

GOMOS Daily Report 21-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	23JUN2008 05:32:08
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (21JUN2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (22JUN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	44
Nb of prods with errors	0

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

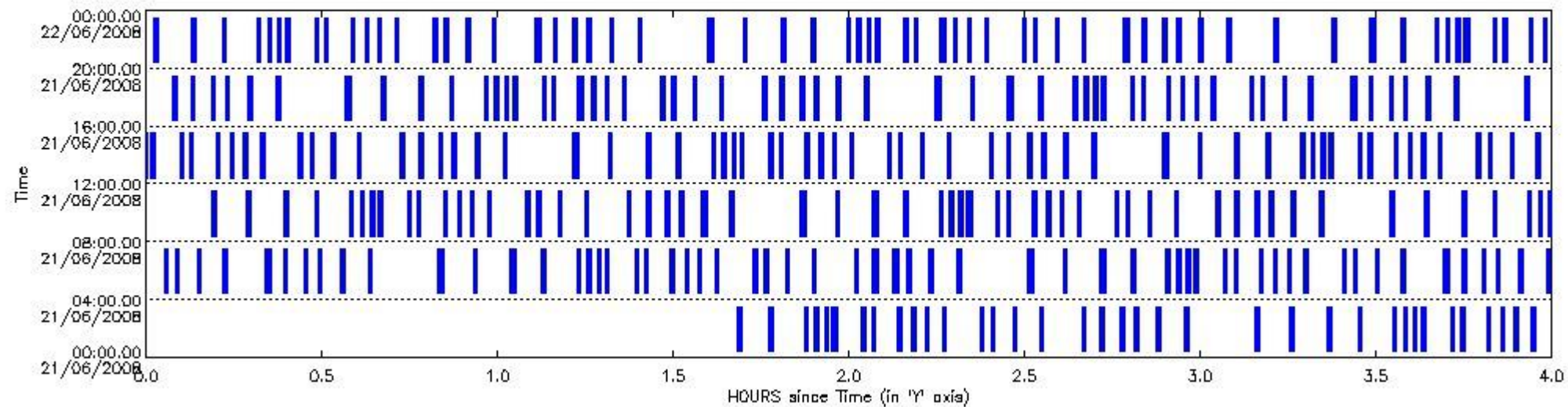
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

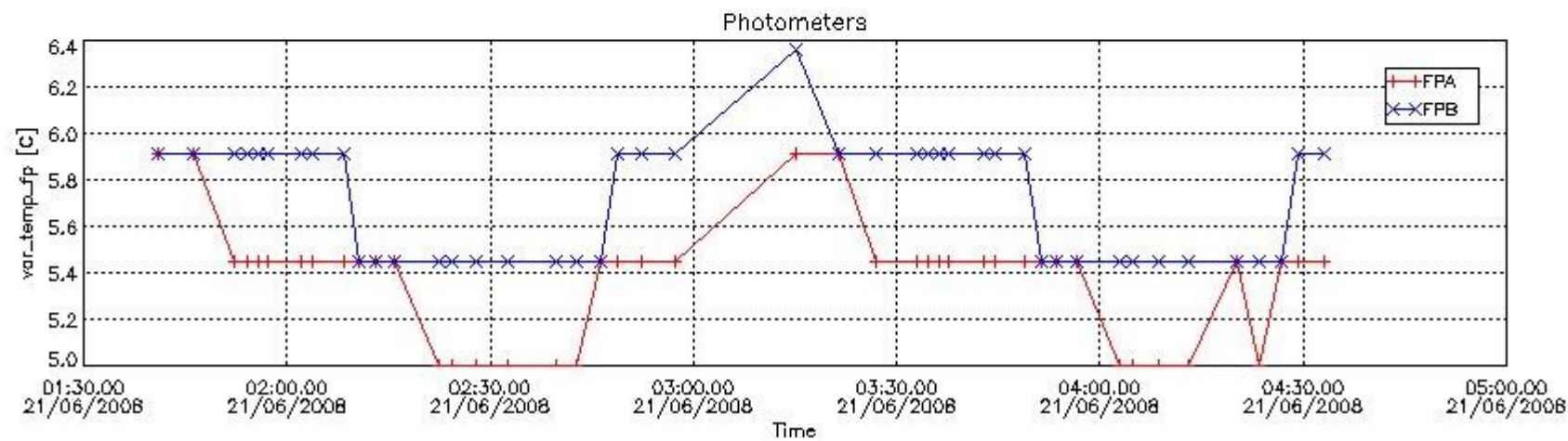
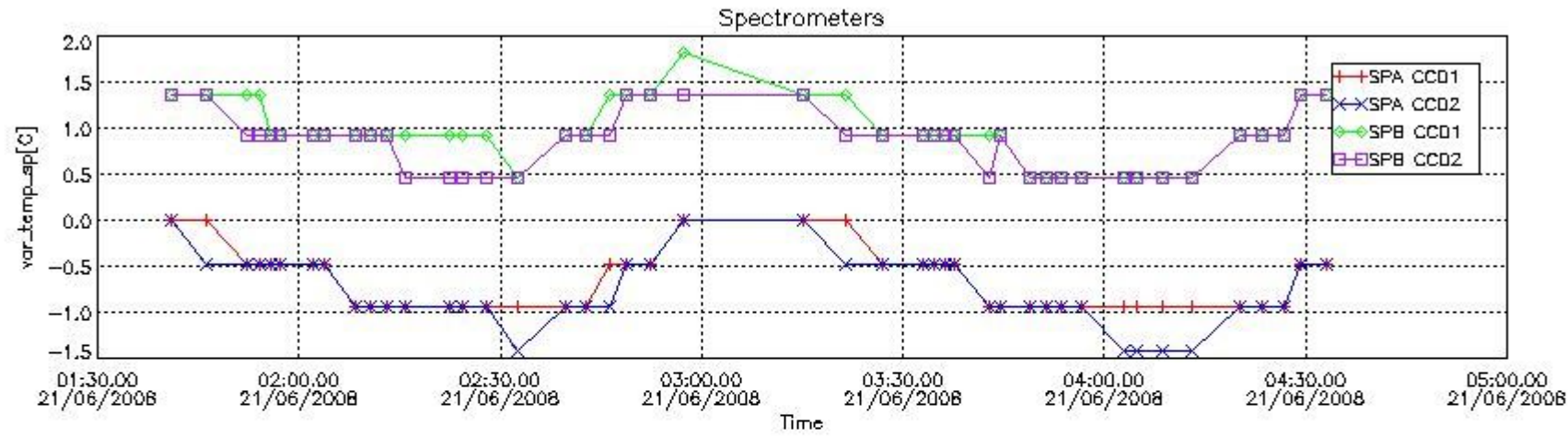
No missing products.

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_1PNPDE20080621_014056_000000492069_00361_32980_2951.N1	21-JUN-2008 01:40:56	Dark	49.000	63	Bet Gru	2.1500	2800.0	98	32980	No
2	GOM_TRA_1PNPDE20080621_014618_000000412069_00361_32980_2952.N1	21-JUN-2008 01:46:18	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	32980	No
3	GOM_TRA_1PNPDE20080621_015217_000000392069_00361_32980_2953.N1	21-JUN-2008 01:52:17	Straylight	38.500	147	Alp Ara	2.8770	26000.	77	32980	No
4	GOM_TRA_1PNPDE20080621_015403_000000412069_00361_32980_2954.N1	21-JUN-2008 01:54:03	Twilight_stray	40.500	40	The Sco	1.8590	7100.0	81	32980	No
5	GOM_TRA_1PNPDE20080621_015545_000000432069_00361_32980_2955.N1	21-JUN-2008 01:55:45	Twilight_stray	42.500	25	35Lam Sco	1.6200	28000.	85	32980	No
6	GOM_TRA_1PNPDE20080621_015705_000000592069_00361_32980_2956.N1	21-JUN-2008 01:57:05	Bright	59.000	116	19Del Sgr	2.7000	4100.0	118	32980	No
7	GOM_TRA_1PNPDE20080621_020209_000000382069_00361_32980_2957.N1	21-JUN-2008 02:02:09	Bright	38.000	86	35Eta Oph	2.4300	10200.	76	32980	No
8	GOM_TRA_1PNPDE20080621_020352_000000362069_00361_32980_2958.N1	21-JUN-2008 02:03:52	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	32980	No
9	GOM_TRA_1PNPDE20080621_020818_000000412069_00361_32980_2959.N1	21-JUN-2008 02:08:18	Bright	40.500	126	60Bet Oph	2.7700	4250.0	81	32980	No
10	GOM_TRA_1PNPDE20080621_021044_000000402069_00361_32980_2960.N1	21-JUN-2008 02:10:44	Bright	40.000	59	55Alp Oph	2.0800	8900.0	80	32980	No
11	GOM_TRA_1PNPDE20080621_021259_000000352069_00361_32980_2961.N1	21-JUN-2008 02:12:59	Bright	34.500	127	27Bet Her	2.7810	4700.0	69	32980	No
12	GOM_TRA_1PNPDE20080621_021554_000000362069_00361_32980_2962.N1	21-JUN-2008 02:15:54	Bright	35.500	133	40Zet Her	2.8070	6000.0	71	32980	No

13	GOM_TRA_1PNPDE20080621_022226_000000362069_00361_32980_2963.N1	21-JUN-2008 02:22:26	Bright	35.500	130	23Bet Dra	2.7990	5800.0	71	32980	No
14	GOM_TRA_1PNPDE20080621_022419_000000372069_00361_32980_2964.N1	21-JUN-2008 02:24:19	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	32980	No
15	GOM_TRA_1PNPDE20080621_022801_000000342069_00361_32980_2965.N1	21-JUN-2008 02:28:01	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	32980	No
16	GOM_TRA_1PNPDE20080621_023231_000000352069_00361_32980_2966.N1	21-JUN-2008 02:32:31	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	32980	No
17	GOM_TRA_1PNPDE20080621_023943_000000402069_00361_32980_3071.N1	21-JUN-2008 02:39:43	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	32980	No
18	GOM_TRA_1PNPDE20080621_024250_000000402069_00361_32980_3072.N1	21-JUN-2008 02:42:50	Bright	40.000	160	23Gam Per	2.9300	4700.0	80	32980	No
19	GOM_TRA_1PNPDE20080621_024616_000000432069_00361_32980_3073.N1	21-JUN-2008 02:46:16	Bright	42.500	73	57Gam1And	2.2600	13100.	85	32980	No
20	GOM_TRA_1PNPDE20080621_024839_000000452069_00361_32980_3074.N1	21-JUN-2008 02:48:39	Bright	44.500	173	4Bet Tri	3.0040	8900.0	89	32980	No
21	GOM_TRA_1PNPDE20080621_025225_000000522069_00361_32980_3075.N1	21-JUN-2008 02:52:25	Twilight	52.000	50	13Alp Ari	2.0070	4250.0	104	32980	No
22	GOM_TRA_1PNPDE20080621_025713_000000452069_00361_32980_3076.N1	21-JUN-2008 02:57:13	Dark	44.500	94	92Alp Cet	2.5260	3100.0	89	32980	No
23	GOM_TRA_1PNPDE20080621_031516_000000432069_00361_32980_3077.N1	21-JUN-2008 03:15:16	Dark	42.500	9	Alp Eri	0.45300	24000.	85	32980	No
24	GOM_TRA_1PNPDE20080621_032133_000000512069_00362_32981_3078.N1	21-JUN-2008 03:21:33	Dark	51.000	63	Bet Gru	2.1500	2800.0	102	32981	No
25	GOM_TRA_1PNPDE20080621_032654_000000432069_00362_32981_3079.N1	21-JUN-2008 03:26:54	Straylight	42.500	45	Alp Pav	1.9400	26000.	85	32981	No
26	GOM_TRA_1PNPDE20080621_033254_000000372069_00362_32981_3080.N1	21-JUN-2008 03:32:54	Straylight	37.000	147	Alp Ara	2.8770	26000.	74	32981	No
27	GOM_TRA_1PNPDE20080621_033440_000000402069_00362_32981_3081.N1	21-JUN-2008 03:34:40	Twilight	39.500	40	The Sco	1.8590	7100.0	79	32981	No
28	GOM_TRA_1PNPDE20080621_033621_000000392069_00362_32981_3082.N1	21-JUN-2008 03:36:21	Twilight	39.000	25	35Lam Sco	1.6200	28000.	78	32981	No
29	GOM_TRA_1PNPDE20080621_033741_000000482069_00362_32981_3083.N1	21-JUN-2008 03:37:41	Twilight	47.500	116	19Del Sgr	2.7000	4100.0	95	32981	No
30	GOM_TRA_1PNPDE20080621_034245_000000382069_00362_32981_3084.N1	21-JUN-2008 03:42:45	Bright	37.500	86	35Eta Oph	2.4300	10200.	75	32981	No
31	GOM_TRA_1PNPDE20080621_034429_000000362069_00362_32981_3085.N1	21-JUN-2008 03:44:29	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	32981	No
32	GOM_TRA_1PNPDE20080621_034854_000000412069_00362_32981_3086.N1	21-JUN-2008 03:48:54	Bright	40.500	126	60Bet Oph	2.7700	4250.0	81	32981	No
33	GOM_TRA_1PNPDE20080621_035120_000000392069_00362_32981_3087.N1	21-JUN-2008 03:51:20	Bright	39.000	59	55Alp Oph	2.0800	8900.0	78	32981	No
34	GOM_TRA_1PNPDE20080621_035335_000000372069_00362_32981_3088.N1	21-JUN-2008 03:53:35	Bright	36.500	127	27Bet Her	2.7810	4700.0	73	32981	No
35	GOM_TRA_1PNPDE20080621_035630_000000372069_00362_32981_3089.N1	21-JUN-2008 03:56:30	Bright	37.000	133	40Zet Her	2.8070	6000.0	74	32981	No
36	GOM_TRA_1PNPDE20080621_040302_000000382069_00362_32981_3090.N1	21-JUN-2008 04:03:02	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	32981	No
37	GOM_TRA_1PNPDE20080621_040455_000000372069_00362_32981_3091.N1	21-JUN-2008 04:04:55	Bright	36.500	119	14Eta Dra	2.7270	4700.0	73	32981	No
38	GOM_TRA_1PNPDE20080621_040837_000000332069_00362_32981_3092.N1	21-JUN-2008 04:08:37	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	32981	No
39	GOM_TRA_1PNPDE20080621_041307_000000352069_00362_32981_3093.N1	21-JUN-2008 04:13:07	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	32981	No
40	GOM_TRA_1PNPDE20080621_042019_000000612069_00362_32981_3231.N1	21-JUN-2008 04:20:19	Bright	61.000	76	27Gam Cas	2.3000	30000.	122	32981	No
41	GOM_TRA_1PNPDE20080621_042326_000000362069_00362_32981_3232.N1	21-JUN-2008 04:23:26	Bright	36.000	160	23Gam Per	2.9300	4700.0	72	32981	No
42	GOM_TRA_1PNPDE20080621_042652_000000422069_00362_32981_3233.N1	21-JUN-2008 04:26:52	Bright	42.000	73	57Gam1And	2.2600	13100.	84	32981	No
43	GOM_TRA_1PNPDE20080621_042915_000000442069_00362_32981_3234.N1	21-JUN-2008 04:29:15	Twilight	44.000	173	4Bet Tri	3.0040	8900.0	88	32981	No
44	GOM_TRA_1PNPDE20080621_043301_000000512069_00362_32981_3235.N1	21-JUN-2008 04:33:01	Twilight	51.000	50	13Alp Ari	2.0070	4250.0	102	32981	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).

