

GOMOS Daily Report 29-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	01JUL2008 05:32:06
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (29JUN2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (30JUN2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

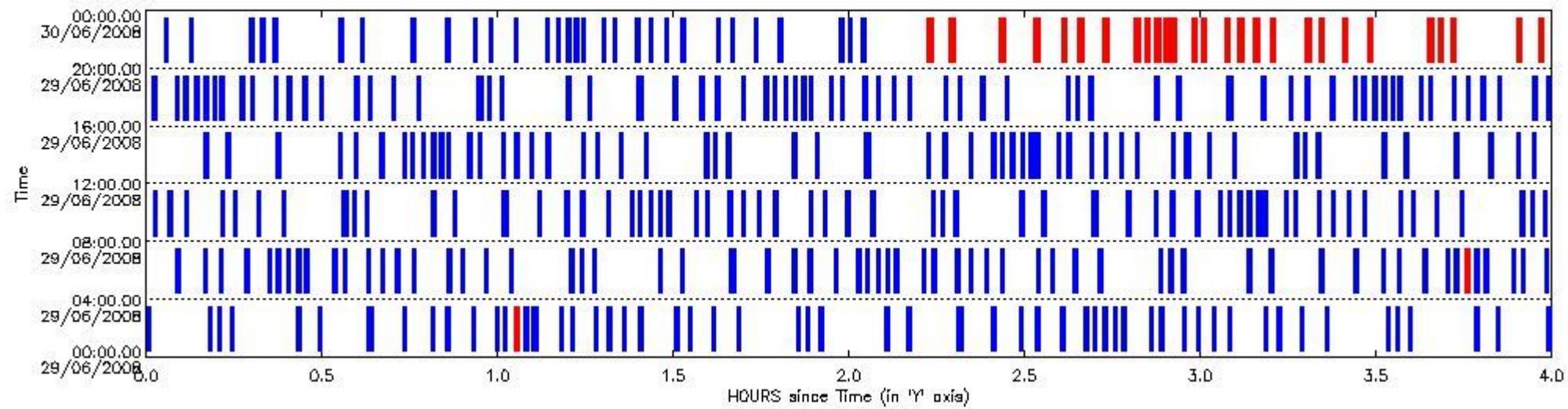
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
29-JUN-2008 01:02:44	TheSco	40	33094
29-JUN-2008 07:45:09	TheSco	40	33098
29-JUN-2008 22:13:22	92AlpCet	94	33106
29-JUN-2008 22:17:08	34GamEri	165	33106
29-JUN-2008 22:25:39	DSA1065	0	33106
29-JUN-2008 22:31:36	AlpEri	9	33107
29-JUN-2008 22:36:19	BetHyi	135	33107
29-JUN-2008 22:39:02	AlpTuc	148	33107
29-JUN-2008 22:43:25	AlpPav	45	33107
29-JUN-2008 22:48:46	AlpAra	147	33107
29-JUN-2008 22:50:34	TheSco	40	33107
29-JUN-2008 22:52:14	35LamSco	25	33107
29-JUN-2008 22:53:38	19DelSgr	116	33107
29-JUN-2008 22:54:51	22LamSgr	137	33107
29-JUN-2008 22:58:27	35EtaOph	86	33107

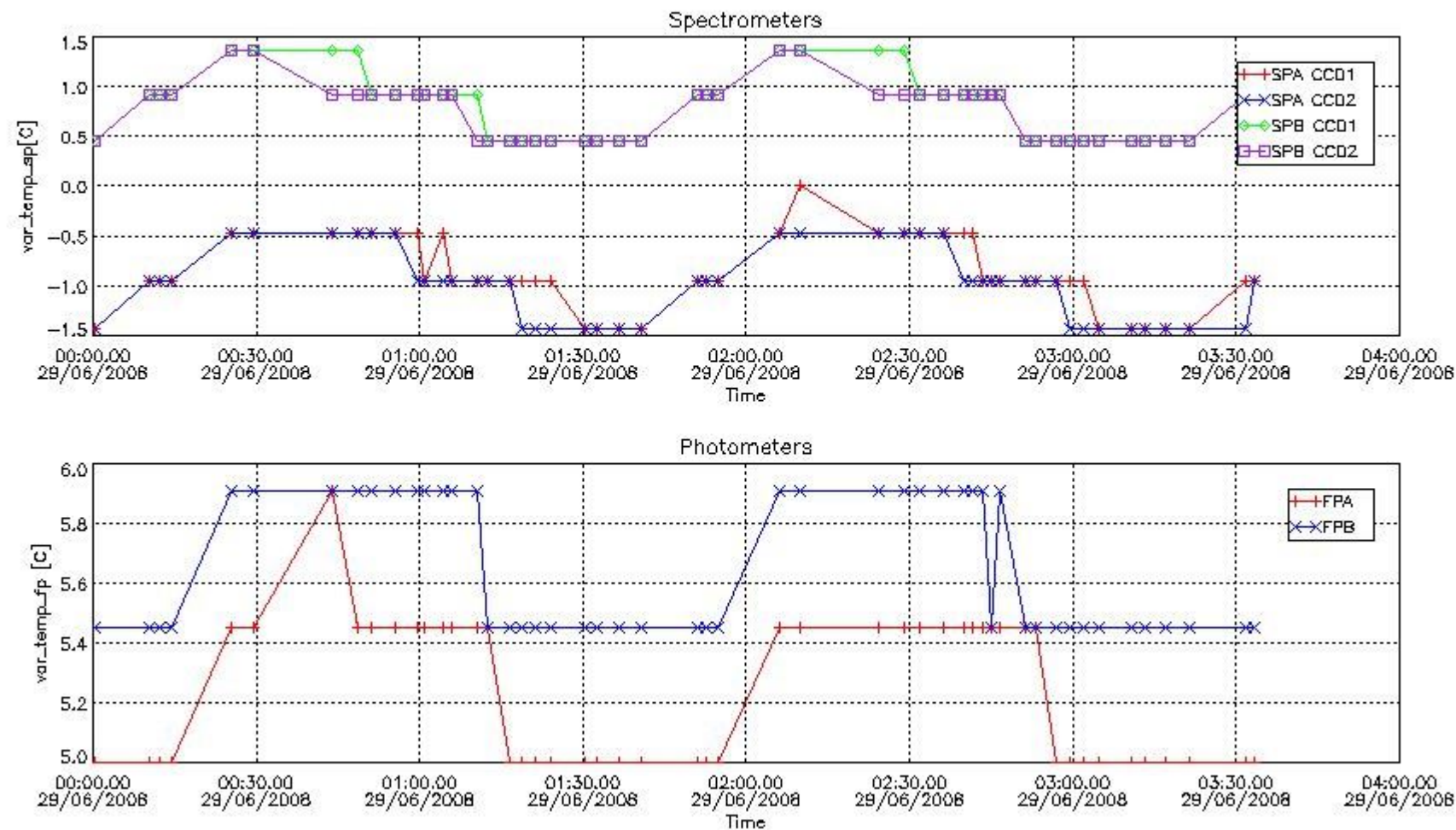
29-JUN-2008 23:00:12	13ZetOph	98	33107
29-JUN-2008 23:04:08	60BetOph	126	33107
29-JUN-2008 23:06:28	55AlpOph	59	33107
29-JUN-2008 23:09:08	27BetHer	127	33107
29-JUN-2008 23:11:53	40ZetHer	133	33107
29-JUN-2008 23:17:56	23BetDra	130	33107
29-JUN-2008 23:20:17	14EtaDra	119	33107
29-JUN-2008 23:24:15	7BetUMi	60	33107
29-JUN-2008 23:28:31	1AlpUMi	49	33107
29-JUN-2008 23:38:49	23GamPer	160	33107
29-JUN-2008 23:40:31	39DelPer	175	33107
29-JUN-2008 23:42:39	26BetPer	79	33107
29-JUN-2008 23:53:59	92AlpCet	94	33107
29-JUN-2008 23:57:44	34GamEri	165	33107

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_1PNPDE20080629_000011_000000342069_00474_33093_4374.N1	29-JUN-2008 00:00:11	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	33093	No
2	GOM_TRA_1PNPDE20080629_001029_000000362069_00474_33093_4375.N1	29-JUN-2008 00:10:29	Bright	35.500	160	23Gam Per	2.9300	4700.0	71	33093	No
3	GOM_TRA_1PNPDE20080629_001210_000000402069_00474_33093_4376.N1	29-JUN-2008 00:12:10	Bright	39.500	175	39Del Per	3.0100	19400.	79	33093	No
4	GOM_TRA_1PNPDE20080629_001418_000000392069_00474_33093_4377.N1	29-JUN-2008 00:14:18	Bright	39.000	79	26Bet Per	2.3100	13100.	78	33093	No
5	GOM_TRA_1PNPDE20080629_002532_000000462069_00474_33093_4378.N1	29-JUN-2008 00:25:32	Dark	45.500	94	92Alp Cet	2.5260	3100.0	91	33093	No
6	GOM_TRA_1PNPDE20080629_002920_000000392069_00474_33093_4379.N1	29-JUN-2008 00:29:20	Dark	39.000	165	34Gam Eri	2.9500	3200.0	78	33093	No
7	GOM_TRA_1PNPDE20080629_004345_000000432069_00475_33094_4526.N1	29-JUN-2008 00:43:45	Dark	43.000	9	Alp Eri	0.45300	24000.	86	33094	No
8	GOM_TRA_1PNPDE20080629_004831_000000372069_00475_33094_4527.N1	29-JUN-2008 00:48:31	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	33094	No
9	GOM_TRA_1PNPDE20080629_005110_000000422069_00475_33094_4528.N1	29-JUN-2008 00:51:10	Straylight	41.500	148	Alp Tuc	2.8780	4100.0	83	33094	No
10	GOM_TRA_1PNPDE20080629_005534_000000392069_00475_33094_4529.N1	29-JUN-2008 00:55:34	Straylight	39.000	45	Alp Pav	1.9400	26000.	78	33094	No
11	GOM_TRA_1PNPDE20080629_005932_000000402069_00475_33094_4530.N1	29-JUN-2008 00:59:32	Straylight	40.000	141	Bet Ara	2.8400	4600.0	80	33094	No
12	GOM_TRA_1PNPDE20080629_010059_000000392069_00475_33094_4531.N1	29-JUN-2008 01:00:59	Straylight	38.500	147	Alp Ara	2.8770	26000.	77	33094	No
13	GOM_TRA_1PNPDE20080629_010427_000000432069_00475_33094_4532.N1	29-JUN-2008 01:04:27	Twilight	43.000	25	35Lam Sco	1.6200	28000.	86	33094	No
14	GOM_TRA_1PNPDE20080629_010551_000000562069_00475_33094_4533.N1	29-JUN-2008 01:05:51	Bright	56.000	116	19Del Sgr	2.7000	4100.0	112	33094	No
15	GOM_TRA_1PNPDE20080629_011040_000000362069_00475_33094_4534.N1	29-JUN-2008 01:10:40	Bright	35.500	86	35Eta Oph	2.4300	10200.	71	33094	No
16	GOM_TRA_1PNPDE20080629_011225_000000342069_00475_33094_4535.N1	29-JUN-2008 01:12:25	Bright	34.000	98	13Zet Oph	2.5710	30000.	68	33094	No
17	GOM_TRA_1PNPDE20080629_011624_000000372069_00475_33094_4536.N1	29-JUN-2008 01:16:24	Bright	37.000	126	60Bet Oph	2.7700	4250.0	74	33094	No
18	GOM_TRA_1PNPDE20080629_011844_000000362069_00475_33094_4537.N1	29-JUN-2008 01:18:44	Bright	36.000	59	55Alp Oph	2.0800	8900.0	72	33094	No
19	GOM_TRA_1PNPDE20080629_012122_000000362069_00475_33094_4538.N1	29-JUN-2008 01:21:22	Bright	36.000	127	27Bet Her	2.7810	4700.0	72	33094	No
20	GOM_TRA_1PNPDE20080629_012408_000000362069_00475_33094_4539.N1	29-JUN-2008 01:24:08	Bright	35.500	133	40Zet Her	2.8070	6000.0	71	33094	No
21	GOM_TRA_1PNPDE20080629_013014_000000392069_00475_33094_4540.N1	29-JUN-2008 01:30:14	Bright	38.500	130	23Bet Dra	2.7990	5800.0	77	33094	No
22	GOM_TRA_1PNPDE20080629_013233_000000342069_00475_33094_4541.N1	29-JUN-2008 01:32:33	Bright	33.500	119	14Eta Dra	2.7270	4700.0	67	33094	No
23	GOM_TRA_1PNPDE20080629_013629_000000382069_00475_33094_4542.N1	29-JUN-2008 01:36:29	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	33094	No
24	GOM_TRA_1PNPDE20080629_014046_000000342069_00475_33094_4543.N1	29-JUN-2008 01:40:46	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	33094	No
25	GOM_TRA_1PNPDE20080629_015105_000000372069_00475_33094_4544.N1	29-JUN-2008 01:51:05	Bright	36.500	160	23Gam Per	2.9300	4700.0	73	33094	No
26	GOM_TRA_1PNPDE20080629_015245_000000342069_00475_33094_4545.N1	29-JUN-2008 01:52:45	Bright	34.000	175	39Del Per	3.0100	19400.	68	33094	No
27	GOM_TRA_1PNPDE20080629_015454_000000382069_00475_33094_4546.N1	29-JUN-2008 01:54:54	Bright	37.500	79	26Bet Per	2.3100	13100.	75	33094	No
28	GOM_TRA_1PNPDE20080629_020609_000000482069_00475_33094_4547.N1	29-JUN-2008 02:06:09	Dark	47.500	94	92Alp Cet	2.5260	3100.0	95	33094	No
29	GOM_TRA_1PNPDE20080629_020956_000000372069_00475_33094_4679.N1	29-JUN-2008 02:09:56	Dark	36.500	165	34Gam Eri	2.9500	3200.0	73	33094	No
30	GOM_TRA_1PNPDE20080629_022422_000000392069_00476_33095_4680.N1	29-JUN-2008 02:24:22	Dark	39.000	9	Alp Eri	0.45300	24000.	78	33095	No
31	GOM_TRA_1PNPDE20080629_022907_000000372069_00476_33095_4681.N1	29-JUN-2008 02:29:07	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	33095	No
32	GOM_TRA_1PNPDE20080629_023146_000000422069_00476_33095_4682.N1	29-JUN-2008 02:31:46	Straylight	42.000	148	Alp Tuc	2.8780	4100.0	84	33095	No
33	GOM_TRA_1PNPDE20080629_023611_000000402069_00476_33095_4683.N1	29-JUN-2008 02:36:11	Straylight	40.000	45	Alp Pav	1.9400	26000.	80	33095	No
34	GOM_TRA_1PNPDE20080629_024008_000000402069_00476_33095_4684.N1	29-JUN-2008 02:40:08	Straylight	39.500	141	Bet Ara	2.8400	4600.0	79	33095	No
35	GOM_TRA_1PNPDE20080629_024135_000000392069_00476_33095_4685.N1	29-JUN-2008 02:41:35	Straylight	39.000	147	Alp Ara	2.8770	26000.	78	33095	No
36	GOM_TRA_1PNPDE20080629_024323_000000402069_00476_33095_4686.N1	29-JUN-2008 02:43:23	Twilight	39.500	40	The Sco	1.8590	7100.0	79	33095	No
37	GOM_TRA_1PNPDE20080629_024503_000000402069_00476_33095_4687.N1	29-JUN-2008 02:45:03	Twilight	40.000	25	35Lam Sco	1.6200	28000.	80	33095	No
38	GOM_TRA_1PNPDE20080629_024627_000000492069_00476_33095_4688.N1	29-JUN-2008 02:46:27	Bright	49.000	116	19Del Sgr	2.7000	4100.0	98	33095	No
39	GOM_TRA_1PNPDE20080629_025116_000000372069_00476_33095_4689.N1	29-JUN-2008 02:51:16	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	33095	No
40	GOM_TRA_1PNPDE20080629_025301_000000362069_00476_33095_4690.N1	29-JUN-2008 02:53:01	Bright	36.000	98	13Zet Oph	2.5710	30000.	72	33095	No

