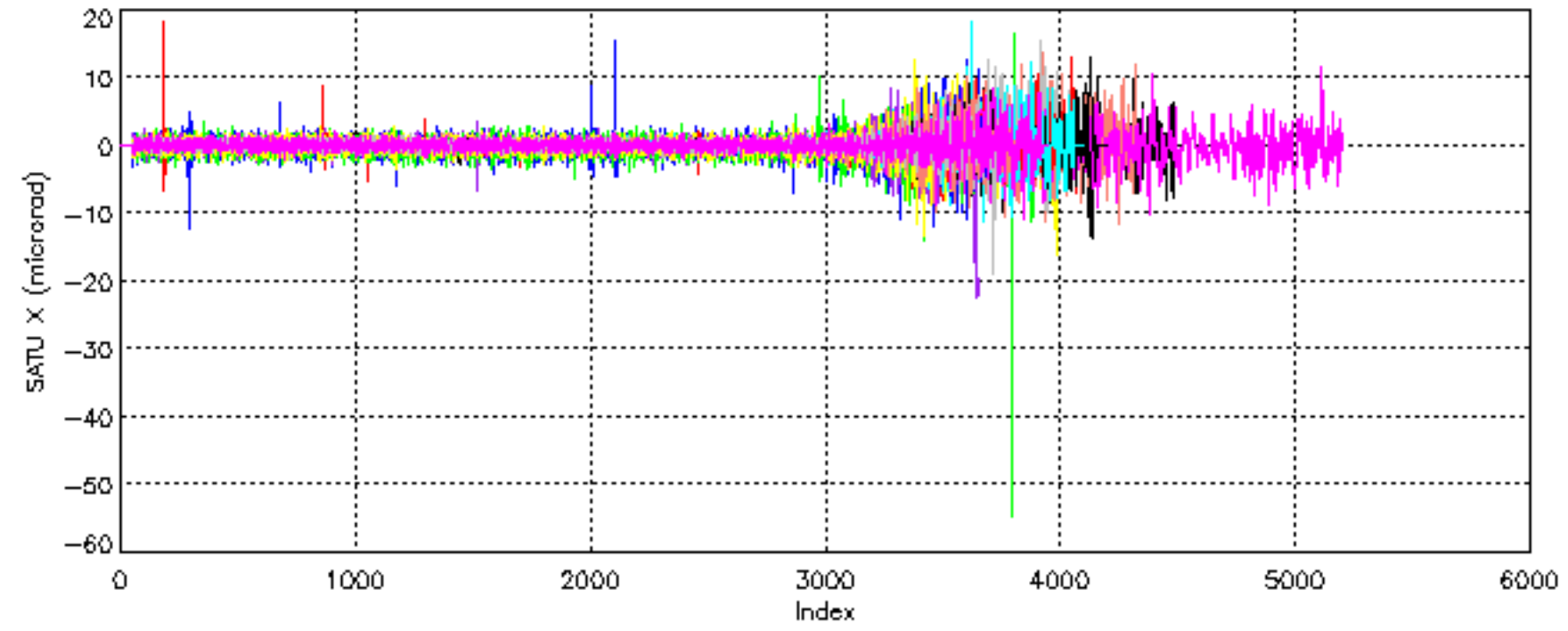


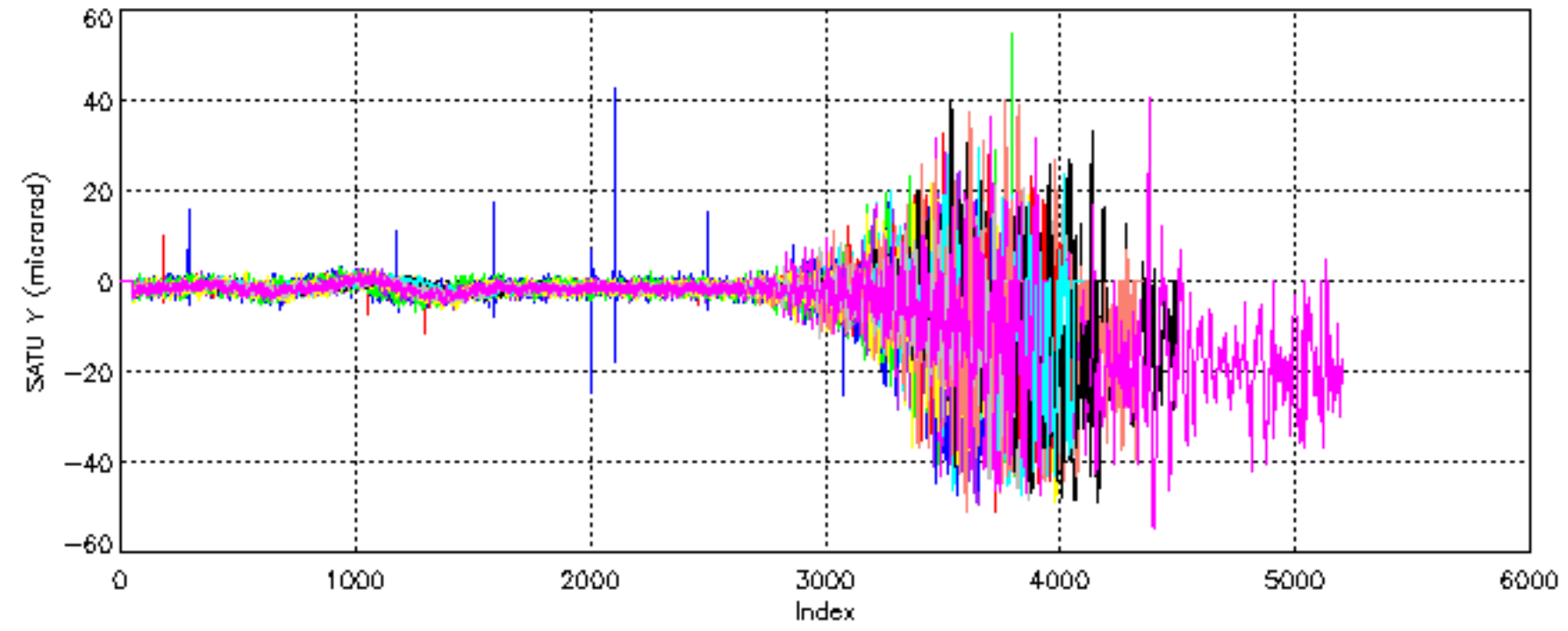
Tangent altitude at which the star is lost

