

GOMOS Daily Report 22-JUN-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	24JUN2008 05:32:15
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (22JUN2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (23JUN2008 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)

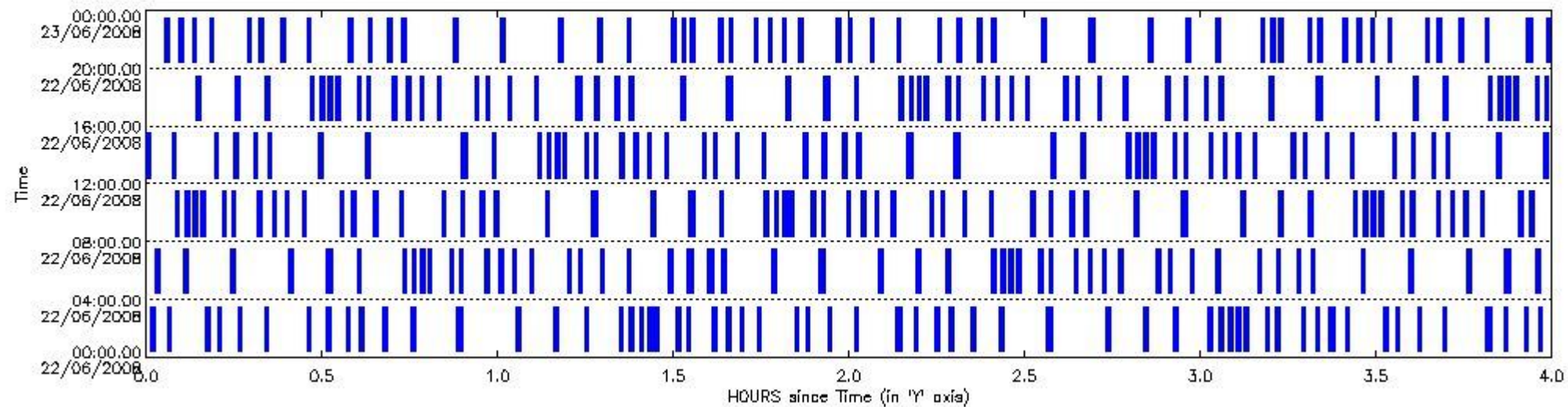
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

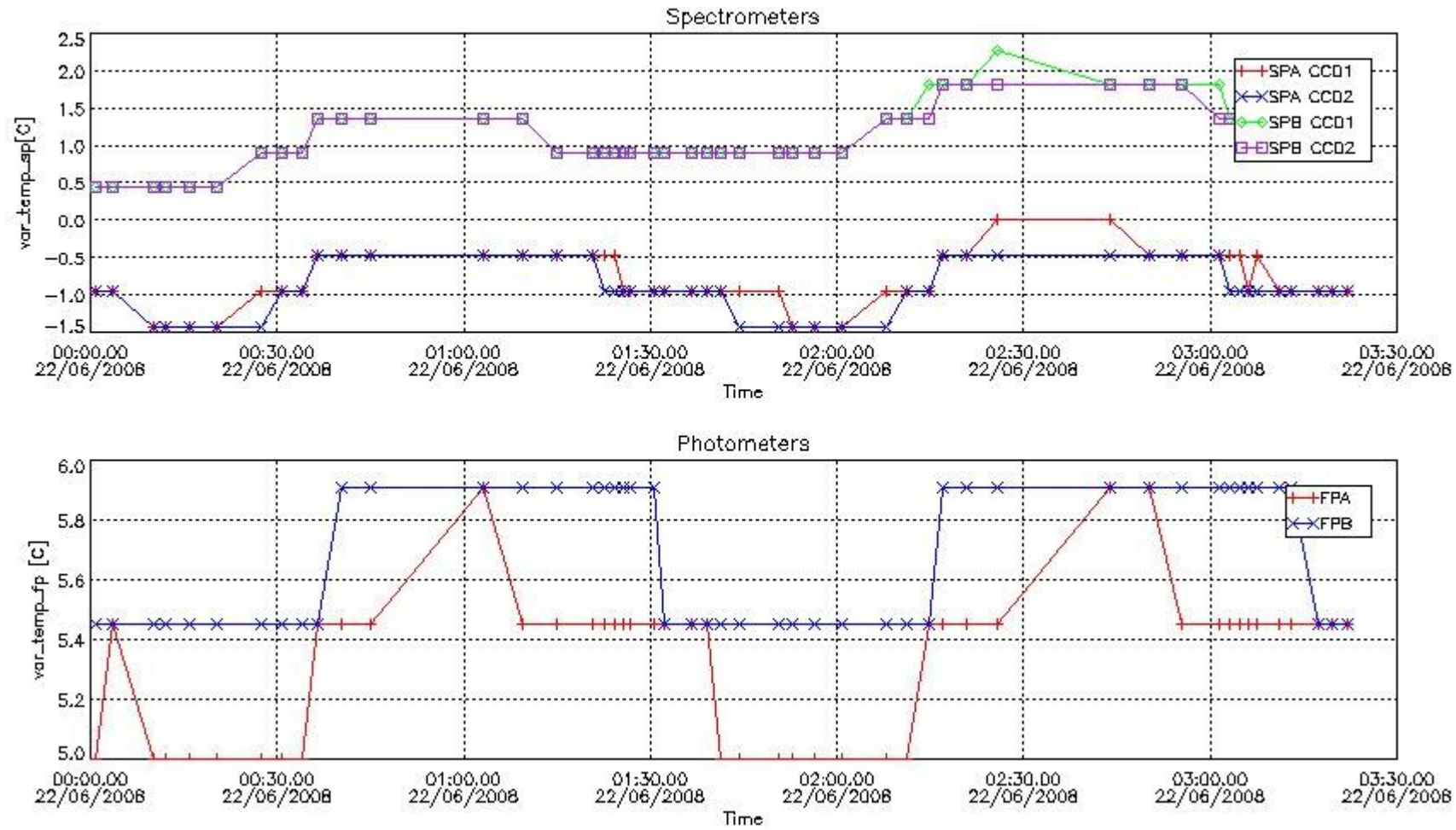
No missing products.

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_1PNPDE20080622_000046_000000382069_00374_32993_4154.N1	22-JUN-2008 00:00:46	Bright	37.500	127	27Bet Her	2.7810	4700.0	75	32993	No
2	GOM_TRA_1PNPDE20080622_000340_000000382069_00374_32993_4155.N1	22-JUN-2008 00:03:40	Bright	37.500	133	40Zet Her	2.8070	6000.0	75	32993	No
3	GOM_TRA_1PNPDE20080622_001009_000000362069_00374_32993_4156.N1	22-JUN-2008 00:10:09	Bright	35.500	130	23Bet Dra	2.7990	5800.0	71	32993	No
4	GOM_TRA_1PNPDE20080622_001206_000000382069_00374_32993_4157.N1	22-JUN-2008 00:12:06	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	32993	No
5	GOM_TRA_1PNPDE20080622_001549_000000322069_00374_32993_4158.N1	22-JUN-2008 00:15:49	Bright	32.000	60	7Bet UMi	2.0810	3950.0	64	32993	No
6	GOM_TRA_1PNPDE20080622_002019_000000332069_00374_32993_4159.N1	22-JUN-2008 00:20:19	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	32993	No
7	GOM_TRA_1PNPDE20080622_002726_000000422069_00374_32993_4160.N1	22-JUN-2008 00:27:26	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	32993	No
8	GOM_TRA_1PNPDE20080622_003037_000000522069_00374_32993_4161.N1	22-JUN-2008 00:30:37	Bright	51.500	160	23Gam Per	2.9300	4700.0	103	32993	No
9	GOM_TRA_1PNPDE20080622_003403_000000442069_00374_32993_4162.N1	22-JUN-2008 00:34:03	Bright	43.500	73	57Gam1And	2.2600	13100.	87	32993	No
10	GOM_TRA_1PNPDE20080622_003627_000000432069_00374_32993_4163.N1	22-JUN-2008 00:36:27	Twilight	43.000	173	4Bet Tri	3.0040	8900.0	86	32993	No
11	GOM_TRA_1PNPDE20080622_004015_000000552069_00374_32993_4164.N1	22-JUN-2008 00:40:15	Twilight	55.000	50	13Alp Ari	2.0070	4250.0	110	32993	No
12	GOM_TRA_1PNPDE20080622_004504_000000472069_00374_32993_4165.N1	22-JUN-2008 00:45:04	Dark	46.500	94	92Alp Cet	2.5260	3100.0	93	32993	No

13	GOM_TRA_1PNPDE20080622_010308_000000402069_00374_32993_4278.N1	22-JUN-2008 01:03:08	Dark	39.500	9	Alp Eri	0.45300	24000.	79	32993	No
14	GOM_TRA_1PNPDE20080622_010933_000000512069_00375_32994_4279.N1	22-JUN-2008 01:09:33	Dark	51.000	63	Bet Gru	2.1500	2800.0	102	32994	No
15	GOM_TRA_1PNPDE20080622_011449_000000422069_00375_32994_4280.N1	22-JUN-2008 01:14:49	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	32994	No
16	GOM_TRA_1PNPDE20080622_012044_000000372069_00375_32994_4281.N1	22-JUN-2008 01:20:44	Straylight	37.000	147	Alp Ara	2.8770	26000.	74	32994	No
17	GOM_TRA_1PNPDE20080622_012230_000000422069_00375_32994_4282.N1	22-JUN-2008 01:22:30	Twilight	41.500	40	The Sco	1.8590	7100.0	83	32994	No
18	GOM_TRA_1PNPDE20080622_012412_000000442069_00375_32994_4283.N1	22-JUN-2008 01:24:12	Twilight	43.500	25	35Lam Sco	1.6200	28000.	87	32994	No
19	GOM_TRA_1PNPDE20080622_012532_000000562069_00375_32994_4284.N1	22-JUN-2008 01:25:32	Bright	55.500	116	19Del Sgr	2.7000	4100.0	111	32994	No
20	GOM_TRA_1PNPDE20080622_012648_000000432069_00375_32994_4285.N1	22-JUN-2008 01:26:48	Bright	43.000	137	22Lam Sgr	2.8240	4400.0	86	32994	No
21	GOM_TRA_1PNPDE20080622_013034_000000382069_00375_32994_4286.N1	22-JUN-2008 01:30:34	Bright	38.000	86	35Eta Oph	2.4300	10200.	76	32994	No
22	GOM_TRA_1PNPDE20080622_013217_000000362069_00375_32994_4287.N1	22-JUN-2008 01:32:17	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	32994	No
23	GOM_TRA_1PNPDE20080622_013639_000000402069_00375_32994_4288.N1	22-JUN-2008 01:36:39	Bright	40.000	126	60Bet Oph	2.7700	4250.0	80	32994	No
24	GOM_TRA_1PNPDE20080622_013904_000000402069_00375_32994_4289.N1	22-JUN-2008 01:39:04	Bright	40.000	59	55Alp Oph	2.0800	8900.0	80	32994	No
25	GOM_TRA_1PNPDE20080622_014122_000000352069_00375_32994_4290.N1	22-JUN-2008 01:41:22	Bright	34.500	127	27Bet Her	2.7810	4700.0	69	32994	No
26	GOM_TRA_1PNPDE20080622_014416_000000372069_00375_32994_4291.N1	22-JUN-2008 01:44:16	Bright	37.000	133	40Zet Her	2.8070	6000.0	74	32994	No
27	GOM_TRA_1PNPDE20080622_015045_000000382069_00375_32994_4292.N1	22-JUN-2008 01:50:45	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	32994	No
28	GOM_TRA_1PNPDE20080622_015241_000000382069_00375_32994_4293.N1	22-JUN-2008 01:52:41	Bright	38.000	119	14Eta Dra	2.7270	4700.0	76	32994	No
29	GOM_TRA_1PNPDE20080622_015625_000000322069_00375_32994_4294.N1	22-JUN-2008 01:56:25	Bright	31.500	60	7Bet UMi	2.0810	3950.0	63	32994	No
30	GOM_TRA_1PNPDE20080622_020054_000000352069_00375_32994_4295.N1	22-JUN-2008 02:00:54	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	32994	No
31	GOM_TRA_1PNPDE20080622_020802_000000572069_00375_32994_4428.N1	22-JUN-2008 02:08:02	Bright	56.500	76	27Gam Cas	2.3000	30000.	113	32994	No
32	GOM_TRA_1PNPDE20080622_021113_000000362069_00375_32994_4429.N1	22-JUN-2008 02:11:13	Bright	35.500	160	23Gam Per	2.9300	4700.0	71	32994	No
33	GOM_TRA_1PNPDE20080622_021439_000000432069_00375_32994_4430.N1	22-JUN-2008 02:14:39	Bright	42.500	73	57Gam1And	2.2600	13100.	85	32994	No
34	GOM_TRA_1PNPDE20080622_021703_000000452069_00375_32994_4431.N1	22-JUN-2008 02:17:03	Twilight	44.500	173	4Bet Tri	3.0040	8900.0	89	32994	No
35	GOM_TRA_1PNPDE20080622_022052_000000512069_00375_32994_4432.N1	22-JUN-2008 02:20:52	Twilight	51.000	50	13Alp Ari	2.0070	4250.0	102	32994	No
36	GOM_TRA_1PNPDE20080622_022541_000000452069_00375_32994_4433.N1	22-JUN-2008 02:25:41	Dark	45.000	94	92Alp Cet	2.5260	3100.0	90	32994	No
37	GOM_TRA_1PNPDE20080622_024345_000000472069_00375_32994_4434.N1	22-JUN-2008 02:43:45	Dark	47.000	9	Alp Eri	0.45300	24000.	94	32994	No
38	GOM_TRA_1PNPDE20080622_025010_000000512069_00376_32995_4435.N1	22-JUN-2008 02:50:10	Dark	50.500	63	Bet Gru	2.1500	2800.0	101	32995	No
39	GOM_TRA_1PNPDE20080622_025525_000000422069_00376_32995_4436.N1	22-JUN-2008 02:55:25	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	32995	No
40	GOM_TRA_1PNPDE20080622_030120_000000382069_00376_32995_4437.N1	22-JUN-2008 03:01:20	Straylight	37.500	147	Alp Ara	2.8770	26000.	75	32995	No
41	GOM_TRA_1PNPDE20080622_030306_000000422069_00376_32995_4438.N1	22-JUN-2008 03:03:06	Twilight	42.000	40	The Sco	1.8590	7100.0	84	32995	No
42	GOM_TRA_1PNPDE20080622_030448_000000402069_00376_32995_4439.N1	22-JUN-2008 03:04:48	Twilight	40.000	25	35Lam Sco	1.6200	28000.	80	32995	No
43	GOM_TRA_1PNPDE20080622_030608_000000532069_00376_32995_4440.N1	22-JUN-2008 03:06:08	Bright	52.500	116	19Del Sgr	2.7000	4100.0	105	32995	No
44	GOM_TRA_1PNPDE20080622_030724_000000442069_00376_32995_4441.N1	22-JUN-2008 03:07:24	Bright	44.000	137	22Lam Sgr	2.8240	4400.0	88	32995	No
45	GOM_TRA_1PNPDE20080622_031110_000000382069_00376_32995_4442.N1	22-JUN-2008 03:11:10	Bright	37.500	86	35Eta Oph	2.4300	10200.	75	32995	No
46	GOM_TRA_1PNPDE20080622_031253_000000362069_00376_32995_4443.N1	22-JUN-2008 03:12:53	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	32995	No
47	GOM_TRA_1PNPDE20080622_031715_000000402069_00376_32995_4444.N1	22-JUN-2008 03:17:15	Bright	39.500	126	60Bet Oph	2.7700	4250.0	79	32995	No
48	GOM_TRA_1PNPDE20080622_031940_000000402069_00376_32995_4445.N1	22-JUN-2008 03:19:40	Bright	39.500	59	55Alp Oph	2.0800	8900.0	79	32995	No
49	GOM_TRA_1PNPDE20080622_032158_000000522069_00376_32995_4446.N1	22-JUN-2008 03:21:58	Bright	52.000	127	27Bet Her	2.7810	4700.0	104	32995	No

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



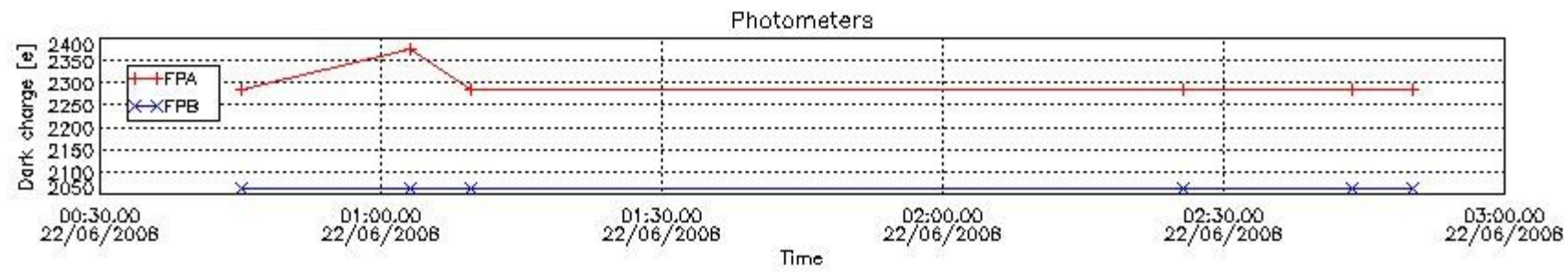
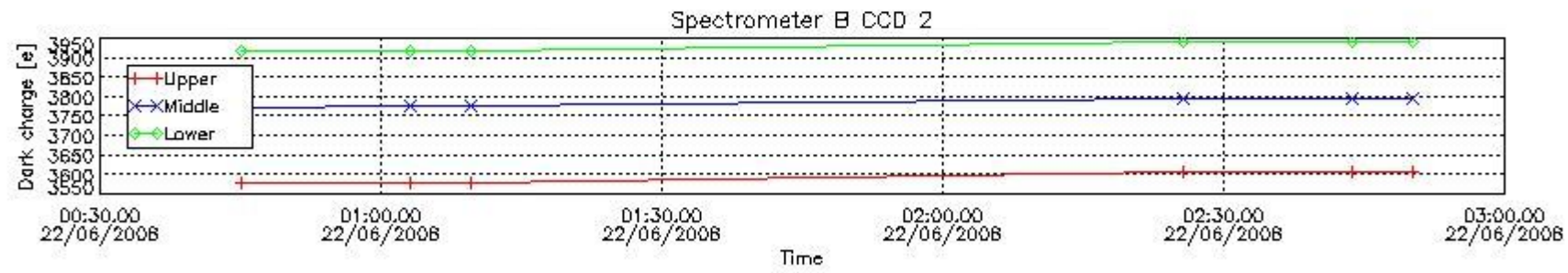
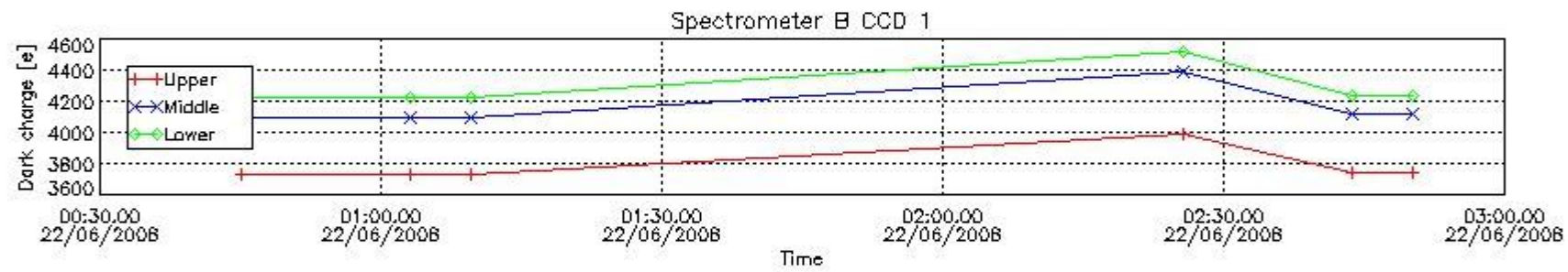
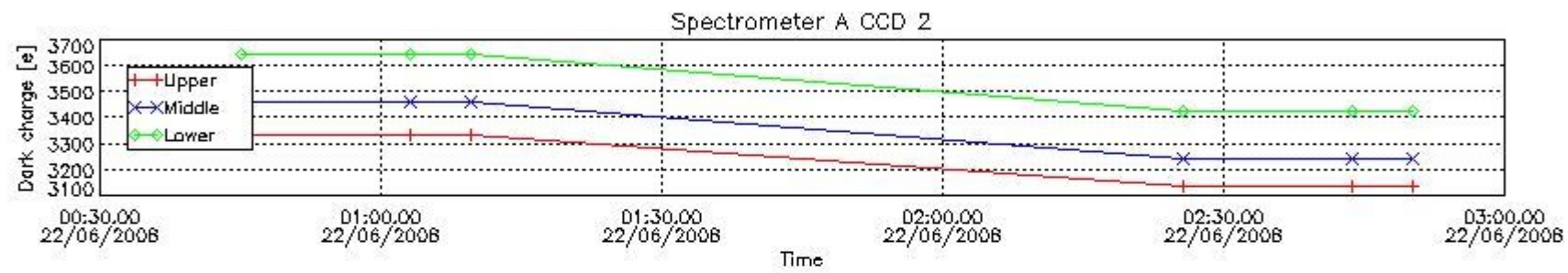
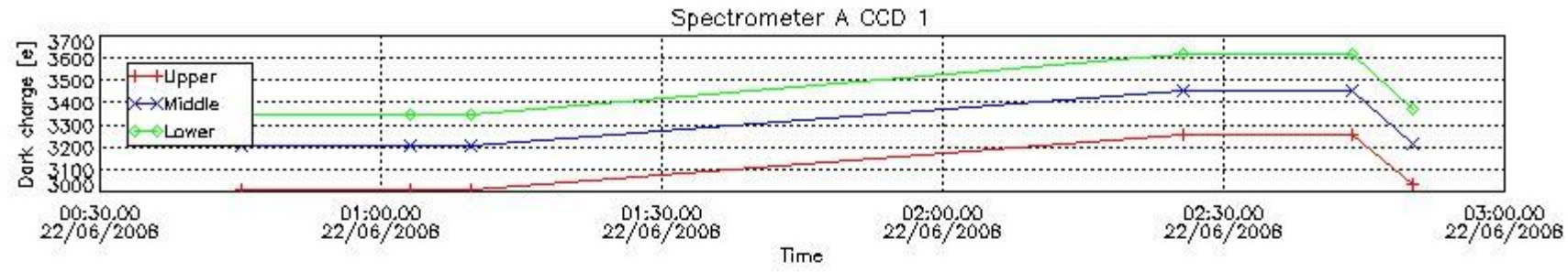
4. Overview of dark signal processing per product

