

GOMOS Daily Report 16-NOV-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	18NOV2008 05:43:30
Data source version	GOMOS/5.00
Start time of products	16NOV2008 00:21:44
Stop time of products	16NOV2008 04:18:07
Store outputs in DB	Yes
Nb of level 1b prods	36
Nb of prods with errors	0

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

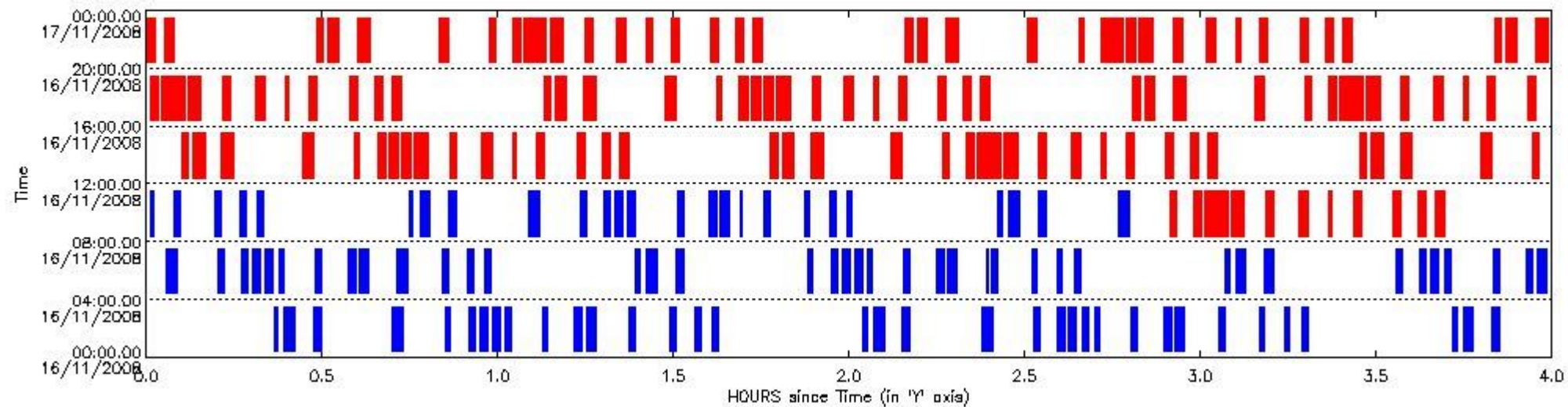
2.1 Level 0 products arrived in PCF (see template [here](#))

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
16-NOV-2008 10:54:45	DSA1057	0	35104
16-NOV-2008 10:58:48	PiPup	117	35104
16-NOV-2008 11:00:40	31EtaCMa	88	35104
16-NOV-2008 11:02:52	21EpsCMa	23	35104
16-NOV-2008 11:05:10	24Omi2CMa	179	35104
16-NOV-2008 11:11:13	2BetCMa	47	35104
16-NOV-2008 11:16:45	19BetOri	7	35104
16-NOV-2008 11:21:55	34DelOri	72	35104
16-NOV-2008 11:26:03	87AlpTau	13	35104
16-NOV-2008 11:32:54	3IotAur	114	35104
16-NOV-2008 11:37:14	13AlpAur	6	35104
16-NOV-2008 11:40:11	34BetAur	42	35104
16-NOV-2008 12:06:01	68DelLeo	96	35104
16-NOV-2008 12:07:56	17EpsLeo	166	35104
16-NOV-2008 12:12:52	32AlpLeo	22	35104

16-NOV-2008 12:26:35	30AlpHya	48	35104
16-NOV-2008 12:35:23	DSA1057	0	35105
16-NOV-2008 12:39:25	PiPup	117	35105
16-NOV-2008 12:41:17	31EtaCMa	88	35105
16-NOV-2008 12:43:29	21EpsCMa	23	35105
16-NOV-2008 12:45:47	24Omi2CMa	179	35105
16-NOV-2008 12:51:49	2BetCMa	47	35105
16-NOV-2008 12:57:20	19BetOri	7	35105
16-NOV-2008 13:02:30	34DelOri	72	35105
16-NOV-2008 13:06:38	87AlpTau	13	35105
16-NOV-2008 13:13:29	3lotAur	114	35105
16-NOV-2008 13:17:49	13AlpAur	6	35105
16-NOV-2008 13:20:46	34BetAur	42	35105
16-NOV-2008 13:46:37	68DelLeo	96	35105
16-NOV-2008 13:48:33	17EpsLeo	166	35105
16-NOV-2008 13:53:30	32AlpLeo	22	35105
16-NOV-2008 14:07:14	30AlpHya	48	35105
16-NOV-2008 14:16:01	DSA1057	0	35106
16-NOV-2008 14:20:02	PiPup	117	35106
16-NOV-2008 14:21:55	31EtaCMa	88	35106
16-NOV-2008 14:24:06	21EpsCMa	23	35106
16-NOV-2008 14:26:25	24Omi2CMa	179	35106
16-NOV-2008 14:32:26	2BetCMa	47	35106
16-NOV-2008 14:37:56	19BetOri	7	35106
16-NOV-2008 14:43:04	34DelOri	72	35106
16-NOV-2008 14:47:13	87AlpTau	13	35106
16-NOV-2008 14:54:04	3lotAur	114	35106
16-NOV-2008 14:58:24	13AlpAur	6	35106
16-NOV-2008 15:01:21	34BetAur	42	35106
16-NOV-2008 15:27:13	68DelLeo	96	35106
16-NOV-2008 15:29:10	17EpsLeo	166	35106
16-NOV-2008 15:34:07	32AlpLeo	22	35106
16-NOV-2008 15:47:54	30AlpHya	48	35106
16-NOV-2008 15:56:39	DSA1057	0	35107
16-NOV-2008 16:00:39	PiPup	117	35107
16-NOV-2008 16:02:32	31EtaCMa	88	35107
16-NOV-2008 16:04:43	21EpsCMa	23	35107
16-NOV-2008 16:07:02	24Omi2CMa	179	35107
16-NOV-2008 16:13:02	2BetCMa	47	35107
16-NOV-2008 16:18:32	19BetOri	7	35107
16-NOV-2008 16:23:39	34DelOri	72	35107
16-NOV-2008 16:27:48	87AlpTau	13	35107
16-NOV-2008 16:34:39	3lotAur	114	35107
16-NOV-2008 16:38:59	13AlpAur	6	35107
16-NOV-2008 16:41:55	34BetAur	42	35107
16-NOV-2008 17:07:50	68DelLeo	96	35107
16-NOV-2008 17:09:47	17EpsLeo	166	35107
16-NOV-2008 17:14:45	32AlpLeo	22	35107
16-NOV-2008 17:28:33	30AlpHya	48	35107
16-NOV-2008 17:37:17	DSA1057	0	35108
16-NOV-2008 17:41:16	PiPup	117	35108
16-NOV-2008 17:43:09	31EtaCMa	88	35108
16-NOV-2008 17:45:20	21EpsCMa	23	35108
16-NOV-2008 17:47:39	24Omi2CMa	179	35108
16-NOV-2008 17:53:38	2BetCMa	47	35108
16-NOV-2008 17:59:07	19BetOri	7	35108
16-NOV-2008 18:04:14	34DelOri	72	35108
16-NOV-2008 18:08:23	87AlpTau	13	35108
16-NOV-2008 18:15:14	3lotAur	114	35108

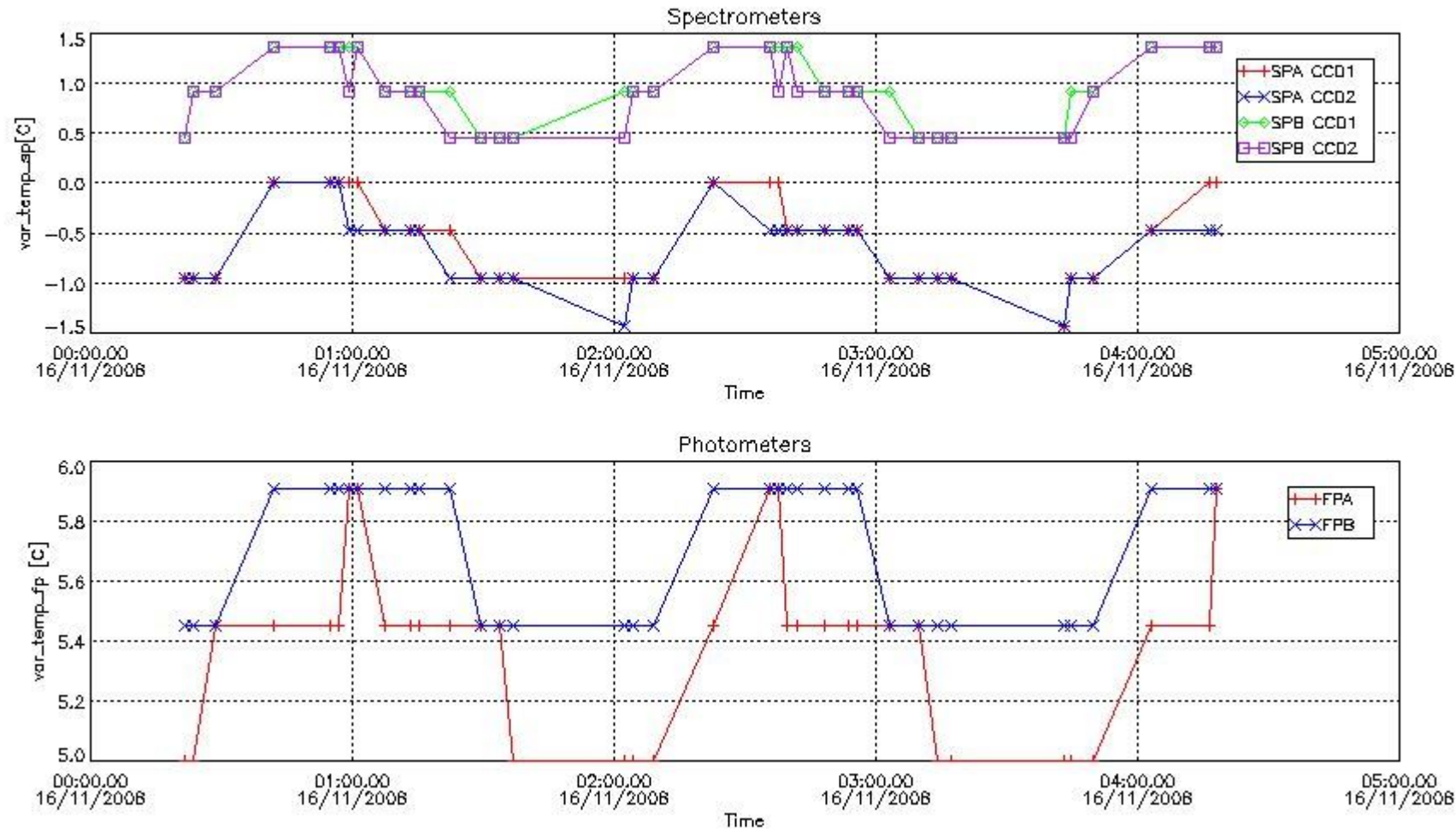
16-NOV-2008 18:19:34	13AlpAur	6	35108
16-NOV-2008 18:22:30	34BetAur	42	35108
16-NOV-2008 18:48:26	68DelLeo	96	35108
16-NOV-2008 18:50:24	17EpsLeo	166	35108
16-NOV-2008 18:55:22	32AlpLeo	22	35108
16-NOV-2008 19:09:12	30AlpHya	48	35108
16-NOV-2008 19:17:55	DSA1057	0	35109
16-NOV-2008 19:21:53	PiPup	117	35109
16-NOV-2008 19:23:47	31EtaCMa	88	35109
16-NOV-2008 19:25:57	21EpsCMa	23	35109
16-NOV-2008 19:28:16	24Omi2CMa	179	35109
16-NOV-2008 19:34:14	2BetCMa	47	35109
16-NOV-2008 19:39:43	19BetOri	7	35109
16-NOV-2008 19:44:48	34DelOri	72	35109
16-NOV-2008 19:48:58	87AlpTau	13	35109
16-NOV-2008 19:55:48	3lotAur	114	35109
16-NOV-2008 20:00:09	13AlpAur	6	35109
16-NOV-2008 20:03:04	34BetAur	42	35109
16-NOV-2008 20:29:02	68DelLeo	96	35109
16-NOV-2008 20:31:01	17EpsLeo	166	35109
16-NOV-2008 20:36:00	32AlpLeo	22	35109
16-NOV-2008 20:49:51	30AlpHya	48	35109
16-NOV-2008 20:58:33	DSA1057	0	35110
16-NOV-2008 21:02:30	PiPup	117	35110
16-NOV-2008 21:04:24	31EtaCMa	88	35110
16-NOV-2008 21:06:34	21EpsCMa	23	35110
16-NOV-2008 21:08:53	24Omi2CMa	179	35110
16-NOV-2008 21:14:51	2BetCMa	47	35110
16-NOV-2008 21:20:18	19BetOri	7	35110
16-NOV-2008 21:25:23	34DelOri	72	35110
16-NOV-2008 21:29:33	87AlpTau	13	35110
16-NOV-2008 21:36:23	3lotAur	114	35110
16-NOV-2008 21:40:44	13AlpAur	6	35110
16-NOV-2008 21:43:39	34BetAur	42	35110
16-NOV-2008 22:09:39	68DelLeo	96	35110
16-NOV-2008 22:11:38	17EpsLeo	166	35110
16-NOV-2008 22:16:37	32AlpLeo	22	35110
16-NOV-2008 22:30:31	30AlpHya	48	35110
16-NOV-2008 22:39:11	DSA1057	0	35111
16-NOV-2008 22:43:07	PiPup	117	35111
16-NOV-2008 22:45:02	31EtaCMa	88	35111
16-NOV-2008 22:47:12	21EpsCMa	23	35111
16-NOV-2008 22:49:30	24Omi2CMa	179	35111
16-NOV-2008 22:55:27	2BetCMa	47	35111
16-NOV-2008 23:00:54	19BetOri	7	35111
16-NOV-2008 23:05:58	34DelOri	72	35111
16-NOV-2008 23:10:08	87AlpTau	13	35111
16-NOV-2008 23:16:58	3lotAur	114	35111
16-NOV-2008 23:21:19	13AlpAur	6	35111
16-NOV-2008 23:24:13	34BetAur	42	35111
16-NOV-2008 23:50:15	68DelLeo	96	35111
16-NOV-2008 23:52:15	17EpsLeo	166	35111
16-NOV-2008 23:57:15	32AlpLeo	22	35111

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_1PNPDE20081116_002144_000000482073_00474_35097_6810.N1	16-NOV-2008 00:21:44	Bright	48.000	96	68Del Leo	2.5600	9300.0	96	35097	No

2	GOM_TRA_1PNPDE20081116_002334_000001042073_00474_35097_6811.N1	16-NOV-2008 00:23:34	Twilight	104.00	166	17Eps Leo	2.9800	6000.0	208	35097	No
3	GOM_TRA_1PNPDE20081116_002827_000000882073_00474_35097_6812.N1	16-NOV-2008 00:28:27	Twilight	88.000	22	32Alp Leo	1.3600	15200.	176	35097	No
4	GOM_TRA_1PNPDE20081116_004158_000001192073_00474_35097_7045.N1	16-NOV-2008 00:41:58	Dark	119.00	48	30Alp Hya	1.9770	4100.0	238	35097	No
5	GOM_TRA_1PNPDE20081116_005502_000000672073_00475_35098_7046.N1	16-NOV-2008 00:55:02	Dark	67.000	117	Pi Pup	2.7060	3800.0	134	35098	No
6	GOM_TRA_1PNPDE20081116_005653_000000812073_00475_35098_7047.N1	16-NOV-2008 00:56:53	Dark	80.500	88	31Eta CMa	2.4480	20000.	161	35098	No
7	GOM_TRA_1PNPDE20081116_005906_000000782073_00475_35098_7048.N1	16-NOV-2008 00:59:06	Dark	78.000	23	21Eps CMa	1.5020	26000.	156	35098	No
8	GOM_TRA_1PNPDE20081116_010121_000000542073_00475_35098_7049.N1	16-NOV-2008 01:01:21	Dark	53.500	108	Alp Col	2.6520	15200.	107	35098	No
9	GOM_TRA_1PNPDE20081116_010733_000000622073_00475_35098_7050.N1	16-NOV-2008 01:07:33	Straylight	62.000	47	2Bet CMa	1.9760	28000.	124	35098	No
10	GOM_TRA_1PNPDE20081116_011308_000000792073_00475_35098_7051.N1	16-NOV-2008 01:13:08	Twilight	79.000	7	19Bet Ori	0.10000	14000.	158	35098	No
11	GOM_TRA_1PNPDE20081116_011507_000000922073_00475_35098_7052.N1	16-NOV-2008 01:15:07	Twilight	91.500	125	44Iot Ori	2.7700	30000.	183	35098	No
12	GOM_TRA_1PNPDE20081116_012230_000000632073_00475_35098_7053.N1	16-NOV-2008 01:22:30	Bright	62.500	13	87Alp Tau	0.86700	3800.0	125	35098	No
13	GOM_TRA_1PNPDE20081116_012923_000000572073_00475_35098_7054.N1	16-NOV-2008 01:29:23	Bright	57.000	114	3Iot Aur	2.6930	4600.0	114	35098	No
14	GOM_TRA_1PNPDE20081116_013342_000000552073_00475_35098_7055.N1	16-NOV-2008 01:33:42	Bright	54.500	6	13Alp Aur	0.080000	3400.0	109	35098	No
15	GOM_TRA_1PNPDE20081116_013641_000000632073_00475_35098_7056.N1	16-NOV-2008 01:36:41	Bright	63.000	42	34Bet Aur	1.9000	10200.	126	35098	No
16	GOM_TRA_1PNPDE20081116_020220_000000482073_00475_35098_7057.N1	16-NOV-2008 02:02:20	Bright	48.000	96	68Del Leo	2.5600	9300.0	96	35098	No
17	GOM_TRA_1PNPDE20081116_020411_000001062073_00475_35098_7058.N1	16-NOV-2008 02:04:11	Twilight	106.00	166	17Eps Leo	2.9800	6000.0	212	35098	No
18	GOM_TRA_1PNPDE20081116_020905_000000842073_00475_35098_7193.N1	16-NOV-2008 02:09:05	Twilight	84.000	22	32Alp Leo	1.3600	15200.	168	35098	No
19	GOM_TRA_1PNPDE20081116_022237_000001172073_00475_35098_7194.N1	16-NOV-2008 02:22:37	Dark	117.00	48	30Alp Hya	1.9770	4100.0	234	35098	No
20	GOM_TRA_1PNPDE20081116_023539_000000692073_00476_35099_7195.N1	16-NOV-2008 02:35:39	Dark	69.000	117	Pi Pup	2.7060	3800.0	138	35099	No
21	GOM_TRA_1PNPDE20081116_023730_000000812073_00476_35099_7196.N1	16-NOV-2008 02:37:30	Dark	81.000	88	31Eta CMa	2.4480	20000.	162	35099	No
22	GOM_TRA_1PNPDE20081116_023943_000000762073_00476_35099_7197.N1	16-NOV-2008 02:39:43	Dark	76.000	23	21Eps CMa	1.5020	26000.	152	35099	No
23	GOM_TRA_1PNPDE20081116_024158_000000532073_00476_35099_7198.N1	16-NOV-2008 02:41:58	Dark	53.000	108	Alp Col	2.6520	15200.	106	35099	No
24	GOM_TRA_1PNPDE20081116_024809_000000622073_00476_35099_7212.N1	16-NOV-2008 02:48:09	Straylight	62.000	47	2Bet CMa	1.9760	28000.	124	35099	No
25	GOM_TRA_1PNPDE20081116_025344_000000812073_00476_35099_7213.N1	16-NOV-2008 02:53:44	Twilight	81.000	7	19Bet Ori	0.10000	14000.	162	35099	No
26	GOM_TRA_1PNPDE20081116_025543_000000922073_00476_35099_7201.N1	16-NOV-2008 02:55:43	Twilight	92.000	125	44Iot Ori	2.7700	30000.	184	35099	No
27	GOM_TRA_1PNPDE20081116_030305_000000612073_00476_35099_7202.N1	16-NOV-2008 03:03:05	Bright	60.500	13	87Alp Tau	0.86700	3800.0	121	35099	No
28	GOM_TRA_1PNPDE20081116_030958_000000592073_00476_35099_7203.N1	16-NOV-2008 03:09:58	Bright	59.000	114	3Iot Aur	2.6930	4600.0	118	35099	No
29	GOM_TRA_1PNPDE20081116_031417_000000562073_00476_35099_7217.N1	16-NOV-2008 03:14:17	Bright	56.000	6	13Alp Aur	0.080000	3400.0	112	35099	No
30	GOM_TRA_1PNPDE20081116_031716_000000622073_00476_35099_7205.N1	16-NOV-2008 03:17:16	Bright	62.000	42	34Bet Aur	1.9000	10200.	124	35099	No
31	GOM_TRA_1PNPDE20081116_034256_000000502073_00476_35099_7336.N1	16-NOV-2008 03:42:56	Bright	49.500	96	68Del Leo	2.5600	9300.0	99	35099	No
32	GOM_TRA_1PNPDE20081116_034448_000001032073_00476_35099_7337.N1	16-NOV-2008 03:44:48	Twilight	102.50	166	17Eps Leo	2.9800	6000.0	205	35099	No
33	GOM_TRA_1PNPDE20081116_034942_000000902073_00476_35099_7338.N1	16-NOV-2008 03:49:42	Twilight	89.500	22	32Alp Leo	1.3600	15200.	179	35099	No
34	GOM_TRA_1PNPDE20081116_040316_000001242073_00476_35099_7339.N1	16-NOV-2008 04:03:16	Dark	123.50	48	30Alp Hya	1.9770	4100.0	247	35099	No
35	GOM_TRA_1PNPDE20081116_041617_000000662073_00477_35100_7340.N1	16-NOV-2008 04:16:17	Dark	65.500	117	Pi Pup	2.7060	3800.0	131	35100	No
36	GOM_TRA_1PNPDE20081116_041807_000000772073_00477_35100_7341.N1	16-NOV-2008 04:18:07	Dark	77.000	88	31Eta CMa	2.4480	20000.	154	35100	No

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



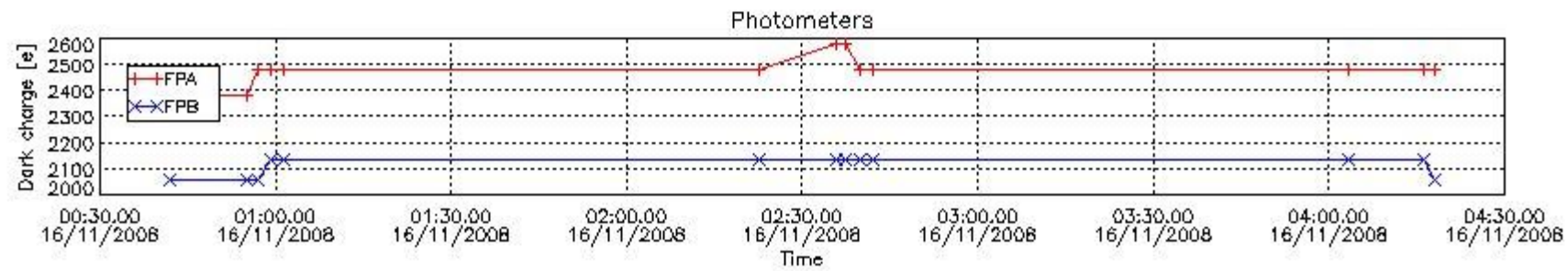
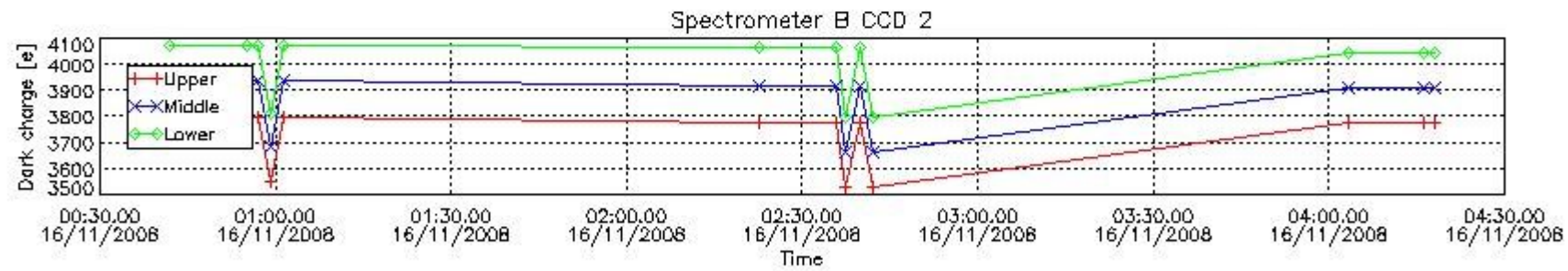
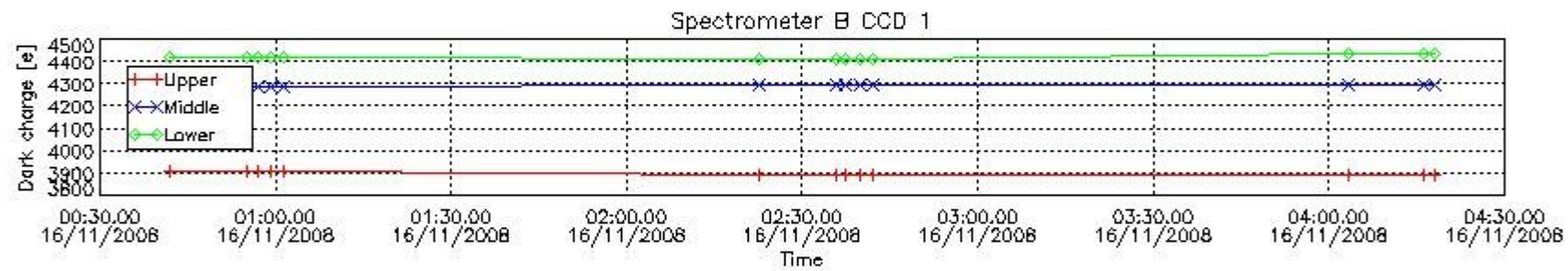
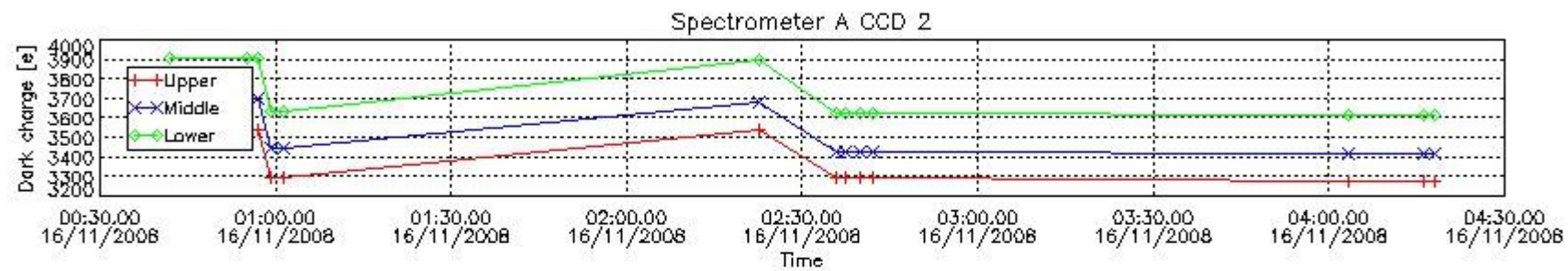
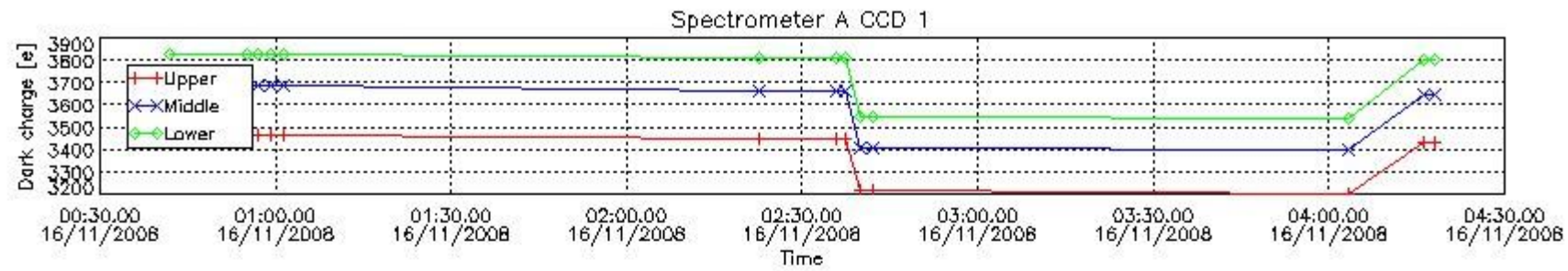
4. Overview of dark signal processing per product