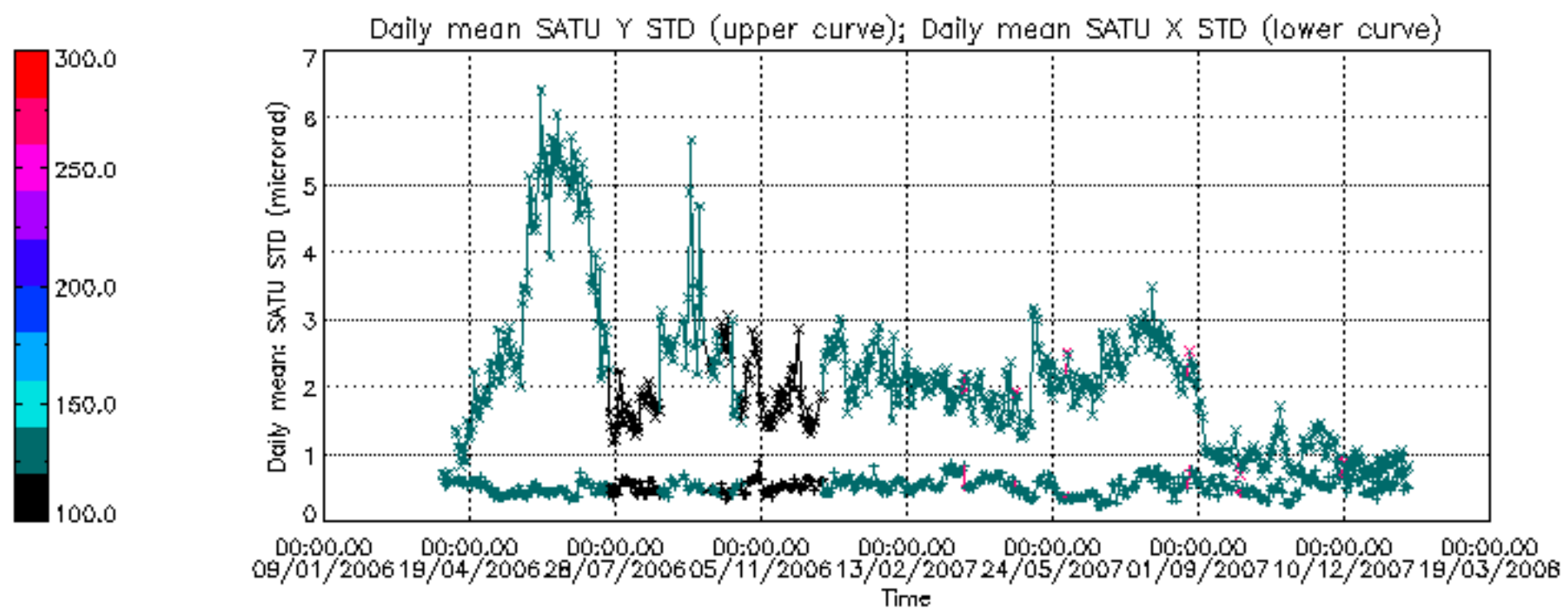


Tangent altitude at which the star is lost









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 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
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 13; 1881.1; 01-JAN-2008 02:12:10; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;30518
 14; 2033.3; 01-JAN-2008 02:14:42; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;30518
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 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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 7; -1007.4; 01-JAN-2008 03:04:38; Bright; 33.5; 120; 1Del Oph ; 2.73; 3200;occ; 67; 0;30518
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 13; -105.9; 01-JAN-2008 05:00:15; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;30519
 14; -2.0; 01-JAN-2008 05:01:59; Dark ; 52.0; 4; Alp1Cen ; -0.01; 5800;occ; 104; 0;30519
 15; 227.5; 01-JAN-2008 05:05:49; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;30520