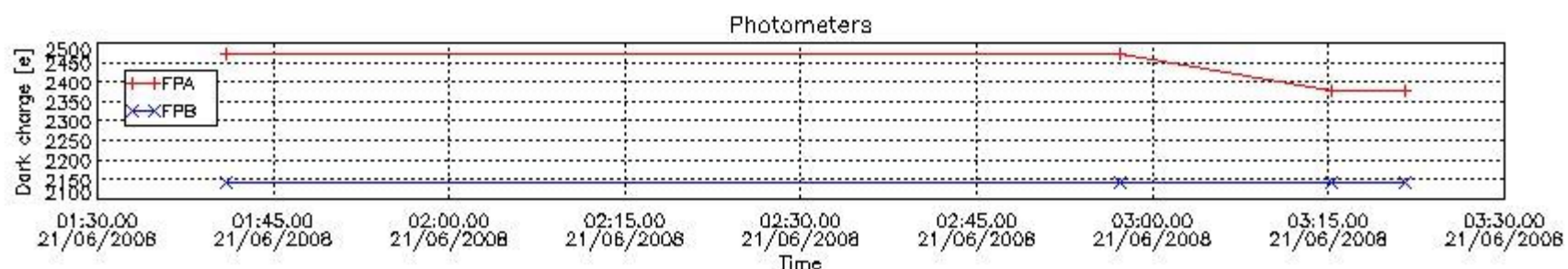
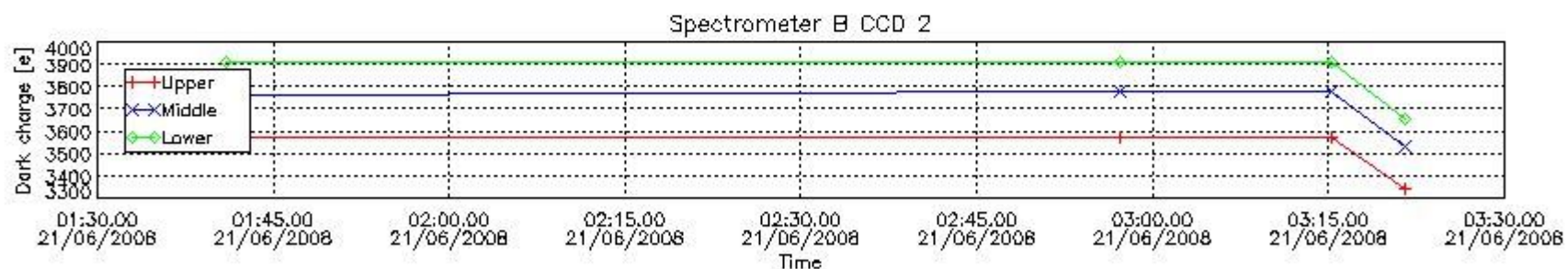
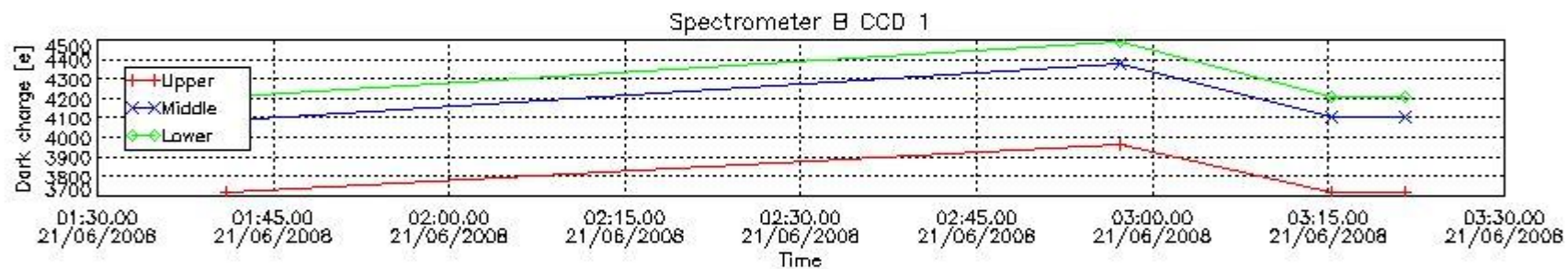
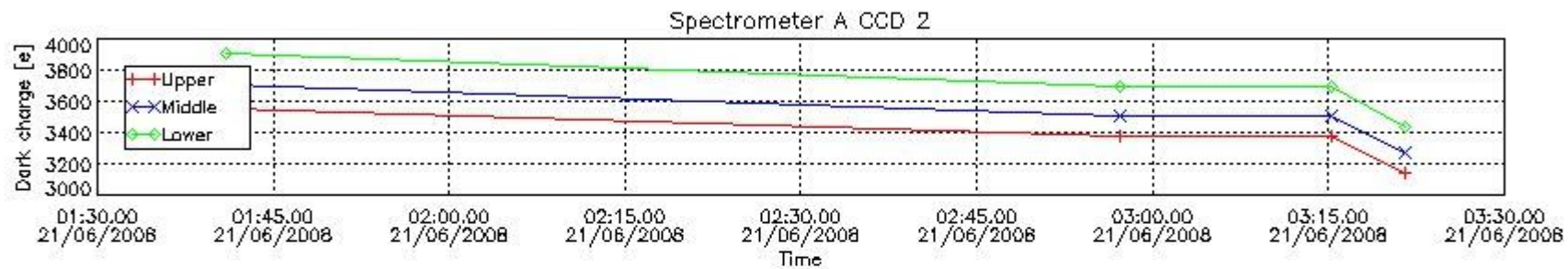
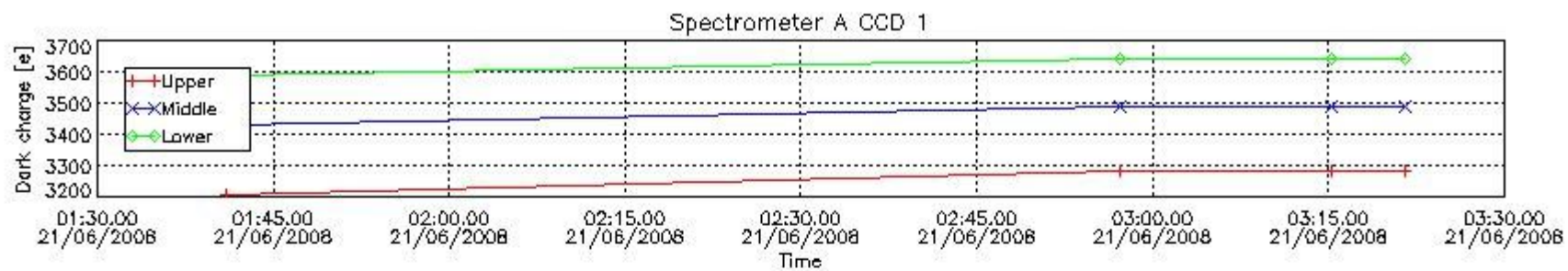
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20080621_014056_000000492069_00361_32980_2951.N1	DC map used
GOM_TRA_1PNPDE20080621_014618_000000412069_00361_32980_2952.N1	DC map used
GOM_TRA_1PNPDE20080621_015217_000000392069_00361_32980_2953.N1	DC map used
GOM_TRA_1PNPDE20080621_015403_000000412069_00361_32980_2954.N1	DC map used
GOM_TRA_1PNPDE20080621_015545_000000432069_00361_32980_2955.N1	DC map used
GOM_TRA_1PNPDE20080621_015705_000000592069_00361_32980_2956.N1	DC map used
GOM_TRA_1PNPDE20080621_020209_000000382069_00361_32980_2957.N1	DC map used
GOM_TRA_1PNPDE20080621_020352_000000362069_00361_32980_2958.N1	DC map used
GOM_TRA_1PNPDE20080621_020818_000000412069_00361_32980_2959.N1	DC map used
GOM_TRA_1PNPDE20080621_021044_000000402069_00361_32980_2960.N1	DC map used
GOM_TRA_1PNPDE20080621_021259_000000352069_00361_32980_2961.N1	DC map used
GOM_TRA_1PNPDE20080621_021554_000000362069_00361_32980_2962.N1	DC map used
GOM_TRA_1PNPDE20080621_022226_000000362069_00361_32980_2963.N1	DC map used
GOM_TRA_1PNPDE20080621_022419_000000372069_00361_32980_2964.N1	DC map used

GOM_TRA_1PNPDE20080621_022801_000000342069_00361_32980_2965.N1	DC map used
GOM_TRA_1PNPDE20080621_023231_000000352069_00361_32980_2966.N1	DC map used

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



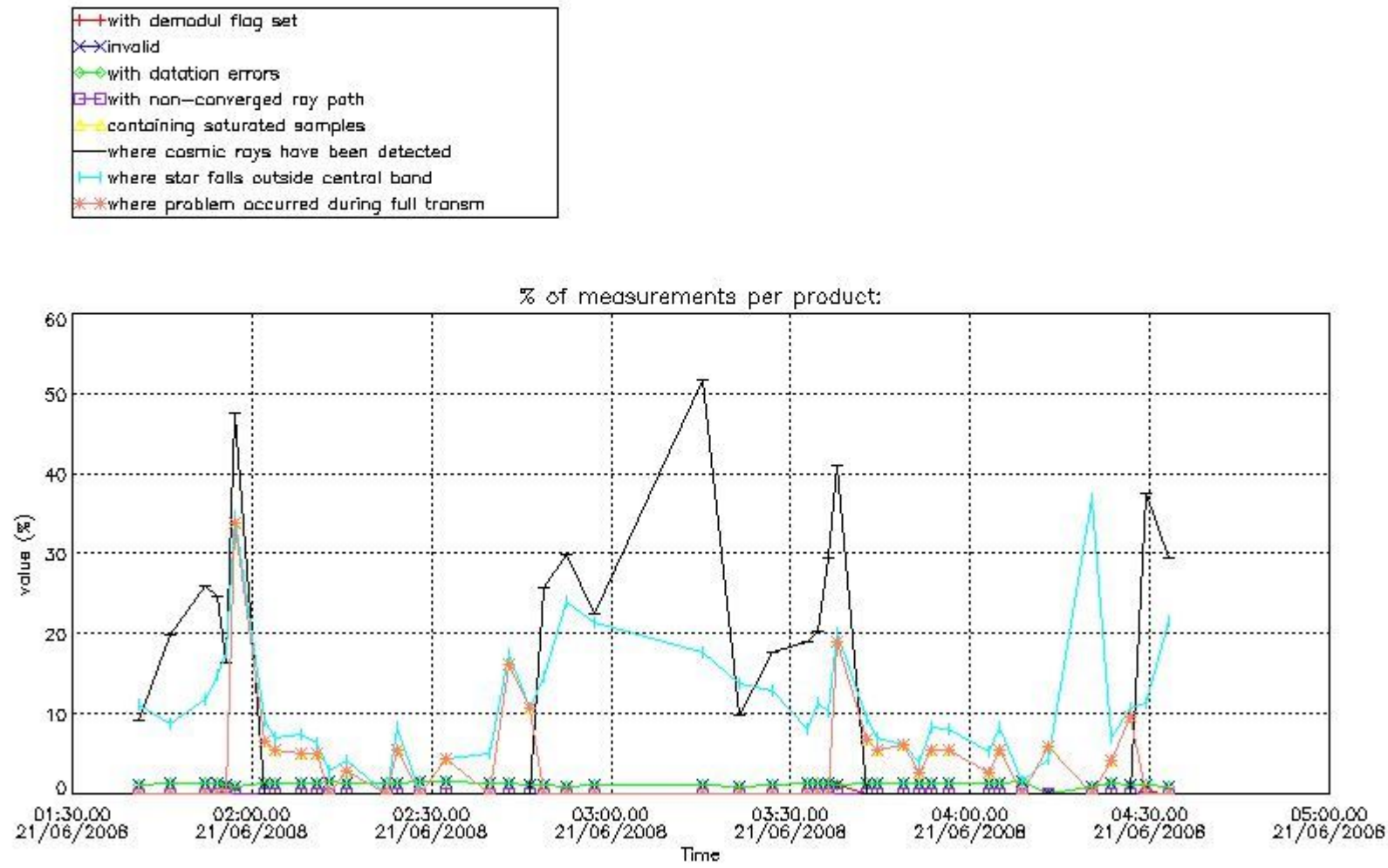
5. Demodulation flag and quality information monitoring

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.

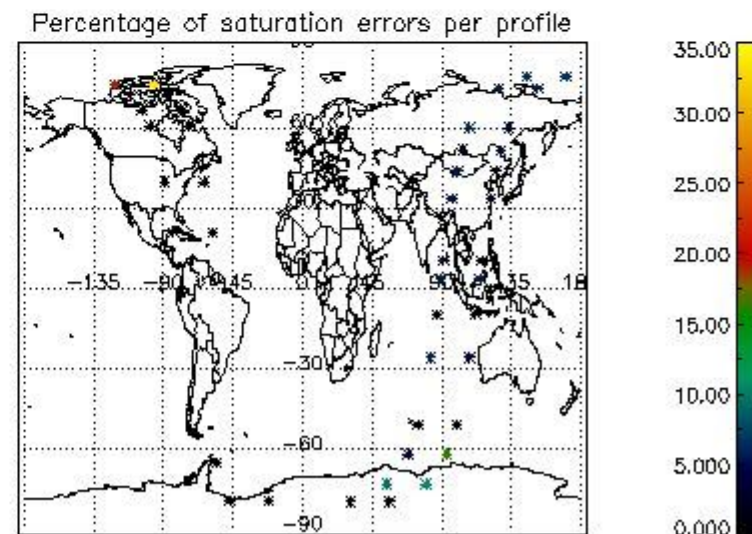
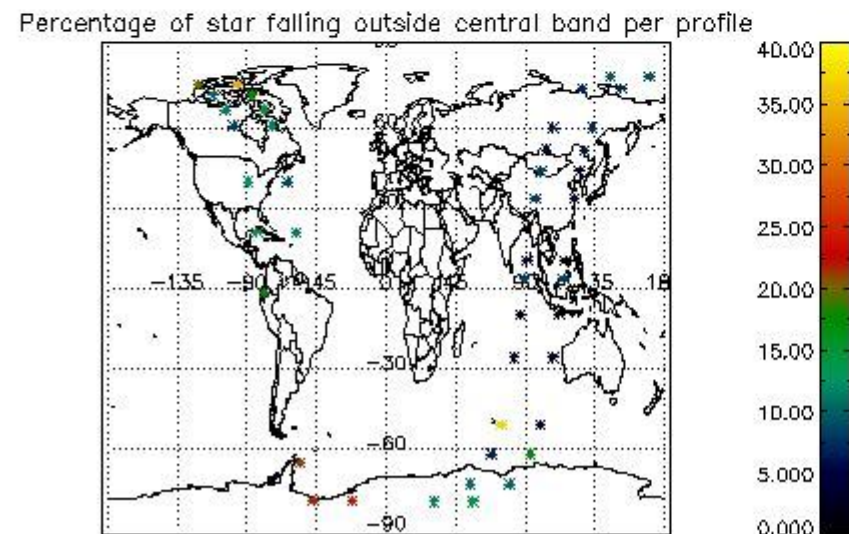
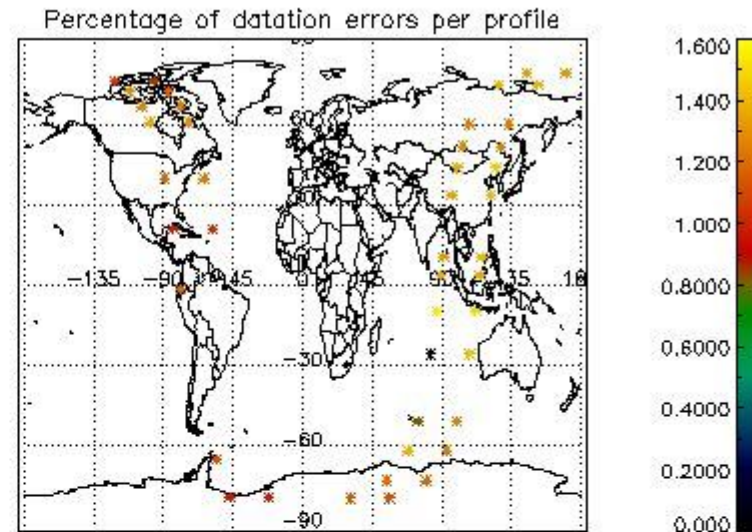
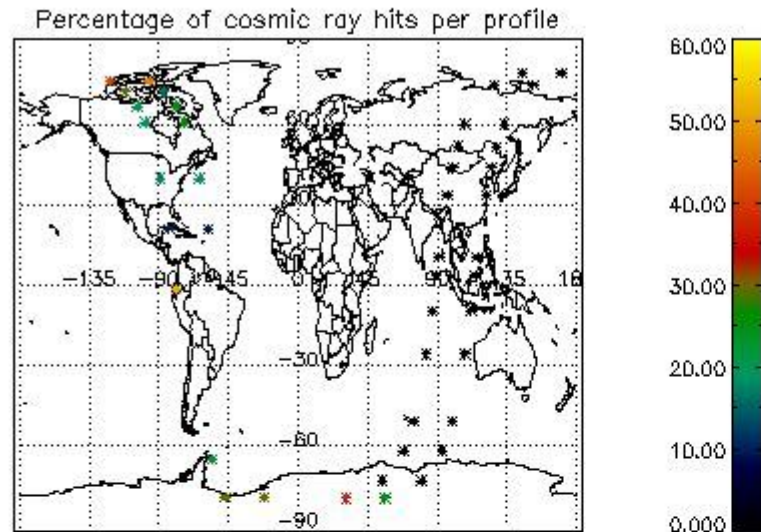
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	18.1818 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



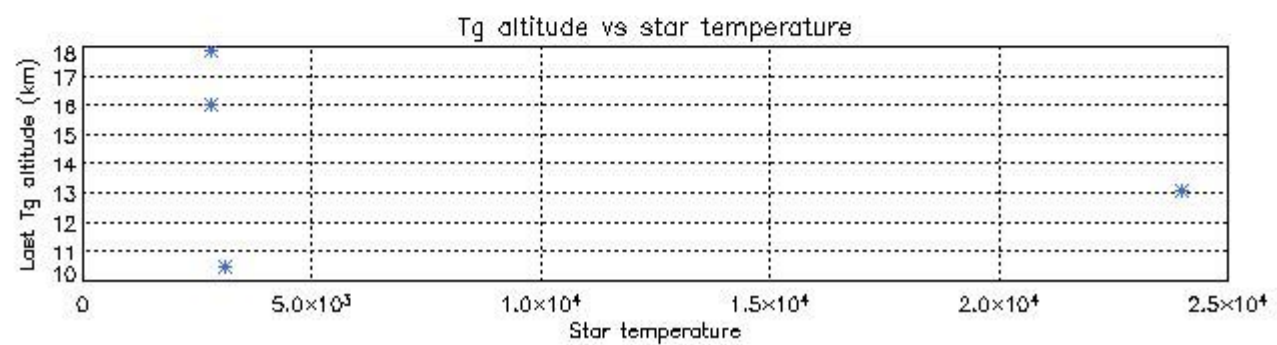
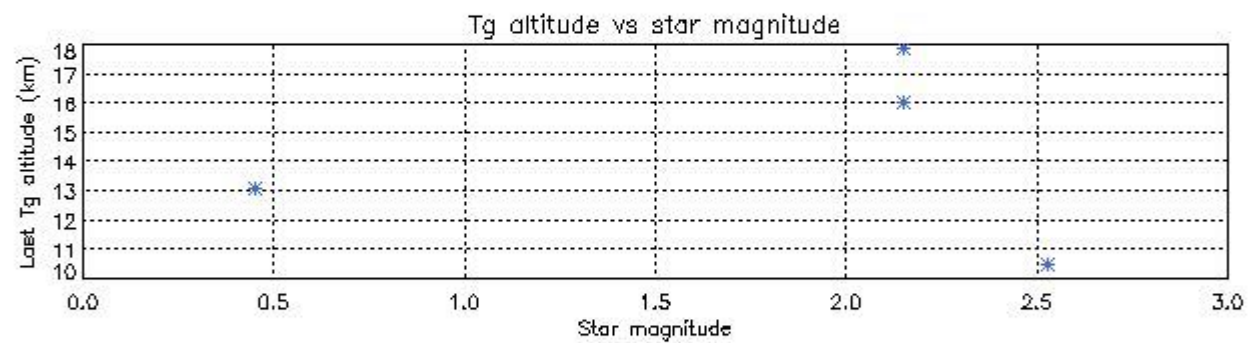
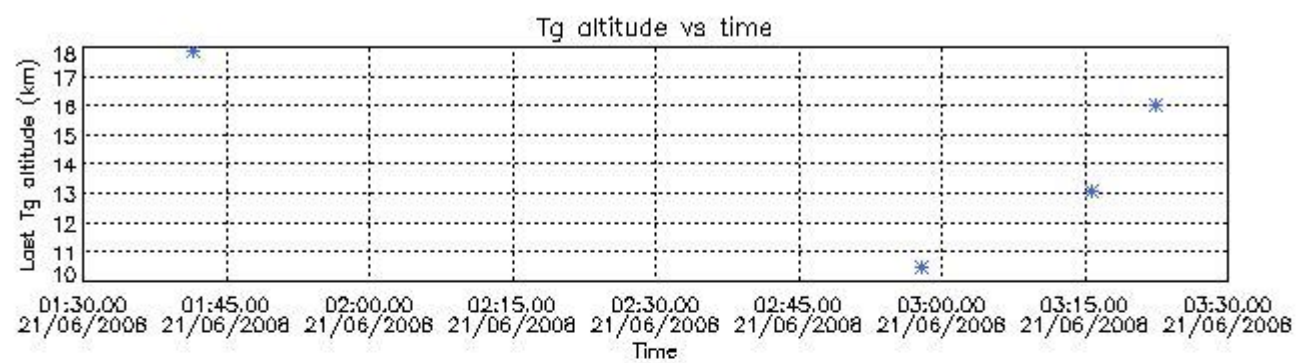
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.374	19.978	10.276
St. deviation:	3.2519	5.4659	0.56062
Maximum:	17.894	27.995	10.672
Minimum:	10.508	3.6343	9.8793
Number of data:	4.0000	28.000	2.0000

