

GOMOS Daily Report 20-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	22JUN2008 05:32:15
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (20JUN2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (21JUN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	1

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

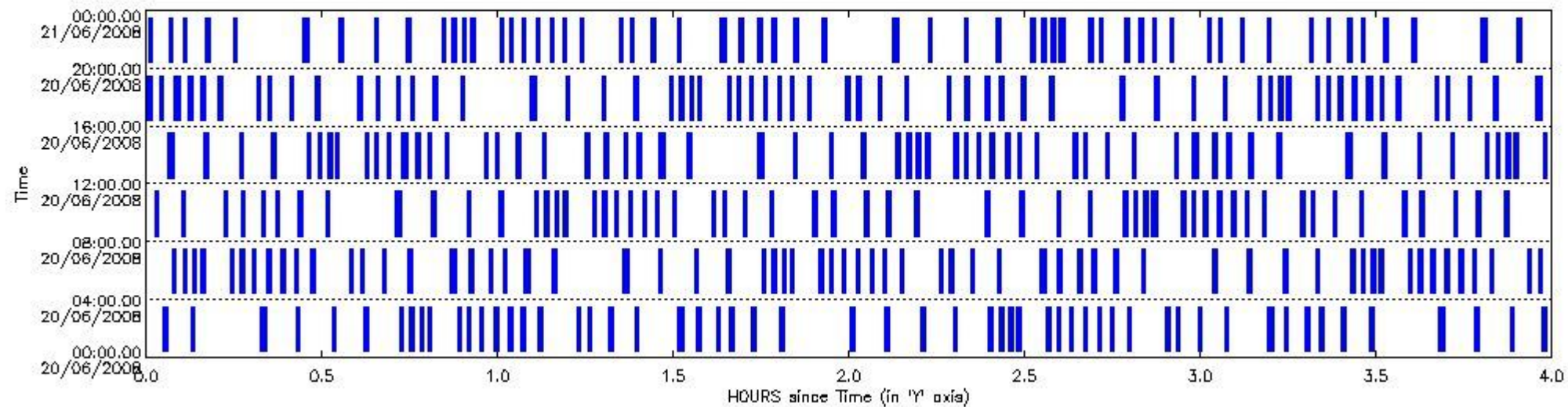
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

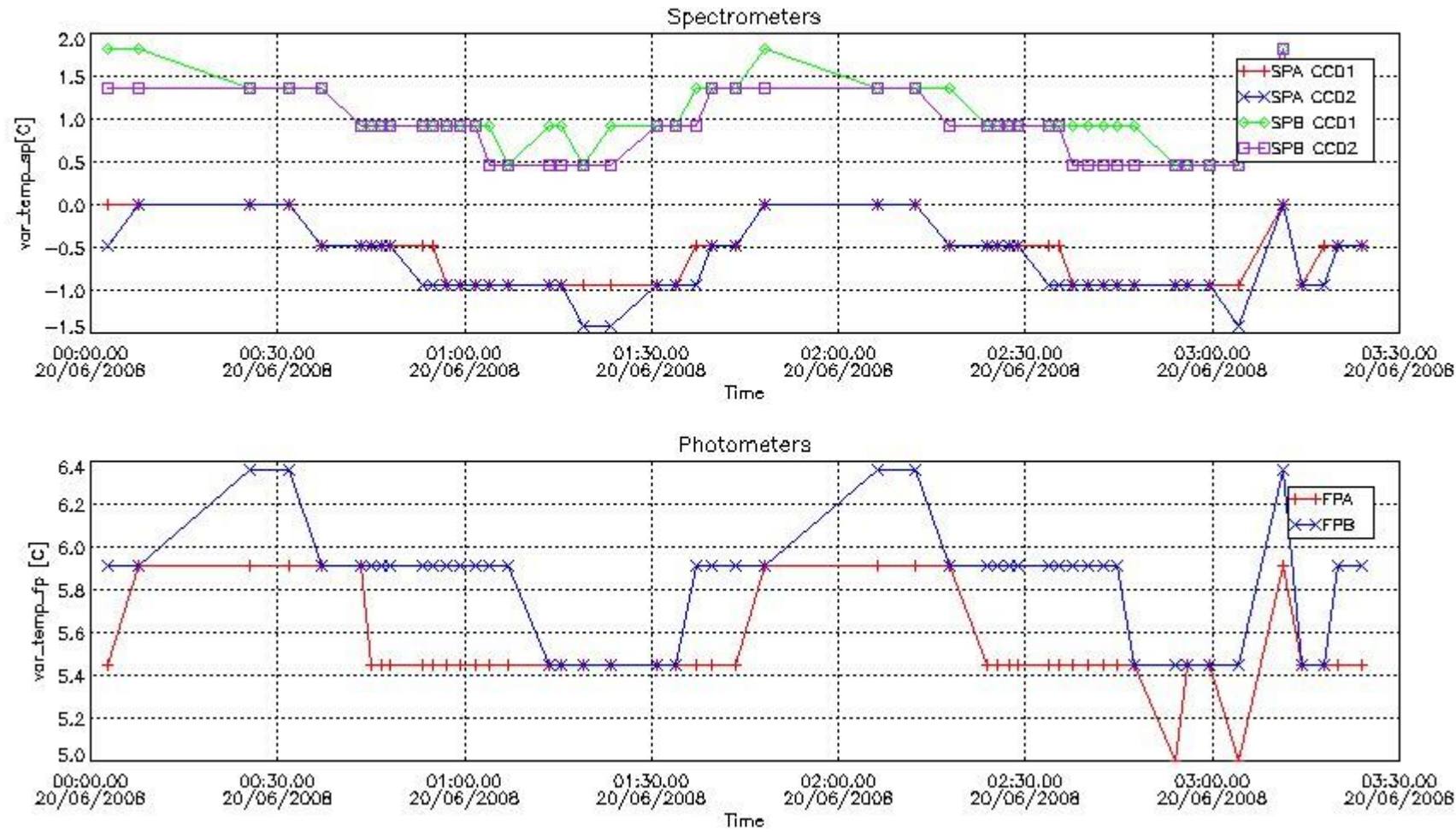
No missing products.

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_1PNPDE20080620_000246_000000532069_00345_32964_1461.N1	20-JUN-2008 00:02:46	Twilight	52.500	50	13Alp Ari	2.0070	4250.0	105	32964	No
2	GOM_TRA_1PNPDE20080620_000734_000000442069_00345_32964_1462.N1	20-JUN-2008 00:07:34	Dark	43.500	94	92Alp Cet	2.5260	3100.0	87	32964	No
3	GOM_TRA_1PNPDE20080620_002534_000000422069_00345_32964_1596.N1	20-JUN-2008 00:25:34	Dark	42.000	9	Alp Eri	0.45300	24000.	84	32964	No
4	GOM_TRA_1PNPDE20080620_003142_000000422069_00346_32965_1597.N1	20-JUN-2008 00:31:42	Dark	42.000	63	Bet Gru	2.1500	2800.0	84	32965	No
5	GOM_TRA_1PNPDE20080620_003710_000000412069_00346_32965_1598.N1	20-JUN-2008 00:37:10	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	32965	No
6	GOM_TRA_1PNPDE20080620_004314_000000372069_00346_32965_1599.N1	20-JUN-2008 00:43:14	Straylight	37.000	147	Alp Ara	2.8770	26000.	74	32965	No
7	GOM_TRA_1PNPDE20080620_004500_000000402069_00346_32965_1600.N1	20-JUN-2008 00:45:00	Twilight_and_stray	40.000	40	The Sco	1.8590	7100.0	80	32965	No
8	GOM_TRA_1PNPDE20080620_004642_000000402069_00346_32965_1601.N1	20-JUN-2008 00:46:42	Twilight_and_stray	40.000	25	35Lam Sco	1.6200	28000.	80	32965	No
9	GOM_TRA_1PNPDE20080620_004805_000000422069_00346_32965_1602.N1	20-JUN-2008 00:48:05	Bright	41.500	75	26Eps Sco	2.2910	4250.0	83	32965	No
10	GOM_TRA_1PNPDE20080620_005308_000000392069_00346_32965_1603.N1	20-JUN-2008 00:53:08	Bright	38.500	86	35Eta Oph	2.4300	10200.	77	32965	No
11	GOM_TRA_1PNPDE20080620_005452_000000362069_00346_32965_1604.N1	20-JUN-2008 00:54:52	Bright	35.500	98	13Zet Oph	2.5710	30000.	71	32965	No
12	GOM_TRA_1PNPDE20080620_005658_000000362069_00346_32965_1605.N1	20-JUN-2008 00:56:58	Bright	35.500	120	1Del Oph	2.7340	3200.0	71	32965	No

13	GOM_TRA_1PNPDE20080620_005921_000000412069_00346_32965_1606.N1	20-JUN-2008 00:59:21	Bright	41.000	126	60Bet Oph	2.7700	4250.0	82	32965	No
14	GOM_TRA_1PNPDE20080620_010148_000000422069_00346_32965_1607.N1	20-JUN-2008 01:01:48	Bright	41.500	59	55Alp Oph	2.0800	8900.0	83	32965	No
15	GOM_TRA_1PNPDE20080620_010400_000000362069_00346_32965_1608.N1	20-JUN-2008 01:04:00	Bright	36.000	127	27Bet Her	2.7810	4700.0	72	32965	No
16	GOM_TRA_1PNPDE20080620_010657_000000382069_00346_32965_1609.N1	20-JUN-2008 01:06:57	Bright	37.500	133	40Zet Her	2.8070	6000.0	75	32965	No
17	GOM_TRA_1PNPDE20080620_011331_000000362069_00346_32965_1610.N1	20-JUN-2008 01:13:31	Bright	36.000	130	23Bet Dra	2.7990	5800.0	72	32965	No
18	GOM_TRA_1PNPDE20080620_011521_000000382069_00346_32965_1611.N1	20-JUN-2008 01:15:21	Bright	37.500	119	14Eta Dra	2.7270	4700.0	75	32965	No
19	GOM_TRA_1PNPDE20080620_011900_000000352069_00346_32965_1612.N1	20-JUN-2008 01:19:00	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	32965	No
20	GOM_TRA_1PNPDE20080620_012333_000000362069_00346_32965_1613.N1	20-JUN-2008 01:23:33	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	32965	No
21	GOM_TRA_1PNPDE20080620_013048_000000612069_00346_32965_1614.N1	20-JUN-2008 01:30:48	Bright	61.000	76	27Gam Cas	2.3000	30000.	122	32965	No
22	GOM_TRA_1PNPDE20080620_013351_000000532069_00346_32965_1615.N1	20-JUN-2008 01:33:51	Bright	53.000	160	23Gam Per	2.9300	4700.0	106	32965	No
23	GOM_TRA_1PNPDE20080620_013717_000000422069_00346_32965_1616.N1	20-JUN-2008 01:37:17	Bright	42.000	73	57Gam1And	2.2600	13100.	84	32965	No
24	GOM_TRA_1PNPDE20080620_013938_000000452069_00346_32965_1617.N1	20-JUN-2008 01:39:38	Bright	44.500	173	4Bet Tri	3.0040	8900.0	89	32965	No
25	GOM_TRA_1PNPDE20080620_014322_000000522069_00346_32965_1618.N1	20-JUN-2008 01:43:22	Twilight	51.500	50	13Alp Ari	2.0070	4250.0	103	32965	No
26	GOM_TRA_1PNPDE20080620_014810_000000482069_00346_32965_1619.N1	20-JUN-2008 01:48:10	Dark	47.500	94	92Alp Cet	2.5260	3100.0	95	32965	No
27	GOM_TRA_1PNPDE20080620_020611_000000422069_00346_32965_1753.N1	20-JUN-2008 02:06:11	Dark	41.500	9	Alp Eri	0.45300	24000.	83	32965	No
28	GOM_TRA_1PNPDE20080620_021219_000000402069_00347_32966_1754.N1	20-JUN-2008 02:12:19	Dark	40.000	63	Bet Gru	2.1500	2800.0	80	32966	No
29	GOM_TRA_1PNPDE20080620_021747_000000412069_00347_32966_1755.N1	20-JUN-2008 02:17:47	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	32966	No
30	GOM_TRA_1PNPDE20080620_022351_000000382069_00347_32966_1756.N1	20-JUN-2008 02:23:51	Straylight	37.500	147	Alp Ara	2.8770	26000.	75	32966	No
31	GOM_TRA_1PNPDE20080620_022537_000000442069_00347_32966_1757.N1	20-JUN-2008 02:25:37	Tw_i_and_stray	43.500	40	The Sco	1.8590	7100.0	87	32966	No
32	GOM_TRA_1PNPDE20080620_022718_000000442069_00347_32966_1758.N1	20-JUN-2008 02:27:18	Tw_i_and_stray	43.500	25	35Lam Sco	1.6200	28000.	87	32966	No
33	GOM_TRA_1PNPDE20080620_022841_000000442069_00347_32966_1759.N1	20-JUN-2008 02:28:41	Bright	43.500	75	26Eps Sco	2.2910	4250.0	87	32966	No
34	GOM_TRA_1PNPDE20080620_023344_000000382069_00347_32966_1760.N1	20-JUN-2008 02:33:44	Bright	38.000	86	35Eta Oph	2.4300	10200.	76	32966	No
35	GOM_TRA_1PNPDE20080620_023528_000000362069_00347_32966_1761.N1	20-JUN-2008 02:35:28	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	32966	No
36	GOM_TRA_1PNPDE20080620_023734_000000362069_00347_32966_1762.N1	20-JUN-2008 02:37:34	Bright	35.500	120	1Del Oph	2.7340	3200.0	71	32966	No
37	GOM_TRA_1PNPDE20080620_023957_000000412069_00347_32966_1763.N1	20-JUN-2008 02:39:57	Bright	41.000	126	60Bet Oph	2.7700	4250.0	82	32966	No
38	GOM_TRA_1PNPDE20080620_024224_000000412069_00347_32966_1764.N1	20-JUN-2008 02:42:24	Bright	40.500	59	55Alp Oph	2.0800	8900.0	81	32966	No
39	GOM_TRA_1PNPDE20080620_024436_000000352069_00347_32966_1765.N1	20-JUN-2008 02:44:36	Bright	34.500	127	27Bet Her	2.7810	4700.0	69	32966	No
40	GOM_TRA_1PNPDE20080620_024732_000000362069_00347_32966_1766.N1	20-JUN-2008 02:47:32	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	32966	No
41	GOM_TRA_1PNPDE20080620_025407_000000392069_00347_32966_1767.N1	20-JUN-2008 02:54:07	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	32966	No
42	GOM_TRA_1PNPDE20080620_025557_000000342069_00347_32966_1768.N1	20-JUN-2008 02:55:57	Bright	33.500	119	14Eta Dra	2.7270	4700.0	67	32966	No
43	GOM_TRA_1PNPDE20080620_025936_000000372069_00347_32966_1769.N1	20-JUN-2008 02:59:36	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	32966	No
44	GOM_TRA_1PNPDE20080620_030408_000000362069_00347_32966_1770.N1	20-JUN-2008 03:04:08	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	32966	No
45	GOM_TRA_1PNPDE20080620_031123_000000612069_00347_32966_1928.N1	20-JUN-2008 03:11:23	Bright	61.000	76	27Gam Cas	2.3000	30000.	122	32966	Yes
46	GOM_TRA_1PNPDE20080620_031427_000000352069_00347_32966_1929.N1	20-JUN-2008 03:14:27	Bright	35.000	160	23Gam Per	2.9300	4700.0	70	32966	No
47	GOM_TRA_1PNPDE20080620_031753_000000412069_00347_32966_1930.N1	20-JUN-2008 03:17:53	Bright	41.000	73	57Gam1And	2.2600	13100.	82	32966	No
48	GOM_TRA_1PNPDE20080620_032014_000000462069_00347_32966_1931.N1	20-JUN-2008 03:20:14	Bright	45.500	173	4Bet Tri	3.0040	8900.0	91	32966	No
49	GOM_TRA_1PNPDE20080620_032358_000000502069_00347_32966_1932.N1	20-JUN-2008 03:23:58	Twilight	50.000	50	13Alp Ari	2.0070	4250.0	100	32966	No