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17; 546.0; 01-JAN-2008 05:11:07; Dark ; 41.5; 29; Bet Car ; 1.67; 10200;occ; 83; 0;30520
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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
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3; -1988.1; 01-JAN-2008 06:09:29; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;30520
4; -1614.5; 01-JAN-2008 06:15:42; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;30520
5; -1490.7; 01-JAN-2008 06:17:46; Bright; 55.0; 67; 5Alp CrB ; 2.22; 11000;occ; 110; 0;30520
6; -1146.4; 01-JAN-2008 06:23:31; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;30520
7; -1006.9; 01-JAN-2008 06:25:50; Bright; 33.0; 120; 1Del Oph ; 2.73; 3200;occ; 66; 0;30520
8; -843.1; 01-JAN-2008 06:28:34; Bright; 38.5; 104; 27Bet Lib ; 2.61; 13100;occ; 77; 0;30520
9; -684.5; 01-JAN-2008 06:31:13; Dark ; 46.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 93; 0;30520
10; -360.0; 01-JAN-2008 06:36:37; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30520
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12; -193.5; 01-JAN-2008 06:39:24; Dark ; 41.0; 78; Alp Lup ; 2.30; 28000;occ; 82; 0;30520
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19; 724.4; 01-JAN-2008 06:54:41; Dark ; 54.0; 41; Eps Car ; 1.86; 4100;occ; 108; 0;30521
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2; 1771.5; 02-JAN-2008 08:21:07; Dark ; 45.5; 7; 19Bet Ori ; 0.10; 14000;occ; 91; 0;30536
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8; 2692.0; 02-JAN-2008 08:36:28; Bright; 41.0; 6; 13Alp Aur ; 0.08; 3400;occ; 82; 0;30536
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12; 4050.7; 02-JAN-2008 08:59:07; Bright; 52.0; 130; 23Bet Dra ; 2.80; 5800;occ; 104; 0;30536
13; 4424.1; 02-JAN-2008 09:05:20; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;30536
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15; 4894.2; 02-JAN-2008 09:13:10; Bright; 36.0; 102; 24Alp Ser ; 2.60; 4250;occ; 72; 0;30536
16; 5032.8; 02-JAN-2008 09:15:29; Bright; 33.5; 120; 1Del Oph ; 2.73; 3200;occ; 67; 0;30536
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25; 6439.4; 02-JAN-2008 09:38:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30536
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27; 6673.4; 02-JAN-2008 09:42:49; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;30536
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30; 7359.5; 02-JAN-2008 09:54:15; Dark ; 36.5; 108; Alp Col ; 2.65; 15200;occ; 73; 0;30536
31; 7607.3; 02-JAN-2008 09:58:23; Dark ; 43.0; 47; 2Bet CMA ; 1.98; 28000;occ; 86; 0;30536
32; 7807.5; 02-JAN-2008 10:01:43; Dark ; 12.5; 7; 19Bet Ori ; 0.10; 14000;occ; 25; 0;30536
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 2; 1882.4; 02-JAN-2008 10:03:34; Dark ; 40.5; 30; 46Eps Ori ; 1.69; 30000;occ; 81; 0;30537
 3; 2032.4; 02-JAN-2008 10:06:04; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;30537
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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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13; 4548.4; 02-JAN-2008 10:48:00; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;30537
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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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27; 6767.9; 02-JAN-2008 11:25:00; Dark ; 50.5; 41; Eps Car ; 1.86; 4100;occ; 101; 0;30537
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29; 7359.6; 02-JAN-2008 11:34:51; Dark ; 38.0; 108; Alp Col ; 2.65; 15200;occ; 76; 0;30537
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 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
10; 3689.6; 02-JAN-2008 12:14:17; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;30538
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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 15; 4894.8; 02-JAN-2008 12:34:23; Bright; 40.0; 102; 24Alp Ser ; 2.60; 4250;occ; 80; 0;30538
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 17; 5200.8; 02-JAN-2008 12:39:29; Bright; 56.0; 104; 27Bet Lib ; 2.61; 13100;occ; 112; 0;30538
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 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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 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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 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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 7; 2473.0; 02-JAN-2008 13:34:37; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30539
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 12; 4051.3; 02-JAN-2008 14:00:55; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;30539
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 18; 5681.8; 02-JAN-2008 14:28:05; Dark ; 38.5; 131; Gam Lup ; 2.80; 26000;occ; 77; 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
 13; 4424.8; 02-JAN-2008 15:47:44; Bright; 33.5; 133; 40Zet Her ; 2.81; 6000;occ; 67; 0;30540
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 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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 22; 6040.8; 02-JAN-2008 16:14:40; Dark ; 52.0; 4; Alp1Cen ; -0.01; 5800;occ; 104; 0;30540
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16; 4427.4; 03-JAN-2008 21:58:34; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;30558
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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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3; 2031.6; 04-JAN-2008 09:02:49; Dark ; 46.0; 14; 58Alp Ori ; 0.87; 3000;occ; 92; 0;30565
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5; 2395.5; 04-JAN-2008 09:08:53; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30565
6; 2474.6; 04-JAN-2008 09:10:13; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30565
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8; 2690.3; 04-JAN-2008 09:13:48; Bright; 38.5; 6; 13Alp Aur ; 0.08; 3400;occ; 77; 0;30565
9; 3423.8; 04-JAN-2008 09:26:02; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;30565
10; 3686.8; 04-JAN-2008 09:30:25; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30565
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13; 4428.7; 04-JAN-2008 09:42:47; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 0;30565
14; 4553.6; 04-JAN-2008 09:44:52; Bright; 38.5; 67; 5Alp CrB ; 2.22; 11000;occ; 77; 0;30565
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17; 5214.0; 04-JAN-2008 09:55:52; Bright; 57.0; 104; 27Bet Lib ; 2.61; 13100;occ; 114; 0;30565
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23; 6049.0; 04-JAN-2008 10:09:47; Dark ; 40.5; 4; Alp1Cen ; -0.01; 5800;occ; 81; 0;30565
24; 6287.3; 04-JAN-2008 10:13:45; Dark ; 39.5; 12; Alp1Cru ; 0.77; 30000;occ; 79; 0;30565
25; 6447.8; 04-JAN-2008 10:16:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30565
26; 6598.4; 04-JAN-2008 10:18:56; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;30565
27; 6688.9; 04-JAN-2008 10:20:27; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30565
28; 6780.1; 04-JAN-2008 10:21:58; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0;30565
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31; 7387.9; 04-JAN-2008 10:32:06; Dark ; 35.0; 23; 21Eps CMA ; 1.50; 26000;occ; 70; 0;30565
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29; 6689.3; 04-JAN-2008 12:01:03; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30566
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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
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10; 3423.8; 04-JAN-2008 12:47:13; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;30567
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12; 3923.8; 04-JAN-2008 12:55:34; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30567
13; 4056.0; 04-JAN-2008 12:57:46; Bright; 48.0; 130; 23Bet Dra ; 2.80; 5800;occ; 96; 0;30567
14; 4429.1; 04-JAN-2008 13:03:59; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;30567
15; 4553.9; 04-JAN-2008 13:06:04; Bright; 46.5; 67; 5Alp CrB ; 2.22; 11000;occ; 93; 0;30567
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
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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
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6; 2395.5; 04-JAN-2008 14:10:41; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30568
7; 2474.9; 04-JAN-2008 14:12:00; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30568
8; 2557.6; 04-JAN-2008 14:13:23; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 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
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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
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 6; 993.1; 05-JAN-2008 09:54:30; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;30580
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 8; 2477.3; 06-JAN-2008 16:30:01; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30598
 9; 2689.5; 06-JAN-2008 16:33:33; Bright; 37.0; 6; 13Alp Aur ; 0.08; 3400;occ; 74; 0;30598
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 11; 3682.9; 06-JAN-2008 16:50:06; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;30598
 12; 3924.5; 06-JAN-2008 16:54:08; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;30598
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 16; 4914.9; 06-JAN-2008 17:10:38; Bright; 39.0; 102; 24Alp Ser ; 2.60; 4250;occ; 78; 0;30598
 17; 5050.0; 06-JAN-2008 17:12:54; Bright; 35.0; 120; 1Del Oph ; 2.73; 3200;occ; 70; 0;30598
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 22; 6060.7; 06-JAN-2008 17:29:44; Dark ; 53.0; 4; Alp1Cen ; -0.01; 5800;occ; 106; 0;30598
 23; 6304.6; 06-JAN-2008 17:33:48; Dark ; 49.5; 12; Alp1Cru ; 0.77; 30000;occ; 99; 0;30598
 24; 6457.5; 06-JAN-2008 17:36:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30598
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 15; 4060.9; 06-JAN-2008 18:37:00; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;30599
 16; 4434.0; 06-JAN-2008 18:43:14; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;30599
 17; 4612.4; 06-JAN-2008 18:46:12; Bright; 52.0; 127; 27Bet Her ; 2.78; 4700;occ; 104; 0;30599
 18; 4915.2; 06-JAN-2008 18:51:15; Bright; 38.5; 102; 24Alp Ser ; 2.60; 4250;occ; 77; 0;30599
 19; 5050.2; 06-JAN-2008 18:53:30; Bright; 53.0; 120; 1Del Oph ; 2.73; 3200;occ; 106; 0;30599
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 21; 5702.9; 06-JAN-2008 19:04:22; Dark ; 38.5; 131; Gam Lup ; 2.80; 26000;occ; 77; 0;30599
 22; 5791.4; 06-JAN-2008 19:05:51; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;30599
 23; 5881.1; 06-JAN-2008 19:07:21; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;30599
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4; 1580.4; 06-JAN-2008 19:36:16; Dark ; 40.5; 47; 2Bet CMa ; 1.98; 28000;occ; 81; 0;30600
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11; 2689.4; 06-JAN-2008 19:54:45; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;30600
12; 3424.0; 06-JAN-2008 20:07:00; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;30600
13; 3682.6; 06-JAN-2008 20:11:18; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;30600
14; 3924.4; 06-JAN-2008 20:15:20; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30600
15; 4061.1; 06-JAN-2008 20:17:37; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;30600
16; 4434.1; 06-JAN-2008 20:23:50; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;30600
17; 4612.7; 06-JAN-2008 20:26:48; Bright; 34.0; 127; 27Bet Her ; 2.78; 4700;occ; 68; 0;30600
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19; 5050.4; 06-JAN-2008 20:34:06; Bright; 42.5; 120; 1Del Oph ; 2.73; 3200;occ; 85; 0;30600
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21; 5703.2; 06-JAN-2008 20:44:59; Dark ; 35.5; 131; Gam Lup ; 2.80; 26000;occ; 71; 0;30600
22; 5791.8; 06-JAN-2008 20:46:27; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30600
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5; 270.2; 06-JAN-2008 22:35:38; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30602
6; 422.3; 06-JAN-2008 22:38:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30602
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14; 1781.2; 06-JAN-2008 23:00:49; Dark ; 42.5; 7; 19Bet Ori ; 0.10; 14000;occ; 85; 0;30602
15; 1887.8; 06-JAN-2008 23:02:35; Dark ; 40.5; 30; 46Eps Ori ; 1.69; 30000;occ; 81; 0;30602
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19; 2477.7; 06-JAN-2008 23:12:25; Bright; 36.0; 114; 3Iot Aur ; 2.69; 4600;occ; 72; 0;30602
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22; 3682.3; 06-JAN-2008 23:32:30; Bright; 33.5; 60; 7Bet UMi ; 2.08; 3950;occ; 67; 0;30602
23; 3924.3; 06-JAN-2008 23:36:32; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;30602
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13; 1361.3; 07-JAN-2008 00:34:24; Dark ; 45.0; 23; 21Eps CMA ; 1.50; 26000;occ; 90; 0;30603
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26; 4434.6; 07-JAN-2008 01:25:38; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 0;30603
27; 4613.2; 07-JAN-2008 01:28:36; Bright; 52.0; 127; 27Bet Her ; 2.78; 4700;occ; 104; 0;30603
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29; 7617.5; 07-JAN-2008 09:01:05; Dark ; 43.5; 47; 2Bet CMa ; 1.98; 28000;occ; 87; 0;30607
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 4; 2268.2; 07-JAN-2008 09:12:31; Bright; 35.5; 176; 23Zet Tau ; 3.02; 22000;occ; 71; 0;30608
 5; 2395.2; 07-JAN-2008 09:14:38; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30608