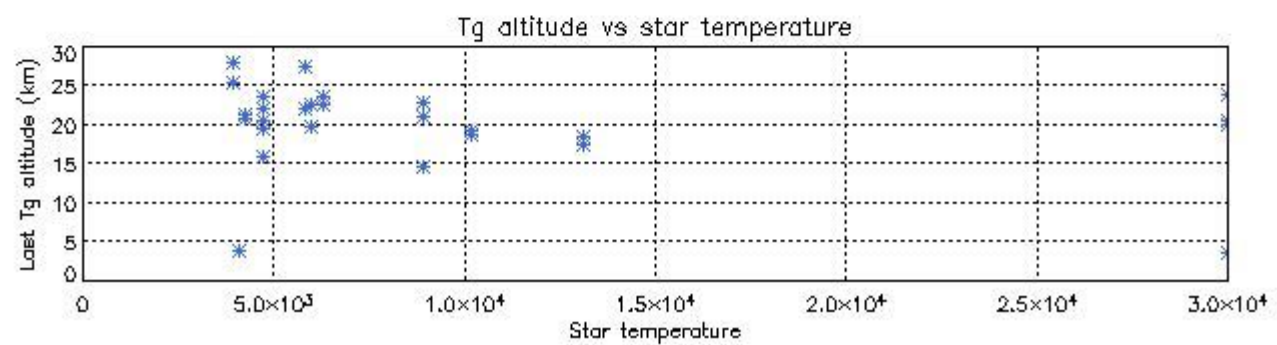
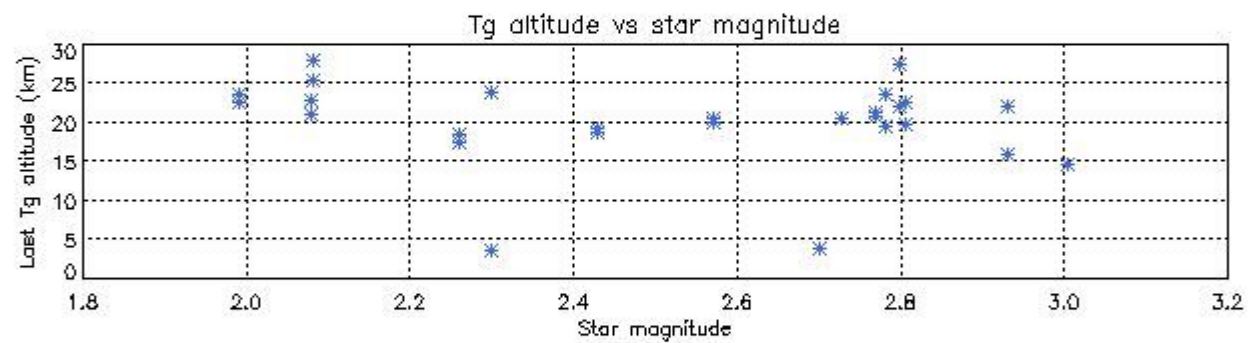
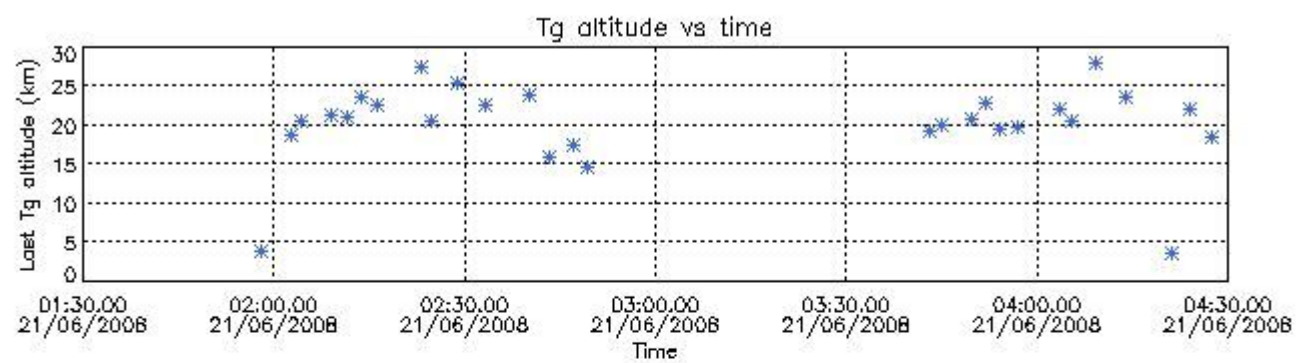
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



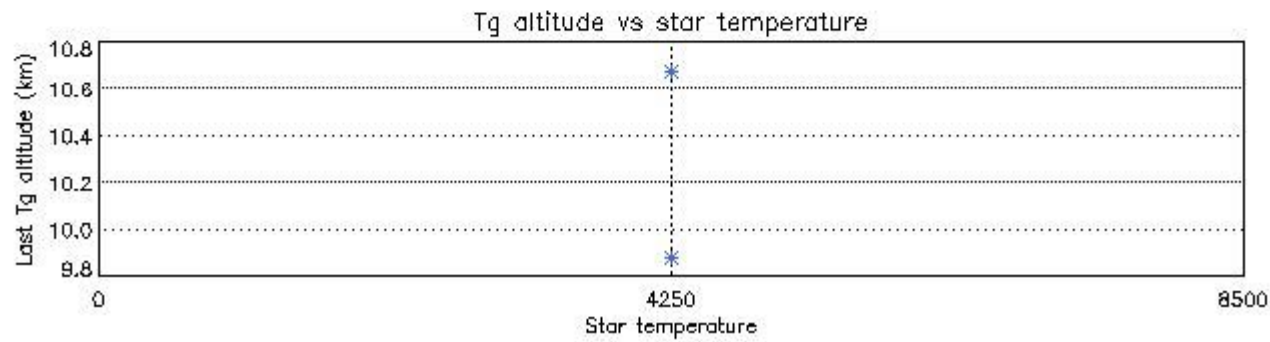
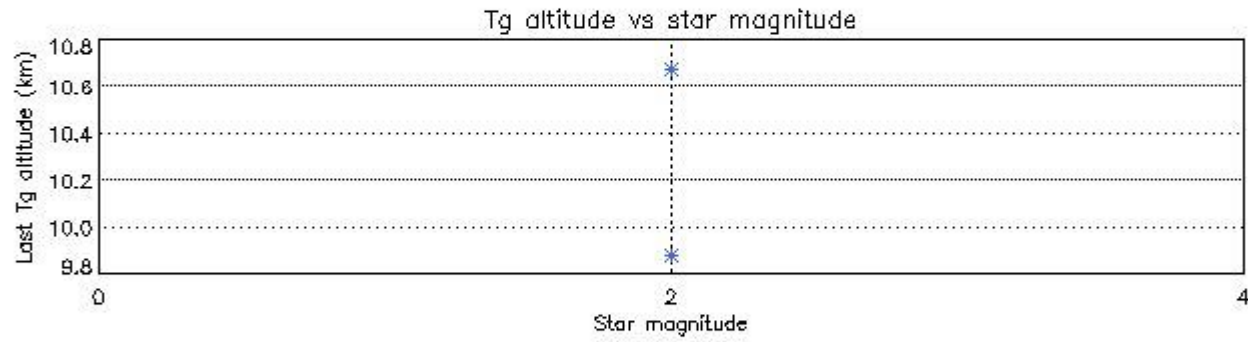
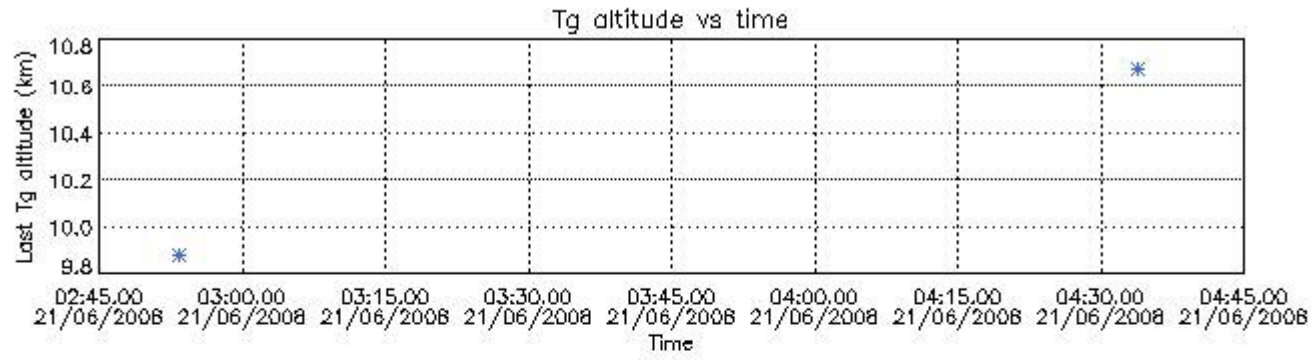
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

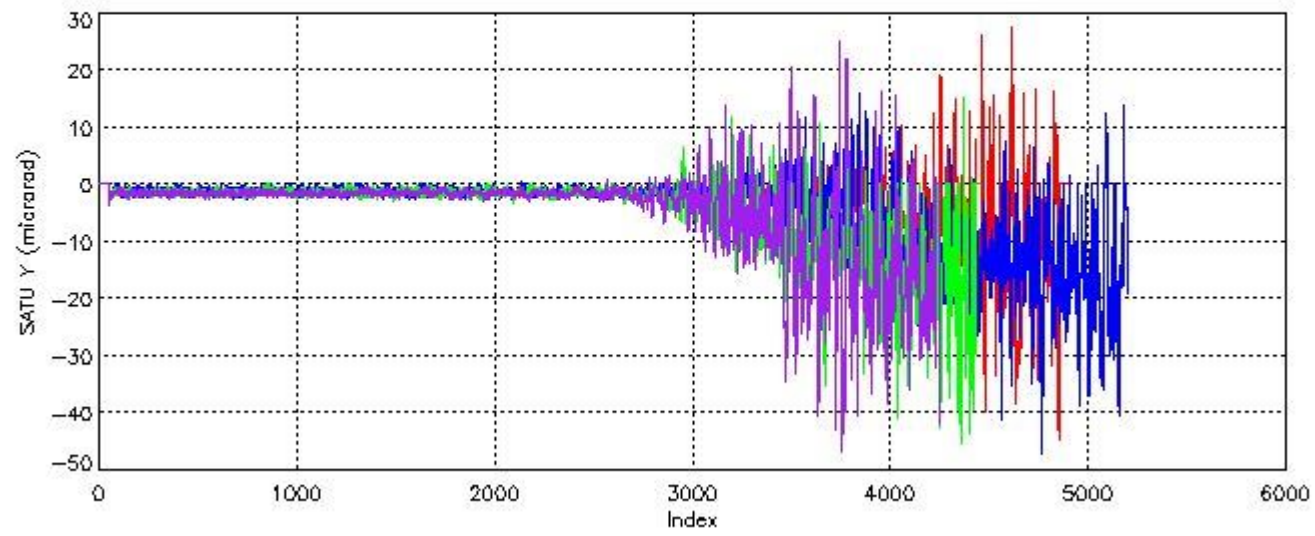
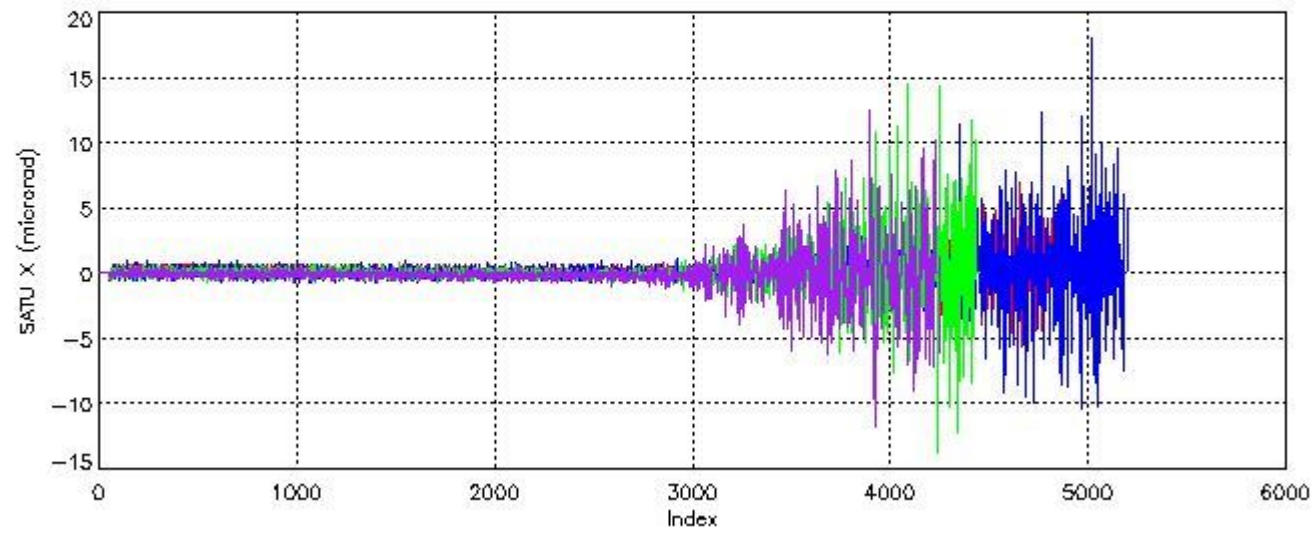


7. Star Acquisition and Tracking Unit (SATU)

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:	0.19360	-1.2943	0.17142	-1.3482
St. deviation:	0.18594	0.46492	0.75872	1.1973
Maximum:	0.90000	1.4664E-14	5.0000	4.0000
Minimum:	-0.80000	-3.7000	-3.7000	-6.7000

Number of data:	4000.0	4000.0	24000.	24000.
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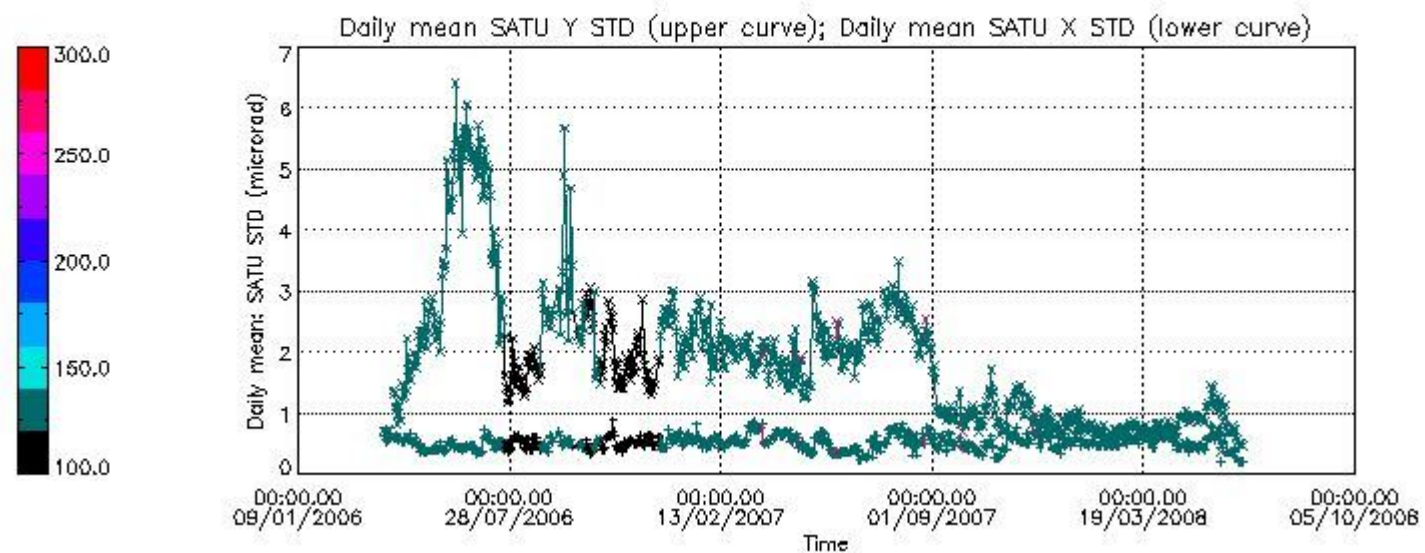
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