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



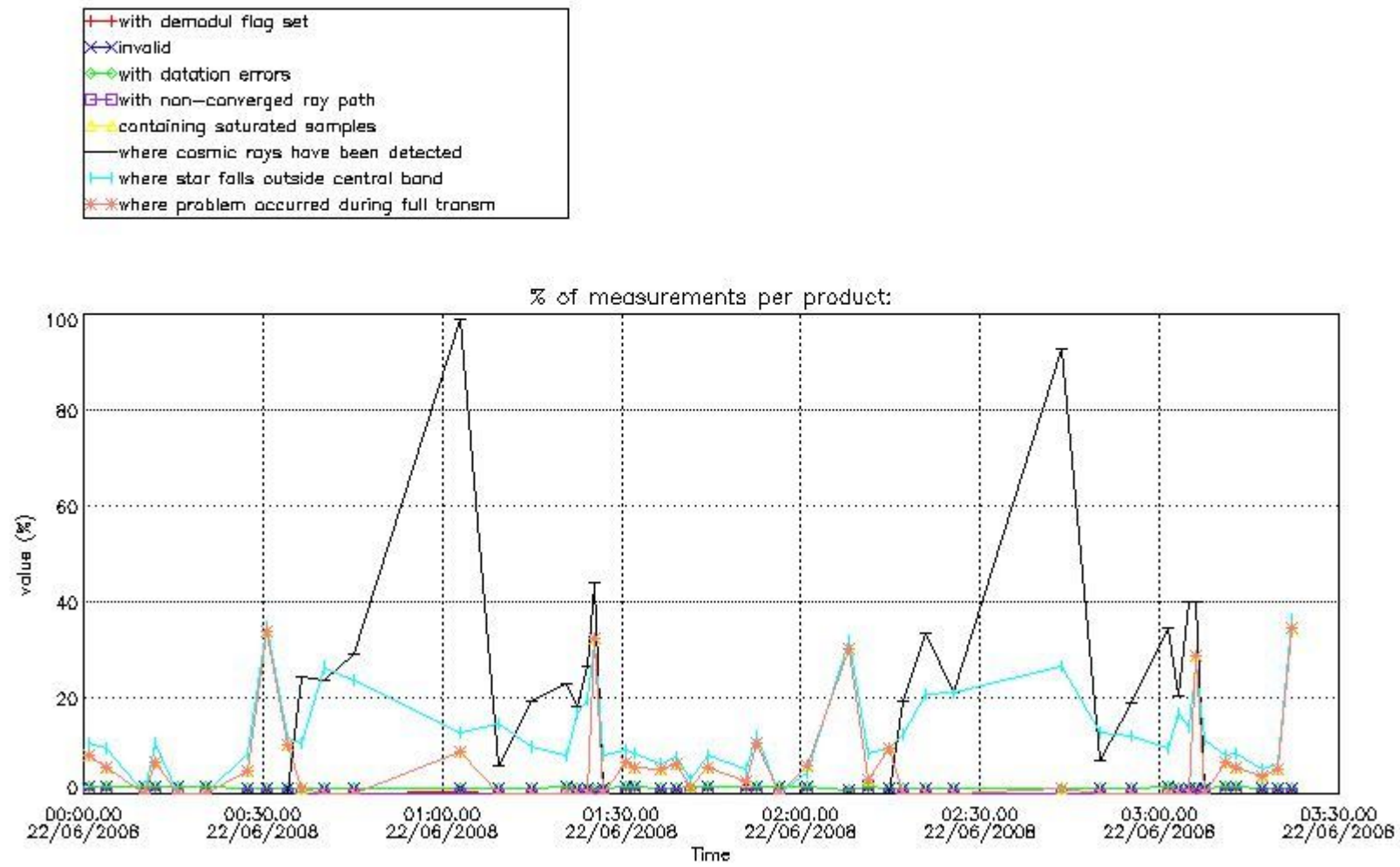
5. Demodulation flag and quality information monitoring

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.

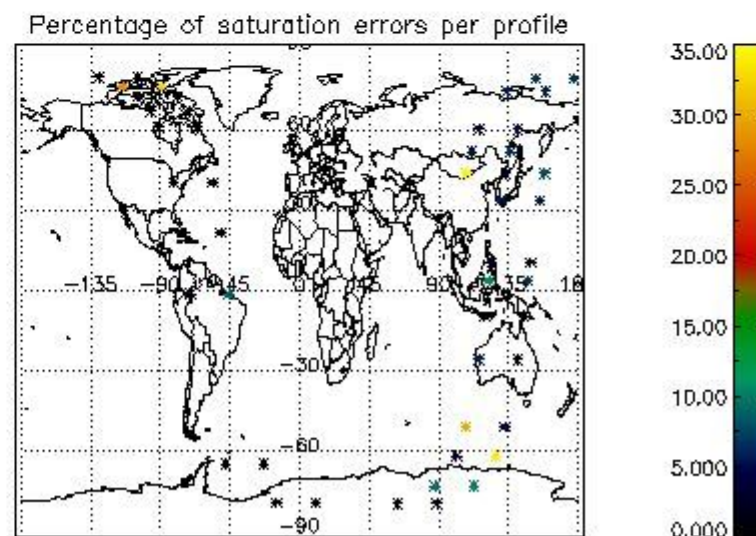
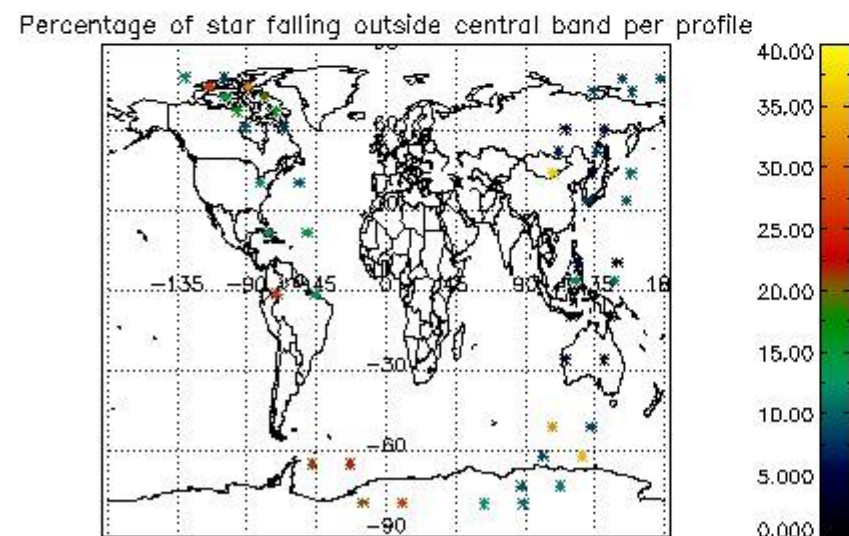
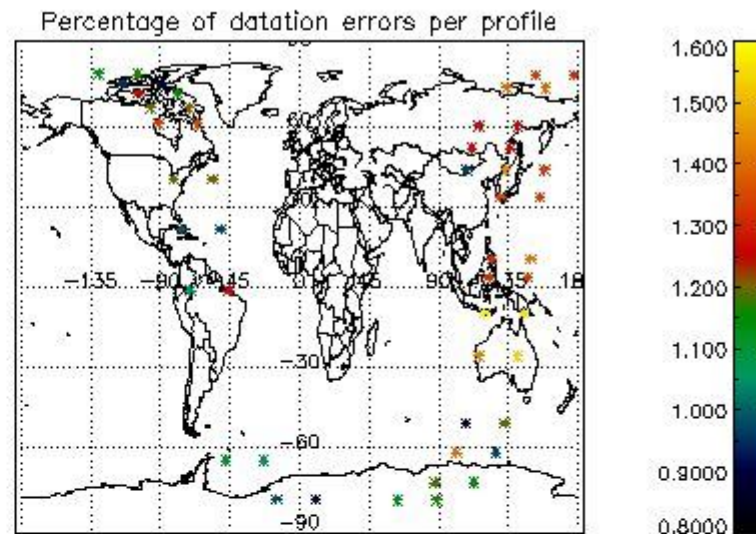
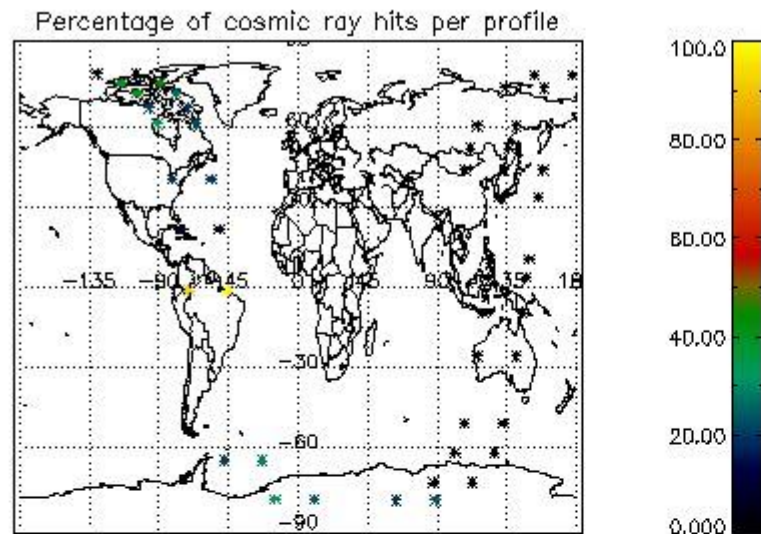
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	18.3673 %
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)



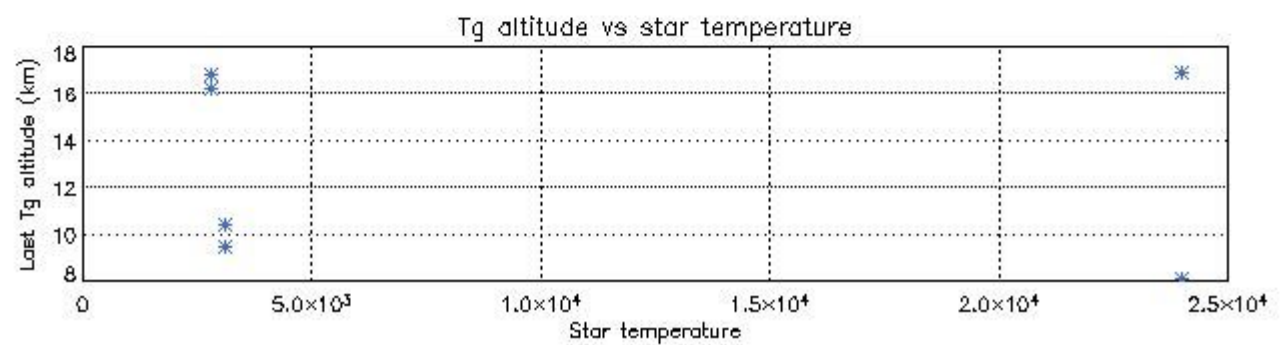
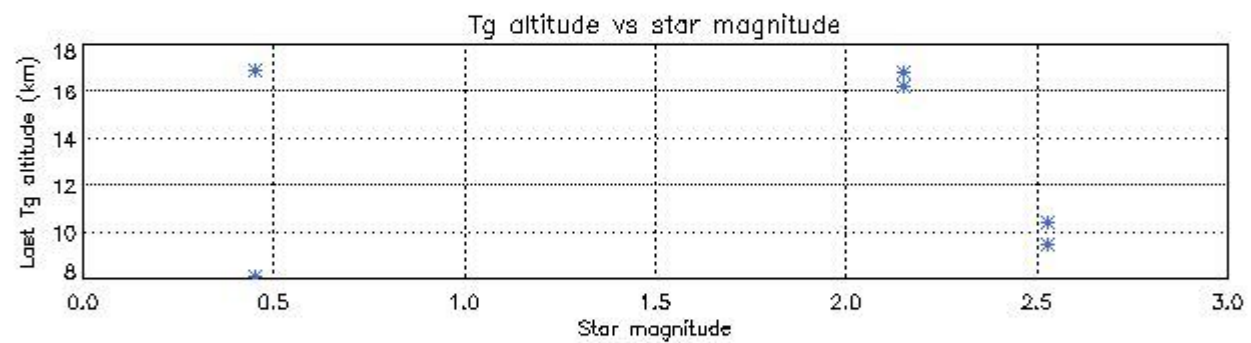
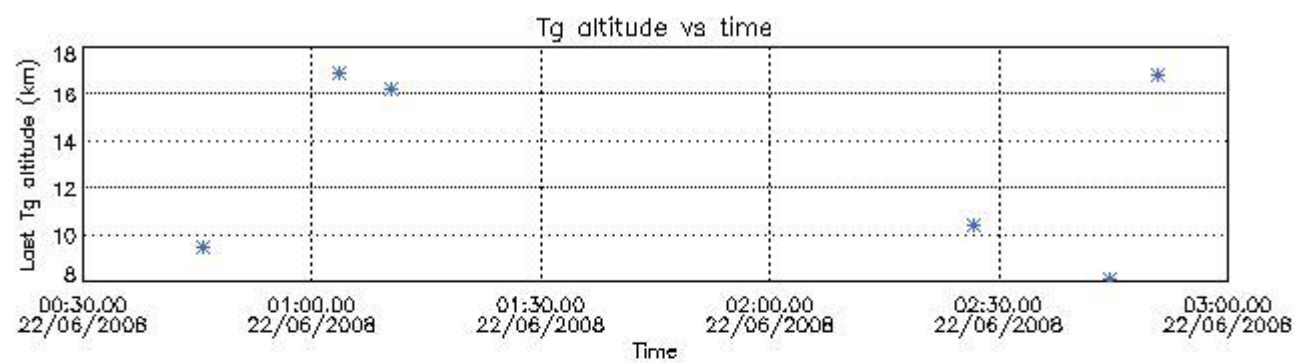
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.973	18.782	9.5655
St. deviation:	4.0741	6.7635	1.6624
Maximum:	16.911	30.930	10.741
Minimum:	8.1131	3.7959	8.3899
Number of data:	6.0000	31.000	2.0000

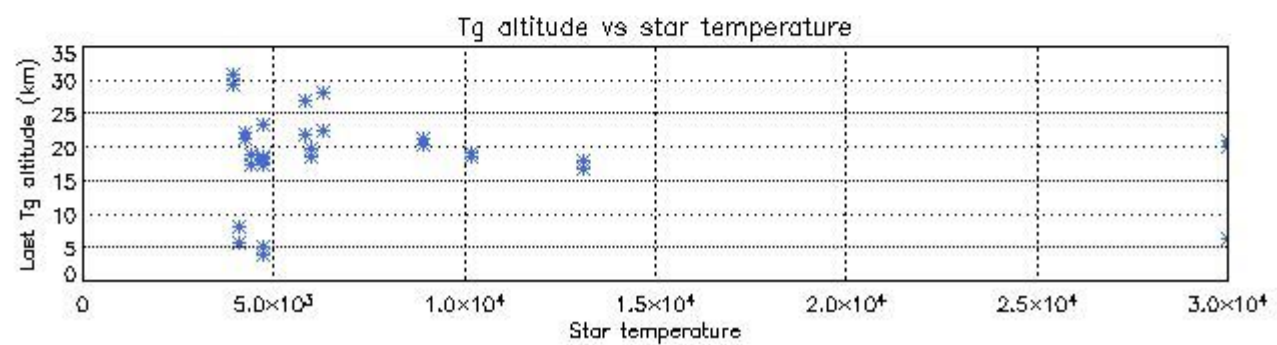
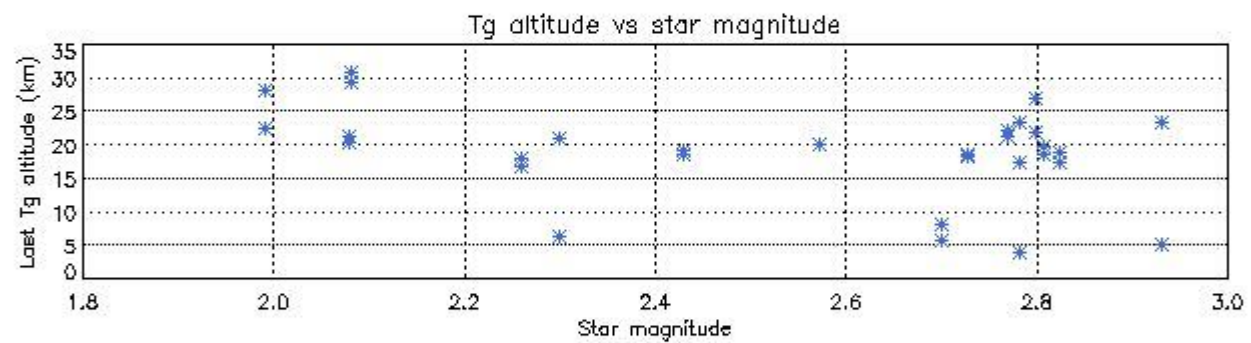
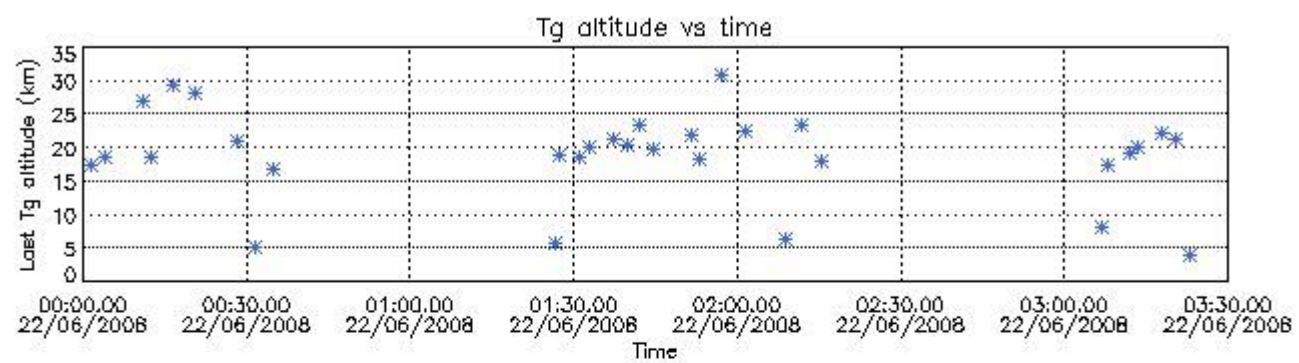
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



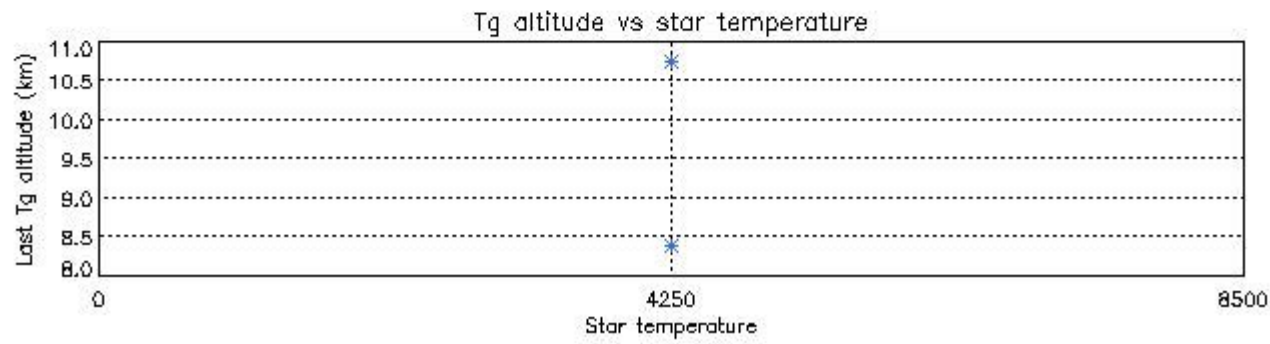
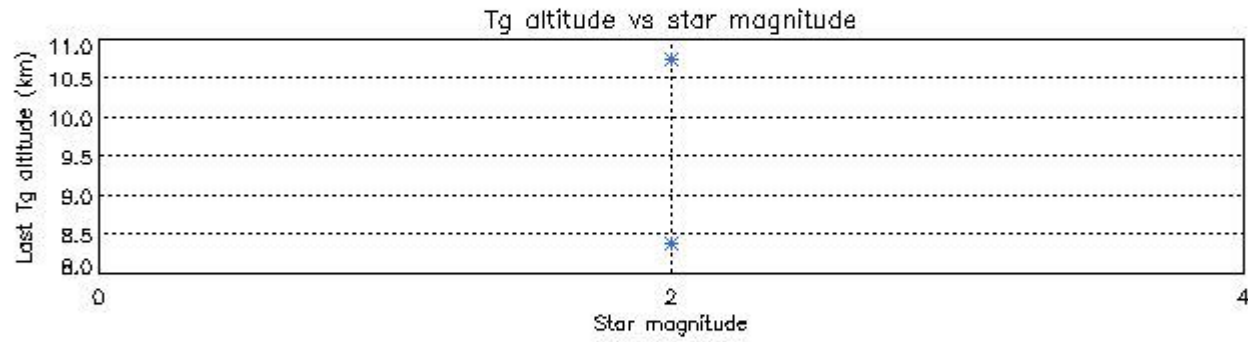
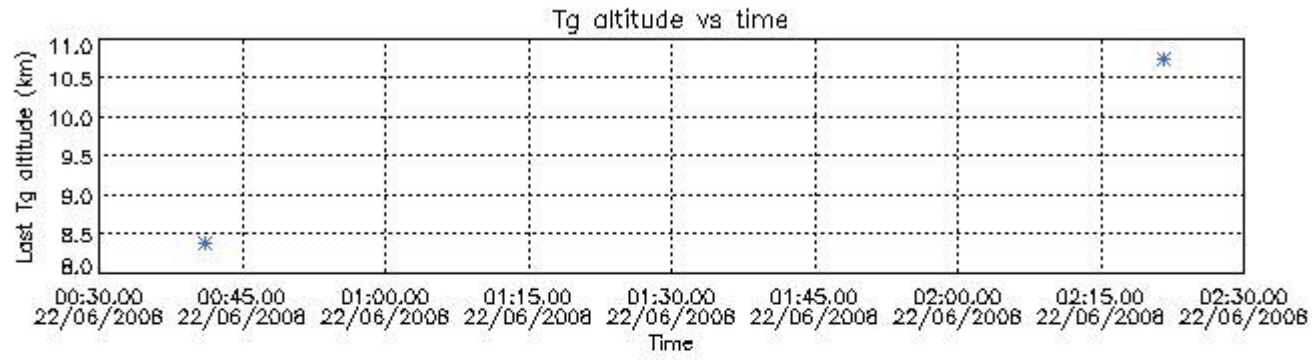
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