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7; 2689.5; 07-JAN-2008 09:19:32; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;30608
8; 3424.1; 07-JAN-2008 09:31:47; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;30608
9; 3681.6; 07-JAN-2008 09:36:05; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30608
10; 3924.6; 07-JAN-2008 09:40:08; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30608
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12; 4435.4; 07-JAN-2008 09:48:38; Bright; 49.5; 133; 40Zet Her ; 2.81; 6000;occ; 99; 0;30608
13; 4614.3; 07-JAN-2008 09:51:37; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;30608
14; 4918.5; 07-JAN-2008 09:56:41; Bright; 38.5; 102; 24Alp Ser ; 2.60; 4250;occ; 77; 0;30608
15; 5053.0; 07-JAN-2008 09:58:56; Bright; 34.0; 120; 1Del Oph ; 2.73; 3200;occ; 68; 0;30608
16; 5380.2; 07-JAN-2008 10:04:23; Dark ; 40.0; 80; 7Del Sco ; 2.32; 30000;occ; 80; 0;30608
17; 5706.4; 07-JAN-2008 10:09:49; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;30608
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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
25; 6797.8; 07-JAN-2008 10:28:01; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0;30608
26; 7035.8; 07-JAN-2008 10:31:59; Dark ; 44.0; 2; Alp Car ; -0.74; 7000;occ; 88; 0;30608
27; 7237.7; 07-JAN-2008 10:35:21; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;30608
28; 7398.8; 07-JAN-2008 10:38:02; Dark ; 44.5; 23; 21Eps CMa ; 1.50; 26000;occ; 89; 0;30608
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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
12; 4435.5; 07-JAN-2008 11:29:14; Bright; 43.5; 133; 40Zet Her ; 2.81; 6000;occ; 87; 0;30609
13; 4614.4; 07-JAN-2008 11:32:13; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;30609
14; 4918.8; 07-JAN-2008 11:37:18; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;30609
15; 5053.2; 07-JAN-2008 11:39:32; Bright; 35.0; 120; 1Del Oph ; 2.73; 3200;occ; 70; 0;30609
16; 5380.7; 07-JAN-2008 11:45:00; Dark ; 41.5; 80; 7Del Sco ; 2.32; 30000;occ; 83; 0;30609
17; 5706.9; 07-JAN-2008 11:50:26; Dark ; 38.5; 131; Gam Lup ; 2.80; 26000;occ; 77; 0;30609
18; 5796.4; 07-JAN-2008 11:51:55; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30609
19; 5886.2; 07-JAN-2008 11:53:25; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;30609
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21; 6310.4; 07-JAN-2008 12:00:29; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30609
22; 6460.4; 07-JAN-2008 12:02:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30609
23; 6613.6; 07-JAN-2008 12:05:32; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30609
24; 6711.4; 07-JAN-2008 12:07:10; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30609
25; 6798.2; 07-JAN-2008 12:08:37; Dark ; 39.0; 41; Eps Car ; 1.86; 4100;occ; 78; 0;30609
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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
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9; 3424.1; 07-JAN-2008 12:52:59; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30610
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11; 3924.6; 07-JAN-2008 13:01:19; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;30610
12; 4062.5; 07-JAN-2008 13:03:37; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;30610
13; 4435.7; 07-JAN-2008 13:09:50; Bright; 33.5; 133; 40Zet Her ; 2.81; 6000;occ; 67; 0;30610