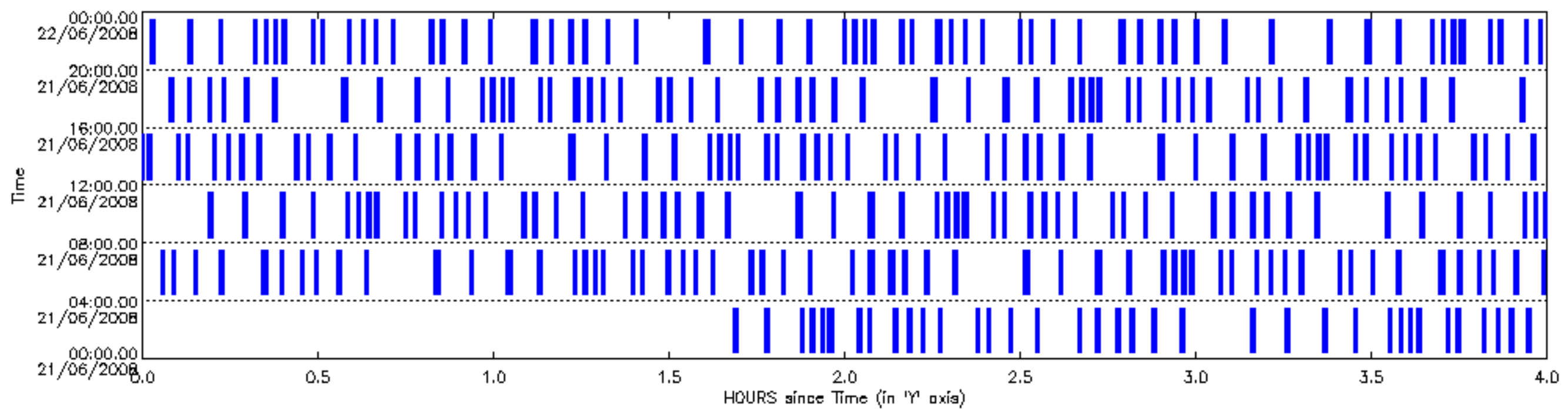
Lower curve: STD of SATU X axis

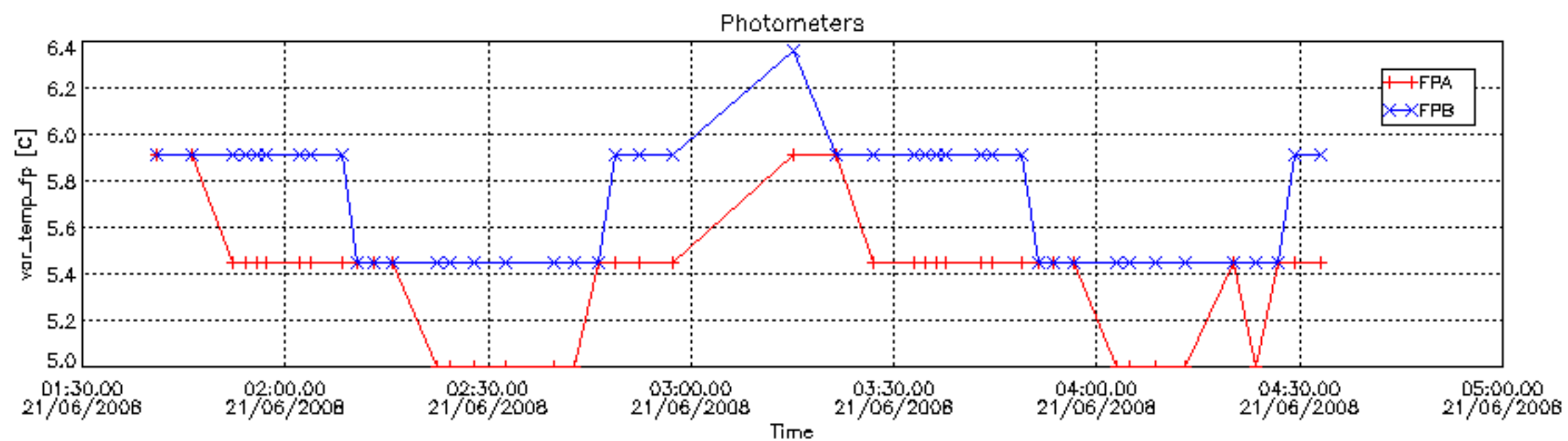
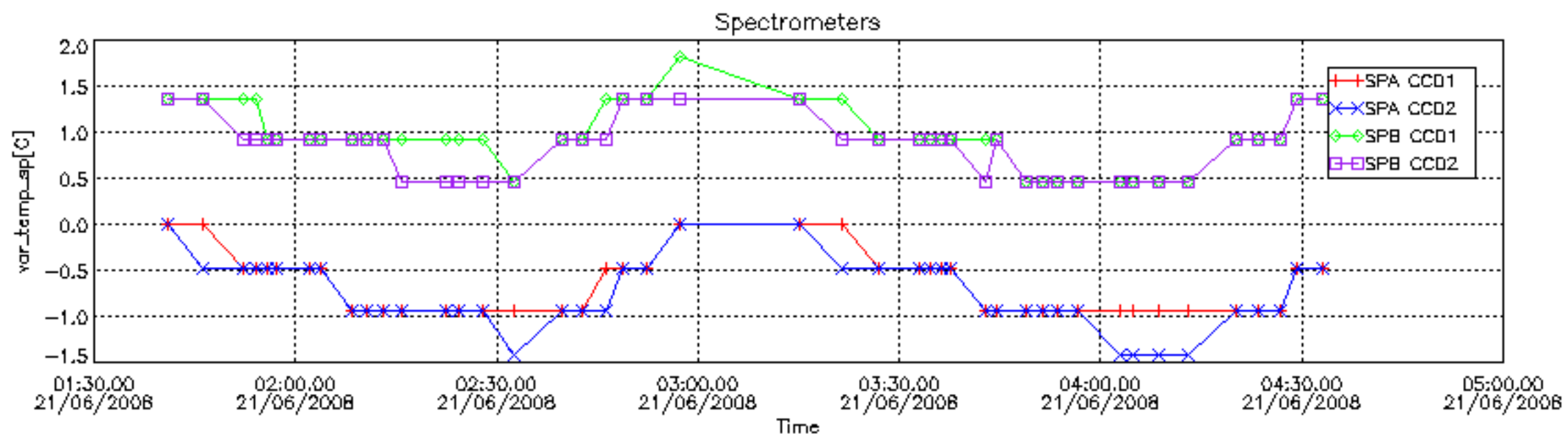


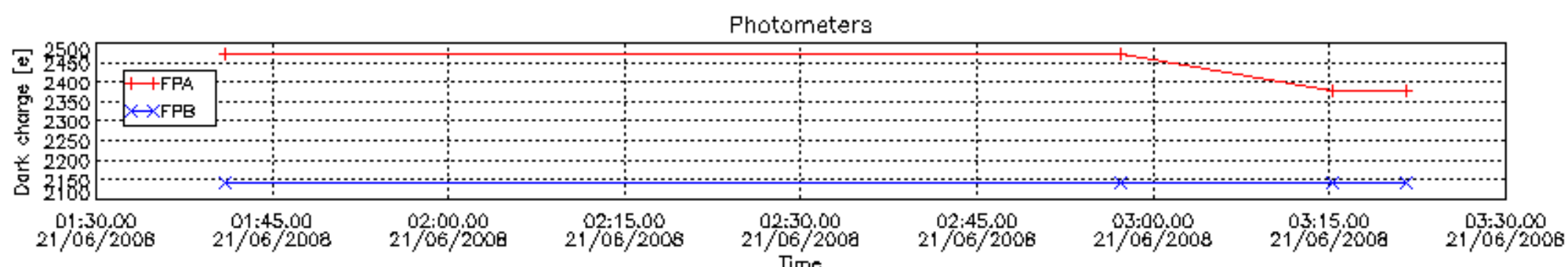
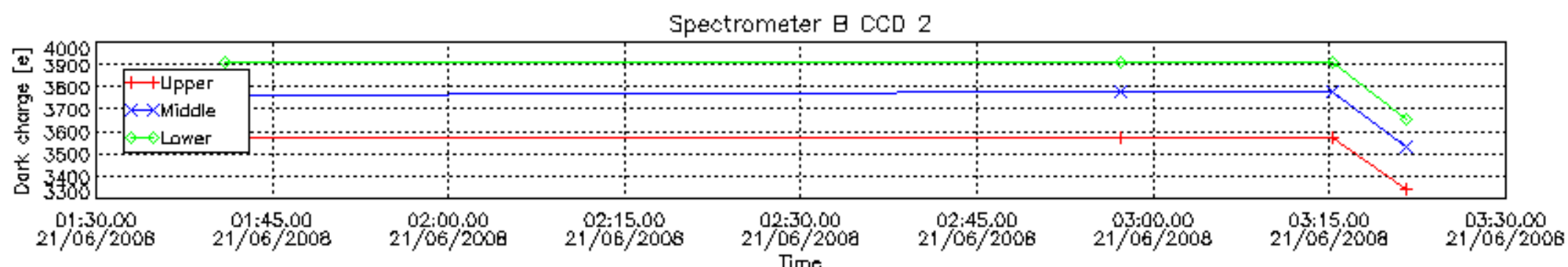
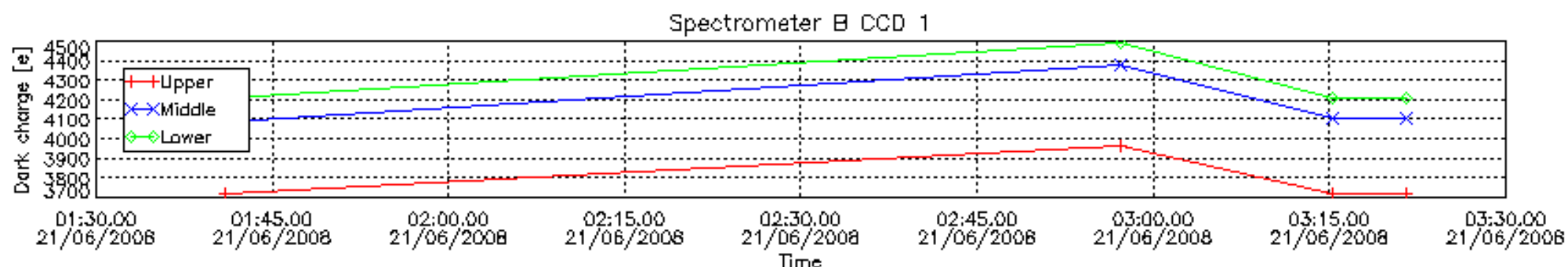
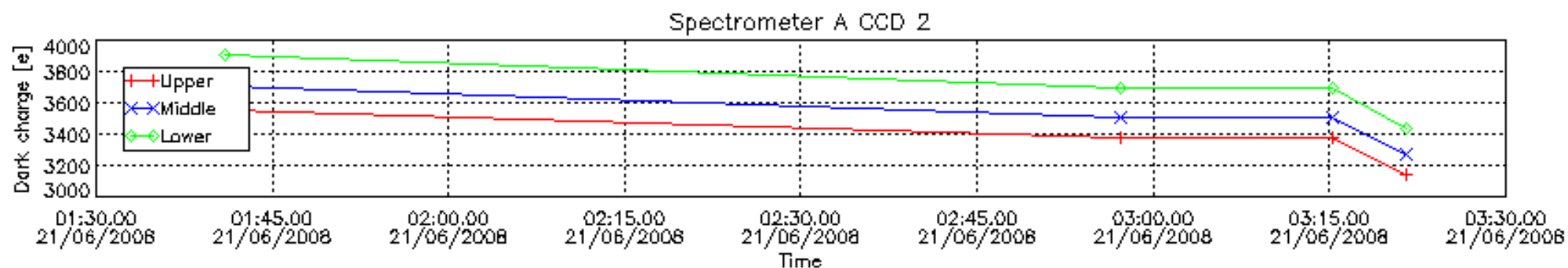
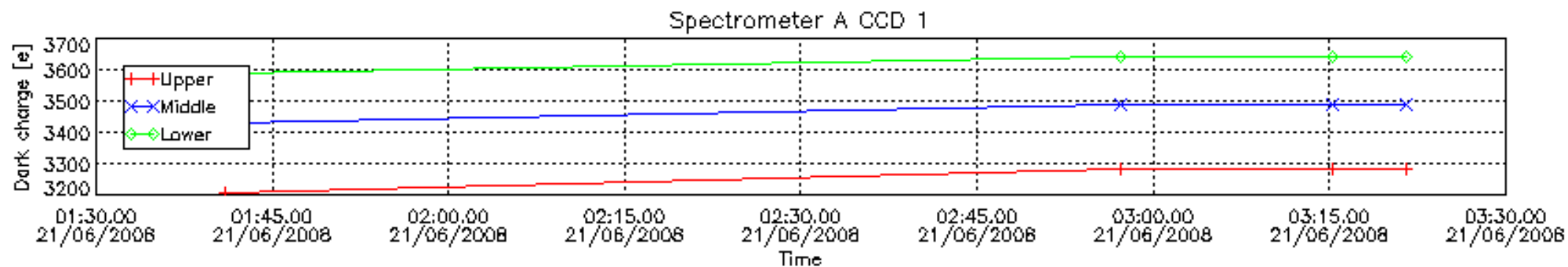
8. Auxiliary Data Files used for the production reported in section 2.4

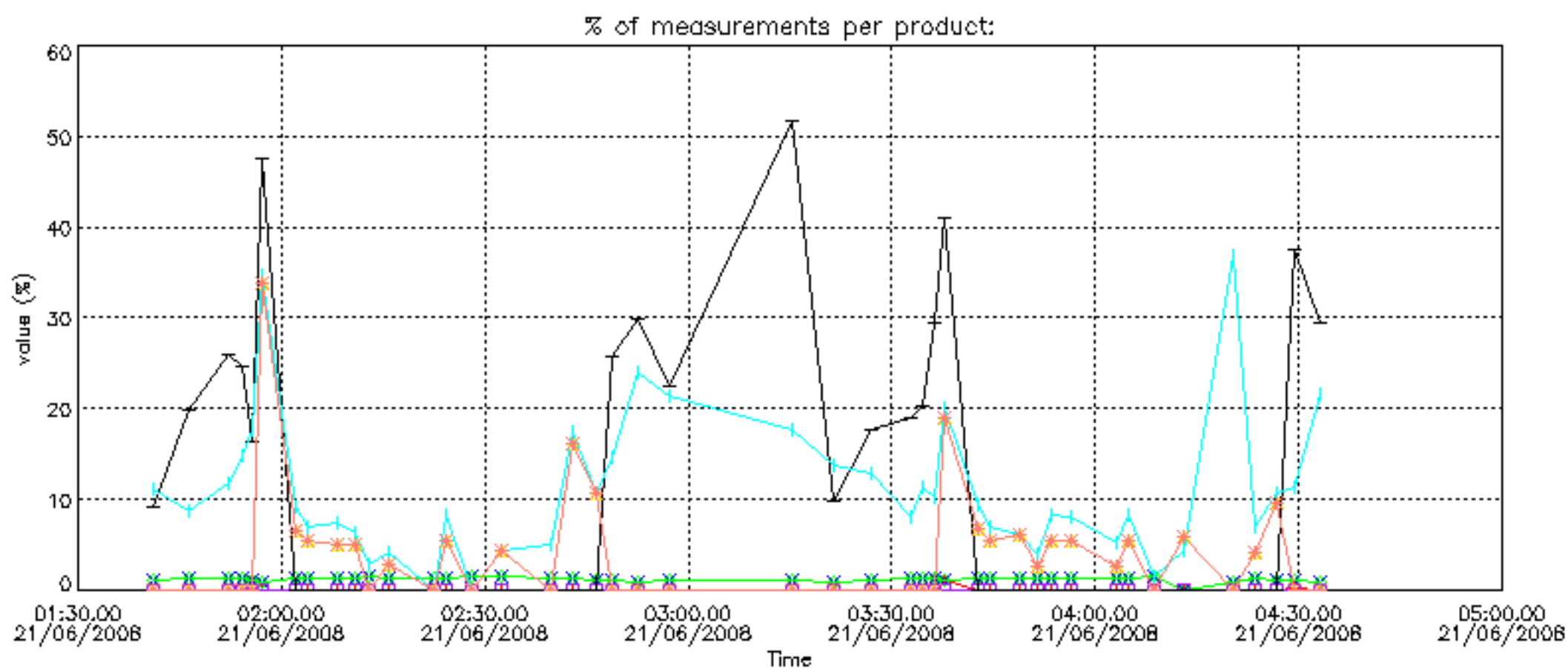
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	21-JUN-2008 01:40:56
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080620_084614_20080617_000000_20100101_000000	1	21-JUN-2008 01:40:56
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	21-JUN-2008 01:40:56
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	21-JUN-2008 01:40:56
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	21-JUN-2008 01:40:56
ECMWF_FILE	AUX_ECF_AXNECM20080620_072112_20080620_210000_20080621_090000	1	21-JUN-2008 01:40:56
ECMWF_FILE	AUX_ECF_AXNECM20080620_192115_20080621_030000_20080621_150000	40	21-JUN-2008 04:20:19
OPTIONAL_ECMWF_FILE	MISSING	1	21-JUN-2008 01:40:56
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080620_220022_000057382069_00358_32977_5779.N1	1	21-JUN-2008 01:40:56
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20080620_010110_20080619_192419_20080629_205032	40	21-JUN-2008 04:20:19