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



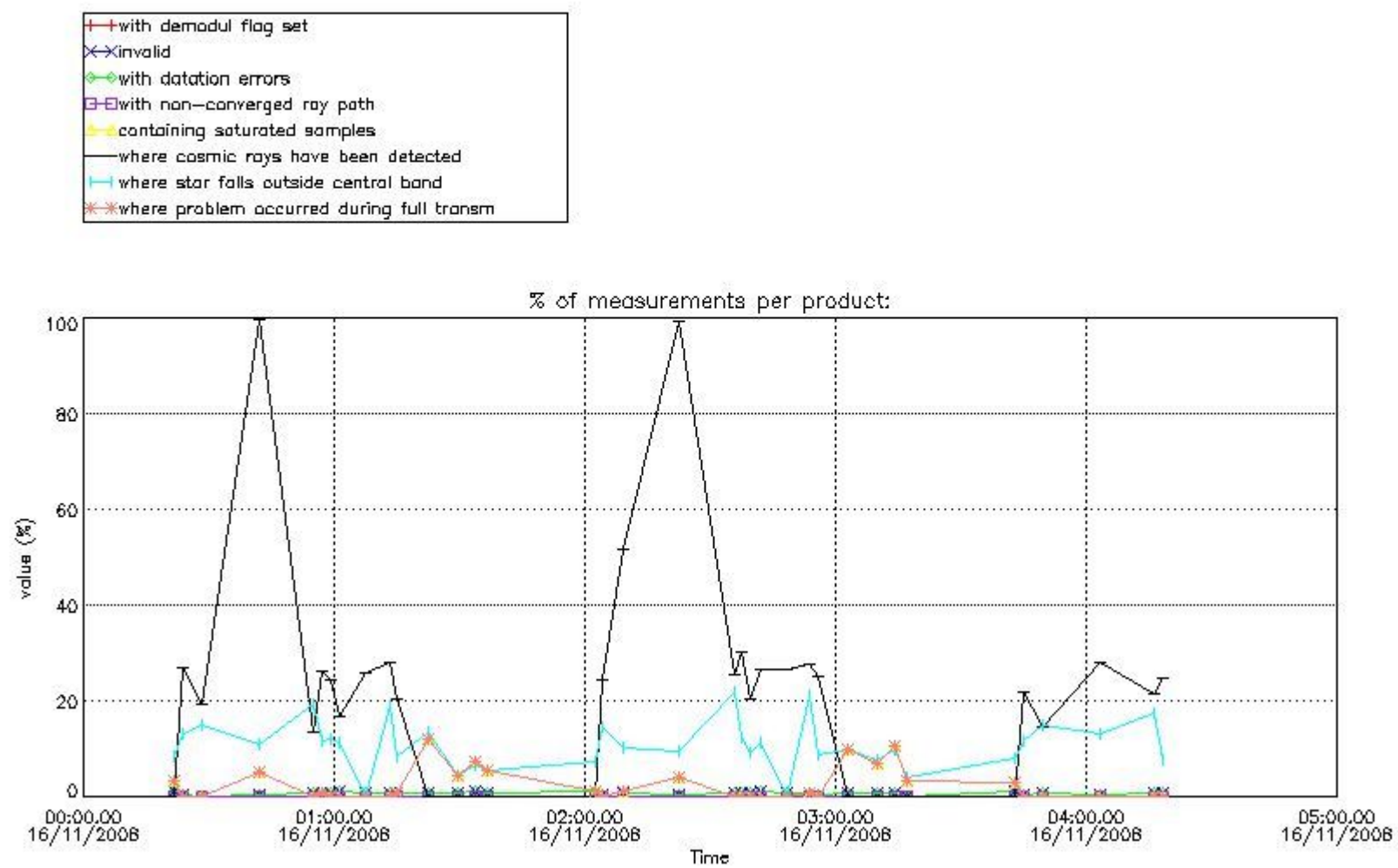
5. Demodulation flag and quality information monitoring

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.

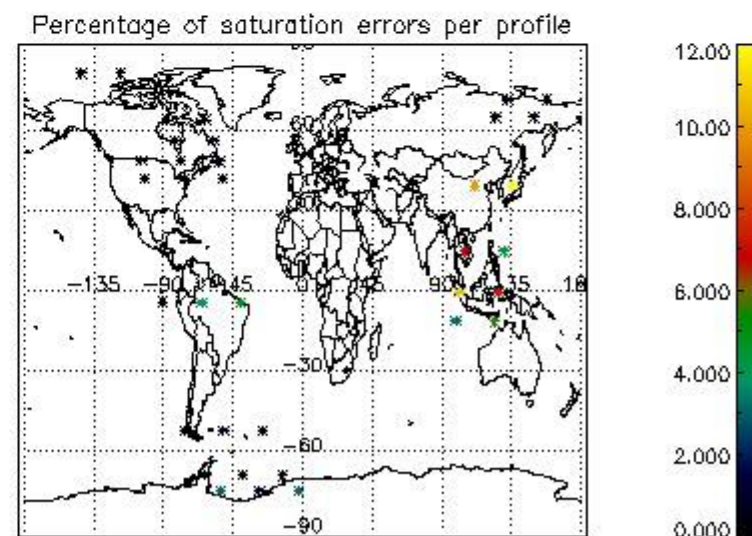
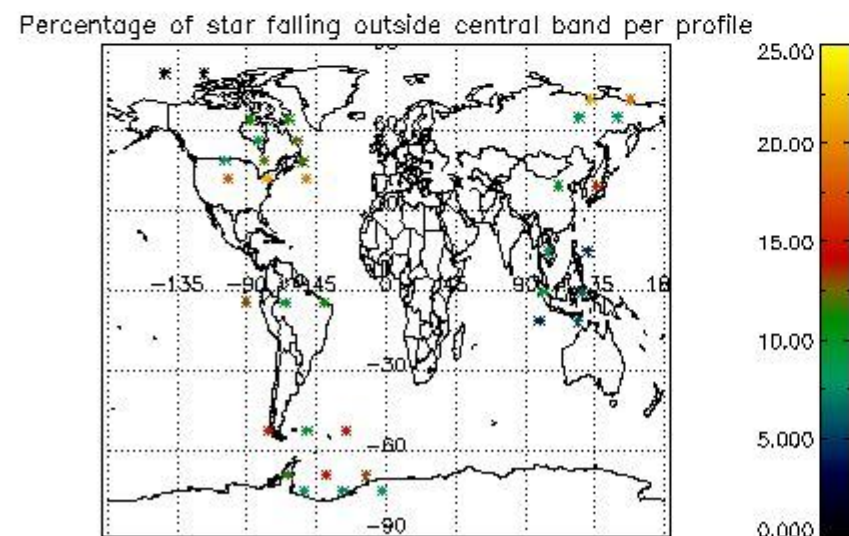
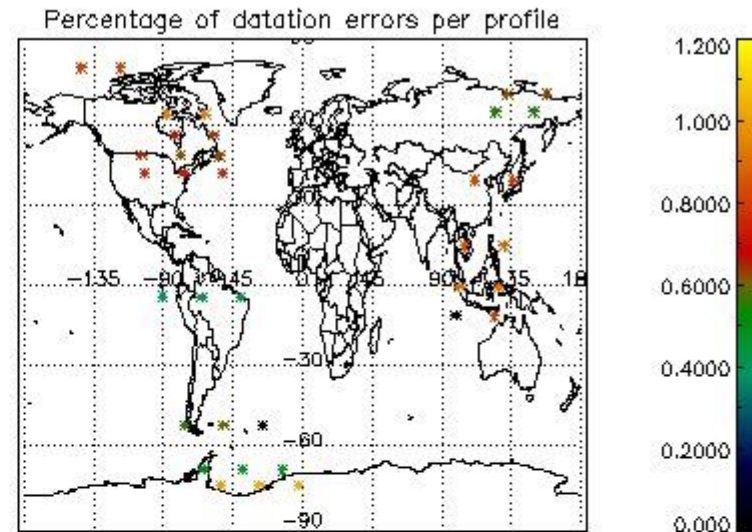
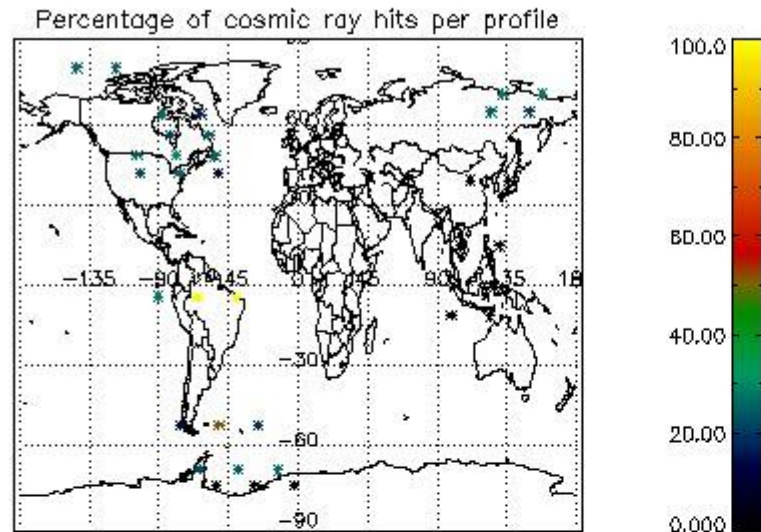
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	41.6667 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



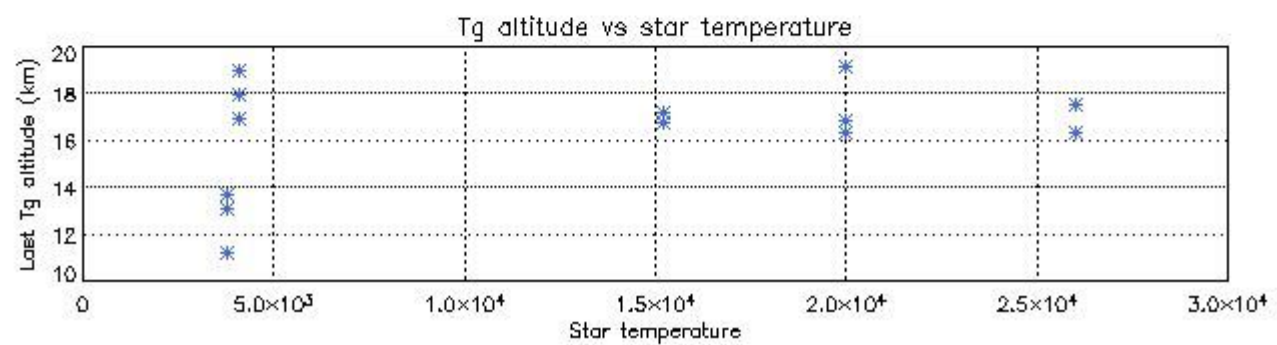
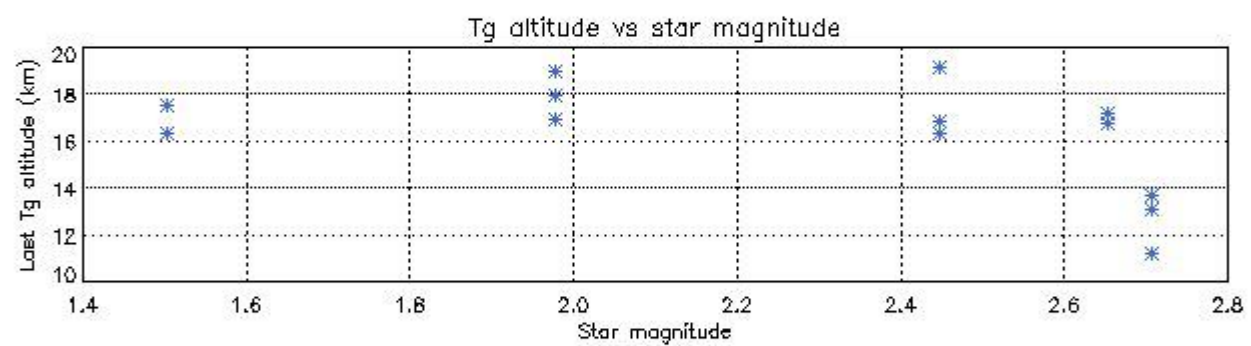
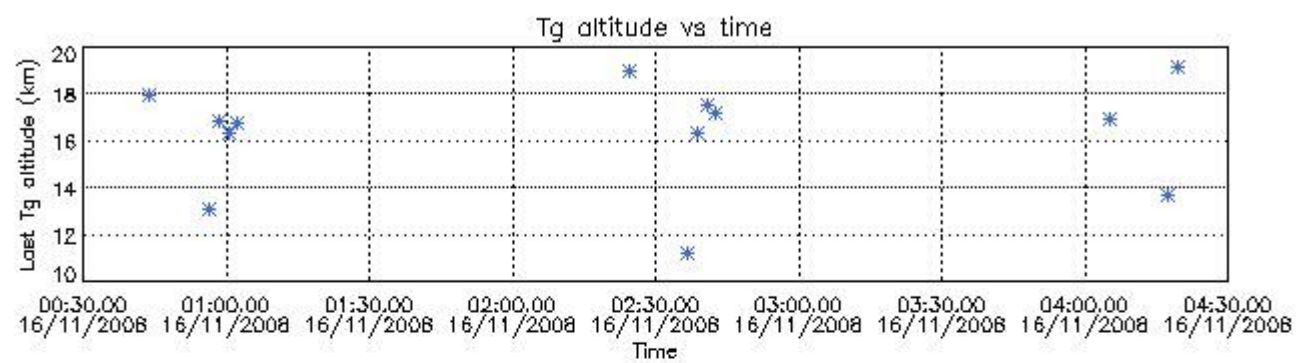
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.307	19.487	NaN
St. deviation:	2.3162	2.4016	NaN
Maximum:	19.133	22.619	NaN
Minimum:	11.212	14.783	NaN
Number of data:	13.000	11.000	NaN

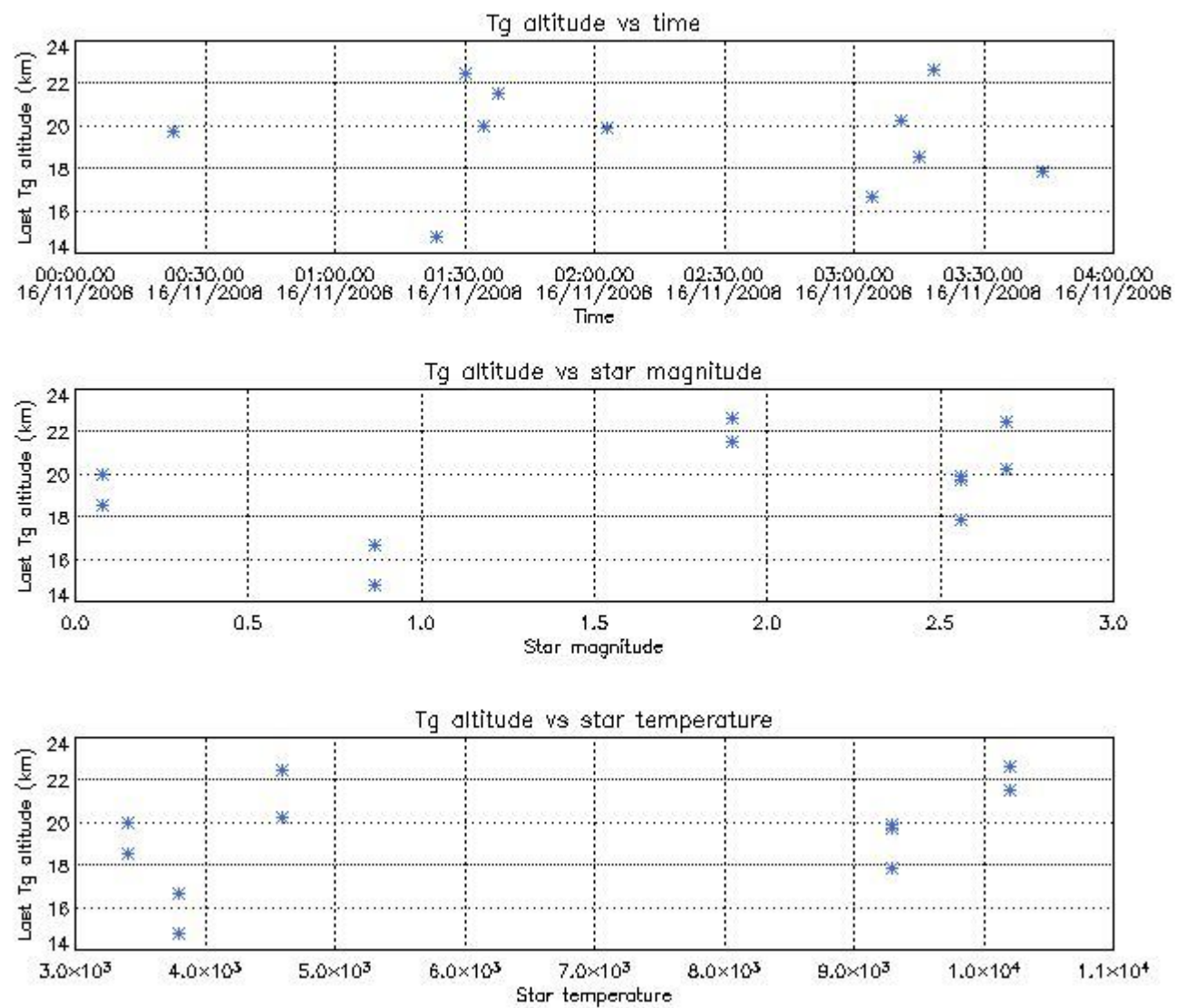
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

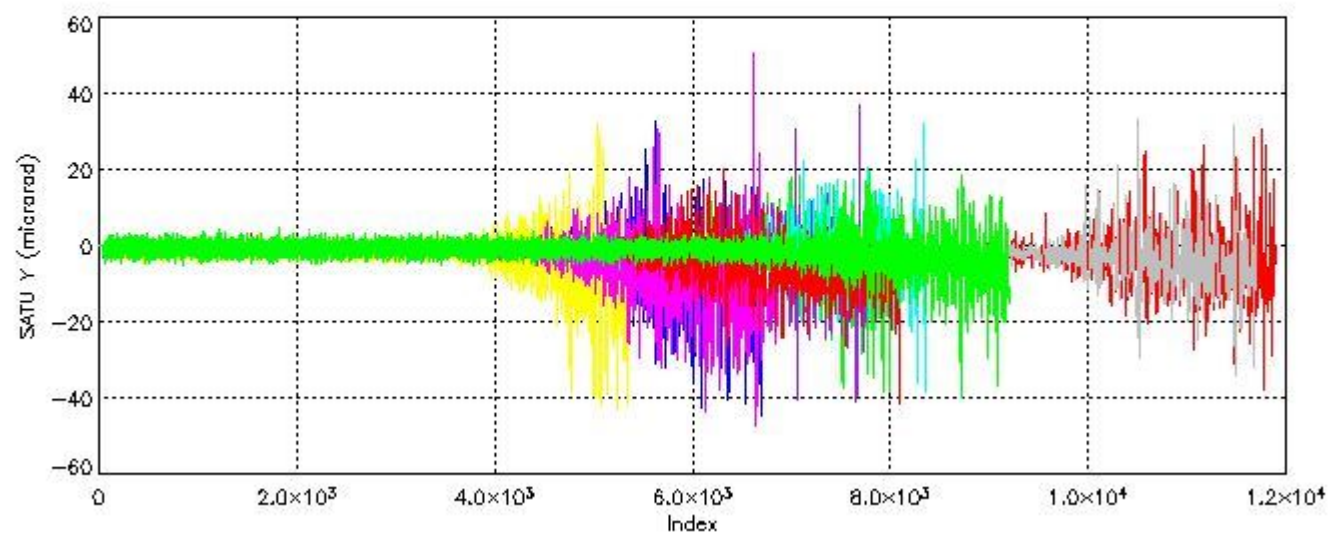
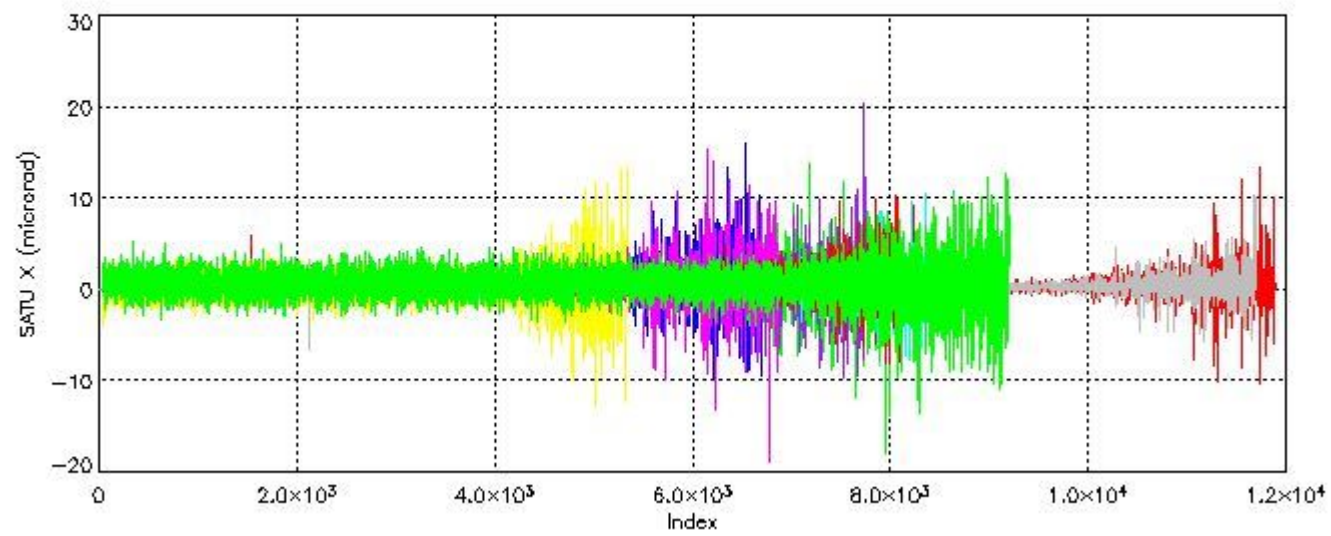


7. Star Acquisition and Tracking Unit (SATU)

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:	0.47879	-0.92678	0.31991	-1.0131
St. deviation:	0.55890	0.71951	0.54932	0.67794
Maximum:	5.9000	4.2000	3.4000	2.5000
Minimum:	-6.7000	-5.1000	-3.0000	-5.0000

Number of data:	23650.	23650.	14850.	14850.
-----------------	--------	--------	--------	--------

