

GOMOS Daily Report 18-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	20NOV2008 05:43:12
Data source version	GOMOS/5.00
Start time of products	18NOV2008 20:03:50
Stop time of products	18NOV2008 23:59:59
Store outputs in DB	Yes
Nb of level 1b prods	34
Nb of prods with errors	0

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

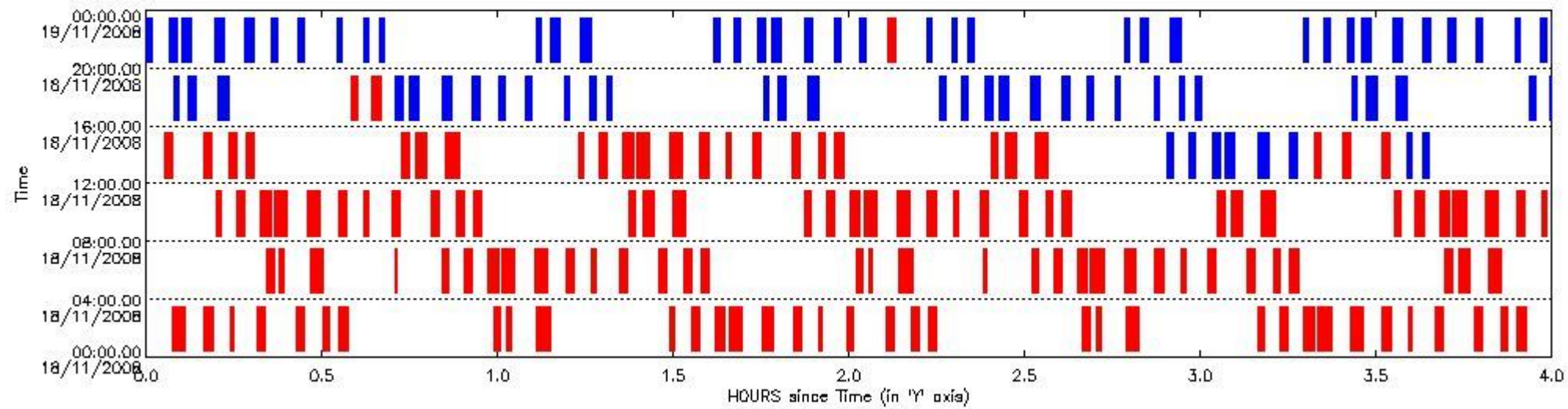
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

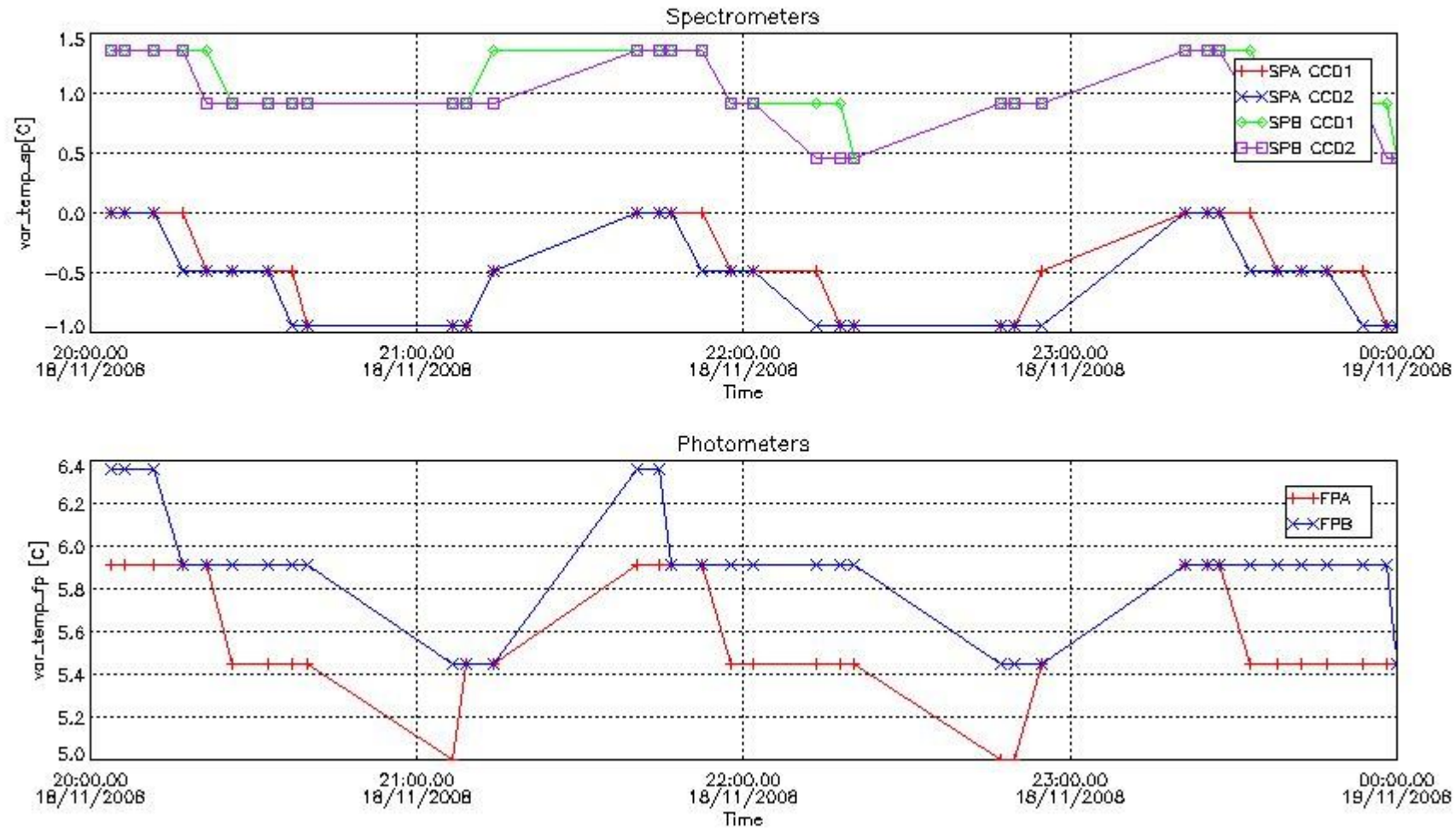
UTC start time	Star name	Star ID	Orbit
18-NOV-2008 00:04:30	2BetCMa	47	35126
18-NOV-2008 00:09:48	19BetOri	7	35126
18-NOV-2008 00:14:17	50ZetOri	33	35126
18-NOV-2008 00:18:55	87AlpTau	13	35126
18-NOV-2008 00:25:40	3IotAur	114	35126
18-NOV-2008 00:30:03	13AlpAur	6	35126
18-NOV-2008 00:32:52	34BetAur	42	35126
18-NOV-2008 00:59:20	68DelLeo	96	35126
18-NOV-2008 01:01:33	17EpsLeo	166	35126
18-NOV-2008 01:06:39	32AlpLeo	22	35126
18-NOV-2008 01:29:18	DSA1057	0	35127
18-NOV-2008 01:33:01	PiPup	117	35127
18-NOV-2008 01:37:05	21EpsCMa	23	35127
18-NOV-2008 01:39:24	24Omi2CMa	179	35127
18-NOV-2008 01:45:06	2BetCMa	47	35127

18-NOV-2008 01:50:24	19BetOri	7	35127
18-NOV-2008 01:54:52	50ZetOri	33	35127
18-NOV-2008 01:59:31	87AlpTau	13	35127
18-NOV-2008 02:06:15	3IotAur	114	35127
18-NOV-2008 02:10:38	13AlpAur	6	35127
18-NOV-2008 02:13:27	34BetAur	42	35127
18-NOV-2008 02:39:57	68DelLeo	96	35127
18-NOV-2008 02:42:10	17EpsLeo	166	35127
18-NOV-2008 02:47:16	32AlpLeo	22	35127
18-NOV-2008 03:09:56	DSA1057	0	35128
18-NOV-2008 03:13:38	PiPup	117	35128
18-NOV-2008 03:17:42	21EpsCMa	23	35128
18-NOV-2008 03:20:01	24Omi2CMa	179	35128
18-NOV-2008 03:25:43	2BetCMa	47	35128
18-NOV-2008 03:31:00	19BetOri	7	35128
18-NOV-2008 03:35:26	50ZetOri	33	35128
18-NOV-2008 03:40:06	87AlpTau	13	35128
18-NOV-2008 03:46:50	3IotAur	114	35128
18-NOV-2008 03:51:13	13AlpAur	6	35128
18-NOV-2008 03:54:01	34BetAur	42	35128
18-NOV-2008 04:20:33	68DelLeo	96	35128
18-NOV-2008 04:22:47	17EpsLeo	166	35128
18-NOV-2008 04:27:54	32AlpLeo	22	35128
18-NOV-2008 04:42:22	30AlpHya	48	35129
18-NOV-2008 04:50:33	DSA1057	0	35129
18-NOV-2008 04:54:15	PiPup	117	35129
18-NOV-2008 04:58:19	21EpsCMa	23	35129
18-NOV-2008 05:00:38	24Omi2CMa	179	35129
18-NOV-2008 05:06:19	2BetCMa	47	35129
18-NOV-2008 05:11:35	19BetOri	7	35129
18-NOV-2008 05:16:01	50ZetOri	33	35129
18-NOV-2008 05:20:41	87AlpTau	13	35129
18-NOV-2008 05:27:25	3IotAur	114	35129
18-NOV-2008 05:31:48	13AlpAur	6	35129
18-NOV-2008 05:34:36	34BetAur	42	35129
18-NOV-2008 06:01:10	68DelLeo	96	35129
18-NOV-2008 06:03:25	17EpsLeo	166	35129
18-NOV-2008 06:08:32	32AlpLeo	22	35129
18-NOV-2008 06:23:02	30AlpHya	48	35130
18-NOV-2008 06:31:11	DSA1057	0	35130
18-NOV-2008 06:34:52	PiPup	117	35130
18-NOV-2008 06:38:56	21EpsCMa	23	35130
18-NOV-2008 06:41:16	24Omi2CMa	179	35130
18-NOV-2008 06:46:55	2BetCMa	47	35130
18-NOV-2008 06:52:11	19BetOri	7	35130
18-NOV-2008 06:56:36	50ZetOri	33	35130
18-NOV-2008 07:01:16	87AlpTau	13	35130
18-NOV-2008 07:08:00	3IotAur	114	35130
18-NOV-2008 07:12:23	13AlpAur	6	35130
18-NOV-2008 07:15:11	34BetAur	42	35130
18-NOV-2008 07:41:46	68DelLeo	96	35130
18-NOV-2008 07:44:08	41Gam1Leo	51	35130
18-NOV-2008 07:49:10	32AlpLeo	22	35130
18-NOV-2008 08:11:49	DSA1057	0	35131
18-NOV-2008 08:15:29	PiPup	117	35131
18-NOV-2008 08:19:33	21EpsCMa	23	35131
18-NOV-2008 08:21:53	24Omi2CMa	179	35131
18-NOV-2008 08:27:31	2BetCMa	47	35131
18-NOV-2008 08:32:47	19BetOri	7	35131

18-NOV-2008 08:37:11	50ZetOri	33	35131
18-NOV-2008 08:41:51	87AlpTau	13	35131
18-NOV-2008 08:48:35	3IotAur	114	35131
18-NOV-2008 08:52:58	13AlpAur	6	35131
18-NOV-2008 08:55:45	34BetAur	42	35131
18-NOV-2008 09:22:22	68DelLeo	96	35131
18-NOV-2008 09:24:45	41Gam1Leo	51	35131
18-NOV-2008 09:29:47	32AlpLeo	22	35131
18-NOV-2008 09:52:27	DSA1057	0	35132
18-NOV-2008 09:56:06	PiPup	117	35132
18-NOV-2008 10:00:10	21EpsCMa	23	35132
18-NOV-2008 10:02:30	24Omi2CMa	179	35132
18-NOV-2008 10:08:07	2BetCMa	47	35132
18-NOV-2008 10:13:22	19BetOri	7	35132
18-NOV-2008 10:17:45	50ZetOri	33	35132
18-NOV-2008 10:22:26	87AlpTau	13	35132
18-NOV-2008 10:29:09	3IotAur	114	35132
18-NOV-2008 10:33:32	13AlpAur	6	35132
18-NOV-2008 10:36:20	34BetAur	42	35132
18-NOV-2008 11:02:59	68DelLeo	96	35132
18-NOV-2008 11:05:22	41Gam1Leo	51	35132
18-NOV-2008 11:10:25	32AlpLeo	22	35132
18-NOV-2008 11:33:05	DSA1057	0	35133
18-NOV-2008 11:36:43	PiPup	117	35133
18-NOV-2008 11:40:47	21EpsCMa	23	35133
18-NOV-2008 11:43:07	24Omi2CMa	179	35133
18-NOV-2008 11:48:44	2BetCMa	47	35133
18-NOV-2008 11:53:58	19BetOri	7	35133
18-NOV-2008 11:58:20	50ZetOri	33	35133
18-NOV-2008 12:03:02	87AlpTau	13	35133
18-NOV-2008 12:09:44	3IotAur	114	35133
18-NOV-2008 12:14:07	13AlpAur	6	35133
18-NOV-2008 12:16:54	34BetAur	42	35133
18-NOV-2008 12:43:35	68DelLeo	96	35133
18-NOV-2008 12:45:59	41Gam1Leo	51	35133
18-NOV-2008 12:51:03	32AlpLeo	22	35133
18-NOV-2008 13:13:43	DSA1057	0	35134
18-NOV-2008 13:17:20	PiPup	117	35134
18-NOV-2008 13:21:24	21EpsCMa	23	35134
18-NOV-2008 13:23:44	24Omi2CMa	179	35134
18-NOV-2008 13:29:20	2BetCMa	47	35134
18-NOV-2008 13:34:34	19BetOri	7	35134
18-NOV-2008 13:38:55	50ZetOri	33	35134
18-NOV-2008 13:43:37	87AlpTau	13	35134
18-NOV-2008 13:50:19	3IotAur	114	35134
18-NOV-2008 13:54:42	13AlpAur	6	35134
18-NOV-2008 13:57:29	34BetAur	42	35134
18-NOV-2008 14:24:11	68DelLeo	96	35134
18-NOV-2008 14:26:36	41Gam1Leo	51	35134
18-NOV-2008 14:31:41	32AlpLeo	22	35134
18-NOV-2008 15:19:30	50ZetOri	33	35135
18-NOV-2008 15:24:12	87AlpTau	13	35135
18-NOV-2008 15:30:54	3IotAur	114	35135
18-NOV-2008 16:34:59	DSA1057	0	35136
18-NOV-2008 16:38:34	PiPup	117	35136
18-NOV-2008 22:06:33	87AlpTau	13	35139