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



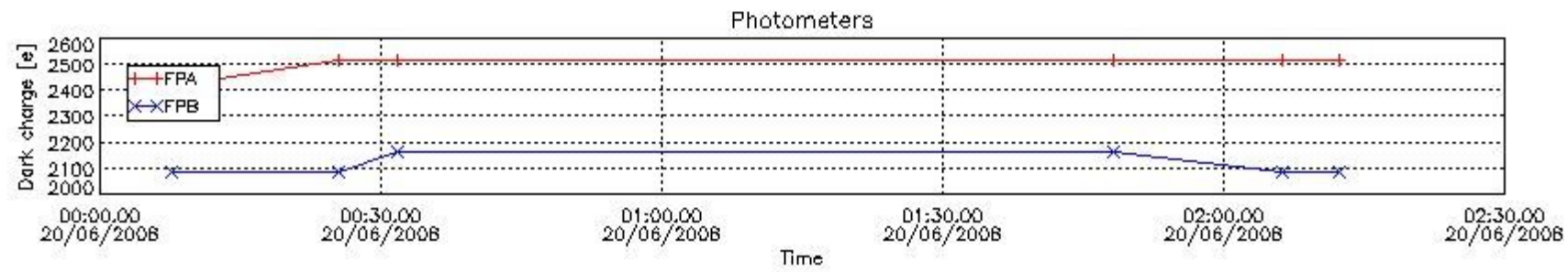
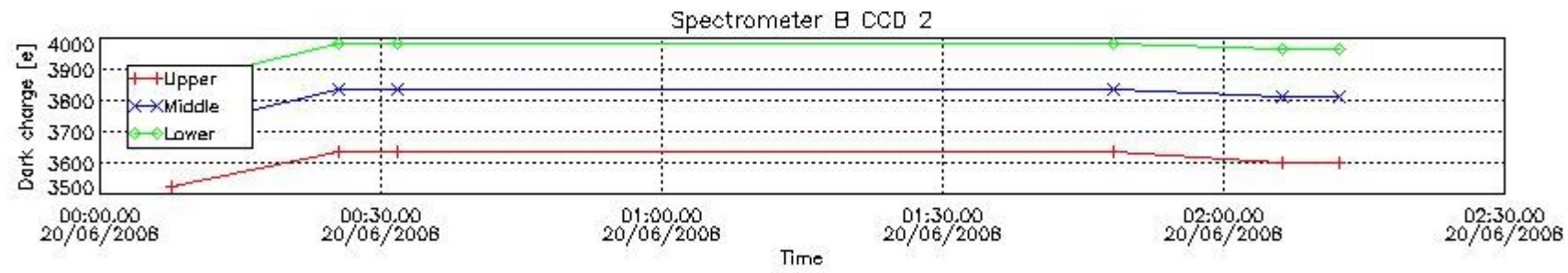
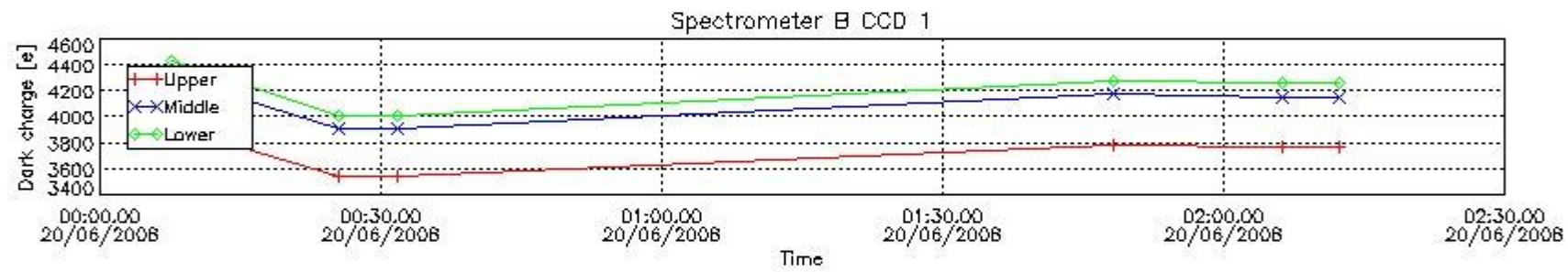
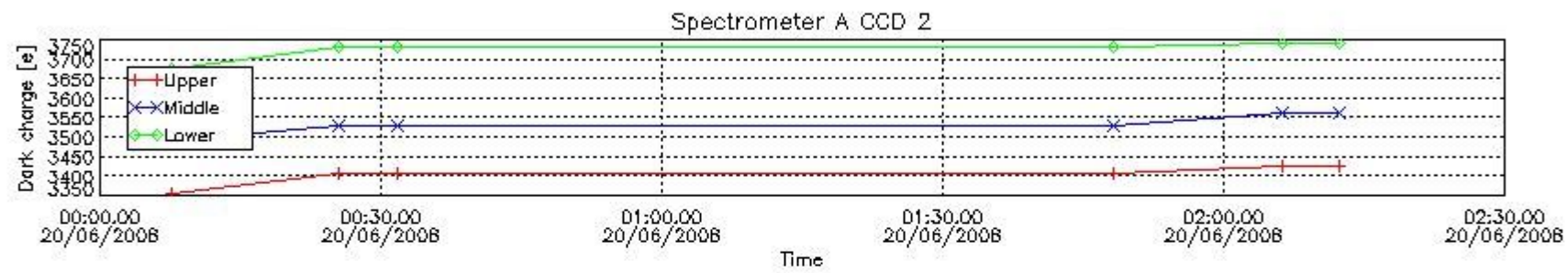
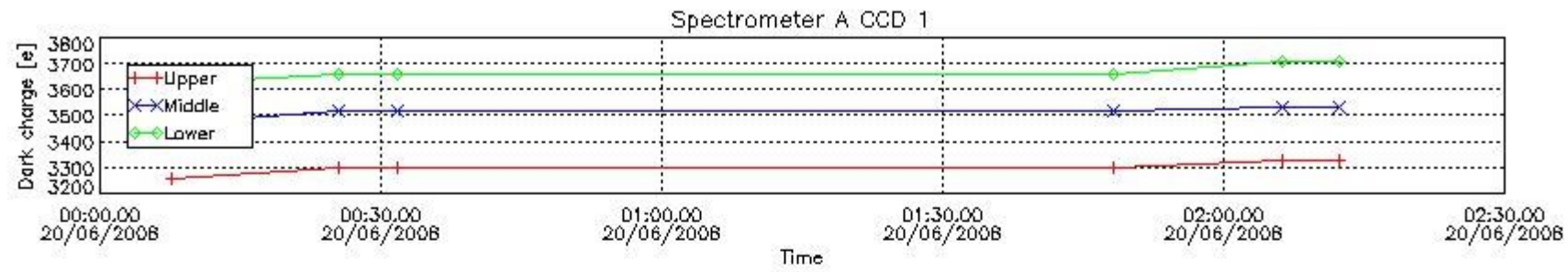
4. Overview of dark signal processing per product

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

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

4.1 All products used the DSA observation for the DC computation

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



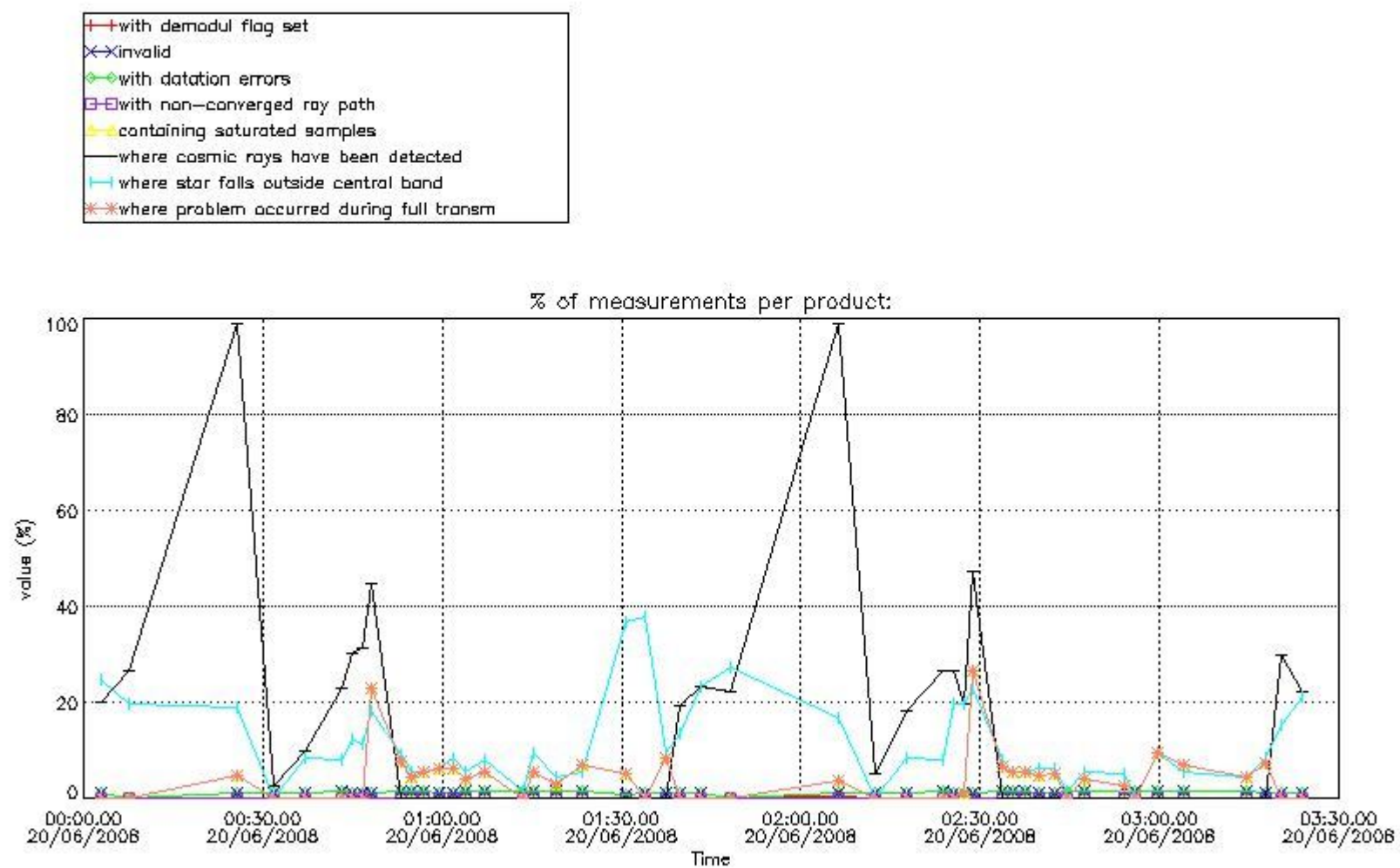
5. Demodulation flag and quality information monitoring

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

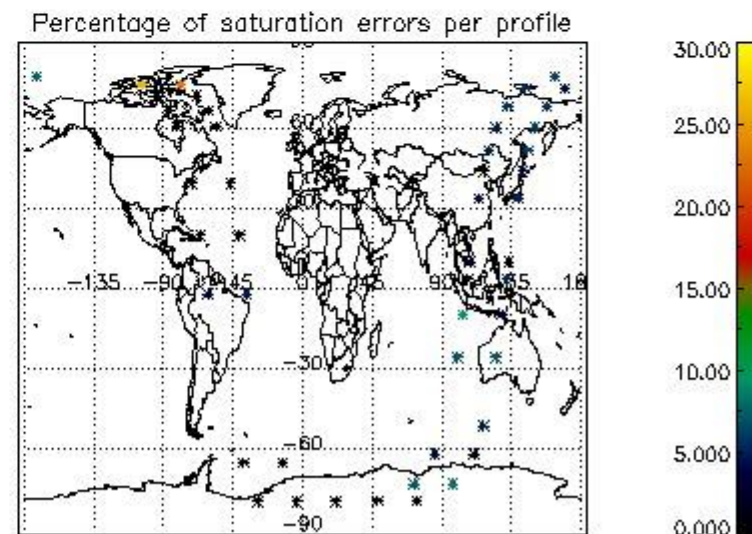
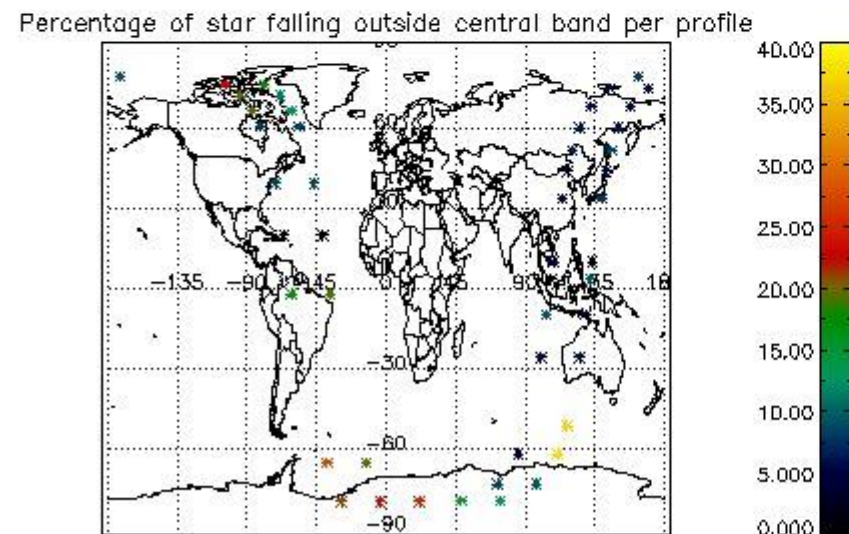
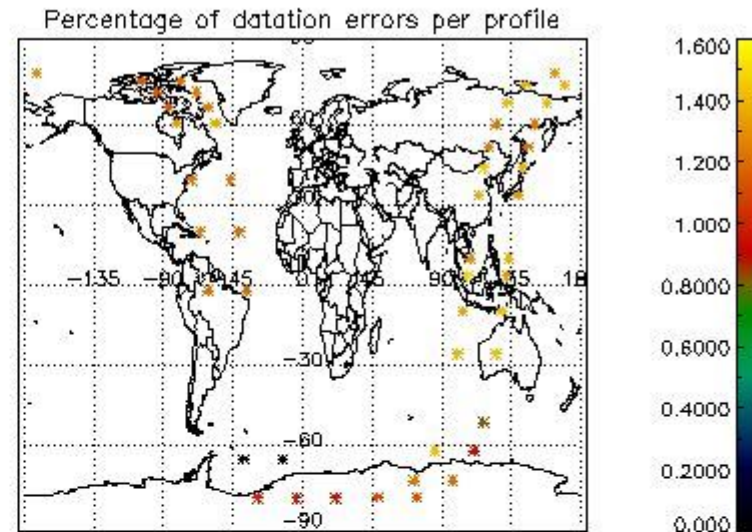
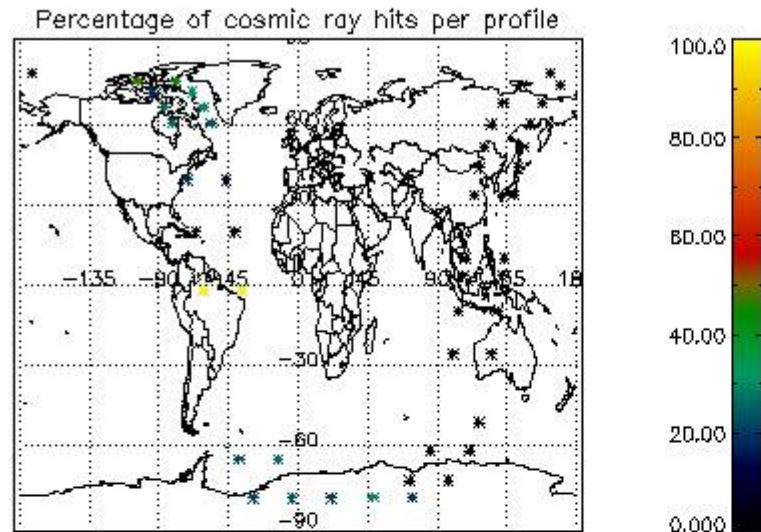
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.6667 %
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)



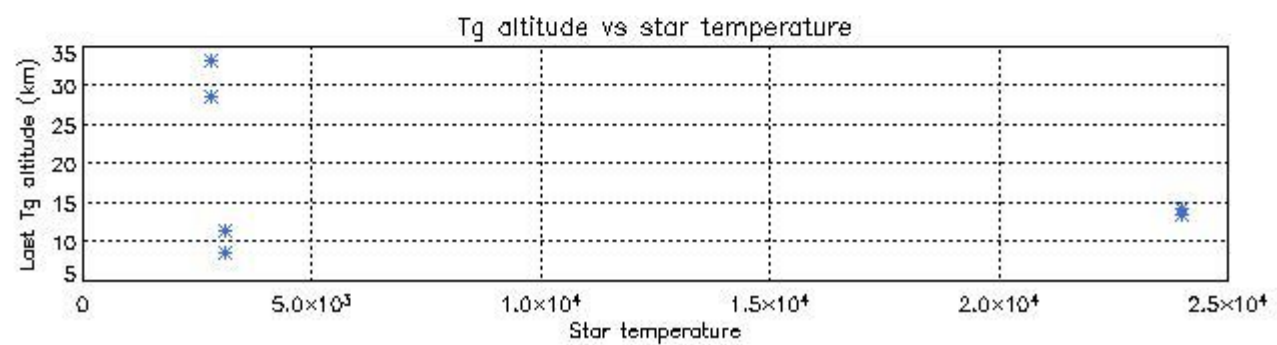
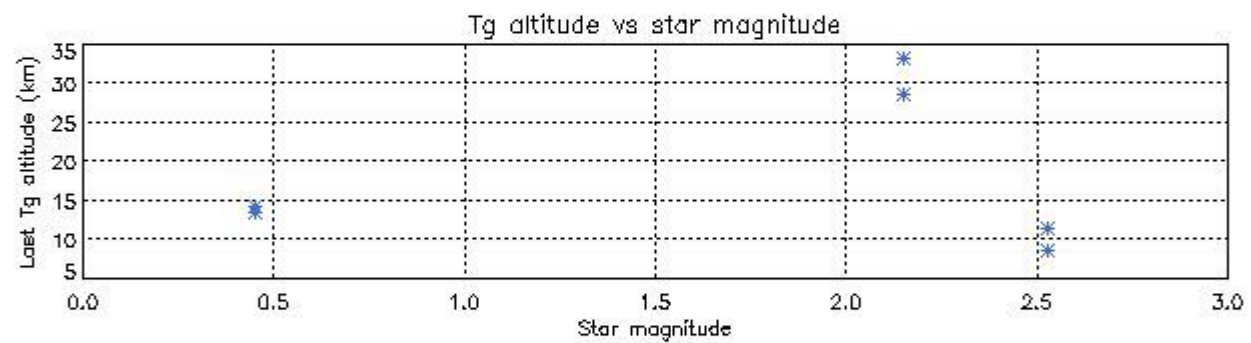
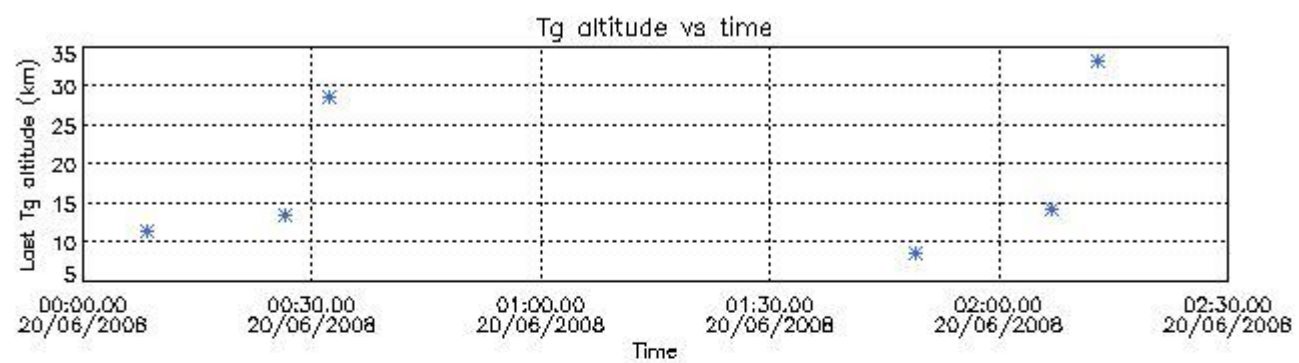
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	18.250	19.038	9.9375
St. deviation:	10.141	5.3294	0.60172
Maximum:	33.285	26.961	10.629
Minimum:	8.4959	3.5260	9.5301
Number of data:	6.0000	31.000	3.0000

