

GOMOS Daily Report 27-SEP-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	29SEP2008 05:33:10
Data source version	GOMOS/5.00
Start time of products	27SEP2008 20:40:35
Stop time of products	27SEP2008 23:56:22
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)

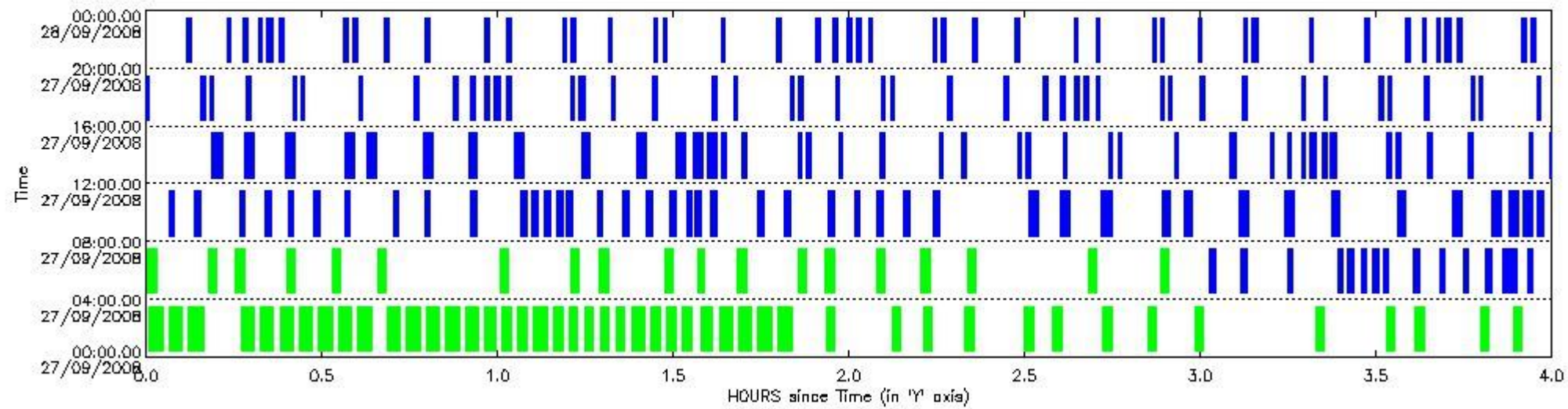
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

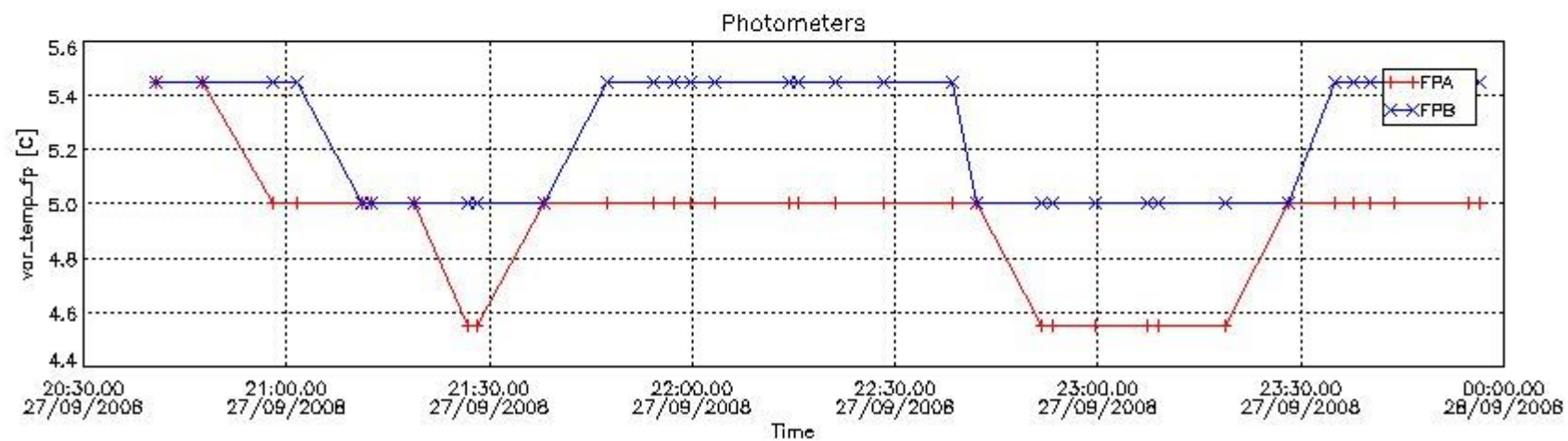
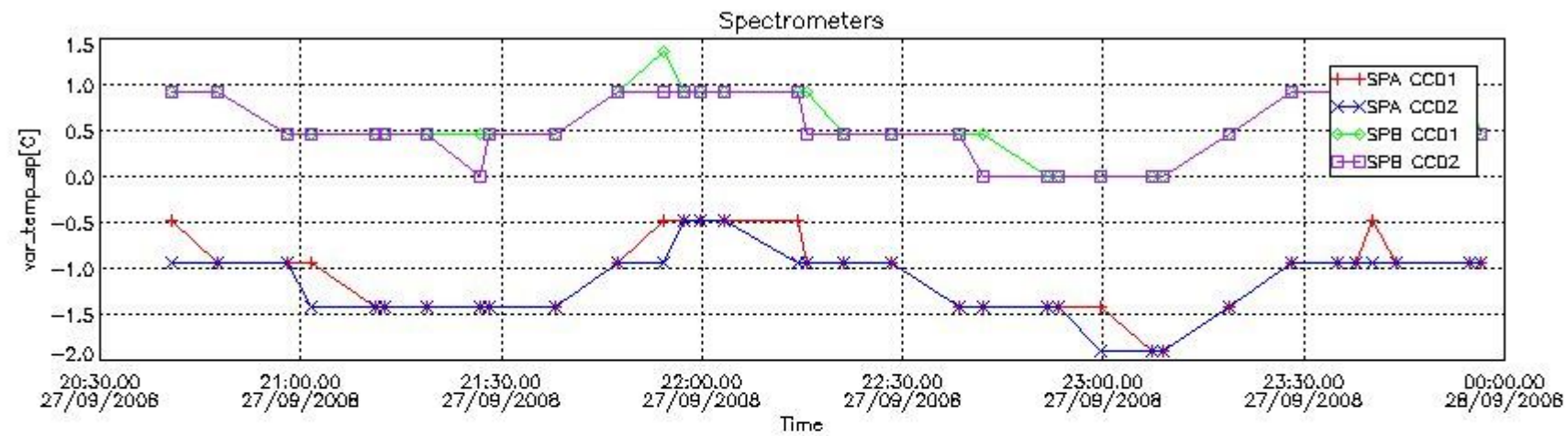
No missing products.

2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20080927_204035_000000432072_00272_34394_9903.N1	27-SEP-2008 20:40:35	Straylight	42.500	84	Alp Phe	2.3970	4500.0	85	34394	No
2	GOM_TRA_1PNPDE20080927_204738_000000502072_00272_34394_9904.N1	27-SEP-2008 20:47:38	Straylight	50.000	52	16Bet Cet	2.0370	4500.0	100	34394	No
3	GOM_TRA_1PNPDE20080927_205752_000000372072_00272_34394_9905.N1	27-SEP-2008 20:57:52	Bright	37.000	90	54Alp Peg	2.4870	11000.	74	34394	No
4	GOM_TRA_1PNPDE20080927_210133_000000382072_00272_34394_9906.N1	27-SEP-2008 21:01:33	Bright	38.000	93	53Bet Peg	2.5200	3100.0	76	34394	No
5	GOM_TRA_1PNPDE20080927_211109_000000392072_00272_34394_9907.N1	27-SEP-2008 21:11:09	Bright	38.500	74	11Bet Cas	2.2680	6600.0	77	34394	No
6	GOM_TRA_1PNPDE20080927_211235_000000402072_00272_34394_9908.N1	27-SEP-2008 21:12:35	Bright	39.500	76	27Gam Cas	2.3000	30000.	79	34394	No
7	GOM_TRA_1PNPDE20080927_211855_000000372072_00272_34394_9909.N1	27-SEP-2008 21:18:55	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	34394	No
8	GOM_TRA_1PNPDE20080927_212646_000000352072_00272_34394_9910.N1	27-SEP-2008 21:26:46	Bright	34.500	36	50Alp UMa	1.8000	6300.0	69	34394	No
9	GOM_TRA_1PNPDE20080927_212816_000000342072_00272_34394_9911.N1	27-SEP-2008 21:28:16	Bright	33.500	82	48Bet UMa	2.3650	10600.	67	34394	No
10	GOM_TRA_1PNPDE20080927_213806_000000352072_00272_34394_9912.N1	27-SEP-2008 21:38:06	Bright	34.500	166	17Eps Leo	2.9800	6000.0	69	34394	No
11	GOM_TRA_1PNPDE20080927_214732_000000442072_00272_34394_9913.N1	27-SEP-2008 21:47:32	Twilight	43.500	48	30Alp Hya	1.9770	4100.0	87	34394	No
12	GOM_TRA_1PNPDE20080927_215421_000000452072_00272_34394_0054.N1	27-SEP-2008 21:54:21	Dark	45.000	132	15Rho Pup	2.8030	6900.0	90	34394	No