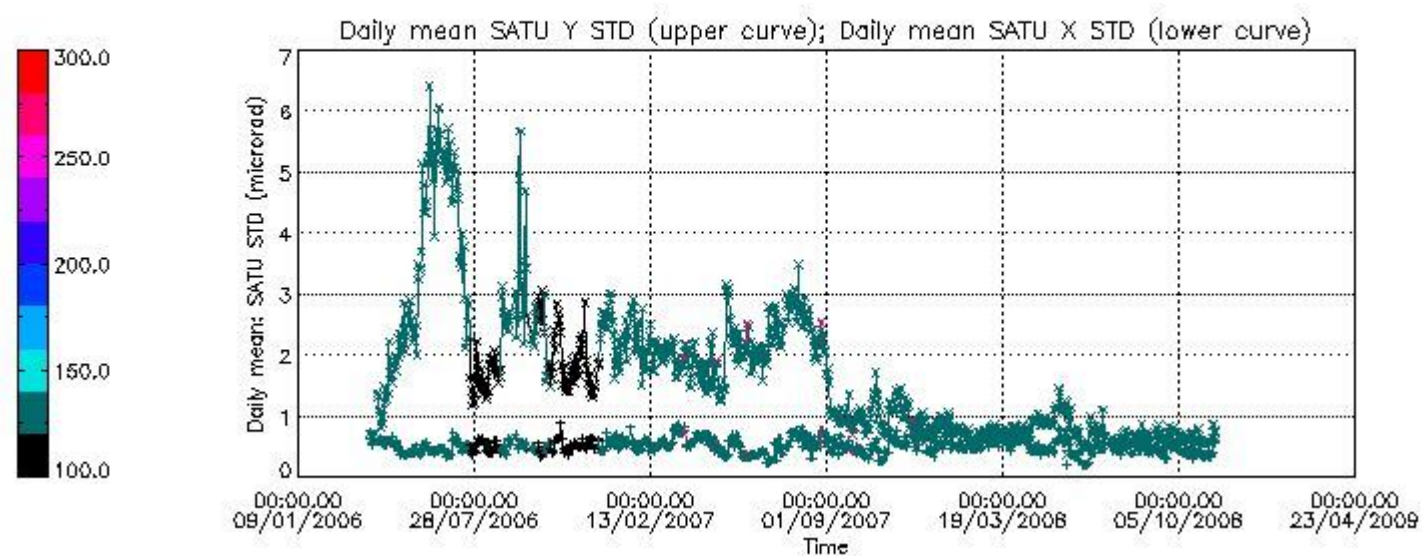
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

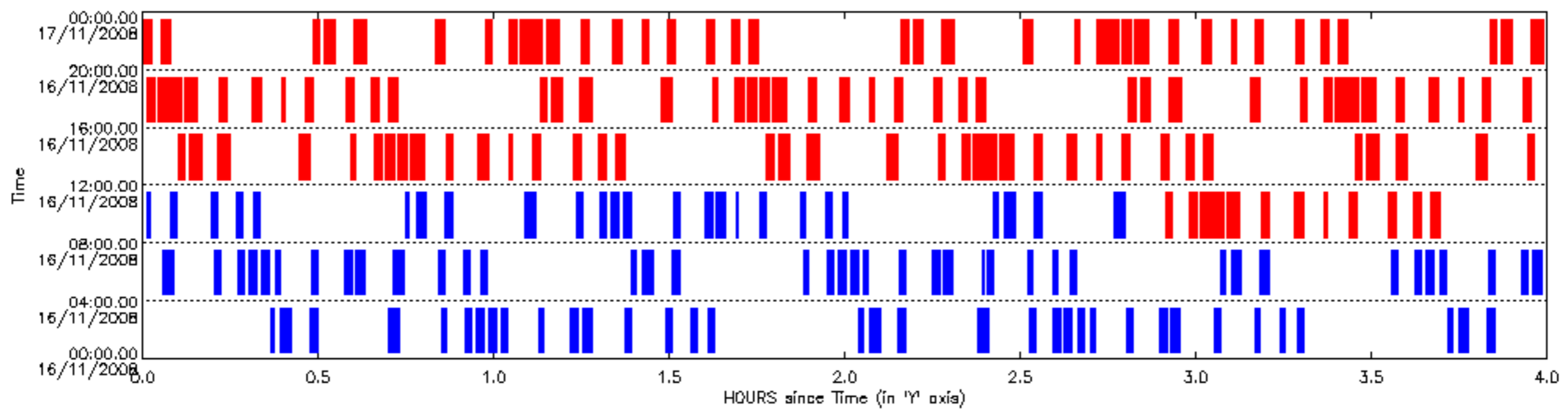
Lower curve: STD of SATU X axis

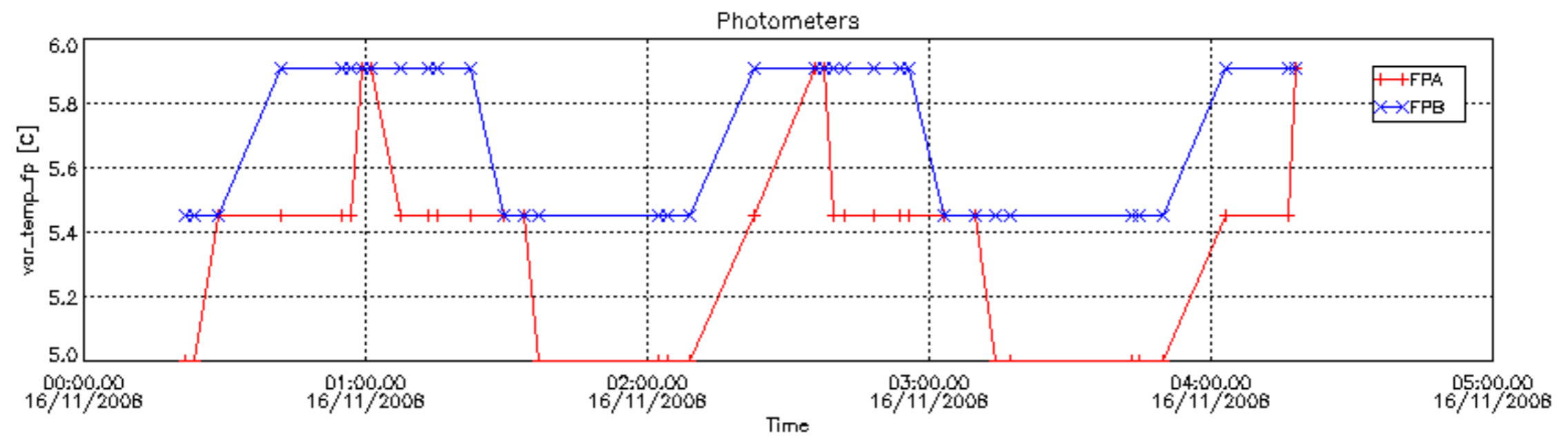
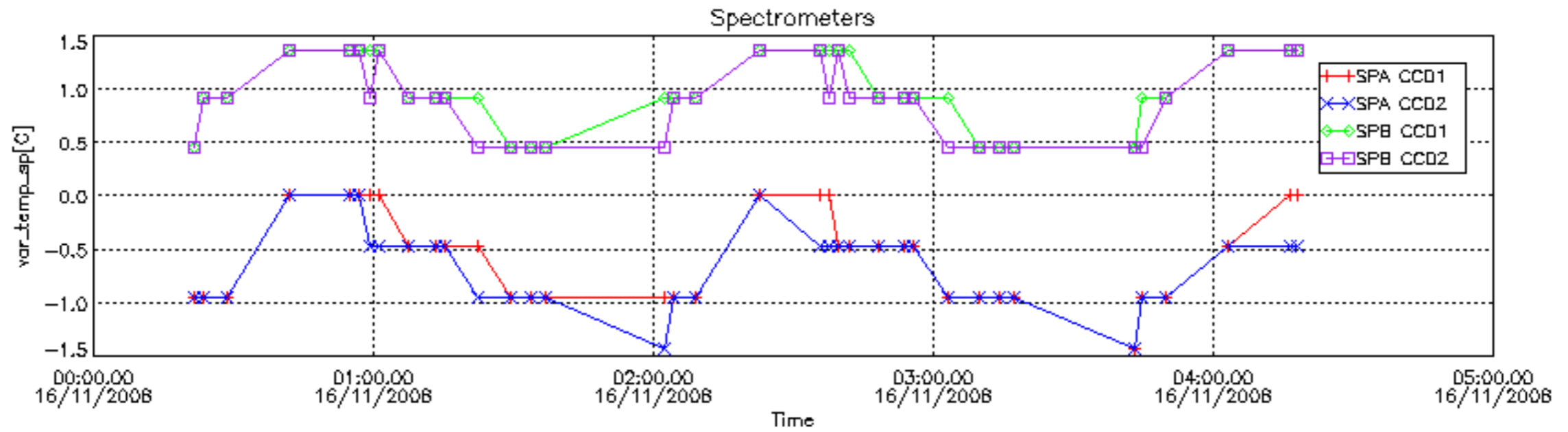


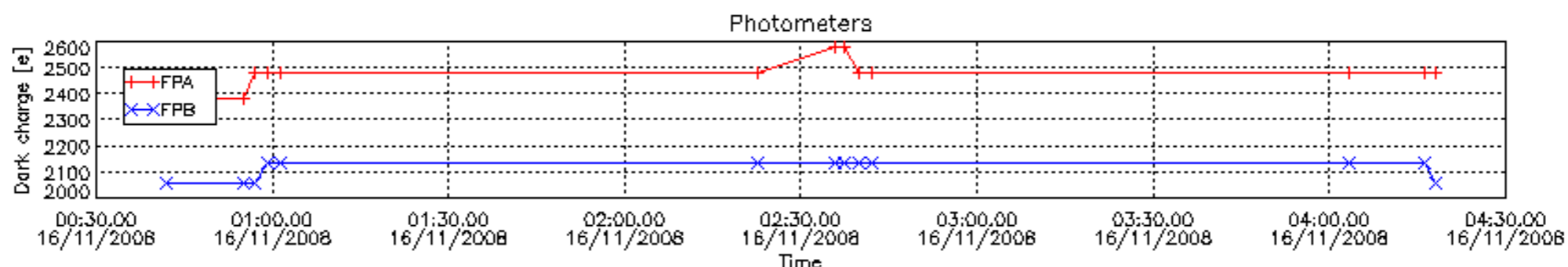
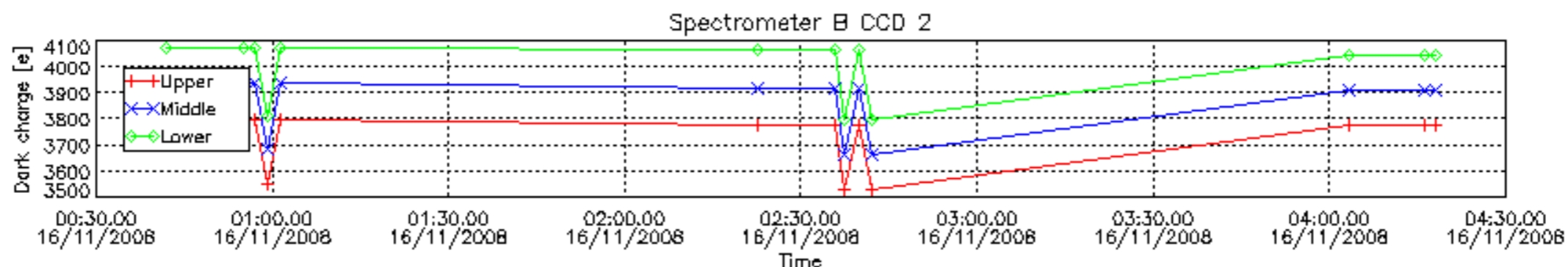
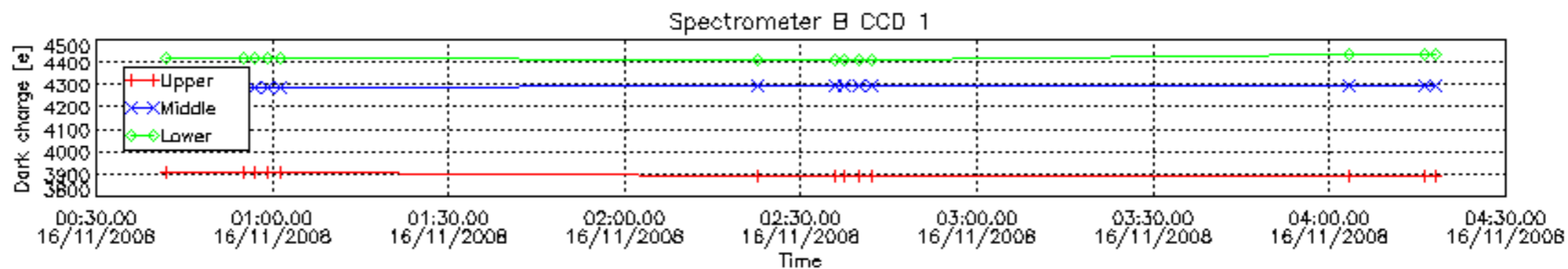
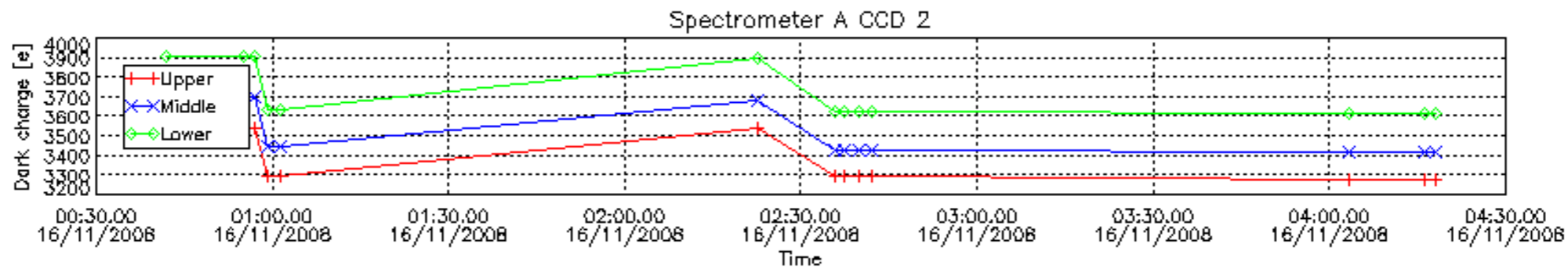
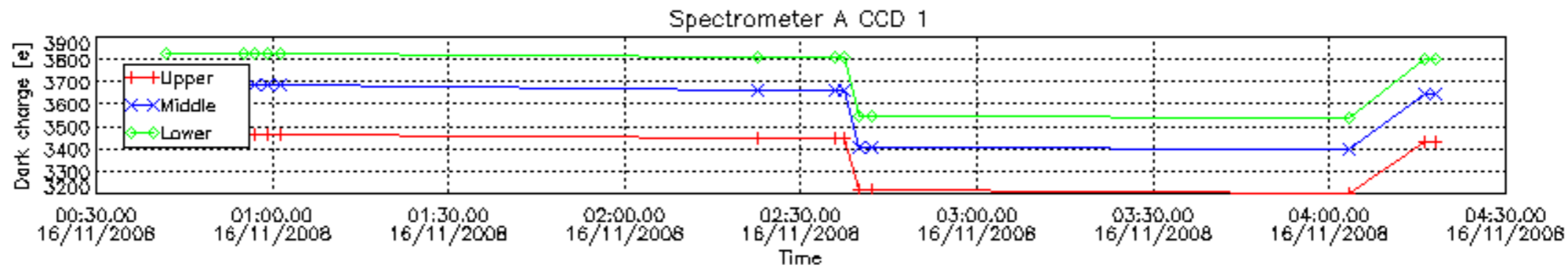
8. Auxiliary Data Files used for the production reported in section 2.4

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.

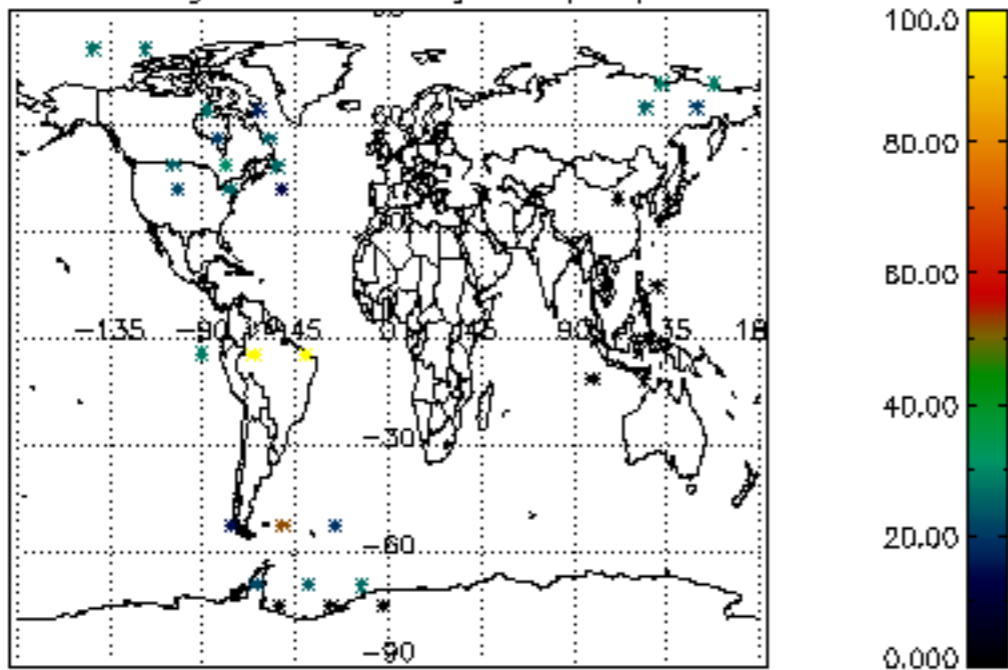
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	16-NOV-2008 00:21:44
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20081107_163108_20081101_000000_20100101_000000	1	16-NOV-2008 00:21:44
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	16-NOV-2008 00:21:44
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	16-NOV-2008 00:21:44
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	16-NOV-2008 00:21:44
ECMWF_FILE	AUX_ECF_AXNECM20081115_072112_20081115_210000_20081116_090000	1	16-NOV-2008 00:21:44
ECMWF_FILE	AUX_ECF_AXNECM20081115_192110_20081116_030000_20081116_150000	31	16-NOV-2008 03:42:56
OPTIONAL_ECMWF_FILE	MISSING	1	16-NOV-2008 00:21:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20081115_225059_000054192073_00473_35096_6776.N1	1	16-NOV-2008 00:21:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20081116_002637_000057382073_00474_35097_6777.N1	4	16-NOV-2008 00:41:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20081116_020734_000044632073_00475_35098_6778.N1	18	16-NOV-2008 02:09:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20081116_032716_000054192073_00476_35099_6779.N1	31	16-NOV-2008 03:42:56



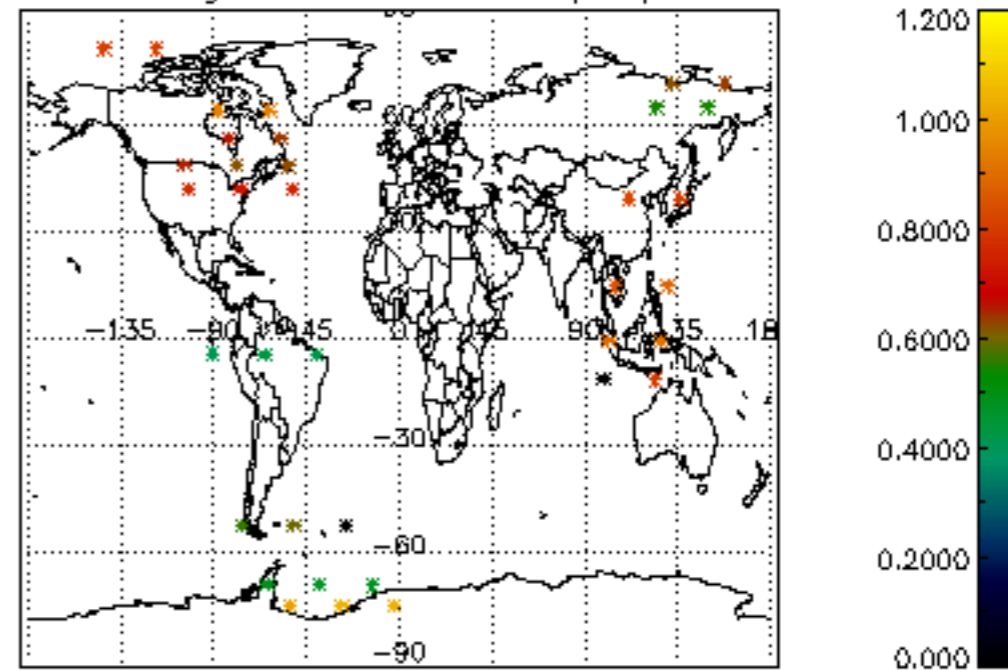




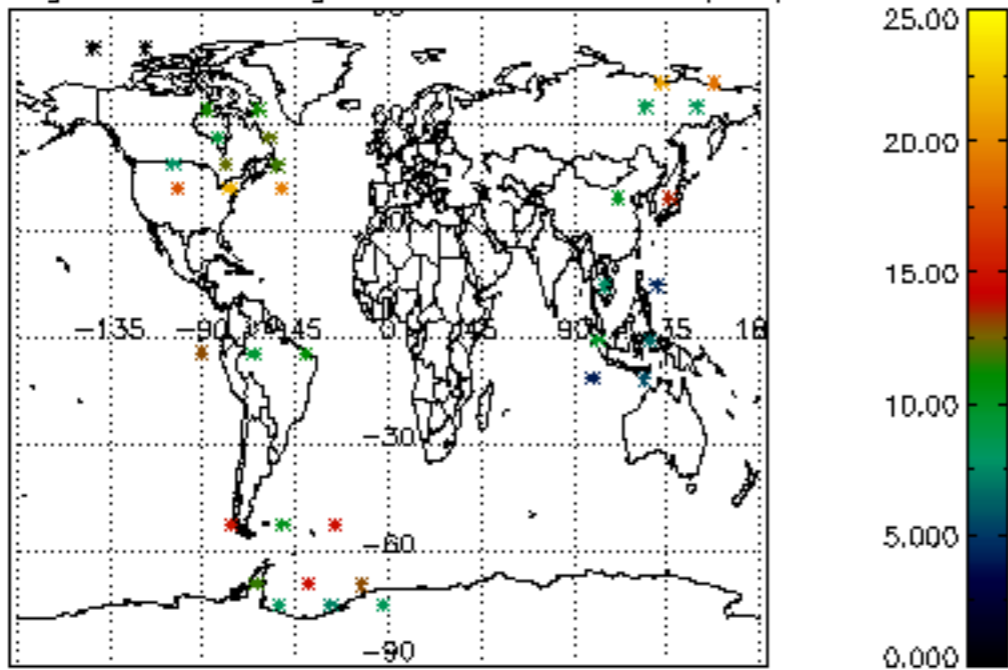
Percentage of cosmic ray hits per profile



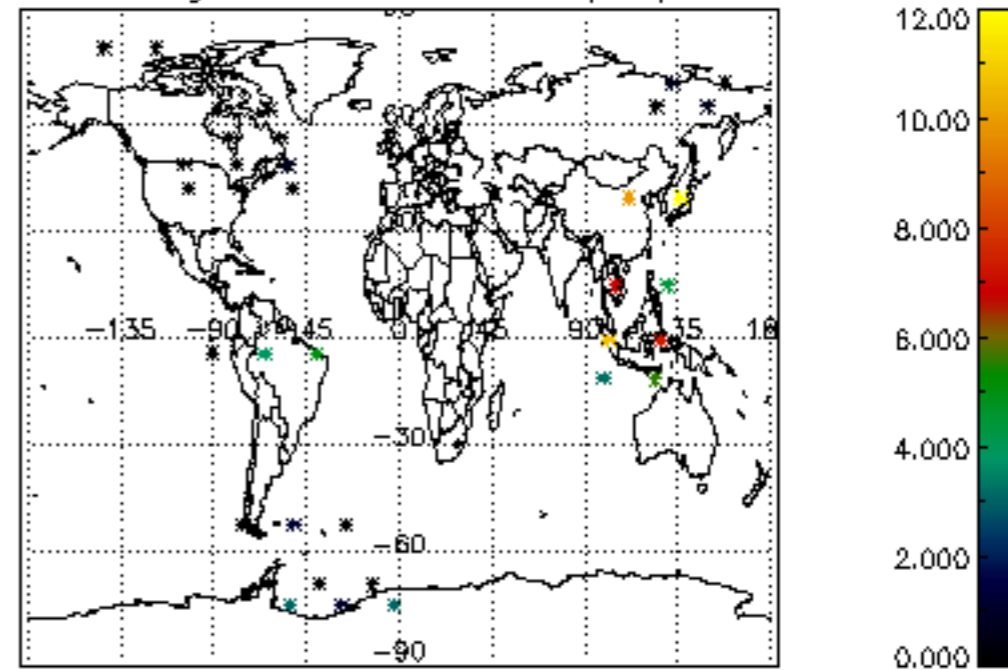
Percentage of datation errors per profile