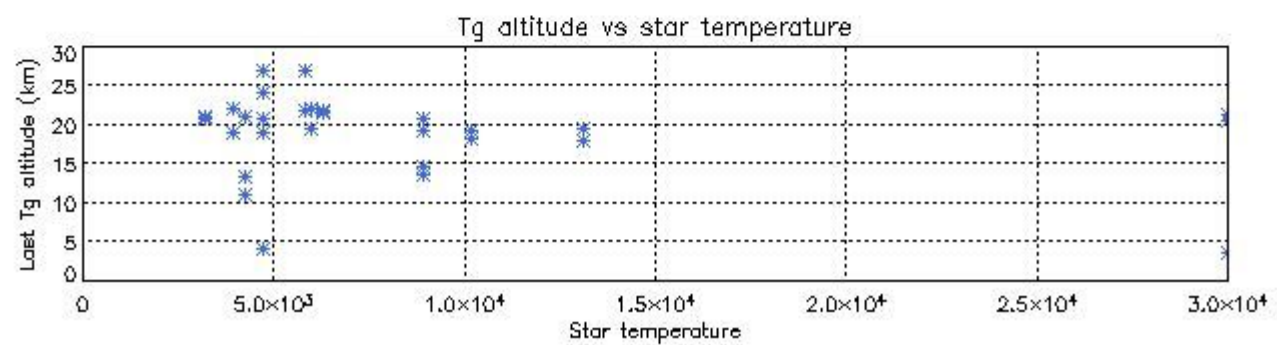
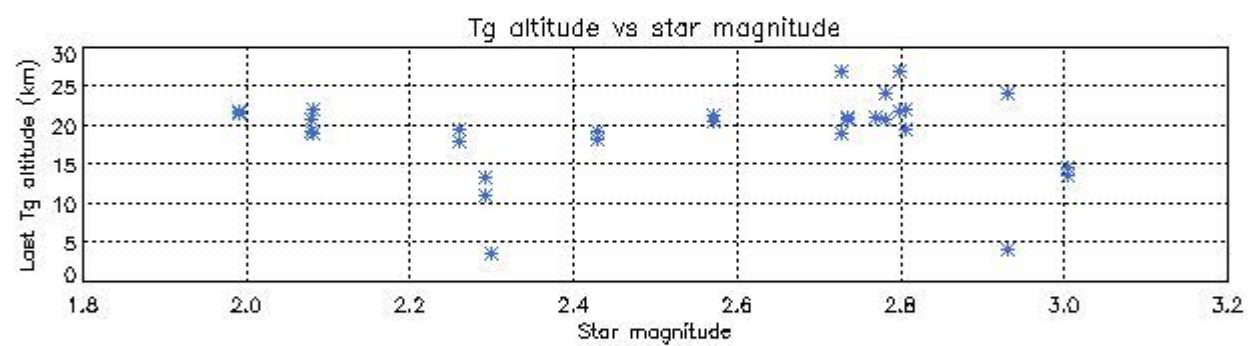
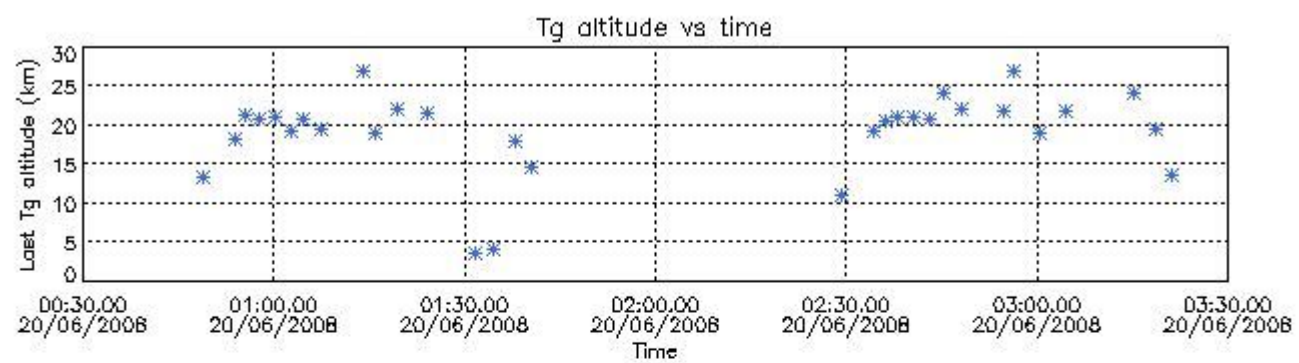
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



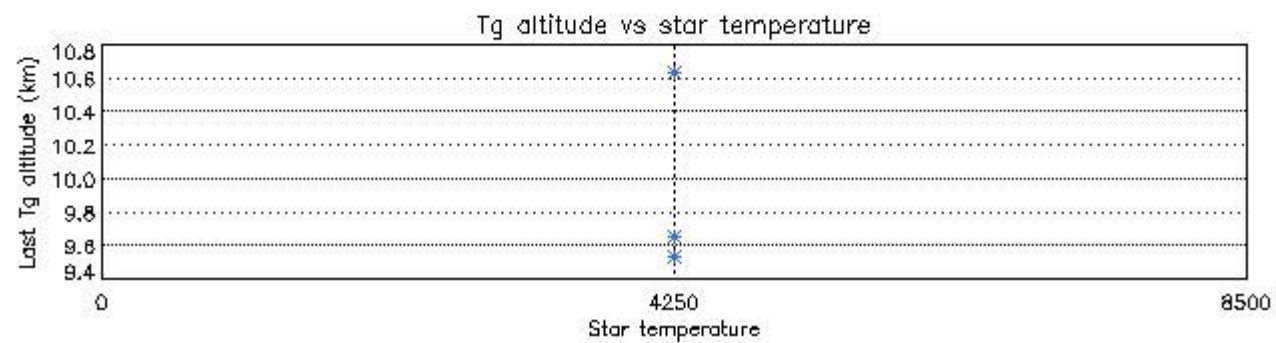
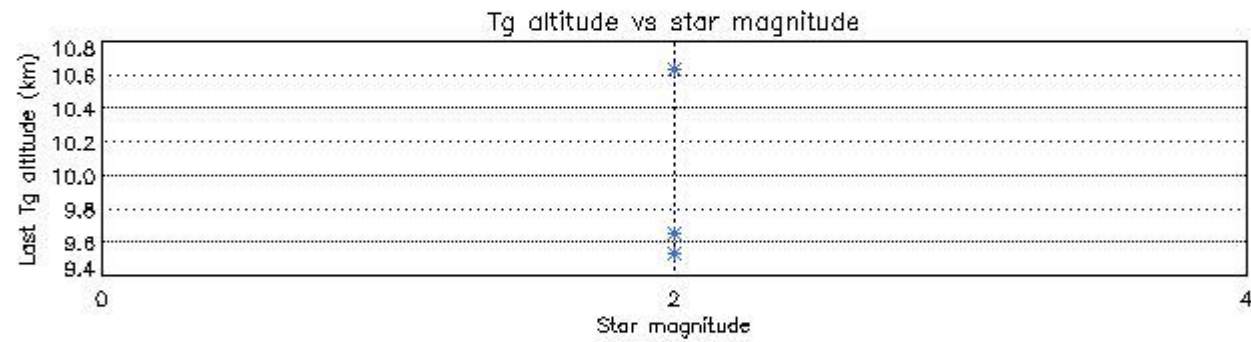
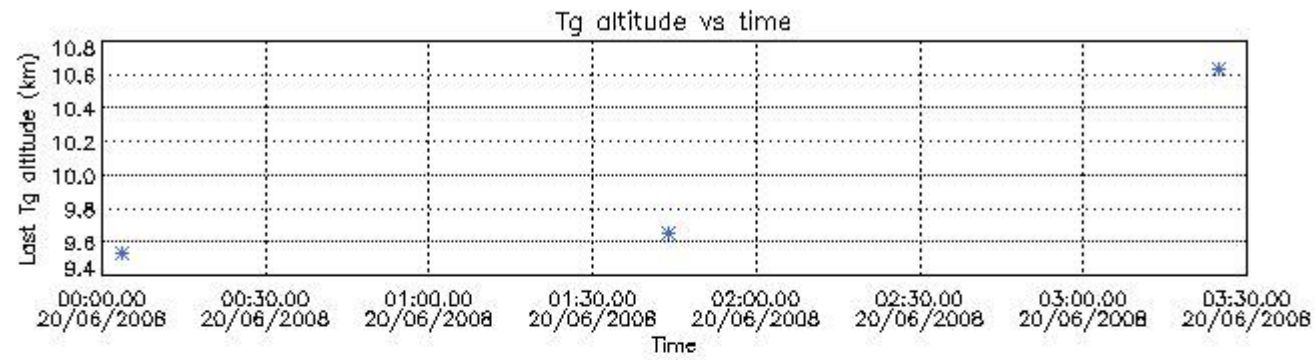
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

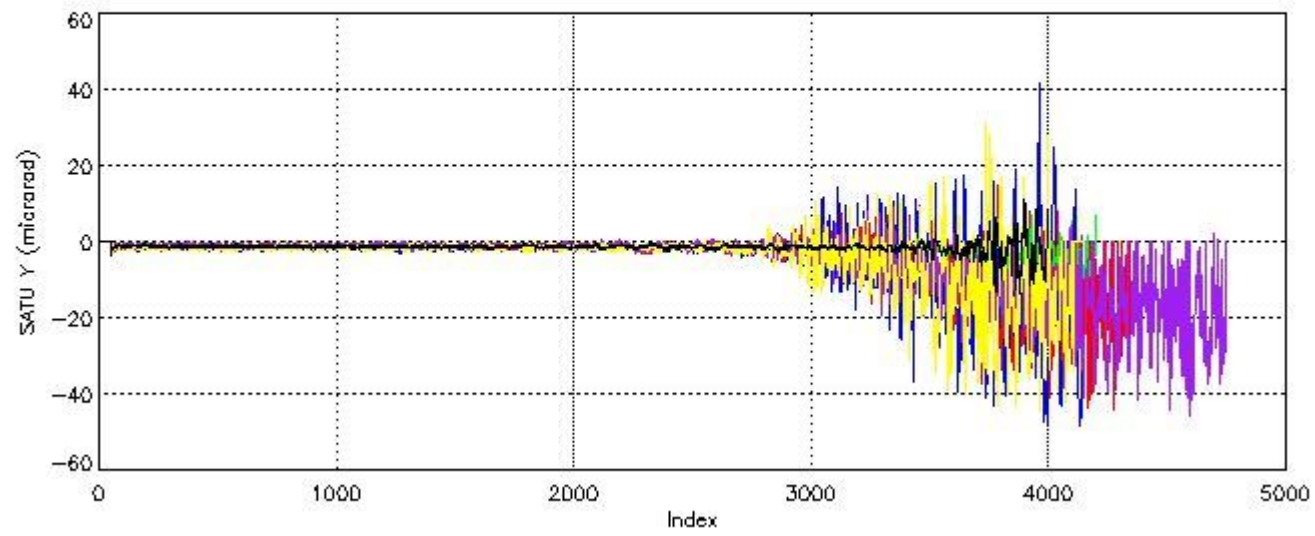
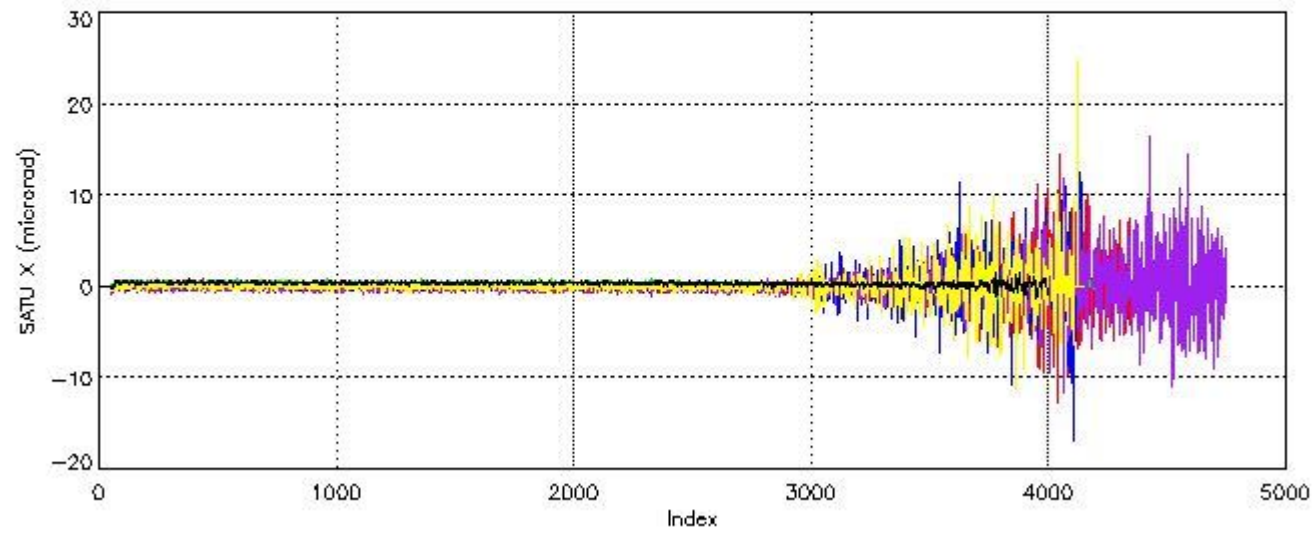


7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

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

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.11653	-1.3293	0.14151	-1.3623
St. deviation:	0.19183	0.49456	0.74233	1.1852
Maximum:	0.80000	1.4664E-14	4.4000	3.5000
Minimum:	-1.0000	-3.8000	-4.3000	-6.7000

Number of data:	5800.0	5800.0	26650.	26650.
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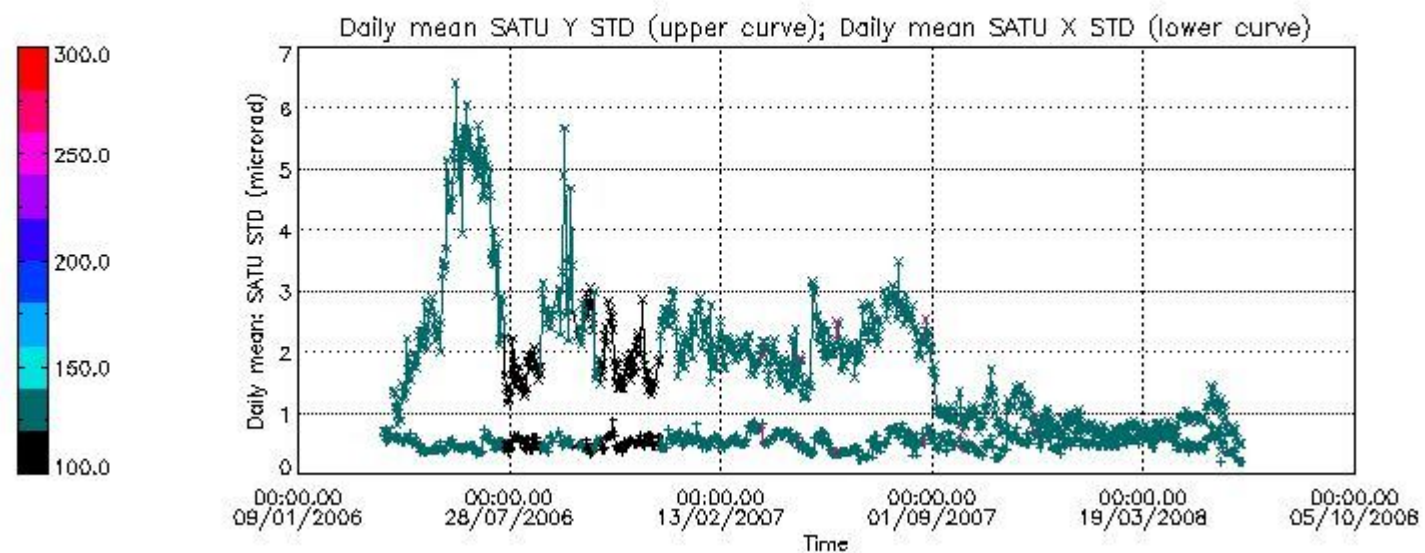
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

