

GOMOS Daily Report 09-NOV-2008

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

[2. Summary of products arrived in PCF \(Product Control Facility\)](#)

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

[3. Plot of Spectrometers and Photometers temperatures](#)

[4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

[5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

[6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

[7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

[Level 2 products](#)

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	11NOV2008 05:36:49
Data source version	GOMOS/5.00
Start time of products	09NOV2008 00:00:31
Stop time of products	09NOV2008 05:08:32
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

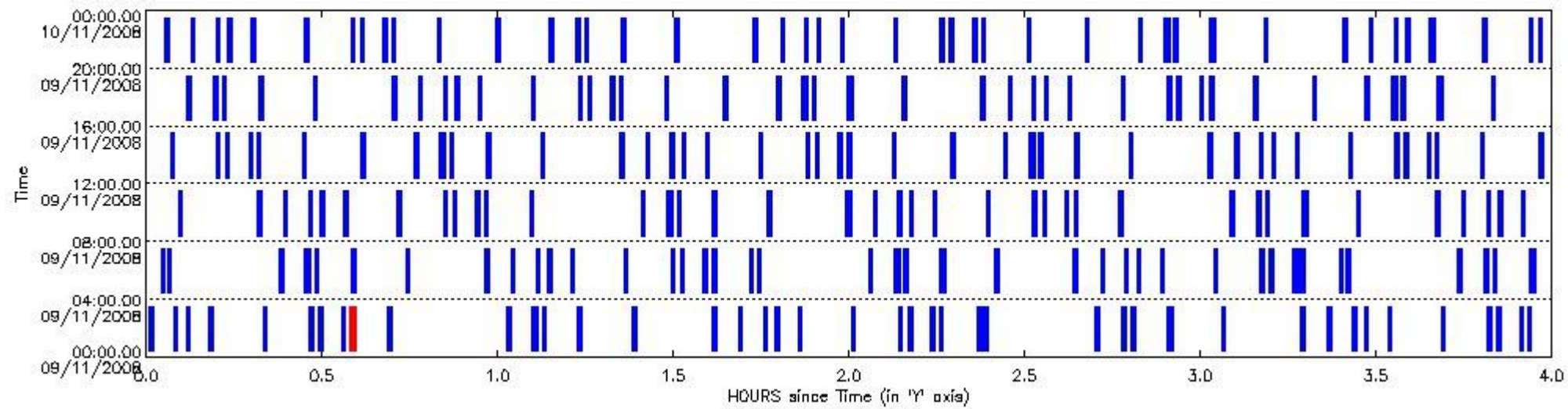
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

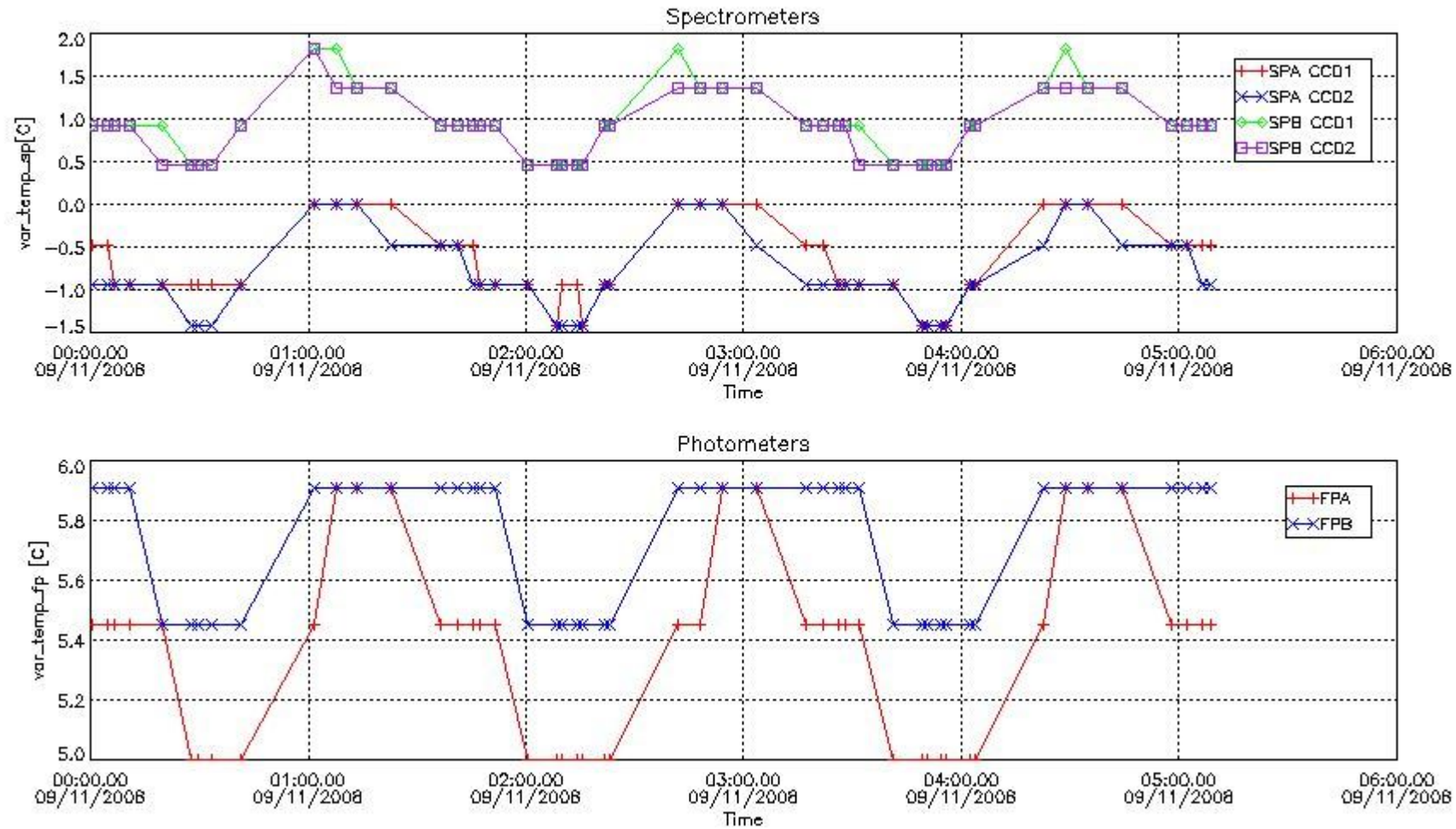
UTC start time	Star name	Star ID	Orbit
09-NOV-2008 00:34:49	12Alp2CVn	152	34997

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_1PNPDE20081109_000031_000000372073_00374_34997_7674.N1	09-NOV-2008 00:00:31	Bright	37.000	105	6Bet Ari	2.6450	8900.0	74	34997	No
2	GOM_TRA_1PNPDE20081109_000446_000000362073_00374_34997_7675.N1	09-NOV-2008 00:04:46	Bright	35.500	53	43Bet And	2.0480	3300.0	71	34997	No
3	GOM_TRA_1PNPDE20081109_000645_000000372073_00374_34997_7676.N1	09-NOV-2008 00:06:45	Bright	37.000	73	57Gam1And	2.2600	13100.	74	34997	No
4	GOM_TRA_1PNPDE20081109_001044_000000352073_00374_34997_7677.N1	09-NOV-2008 00:10:44	Bright	35.000	68	18Alp Cas	2.2250	4500.0	70	34997	No
5	GOM_TRA_1PNPDE20081109_001951_000000372073_00374_34997_7678.N1	09-NOV-2008 00:19:51	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	34997	No
6	GOM_TRA_1PNPDE20081109_002747_000000402073_00374_34997_7679.N1	09-NOV-2008 00:27:47	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	34997	No
7	GOM_TRA_1PNPDE20081109_002925_000000452073_00374_34997_7680.N1	09-NOV-2008 00:29:25	Bright	44.500	82	48Bet UMa	2.3650	10600.	89	34997	No
8	GOM_TRA_1PNPDE20081109_003317_000000422073_00374_34997_7681.N1	09-NOV-2008 00:33:17	Bright	42.000	174	52Psi UMa	3.0040	4400.0	84	34997	No
9	GOM_TRA_1PNPDE20081109_004116_000000412073_00374_34997_7682.N1	09-NOV-2008 00:41:16	Bright	41.000	96	68Del Leo	2.5600	9300.0	82	34997	No
10	GOM_TRA_1PNPDE20081109_010128_000000452073_00374_34997_7818.N1	09-NOV-2008 01:01:28	Dark	45.000	113	Mu Vel	2.6920	5000.0	90	34997	No

11	GOM_TRA_1PNPDE20081109_010735_000000382073_00375_34998_7819.N1	09-NOV-2008 01:07:35	Dark	37.500	29	Bet Car	1.6720	10200.	75	34998	No
12	GOM_TRA_1PNPDE20081109_011338_000000492073_00375_34998_7820.N1	09-NOV-2008 01:13:38	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	34998	No
13	GOM_TRA_1PNPDE20081109_012302_000000382073_00375_34998_7821.N1	09-NOV-2008 01:23:02	Straylight	38.000	157	The1Eri	2.9060	9300.0	76	34998	No
14	GOM_TRA_1PNPDE20081109_013629_000000502073_00375_34998_7822.N1	09-NOV-2008 01:36:29	Tw_i_and_stray	49.500	94	92Alp Cet	2.5260	3100.0	99	34998	No
15	GOM_TRA_1PNPDE20081109_014107_000000362073_00375_34998_7823.N1	09-NOV-2008 01:41:07	Bright	36.000	105	6Bet Ari	2.6450	8900.0	72	34998	No
16	GOM_TRA_1PNPDE20081109_014522_000000382073_00375_34998_7824.N1	09-NOV-2008 01:45:22	Bright	37.500	53	43Bet And	2.0480	3300.0	75	34998	No
17	GOM_TRA_1PNPDE20081109_014721_000000402073_00375_34998_7825.N1	09-NOV-2008 01:47:21	Bright	39.500	73	57Gam1And	2.2600	13100.	79	34998	No
18	GOM_TRA_1PNPDE20081109_015120_000000342073_00375_34998_7826.N1	09-NOV-2008 01:51:20	Bright	34.000	68	18Alp Cas	2.2250	4500.0	68	34998	No
19	GOM_TRA_1PNPDE20081109_020027_000000332073_00375_34998_7827.N1	09-NOV-2008 02:00:27	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	34998	No
20	GOM_TRA_1PNPDE20081109_020822_000000402073_00375_34998_7976.N1	09-NOV-2008 02:08:22	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	34998	No
21	GOM_TRA_1PNPDE20081109_021000_000000582073_00375_34998_7977.N1	09-NOV-2008 02:10:00	Bright	58.000	82	48Bet UMa	2.3650	10600.	116	34998	No
22	GOM_TRA_1PNPDE20081109_021353_000000402073_00375_34998_7978.N1	09-NOV-2008 02:13:53	Bright	40.000	174	52Psi UMa	3.0040	4400.0	80	34998	No
23	GOM_TRA_1PNPDE20081109_021523_000000342073_00375_34998_7979.N1	09-NOV-2008 02:15:23	Bright	34.000	152	12Alp2CVn	2.8900	11000.	68	34998	No
24	GOM_TRA_1PNPDE20081109_022152_000000432073_00375_34998_7980.N1	09-NOV-2008 02:21:52	Bright	42.500	96	68Del Leo	2.5600	9300.0	85	34998	No
25	GOM_TRA_1PNPDE20081109_022304_000000382073_00375_34998_7981.N1	09-NOV-2008 02:23:04	Bright	37.500	62	94Bet Leo	2.1360	9700.0	75	34998	No
26	GOM_TRA_1PNPDE20081109_024205_000000412073_00375_34998_7982.N1	09-NOV-2008 02:42:05	Dark	41.000	113	Mu Vel	2.6920	5000.0	82	34998	No
27	GOM_TRA_1PNPDE20081109_024811_000000402073_00376_34999_7983.N1	09-NOV-2008 02:48:11	Dark	40.000	29	Bet Car	1.6720	10200.	80	34999	No
28	GOM_TRA_1PNPDE20081109_025414_000000622073_00376_34999_7984.N1	09-NOV-2008 02:54:14	Dark	61.500	2	Alp Car	-0.73600	7000.0	123	34999	No
29	GOM_TRA_1PNPDE20081109_030338_000000402073_00376_34999_7985.N1	09-NOV-2008 03:03:38	Straylight	39.500	157	The1Eri	2.9060	9300.0	79	34999	No
30	GOM_TRA_1PNPDE20081109_031705_000000522073_00376_34999_7986.N1	09-NOV-2008 03:17:05	Tw_i_and_stray	52.000	94	92Alp Cet	2.5260	3100.0	104	34999	No
31	GOM_TRA_1PNPDE20081109_032143_000000382073_00376_34999_7987.N1	09-NOV-2008 03:21:43	Bright	37.500	105	6Bet Ari	2.6450	8900.0	75	34999	No
32	GOM_TRA_1PNPDE20081109_032558_000000392073_00376_34999_7988.N1	09-NOV-2008 03:25:58	Bright	38.500	53	43Bet And	2.0480	3300.0	77	34999	No
33	GOM_TRA_1PNPDE20081109_032757_000000382073_00376_34999_7989.N1	09-NOV-2008 03:27:57	Bright	37.500	73	57Gam1And	2.2600	13100.	75	34999	No
34	GOM_TRA_1PNPDE20081109_033156_000000362073_00376_34999_7990.N1	09-NOV-2008 03:31:56	Bright	35.500	68	18Alp Cas	2.2250	4500.0	71	34999	No
35	GOM_TRA_1PNPDE20081109_034103_000000332073_00376_34999_7991.N1	09-NOV-2008 03:41:03	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	34999	No
36	GOM_TRA_1PNPDE20081109_034858_000000402073_00376_34999_8162.N1	09-NOV-2008 03:48:58	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	34999	No
37	GOM_TRA_1PNPDE20081109_035036_000000392073_00376_34999_8163.N1	09-NOV-2008 03:50:36	Bright	38.500	82	48Bet UMa	2.3650	10600.	77	34999	No
38	GOM_TRA_1PNPDE20081109_035429_000000392073_00376_34999_8164.N1	09-NOV-2008 03:54:29	Bright	38.500	174	52Psi UMa	3.0040	4400.0	77	34999	No
39	GOM_TRA_1PNPDE20081109_035559_000000342073_00376_34999_8165.N1	09-NOV-2008 03:55:59	Bright	33.500	152	12Alp2CVn	2.8900	11000.	67	34999	No
40	GOM_TRA_1PNPDE20081109_040228_000000432073_00376_34999_8166.N1	09-NOV-2008 04:02:28	Bright	43.000	96	68Del Leo	2.5600	9300.0	86	34999	No
41	GOM_TRA_1PNPDE20081109_040340_000000392073_00376_34999_8167.N1	09-NOV-2008 04:03:40	Bright	38.500	62	94Bet Leo	2.1360	9700.0	77	34999	No
42	GOM_TRA_1PNPDE20081109_042241_000000442073_00376_34999_8168.N1	09-NOV-2008 04:22:41	Dark	44.000	113	Mu Vel	2.6920	5000.0	88	34999	No
43	GOM_TRA_1PNPDE20081109_042848_000000392073_00377_35000_8169.N1	09-NOV-2008 04:28:48	Dark	39.000	29	Bet Car	1.6720	10200.	78	35000	No
44	GOM_TRA_1PNPDE20081109_043451_000000542073_00377_35000_8170.N1	09-NOV-2008 04:34:51	Dark	53.500	2	Alp Car	-0.73600	7000.0	107	35000	No
45	GOM_TRA_1PNPDE20081109_044414_000000402073_00377_35000_8171.N1	09-NOV-2008 04:44:14	Straylight	40.000	157	The1Eri	2.9060	9300.0	80	35000	No
46	GOM_TRA_1PNPDE20081109_045741_000000522073_00377_35000_8172.N1	09-NOV-2008 04:57:41	Tw_i_and_stray	52.000	94	92Alp Cet	2.5260	3100.0	104	35000	No
47	GOM_TRA_1PNPDE20081109_050219_000000382073_00377_35000_8173.N1	09-NOV-2008 05:02:19	Bright	38.000	105	6Bet Ari	2.6450	8900.0	76	35000	No
48	GOM_TRA_1PNPDE20081109_050629_000000382073_00377_35000_8174.N1	09-NOV-2008 05:06:29	Bright	37.500	173	4Bet Tri	3.0040	8900.0	75	35000	No
49	GOM_TRA_1PNPDE20081109_050832_000000372073_00377_35000_8175.N1	09-NOV-2008 05:08:32	Bright	37.000	73	57Gam1And	2.2600	13100.	74	35000	No

