

GOMOS Daily Report 22-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 11:12:53
Data source version	GOMOS/5.00
Start time of products	22-01-2008 (22JAN2008 00:00:00)
Stop time of products	23-01-2008 (23JAN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

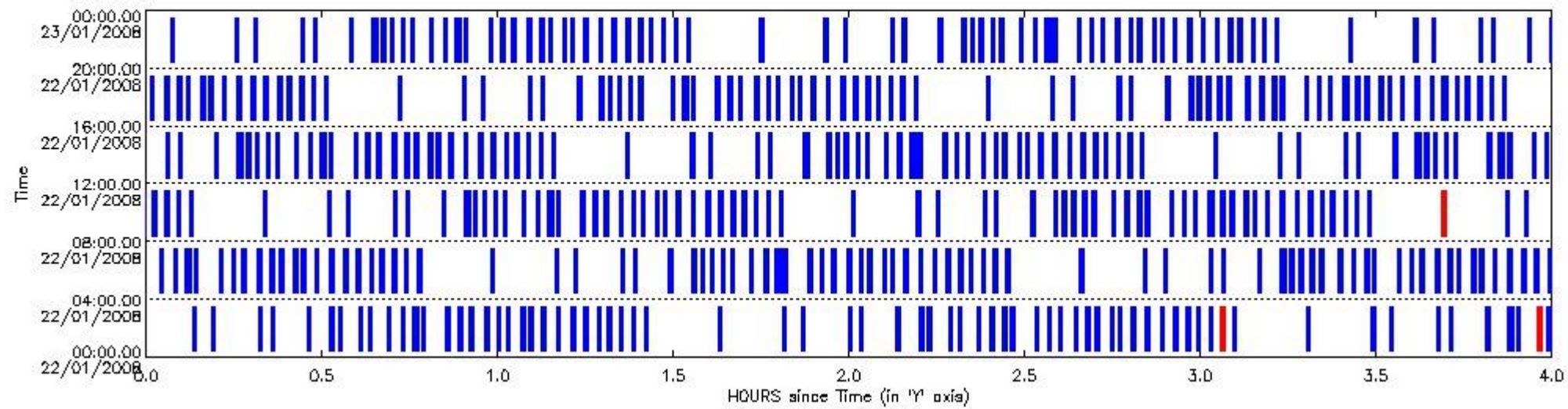
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

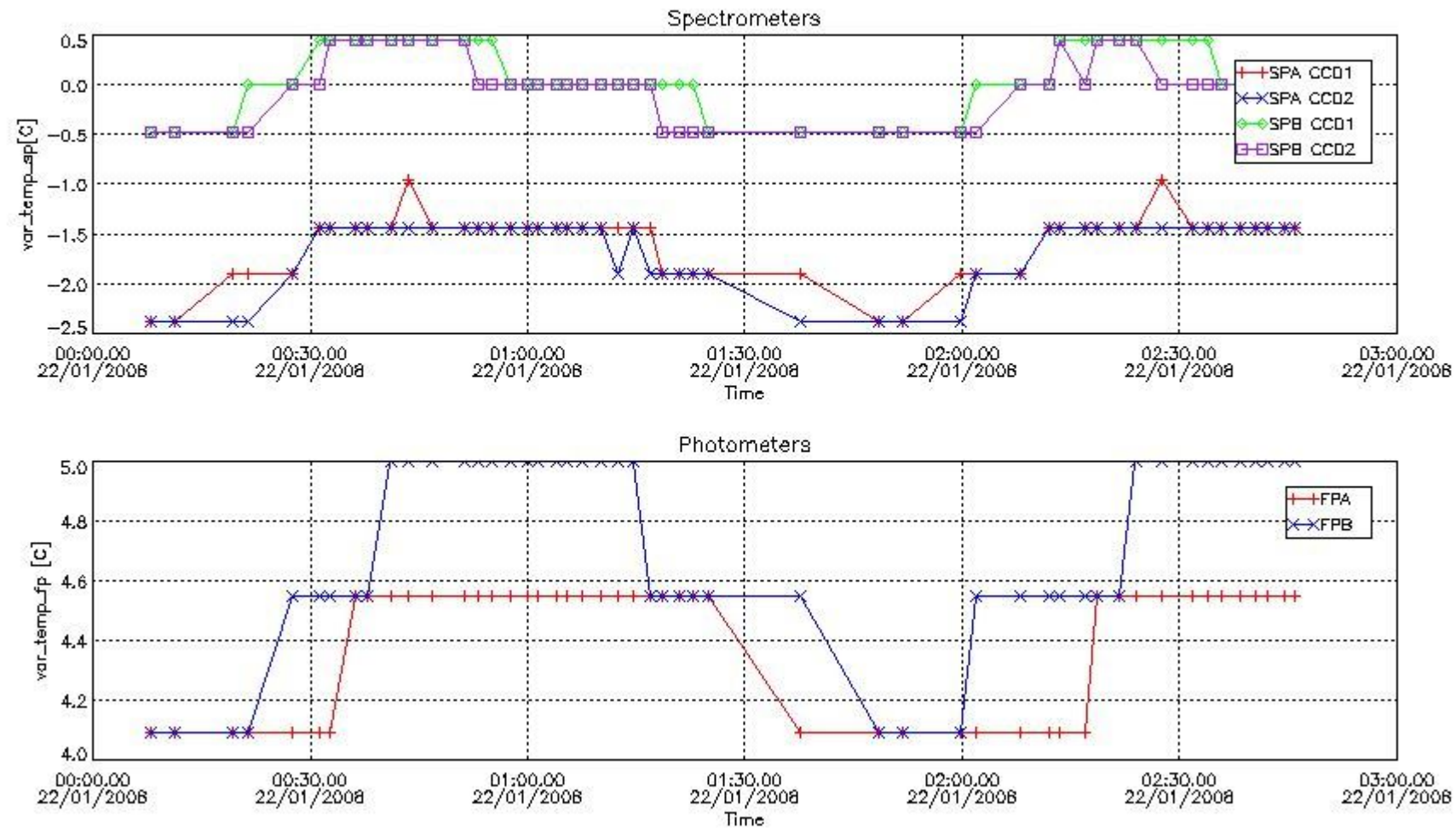
UTC start time	Star name	Star ID	Orbit
22-JAN-2008 03:03:26	37TheAur	107	30819
22-JAN-2008 03:57:30	AlpAra	147	30819
22-JAN-2008 11:41:08	1AlpUMi	49	30824

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_1PNPDE20080122_000755_000000372065_00202_30817_6642.N1	22-JAN-2008 00:07:55	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	30817	No
2	GOM_TRA_1PNPDE20080122_001113_000000362065_00202_30817_6643.N1	22-JAN-2008 00:11:13	Bright	35.500	5	3Alp Lyr	0.033000	11000.	71	30817	No
3	GOM_TRA_1PNPDE20080122_001911_000000342065_00202_30817_6644.N1	22-JAN-2008 00:19:11	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	30817	No
4	GOM_TRA_1PNPDE20080122_002118_000000342065_00202_30817_6645.N1	22-JAN-2008 00:21:18	Bright	33.500	126	60Bet Oph	2.7700	4250.0	67	30817	No
5	GOM_TRA_1PNPDE20080122_002724_000000382065_00202_30817_6646.N1	22-JAN-2008 00:27:24	Bright	38.000	86	35Eta Oph	2.4300	10200.	76	30817	No
6	GOM_TRA_1PNPDE20080122_003116_000000482065_00202_30817_6770.N1	22-JAN-2008 00:31:16	Twilight	47.500	16	21Alp Sco	1.0200	3000.0	95	30817	No
7	GOM_TRA_1PNPDE20080122_003248_000000422065_00202_30817_6771.N1	22-JAN-2008 00:32:48	Twilight	42.000	75	26Eps Sco	2.2910	4250.0	84	30817	No
8	GOM_TRA_1PNPDE20080122_003620_000000372065_00202_30817_6772.N1	22-JAN-2008 00:36:20	Dark	36.500	147	Alp Ara	2.8770	26000.	73	30817	No

9	GOM_TRA_1PNPDE20080122_003755_000000382065_00202_30817_6773.N1	22-JAN-2008 00:37:55	Dark	37.500	141	Bet Ara	2.8400	4600.0	75	30817	No
10	GOM_TRA_1PNPDE20080122_004109_000000382065_00203_30818_6774.N1	22-JAN-2008 00:41:09	Dark	37.500	134	Bet TrA	2.8100	6600.0	75	30818	No
11	GOM_TRA_1PNPDE20080122_004328_000000442065_00203_30818_6775.N1	22-JAN-2008 00:43:28	Dark	44.000	10	Bet Cen	0.61000	28000.	88	30818	No
12	GOM_TRA_1PNPDE20080122_004656_000000442065_00203_30818_6776.N1	22-JAN-2008 00:46:56	Dark	44.000	12	Alp1Cru	0.77500	30000.	88	30818	No
13	GOM_TRA_1PNPDE20080122_005111_000000372065_00203_30818_6777.N1	22-JAN-2008 00:51:11	Dark	37.000	29	Bet Car	1.6720	10200.	74	30818	No
14	GOM_TRA_1PNPDE20080122_005317_000000382065_00203_30818_6778.N1	22-JAN-2008 00:53:17	Dark	38.000	71	lot Car	2.2460	7700.0	76	30818	No
15	GOM_TRA_1PNPDE20080122_005507_000000432065_00203_30818_6779.N1	22-JAN-2008 00:55:07	Dark	43.000	46	Del Vel	1.9540	10600.	86	30818	No
16	GOM_TRA_1PNPDE20080122_005745_000000442065_00203_30818_6780.N1	22-JAN-2008 00:57:45	Dark	43.500	2	Alp Car	-0.73600	7000.0	87	30818	No
17	GOM_TRA_1PNPDE20080122_005953_000000392065_00203_30818_6781.N1	22-JAN-2008 00:59:53	Straylight	39.000	70	Zet Pup	2.2460	39000.	78	30818	No
18	GOM_TRA_1PNPDE20080122_010125_000000412065_00203_30818_6782.N1	22-JAN-2008 01:01:25	Straylight	41.000	117	Pi Pup	2.7060	3800.0	82	30818	No
19	GOM_TRA_1PNPDE20080122_010355_000000422065_00203_30818_6783.N1	22-JAN-2008 01:03:55	Straylight	41.500	23	21Eps CMa	1.5020	26000.	83	30818	No
20	GOM_TRA_1PNPDE20080122_010518_000000392065_00203_30818_6784.N1	22-JAN-2008 01:05:18	Straylight	38.500	179	24Omi2CMa	3.0320	24000.	77	30818	No
21	GOM_TRA_1PNPDE20080122_010729_000000442065_00203_30818_6785.N1	22-JAN-2008 01:07:29	Straylight	44.000	1	9Alp CMa	-1.4400	11000.	88	30818	No
22	GOM_TRA_1PNPDE20080122_011002_000000422065_00203_30818_6786.N1	22-JAN-2008 01:10:02	Straylight	42.000	56	53Kap Ori	2.0650	30000.	84	30818	No
23	GOM_TRA_1PNPDE20080122_011231_000000422065_00203_30818_6787.N1	22-JAN-2008 01:12:31	Twilight	42.000	30	46Eps Ori	1.6940	30000.	84	30818	No
24	GOM_TRA_1PNPDE20080122_011439_000000482065_00203_30818_6788.N1	22-JAN-2008 01:14:39	Twilight	47.500	14	58Alp Ori	0.87000	3000.0	95	30818	No
25	GOM_TRA_1PNPDE20080122_011654_000000462065_00203_30818_6789.N1	22-JAN-2008 01:16:54	Bright	45.500	44	24Gam Gem	1.9280	11000.	91	30818	No
26	GOM_TRA_1PNPDE20080122_011840_000000402065_00203_30818_6790.N1	22-JAN-2008 01:18:40	Bright	40.000	151	13Mu Gem	2.8900	3000.0	80	30818	No
27	GOM_TRA_1PNPDE20080122_012049_000000372065_00203_30818_6791.N1	22-JAN-2008 01:20:49	Bright	37.000	28	12Bet Tau	1.6500	15200.	74	30818	No
28	GOM_TRA_1PNPDE20080122_012252_000000342065_00203_30818_6792.N1	22-JAN-2008 01:22:52	Bright	34.000	107	37The Aur	2.6490	11000.	68	30818	No
29	GOM_TRA_1PNPDE20080122_012501_000000362065_00203_30818_6793.N1	22-JAN-2008 01:25:01	Bright	36.000	42	34Bet Aur	1.9000	10200.	72	30818	No
30	GOM_TRA_1PNPDE20080122_013734_000000332065_00203_30818_6794.N1	22-JAN-2008 01:37:34	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	30818	No
31	GOM_TRA_1PNPDE20080122_014831_000000352065_00203_30818_6795.N1	22-JAN-2008 01:48:31	Bright	35.000	130	23Bet Dra	2.7990	5800.0	70	30818	No
32	GOM_TRA_1PNPDE20080122_015149_000000362065_00203_30818_6796.N1	22-JAN-2008 01:51:49	Bright	36.000	5	3Alp Lyr	0.033000	11000.	72	30818	No
33	GOM_TRA_1PNPDE20080122_015947_000000342065_00203_30818_6797.N1	22-JAN-2008 01:59:47	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	30818	No
34	GOM_TRA_1PNPDE20080122_020154_000000332065_00203_30818_6798.N1	22-JAN-2008 02:01:54	Bright	33.000	126	60Bet Oph	2.7700	4250.0	66	30818	No
35	GOM_TRA_1PNPDE20080122_020801_000000372065_00203_30818_6925.N1	22-JAN-2008 02:08:01	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	30818	No
36	GOM_TRA_1PNPDE20080122_021152_000000462065_00203_30818_6926.N1	22-JAN-2008 02:11:52	Twilight	46.000	16	21Alp Sco	1.0200	3000.0	92	30818	No
37	GOM_TRA_1PNPDE20080122_021324_000000422065_00203_30818_6927.N1	22-JAN-2008 02:13:24	Twilight	41.500	75	26Eps Sco	2.2910	4250.0	83	30818	No
38	GOM_TRA_1PNPDE20080122_021656_000000372065_00203_30818_6928.N1	22-JAN-2008 02:16:56	Dark	36.500	147	Alp Ara	2.8770	26000.	73	30818	No
39	GOM_TRA_1PNPDE20080122_021831_000000422065_00203_30818_6929.N1	22-JAN-2008 02:18:31	Dark	42.000	141	Bet Ara	2.8400	4600.0	84	30818	No
40	GOM_TRA_1PNPDE20080122_022145_000000372065_00204_30819_6930.N1	22-JAN-2008 02:21:45	Dark	36.500	134	Bet TrA	2.8100	6600.0	73	30819	No
41	GOM_TRA_1PNPDE20080122_022405_000000422065_00204_30819_6931.N1	22-JAN-2008 02:24:05	Dark	41.500	10	Bet Cen	0.61000	28000.	83	30819	No
42	GOM_TRA_1PNPDE20080122_022732_000000432065_00204_30819_6932.N1	22-JAN-2008 02:27:32	Dark	42.500	12	Alp1Cru	0.77500	30000.	85	30819	No
43	GOM_TRA_1PNPDE20080122_023147_000000382065_00204_30819_6933.N1	22-JAN-2008 02:31:47	Dark	38.000	29	Bet Car	1.6720	10200.	76	30819	No
44	GOM_TRA_1PNPDE20080122_023353_000000392065_00204_30819_6934.N1	22-JAN-2008 02:33:53	Dark	39.000	71	lot Car	2.2460	7700.0	78	30819	No
45	GOM_TRA_1PNPDE20080122_023543_000000392065_00204_30819_6935.N1	22-JAN-2008 02:35:43	Dark	38.500	46	Del Vel	1.9540	10600.	77	30819	No
46	GOM_TRA_1PNPDE20080122_023821_000000452065_00204_30819_6936.N1	22-JAN-2008 02:38:21	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	30819	No
47	GOM_TRA_1PNPDE20080122_024029_000000382065_00204_30819_6937.N1	22-JAN-2008 02:40:29	Straylight	37.500	70	Zet Pup	2.2460	39000.	75	30819	No
48	GOM_TRA_1PNPDE20080122_024201_000000442065_00204_30819_6938.N1	22-JAN-2008 02:42:01	Straylight	44.000	117	Pi Pup	2.7060	3800.0	88	30819	No
49	GOM_TRA_1PNPDE20080122_024431_000000442065_00204_30819_6939.N1	22-JAN-2008 02:44:31	Straylight	44.000	23	21Eps CMa	1.5020	26000.	88	30819	No
50	GOM_TRA_1PNPDE20080122_024555_000000382065_00204_30819_6940.N1	22-JAN-2008 02:45:55	Straylight	37.500	179	24Omi2CMa	3.0320	24000.	75	30819	No