41	GOM_TRA_1PNPDE20080629_025659_000000372069_00476_33095_4691.N1	29-JUN-2008 02:56:59	Bright	37.000	126	60Bet Oph	2.7700	4250.0	74	33095	No
42	GOM_TRA_1PNPDE20080629_025920_000000372069_00476_33095_4692.N1	29-JUN-2008 02:59:20	Bright	37.000	59	55Alp Oph	2.0800	8900.0	74	33095	No
43	GOM_TRA_1PNPDE20080629_030158_000000372069_00476_33095_4693.N1	29-JUN-2008 03:01:58	Bright	37.000	127	27Bet Her	2.7810	4700.0	74	33095	No
44	GOM_TRA_1PNPDE20080629_030444_000000362069_00476_33095_4694.N1	29-JUN-2008 03:04:44	Bright	36.000	133	40Zet Her	2.8070	6000.0	72	33095	No
45	GOM_TRA_1PNPDE20080629_031050_000000352069_00476_33095_4695.N1	29-JUN-2008 03:10:50	Bright	34.500	130	23Bet Dra	2.7990	5800.0	69	33095	No
46	GOM_TRA_1PNPDE20080629_031308_000000362069_00476_33095_4696.N1	29-JUN-2008 03:13:08	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	33095	No
47	GOM_TRA_1PNPDE20080629_031705_000000342069_00476_33095_4697.N1	29-JUN-2008 03:17:05	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	33095	No
48	GOM_TRA_1PNPDE20080629_032122_000000332069_00476_33095_4698.N1	29-JUN-2008 03:21:22	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	33095	No
49	GOM_TRA_1PNPDE20080629_033141_000000372069_00476_33095_4821.N1	29-JUN-2008 03:31:41	Bright	37.000	160	23Gam Per	2.9300	4700.0	74	33095	No
50	GOM_TRA_1PNPDE20080629_033321_000000342069_00476_33095_4822.N1	29-JUN-2008 03:33:21	Bright	34.000	175	39Del Per	3.0100	19400.	68	33095	No

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



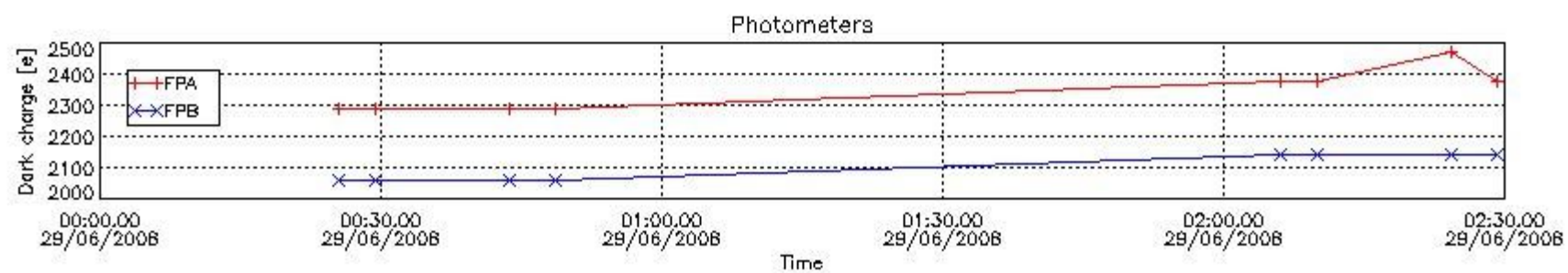
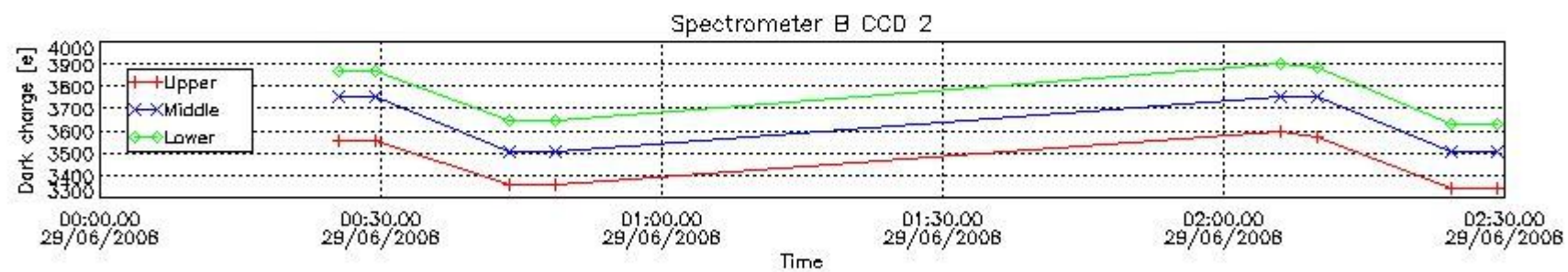
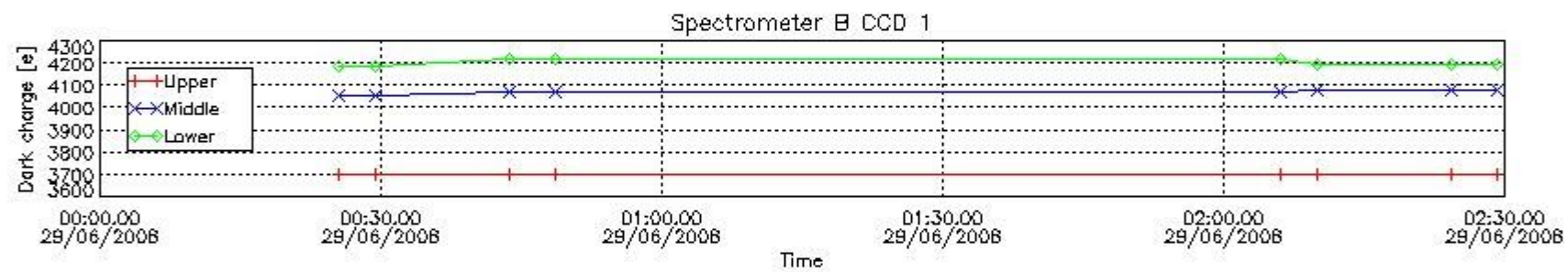
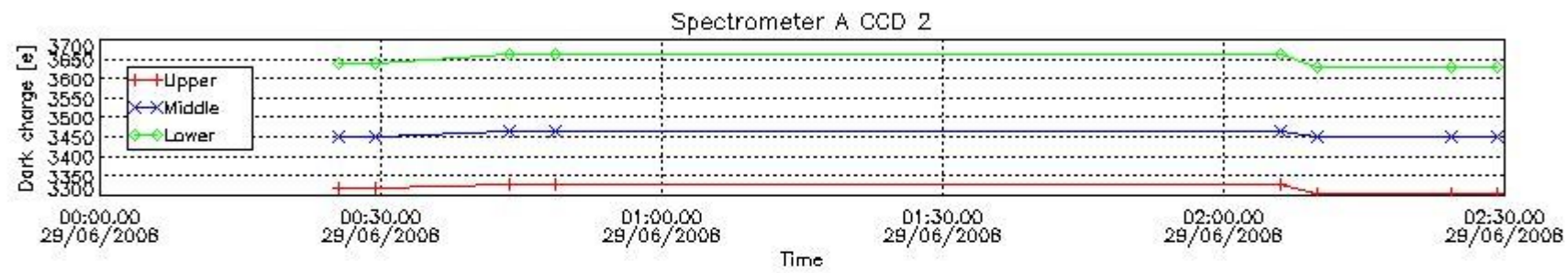
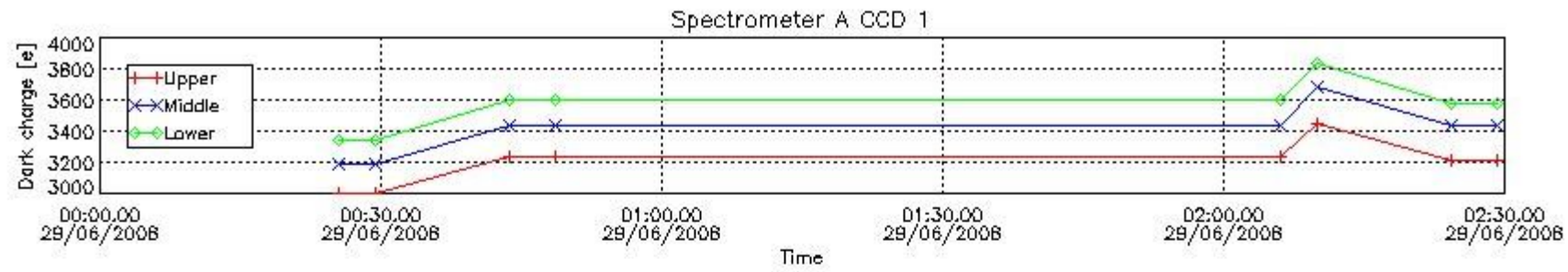
4. Overview of dark signal processing per product

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



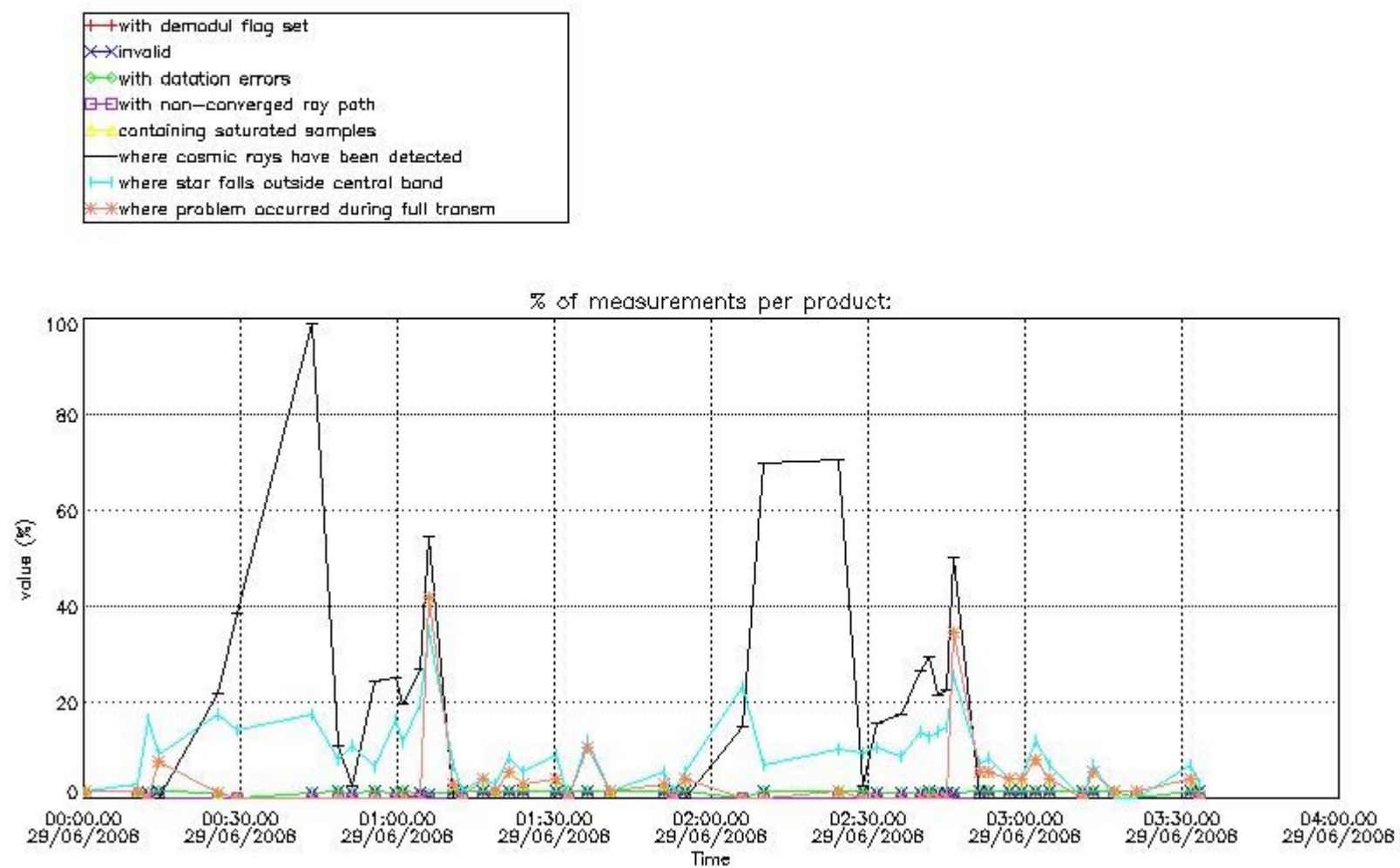
5. Demodulation flag and quality information monitoring

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.