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20081118_200350_000000822074_00014_35138_0644.N1	18-NOV-2008 20:03:50	Dark	81.500	23	21Eps CMa	1.5020	26000.	163	35138	No
2	GOM_TRA_1PNPDE20081118_200609_000000902074_00014_35138_0645.N1	18-NOV-2008 20:06:09	Dark	89.500	179	24Omi2CMa	3.0320	24000.	179	35138	No
3	GOM_TRA_1PNPDE20081118_201142_000000982074_00014_35138_0646.N1	18-NOV-2008 20:11:42	Straylight	97.500	47	2Bet CMa	1.9760	28000.	195	35138	No
4	GOM_TRA_1PNPDE20081118_201653_000000872074_00014_35138_0647.N1	18-NOV-2008 20:16:53	Straylight	87.000	7	19Bet Ori	0.10000	14000.	174	35138	No
5	GOM_TRA_1PNPDE20081118_202111_000000732074_00014_35138_0648.N1	18-NOV-2008 20:21:11	Bright	73.000	33	50Zet Ori	1.7660	30000.	146	35138	No
6	GOM_TRA_1PNPDE20081118_202555_000000592074_00014_35138_0649.N1	18-NOV-2008 20:25:55	Bright	58.500	13	87Alp Tau	0.86700	3800.0	117	35138	No
7	GOM_TRA_1PNPDE20081118_203236_000000552074_00014_35138_0650.N1	18-NOV-2008 20:32:36	Bright	54.500	114	3lot Aur	2.6930	4600.0	109	35138	No
8	GOM_TRA_1PNPDE20081118_203700_000000552074_00014_35138_0651.N1	18-NOV-2008 20:37:00	Bright	55.000	6	13Alp Aur	0.080000	3400.0	110	35138	No
9	GOM_TRA_1PNPDE20081118_203945_000000582074_00014_35138_0652.N1	18-NOV-2008 20:39:45	Bright	58.000	42	34Bet Aur	1.9000	10200.	116	35138	No
10	GOM_TRA_1PNPDE20081118_210634_000000522074_00014_35138_0653.N1	18-NOV-2008 21:06:34	Bright	52.000	96	68Del Leo	2.5600	9300.0	104	35138	No
11	GOM_TRA_1PNPDE20081118_210900_000000932074_00014_35138_0654.N1	18-NOV-2008 21:09:00	Bright	93.000	51	41Gam1Leo	2.0100	4500.0	186	35138	No
12	GOM_TRA_1PNPDE20081118_211409_000001122074_00014_35138_0783.N1	18-NOV-2008 21:14:09	Straylight	112.00	22	32Alp Leo	1.3600	15200.	224	35138	No
13	GOM_TRA_1PNPDE20081118_214022_000000592074_00015_35139_0784.N1	18-NOV-2008 21:40:22	Dark	59.000	117	Pi Pup	2.7060	3800.0	118	35139	No
14	GOM_TRA_1PNPDE20081118_214426_000000802074_00015_35139_0785.N1	18-NOV-2008 21:44:26	Dark	79.500	23	21Eps CMa	1.5020	26000.	159	35139	No
15	GOM_TRA_1PNPDE20081118_214646_000000912074_00015_35139_0786.N1	18-NOV-2008 21:46:46	Straylight	91.000	179	24Omi2CMa	3.0320	24000.	182	35139	No
16	GOM_TRA_1PNPDE20081118_215218_000000902074_00015_35139_0787.N1	18-NOV-2008 21:52:18	Straylight	90.000	47	2Bet CMa	1.9760	28000.	180	35139	No
17	GOM_TRA_1PNPDE20081118_215729_000000732074_00015_35139_0788.N1	18-NOV-2008 21:57:29	Straylight	73.000	7	19Bet Ori	0.10000	14000.	146	35139	No
18	GOM_TRA_1PNPDE20081118_220146_000000732074_00015_35139_0789.N1	18-NOV-2008 22:01:46	Bright	73.000	33	50Zet Ori	1.7660	30000.	146	35139	No
19	GOM_TRA_1PNPDE20081118_221311_000000542074_00015_35139_0790.N1	18-NOV-2008 22:13:11	Bright	54.000	114	3lot Aur	2.6930	4600.0	108	35139	No
20	GOM_TRA_1PNPDE20081118_221734_000000542074_00015_35139_0791.N1	18-NOV-2008 22:17:34	Bright	53.500	6	13Alp Aur	0.080000	3400.0	107	35139	No
21	GOM_TRA_1PNPDE20081118_222019_000000572074_00015_35139_0792.N1	18-NOV-2008 22:20:19	Bright	57.000	42	34Bet Aur	1.9000	10200.	114	35139	No
22	GOM_TRA_1PNPDE20081118_224710_000000492074_00015_35139_0793.N1	18-NOV-2008 22:47:10	Bright	49.000	96	68Del Leo	2.5600	9300.0	98	35139	No
23	GOM_TRA_1PNPDE20081118_224937_000000942074_00015_35139_0794.N1	18-NOV-2008 22:49:37	Bright	94.000	51	41Gam1Leo	2.0100	4500.0	188	35139	No
24	GOM_TRA_1PNPDE20081118_225446_000001092074_00015_35139_0795.N1	18-NOV-2008 22:54:46	Straylight	108.50	22	32Alp Leo	1.3600	15200.	217	35139	No
25	GOM_TRA_1PNPDE20081118_232059_000000652074_00016_35140_0935.N1	18-NOV-2008 23:20:59	Dark	64.500	117	Pi Pup	2.7060	3800.0	129	35140	No
26	GOM_TRA_1PNPDE20081118_232503_000000752074_00016_35140_0936.N1	18-NOV-2008 23:25:03	Dark	74.500	23	21Eps CMa	1.5020	26000.	149	35140	No
27	GOM_TRA_1PNPDE20081118_232723_000000962074_00016_35140_0937.N1	18-NOV-2008 23:27:23	Straylight	96.000	179	24Omi2CMa	3.0320	24000.	192	35140	No
28	GOM_TRA_1PNPDE20081118_233254_000000962074_00016_35140_0938.N1	18-NOV-2008 23:32:54	Straylight	95.500	47	2Bet CMa	1.9760	28000.	191	35140	No
29	GOM_TRA_1PNPDE20081118_233804_000000762074_00016_35140_0939.N1	18-NOV-2008 23:38:04	Straylight	75.500	7	19Bet Ori	0.10000	14000.	151	35140	No
30	GOM_TRA_1PNPDE20081118_234221_000000802074_00016_35140_0940.N1	18-NOV-2008 23:42:21	Bright	80.000	33	50Zet Ori	1.7660	30000.	160	35140	No
31	GOM_TRA_1PNPDE20081118_234705_000000592074_00016_35140_0941.N1	18-NOV-2008 23:47:05	Bright	59.000	13	87Alp Tau	0.86700	3800.0	118	35140	No
32	GOM_TRA_1PNPDE20081118_235346_000000542074_00016_35140_0942.N1	18-NOV-2008 23:53:46	Bright	53.500	114	3lot Aur	2.6930	4600.0	107	35140	No
33	GOM_TRA_1PNPDE20081118_235809_000000532074_00016_35140_0943.N1	18-NOV-2008 23:58:09	Bright	53.000	6	13Alp Aur	0.080000	3400.0	106	35140	No
34	GOM_TRA_1PNPDE20081118_235959_000000692074_00016_35140_0944.N1	18-NOV-2008 23:59:59	Bright	68.500	107	37The Aur	2.6490	11000.	137	35140	No

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



4. Overview of dark signal processing per product

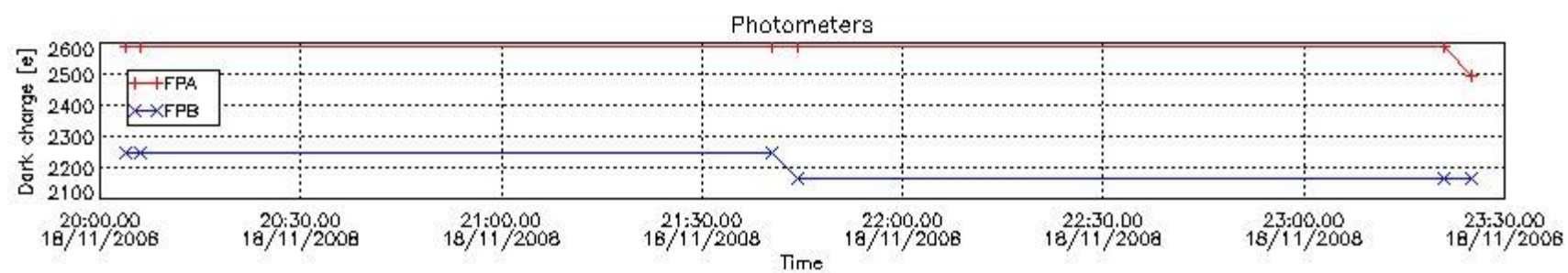
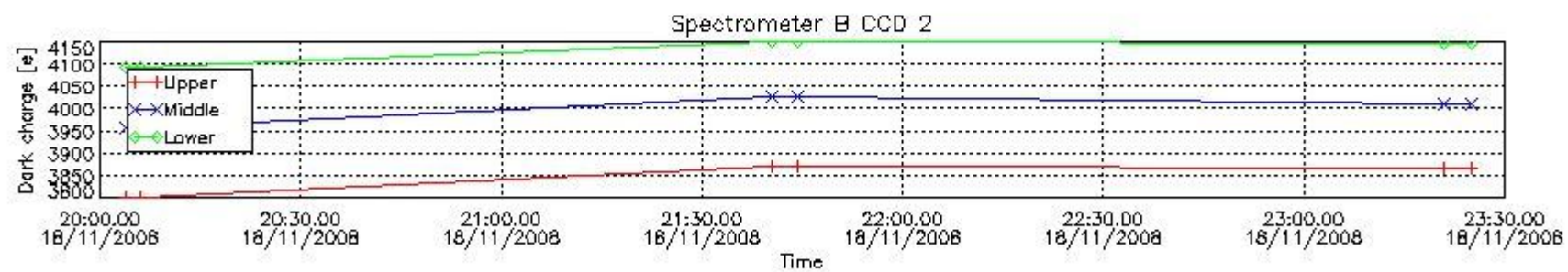
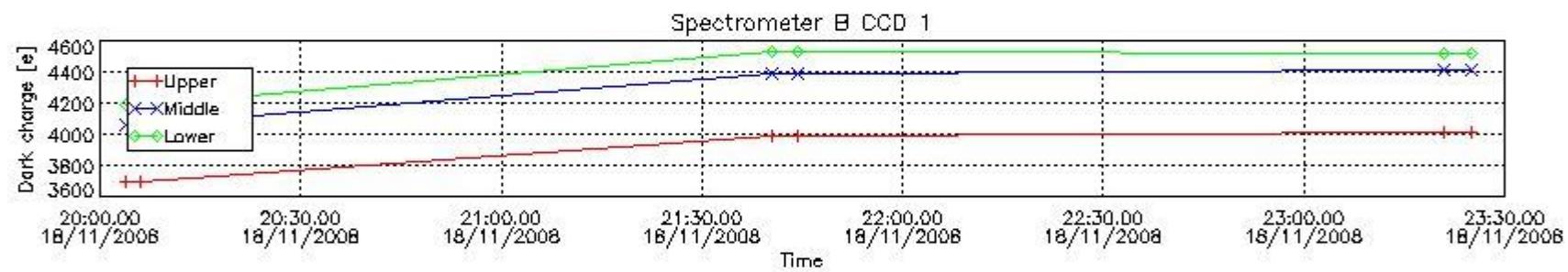
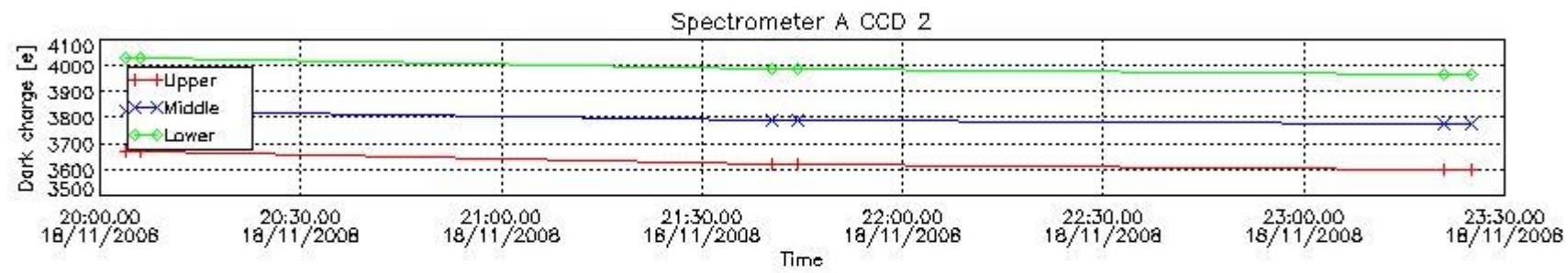
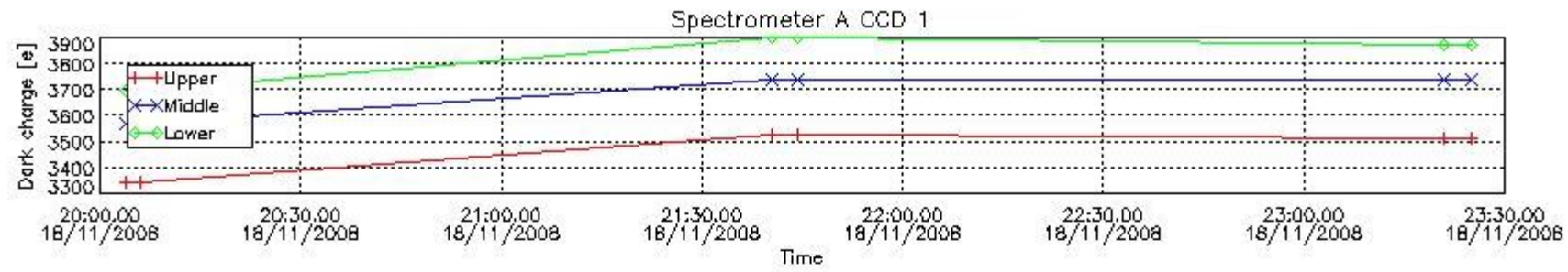
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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

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

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

Product name	DC information
GOM_TRA_1PNPDE20081118_200350_000000822074_00014_35138_0644.N1	DC map used
GOM_TRA_1PNPDE20081118_200609_000000902074_00014_35138_0645.N1	DC map used
GOM_TRA_1PNPDE20081118_201142_000000982074_00014_35138_0646.N1	DC map used
GOM_TRA_1PNPDE20081118_201653_000000872074_00014_35138_0647.N1	DC map used
GOM_TRA_1PNPDE20081118_202111_000000732074_00014_35138_0648.N1	DC map used
GOM_TRA_1PNPDE20081118_202555_000000592074_00014_35138_0649.N1	DC map used
GOM_TRA_1PNPDE20081118_203236_000000552074_00014_35138_0650.N1	DC map used
GOM_TRA_1PNPDE20081118_203700_000000552074_00014_35138_0651.N1	DC map used
GOM_TRA_1PNPDE20081118_203945_000000582074_00014_35138_0652.N1	DC map used
GOM_TRA_1PNPDE20081118_210634_000000522074_00014_35138_0653.N1	DC map used
GOM_TRA_1PNPDE20081118_210900_000000932074_00014_35138_0654.N1	DC map used

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



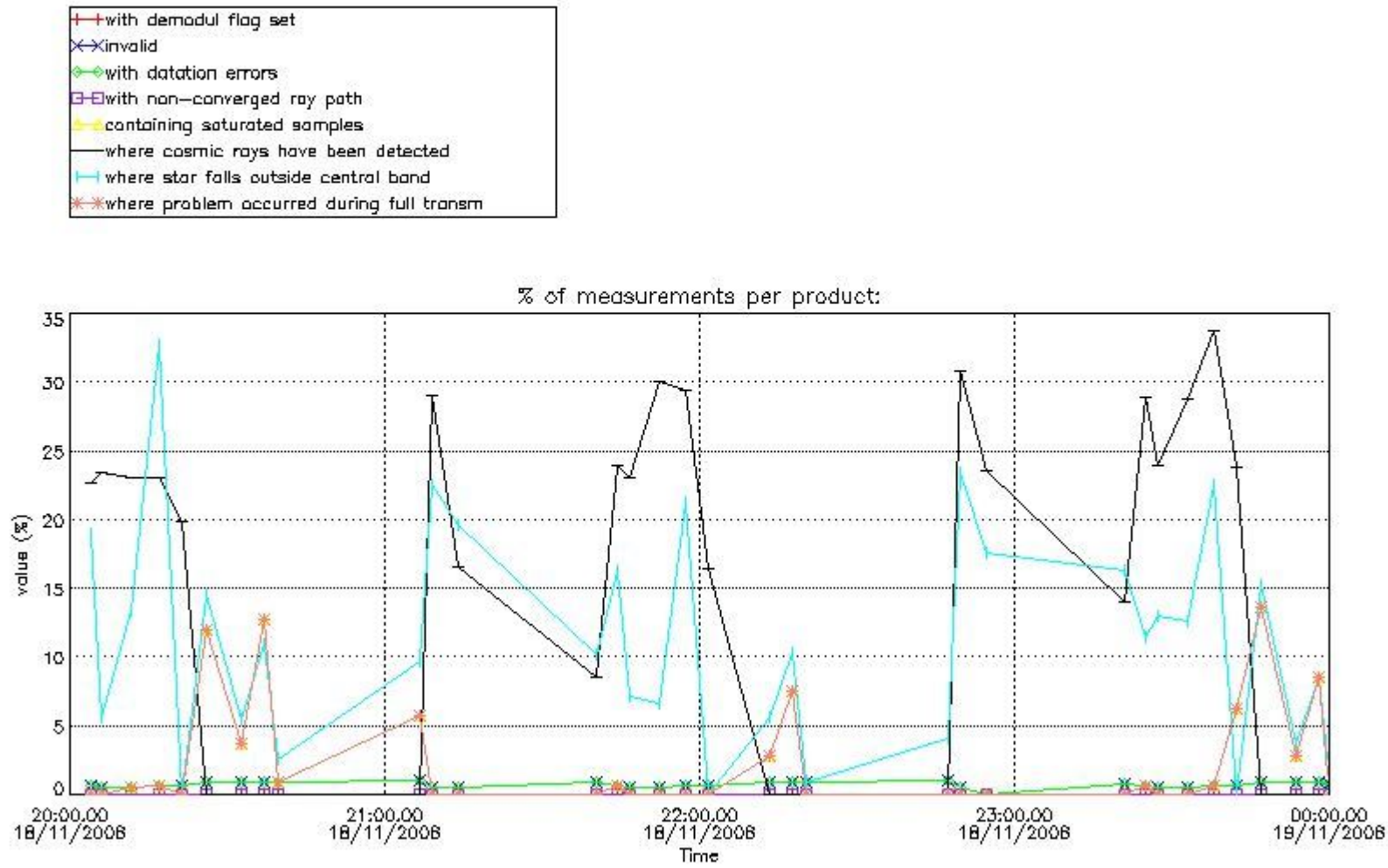
5. Demodulation flag and quality information monitoring