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



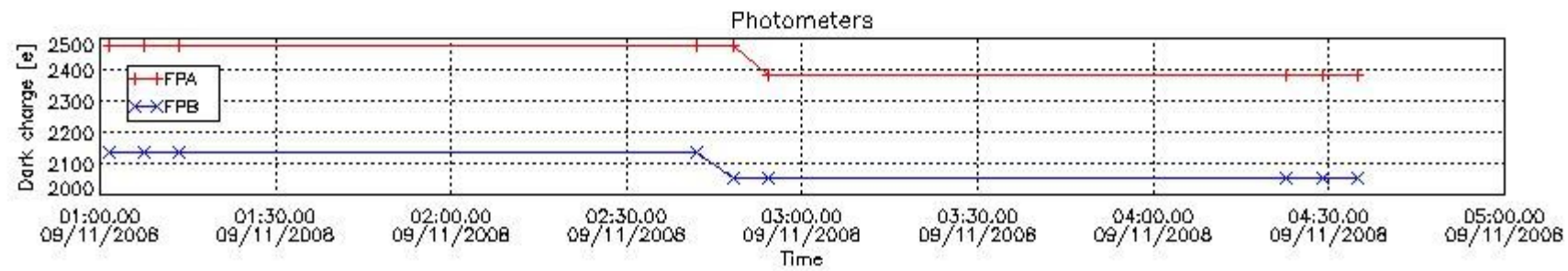
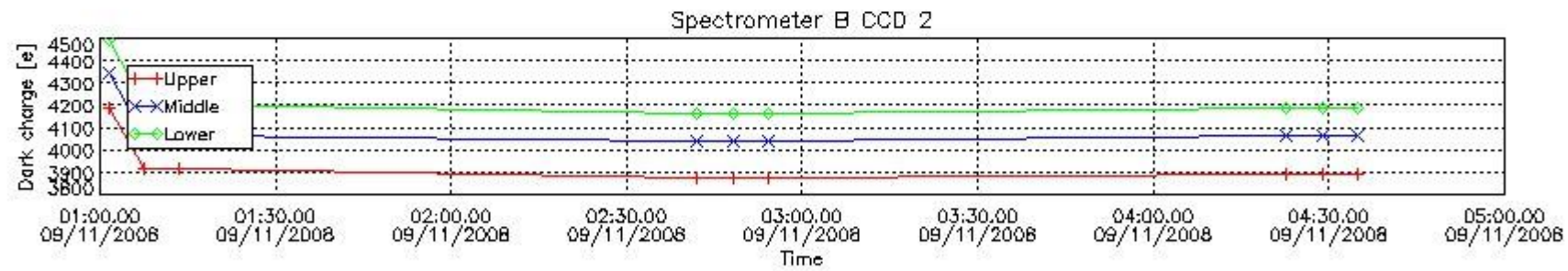
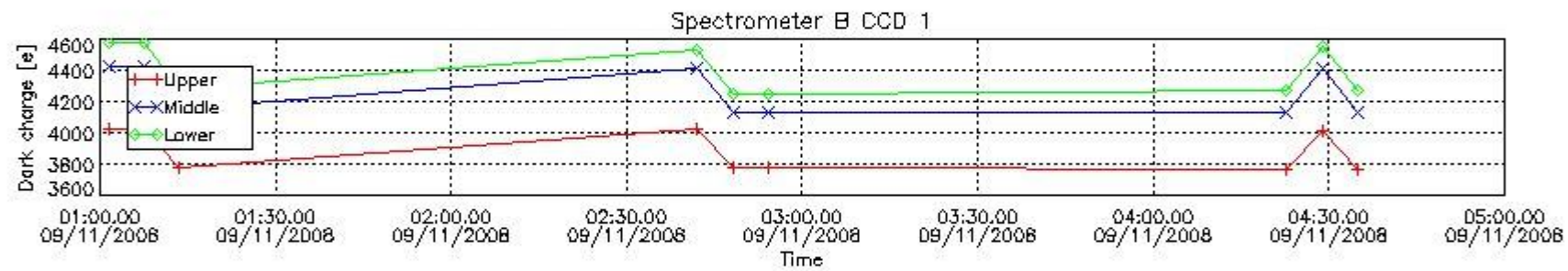
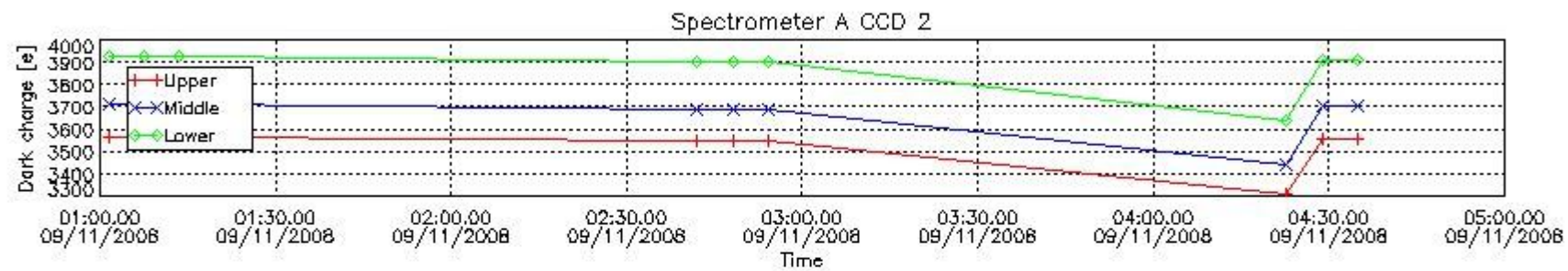
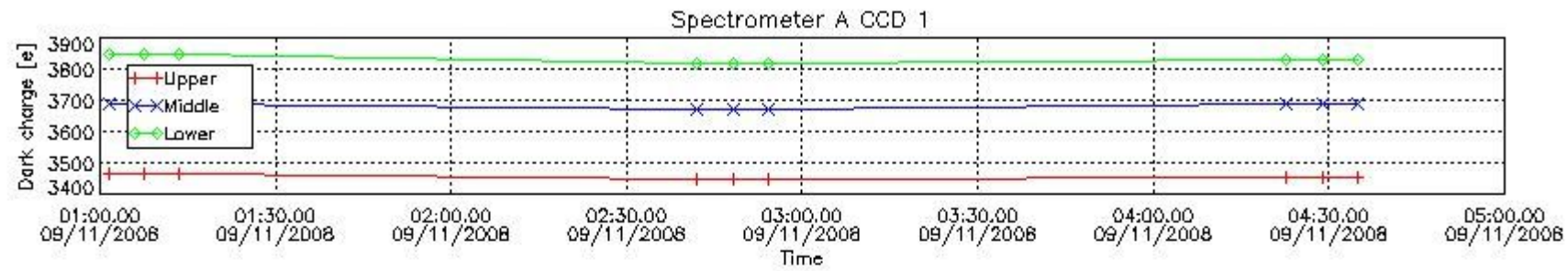
4. Overview of dark signal processing per product

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



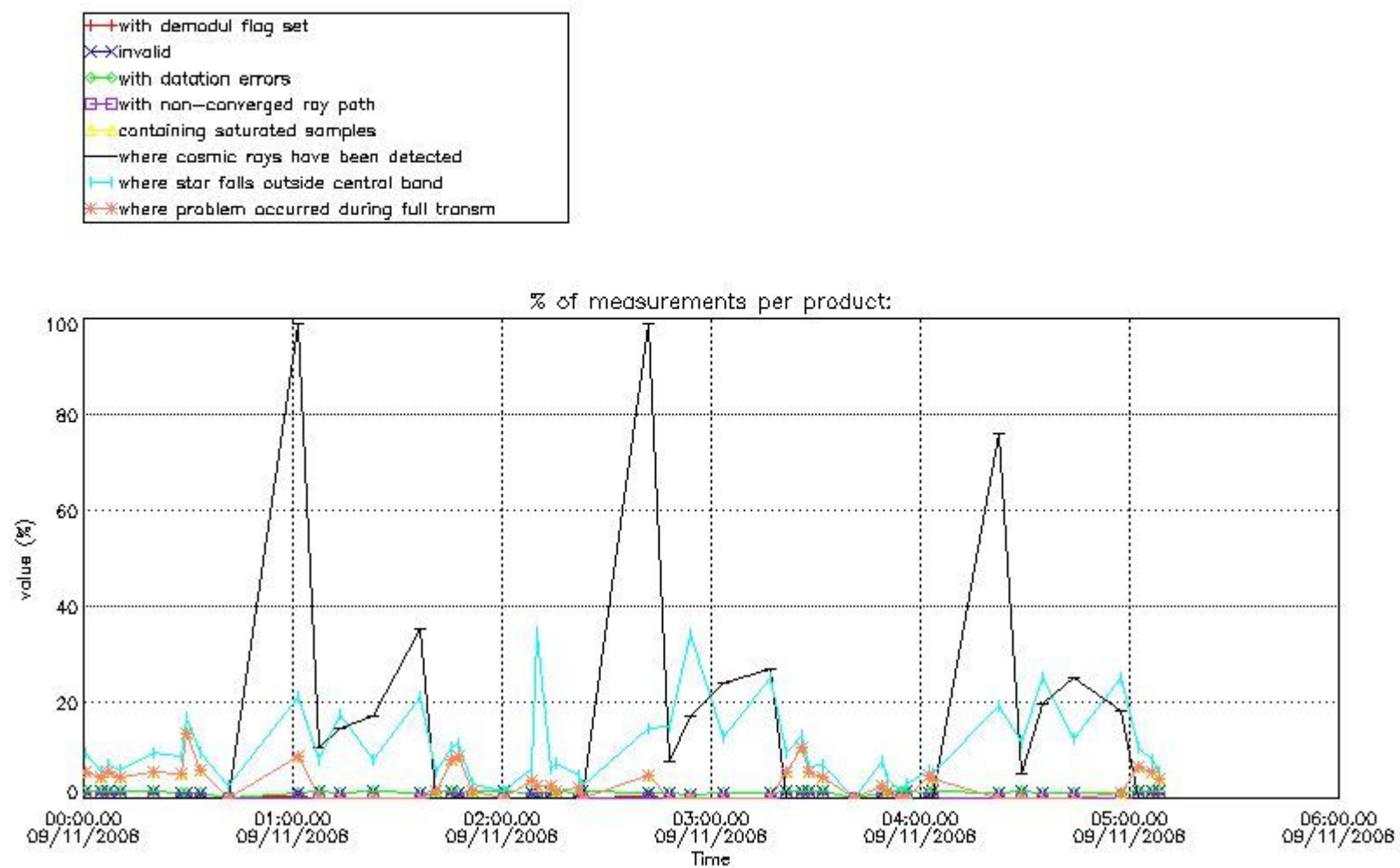
5. Demodulation flag and quality information monitoring

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.

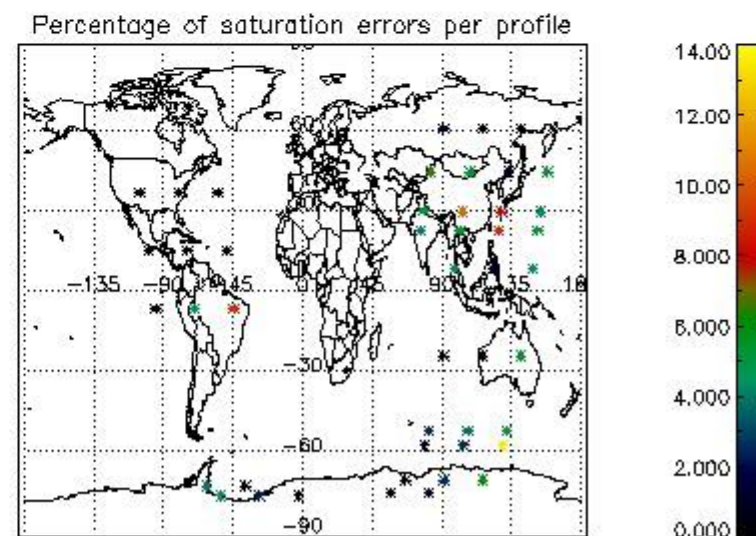
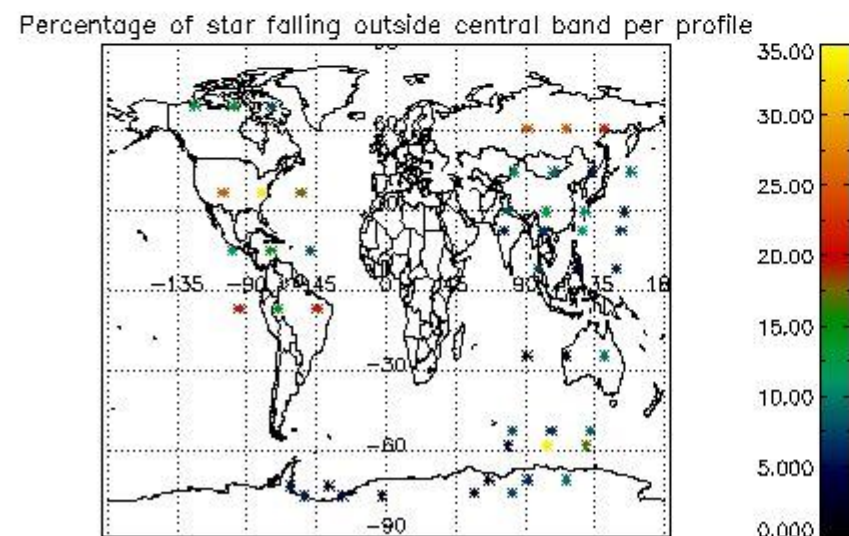
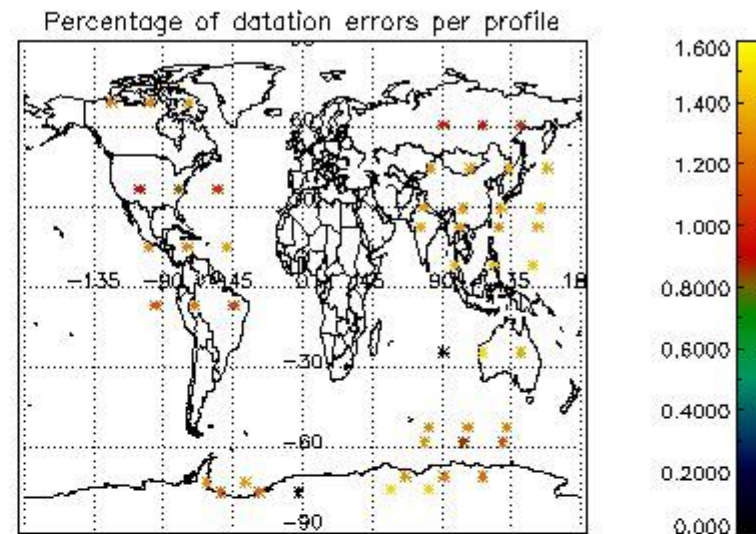
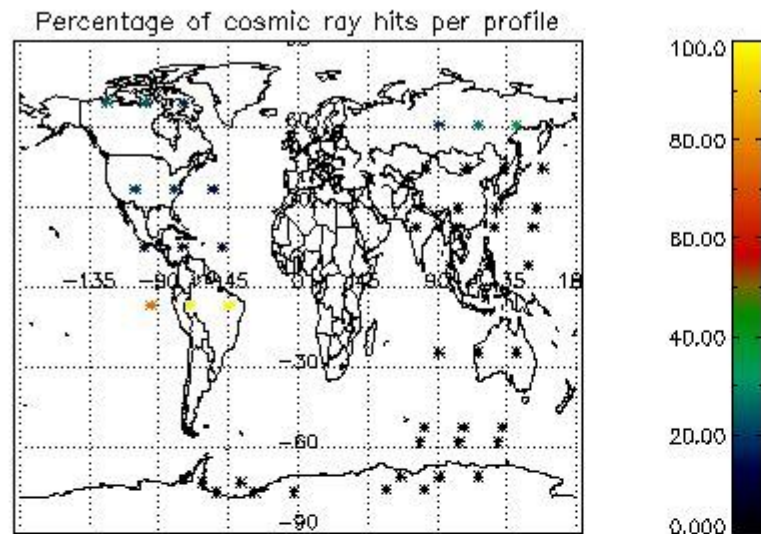
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	24.4898 %
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)