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



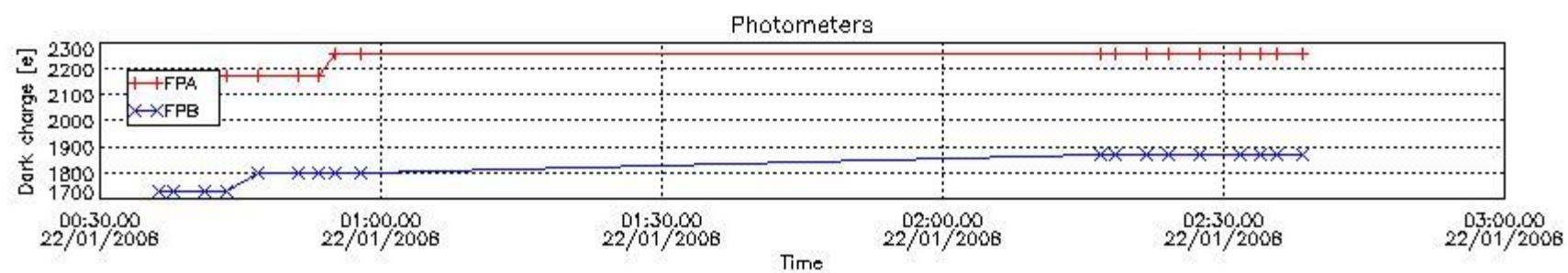
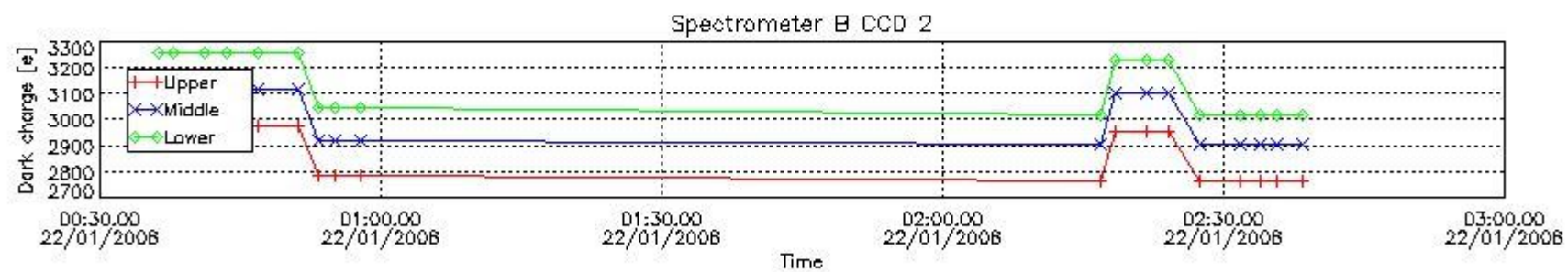
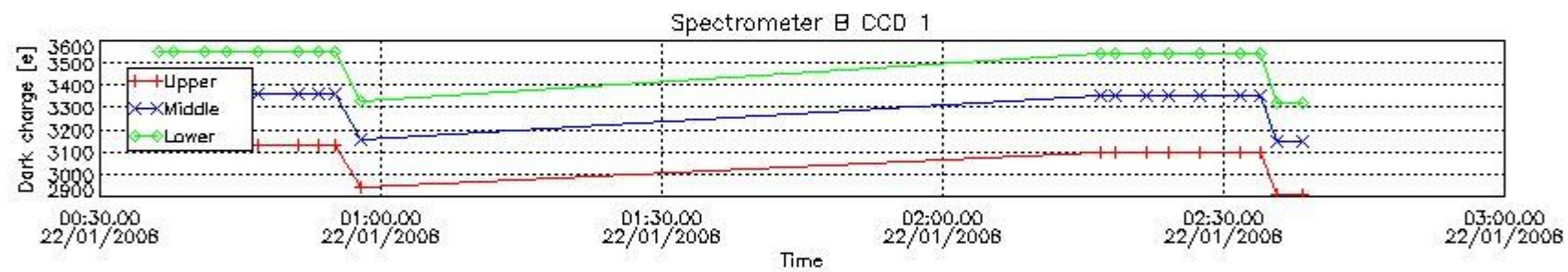
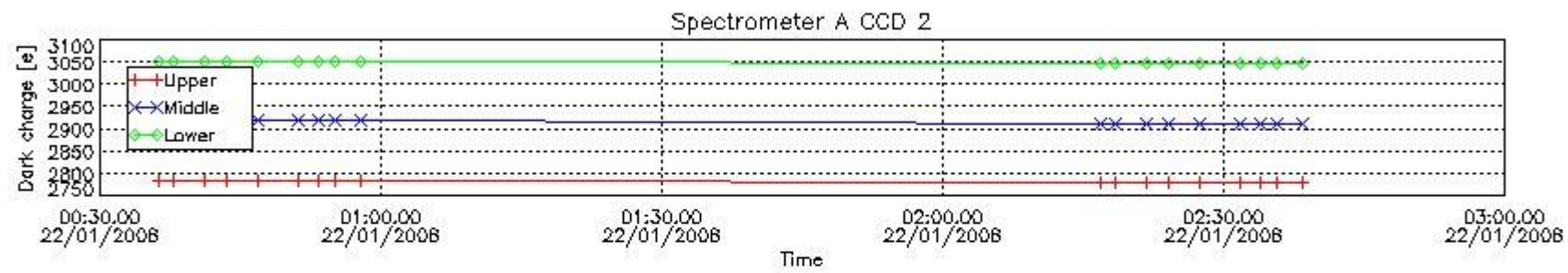
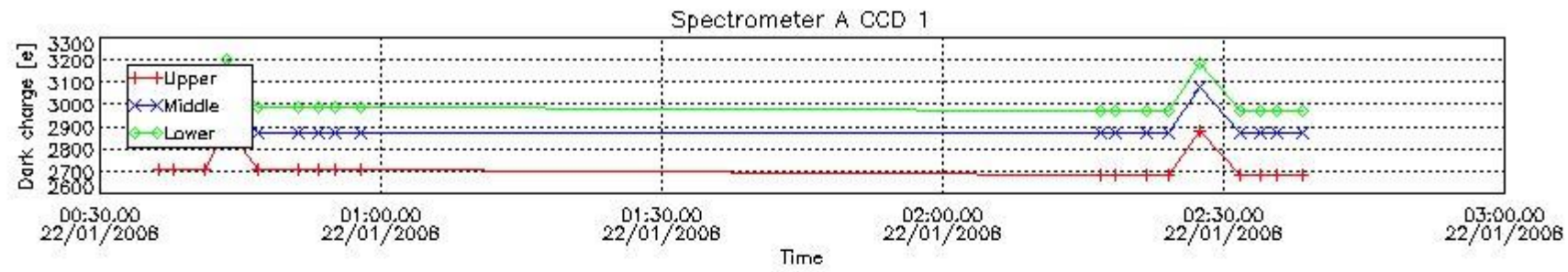
4. Overview of dark signal processing per product

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



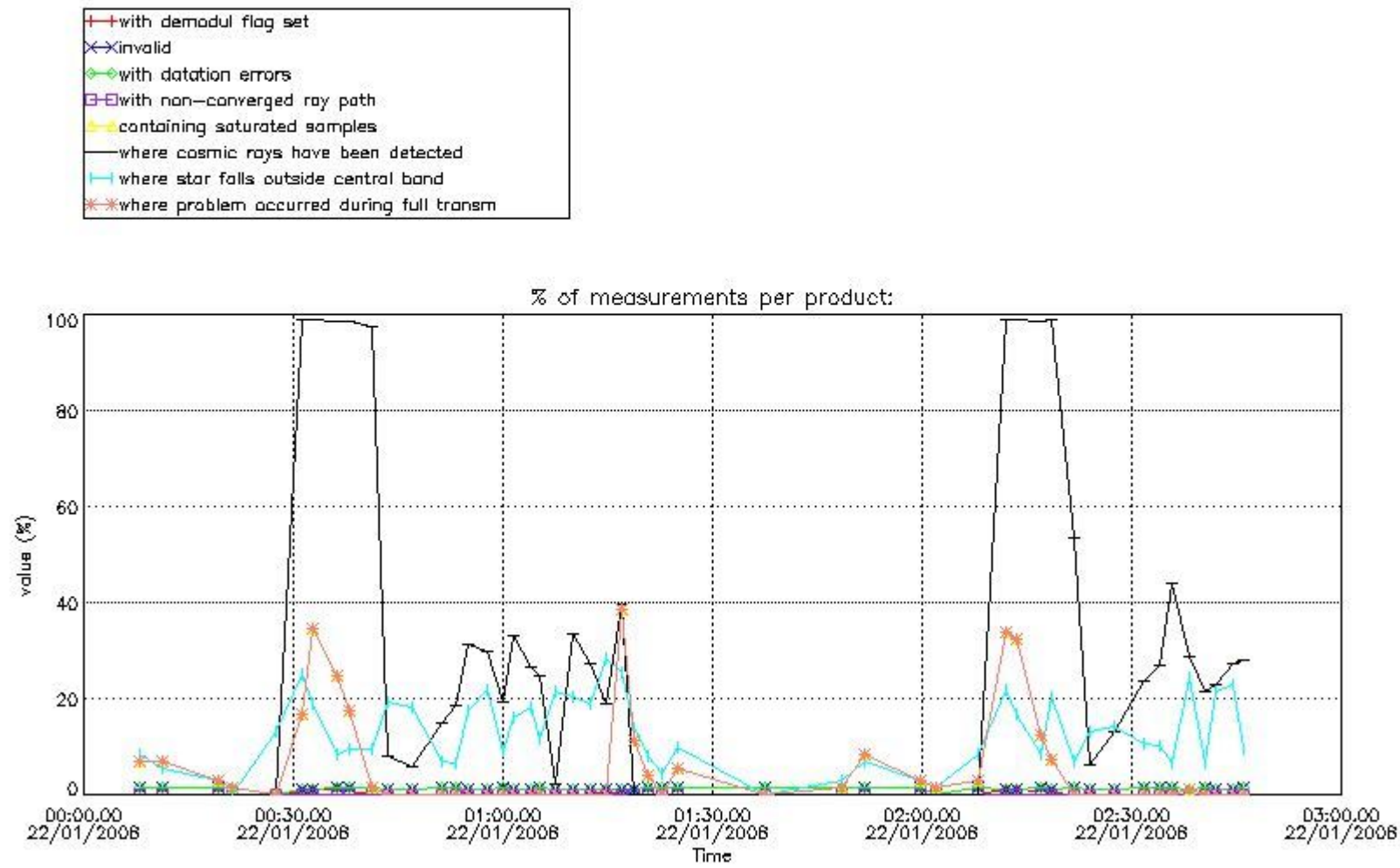
5. Demodulation flag and quality information monitoring

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.

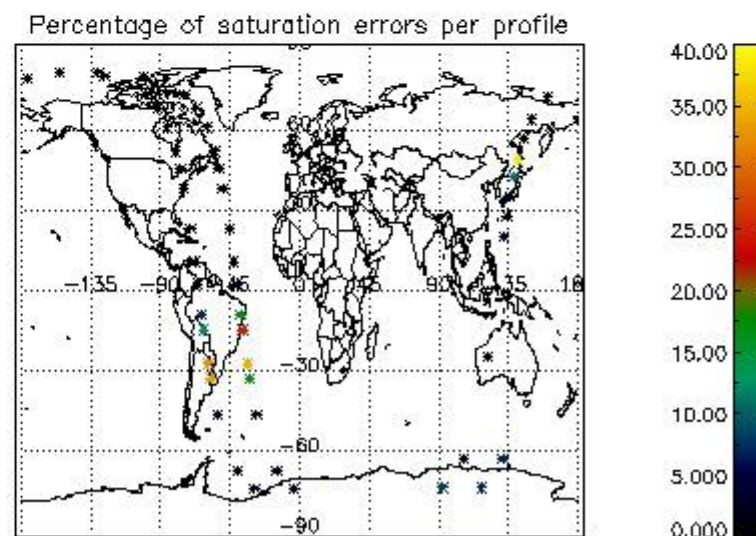
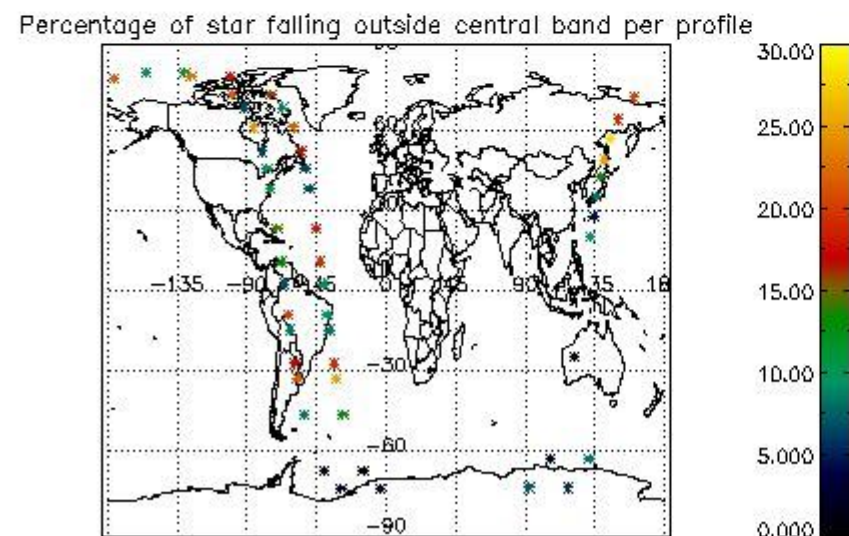
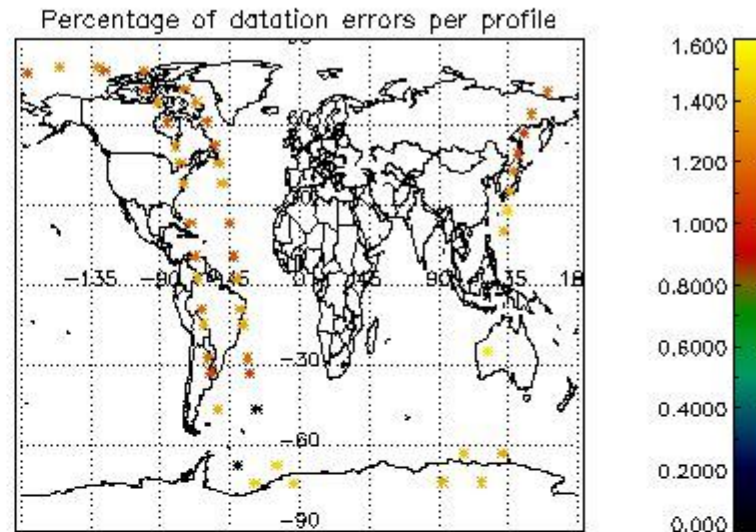
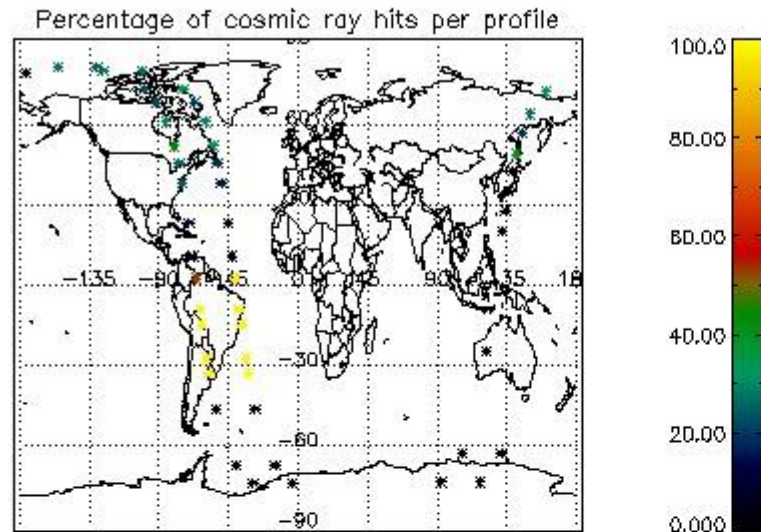
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	36.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