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

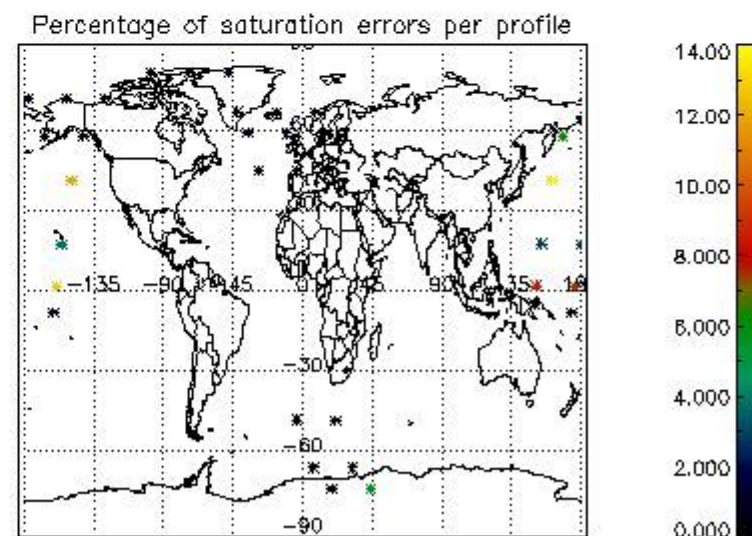
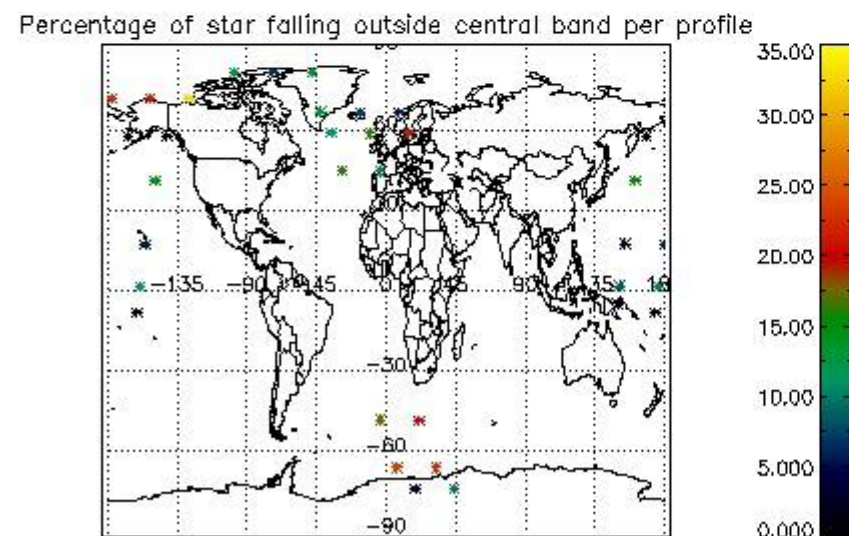
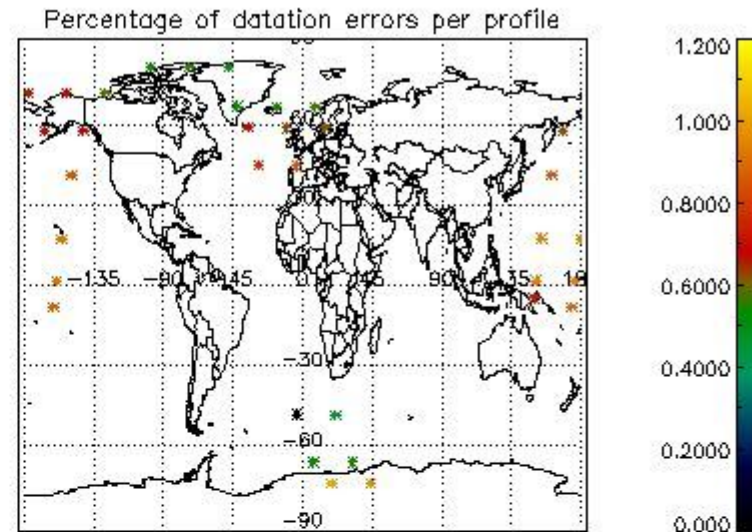
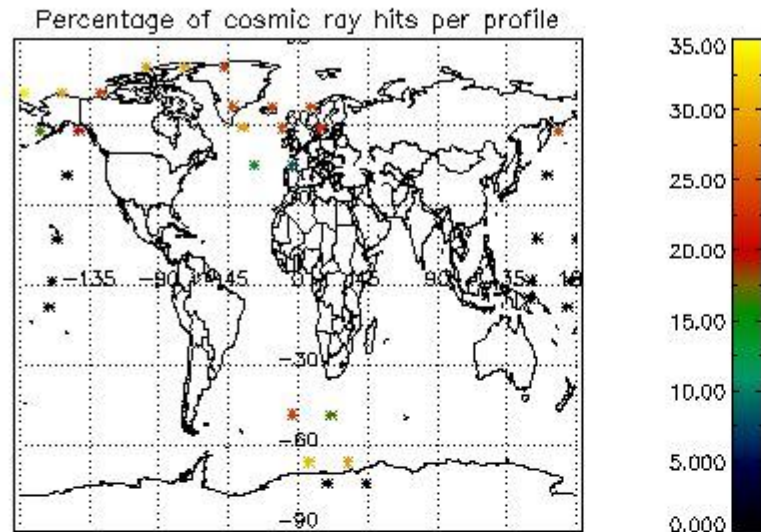
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	41.1765 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



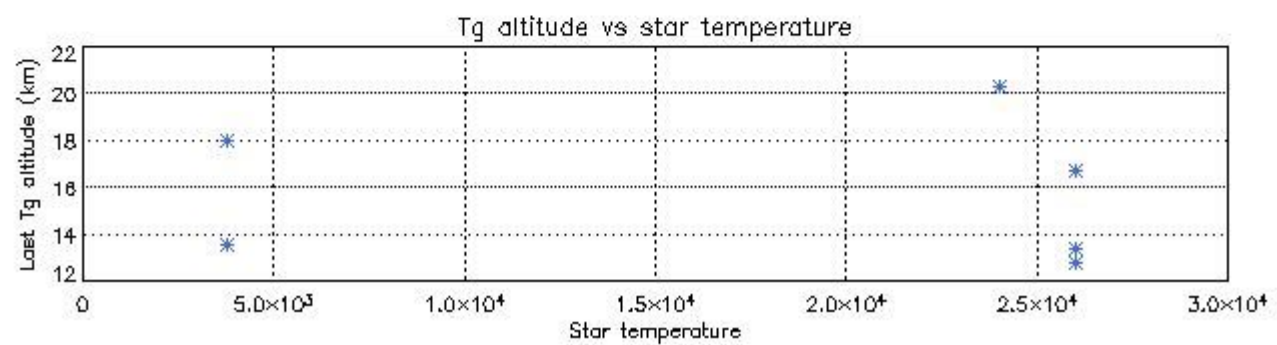
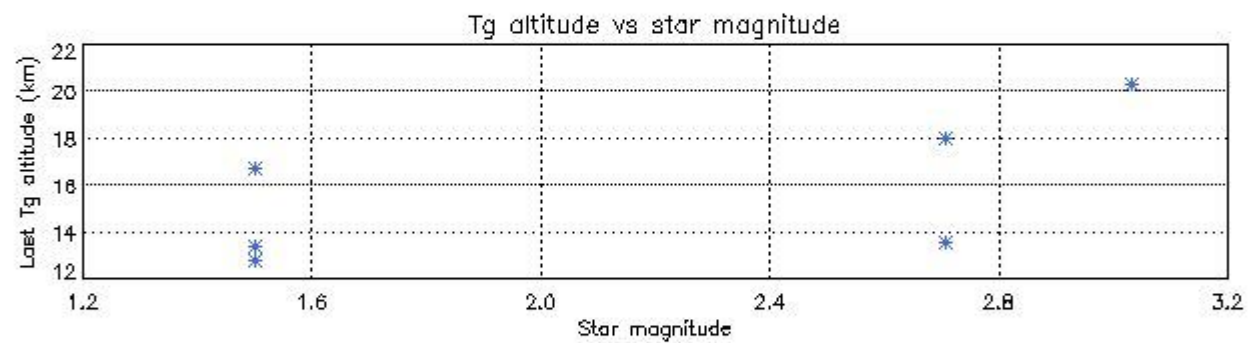
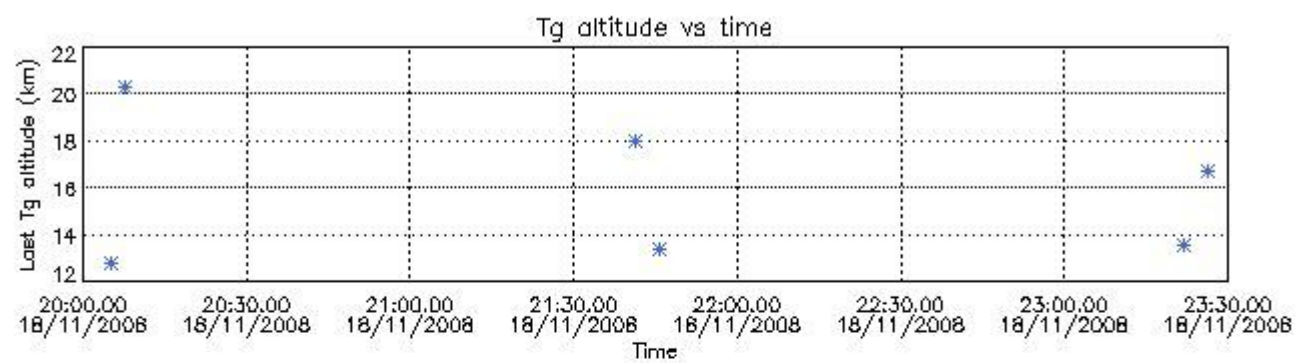
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.787	21.726	NaN
St. deviation:	3.0091	7.5483	NaN
Maximum:	20.272	37.263	NaN
Minimum:	12.809	10.133	NaN
Number of data:	6.0000	18.000	NaN

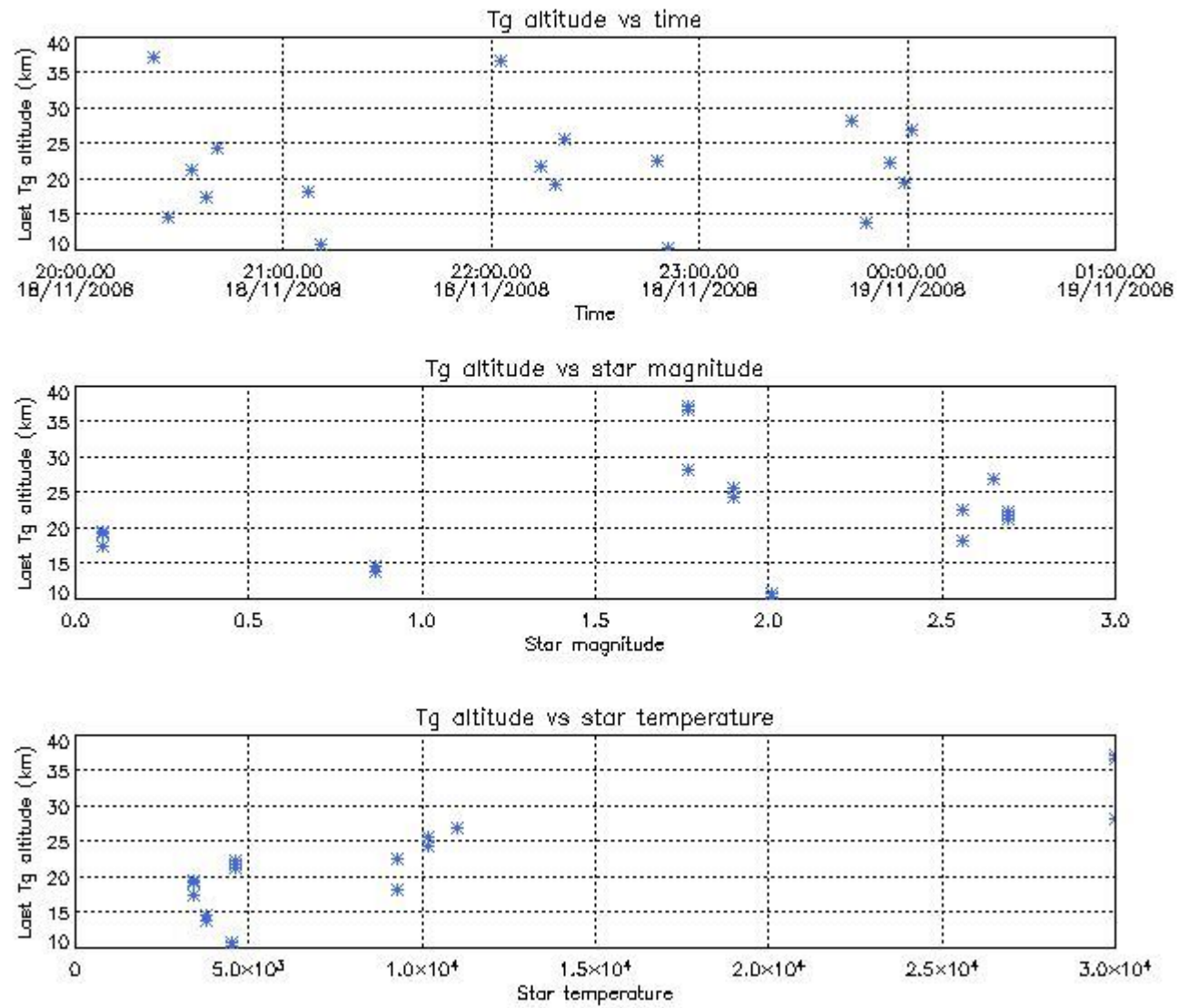
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

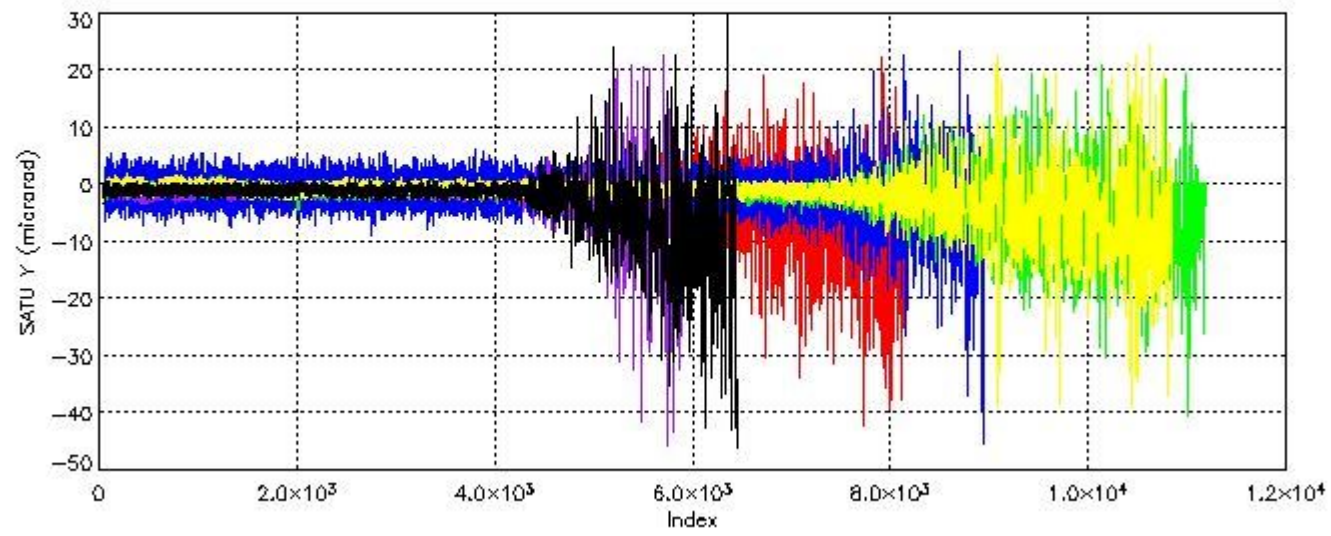
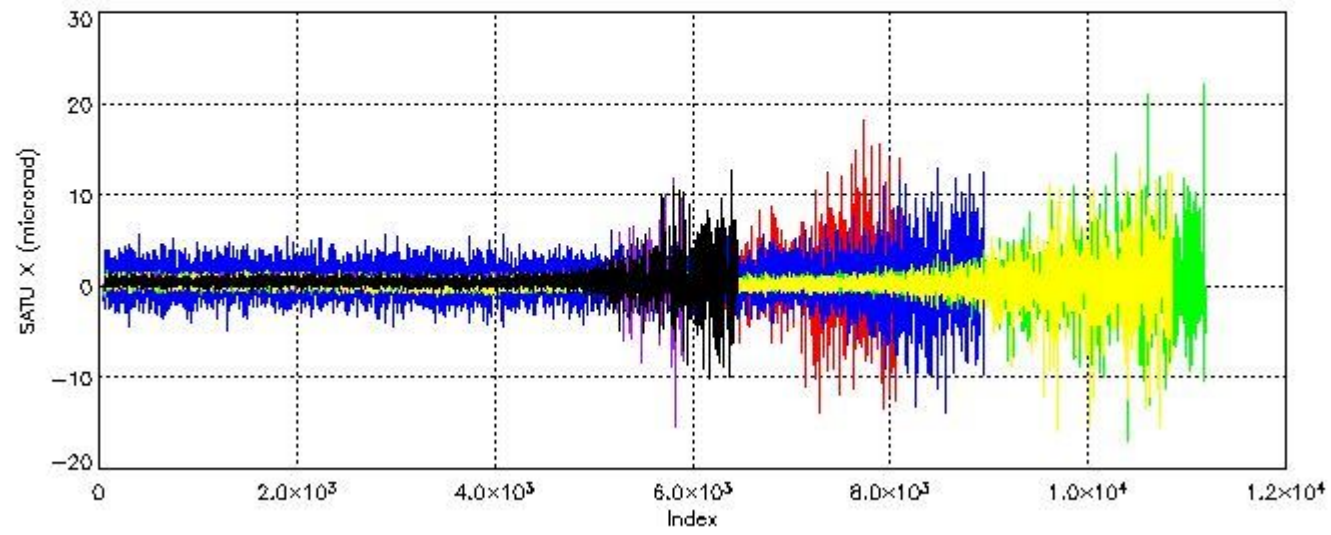


7. Star Acquisition and Tracking Unit (SATU)

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:	0.56798	-1.0162	0.39025	-0.99961
St. deviation:	0.62260	1.1538	0.53954	0.94719
Maximum:	5.7000	5.4000	5.3000	4.6000
Minimum:	-4.9000	-7.4000	-3.9000	-6.8000

Number of data:	9700.0	9700.0	27250.	27250.
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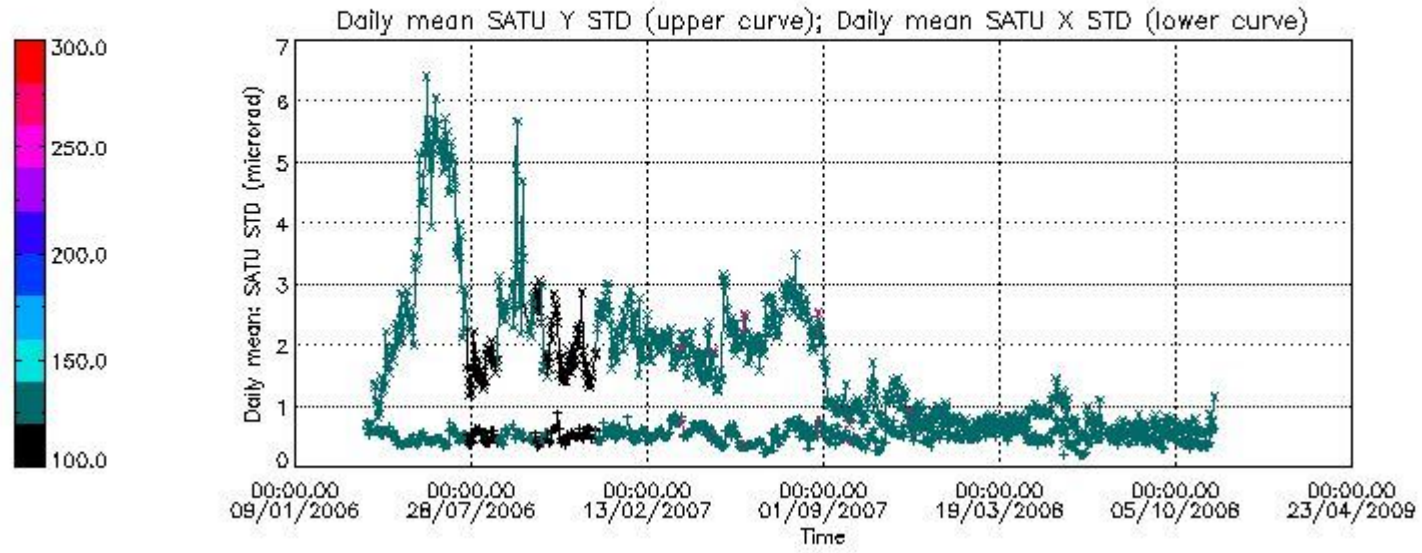
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