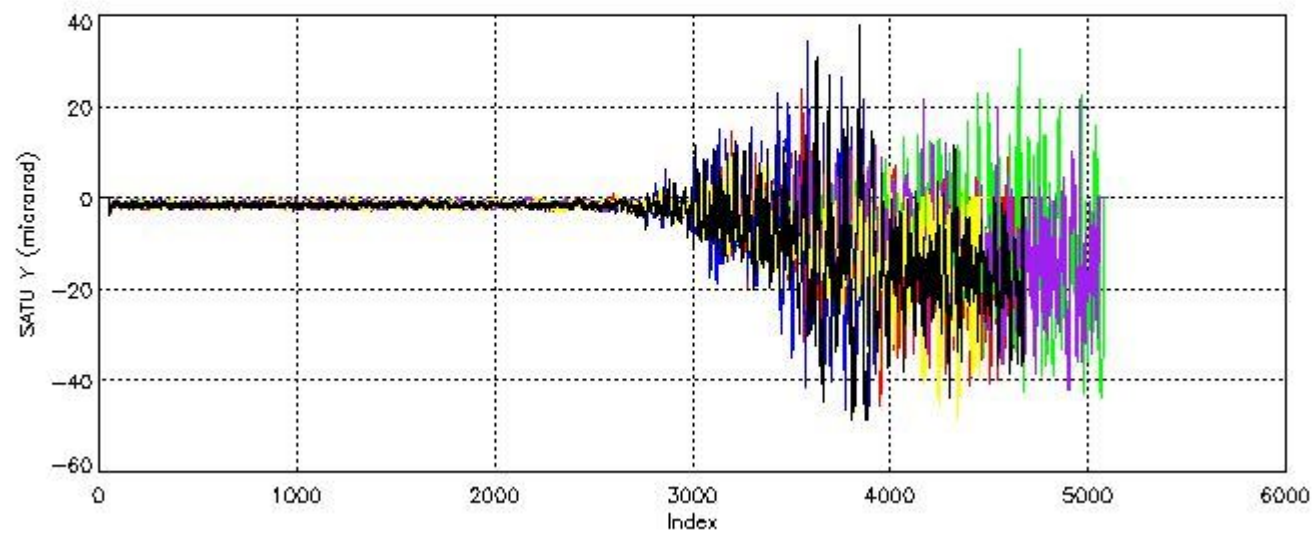
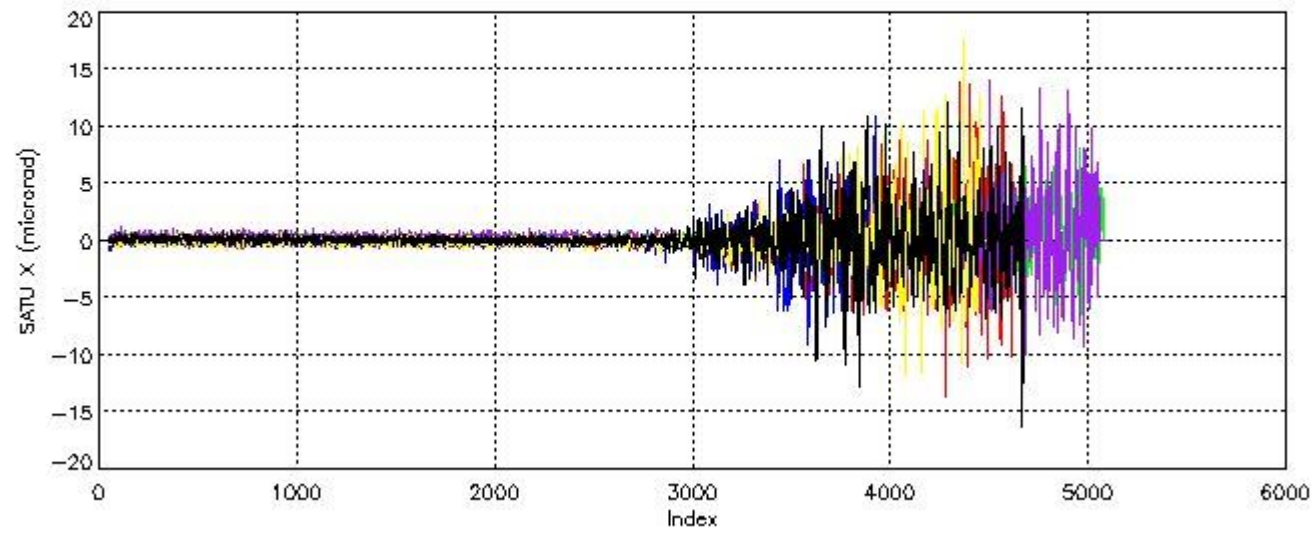


7. Star Acquisition and Tracking Unit (SATU)

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:	0.11675	-1.3201	0.15329	-1.3473
St. deviation:	0.19780	0.48851	0.70712	1.1691
Maximum:	0.80000	0.0000	4.0000	3.7000
Minimum:	-0.90000	-4.0000	-4.3000	-6.9000

Number of data:	5750.0	5750.0	26750.	26750.
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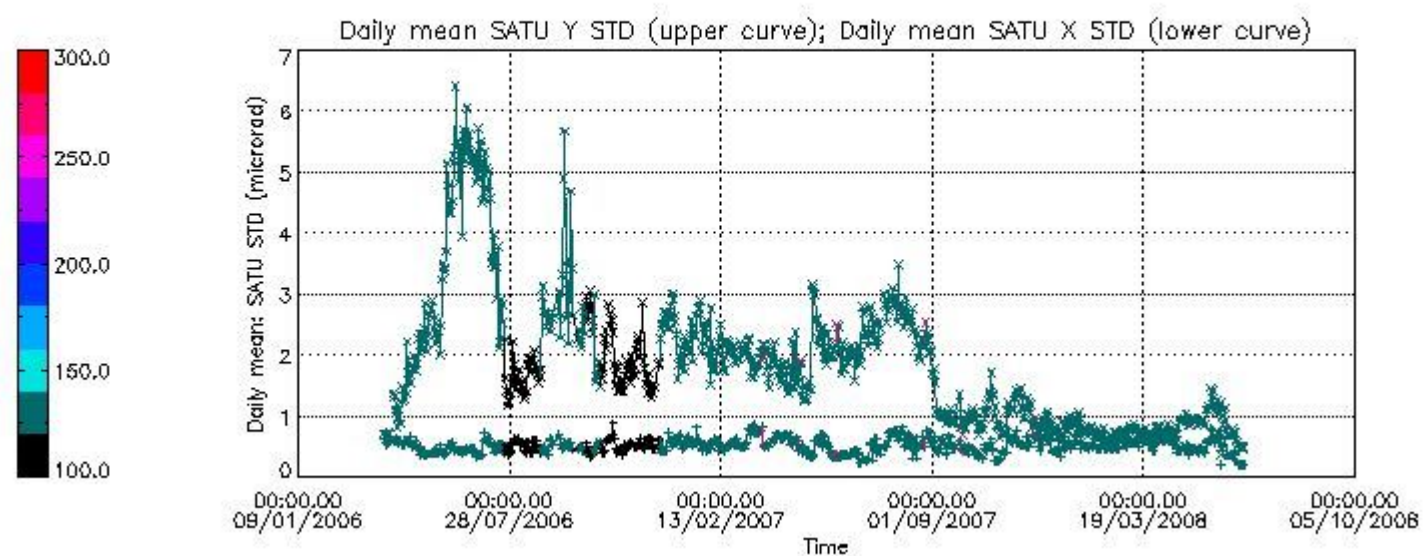
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

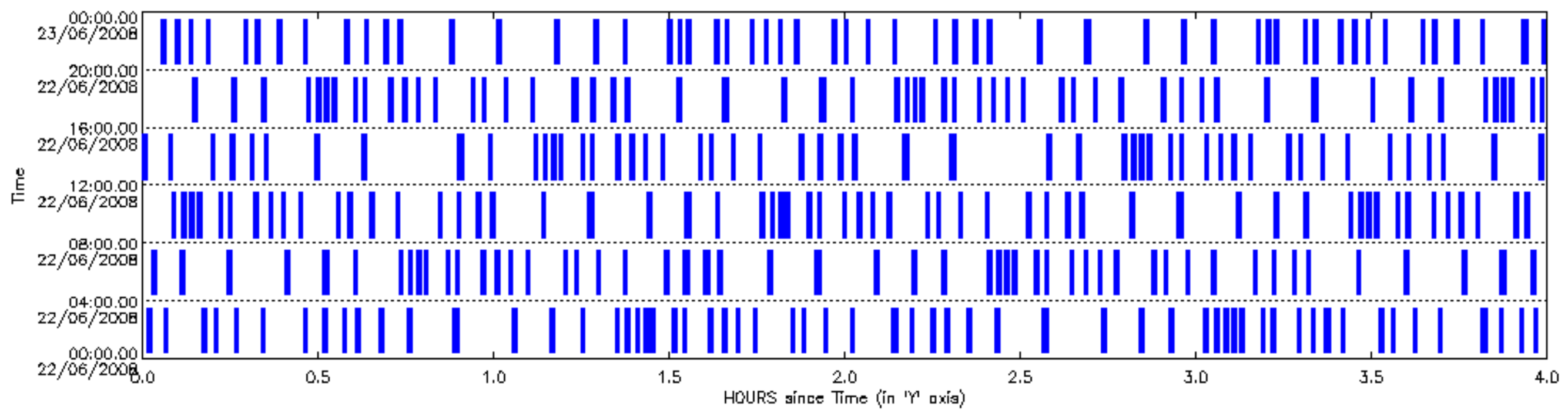
Lower curve: STD of SATU X axis

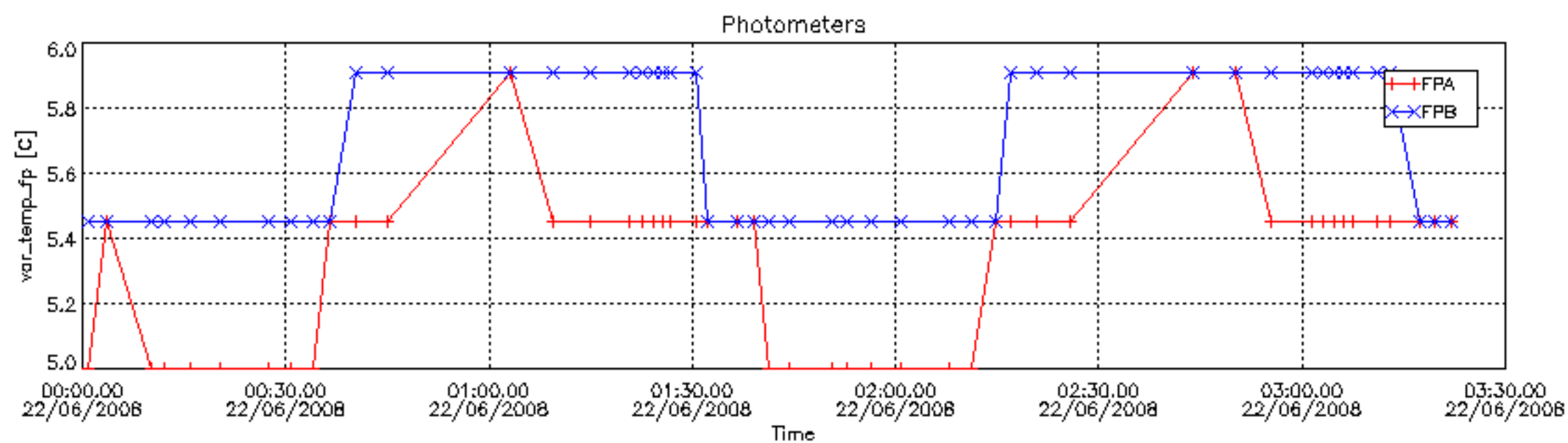
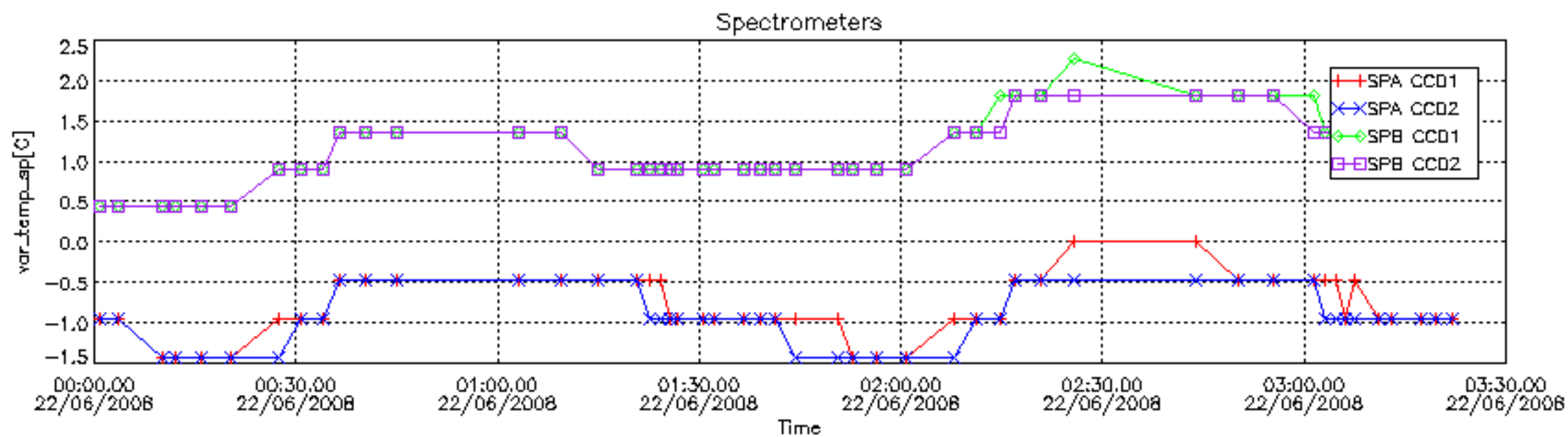


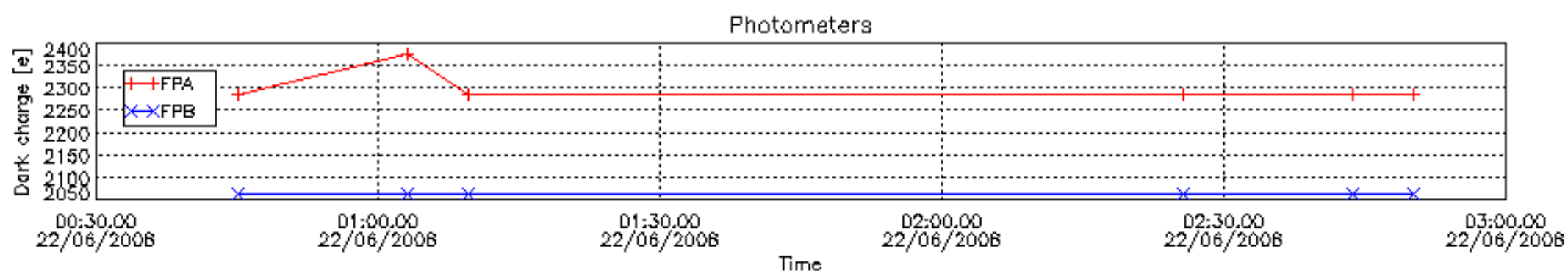
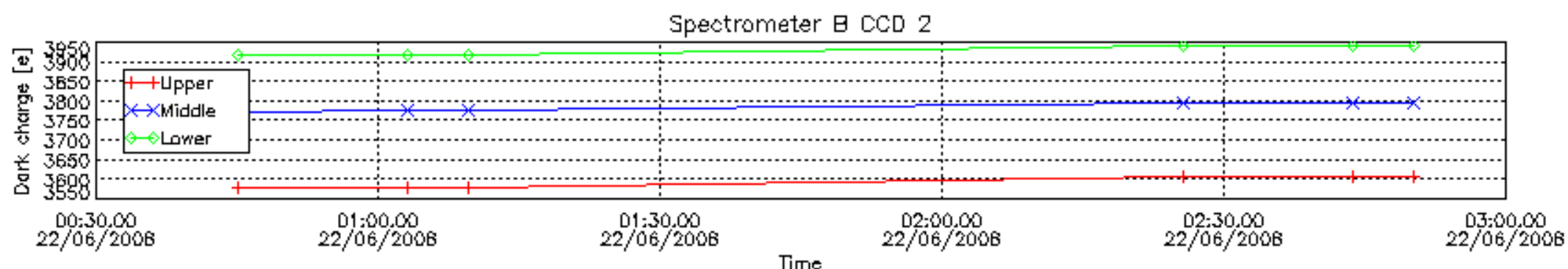
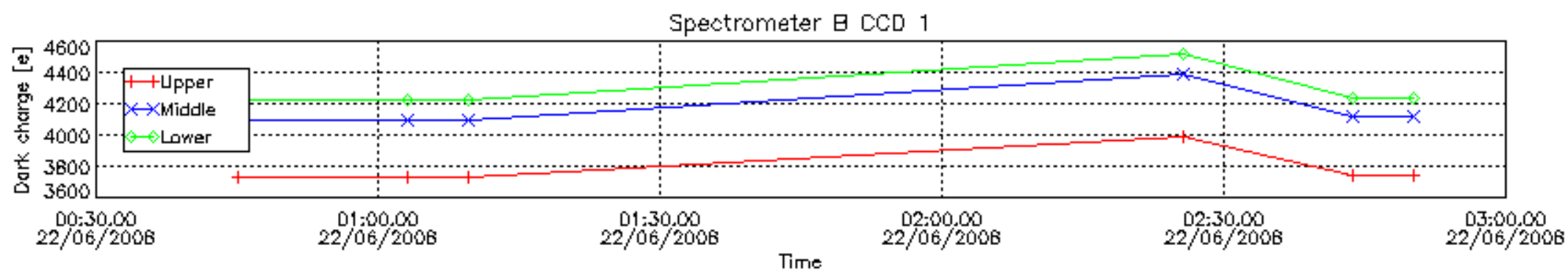
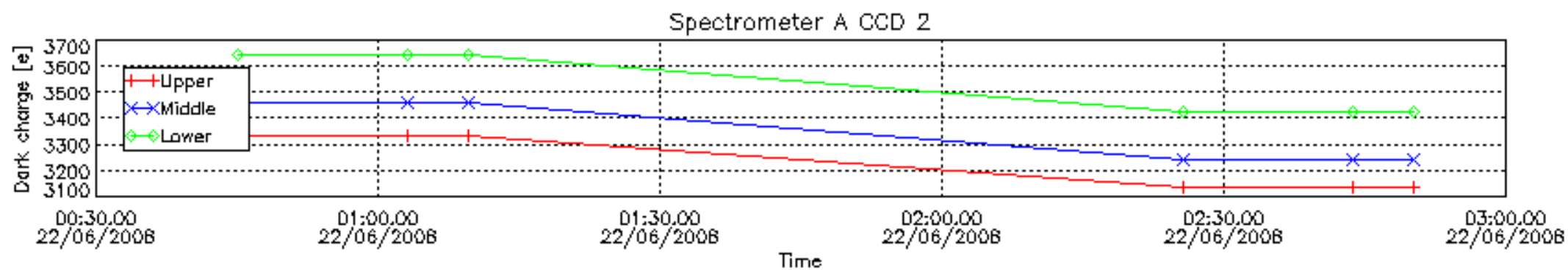
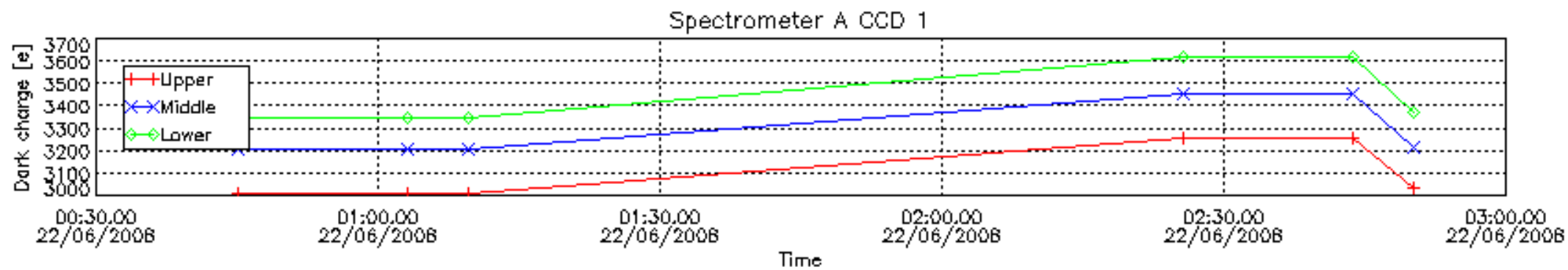
8. Auxiliary Data Files used for the production reported in section 2.4