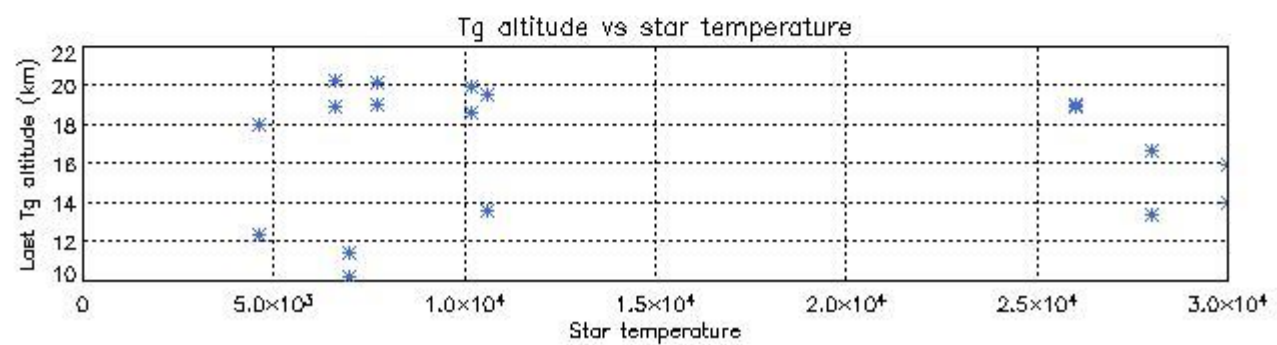
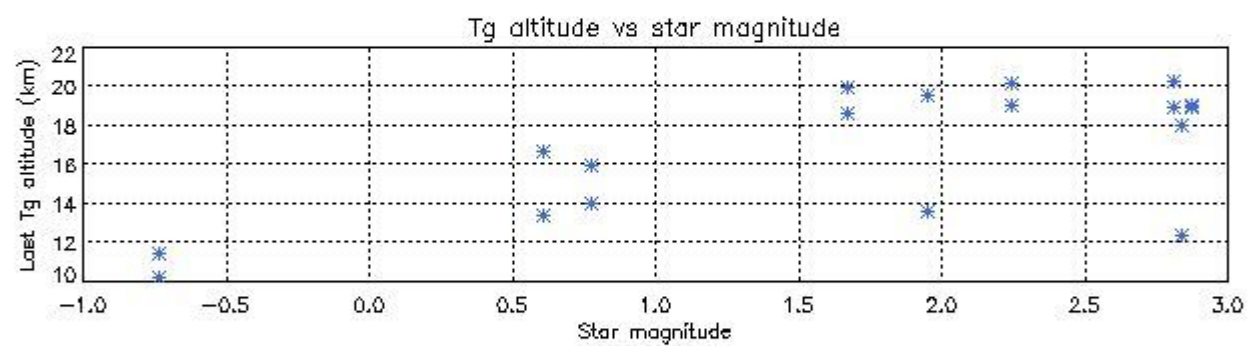
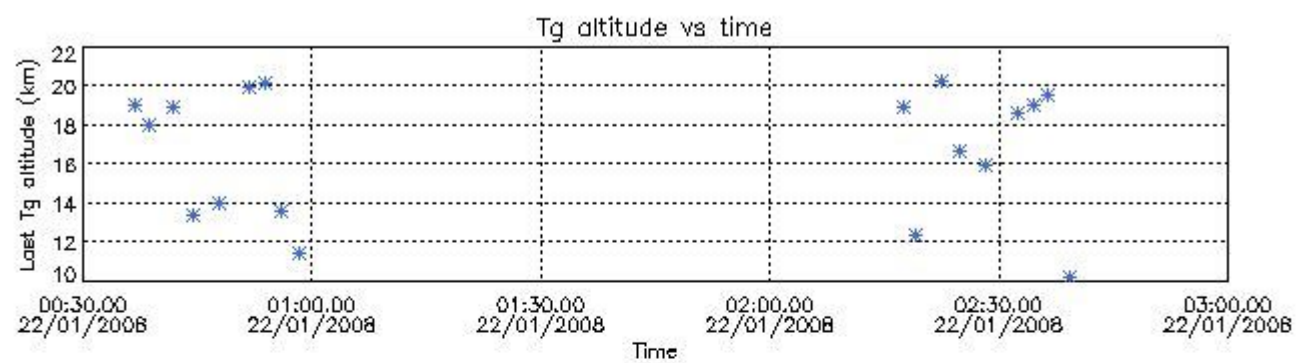
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.672	20.758	11.672
St. deviation:	3.3154	4.8242	1.7617
Maximum:	20.268	28.702	13.486
Minimum:	10.221	9.3235	9.6131
Number of data:	18.000	16.000	4.0000

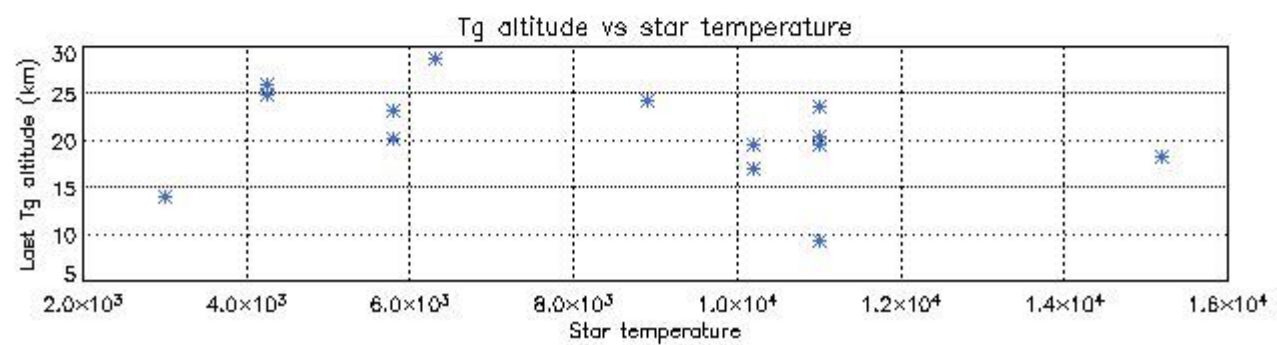
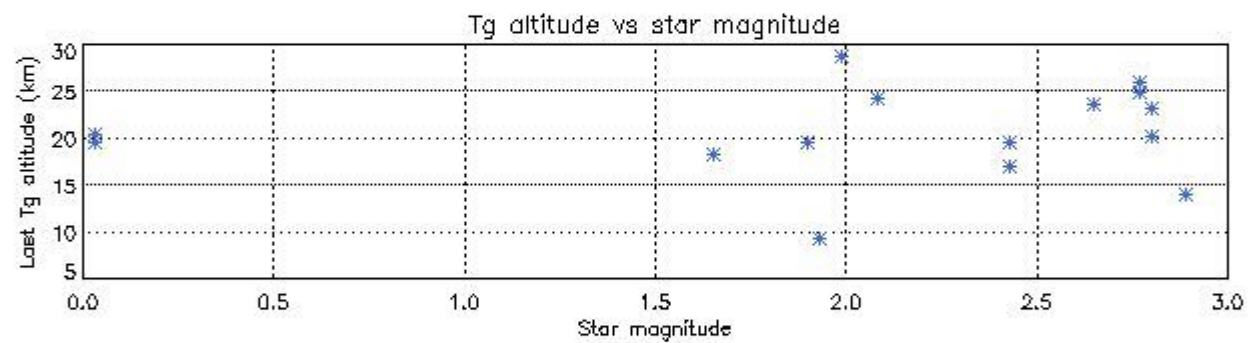
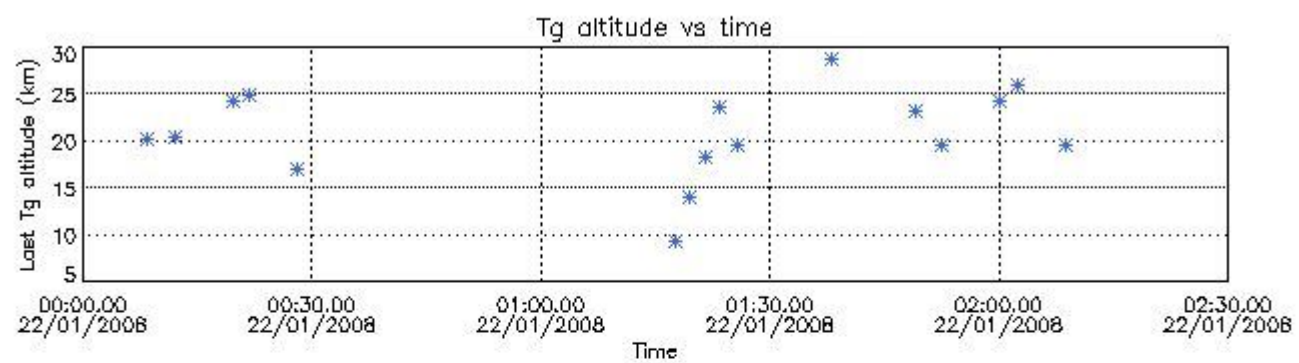
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



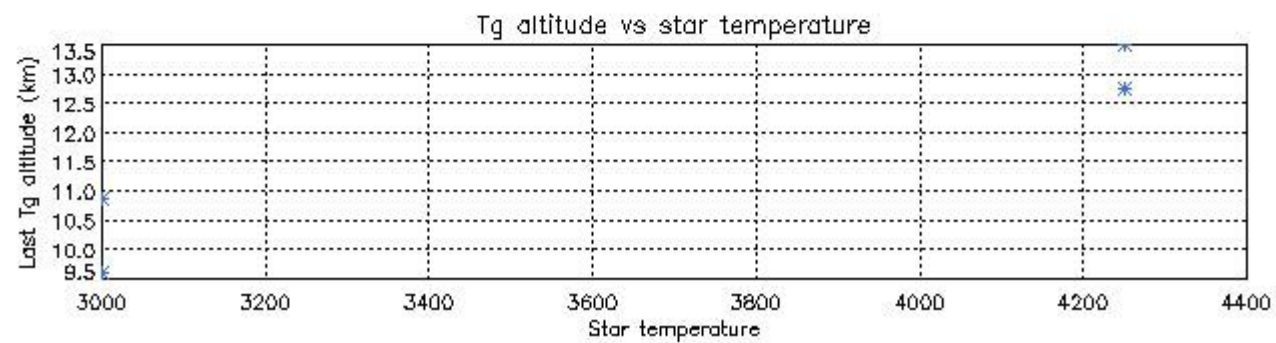
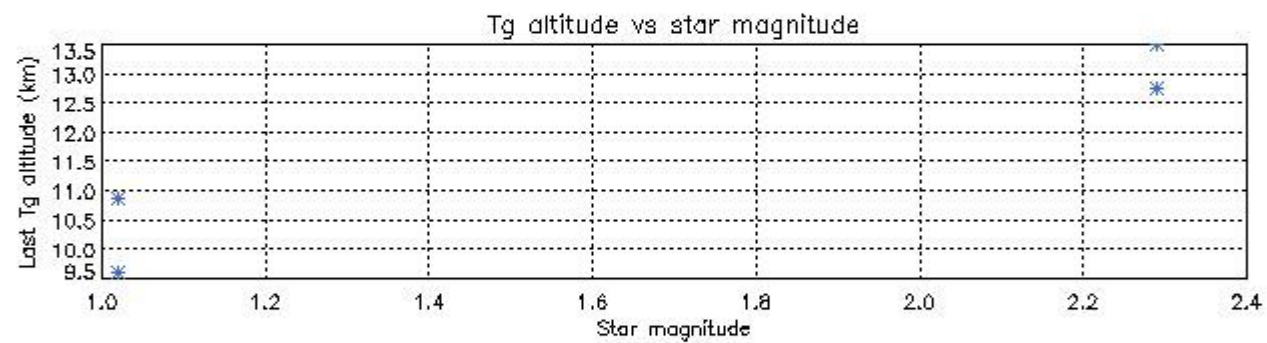
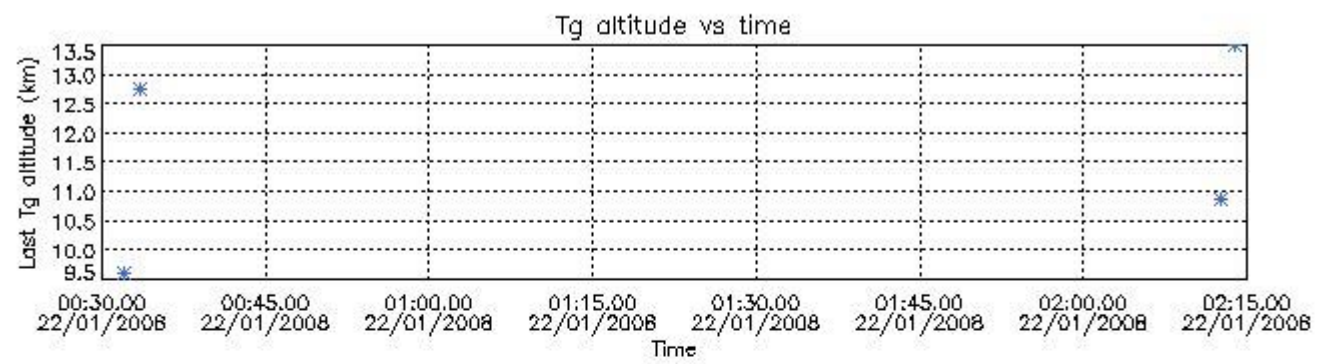
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