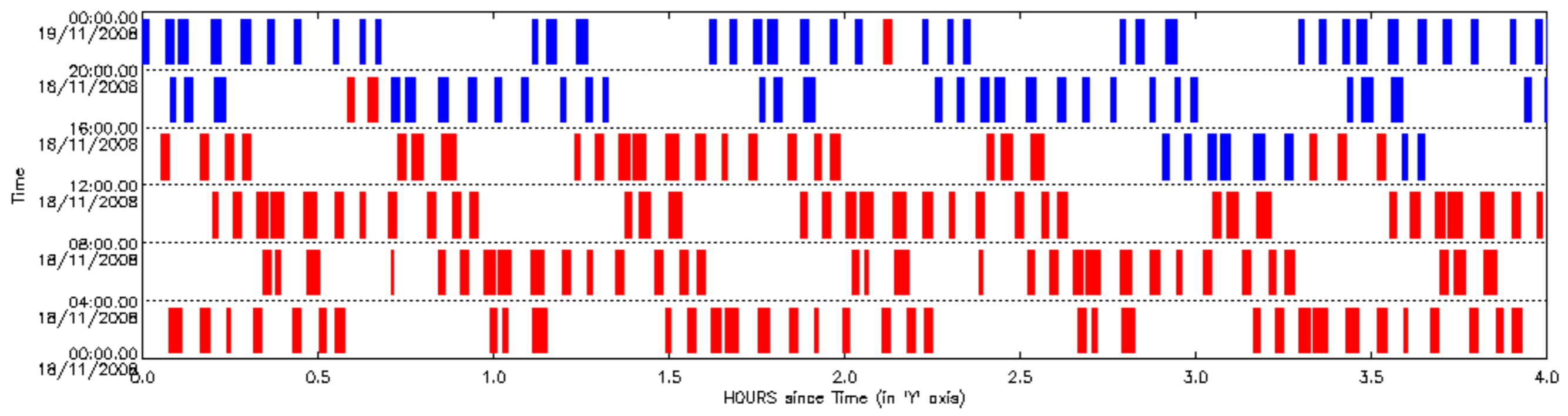
Lower curve: STD of SATU X axis

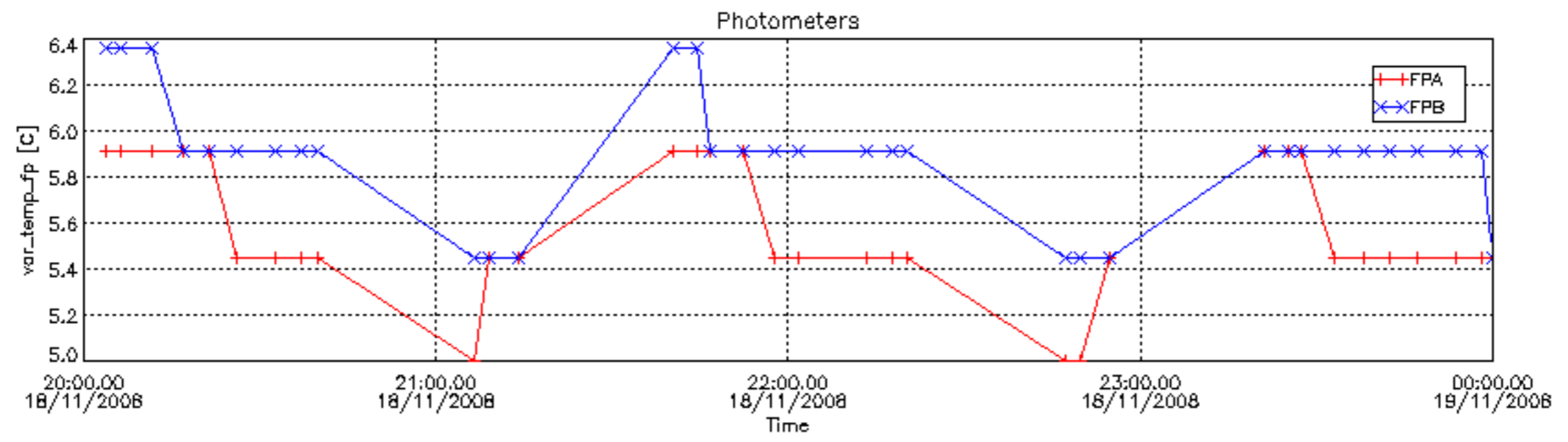
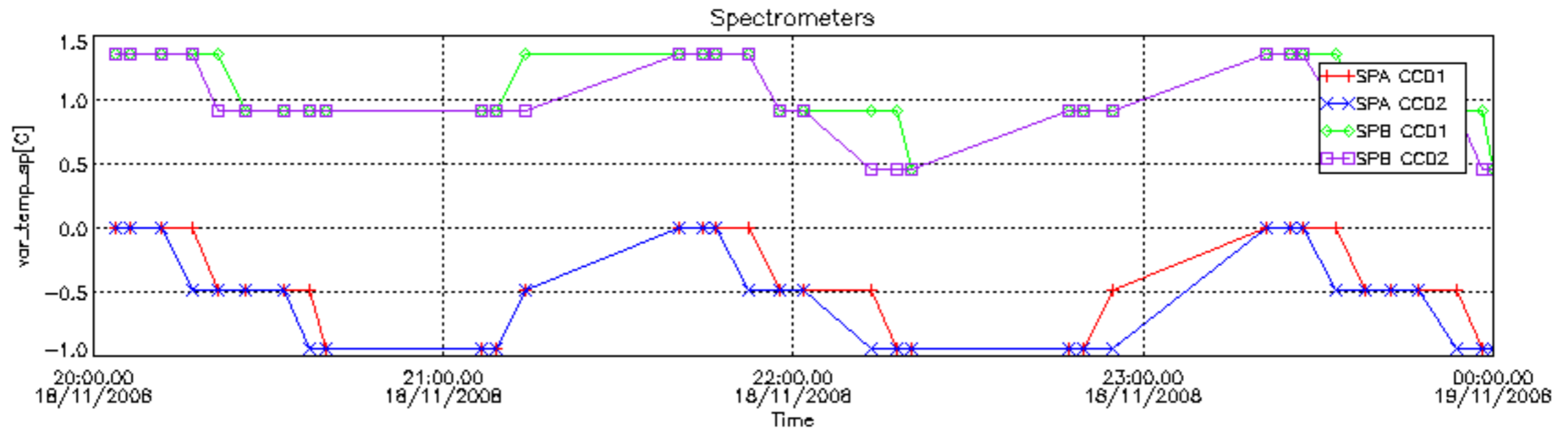


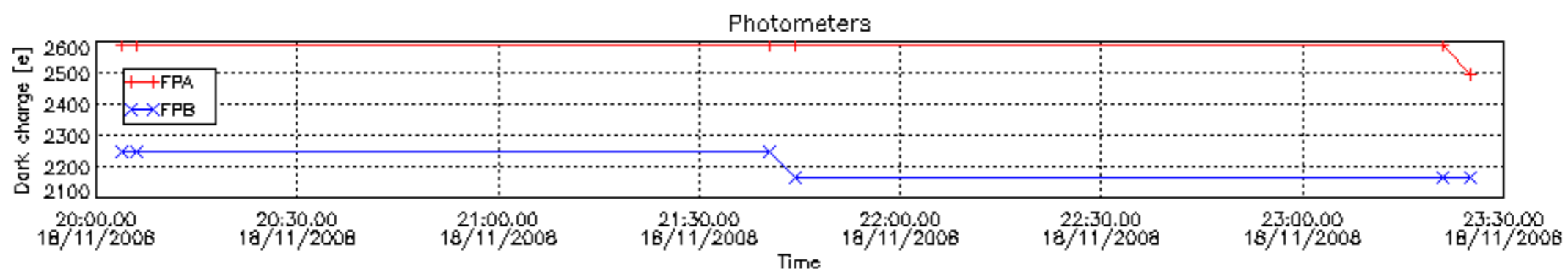
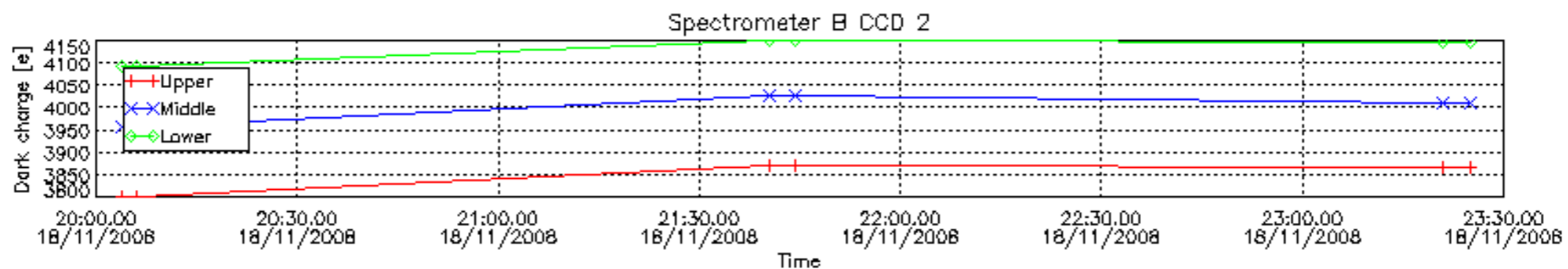
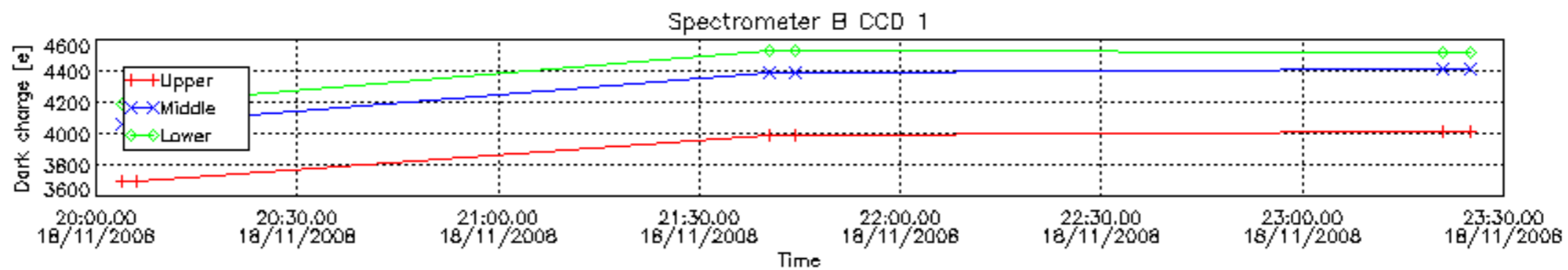
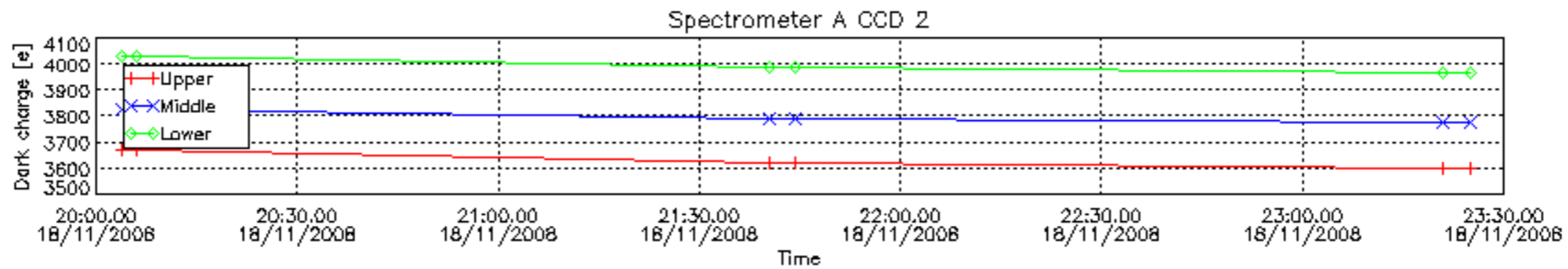
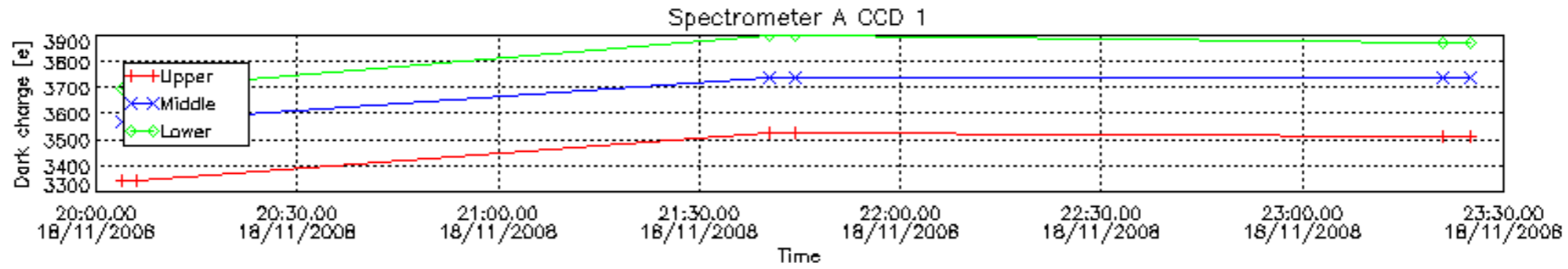
8. Auxiliary Data Files used for the production reported in section 2.4

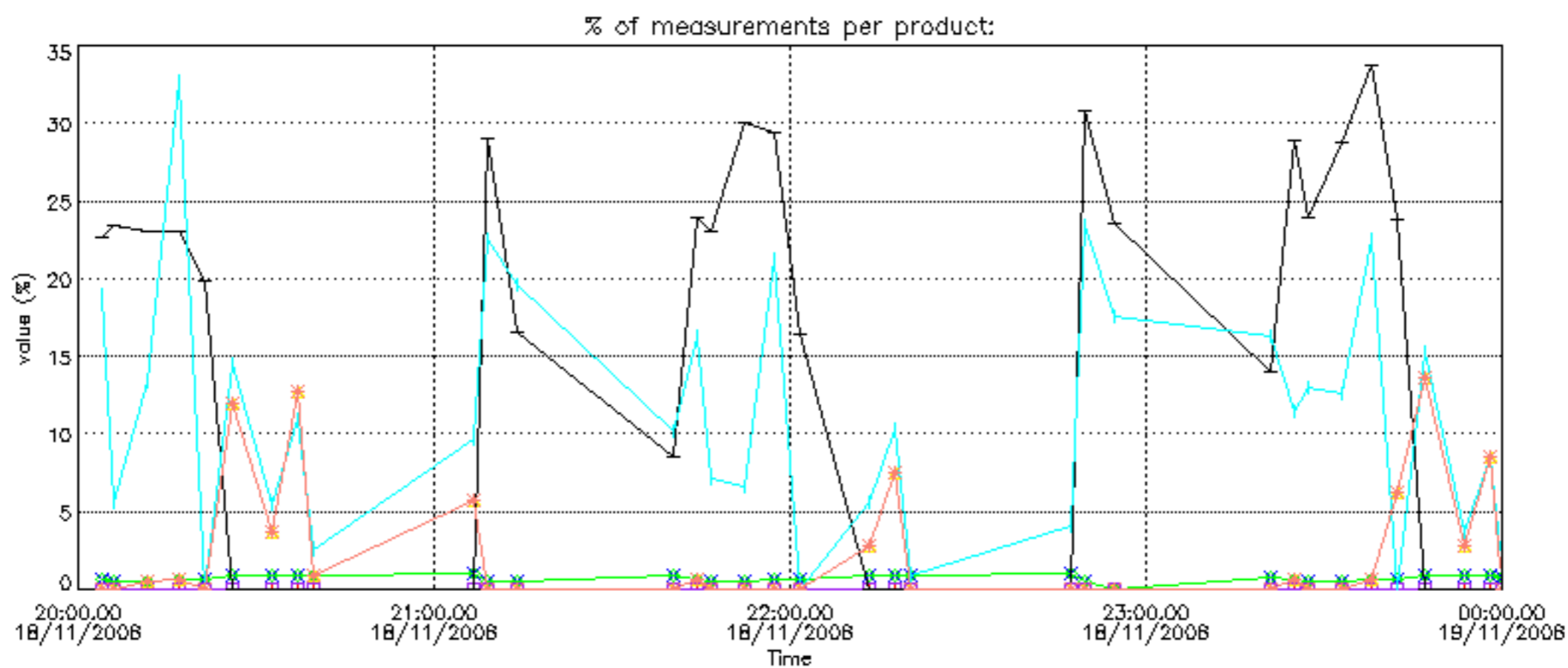
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	18-NOV-2008 20:03:50
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20081117_091129_20081115_000000_20100101_000000	1	18-NOV-2008 20:03:50
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	18-NOV-2008 20:03:50
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	18-NOV-2008 20:03:50
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	18-NOV-2008 20:03:50
ECMWF_FILE	AUX_ECF_AXNECM20081118_072112_20081118_150000_20081119_030000	1	18-NOV-2008 20:03:50
ECMWF_FILE	AUX_ECF_AXNECM20081118_072112_20081118_210000_20081119_090000	12	18-NOV-2008 21:14:09
OPTIONAL_ECMWF_FILE	MISSING	1	18-NOV-2008 20:03:50
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20081118_200035_000038262074_00014_35138_6792.N1	1	18-NOV-2008 20:03:50
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20081118_210939_000060572074_00014_35138_6793.N1	25	18-NOV-2008 23:20:59