14; 4614.7; 07-JAN-2008 13:12:49; Bright; 53.0; 127; 27Bet Her ; 2.78; 4700;occ; 106; 0;30610
 15; 4919.2; 07-JAN-2008 13:17:54; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;30610
 16; 5053.5; 07-JAN-2008 13:20:08; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;30610
 17; 5380.9; 07-JAN-2008 13:25:36; Dark ; 41.5; 80; 7Del Sco ; 2.32; 30000;occ; 83; 0;30610
 18; 5707.2; 07-JAN-2008 13:31:02; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30610
 19; 5797.0; 07-JAN-2008 13:32:32; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30610
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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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 4; 2031.5; 07-JAN-2008 14:10:22; Dark ; 46.5; 14; 58Alp Ori ; 0.87; 3000;occ; 93; 0;30611
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 7; 2478.9; 07-JAN-2008 14:17:49; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 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
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 11; 3924.6; 07-JAN-2008 14:41:55; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30611
 12; 4062.8; 07-JAN-2008 14:44:13; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;30611
 13; 4436.0; 07-JAN-2008 14:50:27; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;30611
 14; 4615.0; 07-JAN-2008 14:53:26; Bright; 41.5; 127; 27Bet Her ; 2.78; 4700;occ; 83; 0;30611
 15; 4919.7; 07-JAN-2008 14:58:30; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;30611
 16; 5053.9; 07-JAN-2008 15:00:45; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;30611
 17; 5381.4; 07-JAN-2008 15:06:12; Dark ; 40.0; 80; 7Del Sco ; 2.32; 30000;occ; 80; 0;30611
 18; 5707.7; 07-JAN-2008 15:11:38; Dark ; 36.5; 131; Gam Lup ; 2.80; 26000;occ; 73; 0;30611
 19; 5797.5; 07-JAN-2008 15:13:08; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30611
 20; 5887.4; 07-JAN-2008 15:14:38; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;30611
 21; 6065.4; 07-JAN-2008 15:17:36; Dark ; 49.0; 4; Alp1Cen ;-0.01; 5800;occ; 98; 0;30611
 22; 6311.5; 07-JAN-2008 15:21:42; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;30611
 23; 6461.1; 07-JAN-2008 15:24:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30611
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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
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 16; 4920.1; 07-JAN-2008 16:39:07; Bright; 38.0; 102; 24Alp Ser ; 2.60; 4250;occ; 76; 0;30612
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 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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23; 6312.2; 07-JAN-2008 17:02:19; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30612
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27; 6799.6; 07-JAN-2008 17:10:26; Dark ; 46.0; 41; Eps Car ; 1.86; 4100;occ; 92; 0;30612
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 4; 1783.1; 07-JAN-2008 17:27:26; Dark ; 50.0; 7; 19Bet Ori ; 0.10; 14000;occ; 100; 0;30613
 5; 1889.1; 07-JAN-2008 17:29:12; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;30613
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 7; 2268.0; 07-JAN-2008 17:35:31; Bright; 36.5; 176; 23Zet Tau ; 3.02; 22000;occ; 73; 0;30613
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31;	7498.9;	11-JAN-2008	08:33:14;	Dark	;	39.0;	179;	240mi2CMa	;	3.03;	24000;occ;	78;	0;	30664
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5;	2397.8;	11-JAN-2008	08:48:49;	Bright;		37.0;	28;	12Bet Tau	;	1.65;	15200;occ;	74;	0;	30665
6;	2486.7;	11-JAN-2008	08:50:18;	Bright;		37.0;	114;	3Iot Aur	;	2.69;	4600;occ;	74;	0;	30665
7;	2676.3;	11-JAN-2008	08:53:27;	Bright;		37.0;	42;	34Bet Aur	;	1.90;	10200;occ;	74;	0;	30665
8;	3424.7;	11-JAN-2008	09:05:56;	Bright;		32.0;	49;	1Alp UMi	;	1.99;	6300;occ;	64;	0;	30665
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11;	4069.9;	11-JAN-2008	09:16:41;	Bright;		34.0;	130;	23Bet Dra	;	2.80;	5800;occ;	68;	0;	30665
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19;	5827.4;	11-JAN-2008	09:45:58;	Dark	;	39.5;	109;	Bet Lup	;	2.68;	26000;occ;	79;	0;	30665
20;	5917.8;	11-JAN-2008	09:47:29;	Dark	;	39.5;	78;	Alp Lup	;	2.30;	28000;occ;	79;	0;	30665
21;	6029.6;	11-JAN-2008	09:49:21;	Dark	;	31.0;	95;	Zet Cen	;	2.55;	26000;occ;	62;	0;	30665
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23;	6297.8;	11-JAN-2008	09:53:49;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	30665
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25;	6632.6;	11-JAN-2008	09:59:24;	Dark	;	35.5;	29;	Bet Car	;	1.67;	10200;occ;	71;	0;	30665
26;	6738.7;	11-JAN-2008	10:01:10;	Dark	;	39.0;	71;	Iot Car	;	2.25;	7700;occ;	78;	0;	30665
27;	6820.2;	11-JAN-2008	10:02:31;	Dark	;	46.0;	41;	Eps Car	;	1.86;	4100;occ;	92;	0;	30665
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29;	7255.0;	11-JAN-2008	10:09:46;	Dark	;	44.0;	117;	Pi Pup	;	2.71;	3800;occ;	88;	0;	30665
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32;	7635.9;	11-JAN-2008	10:16:07;	Dark	;	46.5;	1;	9Alp CMa	;	-1.44;	11000;occ;	93;	0;	30665

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6; 2486.8; 11-JAN-2008 10:30:54; Bright; 36.5; 114; 3Iot Aur ; 2.69; 4600;occ; 73; 0;30666
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 27; 7215.3; 25-JAN-2008 11:09:27; Dark ; 38.0; 70; Zet Pup ; 2.25; 39000;occ; 76; 0;30866
 28; 7304.4; 25-JAN-2008 11:10:57; Dark ; 41.5; 117; Pi Pup ; 2.71; 3800;occ; 83; 0;30866
 29; 7452.4; 25-JAN-2008 11:13:25; Dark ; 39.5; 23; 21Eps CMa ; 1.50; 26000;occ; 79; 0;30866
 30; 7535.4; 25-JAN-2008 11:14:48; Dark ; 36.5; 179; 240mi2CMa ; 3.03; 24000;occ; 73; 0;30866
 31; 7665.0; 25-JAN-2008 11:16:57; Dark ; 36.5; 1; 9Alp CMa ; -1.44; 11000;occ; 73; 0;30866