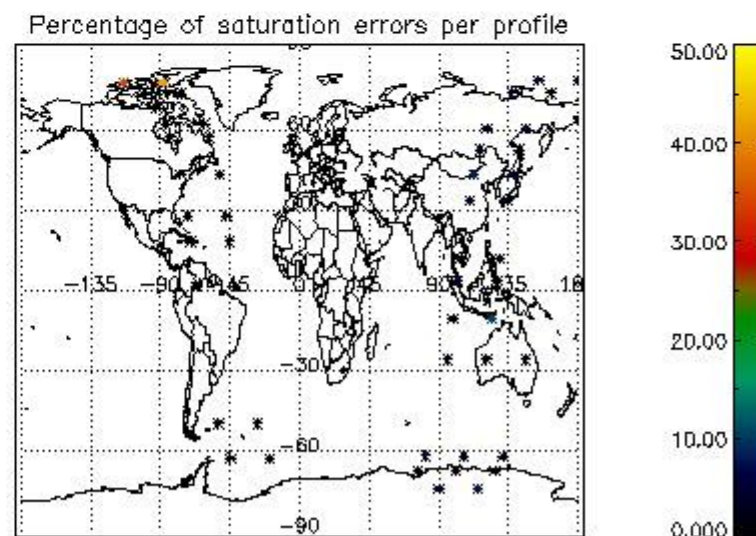
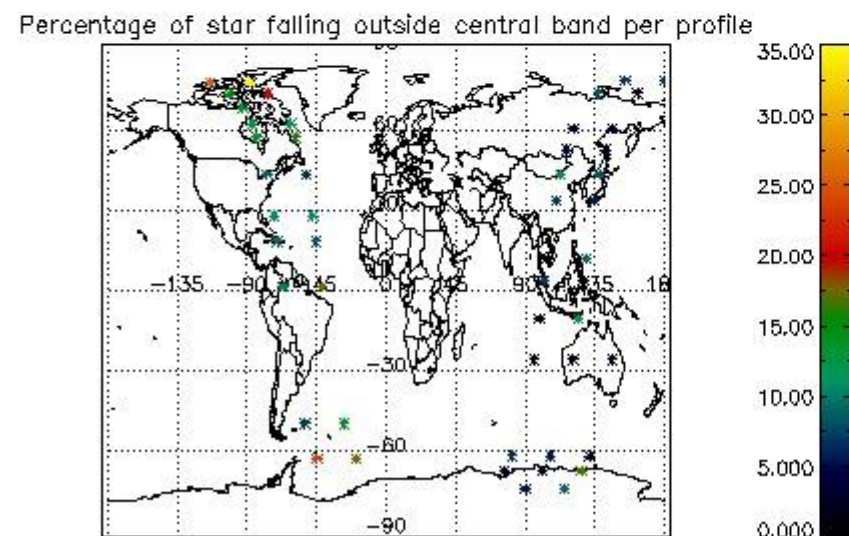
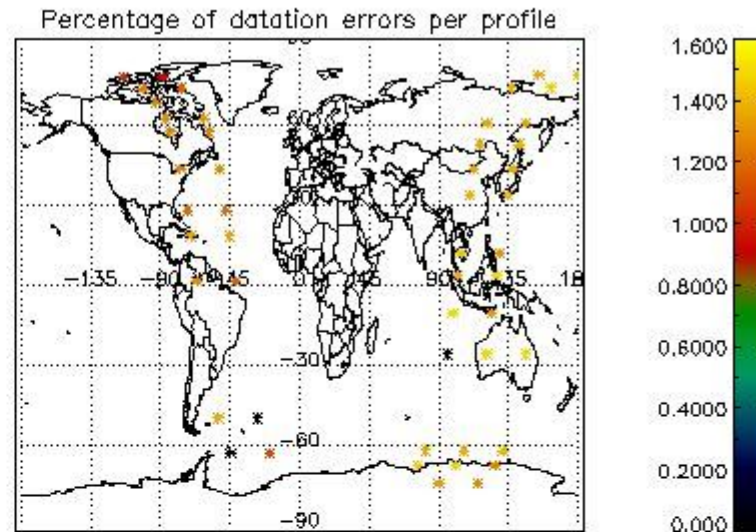
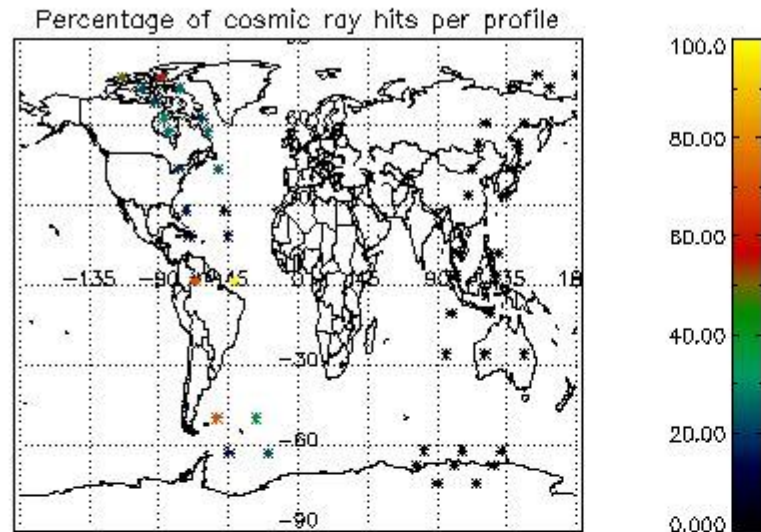
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



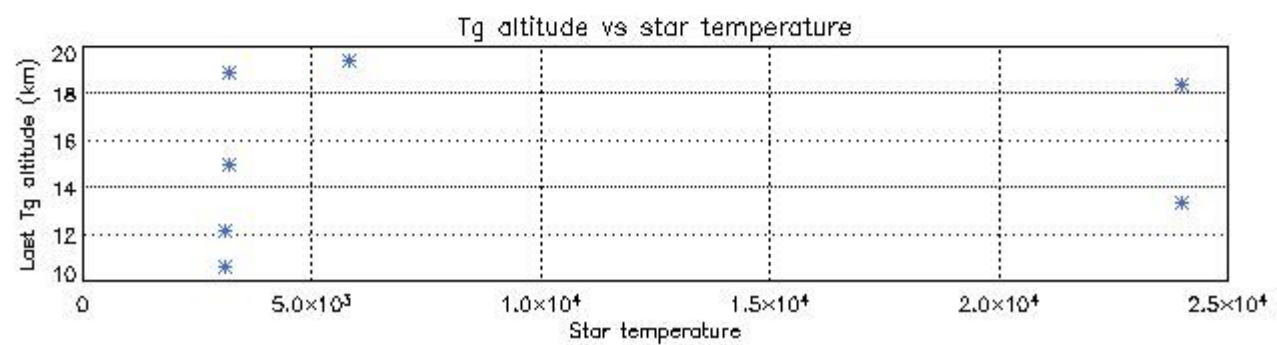
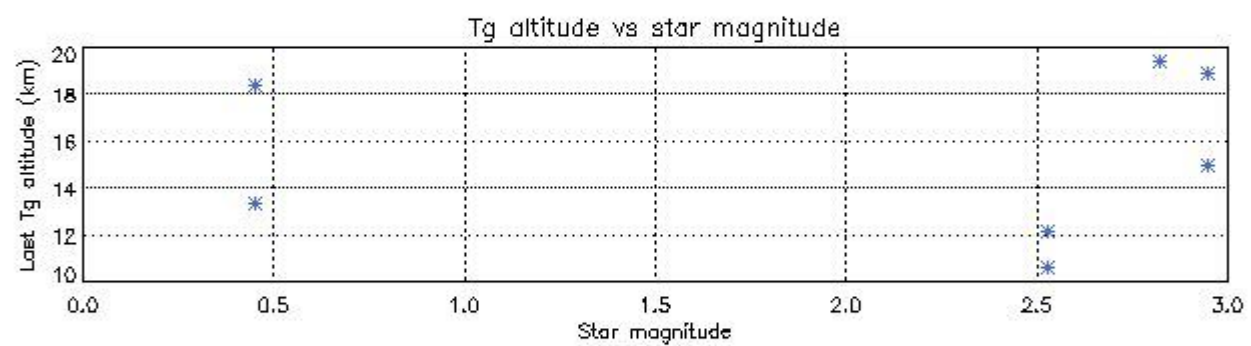
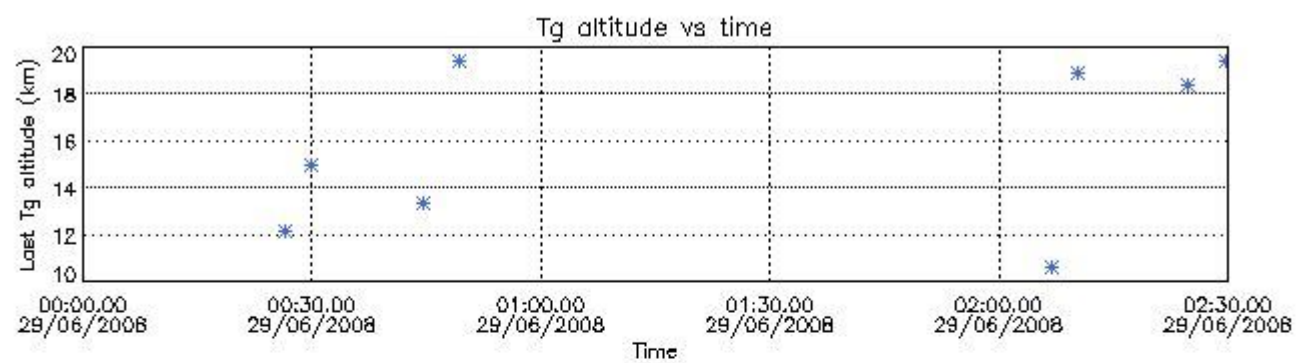
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.884	21.437	NaN
St. deviation:	3.5627	5.0350	NaN
Maximum:	19.384	28.555	NaN
Minimum:	10.621	4.1719	NaN
Number of data:	8.0000	31.000	NaN

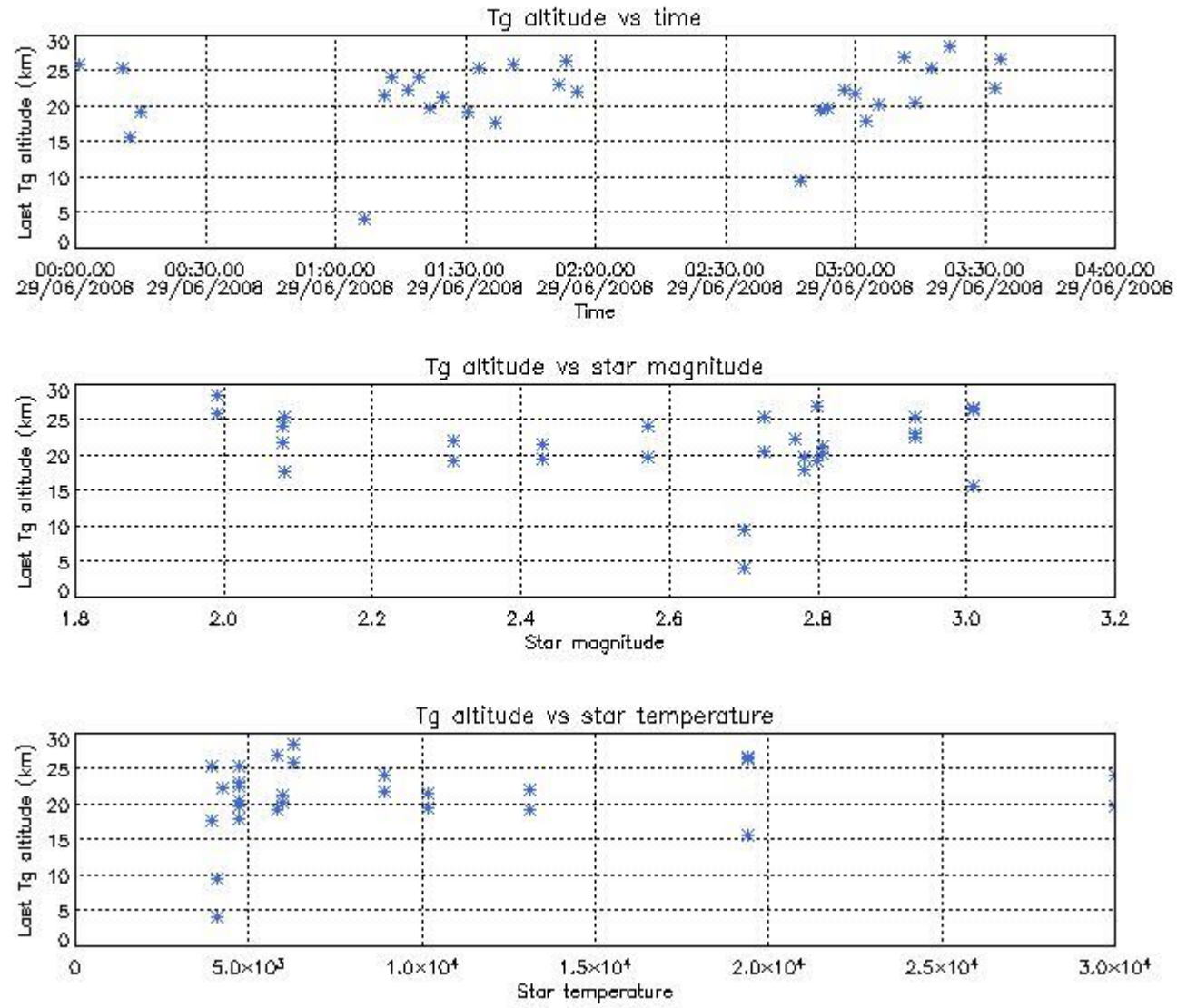
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

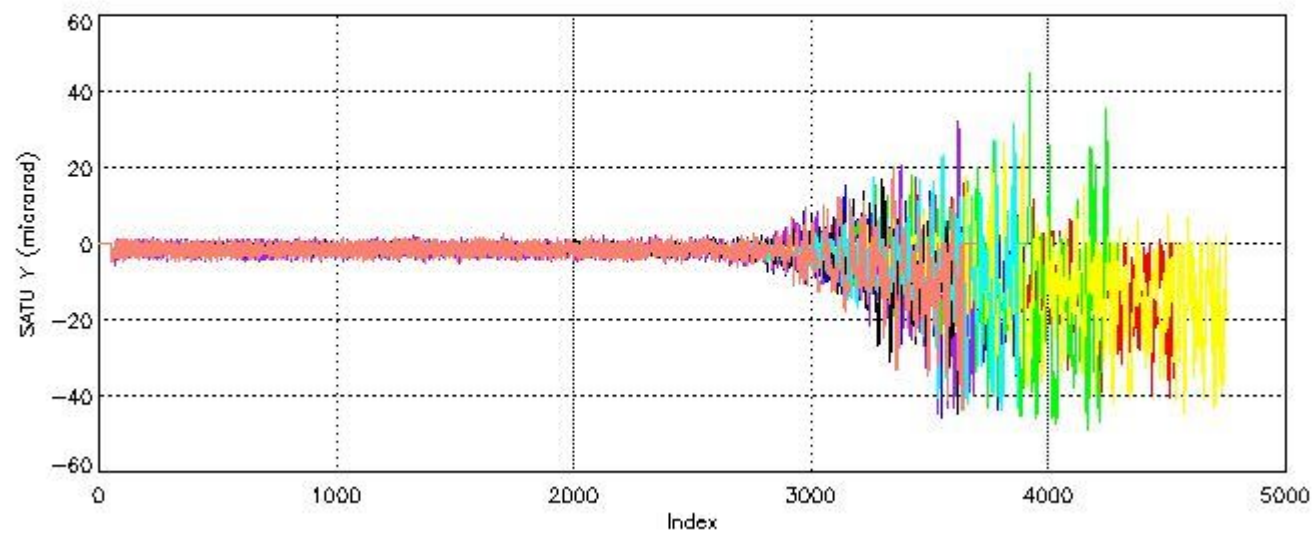
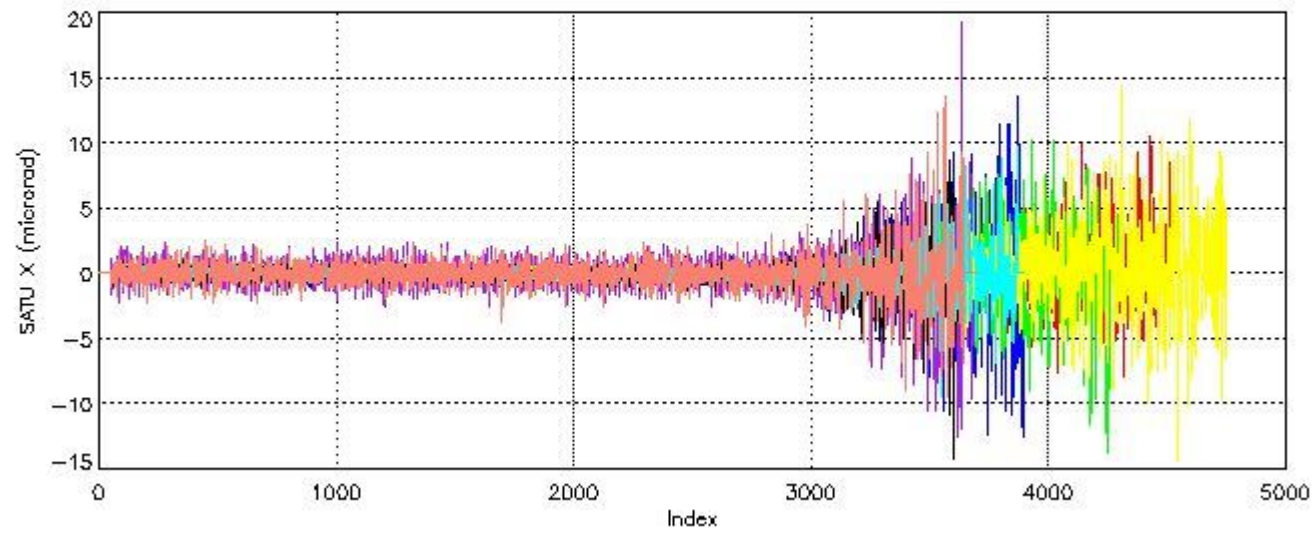