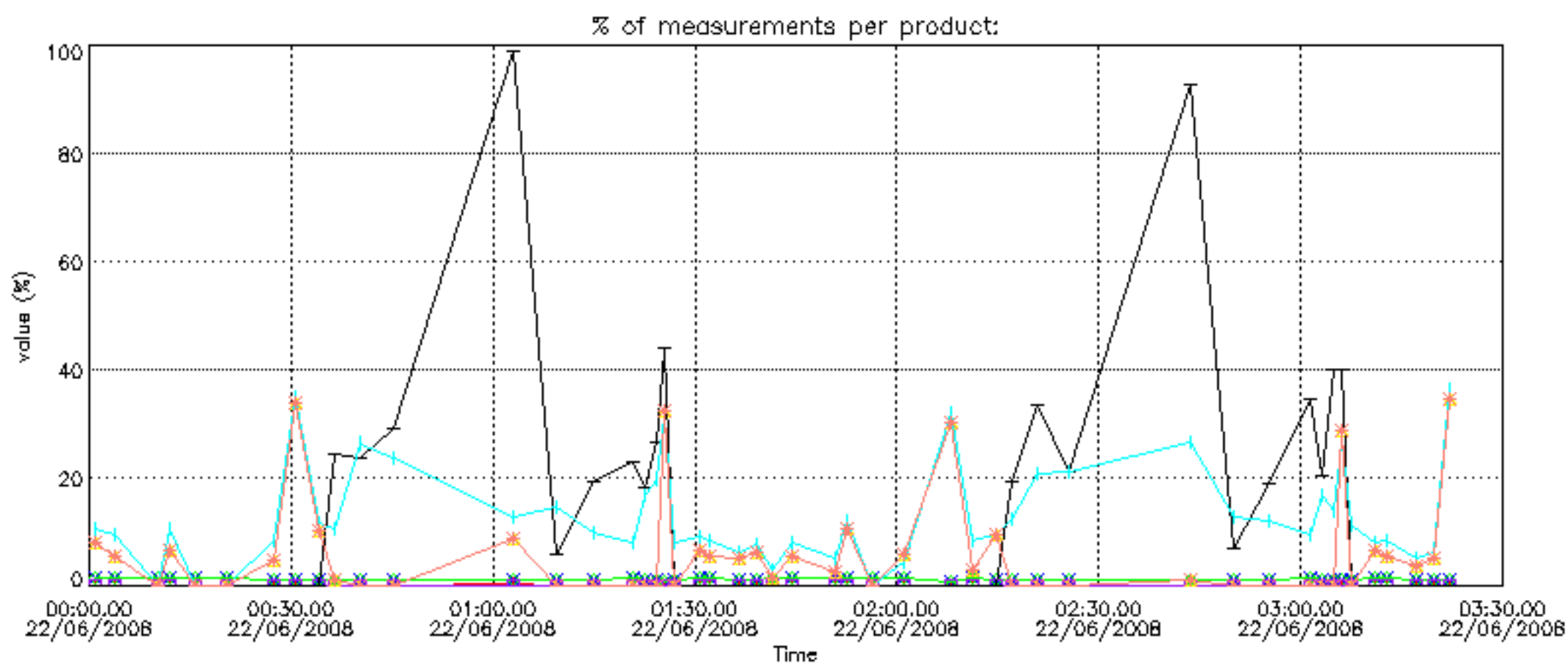
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	22-JUN-2008 00:00:46
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080620_084614_20080617_000000_20100101_000000	1	22-JUN-2008 00:00:46
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	22-JUN-2008 00:00:46
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	22-JUN-2008 00:00:46
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	22-JUN-2008 00:00:46
ECMWF_FILE	AUX_ECF_AXNECM20080621_072121_20080621_210000_20080622_090000	1	22-JUN-2008 00:00:46
OPTIONAL_ECMWF_FILE	MISSING	1	22-JUN-2008 00:00:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080621_212822_000057382069_00372_32991_5785.N1	1	22-JUN-2008 00:00:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080621_230919_000057382069_00373_32992_5786.N1	13	22-JUN-2008 01:03:08
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080622_005016_000041442069_00374_32993_5787.N1	31	22-JUN-2008 02:08:02

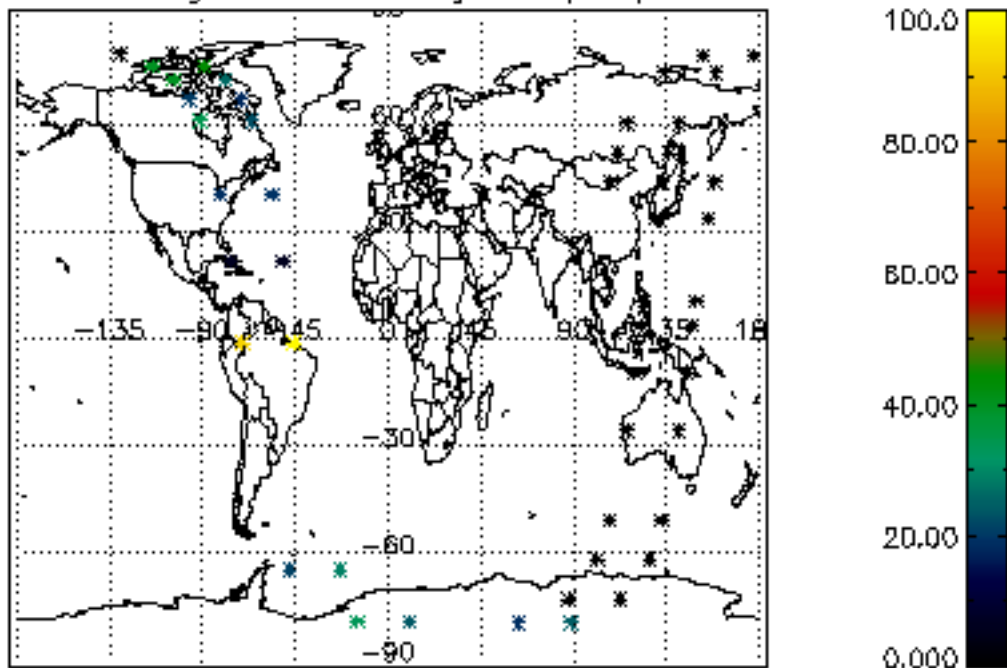




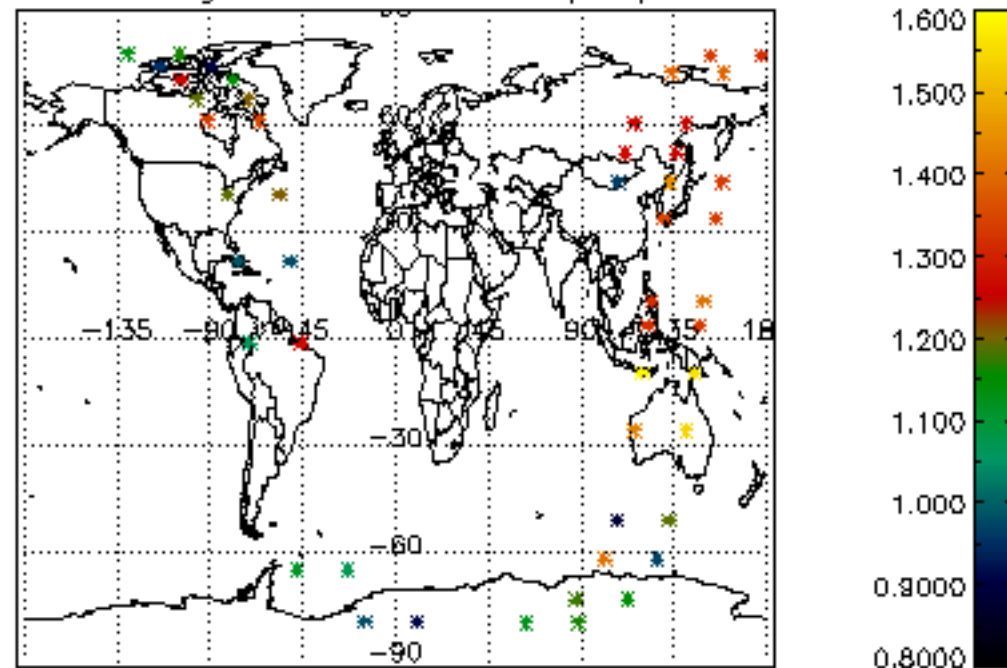




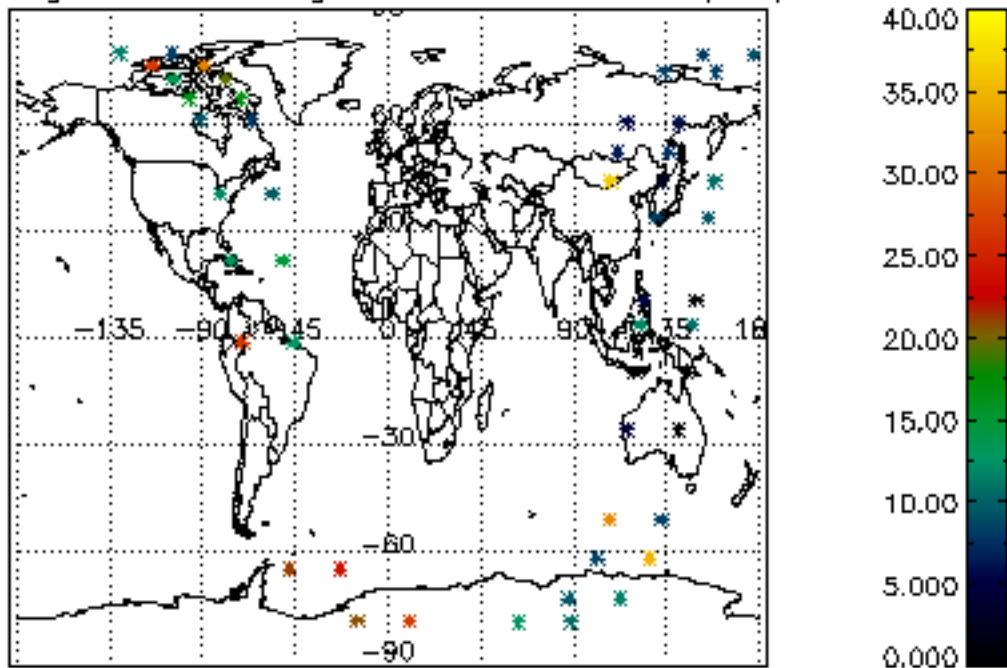
Percentage of cosmic ray hits per profile



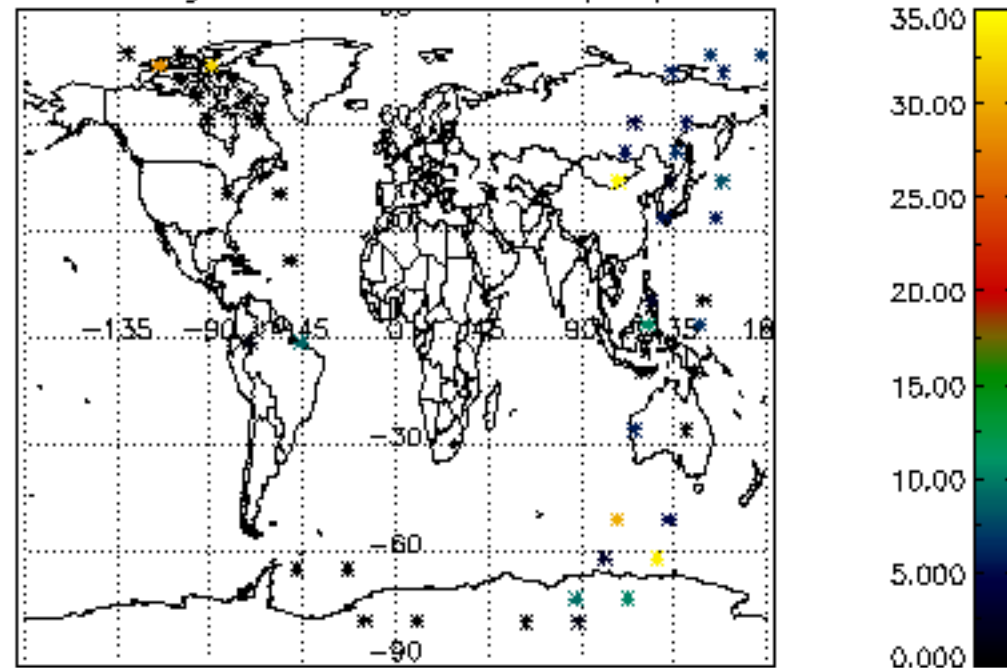
Percentage of datation errors per profile



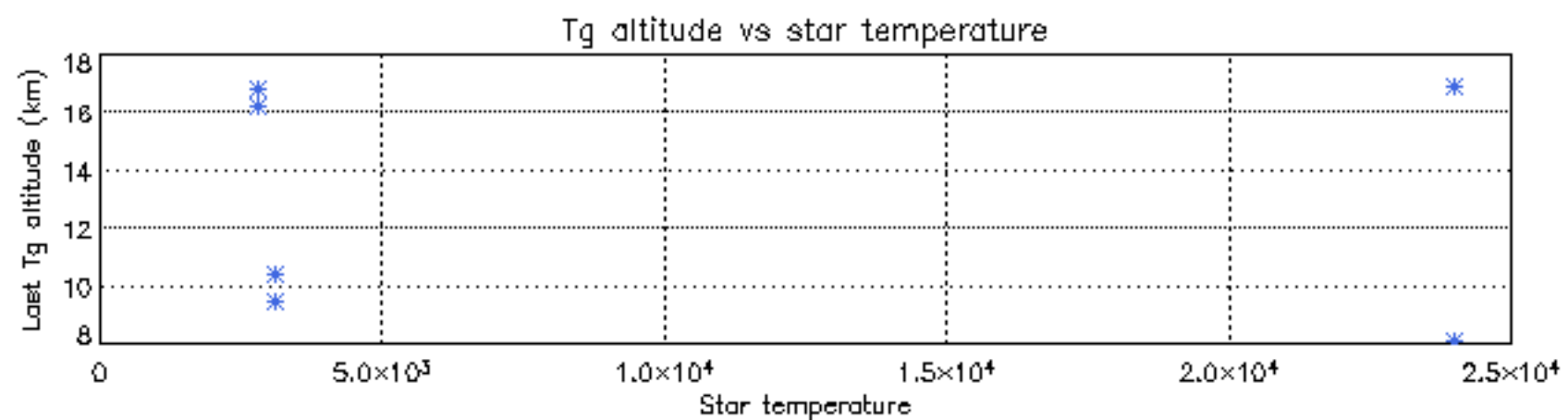
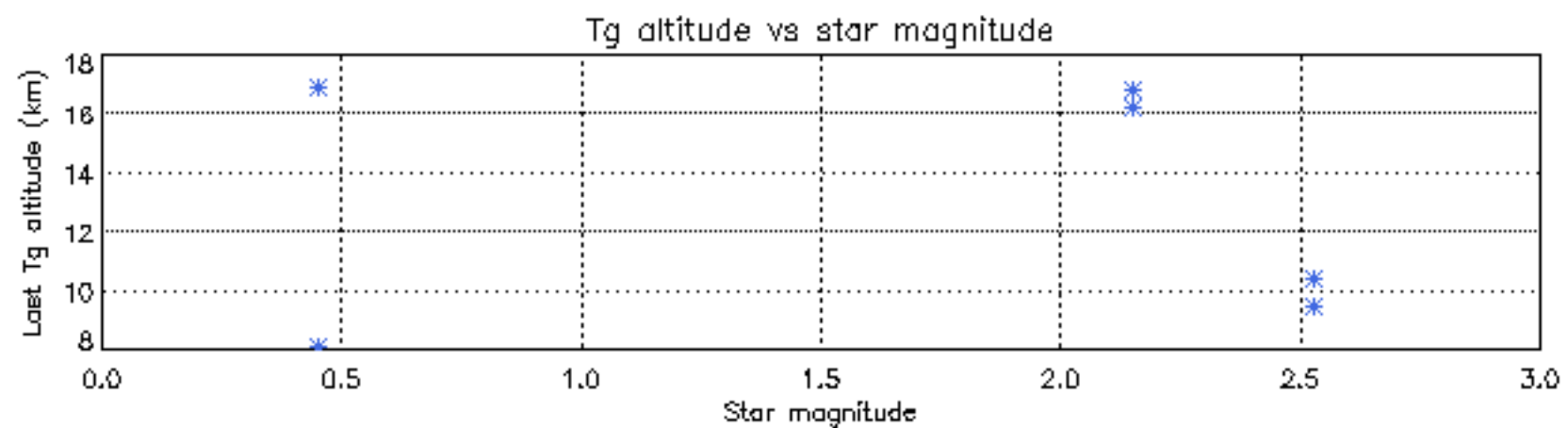
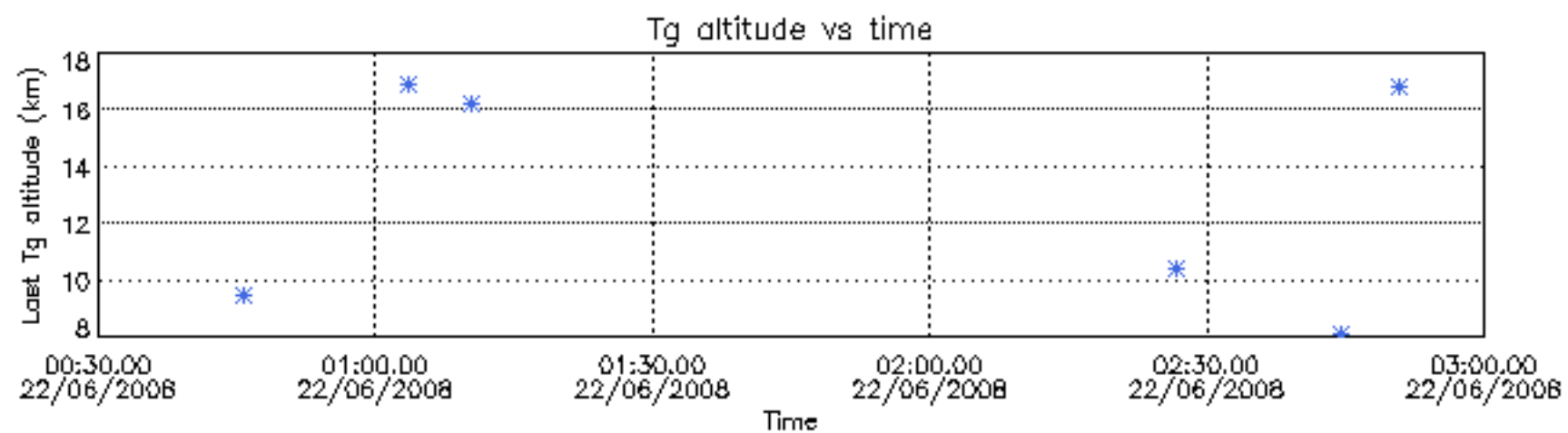
Percentage of star falling outside central band per profile