13	GOM_TRA_1PNPDE20080927_215713_000000432072_00272_34394_0055.N1	27-SEP-2008 21:57:13	Dark	43.000	65	Lam Vel	2.2040	4400.0	86	34394	No
14	GOM_TRA_1PNPDE20080927_215942_000000392072_00272_34394_0056.N1	27-SEP-2008 21:59:42	Dark	39.000	34	Gam2Vel	1.7930	23000.	78	34394	No
15	GOM_TRA_1PNPDE20080927_220319_000000432072_00273_34395_0057.N1	27-SEP-2008 22:03:19	Dark	42.500	161	Tau Pup	2.9310	4500.0	85	34395	No
16	GOM_TRA_1PNPDE20080927_221418_000000382072_00273_34395_0058.N1	27-SEP-2008 22:14:18	Dark	37.500	143	Alp Hyi	2.8570	7200.0	75	34395	No
17	GOM_TRA_1PNPDE20080927_221545_000000452072_00273_34395_0059.N1	27-SEP-2008 22:15:45	Dark	45.000	9	Alp Eri	0.45300	24000.	90	34395	No
18	GOM_TRA_1PNPDE20080927_222111_000000382072_00273_34395_0060.N1	27-SEP-2008 22:21:11	Straylight	37.500	84	Alp Phe	2.3970	4500.0	75	34395	No
19	GOM_TRA_1PNPDE20080927_222814_000000522072_00273_34395_0061.N1	27-SEP-2008 22:28:14	Straylight	51.500	52	16Bet Cet	2.0370	4500.0	103	34395	No
20	GOM_TRA_1PNPDE20080927_223828_000000372072_00273_34395_0062.N1	27-SEP-2008 22:38:28	Bright	37.000	90	54Alp Peg	2.4870	11000.	74	34395	No
21	GOM_TRA_1PNPDE20080927_224209_000000352072_00273_34395_0063.N1	27-SEP-2008 22:42:09	Bright	35.000	93	53Bet Peg	2.5200	3100.0	70	34395	No
22	GOM_TRA_1PNPDE20080927_225144_000000392072_00273_34395_0064.N1	27-SEP-2008 22:51:44	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	34395	No
23	GOM_TRA_1PNPDE20080927_225310_000000392072_00273_34395_0065.N1	27-SEP-2008 22:53:10	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	34395	No
24	GOM_TRA_1PNPDE20080927_225931_000000362072_00273_34395_0066.N1	27-SEP-2008 22:59:31	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	34395	No
25	GOM_TRA_1PNPDE20080927_230722_000000372072_00273_34395_0067.N1	27-SEP-2008 23:07:22	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	34395	No
26	GOM_TRA_1PNPDE20080927_230852_000000522072_00273_34395_0068.N1	27-SEP-2008 23:08:52	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	34395	No
27	GOM_TRA_1PNPDE20080927_231842_000000342072_00273_34395_0069.N1	27-SEP-2008 23:18:42	Bright	34.000	166	17Eps Leo	2.9800	6000.0	68	34395	No
28	GOM_TRA_1PNPDE20080927_232808_000000462072_00273_34395_0070.N1	27-SEP-2008 23:28:08	Twilight	46.000	48	30Alp Hya	1.9770	4100.0	92	34395	No
29	GOM_TRA_1PNPDE20080927_233457_000000442072_00273_34395_0195.N1	27-SEP-2008 23:34:57	Dark	44.000	132	15Rho Pup	2.8030	6900.0	88	34395	No
30	GOM_TRA_1PNPDE20080927_233749_000000452072_00273_34395_0196.N1	27-SEP-2008 23:37:49	Dark	44.500	65	Lam Vel	2.2040	4400.0	89	34395	No
31	GOM_TRA_1PNPDE20080927_234018_000000402072_00273_34395_0197.N1	27-SEP-2008 23:40:18	Dark	40.000	34	Gam2Vel	1.7930	23000.	80	34395	No
32	GOM_TRA_1PNPDE20080927_234356_000000412072_00274_34396_0198.N1	27-SEP-2008 23:43:56	Dark	41.000	161	Tau Pup	2.9310	4500.0	82	34396	No
33	GOM_TRA_1PNPDE20080927_235454_000000392072_00274_34396_0199.N1	27-SEP-2008 23:54:54	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	34396	No
34	GOM_TRA_1PNPDE20080927_235622_000000492072_00274_34396_0200.N1	27-SEP-2008 23:56:22	Dark	48.500	9	Alp Eri	0.45300	24000.	97	34396	No