7. Star Acquisition and Tracking Unit (SATU)

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:	0.050187	-1.3945	0.079190	-1.3349
St. deviation:	0.38847	0.82515	0.84814	1.3218
Maximum:	2.5000	1.6000	6.6000	7.3000
Minimum:	-2.3000	-5.7000	-6.4000	-9.1000

Number of data:	7050.0	7050.0	25850.	25850.
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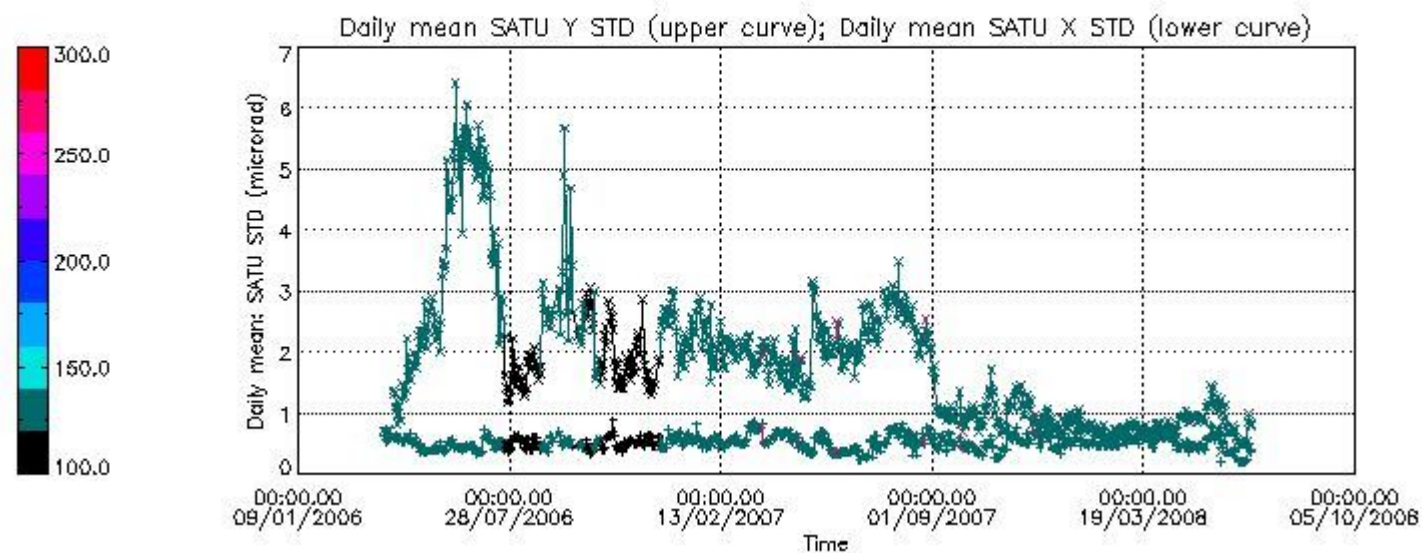
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

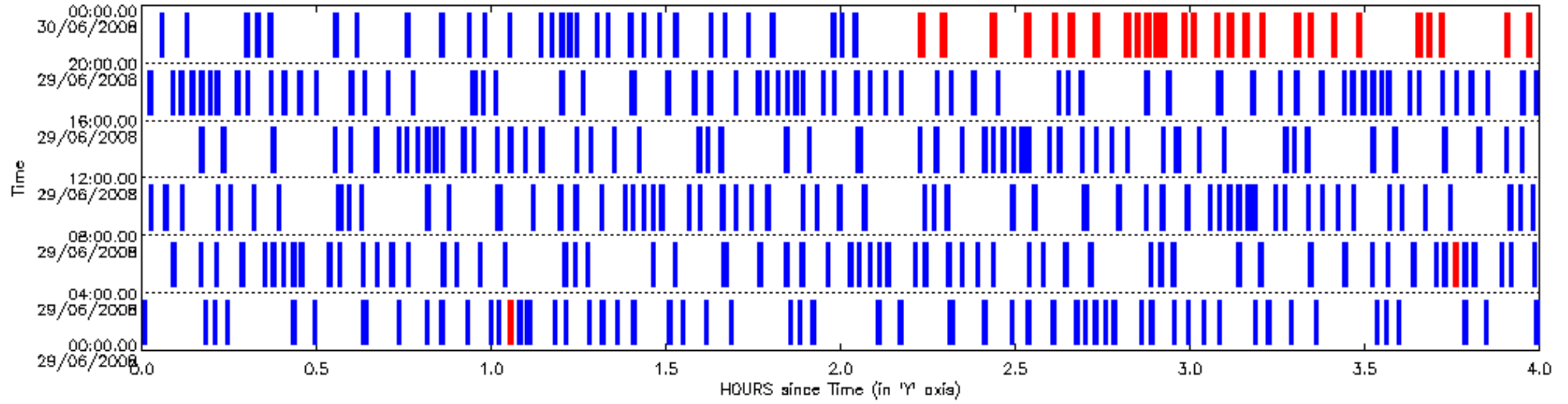
Lower curve: STD of SATU X axis

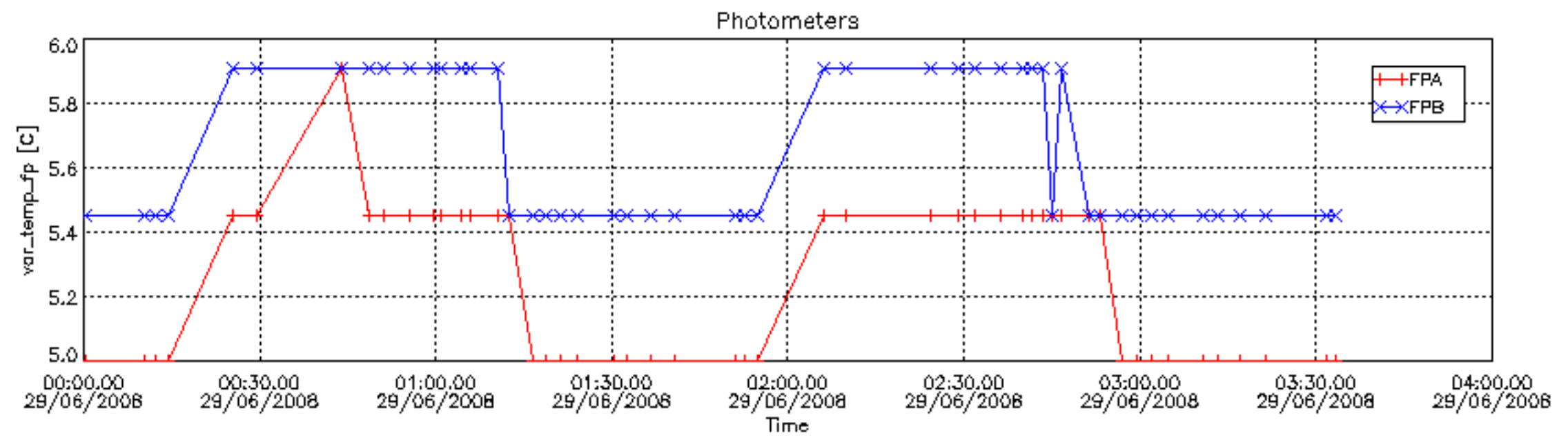
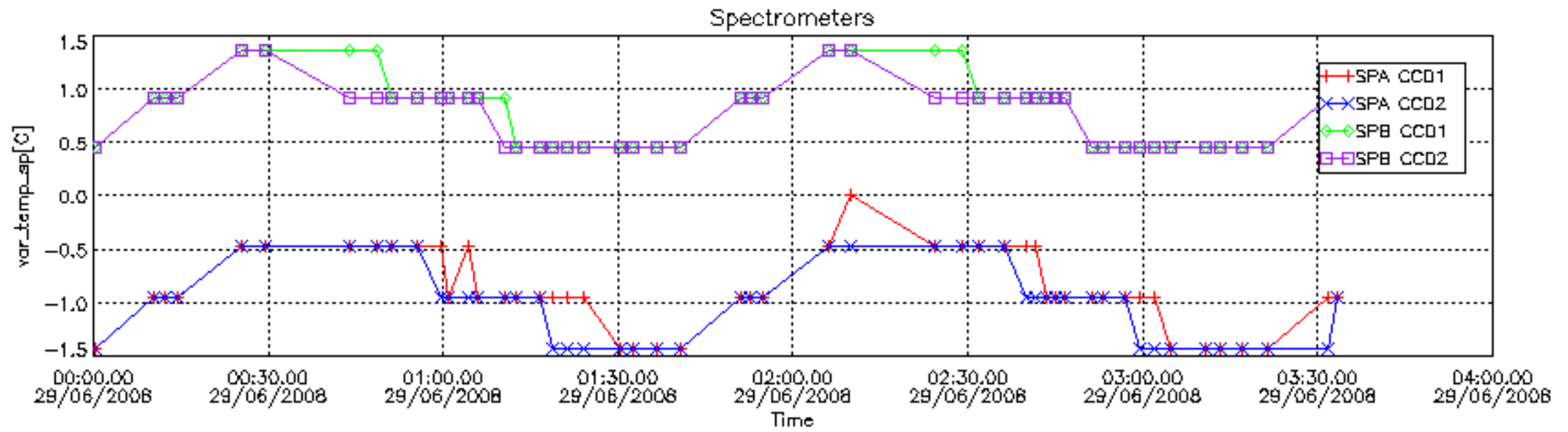


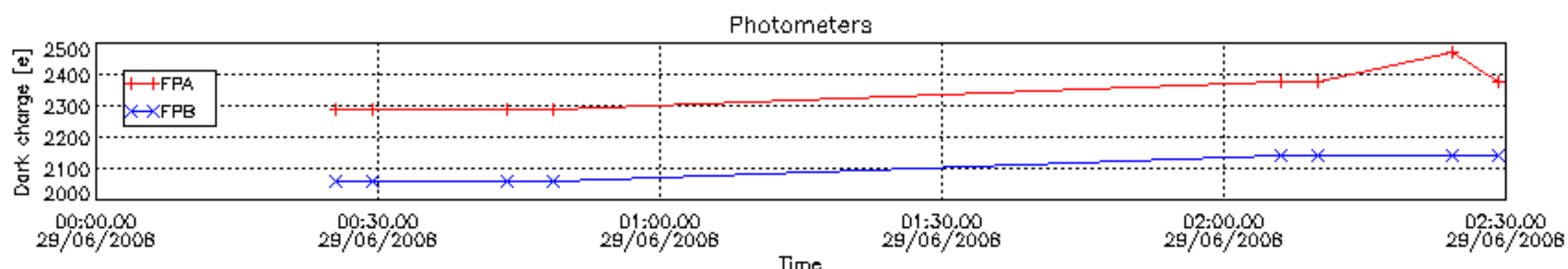
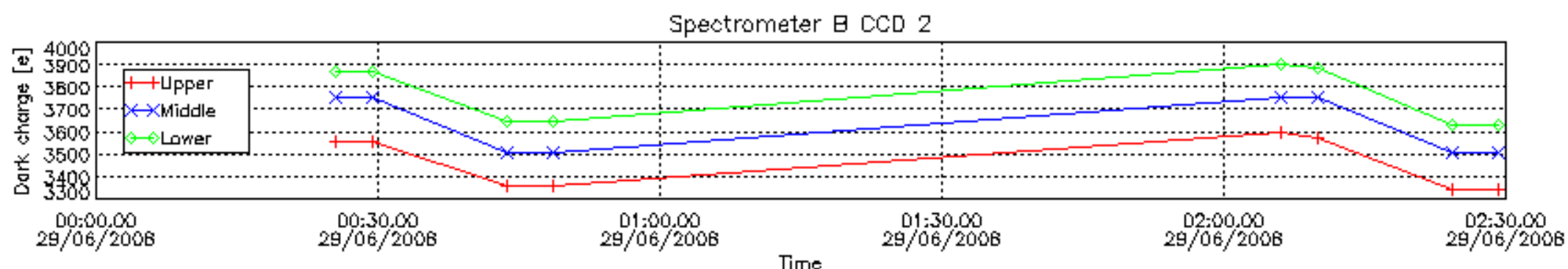
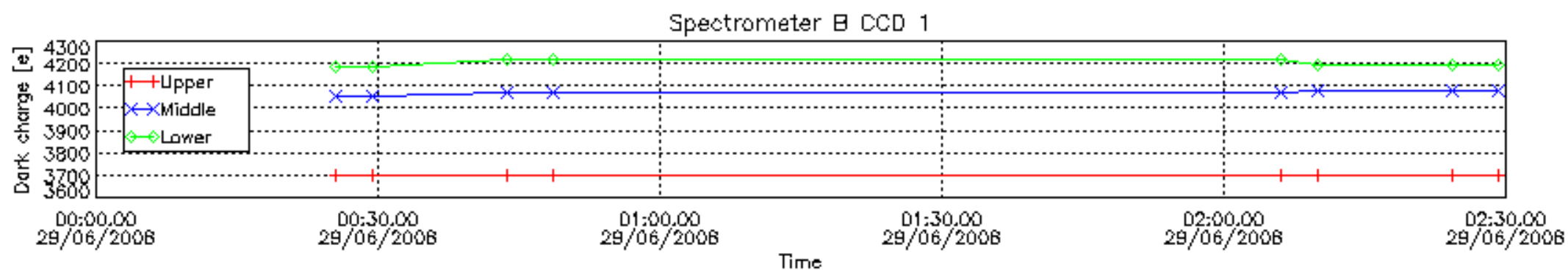
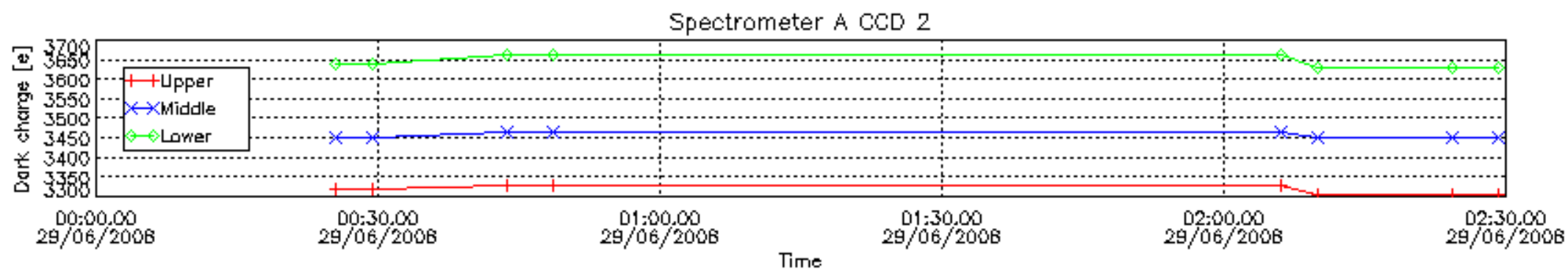
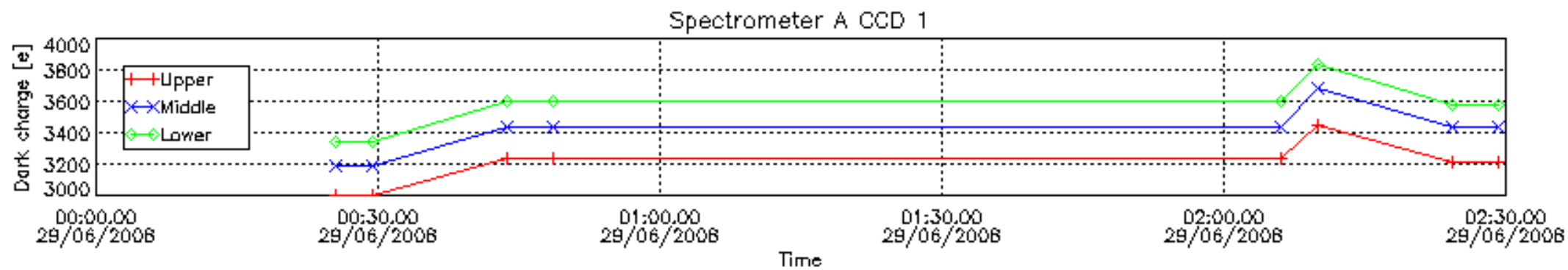
8. Auxiliary Data Files used for the production reported in section 2.4