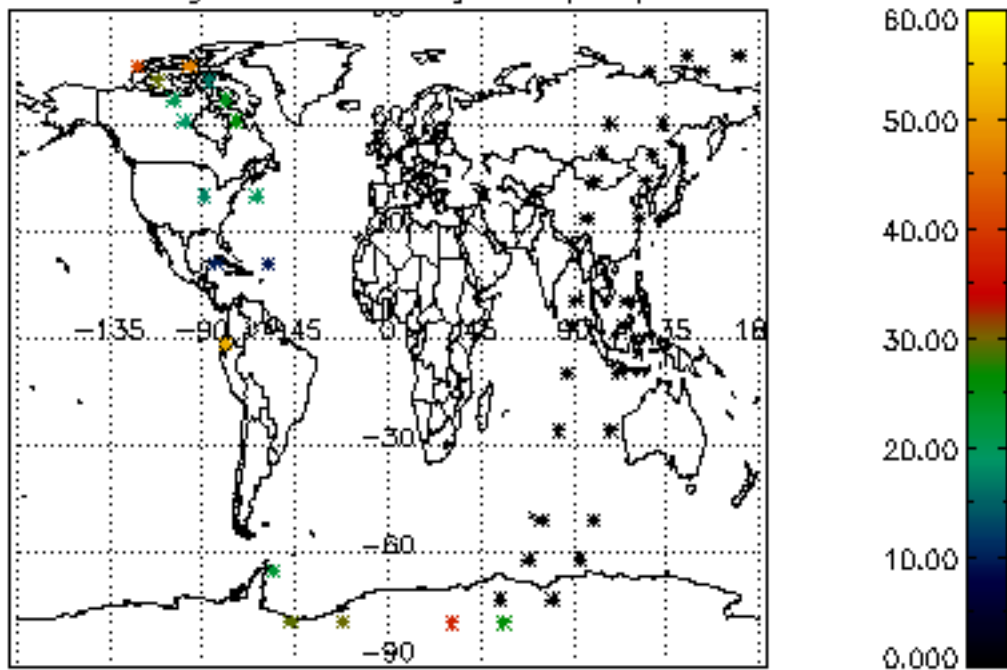




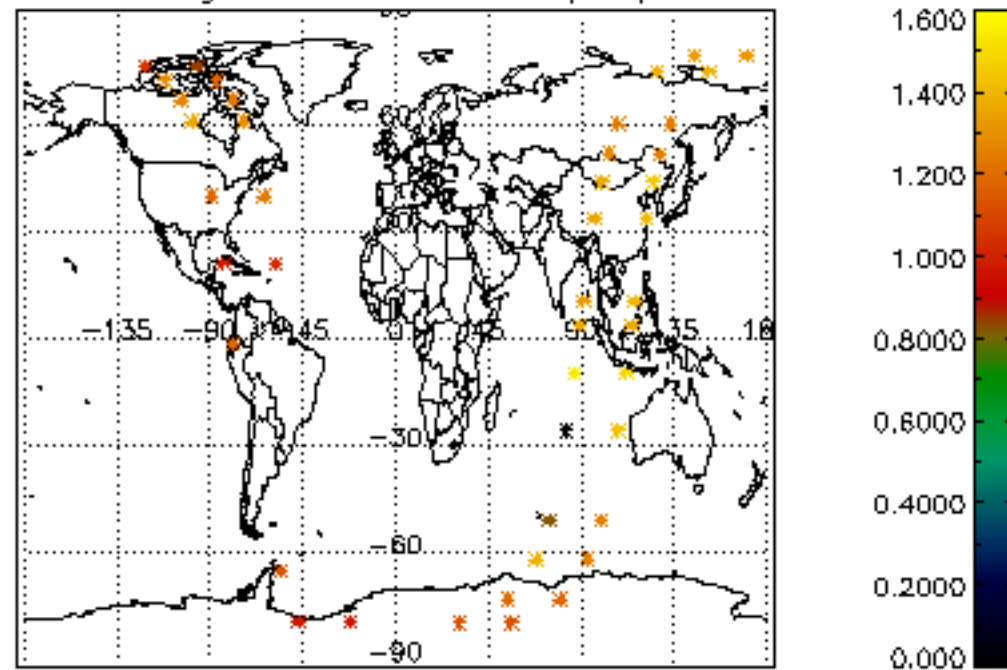




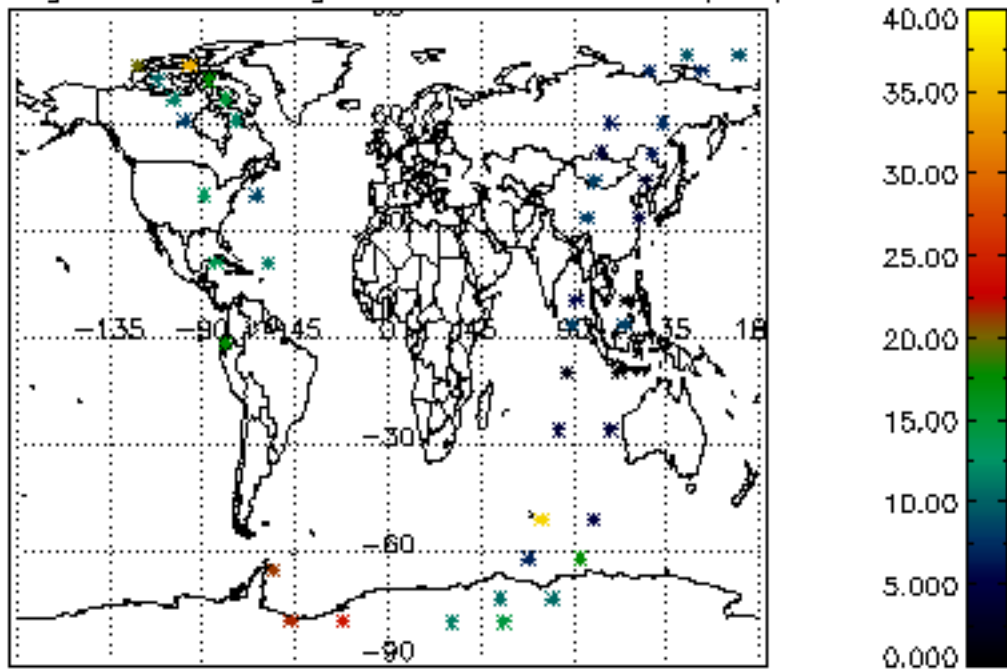
Percentage of cosmic ray hits per profile



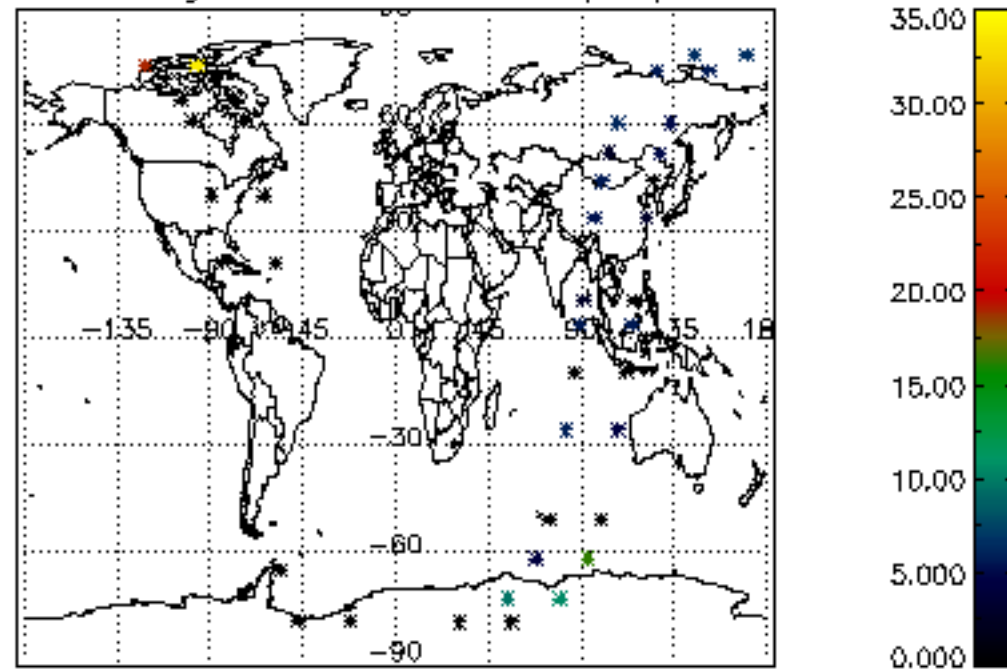
Percentage of datation errors per profile



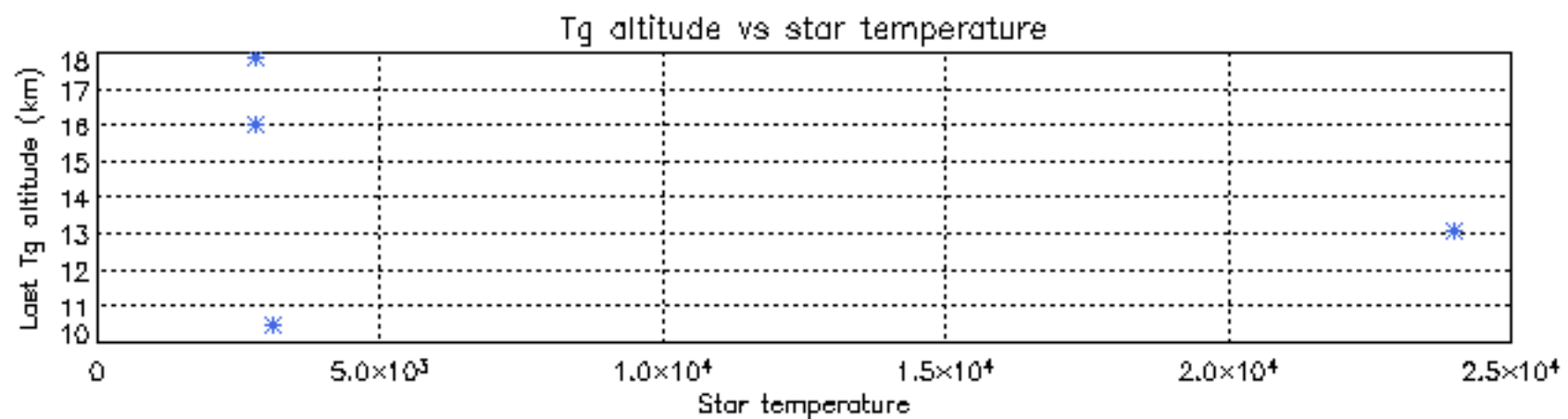
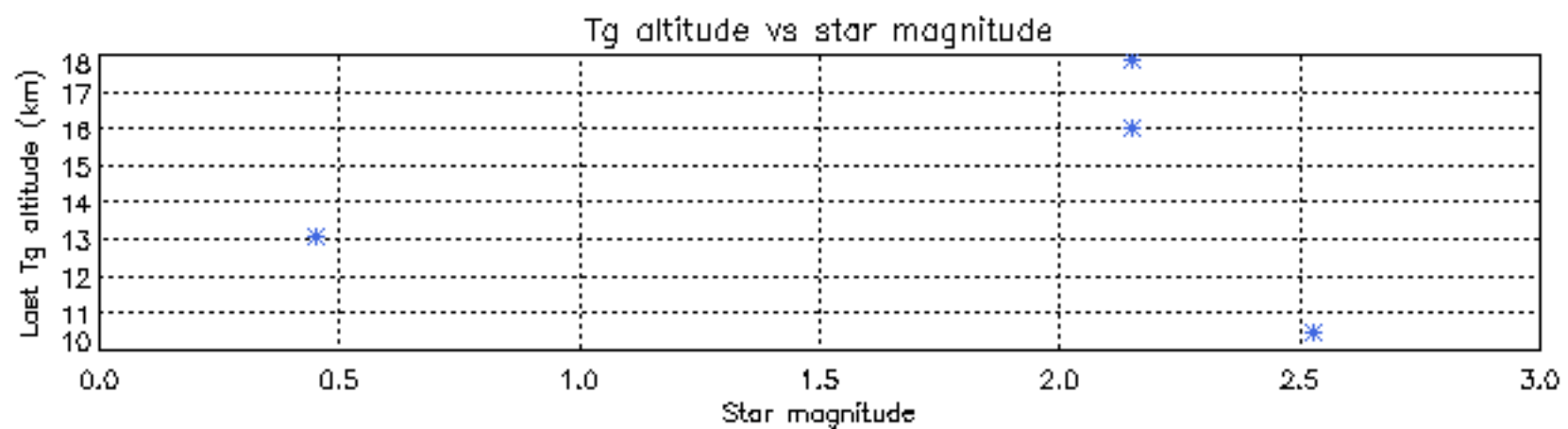
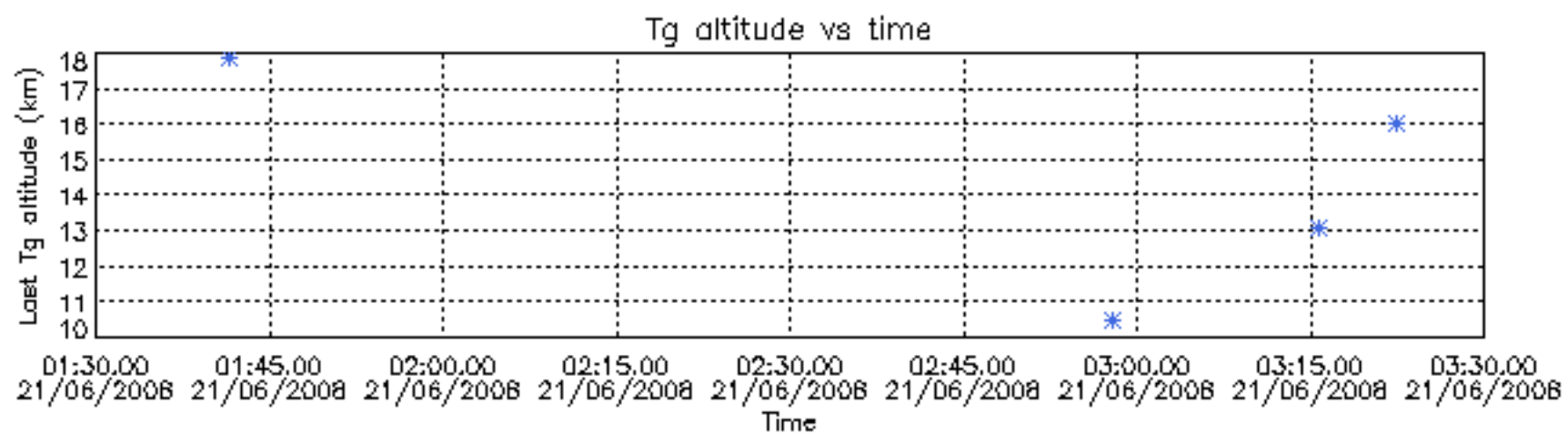
Percentage of star falling outside central band per profile