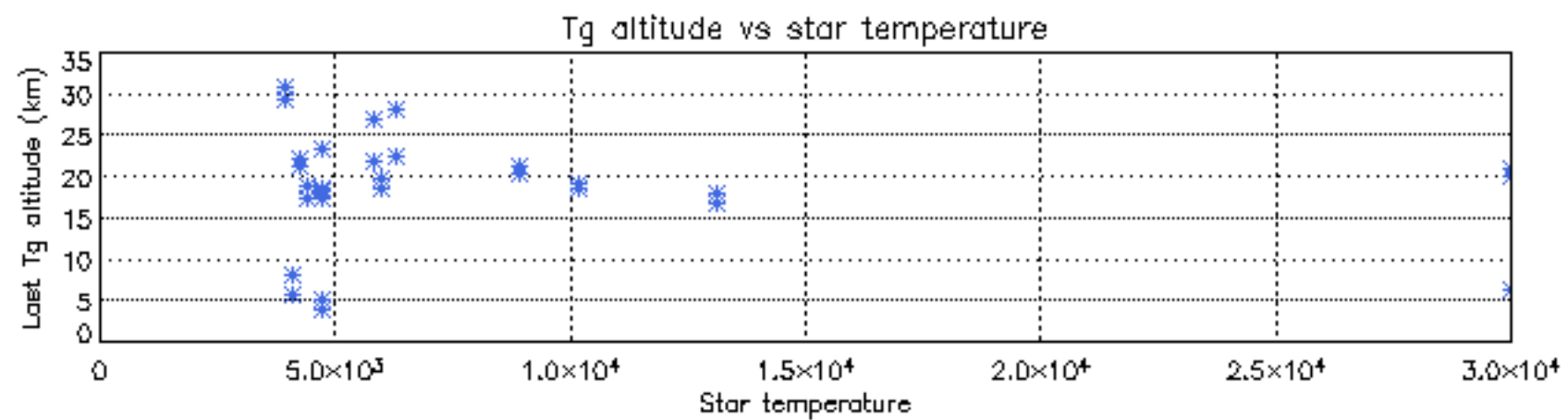
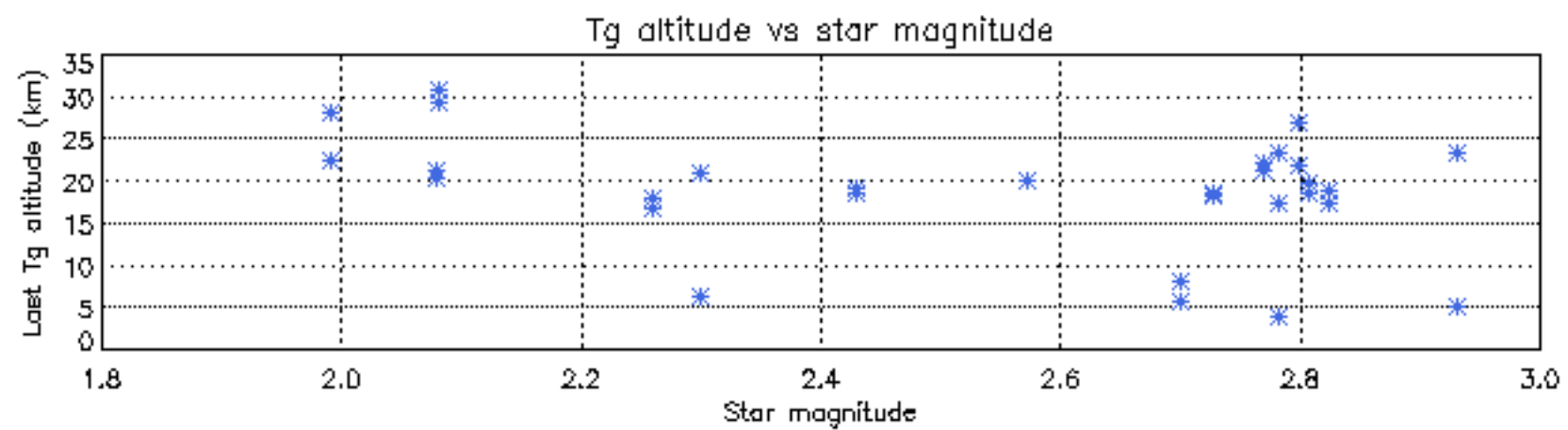
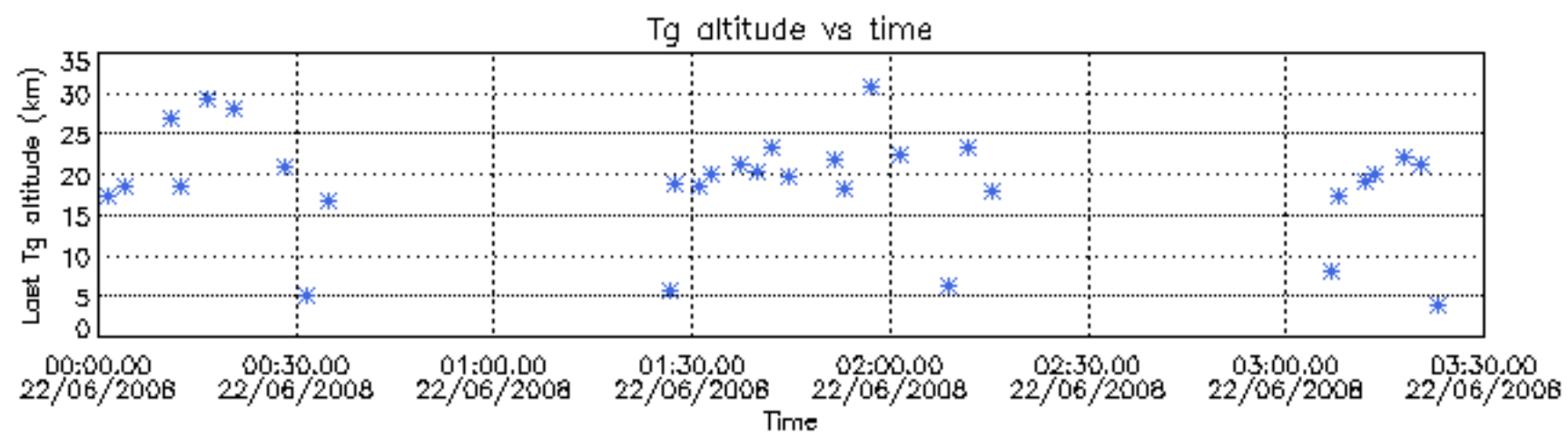
Percentage of saturation errors per profile



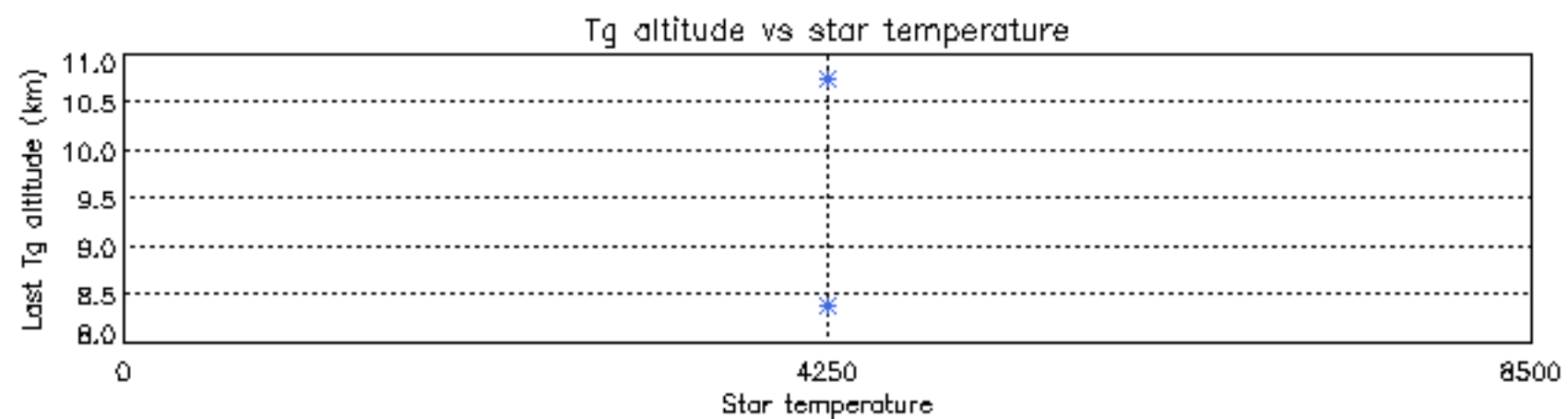
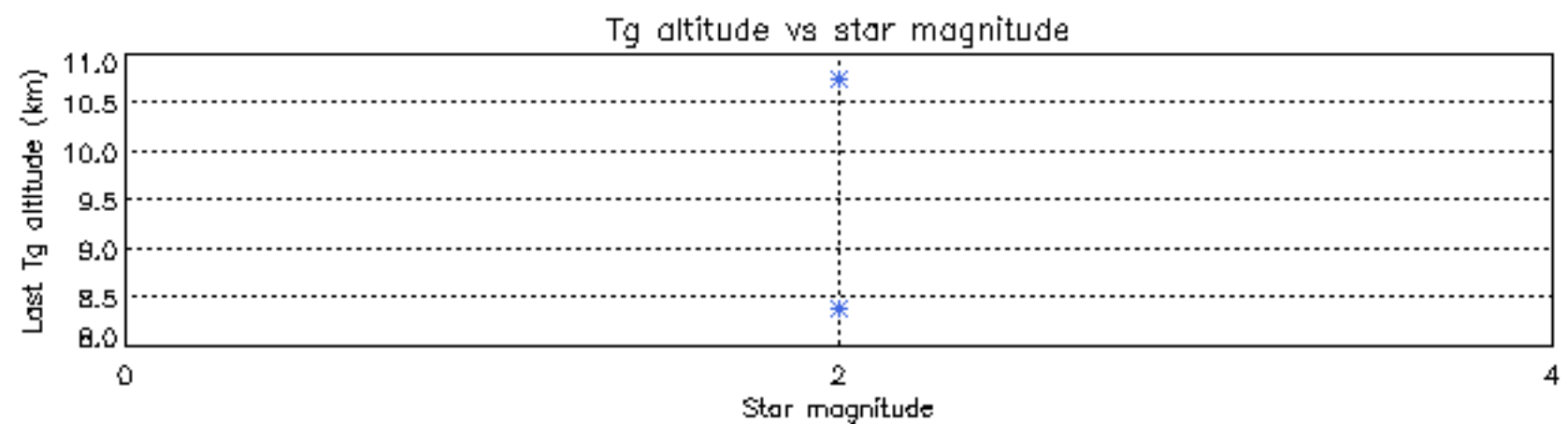
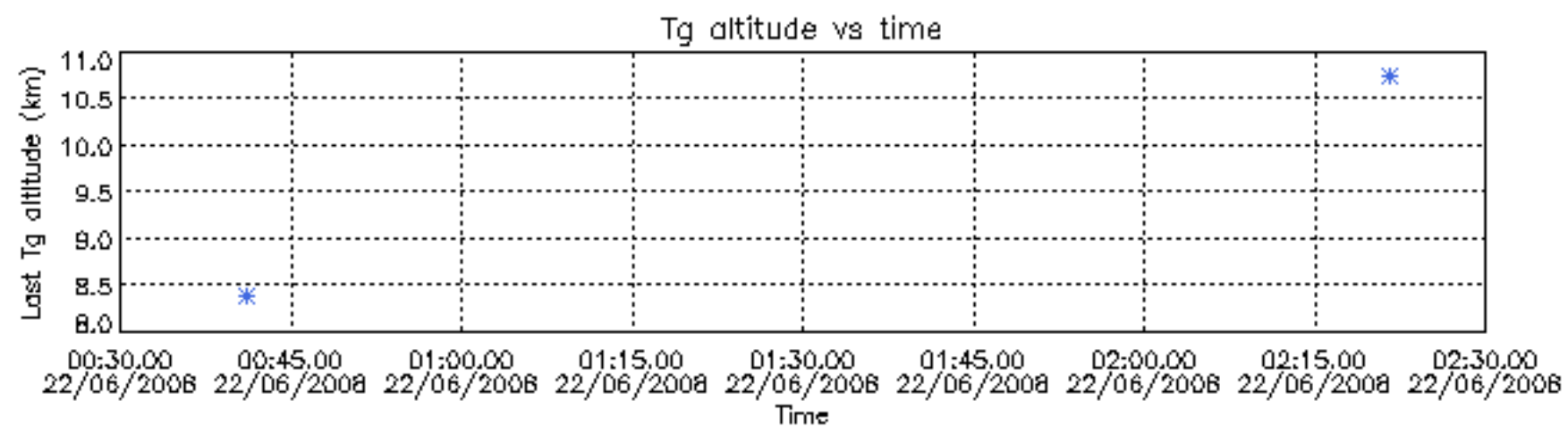
Tangent altitude at which the star is lost

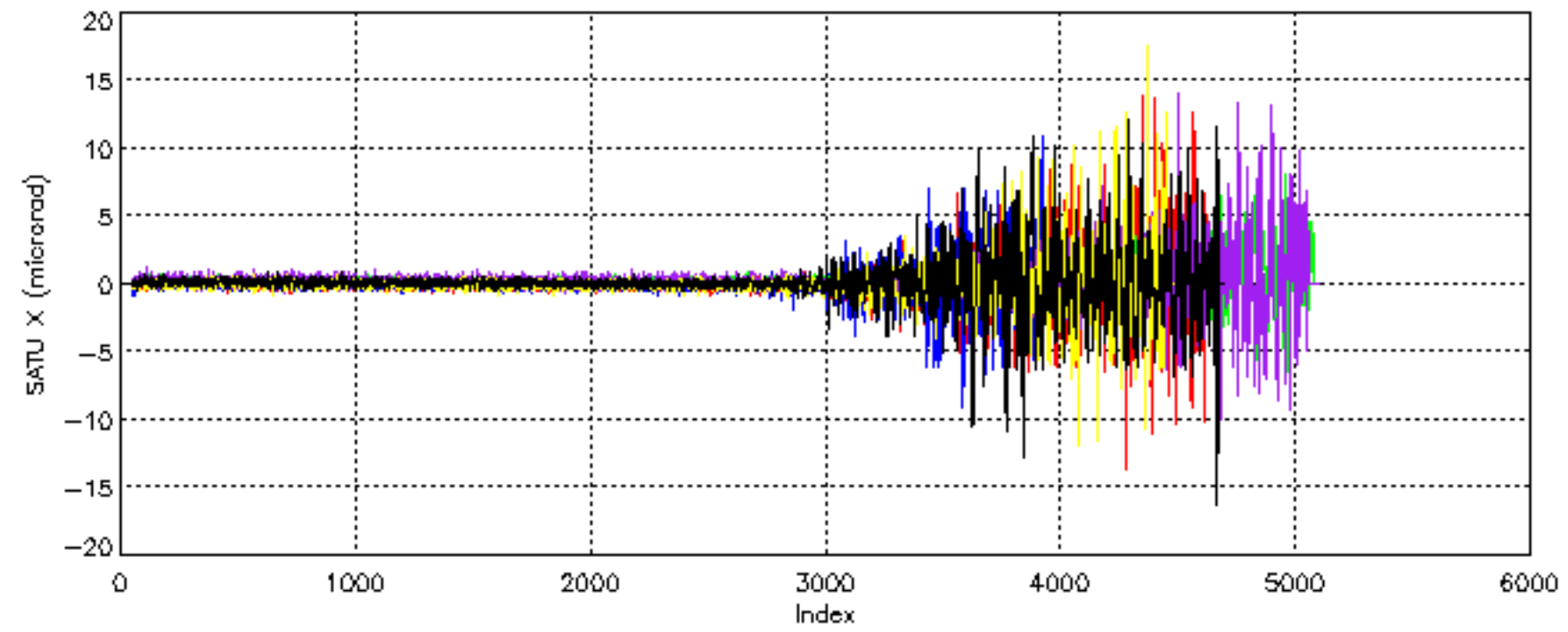


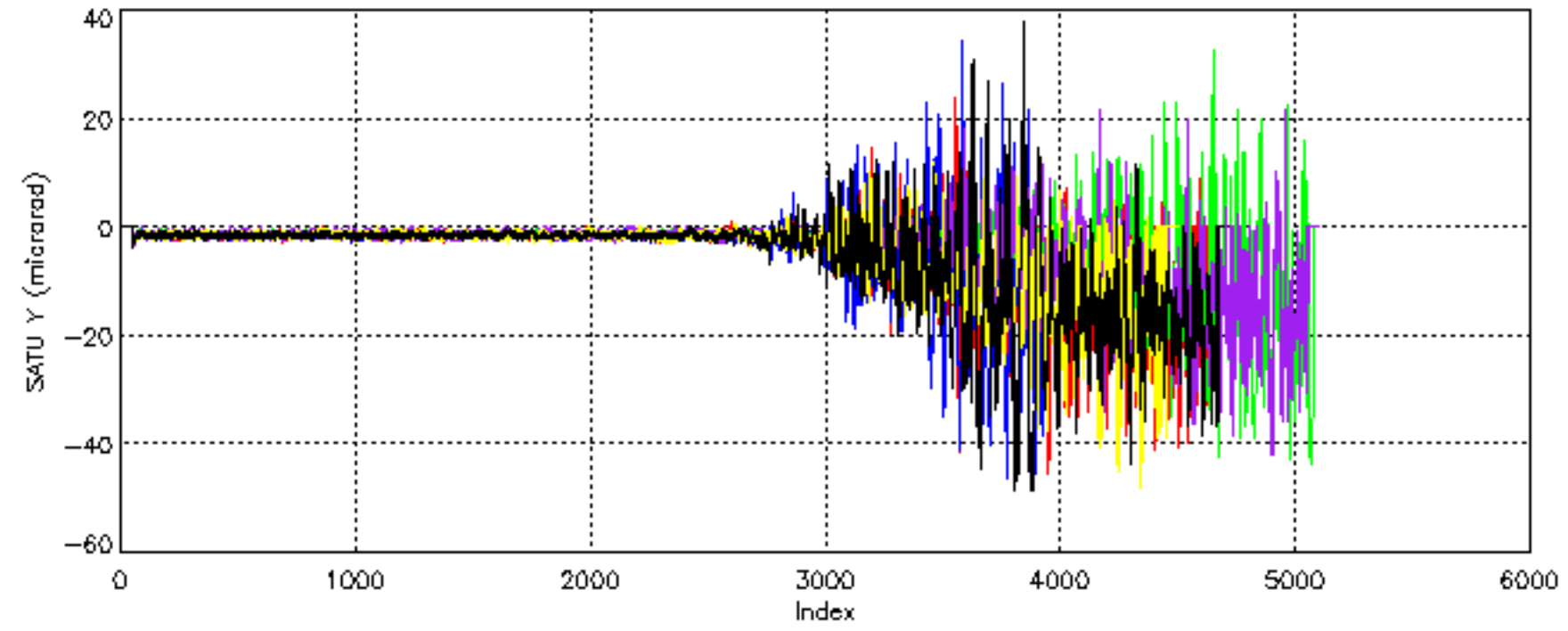
Tangent altitude at which the star is lost

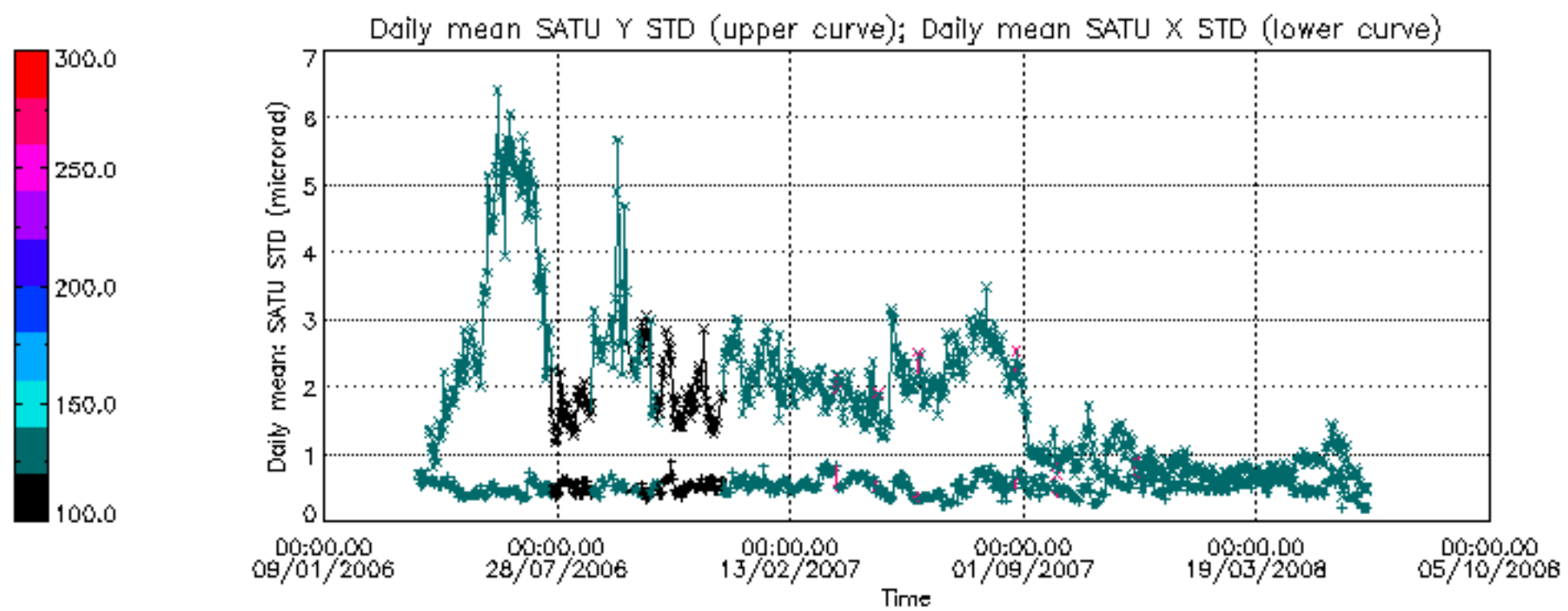


Tangent altitude at which the star is lost









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 2; -641.4; 01-JUN-2008 00:12:31; Dark ; 47.5; 52; 16Bet Cet ; 2.04; 4500;occ; 95; 0;32692
 3; -116.7; 01-JUN-2008 00:21:16; Dark ; 62.0; 18; 24Alp PsA ; 1.17; 9700;occ; 124; 0;32692
 4; 80.8; 01-JUN-2008 00:24:34; Dark ; 61.5; 63; Bet Gru ; 2.15; 2800;occ; 123; 0;32693
 5; 193.6; 01-JUN-2008 00:26:26; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;32693
 6; 491.2; 01-JUN-2008 00:31:24; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;32693
 7; 936.9; 01-JUN-2008 00:38:50; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;32693
 8; 1038.2; 01-JUN-2008 00:40:31; Dark ; 46.5; 40; The Sco ; 1.86; 7100;occ; 93; 0;32693
 9; 1146.2; 01-JUN-2008 00:42:19; Dark ; 48.0; 25; 35Lam Sco ; 1.62; 28000;occ; 96; 0;32693
 10; 1251.9; 01-JUN-2008 00:44:05; Dark ; 45.0; 75; 26Eps Sco ; 2.29; 4250;occ; 90; 0;32693
 11; 1373.9; 01-JUN-2008 00:46:07; Dark ; 47.5; 136; 23Tau Sco ; 2.82; 30000;occ; 95; 0;32693
 12; 1498.6; 01-JUN-2008 00:48:11; Bright; 37.0; 80; 7Del Sco ; 2.32; 30000;occ; 74; 0;32693
 13; 1591.4; 01-JUN-2008 00:49:44; Bright; 46.0; 86; 35Eta Oph ; 2.43; 10200;occ; 92; 0;32693
 14; 1702.9; 01-JUN-2008 00:51:36; Bright; 59.0; 98; 13Zet Oph ; 2.57; 30000;occ; 118; 0;32693
 15; 1834.0; 01-JUN-2008 00:53:47; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;32693
 16; 2014.6; 01-JUN-2008 00:56:47; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;32693
 17; 2368.7; 01-JUN-2008 01:02:41; Bright; 38.0; 67; 5Alp CrB ; 2.22; 11000;occ; 76; 0;32693
 18; 2526.4; 01-JUN-2008 01:05:19; Bright; 41.0; 133; 40Zet Her ; 2.81; 6000;occ; 82; 0;32693
 19; 3003.7; 01-JUN-2008 01:13:16; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;32693
 20; 3626.4; 01-JUN-2008 01:23:39; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;32693
 21; 3928.8; 01-JUN-2008 01:28:42; Bright; 56.0; 76; 27Gam Cas ; 2.30; 30000;occ; 112; 0;32693
 22; 4394.6; 01-JUN-2008 01:36:27; Bright; 43.5; 53; 43Bet And ; 2.05; 3300;occ; 87; 0;32693
 23; 4557.0; 01-JUN-2008 01:39:10; Dark ; 53.5; 58; 21Alp And ; 2.07; 11000;occ; 107; 0;32693
 24; 4855.2; 01-JUN-2008 01:44:08; Dark ; 52.5; 140; 88Gam Peg ; 2.83; 26000;occ; 105; 0;32693