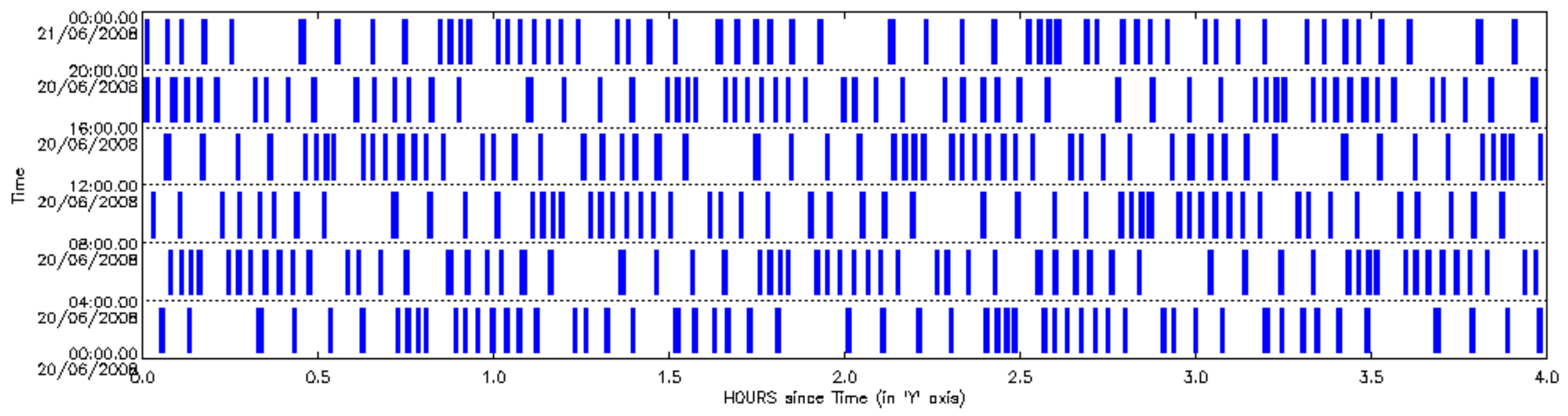
Lower curve: STD of SATU X axis

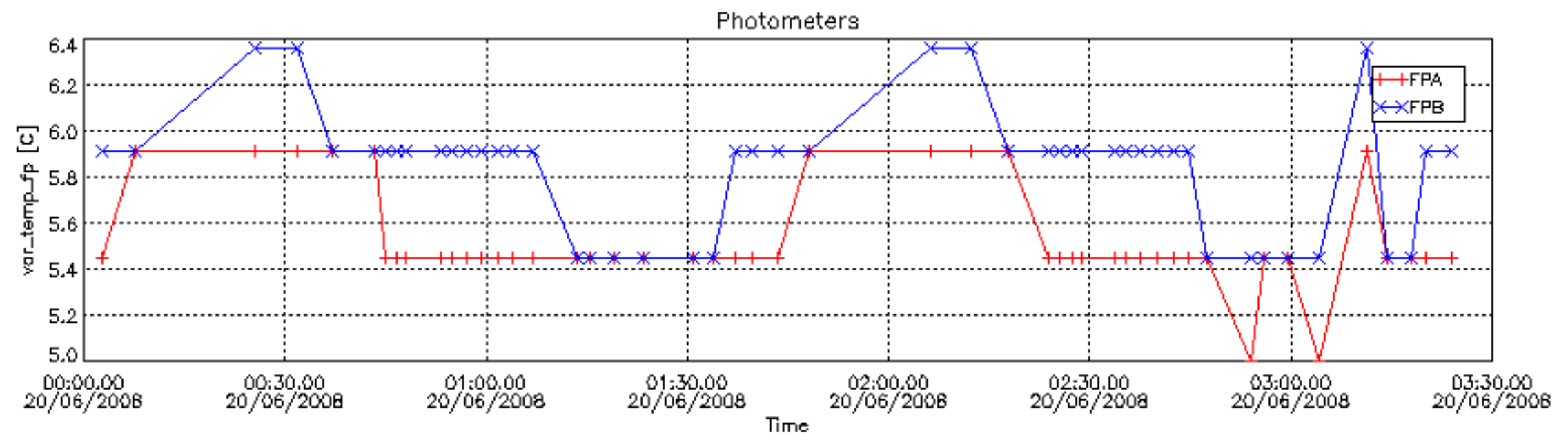
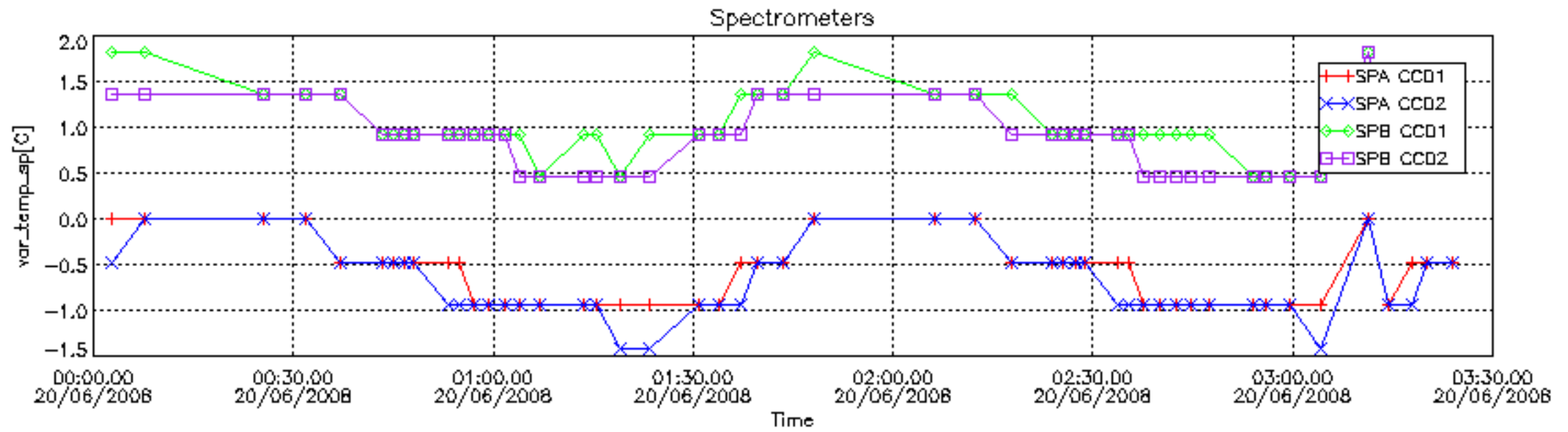


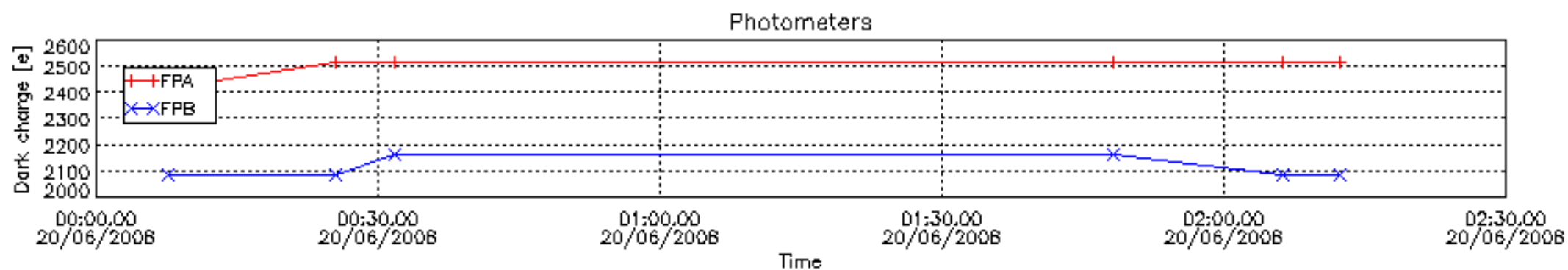
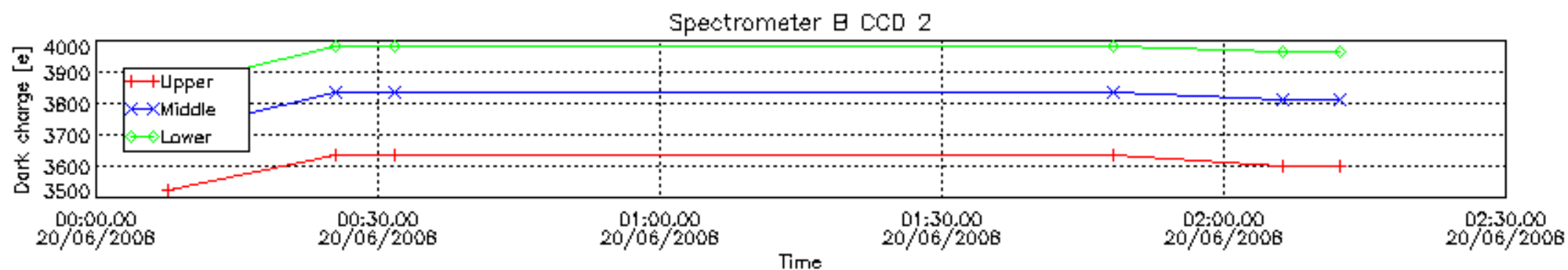
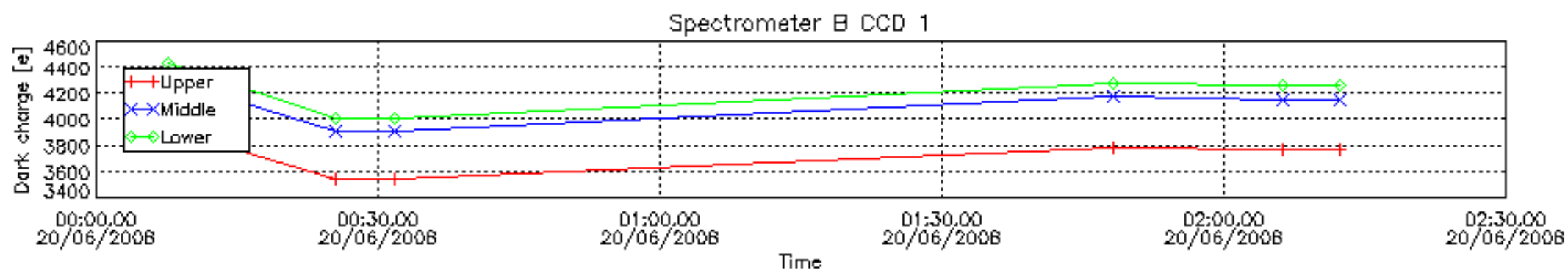
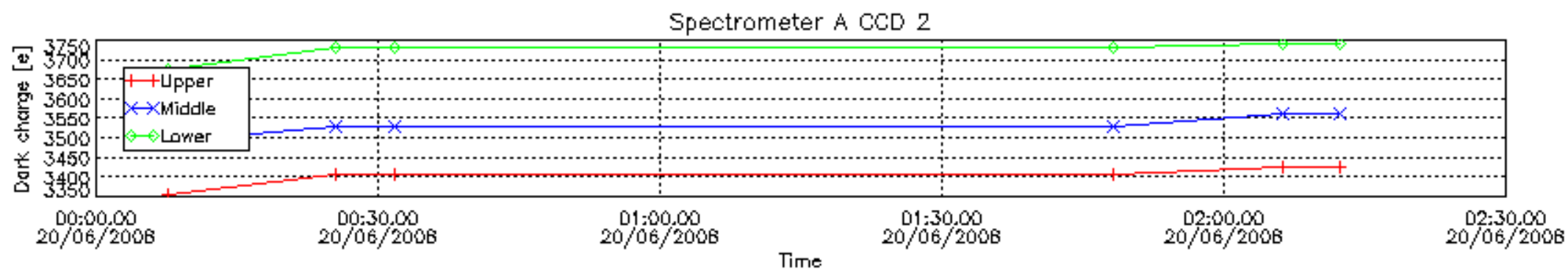
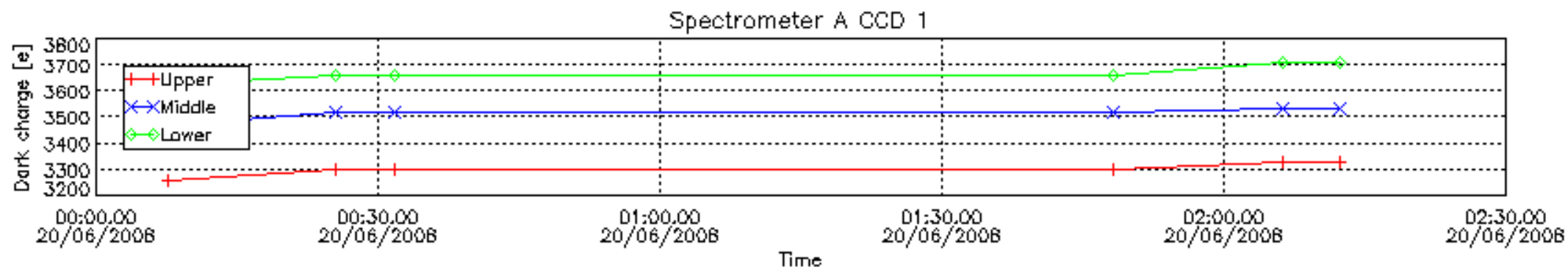
8. Auxiliary Data Files used for the production reported in section 2.4

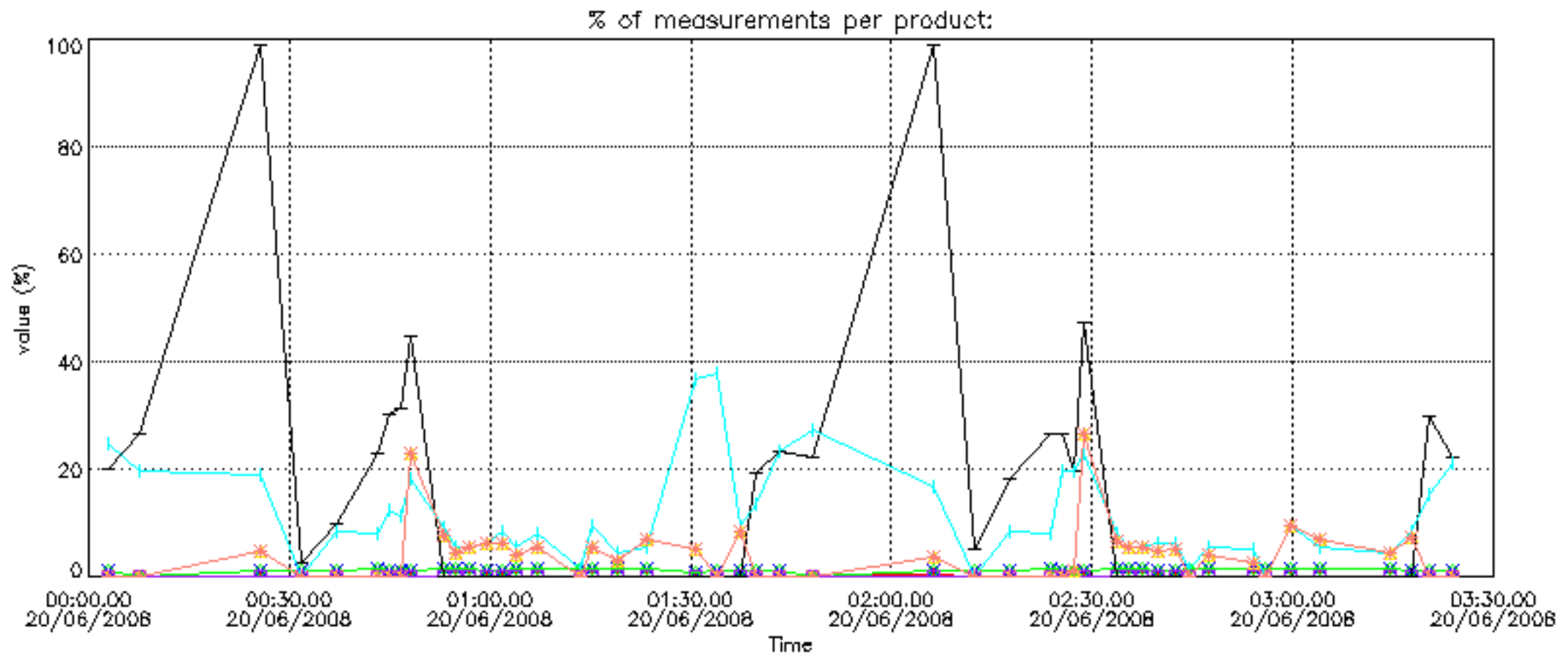
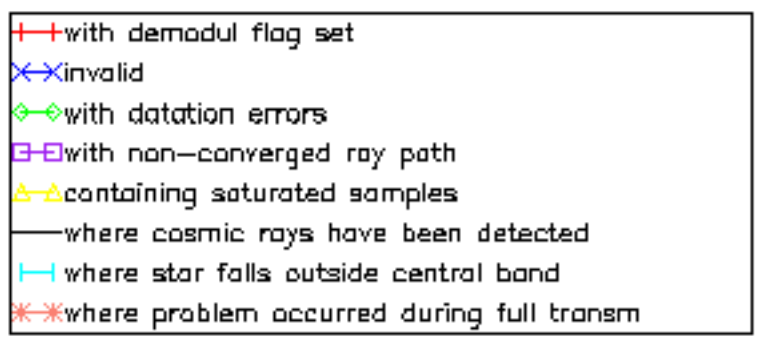
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	20-JUN-2008 00:02:46
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080609_083139_20080607_000000_20100101_000000	1	20-JUN-2008 00:02:46
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	20-JUN-2008 00:02:46
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	20-JUN-2008 00:02:46
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	20-JUN-2008 00:02:46
ECMWF_FILE	AUX_ECF_AXNECM20080619_072113_20080619_210000_20080620_090000	1	20-JUN-2008 00:02:46
ECMWF_FILE	AUX_ECF_AXNECM20080619_192112_20080620_030000_20080620_150000	45	20-JUN-2008 03:11:23
OPTIONAL_ECMWF_FILE	MISSING	1	20-JUN-2008 00:02:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080619_204606_000060572069_00343_32962_5772.N1	1	20-JUN-2008 00:02:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080619_223222_000057382069_00344_32963_5773.N1	3	20-JUN-2008 00:25:34
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080620_000800_000057382069_00345_32964_5774.N1	27	20-JUN-2008 02:06:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080620_014857_000044632069_00346_32965_5775.N1	45	20-JUN-2008 03:11:23