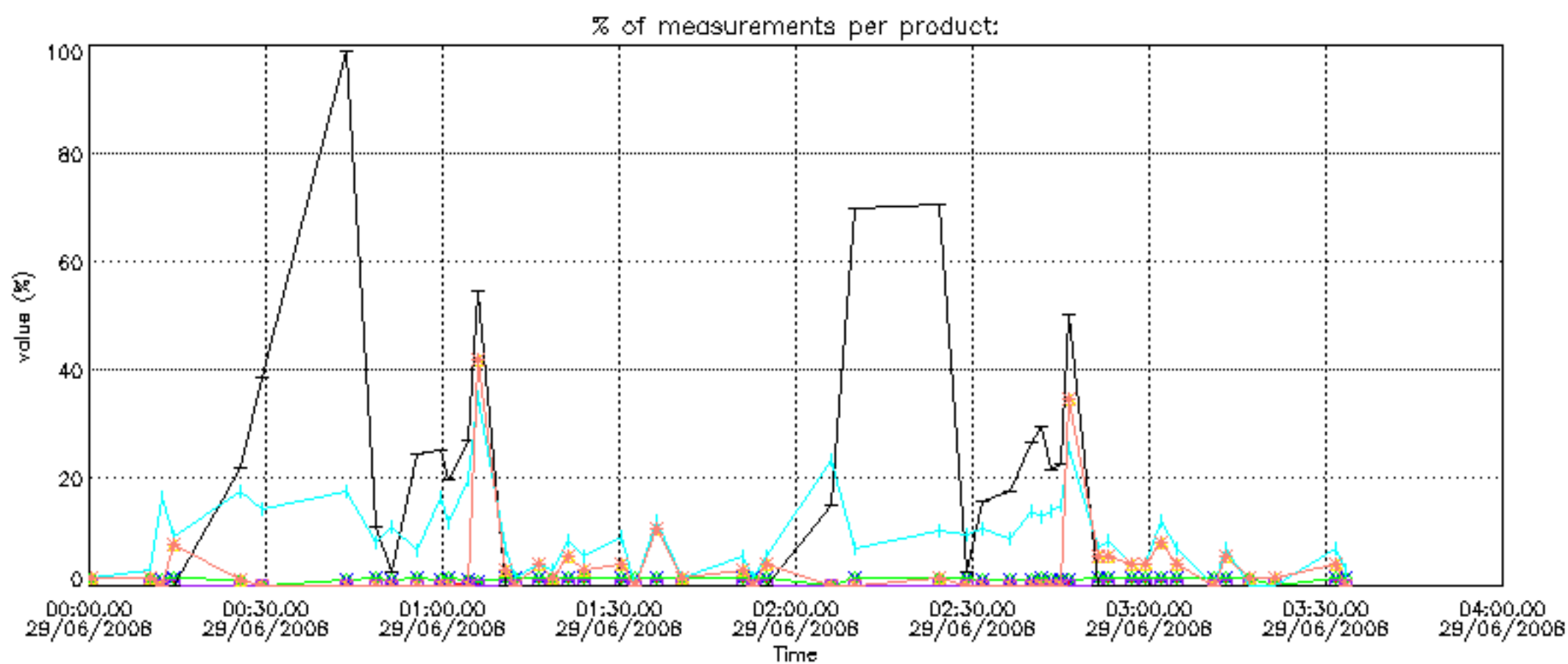
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	29-JUN-2008 00:00:11
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080620_084614_20080617_000000_20100101_000000	1	29-JUN-2008 00:00:11
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	29-JUN-2008 00:00:11
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	29-JUN-2008 00:00:11
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	29-JUN-2008 00:00:11
ECMWF_FILE	AUX_ECF_AXNECM20080628_072113_20080628_210000_20080629_090000	1	29-JUN-2008 00:00:11
ECMWF_FILE	AUX_ECF_AXNECM20080628_192113_20080629_030000_20080629_150000	49	29-JUN-2008 03:31:41
OPTIONAL_ECMWF_FILE	MISSING	1	29-JUN-2008 00:00:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080628_210055_000060572069_00472_33091_5849.N1	1	29-JUN-2008 00:00:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080628_224711_000057382069_00473_33092_5850.N1	7	29-JUN-2008 00:43:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080629_002808_000057382069_00474_33093_5851.N1	29	29-JUN-2008 02:09:56
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080629_020346_000044632069_00475_33094_5852.N1	49	29-JUN-2008 03:31:41

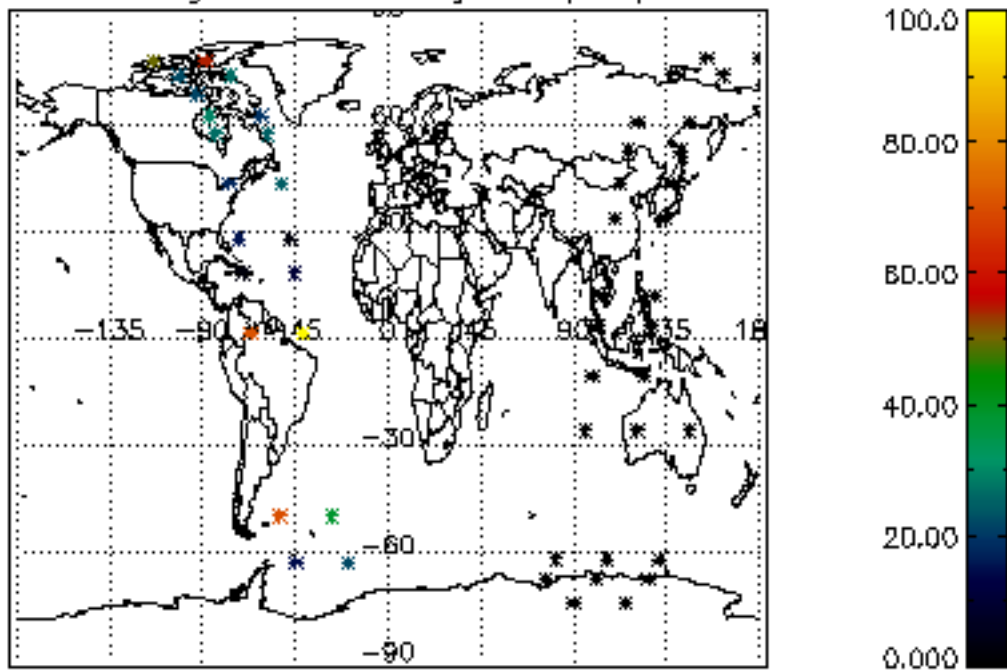




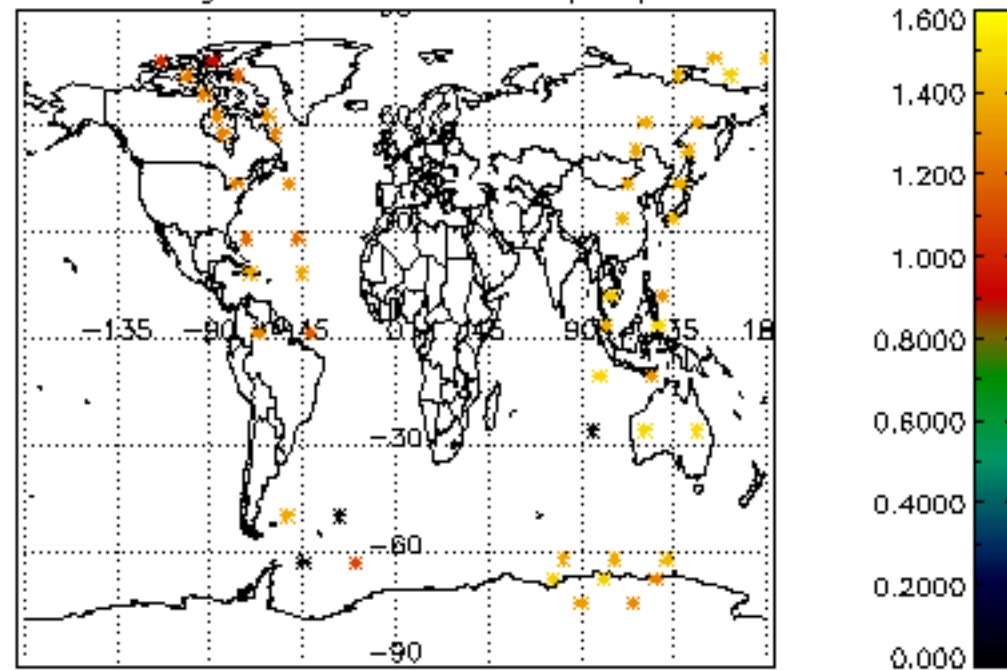




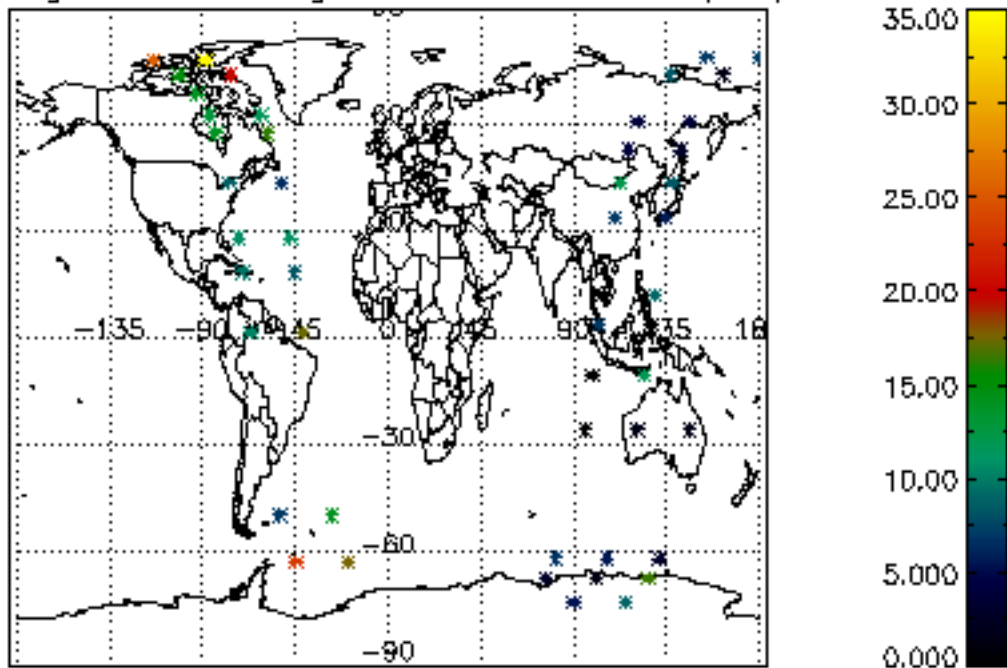
Percentage of cosmic ray hits per profile



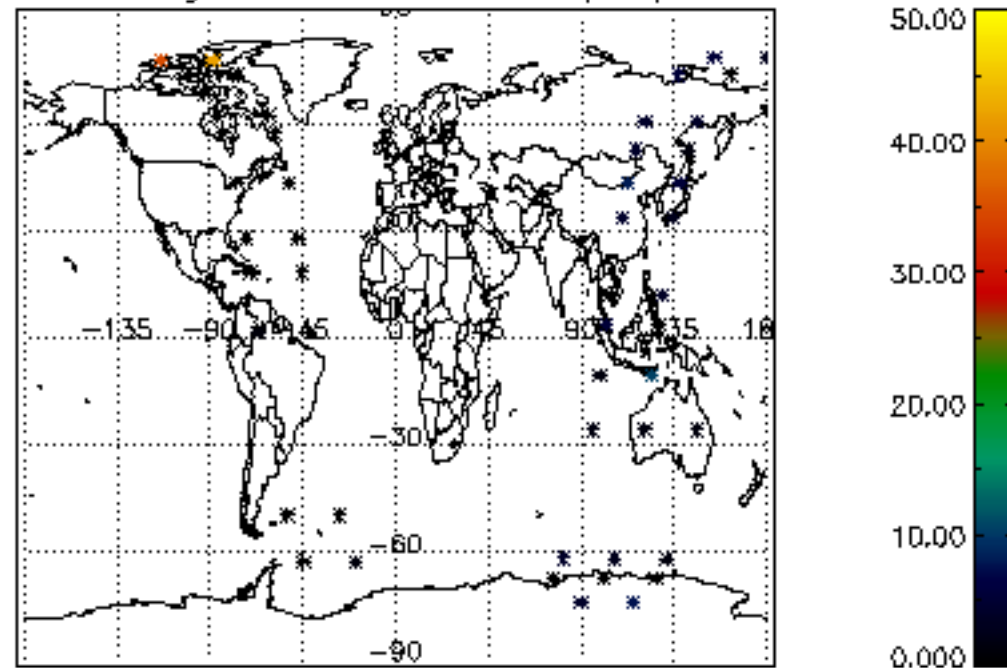
Percentage of datation errors per profile