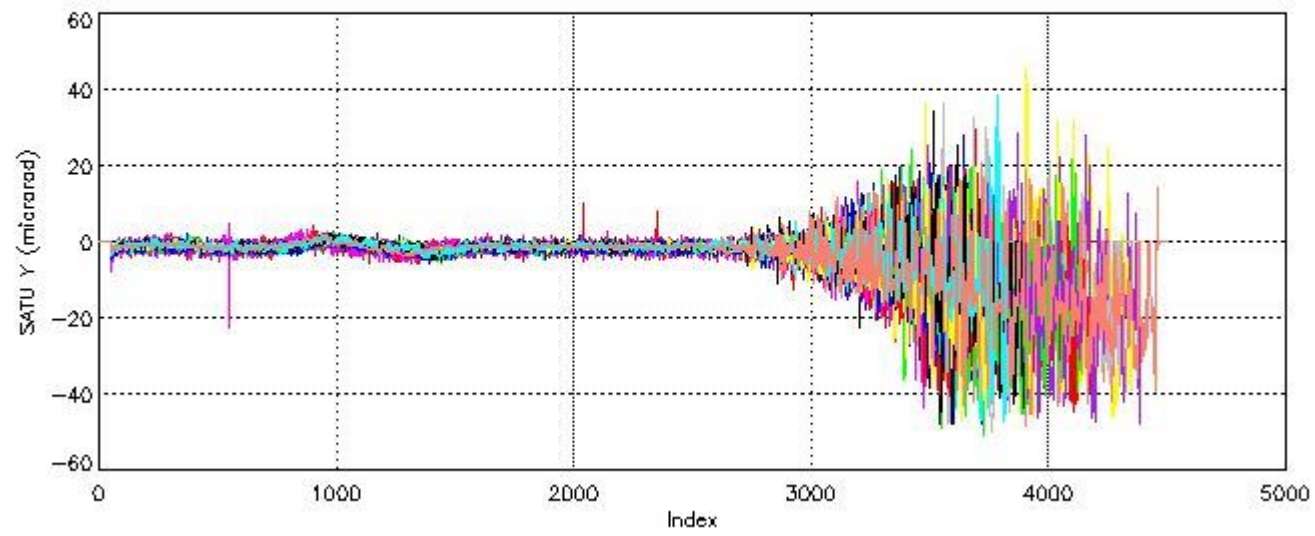
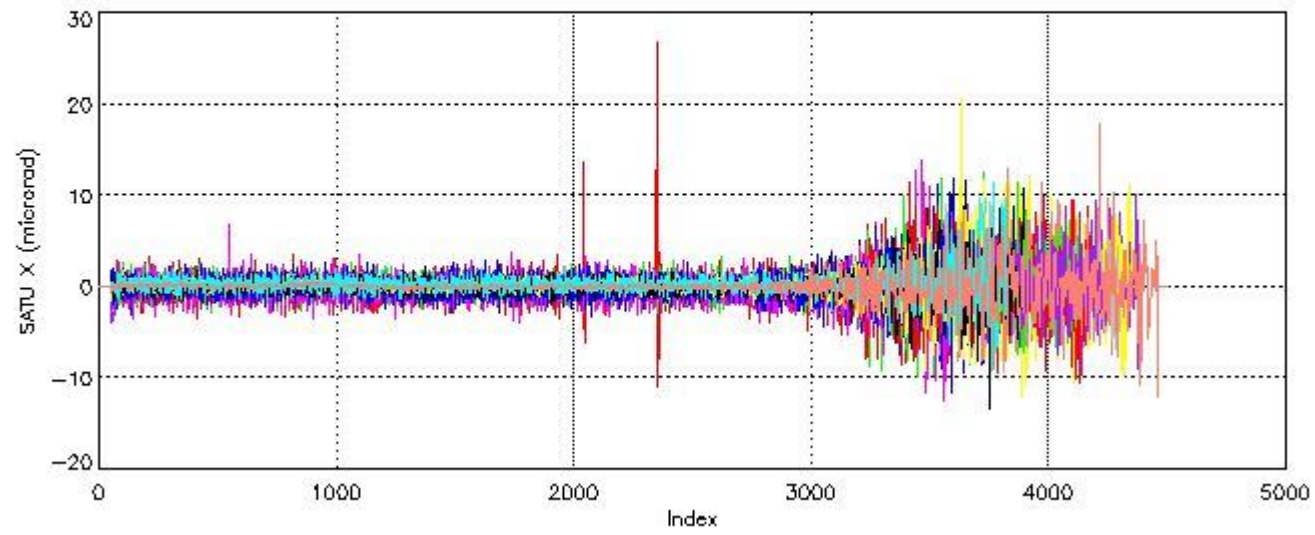


7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

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

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.026714	-1.3101	-0.042503	-1.1629
St. deviation:	0.52177	0.77800	0.65006	1.0806
Maximum:	6.8000	4.5000	4.5000	3.0000
Minimum:	-3.9000	-22.800	-5.2000	-6.9000

Number of data:	15900.	15900.	13150.	13150.
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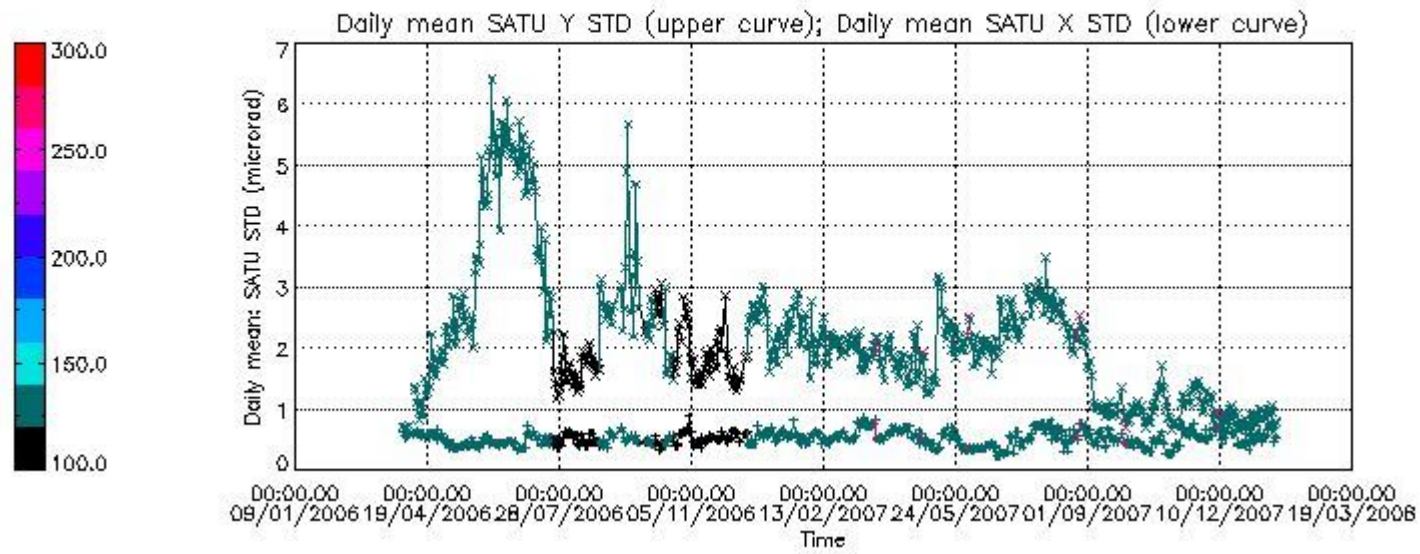
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

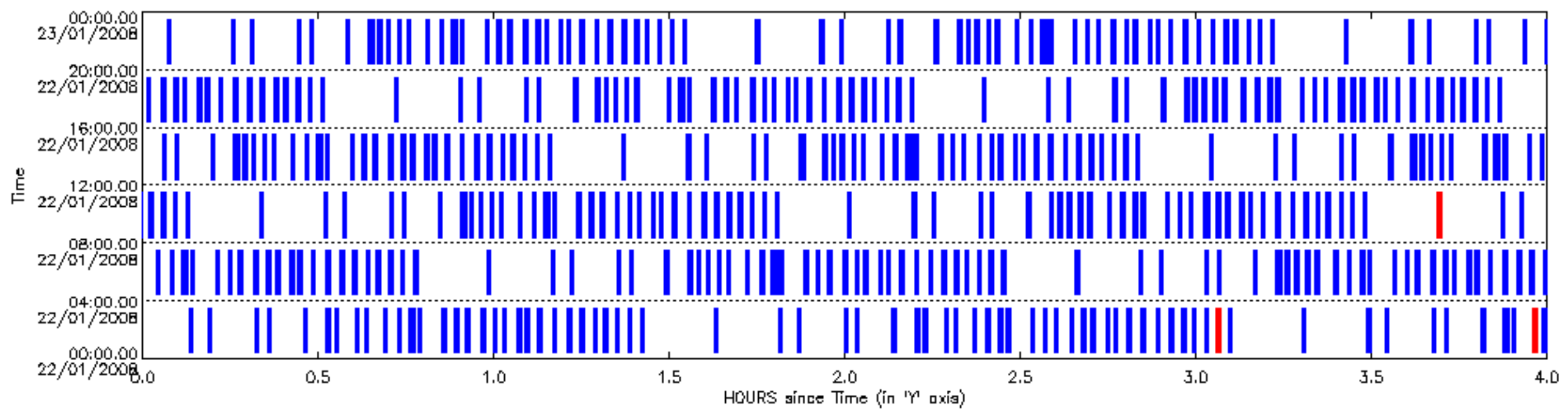
Lower curve: STD of SATU X axis

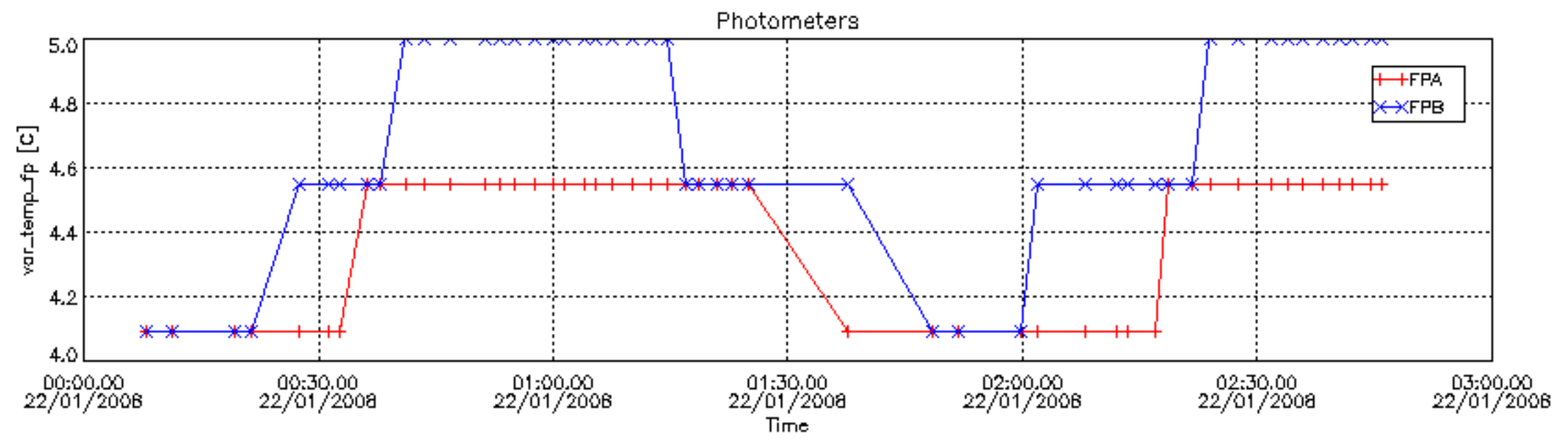
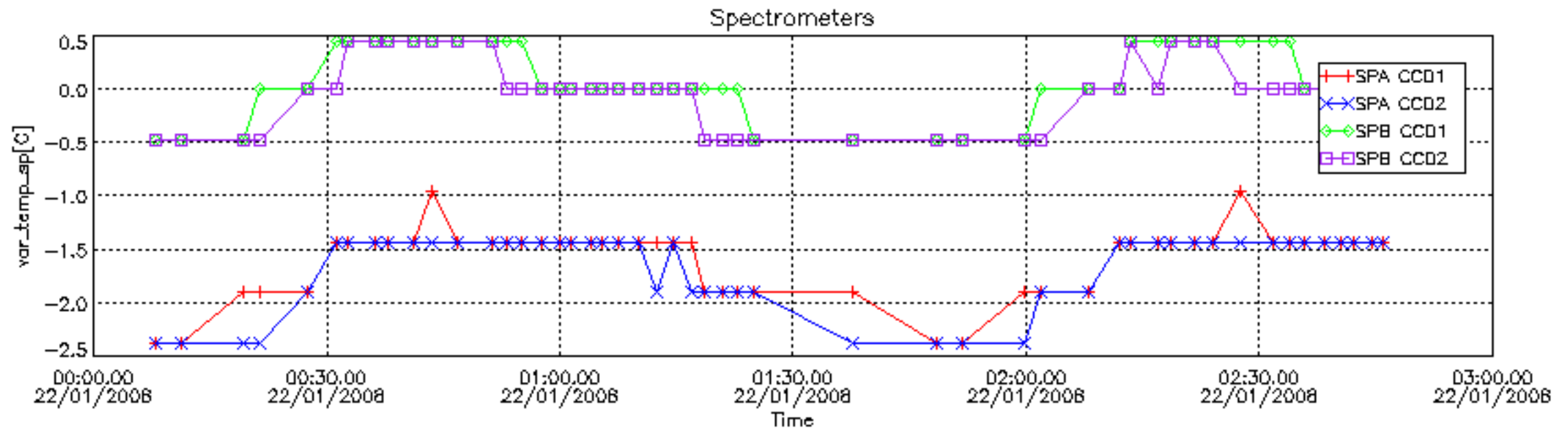