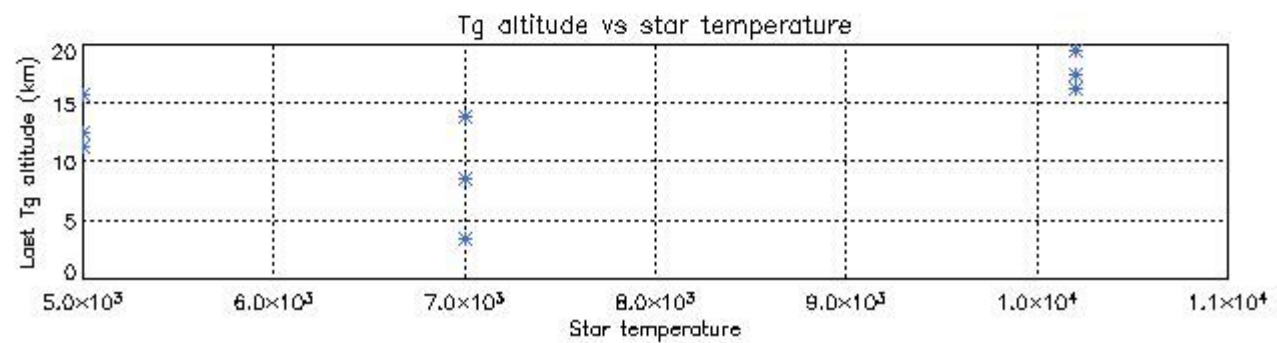
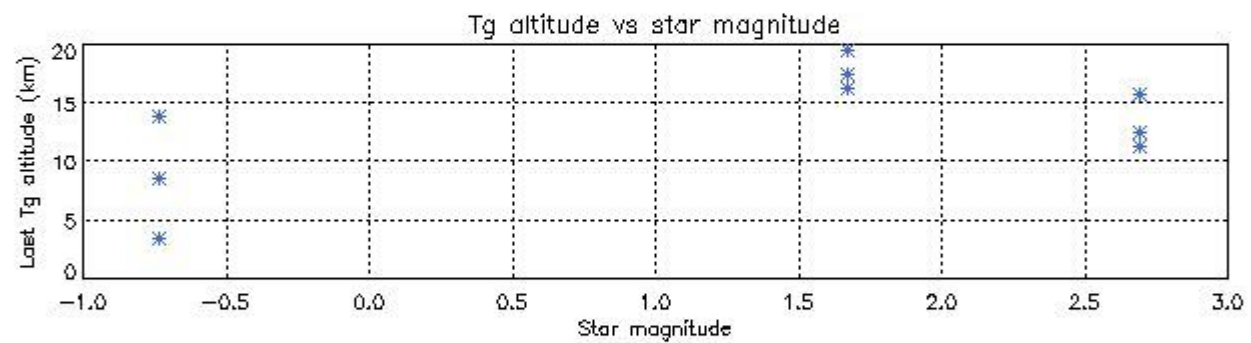
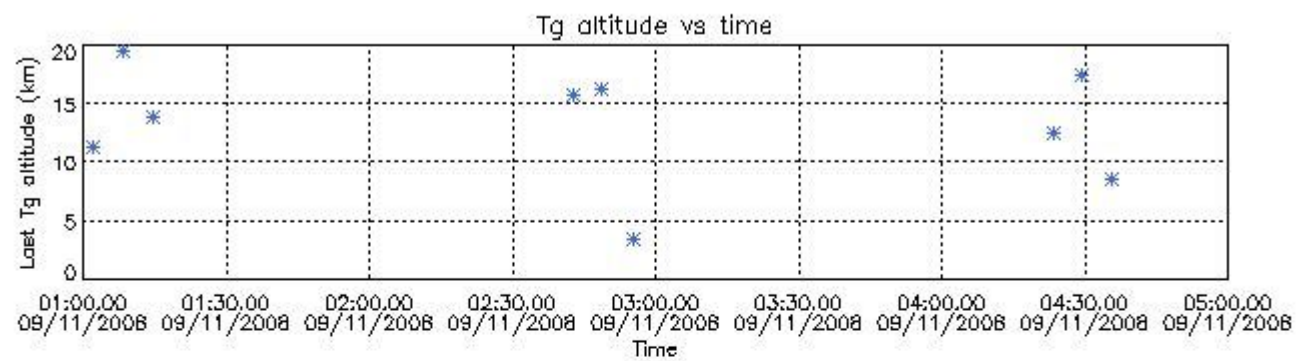
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.168	20.462	NaN
St. deviation:	4.9605	4.1726	NaN
Maximum:	19.524	27.589	NaN
Minimum:	3.3443	4.0627	NaN
Number of data:	9.0000	34.000	NaN

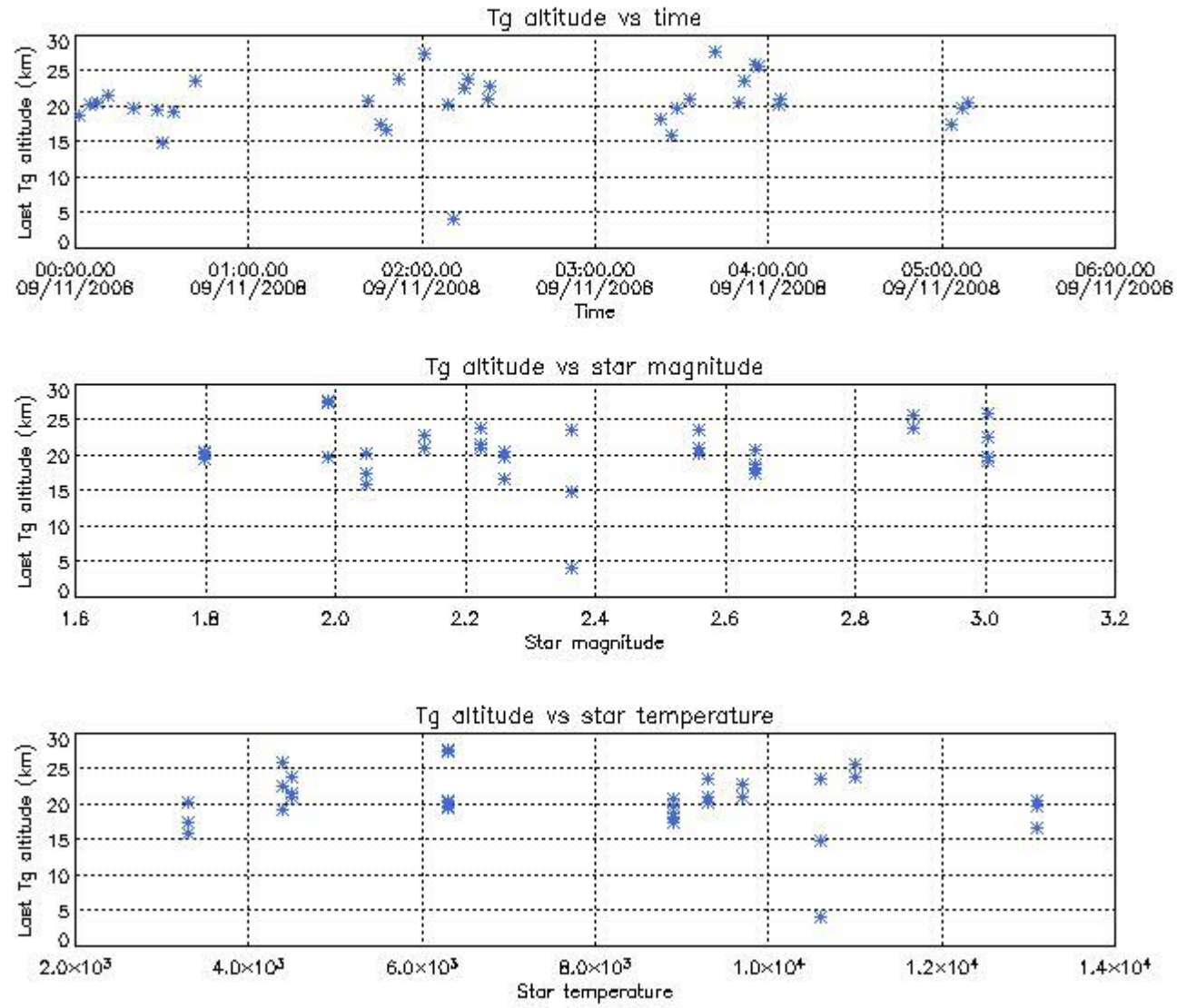
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

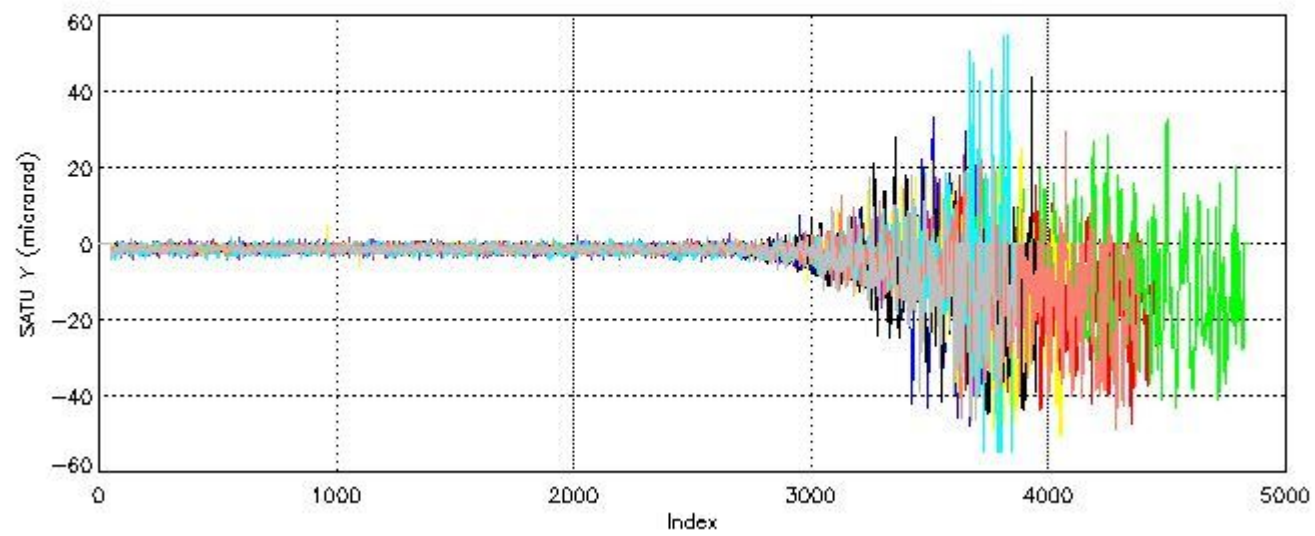
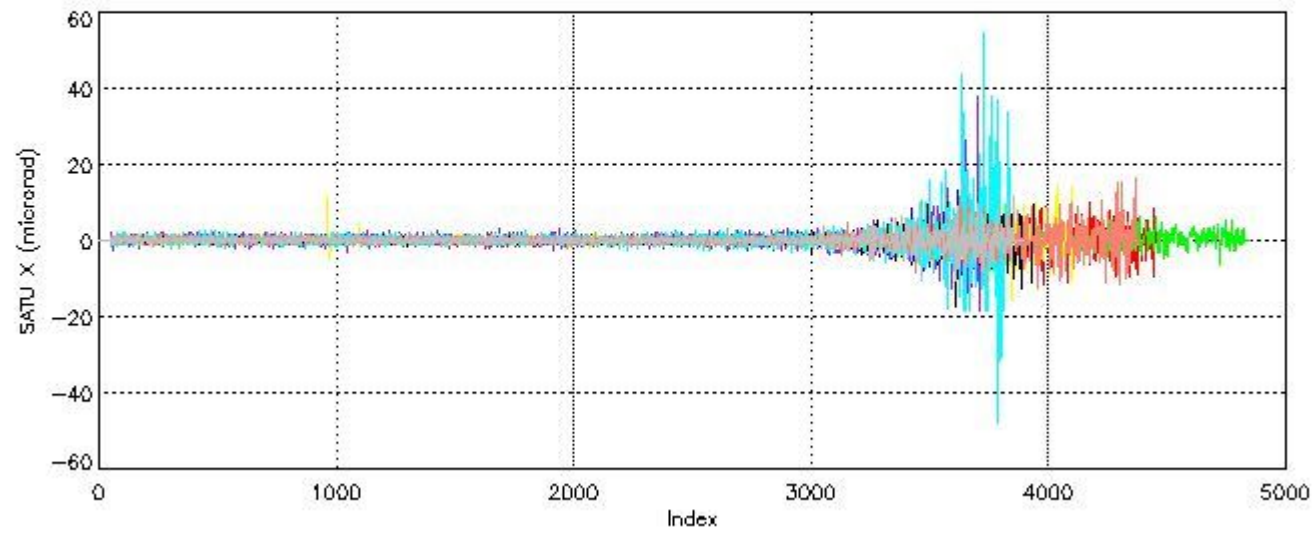


7. Star Acquisition and Tracking Unit (SATU)

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:	0.15704	-1.2464	0.091621	-1.3806
St. deviation:	0.35781	0.55916	0.74231	0.92037
Maximum:	2.1000	0.90000	6.5000	4.5000
Minimum:	-1.7000	-3.8000	-6.5000	-6.5000

Number of data:	8400.0	8400.0	29300.	29300.
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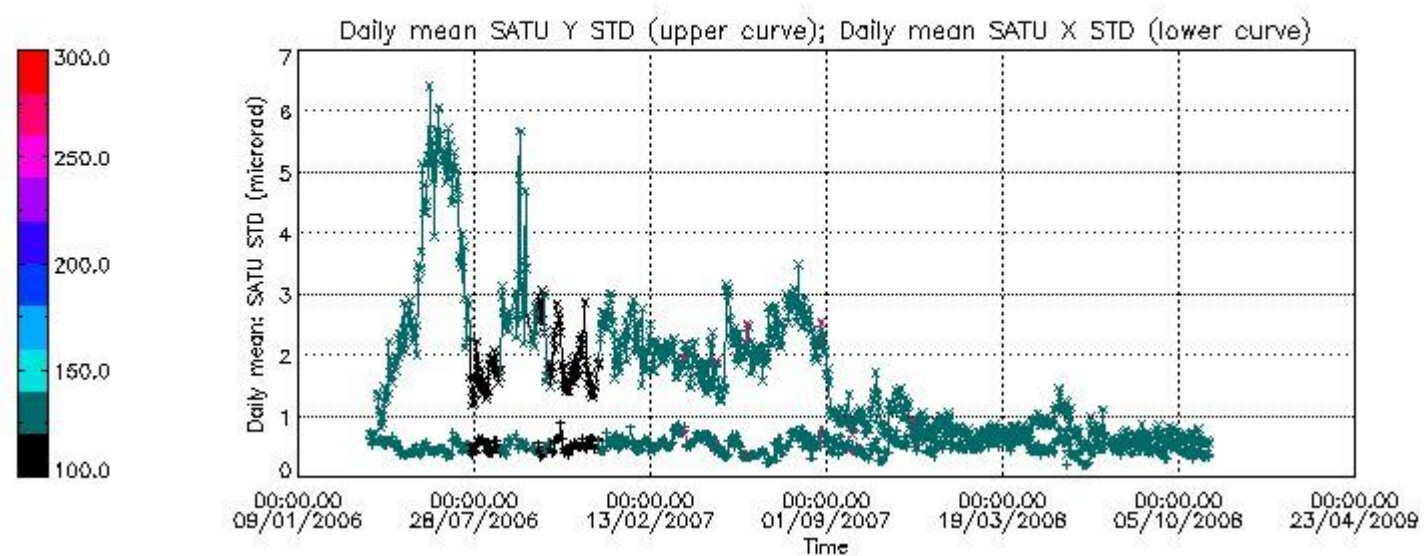
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