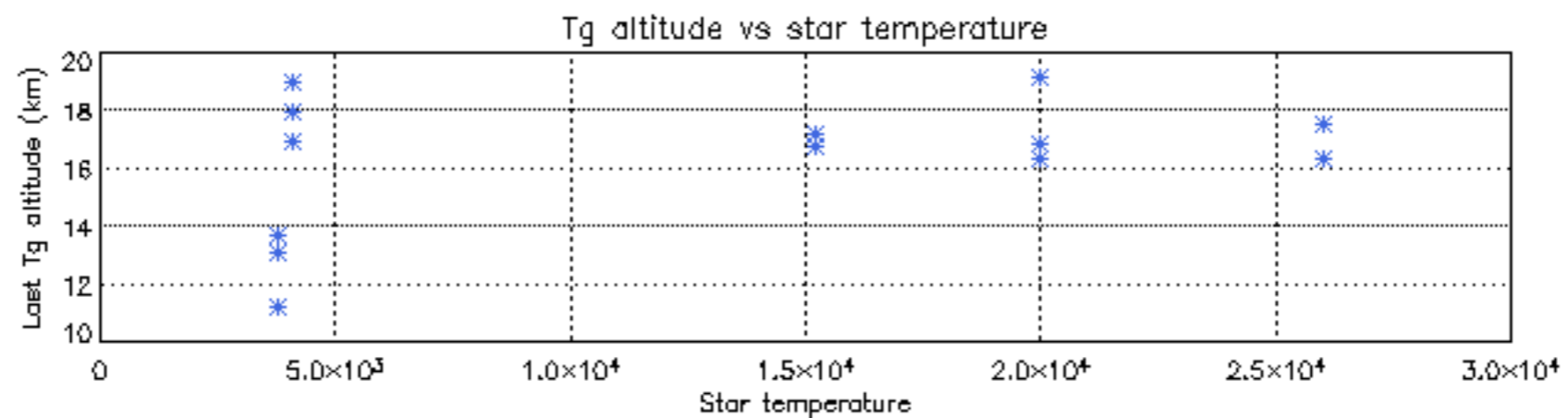
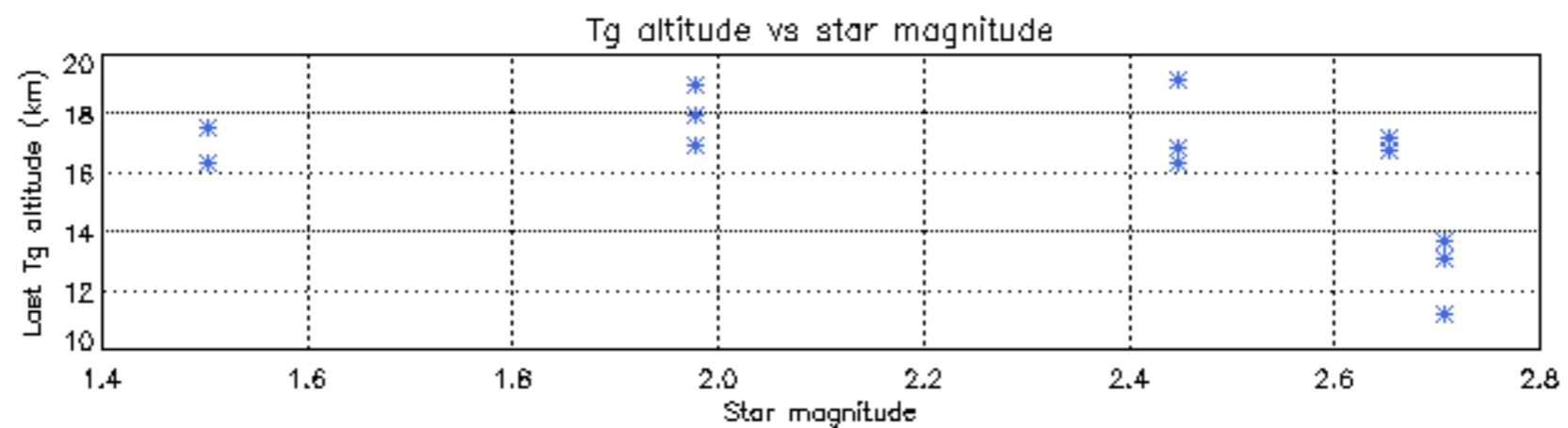
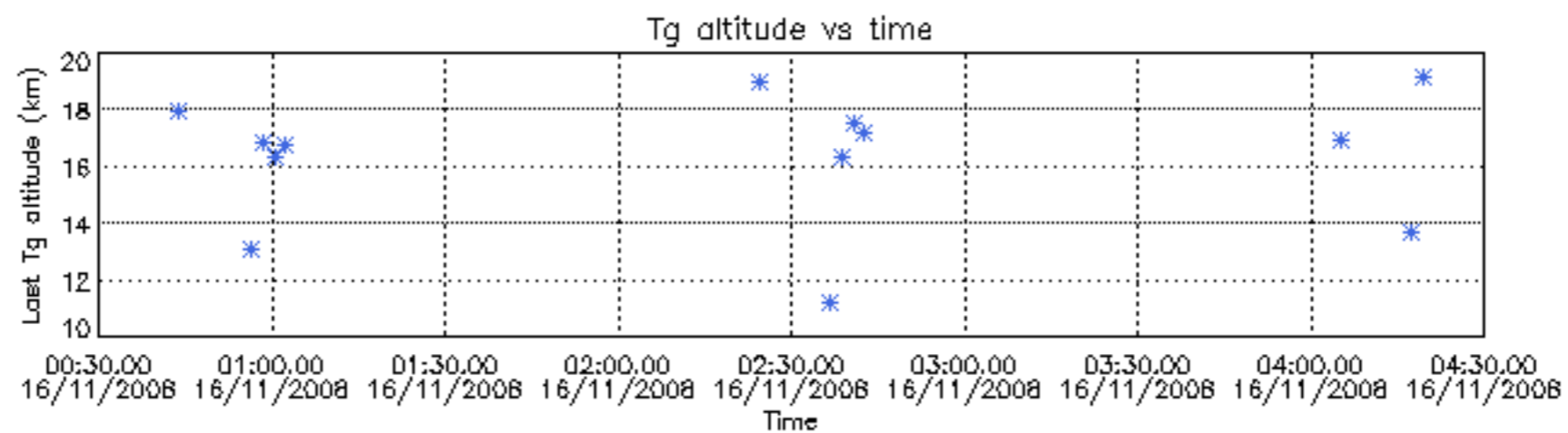
Percentage of star falling outside central band per profile



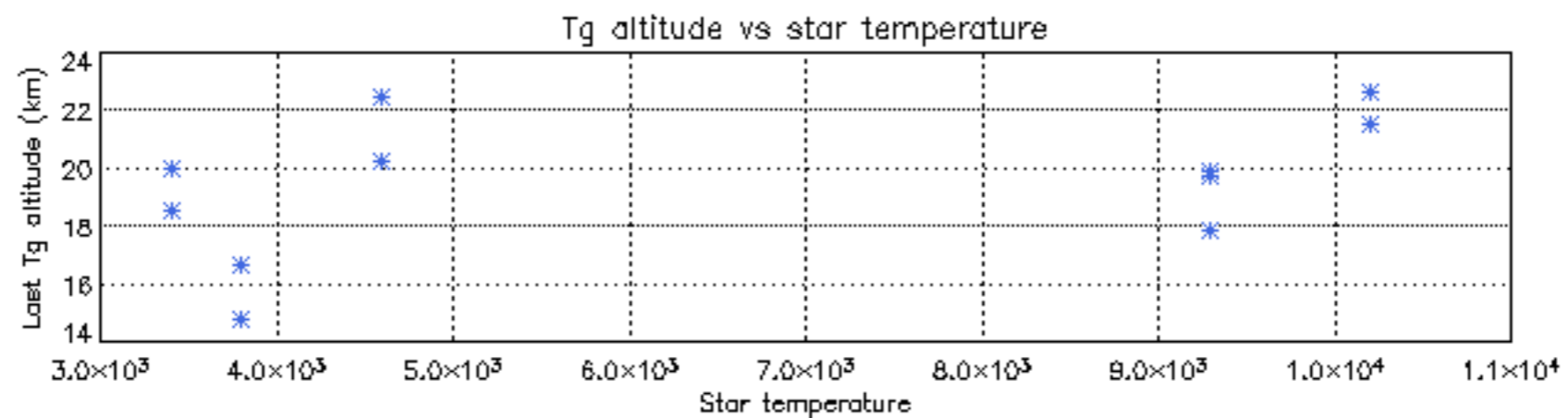
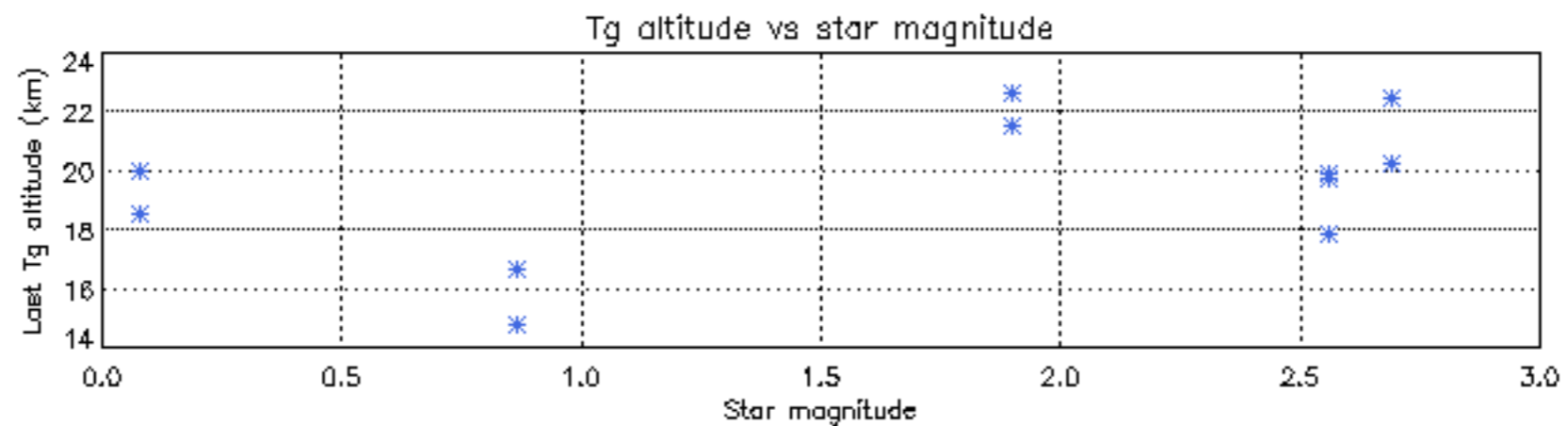
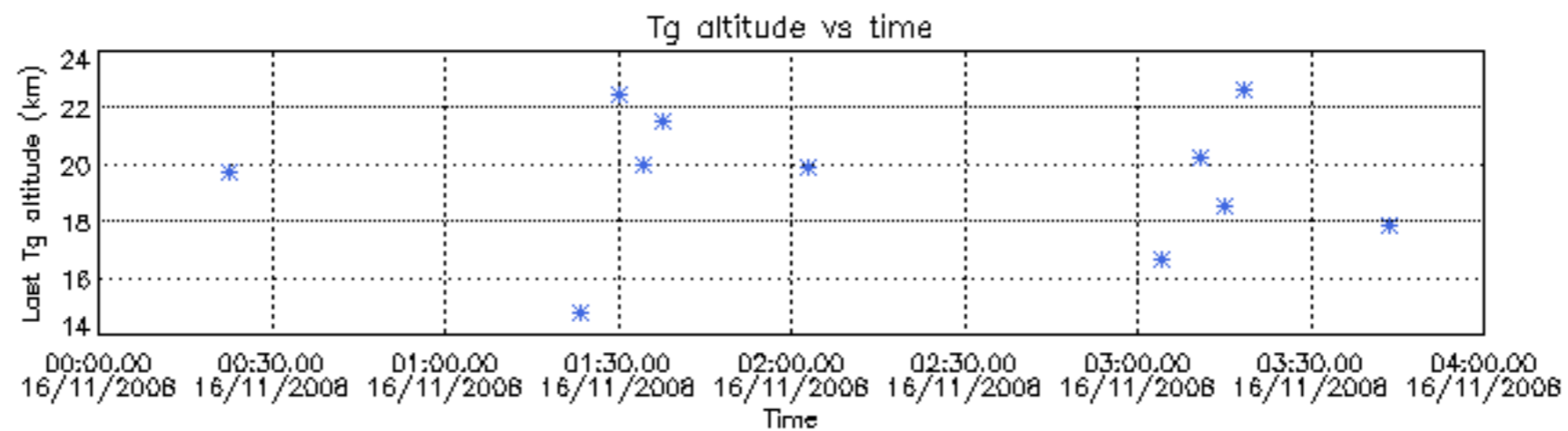
Percentage of saturation errors per profile

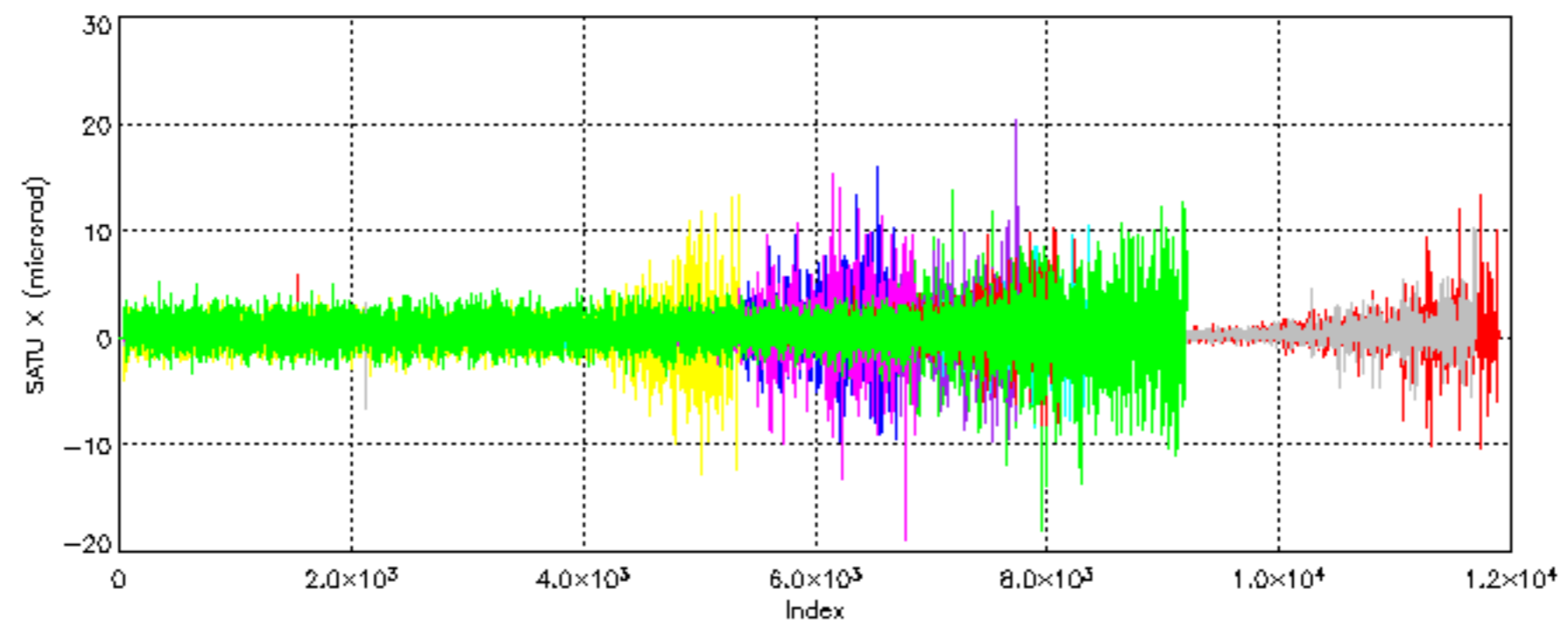


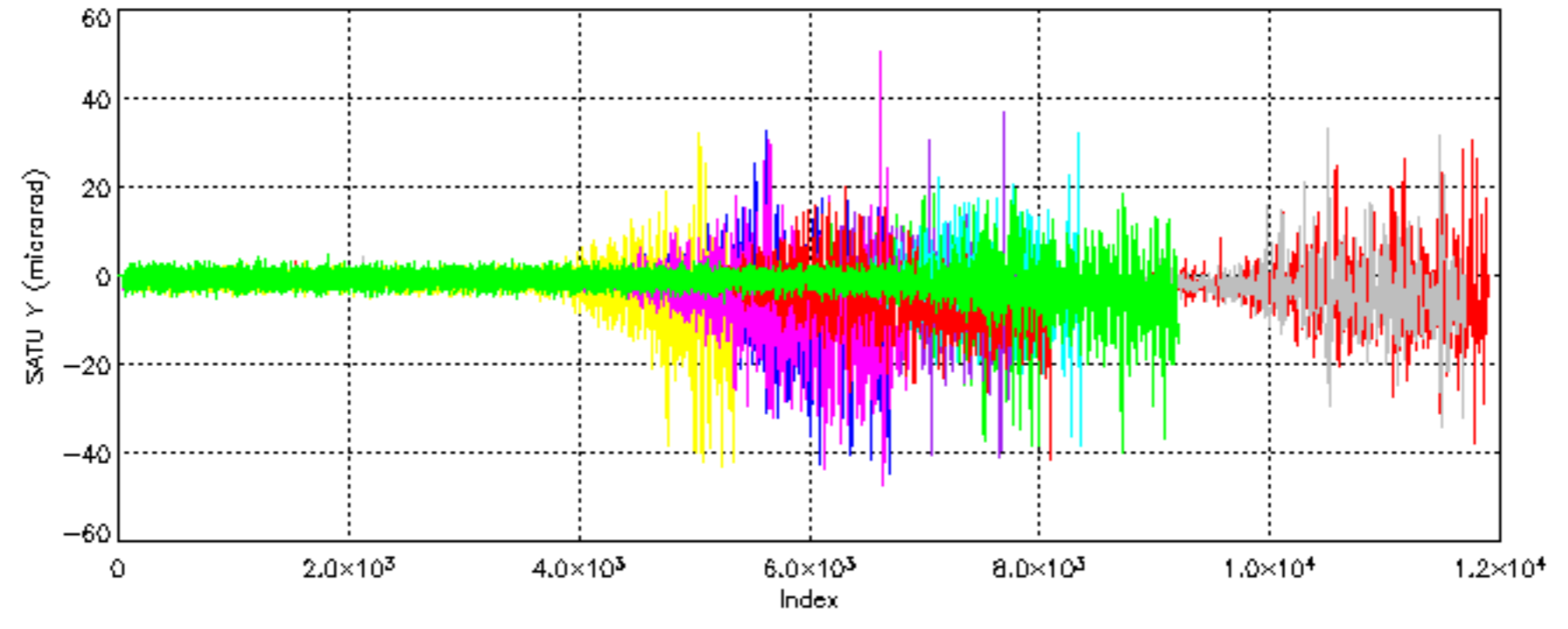
Tangent altitude at which the star is lost

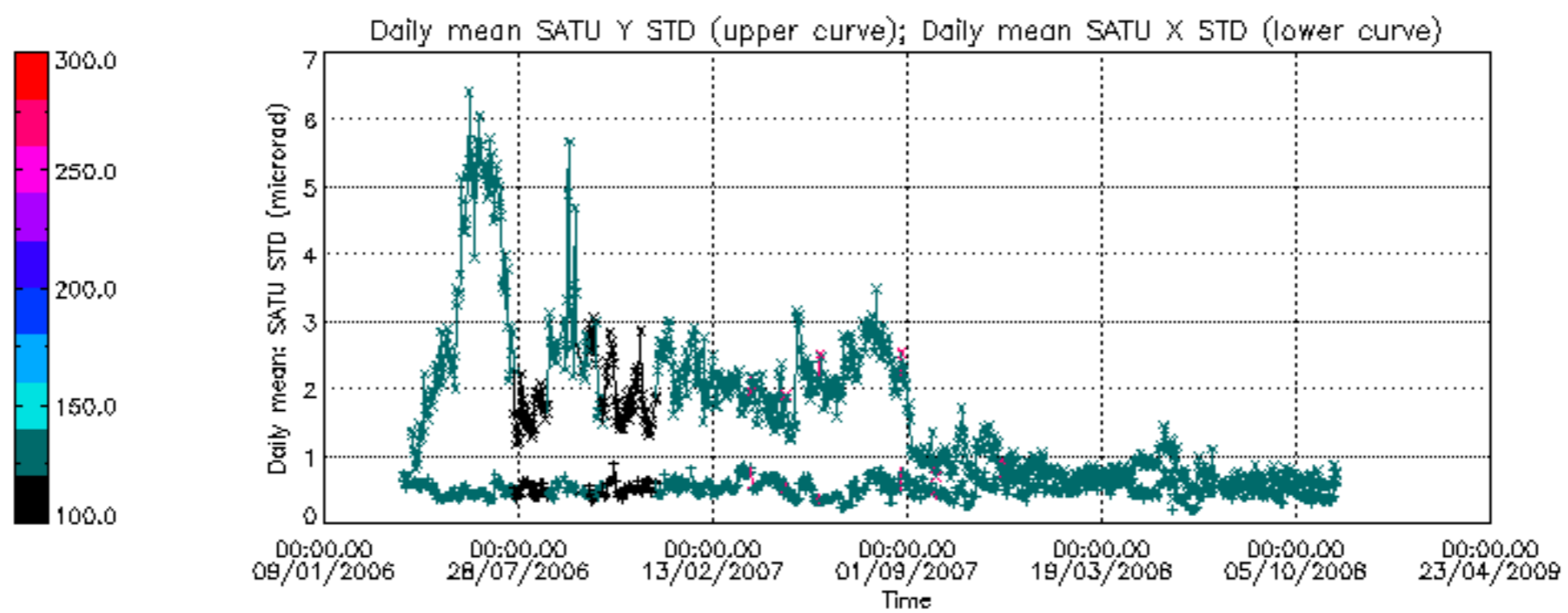


Tangent altitude at which the star is lost









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 6; 1878.7; 01-NOV-2008 05:47:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34886
 7; 2264.3; 01-NOV-2008 05:54:06; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34886
 8; 2577.0; 01-NOV-2008 05:59:18; Bright; 58.5; 0; ; 0.00; 0;occ; 117; 0;34886
 9; 3111.1; 01-NOV-2008 06:08:13; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34886
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 4; 2656.8; 01-NOV-2008 21:06:02; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;34895
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 6; 2938.5; 01-NOV-2008 21:10:43; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;34895
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 9; 4007.6; 01-NOV-2008 21:28:33; Bright; 49.5; 82; 48Bet UMa ; 2.37; 10600;occ; 99; 0;34895
 10; 4229.7; 01-NOV-2008 21:32:15; Bright; 57.0; 174; 52Psi UMa ; 3.00; 4400;occ; 114; 0;34895
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 2; 65.0; 01-NOV-2008 22:03:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34896
 3; 147.1; 01-NOV-2008 22:04:48; Dark ; 44.0; 46; Del Vel ; 1.95; 10600;occ; 88; 0;34896
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 12; 3423.5; 01-NOV-2008 22:59:24; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;34896
 13; 3910.6; 01-NOV-2008 23:07:31; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;34896
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2; -2132.0; 06-NOV-2008 03:43:20; Bright; 40.0; 36; 50Alp UMa ; 1.80; 6300;occ; 80; 0;34956
3; -2034.7; 06-NOV-2008 03:44:57; Bright; 39.0; 82; 48Bet UMa ; 2.37; 10600;occ; 78; 0;34956
4; -1806.4; 06-NOV-2008 03:48:45; Bright; 59.0; 174; 52Psi UMa ; 3.00; 4400;occ; 118; 0;34956
5; -1341.5; 06-NOV-2008 03:56:30; Bright; 60.0; 96; 68Del Leo ; 2.56; 9300;occ; 120; 0;34956
6; -136.7; 06-NOV-2008 04:16:35; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;34956
7; 112.1; 06-NOV-2008 04:20:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34957
8; 236.0; 06-NOV-2008 04:22:48; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;34957