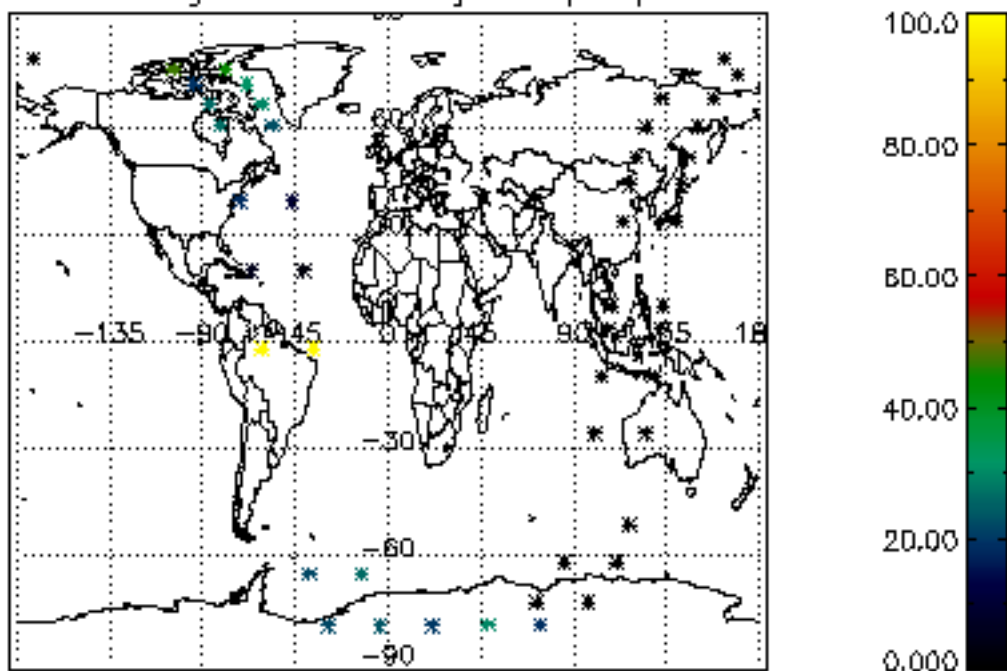




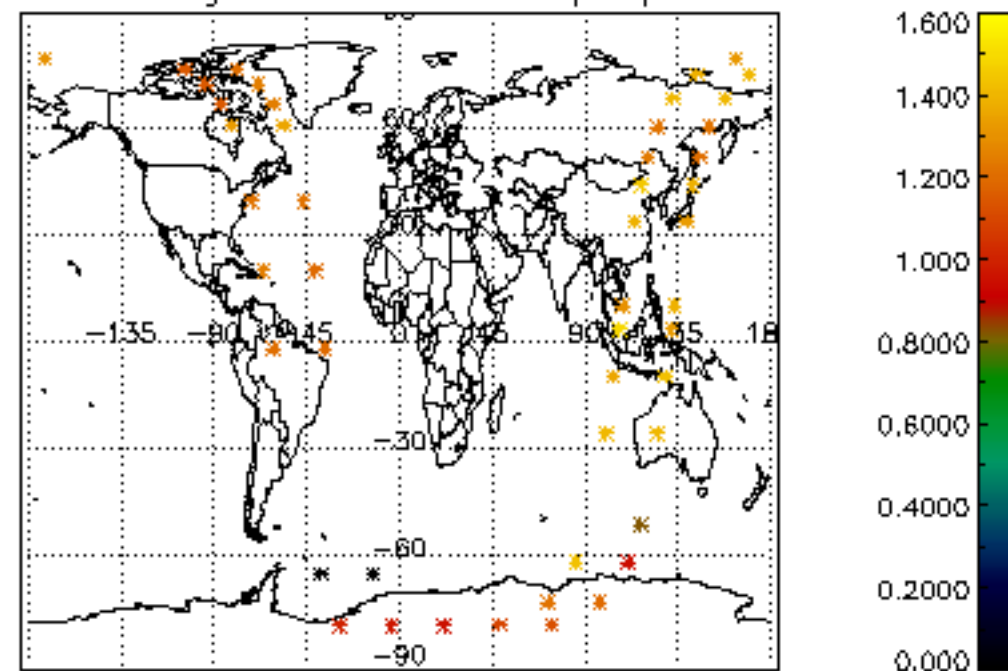




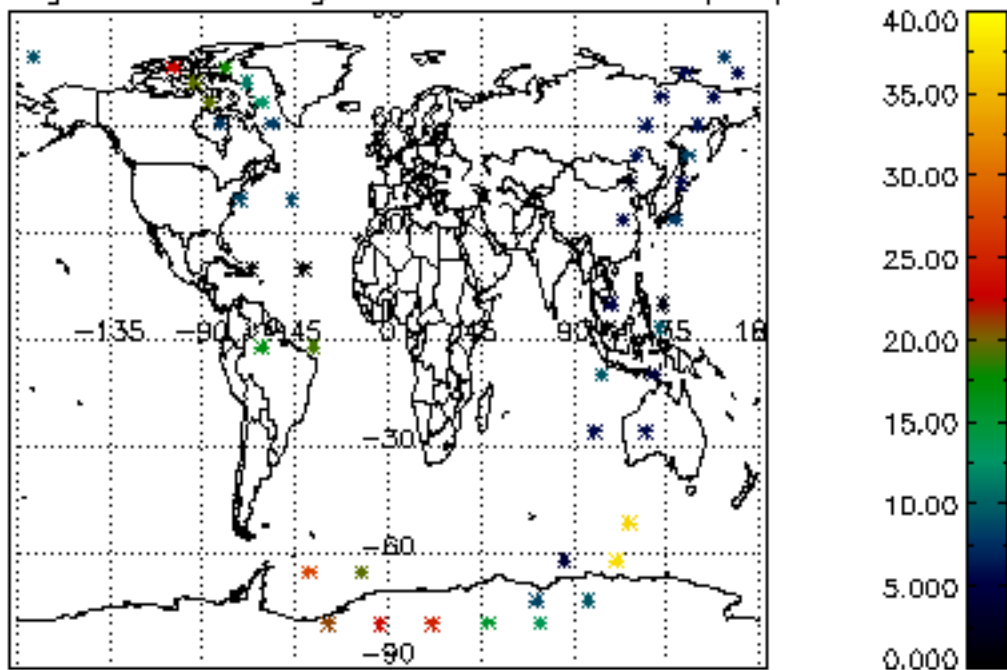
Percentage of cosmic ray hits per profile



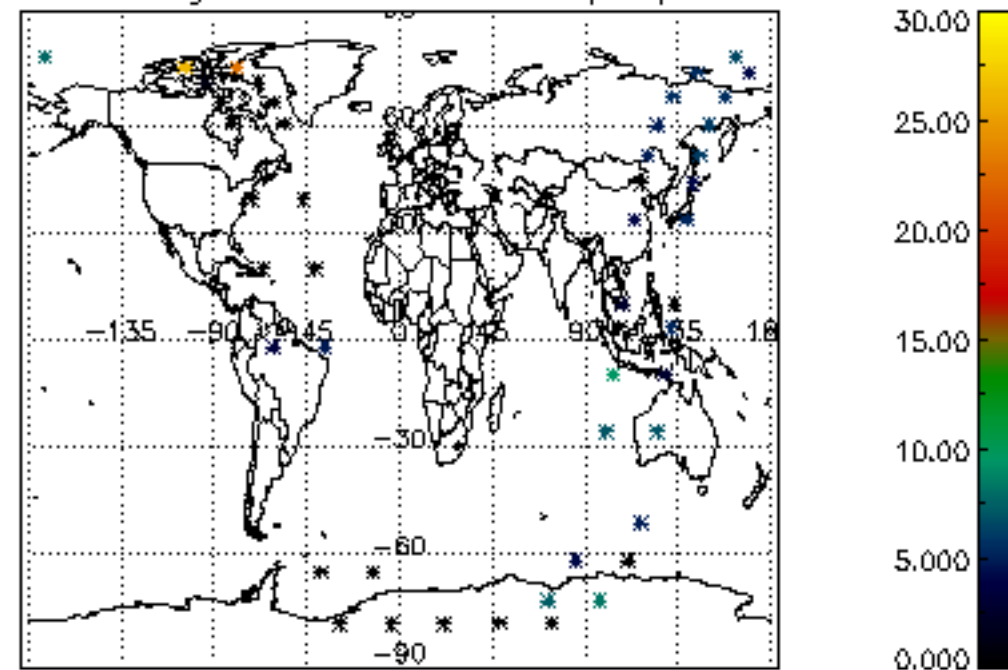
Percentage of datation errors per profile



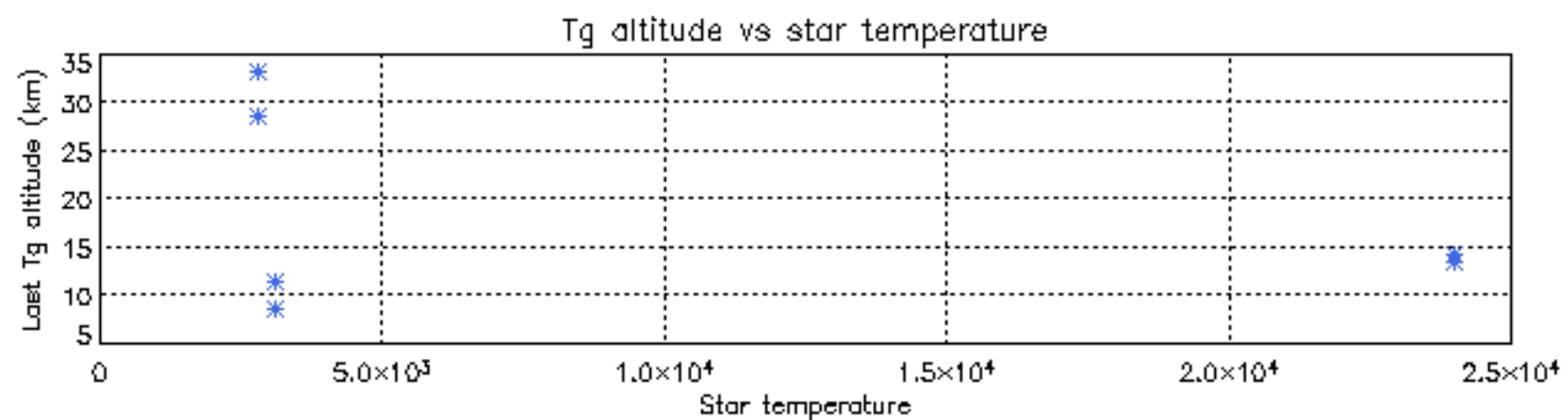
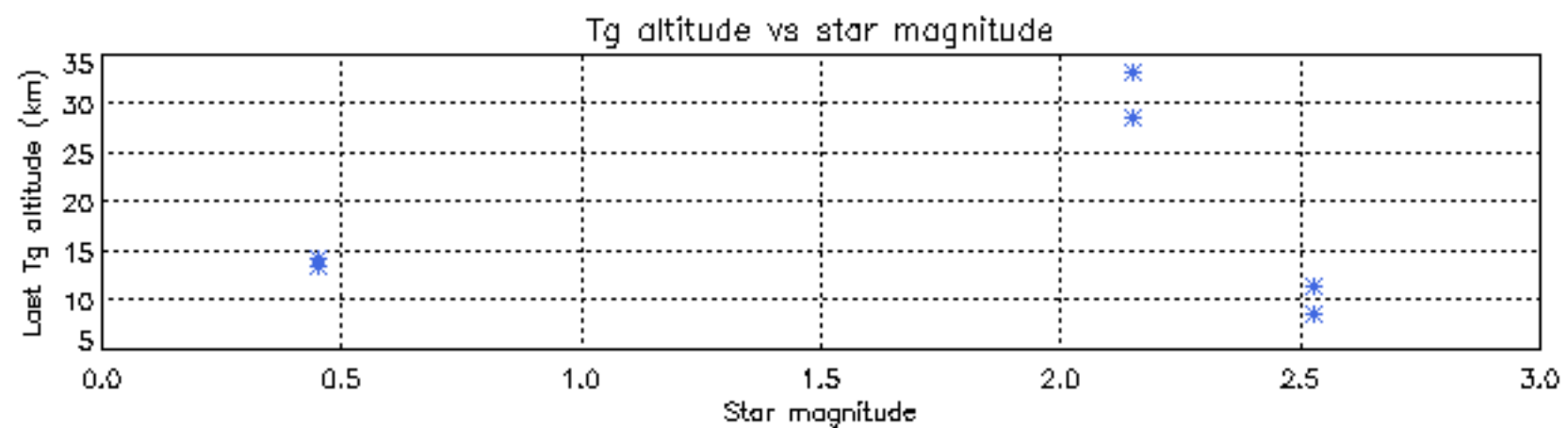
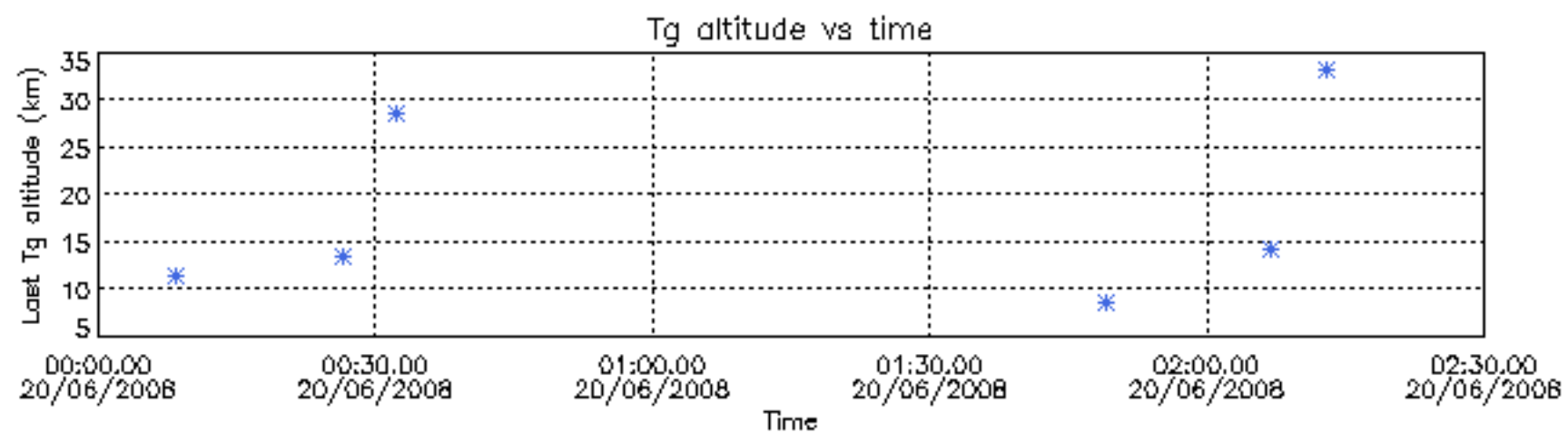
Percentage of star falling outside central band per profile



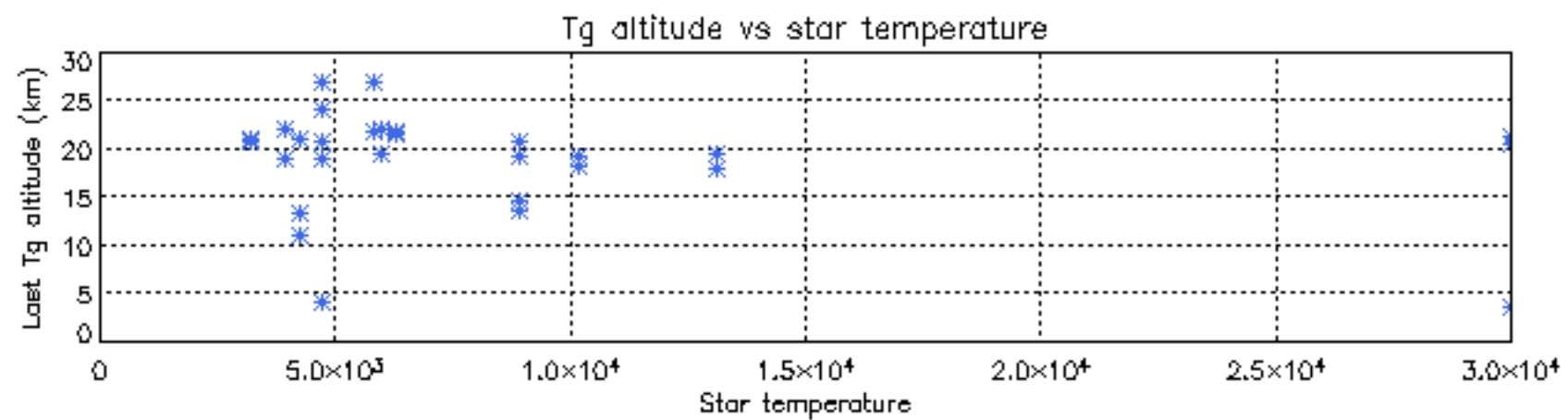
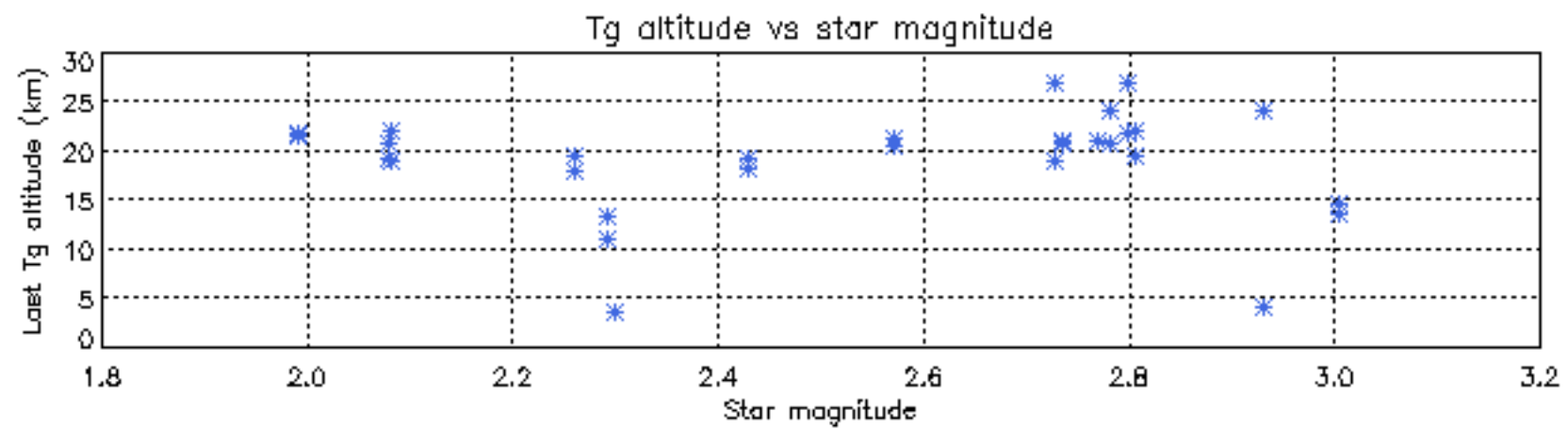
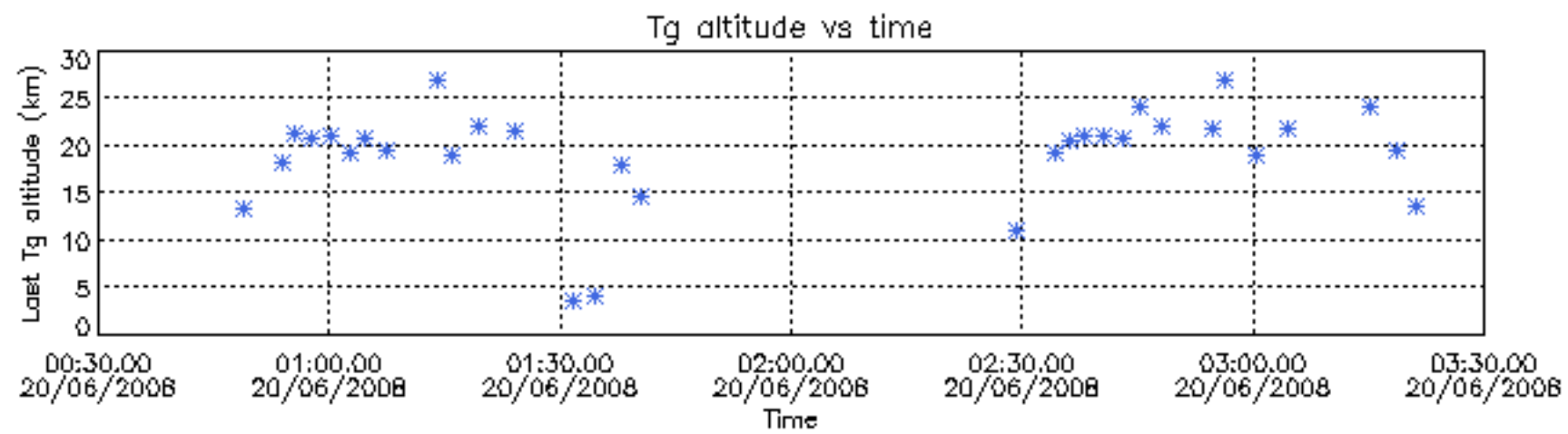
Percentage of saturation errors per profile