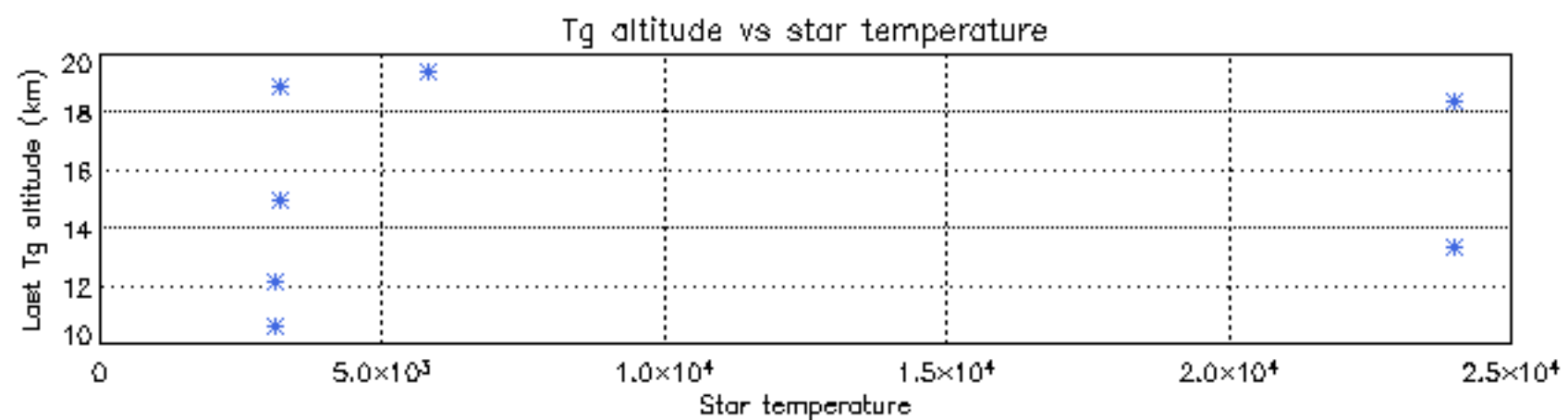
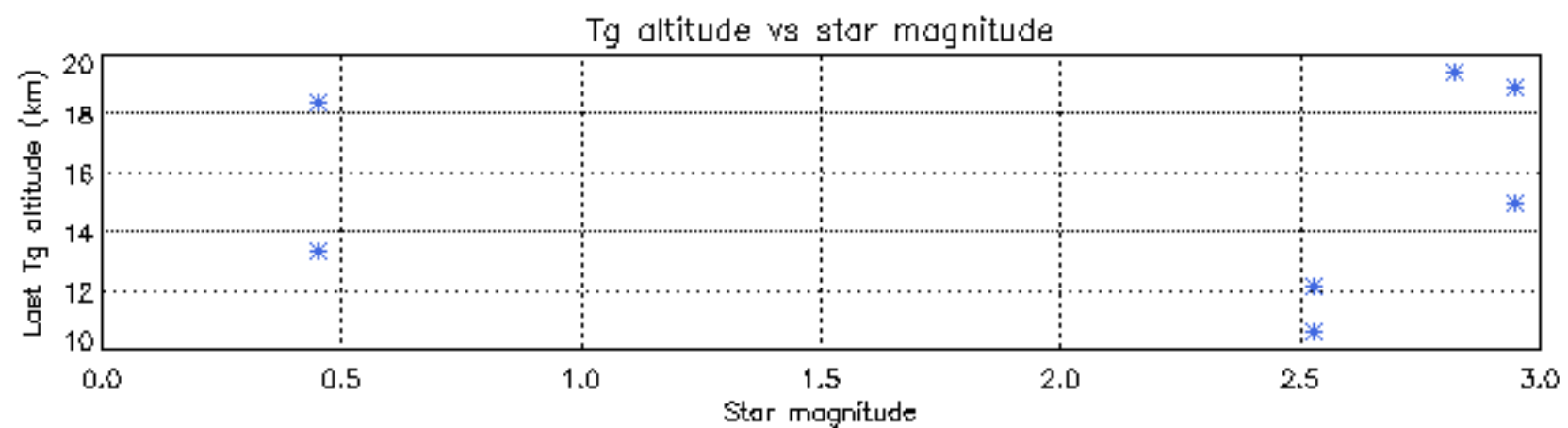
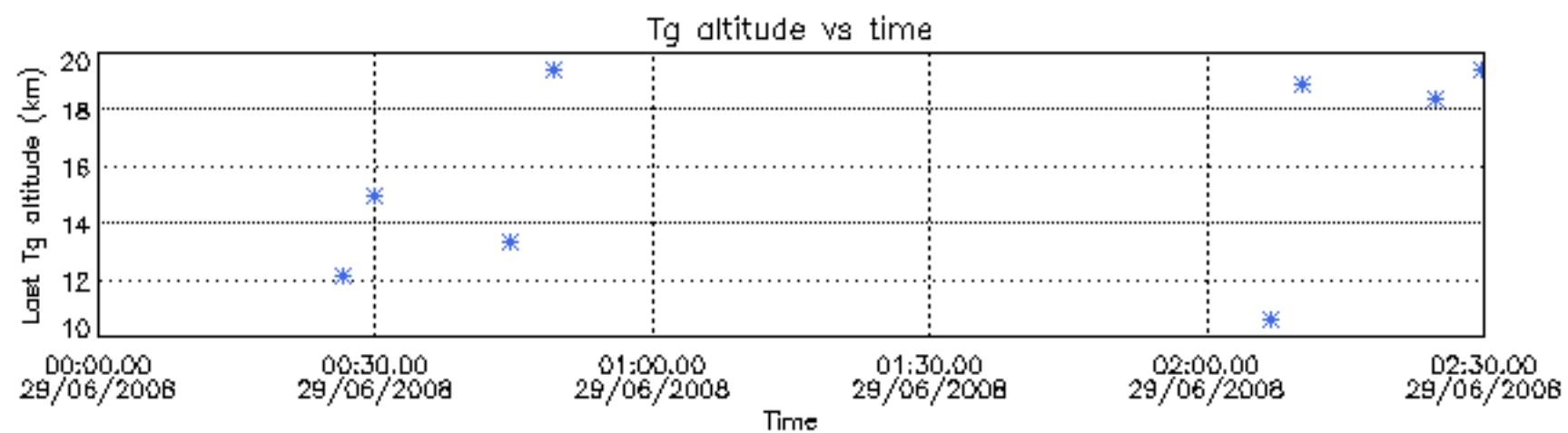
Percentage of star falling outside central band per profile



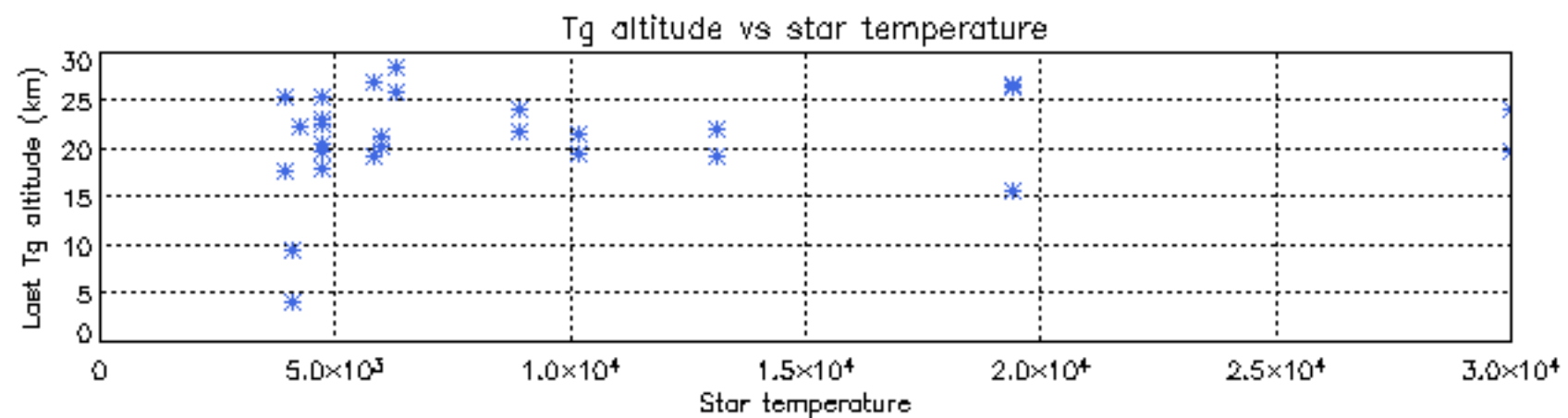
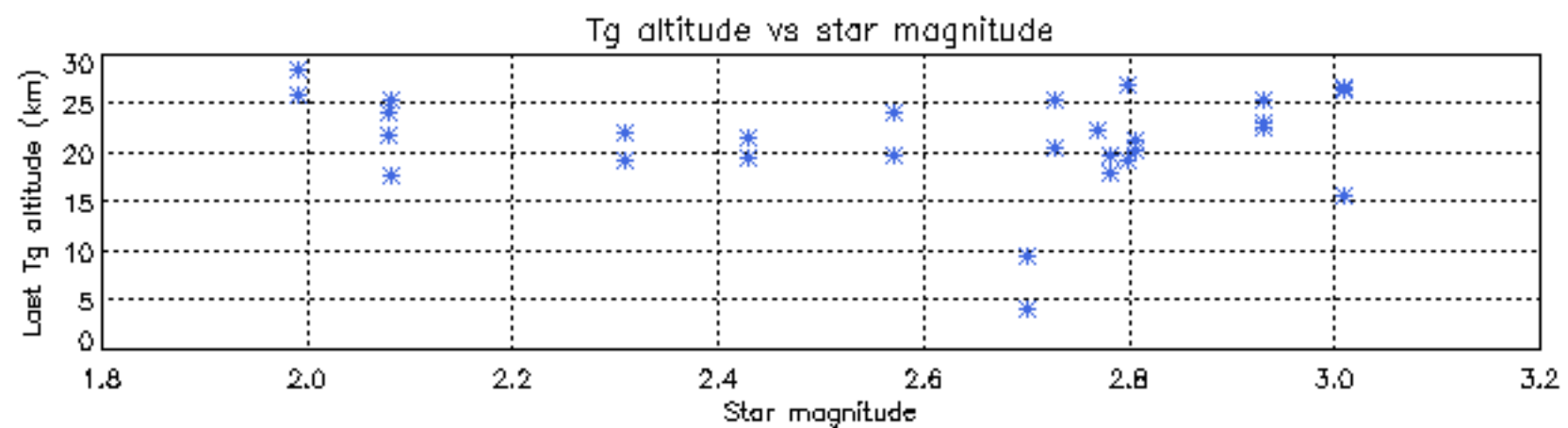
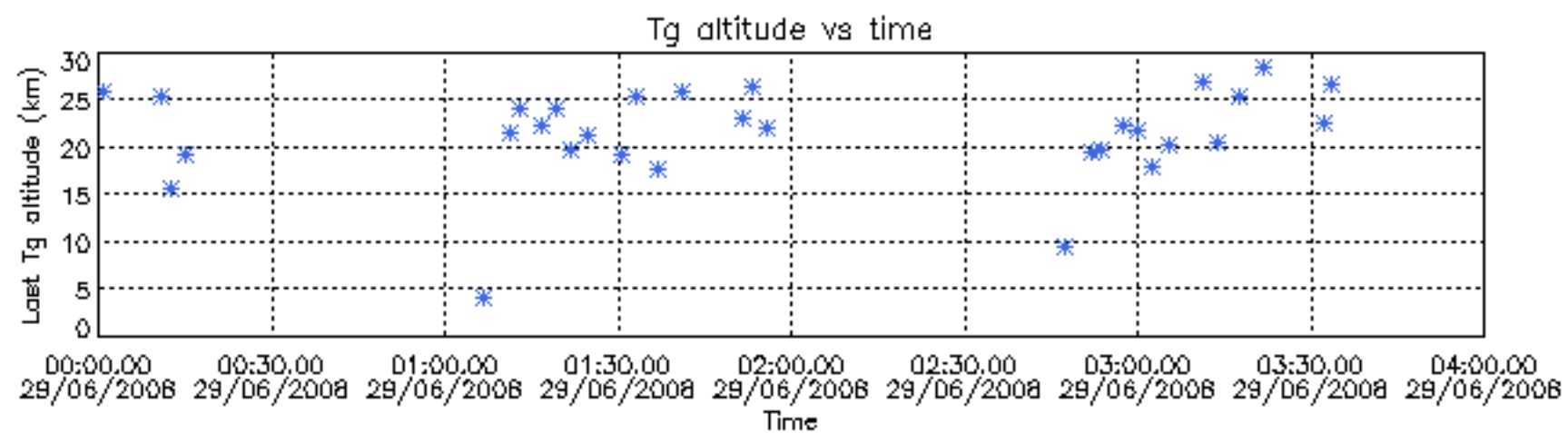
Percentage of saturation errors per profile