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10; 1166.0; 06-NOV-2008 04:38:18; Dark ; 40.0; 157; The1Eri ; 2.91; 9300;occ; 80; 0;34957
11; 2264.7; 06-NOV-2008 04:56:36; Bright; 38.5; 105; 6Bet Ari ; 2.64; 8900;occ; 77; 0;34957
12; 2515.0; 06-NOV-2008 05:00:47; Bright; 37.0; 53; 43Bet And ; 2.05; 3300;occ; 74; 0;34957
13; 2643.0; 06-NOV-2008 05:02:55; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;34957
14; 2871.6; 06-NOV-2008 05:06:43; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;34957
15; 3423.4; 06-NOV-2008 05:15:55; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;34957
16; 3666.5; 06-NOV-2008 05:19:58; Bright; 30.5; 60; 7Bet UMi ; 2.08; 3950;occ; 61; 0;34957
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2; -2132.3; 06-NOV-2008 05:23:55; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;34957
3; -2034.8; 06-NOV-2008 05:25:33; Bright; 39.0; 82; 48Bet UMa ; 2.37; 10600;occ; 78; 0;34957
4; -1806.5; 06-NOV-2008 05:29:21; Bright; 41.5; 174; 52Psi UMa ; 3.00; 4400;occ; 83; 0;34957
5; -1341.2; 06-NOV-2008 05:37:06; Bright; 40.0; 96; 68Del Leo ; 2.56; 9300;occ; 80; 0;34957
6; -136.3; 06-NOV-2008 05:57:11; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;34957
7; 112.9; 06-NOV-2008 06:01:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34958
8; 236.3; 06-NOV-2008 06:03:24; Dark ; 40.0; 29; Bet Car ; 1.67; 10200;occ; 80; 0;34958
9; 584.2; 06-NOV-2008 06:09:12; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;34958
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11; 2264.6; 06-NOV-2008 06:37:12; Bright; 37.5; 105; 6Bet Ari ; 2.64; 8900;occ; 75; 0;34958
12; 2515.1; 06-NOV-2008 06:41:23; Bright; 36.5; 53; 43Bet And ; 2.05; 3300;occ; 73; 0;34958
13; 2642.8; 06-NOV-2008 06:43:30; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;34958
14; 2871.7; 06-NOV-2008 06:47:19; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;34958
15; 3423.2; 06-NOV-2008 06:56:31; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;34958
16; 3666.6; 06-NOV-2008 07:00:34; Bright; 13.0; 60; 7Bet UMi ; 2.08; 3950;occ; 26; 0;34958
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2; 2264.0; 06-NOV-2008 20:01:59; Bright; 37.0; 105; 6Bet Ari ; 2.64; 8900;occ; 74; 0;34966
3; 2515.5; 06-NOV-2008 20:06:11; Bright; 36.5; 53; 43Bet And ; 2.05; 3300;occ; 73; 0;34966
4; 2641.3; 06-NOV-2008 20:08:16; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;34966
5; 2872.3; 06-NOV-2008 20:12:07; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;34966
6; 3423.0; 06-NOV-2008 20:21:18; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;34966
7; 3667.6; 06-NOV-2008 20:25:23; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;34966
8; 3902.4; 06-NOV-2008 20:29:18; Bright; 42.5; 36; 50Alp UMa ; 1.80; 6300;occ; 85; 0;34966
9; 4000.0; 06-NOV-2008 20:30:55; Bright; 39.5; 82; 48Bet UMa ; 2.37; 10600;occ; 79; 0;34966
10; 4229.2; 06-NOV-2008 20:34:44; Bright; 40.5; 174; 52Psi UMa ; 3.00; 4400;occ; 81; 0;34966
11; 4697.4; 06-NOV-2008 20:42:32; Bright; 40.0; 96; 68Del Leo ; 2.56; 9300;occ; 80; 0;34966
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2; 120.0; 06-NOV-2008 21:06:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34967
3; 239.4; 06-NOV-2008 21:08:50; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;34967
4; 590.9; 06-NOV-2008 21:14:42; Dark ; 62.0; 2; Alp Car ; -0.74; 7000;occ; 124; 0;34967
5; 1168.9; 06-NOV-2008 21:24:20; Dark ; 39.0; 157; The1Eri ; 2.91; 9300;occ; 78; 0;34967
6; 2263.9; 06-NOV-2008 21:42:35; Bright; 38.0; 105; 6Bet Ari ; 2.64; 8900;occ; 76; 0;34967
7; 2515.6; 06-NOV-2008 21:46:47; Bright; 37.5; 53; 43Bet And ; 2.05; 3300;occ; 75; 0;34967
8; 2641.0; 06-NOV-2008 21:48:52; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;34967
9; 2872.3; 06-NOV-2008 21:52:43; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;34967
10; 3423.0; 06-NOV-2008 22:01:54; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;34967
11; 3667.8; 06-NOV-2008 22:05:59; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;34967
12; 3902.3; 06-NOV-2008 22:09:53; Bright; 40.0; 36; 50Alp UMa ; 1.80; 6300;occ; 80; 0;34967
13; 3999.9; 06-NOV-2008 22:11:31; Bright; 48.0; 82; 48Bet UMa ; 2.37; 10600;occ; 96; 0;34967
14; 4229.2; 06-NOV-2008 22:15:20; Bright; 40.0; 174; 52Psi UMa ; 3.00; 4400;occ; 80; 0;34967
15; 4697.6; 06-NOV-2008 22:23:09; Bright; 40.0; 96; 68Del Leo ; 2.56; 9300;occ; 80; 0;34967
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3; 239.7; 06-NOV-2008 22:49:27; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;34968
4; 591.6; 06-NOV-2008 22:55:18; Dark ; 61.5; 2; Alp Car ; -0.74; 7000;occ; 123; 0;34968
5; 1169.1; 06-NOV-2008 23:04:56; Dark ; 38.5; 157; The1Eri ; 2.91; 9300;occ; 77; 0;34968
6; 2263.9; 06-NOV-2008 23:23:11; Bright; 36.5; 105; 6Bet Ari ; 2.64; 8900;occ; 73; 0;34968
7; 2515.6; 06-NOV-2008 23:27:22; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;34968
8; 2640.9; 06-NOV-2008 23:29:28; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;34968
9; 2872.4; 06-NOV-2008 23:33:19; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;34968
10; 3423.0; 06-NOV-2008 23:42:30; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;34968
11; 3667.9; 06-NOV-2008 23:46:35; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;34968
12; 3902.2; 06-NOV-2008 23:50:29; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;34968
13; 3999.7; 06-NOV-2008 23:52:07; Bright; 51.5; 82; 48Bet UMa ; 2.37; 10600;occ; 103; 0;34968
14; 4229.1; 06-NOV-2008 23:55:56; Bright; 38.5; 174; 52Psi UMa ; 3.00; 4400;occ; 77; 0;34968

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3; -2035.0; 06-NOV-2008 07:06:09; Bright; 38.0; 82; 48Bet UMa ; 2.37; 10600;occ; 76; 0;34958
4; -1806.4; 06-NOV-2008 07:09:57; Bright; 45.5; 174; 52Psi UMa ; 3.00; 4400;occ; 91; 0;34958
5; -1340.8; 06-NOV-2008 07:17:43; Bright; 40.0; 96; 68Del Leo ; 2.56; 9300;occ; 80; 0;34958
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7; 113.7; 06-NOV-2008 07:41:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34959
8; 236.7; 06-NOV-2008 07:44:00; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;34959
9; 584.9; 06-NOV-2008 07:49:49; Dark ; 50.0; 2; Alp Car ; -0.74; 7000;occ; 100; 0;34959
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3; 2642.6; 06-NOV-2008 08:24:06; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;34959
4; 2871.7; 06-NOV-2008 08:27:55; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;34959
5; 3423.1; 06-NOV-2008 08:37:07; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;34959
6; 3666.8; 06-NOV-2008 08:41:10; Bright; 33.0; 60; 7Bet UMi ; 2.08; 3950;occ; 66; 0;34959
7; 3903.4; 06-NOV-2008 08:45:07; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;34959
8; 4000.8; 06-NOV-2008 08:46:44; Bright; 46.5; 82; 48Bet UMa ; 2.37; 10600;occ; 93; 0;34959
9; 4229.4; 06-NOV-2008 08:50:33; Bright; 38.5; 174; 52Psi UMa ; 3.00; 4400;occ; 77; 0;34959
10; 4695.5; 06-NOV-2008 08:58:19; Bright; 44.5; 96; 68Del Leo ; 2.56; 9300;occ; 89; 0;34959
11; 5900.6; 06-NOV-2008 09:18:24; Dark ; 40.5; 113; Mu Vel ; 2.69; 5000;occ; 81; 0;34959
12; 6150.4; 06-NOV-2008 09:22:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34959
13; 6272.9; 06-NOV-2008 09:24:36; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;34959
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3; 2642.3; 06-NOV-2008 10:04:42; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;34960
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5; 3423.1; 06-NOV-2008 10:17:43; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;34960
6; 3666.8; 06-NOV-2008 10:21:46; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;34960
7; 3903.2; 06-NOV-2008 10:25:43; Bright; 39.0; 36; 50Alp UMa ; 1.80; 6300;occ; 78; 0;34960
8; 4000.8; 06-NOV-2008 10:27:20; Bright; 58.0; 82; 48Bet UMa ; 2.37; 10600;occ; 116; 0;34960
9; 4229.4; 06-NOV-2008 10:31:09; Bright; 39.5; 174; 52Psi UMa ; 3.00; 4400;occ; 79; 0;34960
10; 4695.6; 06-NOV-2008 10:38:55; Bright; 42.5; 96; 68Del Leo ; 2.56; 9300;occ; 85; 0;34960
11; 5901.1; 06-NOV-2008 10:59:01; Dark ; 41.5; 113; Mu Vel ; 2.69; 5000;occ; 83; 0;34960
12; 6151.1; 06-NOV-2008 11:03:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34960
13; 6273.2; 06-NOV-2008 11:05:13; Dark ; 44.5; 29; Bet Car ; 1.67; 10200;occ; 89; 0;34960
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15; 7203.1; 06-NOV-2008 11:20:43; Dark ; 38.0; 157; The1Eri ; 2.91; 9300;occ; 76; 0;34960
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3; 2642.2; 06-NOV-2008 11:45:18; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;34961
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6; 3667.0; 06-NOV-2008 12:02:22; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;34961
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8; 4000.5; 06-NOV-2008 12:07:56; Bright; 42.5; 82; 48Bet UMa ; 2.37; 10600;occ; 85; 0;34961
9; 4229.4; 06-NOV-2008 12:11:45; Bright; 41.0; 174; 52Psi UMa ; 3.00; 4400;occ; 82; 0;34961
10; 4695.8; 06-NOV-2008 12:19:31; Bright; 41.0; 96; 68Del Leo ; 2.56; 9300;occ; 82; 0;34961
11; 5901.6; 06-NOV-2008 12:39:37; Dark ; 38.0; 113; Mu Vel ; 2.69; 5000;occ; 76; 0;34961
12; 6151.9; 06-NOV-2008 12:43:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34961
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3; 2642.0; 06-NOV-2008 13:25:53; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;34962
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5; 3423.2; 06-NOV-2008 13:38:54; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;34962
6; 3667.2; 06-NOV-2008 13:42:58; Bright; 33.5; 60; 7Bet UMi ; 2.08; 3950;occ; 67; 0;34962
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12; 6152.8; 06-NOV-2008 14:24:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34962
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7; 3903.0; 06-NOV-2008 15:27:30; Bright; 42.0; 36; 50Alp UMA ; 1.80; 6300;occ; 84; 0;34963
8; 4000.5; 06-NOV-2008 15:29:08; Bright; 38.5; 82; 48Bet UMA ; 2.37; 10600;occ; 77; 0;34963
9; 4229.5; 06-NOV-2008 15:32:57; Bright; 38.5; 174; 52Psi UMA ; 3.00; 4400;occ; 77; 0;34963
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6; 3423.0; 08-NOV-2008 07:33:52; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;34987
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 6; 3423.0; 08-NOV-2008 09:14:28; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;34988
 7; 3899.4; 08-NOV-2008 09:22:25; Bright; 40.5; 36; 50Alp UMa ; 1.80; 6300;occ; 81; 0;34988
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 9; 4228.6; 08-NOV-2008 09:27:54; Bright; 40.5; 174; 52Psi UMa ; 3.00; 4400;occ; 81; 0;34988
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 3; 2517.2; 08-NOV-2008 10:39:58; Bright; 36.5; 53; 43Bet And ; 2.05; 3300;occ; 73; 0;34989
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 7; 3899.2; 08-NOV-2008 11:03:00; Bright; 40.0; 36; 50Alp UMa ; 1.80; 6300;occ; 80; 0;34989
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 3; 2517.3; 08-NOV-2008 12:20:34; Bright; 36.0; 53; 43Bet And ; 2.05; 3300;occ; 72; 0;34990
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 5; 2874.6; 08-NOV-2008 12:26:32; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;34990
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 7; 3899.1; 08-NOV-2008 12:43:36; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;34990
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 9; 4228.6; 08-NOV-2008 12:49:06; Bright; 40.0; 174; 52Psi UMa ; 3.00; 4400;occ; 80; 0;34990
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 4; 2637.3; 08-NOV-2008 14:03:10; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;34991
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4; 613.4; 09-NOV-2008 01:13:38; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;34998
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6; 1984.7; 09-NOV-2008 01:36:29; Dark ; 49.5; 94; 92Alp Cet ; 2.53; 3100;occ; 99; 0;34998
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2; 1981.1; 10-NOV-2008 21:12:00; Dark ; 50.0; 94; 92Alp Cet ; 2.53; 3100;occ; 100; 0;35024
3; 2262.3; 10-NOV-2008 21:16:41; Bright; 36.0; 105; 6Bet Ari ; 2.64; 8900;occ; 72; 0;35024
4; 2509.1; 10-NOV-2008 21:20:48; Bright; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;35024
5; 2633.0; 10-NOV-2008 21:22:52; Bright; 37.0; 73; 57Gam1And ; 2.26; 13100;occ; 74; 0;35024
6; 2842.3; 10-NOV-2008 21:26:21; Bright; 39.0; 35; 33Alp Per ; 1.79; 6250;occ; 78; 0;35024
7; 2941.6; 10-NOV-2008 21:28:00; Bright; 34.0; 76; 27Gam Cas ; 2.30; 30000;occ; 68; 0;35024
8; 3422.7; 10-NOV-2008 21:36:01; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;35024
9; 3675.9; 10-NOV-2008 21:40:15; Bright; 32.0; 60; 7Bet UMi ; 2.08; 3950;occ; 64; 0;35024
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12; 4227.0; 10-NOV-2008 21:49:26; Bright; 43.0; 174; 52Psi UMA ; 3.00; 4400;occ; 86; 0;35024
13; 4321.6; 10-NOV-2008 21:51:00; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;35024
14; 4787.4; 10-NOV-2008 21:58:46; Bright; 38.0; 62; 94Bet Leo ; 2.14; 9700;occ; 76; 0;35024
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3; -101.7; 10-NOV-2008 22:17:53; Dark ; 41.0; 113; Mu Vel ; 2.69; 5000;occ; 82; 0;35024
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5; 260.4; 10-NOV-2008 22:23:55; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;35025
6; 632.7; 10-NOV-2008 22:30:07; Dark ; 60.0; 2; Alp Car ;-0.74; 7000;occ; 120; 0;35025
7; 1184.7; 10-NOV-2008 22:39:19; Dark ; 39.5; 157; The1Eri ; 2.91; 9300;occ; 79; 0;35025
8; 1981.0; 10-NOV-2008 22:52:35; Dark ; 50.5; 94; 92Alp Cet ; 2.53; 3100;occ; 101; 0;35025
9; 2262.2; 10-NOV-2008 22:57:17; Bright; 37.5; 105; 6Bet Ari ; 2.64; 8900;occ; 75; 0;35025
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14; 3422.7; 10-NOV-2008 23:16:37; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;35025
15; 3676.1; 10-NOV-2008 23:20:51; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;35025
16; 3893.5; 10-NOV-2008 23:24:28; Bright; 38.5; 36; 50Alp UMA ; 1.80; 6300;occ; 77; 0;35025
17; 3991.5; 10-NOV-2008 23:26:06; Bright; 40.5; 82; 48Bet UMA ; 2.37; 10600;occ; 81; 0;35025
18; 4227.1; 10-NOV-2008 23:30:02; Bright; 42.5; 174; 52Psi UMA ; 3.00; 4400;occ; 85; 0;35025
19; 4321.6; 10-NOV-2008 23:31:36; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;35025
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 4; 167.7; 11-NOV-2008 00:02:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35026
 5; 260.8; 11-NOV-2008 00:04:31; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;35026
 6; 633.3; 11-NOV-2008 00:10:44; Dark ; 49.0; 2; Alp Car ;-0.74; 7000;occ; 98; 0;35026
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 9; 2262.2; 11-NOV-2008 00:37:53; Bright; 38.0; 105; 6Bet Ari ; 2.64; 8900;occ; 76; 0;35026
 10; 2509.0; 11-NOV-2008 00:41:59; Bright; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;35026
 11; 2632.7; 11-NOV-2008 00:44:03; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;35026
 12; 2841.4; 11-NOV-2008 00:47:32; Bright; 40.5; 35; 33Alp Per ; 1.79; 6250;occ; 81; 0;35026
 13; 2930.0; 11-NOV-2008 00:49:00; Bright; 33.0; 110; 37Del Cas ; 2.68; 8900;occ; 66; 0;35026
 14; 3422.7; 11-NOV-2008 00:57:13; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;35026
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 16; 3893.4; 11-NOV-2008 01:05:04; Bright; 40.0; 36; 50Alp UMa ; 1.80; 6300;occ; 80; 0;35026
 17; 3991.5; 11-NOV-2008 01:06:42; Bright; 59.0; 82; 48Bet UMa ; 2.37; 10600;occ; 118; 0;35026
 18; 4226.9; 11-NOV-2008 01:10:37; Bright; 41.5; 174; 52Psi UMa ; 3.00; 4400;occ; 83; 0;35026
 19; 4321.8; 11-NOV-2008 01:12:12; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;35026
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 2; -2140.7; 10-NOV-2008 06:38:30; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;35015
 3; -2042.8; 10-NOV-2008 06:40:08; Bright; 40.0; 82; 48Bet UMa ; 2.37; 10600;occ; 80; 0;35015
 4; -1808.5; 10-NOV-2008 06:44:03; Bright; 61.0; 174; 52Psi UMa ; 3.00; 4400;occ; 122; 0;35015
 5; -1715.4; 10-NOV-2008 06:45:36; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;35015
 6; -1251.3; 10-NOV-2008 06:53:20; Bright; 37.5; 62; 94Bet Leo ; 2.14; 9700;occ; 75; 0;35015
 7; -650.4; 10-NOV-2008 07:03:21; Dark ; 40.0; 171; 2Eps Crv ; 3.00; 4250;occ; 80; 0;35015
 8; -106.5; 10-NOV-2008 07:12:25; Dark ; 41.0; 113; Mu Vel ; 2.69; 5000;occ; 82; 0;35015
 9; 159.5; 10-NOV-2008 07:16:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35016
 10; 257.3; 10-NOV-2008 07:18:28; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;35016
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 12; 1182.6; 10-NOV-2008 07:33:54; Dark ; 37.5; 157; The1Eri ; 2.91; 9300;occ; 75; 0;35016

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 2; 2262.5; 10-NOV-2008 07:51:54; Bright; 37.5; 105; 6Bet Ari ; 2.64; 8900;occ; 75; 0;35016
 3; 2510.2; 10-NOV-2008 07:56:01; Bright; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;35016
 4; 2634.0; 10-NOV-2008 07:58:05; Bright; 37.0; 73; 57Gam1And ; 2.26; 13100;occ; 74; 0;35016
 5; 2877.9; 10-NOV-2008 08:02:09; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;35016
 6; 3422.8; 10-NOV-2008 08:11:14; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;35016
 7; 3675.0; 10-NOV-2008 08:15:26; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;35016
 8; 3895.1; 10-NOV-2008 08:19:06; Bright; 40.0; 36; 50Alp UMa ; 1.80; 6300;occ; 80; 0;35016
 9; 3993.1; 10-NOV-2008 08:20:44; Bright; 40.5; 82; 48Bet UMa ; 2.37; 10600;occ; 81; 0;35016
 10; 4227.5; 10-NOV-2008 08:24:39; Bright; 42.0; 174; 52Psi UMa ; 3.00; 4400;occ; 84; 0;35016
 11; 4320.6; 10-NOV-2008 08:26:12; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;35016
 12; 4784.9; 10-NOV-2008 08:33:56; Bright; 36.5; 62; 94Bet Leo ; 2.14; 9700;occ; 73; 0;35016
 13; 5385.9; 10-NOV-2008 08:43:57; Dark ; 42.0; 171; 2Eps Crv ; 3.00; 4250;occ; 84; 0;35016
 14; 5930.0; 10-NOV-2008 08:53:01; Dark ; 40.0; 113; Mu Vel ; 2.69; 5000;occ; 80; 0;35016
 15; 6196.2; 10-NOV-2008 08:57:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35016
 16; 6293.6; 10-NOV-2008 08:59:05; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;35016
 17; 6662.9; 10-NOV-2008 09:05:14; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;35016
 18; 7218.9; 10-NOV-2008 09:14:30; Dark ; 38.5; 157; The1Eri ; 2.91; 9300;occ; 77; 0;35016

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 2; 2262.4; 10-NOV-2008 09:32:29; Bright; 37.5; 105; 6Bet Ari ; 2.64; 8900;occ; 75; 0;35017
 3; 2510.0; 10-NOV-2008 09:36:37; Bright; 35.0; 173; 4Bet Tri ; 3.00; 8900;occ; 70; 0;35017
 4; 2633.9; 10-NOV-2008 09:38:41; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;35017
 5; 2877.9; 10-NOV-2008 09:42:45; Bright; 35.0; 68; 18Alp Cas ; 2.22; 4500;occ; 70; 0;35017
 6; 3422.8; 10-NOV-2008 09:51:50; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;35017
 7; 3675.1; 10-NOV-2008 09:56:02; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;35017
 8; 3894.9; 10-NOV-2008 09:59:42; Bright; 37.5; 36; 50Alp UMa ; 1.80; 6300;occ; 75; 0;35017
 9; 3993.0; 10-NOV-2008 10:01:20; Bright; 38.0; 82; 48Bet UMa ; 2.37; 10600;occ; 76; 0;35017
 10; 4227.4; 10-NOV-2008 10:05:15; Bright; 46.0; 174; 52Psi UMa ; 3.00; 4400;occ; 92; 0;35017
 11; 4320.7; 10-NOV-2008 10:06:48; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;35017
 12; 4785.2; 10-NOV-2008 10:14:32; Bright; 40.0; 62; 94Bet Leo ; 2.14; 9700;occ; 80; 0;35017
 13; 5386.2; 10-NOV-2008 10:24:33; Dark ; 42.0; 171; 2Eps Crv ; 3.00; 4250;occ; 84; 0;35017
 14; 5930.5; 10-NOV-2008 10:33:38; Dark ; 40.5; 113; Mu Vel ; 2.69; 5000;occ; 81; 0;35017


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16; 6293.9; 10-NOV-2008 10:39:41; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;35017
17; 6663.5; 10-NOV-2008 10:45:51; Dark ; 47.5; 2; Alp Car ;-0.74; 7000;occ; 95; 0;35017
18; 7219.1; 10-NOV-2008 10:55:06; Dark ; 38.5; 157; The1Eri ; 2.91; 9300;occ; 77; 0;35017
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 6; 3422.7; 10-NOV-2008 11:32:26; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;35018
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 8; 3894.7; 10-NOV-2008 11:40:18; Bright; 39.0; 36; 50Alp UMa ; 1.80; 6300;occ; 78; 0;35018
 9; 3992.8; 10-NOV-2008 11:41:56; Bright; 41.5; 82; 48Bet UMa ; 2.37; 10600;occ; 83; 0;35018
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11; 4320.8; 10-NOV-2008 11:47:24; Bright; 33.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 66; 0;35018
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17; 6664.4; 10-NOV-2008 12:26:27; Dark ; 59.5; 2; Alp Car ;-0.74; 7000;occ; 119; 0;35018
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 5; 2878.3; 10-NOV-2008 16:25:09; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;35021
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 11; 4321.4; 10-NOV-2008 16:49:12; Bright; 33.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 66; 0;35021
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 5; 2633.3; 10-NOV-2008 18:01:40; Bright; 37.0; 73; 57Gam1And ; 2.26; 13100;occ; 74; 0;35022
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 7; 2941.5; 10-NOV-2008 18:06:48; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;35022
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 9; 3675.7; 10-NOV-2008 18:19:02; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;35022
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 13; 4321.4; 10-NOV-2008 18:29:48; Bright; 52.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 104; 0;35022
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 12; 4227.1; 10-NOV-2008 20:08:50; Bright; 41.0; 174; 52Psi UMa ; 3.00; 4400;occ; 82; 0;35023
 13; 4321.5; 10-NOV-2008 20:10:24; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;35023
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 19; 6296.0; 10-NOV-2008 20:43:19; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;35023
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 10; 2509.0; 11-NOV-2008 02:22:35; Bright; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;35027
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 13; 2930.0; 11-NOV-2008 02:29:36; Bright; 34.5; 110; 37Del Cas ; 2.68; 8900;occ; 69; 0;35027
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3; -1808.8; 11-NOV-2008 02:51:13; Bright; 41.5; 174; 52Psi UMA ; 3.00; 4400;occ; 83; 0;35027
4; -1714.1; 11-NOV-2008 02:52:48; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;35027
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7; -645.9; 11-NOV-2008 03:10:36; Dark ; 42.0; 171; 2Eps Crv ; 3.00; 4250;occ; 84; 0;35027
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5; -1713.8; 11-NOV-2008 04:33:24; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;35028
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15; 5393.8; 11-NOV-2008 18:16:03; Dark ; 41.0; 171; 2Eps Crv ; 3.00; 4250;occ; 82; 0;35036
16; 5941.0; 11-NOV-2008 18:25:11; Dark ; 39.0; 113; Mu Vel ; 2.69; 5000;occ; 78; 0;35036
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8; 1979.4; 12-NOV-2008 01:42:09; Dark ; 48.5; 94; 92Alp Cet ; 2.53; 3100;occ; 97; 0;35041
9; 2262.5; 12-NOV-2008 01:46:52; Bright; 36.5; 105; 6Bet Ari ; 2.64; 8900;occ; 73; 0;35041
10; 2507.5; 12-NOV-2008 01:50:57; Bright; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;35041
11; 2631.4; 12-NOV-2008 01:53:00; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;35041
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13; 2930.2; 12-NOV-2008 01:57:59; Bright; 52.0; 110; 37Del Cas ; 2.68; 8900;occ; 104; 0;35041