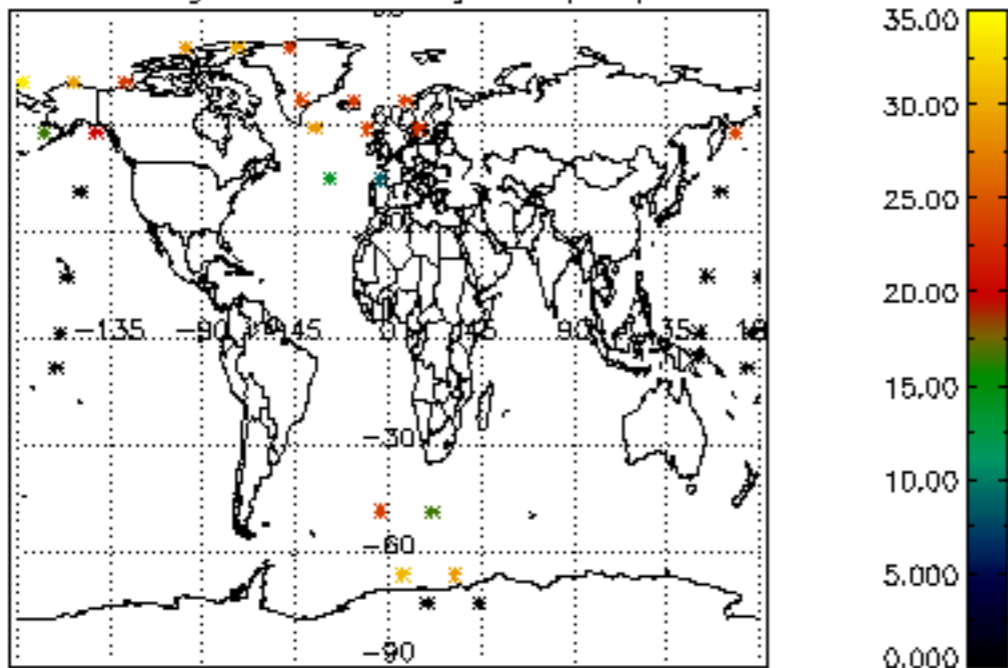




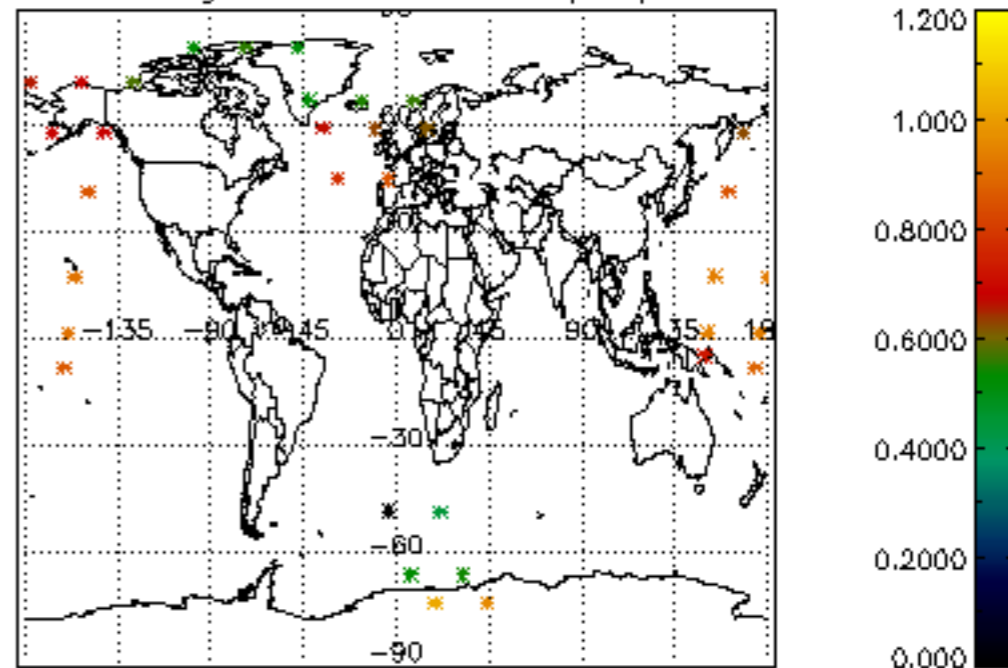




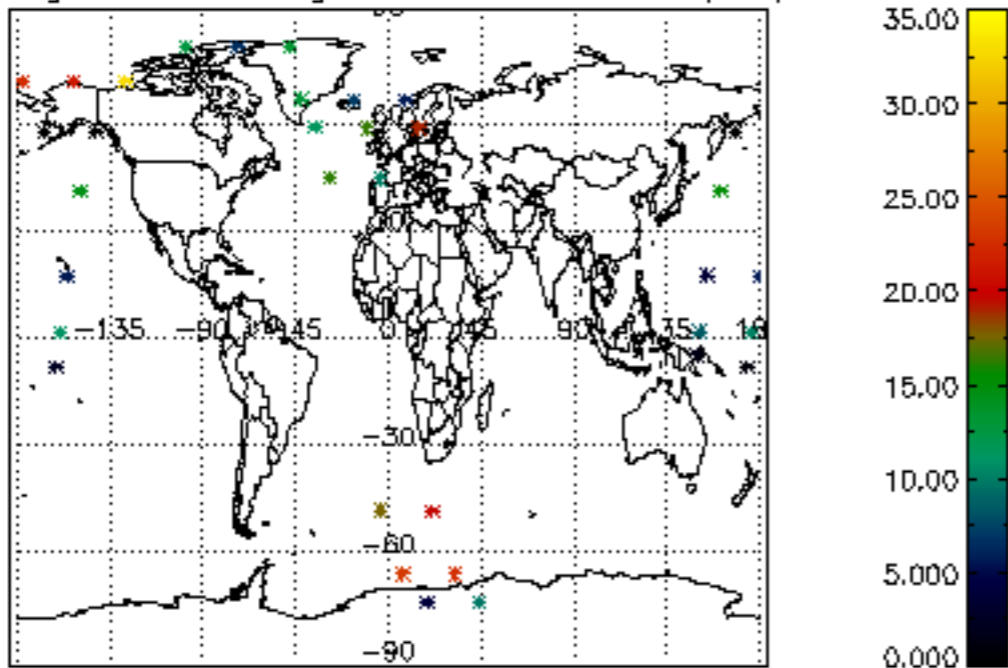
Percentage of cosmic ray hits per profile



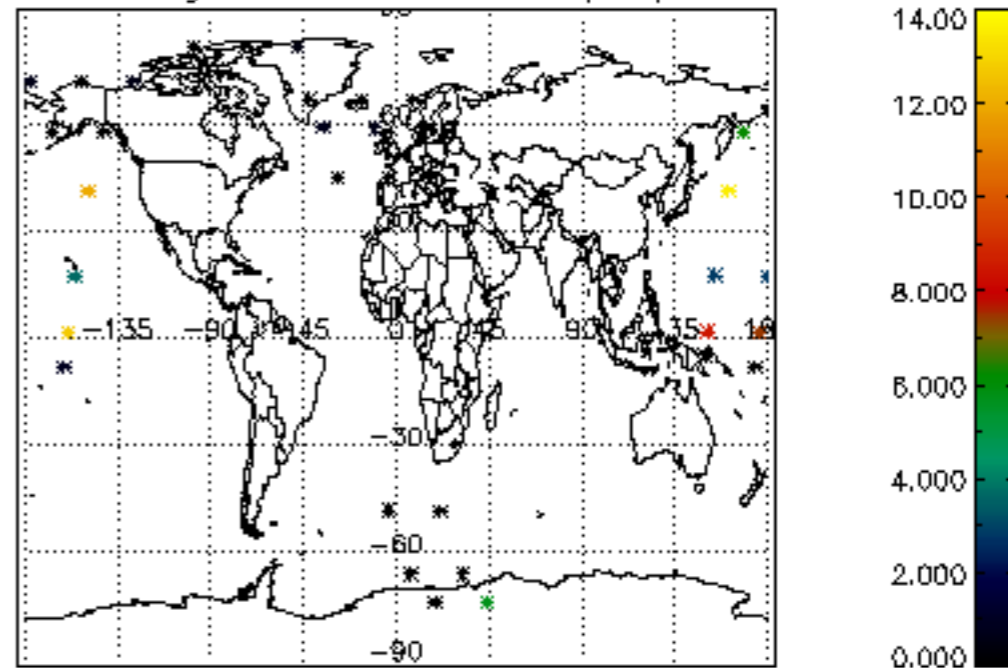
Percentage of datation errors per profile



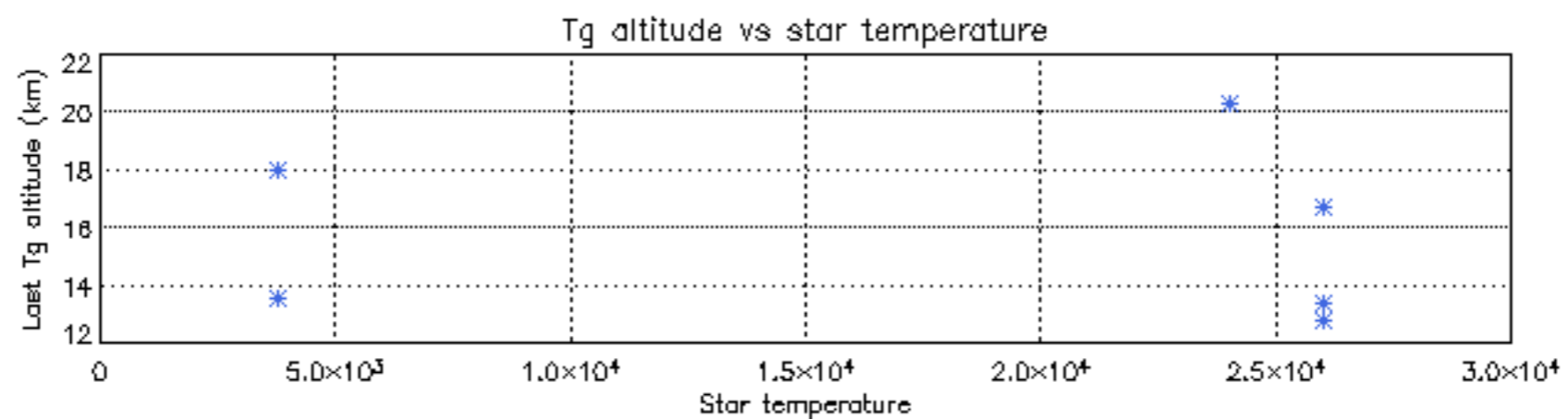
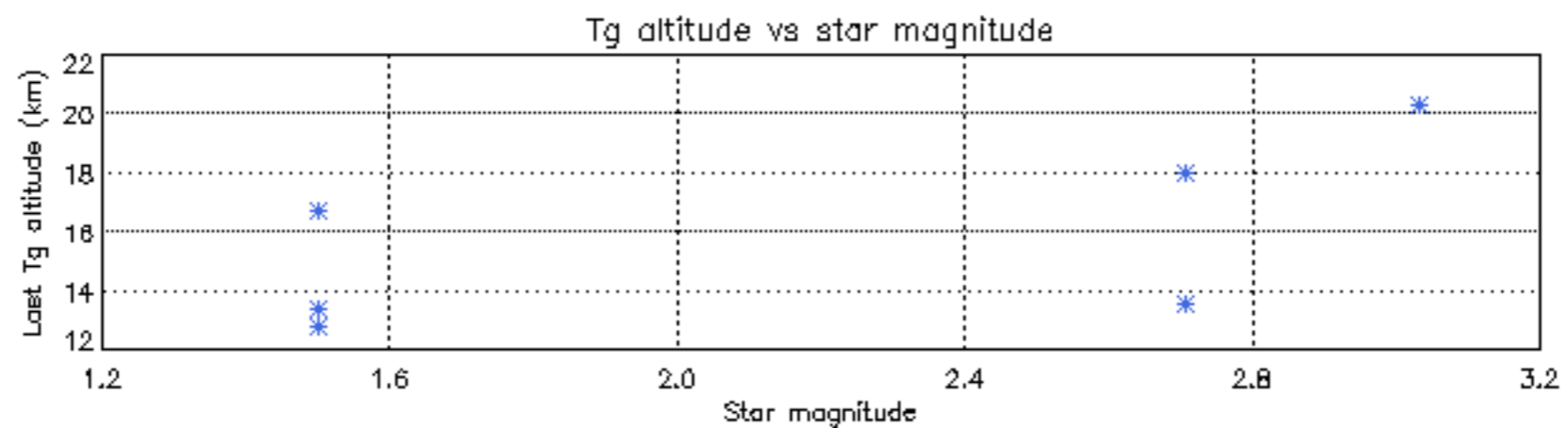
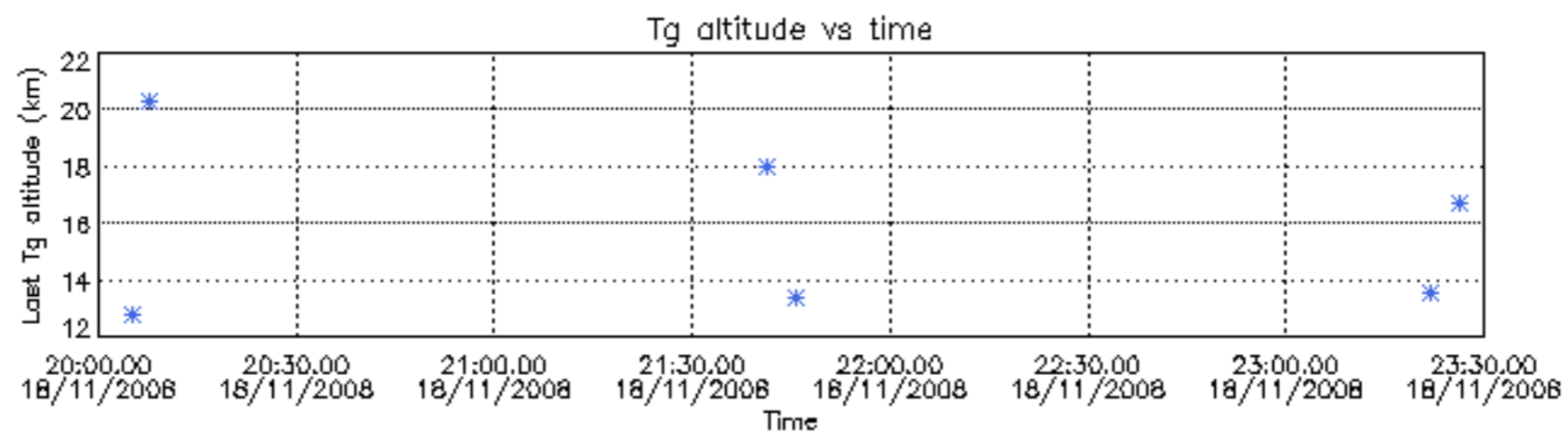
Percentage of star falling outside central band per profile