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 2; 2061.4; 25-JAN-2008 11:24:09; Dark ; 47.5; 14; 58Alp Ori ; 0.87; 3000;occ; 95; 0;30867
 3; 2188.7; 25-JAN-2008 11:26:17; Bright; 39.0; 44; 24Gam Gem ; 1.93; 11000;occ; 78; 0;30867
 4; 2295.5; 25-JAN-2008 11:28:04; Bright; 38.5; 151; 13Mu Gem ; 2.89; 3000;occ; 77; 0;30867
 5; 2434.4; 25-JAN-2008 11:30:22; Bright; 37.0; 28; 12Bet Tau ; 1.65; 15200;occ; 74; 0;30867
 6; 2549.4; 25-JAN-2008 11:32:17; Bright; 34.0; 107; 37The Aur ; 2.65; 11000;occ; 68; 0;30867
 7; 2677.4; 25-JAN-2008 11:34:25; Bright; 35.0; 42; 34Bet Aur ; 1.90; 10200;occ; 70; 0;30867
 8; 3426.7; 25-JAN-2008 11:46:55; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30867
 9; 4085.7; 25-JAN-2008 11:57:54; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;30867
 10; 4289.7; 25-JAN-2008 12:01:18; Bright; 35.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 70; 0;30867
 11; 4771.1; 25-JAN-2008 12:09:19; Bright; 34.5; 59; 55Alp Oph ; 2.08; 8900;occ; 69; 0;30867
 12; 4897.6; 25-JAN-2008 12:11:26; Bright; 34.0; 126; 60Bet Oph ; 2.77; 4250;occ; 68; 0;30867
 13; 5270.2; 25-JAN-2008 12:17:38; Dark ; 40.0; 86; 35Eta Oph ; 2.43; 10200;occ; 80; 0;30867
 14; 5525.5; 25-JAN-2008 12:21:53; Dark ; 38.0; 136; 23Tau Sco ; 2.82; 30000;occ; 76; 0;30867
 15; 5613.2; 25-JAN-2008 12:23:21; Dark ; 39.5; 85; Kap Sco ; 2.41; 28000;occ; 79; 0;30867
 16; 5681.1; 25-JAN-2008 12:24:29; Dark ; 40.0; 40; The Sco ; 1.86; 7100;occ; 80; 0;30867
 17; 5796.0; 25-JAN-2008 12:26:24; Dark ; 36.0; 147; Alp Ara ; 2.88; 26000;occ; 72; 0;30867
 18; 5891.1; 25-JAN-2008 12:27:59; Dark ; 40.5; 141; Bet Ara ; 2.84; 4600;occ; 81; 0;30867
 19; 6092.6; 25-JAN-2008 12:31:21; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;30867
 20; 6178.1; 25-JAN-2008 12:32:46; Dark ; 41.5; 4; Alp1Cen ; -0.01; 5800;occ; 83; 0;30867
 21; 6351.9; 25-JAN-2008 12:35:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30867
 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
 24; 6824.7; 25-JAN-2008 12:43:33; Dark ; 37.5; 71; Iot Car ; 2.25; 7700;occ; 75; 0;30867
 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
 30; 7535.7; 25-JAN-2008 12:55:24; Dark ; 38.0; 179; 240mi2CMa ; 3.03; 24000;occ; 76; 0;30867

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 2; 1499.9; 25-JAN-2008 14:36:00; Dark ; 39.5; 179; 240mi2CMa ; 3.03; 24000;occ; 79; 0;30869
 3; 1629.5; 25-JAN-2008 14:38:09; Dark ; 43.5; 1; 9Alp CMa ; -1.44; 11000;occ; 87; 0;30869
 4; 2061.8; 25-JAN-2008 14:45:22; Dark ; 52.0; 14; 58Alp Ori ; 0.87; 3000;occ; 104; 0;30869
 5; 2188.9; 25-JAN-2008 14:47:29; Bright; 39.0; 44; 24Gam Gem ; 1.93; 11000;occ; 78; 0;30869
 6; 2295.8; 25-JAN-2008 14:49:16; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;30869
 7; 2435.1; 25-JAN-2008 14:51:35; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30869
 8; 2549.6; 25-JAN-2008 14:53:29; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;30869
 9; 2677.6; 25-JAN-2008 14:55:37; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;30869
 10; 3426.9; 25-JAN-2008 15:08:07; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;30869
 11; 4086.1; 25-JAN-2008 15:19:06; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;30869
 12; 4290.1; 25-JAN-2008 15:22:30; Bright; 37.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 74; 0;30869
 13; 4771.7; 25-JAN-2008 15:30:31; Bright; 34.0; 59; 55Alp Oph ; 2.08; 8900;occ; 68; 0;30869
 14; 4898.1; 25-JAN-2008 15:32:38; Bright; 34.0; 126; 60Bet Oph ; 2.77; 4250;occ; 68; 0;30869

15; 5271.2; 25-JAN-2008 15:38:51; Dark ; 40.5; 86; 35Eta Oph ; 2.43; 10200;occ; 81; 0;30869
 16; 5526.7; 25-JAN-2008 15:43:06; Dark ; 40.5; 136; 23Tau Sco ; 2.82; 30000;occ; 81; 0;30869
 17; 5613.9; 25-JAN-2008 15:44:34; Dark ; 38.5; 85; Kap Sco ; 2.41; 28000;occ; 77; 0;30869
 18; 5681.7; 25-JAN-2008 15:45:41; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;30869
 19; 5796.6; 25-JAN-2008 15:47:36; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;30869
 20; 5891.5; 25-JAN-2008 15:49:11; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;30869
 21; 6093.4; 25-JAN-2008 15:52:33; Dark ; 38.0; 134; Bet TrA ; 2.81; 6600;occ; 76; 0;30869
 22; 6179.3; 25-JAN-2008 15:53:59; Dark ; 52.5; 4; Alp1Cen ; -0.01; 5800;occ; 105; 0;30869
 23; 6352.6; 25-JAN-2008 15:56:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30869
 24; 6453.1; 25-JAN-2008 15:58:33; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30869
 25; 6693.6; 25-JAN-2008 16:02:33; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;30869
 26; 6825.5; 25-JAN-2008 16:04:45; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30869
 27; 6933.8; 25-JAN-2008 16:06:34; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;30869
 28; 7089.8; 25-JAN-2008 16:09:10; Dark ; 42.0; 34; Gam2Vel ; 1.79; 23000;occ; 84; 0;30869
 29; 7216.0; 25-JAN-2008 16:11:16; Dark ; 42.5; 70; Zet Pup ; 2.25; 39000;occ; 85; 0;30869
 30; 7305.1; 25-JAN-2008 16:12:45; Dark ; 4.5; 117; Pi Pup ; 2.71; 3800;occ; 9; 0;30869