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10; 182.5; 12-NOV-2008 06:14:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35044
11; 355.3; 12-NOV-2008 06:16:52; Dark ; 47.0; 34; Gam2Vel ; 1.79; 23000;occ; 94; 0;35044
12; 646.0; 12-NOV-2008 06:21:43; Dark ; 58.0; 2; Alp Car ;-0.74; 7000;occ; 116; 0;35044
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16; 2507.2; 12-NOV-2008 06:52:44; Bright; 37.0; 173; 4Bet Tri ; 3.00; 8900;occ; 74; 0;35044
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3; 2262.7; 12-NOV-2008 20:13:27; Bright; 36.5; 105; 6Bet Ari ; 2.64; 8900;occ; 73; 0;35052
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7; 2930.2; 12-NOV-2008 20:24:35; Bright; 35.0; 110; 37Del Cas ; 2.68; 8900;occ; 70; 0;35052
8; 3422.5; 12-NOV-2008 20:32:47; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;35052
9; 3679.6; 12-NOV-2008 20:37:04; Bright; 33.0; 60; 7Bet UMi ; 2.08; 3950;occ; 66; 0;35052
10; 3888.7; 12-NOV-2008 20:40:33; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;35052
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12; 4115.4; 12-NOV-2008 20:44:20; Bright; 33.5; 39; 85Eta UMA ; 1.85; 24000;occ; 67; 0;35052
13; 4325.0; 12-NOV-2008 20:47:49; Bright; 34.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 68; 0;35052
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6; 190.0; 12-NOV-2008 21:19:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35053
7; 363.9; 12-NOV-2008 21:22:24; Dark ; 49.0; 34; Gam2Vel ; 1.79; 23000;occ; 98; 0;35053
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16; 3422.5; 12-NOV-2008 22:13:23; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;35053
17; 3679.6; 12-NOV-2008 22:17:40; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;35053
18; 3888.5; 12-NOV-2008 22:21:09; Bright; 41.5; 36; 50Alp UMa ; 1.80; 6300;occ; 83; 0;35053
19; 3986.9; 12-NOV-2008 22:22:47; Bright; 41.0; 82; 48Bet UMA ; 2.37; 10600;occ; 82; 0;35053
20; 4115.4; 12-NOV-2008 22:24:56; Bright; 35.0; 39; 85Eta UMA ; 1.85; 24000;occ; 70; 0;35053
21; 4325.0; 12-NOV-2008 22:28:25; Bright; 34.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 68; 0;35053
22; 4797.1; 12-NOV-2008 22:36:17; Bright; 47.5; 62; 94Bet Leo ; 2.14; 9700;occ; 95; 0;35053
23; 5012.0; 12-NOV-2008 22:39:52; Bright; 34.5; 121; 29Gam Vir ; 2.74; 7200;occ; 69; 0;35053
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15; 3422.5; 12-NOV-2008 23:53:59; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;35054
16; 3679.8; 12-NOV-2008 23:58:16; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;35054
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18; 3986.7; 13-NOV-2008 00:03:23; Bright; 40.0; 82; 48Bet UMA ; 2.37; 10600;occ; 80; 0;35054
19; 4115.6; 13-NOV-2008 00:05:32; Bright; 35.5; 39; 85Eta UMA ; 1.85; 24000;occ; 71; 0;35054
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21; 4797.5; 13-NOV-2008 00:16:54; Bright; 39.0; 62; 94Bet Leo ; 2.14; 9700;occ; 78; 0;35054
22; 5012.3; 13-NOV-2008 00:20:28; Bright; 34.0; 121; 29Gam Vir ; 2.74; 7200;occ; 68; 0;35054
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11; 4118.6; 14-NOV-2008 09:37:33; Bright; 47.5; 39; 85Eta UMa ; 1.85; 24000;occ; 95; 0;35074
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13; 4804.8; 14-NOV-2008 09:49:00; Bright; 41.5; 62; 94Bet Leo ; 2.14; 9700;occ; 83; 0;35074
14; 5018.6; 14-NOV-2008 09:52:33; Bright; 34.5; 121; 29Gam Vir ; 2.74; 7200;occ; 69; 0;35074
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16; 5410.0; 14-NOV-2008 09:59:05; Dark ; 45.0; 171; 2Eps Crv ; 3.00; 4250;occ; 90; 0;35074
17; 5962.7; 14-NOV-2008 10:08:17; Dark ; 41.5; 113; Mu Vel ; 2.69; 5000;occ; 83; 0;35074
18; 6143.5; 14-NOV-2008 10:11:18; Dark ; 37.0; 124; The Car ; 2.76; 30000;occ; 74; 0;35074
19; 6244.2; 14-NOV-2008 10:12:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35074
20; 6421.5; 14-NOV-2008 10:15:56; Dark ; 36.0; 34; Gam2Vel ; 1.79; 23000;occ; 72; 0;35074
21; 6703.0; 14-NOV-2008 10:20:38; Dark ; 45.0; 2; Alp Car ;-0.74; 7000;occ; 90; 0;35074
22; 7233.3; 14-NOV-2008 10:29:28; Dark ; 38.5; 157; The1Eri ; 2.91; 9300;occ; 77; 0;35074
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 9; 3884.5; 14-NOV-2008 11:14:15; Bright; 36.5; 36; 50Alp UMa ; 1.80; 6300;occ; 73; 0;35075
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 11; 4118.6; 14-NOV-2008 11:18:09; Bright; 34.0; 39; 85Eta UMa ; 1.85; 24000;occ; 68; 0;35075
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 13; 4805.2; 14-NOV-2008 11:29:36; Bright; 44.5; 62; 94Bet Leo ; 2.14; 9700;occ; 89; 0;35075
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 16; 5410.4; 14-NOV-2008 11:39:41; Dark ; 41.5; 171; 2Eps Crv ; 3.00; 4250;occ; 83; 0;35075
 17; 5963.2; 14-NOV-2008 11:48:54; Dark ; 40.5; 113; Mu Vel ; 2.69; 5000;occ; 81; 0;35075
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 21; 6703.7; 14-NOV-2008 12:01:14; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;35075
 22; 7233.5; 14-NOV-2008 12:10:04; Dark ; 37.5; 157; The1Eri ; 2.91; 9300;occ; 75; 0;35075

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 3; 2504.9; 14-NOV-2008 12:31:51; Bright; 34.5; 173; 4Bet Tri ; 3.00; 8900;occ; 69; 0;35076
 4; 2628.9; 14-NOV-2008 12:33:55; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;35076
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 6; 2930.8; 14-NOV-2008 12:38:57; Bright; 35.0; 110; 37Del Cas ; 2.68; 8900;occ; 70; 0;35076
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 8; 3682.6; 14-NOV-2008 12:51:29; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;35076
 9; 3884.3; 14-NOV-2008 12:54:51; Bright; 41.5; 36; 50Alp UMa ; 1.80; 6300;occ; 83; 0;35076
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 11; 4118.8; 14-NOV-2008 12:58:45; Bright; 35.0; 39; 85Eta UMa ; 1.85; 24000;occ; 70; 0;35076
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 13; 4805.6; 14-NOV-2008 13:10:12; Bright; 39.5; 62; 94Bet Leo ; 2.14; 9700;occ; 79; 0;35076
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 18; 6144.2; 14-NOV-2008 13:32:31; Dark ; 37.0; 124; The Car ; 2.76; 30000;occ; 74; 0;35076
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 21; 6704.4; 14-NOV-2008 13:41:51; Dark ; 52.5; 2; Alp Car ; -0.74; 7000;occ; 105; 0;35076
 22; 7233.8; 14-NOV-2008 13:50:40; Dark ; 37.5; 157; The1Eri ; 2.91; 9300;occ; 75; 0;35076

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 3; 2504.8; 14-NOV-2008 14:12:27; Bright; 34.0; 173; 4Bet Tri ; 3.00; 8900;occ; 68; 0;35077
 4; 2628.9; 14-NOV-2008 14:14:31; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;35077
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 6; 2930.9; 14-NOV-2008 14:19:33; Bright; 35.0; 110; 37Del Cas ; 2.68; 8900;occ; 70; 0;35077
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 11; 4119.0; 14-NOV-2008 14:39:21; Bright; 34.0; 39; 85Eta UMa ; 1.85; 24000;occ; 68; 0;35077
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 13; 4806.0; 14-NOV-2008 14:50:48; Bright; 42.0; 62; 94Bet Leo ; 2.14; 9700;occ; 84; 0;35077
 14; 5019.7; 14-NOV-2008 14:54:22; Bright; 42.5; 121; 29Gam Vir ; 2.74; 7200;occ; 85; 0;35077
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 17; 5964.5; 14-NOV-2008 15:10:07; Dark ; 41.5; 113; Mu Vel ; 2.69; 5000;occ; 83; 0;35077
 18; 6144.6; 14-NOV-2008 15:13:07; Dark ; 36.5; 124; The Car ; 2.76; 30000;occ; 73; 0;35077
 19; 6246.8; 14-NOV-2008 15:14:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35077
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 21; 6705.2; 14-NOV-2008 15:22:27; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;35077
 22; 7234.1; 14-NOV-2008 15:31:16; Dark ; 36.5; 157; The1Eri ; 2.91; 9300;occ; 73; 0;35077

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 3; 2504.7; 14-NOV-2008 15:53:03; Bright; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;35078
 4; 2628.8; 14-NOV-2008 15:55:07; Bright; 37.0; 73; 57Gam1And ; 2.26; 13100;occ; 74; 0;35078
 5; 2820.1; 14-NOV-2008 15:58:18; Bright; 40.5; 35; 33Alp Per ; 1.79; 6250;occ; 81; 0;35078
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 7; 3422.6; 14-NOV-2008 16:08:21; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;35078
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 9; 3884.1; 14-NOV-2008 16:16:02; Bright; 43.0; 36; 50Alp UMa ; 1.80; 6300;occ; 86; 0;35078
 10; 3982.4; 14-NOV-2008 16:17:41; Bright; 43.0; 82; 48Bet UMa ; 2.37; 10600;occ; 86; 0;35078
 11; 4119.2; 14-NOV-2008 16:19:57; Bright; 34.5; 39; 85Eta UMa ; 1.85; 24000;occ; 69; 0;35078
 12; 4328.0; 14-NOV-2008 16:23:26; Bright; 38.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 76; 0;35078
 13; 4806.3; 14-NOV-2008 16:31:25; Bright; 40.5; 62; 94Bet Leo ; 2.14; 9700;occ; 81; 0;35078
 14; 5019.9; 14-NOV-2008 16:34:58; Bright; 53.0; 121; 29Gam Vir ; 2.74; 7200;occ; 106; 0;35078
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 3; 788.8; 14-NOV-2008 18:45:39; Dark ; 81.0; 88; 31Eta CMA ; 2.45; 20000;occ; 162; 0;35080
 4; 927.0; 14-NOV-2008 18:47:57; Dark ; 80.5; 23; 21Eps CMA ; 1.50; 26000;occ; 161; 0;35080

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 3; 1450.1; 14-NOV-2008 18:56:40; Dark ; 26.0; 47; 2Bet CMA ; 1.98; 28000;occ; 52; 0;35080
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 5; 1798.4; 14-NOV-2008 19:02:29; Dark ; 85.0; 7; 19Bet Ori ; 0.10; 14000;occ; 170; 0;35080
 6; 1926.8; 14-NOV-2008 19:04:37; Dark ; 35.0; 125; 44Iot Ori ; 2.77; 30000;occ; 70; 0;35080
 7; 2369.3; 14-NOV-2008 19:12:00; Bright; 64.0; 13; 87Alp Tau ; 0.87; 3800;occ; 128; 0;35080
 8; 2562.3; 14-NOV-2008 19:15:13; Bright; 44.0; 150; 44Zet Per ; 2.89; 28000;occ; 88; 0;35080
 9; 2788.3; 14-NOV-2008 19:18:59; Bright; 58.0; 114; 3Iot Aur ; 2.69; 4600;occ; 116; 0;35080
 10; 3044.8; 14-NOV-2008 19:23:15; Bright; 57.0; 6; 13Alp Aur ; 0.08; 3400;occ; 114; 0;35080
 11; 3229.8; 14-NOV-2008 19:26:20; Bright; 64.0; 42; 34Bet Aur ; 1.90; 10200;occ; 128; 0;35080
 12; 4835.7; 14-NOV-2008 19:53:06; Bright; 88.0; 166; 17Eps Leo ; 2.98; 6000;occ; 176; 0;35080
 13; 5122.3; 14-NOV-2008 19:57:53; Dark ; 83.0; 22; 32Alp Leo ; 1.36; 15200;occ; 166; 0;35080
 14; 5905.1; 14-NOV-2008 20:10:55; Dark ; 111.0; 48; 30Alp Hya ; 1.98; 4100;occ; 222; 0;35080
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 16; 6638.4; 14-NOV-2008 20:23:09; Dark ; 98.5; 132; 15Rho Pup ; 2.80; 6900;occ; 197; 0;35080
 17; 6826.2; 14-NOV-2008 20:26:16; Dark ; 79.0; 88; 31Eta CMA ; 2.45; 20000;occ; 158; 0;35080
 18; 6964.1; 14-NOV-2008 20:28:34; Dark ; 82.0; 23; 21Eps CMA ; 1.50; 26000;occ; 164; 0;35080
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 3; 689.2; 15-NOV-2008 01:26:23; Dark ; 65.5; 117; Pi Pup ; 2.71; 3800;occ; 131; 0;35084
 4; 794.8; 15-NOV-2008 01:28:09; Dark ; 80.0; 88; 31Eta CMA ; 2.45; 20000;occ; 160; 0;35084
 5; 932.1; 15-NOV-2008 01:30:26; Dark ; 76.5; 23; 21Eps CMA ; 1.50; 26000;occ; 153; 0;35084
 6; 1075.9; 15-NOV-2008 01:32:50; Dark ; 53.0; 108; Alp Col ; 2.65; 15200;occ; 106; 0;35084
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 9; 1922.8; 15-NOV-2008 01:46:57; Dark ; 48.0; 125; 44Iot Ori ; 2.77; 30000;occ; 96; 0;35084
 10; 2365.6; 15-NOV-2008 01:54:19; Bright; 63.0; 13; 87Alp Tau ; 0.87; 3800;occ; 126; 0;35084
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 12; 2783.4; 15-NOV-2008 02:01:17; Bright; 59.5; 114; 3Iot Aur ; 2.69; 4600;occ; 119; 0;35084
 13; 3040.3; 15-NOV-2008 02:05:34; Bright; 55.5; 6; 13Alp Aur ; 0.08; 3400;occ; 111; 0;35084
 14; 3224.4; 15-NOV-2008 02:08:38; Bright; 57.5; 42; 34Bet Aur ; 1.90; 10200;occ; 115; 0;35084

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 3; -118.9; 15-NOV-2008 02:53:31; Dark ; 116.5; 48; 30Alp Hya ; 1.98; 4100;occ; 233; 0;35084
 4; 432.3; 15-NOV-2008 03:02:42; Dark ; 59.5; 0; 0.00; 0;occ; 119; 0;35085
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 6; 796.4; 15-NOV-2008 03:08:46; Dark ; 78.0; 88; 31Eta CMA ; 2.45; 20000;occ; 156; 0;35085
 7; 933.4; 15-NOV-2008 03:11:03; Dark ; 82.0; 23; 21Eps CMA ; 1.50; 26000;occ; 164; 0;35085
 8; 1076.3; 15-NOV-2008 03:13:26; Dark ; 51.0; 108; Alp Col ; 2.65; 15200;occ; 102; 0;35085
 9; 1451.8; 15-NOV-2008 03:19:41; Dark ; 34.0; 47; 2Bet CMA ; 1.98; 28000;occ; 68; 0;35085


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12; 2364.7; 15-NOV-2008 03:34:54; Bright; 62.0; 13; 87Alp Tau ; 0.87; 3800;occ; 124; 0;35085
13; 2559.2; 15-NOV-2008 03:38:09; Bright; 44.0; 150; 44Zet Per ; 2.89; 28000;occ; 88; 0;35085
14; 2782.1; 15-NOV-2008 03:41:52; Bright; 59.0; 114; 3Iot Aur ; 2.69; 4600;occ; 118; 0;35085
15; 3039.3; 15-NOV-2008 03:46:09; Bright; 57.0; 6; 13Alp Aur ; 0.08; 3400;occ; 114; 0;35085
16; 3222.9; 15-NOV-2008 03:49:13; Bright; 61.0; 42; 34Bet Aur ; 1.90; 10200;occ; 122; 0;35085
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 3; -116.1; 15-NOV-2008 04:34:10; Dark ; 110.0; 48; 30Alp Hya ; 1.98; 4100;occ; 220; 0;35085
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 5; 691.7; 15-NOV-2008 04:47:37; Dark ; 66.0; 117; Pi Pup ; 2.71; 3800;occ; 132; 0;35086
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11; 4742.0; 15-NOV-2008 21:00:31; Bright; 47.0; 96; 68Del Leo ; 2.56; 9300;occ; 94; 0;35095
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 5; 812.9; 15-NOV-2008 21:35:38; Dark ; 80.5; 88; 31Eta CMa ; 2.45; 20000;occ; 161; 0;35096
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10; 1912.3; 15-NOV-2008 21:53:57; Dark ; 86.0; 125; 44Iot Ori ; 2.77; 30000;occ; 172; 0;35096
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15; 4852.8; 16-NOV-2008 00:23:34; Dark ; 104.0; 166; 17Eps Leo ; 2.98; 6000;occ; 208; 0;35097
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 5; 2778.4; 15-NOV-2008 08:43:36; Bright; 60.5; 114; 3Iot Aur ; 2.69; 4600;occ; 121; 0;35088
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13; 6731.0; 15-NOV-2008 09:49:29; Dark ; 63.0; 117; Pi Pup ; 2.71; 3800;occ; 126; 0;35088
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11; 5932.0; 15-NOV-2008 11:16:45; Dark ; 115.0; 48; 30Alp Hya ; 1.98; 4100;occ; 230; 0;35089
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4; 815.9; 16-NOV-2008 00:56:53; Dark ; 80.5; 88; 31Eta CMA ; 2.45; 20000;occ; 161; 0;35098
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12; 3025.6; 16-NOV-2008 01:33:42; Bright; 54.5; 6; 13Alp Aur ; 0.08; 3400;occ; 109; 0;35098
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7; 1085.3; 16-NOV-2008 02:41:58; Dark ; 53.0; 108; Alp Col ; 2.65; 15200;occ; 106; 0;35099
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7; 819.0; 16-NOV-2008 04:18:07; Dark ; 77.0; 88; 31Eta CMA ; 2.45; 20000;occ; 154; 0;35100
8; 952.1; 16-NOV-2008 04:20:21; Dark ; 78.0; 23; 21Eps CMA ; 1.50; 26000;occ; 156; 0;35100
9; 1086.0; 16-NOV-2008 04:22:35; Dark ; 52.0; 108; Alp Col ; 2.65; 15200;occ; 104; 0;35100
10; 1456.7; 16-NOV-2008 04:28:45; Dark ; 66.0; 47; 2Bet CMA ; 1.98; 28000;occ; 132; 0;35100
11; 1791.0; 16-NOV-2008 04:34:20; Dark ; 84.5; 7; 19Bet Ori ; 0.10; 14000;occ; 169; 0;35100
12; 1909.2; 16-NOV-2008 04:36:18; Dark ; 93.0; 125; 44Iot Ori ; 2.77; 30000;occ; 186; 0;35100
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15; 2764.2; 16-NOV-2008 04:50:33; Bright; 59.0; 114; 3Iot Aur ; 2.69; 4600;occ; 118; 0;35100
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5; 709.4; 16-NOV-2008 05:56:54; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;35101
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6; 821.8; 16-NOV-2008 07:39:22; Dark ; 77.5; 88; 31Eta CMa ; 2.45; 20000;occ; 155; 0;35102
7; 954.3; 16-NOV-2008 07:41:35; Dark ; 79.5; 23; 21Eps CMa ; 1.50; 26000;occ; 159; 0;35102
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6; 1017.2; 20-NOV-2008 05:36:10; Dark ; 78.5; 23; 21Eps CMA ; 1.50; 26000;occ; 157; 0;35158
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8; 1472.9; 20-NOV-2008 05:43:45; Dark ; 94.5; 47; 2Bet CMA ; 1.98; 28000;occ; 189; 0;35158
9; 1774.5; 20-NOV-2008 05:48:47; Dark ; 74.0; 7; 19Bet Ori ; 0.10; 14000;occ; 148; 0;35158
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9; 3114.0; 20-NOV-2008 21:16:30; Bright; 59.0; 42; 34Bet Aur ; 1.90; 10200;occ; 118; 0;35167
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4; 1027.7; 20-NOV-2008 22:22:20; Dark ; 75.0; 23; 21Eps CMA ; 1.50; 26000;occ; 150; 0;35168
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12; 3112.8; 20-NOV-2008 22:57:05; Bright; 56.5; 42; 34Bet Aur ; 1.90; 10200;occ; 113; 0;35168
13; 4214.3; 20-NOV-2008 23:15:26; Bright; 47.0; 174; 52Psi UMa ; 3.00; 4400;occ; 94; 0;35168
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4; 1028.7; 21-NOV-2008 00:02:57; Dark ; 74.0; 23; 21Eps CMA ; 1.50; 26000;occ; 148; 0;35169
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14; 4774.9; 21-NOV-2008 01:05:23; Bright; 59.5; 96; 68Del Leo ; 2.56; 9300;occ; 119; 0;35169
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8; 1157.5; 20-NOV-2008 07:19:06; Dark ; 91.5; 179; 240mi2CMA ; 3.03; 24000;occ; 183; 0;35159
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6; 3123.9; 20-NOV-2008 07:51:52; Bright; 59.0; 42; 34Bet Aur ; 1.90; 10200;occ; 118; 0;35159

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13; 7055.2; 20-NOV-2008 08:57:24; Dark ; 82.0; 23; 21Eps CMA ; 1.50; 26000;occ; 164; 0;35159
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6; 3122.7; 20-NOV-2008 09:32:27; Bright; 55.5; 42; 34Bet Aur ; 1.90; 10200;occ; 111; 0;35160
7; 4215.5; 20-NOV-2008 09:50:40; Bright; 46.0; 174; 52Psi UMa ; 3.00; 4400;occ; 92; 0;35160
8; 4770.5; 20-NOV-2008 09:59:55; Bright; 53.0; 96; 68Del Leo ; 2.56; 9300;occ; 106; 0;35160
9; 4928.9; 20-NOV-2008 10:02:33; Dark ; 102.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 204; 0;35160
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8; 4771.4; 20-NOV-2008 13:21:08; Bright; 52.5; 96; 68Del Leo ; 2.56; 9300;occ; 105; 0;35162
9; 4931.1; 20-NOV-2008 13:23:47; Dark ; 102.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 205; 0;35162
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11; 6621.8; 20-NOV-2008 13:51:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35162
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13; 7058.3; 20-NOV-2008 13:59:14; Dark ; 78.5; 23; 21Eps CMA ; 1.50; 26000;occ; 157; 0;35162
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3; 2021.4; 20-NOV-2008 14:15:53; Dark ; 89.0; 30; 46Eps Ori ; 1.69; 30000;occ; 178; 0;35163
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7; 3119.0; 20-NOV-2008 14:34:11; Bright; 59.5; 42; 34Bet Aur ; 1.90; 10200;occ; 119; 0;35163
8; 4214.8; 20-NOV-2008 14:52:27; Bright; 44.5; 174; 52Psi UMa ; 3.00; 4400;occ; 89; 0;35163
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13; 7071.7; 21-NOV-2008 11:47:15; Dark ; 78.5; 23; 21Eps CMA ; 1.50; 26000;occ; 157; 0;35175
14; 7210.5; 21-NOV-2008 11:49:34; Dark ; 87.5; 179; 240mi2CMA ; 3.03; 24000;occ; 175; 0;35175
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7; 3100.6; 21-NOV-2008 15:42:52; Bright; 58.0; 42; 34Bet Aur ; 1.90; 10200;occ; 116; 0;35178
8; 4213.0; 21-NOV-2008 16:01:24; Bright; 46.0; 174; 52Psi UMa ; 3.00; 4400;occ; 92; 0;35178
9; 4779.5; 21-NOV-2008 16:10:51; Bright; 56.0; 96; 68Del Leo ; 2.56; 9300;occ; 112; 0;35178
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8; 2947.2; 21-NOV-2008 19:01:30; Bright; 52.5; 6; 13Alp Aur ; 0.08; 3400;occ; 105; 0;35180
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9; 1973.4; 25-NOV-2008 03:14:01; Dark ; 72.0; 30; 46Eps Ori ; 1.69; 30000;occ; 144; 0;35228
10; 2149.9; 25-NOV-2008 03:16:58; Dark ; 74.5; 27; 24Gam Ori ; 1.64; 26000;occ; 149; 0;35228
11; 2300.6; 25-NOV-2008 03:19:29; Bright; 86.0; 14; 58Alp Ori ; 0.87; 3000;occ; 172; 0;35228
12; 2640.7; 25-NOV-2008 03:25:09; Bright; 50.0; 114; 3Iot Aur ; 2.69; 4600;occ; 100; 0;35228
13; 2906.9; 25-NOV-2008 03:29:35; Bright; 55.5; 6; 13Alp Aur ; 0.08; 3400;occ; 111; 0;35228
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3; -1015.4; 25-NOV-2008 04:04:49; Dark ; 64.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 128; 0;35228
4; 123.8; 25-NOV-2008 04:23:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35229
5; 624.0; 25-NOV-2008 04:32:08; Dark ; 53.5; 70; Zet Pup ; 2.25; 39000;occ; 107; 0;35229
6; 847.0; 25-NOV-2008 04:35:51; Dark ; 64.5; 117; Pi Pup ; 2.71; 3800;occ; 129; 0;35229
7; 1085.0; 25-NOV-2008 04:39:49; Dark ; 73.0; 23; 21Eps CMa ; 1.50; 26000;occ; 146; 0;35229
8; 1220.9; 25-NOV-2008 04:42:05; Dark ; 80.0; 179; 240mi2CMa ; 3.03; 24000;occ; 160; 0;35229
9; 1520.0; 25-NOV-2008 04:47:04; Dark ; 110.0; 1; 9Alp CMa ; -1.44; 11000;occ; 220; 0;35229
10; 1761.3; 25-NOV-2008 04:51:05; Dark ; 68.5; 7; 19Bet Ori ; 0.10; 14000;occ; 137; 0;35229