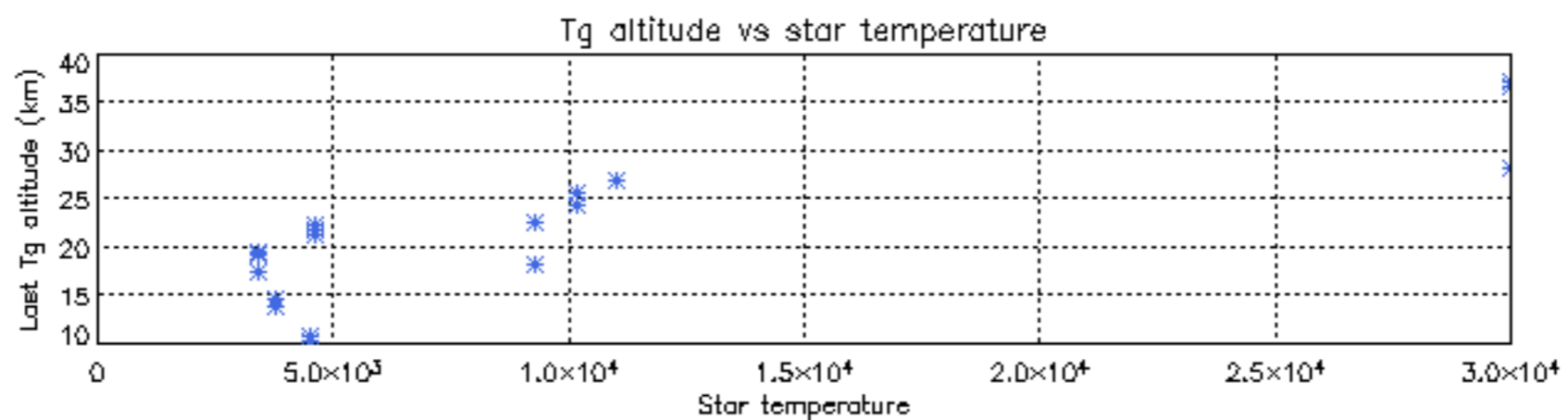
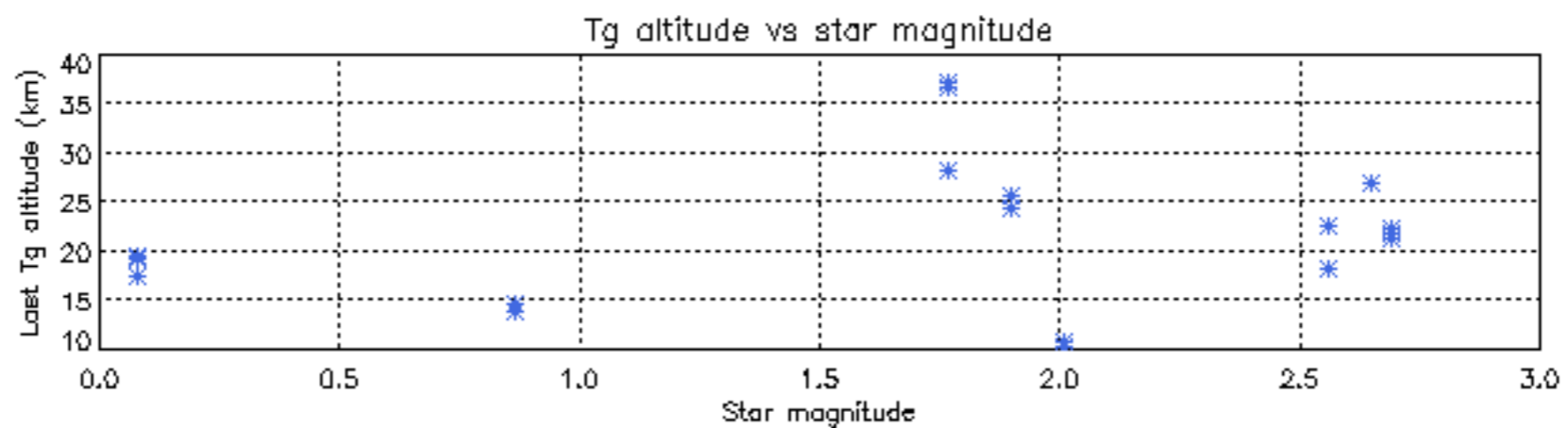
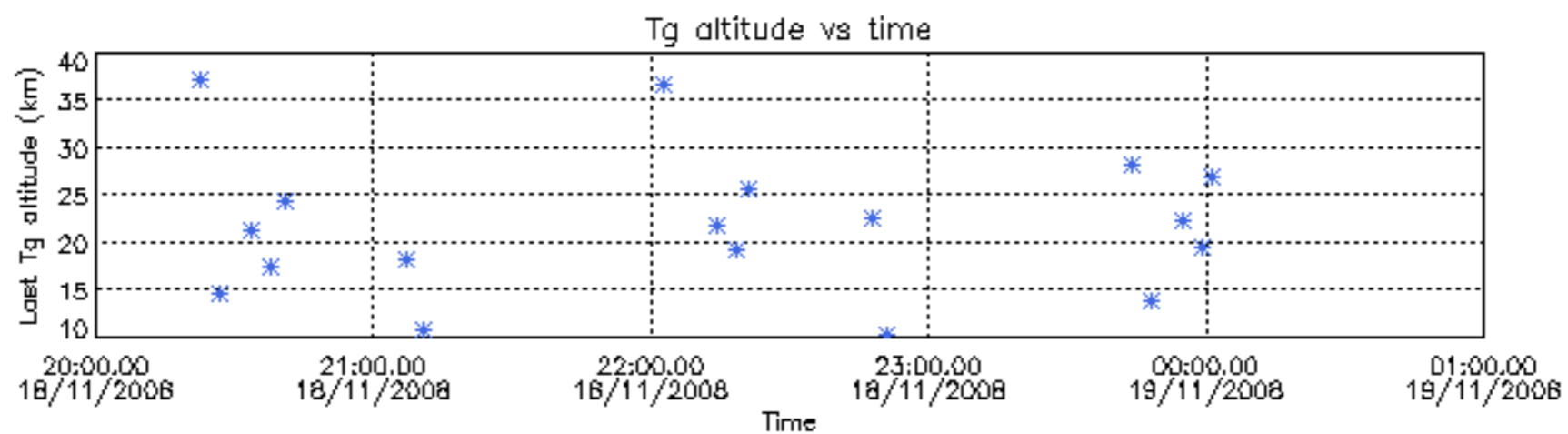
Percentage of saturation errors per profile

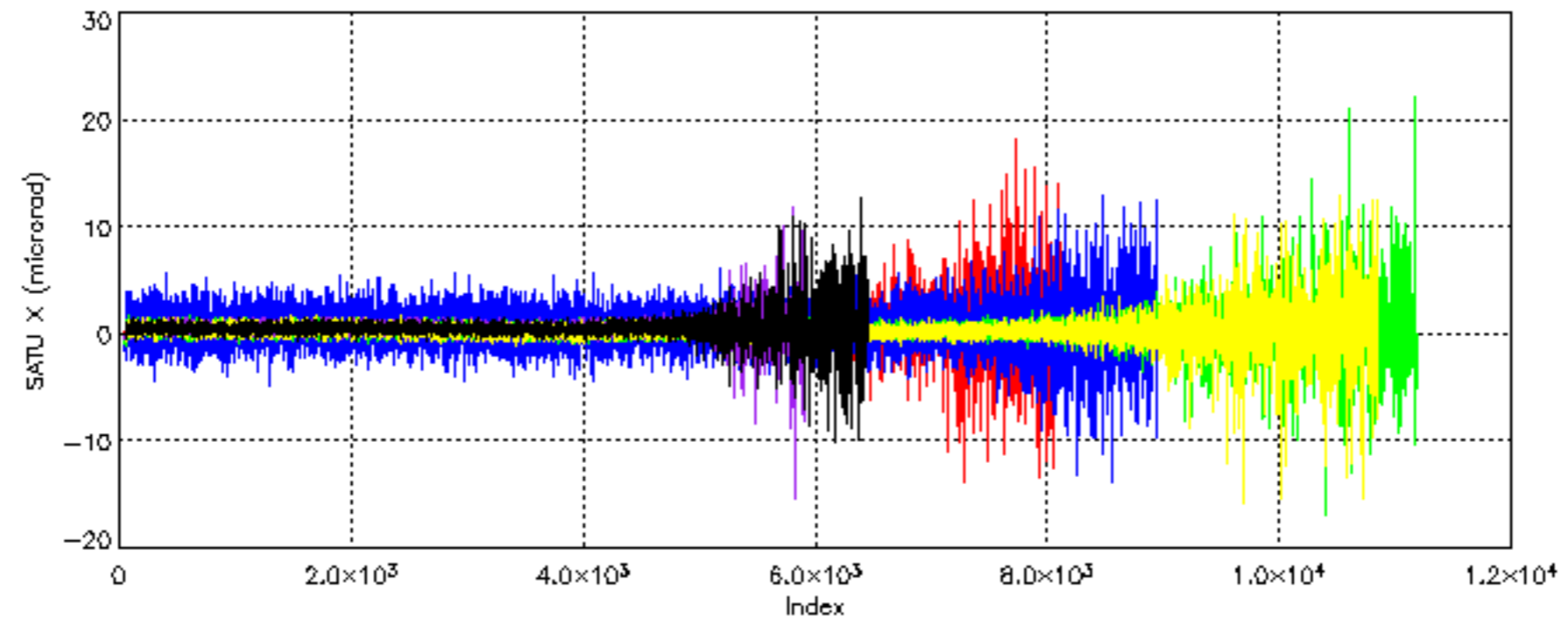


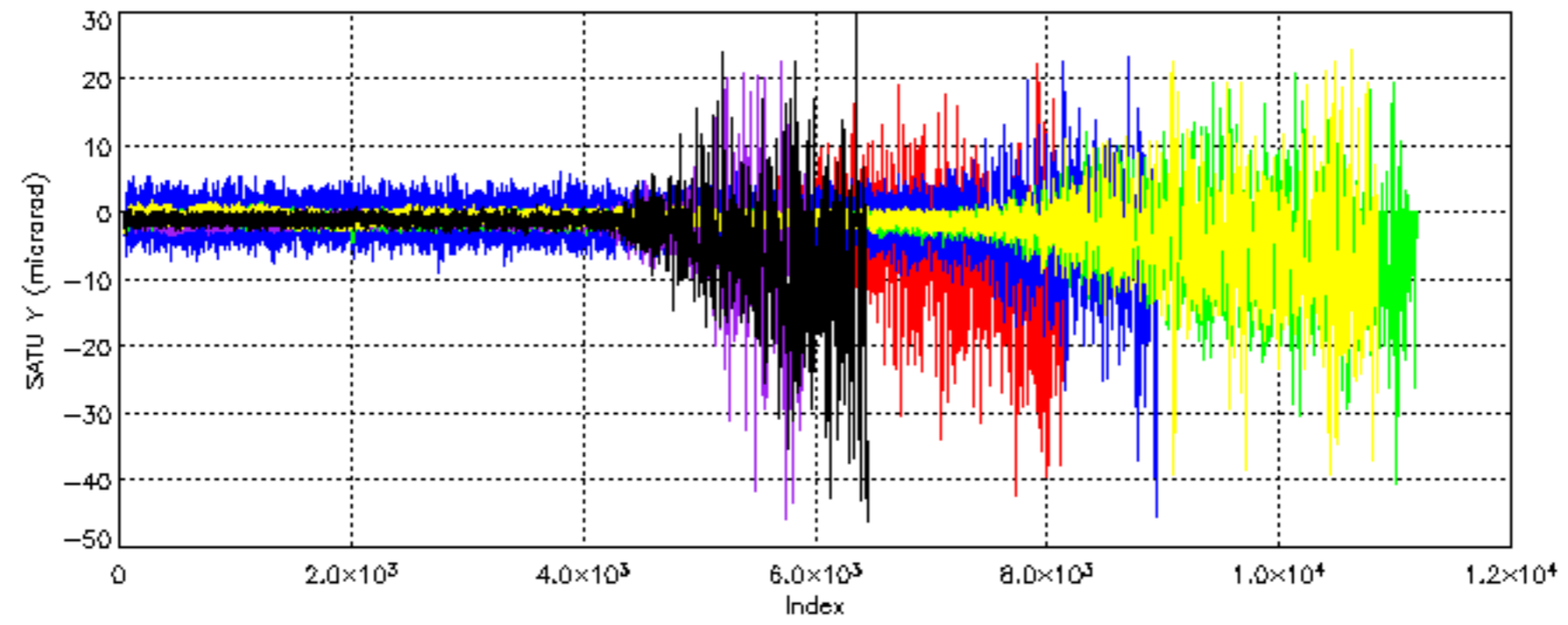
Tangent altitude at which the star is lost

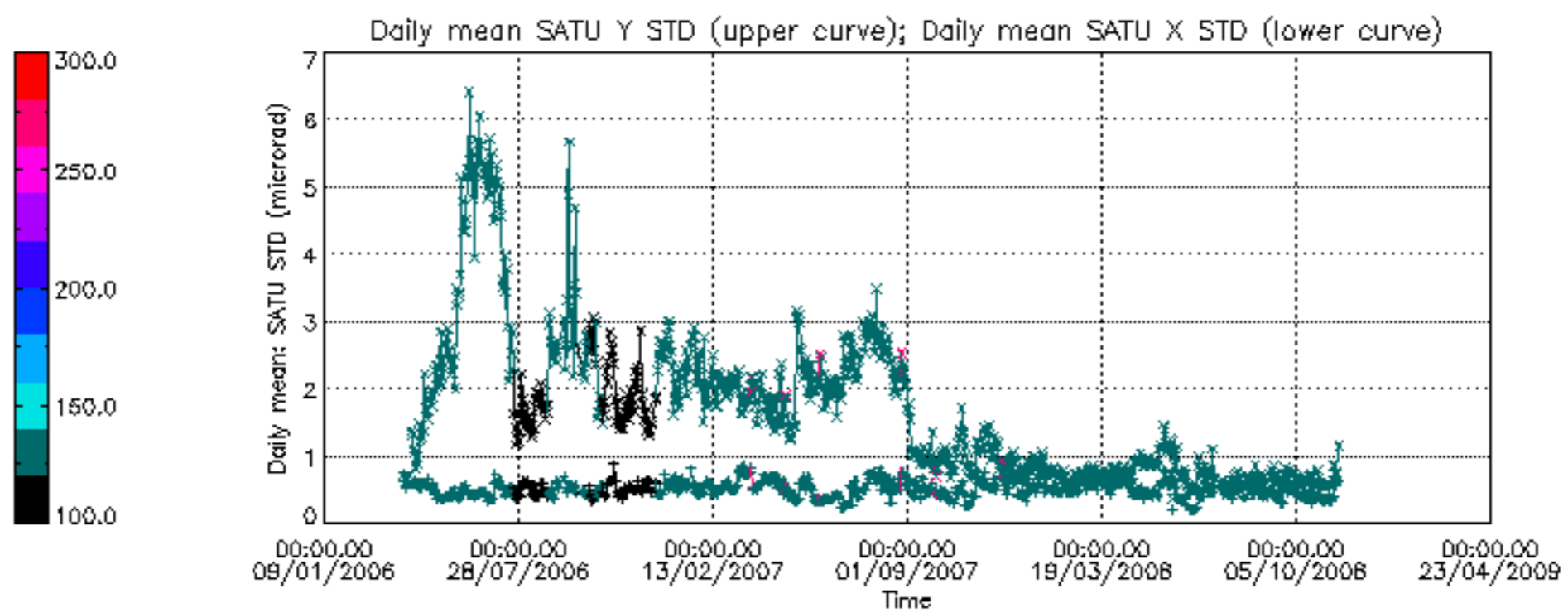


Tangent altitude at which the star is lost









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4; -1357.1; 02-NOV-2008 06:02:43; Bright; 37.0; 96; 68Del Leo ; 2.56; 9300;occ; 74; 0;34900
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6; 68.8; 02-NOV-2008 06:26:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34901
7; 150.4; 02-NOV-2008 06:27:51; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;34901
8; 229.6; 02-NOV-2008 06:29:10; Dark ; 41.0; 41; Eps Car ; 1.86; 4100;occ; 82; 0;34901
9; 541.3; 02-NOV-2008 06:34:22; Dark ; 61.0; 2; Alp Car ; -0.74; 7000;occ; 122; 0;34901
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6; 69.5; 02-NOV-2008 08:07:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34902
7; 151.1; 02-NOV-2008 08:08:27; Dark ; 44.5; 46; Del Vel ; 1.95; 10600;occ; 89; 0;34902
8; 230.2; 02-NOV-2008 08:09:47; Dark ; 42.5; 41; Eps Car ; 1.86; 4100;occ; 85; 0;34902
9; 542.0; 02-NOV-2008 08:14:58; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;34902
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5; 2938.4; 02-NOV-2008 08:54:55; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;34902
6; 3423.6; 02-NOV-2008 09:03:00; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;34902
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4; 2868.4; 02-NOV-2008 10:34:21; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;34903
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9; 246.5; 04-NOV-2008 05:26:13; Dark ; 41.5; 41; Eps Car ; 1.86; 4100;occ; 83; 0;34929
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4; 2647.1; 04-NOV-2008 17:50:25; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;34936
5; 2870.1; 04-NOV-2008 17:54:08; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;34936
6; 3423.3; 04-NOV-2008 18:03:21; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;34936
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9; 4003.7; 04-NOV-2008 18:13:01; Bright; 40.0; 82; 48Bet UMA ; 2.37; 10600;occ; 80; 0;34936
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5; 2872.3; 06-NOV-2008 20:12:07; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;34966
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7; 3667.6; 06-NOV-2008 20:25:23; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;34966
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10; 4229.2; 06-NOV-2008 20:34:44; Bright; 40.5; 174; 52Psi UMa ; 3.00; 4400;occ; 81; 0;34966
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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
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11; 3667.8; 06-NOV-2008 22:05:59; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;34967
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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
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13; 3999.7; 06-NOV-2008 23:52:07; Bright; 51.5; 82; 48Bet UMa ; 2.37; 10600;occ; 103; 0;34968
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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
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9; 4229.4; 06-NOV-2008 08:50:33; Bright; 38.5; 174; 52Psi UMa ; 3.00; 4400;occ; 77; 0;34959
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7; 3998.7; 07-NOV-2008 11:36:17; Bright; 39.0; 82; 48Bet UMa ; 2.37; 10600;occ; 78; 0;34975
8; 4228.9; 07-NOV-2008 11:40:07; Bright; 42.0; 174; 52Psi UMa ; 3.00; 4400;occ; 84; 0;34975

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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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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
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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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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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 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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 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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 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
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 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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 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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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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9; 3681.4; 13-NOV-2008 21:46:05; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;35067
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13; 4326.9; 13-NOV-2008 21:56:50; Bright; 33.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 66; 0;35067
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 4; 2629.0; 14-NOV-2008 09:12:44; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;35074
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 6; 2930.7; 14-NOV-2008 09:17:45; Bright; 34.5; 110; 37Del Cas ; 2.68; 8900;occ; 69; 0;35074
 7; 3422.6; 14-NOV-2008 09:25:57; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;35074
 8; 3682.3; 14-NOV-2008 09:30:17; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;35074
 9; 3884.7; 14-NOV-2008 09:33:39; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;35074
10; 3983.2; 14-NOV-2008 09:35:18; Bright; 40.0; 82; 48Bet UMa ; 2.37; 10600;occ; 80; 0;35074
11; 4118.6; 14-NOV-2008 09:37:33; Bright; 47.5; 39; 85Eta UMa ; 1.85; 24000;occ; 95; 0;35074
12; 4327.6; 14-NOV-2008 09:41:02; Bright; 34.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 68; 0;35074
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
15; 5319.1; 14-NOV-2008 09:57:34; Dark ; 41.0; 100; 4Gam Crv ; 2.58; 13100;occ; 82; 0;35074
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
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21; 6703.0; 14-NOV-2008 10:20:38; Dark ; 45.0; 2; Alp Car ; -0.74; 7000;occ; 90; 0;35074
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2;	2263.7;	14-NOV-2008	10:47:14;	Bright;	;	35.5;	105;	6Bet	Ari	;	2.64;	8900;	occ;	71;	0;	35075
3;	2505.0;	14-NOV-2008	10:51:16;	Bright;	;	35.5;	173;	4Bet	Tri	;	3.00;	8900;	occ;	71;	0;	35075
4;	2628.9;	14-NOV-2008	10:53:19;	Bright;	;	37.0;	73;	57Gam1	And	;	2.26;	13100;	occ;	74;	0;	35075
5;	2821.3;	14-NOV-2008	10:56:32;	Bright;	;	40.0;	35;	33Alp	Per	;	1.79;	6250;	occ;	80;	0;	35075
6;	2930.8;	14-NOV-2008	10:58:21;	Bright;	;	35.5;	110;	37Del	Cas	;	2.68;	8900;	occ;	71;	0;	35075
7;	3422.6;	14-NOV-2008	11:06:33;	Bright;	;	36.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	72;	0;	35075
8;	3682.4;	14-NOV-2008	11:10:53;	Bright;	;	37.0;	60;	7Bet	UMi	;	2.08;	3950;	occ;	74;	0;	35075
9;	3884.5;	14-NOV-2008	11:14:15;	Bright;	;	36.5;	36;	50Alp	UMa	;	1.80;	6300;	occ;	73;	0;	35075
10;	3982.9;	14-NOV-2008	11:15:53;	Bright;	;	39.0;	82;	48Bet	UMa	;	2.37;	10600;	occ;	78;	0;	35075
11;	4118.6;	14-NOV-2008	11:18:09;	Bright;	;	34.0;	39;	85Eta	UMa	;	1.85;	24000;	occ;	68;	0;	35075
12;	4327.7;	14-NOV-2008	11:21:38;	Bright;	;	35.0;	152;	12Alp2	CVn	;	2.89;	11000;	occ;	70;	0;	35075
13;	4805.2;	14-NOV-2008	11:29:36;	Bright;	;	44.5;	62;	94Bet	Leo	;	2.14;	9700;	occ;	89;	0;	35075
14;	5018.9;	14-NOV-2008	11:33:10;	Bright;	;	33.5;	121;	29Gam	Vir	;	2.74;	7200;	occ;	67;	0;	35075
15;	5319.6;	14-NOV-2008	11:38:10;	Dark	;	39.5;	100;	4Gam	Crv	;	2.58;	13100;	occ;	79;	0;	35075
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
18;	6143.7;	14-NOV-2008	11:51:54;	Dark	;	38.5;	124;	The	Car	;	2.76;	30000;	occ;	77;	0;	35075
19;	6245.0;	14-NOV-2008	11:53:36;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	35075
20;	6422.4;	14-NOV-2008	11:56:33;	Dark	;	35.0;	34;	Gam2	Vel	;	1.79;	23000;	occ;	70;	0;	35075
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;	The1	Eri	;	2.91;	9300;	occ;	75;	0;	35075