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



4. Overview of dark signal processing per product

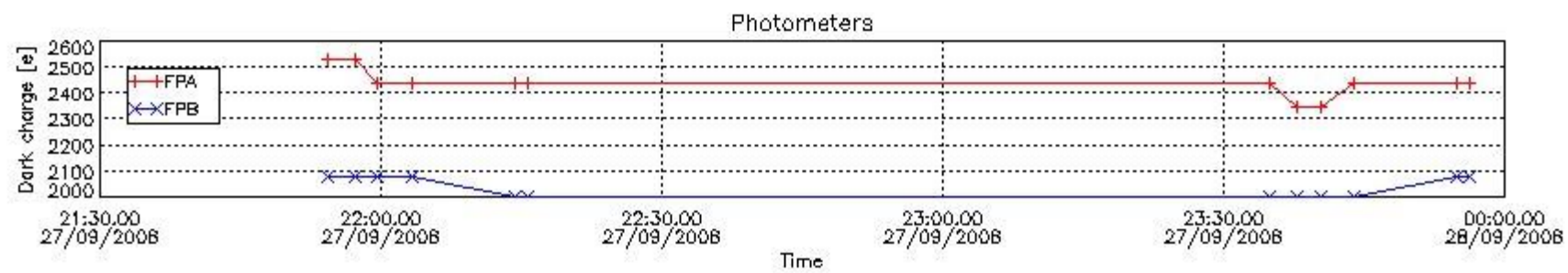
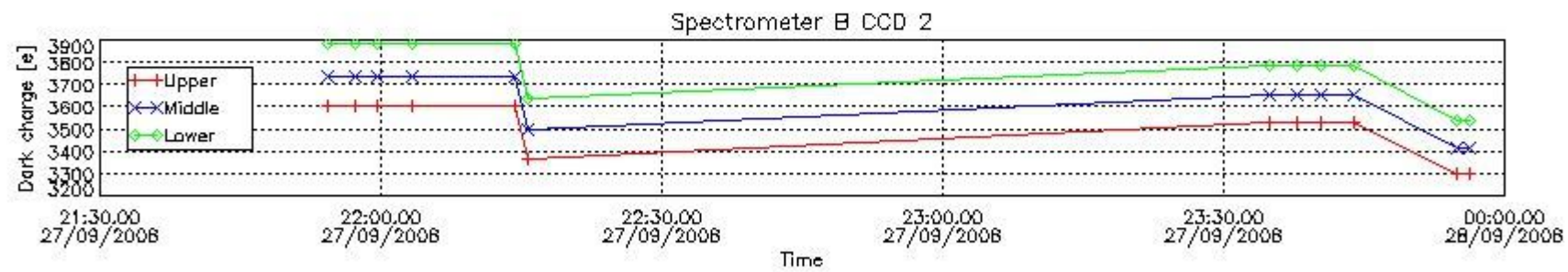
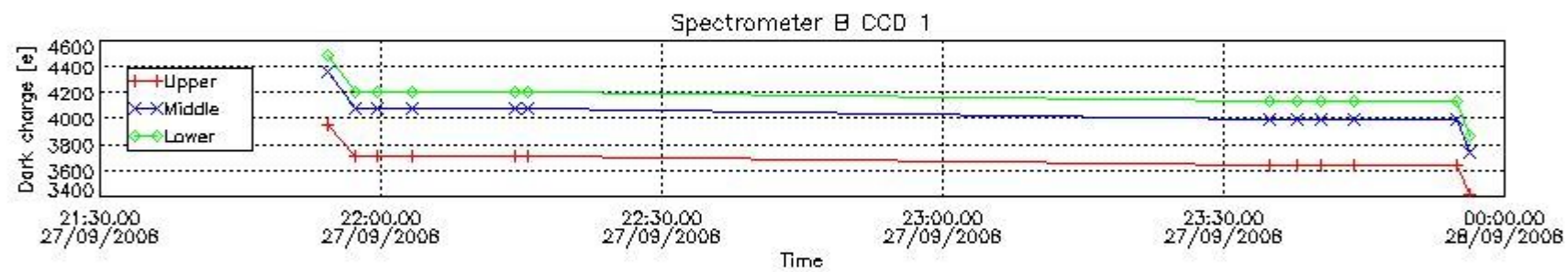
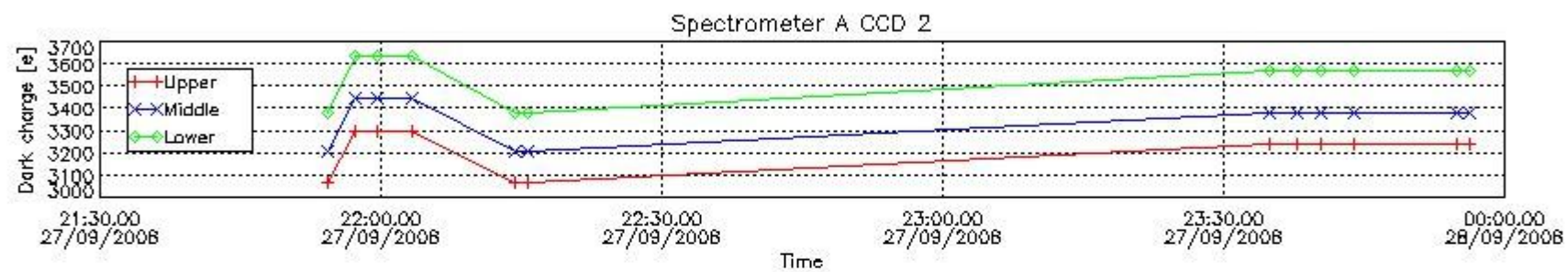
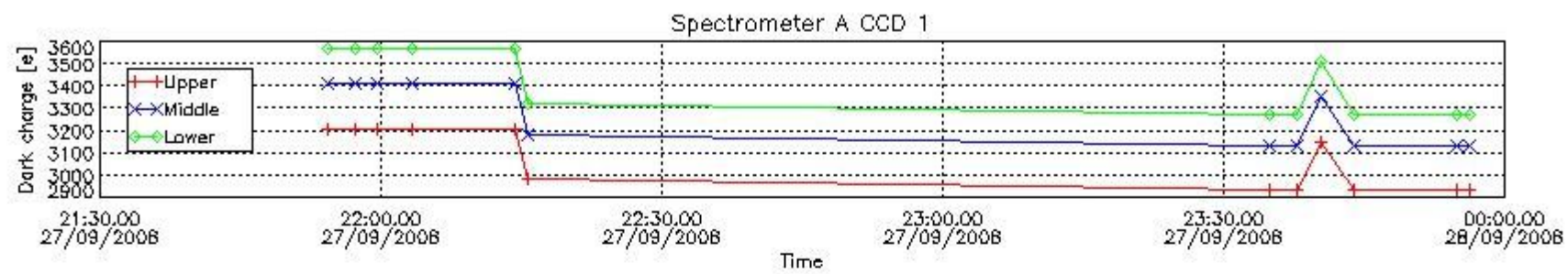
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20080927_204035_000000432072_00272_34394_9903.N1	DC map used
GOM_TRA_1PNPDE20080927_204738_000000502072_00272_34394_9904.N1	DC map used
GOM_TRA_1PNPDE20080927_205752_000000372072_00272_34394_9905.N1	DC map used
GOM_TRA_1PNPDE20080927_210133_000000382072_00272_34394_9906.N1	DC map used
GOM_TRA_1PNPDE20080927_211109_000000392072_00272_34394_9907.N1	DC map used
GOM_TRA_1PNPDE20080927_211235_000000402072_00272_34394_9908.N1	DC map used
GOM_TRA_1PNPDE20080927_211855_000000372072_00272_34394_9909.N1	DC map used
GOM_TRA_1PNPDE20080927_212646_000000352072_00272_34394_9910.N1	DC map used
GOM_TRA_1PNPDE20080927_212816_000000342072_00272_34394_9911.N1	DC map used
GOM_TRA_1PNPDE20080927_213806_000000352072_00272_34394_9912.N1	DC map used
GOM_TRA_1PNPDE20080927_214732_000000442072_00272_34394_9913.N1	DC map used

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



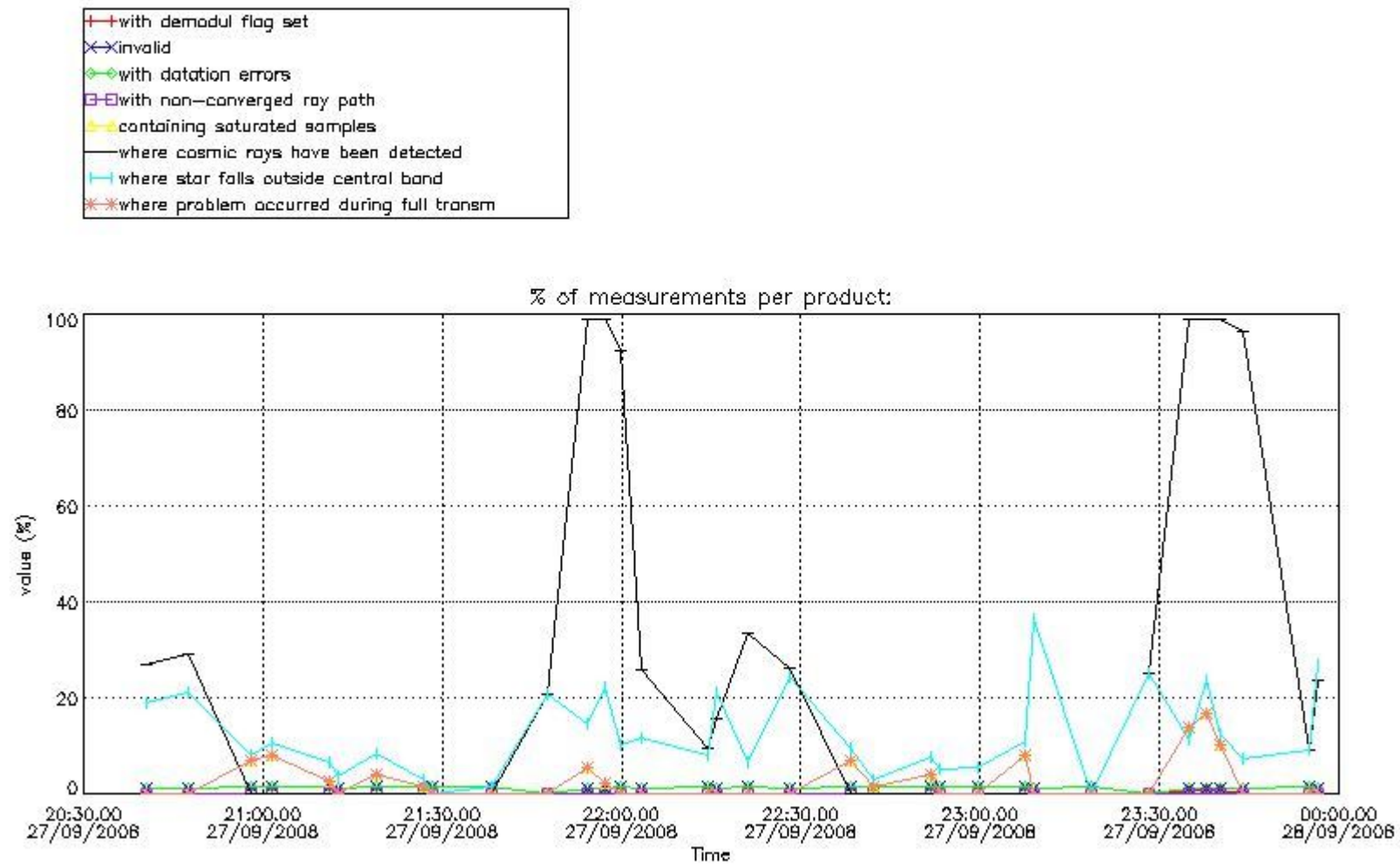
5. Demodulation flag and quality information monitoring

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.