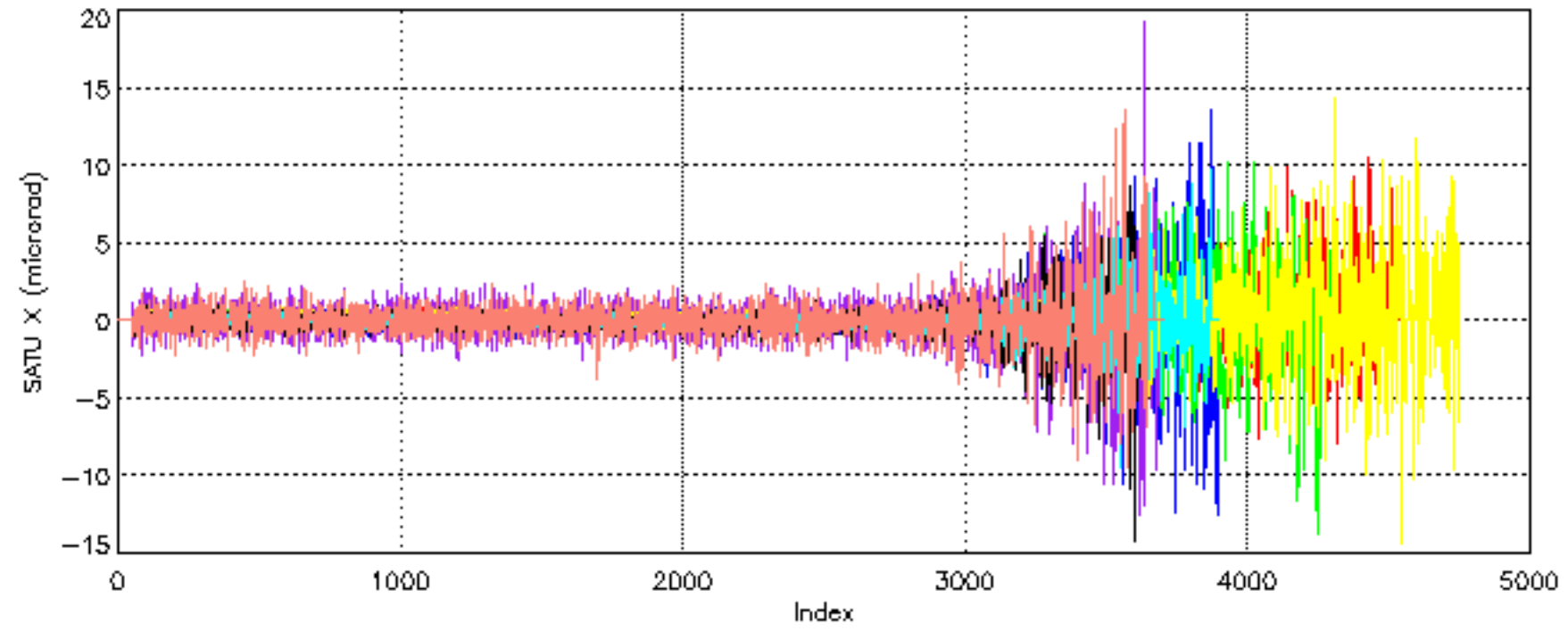


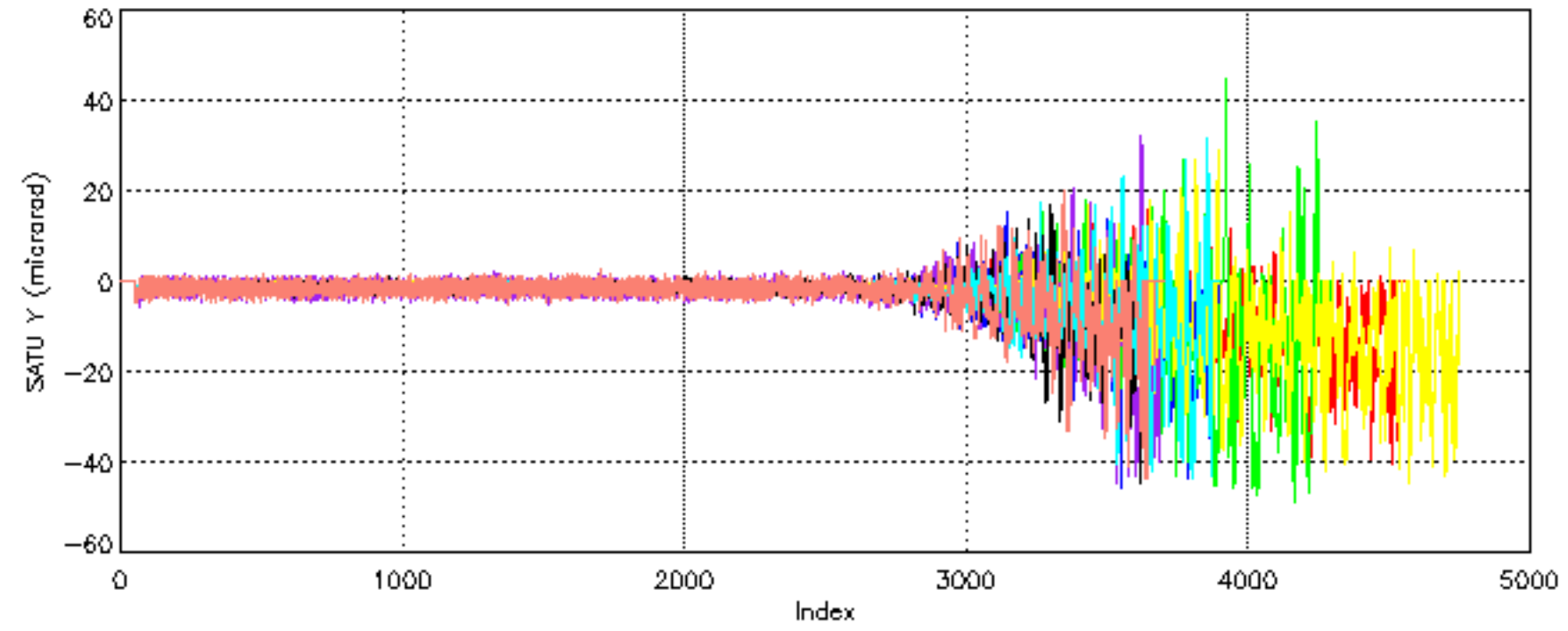
Tangent altitude at which the star is lost

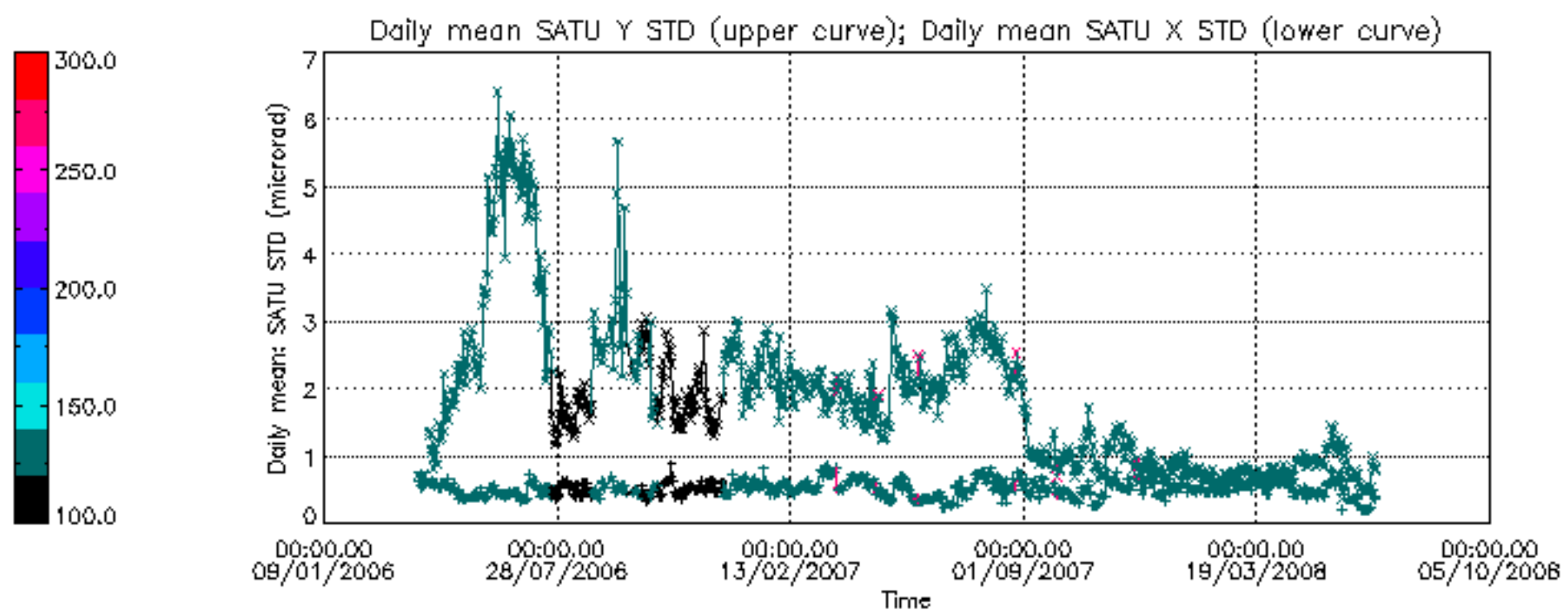


Tangent altitude at which the star is lost









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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
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 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
 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
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 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
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 24; 4855.2; 01-JUN-2008 01:44:08; Dark ; 52.5; 140; 88Gam Peg ; 2.83; 26000;occ; 105; 0;32693

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 4; 81.7; 01-JUN-2008 02:05:10; Dark ; 57.5; 63; Bet Gru ; 2.15; 2800;occ; 115; 0;32694
 5; 194.6; 01-JUN-2008 02:07:03; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;32694
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 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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 11; 1374.2; 01-JUN-2008 02:26:43; Dark ; 40.0; 136; 23Tau Sco ; 2.82; 30000;occ; 80; 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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 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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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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 8; 4399.1; 04-JUN-2008 10:05:17; Bright; 47.0; 53; 43Bet And ; 2.05; 3300;occ; 94; 0;32741
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12; 5426.8; 04-JUN-2008 10:22:24; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;32741
13; 5824.7; 04-JUN-2008 10:29:02; Dark ; 40.0; 84; Alp Phe ; 2.40; 4500;occ; 80; 0;32741
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17; 6560.3; 04-JUN-2008 10:41:18; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;32741
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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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 5; 2504.6; 04-JUN-2008 11:14:18; Bright; 42.0; 133; 40Zet Her ; 2.81; 6000;occ; 84; 0;32742
 6; 2944.6; 04-JUN-2008 11:21:38; Bright; 43.0; 130; 23Bet Dra ; 2.80; 5800;occ; 86; 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
 4; 2305.2; 04-JUN-2008 12:51:35; Bright; 59.0; 127; 27Bet Her ; 2.78; 4700;occ; 118; 0;32743
 5; 2504.3; 04-JUN-2008 12:54:54; Bright; 41.5; 133; 40Zet Her ; 2.81; 6000;occ; 83; 0;32743
 6; 2944.2; 04-JUN-2008 13:02:14; Bright; 43.5; 130; 23Bet Dra ; 2.80; 5800;occ; 87; 0;32743
 7; 3596.2; 04-JUN-2008 13:13:06; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;32743
 8; 3923.5; 04-JUN-2008 13:18:33; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;32743
 9; 4399.4; 04-JUN-2008 13:26:29; Bright; 46.0; 53; 43Bet And ; 2.05; 3300;occ; 92; 0;32743
 10; 4567.7; 04-JUN-2008 13:29:17; Dark ; 40.0; 58; 21Alp And ; 2.07; 11000;occ; 80; 0;32743
 11; 4643.4; 04-JUN-2008 13:30:33; Dark ; 41.5; 105; 6Bet Ari ; 2.64; 8900;occ; 83; 0;32743
 12; 4882.7; 04-JUN-2008 13:34:32; Dark ; 55.0; 140; 88Gam Peg ; 2.83; 26000;occ; 110; 0;32743
 13; 5333.0; 04-JUN-2008 13:42:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32743
 14; 5428.2; 04-JUN-2008 13:43:38; Dark ; 47.0; 52; 16Bet Cet ; 2.04; 4500;occ; 94; 0;32743
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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
 17; 6161.5; 04-JUN-2008 13:55:51; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 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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 22; 7202.4; 04-JUN-2008 14:13:12; Dark ; 46.5; 25; 35Lam Sco ; 1.62; 28000;occ; 93; 0;32743
 23; 7302.9; 04-JUN-2008 14:14:52; Dark ; 44.5; 75; 26Eps Sco ; 2.29; 4250;occ; 89; 0;32743
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 3; 1834.4; 04-JUN-2008 14:24:20; Bright; 38.5; 120; 1Del Oph ; 2.73; 3200;occ; 77; 0;32744
 4; 2014.8; 04-JUN-2008 14:27:20; Bright; 53.0; 102; 24Alp Ser ; 2.60; 4250;occ; 106; 0;32744
 5; 2305.0; 04-JUN-2008 14:32:10; Bright; 40.5; 127; 27Bet Her ; 2.78; 4700;occ; 81; 0;32744
 6; 2504.0; 04-JUN-2008 14:35:29; Bright; 42.5; 133; 40Zet Her ; 2.81; 6000;occ; 85; 0;32744
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 8; 3595.4; 04-JUN-2008 14:53:41; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;32744
 9; 3923.3; 04-JUN-2008 14:59:09; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;32744
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 16; 5826.6; 04-JUN-2008 15:30:52; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;32744
 17; 5987.8; 04-JUN-2008 15:33:33; Dark ; 57.0; 18; 24Alp PsA ; 1.17; 9700;occ; 114; 0;32744
 18; 6162.4; 04-JUN-2008 15:36:28; Dark ; 48.0; 63; Bet Gru ; 2.15; 2800;occ; 96; 0;32744
 19; 6279.1; 04-JUN-2008 15:38:24; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;32744
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 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
 7; 2304.7; 04-JUN-2008 16:12:46; Bright; 40.0; 127; 27Bet Her ; 2.78; 4700;occ; 80; 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
 10; 3594.8; 04-JUN-2008 16:34:16; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;32745
 11; 3923.2; 04-JUN-2008 16:39:44; Bright; 56.0; 76; 27Gam Cas ; 2.30; 30000;occ; 112; 0;32745
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 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
 24; 7096.8; 04-JUN-2008 17:32:38; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;32745
 25; 7203.2; 04-JUN-2008 17:34:25; Dark ; 17.0; 25; 35Lam Sco ; 1.62; 28000;occ; 34; 0;32745

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 3; 1267.4; 04-JUN-2008 17:36:05; Dark ; 42.0; 75; 26Eps Sco ; 2.29; 4250;occ; 84; 0;32746
 4; 1386.2; 04-JUN-2008 17:38:04; Dark ; 43.5; 136; 23Tau Sco ; 2.82; 30000;occ; 87; 0;32746
 5; 1596.9; 04-JUN-2008 17:41:34; Bright; 42.5; 86; 35Eta Oph ; 2.43; 10200;occ; 85; 0;32746
 6; 1705.6; 04-JUN-2008 17:43:23; Bright; 39.5; 98; 13Zet Oph ; 2.57; 30000;occ; 79; 0;32746
 7; 1834.4; 04-JUN-2008 17:45:32; Bright; 38.0; 120; 1Del Oph ; 2.73; 3200;occ; 76; 0;32746
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 22; 6281.0; 04-JUN-2008 18:59:38; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;32746
 23; 6563.7; 04-JUN-2008 19:04:21; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;32746
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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
 17; 1706.8; 06-JUN-2008 06:36:35; Bright; 39.0; 98; 13Zet Oph ; 2.57; 30000;occ; 78; 0;32768
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 5; 1708.1; 07-JUN-2008 21:10:23; Bright; 38.0; 98; 13Zet Oph ; 2.57; 30000;occ; 76; 0;32791
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14; 4405.5; 09-JUN-2008 19:11:30; Dark ; 58.0; 53; 43Bet And ; 2.05; 3300;occ; 116; 0;32818
15; 4602.9; 09-JUN-2008 19:14:47; Dark ; 48.5; 50; 13Alp Ari ; 2.01; 4250;occ; 97; 0;32818
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19; 6095.2; 09-JUN-2008 19:39:40; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;32818
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22; 6611.0; 09-JUN-2008 19:48:16; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;32818