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2;	2263.8;	14-NOV-2008	12:27:50;	Bright;	;	37.0;	105;	6Bet	Ari	;	2.64;	8900;	occ;	74;	0;	35076
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;	57Gam1	And	;	2.26;	13100;	occ;	75;	0;	35076
5;	2820.8;	14-NOV-2008	12:37:07;	Bright;	;	41.0;	35;	33Alp	Per	;	1.79;	6250;	occ;	82;	0;	35076
6;	2930.8;	14-NOV-2008	12:38:57;	Bright;	;	35.0;	110;	37Del	Cas	;	2.68;	8900;	occ;	70;	0;	35076
7;	3422.5;	14-NOV-2008	12:47:09;	Bright;	;	36.0;	49;	1Alp	UMi	;	1.99;	6300;	occ;	72;	0;	35076
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
10;	3982.7;	14-NOV-2008	12:56:29;	Bright;	;	40.0;	82;	48Bet	UMa	;	2.37;	10600;	occ;	80;	0;	35076
11;	4118.8;	14-NOV-2008	12:58:45;	Bright;	;	35.0;	39;	85Eta	UMa	;	1.85;	24000;	occ;	70;	0;	35076
12;	4327.9;	14-NOV-2008	13:02:14;	Bright;	;	34.0;	152;	12Alp2	CVn	;	2.89;	11000;	occ;	68;	0;	35076
13;	4805.6;	14-NOV-2008	13:10:12;	Bright;	;	39.5;	62;	94Bet	Leo	;	2.14;	9700;	occ;	79;	0;	35076
14;	5019.3;	14-NOV-2008	13:13:46;	Bright;	;	35.0;	121;	29Gam	Vir	;	2.74;	7200;	occ;	70;	0;	35076
15;	5320.1;	14-NOV-2008	13:18:47;	Dark	;	41.0;	100;	4Gam	Crv	;	2.58;	13100;	occ;	82;	0;	35076
16;	5411.0;	14-NOV-2008	13:20:17;	Dark	;	41.5;	171;	2Eps	Crv	;	3.00;	4250;	occ;	83;	0;	35076
17;	5963.8;	14-NOV-2008	13:29:30;	Dark	;	39.5;	113;	Mu	Vel	;	2.69;	5000;	occ;	79;	0;	35076
18;	6144.2;	14-NOV-2008	13:32:31;	Dark	;	37.0;	124;	The	Car	;	2.76;	30000;	occ;	74;	0;	35076
19;	6245.9;	14-NOV-2008	13:34:12;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	35076
20;	6423.4;	14-NOV-2008	13:37:10;	Dark	;	35.0;	34;	Gam2	Vel	;	1.79;	23000;	occ;	70;	0;	35076
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;	The1	Eri	;	2.91;	9300;	occ;	75;	0;	35076

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2;	2263.7;	14-NOV-2008	14:08:26;	Bright;	;	36.5;	105;	6Bet	Ari	;	2.64;	8900;	occ;	73;	0;	35077
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;	57Gam1	And	;	2.26;	13100;	occ;	73;	0;	35077
5;	2820.6;	14-NOV-2008	14:17:43;	Bright;	;	40.0;	35;	33Alp	Per	;	1.79;	6250;	occ;	80;	0;	35077
6;	2930.9;	14-NOV-2008	14:19:33;	Bright;	;	35.0;	110;	37Del	Cas	;	2.68;	8900;	occ;	70;	0;	35077
7;	3422.7;	14-NOV-2008	14:27:45;	Bright;	;	33.5;	49;	1Alp	UMi	;	1.99;	6300;	occ;	67;	0;	35077
8;	3682.8;	14-NOV-2008	14:32:05;	Bright;	;	36.0;	60;	7Bet	UMi	;	2.08;	3950;	occ;	72;	0;	35077
9;	3884.3;	14-NOV-2008	14:35:27;	Bright;	;	58.0;	36;	50Alp	UMa	;	1.80;	6300;	occ;	116;	0;	35077
10;	3982.6;	14-NOV-2008	14:37:05;	Bright;	;	39.0;	82;	48Bet	UMa	;	2.37;	10600;	occ;	78;	0;	35077
11;	4119.0;	14-NOV-2008	14:39:21;	Bright;	;	34.0;	39;	85Eta	UMa	;	1.85;	24000;	occ;	68;	0;	35077
12;	4328.0;	14-NOV-2008	14:42:50;	Bright;	;	35.0;	152;	12Alp2	CVn	;	2.89;	11000;	occ;	70;	0;	35077
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
15;	5320.6;	14-NOV-2008	14:59:23;	Dark	;	38.5;	100;	4Gam	Crv	;	2.58;	13100;	occ;	77;	0;	35077
16;	5411.5;	14-NOV-2008	15:00:54;	Dark	;	40.5;	171;	2Eps	Crv	;	3.00;	4250;	occ;	81;	0;	35077
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;	The1	Eri	;	2.91;	9300;	occ;	73;	0;	35077

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2;	2263.8;	14-NOV-2008	15:49:02;	Bright;	37.0;	105;	6Bet Ari	;	2.64;	8900;	occ;	74;	0;	35078
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
6;	2931.0;	14-NOV-2008	16:00:09;	Bright;	35.5;	110;	37Del Cas	;	2.68;	8900;	occ;	71;	0;	35078
7;	3422.6;	14-NOV-2008	16:08:21;	Bright;	36.0;	49;	1Alp UMi	;	1.99;	6300;	occ;	72;	0;	35078
8;	3682.8;	14-NOV-2008	16:12:41;	Bright;	37.0;	60;	7Bet UMi	;	2.08;	3950;	occ;	74;	0;	35078
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
15;	5321.0;	14-NOV-2008	16:39:59;	Dark ;	41.5;	100;	4Gam Crv	;	2.58;	13100;	occ;	83;	0;	35078
16;	5411.9;	14-NOV-2008	16:41:30;	Dark ;	40.5;	171;	2Eps Crv	;	3.00;	4250;	occ;	81;	0;	35078
17;	5965.1;	14-NOV-2008	16:50:43;	Dark ;	46.0;	113;	Mu Vel	;	2.69;	5000;	occ;	92;	0;	35078

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1;	422.2;	14-NOV-2008	18:39:32;	Dark ;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	35080
2;	600.3;	14-NOV-2008	18:42:31;	Dark ;	101.5;	132;	15Rho Pup	;	2.80;	6900;	occ;	203;	0;	35080
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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1;	951.0;	14-NOV-2008	18:48:21;	Dark ;	81.0;	23;	21Eps CMa	;	1.50;	26000;	occ;	162;	48;	35080
2;	1073.1;	14-NOV-2008	18:50:23;	Dark ;	56.0;	108;	Alp Col	;	2.65;	15200;	occ;	112;	0;	35080
3;	1450.1;	14-NOV-2008	18:56:40;	Dark ;	26.0;	47;	2Bet CMa	;	1.98;	28000;	occ;	52;	0;	35080
4;	1500.1;	14-NOV-2008	18:57:30;	Dark ;	74.0;	101;	11Alp Lep	;	2.58;	7000;	occ;	148;	0;	35080
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
15;	6460.1;	14-NOV-2008	20:20:10;	Dark ;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	35080
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
19;	7109.8;	14-NOV-2008	20:31:00;	Dark ;	22.0;	108;	Alp Col	;	2.65;	15200;	occ;	44;	0;	35080

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1;	-121.9;	15-NOV-2008	01:12:52;	Dark ;	108.0;	48;	30Alp Hya	;	1.98;	4100;	occ;	216;	0;	35083
2;	430.2;	15-NOV-2008	01:22:04;	Dark ;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	35084
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
7;	1451.5;	15-NOV-2008	01:39:05;	Dark ;	34.0;	47;	2Bet CMa	;	1.98;	28000;	occ;	68;	0;	35084
8;	1796.7;	15-NOV-2008	01:44:51;	Dark ;	86.0;	7;	19Bet Ori	;	0.10;	14000;	occ;	172;	0;	35084
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
11;	2559.9;	15-NOV-2008	01:57:34;	Bright;	44.5;	150;	44Zet Per	;	2.89;	28000;	occ;	89;	0;	35084
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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1;	-1196.3;	15-NOV-2008	02:35:33;	Bright;	88.5;	166;	17Eps Leo	;	2.98;	6000;	occ;	177;	0;	35084
2;	-908.1;	15-NOV-2008	02:40:22;	Dark ;	87.5;	22;	32Alp Leo	;	1.36;	15200;	occ;	175;	0;	35084
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
5;	690.5;	15-NOV-2008	03:07:00;	Dark ;	63.0;	117;	Pi Pup	;	2.71;	3800;	occ;	126;	0;	35085
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

10;	1796.5;	15-NOV-2008	03:25:26;	Dark	;	88.5;	7;	19Bet Ori	;	0.10;	14000;occ;	177;	0;	35085
11;	1921.9;	15-NOV-2008	03:27:32;	Dark	;	48.0;	125;	44Iot Ori	;	2.77;	30000;occ;	96;	0;	35085
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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1;	-1195.4;	15-NOV-2008	04:16:10;	Bright;	;	92.5;	166;	17Eps Leo	;	2.98;	6000;occ;	185;	0;	35085
2;	-906.7;	15-NOV-2008	04:20:59;	Dark	;	82.5;	22;	32Alp Leo	;	1.36;	15200;occ;	165;	0;	35085
3;	-116.1;	15-NOV-2008	04:34:10;	Dark	;	110.0;	48;	30Alp Hya	;	1.98;	4100;occ;	220;	0;	35085
4;	434.3;	15-NOV-2008	04:43:20;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	35086
5;	691.7;	15-NOV-2008	04:47:37;	Dark	;	66.0;	117;	Pi Pup	;	2.71;	3800;occ;	132;	0;	35086
6;	797.9;	15-NOV-2008	04:49:24;	Dark	;	77.5;	88;	31Eta CMA	;	2.45;	20000;occ;	155;	0;	35086
7;	934.6;	15-NOV-2008	04:51:40;	Dark	;	81.0;	23;	21Eps CMA	;	1.50;	26000;occ;	162;	0;	35086
8;	1077.0;	15-NOV-2008	04:54:03;	Dark	;	52.5;	108;	Alp Col	;	2.65;	15200;occ;	105;	0;	35086
9;	1452.1;	15-NOV-2008	05:00:18;	Dark	;	38.0;	47;	2Bet CMA	;	1.98;	28000;occ;	76;	0;	35086
10;	1795.9;	15-NOV-2008	05:06:02;	Dark	;	87.0;	7;	19Bet Ori	;	0.10;	14000;occ;	174;	0;	35086
11;	1921.1;	15-NOV-2008	05:08:07;	Dark	;	54.0;	125;	44Iot Ori	;	2.77;	30000;occ;	108;	0;	35086
12;	2363.7;	15-NOV-2008	05:15:29;	Bright;	;	62.5;	13;	87Alp Tau	;	0.87;	3800;occ;	125;	0;	35086
13;	2558.7;	15-NOV-2008	05:18:44;	Bright;	;	43.0;	150;	44Zet Per	;	2.89;	28000;occ;	86;	0;	35086
14;	2781.0;	15-NOV-2008	05:22:27;	Bright;	;	58.5;	114;	3Iot Aur	;	2.69;	4600;occ;	117;	0;	35086
15;	3038.3;	15-NOV-2008	05:26:44;	Bright;	;	60.5;	6;	13Alp Aur	;	0.08;	3400;occ;	121;	0;	35086
16;	3221.5;	15-NOV-2008	05:29:47;	Bright;	;	62.0;	42;	34Bet Aur	;	1.90;	10200;occ;	124;	0;	35086
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1;	-1194.4;	15-NOV-2008	05:56:47;	Bright;	;	94.5;	166;	17Eps Leo	;	2.98;	6000;occ;	189;	0;	35086
2;	-905.3;	15-NOV-2008	06:01:36;	Dark	;	92.0;	22;	32Alp Leo	;	1.36;	15200;occ;	184;	0;	35086
3;	-113.0;	15-NOV-2008	06:14:49;	Dark	;	114.5;	48;	30Alp Hya	;	1.98;	4100;occ;	229;	0;	35086
4;	436.3;	15-NOV-2008	06:23:58;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	35087
5;	692.8;	15-NOV-2008	06:28:15;	Dark	;	61.0;	117;	Pi Pup	;	2.71;	3800;occ;	122;	0;	35087
6;	799.4;	15-NOV-2008	06:30:01;	Dark	;	77.0;	88;	31Eta CMA	;	2.45;	20000;occ;	154;	0;	35087
7;	935.9;	15-NOV-2008	06:32:18;	Dark	;	81.5;	23;	21Eps CMA	;	1.50;	26000;occ;	163;	0;	35087
8;	1077.8;	15-NOV-2008	06:34:39;	Dark	;	53.0;	108;	Alp Col	;	2.65;	15200;occ;	106;	0;	35087
9;	1452.4;	15-NOV-2008	06:40:54;	Dark	;	38.0;	47;	2Bet CMA	;	1.98;	28000;occ;	76;	0;	35087
10;	1795.6;	15-NOV-2008	06:46:37;	Dark	;	84.0;	7;	19Bet Ori	;	0.10;	14000;occ;	168;	0;	35087
11;	1920.2;	15-NOV-2008	06:48:42;	Dark	;	54.0;	125;	44Iot Ori	;	2.77;	30000;occ;	108;	0;	35087
12;	2362.9;	15-NOV-2008	06:56:05;	Bright;	;	61.5;	13;	87Alp Tau	;	0.87;	3800;occ;	123;	0;	35087
13;	2558.0;	15-NOV-2008	06:59:20;	Bright;	;	44.5;	150;	44Zet Per	;	2.89;	28000;occ;	89;	0;	35087
14;	2779.7;	15-NOV-2008	07:03:01;	Bright;	;	58.5;	114;	3Iot Aur	;	2.69;	4600;occ;	117;	0;	35087
15;	3037.2;	15-NOV-2008	07:07:19;	Bright;	;	56.5;	6;	13Alp Aur	;	0.08;	3400;occ;	113;	0;	35087
16;	3219.9;	15-NOV-2008	07:10:22;	Bright;	;	62.5;	42;	34Bet Aur	;	1.90;	10200;occ;	125;	0;	35087
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1;	871.4;	15-NOV-2008	19:56:00;	Dark	;	79.0;	88;	31Eta CMA	;	2.45;	20000;occ;	158;	120;	35095
2;	945.9;	15-NOV-2008	19:57:15;	Dark	;	84.0;	23;	21Eps CMA	;	1.50;	26000;occ;	168;	0;	35095
3;	1082.8;	15-NOV-2008	19:59:32;	Dark	;	54.5;	108;	Alp Col	;	2.65;	15200;occ;	109;	0;	35095
4;	1455.0;	15-NOV-2008	20:05:44;	Dark	;	54.0;	47;	2Bet CMA	;	1.98;	28000;occ;	108;	0;	35095
5;	1792.7;	15-NOV-2008	20:11:22;	Dark	;	82.0;	7;	19Bet Ori	;	0.10;	14000;occ;	164;	0;	35095
6;	1913.3;	15-NOV-2008	20:13:22;	Dark	;	80.0;	125;	44Iot Ori	;	2.77;	30000;occ;	160;	0;	35095
7;	2355.7;	15-NOV-2008	20:20:45;	Bright;	;	62.0;	13;	87Alp Tau	;	0.87;	3800;occ;	124;	0;	35095
8;	2769.9;	15-NOV-2008	20:27:39;	Bright;	;	59.0;	114;	3Iot Aur	;	2.69;	4600;occ;	118;	0;	35095
9;	3028.8;	15-NOV-2008	20:31:58;	Bright;	;	56.0;	6;	13Alp Aur	;	0.08;	3400;occ;	112;	0;	35095
10;	3208.7;	15-NOV-2008	20:34:58;	Bright;	;	64.5;	42;	34Bet Aur	;	1.90;	10200;occ;	129;	0;	35095
11;	4742.0;	15-NOV-2008	21:00:31;	Bright;	;	47.0;	96;	68Del Leo	;	2.56;	9300;occ;	94;	0;	35095
12;	4850.8;	15-NOV-2008	21:02:20;	Dark	;	100.0;	166;	17Eps Leo	;	2.98;	6000;occ;	200;	0;	35095
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1;	-892.4;	15-NOV-2008	21:07:13;	Dark	;	93.5;	22;	32Alp Leo	;	1.36;	15200;occ;	187;	0;	35095
2;	-85.2;	15-NOV-2008	21:20:40;	Dark	;	120.0;	48;	30Alp Hya	;	1.98;	4100;occ;	240;	0;	35095
3;	454.4;	15-NOV-2008	21:29:39;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	35096
4;	703.3;	15-NOV-2008	21:33:48;	Dark	;	65.5;	117;	Pi Pup	;	2.71;	3800;occ;	131;	0;	35096
5;	812.9;	15-NOV-2008	21:35:38;	Dark	;	80.5;	88;	31Eta CMA	;	2.45;	20000;occ;	161;	0;	35096
6;	946.9;	15-NOV-2008	21:37:52;	Dark	;	83.5;	23;	21Eps CMA	;	1.50;	26000;occ;	167;	0;	35096
7;	1083.4;	15-NOV-2008	21:40:08;	Dark	;	52.5;	108;	Alp Col	;	2.65;	15200;occ;	105;	0;	35096
8;	1455.4;	15-NOV-2008	21:46:20;	Dark	;	58.0;	47;	2Bet CMA	;	1.98;	28000;occ;	116;	0;	35096
9;	1792.2;	15-NOV-2008	21:51:57;	Dark	;	83.5;	7;	19Bet Ori	;	0.10;	14000;occ;	167;	0;	35096
10;	1912.3;	15-NOV-2008	21:53:57;	Dark	;	86.0;	125;	44Iot Ori	;	2.77;	30000;occ;	172;	0;	35096
11;	2354.7;	15-NOV-2008	22:01:20;	Bright;	;	62.0;	13;	87Alp Tau	;	0.87;	3800;occ;	124;	0;	35096
12;	2768.6;	15-NOV-2008	22:08:14;	Bright;	;	56.5;	114;	3Iot Aur	;	2.69;	4600;occ;	113;	0;	35096
13;	3027.5;	15-NOV-2008	22:12:33;	Bright;	;	55.0;	6;	13Alp Aur	;	0.08;	3400;occ;	110;	0;	35096