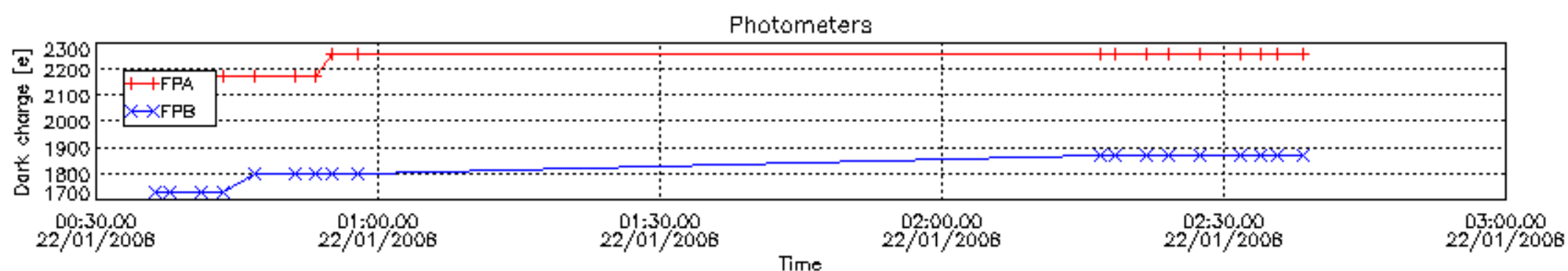
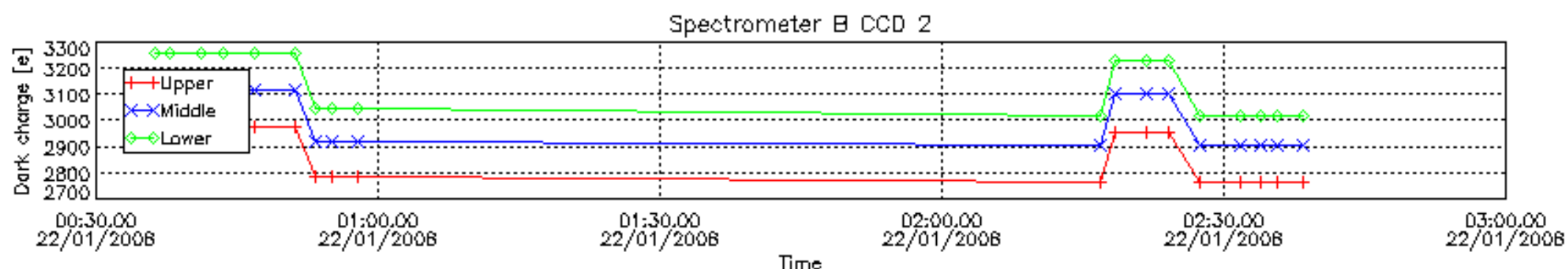
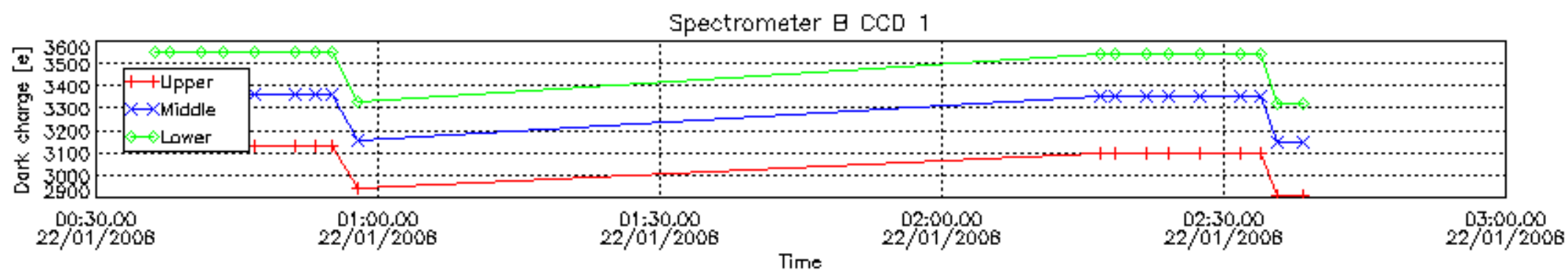
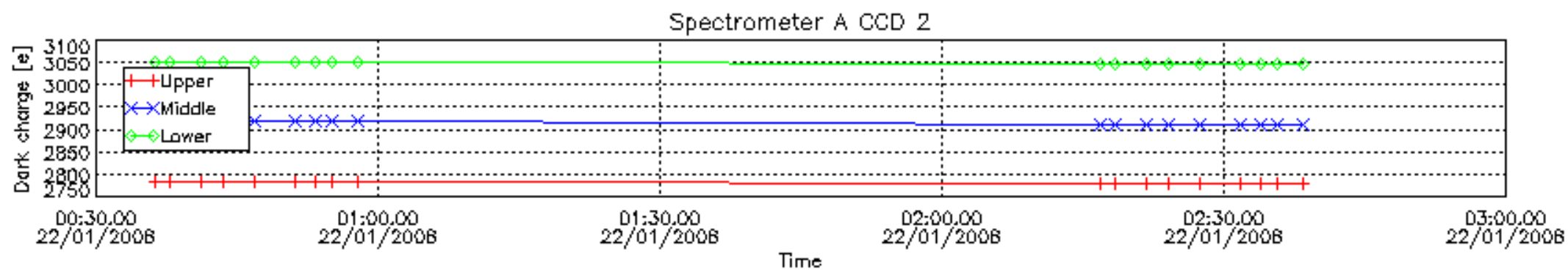
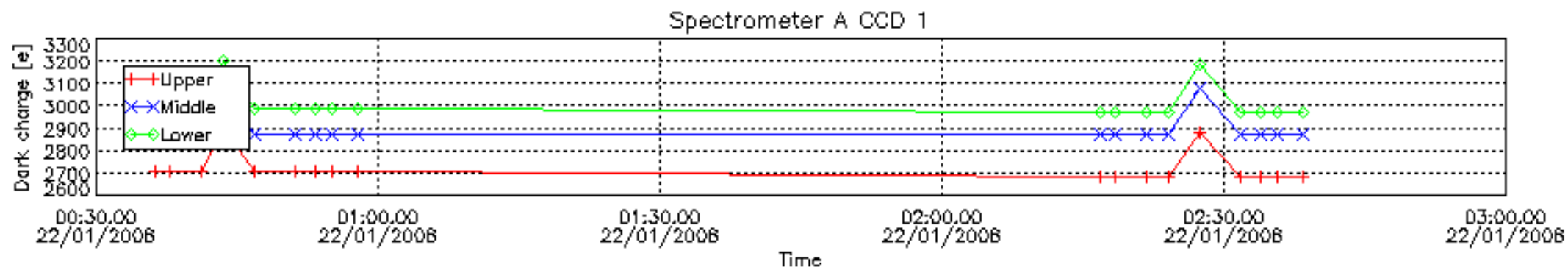
8. Auxiliary Data Files used for the production reported in section 2.4

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.

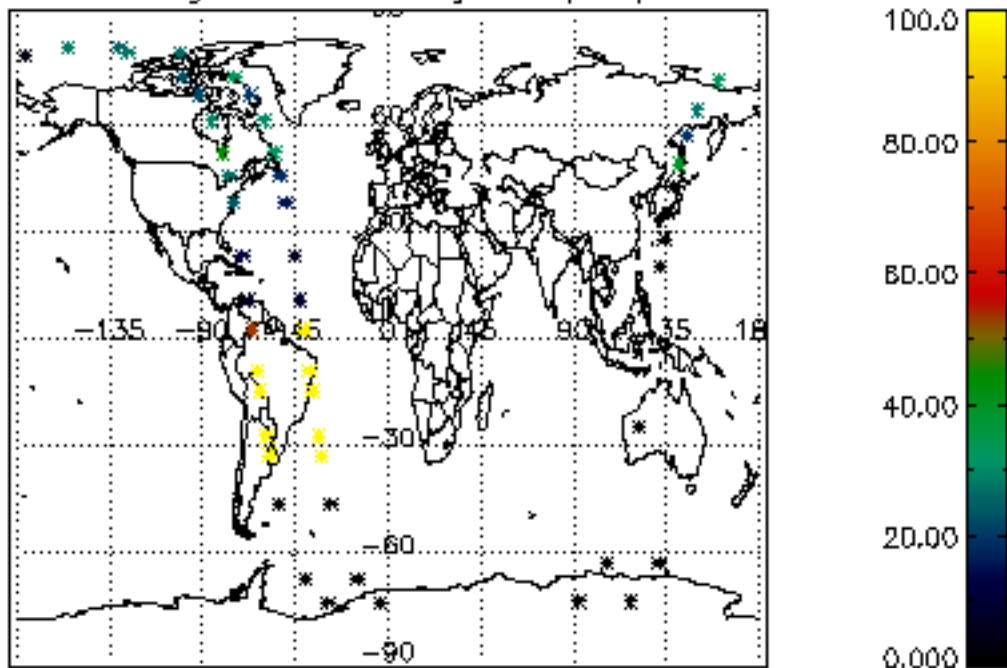
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	22-JAN-2008 00:07:55
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080118_162059_20080116_000000_20100101_000000	1	22-JAN-2008 00:07:55
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	22-JAN-2008 00:07:55
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	22-JAN-2008 00:07:55
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	22-JAN-2008 00:07:55
ECMWF_FILE	AUX_ECF_AXNECM20080121_073113_20080121_210000_20080122_090000	1	22-JAN-2008 00:07:55
OPTIONAL_ECMWF_FILE	MISSING	1	22-JAN-2008 00:07:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080121_205932_000060572065_00200_30815_4991.N1	1	22-JAN-2008 00:07:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080121_224547_000057382065_00201_30816_4992.N1	6	22-JAN-2008 00:31:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080122_002644_000054192065_00202_30817_4993.N1	35	22-JAN-2008 02:08:01



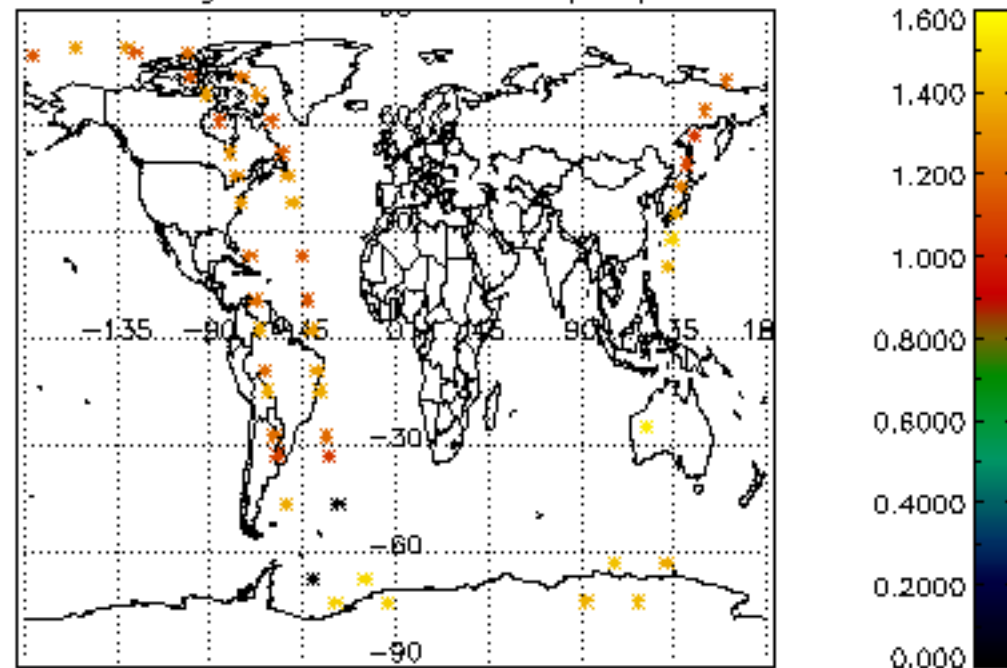




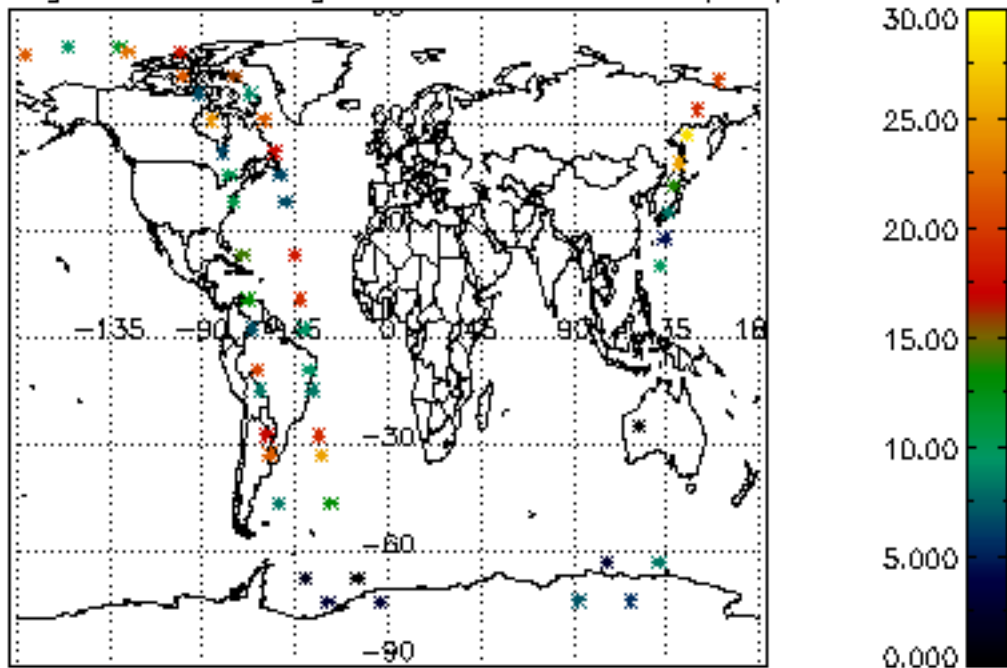
Percentage of cosmic ray hits per profile



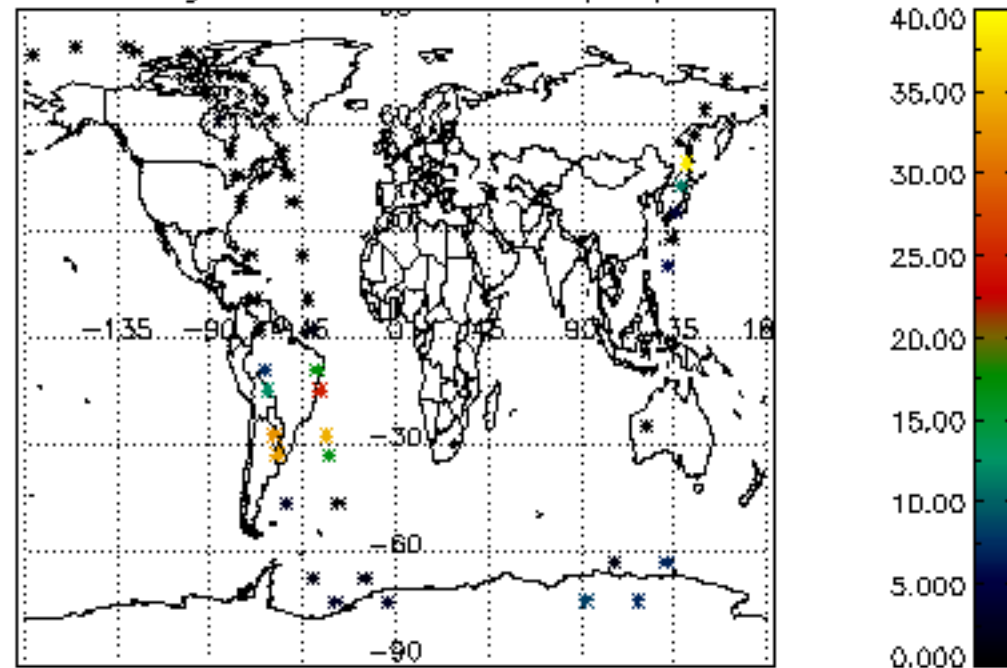
Percentage of datation errors per profile