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 2; 1417.0; 25-JAN-2008 16:15:13; Dark ; 41.0; 23; 21Eps CMA ; 1.50; 26000;occ; 82; 0;30870
 3; 1499.9; 25-JAN-2008 16:16:36; Dark ; 38.5; 179; 240mi2CMA ; 3.03; 24000;occ; 77; 0;30870
 4; 1629.6; 25-JAN-2008 16:18:45; Dark ; 43.5; 1; 9Alp CMA ; -1.44; 11000;occ; 87; 0;30870
 5; 2061.9; 25-JAN-2008 16:25:58; Dark ; 52.0; 14; 58Alp Ori ; 0.87; 3000;occ; 104; 0;30870
 6; 2188.9; 25-JAN-2008 16:28:05; Bright; 37.5; 44; 24Gam Gem ; 1.93; 11000;occ; 75; 0;30870
 7; 2295.7; 25-JAN-2008 16:29:51; Bright; 39.0; 151; 13Mu Gem ; 2.89; 3000;occ; 78; 0;30870
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 9; 2549.7; 25-JAN-2008 16:34:05; Bright; 34.5; 107; 37The Aur ; 2.65; 11000;occ; 69; 0;30870
 10; 2677.7; 25-JAN-2008 16:36:13; Bright; 52.0; 42; 34Bet Aur ; 1.90; 10200;occ; 104; 0;30870
 11; 3426.8; 25-JAN-2008 16:48:43; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;30870
 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
 14; 4771.9; 25-JAN-2008 17:11:08; Bright; 34.5; 59; 55Alp Oph ; 2.08; 8900;occ; 69; 0;30870
 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
 18; 5614.0; 25-JAN-2008 17:25:10; Dark ; 38.5; 85; Kap Sco ; 2.41; 28000;occ; 77; 0;30870
 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
 21; 5891.7; 25-JAN-2008 17:29:47; Dark ; 45.5; 141; Bet Ara ; 2.84; 4600;occ; 91; 0;30870
 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
 28; 6934.1; 25-JAN-2008 17:47:10; Dark ; 43.5; 46; Del Vel ; 1.95; 10600;occ; 87; 0;30870
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 3; 1269.3; 25-JAN-2008 17:53:21; Dark ; 41.5; 117; Pi Pup ; 2.71; 3800;occ; 83; 0;30871
 4; 1417.2; 25-JAN-2008 17:55:49; Dark ; 38.5; 23; 21Eps CMA ; 1.50; 26000;occ; 77; 0;30871
 5; 1500.1; 25-JAN-2008 17:57:12; Dark ; 38.5; 179; 240mi2CMA ; 3.03; 24000;occ; 77; 0;30871
 6; 1629.7; 25-JAN-2008 17:59:22; Dark ; 46.5; 1; 9Alp CMA ; -1.44; 11000;occ; 93; 0;30871
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 8; 2189.0; 25-JAN-2008 18:08:41; Bright; 37.0; 44; 24Gam Gem ; 1.93; 11000;occ; 74; 0;30871
 9; 2295.7; 25-JAN-2008 18:10:27; Bright; 40.0; 151; 13Mu Gem ; 2.89; 3000;occ; 80; 0;30871
 10; 2435.5; 25-JAN-2008 18:12:47; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30871
 11; 2549.8; 25-JAN-2008 18:14:42; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;30871
 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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 15; 4290.3; 25-JAN-2008 18:43:42; Bright; 34.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 69; 0;30871
 16; 4772.1; 25-JAN-2008 18:51:44; Bright; 53.0; 59; 55Alp Oph ; 2.08; 8900;occ; 106; 0;30871
 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
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 21; 5682.0; 25-JAN-2008 19:06:54; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;30871

22; 5796.8; 25-JAN-2008 19:08:49; Dark ; 36.5; 147; Alp Ara ; 2.88; 26000;occ; 73; 0;30871
 23; 5891.9; 25-JAN-2008 19:10:24; Dark ; 36.5; 141; Bet Ara ; 2.84; 4600;occ; 73; 0;30871
 24; 6093.9; 25-JAN-2008 19:13:46; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;30871
 25; 6180.2; 25-JAN-2008 19:15:12; Dark ; 41.5; 4; Alp1Cen ;-0.01; 5800;occ; 83; 0;30871
 26; 6353.2; 25-JAN-2008 19:18:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30871
 27; 6454.2; 25-JAN-2008 19:19:46; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30871
 28; 6694.0; 25-JAN-2008 19:23:46; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;30871
 29; 6826.2; 25-JAN-2008 19:25:58; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;30871
 30; 6934.4; 25-JAN-2008 19:27:46; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;30871
 31; 7090.4; 25-JAN-2008 19:30:22; Dark ; 8.5; 34; Gam2Vel ; 1.79; 23000;occ; 17; 0;30871

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 5; 1500.3; 25-JAN-2008 19:37:48; Dark ; 38.0; 179; 240mi2CMA ; 3.03; 24000;occ; 76; 0;30872
 6; 1629.9; 25-JAN-2008 19:39:58; Dark ; 45.0; 1; 9Alp CMA ;-1.44; 11000;occ; 90; 0;30872
 7; 2062.4; 25-JAN-2008 19:47:10; Dark ; 52.0; 14; 58Alp Ori ; 0.87; 3000;occ; 104; 0;30872
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 9; 2295.9; 25-JAN-2008 19:51:04; Bright; 39.5; 151; 13Mu Gem ; 2.89; 3000;occ; 79; 0;30872
 10; 2435.8; 25-JAN-2008 19:53:24; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;30872
 11; 2549.8; 25-JAN-2008 19:55:18; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;30872
 12; 2677.9; 25-JAN-2008 19:57:26; Bright; 34.5; 42; 34Bet Aur ; 1.90; 10200;occ; 69; 0;30872
 13; 3426.8; 25-JAN-2008 20:09:55; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;30872
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 15; 4290.4; 25-JAN-2008 20:24:18; Bright; 36.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 73; 0;30872
 16; 4772.2; 25-JAN-2008 20:32:20; Bright; 53.0; 59; 55Alp Oph ; 2.08; 8900;occ; 106; 0;30872
 17; 4898.7; 25-JAN-2008 20:34:26; Bright; 35.0; 126; 60Bet Oph ; 2.77; 4250;occ; 70; 0;30872
 18; 5272.1; 25-JAN-2008 20:40:40; Dark ; 40.5; 86; 35Eta Oph ; 2.43; 10200;occ; 81; 0;30872
 19; 5528.2; 25-JAN-2008 20:44:56; Dark ; 40.0; 136; 23Tau Sco ; 2.82; 30000;occ; 80; 0;30872
 20; 5614.1; 25-JAN-2008 20:46:22; Dark ; 37.5; 85; Kap Sco ; 2.41; 28000;occ; 75; 0;30872
 21; 5682.1; 25-JAN-2008 20:47:30; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;30872
 22; 5796.9; 25-JAN-2008 20:49:25; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;30872
 23; 5891.9; 25-JAN-2008 20:51:00; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;30872
 24; 6094.1; 25-JAN-2008 20:54:22; Dark ; 37.5; 134; Bet TrA ; 2.81; 6600;occ; 75; 0;30872
 25; 6180.6; 25-JAN-2008 20:55:48; Dark ; 41.0; 4; Alp1Cen ;-0.01; 5800;occ; 82; 0;30872
 26; 6353.4; 25-JAN-2008 20:58:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30872
 27; 6454.6; 25-JAN-2008 21:00:22; Dark ; 44.5; 12; Alp1Cru ; 0.77; 30000;occ; 89; 0;30872
 28; 6694.2; 25-JAN-2008 21:04:22; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30872
 29; 6826.5; 25-JAN-2008 21:06:34; Dark ; 38.0; 71; Iot Car ; 2.25; 7700;occ; 76; 0;30872
 30; 6934.6; 25-JAN-2008 21:08:22; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;30872
 31; 7090.6; 25-JAN-2008 21:10:58; Dark ; 31.5; 34; Gam2Vel ; 1.79; 23000;occ; 63; 0;30872