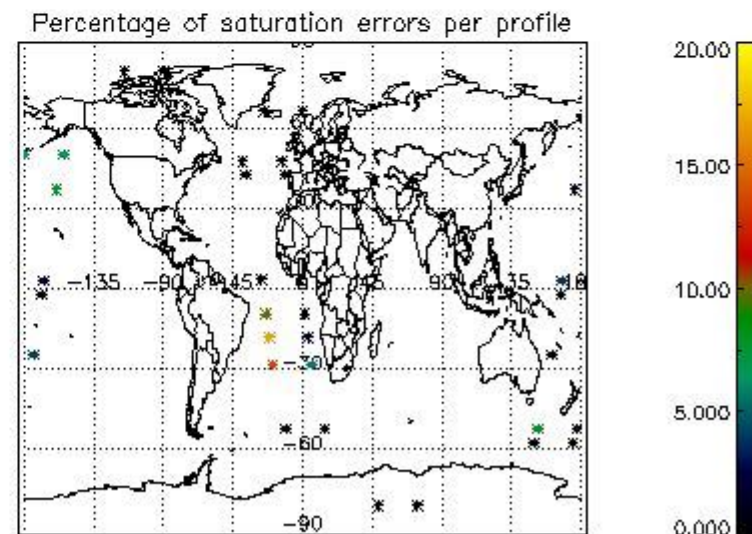
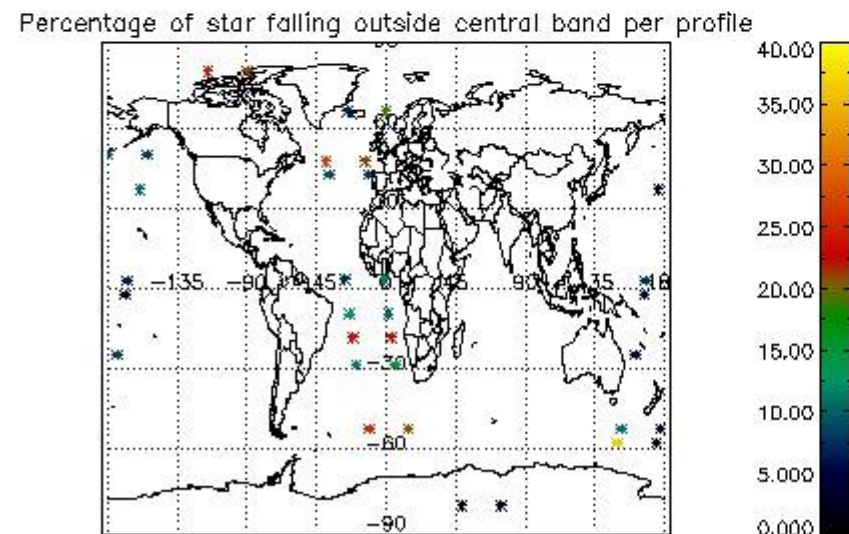
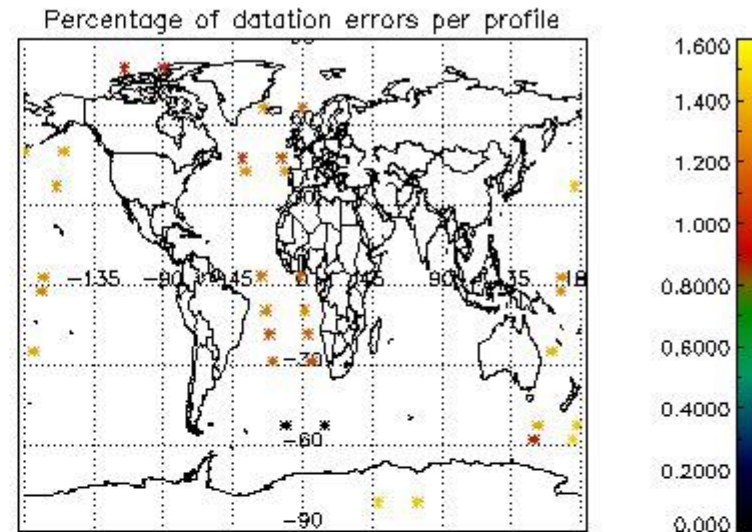
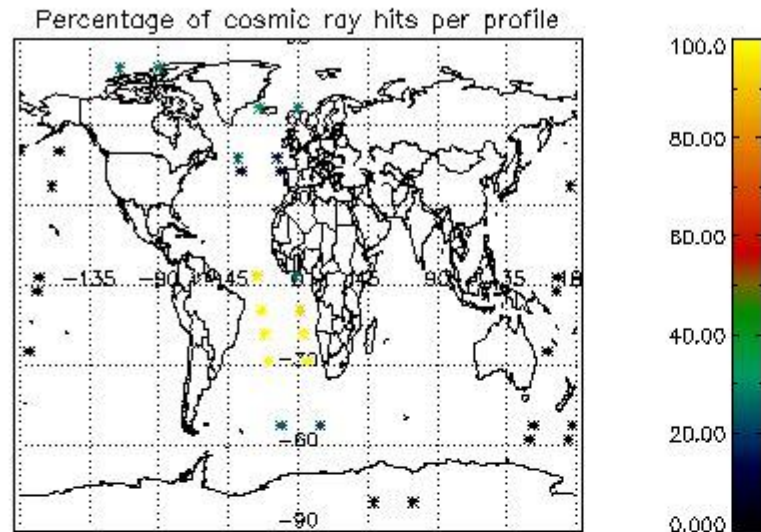
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	38.2353 %
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)



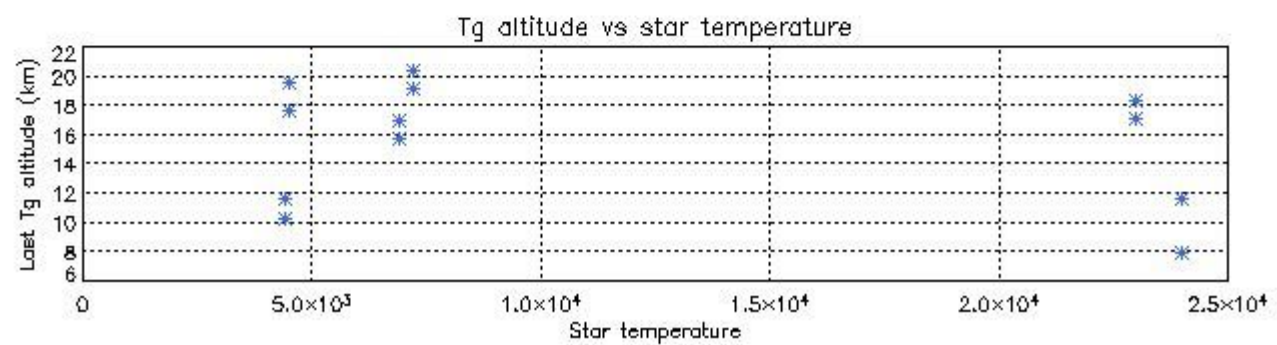
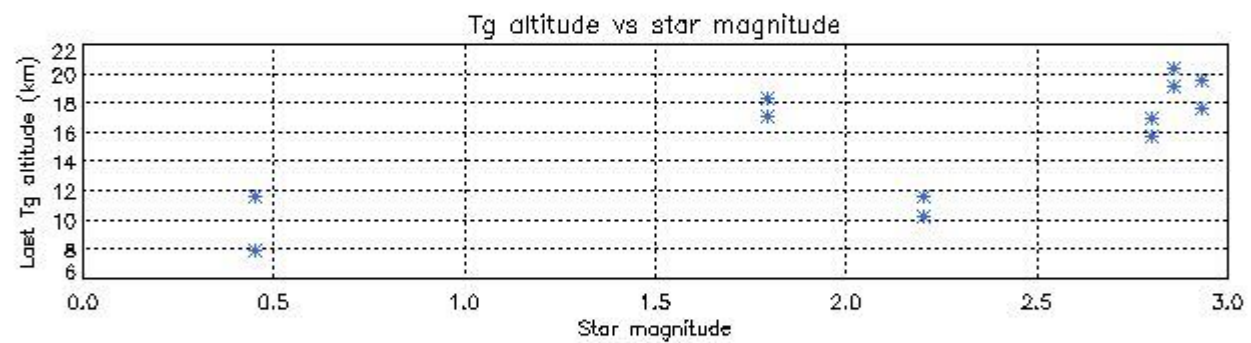
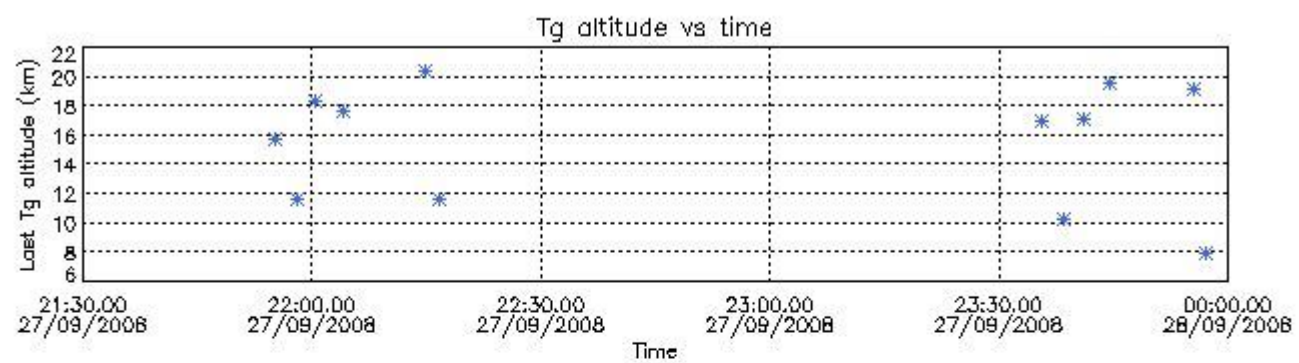
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.504	20.418	10.495
St. deviation:	4.1052	5.1789	1.6309
Maximum:	20.388	25.457	11.648
Minimum:	7.9437	3.2935	9.3413
Number of data:	12.000	16.000	2.0000