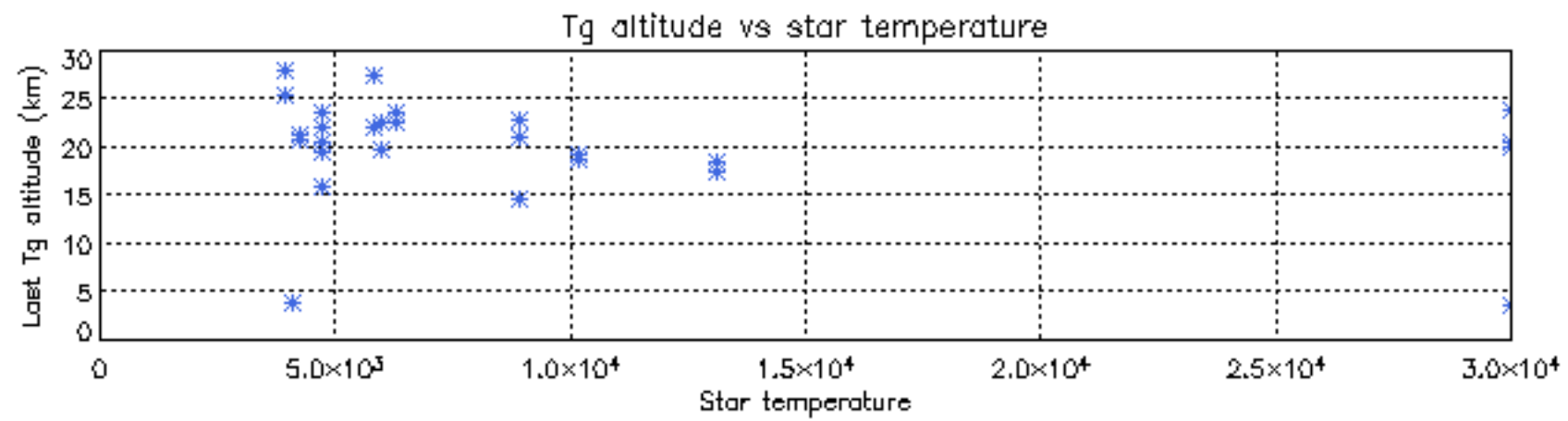
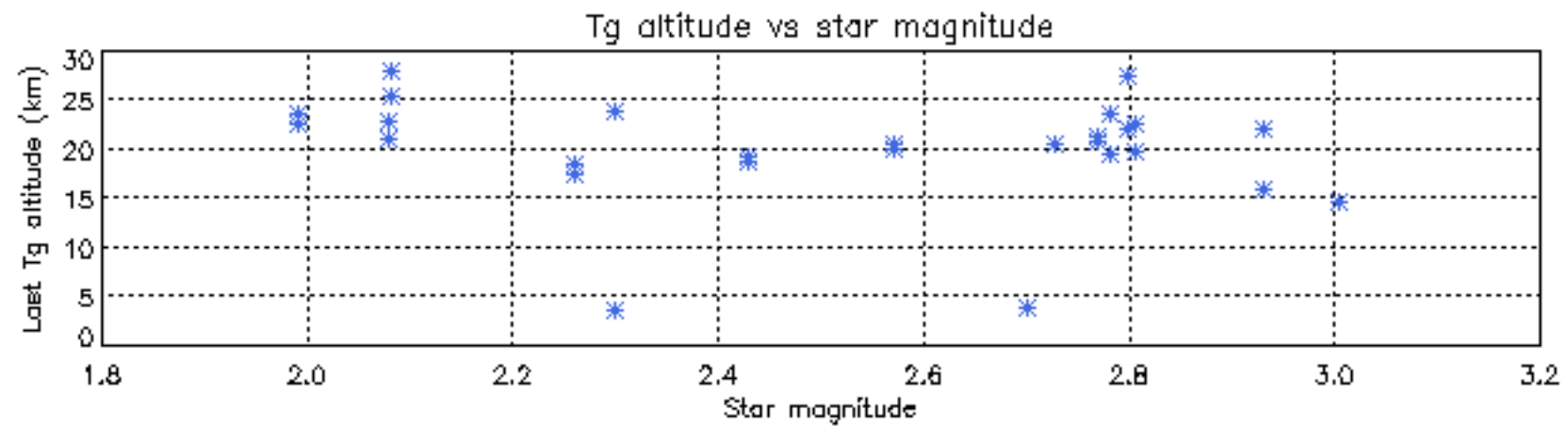
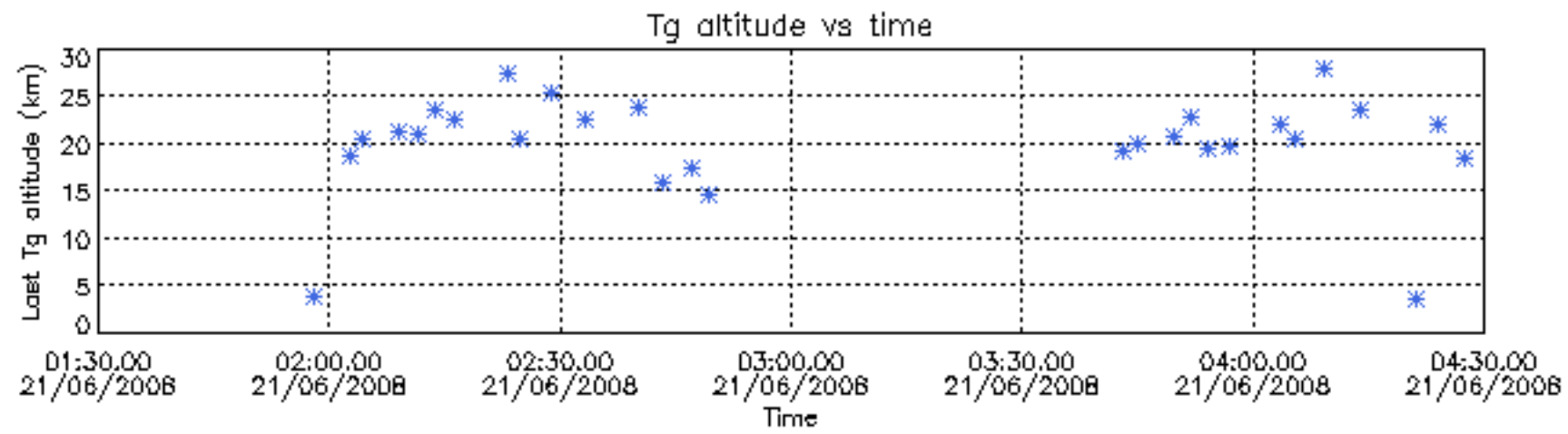
Percentage of saturation errors per profile



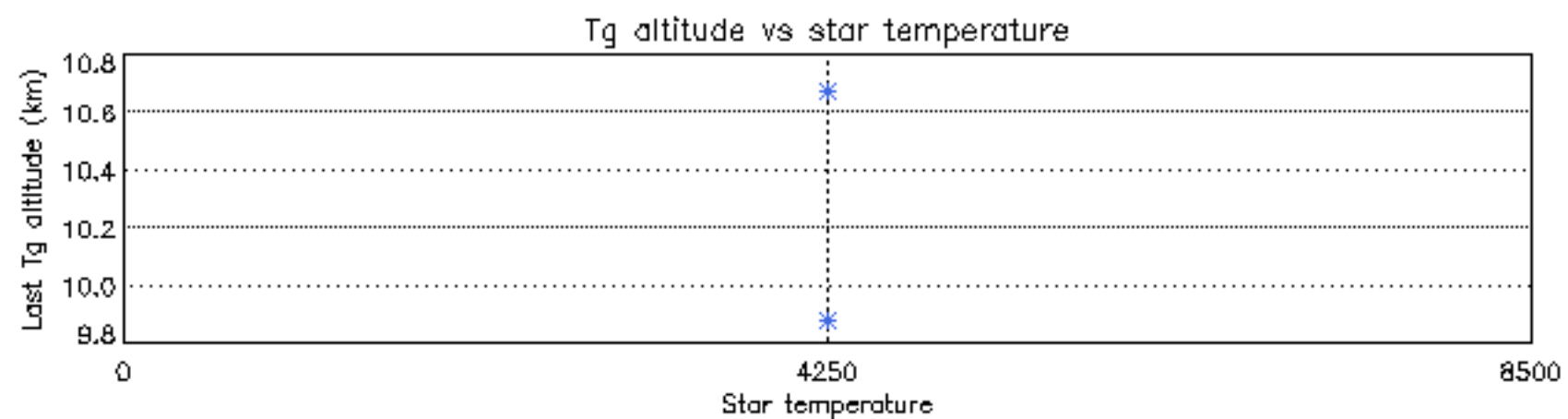
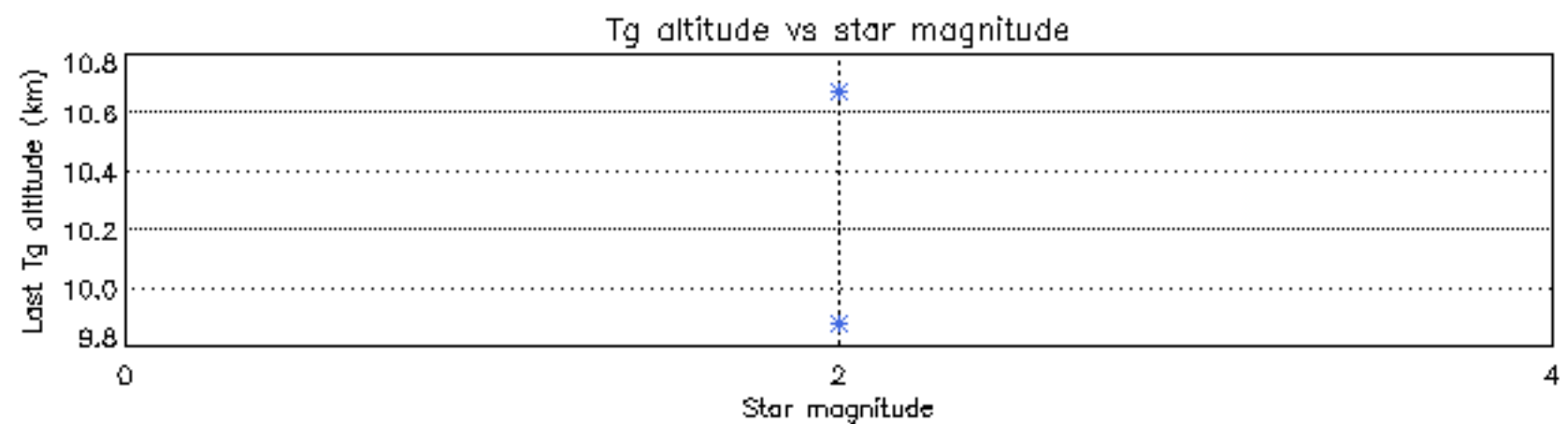
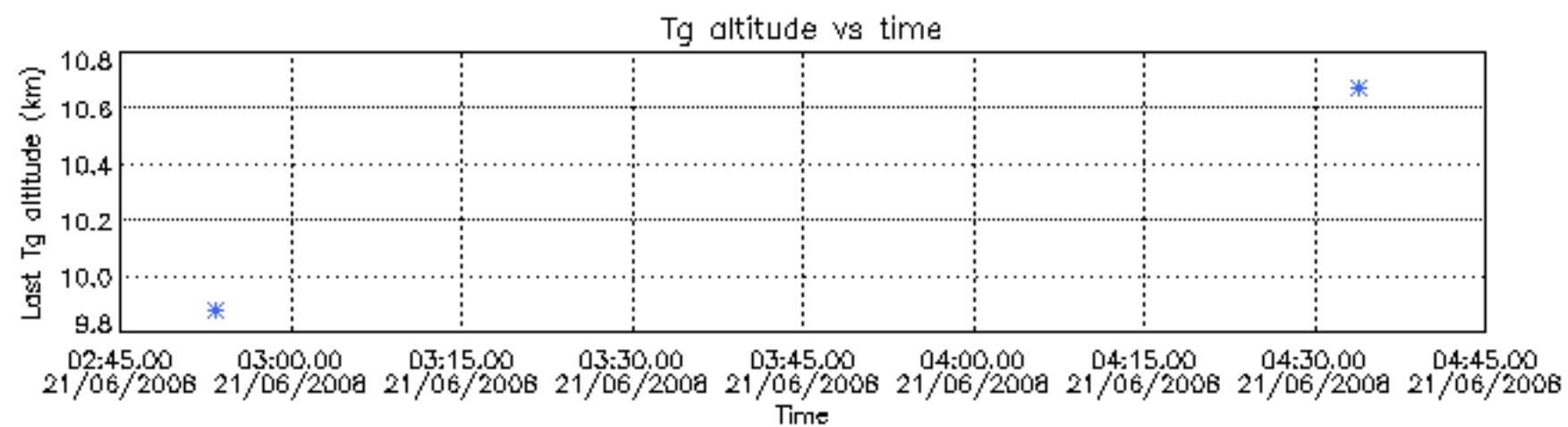
Tangent altitude at which the star is lost

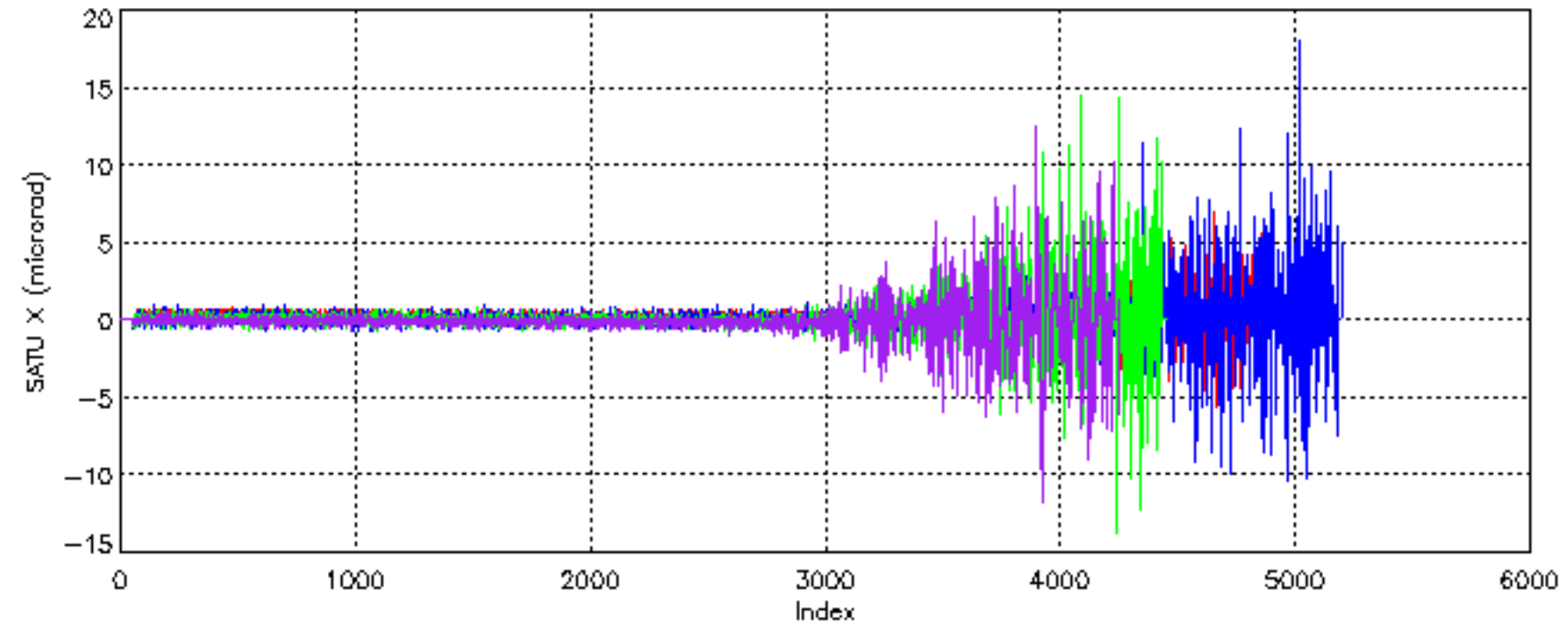


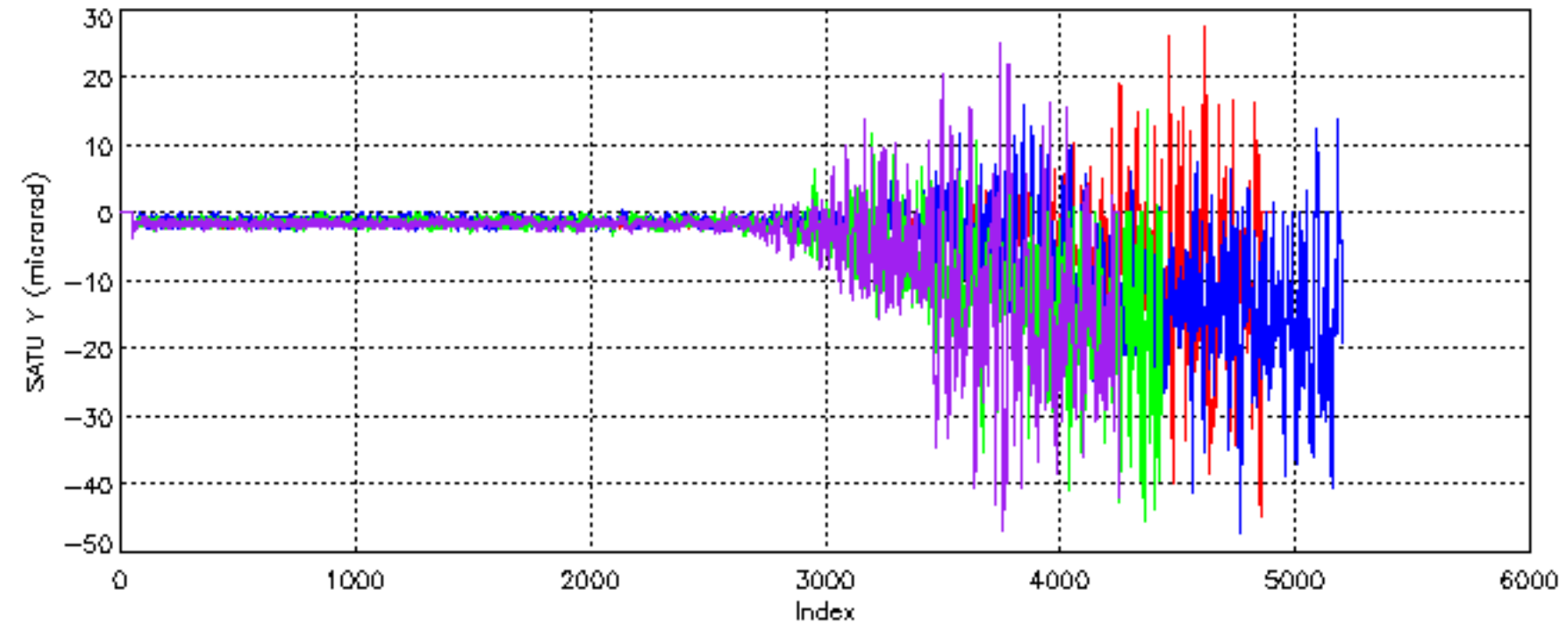
Tangent altitude at which the star is lost