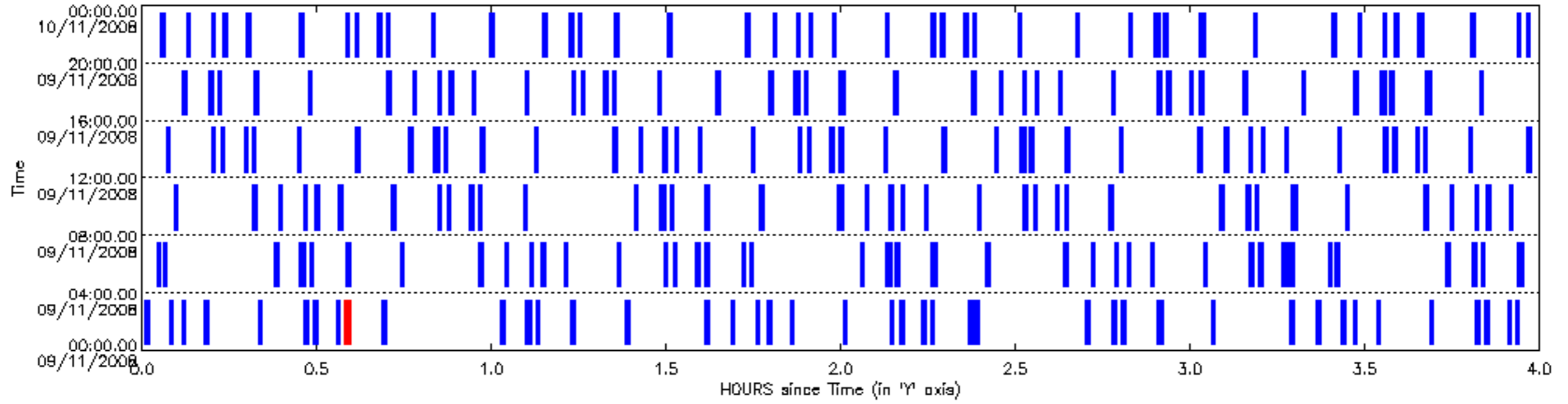
Lower curve: STD of SATU X axis

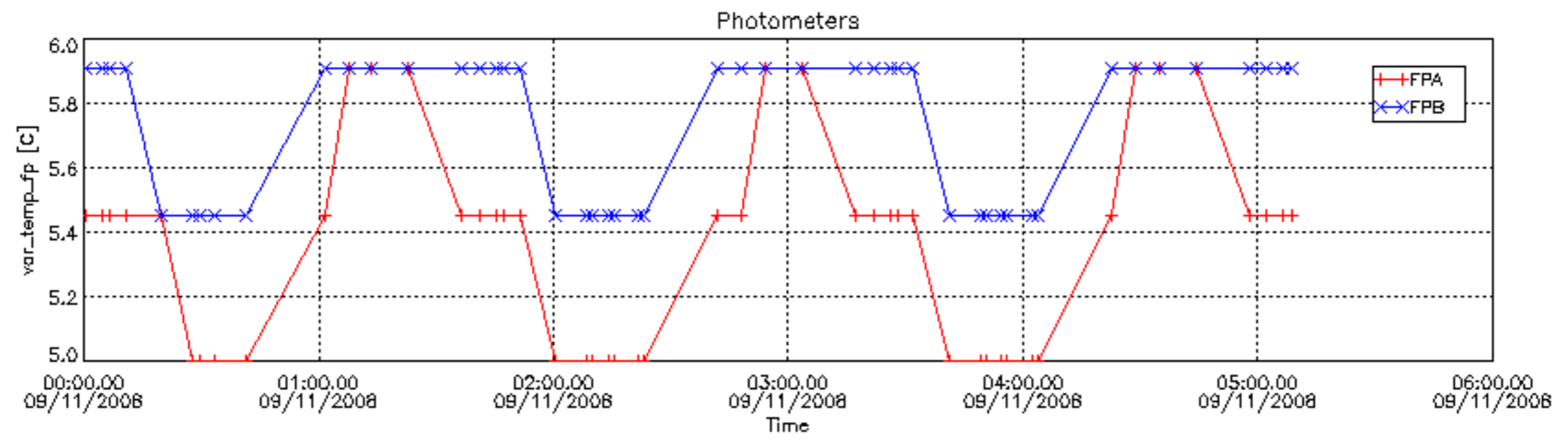
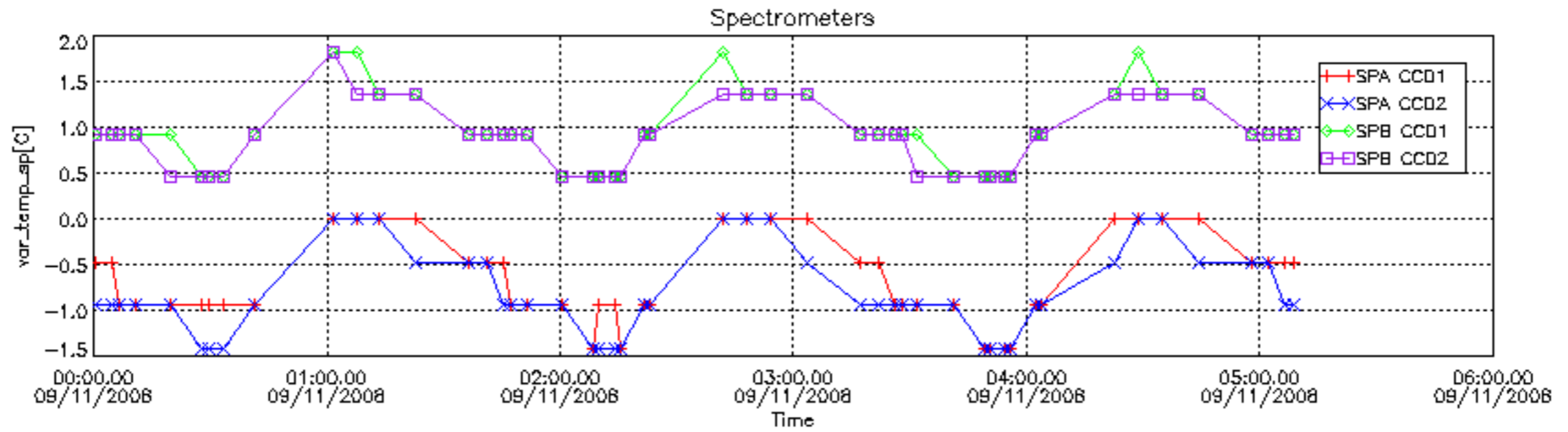


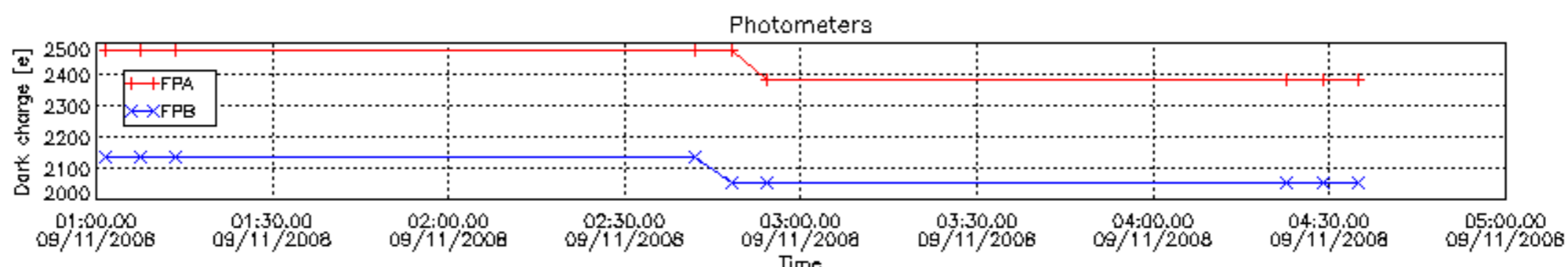
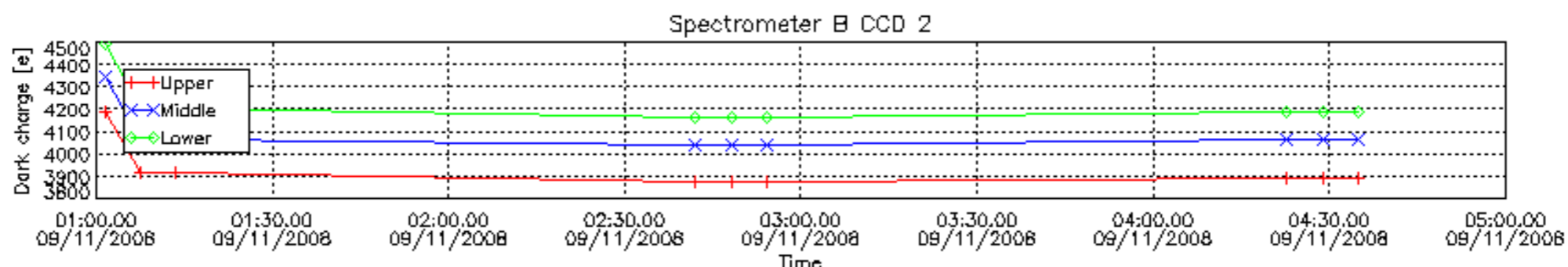
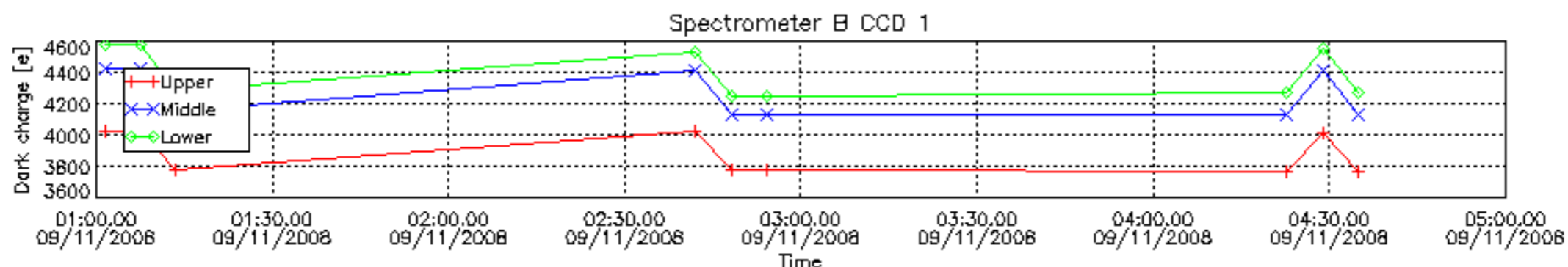
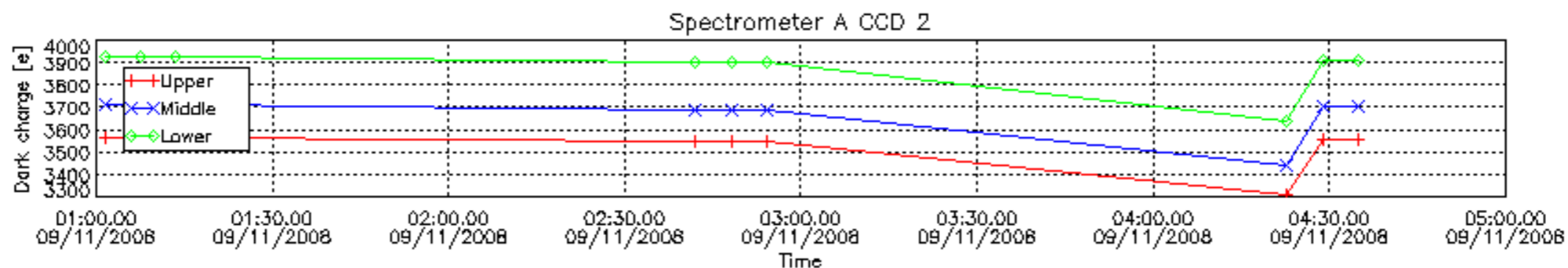
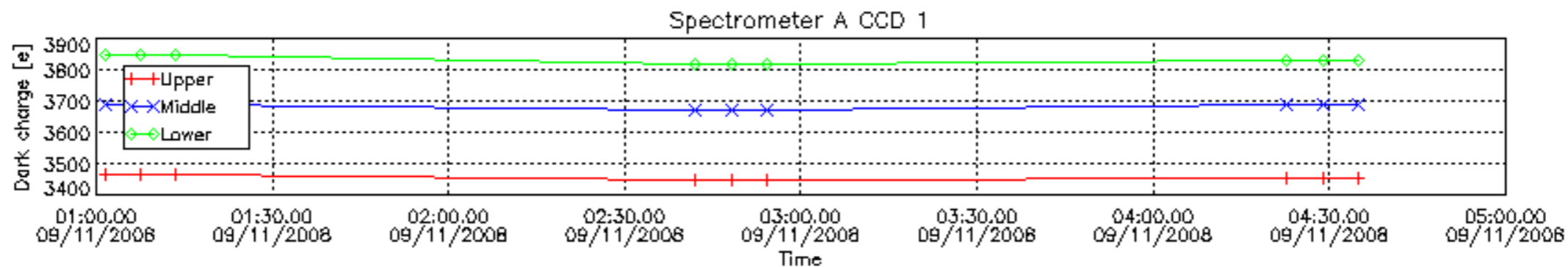
8. Auxiliary Data Files used for the production reported in section 2.4

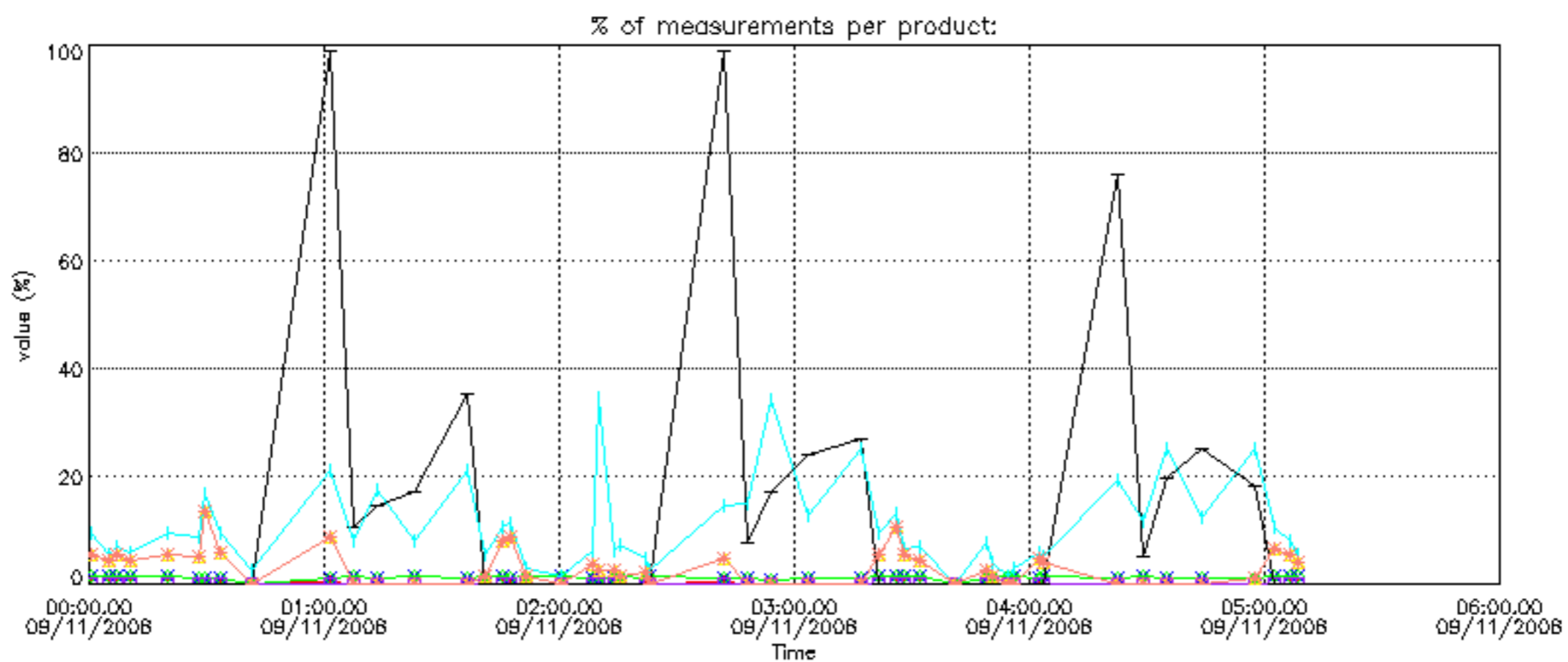
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	09-NOV-2008 00:00:31
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20081107_163108_20081101_000000_20100101_000000	1	09-NOV-2008 00:00:31
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	09-NOV-2008 00:00:31
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	09-NOV-2008 00:00:31
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	09-NOV-2008 00:00:31
ECMWF_FILE	AUX_ECF_AXNECM20081108_072114_20081108_210000_20081109_090000	1	09-NOV-2008 00:00:31
ECMWF_FILE	AUX_ECF_AXNECM20081108_190115_20081109_030000_20081109_150000	36	09-NOV-2008 03:48:58
OPTIONAL_ECMWF_FILE	MISSING	1	09-NOV-2008 00:00:31
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20081108_212650_000057382073_00372_34995_6728.N1	1	09-NOV-2008 00:00:31
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20081108_230747_000057382073_00373_34996_6729.N1	10	09-NOV-2008 01:01:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20081109_004844_000041442073_00374_34997_6730.N1	20	09-NOV-2008 02:08:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20081109_020307_000057382073_00375_34998_6731.N1	36	09-NOV-2008 03:48:58