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6; 318.0; 10-JUN-2008 00:45:46; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;32822
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10; 1292.1; 10-JUN-2008 01:02:00; Dark ; 58.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 116; 0;32822
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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13; 2030.5; 10-JUN-2008 01:14:19; Bright; 47.5; 126; 60Bet Oph ; 2.77; 4250;occ; 95; 0;32822
14; 2188.4; 10-JUN-2008 01:16:57; Bright; 48.0; 59; 55Alp Oph ; 2.08; 8900;occ; 96; 0;32822
15; 2286.9; 10-JUN-2008 01:18:35; Bright; 39.0; 127; 27Bet Her ; 2.78; 4700;occ; 78; 0;32822
16; 2477.2; 10-JUN-2008 01:21:45; Bright; 40.5; 133; 40Zet Her ; 2.81; 6000;occ; 81; 0;32822
17; 2902.1; 10-JUN-2008 01:28:50; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;32822
18; 3545.3; 10-JUN-2008 01:39:33; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;32822
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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11; 1605.0; 10-JUN-2008 02:47:49; Bright; 41.0; 86; 35Eta Oph ; 2.43; 10200;occ; 82; 0;32823
12; 1710.7; 10-JUN-2008 02:49:35; Bright; 38.5; 98; 13Zet Oph ; 2.57; 30000;occ; 77; 0;32823
13; 2030.4; 10-JUN-2008 02:54:54; Bright; 47.5; 126; 60Bet Oph ; 2.77; 4250;occ; 95; 0;32823
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17; 2901.8; 10-JUN-2008 03:09:26; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;32823
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3;-1769.5; 10-JUN-2008 03:32:10; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;32823
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6; -659.2; 10-JUN-2008 03:50:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;32823
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13; 1090.3; 10-JUN-2008 04:19:50; Dark ; 44.5; 40; The Sco ; 1.86; 7100;occ; 89; 0;32824
14; 1194.9; 10-JUN-2008 04:21:35; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;32824
15; 1293.2; 10-JUN-2008 04:23:13; Dark ; 62.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 125; 0;32824
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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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21; 2476.9; 10-JUN-2008 04:42:57; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;32824
22; 2901.4; 10-JUN-2008 04:50:01; Bright; 41.0; 130; 23Bet Dra ; 2.80; 5800;occ; 82; 0;32824
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7; -156.8; 10-JUN-2008 05:39:39; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;32824
8; 68.6; 10-JUN-2008 05:43:25; Dark ; 36.0; 18; 24Alp PsA ; 1.17; 9700;occ; 72; 0;32825
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12; 1090.6; 10-JUN-2008 06:00:27; Dark ; 47.0; 40; The Sco ; 1.86; 7100;occ; 94; 0;32825
13; 1195.1; 10-JUN-2008 06:02:11; Dark ; 40.0; 25; 35Lam Sco ; 1.62; 28000;occ; 80; 0;32825
14; 1293.5; 10-JUN-2008 06:03:49; Dark ; 58.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 116; 0;32825
15; 1605.3; 10-JUN-2008 06:09:01; Bright; 39.0; 86; 35Eta Oph ; 2.43; 10200;occ; 78; 0;32825
16; 1711.1; 10-JUN-2008 06:10:47; Bright; 40.5; 98; 13Zet Oph ; 2.57; 30000;occ; 81; 0;32825
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18; 2187.3; 10-JUN-2008 06:18:43; Bright; 47.0; 59; 55Alp Oph ; 2.08; 8900;occ; 94; 0;32825
19; 2286.7; 10-JUN-2008 06:20:23; Bright; 56.0; 127; 27Bet Her ; 2.78; 4700;occ; 112; 0;32825
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3; 1297.5; 10-JUN-2008 21:09:17; Dark ; 56.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 113; 0;32834
4; 1606.2; 10-JUN-2008 21:14:26; Bright; 40.5; 86; 35Eta Oph ; 2.43; 10200;occ; 81; 0;32834
5; 1711.7; 10-JUN-2008 21:16:11; Bright; 37.5; 98; 13Zet Oph ; 2.57; 30000;occ; 75; 0;32834

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 8; 2285.1; 10-JUN-2008 21:25:45; Bright; 37.5; 127; 27Bet Her ; 2.78; 4700;occ; 75; 0;32834
 9; 2474.0; 10-JUN-2008 21:28:53; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;32834
 10; 2896.6; 10-JUN-2008 21:35:56; Bright; 42.5; 130; 23Bet Dra ; 2.80; 5800;occ; 85; 0;32834
 11; 3537.4; 10-JUN-2008 21:46:37; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;32834
 12; 3909.7; 10-JUN-2008 21:52:49; Bright; 55.0; 76; 27Gam Cas ; 2.30; 30000;occ; 110; 0;32834
 13; 4267.0; 10-JUN-2008 21:58:46; Bright; 41.0; 73; 57Gam1And ; 2.26; 13100;occ; 82; 0;32834
 14; 4406.8; 10-JUN-2008 22:01:06; Dark ; 53.0; 53; 43Bet And ; 2.05; 3300;occ; 106; 0;32834
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 9; 1198.2; 10-JUN-2008 22:48:14; Dark ; 45.5; 25; 35Lam Sco ; 1.62; 28000;occ; 91; 0;32835
 10; 1298.0; 10-JUN-2008 22:49:53; Dark ; 54.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 109; 0;32835
 11; 1606.1; 10-JUN-2008 22:55:01; Bright; 41.0; 86; 35Eta Oph ; 2.43; 10200;occ; 82; 0;32835
 12; 1711.8; 10-JUN-2008 22:56:47; Bright; 38.0; 98; 13Zet Oph ; 2.57; 30000;occ; 76; 0;32835
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 16; 2473.7; 10-JUN-2008 23:09:29; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;32835
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 21; 4406.8; 10-JUN-2008 23:41:42; Dark ; 62.0; 53; 43Bet And ; 2.05; 3300;occ; 124; 0;32835
 22; 4606.4; 10-JUN-2008 23:45:02; Dark ; 49.0; 50; 13Alp Ari ; 2.01; 4250;occ; 98; 0;32835
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 3; -149.1; 11-JUN-2008 00:06:22; Dark ; 41.5; 84; Alp Phe ; 2.40; 4500;occ; 83; 0;32835
 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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 7; 585.8; 11-JUN-2008 00:18:37; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;32836
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 10; 1298.3; 11-JUN-2008 00:30:29; Dark ; 73.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 147; 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
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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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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
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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
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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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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
14; 5507.7; 11-JUN-2008 13:24:50; Dark ; 54.5; 52; 16Bet Cet ; 2.04; 4500;occ; 109; 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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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
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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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20; 2888.0; 12-JUN-2008 05:27:10; Bright; 60.0; 130; 23Bet Dra ; 2.80; 5800;occ; 120; 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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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
18;	4621.3;	15-JUN-2008	17:46:00;	Dark	;	48.0;	50;	13Alp	Ari	;	2.01;	4250;	occ;	96;	0;	32903
19;	4907.2;	15-JUN-2008	17:50:46;	Dark	;	49.5;	94;	92Alp	Cet	;	2.53;	3100;	occ;	99;	0;	32903
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
6;	1614.3;	15-JUN-2008	18:36:29;	Bright;	;	39.0;	86;	35Eta	Oph	;	2.43;	10200;	occ;	78;	0;	32904
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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23;	5939.0;	15-JUN-2008	19:48:34;	Dark	;	49.0;	84;	Alp	Phe	;	2.40;	4500;	occ;	98;	0;	32904
24;	6312.8;	15-JUN-2008	19:54:47;	Dark	;	52.0;	63;	Bet	Gru	;	2.15;	2800;	occ;	104;	0;	32904
25;	6664.6;	15-JUN-2008	20:00:39;	Dark	;	42.0;	45;	Alp	Pav	;	1.94;	26000;	occ;	84;	0;	32904
26;	6965.5;	15-JUN-2008	20:05:40;	Dark	;	44.5;	141;	Bet	Ara	;	2.84;	4600;	occ;	89;	0;	32904
27;	7047.6;	15-JUN-2008	20:07:02;	Dark	;	20.0;	147;	Alp	Ara	;	2.88;	26000;	occ;	40;	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
5;	930.3;	16-JUN-2008	01:07:28;	Dark	;	40.0;	141;	Bet	Ara	;	2.84;	4600;	occ;	80;	0;	32908
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7;	1117.8;	16-JUN-2008	01:10:36;	Dark	;	41.5;	40;	The	Sco	;	1.86;	7100;	occ;	83;	0;	32908
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 18; 2960.7; 16-JUN-2008 01:41:19; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;32908
 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
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 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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 13; 1118.3; 16-JUN-2008 04:31:48; Dark ; 38.0; 40; The Sco ; 1.86; 7100;occ; 76; 0;32910
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 15; 1307.4; 16-JUN-2008 04:34:57; Dark ; 43.0; 75; 26Eps Sco ; 2.29; 4250;occ; 86; 0;32910
 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
 24; 2960.5; 16-JUN-2008 05:02:31; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;32910
 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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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
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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
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 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
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 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
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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
 7; 2838.7; 21-JUN-2008 14:06:35; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;32987
 8; 2953.9; 21-JUN-2008 14:08:30; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;32987
 9; 3176.3; 21-JUN-2008 14:12:13; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;32987
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 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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 22; 7070.5; 21-JUN-2008 16:57:43; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;32988
 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
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18; 3870.4; 22-JUN-2008 22:15:10; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;33006
19; 4065.1; 22-JUN-2008 22:18:24; Bright; 54.0; 160; 23Gam Per ; 2.93; 4700;occ; 108; 0;33006
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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
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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
18;	3870.1;	22-JUN-2008	23:55:45;	Bright;		50.0;	76;	27Gam Cas	;	2.30;	30000;occ;	100;	0;33007
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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5;	-1102.4;	22-JUN-2008	07:27:30;	Dark	;	37.0;	94;	92Alp Cet	;	2.53;	3100;occ;	74;	0;32997
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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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
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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
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21;	7280.5;	22-JUN-2008	09:47:12;	Dark	;	43.0;	25;	35Lam Sco	;	1.62;	28000;occ;	86;	0;32998
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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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22; 7437.3; 22-JUN-2008 11:30:25; Bright; 44.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 89; 0;32999
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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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4;-1619.8; 23-JUN-2008 06:47:15; Dark ; 46.0; 173; 4Bet Tri ; 3.00; 8900;occ; 92; 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
10; 690.6; 23-JUN-2008 07:25:46; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;33012
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13; 1329.0; 23-JUN-2008 07:36:24; Dark ; 56.5; 116; 19Del Sgr ; 2.70; 4100;occ; 113; 0;33012
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3; 2132.9; 23-JUN-2008 07:49:48; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;33012
4; 2274.7; 23-JUN-2008 07:52:10; Bright; 34.0; 127; 27Bet Her ; 2.78; 4700;occ; 68; 0;33012
5; 2447.1; 23-JUN-2008 07:55:02; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;33012
6; 2831.7; 23-JUN-2008 08:01:27; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;33012
7; 2952.7; 23-JUN-2008 08:03:28; Bright; 35.5; 119; 14Eta Dra ; 2.73; 4700;occ; 71; 0;33012
8; 3178.6; 23-JUN-2008 08:07:14; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;33012
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
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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
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
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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
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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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 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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 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
18; 6423.3; 23-JUN-2008 15:43:42; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;33016
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
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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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18; 6026.1; 23-JUN-2008 17:17:41; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;33017
19; 6424.3; 23-JUN-2008 17:24:19; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;33017
20; 6729.8; 23-JUN-2008 17:29:24; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;33017
21; 7184.4; 23-JUN-2008 17:36:59; Dark ; 39.0; 40; The Sco ; 1.86; 7100;occ; 78; 0;33017

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3; 1330.6; 23-JUN-2008 17:40:01; Dark ; 58.0; 116; 19Del Sgr ; 2.70; 4100;occ; 116; 0;33018
4; 1628.7; 23-JUN-2008 17:44:59; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;33018
5; 1732.6; 23-JUN-2008 17:46:43; Bright; 36.0; 98; 13Zet Oph ; 2.57; 30000;occ; 72; 0;33018
6; 1988.1; 23-JUN-2008 17:50:59; Bright; 58.0; 126; 60Bet Oph ; 2.77; 4250;occ; 116; 0;33018
7; 2132.0; 23-JUN-2008 17:53:22; Bright; 40.5; 59; 55Alp Oph ; 2.08; 8900;occ; 81; 0;33018
8; 2274.9; 23-JUN-2008 17:55:45; Bright; 51.0; 127; 27Bet Her ; 2.78; 4700;occ; 102; 0;33018
9; 2446.8; 23-JUN-2008 17:58:37; Bright; 37.5; 133; 40Zet Her ; 2.81; 6000;occ; 75; 0;33018
10; 2830.2; 23-JUN-2008 18:05:01; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;33018
11; 2952.4; 23-JUN-2008 18:07:03; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33018
12; 3179.2; 23-JUN-2008 18:10:50; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;33018
13; 3446.1; 23-JUN-2008 18:15:17; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33018
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
20; 6026.9; 23-JUN-2008 20:38:53; Dark ; 52.0; 9; Alp Eri ; 0.45; 24000;occ; 104; 0;33019
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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15; 2952.3; 24-JUN-2008 02:30:02; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;33023
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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19; 2828.5; 24-JUN-2008 05:49:10; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 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
 4; 1632.8; 25-JUN-2008 20:03:01; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;33048
 5; 1985.4; 25-JUN-2008 20:08:54; Bright; 38.5; 126; 60Bet Oph ; 2.77; 4250;occ; 77; 0;33048
 6; 2127.9; 25-JUN-2008 20:11:16; Bright; 37.5; 59; 55Alp Oph ; 2.08; 8900;occ; 75; 0;33048
 7; 2276.5; 25-JUN-2008 20:13:45; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;33048
 8; 2446.1; 25-JUN-2008 20:16:34; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;33048
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 10; 2951.7; 25-JUN-2008 20:25:00; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;33048
 11; 3182.6; 25-JUN-2008 20:28:51; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;33048
 12; 3445.9; 25-JUN-2008 20:33:14; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33048
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 15; 4270.1; 25-JUN-2008 20:46:58; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;33048
 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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 11; 2127.6; 25-JUN-2008 21:51:52; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;33049
 12; 2276.5; 25-JUN-2008 21:54:21; Bright; 36.0; 127; 27Bet Her ; 2.78; 4700;occ; 72; 0;33049
 13; 2446.0; 25-JUN-2008 21:57:10; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 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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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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 9; 706.1; 25-JUN-2008 08:03:23; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;33041
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11; 1254.5; 25-JUN-2008 08:12:31; Dark ; 39.5; 25; 35Lam Sco ; 1.62; 28000;occ; 79; 0;33041
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 3; 2276.0; 25-JUN-2008 08:29:33; Bright; 35.0; 127; 27Bet Her ; 2.78; 4700;occ; 70; 0;33041
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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
 8; 3446.1; 25-JUN-2008 08:49:03; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;33041
 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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12; 4418.9; 25-JUN-2008 09:05:16; Dark ; 46.5; 173; 4Bet Tri ; 3.00; 8900;occ; 93; 0;33041
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21; 7667.9; 25-JUN-2008 09:59:25; Bright; 36.5; 86; 35Eta Oph ; 2.43; 10200;occ; 73; 0;33041
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9;	3187.4;	28-JUN-2008	12:11:41;	Bright;	34.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	69;	0;	33086	
10;	3445.8;	28-JUN-2008	12:15:59;	Bright;	33.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	66;	0;	33086	
11;	4064.1;	28-JUN-2008	12:26:18;	Bright;	45.5;	160;	23Gam	Per	;	2.93;	4700;	occ;	91;	0;	33086	
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14;	4964.7;	28-JUN-2008	12:41:18;	Dark	;	45.0;	94;	92Alp	Cet	;	2.53;	3100;	occ;	90;	0;	33086
15;	5193.1;	28-JUN-2008	12:45:07;	Dark	;	40.0;	165;	34Gam	Eri	;	2.95;	3200;	occ;	80;	0;	33086
16;	5698.2;	28-JUN-2008	12:53:32;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	33086
17;	6057.2;	28-JUN-2008	12:59:31;	Dark	;	50.0;	9;	Alp	Eri	;	0.45;	24000;	occ;	100;	0;	33086
18;	6345.1;	28-JUN-2008	13:04:19;	Dark	;	36.5;	135;	Bet	Hyi	;	2.82;	5800;	occ;	73;	0;	33086
19;	6500.9;	28-JUN-2008	13:06:54;	Dark	;	41.5;	148;	Alp	Tuc	;	2.88;	4100;	occ;	83;	0;	33086
20;	6766.1;	28-JUN-2008	13:11:20;	Dark	;	42.0;	45;	Alp	Pav	;	1.94;	26000;	occ;	84;	0;	33086
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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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	
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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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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	
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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	
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19; 6502.3; 28-JUN-2008 16:28:07; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;33088
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 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
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11; 3187.8; 28-JUN-2008 17:13:29; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;33089
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