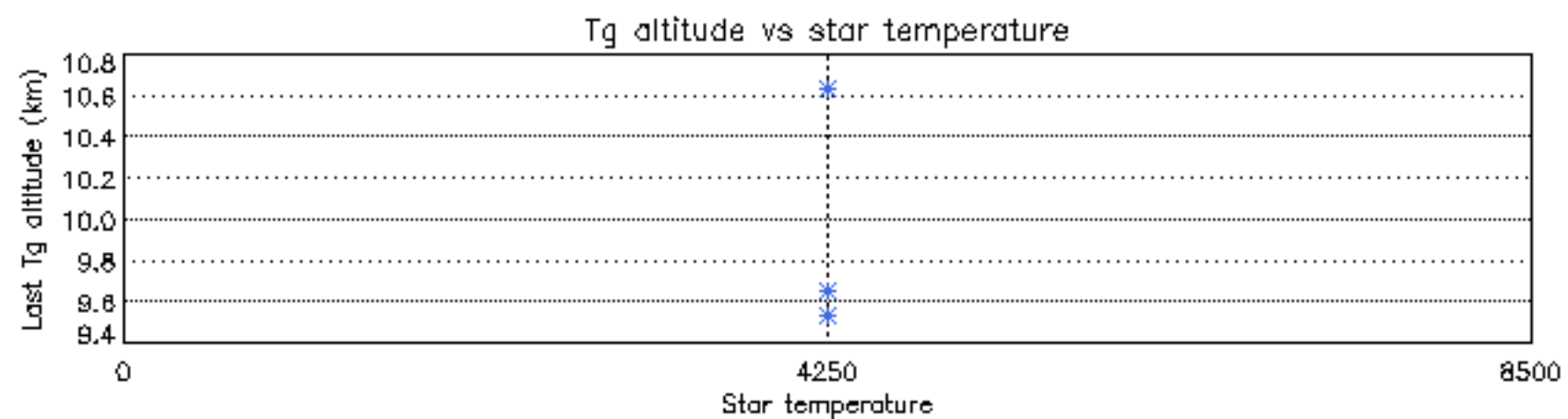
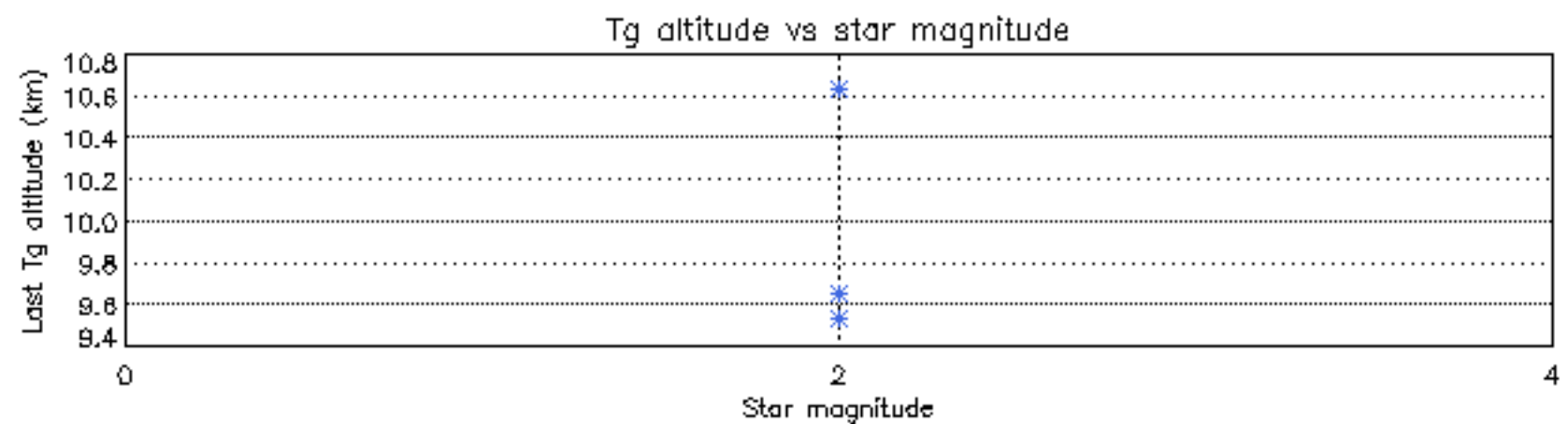
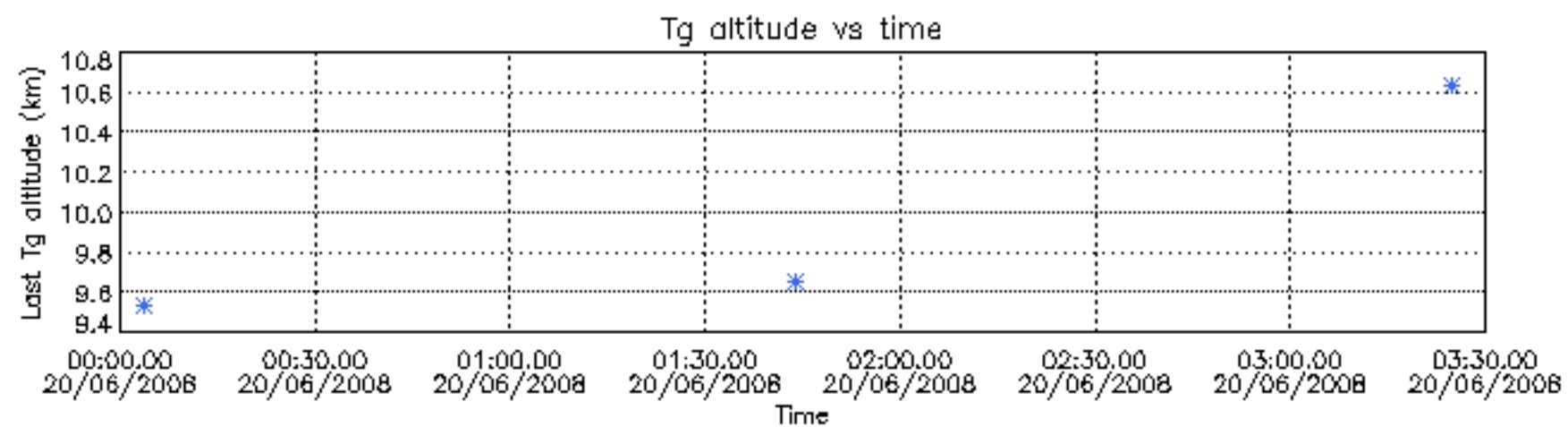
Tangent altitude at which the star is lost

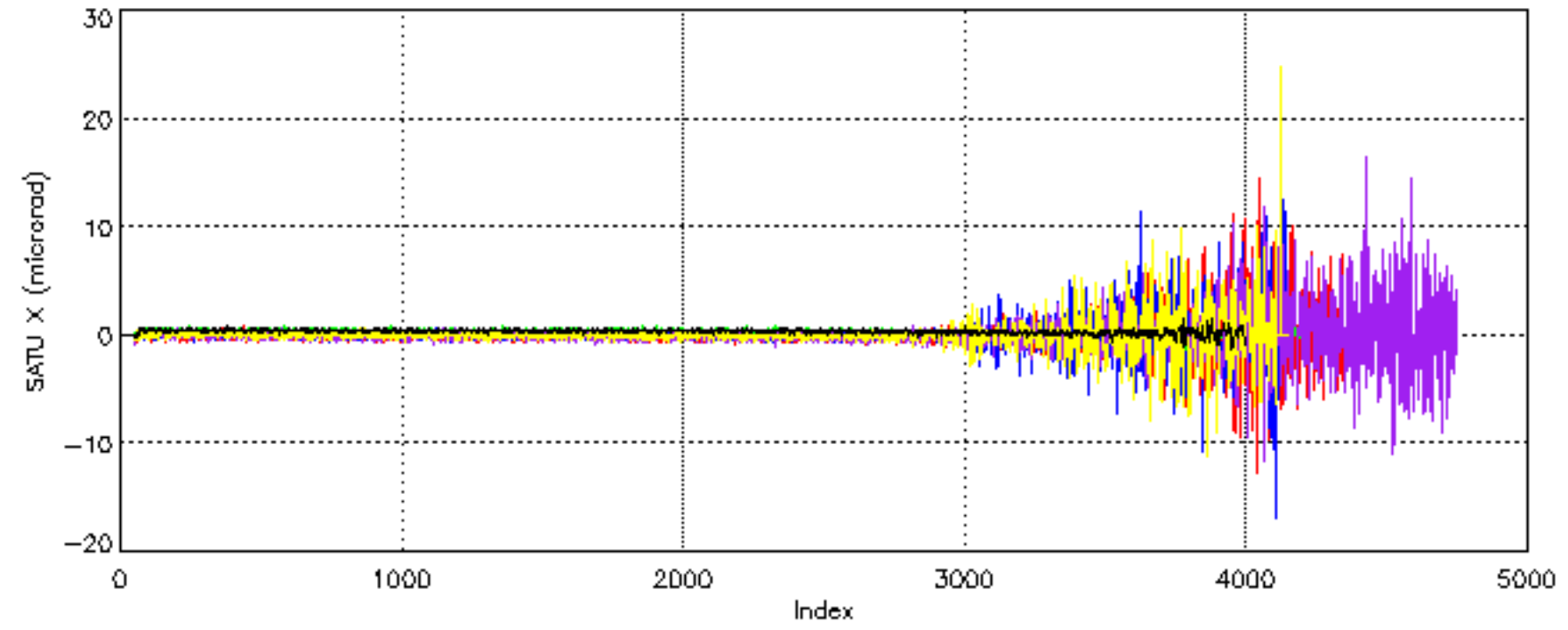


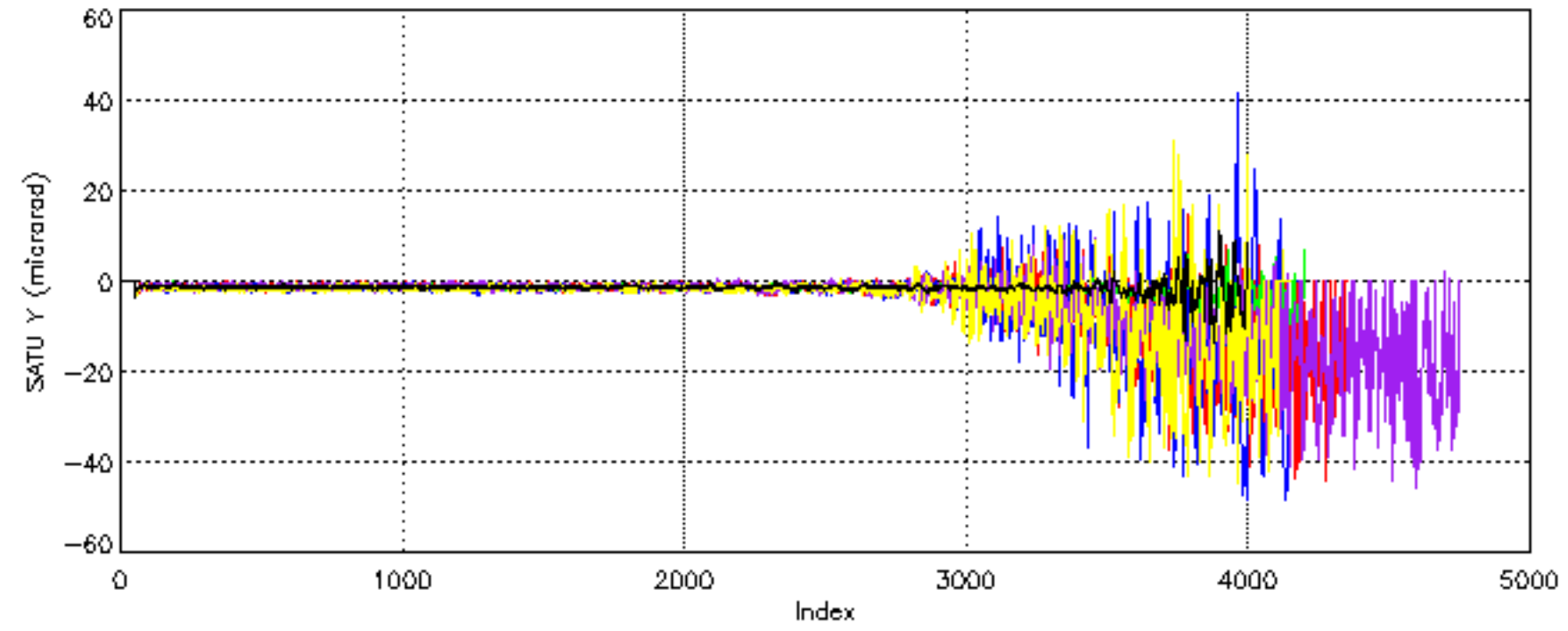
Tangent altitude at which the star is lost