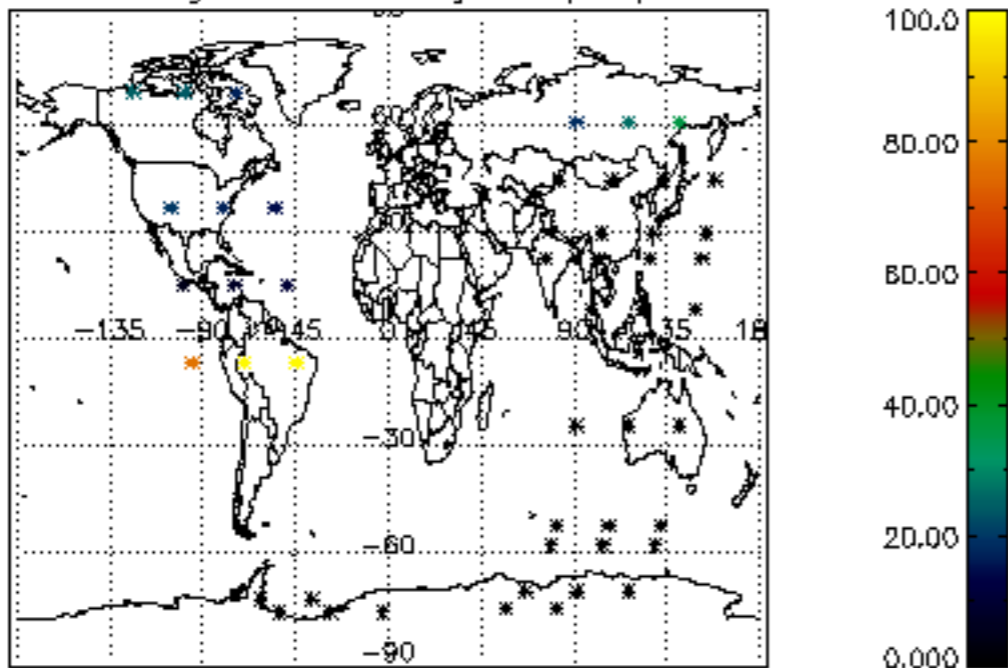




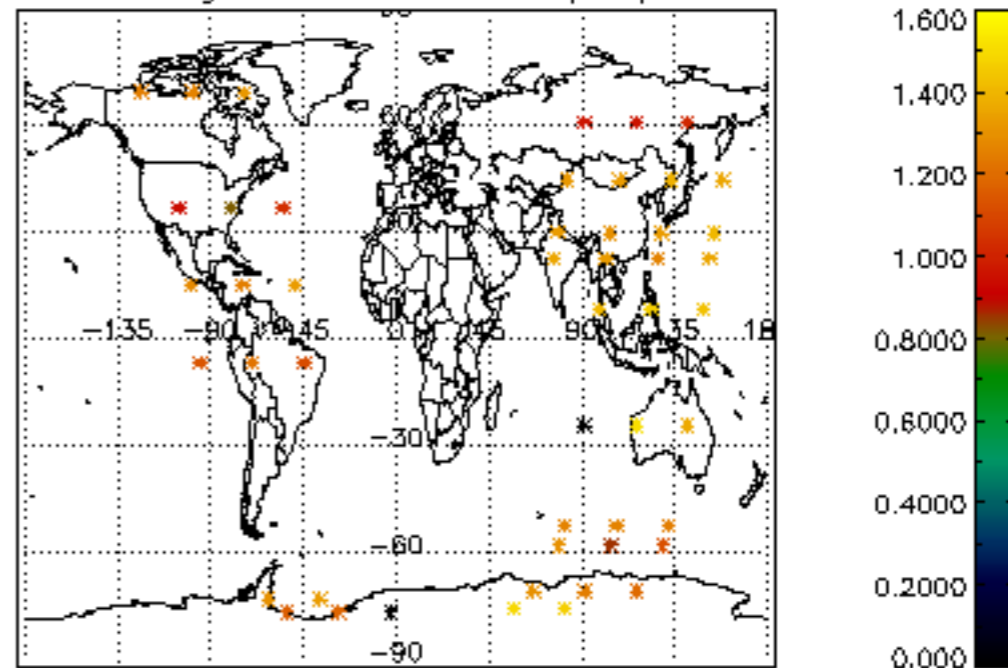




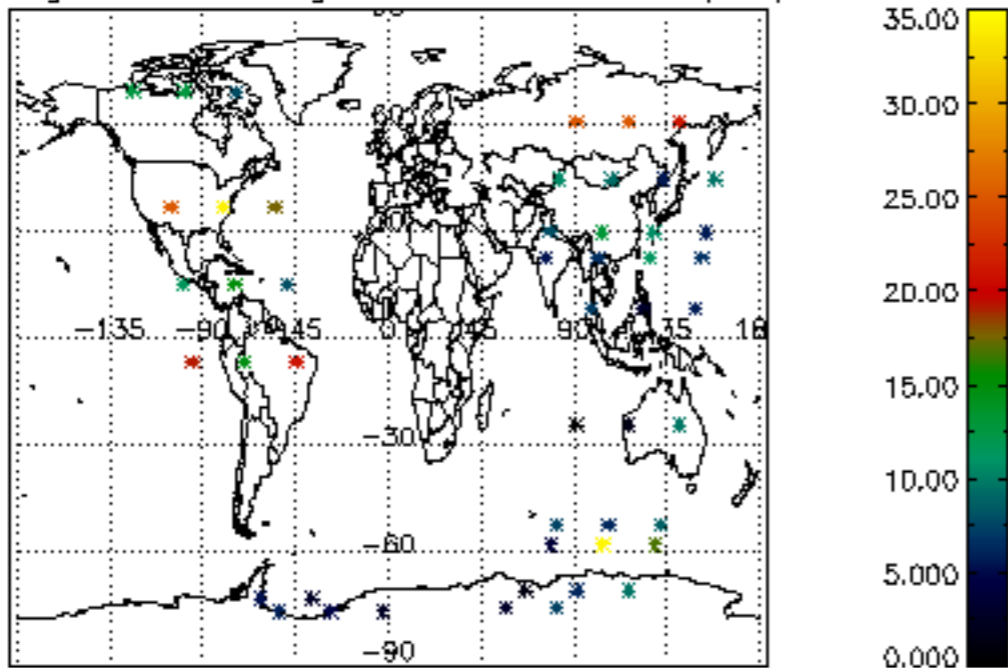
Percentage of cosmic ray hits per profile



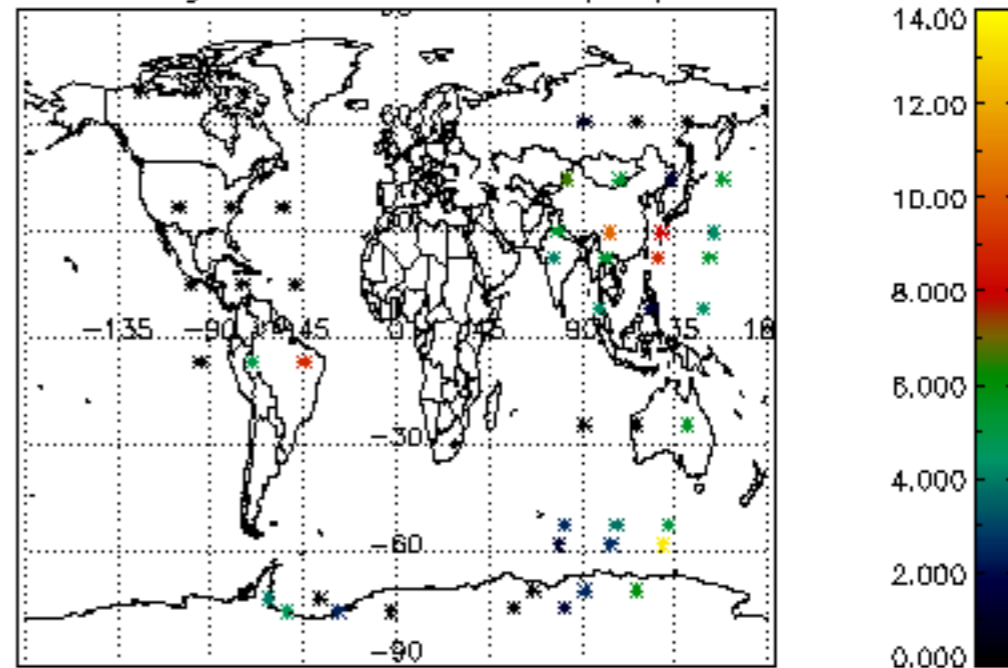
Percentage of datation errors per profile



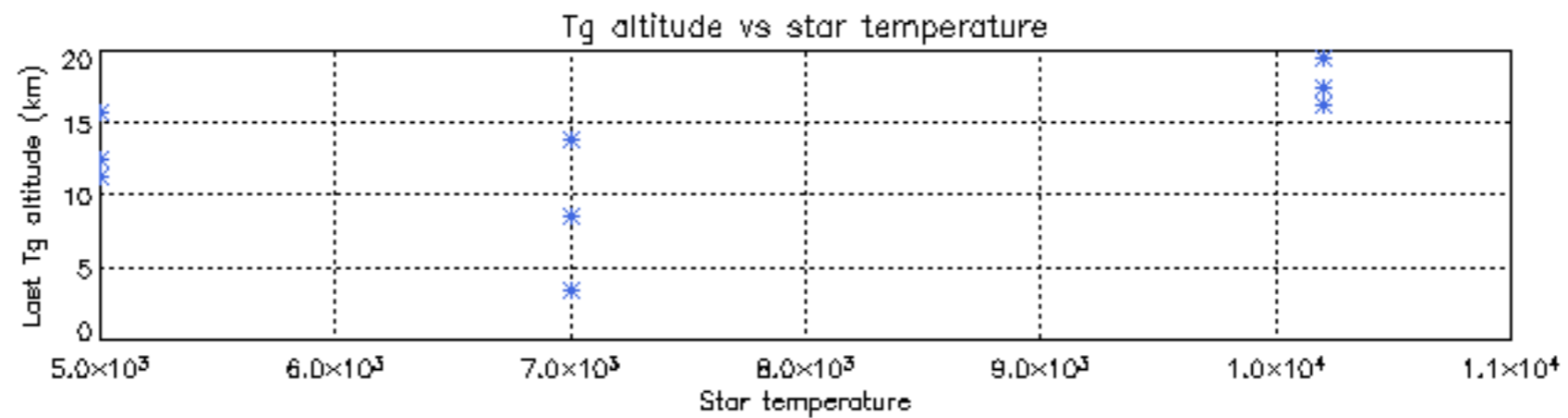
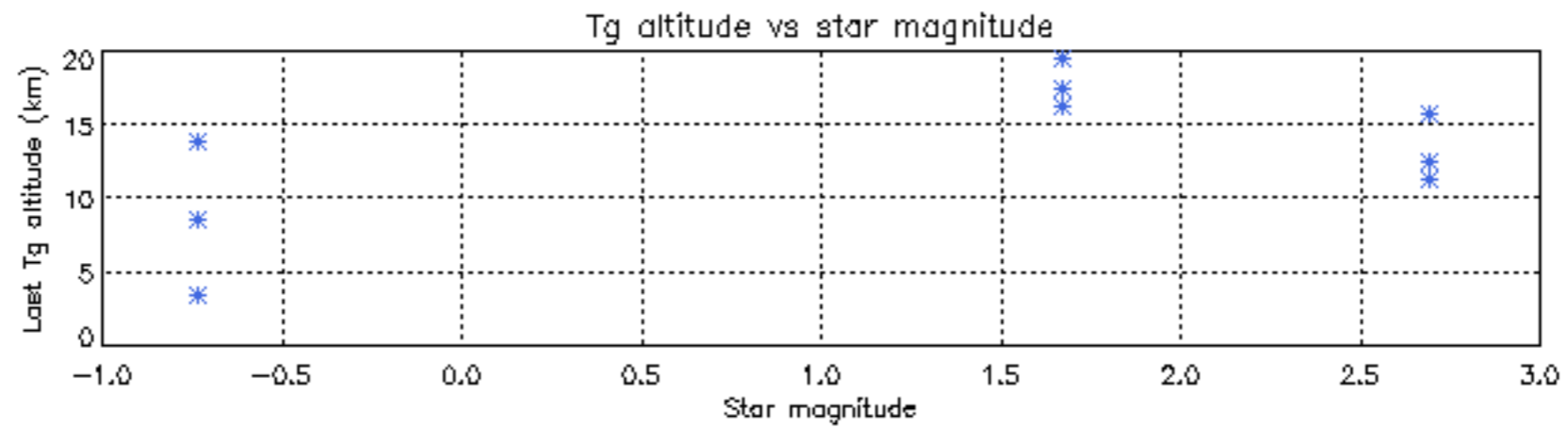
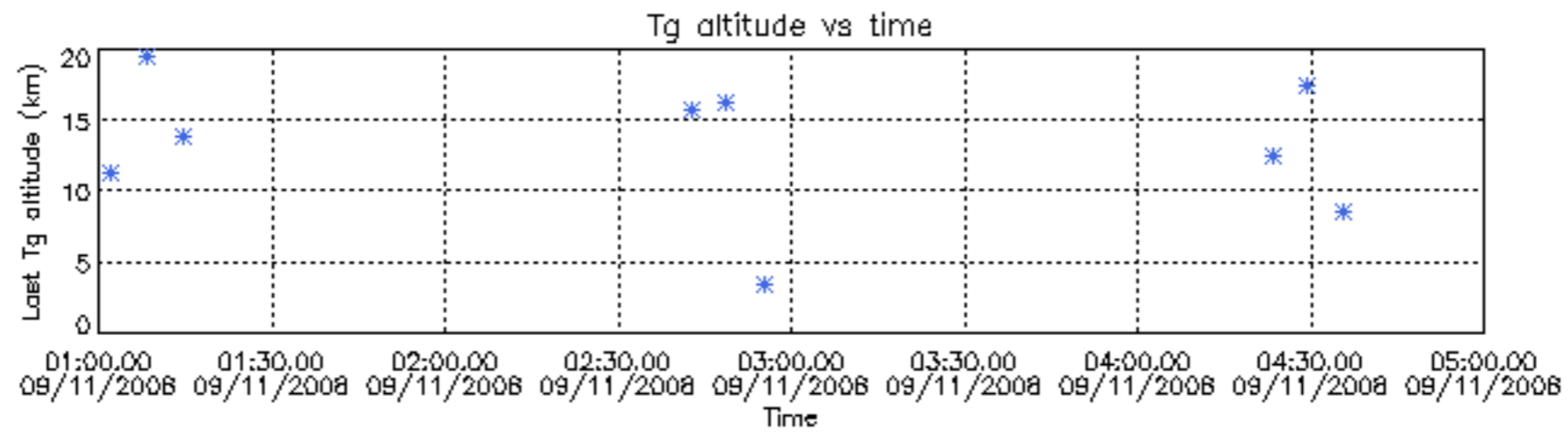
Percentage of star falling outside central band per profile