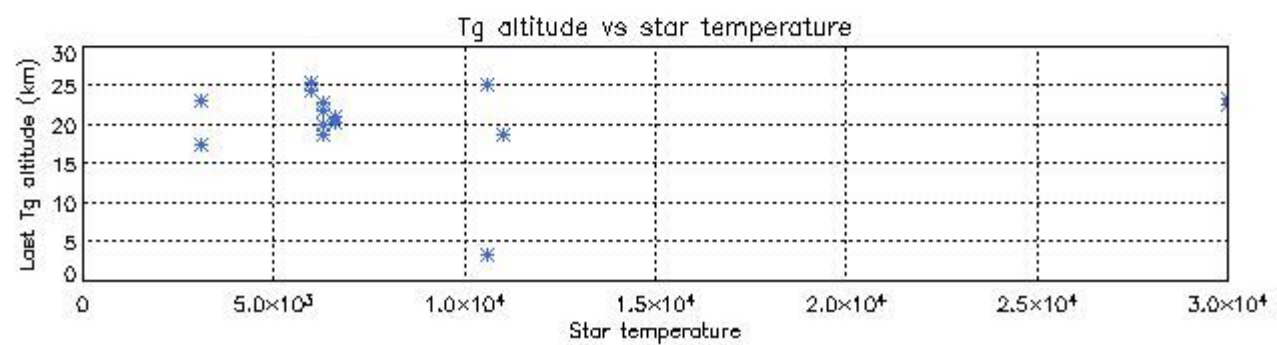
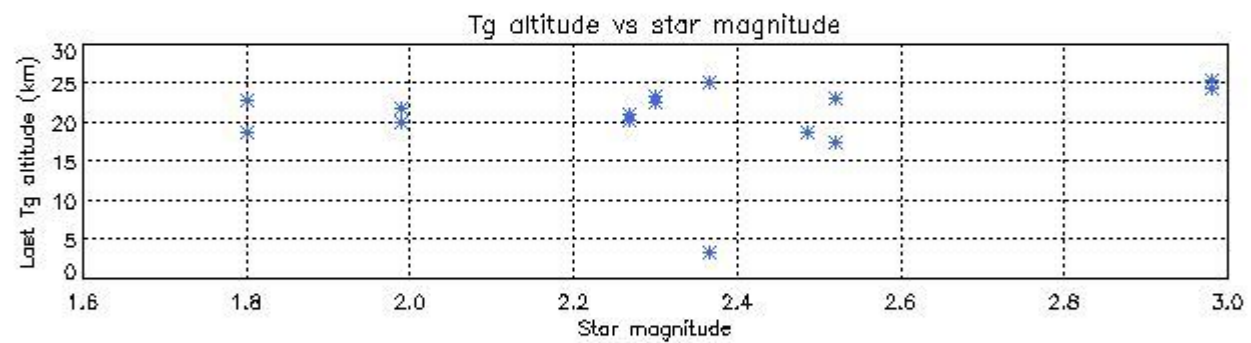
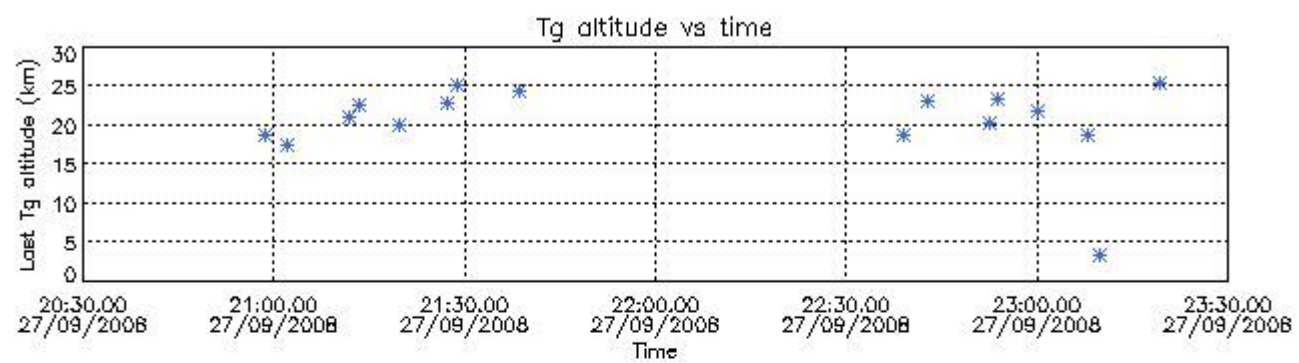
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



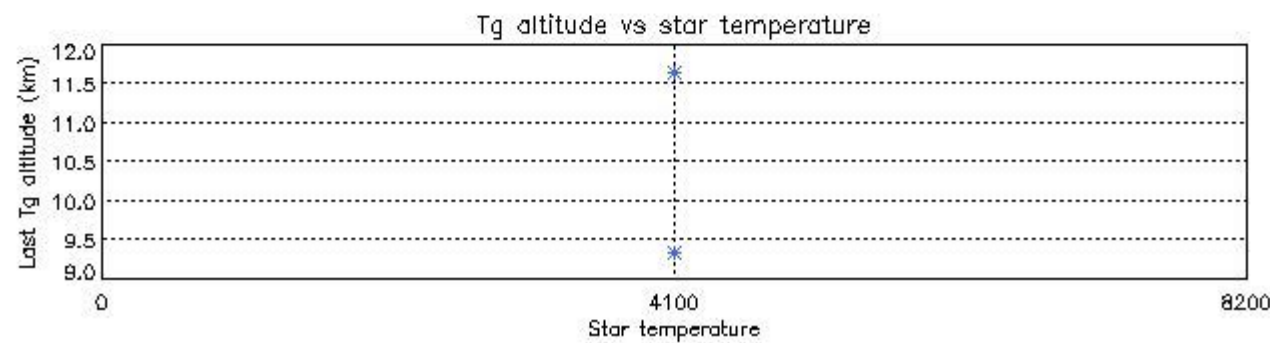
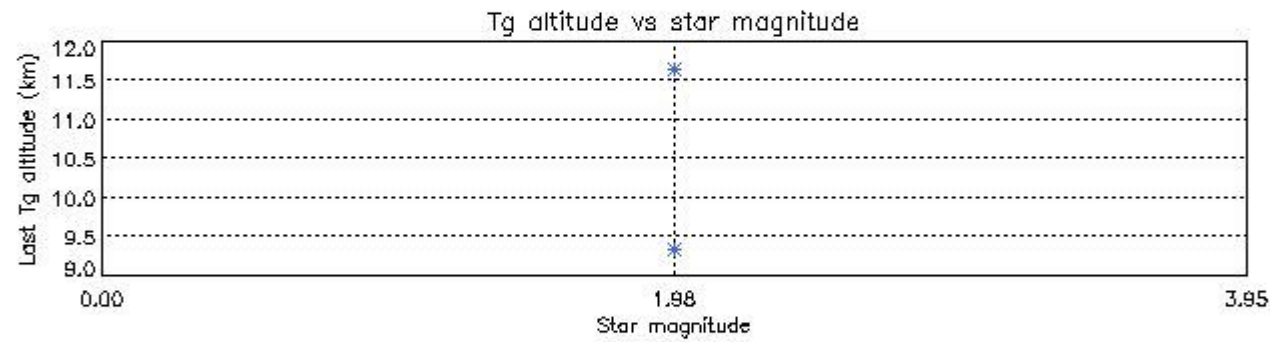
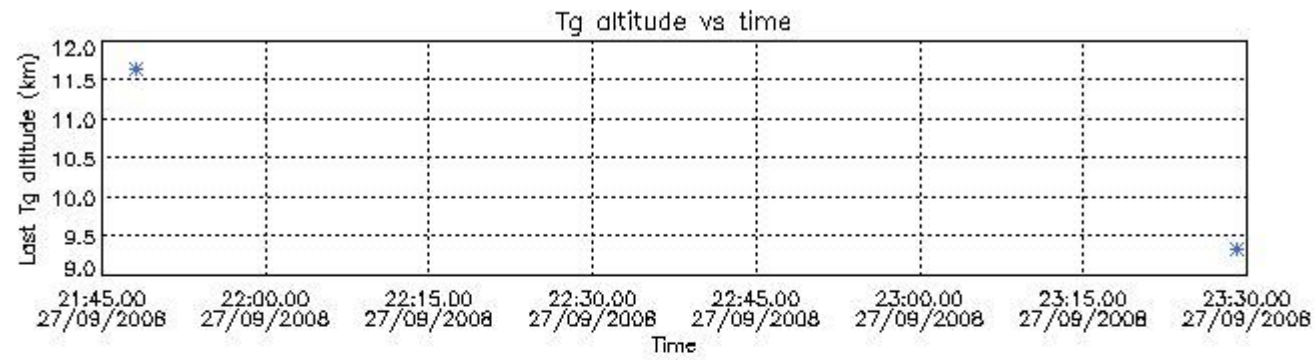
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