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 4; 81.7; 01-JUN-2008 02:05:10; Dark ; 57.5; 63; Bet Gru ; 2.15; 2800;occ; 115; 0;32694
 5; 194.6; 01-JUN-2008 02:07:03; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;32694
 6; 492.0; 01-JUN-2008 02:12:01; Dark ; 45.0; 45; Alp Pav ; 1.94; 26000;occ; 90; 0;32694
 7; 937.3; 01-JUN-2008 02:19:26; Dark ; 40.5; 147; Alp Ara ; 2.88; 26000;occ; 81; 0;32694
 8; 1038.7; 01-JUN-2008 02:21:07; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;32694
 9; 1146.6; 01-JUN-2008 02:22:55; Dark ; 42.5; 25; 35Lam Sco ; 1.62; 28000;occ; 85; 0;32694
 10; 1252.2; 01-JUN-2008 02:24:41; Dark ; 46.5; 75; 26Eps Sco ; 2.29; 4250;occ; 93; 0;32694
 11; 1374.2; 01-JUN-2008 02:26:43; Dark ; 40.0; 136; 23Tau Sco ; 2.82; 30000;occ; 80; 0;32694
 12; 1498.9; 01-JUN-2008 02:28:48; Bright; 39.0; 80; 7Del Sco ; 2.32; 30000;occ; 78; 0;32694
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 17; 2368.7; 01-JUN-2008 02:43:17; Bright; 37.0; 67; 5Alp CrB ; 2.22; 11000;occ; 74; 0;32694
 18; 2526.1; 01-JUN-2008 02:45:55; Bright; 43.0; 133; 40Zet Her ; 2.81; 6000;occ; 86; 0;32694
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 5; -1180.4; 01-JUN-2008 03:24:44; Dark ; 51.5; 140; 88Gam Peg ; 2.83; 26000;occ; 103; 0;32694
 6; -749.4; 01-JUN-2008 03:31:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32694
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 12; 937.9; 01-JUN-2008 04:00:02; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;32695
 13; 1039.3; 01-JUN-2008 04:01:44; Dark ; 47.5; 40; The Sco ; 1.86; 7100;occ; 95; 0;32695
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 15; 1252.8; 01-JUN-2008 04:05:17; Dark ; 44.5; 75; 26Eps Sco ; 2.29; 4250;occ; 89; 0;32695
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 17; 1499.2; 01-JUN-2008 04:09:24; Bright; 39.0; 80; 7Del Sco ; 2.32; 30000;occ; 78; 0;32695
 18; 1591.8; 01-JUN-2008 04:10:56; Bright; 45.0; 86; 35Eta Oph ; 2.43; 10200;occ; 90; 0;32695
 19; 1703.3; 01-JUN-2008 04:12:48; Bright; 40.5; 98; 13Zet Oph ; 2.57; 30000;occ; 81; 0;32695
 20; 1834.2; 01-JUN-2008 04:14:59; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;32695
 21; 2014.9; 01-JUN-2008 04:17:59; Bright; 36.0; 102; 24Alp Ser ; 2.60; 4250;occ; 72; 0;32695


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22; 2368.7; 01-JUN-2008 04:23:53; Bright; 35.5; 67; 5Alp CrB ; 2.22; 11000;occ; 71; 0;32695
23; 2525.7; 01-JUN-2008 04:26:30; Bright; 41.5; 133; 40Zet Her ; 2.81; 6000;occ; 83; 0;32695
24; 3003.4; 01-JUN-2008 04:34:28; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;32695
25; 3625.3; 01-JUN-2008 04:44:50; Bright; 34.0; 89; 5Alp Cep ; 2.45; 8000;occ; 68; 0;32695
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 9; 83.5; 01-JUN-2008 05:26:24; Dark ; 61.0; 63; Bet Gru ; 2.15; 2800;occ; 122; 0;32696
10; 196.5; 01-JUN-2008 05:28:17; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;32696
11; 493.3; 01-JUN-2008 05:33:14; Dark ; 46.0; 45; Alp Pav ; 1.94; 26000;occ; 92; 0;32696
12; 938.4; 01-JUN-2008 05:40:39; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;32696
13; 1039.7; 01-JUN-2008 05:42:20; Dark ; 42.5; 40; The Sco ; 1.86; 7100;occ; 85; 0;32696
14; 1147.4; 01-JUN-2008 05:44:08; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;32696
15; 1253.1; 01-JUN-2008 05:45:54; Dark ; 46.0; 75; 26Eps Sco ; 2.29; 4250;occ; 92; 0;32696
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23; 2525.2; 01-JUN-2008 06:07:06; Bright; 43.0; 133; 40Zet Her ; 2.81; 6000;occ; 86; 0;32696
24; 3002.9; 01-JUN-2008 06:15:04; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;32696
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 9; 2014.7; 01-JUN-2008 21:03:59; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;32705
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12; 3000.4; 01-JUN-2008 21:20:24; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;32705
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 9; 4567.3; 04-JUN-2008 10:08:05; Dark ; 48.0; 58; 21Alp And ; 2.07; 11000;occ; 96; 0;32741
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 12; 5426.8; 04-JUN-2008 10:22:24; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;32741
 13; 5824.7; 04-JUN-2008 10:29:02; Dark ; 40.0; 84; Alp Phe ; 2.40; 4500;occ; 80; 0;32741
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 17; 6560.3; 04-JUN-2008 10:41:18; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;32741
 18; 6992.5; 04-JUN-2008 10:48:30; Dark ; 39.5; 147; Alp Ara ; 2.88; 26000;occ; 79; 0;32741
 19; 7094.9; 04-JUN-2008 10:50:13; Dark ; 48.5; 40; The Sco ; 1.86; 7100;occ; 97; 0;32741
 20; 7201.6; 04-JUN-2008 10:51:59; Dark ; 45.0; 25; 35Lam Sco ; 1.62; 28000;occ; 90; 0;32741
 21; 7302.2; 04-JUN-2008 10:53:40; Dark ; 42.0; 75; 26Eps Sco ; 2.29; 4250;occ; 84; 0;32741
 22; 7421.3; 04-JUN-2008 10:55:39; Dark ; 45.5; 136; 23Tau Sco ; 2.82; 30000;occ; 91; 0;32741
 23; 7632.3; 04-JUN-2008 10:59:10; Bright; 43.0; 86; 35Eta Oph ; 2.43; 10200;occ; 86; 0;32741

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 3; 2014.7; 04-JUN-2008 11:06:08; Bright; 36.0; 102; 24Alp Ser ; 2.60; 4250;occ; 72; 0;32742
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 11; 4643.1; 04-JUN-2008 11:49:57; Dark ; 42.0; 105; 6Bet Ari ; 2.64; 8900;occ; 84; 0;32742
 12; 4882.2; 04-JUN-2008 11:53:56; Dark ; 53.0; 140; 88Gam Peg ; 2.83; 26000;occ; 106; 0;32742
 13; 5332.0; 04-JUN-2008 12:01:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32742
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 17; 6160.4; 04-JUN-2008 12:15:14; Dark ; 49.5; 63; Bet Gru ; 2.15; 2800;occ; 99; 0;32742
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 19; 6561.0; 04-JUN-2008 12:21:55; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;32742
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 22; 7201.9; 04-JUN-2008 12:32:35; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;32742
 23; 7302.5; 04-JUN-2008 12:34:16; Dark ; 44.5; 75; 26Eps Sco ; 2.29; 4250;occ; 89; 0;32742
 24; 7421.7; 04-JUN-2008 12:36:15; Dark ; 42.0; 136; 23Tau Sco ; 2.82; 30000;occ; 84; 0;32742
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 2; 1834.4; 04-JUN-2008 12:43:44; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;32743
 3; 2014.7; 04-JUN-2008 12:46:44; Bright; 53.0; 102; 24Alp Ser ; 2.60; 4250;occ; 106; 0;32743
 4; 2305.2; 04-JUN-2008 12:51:35; Bright; 59.0; 127; 27Bet Her ; 2.78; 4700;occ; 118; 0;32743
 5; 2504.3; 04-JUN-2008 12:54:54; Bright; 41.5; 133; 40Zet Her ; 2.81; 6000;occ; 83; 0;32743
 6; 2944.2; 04-JUN-2008 13:02:14; Bright; 43.5; 130; 23Bet Dra ; 2.80; 5800;occ; 87; 0;32743
 7; 3596.2; 04-JUN-2008 13:13:06; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;32743
 8; 3923.5; 04-JUN-2008 13:18:33; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;32743
 9; 4399.4; 04-JUN-2008 13:26:29; Bright; 46.0; 53; 43Bet And ; 2.05; 3300;occ; 92; 0;32743
 10; 4567.7; 04-JUN-2008 13:29:17; Dark ; 40.0; 58; 21Alp And ; 2.07; 11000;occ; 80; 0;32743
 11; 4643.4; 04-JUN-2008 13:30:33; Dark ; 41.5; 105; 6Bet Ari ; 2.64; 8900;occ; 83; 0;32743
 12; 4882.7; 04-JUN-2008 13:34:32; Dark ; 55.0; 140; 88Gam Peg ; 2.83; 26000;occ; 110; 0;32743
 13; 5333.0; 04-JUN-2008 13:42:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32743
 14; 5428.2; 04-JUN-2008 13:43:38; Dark ; 47.0; 52; 16Bet Cet ; 2.04; 4500;occ; 94; 0;32743
 15; 5825.9; 04-JUN-2008 13:50:15; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;32743
 16; 5986.4; 04-JUN-2008 13:52:56; Dark ; 56.0; 18; 24Alp PsA ; 1.17; 9700;occ; 112; 0;32743
 17; 6161.5; 04-JUN-2008 13:55:51; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;32743
 18; 6278.1; 04-JUN-2008 13:57:48; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;32743
 19; 6561.7; 04-JUN-2008 14:02:31; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;32743
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 21; 7095.8; 04-JUN-2008 14:11:25; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;32743
 22; 7202.4; 04-JUN-2008 14:13:12; Dark ; 46.5; 25; 35Lam Sco ; 1.62; 28000;occ; 93; 0;32743
 23; 7302.9; 04-JUN-2008 14:14:52; Dark ; 44.5; 75; 26Eps Sco ; 2.29; 4250;occ; 89; 0;32743
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 3; 1834.4; 04-JUN-2008 14:24:20; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;32744
 4; 2014.8; 04-JUN-2008 14:27:20; Bright; 53.0; 102; 24Alp Ser ; 2.60; 4250;occ; 106; 0;32744
 5; 2305.0; 04-JUN-2008 14:32:10; Bright; 40.5; 127; 27Bet Her ; 2.78; 4700;occ; 81; 0;32744
 6; 2504.0; 04-JUN-2008 14:35:29; Bright; 42.5; 133; 40Zet Her ; 2.81; 6000;occ; 85; 0;32744
 7; 2943.6; 04-JUN-2008 14:42:49; Bright; 44.0; 130; 23Bet Dra ; 2.80; 5800;occ; 88; 0;32744
 8; 3595.4; 04-JUN-2008 14:53:41; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;32744
 9; 3923.3; 04-JUN-2008 14:59:09; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;32744
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 12; 4643.8; 04-JUN-2008 15:11:09; Dark ; 39.5; 105; 6Bet Ari ; 2.64; 8900;occ; 79; 0;32744
 13; 4883.5; 04-JUN-2008 15:15:09; Dark ; 46.0; 140; 88Gam Peg ; 2.83; 26000;occ; 92; 0;32744
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 16; 5826.6; 04-JUN-2008 15:30:52; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;32744
 17; 5987.8; 04-JUN-2008 15:33:33; Dark ; 57.0; 18; 24Alp PsA ; 1.17; 9700;occ; 114; 0;32744
 18; 6162.4; 04-JUN-2008 15:36:28; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;32744
 19; 6279.1; 04-JUN-2008 15:38:24; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;32744
 20; 6562.5; 04-JUN-2008 15:43:08; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;32744
 21; 6993.6; 04-JUN-2008 15:50:19; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;32744
 22; 7096.3; 04-JUN-2008 15:52:02; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;32744
 23; 7202.8; 04-JUN-2008 15:53:48; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;32744
 24; 7303.1; 04-JUN-2008 15:55:28; Dark ; 40.5; 75; 26Eps Sco ; 2.29; 4250;occ; 81; 0;32744

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 3; 1596.7; 04-JUN-2008 16:00:58; Bright; 44.0; 86; 35Eta Oph ; 2.43; 10200;occ; 88; 0;32745
 4; 1705.3; 04-JUN-2008 16:02:47; Bright; 40.0; 98; 13Zet Oph ; 2.57; 30000;occ; 80; 0;32745
 5; 1834.5; 04-JUN-2008 16:04:56; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;32745
 6; 2014.7; 04-JUN-2008 16:07:56; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;32745
 7; 2304.7; 04-JUN-2008 16:12:46; Bright; 40.0; 127; 27Bet Her ; 2.78; 4700;occ; 80; 0;32745
 8; 2503.5; 04-JUN-2008 16:16:05; Bright; 41.5; 133; 40Zet Her ; 2.81; 6000;occ; 83; 0;32745
 9; 2942.9; 04-JUN-2008 16:23:24; Bright; 45.0; 130; 23Bet Dra ; 2.80; 5800;occ; 90; 0;32745
 10; 3594.8; 04-JUN-2008 16:34:16; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;32745
 11; 3923.2; 04-JUN-2008 16:39:44; Bright; 56.0; 76; 27Gam Cas ; 2.30; 30000;occ; 112; 0;32745
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 13; 4568.2; 04-JUN-2008 16:50:29; Dark ; 32.0; 58; 21Alp And ; 2.07; 11000;occ; 64; 0;32745
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 16; 5335.2; 04-JUN-2008 17:03:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32745
 17; 5429.6; 04-JUN-2008 17:04:51; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;32745
 18; 5827.2; 04-JUN-2008 17:11:29; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;32745
 19; 5989.2; 04-JUN-2008 17:14:10; Dark ; 68.0; 18; 24Alp PsA ; 1.17; 9700;occ; 136; 0;32745
 20; 6163.3; 04-JUN-2008 17:17:05; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;32745
 21; 6280.0; 04-JUN-2008 17:19:01; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;32745
 22; 6563.1; 04-JUN-2008 17:23:44; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;32745
 23; 6994.1; 04-JUN-2008 17:30:55; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;32745
 24; 7096.8; 04-JUN-2008 17:32:38; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;32745
 25; 7203.2; 04-JUN-2008 17:34:25; Dark ; 17.0; 25; 35Lam Sco ; 1.62; 28000;occ; 34; 0;32745

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 3; 1267.4; 04-JUN-2008 17:36:05; Dark ; 42.0; 75; 26Eps Sco ; 2.29; 4250;occ; 84; 0;32746
 4; 1386.2; 04-JUN-2008 17:38:04; Dark ; 43.5; 136; 23Tau Sco ; 2.82; 30000;occ; 87; 0;32746
 5; 1596.9; 04-JUN-2008 17:41:34; Bright; 42.5; 86; 35Eta Oph ; 2.43; 10200;occ; 85; 0;32746
 6; 1705.6; 04-JUN-2008 17:43:23; Bright; 39.5; 98; 13Zet Oph ; 2.57; 30000;occ; 79; 0;32746
 7; 1834.4; 04-JUN-2008 17:45:32; Bright; 38.0; 120; 1Del Oph ; 2.73; 3200;occ; 76; 0;32746
 8; 2014.7; 04-JUN-2008 17:48:32; Bright; 36.0; 102; 24Alp Ser ; 2.60; 4250;occ; 72; 0;32746
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 17; 5336.2; 04-JUN-2008 18:43:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32746
 18; 5430.3; 04-JUN-2008 18:45:28; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;32746
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 22; 6281.0; 04-JUN-2008 18:59:38; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;32746
 23; 6563.7; 04-JUN-2008 19:04:21; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;32746
 24; 6994.4; 04-JUN-2008 19:11:32; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;32746
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 13; 3922.9; 04-JUN-2008 20:00:56; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;32747
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13; 1706.5; 06-JUN-2008 01:34:46; Bright; 44.5; 98; 13Zet Oph ; 2.57; 30000;occ; 89; 0;32765
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16; 2495.8; 06-JUN-2008 01:47:56; Bright; 40.5; 133; 40Zet Her ; 2.81; 6000;occ; 81; 0;32765
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9; 146.2; 06-JUN-2008 04:29:58; Dark ; 58.5; 63; Bet Gru ; 2.15; 2800;occ; 117; 0;32767
10; 264.3; 06-JUN-2008 04:31:56; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;32767
11; 541.0; 06-JUN-2008 04:36:33; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;32767
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13; 1174.9; 06-JUN-2008 04:47:07; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;32767
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17; 1706.8; 06-JUN-2008 04:55:59; Bright; 39.0; 98; 13Zet Oph ; 2.57; 30000;occ; 78; 0;32767
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19; 2298.8; 06-JUN-2008 05:05:51; Bright; 41.0; 127; 27Bet Her ; 2.78; 4700;occ; 82; 0;32767
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 12; 1069.5; 06-JUN-2008 06:25:57; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;32768
 13; 1175.3; 06-JUN-2008 06:27:43; Dark ; 44.0; 25; 35Lam Sco ; 1.62; 28000;occ; 88; 0;32768
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 15; 1426.9; 06-JUN-2008 06:31:55; Bright; 46.5; 16; 21Alp Sco ; 1.02; 3000;occ; 93; 0;32768
 16; 1599.0; 06-JUN-2008 06:34:47; Bright; 43.0; 86; 35Eta Oph ; 2.43; 10200;occ; 86; 0;32768
 17; 1706.8; 06-JUN-2008 06:36:35; Bright; 39.0; 98; 13Zet Oph ; 2.57; 30000;occ; 78; 0;32768
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 5; 1708.1; 07-JUN-2008 21:10:23; Bright; 38.0; 98; 13Zet Oph ; 2.57; 30000;occ; 76; 0;32791
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 9; 2486.6; 07-JUN-2008 21:23:21; Bright; 38.5; 133; 40Zet Her ; 2.81; 6000;occ; 77; 0;32791
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 13; 2042.4; 07-JUN-2008 22:56:33; Bright; 41.0; 126; 60Bet Oph ; 2.77; 4250;occ; 82; 0;32792
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16; 5372.3; 09-JUN-2008 19:27:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32818
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19; 6095.2; 09-JUN-2008 19:39:40; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;32818
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22; 6611.0; 09-JUN-2008 19:48:16; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;32818

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11; 1604.7; 10-JUN-2008 01:07:13; Bright; 41.0; 86; 35Eta Oph ; 2.43; 10200;occ; 82; 0;32822
12; 1710.5; 10-JUN-2008 01:08:59; Bright; 49.5; 98; 13Zet Oph ; 2.57; 30000;occ; 99; 0;32822
13; 2030.5; 10-JUN-2008 01:14:19; Bright; 47.5; 126; 60Bet Oph ; 2.77; 4250;occ; 95; 0;32822
14; 2188.4; 10-JUN-2008 01:16:57; Bright; 48.0; 59; 55Alp Oph ; 2.08; 8900;occ; 96; 0;32822
15; 2286.9; 10-JUN-2008 01:18:35; Bright; 39.0; 127; 27Bet Her ; 2.78; 4700;occ; 78; 0;32822
16; 2477.2; 10-JUN-2008 01:21:45; Bright; 40.5; 133; 40Zet Her ; 2.81; 6000;occ; 81; 0;32822
17; 2902.1; 10-JUN-2008 01:28:50; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;32822
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19; 3911.8; 10-JUN-2008 01:45:40; Bright; 58.0; 76; 27Gam Cas ; 2.30; 30000;occ; 116; 0;32822
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7; 577.5; 10-JUN-2008 02:30:42; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;32823
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12; 1710.7; 10-JUN-2008 02:49:35; Bright; 38.5; 98; 13Zet Oph ; 2.57; 30000;occ; 77; 0;32823
13; 2030.4; 10-JUN-2008 02:54:54; Bright; 47.5; 126; 60Bet Oph ; 2.77; 4250;occ; 95; 0;32823
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17; 2901.8; 10-JUN-2008 03:09:26; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;32823
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3;-1769.5; 10-JUN-2008 03:32:10; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;32823
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6; -659.2; 10-JUN-2008 03:50:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32823
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13; 1090.3; 10-JUN-2008 04:19:50; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;32824
14; 1194.9; 10-JUN-2008 04:21:35; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;32824
15; 1293.2; 10-JUN-2008 04:23:13; Dark ; 62.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 125; 0;32824
16; 1605.2; 10-JUN-2008 04:28:25; Bright; 40.5; 86; 35Eta Oph ; 2.43; 10200;occ; 81; 0;32824
17; 1711.0; 10-JUN-2008 04:30:11; Bright; 37.5; 98; 13Zet Oph ; 2.57; 30000;occ; 75; 0;32824
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19; 2187.8; 10-JUN-2008 04:38:08; Bright; 46.0; 59; 55Alp Oph ; 2.08; 8900;occ; 92; 0;32824
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21; 2476.9; 10-JUN-2008 04:42:57; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;32824
22; 2901.4; 10-JUN-2008 04:50:01; Bright; 41.0; 130; 23Bet Dra ; 2.80; 5800;occ; 82; 0;32824
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7; -156.8; 10-JUN-2008 05:39:39; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;32824
8; 68.6; 10-JUN-2008 05:43:25; Dark ; 36.0; 18; 24Alp PsA ; 1.17; 9700;occ; 72; 0;32825
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12; 1090.6; 10-JUN-2008 06:00:27; Dark ; 47.0; 40; The Sco ; 1.86; 7100;occ; 94; 0;32825
13; 1195.1; 10-JUN-2008 06:02:11; Dark ; 40.0; 25; 35Lam Sco ; 1.62; 28000;occ; 80; 0;32825
14; 1293.5; 10-JUN-2008 06:03:49; Dark ; 58.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 116; 0;32825
15; 1605.3; 10-JUN-2008 06:09:01; Bright; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;32825
16; 1711.1; 10-JUN-2008 06:10:47; Bright; 40.5; 98; 13Zet Oph ; 2.57; 30000;occ; 81; 0;32825
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18; 2187.3; 10-JUN-2008 06:18:43; Bright; 47.0; 59; 55Alp Oph ; 2.08; 8900;occ; 94; 0;32825
19; 2286.7; 10-JUN-2008 06:20:23; Bright; 56.0; 127; 27Bet Her ; 2.78; 4700;occ; 112; 0;32825
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3; 1297.5; 10-JUN-2008 21:09:17; Dark ; 56.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 113; 0;32834
4; 1606.2; 10-JUN-2008 21:14:26; Bright; 40.5; 86; 35Eta Oph ; 2.43; 10200;occ; 81; 0;32834
5; 1711.7; 10-JUN-2008 21:16:11; Bright; 37.5; 98; 13Zet Oph ; 2.57; 30000;occ; 75; 0;32834