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13; 2299.1; 25-NOV-2008 05:00:03; Bright; 86.0; 14; 58Alp Ori ; 0.87; 3000;occ; 172; 0;35229
14; 2639.9; 25-NOV-2008 05:05:44; Bright; 48.0; 114; 3Iot Aur ; 2.69; 4600;occ; 96; 0;35229
15; 2906.1; 25-NOV-2008 05:10:10; Bright; 50.0; 6; 13Alp Aur ; 0.08; 3400;occ; 100; 0;35229
16; 3040.7; 25-NOV-2008 05:12:25; Bright; 54.0; 42; 34Bet Aur ; 1.90; 10200;occ; 108; 0;35229
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 4; 126.4; 25-NOV-2008 06:04:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35230
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 6; 847.9; 25-NOV-2008 06:16:28; Dark ; 63.0; 117; Pi Pup ; 2.71; 3800;occ; 126; 0;35230
 7; 1085.8; 25-NOV-2008 06:20:26; Dark ; 71.0; 23; 21Eps CMa ; 1.50; 26000;occ; 142; 0;35230
 8; 1221.8; 25-NOV-2008 06:22:42; Dark ; 83.0; 179; 240mi2CMa ; 3.03; 24000;occ; 166; 0;35230
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13; 2265.3; 25-NOV-2008 06:40:05; Bright; 53.5; 13; 87Alp Tau ; 0.87; 3800;occ; 107; 0;35230
14; 2639.0; 25-NOV-2008 06:46:19; Bright; 48.0; 114; 3Iot Aur ; 2.69; 4600;occ; 96; 0;35230
15; 2905.3; 25-NOV-2008 06:50:45; Bright; 48.5; 6; 13Alp Aur ; 0.08; 3400;occ; 97; 0;35230
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 4; 129.0; 25-NOV-2008 07:45:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35231
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 6; 848.9; 25-NOV-2008 07:57:05; Dark ; 59.5; 117; Pi Pup ; 2.71; 3800;occ; 119; 0;35231
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 8; 1222.4; 25-NOV-2008 08:03:18; Dark ; 81.0; 179; 240mi2CMa ; 3.03; 24000;occ; 162; 0;35231
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 4; 2264.9; 25-NOV-2008 08:20:41; Bright; 53.5; 13; 87Alp Tau ; 0.87; 3800;occ; 107; 0;35231
 5; 2638.2; 25-NOV-2008 08:26:54; Bright; 48.5; 114; 3Iot Aur ; 2.69; 4600;occ; 97; 0;35231
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 7; 3038.4; 25-NOV-2008 08:33:34; Bright; 54.5; 42; 34Bet Aur ; 1.90; 10200;occ; 109; 0;35231
 8; 4204.4; 25-NOV-2008 08:53:00; Bright; 49.0; 174; 52Psi UMa ; 3.00; 4400;occ; 98; 0;35231
 9; 4808.5; 25-NOV-2008 09:03:05; Bright; 59.5; 96; 68Del Leo ; 2.56; 9300;occ; 119; 0;35231
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12; 6663.1; 25-NOV-2008 09:33:59; Dark ; 53.5; 70; Zet Pup ; 2.25; 39000;occ; 107; 0;35231
13; 6885.7; 25-NOV-2008 09:37:42; Dark ; 58.5; 117; Pi Pup ; 2.71; 3800;occ; 117; 0;35231
14; 7123.4; 25-NOV-2008 09:41:39; Dark ; 73.5; 23; 21Eps CMa ; 1.50; 26000;occ; 147; 0;35231
15; 7259.0; 25-NOV-2008 09:43:55; Dark ; 82.0; 179; 240mi2CMa ; 3.03; 24000;occ; 164; 0;35231
16; 7556.2; 25-NOV-2008 09:48:52; Dark ; 109.5; 1; 9Alp CMa ; -1.44; 11000;occ; 219; 0;35231
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 2; 1971.0; 25-NOV-2008 09:56:23; Dark ; 68.5; 30; 46Eps Ori ; 1.69; 30000;occ; 137; 0;35232
 3; 2146.6; 25-NOV-2008 09:59:18; Dark ; 67.0; 27; 24Gam Ori ; 1.64; 26000;occ; 134; 0;35232
 4; 2264.4; 25-NOV-2008 10:01:16; Bright; 51.0; 13; 87Alp Tau ; 0.87; 3800;occ; 102; 0;35232
 5; 2637.5; 25-NOV-2008 10:07:29; Bright; 50.0; 114; 3Iot Aur ; 2.69; 4600;occ; 100; 0;35232
 6; 2903.7; 25-NOV-2008 10:11:56; Bright; 52.5; 6; 13Alp Aur ; 0.08; 3400;occ; 105; 0;35232
 7; 3037.4; 25-NOV-2008 10:14:09; Bright; 54.5; 42; 34Bet Aur ; 1.90; 10200;occ; 109; 0;35232
 8; 4204.2; 25-NOV-2008 10:33:36; Bright; 47.5; 174; 52Psi UMa ; 3.00; 4400;occ; 95; 0;35232
 9; 4809.2; 25-NOV-2008 10:43:41; Bright; 58.5; 96; 68Del Leo ; 2.56; 9300;occ; 117; 0;35232
10; 5027.2; 25-NOV-2008 10:47:19; Dark ; 48.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 96; 0;35232
11; 6170.0; 25-NOV-2008 11:06:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35232
12; 6664.3; 25-NOV-2008 11:14:36; Dark ; 53.5; 70; Zet Pup ; 2.25; 39000;occ; 107; 0;35232
13; 6886.6; 25-NOV-2008 11:18:19; Dark ; 60.5; 117; Pi Pup ; 2.71; 3800;occ; 121; 0;35232
14; 7124.4; 25-NOV-2008 11:22:16; Dark ; 69.0; 23; 21Eps CMa ; 1.50; 26000;occ; 138; 0;35232
15; 7259.9; 25-NOV-2008 11:24:32; Dark ; 77.0; 179; 240mi2CMa ; 3.03; 24000;occ; 154; 0;35232
16; 7556.3; 25-NOV-2008 11:29:28; Dark ; 115.5; 1; 9Alp CMa ; -1.44; 11000;occ; 231; 0;35232

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3; 1970.4; 25-NOV-2008 11:36:58; Dark ; 73.0; 30; 46Eps Ori ; 1.69; 30000;occ; 146; 0;35233
4; 2145.9; 25-NOV-2008 11:39:54; Dark ; 74.0; 27; 24Gam Ori ; 1.64; 26000;occ; 148; 0;35233
5; 2263.8; 25-NOV-2008 11:41:52; Bright; 53.0; 13; 87Alp Tau ; 0.87; 3800;occ; 106; 0;35233
6; 2636.7; 25-NOV-2008 11:48:05; Bright; 49.5; 114; 3Iot Aur ; 2.69; 4600;occ; 99; 0;35233
7; 2902.9; 25-NOV-2008 11:52:31; Bright; 48.5; 6; 13Alp Aur ; 0.08; 3400;occ; 97; 0;35233
8; 3036.2; 25-NOV-2008 11:54:44; Bright; 54.5; 42; 34Bet Aur ; 1.90; 10200;occ; 109; 0;35233
9; 4203.9; 25-NOV-2008 12:14:12; Bright; 47.5; 174; 52Psi UMa ; 3.00; 4400;occ; 95; 0;35233
10; 4809.7; 25-NOV-2008 12:24:18; Bright; 59.5; 96; 68Del Leo ; 2.56; 9300;occ; 119; 0;35233
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13; 6665.5; 25-NOV-2008 12:55:13; Dark ; 55.0; 70; Zet Pup ; 2.25; 39000;occ; 110; 0;35233
14; 6887.5; 25-NOV-2008 12:58:55; Dark ; 55.5; 117; Pi Pup ; 2.71; 3800;occ; 111; 0;35233
15; 7125.1; 25-NOV-2008 13:02:53; Dark ; 73.5; 23; 21Eps CMA ; 1.50; 26000;occ; 147; 0;35233
16; 7260.7; 25-NOV-2008 13:05:09; Dark ; 81.5; 179; 240mi2CMA ; 3.03; 24000;occ; 163; 0;35233
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2; 1227.7; 25-NOV-2008 19:47:35; Dark ; 81.5; 179; 240mi2CMA ; 3.03; 24000;occ; 163; 0;35238
3; 1521.0; 25-NOV-2008 19:52:29; Dark ; 102.0; 1; 9Alp CMA ; -1.44; 11000;occ; 204; 0;35238
4; 1760.0; 25-NOV-2008 19:56:28; Dark ; 63.5; 7; 19Bet Ori ; 0.10; 14000;occ; 127; 0;35238
5; 1967.4; 25-NOV-2008 19:59:55; Dark ; 72.0; 30; 46Eps Ori ; 1.69; 30000;occ; 144; 0;35238
6; 2142.1; 25-NOV-2008 20:02:50; Dark ; 68.0; 27; 24Gam Ori ; 1.64; 26000;occ; 136; 0;35238
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9; 2899.0; 25-NOV-2008 20:15:27; Bright; 49.5; 6; 13Alp Aur ; 0.08; 3400;occ; 99; 0;35238
10; 3030.7; 25-NOV-2008 20:17:38; Bright; 55.0; 42; 34Bet Aur ; 1.90; 10200;occ; 110; 0;35238
11; 4202.9; 25-NOV-2008 20:37:11; Bright; 52.5; 174; 52Psi UMa ; 3.00; 4400;occ; 105; 0;35238
12; 4812.8; 25-NOV-2008 20:47:20; Bright; 58.0; 96; 68Del Leo ; 2.56; 9300;occ; 116; 0;35238

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3; 856.3; 25-NOV-2008 21:22:00; Dark ; 75.0; 117; Pi Pup ; 2.71; 3800;occ; 150; 0;35239
4; 1093.4; 25-NOV-2008 21:25:57; Dark ; 75.0; 23; 21Eps CMA ; 1.50; 26000;occ; 150; 0;35239
5; 1228.5; 25-NOV-2008 21:28:12; Dark ; 79.5; 179; 240mi2CMA ; 3.03; 24000;occ; 159; 0;35239
6; 1521.3; 25-NOV-2008 21:33:05; Dark ; 107.5; 1; 9Alp CMA ; -1.44; 11000;occ; 215; 0;35239
7; 1759.7; 25-NOV-2008 21:37:03; Dark ; 62.0; 7; 19Bet Ori ; 0.10; 14000;occ; 124; 0;35239
8; 1966.8; 25-NOV-2008 21:40:30; Dark ; 72.0; 30; 46Eps Ori ; 1.69; 30000;occ; 144; 0;35239
9; 2141.2; 25-NOV-2008 21:43:25; Dark ; 86.0; 27; 24Gam Ori ; 1.64; 26000;occ; 172; 0;35239
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13; 3029.5; 25-NOV-2008 21:58:13; Bright; 56.0; 42; 34Bet Aur ; 1.90; 10200;occ; 112; 0;35239
14; 4202.8; 25-NOV-2008 22:17:46; Bright; 49.0; 174; 52Psi UMa ; 3.00; 4400;occ; 98; 0;35239
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3; 857.3; 25-NOV-2008 23:02:37; Dark ; 68.0; 117; Pi Pup ; 2.71; 3800;occ; 136; 0;35240
4; 1094.3; 25-NOV-2008 23:06:34; Dark ; 69.0; 23; 21Eps CMA ; 1.50; 26000;occ; 138; 0;35240
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8; 1966.1; 25-NOV-2008 23:21:06; Dark ; 72.0; 30; 46Eps Ori ; 1.69; 30000;occ; 144; 0;35240
9; 2140.5; 25-NOV-2008 23:24:00; Dark ; 75.0; 27; 24Gam Ori ; 1.64; 26000;occ; 150; 0;35240
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11; 2631.3; 25-NOV-2008 23:32:11; Bright; 50.0; 114; 3Iot Aur ; 2.69; 4600;occ; 100; 0;35240
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15; 4814.0; 26-NOV-2008 00:08:33; Bright; 59.5; 96; 68Del Leo ; 2.56; 9300;occ; 119; 0;35240

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3; 1969.2; 25-NOV-2008 14:58:09; Dark ; 71.5; 30; 46Eps Ori ; 1.69; 30000;occ; 143; 0;35235
4; 2144.4; 25-NOV-2008 15:01:04; Dark ; 80.0; 27; 24Gam Ori ; 1.64; 26000;occ; 160; 0;35235

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6; 2635.2; 25-NOV-2008 15:09:15; Bright; 48.5; 114; 3Iot Aur ; 2.69; 4600;occ; 97; 0;35235
7; 2901.4; 25-NOV-2008 15:13:41; Bright; 50.5; 6; 13Alp Aur ; 0.08; 3400;occ; 101; 0;35235
8; 3034.1; 25-NOV-2008 15:15:54; Bright; 54.5; 42; 34Bet Aur ; 1.90; 10200;occ; 109; 0;35235
9; 4203.9; 25-NOV-2008 15:35:24; Bright; 47.5; 174; 52Psi UMa ; 3.00; 4400;occ; 95; 0;35235
10; 4811.1; 25-NOV-2008 15:45:31; Bright; 61.5; 96; 68Del Leo ; 2.56; 9300;occ; 123; 0;35235
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6; 2131.8; 26-NOV-2008 19:31:03; Dark ; 71.5; 27; 24Gam Ori ; 1.64; 26000;occ; 143; 0;35252
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9; 2888.3; 26-NOV-2008 19:43:39; Bright; 50.0; 6; 13Alp Aur ; 0.08; 3400;occ; 100; 0;35252
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2; 1116.4; 27-NOV-2008 20:23:06; Dark ; 68.5; 23; 21Eps CMA ; 1.50; 26000;occ; 137; 0;35267
3; 1249.0; 27-NOV-2008 20:25:19; Dark ; 77.5; 179; 240mi2CMA ; 3.03; 24000;occ; 155; 0;35267

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4; 1524.9; 27-NOV-2008 20:29:55; Dark ; 99.5; 1; 9Alp CMA ; -1.44; 11000;occ; 199; 0;35267
5; 1756.5; 27-NOV-2008 20:33:46; Dark ; 63.5; 7; 19Bet Ori ; 0.10; 14000;occ; 127; 0;35267
6; 1952.1; 27-NOV-2008 20:37:02; Dark ; 71.0; 30; 46Eps Ori ; 1.69; 30000;occ; 142; 0;35267
7; 2121.8; 27-NOV-2008 20:39:52; Dark ; 65.5; 27; 24Gam Ori ; 1.64; 26000;occ; 131; 0;35267
8; 2247.3; 27-NOV-2008 20:41:57; Bright; 88.5; 14; 58Alp Ori ; 0.87; 3000;occ; 177; 0;35267
9; 2511.0; 27-NOV-2008 20:46:21; Bright; 60.5; 176; 23Zet Tau ; 3.02; 22000;occ; 121; 0;35267
10; 2877.3; 27-NOV-2008 20:52:27; Bright; 48.5; 6; 13Alp Aur ; 0.08; 3400;occ; 97; 0;35267
11; 2999.7; 27-NOV-2008 20:54:29; Bright; 53.0; 42; 34Bet Aur ; 1.90; 10200;occ; 106; 0;35267
12; 4197.4; 27-NOV-2008 21:14:27; Bright; 48.5; 174; 52Psi UMa ; 3.00; 4400;occ; 97; 0;35267
13; 4831.7; 27-NOV-2008 21:25:01; Bright; 62.5; 96; 68Del Leo ; 2.56; 9300;occ; 125; 0;35267
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2; 667.3; 27-NOV-2008 21:56:13; Dark ; 53.0; 70; Zet Pup ; 2.25; 39000;occ; 106; 0;35268
3; 883.5; 27-NOV-2008 21:59:49; Dark ; 62.0; 117; Pi Pup ; 2.71; 3800;occ; 124; 0;35268
4; 1117.1; 27-NOV-2008 22:03:43; Dark ; 70.0; 23; 21Eps CMA ; 1.50; 26000;occ; 140; 0;35268
5; 1249.7; 27-NOV-2008 22:05:55; Dark ; 73.0; 179; 240mi2CMA ; 3.03; 24000;occ; 146; 0;35268
6; 1525.0; 27-NOV-2008 22:10:31; Dark ; 104.5; 1; 9Alp CMA ; -1.44; 11000;occ; 209; 0;35268
7; 1756.4; 27-NOV-2008 22:14:22; Dark ; 59.5; 7; 19Bet Ori ; 0.10; 14000;occ; 119; 0;35268
8; 1951.7; 27-NOV-2008 22:17:37; Dark ; 68.0; 30; 46Eps Ori ; 1.69; 30000;occ; 136; 0;35268
9; 2121.1; 27-NOV-2008 22:20:27; Dark ; 62.5; 27; 24Gam Ori ; 1.64; 26000;occ; 125; 0;35268
10; 2246.1; 27-NOV-2008 22:22:32; Bright; 84.0; 14; 58Alp Ori ; 0.87; 3000;occ; 168; 0;35268
11; 2509.7; 27-NOV-2008 22:26:55; Bright; 58.0; 176; 23Zet Tau ; 3.02; 22000;occ; 116; 0;35268
12; 2876.5; 27-NOV-2008 22:33:02; Bright; 49.0; 6; 13Alp Aur ; 0.08; 3400;occ; 98; 0;35268
13; 2998.6; 27-NOV-2008 22:35:04; Bright; 53.0; 42; 34Bet Aur ; 1.90; 10200;occ; 106; 0;35268
14; 4197.0; 27-NOV-2008 22:55:03; Bright; 51.5; 174; 52Psi UMa ; 3.00; 4400;occ; 103; 0;35268
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2; 668.5; 27-NOV-2008 23:36:50; Dark ; 56.0; 70; Zet Pup ; 2.25; 39000;occ; 112; 0;35269
3; 884.4; 27-NOV-2008 23:40:26; Dark ; 57.5; 117; Pi Pup ; 2.71; 3800;occ; 115; 0;35269
4; 1117.9; 27-NOV-2008 23:44:19; Dark ; 68.5; 23; 21Eps CMA ; 1.50; 26000;occ; 137; 0;35269
5; 1250.3; 27-NOV-2008 23:46:32; Dark ; 77.5; 179; 240mi2CMA ; 3.03; 24000;occ; 155; 0;35269
6; 1525.2; 27-NOV-2008 23:51:07; Dark ; 101.5; 1; 9Alp CMA ; -1.44; 11000;occ; 203; 0;35269
7; 1756.3; 27-NOV-2008 23:54:58; Dark ; 61.5; 7; 19Bet Ori ; 0.10; 14000;occ; 123; 0;35269
8; 1951.0; 27-NOV-2008 23:58:13; Dark ; 66.5; 30; 46Eps Ori ; 1.69; 30000;occ; 133; 0;35269
9; 2120.2; 28-NOV-2008 00:01:02; Dark ; 68.0; 27; 24Gam Ori ; 1.64; 26000;occ; 136; 0;35269
10; 2244.9; 28-NOV-2008 00:03:06; Bright; 88.0; 14; 58Alp Ori ; 0.87; 3000;occ; 176; 0;35269
11; 2508.5; 28-NOV-2008 00:07:30; Bright; 60.5; 176; 23Zet Tau ; 3.02; 22000;occ; 121; 0;35269
12; 2875.7; 28-NOV-2008 00:13:37; Bright; 48.5; 6; 13Alp Aur ; 0.08; 3400;occ; 97; 0;35269
13; 2997.5; 28-NOV-2008 00:15:39; Bright; 52.0; 42; 34Bet Aur ; 1.90; 10200;occ; 104; 0;35269
14; 4196.9; 28-NOV-2008 00:35:38; Bright; 50.0; 174; 52Psi UMa ; 3.00; 4400;occ; 100; 0;35269
15; 4833.1; 28-NOV-2008 00:46:15; Bright; 65.0; 96; 68Del Leo ; 2.56; 9300;occ; 130; 0;35269
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2; -1210.2; 27-NOV-2008 06:19:32; Bright; 64.5; 96; 68Del Leo ; 2.56; 9300;occ; 129; 0;35258
3; 203.2; 27-NOV-2008 06:43:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35259
4; 657.5; 27-NOV-2008 06:50:40; Dark ; 51.5; 70; Zet Pup ; 2.25; 39000;occ; 103; 0;35259
5; 875.3; 27-NOV-2008 06:54:18; Dark ; 63.5; 117; Pi Pup ; 2.71; 3800;occ; 127; 0;35259
6; 1110.1; 27-NOV-2008 06:58:12; Dark ; 66.0; 23; 21Eps CMA ; 1.50; 26000;occ; 132; 0;35259
7; 1243.2; 27-NOV-2008 07:00:25; Dark ; 76.0; 179; 240mi2CMA ; 3.03; 24000;occ; 152; 0;35259
8; 1523.8; 27-NOV-2008 07:05:06; Dark ; 104.5; 1; 9Alp CMA ; -1.44; 11000;occ; 209; 0;35259
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2; 1956.1; 27-NOV-2008 07:12:18; Dark ; 67.0; 30; 46Eps Ori ; 1.69; 30000;occ; 134; 0;35259
3; 2127.1; 27-NOV-2008 07:15:09; Dark ; 67.5; 27; 24Gam Ori ; 1.64; 26000;occ; 135; 0;35259
4; 2257.5; 27-NOV-2008 07:17:20; Bright; 86.0; 14; 58Alp Ori ; 0.87; 3000;occ; 172; 0;35259
5; 2617.6; 27-NOV-2008 07:23:20; Bright; 48.5; 114; 3Iot Aur ; 2.69; 4600;occ; 97; 0;35259
6; 2883.1; 27-NOV-2008 07:27:45; Bright; 49.5; 6; 13Alp Aur ; 0.08; 3400;occ; 99; 0;35259
7; 3008.1; 27-NOV-2008 07:29:50; Bright; 79.0; 42; 34Bet Aur ; 1.90; 10200;occ; 158; 0;35259
8; 4199.0; 27-NOV-2008 07:49:41; Bright; 50.5; 174; 52Psi UMa ; 3.00; 4400;occ; 101; 0;35259
9; 4826.5; 27-NOV-2008 08:00:09; Bright; 63.5; 96; 68Del Leo ; 2.56; 9300;occ; 127; 0;35259
10; 6241.8; 27-NOV-2008 08:23:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35259
11; 6694.5; 27-NOV-2008 08:31:17; Dark ; 55.0; 70; Zet Pup ; 2.25; 39000;occ; 110; 0;35259
12; 6912.2; 27-NOV-2008 08:34:54; Dark ; 59.0; 117; Pi Pup ; 2.71; 3800;occ; 118; 0;35259
13; 7146.9; 27-NOV-2008 08:38:49; Dark ; 69.5; 23; 21Eps CMA ; 1.50; 26000;occ; 139; 0;35259
14; 7280.0; 27-NOV-2008 08:41:02; Dark ; 77.0; 179; 240mi2CMA ; 3.03; 24000;occ; 154; 0;35259
15; 7560.0; 27-NOV-2008 08:45:42; Dark ; 108.5; 1; 9Alp CMA ; -1.44; 11000;occ; 217; 0;35259
16; 7793.2; 27-NOV-2008 08:49:35; Dark ; 63.5; 7; 19Bet Ori ; 0.10; 14000;occ; 127; 0;35259

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 2; 1955.6; 27-NOV-2008 08:52:54; Dark ; 65.5; 30; 46Eps Ori ; 1.69; 30000;occ; 131; 0;35260
 3; 2126.4; 27-NOV-2008 08:55:45; Dark ; 74.0; 27; 24Gam Ori ; 1.64; 26000;occ; 148; 0;35260
 4; 2256.1; 27-NOV-2008 08:57:54; Bright; 86.5; 14; 58Alp Ori ; 0.87; 3000;occ; 173; 0;35260
 5; 2616.9; 27-NOV-2008 09:03:55; Bright; 49.0; 114; 3Iot Aur ; 2.69; 4600;occ; 98; 0;35260
 6; 2882.4; 27-NOV-2008 09:08:21; Bright; 48.0; 6; 13Alp Aur ; 0.08; 3400;occ; 96; 0;35260
 7; 3007.0; 27-NOV-2008 09:10:25; Bright; 53.0; 42; 34Bet Aur ; 1.90; 10200;occ; 106; 0;35260
 8; 4198.8; 27-NOV-2008 09:30:17; Bright; 49.5; 174; 52Psi UMa ; 3.00; 4400;occ; 99; 0;35260
 9; 4827.1; 27-NOV-2008 09:40:45; Bright; 64.5; 96; 68Del Leo ; 2.56; 9300;occ; 129; 0;35260
 10; 6244.5; 27-NOV-2008 10:04:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35260
 11; 6695.4; 27-NOV-2008 10:11:54; Dark ; 53.0; 70; Zet Pup ; 2.25; 39000;occ; 106; 0;35260
 12; 6913.0; 27-NOV-2008 10:15:31; Dark ; 62.5; 117; Pi Pup ; 2.71; 3800;occ; 125; 2;35260
 13; 7147.5; 27-NOV-2008 10:19:26; Dark ; 69.5; 23; 21Eps CMA ; 1.50; 26000;occ; 139; 0;35260
 14; 7280.6; 27-NOV-2008 10:21:39; Dark ; 76.5; 179; 240mi2CMA ; 3.03; 24000;occ; 153; 0;35260
 15; 7560.0; 27-NOV-2008 10:26:18; Dark ; 102.0; 1; 9Alp CMA ; -1.44; 11000;occ; 204; 0;35260

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 2; 1955.1; 27-NOV-2008 10:33:29; Dark ; 65.0; 30; 46Eps Ori ; 1.69; 30000;occ; 130; 0;35261
 3; 2125.6; 27-NOV-2008 10:36:20; Dark ; 72.0; 27; 24Gam Ori ; 1.64; 26000;occ; 144; 0;35261
 4; 2254.8; 27-NOV-2008 10:38:29; Bright; 87.0; 14; 58Alp Ori ; 0.87; 3000;occ; 174; 0;35261
 5; 2616.2; 27-NOV-2008 10:44:30; Bright; 48.5; 114; 3Iot Aur ; 2.69; 4600;occ; 97; 0;35261
 6; 2881.6; 27-NOV-2008 10:48:56; Bright; 49.5; 6; 13Alp Aur ; 0.08; 3400;occ; 99; 0;35261
 7; 3005.9; 27-NOV-2008 10:51:00; Bright; 50.5; 42; 34Bet Aur ; 1.90; 10200;occ; 101; 0;35261
 8; 4198.6; 27-NOV-2008 11:10:53; Bright; 50.0; 174; 52Psi UMa ; 3.00; 4400;occ; 100; 0;35261
 9; 4827.7; 27-NOV-2008 11:21:22; Bright; 62.5; 96; 68Del Leo ; 2.56; 9300;occ; 125; 0;35261
 10; 6247.2; 27-NOV-2008 11:45:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35261
 11; 6696.7; 27-NOV-2008 11:52:31; Dark ; 56.0; 70; Zet Pup ; 2.25; 39000;occ; 112; 0;35261
 12; 6913.9; 27-NOV-2008 11:56:08; Dark ; 55.0; 117; Pi Pup ; 2.71; 3800;occ; 110; 0;35261
 13; 7148.2; 27-NOV-2008 12:00:02; Dark ; 70.5; 23; 21Eps CMA ; 1.50; 26000;occ; 141; 0;35261
 14; 7281.3; 27-NOV-2008 12:02:15; Dark ; 78.0; 179; 240mi2CMA ; 3.03; 24000;occ; 156; 0;35261
 15; 7560.3; 27-NOV-2008 12:06:54; Dark ; 101.5; 1; 9Alp CMA ; -1.44; 11000;occ; 203; 0;35261