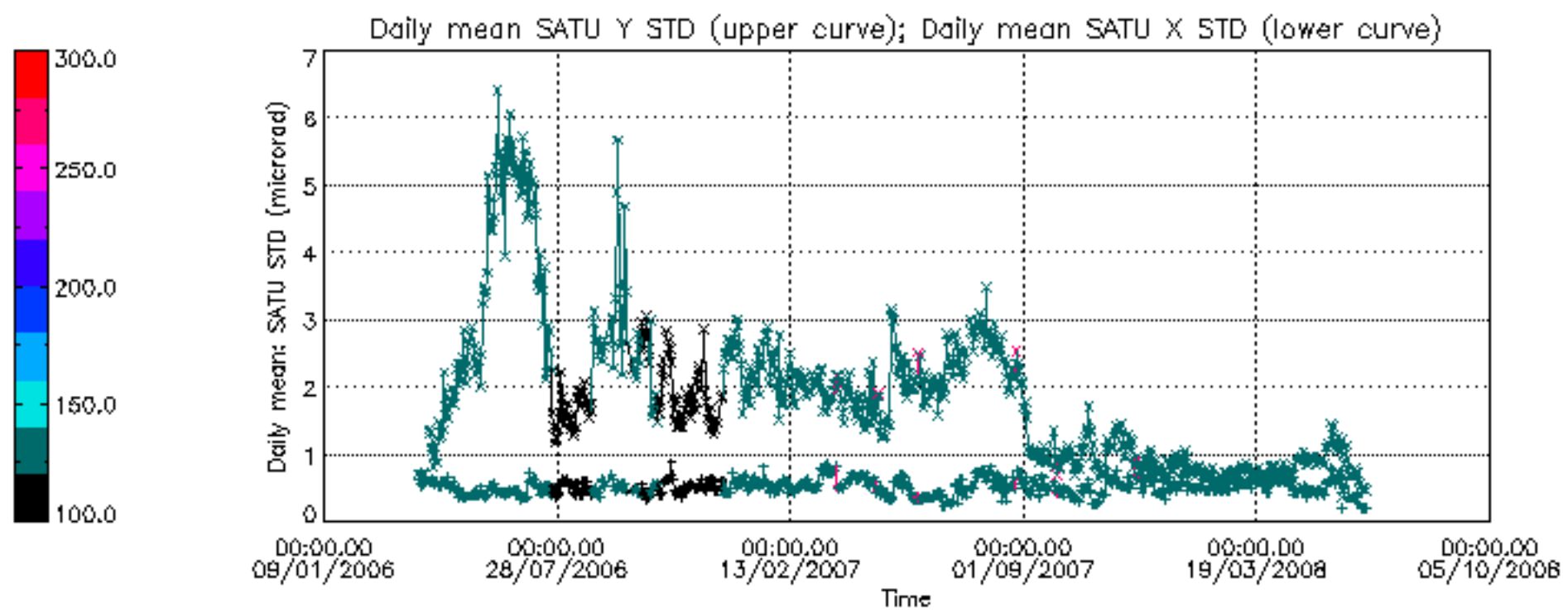


Tangent altitude at which the star is lost









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 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
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 13; 1591.4; 01-JUN-2008 00:49:44; Bright; 46.0; 86; 35Eta Oph ; 2.43; 10200;occ; 92; 0;32693
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 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
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 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
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 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
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 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
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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
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13; 1039.7; 01-JUN-2008 05:42:20; Dark ; 42.5; 40; The Sco ; 1.86; 7100;occ; 85; 0;32696
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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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 10; 4567.7; 04-JUN-2008 13:29:17; Dark ; 40.0; 58; 21Alp And ; 2.07; 11000;occ; 80; 0;32743
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 13; 5333.0; 04-JUN-2008 13:42:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32743
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 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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 22; 7096.3; 04-JUN-2008 15:52:02; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;32744
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6; 2014.7; 04-JUN-2008 16:07:56; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;32745
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 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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 16; 1599.0; 06-JUN-2008 06:34:47; Bright; 43.0; 86; 35Eta Oph ; 2.43; 10200;occ; 86; 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; 4266.2; 09-JUN-2008 19:09:11; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 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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11; 1604.7; 10-JUN-2008 01:07:13; Bright; 41.0; 86; 35Eta Oph ; 2.43; 10200;occ; 82; 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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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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14; 1194.9; 10-JUN-2008 04:21:35; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;32824
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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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13; 1195.1; 10-JUN-2008 06:02:11; Dark ; 40.0; 25; 35Lam Sco ; 1.62; 28000;occ; 80; 0;32825
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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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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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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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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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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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4; 210.3; 11-JUN-2008 00:12:22; Dark ; 51.0; 63; Bet Gru ; 2.15; 2800;occ; 102; 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
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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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13; 4269.3; 14-JUN-2008 08:08:09; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 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
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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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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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13; 4269.4; 14-JUN-2008 11:29:21; Bright; 56.0; 73; 57Gam1And ; 2.26; 13100;occ; 112; 0;32885
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23; 7146.9; 14-JUN-2008 12:17:19; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 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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 22; 6960.5; 14-JUN-2008 13:54:48; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 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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26; 3169.4; 15-JUN-2008 03:57:01; Bright; 31.5; 60; 7Bet UMi ; 2.08; 3950;occ; 63; 0;32895
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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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 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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2;	1305.9;	15-JUN-2008	16:50:45;	Dark	;	42.5;	75;	26Eps	Sco	;	2.29;	4250;	occ;	85;	0;	32903
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
15;	4062.4;	15-JUN-2008	17:36:41;	Bright;	;	34.0;	160;	23Gam	Per	;	2.93;	4700;	occ;	68;	0;	32903
16;	4270.0;	15-JUN-2008	17:40:09;	Bright;	;	40.5;	73;	57Gam1	And	;	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
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19;	4907.2;	15-JUN-2008	17:50:46;	Dark	;	49.5;	94;	92Alp	Cet	;	2.53;	3100;	occ;	99;	0;	32903
20;	5616.2;	15-JUN-2008	18:02:35;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	32903
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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2;	1116.7;	15-JUN-2008	18:28:11;	Dark	;	45.0;	40;	The	Sco	;	1.86;	7100;	occ;	90;	0;	32904
3;	1219.4;	15-JUN-2008	18:29:54;	Dark	;	44.0;	25;	35Lam	Sco	;	1.62;	28000;	occ;	88;	0;	32904
4;	1306.1;	15-JUN-2008	18:31:21;	Dark	;	42.5;	75;	26Eps	Sco	;	2.29;	4250;	occ;	85;	0;	32904
5;	1472.1;	15-JUN-2008	18:34:07;	Bright;	;	36.5;	156;	20Sig	Sco	;	2.90;	28000;	occ;	73;	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
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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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17;	4062.5;	15-JUN-2008	19:17:17;	Bright;	;	53.0;	160;	23Gam	Per	;	2.93;	4700;	occ;	106;	0;	32904
18;	4270.0;	15-JUN-2008	19:20:45;	Bright;	;	40.5;	73;	57Gam1	And	;	2.26;	13100;	occ;	81;	0;	32904
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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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 19; 3170.0; 16-JUN-2008 01:44:48; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;32908
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 3; 280.9; 16-JUN-2008 02:37:15; Dark ; 49.5; 63; Bet Gru ; 2.15; 2800;occ; 99; 0;32909
 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
 7; 1118.0; 16-JUN-2008 02:51:12; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;32909
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 9; 1307.1; 16-JUN-2008 02:54:21; Dark ; 41.0; 75; 26Eps Sco ; 2.29; 4250;occ; 82; 0;32909
 10; 1472.9; 16-JUN-2008 02:57:07; Bright; 35.5; 156; 20Sig Sco ; 2.90; 28000;occ; 71; 0;32909
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 12; 1719.1; 16-JUN-2008 03:01:13; Bright; 36.5; 98; 13Zet Oph ; 2.57; 30000;occ; 73; 0;32909
 13; 1845.0; 16-JUN-2008 03:03:19; Bright; 35.5; 120; 1Del Oph ; 2.73; 3200;occ; 71; 0;32909
 14; 2276.6; 16-JUN-2008 03:10:31; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;32909
 15; 2369.7; 16-JUN-2008 03:12:04; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 0;32909
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 17; 2864.7; 16-JUN-2008 03:20:19; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;32909
 18; 2960.5; 16-JUN-2008 03:21:55; Bright; 34.5; 119; 14Eta Dra ; 2.73; 4700;occ; 69; 0;32909
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 7; -417.7; 16-JUN-2008 04:06:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32909
 8; -93.0; 16-JUN-2008 04:11:37; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;32909
 9; 281.7; 16-JUN-2008 04:17:52; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;32910
 10; 631.7; 16-JUN-2008 04:23:42; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;32910
 11; 930.8; 16-JUN-2008 04:28:41; Dark ; 37.5; 141; Bet Ara ; 2.84; 4600;occ; 75; 0;32910
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 16; 1473.2; 16-JUN-2008 04:37:43; Bright; 37.0; 156; 20Sig Sco ; 2.90; 28000;occ; 74; 0;32910
 17; 1615.2; 16-JUN-2008 04:40:05; Bright; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;32910
 18; 1719.1; 16-JUN-2008 04:41:49; Bright; 35.0; 98; 13Zet Oph ; 2.57; 30000;occ; 70; 0;32910
 19; 1845.2; 16-JUN-2008 04:43:55; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;32910
 20; 2276.5; 16-JUN-2008 04:51:07; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;32910
 21; 2369.8; 16-JUN-2008 04:52:40; Bright; 35.0; 67; 5Alp CrB ; 2.22; 11000;occ; 70; 0;32910
 22; 2457.7; 16-JUN-2008 04:54:08; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;32910
 23; 2864.6; 16-JUN-2008 05:00:55; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;32910
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 25; 3170.1; 16-JUN-2008 05:06:00; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;32910
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9; 282.7; 16-JUN-2008 05:58:29; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;32911
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3; 363.5; 21-JUN-2008 23:28:56; Dark ; 54.5; 63; Bet Gru ; 2.15; 2800;occ; 109; 0;32993
4; 680.0; 21-JUN-2008 23:34:12; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;32993
5; 1035.5; 21-JUN-2008 23:40:08; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;32993
6; 1141.8; 21-JUN-2008 23:41:54; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;32993
7; 1243.0; 21-JUN-2008 23:43:35; Dark ; 42.5; 25; 35Lam Sco ; 1.62; 28000;occ; 85; 0;32993
8; 1323.6; 21-JUN-2008 23:44:56; Dark ; 59.0; 116; 19Del Sgr ; 2.70; 4100;occ; 118; 0;32993
9; 1625.4; 21-JUN-2008 23:49:58; Bright; 37.5; 86; 35Eta Oph ; 2.43; 10200;occ; 75; 0;32993
10; 1729.1; 21-JUN-2008 23:51:41; Bright; 36.5; 98; 13Zet Oph ; 2.57; 30000;occ; 73; 0;32993
11; 1991.1; 21-JUN-2008 23:56:03; Bright; 39.5; 126; 60Bet Oph ; 2.77; 4250;occ; 79; 0;32993
12; 2136.0; 21-JUN-2008 23:58:28; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;32993
13; 2274.2; 22-JUN-2008 00:00:46; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;32993
14; 2448.0; 22-JUN-2008 00:03:40; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;32993
15; 2836.8; 22-JUN-2008 00:10:09; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;32993
16; 2953.5; 22-JUN-2008 00:12:06; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;32993
17; 3176.7; 22-JUN-2008 00:15:49; Bright; 32.0; 60; 7Bet UMi ; 2.08; 3950;occ; 64; 0;32993
18; 3446.3; 22-JUN-2008 00:20:19; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;32993
19; 3874.1; 22-JUN-2008 00:27:26; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;32993
20; 4065.2; 22-JUN-2008 00:30:37; Bright; 51.5; 160; 23Gam Per ; 2.93; 4700;occ; 103; 0;32993
21; 4270.9; 22-JUN-2008 00:34:03; Bright; 43.5; 73; 57Gam1And ; 2.26; 13100;occ; 87; 0;32993
22; 4414.6; 22-JUN-2008 00:36:27; Dark ; 43.0; 173; 4Bet Tri ; 3.00; 8900;occ; 86; 0;32993
23; 4643.1; 22-JUN-2008 00:40:15; Dark ; 55.0; 50; 13Alp Ari ; 2.01; 4250;occ; 110; 0;32993
24; 4932.2; 22-JUN-2008 00:45:04; Dark ; 46.5; 94; 92Alp Cet ; 2.53; 3100;occ; 93; 0;32993
25; 5407.9; 22-JUN-2008 00:53:00; Dark ; 40.0; 0; ; 0.00; 0;occ; 80; 0;32993
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2; 2137.8; 21-JUN-2008 08:53:07; Bright; 40.5; 59; 55Alp Oph ; 2.08; 8900;occ; 81; 0;32984
3; 2274.1; 21-JUN-2008 08:55:23; Bright; 34.0; 127; 27Bet Her ; 2.78; 4700;occ; 68; 0;32984
4; 2448.8; 21-JUN-2008 08:58:18; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;32984
5; 2839.6; 21-JUN-2008 09:04:49; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;32984
6; 2954.0; 21-JUN-2008 09:06:43; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;32984
7; 3176.0; 21-JUN-2008 09:10:25; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;32984
8; 3446.3; 21-JUN-2008 09:14:55; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;32984
9; 3876.7; 21-JUN-2008 09:22:06; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;32984
10; 4065.0; 21-JUN-2008 09:25:14; Bright; 48.0; 160; 23Gam Per ; 2.93; 4700;occ; 96; 0;32984
11; 4271.1; 21-JUN-2008 09:28:40; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;32984
12; 4413.8; 21-JUN-2008 09:31:03; Dark ; 43.0; 173; 4Bet Tri ; 3.00; 8900;occ; 86; 0;32984
13; 4640.9; 21-JUN-2008 09:34:50; Dark ; 50.5; 50; 13Alp Ari ; 2.01; 4250;occ; 101; 0;32984
14; 4929.5; 21-JUN-2008 09:39:38; Dark ; 45.0; 94; 92Alp Cet ; 2.53; 3100;occ; 90; 0;32984
15; 5648.0; 21-JUN-2008 09:51:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32984
16; 6012.3; 21-JUN-2008 09:57:41; Dark ; 39.0; 9; Alp Eri ; 0.45; 24000;occ; 78; 0;32984
17; 6391.6; 21-JUN-2008 10:04:01; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;32984
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19; 7069.4; 21-JUN-2008 10:15:18; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;32984
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21; 7277.1; 21-JUN-2008 10:18:46; Dark ; 42.5; 25; 35Lam Sco ; 1.62; 28000;occ; 85; 0;32984
22; 7357.3; 21-JUN-2008 10:20:06; Dark ; 54.0; 116; 19Del Sgr ; 2.70; 4100;occ; 108; 0;32984
23; 7660.4; 21-JUN-2008 10:25:09; Bright; 35.5; 86; 35Eta Oph ; 2.43; 10200;occ; 71; 0;32984
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3; 2137.6; 21-JUN-2008 10:33:42; Bright; 40.5; 59; 55Alp Oph ; 2.08; 8900;occ; 81; 0;32985
4; 2274.1; 21-JUN-2008 10:35:59; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;32985
5; 2448.7; 21-JUN-2008 10:38:54; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;32985
6; 2839.2; 21-JUN-2008 10:45:24; Bright; 40.0; 130; 23Bet Dra ; 2.80; 5800;occ; 80; 0;32985
7; 2953.9; 21-JUN-2008 10:47:19; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;32985
8; 3176.1; 21-JUN-2008 10:51:01; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;32985
9; 3446.2; 21-JUN-2008 10:55:31; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;32985
10; 3876.4; 21-JUN-2008 11:02:41; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;32985
11; 4065.0; 21-JUN-2008 11:05:50; Bright; 46.0; 160; 23Gam Per ; 2.93; 4700;occ; 92; 0;32985
12; 4271.0; 21-JUN-2008 11:09:16; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;32985
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
15; 4929.7; 21-JUN-2008 11:20:15; Dark ; 45.5; 94; 92Alp Cet ; 2.53; 3100;occ; 91; 0;32985

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 19; 6711.9; 21-JUN-2008 11:49:57; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;32985
 20; 7069.7; 21-JUN-2008 11:55:55; Dark ; 37.5; 147; Alp Ara ; 2.88; 26000;occ; 75; 0;32985
 21; 7175.9; 21-JUN-2008 11:57:41; Dark ; 41.0; 40; The Sco ; 1.86; 7100;occ; 82; 0;32985
 22; 7277.3; 21-JUN-2008 11:59:22; Dark ; 43.0; 25; 35Lam Sco ; 1.62; 28000;occ; 86; 0;32985
 23; 7357.6; 21-JUN-2008 12:00:42; Dark ; 52.5; 116; 19Del Sgr ; 2.70; 4100;occ; 105; 0;32985
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 4; 2137.4; 21-JUN-2008 12:14:18; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;32986
 5; 2274.1; 21-JUN-2008 12:16:35; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;32986
 6; 2448.6; 21-JUN-2008 12:19:29; Bright; 38.0; 133; 40Zet Her ; 2.81; 6000;occ; 76; 0;32986
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 8; 2953.9; 21-JUN-2008 12:27:55; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;32986
 9; 3176.1; 21-JUN-2008 12:31:37; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;32986
 10; 3446.4; 21-JUN-2008 12:36:07; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;32986
 11; 3876.0; 21-JUN-2008 12:43:17; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;32986
 12; 4065.1; 21-JUN-2008 12:46:26; Bright; 53.0; 160; 23Gam Per ; 2.93; 4700;occ; 106; 0;32986
 13; 4271.0; 21-JUN-2008 12:49:52; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;32986
 14; 4413.9; 21-JUN-2008 12:52:15; Dark ; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;32986
 15; 4641.4; 21-JUN-2008 12:56:02; Dark ; 52.0; 50; 13Alp Ari ; 2.01; 4250;occ; 104; 0;32986
 16; 4930.0; 21-JUN-2008 13:00:51; Dark ; 47.5; 94; 92Alp Cet ; 2.53; 3100;occ; 95; 0;32986
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 18; 6013.1; 21-JUN-2008 13:18:54; Dark ; 37.0; 9; Alp Eri ; 0.45; 24000;occ; 74; 0;32986
 19; 6393.5; 21-JUN-2008 13:25:14; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;32986
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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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 2; 1728.4; 21-JUN-2008 13:48:05; Bright; 35.0; 98; 13Zet Oph ; 2.57; 30000;occ; 70; 0;32987
 3; 1991.9; 21-JUN-2008 13:52:28; Bright; 39.5; 126; 60Bet Oph ; 2.77; 4250;occ; 79; 0;32987
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 5; 2274.2; 21-JUN-2008 13:57:11; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;32987
 6; 2448.5; 21-JUN-2008 14:00:05; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;32987
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 8; 2953.9; 21-JUN-2008 14:08:30; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;32987
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 11; 3875.9; 21-JUN-2008 14:23:53; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;32987
 12; 4065.3; 21-JUN-2008 14:27:02; Bright; 34.0; 160; 23Gam Per ; 2.93; 4700;occ; 68; 0;32987
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 23; 7277.9; 21-JUN-2008 15:20:34; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 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
 4; 1991.7; 21-JUN-2008 15:33:04; Bright; 39.5; 126; 60Bet Oph ; 2.77; 4250;occ; 79; 0;32988
 5; 2137.1; 21-JUN-2008 15:35:30; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;32988
 6; 2274.3; 21-JUN-2008 15:37:47; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;32988
 7; 2448.5; 21-JUN-2008 15:40:41; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;32988
 8; 2838.5; 21-JUN-2008 15:47:11; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;32988