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8; 2285.1; 10-JUN-2008 21:25:45; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;32834
9; 2474.0; 10-JUN-2008 21:28:53; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;32834
10; 2896.6; 10-JUN-2008 21:35:56; Bright; 42.5; 130; 23Bet Dra ; 2.80; 5800;occ; 85; 0;32834
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13; 4267.0; 10-JUN-2008 21:58:46; Bright; 41.0; 73; 57Gam1And ; 2.26; 13100;occ; 82; 0;32834
14; 4406.8; 10-JUN-2008 22:01:06; Dark ; 53.0; 53; 43Bet And ; 2.05; 3300;occ; 106; 0;32834
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5; 330.7; 10-JUN-2008 22:33:46; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;32835
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9; 1198.2; 10-JUN-2008 22:48:14; Dark ; 45.5; 25; 35Lam Sco ; 1.62; 28000;occ; 91; 0;32835
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12; 1711.8; 10-JUN-2008 22:56:47; Bright; 38.0; 98; 13Zet Oph ; 2.57; 30000;occ; 76; 0;32835
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16; 2473.7; 10-JUN-2008 23:09:29; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;32835
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21; 4406.8; 10-JUN-2008 23:41:42; Dark ; 62.0; 53; 43Bet And ; 2.05; 3300;occ; 124; 0;32835
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4; 210.3; 11-JUN-2008 00:12:22; Dark ; 51.0; 63; Bet Gru ; 2.15; 2800;occ; 102; 0;32836
5; 331.8; 11-JUN-2008 00:14:23; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;32836
6; 423.1; 11-JUN-2008 00:15:54; Dark ; 56.0; 172; Gam Gru ; 3.00; 13100;occ; 112; 0;32836
7; 585.8; 11-JUN-2008 00:18:37; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;32836
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9; 1198.5; 11-JUN-2008 00:28:50; Dark ; 43.0; 25; 35Lam Sco ; 1.62; 28000;occ; 86; 0;32836
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19; 3909.4; 11-JUN-2008 01:14:01; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;32836
20; 4267.0; 11-JUN-2008 01:19:58; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;32836
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9; 255.5; 14-JUN-2008 07:01:16; Dark ; 63.5; 63; Bet Gru ; 2.15; 2800;occ; 127; 0;32883
10; 615.3; 14-JUN-2008 07:07:15; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;32883
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17; 1611.7; 14-JUN-2008 07:23:52; Bright; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;32883
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4; 2278.7; 14-JUN-2008 07:34:59; Bright; 38.0; 127; 27Bet Her ; 2.78; 4700;occ; 76; 0;32883
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9; 3168.7; 14-JUN-2008 07:49:49; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;32883
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12; 4061.3; 14-JUN-2008 08:04:41; Bright; 33.5; 160; 23Gam Per ; 2.93; 4700;occ; 67; 0;32883
13; 4269.3; 14-JUN-2008 08:08:09; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;32883
14; 4403.5; 14-JUN-2008 08:10:24; Bright; 38.5; 173; 4Bet Tri ; 3.00; 8900;occ; 77; 0;32883
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16; 4902.2; 14-JUN-2008 08:18:42; Dark ; 43.5; 94; 92Alp Cet ; 2.53; 3100;occ; 87; 0;32883
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19; 6292.3; 14-JUN-2008 08:41:52; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;32883
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23; 7146.3; 14-JUN-2008 08:56:06; Dark ; 43.5; 40; The Sco ; 1.86; 7100;occ; 87; 0;32883
24; 7249.4; 14-JUN-2008 08:57:49; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;32883
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26; 7504.6; 14-JUN-2008 09:02:05; Bright; 36.0; 156; 20Sig Sco ; 2.90; 28000;occ; 72; 0;32883
27; 7647.9; 14-JUN-2008 09:04:28; Bright; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;32883
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3; 2278.7; 14-JUN-2008 09:15:35; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;32884
4; 2367.1; 14-JUN-2008 09:17:03; Bright; 33.5; 67; 5Alp CrB ; 2.22; 11000;occ; 67; 0;32884

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7; 2963.7; 14-JUN-2008 09:27:00; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;32884
8; 3168.7; 14-JUN-2008 09:30:25; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;32884
9; 3446.7; 14-JUN-2008 09:35:03; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;32884
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11; 4061.3; 14-JUN-2008 09:45:17; Bright; 33.5; 160; 23Gam Per ; 2.93; 4700;occ; 67; 0;32884
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13; 4403.8; 14-JUN-2008 09:51:00; Bright; 37.0; 173; 4Bet Tri ; 3.00; 8900;occ; 74; 0;32884
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18; 6293.3; 14-JUN-2008 10:22:29; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;32884
19; 6652.4; 14-JUN-2008 10:28:28; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;32884
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21; 7041.6; 14-JUN-2008 10:34:58; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;32884
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13; 4269.4; 14-JUN-2008 11:29:21; Bright; 56.0; 73; 57Gam1And ; 2.26; 13100;occ; 112; 0;32885
14; 4403.8; 14-JUN-2008 11:31:36; Bright; 38.5; 173; 4Bet Tri ; 3.00; 8900;occ; 77; 0;32885
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22; 7041.9; 14-JUN-2008 12:15:34; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;32885
23; 7146.9; 14-JUN-2008 12:17:19; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;32885
24; 7249.8; 14-JUN-2008 12:19:02; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;32885
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5; 2278.4; 14-JUN-2008 12:36:46; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;32886
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7; 2462.0; 14-JUN-2008 12:39:50; Bright; 55.0; 133; 40Zet Her ; 2.81; 6000;occ; 110; 0;32886
8; 2873.9; 14-JUN-2008 12:46:42; Bright; 40.5; 130; 23Bet Dra ; 2.80; 5800;occ; 81; 0;32886
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16; 4617.4; 14-JUN-2008 13:15:45; Dark ; 47.5; 50; 13Alp Ari ; 2.01; 4250;occ; 95; 0;32886

17; 4903.0; 14-JUN-2008 13:20:31; Dark ; 44.5; 94; 92Alp Cet ; 2.53; 3100;occ; 89; 0;32886
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 22; 6960.5; 14-JUN-2008 13:54:48; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;32886
 23; 7042.2; 14-JUN-2008 13:56:10; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;32886
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 26; 7338.3; 14-JUN-2008 14:01:06; Dark ; 42.0; 75; 26Eps Sco ; 2.29; 4250;occ; 84; 0;32886
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 22; 6960.9; 14-JUN-2008 15:35:25; Dark ; 38.0; 141; Bet Ara ; 2.84; 4600;occ; 76; 0;32887
 23; 7042.5; 14-JUN-2008 15:36:46; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;32887
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 25; 7250.7; 14-JUN-2008 15:40:14; Dark ; 45.0; 25; 35Lam Sco ; 1.62; 28000;occ; 90; 0;32887
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9; 268.0; 15-JUN-2008 04:49:15; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;32896
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 23; 2460.1; 15-JUN-2008 07:06:23; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;32897
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 24; 4406.0; 15-JUN-2008 22:44:12; Bright; 40.0; 173; 4Bet Tri ; 3.00; 8900;occ; 80; 0;32906
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3;	1472.0;	15-JUN-2008	16:53:31;	Bright;	37.0;	156;	20Sig Sco	;	2.90;	28000;occ;	74;	0;32903
4;	1614.2;	15-JUN-2008	16:55:53;	Bright;	39.0;	86;	35Eta Oph	;	2.43;	10200;occ;	78;	0;32903
5;	1718.5;	15-JUN-2008	16:57:37;	Bright;	36.0;	98;	13Zet Oph	;	2.57;	30000;occ;	72;	0;32903
6;	1844.4;	15-JUN-2008	16:59:43;	Bright;	36.0;	120;	1Del Oph	;	2.73;	3200;occ;	72;	0;32903
7;	2277.0;	15-JUN-2008	17:06:56;	Bright;	36.5;	127;	27Bet Her	;	2.78;	4700;occ;	73;	0;32903
8;	2369.0;	15-JUN-2008	17:08:28;	Bright;	34.5;	67;	5Alp CrB	;	2.22;	11000;occ;	69;	0;32903
9;	2458.9;	15-JUN-2008	17:09:58;	Bright;	36.0;	133;	40Zet Her	;	2.81;	6000;occ;	72;	0;32903
10;	2867.3;	15-JUN-2008	17:16:46;	Bright;	39.0;	130;	23Bet Dra	;	2.80;	5800;occ;	78;	0;32903
11;	2961.4;	15-JUN-2008	17:18:20;	Bright;	36.0;	119;	14Eta Dra	;	2.73;	4700;occ;	72;	0;32903
12;	3169.9;	15-JUN-2008	17:21:48;	Bright;	37.0;	60;	7Bet UMi	;	2.08;	3950;occ;	74;	0;32903
13;	3446.8;	15-JUN-2008	17:26:25;	Bright;	35.0;	49;	1Alp UMi	;	1.99;	6300;occ;	70;	0;32903
14;	3896.5;	15-JUN-2008	17:33:55;	Bright;	38.5;	76;	27Gam Cas	;	2.30;	30000;occ;	77;	0;32903
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16;	4270.0;	15-JUN-2008	17:40:09;	Bright;	40.5;	73;	57Gam1And	;	2.26;	13100;occ;	81;	0;32903
17;	4405.9;	15-JUN-2008	17:42:25;	Bright;	39.5;	173;	4Bet Tri	;	3.00;	8900;occ;	79;	0;32903
18;	4621.3;	15-JUN-2008	17:46:00;	Dark ;	48.0;	50;	13Alp Ari	;	2.01;	4250;occ;	96;	0;32903
19;	4907.2;	15-JUN-2008	17:50:46;	Dark ;	49.5;	94;	92Alp Cet	;	2.53;	3100;occ;	99;	0;32903
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21;	5938.2;	15-JUN-2008	18:07:57;	Dark ;	48.0;	84;	Alp Phe	;	2.40;	4500;occ;	96;	0;32903
22;	6311.9;	15-JUN-2008	18:14:10;	Dark ;	51.5;	63;	Bet Gru	;	2.15;	2800;occ;	103;	0;32903
23;	6664.1;	15-JUN-2008	18:20:03;	Dark ;	42.0;	45;	Alp Pav	;	1.94;	26000;occ;	84;	0;32903
24;	6965.3;	15-JUN-2008	18:25:04;	Dark ;	39.0;	141;	Bet Ara	;	2.84;	4600;occ;	78;	0;32903
25;	7047.3;	15-JUN-2008	18:26:26;	Dark ;	37.5;	147;	Alp Ara	;	2.88;	26000;occ;	75;	0;32903
26;	7152.7;	15-JUN-2008	18:28:11;	Dark ;	7.0;	40;	The Sco	;	1.86;	7100;occ;	14;	0;32903
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4;	1306.1;	15-JUN-2008	18:31:21;	Dark ;	42.5;	75;	26Eps Sco	;	2.29;	4250;occ;	85;	0;32904
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7;	1718.5;	15-JUN-2008	18:38:13;	Bright;	36.5;	98;	13Zet Oph	;	2.57;	30000;occ;	73;	0;32904
8;	1844.4;	15-JUN-2008	18:40:19;	Bright;	36.0;	120;	1Del Oph	;	2.73;	3200;occ;	72;	0;32904
9;	2277.1;	15-JUN-2008	18:47:32;	Bright;	37.5;	127;	27Bet Her	;	2.78;	4700;occ;	75;	0;32904
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13;	2961.2;	15-JUN-2008	18:58:56;	Bright;	34.5;	119;	14Eta Dra	;	2.73;	4700;occ;	69;	0;32904
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15;	3446.7;	15-JUN-2008	19:07:01;	Bright;	36.0;	49;	1Alp UMi	;	1.99;	6300;occ;	72;	0;32904
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17;	4062.5;	15-JUN-2008	19:17:17;	Bright;	53.0;	160;	23Gam Per	;	2.93;	4700;occ;	106;	0;32904
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19;	4405.8;	15-JUN-2008	19:23:00;	Bright;	40.0;	173;	4Bet Tri	;	3.00;	8900;occ;	80;	0;32904
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21;	4907.4;	15-JUN-2008	19:31:22;	Dark ;	44.0;	94;	92Alp Cet	;	2.53;	3100;occ;	88;	0;32904
22;	5616.5;	15-JUN-2008	19:43:11;	Dark ;	59.5;	0;		;	0.00;	0;occ;	119;	0;32904
23;	5939.0;	15-JUN-2008	19:48:34;	Dark ;	49.0;	84;	Alp Phe	;	2.40;	4500;occ;	98;	0;32904
24;	6312.8;	15-JUN-2008	19:54:47;	Dark ;	52.0;	63;	Bet Gru	;	2.15;	2800;occ;	104;	0;32904
25;	6664.6;	15-JUN-2008	20:00:39;	Dark ;	42.0;	45;	Alp Pav	;	1.94;	26000;occ;	84;	0;32904
26;	6965.5;	15-JUN-2008	20:05:40;	Dark ;	44.5;	141;	Bet Ara	;	2.84;	4600;occ;	89;	0;32904
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3;	279.9;	16-JUN-2008	00:56:38;	Dark ;	47.0;	63;	Bet Gru	;	2.15;	2800;occ;	94;	0;32908
4;	630.5;	16-JUN-2008	01:02:29;	Dark ;	42.0;	45;	Alp Pav	;	1.94;	26000;occ;	84;	0;32908
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8;	1220.5;	16-JUN-2008	01:12:19;	Dark ;	43.0;	25;	35Lam Sco	;	1.62;	28000;occ;	86;	0;32908
9;	1306.9;	16-JUN-2008	01:13:45;	Dark ;	43.5;	75;	26Eps Sco	;	2.29;	4250;occ;	87;	0;32908
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12;	1718.8;	16-JUN-2008	01:20:37;	Bright;	37.0;	98;	13Zet Oph	;	2.57;	30000;occ;	74;	0;32908
13;	1844.9;	16-JUN-2008	01:22:43;	Bright;	35.5;	120;	1Del Oph	;	2.73;	3200;occ;	71;	0;32908
14;	2276.6;	16-JUN-2008	01:29:55;	Bright;	37.0;	127;	27Bet Her	;	2.78;	4700;occ;	74;	0;32908

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 4; 631.0; 16-JUN-2008 02:43:05; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;32909
 5; 930.6; 16-JUN-2008 02:48:05; Dark ; 40.5; 141; Bet Ara ; 2.84; 4600;occ; 81; 0;32909
 6; 1012.7; 16-JUN-2008 02:49:27; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;32909
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11; 4065.0; 21-JUN-2008 11:05:50; Bright; 46.0; 160; 23Gam Per ; 2.93; 4700;occ; 92; 0;32985
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13; 4413.9; 21-JUN-2008 11:11:39; Dark ; 43.5; 173; 4Bet Tri ; 3.00; 8900;occ; 87; 0;32985
14; 4641.1; 21-JUN-2008 11:15:26; Dark ; 49.5; 50; 13Alp Ari ; 2.01; 4250;occ; 99; 0;32985
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 21; 7069.9; 21-JUN-2008 13:36:31; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;32986
 22; 7176.3; 21-JUN-2008 13:38:17; Dark ; 40.0; 40; The Sco ; 1.86; 7100;occ; 80; 0;32986
 23; 7277.5; 21-JUN-2008 13:39:58; Dark ; 41.5; 25; 35Lam Sco ; 1.62; 28000;occ; 83; 0;32986
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 7; 2838.7; 21-JUN-2008 14:06:35; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;32987
 8; 2953.9; 21-JUN-2008 14:08:30; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;32987
 9; 3176.3; 21-JUN-2008 14:12:13; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;32987
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 3; 1728.6; 21-JUN-2008 15:28:41; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;32988
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 5; 1625.1; 21-JUN-2008 18:48:10; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;32990
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 7; 1991.5; 21-JUN-2008 18:54:16; Bright; 39.5; 126; 60Bet Oph ; 2.77; 4250;occ; 79; 0;32990
 8; 2136.8; 21-JUN-2008 18:56:41; Bright; 40.5; 59; 55Alp Oph ; 2.08; 8900;occ; 81; 0;32990
 9; 2274.2; 21-JUN-2008 18:58:59; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;32990
 10; 2448.4; 21-JUN-2008 19:01:53; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;32990
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 12; 2953.7; 21-JUN-2008 19:10:18; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;32990
 13; 3176.6; 21-JUN-2008 19:14:01; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;32990
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 18; 4414.3; 21-JUN-2008 19:34:39; Dark ; 42.5; 173; 4Bet Tri ; 3.00; 8900;occ; 85; 0;32990
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 22; 6014.8; 21-JUN-2008 20:01:19; Dark ; 39.0; 9; Alp Eri ; 0.45; 24000;occ; 78; 0;32990
 23; 6397.5; 21-JUN-2008 20:07:42; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;32990
 24; 6714.8; 21-JUN-2008 20:12:59; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;32990

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 3; 364.5; 22-JUN-2008 01:09:33; Dark ; 51.0; 63; Bet Gru ; 2.15; 2800;occ; 102; 0;32994

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5; 1035.8; 22-JUN-2008 01:20:44; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;32994
6; 1142.1; 22-JUN-2008 01:22:30; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;32994
7; 1243.4; 22-JUN-2008 01:24:12; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;32994
8; 1323.9; 22-JUN-2008 01:25:32; Dark ; 55.5; 116; 19Del Sgr ; 2.70; 4100;occ; 111; 0;32994
9; 1399.9; 22-JUN-2008 01:26:48; Bright; 43.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 86; 0;32994
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11; 1729.3; 22-JUN-2008 01:32:17; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;32994
12; 1990.7; 22-JUN-2008 01:36:39; Bright; 40.0; 126; 60Bet Oph ; 2.77; 4250;occ; 80; 0;32994
13; 2135.9; 22-JUN-2008 01:39:04; Bright; 40.0; 59; 55Alp Oph ; 2.08; 8900;occ; 80; 0;32994
14; 2274.2; 22-JUN-2008 01:41:22; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;32994
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17; 2953.4; 22-JUN-2008 01:52:41; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;32994
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3;-1764.9; 22-JUN-2008 02:14:39; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;32994
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6;-1103.4; 22-JUN-2008 02:25:41; Dark ; 45.0; 94; 92Alp Cet ; 2.53; 3100;occ; 90; 0;32994
7; -627.3; 22-JUN-2008 02:33:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32994
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9; 365.6; 22-JUN-2008 02:50:10; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;32995
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11; 1036.0; 22-JUN-2008 03:01:20; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;32995
12; 1142.4; 22-JUN-2008 03:03:06; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;32995
13; 1243.6; 22-JUN-2008 03:04:48; Dark ; 40.0; 25; 35Lam Sco ; 1.62; 28000;occ; 80; 0;32995
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19; 2135.8; 22-JUN-2008 03:19:40; Bright; 39.5; 59; 55Alp Oph ; 2.08; 8900;occ; 79; 0;32995
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22; 2836.4; 22-JUN-2008 03:31:20; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;32995
23; 2953.5; 22-JUN-2008 03:33:17; Bright; 33.5; 119; 14Eta Dra ; 2.73; 4700;occ; 67; 0;32995
24; 3177.0; 22-JUN-2008 03:37:01; Bright; 33.0; 60; 7Bet UMi ; 2.08; 3950;occ; 66; 0;32995
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3;-1764.9; 22-JUN-2008 03:55:15; Bright; 43.5; 73; 57Gam1And ; 2.26; 13100;occ; 87; 0;32995
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5;-1392.1; 22-JUN-2008 04:01:28; Dark ; 53.5; 50; 13Alp Ari ; 2.01; 4250;occ; 107; 0;32995
6;-1103.1; 22-JUN-2008 04:06:17; Dark ; 45.5; 94; 92Alp Cet ; 2.53; 3100;occ; 91; 0;32995
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9; 366.5; 22-JUN-2008 04:30:47; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;32996
10; 681.7; 22-JUN-2008 04:36:02; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;32996
11; 1142.7; 22-JUN-2008 04:43:43; Dark ; 39.0; 40; The Sco ; 1.86; 7100;occ; 78; 0;32996
12; 1243.8; 22-JUN-2008 04:45:24; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;32996
13; 1324.6; 22-JUN-2008 04:46:45; Dark ; 54.0; 116; 19Del Sgr ; 2.70; 4100;occ; 108; 0;32996
14; 1400.6; 22-JUN-2008 04:48:01; Bright; 42.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 85; 0;32996
15; 1625.9; 22-JUN-2008 04:51:46; Bright; 38.0; 86; 35Eta Oph ; 2.43; 10200;occ; 76; 0;32996
16; 1729.4; 22-JUN-2008 04:53:29; Bright; 35.0; 98; 13Zet Oph ; 2.57; 30000;occ; 70; 0;32996
17; 1990.6; 22-JUN-2008 04:57:51; Bright; 40.0; 126; 60Bet Oph ; 2.77; 4250;occ; 80; 0;32996
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19; 2274.3; 22-JUN-2008 05:02:34; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;32996
20; 2447.9; 22-JUN-2008 05:05:28; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;32996
21; 2836.2; 22-JUN-2008 05:11:56; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;32996
22; 2953.3; 22-JUN-2008 05:13:53; Bright; 34.5; 119; 14Eta Dra ; 2.73; 4700;occ; 69; 0;32996
23; 3177.0; 22-JUN-2008 05:17:37; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;32996
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6; -626.0; 22-JUN-2008 05:54:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32996
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8; 367.5; 22-JUN-2008 06:11:24; Dark ; 58.0; 63; Bet Gru ; 2.15; 2800;occ; 116; 0;32997
9; 682.2; 22-JUN-2008 06:16:38; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;32997
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11; 1244.0; 22-JUN-2008 06:26:00; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;32997
12; 1324.8; 22-JUN-2008 06:27:21; Dark ; 46.0; 116; 19Del Sgr ; 2.70; 4100;occ; 92; 0;32997
13; 1400.7; 22-JUN-2008 06:28:37; Bright; 44.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 88; 0;32997
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21; 2953.2; 22-JUN-2008 06:54:29; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;32997
22; 3177.1; 22-JUN-2008 06:58:13; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;32997
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3; 1327.0; 22-JUN-2008 19:52:10; Dark ; 50.0; 116; 19Del Sgr ; 2.70; 4100;occ; 100; 0;33005
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5; 1627.0; 22-JUN-2008 19:57:11; Bright; 37.5; 86; 35Eta Oph ; 2.43; 10200;occ; 75; 0;33005
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7; 1989.5; 22-JUN-2008 20:03:13; Bright; 39.5; 126; 60Bet Oph ; 2.77; 4250;occ; 79; 0;33005
8; 2134.0; 22-JUN-2008 20:05:38; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;33005
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13; 3177.8; 22-JUN-2008 20:23:01; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;33005
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15; 3870.8; 22-JUN-2008 20:34:34; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;33005
16; 4065.3; 22-JUN-2008 20:37:49; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;33005
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18; 4415.7; 22-JUN-2008 20:43:39; Dark ; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;33005
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3; 376.3; 22-JUN-2008 21:16:56; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;33006
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6; 1246.1; 22-JUN-2008 21:31:26; Dark ; 42.5; 25; 35Lam Sco ; 1.62; 28000;occ; 85; 0;33006
7; 1327.2; 22-JUN-2008 21:32:47; Dark ; 51.0; 116; 19Del Sgr ; 2.70; 4100;occ; 102; 0;33006
8; 1627.0; 22-JUN-2008 21:37:46; Bright; 38.0; 86; 35Eta Oph ; 2.43; 10200;occ; 76; 0;33006
9; 1730.7; 22-JUN-2008 21:39:30; Bright; 36.5; 98; 13Zet Oph ; 2.57; 30000;occ; 73; 0;33006
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13; 2447.1; 22-JUN-2008 21:51:27; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;33006
14; 2833.2; 22-JUN-2008 21:57:53; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;33006
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19; 4065.1; 22-JUN-2008 22:18:24; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;33006
20; 4270.9; 22-JUN-2008 22:21:50; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;33006
21; 4415.5; 22-JUN-2008 22:24:15; Dark ; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;33006
22; 4936.2; 22-JUN-2008 22:32:56; Dark ; 48.0; 94; 92Alp Cet ; 2.53; 3100;occ; 96; 0;33006