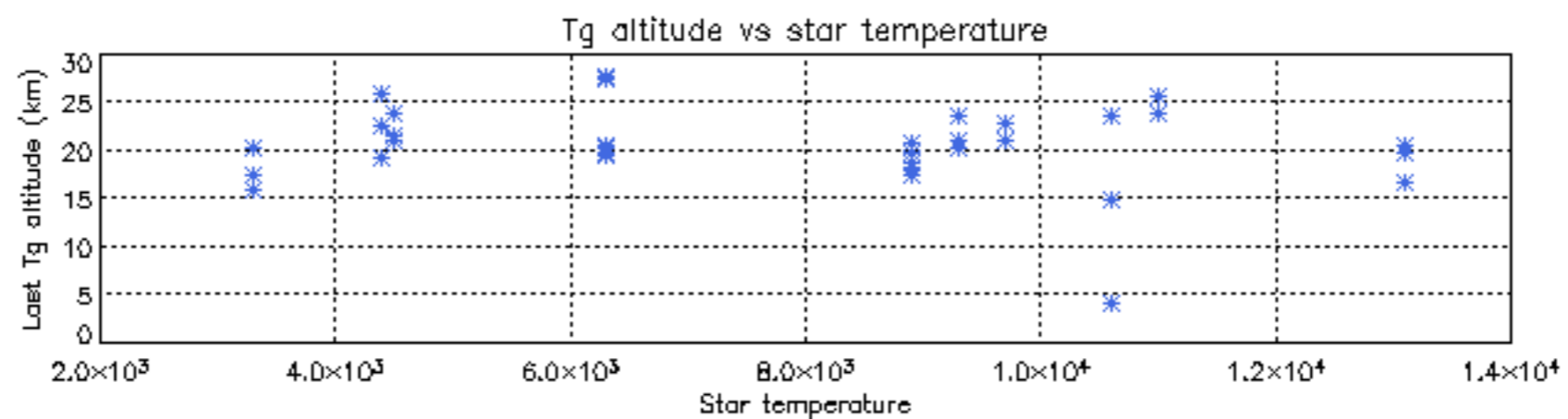
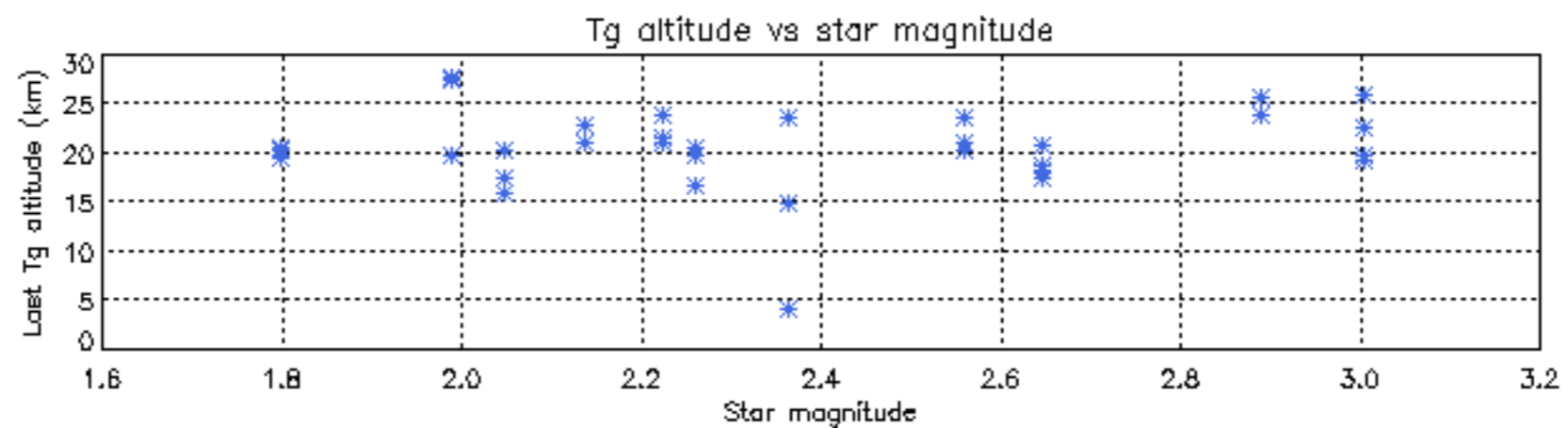
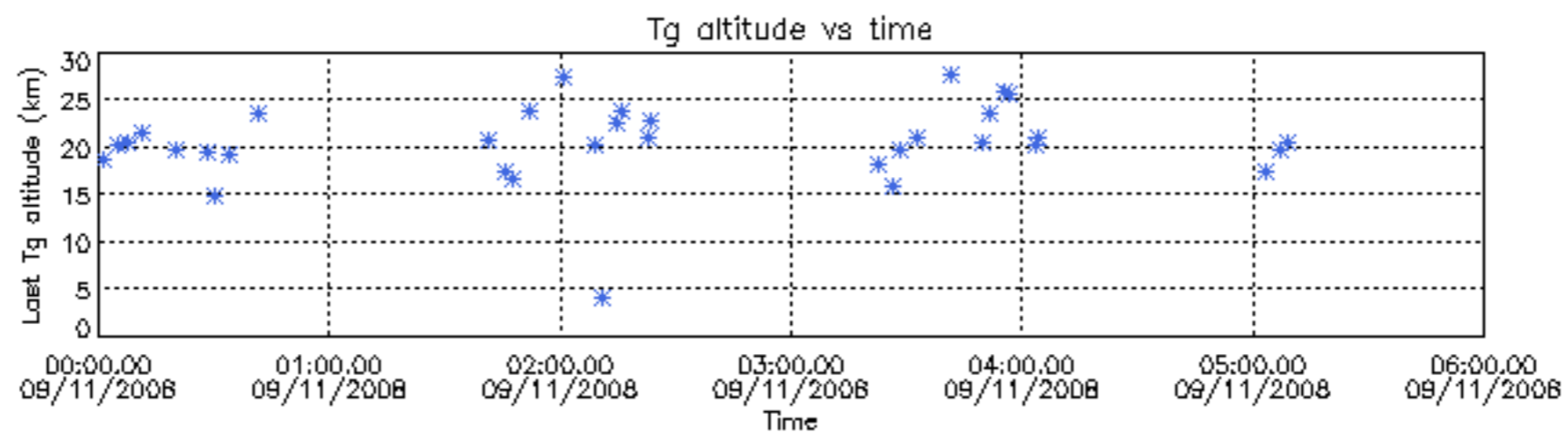
Percentage of saturation errors per profile

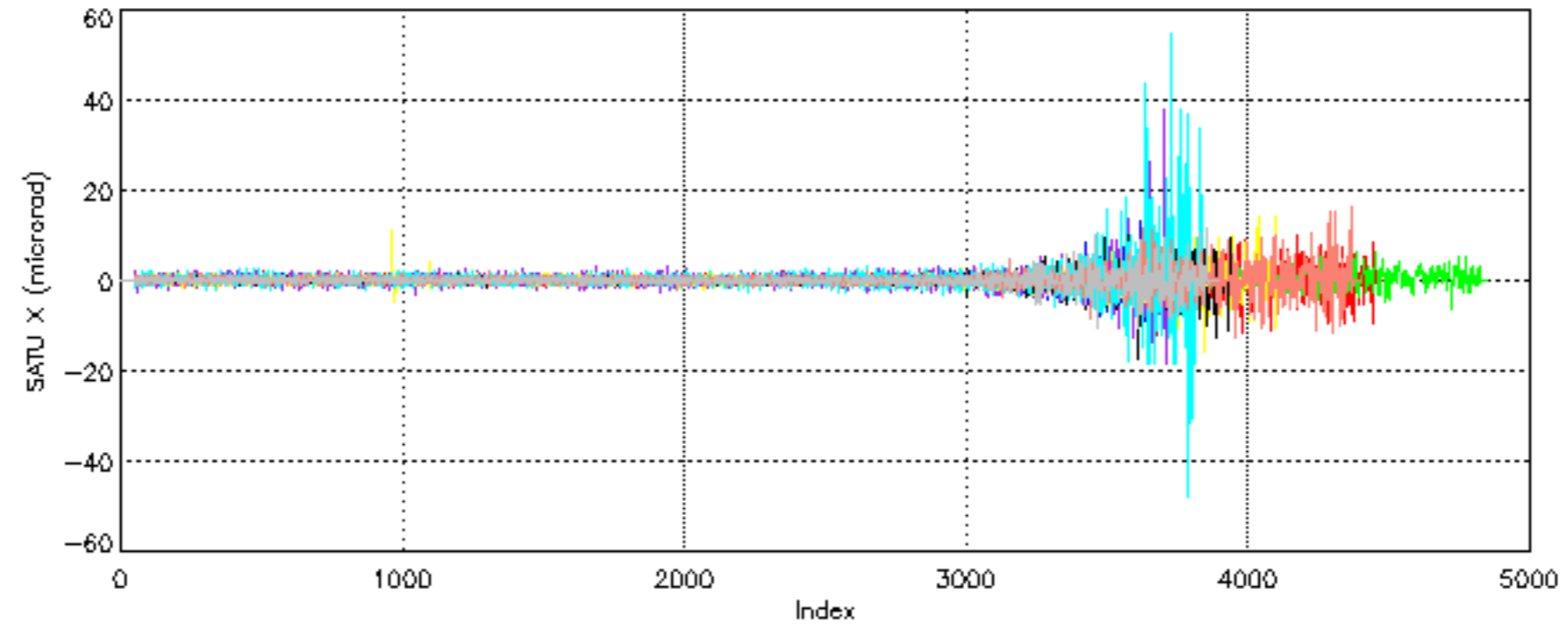


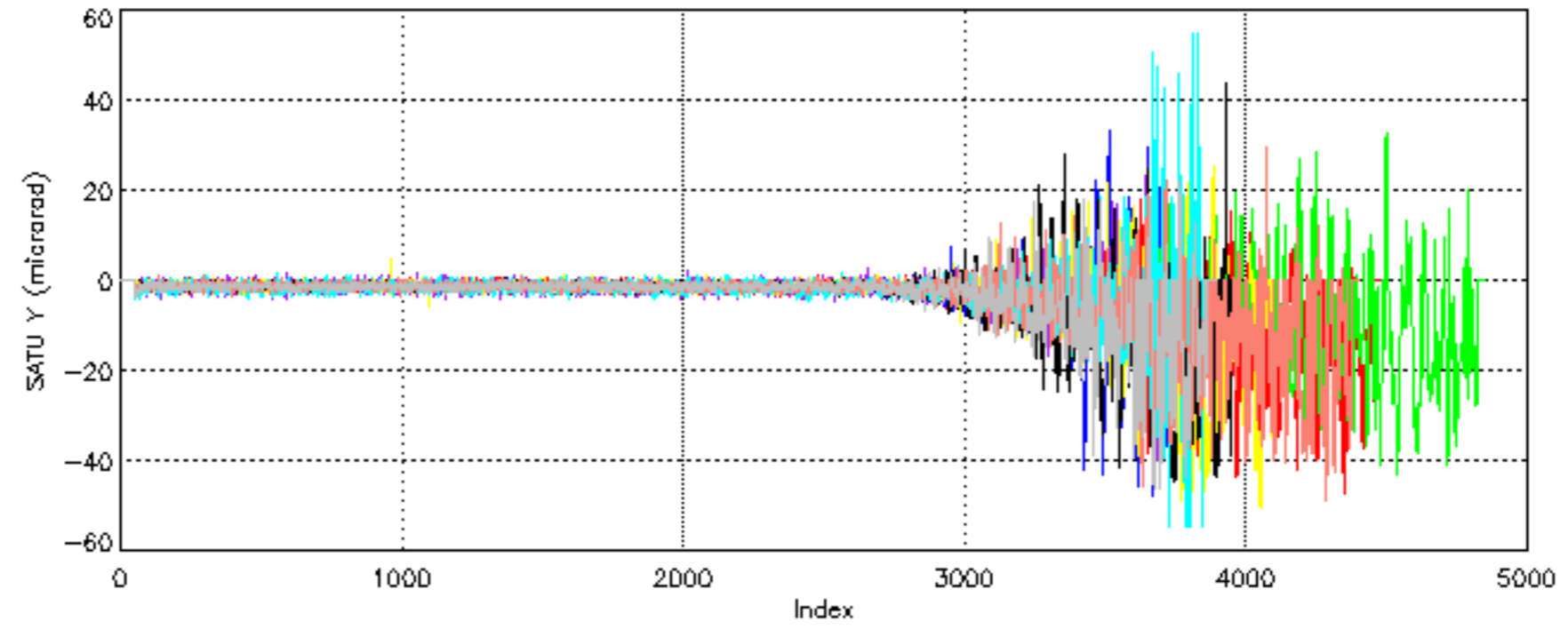
Tangent altitude at which the star is lost