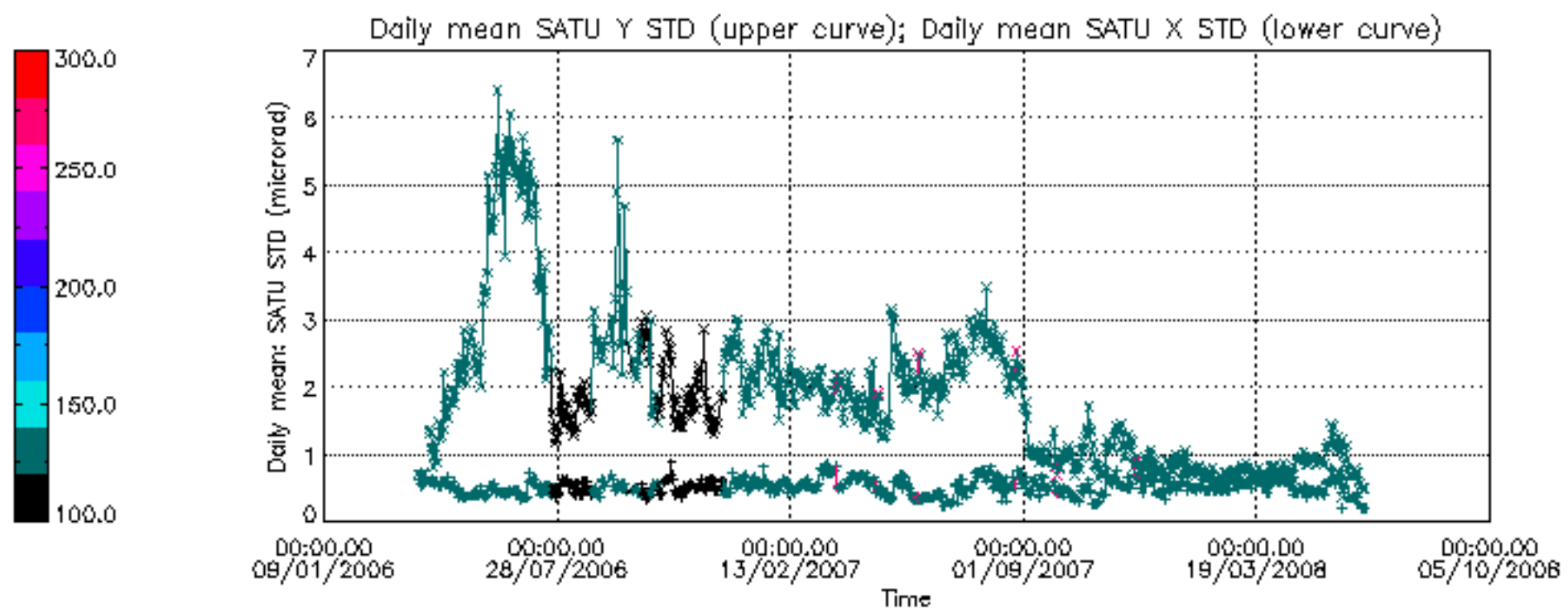


Tangent altitude at which the star is lost









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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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1; -750.3; 01-JUN-2008 01:51:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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
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 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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 14; 1703.0; 01-JUN-2008 02:32:12; Bright; 41.0; 98; 13Zet Oph ; 2.57; 30000;occ; 82; 0;32694
 15; 1834.1; 01-JUN-2008 02:34:23; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;32694
 16; 2014.7; 01-JUN-2008 02:37:23; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;32694
 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
 19; 3003.4; 01-JUN-2008 02:53:52; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;32694
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1; -2410.1; 01-JUN-2008 03:04:14; Bright; 46.0; 89; 5Alp Cep ; 2.45; 8000;occ; 92; 0;32694
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 6; -749.4; 01-JUN-2008 03:31:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32694
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 9; 82.7; 01-JUN-2008 03:45:47; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;32695
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 11; 492.5; 01-JUN-2008 03:52:37; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;32695
 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
 14; 1147.0; 01-JUN-2008 04:03:32; Dark ; 47.5; 25; 35Lam Sco ; 1.62; 28000;occ; 95; 0;32695
 15; 1252.8; 01-JUN-2008 04:05:17; Dark ; 44.5; 75; 26Eps Sco ; 2.29; 4250;occ; 89; 0;32695
 16; 1374.6; 01-JUN-2008 04:07:19; Dark ; 49.5; 136; 23Tau Sco ; 2.82; 30000;occ; 99; 0;32695
 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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 2; -2107.3; 01-JUN-2008 04:49:53; Bright; 56.0; 76; 27Gam Cas ; 2.30; 30000;occ; 112; 0;32695
 3; -1641.2; 01-JUN-2008 04:57:39; Bright; 40.0; 53; 43Bet And ; 2.05; 3300;occ; 80; 0;32695
 4; -1478.5; 01-JUN-2008 05:00:22; Dark ; 54.0; 58; 21Alp And ; 2.07; 11000;occ; 108; 0;32695
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 6; -748.5; 01-JUN-2008 05:12:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32695
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 8; -113.0; 01-JUN-2008 05:23:08; Dark ; 55.0; 18; 24Alp PsA ; 1.17; 9700;occ; 110; 0;32695
 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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20; 1834.2; 01-JUN-2008 05:55:35; Bright; 39.0; 120; 1Del Oph ; 2.73; 3200;occ; 78; 0;32696
21; 2014.9; 01-JUN-2008 05:58:36; Bright; 36.0; 102; 24Alp Ser ; 2.60; 4250;occ; 72; 0;32696
22; 2368.5; 01-JUN-2008 06:04:29; Bright; 36.5; 67; 5Alp CrB ; 2.22; 11000;occ; 73; 0;32696
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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 4; 1255.7; 01-JUN-2008 20:51:20; Dark ; 45.5; 75; 26Eps Sco ; 2.29; 4250;occ; 91; 0;32705
 5; 1376.8; 01-JUN-2008 20:53:21; Dark ; 56.0; 136; 23Tau Sco ; 2.82; 30000;occ; 112; 0;32705
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 8; 1834.0; 01-JUN-2008 21:00:58; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;32705
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 7; 3923.7; 04-JUN-2008 09:57:21; Bright; 56.0; 76; 27Gam Cas ; 2.30; 30000;occ; 112; 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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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
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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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 13; 5332.0; 04-JUN-2008 12:01:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32742
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 23; 7302.5; 04-JUN-2008 12:34:16; Dark ; 44.5; 75; 26Eps Sco ; 2.29; 4250;occ; 89; 0;32742
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 3; 2014.7; 04-JUN-2008 12:46:44; Bright; 53.0; 102; 24Alp Ser ; 2.60; 4250;occ; 106; 0;32743
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 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
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 16; 5986.4; 04-JUN-2008 13:52:56; Dark ; 56.0; 18; 24Alp PsA ; 1.17; 9700;occ; 112; 0;32743
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 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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 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
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 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
 10; 4399.6; 04-JUN-2008 15:07:05; Bright; 50.5; 53; 43Bet And ; 2.05; 3300;occ; 101; 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
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 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
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 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
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 9; 2942.9; 04-JUN-2008 16:23:24; Bright; 45.0; 130; 23Bet Dra ; 2.80; 5800;occ; 90; 0;32745
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 19; 5989.2; 04-JUN-2008 17:14:10; Dark ; 68.0; 18; 24Alp PsA ; 1.17; 9700;occ; 136; 0;32745
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 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
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 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
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 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
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 5; 1596.9; 04-JUN-2008 19:22:10; Bright; 43.0; 86; 35Eta Oph ; 2.43; 10200;occ; 86; 0;32747
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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
14; 4405.5; 09-JUN-2008 19:11:30; Dark ; 58.0; 53; 43Bet And ; 2.05; 3300;occ; 116; 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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13; 2030.5; 10-JUN-2008 01:14:19; Bright; 47.5; 126; 60Bet Oph ; 2.77; 4250;occ; 95; 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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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
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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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 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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 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
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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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19; 6378.7; 11-JUN-2008 18:41:09; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;32846
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21; 6628.8; 11-JUN-2008 18:45:19; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;32846

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4; 1712.9; 11-JUN-2008 19:03:59; Bright; 37.5; 98; 13Zet Oph ; 2.57; 30000;occ; 75; 0;32847
5; 2022.3; 11-JUN-2008 19:09:09; Bright; 46.0; 126; 60Bet Oph ; 2.77; 4250;occ; 92; 0;32847
6; 2177.8; 11-JUN-2008 19:11:44; Bright; 47.5; 59; 55Alp Oph ; 2.08; 8900;occ; 95; 0;32847
7; 2283.3; 11-JUN-2008 19:13:30; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;32847
8; 2470.7; 11-JUN-2008 19:16:37; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;32847
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11; 3907.4; 11-JUN-2008 19:40:34; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;32847
12; 4267.7; 11-JUN-2008 19:46:34; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;32847
13; 4407.8; 11-JUN-2008 19:48:54; Dark ; 56.0; 53; 43Bet And ; 2.05; 3300;occ; 112; 0;32847
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15; 5399.1; 11-JUN-2008 20:05:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32847
16; 5511.4; 11-JUN-2008 20:07:18; Dark ; 53.5; 52; 16Bet Cet ; 2.04; 4500;occ; 107; 0;32847
17; 5895.5; 11-JUN-2008 20:13:42; Dark ; 41.5; 84; Alp Phe ; 2.40; 4500;occ; 83; 0;32847
18; 6257.7; 11-JUN-2008 20:19:44; Dark ; 54.0; 63; Bet Gru ; 2.15; 2800;occ; 108; 0;32847
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21; 6629.3; 11-JUN-2008 20:25:56; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;32847

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6; 2893.9; 11-JUN-2008 07:39:29; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;32840
7; 3533.6; 11-JUN-2008 07:50:09; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;32840
8; 3908.7; 11-JUN-2008 07:56:24; Bright; 58.0; 76; 27Gam Cas ; 2.30; 30000;occ; 116; 0;32840
9; 4267.4; 11-JUN-2008 08:02:22; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;32840
10; 4407.3; 11-JUN-2008 08:04:42; Dark ; 55.0; 53; 43Bet And ; 2.05; 3300;occ; 110; 0;32840
11; 4607.5; 11-JUN-2008 08:08:02; Dark ; 44.5; 50; 13Alp Ari ; 2.01; 4250;occ; 89; 0;32840
12; 5392.5; 11-JUN-2008 08:21:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32840
13; 5505.0; 11-JUN-2008 08:23:00; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;32840
14; 5890.5; 11-JUN-2008 08:29:26; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;32840
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16; 6372.8; 11-JUN-2008 08:37:28; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;32840
17; 6466.0; 11-JUN-2008 08:39:01; Dark ; 57.5; 172; Gam Gru ; 3.00; 13100;occ; 115; 0;32840
18; 6625.0; 11-JUN-2008 08:41:40; Dark ; 46.5; 45; Alp Pav ; 1.94; 26000;occ; 93; 0;32840
19; 7236.2; 11-JUN-2008 08:51:51; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;32840
20; 7336.4; 11-JUN-2008 08:53:31; Dark ; 64.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 128; 0;32840
21; 7642.9; 11-JUN-2008 08:58:38; Bright; 38.5; 86; 35Eta Oph ; 2.43; 10200;occ; 77; 0;32840
22; 7748.3; 11-JUN-2008 09:00:23; Bright; 37.0; 98; 13Zet Oph ; 2.57; 30000;occ; 74; 0;32840

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3; 2023.6; 11-JUN-2008 12:26:46; Bright; 46.5; 126; 60Bet Oph ; 2.77; 4250;occ; 93; 0;32843
4; 2179.3; 11-JUN-2008 12:29:22; Bright; 46.0; 59; 55Alp Oph ; 2.08; 8900;occ; 92; 0;32843
5; 2283.8; 11-JUN-2008 12:31:06; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;32843
6; 2471.8; 11-JUN-2008 12:34:14; Bright; 38.5; 133; 40Zet Her ; 2.81; 6000;occ; 77; 0;32843


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8; 3531.6; 11-JUN-2008 12:51:54; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;32843
9; 3908.2; 11-JUN-2008 12:58:11; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;32843
10; 4267.6; 11-JUN-2008 13:04:10; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;32843
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12; 4608.1; 11-JUN-2008 13:09:51; Dark ; 47.0; 50; 13Alp Ari ; 2.01; 4250;occ; 94; 0;32843
13; 5395.2; 11-JUN-2008 13:22:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32843
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16; 6254.0; 11-JUN-2008 13:37:17; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;32843
17; 6375.7; 11-JUN-2008 13:39:18; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;32843
18; 6470.0; 11-JUN-2008 13:40:53; Dark ; 58.5; 172; Gam Gru ; 3.00; 13100;occ; 117; 0;32843
19; 6626.8; 11-JUN-2008 13:43:29; Dark ; 48.0; 45; Alp Pav ; 1.94; 26000;occ; 96; 0;32843
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21; 7337.7; 11-JUN-2008 13:55:20; Dark ; 66.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 133; 0;32843
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4; 2179.0; 11-JUN-2008 14:09:58; Bright; 44.5; 59; 55Alp Oph ; 2.08; 8900;occ; 89; 0;32844
5; 2283.7; 11-JUN-2008 14:11:42; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;32844
6; 2471.5; 11-JUN-2008 14:14:50; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;32844
7; 2892.0; 11-JUN-2008 14:21:51; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;32844
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9; 3908.1; 11-JUN-2008 14:38:47; Bright; 50.5; 76; 27Gam Cas ; 2.30; 30000;occ; 101; 0;32844
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11; 4407.7; 11-JUN-2008 14:47:06; Dark ; 52.0; 53; 43Bet And ; 2.05; 3300;occ; 104; 0;32844
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13; 5396.2; 11-JUN-2008 15:03:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32844
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16; 6255.0; 11-JUN-2008 15:17:54; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;32844
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18; 6471.4; 11-JUN-2008 15:21:30; Dark ; 56.5; 172; Gam Gru ; 3.00; 13100;occ; 113; 0;32844
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5; 346.7; 12-JUN-2008 01:23:37; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;32851
6; 443.6; 12-JUN-2008 01:25:14; Dark ; 56.0; 172; Gam Gru ; 3.00; 13100;occ; 112; 0;32851
7; 595.2; 12-JUN-2008 01:27:45; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;32851
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13; 2176.2; 12-JUN-2008 01:54:06; Bright; 43.5; 59; 55Alp Oph ; 2.08; 8900;occ; 87; 0;32851
14; 2282.5; 12-JUN-2008 01:55:53; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;32851
15; 2469.7; 12-JUN-2008 01:59:00; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;32851
16; 2888.8; 12-JUN-2008 02:05:59; Bright; 41.0; 130; 23Bet Dra ; 2.80; 5800;occ; 82; 0;32851
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9; 347.7; 12-JUN-2008 03:04:14; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;32852
10; 445.1; 12-JUN-2008 03:05:51; Dark ; 57.5; 172; Gam Gru ; 3.00; 13100;occ; 115; 0;32852
11; 596.0; 12-JUN-2008 03:08:22; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;32852
12; 1203.7; 12-JUN-2008 03:18:30; Dark ; 46.0; 25; 35Lam Sco ; 1.62; 28000;occ; 92; 0;32852

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19; 2469.5; 12-JUN-2008 03:39:36; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;32852
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10; 446.2; 12-JUN-2008 04:46:28; Dark ; 57.0; 172; Gam Gru ; 3.00; 13100;occ; 114; 0;32853
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13; 1305.6; 12-JUN-2008 05:00:48; Dark ; 53.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 107; 0;32853
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16; 2020.6; 12-JUN-2008 05:12:43; Bright; 46.5; 126; 60Bet Oph ; 2.77; 4250;occ; 93; 0;32853
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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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13; 1110.0; 14-JUN-2008 07:15:30; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 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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5; 2367.0; 14-JUN-2008 07:36:27; Bright; 36.0; 67; 5Alp CrB ; 2.22; 11000;occ; 72; 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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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
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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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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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17; 5923.3; 14-JUN-2008 10:16:19; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 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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7; 2874.4; 14-JUN-2008 11:06:06; Bright; 41.5; 130; 23Bet Dra ; 2.80; 5800;occ; 83; 0;32885
8; 2963.5; 14-JUN-2008 11:07:35; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;32885
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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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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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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
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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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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
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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
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16;	4270.0;	15-JUN-2008	17:40:09;	Bright;	;	40.5;	73;	57Gam1	And	;	2.26;	13100;	occ;	81;	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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6; 1141.8; 21-JUN-2008 23:41:54; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;32993
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13; 2274.2; 22-JUN-2008 00:00:46; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;32993
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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
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6; 2954.0; 21-JUN-2008 09:06:43; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;32984
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9; 3876.7; 21-JUN-2008 09:22:06; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;32984
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12; 4271.0; 21-JUN-2008 11:09:16; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;32985
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 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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 7; 2448.5; 21-JUN-2008 15:40:41; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;32988
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 17; 4642.2; 21-JUN-2008 17:57:51; Dark ; 51.0; 50; 13Alp Ari ; 2.01; 4250;occ; 102; 0;32989
 18; 4931.1; 21-JUN-2008 18:02:40; Dark ; 46.0; 94; 92Alp Cet ; 2.53; 3100;occ; 92; 0;32989
 19; 5650.3; 21-JUN-2008 18:14:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32989
 20; 6014.4; 21-JUN-2008 18:20:43; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;32989
 21; 6396.6; 21-JUN-2008 18:27:05; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;32989
 22; 6714.2; 21-JUN-2008 18:32:23; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;32989

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 2; 1141.1; 21-JUN-2008 18:40:06; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;32990
 3; 1242.4; 21-JUN-2008 18:41:47; Dark ; 42.0; 25; 35Lam Sco ; 1.62; 28000;occ; 84; 0;32990
 4; 1322.8; 21-JUN-2008 18:43:07; Dark ; 44.0; 116; 19Del Sgr ; 2.70; 4100;occ; 88; 0;32990
 5; 1625.1; 21-JUN-2008 18:48:10; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;32990
 6; 1728.9; 21-JUN-2008 18:49:53; Bright; 36.5; 98; 13Zet Oph ; 2.57; 30000;occ; 73; 0;32990
 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
 11; 2837.9; 21-JUN-2008 19:08:22; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;32990
 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
 14; 3446.4; 21-JUN-2008 19:18:31; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;32990
 15; 3875.2; 21-JUN-2008 19:25:40; Bright; 61.0; 76; 27Gam Cas ; 2.30; 30000;occ; 122; 0;32990
 16; 4065.4; 21-JUN-2008 19:28:50; Bright; 36.0; 160; 23Gam Per ; 2.93; 4700;occ; 72; 0;32990
 17; 4271.1; 21-JUN-2008 19:32:16; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;32990
 18; 4414.3; 21-JUN-2008 19:34:39; Dark ; 42.5; 173; 4Bet Tri ; 3.00; 8900;occ; 85; 0;32990
 19; 4642.5; 21-JUN-2008 19:38:27; Dark ; 52.0; 50; 13Alp Ari ; 2.01; 4250;occ; 104; 0;32990
 20; 4931.3; 21-JUN-2008 19:43:16; Dark ; 44.0; 94; 92Alp Cet ; 2.53; 3100;occ; 88; 0;32990
 21; 5650.7; 21-JUN-2008 19:55:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32990
 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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 2; -20.0; 22-JUN-2008 01:03:08; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;32993
 3; 364.5; 22-JUN-2008 01:09:33; Dark ; 51.0; 63; Bet Gru ; 2.15; 2800;occ; 102; 0;32994

4; 680.4; 22-JUN-2008 01:14:49; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;32994
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
10; 1625.5; 22-JUN-2008 01:30:34; Bright; 38.0; 86; 35Eta Oph ; 2.43; 10200;occ; 76; 0;32994
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
15; 2447.9; 22-JUN-2008 01:44:16; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;32994
16; 2836.6; 22-JUN-2008 01:50:45; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;32994
17; 2953.4; 22-JUN-2008 01:52:41; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;32994
18; 3176.8; 22-JUN-2008 01:56:25; Bright; 31.5; 60; 7Bet UMi ; 2.08; 3950;occ; 63; 0;32994
19; 3446.2; 22-JUN-2008 02:00:54; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;32994
20; 3873.9; 22-JUN-2008 02:08:02; Bright; 32.5; 76; 27Gam Cas ; 2.30; 30000;occ; 65; 0;32994