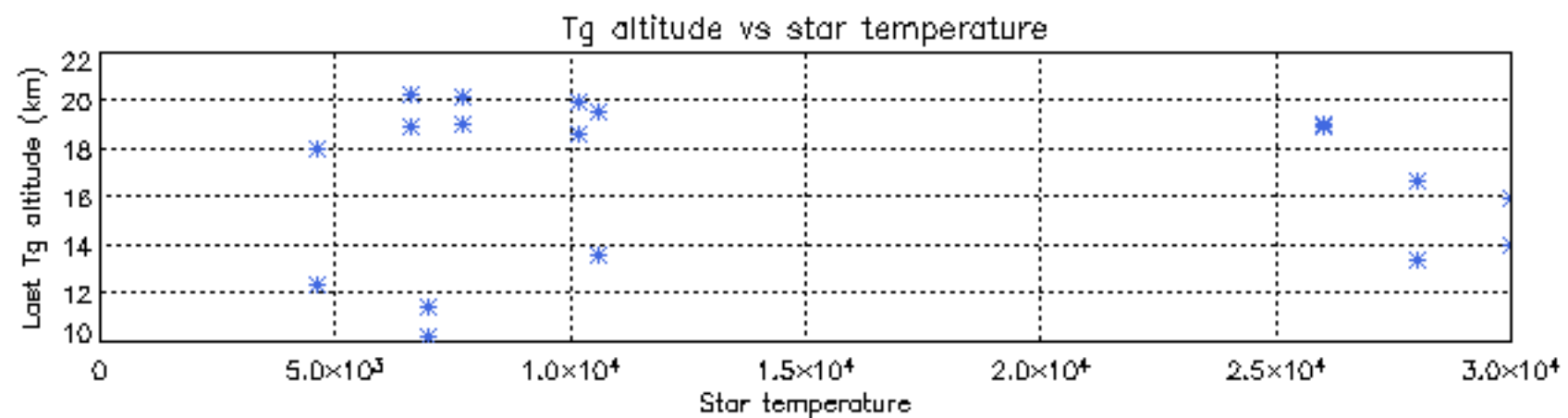
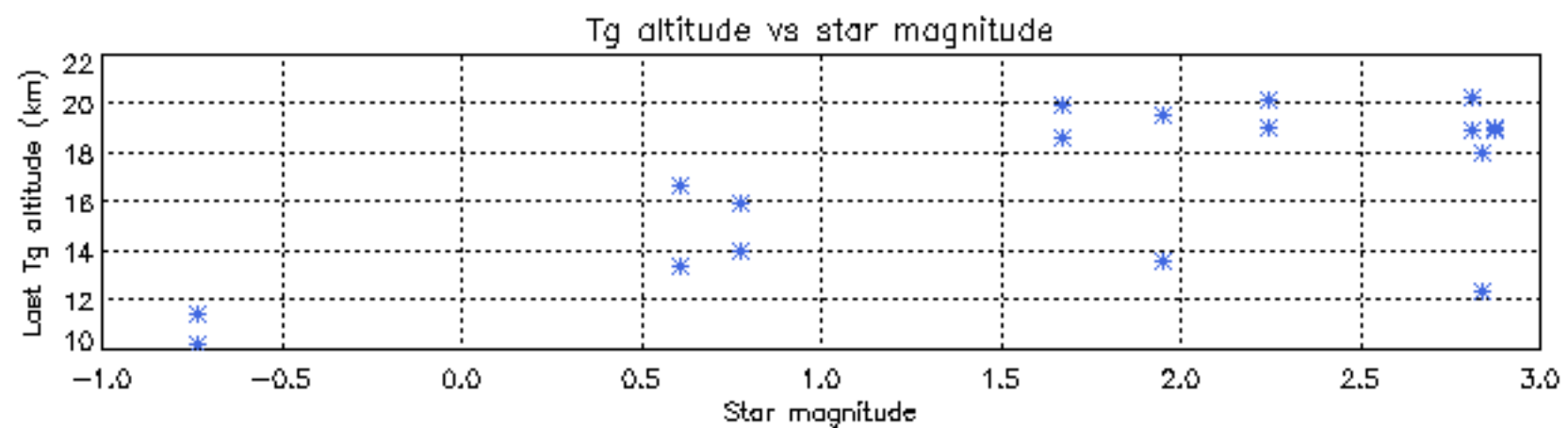
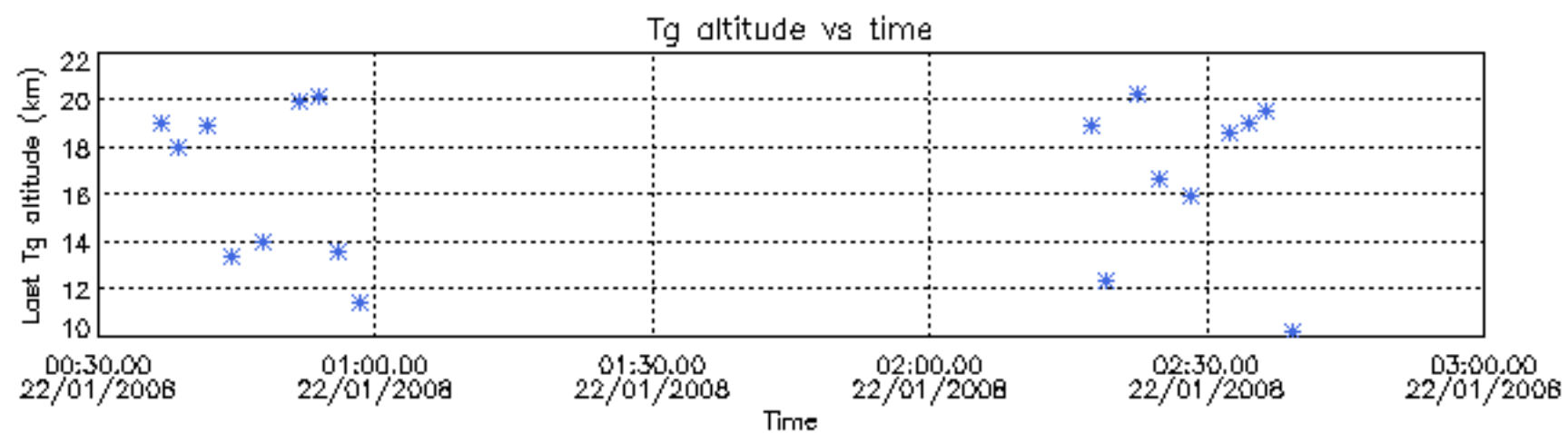
Percentage of star falling outside central band per profile



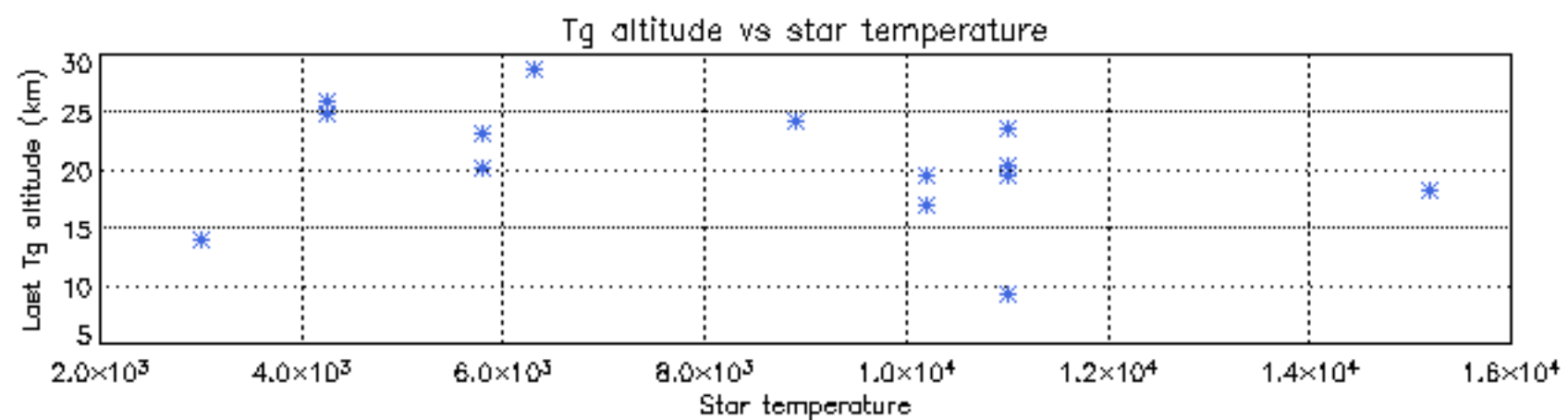
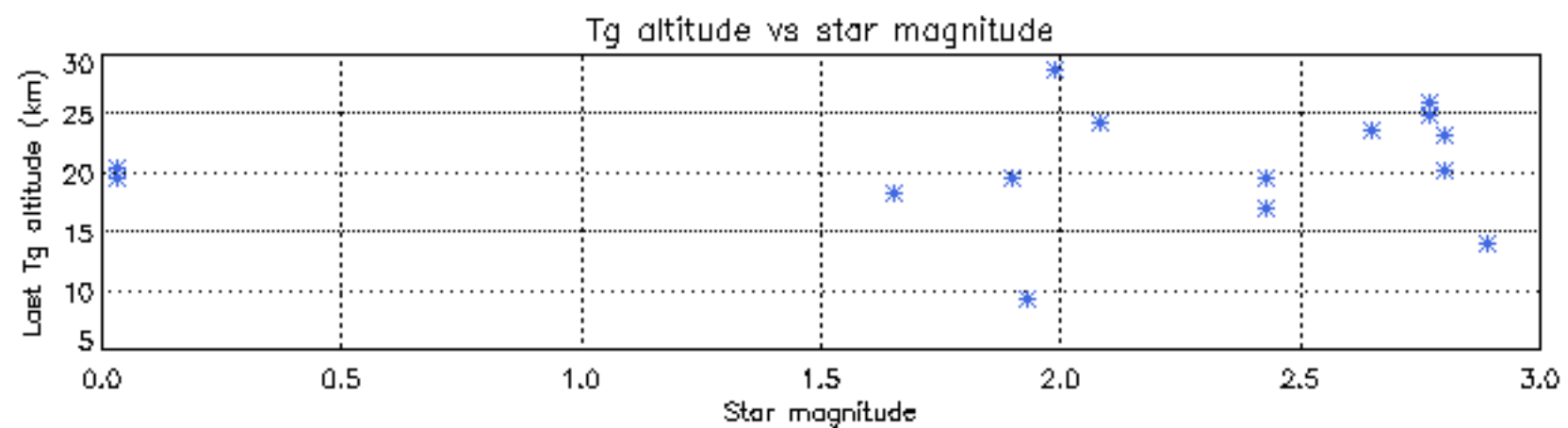
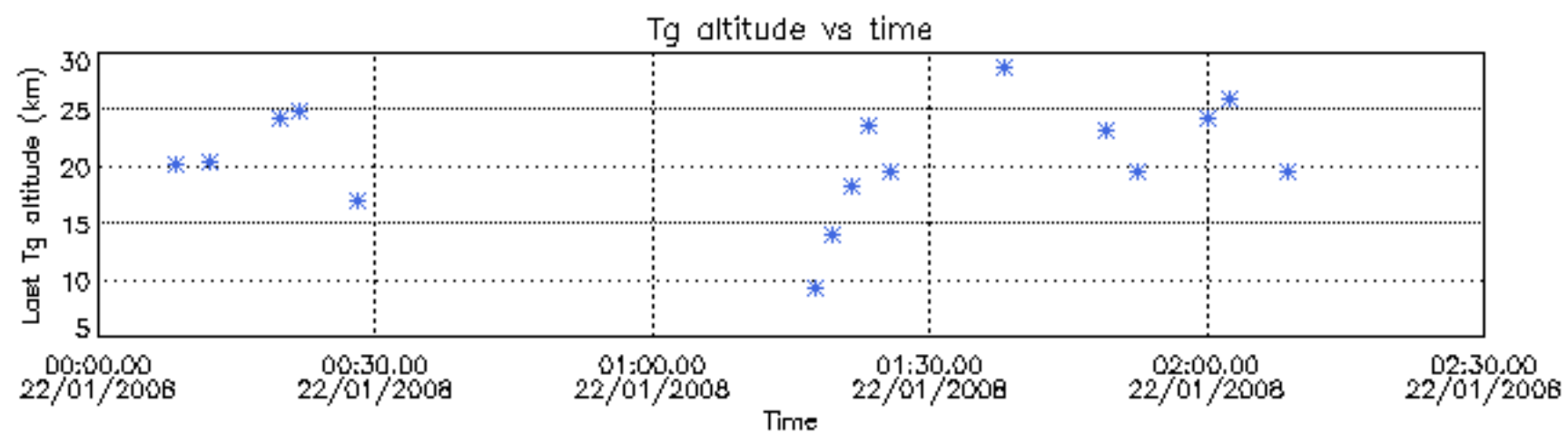
Percentage of saturation errors per profile



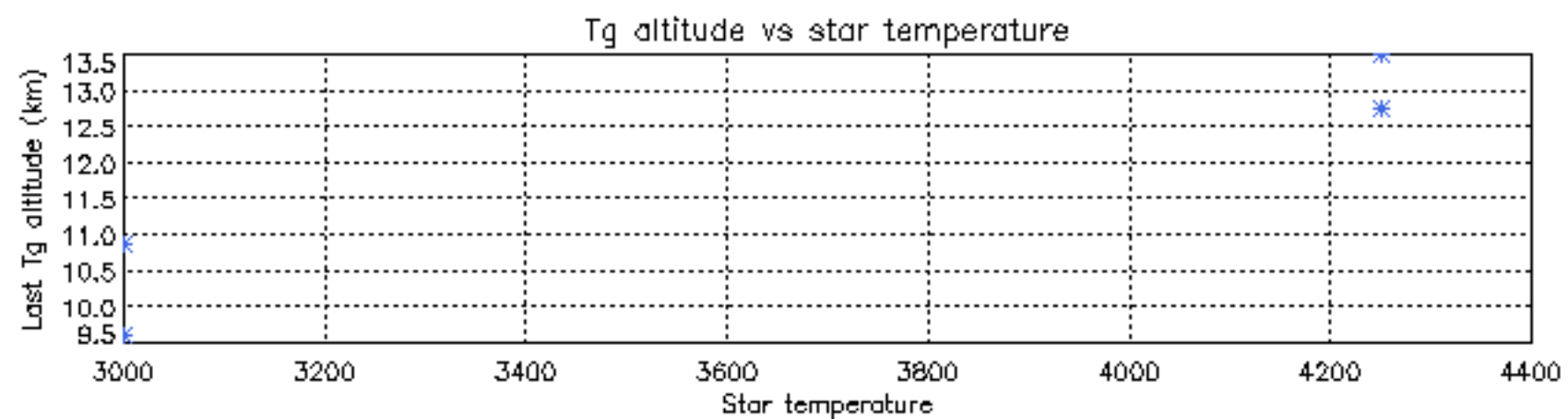
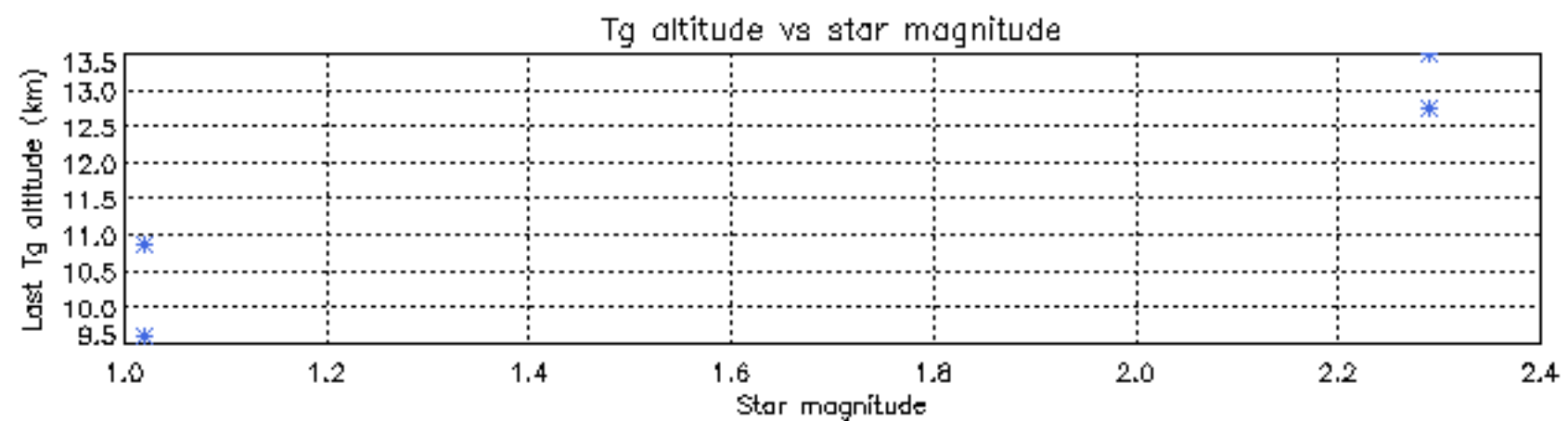
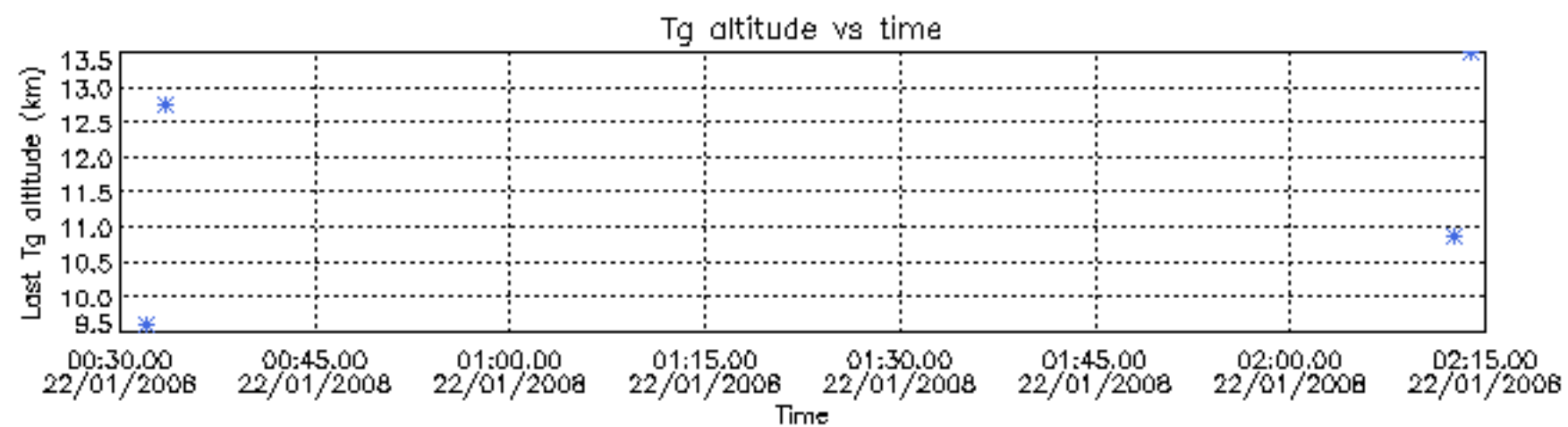
Tangent altitude at which the star is lost