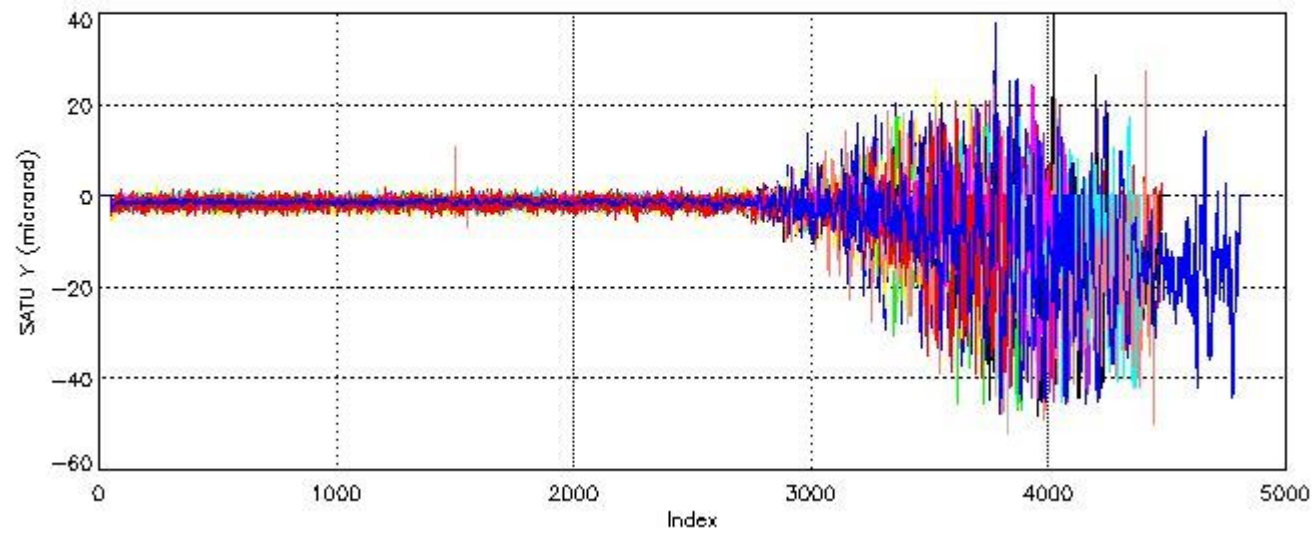
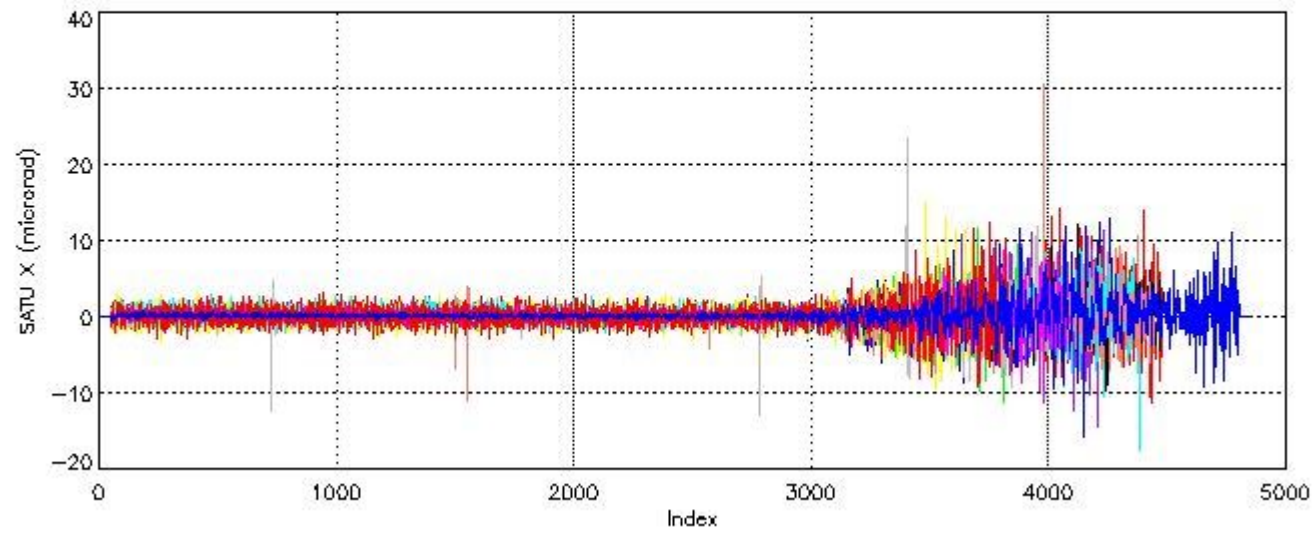


7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.11355	-1.3665	0.061185	-1.3147
St. deviation:	0.55685	0.74626	0.68210	0.83601
Maximum:	4.7000	2.2000	3.5000	2.4000
Minimum:	-12.300	-5.4000	-3.8000	-5.4000

Number of data:	10950.	10950.	13400.	13400.
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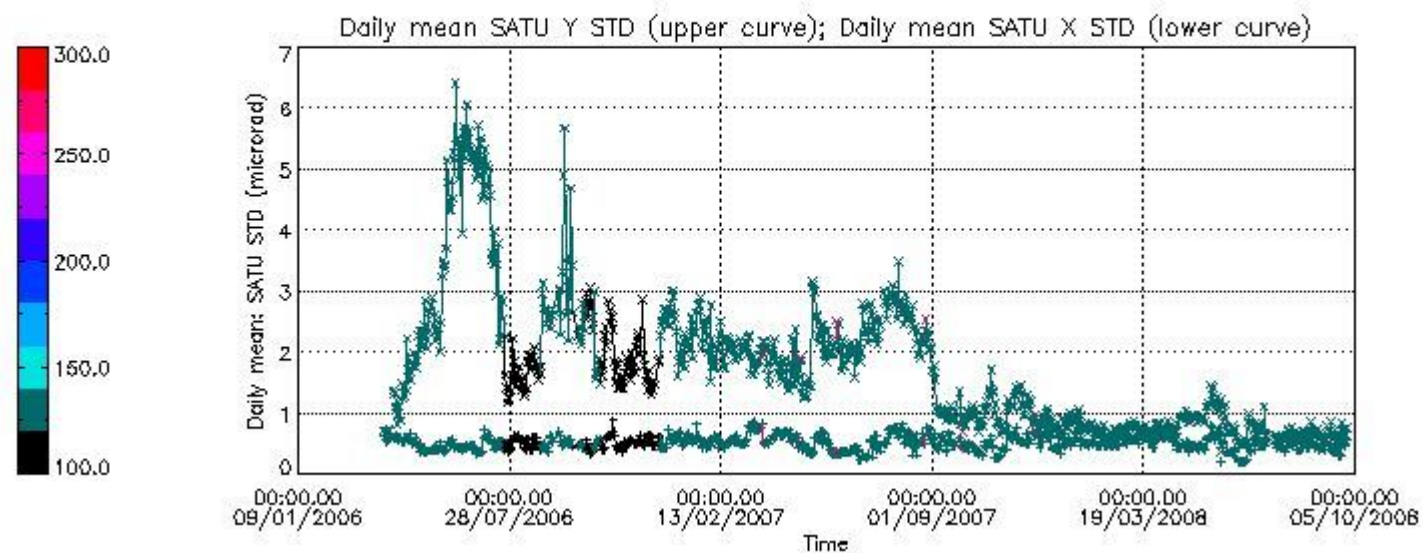
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