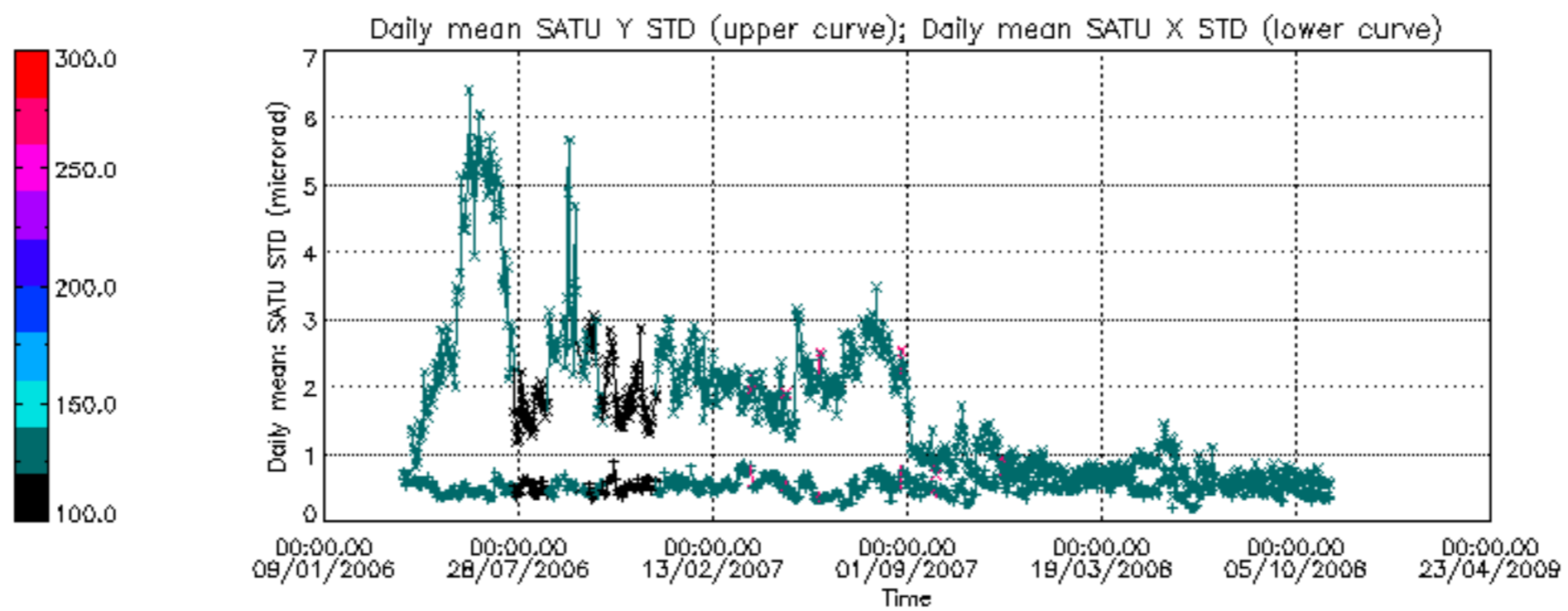


Tangent altitude at which the star is lost










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3; 2869.5; 01-NOV-2008 09:25:23; Bright; 84.5; 74; 11Bet Cas ; 2.27; 6600;occ; 169; 0;34888
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4; 2869.9; 04-NOV-2008 12:52:20; Bright; 34.0; 68; 18Alp Cas ; 2.22; 4500;occ; 68; 0;34933
5; 3423.5; 04-NOV-2008 13:01:33; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;34933
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8; 145.7; 09-NOV-2008 02:46:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34999
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 5; 2634.7; 09-NOV-2008 20:13:54; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;35009
 6; 2876.8; 09-NOV-2008 20:17:57; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;35009
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 3; 154.6; 09-NOV-2008 21:13:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35010
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9; 4228.0; 09-NOV-2008 15:38:40; Bright; 39.5; 174; 52Psi UMA ; 3.00; 4400;occ; 79; 0;35006
10; 4319.5; 09-NOV-2008 15:40:11; Bright; 33.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 66; 0;35006
11; 4781.9; 09-NOV-2008 15:47:54; Bright; 37.5; 62; 94Bet Leo ; 2.14; 9700;occ; 75; 0;35006
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13; 5924.6; 09-NOV-2008 16:06:56; Dark ; 39.0; 113; Mu Vel ; 2.69; 5000;occ; 78; 0;35006
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4; 2511.3; 09-NOV-2008 16:50:39; Bright; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;35007
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6; 2876.5; 09-NOV-2008 16:56:44; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;35007
7; 3422.9; 09-NOV-2008 17:05:51; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;35007
8; 3896.5; 09-NOV-2008 17:13:44; Bright; 42.5; 36; 50Alp UMa ; 1.80; 6300;occ; 85; 0;35007
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 8; 3896.4; 09-NOV-2008 18:54:20; Bright; 40.5; 36; 50Alp UMA ; 1.80; 6300;occ; 81; 0;35008
 9; 3994.3; 09-NOV-2008 18:55:58; Bright; 37.5; 82; 48Bet UMA ; 2.37; 10600;occ; 75; 0;35008
10; 4227.8; 09-NOV-2008 18:59:52; Bright; 39.5; 174; 52Psi UMA ; 3.00; 4400;occ; 79; 0;35008
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 3; 156.3; 10-NOV-2008 00:34:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35012
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 5; 623.3; 10-NOV-2008 00:42:11; Dark ; 48.0; 2; Alp Car ;-0.74; 7000;occ; 96; 0;35012
 6; 1181.3; 10-NOV-2008 00:51:29; Dark ; 38.5; 157; The1Eri ; 2.91; 9300;occ; 77; 0;35012
 7; 1982.6; 10-NOV-2008 01:04:50; Dark ; 48.5; 94; 92Alp Cet ; 2.53; 3100;occ; 97; 0;35012
 8; 2262.2; 10-NOV-2008 01:09:30; Bright; 36.5; 105; 6Bet Ari ; 2.64; 8900;occ; 73; 0;35012
 9; 2510.4; 10-NOV-2008 01:13:38; Bright; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;35012
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13; 3674.3; 10-NOV-2008 01:33:02; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;35012
14; 3895.6; 10-NOV-2008 01:36:43; Bright; 40.0; 36; 50Alp UMA ; 1.80; 6300;occ; 80; 0;35012
15; 3993.7; 10-NOV-2008 01:38:21; Bright; 38.5; 82; 48Bet UMA ; 2.37; 10600;occ; 77; 0;35012
16; 4227.5; 10-NOV-2008 01:42:15; Bright; 42.5; 174; 52Psi UMA ; 3.00; 4400;occ; 85; 0;35012
17; 4319.9; 10-NOV-2008 01:43:47; Bright; 38.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 77; 0;35012
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 6; 1181.7; 10-NOV-2008 02:32:05; Dark ; 40.0; 157; The1Eri ; 2.91; 9300;occ; 80; 0;35013
 7; 1982.5; 10-NOV-2008 02:45:26; Dark ; 49.5; 94; 92Alp Cet ; 2.53; 3100;occ; 99; 0;35013
 8; 2262.2; 10-NOV-2008 02:50:05; Bright; 37.5; 105; 6Bet Ari ; 2.64; 8900;occ; 75; 0;35013
 9; 2510.4; 10-NOV-2008 02:54:14; Bright; 37.0; 173; 4Bet Tri ; 3.00; 8900;occ; 74; 0;35013
10; 2634.2; 10-NOV-2008 02:56:17; Bright; 37.0; 73; 57Gam1And ; 2.26; 13100;occ; 74; 0;35013
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12; 3422.7; 10-NOV-2008 03:09:26; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;35013
13; 3674.5; 10-NOV-2008 03:13:38; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;35013
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 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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 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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 9; 159.5; 10-NOV-2008 07:16:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35016
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 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
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 9; 3993.1; 10-NOV-2008 08:20:44; Bright; 40.5; 82; 48Bet UMa ; 2.37; 10600;occ; 81; 0;35016
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 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
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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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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
10; 4227.4; 10-NOV-2008 11:45:50; Bright; 39.5; 174; 52Psi UMa ; 3.00; 4400;occ; 79; 0;35018
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; 5386.6; 10-NOV-2008 12:05:10; Dark ; 38.5; 171; 2Eps Crv ; 3.00; 4250;occ; 77; 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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 3; 2509.8; 10-NOV-2008 12:57:49; Bright; 35.5; 173; 4Bet Tri ; 3.00; 8900;occ; 71; 0;35019
 4; 2633.7; 10-NOV-2008 12:59:52; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;35019
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 7; 3675.4; 10-NOV-2008 13:17:14; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;35019
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 9; 3992.6; 10-NOV-2008 13:22:31; Bright; 38.5; 82; 48Bet UMa ; 2.37; 10600;occ; 77; 0;35019
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11; 4321.0; 10-NOV-2008 13:28:00; Bright; 48.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 97; 0;35019
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 3; 2509.6; 10-NOV-2008 16:19:00; Bright; 37.5; 173; 4Bet Tri ; 3.00; 8900;occ; 75; 0;35021
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 11; 3992.1; 10-NOV-2008 18:24:19; Bright; 39.5; 82; 48Bet UMa ; 2.37; 10600;occ; 79; 0;35022
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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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13; 1185.9; 11-NOV-2008 05:21:44; Dark ; 39.0; 157; The1Eri ; 2.91; 9300;occ; 78; 0;35029
14; 1980.7; 11-NOV-2008 05:34:59; Dark ; 49.0; 94; 92Alp Cet ; 2.53; 3100;occ; 98; 0;35029
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9; 3677.8; 11-NOV-2008 21:08:39; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;35038
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12; 4323.6; 11-NOV-2008 21:19:25; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;35038
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9; 2262.3; 11-NOV-2008 22:25:40; Bright; 36.0; 105; 6Bet Ari ; 2.64; 8900;occ; 72; 0;35039

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1; 1976.3; 14-NOV-2008 12:23:03; Dark ; 47.5; 94; 92Alp Cet ; 2.53; 3100;occ; 95; 0;35076
 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; 57Gam1And ; 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; 12Alp2CVn ; 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; Gam2Vel ; 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; The1Eri ; 2.91; 9300;occ; 75; 0;35076

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1; 1976.3; 14-NOV-2008 14:03:39; Dark ; 49.0; 94; 92Alp Cet ; 2.53; 3100;occ; 98; 0;35077
 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; 57Gam1And ; 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; 12Alp2CVn ; 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
 20; 6424.4; 14-NOV-2008 15:17:47; Dark ; 34.0; 34; Gam2Vel ; 1.79; 23000;occ; 68; 0;35077
 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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 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
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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
 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