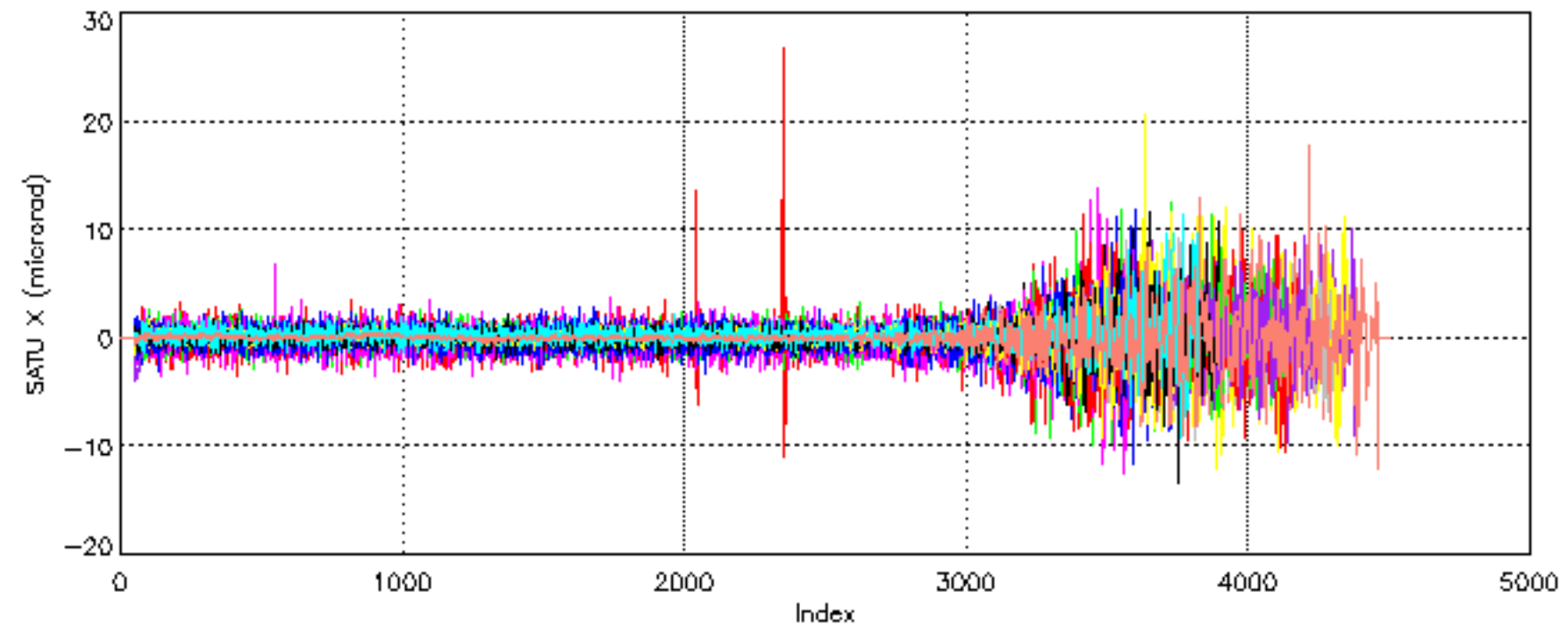


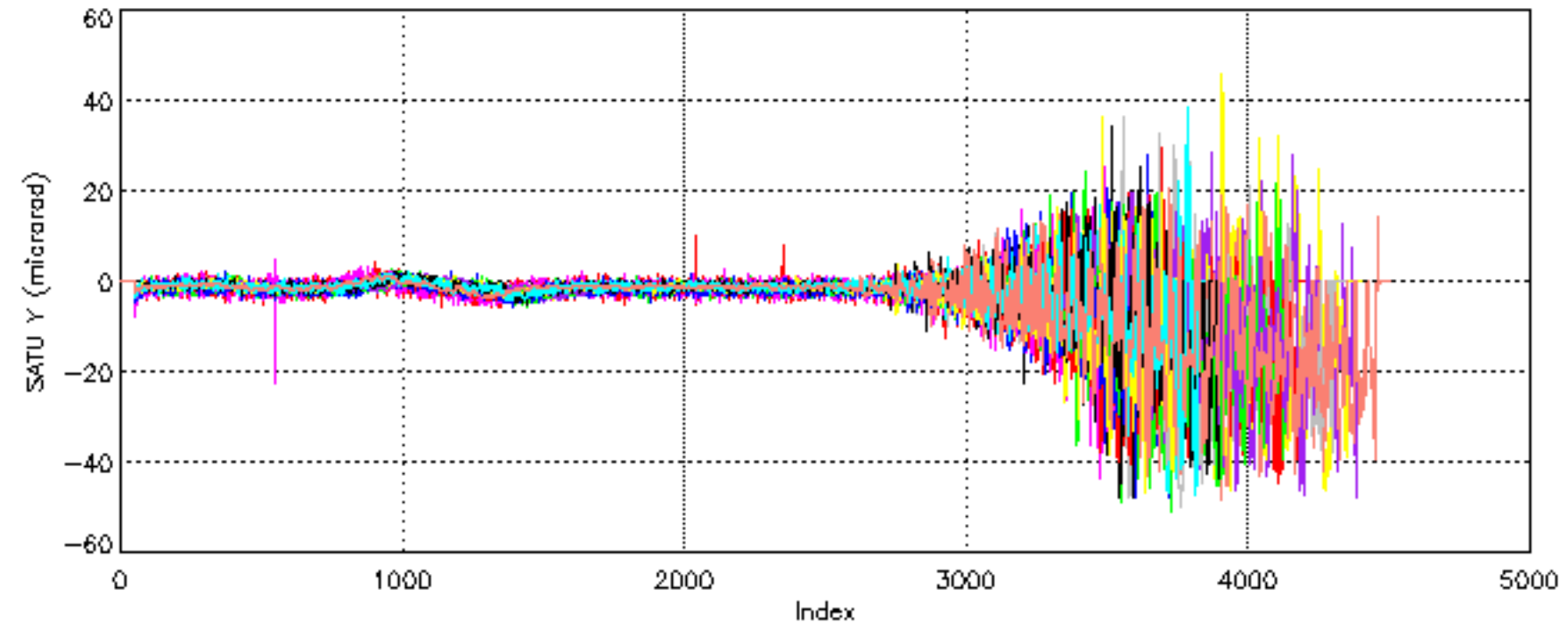
Tangent altitude at which the star is lost

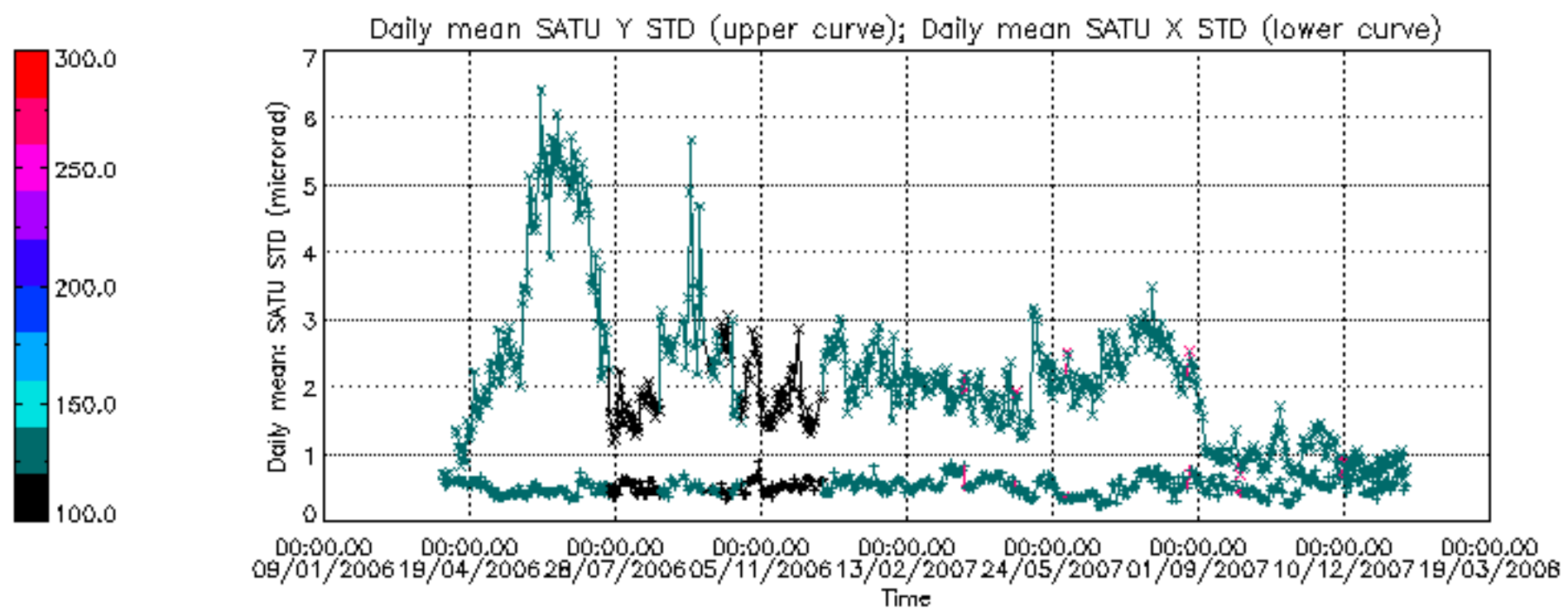


Tangent altitude at which the star is lost









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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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 11; 1568.7; 01-JAN-2008 02:06:58; Dark ; 45.0; 47; 2Bet CMA ; 1.98; 28000;occ; 90; 0;30518
 12; 1769.0; 01-JAN-2008 02:10:18; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;30518
 13; 1881.1; 01-JAN-2008 02:12:10; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;30518
 14; 2033.3; 01-JAN-2008 02:14:42; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;30518
 15; 2200.2; 01-JAN-2008 02:17:29; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;30518
 16; 2398.1; 01-JAN-2008 02:20:47; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30518
 17; 2472.5; 01-JAN-2008 02:22:02; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30518
 18; 2611.4; 01-JAN-2008 02:24:20; Bright; 35.5; 149; 45Eps Per ; 2.89; 30000;occ; 71; 0;30518
 19; 2693.4; 01-JAN-2008 02:25:42; Bright; 42.5; 6; 13Alp Aur ; 0.08; 3400;occ; 85; 0;30518
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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
 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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 9; -685.7; 01-JAN-2008 03:09:59; Dark ; 42.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 84; 0;30518
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 23; 1881.4; 01-JAN-2008 03:52:46; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;30519
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 29; 2693.3; 01-JAN-2008 04:06:18; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;30519
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 11; -282.1; 01-JAN-2008 04:57:19; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;30519
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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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16; 398.5; 01-JAN-2008 05:08:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30520
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19; 724.0; 01-JAN-2008 05:14:05; Dark ; 45.5; 41; Eps Car ; 1.86; 4100;occ; 91; 0;30520
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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
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26; 2200.7; 01-JAN-2008 05:38:42; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;30520
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29; 2612.0; 01-JAN-2008 05:45:33; Bright; 34.0; 149; 45Eps Per ; 2.89; 30000;occ; 68; 0;30520
30; 2693.3; 01-JAN-2008 05:46:54; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;30520
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3;-1988.1; 01-JAN-2008 06:09:29; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;30520
4;-1614.5; 01-JAN-2008 06:15:42; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;30520
5;-1490.7; 01-JAN-2008 06:17:46; Bright; 55.0; 67; 5Alp CrB ; 2.22; 11000;occ; 110; 0;30520
6;-1146.4; 01-JAN-2008 06:23:31; Bright; 35.0; 102; 24Alp Ser ; 2.60; 4250;occ; 70; 0;30520
7;-1006.9; 01-JAN-2008 06:25:50; Bright; 33.0; 120; 1Del Oph ; 2.73; 3200;occ; 66; 0;30520
8;-843.1; 01-JAN-2008 06:28:34; Bright; 38.5; 104; 27Bet Lib ; 2.61; 13100;occ; 77; 0;30520
9;-684.5; 01-JAN-2008 06:31:13; Dark ; 46.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 93; 0;30520
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12; -193.5; 01-JAN-2008 06:39:24; Dark ; 41.0; 78; Alp Lup ; 2.30; 28000;occ; 82; 0;30520
13; -105.3; 01-JAN-2008 06:40:52; Dark ; 39.5; 95; Zet Cen ; 2.55; 26000;occ; 79; 0;30520
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22; 1569.3; 01-JAN-2008 07:08:46; Dark ; 42.0; 47; 2Bet CMA ; 1.98; 28000;occ; 84; 0;30521
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28; 6449.4; 04-JAN-2008 18:39:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30570
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27; 6051.1; 04-JAN-2008 20:13:25; Dark ; 41.0; 4; Alp1Cen ; -0.01; 5800;occ; 82; 0;30571
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13; 1354.3; 05-JAN-2008 01:37:31; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;30575
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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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 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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 8; 2477.3; 06-JAN-2008 16:30:01; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30598
 9; 2689.5; 06-JAN-2008 16:33:33; Bright; 37.0; 6; 13Alp Aur ; 0.08; 3400;occ; 74; 0;30598
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 11; 3682.9; 06-JAN-2008 16:50:06; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;30598
 12; 3924.5; 06-JAN-2008 16:54:08; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;30598
 13; 4060.9; 06-JAN-2008 16:56:24; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;30598
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 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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 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
 20; 5377.0; 06-JAN-2008 18:58:57; Dark ; 40.5; 80; 7Del Sco ; 2.32; 30000;occ; 81; 0;30599
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 22; 5791.4; 06-JAN-2008 19:05:51; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;30599
 23; 5881.1; 06-JAN-2008 19:07:21; Dark ; 38.5; 78; Alp Lup ; 2.30; 28000;occ; 77; 0;30599
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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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14; 3924.4; 06-JAN-2008 20:15:20; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 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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15; 1887.8; 06-JAN-2008 23:02:35; Dark ; 40.5; 30; 46Eps Ori ; 1.69; 30000;occ; 81; 0;30602
16; 2031.3; 06-JAN-2008 23:04:59; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;30602
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 2; 1888.6; 07-JAN-2008 09:06:12; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;30608
 3; 2031.4; 07-JAN-2008 09:08:34; Dark ; 52.5; 14; 58Alp Ori ; 0.87; 3000;occ; 105; 0;30608
 4; 2268.2; 07-JAN-2008 09:12:31; Bright; 35.5; 176; 23Zet Tau ; 3.02; 22000;occ; 71; 0;30608
 5; 2395.2; 07-JAN-2008 09:14:38; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30608