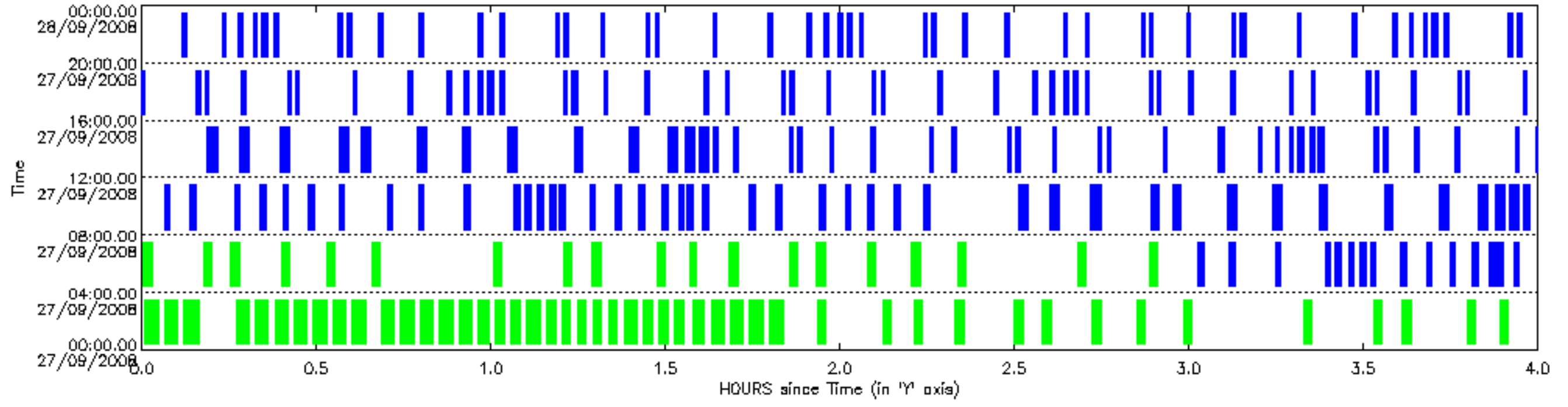
Lower curve: STD of SATU X axis

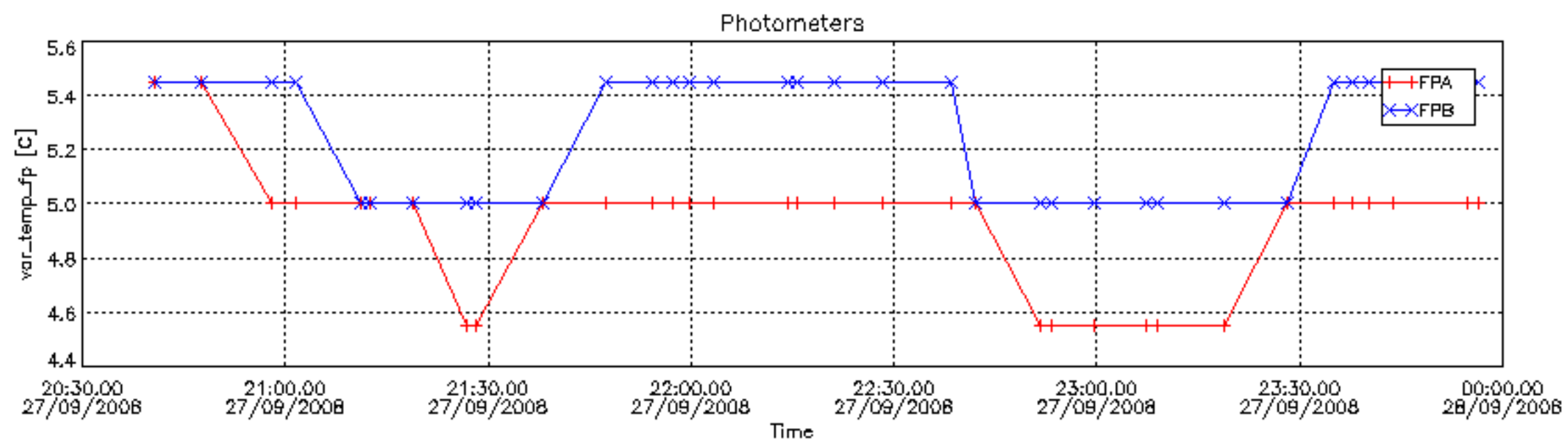
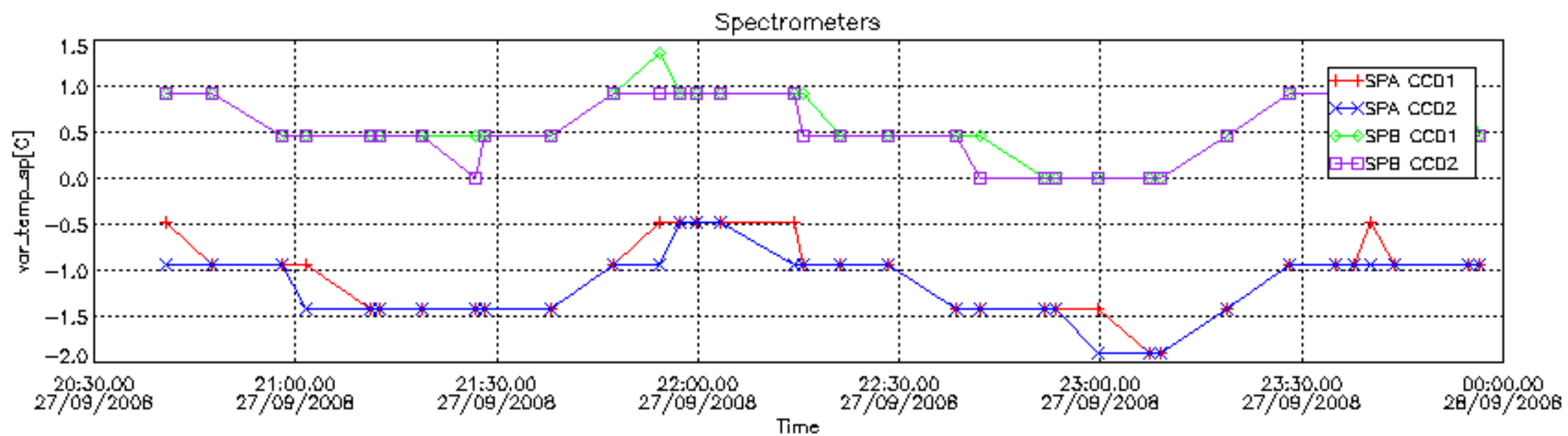