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13; 428.7; 27-JAN-2008 03:11:19; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30891
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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
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16;	1422.8;	27-JAN-2008	21:54:28;	Dark	;	38.5;	23;	21Eps CMA	;	1.50;	26000;occ;	77;	0;	30902
17;	1505.6;	27-JAN-2008	21:55:51;	Dark	;	32.0;	179;	240mi2CMA	;	3.03;	24000;occ;	64;	0;	30902
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19;	2047.1;	27-JAN-2008	22:04:53;	Dark	;	38.0;	153;	3Bet CMI	;	2.89;	13100;occ;	76;	0;	30902
20;	2191.5;	27-JAN-2008	22:07:17;	Bright;		38.0;	44;	24Gam Gem	;	1.93;	11000;occ;	76;	0;	30902
21;	2299.3;	27-JAN-2008	22:09:05;	Bright;		37.5;	151;	13Mu Gem	;	2.89;	3000;occ;	75;	0;	30902
22;	2554.6;	27-JAN-2008	22:13:20;	Bright;		34.5;	107;	37The Aur	;	2.65;	11000;occ;	69;	0;	30902
23;	2681.6;	27-JAN-2008	22:15:27;	Bright;		37.0;	42;	34Bet Aur	;	1.90;	10200;occ;	74;	0;	30902
24;	3427.2;	27-JAN-2008	22:27:53;	Bright;		37.0;	49;	1Alp UMi	;	1.99;	6300;occ;	74;	0;	30902
25;	4086.8;	27-JAN-2008	22:38:52;	Bright;		37.0;	130;	23Bet Dra	;	2.80;	5800;occ;	74;	0;	30902
26;	4295.3;	27-JAN-2008	22:42:21;	Bright;		37.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	74;	0;	30902
27;	4779.7;	27-JAN-2008	22:50:25;	Bright;		53.0;	59;	55Alp Oph	;	2.08;	8900;occ;	106;	0;	30902
28;	4906.6;	27-JAN-2008	22:52:32;	Bright;		34.5;	126;	60Bet Oph	;	2.77;	4250;occ;	69;	0;	30902
29;	5284.1;	27-JAN-2008	22:58:50;	Dark	;	42.0;	86;	35Eta Oph	;	2.43;	10200;occ;	84;	0;	30902
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3;	-347.3;	27-JAN-2008	23:05:34;	Dark	;	38.5;	40;	The Sco	;	1.86;	7100;occ;	77;	0;	30902
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19;	2191.6;	27-JAN-2008	23:47:53;	Bright;		37.5;	44;	24Gam Gem	;	1.93;	11000;occ;	75;	0;	30903
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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
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 25; 7230.8; 29-JAN-2008 12:24:26; Dark ; 40.0; 70; Zet Pup ; 2.25; 39000;occ; 80; 0;30924
 26; 7315.9; 29-JAN-2008 12:25:52; Dark ; 38.0; 117; Pi Pup ; 2.71; 3800;occ; 76; 0;30924
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 28; 7545.3; 29-JAN-2008 12:29:41; Dark ; 35.5; 179; 240mi2CMa ; 3.03; 24000;occ; 71; 0;30924

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 3; 1638.6; 29-JAN-2008 12:31:50; Dark ; 45.5; 1; 9Alp CMa ; -1.44; 11000;occ; 91; 0;30925
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 5; 2193.9; 29-JAN-2008 12:41:05; Bright; 38.5; 44; 24Gam Gem ; 1.93; 11000;occ; 77; 0;30925
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 7; 2558.8; 29-JAN-2008 12:47:10; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;30925
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 9; 3427.6; 29-JAN-2008 13:01:39; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;30925
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 12; 4785.8; 29-JAN-2008 13:24:17; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;30925
 13; 4913.0; 29-JAN-2008 13:26:25; Bright; 35.0; 126; 60Bet Oph ; 2.77; 4250;occ; 70; 0;30925
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 19; 6112.4; 29-JAN-2008 13:46:24; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;30925
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21; 6368.0; 29-JAN-2008 13:50:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30925
 22; 6483.7; 29-JAN-2008 13:52:35; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30925
 23; 6708.2; 29-JAN-2008 13:56:20; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30925
 24; 6845.7; 29-JAN-2008 13:58:37; Dark ; 37.5; 71; Iot Car ; 2.25; 7700;occ; 75; 0;30925
 25; 6952.1; 29-JAN-2008 14:00:24; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;30925
 26; 7105.5; 29-JAN-2008 14:02:57; Dark ; 42.5; 34; Gam2Vel ; 1.79; 23000;occ; 85; 0;30925
 27; 7231.1; 29-JAN-2008 14:05:03; Dark ; 40.0; 70; Zet Pup ; 2.25; 39000;occ; 80; 0;30925
 28; 7316.2; 29-JAN-2008 14:06:28; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;30925
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 9; 3427.6; 29-JAN-2008 14:42:15; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30926
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 28; 7316.3; 29-JAN-2008 15:47:04; Dark ; 7.0; 117; Pi Pup ; 2.71; 3800;occ; 14; 0;30926

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 14; 4913.6; 29-JAN-2008 16:47:37; Bright; 53.0; 126; 60Bet Oph ; 2.77; 4250;occ; 106; 0;30927
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 22; 6368.7; 29-JAN-2008 17:11:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30927
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3; 1280.6; 29-JAN-2008 17:27:40; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;30928
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5; 1510.1; 29-JAN-2008 17:31:29; Dark ; 37.5; 179; 240mi2CMA ; 3.03; 24000;occ; 75; 0;30928
6; 1639.1; 29-JAN-2008 17:33:38; Dark ; 45.5; 1; 9Alp CMA ; -1.44; 11000;occ; 91; 0;30928
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19; 5626.9; 29-JAN-2008 18:40:06; Dark ; 39.5; 85; Kap Sco ; 2.41; 28000;occ; 79; 0;30928
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21; 5808.9; 29-JAN-2008 18:43:08; Dark ; 36.5; 147; Alp Ara ; 2.88; 26000;occ; 73; 0;30928
22; 5903.1; 29-JAN-2008 18:44:42; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;30928
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25; 6369.0; 29-JAN-2008 18:52:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30928
26; 6485.4; 29-JAN-2008 18:54:25; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30928
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13; 4087.2; 29-JAN-2008 19:55:03; Bright; 54.0; 130; 23Bet Dra ; 2.80; 5800;occ; 108; 0;30929
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16; 4914.1; 29-JAN-2008 20:08:49; Bright; 53.0; 126; 60Bet Oph ; 2.77; 4250;occ; 106; 0;30929
17; 5295.9; 29-JAN-2008 20:15:11; Dark ; 43.5; 86; 35Eta Oph ; 2.43; 10200;occ; 87; 0;30929
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25; 6369.2; 29-JAN-2008 20:33:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30929
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