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6; 2478.5; 07-JAN-2008 09:16:01; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30608
7; 2689.5; 07-JAN-2008 09:19:32; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;30608
8; 3424.1; 07-JAN-2008 09:31:47; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;30608
9; 3681.6; 07-JAN-2008 09:36:05; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;30608
10; 3924.6; 07-JAN-2008 09:40:08; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30608
11; 4062.3; 07-JAN-2008 09:42:25; Bright; 50.5; 130; 23Bet Dra ; 2.80; 5800;occ; 101; 0;30608
12; 4435.4; 07-JAN-2008 09:48:38; Bright; 49.5; 133; 40Zet Her ; 2.81; 6000;occ; 99; 0;30608
13; 4614.3; 07-JAN-2008 09:51:37; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;30608
14; 4918.5; 07-JAN-2008 09:56:41; Bright; 38.5; 102; 24Alp Ser ; 2.60; 4250;occ; 77; 0;30608
15; 5053.0; 07-JAN-2008 09:58:56; Bright; 34.0; 120; 1Del Oph ; 2.73; 3200;occ; 68; 0;30608
16; 5380.2; 07-JAN-2008 10:04:23; Dark ; 40.0; 80; 7Del Sco ; 2.32; 30000;occ; 80; 0;30608
17; 5706.4; 07-JAN-2008 10:09:49; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;30608
18; 5796.0; 07-JAN-2008 10:11:19; Dark ; 39.5; 109; Bet Lup ; 2.68; 26000;occ; 79; 0;30608
19; 5885.8; 07-JAN-2008 10:12:49; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;30608
20; 6064.3; 07-JAN-2008 10:15:47; Dark ; 41.5; 4; Alp1Cen ; -0.01; 5800;occ; 83; 0;30608
21; 6309.9; 07-JAN-2008 10:19:53; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;30608
22; 6460.2; 07-JAN-2008 10:22:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30608
23; 6613.4; 07-JAN-2008 10:24:56; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30608
24; 6710.9; 07-JAN-2008 10:26:34; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30608
25; 6797.8; 07-JAN-2008 10:28:01; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0;30608
26; 7035.8; 07-JAN-2008 10:31:59; Dark ; 44.0; 2; Alp Car ; -0.74; 7000;occ; 88; 0;30608
27; 7237.7; 07-JAN-2008 10:35:21; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;30608
28; 7398.8; 07-JAN-2008 10:38:02; Dark ; 44.5; 23; 21Eps CMa ; 1.50; 26000;occ; 89; 0;30608
29; 7617.6; 07-JAN-2008 10:41:40; Dark ; 39.5; 47; 2Bet CMa ; 1.98; 28000;occ; 79; 0;30608

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3; 2031.3; 07-JAN-2008 10:49:10; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;30609
4; 2268.0; 07-JAN-2008 10:53:07; Bright; 36.5; 176; 23Zet Tau ; 3.02; 22000;occ; 73; 0;30609
5; 2395.1; 07-JAN-2008 10:55:14; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;30609
6; 2478.6; 07-JAN-2008 10:56:37; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30609
7; 2689.4; 07-JAN-2008 11:00:08; Bright; 39.0; 6; 13Alp Aur ; 0.08; 3400;occ; 78; 0;30609
8; 3424.1; 07-JAN-2008 11:12:23; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;30609
9; 3681.4; 07-JAN-2008 11:16:40; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;30609
10; 3924.6; 07-JAN-2008 11:20:43; Bright; 34.5; 119; 14Eta Dra ; 2.73; 4700;occ; 69; 0;30609
11; 4062.3; 07-JAN-2008 11:23:01; Bright; 52.0; 130; 23Bet Dra ; 2.80; 5800;occ; 104; 0;30609
12; 4435.5; 07-JAN-2008 11:29:14; Bright; 43.5; 133; 40Zet Her ; 2.81; 6000;occ; 87; 0;30609
13; 4614.4; 07-JAN-2008 11:32:13; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;30609
14; 4918.8; 07-JAN-2008 11:37:18; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;30609
15; 5053.2; 07-JAN-2008 11:39:32; Bright; 35.0; 120; 1Del Oph ; 2.73; 3200;occ; 70; 0;30609
16; 5380.7; 07-JAN-2008 11:45:00; Dark ; 41.5; 80; 7Del Sco ; 2.32; 30000;occ; 83; 0;30609
17; 5706.9; 07-JAN-2008 11:50:26; Dark ; 38.5; 131; Gam Lup ; 2.80; 26000;occ; 77; 0;30609
18; 5796.4; 07-JAN-2008 11:51:55; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30609
19; 5886.2; 07-JAN-2008 11:53:25; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;30609
20; 6064.6; 07-JAN-2008 11:56:23; Dark ; 40.0; 4; Alp1Cen ; -0.01; 5800;occ; 80; 0;30609
21; 6310.4; 07-JAN-2008 12:00:29; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30609
22; 6460.4; 07-JAN-2008 12:02:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30609
23; 6613.6; 07-JAN-2008 12:05:32; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30609
24; 6711.4; 07-JAN-2008 12:07:10; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30609
25; 6798.2; 07-JAN-2008 12:08:37; Dark ; 39.0; 41; Eps Car ; 1.86; 4100;occ; 78; 0;30609
26; 7036.0; 07-JAN-2008 12:12:35; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;30609
27; 7238.0; 07-JAN-2008 12:15:57; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;30609
28; 7399.0; 07-JAN-2008 12:18:38; Dark ; 43.0; 23; 21Eps CMa ; 1.50; 26000;occ; 86; 0;30609
29; 7617.7; 07-JAN-2008 12:22:17; Dark ; 39.5; 47; 2Bet CMa ; 1.98; 28000;occ; 79; 0;30609

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3; 1888.7; 07-JAN-2008 12:27:23; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;30610
4; 2031.4; 07-JAN-2008 12:29:46; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;30610
5; 2268.1; 07-JAN-2008 12:33:43; Bright; 34.0; 176; 23Zet Tau ; 3.02; 22000;occ; 68; 0;30610
6; 2395.2; 07-JAN-2008 12:35:50; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30610
7; 2478.7; 07-JAN-2008 12:37:13; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;30610
8; 2689.5; 07-JAN-2008 12:40:44; Bright; 37.5; 6; 13Alp Aur ; 0.08; 3400;occ; 75; 0;30610
9; 3424.1; 07-JAN-2008 12:52:59; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30610
10; 3681.3; 07-JAN-2008 12:57:16; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;30610
11; 3924.6; 07-JAN-2008 13:01:19; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;30610
12; 4062.5; 07-JAN-2008 13:03:37; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;30610
13; 4435.7; 07-JAN-2008 13:09:50; Bright; 33.5; 133; 40Zet Her ; 2.81; 6000;occ; 67; 0;30610

14; 4614.7; 07-JAN-2008 13:12:49; Bright; 53.0; 127; 27Bet Her ; 2.78; 4700;occ; 106; 0;30610
 15; 4919.2; 07-JAN-2008 13:17:54; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;30610
 16; 5053.5; 07-JAN-2008 13:20:08; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;30610
 17; 5380.9; 07-JAN-2008 13:25:36; Dark ; 41.5; 80; 7Del Sco ; 2.32; 30000;occ; 83; 0;30610
 18; 5707.2; 07-JAN-2008 13:31:02; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30610
 19; 5797.0; 07-JAN-2008 13:32:32; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30610
 20; 5886.8; 07-JAN-2008 13:34:02; Dark ; 39.0; 78; Alp Lup ; 2.30; 28000;occ; 78; 0;30610
 21; 6065.0; 07-JAN-2008 13:37:00; Dark ; 44.0; 4; Alp1Cen ;-0.01; 5800;occ; 88; 0;30610
 22; 6311.0; 07-JAN-2008 13:41:06; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;30610
 23; 6460.8; 07-JAN-2008 13:43:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30610
 24; 6614.0; 07-JAN-2008 13:46:09; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;30610
 25; 6711.9; 07-JAN-2008 13:47:47; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;30610
 26; 6798.7; 07-JAN-2008 13:49:13; Dark ; 41.5; 41; Eps Car ; 1.86; 4100;occ; 83; 0;30610
 27; 7036.3; 07-JAN-2008 13:53:11; Dark ; 45.0; 2; Alp Car ;-0.74; 7000;occ; 90; 0;30610
 28; 7238.4; 07-JAN-2008 13:56:33; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;30610
 29; 7399.2; 07-JAN-2008 13:59:14; Dark ; 42.5; 23; 21Eps CMa ; 1.50; 26000;occ; 85; 0;30610

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 2; 1782.8; 07-JAN-2008 14:06:13; Dark ; 49.5; 7; 19Bet Ori ; 0.10; 14000;occ; 99; 0;30611
 3; 1888.9; 07-JAN-2008 14:07:59; Dark ; 40.0; 30; 46Eps Ori ; 1.69; 30000;occ; 80; 0;30611
 4; 2031.5; 07-JAN-2008 14:10:22; Dark ; 46.5; 14; 58Alp Ori ; 0.87; 3000;occ; 93; 0;30611
 5; 2268.1; 07-JAN-2008 14:14:19; Bright; 36.5; 176; 23Zet Tau ; 3.02; 22000;occ; 73; 0;30611
 6; 2395.2; 07-JAN-2008 14:16:26; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30611
 7; 2478.9; 07-JAN-2008 14:17:49; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;30611
 8; 2689.5; 07-JAN-2008 14:21:20; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;30611
 9; 3424.2; 07-JAN-2008 14:33:35; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;30611
 10; 3681.2; 07-JAN-2008 14:37:52; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;30611
 11; 3924.6; 07-JAN-2008 14:41:55; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;30611
 12; 4062.8; 07-JAN-2008 14:44:13; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 0;30611
 13; 4436.0; 07-JAN-2008 14:50:27; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;30611
 14; 4615.0; 07-JAN-2008 14:53:26; Bright; 41.5; 127; 27Bet Her ; 2.78; 4700;occ; 83; 0;30611
 15; 4919.7; 07-JAN-2008 14:58:30; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;30611
 16; 5053.9; 07-JAN-2008 15:00:45; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;30611
 17; 5381.4; 07-JAN-2008 15:06:12; Dark ; 40.0; 80; 7Del Sco ; 2.32; 30000;occ; 80; 0;30611
 18; 5707.7; 07-JAN-2008 15:11:38; Dark ; 36.5; 131; Gam Lup ; 2.80; 26000;occ; 73; 0;30611
 19; 5797.5; 07-JAN-2008 15:13:08; Dark ; 38.0; 109; Bet Lup ; 2.68; 26000;occ; 76; 0;30611
 20; 5887.4; 07-JAN-2008 15:14:38; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;30611
 21; 6065.4; 07-JAN-2008 15:17:36; Dark ; 49.0; 4; Alp1Cen ;-0.01; 5800;occ; 98; 0;30611
 22; 6311.5; 07-JAN-2008 15:21:42; Dark ; 42.5; 12; Alp1Cru ; 0.77; 30000;occ; 85; 0;30611
 23; 6461.1; 07-JAN-2008 15:24:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30611
 24; 6614.4; 07-JAN-2008 15:26:45; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30611
 25; 6712.5; 07-JAN-2008 15:28:23; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;30611
 26; 6799.1; 07-JAN-2008 15:29:50; Dark ; 47.5; 41; Eps Car ; 1.86; 4100;occ; 95; 0;30611
 27; 7036.5; 07-JAN-2008 15:33:47; Dark ; 42.5; 2; Alp Car ;-0.74; 7000;occ; 85; 0;30611
 28; 7238.7; 07-JAN-2008 15:37:09; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;30611
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 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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 7; 2395.3; 07-JAN-2008 15:57:02; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;30612
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 9; 2689.5; 07-JAN-2008 16:01:56; Bright; 38.5; 6; 13Alp Aur ; 0.08; 3400;occ; 77; 0;30612
 10; 3424.2; 07-JAN-2008 16:14:11; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;30612
 11; 3681.0; 07-JAN-2008 16:18:28; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;30612
 12; 3924.6; 07-JAN-2008 16:22:31; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;30612
 13; 4062.9; 07-JAN-2008 16:24:49; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;30612
 14; 4436.3; 07-JAN-2008 16:31:03; Bright; 50.5; 133; 40Zet Her ; 2.81; 6000;occ; 101; 0;30612
 15; 4615.1; 07-JAN-2008 16:34:02; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;30612
 16; 4920.1; 07-JAN-2008 16:39:07; Bright; 38.0; 102; 24Alp Ser ; 2.60; 4250;occ; 76; 0;30612
 17; 5054.3; 07-JAN-2008 16:41:21; Bright; 35.5; 120; 1Del Oph ; 2.73; 3200;occ; 71; 0;30612
 18; 5381.8; 07-JAN-2008 16:46:48; Dark ; 42.5; 80; 7Del Sco ; 2.32; 30000;occ; 85; 0;30612
 19; 5708.2; 07-JAN-2008 16:52:15; Dark ; 37.0; 131; Gam Lup ; 2.80; 26000;occ; 74; 0;30612
 20; 5798.1; 07-JAN-2008 16:53:45; Dark ; 38.5; 109; Bet Lup ; 2.68; 26000;occ; 77; 0;30612
 21; 5887.9; 07-JAN-2008 16:55:14; Dark ; 38.0; 78; Alp Lup ; 2.30; 28000;occ; 76; 0;30612

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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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26; 6713.0; 07-JAN-2008 17:09:00; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;30612
27; 6799.6; 07-JAN-2008 17:10:26; Dark ; 46.0; 41; Eps Car ; 1.86; 4100;occ; 92; 0;30612
28; 7036.8; 07-JAN-2008 17:14:23; Dark ; 45.5; 2; Alp Car ; -0.74; 7000;occ; 91; 0;30612
29; 7239.2; 07-JAN-2008 17:17:46; Dark ; 42.5; 117; Pi Pup ; 2.71; 3800;occ; 85; 0;30612
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 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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13; 3924.7; 07-JAN-2008 18:03:07; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;30613
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32;	7635.8;	11-JAN-2008	08:35:31;	Dark	;	47.5;	1;	9Alp CMa	;	-1.44;	11000;occ;	95;	0;	30664
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4;	2269.9;	11-JAN-2008	08:46:41;	Bright;		35.0;	176;	23Zet Tau	;	3.02;	22000;occ;	70;	0;	30665
5;	2397.8;	11-JAN-2008	08:48:49;	Bright;		37.0;	28;	12Bet Tau	;	1.65;	15200;occ;	74;	0;	30665
6;	2486.7;	11-JAN-2008	08:50:18;	Bright;		37.0;	114;	3Iot Aur	;	2.69;	4600;occ;	74;	0;	30665
7;	2676.3;	11-JAN-2008	08:53:27;	Bright;		37.0;	42;	34Bet Aur	;	1.90;	10200;occ;	74;	0;	30665
8;	3424.7;	11-JAN-2008	09:05:56;	Bright;		32.0;	49;	1Alp UMi	;	1.99;	6300;occ;	64;	0;	30665
9;	3673.8;	11-JAN-2008	09:10:05;	Bright;		39.5;	60;	7Bet UMi	;	2.08;	3950;occ;	79;	0;	30665
10;	3924.3;	11-JAN-2008	09:14:15;	Bright;		36.5;	119;	14Eta Dra	;	2.73;	4700;occ;	73;	0;	30665
11;	4069.9;	11-JAN-2008	09:16:41;	Bright;		34.0;	130;	23Bet Dra	;	2.80;	5800;occ;	68;	0;	30665
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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
28;	7048.0;	11-JAN-2008	10:06:19;	Dark	;	51.0;	2;	Alp Car	;	-0.74;	7000;occ;	102;	0;	30665
29;	7255.0;	11-JAN-2008	10:09:46;	Dark	;	44.0;	117;	Pi Pup	;	2.71;	3800;occ;	88;	0;	30665
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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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29; 7255.2; 11-JAN-2008 11:50:22; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;30666
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 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
 8; 2435.2; 25-JAN-2008 16:32:11; Bright; 38.0; 28; 12Bet Tau ; 1.65; 15200;occ; 76; 0;30870
 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
 29; 7090.1; 25-JAN-2008 17:49:46; Dark ; 41.5; 34; Gam2Vel ; 1.79; 23000;occ; 83; 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
 7; 2062.2; 25-JAN-2008 18:06:34; Dark ; 46.5; 14; 58Alp Ori ; 0.87; 3000;occ; 93; 0;30871
 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
 14; 4086.0; 25-JAN-2008 18:40:18; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;30871
 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
 14; 4086.0; 25-JAN-2008 20:20:54; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;30872
 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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