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14; 3207.4; 15-NOV-2008 22:15:32; Bright; 64.5; 42; 34Bet Aur ; 1.90; 10200;occ; 129; 0;35096
15; 4742.4; 15-NOV-2008 22:41:07; Bright; 47.5; 96; 68Del Leo ; 2.56; 9300;occ; 95; 0;35096
16; 4851.8; 15-NOV-2008 22:42:57; Dark ; 106.5; 166; 17Eps Leo ; 2.98; 6000;occ; 213; 0;35096
17; 5144.9; 15-NOV-2008 22:47:50; Dark ; 89.0; 22; 32Alp Leo ; 1.36; 15200;occ; 178; 0;35096
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 2; 456.4; 15-NOV-2008 23:10:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35097
 3; 704.6; 15-NOV-2008 23:14:25; Dark ; 69.0; 117; Pi Pup ; 2.71; 3800;occ; 138; 0;35097
 4; 814.3; 15-NOV-2008 23:16:15; Dark ; 82.0; 88; 31Eta CMa ; 2.45; 20000;occ; 164; 0;35097
 5; 948.2; 15-NOV-2008 23:18:29; Dark ; 75.0; 23; 21Eps CMa ; 1.50; 26000;occ; 150; 0;35097
 6; 1083.8; 15-NOV-2008 23:20:45; Dark ; 54.0; 108; Alp Col ; 2.65; 15200;occ; 108; 0;35097
 7; 1455.7; 15-NOV-2008 23:26:57; Dark ; 58.0; 47; 2Bet CMa ; 1.98; 28000;occ; 116; 0;35097
 8; 1791.9; 15-NOV-2008 23:32:33; Dark ; 83.0; 7; 19Bet Ori ; 0.10; 14000;occ; 166; 0;35097
 9; 1911.5; 15-NOV-2008 23:34:32; Dark ; 86.0; 125; 44Iot Ori ; 2.77; 30000;occ; 172; 0;35097
10; 2353.8; 15-NOV-2008 23:41:55; Bright; 62.0; 13; 87Alp Tau ; 0.87; 3800;occ; 124; 0;35097
11; 2767.6; 15-NOV-2008 23:48:48; Bright; 58.5; 114; 3Iot Aur ; 2.69; 4600;occ; 117; 0;35097
12; 3026.6; 15-NOV-2008 23:53:07; Bright; 55.5; 6; 13Alp Aur ; 0.08; 3400;occ; 111; 0;35097
13; 3205.9; 15-NOV-2008 23:56:07; Bright; 59.0; 42; 34Bet Aur ; 1.90; 10200;occ; 118; 0;35097
14; 4742.8; 16-NOV-2008 00:21:44; Bright; 48.0; 96; 68Del Leo ; 2.56; 9300;occ; 96; 0;35097
15; 4852.8; 16-NOV-2008 00:23:34; Dark ; 104.0; 166; 17Eps Leo ; 2.98; 6000;occ; 208; 0;35097
16; 5146.4; 16-NOV-2008 00:28:27; Dark ; 88.0; 22; 32Alp Leo ; 1.36; 15200;occ; 176; 0;35097
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 1; -1193.3; 15-NOV-2008 07:37:24; Bright; 90.5; 166; 17Eps Leo ; 2.98; 6000;occ; 181; 0;35087
 2; -903.9; 15-NOV-2008 07:42:14; Dark ; 89.0; 22; 32Alp Leo ; 1.36; 15200;occ; 178; 0;35087
 3; -110.0; 15-NOV-2008 07:55:28; Dark ; 131.5; 48; 30Alp Hya ; 1.98; 4100;occ; 263; 0;35087
 4; 438.3; 15-NOV-2008 08:04:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35088
 5; 694.0; 15-NOV-2008 08:08:52; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;35088
 6; 800.8; 15-NOV-2008 08:10:38; Dark ; 79.0; 88; 31Eta CMa ; 2.45; 20000;occ; 158; 0;35088
 7; 937.1; 15-NOV-2008 08:12:55; Dark ; 77.5; 23; 21Eps CMa ; 1.50; 26000;occ; 155; 0;35088
 8; 1078.3; 15-NOV-2008 08:15:16; Dark ; 53.0; 108; Alp Col ; 2.65; 15200;occ; 106; 0;35088
 9; 1452.8; 15-NOV-2008 08:21:30; Dark ; 41.5; 47; 2Bet CMa ; 1.98; 28000;occ; 83; 0;35088
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 2; 1919.2; 15-NOV-2008 08:29:17; Dark ; 61.0; 125; 44Iot Ori ; 2.77; 30000;occ; 122; 0;35088
 3; 2361.9; 15-NOV-2008 08:36:40; Bright; 61.0; 13; 87Alp Tau ; 0.87; 3800;occ; 122; 0;35088
 4; 2557.5; 15-NOV-2008 08:39:55; Bright; 44.0; 150; 44Zet Per ; 2.89; 28000;occ; 88; 0;35088
 5; 2778.4; 15-NOV-2008 08:43:36; Bright; 60.5; 114; 3Iot Aur ; 2.69; 4600;occ; 121; 0;35088
 6; 3036.2; 15-NOV-2008 08:47:54; Bright; 56.0; 6; 13Alp Aur ; 0.08; 3400;occ; 112; 0;35088
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 8; 4739.4; 15-NOV-2008 09:16:17; Bright; 45.0; 96; 68Del Leo ; 2.56; 9300;occ; 90; 0;35088
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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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13; 6747.7; 16-NOV-2008 09:18:08; Dark ; 69.0; 117; Pi Pup ; 2.71; 3800;occ; 138; 0;35102
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6; 3020.6; 16-NOV-2008 09:56:37; Bright; 64.0; 6; 13Alp Aur ; 0.08; 3400;occ; 128; 0;35103
7; 3197.9; 16-NOV-2008 09:59:34; Bright; 58.0; 42; 34Bet Aur ; 1.90; 10200;occ; 116; 0;35103
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6; 2321.1; 18-NOV-2008 20:25:55; Bright; 58.5; 13; 87Alp Tau ; 0.87; 3800;occ; 117; 0;35138
7; 2722.4; 18-NOV-2008 20:32:36; Bright; 54.5; 114; 3Iot Aur ; 2.69; 4600;occ; 109; 0;35138
8; 2985.9; 18-NOV-2008 20:37:00; Bright; 55.0; 6; 13Alp Aur ; 0.08; 3400;occ; 110; 0;35138
9; 3151.1; 18-NOV-2008 20:39:45; Bright; 58.0; 42; 34Bet Aur ; 1.90; 10200;occ; 116; 0;35138
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13; 4907.5; 18-NOV-2008 22:49:37; Dark ; 94.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 188; 0;35139
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13; 4908.4; 19-NOV-2008 00:30:14; Dark ; 93.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 186; 0;35140
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13; 7180.1; 19-NOV-2008 09:31:05; Dark ; 92.0; 179; 240mi2CMa ; 3.03; 24000;occ; 184; 0;35145
14; 7505.8; 19-NOV-2008 09:36:31; Dark ; 99.5; 47; 2Bet CMa ; 1.98; 28000;occ; 199; 0;35145
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3; 569.6; 21-NOV-2008 21:43:05; Dark ; 55.0; 70; Zet Pup ; 2.25; 39000;occ; 110; 0;35182
4; 799.4; 21-NOV-2008 21:46:55; Dark ; 69.0; 117; Pi Pup ; 2.71; 3800;occ; 138; 0;35182
5; 1041.8; 21-NOV-2008 21:50:57; Dark ; 74.5; 23; 21Eps CMA ; 1.50; 26000;occ; 149; 0;35182
6; 1180.3; 21-NOV-2008 21:53:15; Dark ; 84.0; 179; 240mi2CMA ; 3.03; 24000;occ; 168; 0;35182
7; 1479.0; 21-NOV-2008 21:58:14; Dark ; 87.0; 47; 2Bet CMA ; 1.98; 28000;occ; 174; 0;35182
8; 1769.4; 21-NOV-2008 22:03:05; Dark ; 67.5; 7; 19Bet Ori ; 0.10; 14000;occ; 135; 0;35182
9; 2005.4; 21-NOV-2008 22:07:01; Dark ; 83.0; 30; 46Eps Ori ; 1.69; 30000;occ; 166; 0;35182
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13; 3095.6; 21-NOV-2008 22:25:11; Bright; 58.0; 42; 34Bet Aur ; 1.90; 10200;occ; 116; 0;35182
14; 4212.3; 21-NOV-2008 22:43:47; Bright; 48.5; 174; 52Psi UMa ; 3.00; 4400;occ; 97; 0;35182
15; 4781.5; 21-NOV-2008 22:53:17; Bright; 54.5; 96; 68Del Leo ; 2.56; 9300;occ; 109; 0;35182
16; 4954.5; 21-NOV-2008 22:56:10; Dark ; 108.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 217; 0;35182
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4; 800.4; 21-NOV-2008 23:27:31; Dark ; 73.0; 117; Pi Pup ; 2.71; 3800;occ; 146; 0;35183
5; 1042.7; 21-NOV-2008 23:31:34; Dark ; 74.5; 23; 21Eps CMA ; 1.50; 26000;occ; 149; 0;35183

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14; 4212.1; 22-NOV-2008 00:24:23; Bright; 47.0; 174; 52Psi UMa ; 3.00; 4400;occ; 94; 0;35183
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4; 2687.9; 21-NOV-2008 07:13:00; Bright; 54.5; 114; 3Iot Aur ; 2.69; 4600;occ; 109; 0;35173
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8; 4777.0; 21-NOV-2008 07:47:49; Bright; 78.0; 96; 68Del Leo ; 2.56; 9300;occ; 156; 0;35173
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6; 3105.4; 21-NOV-2008 09:00:33; Bright; 58.5; 42; 34Bet Aur ; 1.90; 10200;occ; 117; 0;35174
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5; 1477.2; 21-NOV-2008 10:14:01; Dark ; 90.5; 47; 2Bet CMA ; 1.98; 28000;occ; 181; 0;35175
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7; 4213.3; 21-NOV-2008 10:59:37; Bright; 46.5; 174; 52Psi UMa ; 3.00; 4400;occ; 93; 0;35175
8; 4777.8; 21-NOV-2008 11:09:01; Bright; 52.5; 96; 68Del Leo ; 2.56; 9300;occ; 105; 0;35175
9; 4946.1; 21-NOV-2008 11:11:50; Dark ; 99.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 199; 0;35175
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11; 6647.3; 21-NOV-2008 11:40:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35175
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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
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9; 4779.0; 21-NOV-2008 14:30:14; Bright; 53.0; 96; 68Del Leo ; 2.56; 9300;occ; 106; 0;35177
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4; 88.3; 24-NOV-2008 04:54:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35215
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 8; 1210.3; 24-NOV-2008 06:54:07; Dark ; 82.5; 179; 240mi2CMA ; 3.03; 24000;occ; 165; 0;35216
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4; 1106.7; 27-NOV-2008 00:15:45; Dark ; 71.0; 23; 21Eps CMA ; 1.50; 26000;occ; 142; 0;35255
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9; 2129.7; 27-NOV-2008 00:32:48; Dark ; 79.0; 27; 24Gam Ori ; 1.64; 26000;occ; 158; 0;35255
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12; 2886.1; 27-NOV-2008 00:45:24; Bright; 49.0; 6; 13Alp Aur ; 0.08; 3400;occ; 98; 0;35255
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3; 872.4; 27-NOV-2008 01:52:27; Dark ; 60.0; 117; Pi Pup ; 2.71; 3800;occ; 120; 0;35256
4; 1107.6; 27-NOV-2008 01:56:22; Dark ; 70.5; 23; 21Eps CMA ; 1.50; 26000;occ; 141; 0;35256
5; 1241.2; 27-NOV-2008 01:58:36; Dark ; 77.5; 179; 240mi2CMA ; 3.03; 24000;occ; 155; 0;35256
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4; 655.3; 27-NOV-2008 03:29:25; Dark ; 53.5; 70; Zet Pup ; 2.25; 39000;occ; 107; 0;35257
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6; 1108.6; 27-NOV-2008 03:36:59; Dark ; 67.5; 23; 21Eps CMA ; 1.50; 26000;occ; 135; 0;35257
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6; 1109.3; 27-NOV-2008 05:17:36; Dark ; 68.5; 23; 21Eps CMA ; 1.50; 26000;occ; 137; 0;35258
7; 1242.8; 27-NOV-2008 05:19:49; Dark ; 76.5; 179; 240mi2CMA ; 3.03; 24000;occ; 153; 0;35258
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11; 2127.8; 27-NOV-2008 05:34:34; Dark ; 71.0; 27; 24Gam Ori ; 1.64; 26000;occ; 142; 0;35258
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13; 2618.3; 27-NOV-2008 05:42:45; Bright; 49.0; 114; 3Iot Aur ; 2.69; 4600;occ; 98; 0;35258
14; 2883.9; 27-NOV-2008 05:47:10; Bright; 47.5; 6; 13Alp Aur ; 0.08; 3400;occ; 95; 0;35258
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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
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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
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12; 4197.4; 27-NOV-2008 21:14:27; Bright; 48.5; 174; 52Psi UMa ; 3.00; 4400;occ; 97; 0;35267
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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
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10; 2246.1; 27-NOV-2008 22:22:32; Bright; 84.0; 14; 58Alp Ori ; 0.87; 3000;occ; 168; 0;35268
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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
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3; 203.2; 27-NOV-2008 06:43:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35259
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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
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7; 2096.7; 30-NOV-2008 19:04:36; Dark ; 58.5; 27; 24Gam Ori ; 1.64; 26000;occ; 117; 0;35309
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9; 2470.9; 30-NOV-2008 19:10:50; Bright; 38.0; 150; 44Zet Per ; 2.89; 28000;occ; 76; 0;35309
10; 2616.6; 30-NOV-2008 19:13:16; Bright; 39.5; 149; 45Eps Per ; 2.89; 30000;occ; 79; 0;35309
11; 2848.1; 30-NOV-2008 19:17:07; Bright; 48.5; 6; 13Alp Aur ; 0.08; 3400;occ; 97; 0;35309
12; 2957.8; 30-NOV-2008 19:18:57; Bright; 51.0; 42; 34Bet Aur ; 1.90; 10200;occ; 102; 0;35309
13; 3821.2; 30-NOV-2008 19:33:20; Bright; 45.5; 36; 50Alp UMa ; 1.80; 6300;occ; 91; 0;35309
14; 3917.5; 30-NOV-2008 19:34:56; Bright; 43.5; 82; 48Bet UMa ; 2.37; 10600;occ; 87; 0;35309
15; 4014.8; 30-NOV-2008 19:36:34; Bright; 37.5; 32; 77Eps UMa ; 1.76; 11000;occ; 75; 0;35309
16; 4187.6; 30-NOV-2008 19:39:27; Bright; 53.5; 174; 52Psi UMa ; 3.00; 4400;occ; 107; 0;35309
17; 4348.4; 30-NOV-2008 19:42:07; Bright; 38.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 76; 0;35309
18; 4923.2; 30-NOV-2008 19:51:42; Bright; 55.5; 62; 94Bet Leo ; 2.14; 9700;occ; 111; 0;35309
19; 5120.6; 30-NOV-2008 19:55:00; Bright; 42.5; 121; 29Gam Vir ; 2.74; 7200;occ; 85; 0;35309
20; 5460.8; 30-NOV-2008 20:00:40; Dark ; 45.0; 100; 4Gam Crv ; 2.58; 13100;occ; 90; 0;35309
21; 5556.6; 30-NOV-2008 20:02:16; Dark ; 46.0; 171; 2Eps Crv ; 3.00; 4250;occ; 92; 0;35309
22; 6443.9; 30-NOV-2008 20:17:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35309
23; 6642.4; 30-NOV-2008 20:20:21; Dark ; 47.5; 34; Gam2Vel ; 1.79; 23000;occ; 95; 0;35309
24; 6748.1; 30-NOV-2008 20:22:07; Dark ; 57.0; 70; Zet Pup ; 2.25; 39000;occ; 114; 0;35309
25; 6956.3; 30-NOV-2008 20:25:35; Dark ; 58.0; 117; Pi Pup ; 2.71; 3800;occ; 116; 0;35309

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