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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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 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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 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
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 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
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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
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 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
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 4; 814.3; 15-NOV-2008 23:16:15; Dark ; 82.0; 88; 31Eta CMa ; 2.45; 20000;occ; 164; 0;35097
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 5; 694.0; 15-NOV-2008 08:08:52; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;35088
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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
 6; 3036.2; 15-NOV-2008 08:47:54; Bright; 56.0; 6; 13Alp Aur ; 0.08; 3400;occ; 112; 0;35088
 7; 3218.6; 15-NOV-2008 08:50:56; Bright; 60.0; 42; 34Bet Aur ; 1.90; 10200;occ; 120; 0;35088
 8; 4739.4; 15-NOV-2008 09:16:17; Bright; 45.0; 96; 68Del Leo ; 2.56; 9300;occ; 90; 0;35088
 9; 4843.6; 15-NOV-2008 09:18:01; Dark ; 93.0; 166; 17Eps Leo ; 2.98; 6000;occ; 186; 0;35088
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11; 5928.9; 15-NOV-2008 09:36:06; Dark ; 110.5; 48; 30Alp Hya ; 1.98; 4100;occ; 221; 0;35088
12; 6476.2; 15-NOV-2008 09:45:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35088
13; 6731.0; 15-NOV-2008 09:49:29; Dark ; 63.0; 117; Pi Pup ; 2.71; 3800;occ; 126; 0;35088
14; 6838.4; 15-NOV-2008 09:51:16; Dark ; 79.0; 88; 31Eta CMa ; 2.45; 20000;occ; 158; 0;35088
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 3; 2361.0; 15-NOV-2008 10:17:14; Bright; 61.5; 13; 87Alp Tau ; 0.87; 3800;occ; 123; 0;35089
 4; 2558.6; 15-NOV-2008 10:20:32; Bright; 42.0; 150; 44Zet Per ; 2.89; 28000;occ; 84; 0;35089
 5; 2777.3; 15-NOV-2008 10:24:11; Bright; 58.5; 114; 3Iot Aur ; 2.69; 4600;occ; 117; 0;35089
 6; 3035.1; 15-NOV-2008 10:28:29; Bright; 56.5; 6; 13Alp Aur ; 0.08; 3400;occ; 113; 0;35089
 7; 3217.1; 15-NOV-2008 10:31:31; Bright; 60.0; 42; 34Bet Aur ; 1.90; 10200;occ; 120; 0;35089
 8; 4739.7; 15-NOV-2008 10:56:53; Bright; 53.0; 96; 68Del Leo ; 2.56; 9300;occ; 106; 0;35089
 9; 4844.6; 15-NOV-2008 10:58:38; Dark ; 94.5; 166; 17Eps Leo ; 2.98; 6000;occ; 189; 0;35089
10; 5134.8; 15-NOV-2008 11:03:28; Dark ; 87.5; 22; 32Alp Leo ; 1.36; 15200;occ; 175; 0;35089
11; 5932.0; 15-NOV-2008 11:16:45; Dark ; 115.0; 48; 30Alp Hya ; 1.98; 4100;occ; 230; 0;35089
12; 6478.2; 15-NOV-2008 11:25:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35089
13; 6732.2; 15-NOV-2008 11:30:06; Dark ; 60.5; 117; Pi Pup ; 2.71; 3800;occ; 121; 0;35089
14; 6839.8; 15-NOV-2008 11:31:53; Dark ; 75.0; 88; 31Eta CMa ; 2.45; 20000;occ; 150; 0;35089
15; 6975.6; 15-NOV-2008 11:34:09; Dark ; 78.5; 23; 21Eps CMa ; 1.50; 26000;occ; 157; 0;35089
16; 7115.6; 15-NOV-2008 11:36:29; Dark ; 51.0; 108; Alp Col ; 2.65; 15200;occ; 102; 0;35089
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 4; 2360.1; 15-NOV-2008 11:57:49; Bright; 60.5; 13; 87Alp Tau ; 0.87; 3800;occ; 121; 0;35090
 5; 2776.0; 15-NOV-2008 12:04:45; Bright; 58.5; 114; 3Iot Aur ; 2.69; 4600;occ; 117; 0;35090
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 8; 4845.5; 15-NOV-2008 12:39:15; Dark ; 100.0; 166; 17Eps Leo ; 2.98; 6000;occ; 200; 0;35090
 9; 5136.3; 15-NOV-2008 12:44:06; Dark ; 89.5; 22; 32Alp Leo ; 1.36; 15200;occ; 179; 0;35090
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 13; 6841.5; 15-NOV-2008 13:12:31; Dark ; 78.0; 88; 31Eta CMA ; 2.45; 20000;occ; 156; 0;35090
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 5; 2774.9; 15-NOV-2008 13:45:20; Bright; 58.5; 114; 3Iot Aur ; 2.69; 4600;occ; 117; 0;35091
 6; 3033.0; 15-NOV-2008 13:49:38; Bright; 65.0; 6; 13Alp Aur ; 0.08; 3400;occ; 130; 0;35091
 7; 3214.4; 15-NOV-2008 13:52:40; Bright; 60.5; 42; 34Bet Aur ; 1.90; 10200;occ; 121; 0;35091
 8; 4740.4; 15-NOV-2008 14:18:06; Bright; 47.5; 96; 68Del Leo ; 2.56; 9300;occ; 95; 0;35091
 9; 4846.6; 15-NOV-2008 14:19:52; Dark ; 98.5; 166; 17Eps Leo ; 2.98; 6000;occ; 197; 0;35091
 10; 5137.7; 15-NOV-2008 14:24:43; Dark ; 91.0; 22; 32Alp Leo ; 1.36; 15200;occ; 182; 0;35091
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 13; 6734.7; 15-NOV-2008 14:51:20; Dark ; 77.0; 117; Pi Pup ; 2.71; 3800;occ; 154; 0;35091
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 15; 6978.0; 15-NOV-2008 14:55:23; Dark ; 80.0; 23; 21Eps CMA ; 1.50; 26000;occ; 160; 0;35091
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 6; 3032.1; 15-NOV-2008 15:30:13; Bright; 57.5; 6; 13Alp Aur ; 0.08; 3400;occ; 115; 0;35092
 7; 3213.2; 15-NOV-2008 15:33:14; Bright; 62.0; 42; 34Bet Aur ; 1.90; 10200;occ; 124; 0;35092
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 9; 4847.8; 15-NOV-2008 16:00:29; Dark ; 96.5; 166; 17Eps Leo ; 2.98; 6000;occ; 193; 0;35092
 10; 5139.2; 15-NOV-2008 16:05:20; Dark ; 93.0; 22; 32Alp Leo ; 1.36; 15200;occ; 186; 0;35092
 11; 5941.5; 15-NOV-2008 16:18:43; Dark ; 119.5; 48; 30Alp Hya ; 1.98; 4100;occ; 239; 0;35092
 12; 6484.4; 15-NOV-2008 16:27:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35092
 13; 6736.0; 15-NOV-2008 16:31:57; Dark ; 65.0; 117; Pi Pup ; 2.71; 3800;occ; 130; 0;35092
 14; 6844.6; 15-NOV-2008 16:33:46; Dark ; 75.0; 88; 31Eta CMA ; 2.45; 20000;occ; 150; 0;35092
 15; 6979.4; 15-NOV-2008 16:36:01; Dark ; 85.5; 23; 21Eps CMA ; 1.50; 26000;occ; 171; 0;35092
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 5; 2772.4; 15-NOV-2008 17:06:30; Bright; 65.0; 114; 3Iot Aur ; 2.69; 4600;occ; 130; 0;35093
 6; 3030.9; 15-NOV-2008 17:10:48; Bright; 57.5; 6; 13Alp Aur ; 0.08; 3400;occ; 115; 0;35093
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9; 4759.6; 18-NOV-2008 17:45:21; Bright; 50.0; 96; 68Del Leo ; 2.56; 9300;occ; 100; 0;35136
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 4; 1775.7; 19-NOV-2008 21:25:49; Dark ; 83.5; 7; 19Bet Ori ; 0.10; 14000;occ; 167; 0;35153
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 4; 1029.8; 21-NOV-2008 01:43:33; Dark ; 79.0; 23; 21Eps CMA ; 1.50; 26000;occ; 158; 0;35170
 5; 1168.8; 21-NOV-2008 01:45:53; Dark ; 89.5; 179; 240mi2CMA ; 3.03; 24000;occ; 179; 0;35170
 6; 1475.9; 21-NOV-2008 01:51:00; Dark ; 92.5; 47; 2Bet CMA ; 1.98; 28000;occ; 185; 0;35170
 7; 1771.8; 21-NOV-2008 01:55:55; Dark ; 70.5; 7; 19Bet Ori ; 0.10; 14000;occ; 141; 0;35170
 8; 2015.2; 21-NOV-2008 01:59:59; Dark ; 83.0; 30; 46Eps Ori ; 1.69; 30000;occ; 166; 0;35170
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11; 2955.9; 21-NOV-2008 02:15:40; Bright; 52.0; 6; 13Alp Aur ; 0.08; 3400;occ; 104; 0;35170
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9; 2946.3; 21-NOV-2008 20:42:06; Bright; 51.5; 6; 13Alp Aur ; 0.08; 3400;occ; 103; 0;35181
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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
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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
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8; 4213.2; 21-NOV-2008 14:20:48; Bright; 47.5; 174; 52Psi UMa ; 3.00; 4400;occ; 95; 0;35177
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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
9; 3098.1; 21-NOV-2008 19:04:01; Bright; 54.5; 42; 34Bet Aur ; 1.90; 10200;occ; 109; 0;35180
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14; 6042.2; 21-NOV-2008 19:53:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35180
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9; 1479.8; 22-NOV-2008 04:40:39; Dark ; 87.0; 47; 2Bet CMA ; 1.98; 28000;occ; 174; 0;35186
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10; 4210.4; 22-NOV-2008 20:31:33; Bright; 44.5; 174; 52Psi UMa ; 3.00; 4400;occ; 89; 0;35195
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13; 6885.7; 25-NOV-2008 09:37:42; Dark ; 58.5; 117; Pi Pup ; 2.71; 3800;occ; 117; 0;35231
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 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
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13; 6886.6; 25-NOV-2008 11:18:19; Dark ; 60.5; 117; Pi Pup ; 2.71; 3800;occ; 121; 0;35232
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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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4; 2145.9; 25-NOV-2008 11:39:54; Dark ; 74.0; 27; 24Gam Ori ; 1.64; 26000;occ; 148; 0;35233
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6; 2636.7; 25-NOV-2008 11:48:05; Bright; 49.5; 114; 3Iot Aur ; 2.69; 4600;occ; 99; 0;35233
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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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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
7; 2261.3; 25-NOV-2008 20:04:49; Bright; 55.5; 13; 87Alp Tau ; 0.87; 3800;occ; 111; 0;35238
8; 2633.0; 25-NOV-2008 20:11:01; Bright; 49.5; 114; 3Iot Aur ; 2.69; 4600;occ; 99; 0;35238
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
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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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12; 2898.3; 25-NOV-2008 21:56:02; Bright; 48.5; 6; 13Alp Aur ; 0.08; 3400;occ; 97; 0;35239
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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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
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3; 858.3; 26-NOV-2008 00:43:14; Dark ; 60.0; 117; Pi Pup ; 2.71; 3800;occ; 120; 0;35241
4; 1095.2; 26-NOV-2008 00:47:10; Dark ; 66.0; 23; 21Eps CMa ; 1.50; 26000;occ; 132; 0;35241
5; 1230.0; 26-NOV-2008 00:49:25; Dark ; 75.5; 179; 240mi2CMa ; 3.03; 24000;occ; 151; 0;35241
6; 1521.4; 26-NOV-2008 00:54:17; Dark ; 115.5; 1; 9Alp CMa ; -1.44; 11000;occ; 231; 0;35241
7; 1759.6; 26-NOV-2008 00:58:15; Dark ; 63.5; 7; 19Bet Ori ; 0.10; 14000;occ; 127; 0;35241
8; 1965.7; 26-NOV-2008 01:01:41; Dark ; 68.0; 30; 46Eps Ori ; 1.69; 30000;occ; 136; 0;35241
9; 2139.7; 26-NOV-2008 01:04:35; Dark ; 77.0; 27; 24Gam Ori ; 1.64; 26000;occ; 154; 0;35241
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13; 3027.3; 26-NOV-2008 01:19:23; Bright; 52.5; 42; 34Bet Aur ; 1.90; 10200;occ; 105; 0;35241
14; 4202.6; 26-NOV-2008 01:38:58; Bright; 46.0; 174; 52Psi UMa ; 3.00; 4400;occ; 92; 0;35241
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3; 859.3; 26-NOV-2008 02:23:50; Dark ; 60.0; 117; Pi Pup ; 2.71; 3800;occ; 120; 0;35242
4; 1096.0; 26-NOV-2008 02:27:47; Dark ; 67.5; 23; 21Eps CMa ; 1.50; 26000;occ; 135; 0;35242
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8; 1965.2; 26-NOV-2008 02:42:16; Dark ; 73.5; 30; 46Eps Ori ; 1.69; 30000;occ; 147; 0;35242
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4; 639.8; 26-NOV-2008 04:00:47; Dark ; 55.5; 70; Zet Pup ; 2.25; 39000;occ; 111; 0;35243
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6; 1097.0; 26-NOV-2008 04:08:24; Dark ; 72.0; 23; 21Eps CMA ; 1.50; 26000;occ; 144; 0;35243
7; 1231.8; 26-NOV-2008 04:10:39; Dark ; 80.0; 179; 240mi2CMA ; 3.03; 24000;occ; 160; 0;35243
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9; 1759.4; 26-NOV-2008 04:19:26; Dark ; 64.0; 7; 19Bet Ori ; 0.10; 14000;occ; 128; 0;35243
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11; 2138.3; 26-NOV-2008 04:25:45; Dark ; 76.0; 27; 24Gam Ori ; 1.64; 26000;occ; 152; 0;35243
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14; 2895.3; 26-NOV-2008 04:38:22; Bright; 51.5; 6; 13Alp Aur ; 0.08; 3400;occ; 103; 0;35243
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3; 163.0; 26-NOV-2008 05:33:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35244
4; 640.8; 26-NOV-2008 05:41:24; Dark ; 55.0; 70; Zet Pup ; 2.25; 39000;occ; 110; 0;35244
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6; 1097.8; 26-NOV-2008 05:49:01; Dark ; 68.5; 23; 21Eps CMA ; 1.50; 26000;occ; 137; 0;35244
7; 1232.4; 26-NOV-2008 05:51:16; Dark ; 81.0; 179; 240mi2CMA ; 3.03; 24000;occ; 162; 0;35244
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13; 2628.5; 26-NOV-2008 06:14:32; Bright; 48.5; 114; 3Iot Aur ; 2.69; 4600;occ; 97; 0;35244
14; 2894.5; 26-NOV-2008 06:18:58; Bright; 49.0; 6; 13Alp Aur ; 0.08; 3400;occ; 98; 0;35244
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6; 1098.6; 26-NOV-2008 07:29:38; Dark ; 74.0; 23; 21Eps CMA ; 1.50; 26000;occ; 148; 0;35245
7; 1233.3; 26-NOV-2008 07:31:52; Dark ; 76.0; 179; 240mi2CMA ; 3.03; 24000;occ; 152; 0;35245
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3; 2136.9; 26-NOV-2008 07:46:56; Dark ; 75.5; 27; 24Gam Ori ; 1.64; 26000;occ; 151; 0;35245
4; 2258.1; 26-NOV-2008 07:48:57; Bright; 56.5; 13; 87Alp Tau ; 0.87; 3800;occ; 113; 0;35245
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9; 4817.3; 26-NOV-2008 08:31:36; Bright; 61.0; 96; 68Del Leo ; 2.56; 9300;occ; 122; 0;35245
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13; 7135.4; 26-NOV-2008 09:10:15; Dark ; 69.0; 23; 21Eps CMA ; 1.50; 26000;occ; 138; 0;35245
14; 7269.9; 26-NOV-2008 09:12:29; Dark ; 80.5; 179; 240mi2CMA ; 3.03; 24000;occ; 161; 0;35245
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8; 4201.7; 26-NOV-2008 10:01:57; Bright; 48.5; 174; 52Psi UMa ; 3.00; 4400;occ; 97; 0;35246
9; 4817.9; 26-NOV-2008 10:12:13; Bright; 62.0; 96; 68Del Leo ; 2.56; 9300;occ; 124; 0;35246
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6; 2892.2; 26-NOV-2008 11:20:43; Bright; 48.5; 6; 13Alp Aur ; 0.08; 3400;occ; 97; 0;35247
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14; 7271.4; 26-NOV-2008 12:33:42; Dark ; 80.5; 179; 240mi2CMA ; 3.03; 24000;occ; 161; 0;35247
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4; 2134.0; 26-NOV-2008 14:29:17; Dark ; 67.0; 27; 24Gam Ori ; 1.64; 26000;occ; 134; 0;35249
5; 2256.4; 26-NOV-2008 14:31:19; Bright; 54.5; 13; 87Alp Tau ; 0.87; 3800;occ; 109; 0;35249
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13; 3013.4; 26-NOV-2008 23:06:56; Bright; 53.5; 42; 34Bet Aur ; 1.90; 10200;occ; 107; 0;35254
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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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5; 873.5; 27-NOV-2008 03:33:04; Dark ; 59.0; 117; Pi Pup ; 2.71; 3800;occ; 118; 0;35257
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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9; 2120.2; 28-NOV-2008 00:01:02; Dark ; 68.0; 27; 24Gam Ori ; 1.64; 26000;occ; 136; 0;35269
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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
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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
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 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
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 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
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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
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 2; 1757.1; 27-NOV-2008 12:10:47; Dark ; 64.0; 7; 19Bet Ori ; 0.10; 14000;occ; 128; 0;35262
 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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 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
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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
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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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3; 1524.9; 27-NOV-2008 18:49:19; Dark ; 101.5; 1; 9Alp CMA ; -1.44; 11000;occ; 203; 0;35266
4; 1756.7; 27-NOV-2008 18:53:11; Dark ; 62.5; 7; 19Bet Ori ; 0.10; 14000;occ; 125; 0;35266
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
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9; 2878.0; 27-NOV-2008 19:11:52; Bright; 48.5; 6; 13Alp Aur ; 0.08; 3400;occ; 97; 0;35266
10; 3000.6; 27-NOV-2008 19:13:54; Bright; 54.0; 42; 34Bet Aur ; 1.90; 10200;occ; 108; 0;35266
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12; 4831.0; 27-NOV-2008 19:44:25; Bright; 65.0; 96; 68Del Leo ; 2.56; 9300;occ; 130; 0;35266
13; 6261.0; 27-NOV-2008 20:08:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35266
14; 6702.2; 27-NOV-2008 20:15:36; Dark ; 54.5; 70; Zet Pup ; 2.25; 39000;occ; 109; 0;35266
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13; 2506.2; 28-NOV-2008 03:28:39; Bright; 57.0; 176; 23Zet Tau ; 3.02; 22000;occ; 114; 0;35271
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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
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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
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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
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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
14; 4919.7; 30-NOV-2008 11:28:39; Bright; 58.0; 62; 94Bet Leo ; 2.14; 9700;occ; 116; 0;35304
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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21; 6952.0; 30-NOV-2008 12:02:31; Dark ; 65.0; 117; Pi Pup ; 2.71; 3800;occ; 130; 0;35304
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
11; 3919.0; 30-NOV-2008 12:52:34; Bright; 46.0; 82; 48Bet UMa ; 2.37; 10600;occ; 92; 0;35305
12; 4015.1; 30-NOV-2008 12:54:10; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000;occ; 77; 0;35305
13; 4188.7; 30-NOV-2008 12:57:04; Bright; 51.5; 174; 52Psi UMa ; 3.00; 4400;occ; 103; 0;35305
14; 4348.1; 30-NOV-2008 12:59:43; Bright; 39.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 78; 0;35305
15; 4920.4; 30-NOV-2008 13:09:16; Bright; 56.5; 62; 94Bet Leo ; 2.14; 9700;occ; 113; 0;35305
16; 5118.4; 30-NOV-2008 13:12:34; Bright; 43.0; 121; 29Gam Vir ; 2.74; 7200;occ; 86; 0;35305
17; 5457.7; 30-NOV-2008 13:18:13; Dark ; 46.0; 100; 4Gam Crv ; 2.58; 13100;occ; 92; 0;35305
18; 5553.2; 30-NOV-2008 13:19:48; Dark ; 51.5; 171; 2Eps Crv ; 3.00; 4250;occ; 103; 0;35305
19; 6440.5; 30-NOV-2008 13:34:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35305
20; 6638.8; 30-NOV-2008 13:37:54; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;35305
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
23; 7098.8; 30-NOV-2008 13:45:34; Dark ; 44.0; 88; 31Eta CMA ; 2.45; 20000;occ; 88; 0;35305
24; 7181.3; 30-NOV-2008 13:46:56; Dark ; 66.5; 23; 21Eps CMA ; 1.50; 26000;occ; 133; 0;35305
25; 7571.6; 30-NOV-2008 13:53:27; Dark ; 8.5; 101; 11Alp Lep ; 2.58; 7000;occ; 17; 0;35305

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 3; 1934.9; 30-NOV-2008 14:00:06; Dark ; 63.0; 30; 46Eps Ori ; 1.69; 30000;occ; 126; 0;35306
 4; 2098.4; 30-NOV-2008 14:02:49; Dark ; 60.0; 27; 24Gam Ori ; 1.64; 26000;occ; 120; 0;35306
 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
 8; 2850.2; 30-NOV-2008 14:15:21; Bright; 51.5; 6; 13Alp Aur ; 0.08; 3400;occ; 103; 0;35306
 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
 20; 6639.8; 30-NOV-2008 15:18:31; Dark ; 47.0; 34; Gam2Vel ; 1.79; 23000;occ; 94; 0;35306
 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
 24; 7182.0; 30-NOV-2008 15:27:33; Dark ; 67.0; 23; 21Eps CMa ; 1.50; 26000;occ; 134; 0;35306

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 3; 1934.5; 30-NOV-2008 15:40:41; Dark ; 61.0; 30; 46Eps Ori ; 1.69; 30000;occ; 122; 0;35307
 4; 2097.8; 30-NOV-2008 15:43:25; Dark ; 60.5; 27; 24Gam Ori ; 1.64; 26000;occ; 121; 0;35307
 5; 2233.1; 30-NOV-2008 15:45:40; Bright; 54.0; 13; 87Alp Tau ; 0.87; 3800;occ; 108; 0;35307
 6; 2471.5; 30-NOV-2008 15:49:38; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;35307
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 8; 2849.4; 30-NOV-2008 15:55:56; Bright; 47.0; 6; 13Alp Aur ; 0.08; 3400;occ; 94; 0;35307
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 18; 5555.0; 30-NOV-2008 16:41:02; Dark ; 47.0; 171; 2Eps Crv ; 3.00; 4250;occ; 94; 0;35307
 19; 6442.3; 30-NOV-2008 16:55:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35307
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 5; 1934.1; 30-NOV-2008 17:21:17; Dark ; 63.0; 30; 46Eps Ori ; 1.69; 30000;occ; 126; 0;35308
 6; 2097.3; 30-NOV-2008 17:24:00; Dark ; 60.5; 27; 24Gam Ori ; 1.64; 26000;occ; 121; 0;35308
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 13; 3917.8; 30-NOV-2008 17:54:21; Bright; 46.5; 82; 48Bet UMa ; 2.37; 10600;occ; 93; 0;35308
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 15; 4187.8; 30-NOV-2008 17:58:51; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;35308
 16; 4348.3; 30-NOV-2008 18:01:31; Bright; 39.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 79; 0;35308
 17; 4922.6; 30-NOV-2008 18:11:06; Bright; 58.0; 62; 94Bet Leo ; 2.14; 9700;occ; 116; 0;35308


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18; 5120.3; 30-NOV-2008 18:14:23; Bright; 42.5; 121; 29Gam Vir ; 2.74; 7200;occ; 85; 0;35308
19; 5460.1; 30-NOV-2008 18:20:03; Dark ; 46.0; 100; 4Gam Crv ; 2.58; 13100;occ; 92; 0;35308
20; 5555.7; 30-NOV-2008 18:21:39; Dark ; 48.5; 171; 2Eps Crv ; 3.00; 4250;occ; 97; 0;35308
21; 6443.1; 30-NOV-2008 18:36:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35308
22; 6641.6; 30-NOV-2008 18:39:45; Dark ; 47.0; 34; Gam2Vel ; 1.79; 23000;occ; 94; 0;35308
23; 6747.2; 30-NOV-2008 18:41:30; Dark ; 56.5; 70; Zet Pup ; 2.25; 39000;occ; 113; 0;35308
24; 6955.5; 30-NOV-2008 18:44:59; Dark ; 57.0; 117; Pi Pup ; 2.71; 3800;occ; 114; 0;35308
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2; 1065.5; 30-NOV-2008 18:47:25; Dark ; 47.0; 88; 31Eta CMa ; 2.45; 20000;occ; 94; 0;35309
3; 1147.5; 30-NOV-2008 18:48:46; Dark ; 68.0; 23; 21Eps CMa ; 1.50; 26000;occ; 136; 0;35309
4; 1536.1; 30-NOV-2008 18:55:15; Dark ; 54.0; 101; 11Alp Lep ; 2.58; 7000;occ; 108; 0;35309
5; 1752.6; 30-NOV-2008 18:58:52; Dark ; 63.0; 7; 19Bet Ori ; 0.10; 14000;occ; 126; 0;35309
6; 1933.7; 30-NOV-2008 19:01:53; Dark ; 64.5; 30; 46Eps Ori ; 1.69; 30000;occ; 129; 0;35309
7; 2096.7; 30-NOV-2008 19:04:36; Dark ; 58.5; 27; 24Gam Ori ; 1.64; 26000;occ; 117; 0;35309
8; 2232.5; 30-NOV-2008 19:06:51; Bright; 54.5; 13; 87Alp Tau ; 0.87; 3800;occ; 109; 0;35309
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
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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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