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21; 4650.6; 23-JUN-2008 23:37:09; Dark ; 55.0; 50; 13Alp Ari ; 2.01; 4250;occ; 110; 0;33021
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9; 382.4; 23-JUN-2008 07:20:37; Dark ; 54.5; 63; Bet Gru ; 2.15; 2800;occ; 109; 0;33012
10; 690.6; 23-JUN-2008 07:25:46; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;33012
11; 1146.9; 23-JUN-2008 07:33:22; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;33012
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13; 1329.0; 23-JUN-2008 07:36:24; Dark ; 56.5; 116; 19Del Sgr ; 2.70; 4100;occ; 113; 0;33012
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3; 2132.9; 23-JUN-2008 07:49:48; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;33012
4; 2274.7; 23-JUN-2008 07:52:10; Bright; 34.0; 127; 27Bet Her ; 2.78; 4700;occ; 68; 0;33012
5; 2447.1; 23-JUN-2008 07:55:02; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;33012
6; 2831.7; 23-JUN-2008 08:01:27; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;33012
7; 2952.7; 23-JUN-2008 08:03:28; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;33012
8; 3178.6; 23-JUN-2008 08:07:14; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;33012
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16; 5420.6; 23-JUN-2008 08:44:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33012
17; 6024.0; 23-JUN-2008 08:54:39; Dark ; 38.5; 9; Alp Eri ; 0.45; 24000;occ; 77; 0;33012
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23; 7664.1; 23-JUN-2008 09:21:59; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;33012
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3; 2132.7; 23-JUN-2008 09:30:24; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;33013
4; 2274.8; 23-JUN-2008 09:32:46; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;33013
5; 2447.0; 23-JUN-2008 09:35:38; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;33013
6; 2831.5; 23-JUN-2008 09:42:02; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;33013
7; 2952.6; 23-JUN-2008 09:44:03; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33013
8; 3178.8; 23-JUN-2008 09:47:50; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;33013
9; 3446.2; 23-JUN-2008 09:52:17; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33013
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13; 4416.4; 23-JUN-2008 10:08:27; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;33013
14; 4648.4; 23-JUN-2008 10:12:19; Dark ; 52.0; 50; 13Alp Ari ; 2.01; 4250;occ; 104; 0;33013
15; 4938.5; 23-JUN-2008 10:17:09; Dark ; 47.0; 94; 92Alp Cet ; 2.53; 3100;occ; 94; 0;33013
16; 5421.2; 23-JUN-2008 10:25:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33013
17; 6024.4; 23-JUN-2008 10:35:15; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;33013
18; 6420.2; 23-JUN-2008 10:41:51; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;33013
19; 6727.5; 23-JUN-2008 10:46:58; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;33013
20; 7183.3; 23-JUN-2008 10:54:34; Dark ; 40.0; 40; The Sco ; 1.86; 7100;occ; 80; 0;33013
21; 7284.1; 23-JUN-2008 10:56:15; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;33013
22; 7365.5; 23-JUN-2008 10:57:36; Dark ; 46.5; 116; 19Del Sgr ; 2.70; 4100;occ; 93; 0;33013
23; 7664.1; 23-JUN-2008 11:02:35; Bright; 25.0; 86; 35Eta Oph ; 2.43; 10200;occ; 50; 0;33013

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4; 695.9; 24-JUN-2008 00:11:50; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;33022
5; 1149.2; 24-JUN-2008 00:19:23; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;33022
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11; 2131.3; 24-JUN-2008 00:35:45; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;33022
12; 2274.9; 24-JUN-2008 00:38:09; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;33022
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15; 2952.2; 24-JUN-2008 00:49:26; Bright; 32.5; 119; 14Eta Dra ; 2.73; 4700;occ; 65; 0;33022
16; 3179.6; 24-JUN-2008 00:53:14; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;33022
17; 3446.1; 24-JUN-2008 00:57:40; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;33022
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9; 3178.8; 23-JUN-2008 11:28:26; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;33014
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9; 3179.0; 23-JUN-2008 13:09:02; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;33015
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21; 7183.9; 23-JUN-2008 14:15:47; Dark ; 42.5; 40; The Sco ; 1.86; 7100;occ; 85; 0;33015
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21; 7285.0; 23-JUN-2008 15:58:03; Dark ; 39.0; 25; 35Lam Sco ; 1.62; 28000;occ; 78; 0;33016
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3; 1732.6; 23-JUN-2008 16:06:07; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;33017
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5; 2132.2; 23-JUN-2008 16:12:47; Bright; 39.5; 59; 55Alp Oph ; 2.08; 8900;occ; 79; 0;33017
6; 2274.9; 23-JUN-2008 16:15:09; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;33017
7; 2446.9; 23-JUN-2008 16:18:01; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;33017
8; 2830.4; 23-JUN-2008 16:24:25; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;33017
9; 2952.5; 23-JUN-2008 16:26:27; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33017
10; 3179.2; 23-JUN-2008 16:30:14; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;33017
11; 3446.2; 23-JUN-2008 16:34:41; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33017
12; 3867.4; 23-JUN-2008 16:41:42; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;33017
13; 4065.4; 23-JUN-2008 16:45:00; Bright; 33.5; 160; 23Gam Per ; 2.93; 4700;occ; 67; 0;33017
14; 4270.9; 23-JUN-2008 16:48:25; Bright; 44.0; 73; 57Gam1And ; 2.26; 13100;occ; 88; 0;33017
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19; 6424.3; 23-JUN-2008 17:24:19; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;33017
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21; 7184.4; 23-JUN-2008 17:36:59; Dark ; 39.0; 40; The Sco ; 1.86; 7100;occ; 78; 0;33017

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3; 1330.6; 23-JUN-2008 17:40:01; Dark ; 58.0; 116; 19Del Sgr ; 2.70; 4100;occ; 116; 0;33018
4; 1628.7; 23-JUN-2008 17:44:59; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;33018
5; 1732.6; 23-JUN-2008 17:46:43; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;33018
6; 1988.1; 23-JUN-2008 17:50:59; Bright; 58.0; 126; 60Bet Oph ; 2.77; 4250;occ; 116; 0;33018
7; 2132.0; 23-JUN-2008 17:53:22; Bright; 40.5; 59; 55Alp Oph ; 2.08; 8900;occ; 81; 0;33018
8; 2274.9; 23-JUN-2008 17:55:45; Bright; 51.0; 127; 27Bet Her ; 2.78; 4700;occ; 102; 0;33018
9; 2446.8; 23-JUN-2008 17:58:37; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;33018
10; 2830.2; 23-JUN-2008 18:05:01; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;33018
11; 2952.4; 23-JUN-2008 18:07:03; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33018
12; 3179.2; 23-JUN-2008 18:10:50; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;33018
13; 3446.1; 23-JUN-2008 18:15:17; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33018
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17; 4649.9; 23-JUN-2008 18:35:20; Dark ; 48.5; 50; 13Alp Ari ; 2.01; 4250;occ; 97; 0;33018
18; 4940.3; 23-JUN-2008 18:40:11; Dark ; 46.0; 94; 92Alp Cet ; 2.53; 3100;occ; 92; 0;33018
19; 5424.7; 23-JUN-2008 18:48:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33018
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21; 6425.2; 23-JUN-2008 19:04:56; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;33018
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3; 1330.9; 23-JUN-2008 19:20:37; Dark ; 49.5; 116; 19Del Sgr ; 2.70; 4100;occ; 99; 0;33019
4; 1628.9; 23-JUN-2008 19:25:35; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;33019

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6; 1987.9; 23-JUN-2008 19:31:34; Bright; 39.0; 126; 60Bet Oph ; 2.77; 4250;occ; 78; 0;33019
7; 2131.8; 23-JUN-2008 19:33:58; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;33019
8; 2274.8; 23-JUN-2008 19:36:21; Bright; 38.0; 127; 27Bet Her ; 2.78; 4700;occ; 76; 0;33019
9; 2446.8; 23-JUN-2008 19:39:13; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;33019
10; 2829.9; 23-JUN-2008 19:45:36; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;33019
11; 2952.3; 23-JUN-2008 19:47:39; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;33019
12; 3179.3; 23-JUN-2008 19:51:26; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;33019
13; 3446.1; 23-JUN-2008 19:55:53; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33019
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16; 4288.6; 23-JUN-2008 20:09:55; Bright; 54.0; 79; 26Bet Per ; 2.31; 13100;occ; 108; 0;33019
17; 4650.1; 23-JUN-2008 20:15:57; Dark ; 53.0; 50; 13Alp Ari ; 2.01; 4250;occ; 106; 0;33019
18; 4940.6; 23-JUN-2008 20:20:47; Dark ; 44.5; 94; 92Alp Cet ; 2.53; 3100;occ; 89; 0;33019
19; 5425.3; 23-JUN-2008 20:28:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33019
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21; 6426.1; 23-JUN-2008 20:45:33; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;33019
22; 6730.6; 23-JUN-2008 20:50:37; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;33019

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5; 1149.6; 24-JUN-2008 02:00:00; Dark ; 39.5; 40; The Sco ; 1.86; 7100;occ; 79; 0;33023
6; 1250.3; 24-JUN-2008 02:01:40; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;33023
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16; 3179.7; 24-JUN-2008 02:33:50; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;33023
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9; 697.1; 24-JUN-2008 03:33:03; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;33024
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16; 2131.1; 24-JUN-2008 03:56:57; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;33024
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21; 3180.0; 24-JUN-2008 04:14:26; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;33024
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6; -607.1; 24-JUN-2008 04:51:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33024
7; -6.8; 24-JUN-2008 05:01:55; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;33024
8; 395.2; 24-JUN-2008 05:08:37; Dark ; 51.0; 63; Bet Gru ; 2.15; 2800;occ; 102; 0;33025

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3; 1335.0; 24-JUN-2008 20:29:40; Dark ; 47.0; 116; 19Del Sgr ; 2.70; 4100;occ; 94; 0;33034
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8; 1410.0; 24-JUN-2008 22:11:31; Bright; 45.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 91; 0;33035
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11; 2129.5; 24-JUN-2008 22:23:31; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;33035
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13; 1639.0; 28-JUN-2008 21:49:28; Bright; 35.0; 86; 35Eta Oph ; 2.43; 10200;occ; 70; 0;33092
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24; 4164.4; 28-JUN-2008 22:31:34; Bright; 38.0; 175; 39Del Per ; 3.01; 19400;occ; 76; 0;33092
25; 4293.3; 28-JUN-2008 22:33:42; Bright; 38.0; 79; 26Bet Per ; 2.31; 13100;occ; 76; 0;33092
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5; 1264.4; 28-JUN-2008 09:59:02; Dark ; 41.5; 25; 35Lam Sco ; 1.62; 28000;occ; 83; 0;33085
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7;	2814.7;	28-JUN-2008	12:05:28;	Bright;	37.5;	130;	23Bet	Dra	;	2.80;	5800;	occ;	75;	0;	33086	
8;	2951.7;	28-JUN-2008	12:07:45;	Bright;	37.0;	119;	14Eta	Dra	;	2.73;	4700;	occ;	74;	0;	33086	
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13;	4293.1;	28-JUN-2008	12:30:06;	Bright;	37.0;	79;	26Bet	Per	;	2.31;	13100;	occ;	74;	0;	33086	
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15;	5193.1;	28-JUN-2008	12:45:07;	Dark	;	40.0;	165;	34Gam	Eri	;	2.95;	3200;	occ;	80;	0;	33086
16;	5698.2;	28-JUN-2008	12:53:32;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	33086
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19;	6500.9;	28-JUN-2008	13:06:54;	Dark	;	41.5;	148;	Alp	Tuc	;	2.88;	4100;	occ;	83;	0;	33086
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23;	7200.6;	28-JUN-2008	13:18:34;	Dark	;	41.0;	40;	The	Sco	;	1.86;	7100;	occ;	82;	0;	33086
24;	7300.6;	28-JUN-2008	13:20:14;	Dark	;	41.0;	25;	35Lam	Sco	;	1.62;	28000;	occ;	82;	0;	33086
25;	7384.4;	28-JUN-2008	13:21:38;	Dark	;	44.5;	116;	19Del	Sgr	;	2.70;	4100;	occ;	89;	0;	33086

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2;	1743.3;	28-JUN-2008	13:28:13;	Bright;	35.0;	98;	13Zet	Oph	;	2.57;	30000;	occ;	70;	0;	33087	
3;	1983.1;	28-JUN-2008	13:32:12;	Bright;	38.5;	126;	60Bet	Oph	;	2.77;	4250;	occ;	77;	0;	33087	
4;	2124.0;	28-JUN-2008	13:34:33;	Bright;	36.0;	59;	55Alp	Oph	;	2.08;	8900;	occ;	72;	0;	33087	
5;	2280.2;	28-JUN-2008	13:37:09;	Bright;	34.0;	127;	27Bet	Her	;	2.78;	4700;	occ;	68;	0;	33087	
6;	2446.7;	28-JUN-2008	13:39:56;	Bright;	36.0;	133;	40Zet	Her	;	2.81;	6000;	occ;	72;	0;	33087	
7;	2814.6;	28-JUN-2008	13:46:04;	Bright;	38.5;	130;	23Bet	Dra	;	2.80;	5800;	occ;	77;	0;	33087	
8;	2951.7;	28-JUN-2008	13:48:21;	Bright;	36.5;	119;	14Eta	Dra	;	2.73;	4700;	occ;	73;	0;	33087	
9;	3187.5;	28-JUN-2008	13:52:17;	Bright;	33.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	67;	0;	33087	
10;	3445.8;	28-JUN-2008	13:56:35;	Bright;	35.5;	49;	1Alp	UMi	;	1.99;	6300;	occ;	71;	0;	33087	
11;	4064.2;	28-JUN-2008	14:06:54;	Bright;	35.0;	160;	23Gam	Per	;	2.93;	4700;	occ;	70;	0;	33087	
12;	4164.3;	28-JUN-2008	14:08:34;	Bright;	33.5;	175;	39Del	Per	;	3.01;	19400;	occ;	67;	0;	33087	
13;	4293.3;	28-JUN-2008	14:10:43;	Bright;	38.0;	79;	26Bet	Per	;	2.31;	13100;	occ;	76;	0;	33087	
14;	4965.2;	28-JUN-2008	14:21:54;	Dark	;	47.5;	94;	92Alp	Cet	;	2.53;	3100;	occ;	95;	0;	33087
15;	5193.4;	28-JUN-2008	14:25:43;	Dark	;	41.5;	165;	34Gam	Eri	;	2.95;	3200;	occ;	83;	0;	33087
16;	5698.8;	28-JUN-2008	14:34:08;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	33087
17;	6057.8;	28-JUN-2008	14:40:07;	Dark	;	47.5;	9;	Alp	Eri	;	0.45;	24000;	occ;	95;	0;	33087
18;	6345.3;	28-JUN-2008	14:44:55;	Dark	;	36.0;	135;	Bet	Hyi	;	2.82;	5800;	occ;	72;	0;	33087
19;	6501.6;	28-JUN-2008	14:47:31;	Dark	;	42.0;	148;	Alp	Tuc	;	2.88;	4100;	occ;	84;	0;	33087
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21;	7006.3;	28-JUN-2008	14:55:56;	Dark	;	40.5;	141;	Bet	Ara	;	2.84;	4600;	occ;	81;	0;	33087
22;	7093.2;	28-JUN-2008	14:57:23;	Dark	;	37.0;	147;	Alp	Ara	;	2.88;	26000;	occ;	74;	0;	33087
23;	7200.9;	28-JUN-2008	14:59:10;	Dark	;	42.5;	40;	The	Sco	;	1.86;	7100;	occ;	85;	0;	33087
24;	7300.9;	28-JUN-2008	15:00:50;	Dark	;	41.5;	25;	35Lam	Sco	;	1.62;	28000;	occ;	83;	0;	33087
25;	7384.7;	28-JUN-2008	15:02:14;	Dark	;	43.0;	116;	19Del	Sgr	;	2.70;	4100;	occ;	86;	0;	33087

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2;	1743.5;	28-JUN-2008	15:08:49;	Bright;	35.5;	98;	13Zet	Oph	;	2.57;	30000;	occ;	71;	0;	33088	
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4;	2123.9;	28-JUN-2008	15:15:09;	Bright;	39.0;	59;	55Alp	Oph	;	2.08;	8900;	occ;	78;	0;	33088	
5;	2280.2;	28-JUN-2008	15:17:45;	Bright;	36.0;	127;	27Bet	Her	;	2.78;	4700;	occ;	72;	0;	33088	
6;	2446.7;	28-JUN-2008	15:20:32;	Bright;	37.5;	133;	40Zet	Her	;	2.81;	6000;	occ;	75;	0;	33088	
7;	2814.5;	28-JUN-2008	15:26:40;	Bright;	36.5;	130;	23Bet	Dra	;	2.80;	5800;	occ;	73;	0;	33088	
8;	2951.7;	28-JUN-2008	15:28:57;	Bright;	36.0;	119;	14Eta	Dra	;	2.73;	4700;	occ;	72;	0;	33088	
9;	3187.7;	28-JUN-2008	15:32:53;	Bright;	35.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	71;	0;	33088	
10;	3445.9;	28-JUN-2008	15:37:11;	Bright;	36.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	72;	0;	33088	
11;	4064.2;	28-JUN-2008	15:47:29;	Bright;	45.0;	160;	23Gam	Per	;	2.93;	4700;	occ;	90;	0;	33088	
12;	4164.5;	28-JUN-2008	15:49:10;	Bright;	36.0;	175;	39Del	Per	;	3.01;	19400;	occ;	72;	0;	33088	
13;	4293.3;	28-JUN-2008	15:51:19;	Bright;	35.5;	79;	26Bet	Per	;	2.31;	13100;	occ;	71;	0;	33088	
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15;	5193.8;	28-JUN-2008	16:06:19;	Dark	;	38.0;	165;	34Gam	Eri	;	2.95;	3200;	occ;	76;	0;	33088

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 17; 6058.3; 28-JUN-2008 16:20:43; Dark ; 38.5; 9; Alp Eri ; 0.45; 24000;occ; 77; 0;33088
 18; 6345.6; 28-JUN-2008 16:25:31; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;33088
 19; 6502.3; 28-JUN-2008 16:28:07; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;33088
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 22; 7093.6; 28-JUN-2008 16:37:59; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;33088
 23; 7201.2; 28-JUN-2008 16:39:46; Dark ; 39.0; 40; The Sco ; 1.86; 7100;occ; 78; 0;33088

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 4; 1743.5; 28-JUN-2008 16:49:25; Bright; 35.5; 98; 13Zet Oph ; 2.57; 30000;occ; 71; 0;33089
 5; 1983.1; 28-JUN-2008 16:53:24; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;33089
 6; 2123.9; 28-JUN-2008 16:55:45; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 0;33089
 7; 2280.4; 28-JUN-2008 16:58:22; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;33089
 8; 2446.7; 28-JUN-2008 17:01:08; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;33089
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 23; 7006.7; 28-JUN-2008 18:17:08; Dark ; 37.0; 141; Bet Ara ; 2.84; 4600;occ; 74; 0;33089
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 13; 3187.9; 28-JUN-2008 18:54:05; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;33090
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 23; 6503.4; 28-JUN-2008 19:49:21; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;33090
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