9; 2953.9; 21-JUN-2008 15:49:06; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;32988
 10; 3176.4; 21-JUN-2008 15:52:49; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;32988
 11; 3446.4; 21-JUN-2008 15:57:19; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;32988
 12; 3875.7; 21-JUN-2008 16:04:28; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;32988
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 23; 7176.8; 21-JUN-2008 16:59:29; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;32988
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 5; 1991.7; 21-JUN-2008 17:13:40; Bright; 59.0; 126; 60Bet Oph ; 2.77; 4250;occ; 118; 0;32989
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 7; 2274.3; 21-JUN-2008 17:18:23; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;32989
 8; 2448.4; 21-JUN-2008 17:21:17; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;32989
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 10; 2953.8; 21-JUN-2008 17:29:42; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;32989
 11; 3176.5; 21-JUN-2008 17:33:25; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;32989
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21; 4415.5; 22-JUN-2008 22:24:15; Dark ; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;33006
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2;	-14.6;	22-JUN-2008	22:51:01;	Dark	;	48.0;	9;	Alp Eri	;	0.45;	24000;occ;	96;	0;33006
3;	377.3;	22-JUN-2008	22:57:33;	Dark	;	50.5;	63;	Bet Gru	;	2.15;	2800;occ;	101;	0;33007
4;	687.6;	22-JUN-2008	23:02:43;	Dark	;	40.5;	45;	Alp Pav	;	1.94;	26000;occ;	81;	0;33007
5;	1145.4;	22-JUN-2008	23:10:21;	Dark	;	40.5;	40;	The Sco	;	1.86;	7100;occ;	81;	0;33007
6;	1246.4;	22-JUN-2008	23:12:02;	Dark	;	43.5;	25;	35Lam Sco	;	1.62;	28000;occ;	87;	0;33007
7;	1327.5;	22-JUN-2008	23:13:23;	Dark	;	45.0;	116;	19Del Sgr	;	2.70;	4100;occ;	90;	0;33007
8;	1627.2;	22-JUN-2008	23:18:22;	Bright;	;	37.0;	86;	35Eta Oph	;	2.43;	10200;occ;	74;	0;33007
9;	1731.0;	22-JUN-2008	23:20:06;	Bright;	;	36.5;	98;	13Zet Oph	;	2.57;	30000;occ;	73;	0;33007
10;	1989.2;	22-JUN-2008	23:24:24;	Bright;	;	39.5;	126;	60Bet Oph	;	2.77;	4250;occ;	79;	0;33007
11;	2133.7;	22-JUN-2008	23:26:49;	Bright;	;	40.0;	59;	55Alp Oph	;	2.08;	8900;occ;	80;	0;33007
12;	2274.5;	22-JUN-2008	23:29:10;	Bright;	;	36.5;	127;	27Bet Her	;	2.78;	4700;occ;	73;	0;33007
13;	2447.2;	22-JUN-2008	23:32:02;	Bright;	;	35.5;	133;	40Zet Her	;	2.81;	6000;occ;	71;	0;33007
14;	2832.9;	22-JUN-2008	23:38:28;	Bright;	;	39.5;	130;	23Bet Dra	;	2.80;	5800;occ;	79;	0;33007
15;	2952.8;	22-JUN-2008	23:40:28;	Bright;	;	37.0;	119;	14Eta Dra	;	2.73;	4700;occ;	74;	0;33007
16;	3178.0;	22-JUN-2008	23:44:13;	Bright;	;	39.0;	60;	7Bet UMi	;	2.08;	3950;occ;	78;	0;33007
17;	3446.1;	22-JUN-2008	23:48:41;	Bright;	;	35.0;	49;	1Alp UMi	;	1.99;	6300;occ;	70;	0;33007
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19;	4065.3;	22-JUN-2008	23:59:01;	Bright;	;	34.0;	160;	23Gam Per	;	2.93;	4700;occ;	68;	0;33007
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21;	4415.8;	23-JUN-2008	00:04:51;	Dark	;	44.0;	173;	4Bet Tri	;	3.00;	8900;occ;	88;	0;33007
22;	4936.5;	23-JUN-2008	00:13:32;	Dark	;	45.5;	94;	92Alp Cet	;	2.53;	3100;occ;	91;	0;33007
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6;	-625.3;	22-JUN-2008	07:35:27;	Dark	;	59.5;	0;	;	;	0.00;	0;occ;	119;	0;32997
7;	-18.3;	22-JUN-2008	07:45:34;	Dark	;	43.5;	9;	Alp Eri	;	0.45;	24000;occ;	87;	0;32997
8;	368.6;	22-JUN-2008	07:52:01;	Dark	;	49.0;	63;	Bet Gru	;	2.15;	2800;occ;	98;	0;32998
9;	682.7;	22-JUN-2008	07:57:15;	Dark	;	41.0;	45;	Alp Pav	;	1.94;	26000;occ;	82;	0;32998
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11;	1244.2;	22-JUN-2008	08:06:36;	Dark	;	42.5;	25;	35Lam Sco	;	1.62;	28000;occ;	85;	0;32998
12;	1325.1;	22-JUN-2008	08:07:57;	Dark	;	46.0;	116;	19Del Sgr	;	2.70;	4100;occ;	92;	0;32998
13;	1401.0;	22-JUN-2008	08:09:13;	Bright;	;	45.5;	137;	22Lam Sgr	;	2.82;	4400;occ;	91;	0;32998
14;	1626.1;	22-JUN-2008	08:12:58;	Bright;	;	37.0;	86;	35Eta Oph	;	2.43;	10200;occ;	74;	0;32998
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3;	1990.3;	22-JUN-2008	08:19:02;	Bright;	;	40.0;	126;	60Bet Oph	;	2.77;	4250;occ;	80;	0;32998
4;	2135.2;	22-JUN-2008	08:21:27;	Bright;	;	39.0;	59;	55Alp Oph	;	2.08;	8900;occ;	78;	0;32998
5;	2274.4;	22-JUN-2008	08:23:46;	Bright;	;	36.5;	127;	27Bet Her	;	2.78;	4700;occ;	73;	0;32998
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8;	2953.2;	22-JUN-2008	08:35:05;	Bright;	;	36.5;	119;	14Eta Dra	;	2.73;	4700;occ;	73;	0;32998
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15;	4933.8;	22-JUN-2008	09:08:06;	Dark	;	36.5;	94;	92Alp Cet	;	2.53;	3100;occ;	73;	0;32998
16;	5411.3;	22-JUN-2008	09:16:03;	Dark	;	59.5;	0;	;	;	0.00;	0;occ;	119;	0;32998
17;	6018.0;	22-JUN-2008	09:26:10;	Dark	;	49.0;	9;	Alp Eri	;	0.45;	24000;occ;	98;	0;32998
18;	6405.4;	22-JUN-2008	09:32:37;	Dark	;	54.0;	63;	Bet Gru	;	2.15;	2800;occ;	108;	0;32998
19;	6719.2;	22-JUN-2008	09:37:51;	Dark	;	43.0;	45;	Alp Pav	;	1.94;	26000;occ;	86;	0;32998
20;	7179.4;	22-JUN-2008	09:45:31;	Dark	;	41.0;	40;	The Sco	;	1.86;	7100;occ;	82;	0;32998
21;	7280.5;	22-JUN-2008	09:47:12;	Dark	;	43.0;	25;	35Lam Sco	;	1.62;	28000;occ;	86;	0;32998
22;	7361.2;	22-JUN-2008	09:48:33;	Dark	;	58.0;	116;	19Del Sgr	;	2.70;	4100;occ;	116;	0;32998
23;	7437.2;	22-JUN-2008	09:49:49;	Bright;	;	43.5;	137;	22Lam Sgr	;	2.82;	4400;occ;	87;	0;32998
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25;	7765.8;	22-JUN-2008	09:55:18;	Bright;	;	35.0;	98;	13Zet Oph	;	2.57;	30000;occ;	70;	1;32998
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13; 3446.1; 23-JUN-2008 21:36:28; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33020
14; 3866.4; 23-JUN-2008 21:43:29; Bright; 33.0; 76; 27Gam Cas ; 2.30; 30000;occ; 66; 0;33020
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6; 1249.8; 23-JUN-2008 22:40:28; Dark ; 42.5; 25; 35Lam Sco ; 1.62; 28000;occ; 85; 0;33021
7; 1331.3; 23-JUN-2008 22:41:50; Dark ; 48.0; 116; 19Del Sgr ; 2.70; 4100;occ; 96; 0;33021
8; 1629.2; 23-JUN-2008 22:46:47; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;33021
9; 1732.9; 23-JUN-2008 22:48:31; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;33021
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12; 2274.9; 23-JUN-2008 22:57:33; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;33021
13; 2446.8; 23-JUN-2008 23:00:25; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;33021
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16; 3179.5; 23-JUN-2008 23:12:38; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;33021
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3;-1765.1; 23-JUN-2008 06:44:50; Bright; 44.5; 73; 57Gam1And ; 2.26; 13100;occ; 89; 0;33011
4;-1619.8; 23-JUN-2008 06:47:15; Dark ; 46.0; 173; 4Bet Tri ; 3.00; 8900;occ; 92; 0;33011
5;-1388.1; 23-JUN-2008 06:51:07; Dark ; 52.0; 50; 13Alp Ari ; 2.01; 4250;occ; 104; 0;33011

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8; -12.4; 23-JUN-2008 07:14:03; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;33011
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
12; 1247.9; 23-JUN-2008 07:35:03; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;33012
13; 1329.0; 23-JUN-2008 07:36:24; Dark ; 56.5; 116; 19Del Sgr ; 2.70; 4100;occ; 113; 0;33012
14; 1628.1; 23-JUN-2008 07:41:23; Bright; 37.5; 86; 35Eta Oph ; 2.43; 10200;occ; 75; 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
9; 3446.2; 23-JUN-2008 08:11:41; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33012
10; 3868.8; 23-JUN-2008 08:18:44; Bright; 50.5; 76; 27Gam Cas ; 2.30; 30000;occ; 101; 0;33012
11; 4065.5; 23-JUN-2008 08:22:00; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;33012
12; 4270.8; 23-JUN-2008 08:25:26; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;33012
13; 4416.4; 23-JUN-2008 08:27:51; Dark ; 43.5; 173; 4Bet Tri ; 3.00; 8900;occ; 87; 0;33012
14; 4648.2; 23-JUN-2008 08:31:43; Dark ; 52.0; 50; 13Alp Ari ; 2.01; 4250;occ; 104; 0;33012
15; 4938.3; 23-JUN-2008 08:36:33; Dark ; 36.5; 94; 92Alp Cet ; 2.53; 3100;occ; 73; 0;33012
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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19; 6727.0; 23-JUN-2008 09:06:22; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;33012
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21; 7283.9; 23-JUN-2008 09:15:39; Dark ; 43.0; 25; 35Lam Sco ; 1.62; 28000;occ; 86; 0;33012
22; 7365.2; 23-JUN-2008 09:17:00; Dark ; 55.5; 116; 19Del Sgr ; 2.70; 4100;occ; 111; 0;33012
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
10; 3868.6; 23-JUN-2008 09:59:19; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;33013
11; 4065.5; 23-JUN-2008 10:02:36; Bright; 35.0; 160; 23Gam Per ; 2.93; 4700;occ; 70; 0;33013
12; 4270.8; 23-JUN-2008 10:06:02; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;33013
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
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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
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7; 1331.6; 24-JUN-2008 00:22:26; Dark ; 53.5; 116; 19Del Sgr ; 2.70; 4100;occ; 107; 0;33022
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 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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 5; 2274.8; 23-JUN-2008 11:13:21; Bright; 38.0; 127; 27Bet Her ; 2.78; 4700;occ; 76; 0;33014
 6; 2447.0; 23-JUN-2008 11:16:14; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;33014
 7; 2831.1; 23-JUN-2008 11:22:38; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;33014
 8; 2952.5; 23-JUN-2008 11:24:39; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;33014
 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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 13; 4270.8; 23-JUN-2008 11:46:37; Bright; 43.5; 73; 57Gam1And ; 2.26; 13100;occ; 87; 0;33014
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 23; 7365.8; 23-JUN-2008 12:38:12; Dark ; 46.0; 116; 19Del Sgr ; 2.70; 4100;occ; 92; 0;33014
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 5; 2274.8; 23-JUN-2008 12:53:57; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;33015
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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
 22; 7284.6; 23-JUN-2008 14:17:27; Dark ; 40.0; 25; 35Lam Sco ; 1.62; 28000;occ; 80; 0;33015
 23; 7366.0; 23-JUN-2008 14:18:49; Dark ; 43.5; 116; 19Del Sgr ; 2.70; 4100;occ; 87; 0;33015

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 3; 1988.4; 23-JUN-2008 14:29:47; Bright; 40.0; 126; 60Bet Oph ; 2.77; 4250;occ; 80; 0;33016
 4; 2132.4; 23-JUN-2008 14:32:11; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;33016

5; 2275.0; 23-JUN-2008 14:34:33; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;33016
6; 2446.9; 23-JUN-2008 14:37:25; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;33016
7; 2830.7; 23-JUN-2008 14:43:49; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;33016
8; 2952.6; 23-JUN-2008 14:45:51; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;33016
9; 3179.1; 23-JUN-2008 14:49:38; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;33016
10; 3446.3; 23-JUN-2008 14:54:05; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;33016
11; 3867.8; 23-JUN-2008 15:01:06; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;33016
12; 4065.4; 23-JUN-2008 15:04:24; Bright; 34.5; 160; 23Gam Per ; 2.93; 4700;occ; 69; 0;33016
13; 4270.9; 23-JUN-2008 15:07:49; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;33016
14; 4649.4; 23-JUN-2008 15:14:08; Dark ; 57.5; 50; 13Alp Ari ; 2.01; 4250;occ; 115; 0;33016
15; 4939.8; 23-JUN-2008 15:18:58; Dark ; 44.5; 94; 92Alp Cet ; 2.53; 3100;occ; 89; 0;33016
16; 5423.3; 23-JUN-2008 15:27:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33016
17; 6025.7; 23-JUN-2008 15:37:04; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;33016
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19; 6729.2; 23-JUN-2008 15:48:48; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;33016
20; 7184.2; 23-JUN-2008 15:56:23; Dark ; 41.0; 40; The Sco ; 1.86; 7100;occ; 82; 0;33016
21; 7285.0; 23-JUN-2008 15:58:03; Dark ; 39.0; 25; 35Lam Sco ; 1.62; 28000;occ; 78; 0;33016
22; 7366.4; 23-JUN-2008 15:59:25; Dark ; 37.0; 116; 19Del Sgr ; 2.70; 4100;occ; 74; 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
4; 1988.2; 23-JUN-2008 16:10:23; Bright; 39.5; 126; 60Bet Oph ; 2.77; 4250;occ; 79; 0;33017
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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16; 4940.1; 23-JUN-2008 16:59:34; Dark ; 45.5; 94; 92Alp Cet ; 2.53; 3100;occ; 91; 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
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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
14; 3867.1; 23-JUN-2008 18:22:18; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;33018
15; 4065.3; 23-JUN-2008 18:25:36; Bright; 36.5; 160; 23Gam Per ; 2.93; 4700;occ; 73; 0;33018
16; 4288.5; 23-JUN-2008 18:29:19; Bright; 35.5; 79; 26Bet Per ; 2.31; 13100;occ; 71; 0;33018
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
22; 6730.3; 23-JUN-2008 19:10:01; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 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
14; 3866.8; 23-JUN-2008 20:02:53; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;33019
15; 4065.4; 23-JUN-2008 20:06:12; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;33019
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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3; 393.3; 24-JUN-2008 01:47:23; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;33023
4; 696.4; 24-JUN-2008 01:52:26; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;33023
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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8; 1629.4; 24-JUN-2008 02:07:59; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;33023
9; 1733.2; 24-JUN-2008 02:09:43; Bright; 35.5; 98; 13Zet Oph ; 2.57; 30000;occ; 71; 0;33023
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13; 2446.6; 24-JUN-2008 02:21:37; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 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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6; -607.8; 24-JUN-2008 03:11:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33023
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14; 1733.4; 24-JUN-2008 03:50:19; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;33024
15; 1987.6; 24-JUN-2008 03:54:33; Bright; 38.0; 126; 60Bet Oph ; 2.77; 4250;occ; 76; 0;33024
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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16; 2131.0; 24-JUN-2008 05:37:33; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 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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 3; 1338.5; 25-JUN-2008 19:58:07; Dark ; 53.0; 116; 19Del Sgr ; 2.70; 4100;occ; 106; 0;33048
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 16; 4419.5; 25-JUN-2008 20:49:28; Dark ; 46.0; 173; 4Bet Tri ; 3.00; 8900;occ; 92; 0;33048
 17; 4950.5; 25-JUN-2008 20:58:19; Dark ; 45.0; 94; 92Alp Cet ; 2.53; 3100;occ; 90; 0;33048

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 5; 710.4; 25-JUN-2008 21:28:15; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;33049
 6; 1155.7; 25-JUN-2008 21:35:40; Dark ; 47.5; 40; The Sco ; 1.86; 7100;occ; 95; 0;33049
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 21; 4419.5; 25-JUN-2008 22:30:04; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;33049
 22; 4950.8; 25-JUN-2008 22:38:55; Dark ; 43.5; 94; 92Alp Cet ; 2.53; 3100;occ; 87; 0;33049

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 11; 2276.5; 25-JUN-2008 23:34:57; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;33050
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18; 4065.0; 26-JUN-2008 00:04:45; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;33050
19; 4270.0; 26-JUN-2008 00:08:10; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;33050
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 6; 2951.7; 25-JUN-2008 08:40:49; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;33041
 7; 3181.8; 25-JUN-2008 08:44:39; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;33041
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 9; 3897.8; 25-JUN-2008 08:56:35; Bright; 39.5; 110; 37Del Cas ; 2.68; 8900;occ; 79; 0;33041
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 7; 2280.4; 28-JUN-2008 16:58:22; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;33089
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