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 3; 1954.6; 27-NOV-2008 12:14:04; Dark ; 65.5; 30; 46Eps Ori ; 1.69; 30000;occ; 131; 0;35262
 4; 2125.0; 27-NOV-2008 12:16:55; Dark ; 65.0; 27; 24Gam Ori ; 1.64; 26000;occ; 130; 0;35262
 5; 2253.6; 27-NOV-2008 12:19:04; Bright; 86.0; 14; 58Alp Ori ; 0.87; 3000;occ; 172; 0;35262
 6; 2615.5; 27-NOV-2008 12:25:05; Bright; 48.5; 114; 3Iot Aur ; 2.69; 4600;occ; 97; 0;35262
 7; 2880.8; 27-NOV-2008 12:29:31; Bright; 51.5; 6; 13Alp Aur ; 0.08; 3400;occ; 103; 0;35262
 8; 3004.9; 27-NOV-2008 12:31:35; Bright; 53.0; 42; 34Bet Aur ; 1.90; 10200;occ; 106; 0;35262
 9; 4198.4; 27-NOV-2008 12:51:28; Bright; 48.5; 174; 52Psi UMa ; 3.00; 4400;occ; 97; 0;35262
 10; 4828.2; 27-NOV-2008 13:01:58; Bright; 64.0; 96; 68Del Leo ; 2.56; 9300;occ; 128; 0;35262
 11; 6250.0; 27-NOV-2008 13:25:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35262
 12; 6697.8; 27-NOV-2008 13:33:08; Dark ; 55.5; 70; Zet Pup ; 2.25; 39000;occ; 111; 0;35262
 13; 6914.9; 27-NOV-2008 13:36:45; Dark ; 57.5; 117; Pi Pup ; 2.71; 3800;occ; 115; 0;35262
 14; 7149.1; 27-NOV-2008 13:40:39; Dark ; 68.5; 23; 21Eps CMA ; 1.50; 26000;occ; 137; 0;35262
 15; 7282.1; 27-NOV-2008 13:42:52; Dark ; 79.5; 179; 240mi2CMA ; 3.03; 24000;occ; 159; 0;35262
 16; 7560.4; 27-NOV-2008 13:47:30; Dark ; 49.0; 1; 9Alp CMA ; -1.44; 11000;occ; 98; 0;35262

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 2; 1757.0; 27-NOV-2008 13:51:23; Dark ; 60.0; 7; 19Bet Ori ; 0.10; 14000;occ; 120; 0;35263
 3; 1954.2; 27-NOV-2008 13:54:40; Dark ; 64.0; 30; 46Eps Ori ; 1.69; 30000;occ; 128; 0;35263
 4; 2124.4; 27-NOV-2008 13:57:30; Dark ; 65.5; 27; 24Gam Ori ; 1.64; 26000;occ; 131; 0;35263
 5; 2252.3; 27-NOV-2008 13:59:38; Bright; 85.5; 14; 58Alp Ori ; 0.87; 3000;occ; 171; 0;35263
 6; 2614.7; 27-NOV-2008 14:05:40; Bright; 48.0; 114; 3Iot Aur ; 2.69; 4600;occ; 96; 0;35263
 7; 2880.2; 27-NOV-2008 14:10:06; Bright; 49.5; 6; 13Alp Aur ; 0.08; 3400;occ; 99; 0;35263
 8; 3003.8; 27-NOV-2008 14:12:10; Bright; 53.5; 42; 34Bet Aur ; 1.90; 10200;occ; 107; 0;35263
 9; 4198.4; 27-NOV-2008 14:32:04; Bright; 51.0; 174; 52Psi UMa ; 3.00; 4400;occ; 102; 0;35263
 10; 4828.8; 27-NOV-2008 14:42:35; Bright; 66.0; 96; 68Del Leo ; 2.56; 9300;occ; 132; 0;35263
 11; 6252.8; 27-NOV-2008 15:06:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35263
 12; 6698.8; 27-NOV-2008 15:13:45; Dark ; 53.5; 70; Zet Pup ; 2.25; 39000;occ; 107; 0;35263
 13; 6915.9; 27-NOV-2008 15:17:22; Dark ; 63.5; 117; Pi Pup ; 2.71; 3800;occ; 127; 0;35263
 14; 7150.0; 27-NOV-2008 15:21:16; Dark ; 69.0; 23; 21Eps CMA ; 1.50; 26000;occ; 138; 0;35263
 15; 7282.9; 27-NOV-2008 15:23:29; Dark ; 74.5; 179; 240mi2CMA ; 3.03; 24000;occ; 149; 0;35263

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1; 1524.6; 27-NOV-2008 15:28:06; Dark ; 97.0; 1; 9Alp CMA ; -1.44; 11000;occ; 194; 0;35264
 2; 1756.9; 27-NOV-2008 15:31:59; Dark ; 66.0; 7; 19Bet Ori ; 0.10; 14000;occ; 132; 0;35264


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4; 2123.7; 27-NOV-2008 15:38:05; Dark ; 63.5; 27; 24Gam Ori ; 1.64; 26000;occ; 127; 0;35264
5; 2251.1; 27-NOV-2008 15:40:13; Bright; 87.5; 14; 58Alp Ori ; 0.87; 3000;occ; 175; 0;35264
6; 2514.6; 27-NOV-2008 15:44:36; Bright; 60.5; 176; 23Zet Tau ; 3.02; 22000;occ; 121; 0;35264
7; 2879.5; 27-NOV-2008 15:50:41; Bright; 49.5; 6; 13Alp Aur ; 0.08; 3400;occ; 99; 0;35264
8; 3002.8; 27-NOV-2008 15:52:45; Bright; 53.5; 42; 34Bet Aur ; 1.90; 10200;occ; 107; 0;35264
9; 4198.2; 27-NOV-2008 16:12:40; Bright; 48.0; 174; 52Psi UMa ; 3.00; 4400;occ; 96; 0;35264
10; 4829.9; 27-NOV-2008 16:23:12; Bright; 63.5; 96; 68Del Leo ; 2.56; 9300;occ; 127; 0;35264
11; 6255.6; 27-NOV-2008 16:46:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35264
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13; 6916.8; 27-NOV-2008 16:57:59; Dark ; 65.0; 117; Pi Pup ; 2.71; 3800;occ; 130; 0;35264
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2; 1248.3; 27-NOV-2008 18:44:42; Dark ; 77.0; 179; 240mi2CMA ; 3.03; 24000;occ; 154; 0;35266
3; 1524.9; 27-NOV-2008 18:49:19; Dark ; 101.5; 1; 9Alp CMA ; -1.44; 11000;occ; 203; 0;35266
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5; 1952.4; 27-NOV-2008 18:56:26; Dark ; 70.0; 30; 46Eps Ori ; 1.69; 30000;occ; 140; 0;35266
6; 2122.3; 27-NOV-2008 18:59:16; Dark ; 78.5; 27; 24Gam Ori ; 1.64; 26000;occ; 157; 0;35266
7; 2248.6; 27-NOV-2008 19:01:22; Bright; 86.0; 14; 58Alp Ori ; 0.87; 3000;occ; 172; 0;35266
8; 2512.0; 27-NOV-2008 19:05:46; Bright; 59.5; 176; 23Zet Tau ; 3.02; 22000;occ; 119; 0;35266
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11; 4197.5; 27-NOV-2008 19:33:51; Bright; 51.5; 174; 52Psi UMa ; 3.00; 4400;occ; 103; 0;35266
12; 4831.0; 27-NOV-2008 19:44:25; Bright; 65.0; 96; 68Del Leo ; 2.56; 9300;occ; 130; 0;35266
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10; 399.6; 30-NOV-2008 03:30:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35300
11; 597.7; 30-NOV-2008 03:34:13; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;35300
12; 701.8; 30-NOV-2008 03:35:57; Dark ; 54.5; 70; Zet Pup ; 2.25; 39000;occ; 109; 0;35300
13; 911.8; 30-NOV-2008 03:39:27; Dark ; 60.5; 117; Pi Pup ; 2.71; 3800;occ; 121; 0;35300
14; 1057.3; 30-NOV-2008 03:41:53; Dark ; 37.0; 88; 31Eta CMa ; 2.45; 20000;occ; 74; 0;35300
15; 1141.1; 30-NOV-2008 03:43:17; Dark ; 68.5; 23; 21Eps CMa ; 1.50; 26000;occ; 137; 0;35300
16; 1534.9; 30-NOV-2008 03:49:50; Dark ; 53.0; 101; 11Alp Lep ; 2.58; 7000;occ; 106; 0;35300
17; 1753.4; 30-NOV-2008 03:53:29; Dark ; 58.0; 7; 19Bet Ori ; 0.10; 14000;occ; 116; 0;35300
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19; 2101.7; 30-NOV-2008 03:59:17; Dark ; 64.0; 27; 24Gam Ori ; 1.64; 26000;occ; 128; 0;35300
20; 2235.5; 30-NOV-2008 04:01:31; Bright; 53.0; 13; 87Alp Tau ; 0.87; 3800;occ; 106; 0;35300
21; 2473.0; 30-NOV-2008 04:05:28; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;35300
22; 2619.1; 30-NOV-2008 04:07:55; Bright; 38.5; 149; 45Eps Per ; 2.89; 30000;occ; 77; 0;35300
23; 2854.1; 30-NOV-2008 04:11:50; Bright; 49.5; 6; 13Alp Aur ; 0.08; 3400;occ; 99; 0;35300
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2;-2115.6; 30-NOV-2008 06:10:12; Bright; 43.0; 82; 48Bet UMA ; 2.37; 10600;occ; 86; 0;35301
3;-2020.5; 30-NOV-2008 06:11:47; Bright; 36.5; 32; 77Eps UMA ; 1.76; 11000;occ; 73; 0;35301
4;-1846.4; 30-NOV-2008 06:14:41; Bright; 52.0; 174; 52Psi UMA ; 3.00; 4400;occ; 104; 0;35301
5;-1688.3; 30-NOV-2008 06:17:19; Bright; 37.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 74; 0;35301
6;-1118.2; 30-NOV-2008 06:26:49; Bright; 55.5; 62; 94Bet Leo ; 2.14; 9700;occ; 111; 0;35301
7;-919.8; 30-NOV-2008 06:30:08; Bright; 45.5; 121; 29Gam Vir ; 2.74; 7200;occ; 91; 0;35301
8; -581.4; 30-NOV-2008 06:35:46; Dark ; 46.5; 100; 4Gam Crv ; 2.58; 13100;occ; 93; 0;35301
9; -486.0; 30-NOV-2008 06:37:21; Dark ; 48.5; 171; 2Eps Crv ; 3.00; 4250;occ; 97; 0;35301
10; 401.2; 30-NOV-2008 06:52:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35302
11; 599.4; 30-NOV-2008 06:55:27; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;35302
12; 703.8; 30-NOV-2008 06:57:11; Dark ; 55.0; 70; Zet Pup ; 2.25; 39000;occ; 110; 0;35302
13; 913.5; 30-NOV-2008 07:00:41; Dark ; 59.5; 117; Pi Pup ; 2.71; 3800;occ; 119; 0;35302
14; 1059.3; 30-NOV-2008 07:03:07; Dark ; 40.0; 88; 31Eta CMa ; 2.45; 20000;occ; 80; 0;35302
15; 1142.5; 30-NOV-2008 07:04:30; Dark ; 61.5; 23; 21Eps CMa ; 1.50; 26000;occ; 123; 0;35302
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3; 2100.7; 30-NOV-2008 07:20:28; Dark ; 60.5; 27; 24Gam Ori ; 1.64; 26000;occ; 121; 0;35302
4; 2234.8; 30-NOV-2008 07:22:42; Bright; 53.0; 13; 87Alp Tau ; 0.87; 3800;occ; 106; 0;35302
5; 2472.6; 30-NOV-2008 07:26:40; Bright; 37.0; 150; 44Zet Per ; 2.89; 28000;occ; 74; 0;35302
6; 2618.6; 30-NOV-2008 07:29:06; Bright; 37.0; 149; 45Eps Per ; 2.89; 30000;occ; 74; 0;35302
7; 2852.8; 30-NOV-2008 07:33:00; Bright; 47.5; 6; 13Alp Aur ; 0.08; 3400;occ; 95; 0;35302
8; 2964.4; 30-NOV-2008 07:34:52; Bright; 76.0; 42; 34Bet Aur ; 1.90; 10200;occ; 152; 0;35302
9; 3823.7; 30-NOV-2008 07:49:11; Bright; 45.0; 36; 50Alp UMA ; 1.80; 6300;occ; 90; 0;35302
10; 3920.0; 30-NOV-2008 07:50:47; Bright; 44.5; 82; 48Bet UMA ; 2.37; 10600;occ; 89; 0;35302
11; 4015.4; 30-NOV-2008 07:52:23; Bright; 38.5; 32; 77Eps UMA ; 1.76; 11000;occ; 77; 0;35302
12; 4189.4; 30-NOV-2008 07:55:17; Bright; 63.5; 174; 52Psi UMA ; 3.00; 4400;occ; 127; 0;35302
13; 4347.7; 30-NOV-2008 07:57:55; Bright; 37.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 74; 0;35302
14; 4918.3; 30-NOV-2008 08:07:26; Bright; 56.5; 62; 94Bet Leo ; 2.14; 9700;occ; 113; 0;35302
15; 5116.6; 30-NOV-2008 08:10:44; Bright; 43.0; 121; 29Gam Vir ; 2.74; 7200;occ; 86; 0;35302
16; 5455.4; 30-NOV-2008 08:16:23; Dark ; 44.5; 100; 4Gam Crv ; 2.58; 13100;occ; 89; 0;35302
17; 5550.8; 30-NOV-2008 08:17:58; Dark ; 49.0; 171; 2Eps Crv ; 3.00; 4250;occ; 98; 0;35302
18; 6438.0; 30-NOV-2008 08:32:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35302
19; 6636.3; 30-NOV-2008 08:36:04; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;35302
20; 6740.8; 30-NOV-2008 08:37:48; Dark ; 54.5; 70; Zet Pup ; 2.25; 39000;occ; 109; 0;35302
21; 6950.3; 30-NOV-2008 08:41:18; Dark ; 60.0; 117; Pi Pup ; 2.71; 3800;occ; 120; 0;35302
22; 7096.1; 30-NOV-2008 08:43:44; Dark ; 40.0; 88; 31Eta CMa ; 2.45; 20000;occ; 80; 0;35302
23; 7179.1; 30-NOV-2008 08:45:07; Dark ; 66.0; 23; 21Eps CMa ; 1.50; 26000;occ; 132; 0;35302
24; 7571.1; 30-NOV-2008 08:51:39; Dark ; 53.0; 101; 11Alp Lep ; 2.58; 7000;occ; 106; 0;35302
25; 7788.9; 30-NOV-2008 08:55:16; Dark ; 15.0; 7; 19Bet Ori ; 0.10; 14000;occ; 30; 0;35302
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2; 1936.0; 30-NOV-2008 08:58:19; Dark ; 62.5; 30; 46Eps Ori ; 1.69; 30000;occ; 125; 0;35303
3; 2100.0; 30-NOV-2008 09:01:03; Dark ; 61.0; 27; 24Gam Ori ; 1.64; 26000;occ; 122; 0;35303
4; 2234.5; 30-NOV-2008 09:03:18; Bright; 51.5; 13; 87Alp Tau ; 0.87; 3800;occ; 103; 0;35303
5; 2472.2; 30-NOV-2008 09:07:16; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;35303
6; 2618.1; 30-NOV-2008 09:09:41; Bright; 38.0; 149; 45Eps Per ; 2.89; 30000;occ; 76; 0;35303
7; 2852.2; 30-NOV-2008 09:13:36; Bright; 49.0; 6; 13Alp Aur ; 0.08; 3400;occ; 98; 0;35303

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9; 3823.3; 30-NOV-2008 09:29:47; Bright; 47.5; 36; 50Alp UMa ; 1.80; 6300;occ; 95; 0;35303
10; 3919.8; 30-NOV-2008 09:31:23; Bright; 47.0; 82; 48Bet UMa ; 2.37; 10600;occ; 94; 0;35303
11; 4015.3; 30-NOV-2008 09:32:59; Bright; 38.0; 32; 77Eps UMa ; 1.76; 11000;occ; 76; 0;35303
12; 4189.1; 30-NOV-2008 09:35:52; Bright; 50.5; 174; 52Psi UMa ; 3.00; 4400;occ; 101; 0;35303
13; 4347.9; 30-NOV-2008 09:38:31; Bright; 39.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 78; 0;35303
14; 4919.1; 30-NOV-2008 09:48:02; Bright; 57.0; 62; 94Bet Leo ; 2.14; 9700;occ; 114; 0;35303
15; 5117.3; 30-NOV-2008 09:51:21; Bright; 43.5; 121; 29Gam Vir ; 2.74; 7200;occ; 87; 0;35303
16; 5456.0; 30-NOV-2008 09:56:59; Dark ; 47.0; 100; 4Gam Crv ; 2.58; 13100;occ; 94; 0;35303
17; 5551.6; 30-NOV-2008 09:58:35; Dark ; 46.5; 171; 2Eps Crv ; 3.00; 4250;occ; 93; 0;35303
18; 6438.8; 30-NOV-2008 10:13:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35303
19; 6637.1; 30-NOV-2008 10:16:40; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;35303
20; 6741.8; 30-NOV-2008 10:18:25; Dark ; 53.0; 70; Zet Pup ; 2.25; 39000;occ; 106; 0;35303
21; 6951.2; 30-NOV-2008 10:21:55; Dark ; 63.5; 117; Pi Pup ; 2.71; 3800;occ; 127; 0;35303
22; 7096.9; 30-NOV-2008 10:24:20; Dark ; 42.0; 88; 31Eta CMA ; 2.45; 20000;occ; 84; 0;35303
23; 7179.8; 30-NOV-2008 10:25:43; Dark ; 64.5; 23; 21Eps CMA ; 1.50; 26000;occ; 129; 0;35303
24; 7571.2; 30-NOV-2008 10:32:15; Dark ; 55.0; 101; 11Alp Lep ; 2.58; 7000;occ; 110; 0;35303
25; 7788.8; 30-NOV-2008 10:35:52; Dark ; 3.0; 7; 19Bet Ori ; 0.10; 14000;occ; 6; 0;35303

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2; 1935.6; 30-NOV-2008 10:38:55; Dark ; 62.5; 30; 46Eps Ori ; 1.69; 30000;occ; 125; 0;35304
3; 2099.5; 30-NOV-2008 10:41:39; Dark ; 60.0; 27; 24Gam Ori ; 1.64; 26000;occ; 120; 0;35304
4; 2234.1; 30-NOV-2008 10:43:53; Bright; 56.0; 13; 87Alp Tau ; 0.87; 3800;occ; 112; 0;35304
5; 2472.1; 30-NOV-2008 10:47:51; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;35304
6; 2617.9; 30-NOV-2008 10:50:17; Bright; 37.5; 149; 45Eps Per ; 2.89; 30000;occ; 75; 0;35304
7; 2851.5; 30-NOV-2008 10:54:11; Bright; 46.5; 6; 13Alp Aur ; 0.08; 3400;occ; 93; 0;35304
8; 2962.5; 30-NOV-2008 10:56:02; Bright; 50.0; 42; 34Bet Aur ; 1.90; 10200;occ; 100; 0;35304
9; 3822.9; 30-NOV-2008 11:10:22; Bright; 43.5; 36; 50Alp UMa ; 1.80; 6300;occ; 87; 0;35304
10; 3919.4; 30-NOV-2008 11:11:59; Bright; 47.5; 82; 48Bet UMa ; 2.37; 10600;occ; 95; 0;35304
11; 4015.2; 30-NOV-2008 11:13:34; Bright; 39.5; 32; 77Eps UMa ; 1.76; 11000;occ; 79; 0;35304
12; 4188.8; 30-NOV-2008 11:16:28; Bright; 55.0; 174; 52Psi UMa ; 3.00; 4400;occ; 110; 0;35304
13; 4347.9; 30-NOV-2008 11:19:07; Bright; 39.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 79; 0;35304
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15; 5117.9; 30-NOV-2008 11:31:57; Bright; 42.5; 121; 29Gam Vir ; 2.74; 7200;occ; 85; 0;35304
16; 5456.8; 30-NOV-2008 11:37:36; Dark ; 45.5; 100; 4Gam Crv ; 2.58; 13100;occ; 91; 0;35304
17; 5552.4; 30-NOV-2008 11:39:12; Dark ; 45.0; 171; 2Eps Crv ; 3.00; 4250;occ; 90; 0;35304
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20; 6742.9; 30-NOV-2008 11:59:02; Dark ; 52.5; 70; Zet Pup ; 2.25; 39000;occ; 105; 0;35304
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22; 7097.7; 30-NOV-2008 12:04:57; Dark ; 42.0; 88; 31Eta CMA ; 2.45; 20000;occ; 84; 0;35304
23; 7180.5; 30-NOV-2008 12:06:20; Dark ; 68.5; 23; 21Eps CMA ; 1.50; 26000;occ; 137; 0;35304

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3; 1935.2; 30-NOV-2008 12:19:30; Dark ; 57.5; 30; 46Eps Ori ; 1.69; 30000;occ; 115; 0;35305
4; 2099.0; 30-NOV-2008 12:22:14; Dark ; 60.0; 27; 24Gam Ori ; 1.64; 26000;occ; 120; 0;35305
5; 2233.8; 30-NOV-2008 12:24:29; Bright; 53.5; 13; 87Alp Tau ; 0.87; 3800;occ; 107; 0;35305
6; 2471.8; 30-NOV-2008 12:28:27; Bright; 36.5; 150; 44Zet Per ; 2.89; 28000;occ; 73; 0;35305
7; 2617.7; 30-NOV-2008 12:30:53; Bright; 36.5; 149; 45Eps Per ; 2.89; 30000;occ; 73; 0;35305
8; 2850.8; 30-NOV-2008 12:34:46; Bright; 48.5; 6; 13Alp Aur ; 0.08; 3400;occ; 97; 0;35305
9; 2961.5; 30-NOV-2008 12:36:37; Bright; 52.0; 42; 34Bet Aur ; 1.90; 10200;occ; 104; 0;35305
10; 3822.6; 30-NOV-2008 12:50:58; Bright; 45.0; 36; 50Alp UMa ; 1.80; 6300;occ; 90; 0;35305
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13; 4188.7; 30-NOV-2008 12:57:04; Bright; 51.5; 174; 52Psi UMa ; 3.00; 4400;occ; 103; 0;35305
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16; 5118.4; 30-NOV-2008 13:12:34; Bright; 43.0; 121; 29Gam Vir ; 2.74; 7200;occ; 86; 0;35305
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21; 6743.8; 30-NOV-2008 13:39:39; Dark ; 54.5; 70; Zet Pup ; 2.25; 39000;occ; 109; 0;35305
22; 6952.9; 30-NOV-2008 13:43:08; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;35305
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 5; 2233.5; 30-NOV-2008 14:05:04; Bright; 55.5; 13; 87Alp Tau ; 0.87; 3800;occ; 111; 0;35306
 6; 2471.6; 30-NOV-2008 14:09:03; Bright; 37.5; 150; 44Zet Per ; 2.89; 28000;occ; 75; 0;35306
 7; 2617.5; 30-NOV-2008 14:11:28; Bright; 38.0; 149; 45Eps Per ; 2.89; 30000;occ; 76; 0;35306
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 9; 2960.7; 30-NOV-2008 14:17:12; Bright; 50.5; 42; 34Bet Aur ; 1.90; 10200;occ; 101; 0;35306
 10; 3822.5; 30-NOV-2008 14:31:33; Bright; 45.0; 36; 50Alp UMa ; 1.80; 6300;occ; 90; 0;35306
 11; 3918.8; 30-NOV-2008 14:33:10; Bright; 47.0; 82; 48Bet UMa ; 2.37; 10600;occ; 94; 0;35306
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 13; 4188.5; 30-NOV-2008 14:37:39; Bright; 54.0; 174; 52Psi UMa ; 3.00; 4400;occ; 108; 0;35306
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 17; 5458.4; 30-NOV-2008 14:58:49; Dark ; 45.5; 100; 4Gam Crv ; 2.58; 13100;occ; 91; 0;35306
 18; 5554.1; 30-NOV-2008 15:00:25; Dark ; 46.5; 171; 2Eps Crv ; 3.00; 4250;occ; 93; 0;35306
 19; 6441.4; 30-NOV-2008 15:15:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35306
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 21; 6745.0; 30-NOV-2008 15:20:16; Dark ; 53.0; 70; Zet Pup ; 2.25; 39000;occ; 106; 0;35306
 22; 6953.7; 30-NOV-2008 15:23:45; Dark ; 59.5; 117; Pi Pup ; 2.71; 3800;occ; 119; 0;35306
 23; 7099.7; 30-NOV-2008 15:26:11; Dark ; 44.0; 88; 31Eta CMA ; 2.45; 20000;occ; 88; 0;35306
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