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2;-1970.7; 22-JUN-2008 02:11:13; Bright; 35.5; 160; 23Gam Per ; 2.93; 4700;occ; 71; 0;32994
3;-1764.9; 22-JUN-2008 02:14:39; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;32994
4;-1621.1; 22-JUN-2008 02:17:03; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;32994
5;-1392.4; 22-JUN-2008 02:20:52; Dark ; 51.0; 50; 13Alp Ari ; 2.01; 4250;occ; 102; 0;32994
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
8; -19.5; 22-JUN-2008 02:43:45; Dark ; 47.0; 9; Alp Eri ; 0.45; 24000;occ; 94; 0;32994
9; 365.6; 22-JUN-2008 02:50:10; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;32995
10; 681.0; 22-JUN-2008 02:55:25; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;32995
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
14; 1324.2; 22-JUN-2008 03:06:08; Dark ; 52.5; 116; 19Del Sgr ; 2.70; 4100;occ; 105; 0;32995
15; 1400.2; 22-JUN-2008 03:07:24; Bright; 44.0; 137; 22Lam Sgr ; 2.82; 4400;occ; 88; 0;32995
16; 1625.7; 22-JUN-2008 03:11:10; Bright; 37.5; 86; 35Eta Oph ; 2.43; 10200;occ; 75; 0;32995
17; 1729.5; 22-JUN-2008 03:12:53; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;32995
18; 1990.7; 22-JUN-2008 03:17:15; Bright; 39.5; 126; 60Bet Oph ; 2.77; 4250;occ; 79; 0;32995
19; 2135.8; 22-JUN-2008 03:19:40; Bright; 39.5; 59; 55Alp Oph ; 2.08; 8900;occ; 79; 0;32995
20; 2274.3; 22-JUN-2008 03:21:58; Bright; 52.0; 127; 27Bet Her ; 2.78; 4700;occ; 104; 0;32995
21; 2447.9; 22-JUN-2008 03:24:52; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;32995
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
25; 3446.2; 22-JUN-2008 03:41:30; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 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
4;-1621.1; 22-JUN-2008 03:57:39; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;32995
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
7; -626.6; 22-JUN-2008 04:14:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32995
8; -19.1; 22-JUN-2008 04:24:21; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;32995
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
18; 2135.6; 22-JUN-2008 05:00:16; Bright; 39.5; 59; 55Alp Oph ; 2.08; 8900;occ; 79; 0;32996
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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 3; -1764.9; 22-JUN-2008 05:35:51; Bright; 60.0; 73; 57Gam1And ; 2.26; 13100;occ; 120; 0;32996
 4; -1621.2; 22-JUN-2008 05:38:15; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;32996
 5; -1102.8; 22-JUN-2008 05:46:53; Dark ; 41.5; 94; 92Alp Cet ; 2.53; 3100;occ; 83; 0;32996
 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
 10; 1143.0; 22-JUN-2008 06:24:19; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;32997
 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
 14; 1626.0; 22-JUN-2008 06:32:22; Bright; 38.0; 86; 35Eta Oph ; 2.43; 10200;occ; 76; 0;32997
 15; 1729.7; 22-JUN-2008 06:34:06; Bright; 35.5; 98; 13Zet Oph ; 2.57; 30000;occ; 71; 0;32997
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 17; 2135.5; 22-JUN-2008 06:40:51; Bright; 41.5; 59; 55Alp Oph ; 2.08; 8900;occ; 83; 0;32997
 18; 2274.4; 22-JUN-2008 06:43:10; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;32997
 19; 2447.8; 22-JUN-2008 06:46:04; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 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
 23; 3446.2; 22-JUN-2008 07:02:42; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 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
 4; 1402.7; 22-JUN-2008 19:53:26; Bright; 44.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 89; 0;33005
 5; 1627.0; 22-JUN-2008 19:57:11; Bright; 37.5; 86; 35Eta Oph ; 2.43; 10200;occ; 75; 0;33005
 6; 1730.7; 22-JUN-2008 19:58:54; Bright; 36.5; 98; 13Zet Oph ; 2.57; 30000;occ; 73; 0;33005
 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
 9; 2274.3; 22-JUN-2008 20:07:58; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;33005
 10; 2447.3; 22-JUN-2008 20:10:51; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;33005
 11; 2833.5; 22-JUN-2008 20:17:17; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;33005
 12; 2952.9; 22-JUN-2008 20:19:16; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;33005
 13; 3177.8; 22-JUN-2008 20:23:01; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;33005
 14; 3446.2; 22-JUN-2008 20:27:30; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33005
 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
 17; 4270.9; 22-JUN-2008 20:41:14; Bright; 45.0; 73; 57Gam1And ; 2.26; 13100;occ; 90; 0;33005
 18; 4415.7; 22-JUN-2008 20:43:39; Dark ; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;33005
 19; 4935.9; 22-JUN-2008 20:52:19; Dark ; 45.5; 94; 92Alp Cet ; 2.53; 3100;occ; 91; 0;33005

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 4; 687.1; 22-JUN-2008 21:22:06; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;33006
 5; 1145.2; 22-JUN-2008 21:29:45; Dark ; 48.5; 40; The Sco ; 1.86; 7100;occ; 97; 0;33006
 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
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 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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 11; 2133.9; 22-JUN-2008 21:46:13; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;33006
 12; 2274.3; 22-JUN-2008 21:48:34; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;33006
 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
 15; 2952.8; 22-JUN-2008 21:59:52; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;33006
 16; 3178.0; 22-JUN-2008 22:03:37; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;33006
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13; 3446.2; 22-JUN-2008 17:06:18; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33003
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14; 3446.3; 22-JUN-2008 18:46:54; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33004
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22; 6411.4; 22-JUN-2008 19:36:19; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;33004
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 18; 2447.1; 23-JUN-2008 04:33:50; Bright; 37.0; 133; 40Zet Her ; 2.81; 6000;occ; 74; 0;33010
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 21; 3178.4; 23-JUN-2008 04:46:01; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;33010
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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
17; 3446.1; 23-JUN-2008 23:17:04; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;33021
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19; 4065.3; 23-JUN-2008 23:27:24; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 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
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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
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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
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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
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12; 4270.8; 23-JUN-2008 08:25:26; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;33012
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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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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
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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
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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
6; 1250.1; 24-JUN-2008 00:21:04; Dark ; 43.5; 25; 35Lam Sco ; 1.62; 28000;occ; 87; 0;33022
7; 1331.6; 24-JUN-2008 00:22:26; Dark ; 53.5; 116; 19Del Sgr ; 2.70; 4100;occ; 107; 0;33022
8; 1629.2; 24-JUN-2008 00:27:23; Bright; 37.5; 86; 35Eta Oph ; 2.43; 10200;occ; 75; 0;33022


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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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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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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
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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
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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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
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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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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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4; 1628.7; 23-JUN-2008 17:44:59; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 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
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11; 2952.4; 23-JUN-2008 18:07:03; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33018
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18; 4940.3; 23-JUN-2008 18:40:11; Dark ; 46.0; 94; 92Alp Cet ; 2.53; 3100;occ; 92; 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
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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
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9; 2446.8; 23-JUN-2008 19:39:13; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;33019
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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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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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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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 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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 8; 3446.0; 25-JUN-2008 10:29:39; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33042
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21;	7006.1;	28-JUN-2008	13:15:19;	Dark	;	38.0;	141;	Bet	Ara	;	2.84;	4600;	occ;	76;	0;	33086
22;	7092.9;	28-JUN-2008	13:16:46;	Dark	;	35.5;	147;	Alp	Ara	;	2.88;	26000;	occ;	71;	0;	33086
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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1;	1638.6;	28-JUN-2008	13:26:28;	Bright;	36.5;	86;	35Eta	Oph	;	2.43;	10200;	occ;	73;	0;	33087	
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
20;	6766.7;	28-JUN-2008	14:51:56;	Dark	;	41.0;	45;	Alp	Pav	;	1.94;	26000;	occ;	82;	0;	33087
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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1;	1638.6;	28-JUN-2008	15:07:04;	Bright;	35.5;	86;	35Eta	Oph	;	2.43;	10200;	occ;	71;	0;	33088	
2;	1743.5;	28-JUN-2008	15:08:49;	Bright;	35.5;	98;	13Zet	Oph	;	2.57;	30000;	occ;	71;	0;	33088	
3;	1983.1;	28-JUN-2008	15:12:48;	Bright;	37.5;	126;	60Bet	Oph	;	2.77;	4250;	occ;	75;	0;	33088	
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	
14;	4965.8;	28-JUN-2008	16:02:31;	Dark	;	47.5;	94;	92Alp	Cet	;	2.53;	3100;	occ;	95;	0;	33088
15;	5193.8;	28-JUN-2008	16:06:19;	Dark	;	38.0;	165;	34Gam	Eri	;	2.95;	3200;	occ;	76;	0;	33088

16; 5699.4; 28-JUN-2008 16:14:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33088
 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
 20; 6767.3; 28-JUN-2008 16:32:33; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;33088
 21; 7006.6; 28-JUN-2008 16:36:32; Dark ; 38.0; 141; Bet Ara ; 2.84; 4600;occ; 76; 0;33088
 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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1; 1265.2; 28-JUN-2008 16:41:26; Dark ; 43.0; 25; 35Lam Sco ; 1.62; 28000;occ; 86; 0;33089
 2; 1349.0; 28-JUN-2008 16:42:50; Dark ; 49.0; 116; 19Del Sgr ; 2.70; 4100;occ; 98; 0;33089
 3; 1638.7; 28-JUN-2008 16:47:40; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;33089
 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
 9; 2814.2; 28-JUN-2008 17:07:15; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;33089
 10; 2951.7; 28-JUN-2008 17:09:33; Bright; 34.0; 119; 14Eta Dra ; 2.73; 4700;occ; 68; 0;33089
 11; 3187.8; 28-JUN-2008 17:13:29; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;33089
 12; 3445.8; 28-JUN-2008 17:17:47; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33089
 13; 4064.2; 28-JUN-2008 17:28:05; Bright; 55.0; 160; 23Gam Per ; 2.93; 4700;occ; 110; 0;33089
 14; 4164.5; 28-JUN-2008 17:29:46; Bright; 33.5; 175; 39Del Per ; 3.01; 19400;occ; 67; 0;33089
 15; 4293.4; 28-JUN-2008 17:31:55; Bright; 42.0; 79; 26Bet Per ; 2.31; 13100;occ; 84; 0;33089
 16; 4966.1; 28-JUN-2008 17:43:07; Dark ; 47.5; 94; 92Alp Cet ; 2.53; 3100;occ; 95; 0;33089
 17; 5193.9; 28-JUN-2008 17:46:55; Dark ; 42.0; 165; 34Gam Eri ; 2.95; 3200;occ; 84; 0;33089
 18; 5700.0; 28-JUN-2008 17:55:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33089
 19; 6058.8; 28-JUN-2008 18:01:20; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;33089
 20; 6345.8; 28-JUN-2008 18:06:07; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;33089
 21; 6502.8; 28-JUN-2008 18:08:44; Dark ; 43.5; 148; Alp Tuc ; 2.88; 4100;occ; 87; 0;33089
 22; 6767.7; 28-JUN-2008 18:13:09; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;33089
 23; 7006.7; 28-JUN-2008 18:17:08; Dark ; 37.0; 141; Bet Ara ; 2.84; 4600;occ; 74; 0;33089
 24; 7093.6; 28-JUN-2008 18:18:35; Dark ; 36.0; 147; Alp Ara ; 2.88; 26000;occ; 72; 0;33089

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 2; 1165.3; 28-JUN-2008 18:20:23; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;33090
 3; 1265.2; 28-JUN-2008 18:22:02; Dark ; 40.0; 25; 35Lam Sco ; 1.62; 28000;occ; 80; 0;33090
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 5; 1638.9; 28-JUN-2008 18:28:16; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;33090
 6; 1743.7; 28-JUN-2008 18:30:01; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;33090
 7; 1983.1; 28-JUN-2008 18:34:00; Bright; 37.5; 126; 60Bet Oph ; 2.77; 4250;occ; 75; 0;33090
 8; 2123.8; 28-JUN-2008 18:36:21; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;33090
 9; 2280.4; 28-JUN-2008 18:38:58; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;33090
 10; 2446.7; 28-JUN-2008 18:41:44; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;33090
 11; 2813.9; 28-JUN-2008 18:47:51; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;33090
 12; 2951.6; 28-JUN-2008 18:50:09; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;33090
 13; 3187.9; 28-JUN-2008 18:54:05; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;33090
 14; 3445.8; 28-JUN-2008 18:58:23; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;33090
 15; 4064.0; 28-JUN-2008 19:08:41; Bright; 55.0; 160; 23Gam Per ; 2.93; 4700;occ; 110; 0;33090
 16; 4164.4; 28-JUN-2008 19:10:22; Bright; 33.0; 175; 39Del Per ; 3.01; 19400;occ; 66; 0;33090
 17; 4293.3; 28-JUN-2008 19:12:30; Bright; 41.0; 79; 26Bet Per ; 2.31; 13100;occ; 82; 0;33090
 18; 4966.3; 28-JUN-2008 19:23:44; Dark ; 47.0; 94; 92Alp Cet ; 2.53; 3100;occ; 94; 0;33090
 19; 5194.1; 28-JUN-2008 19:27:31; Dark ; 42.5; 165; 34Gam Eri ; 2.95; 3200;occ; 85; 0;33090
 20; 5700.5; 28-JUN-2008 19:35:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33090
 21; 6059.1; 28-JUN-2008 19:41:56; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;33090
 22; 6345.9; 28-JUN-2008 19:46:43; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;33090
 23; 6503.4; 28-JUN-2008 19:49:21; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;33090
 24; 6768.2; 28-JUN-2008 19:53:45; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;33090
 25; 7006.8; 28-JUN-2008 19:57:44; Dark ; 41.0; 141; Bet Ara ; 2.84; 4600;occ; 82; 0;33090

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1; -333.8; 29-JUN-2008 00:37:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33093
 2; 24.6; 29-JUN-2008 00:43:45; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;33094
 3; 310.5; 29-JUN-2008 00:48:31; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;33094
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 5; 733.6; 29-JUN-2008 00:55:34; Dark ; 39.0; 45; Alp Pav ; 1.94; 26000;occ; 78; 0;33094
 6; 971.2; 29-JUN-2008 00:59:32; Dark ; 40.0; 141; Bet Ara ; 2.84; 4600;occ; 80; 0;33094
 7; 1058.3; 29-JUN-2008 01:00:59; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;33094
 8; 1266.0; 29-JUN-2008 01:04:27; Dark ; 43.0; 25; 35Lam Sco ; 1.62; 28000;occ; 86; 0;33094


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10; 1639.4; 29-JUN-2008 01:10:40; Bright; 35.5; 86; 35Eta Oph ; 2.43; 10200;occ; 71; 0;33094
11; 1744.2; 29-JUN-2008 01:12:25; Bright; 34.0; 98; 13Zet Oph ; 2.57; 30000;occ; 68; 0;33094
12; 1982.7; 29-JUN-2008 01:16:24; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;33094
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14; 2280.8; 29-JUN-2008 01:21:22; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;33094
15; 2446.7; 29-JUN-2008 01:24:08; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;33094
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17; 2951.8; 29-JUN-2008 01:32:33; Bright; 33.5; 119; 14Eta Dra ; 2.73; 4700;occ; 67; 0;33094
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19; 3445.7; 29-JUN-2008 01:40:46; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;33094
20; 4064.0; 29-JUN-2008 01:51:05; Bright; 36.5; 160; 23Gam Per ; 2.93; 4700;occ; 73; 0;33094
21; 4164.5; 29-JUN-2008 01:52:45; Bright; 34.0; 175; 39Del Per ; 3.01; 19400;occ; 68; 0;33094
22; 4293.4; 29-JUN-2008 01:54:54; Bright; 37.5; 79; 26Bet Per ; 2.31; 13100;occ; 75; 0;33094
23; 4967.9; 29-JUN-2008 02:06:09; Dark ; 47.5; 94; 92Alp Cet ; 2.53; 3100;occ; 95; 0;33094
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3; 25.1; 29-JUN-2008 02:24:22; Dark ; 39.0; 9; Alp Eri ; 0.45; 24000;occ; 78; 0;33095
4; 310.8; 29-JUN-2008 02:29:07; Dark ; 37.0; 135; Bet Hyi ; 2.82; 5800;occ; 74; 0;33095
5; 469.8; 29-JUN-2008 02:31:46; Dark ; 42.0; 148; Alp Tuc ; 2.88; 4100;occ; 84; 0;33095
6; 734.1; 29-JUN-2008 02:36:11; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;33095
7; 971.5; 29-JUN-2008 02:40:08; Dark ; 39.5; 141; Bet Ara ; 2.84; 4600;occ; 79; 0;33095
8; 1058.6; 29-JUN-2008 02:41:35; Dark ; 39.0; 147; Alp Ara ; 2.88; 26000;occ; 78; 0;33095
9; 1166.2; 29-JUN-2008 02:43:23; Dark ; 39.5; 40; The Sco ; 1.86; 7100;occ; 79; 0;33095
10; 1266.3; 29-JUN-2008 02:45:03; Dark ; 40.0; 25; 35Lam Sco ; 1.62; 28000;occ; 80; 0;33095
11; 1350.2; 29-JUN-2008 02:46:27; Dark ; 49.0; 116; 19Del Sgr ; 2.70; 4100;occ; 98; 0;33095
12; 1639.6; 29-JUN-2008 02:51:16; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;33095
13; 1744.5; 29-JUN-2008 02:53:01; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;33095
14; 1982.7; 29-JUN-2008 02:56:59; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;33095
15; 2123.4; 29-JUN-2008 02:59:20; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 0;33095
16; 2281.1; 29-JUN-2008 03:01:58; Bright; 37.0; 127; 27Bet Her ; 2.78; 4700;occ; 74; 0;33095
17; 2446.9; 29-JUN-2008 03:04:44; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;33095
18; 2813.0; 29-JUN-2008 03:10:50; Bright; 34.5; 130; 23Bet Dra ; 2.80; 5800;occ; 69; 0;33095
19; 2951.8; 29-JUN-2008 03:13:08; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;33095
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