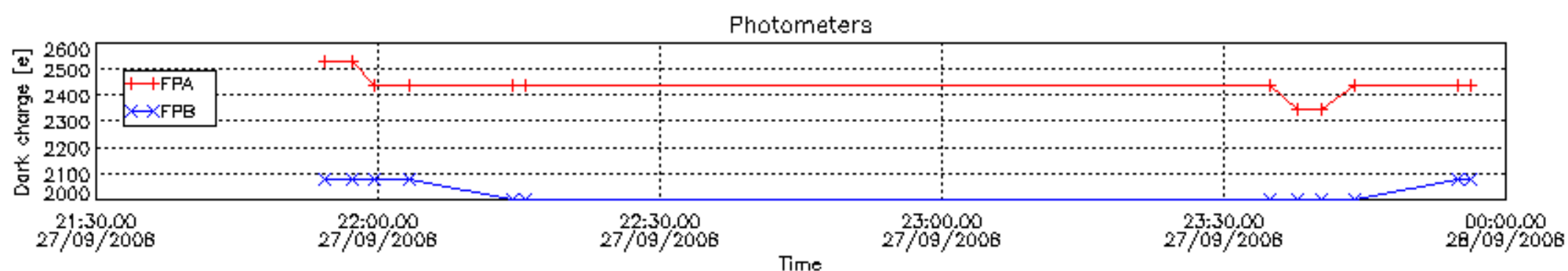
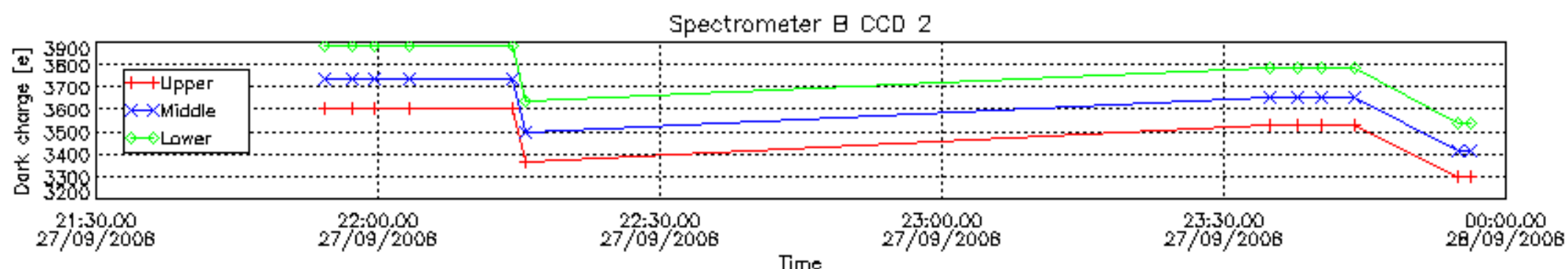
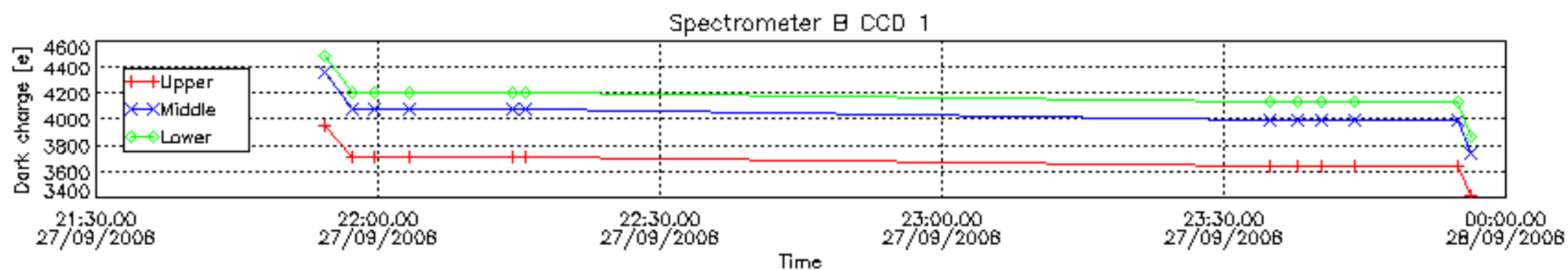
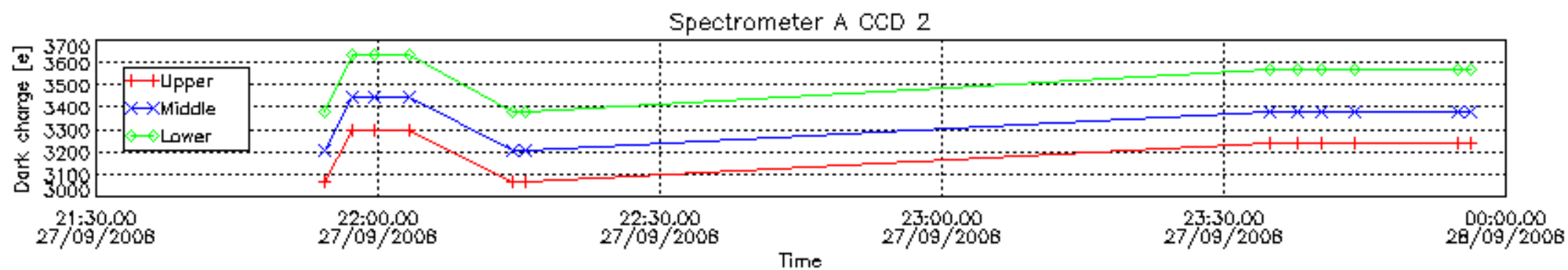
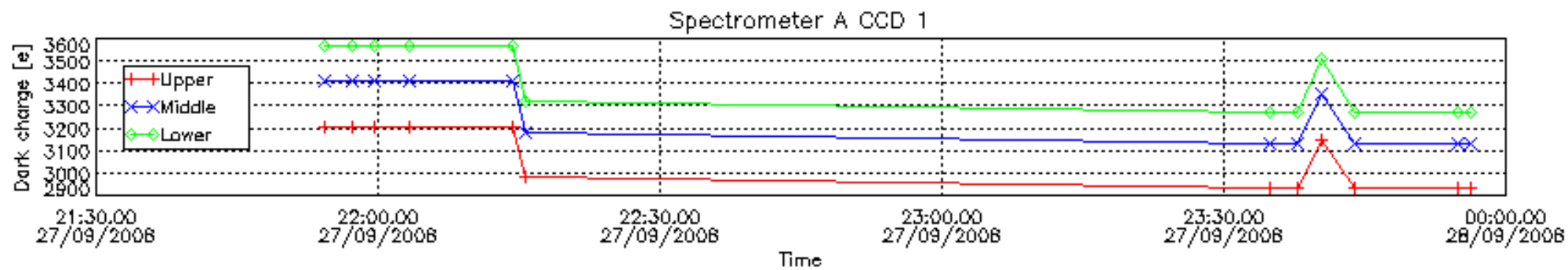
8. Auxiliary Data Files used for the production reported in section 2.4

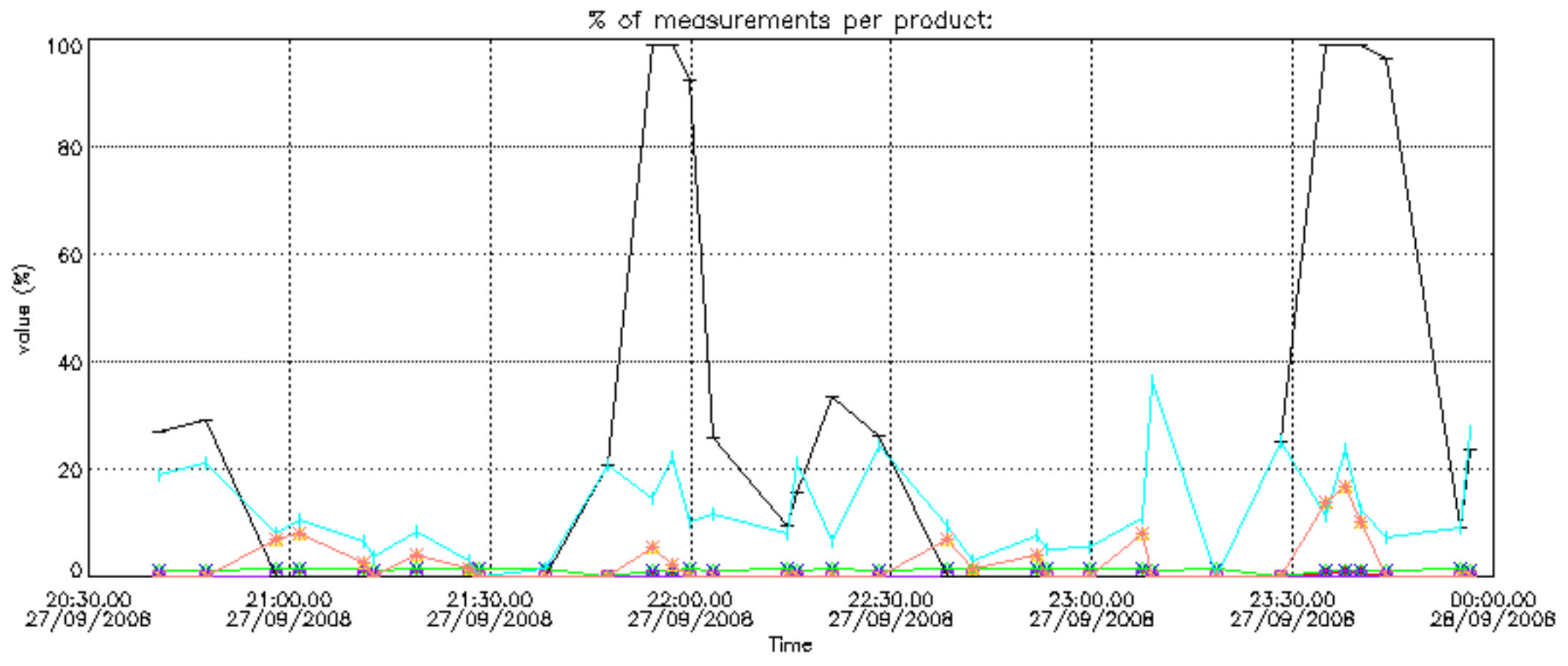
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	27-SEP-2008 20:40:35
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080922_092941_20080919_000000_20100101_000000	1	27-SEP-2008 20:40:35
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	27-SEP-2008 20:40:35
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	27-SEP-2008 20:40:35
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	27-SEP-2008 20:40:35
ECMWF_FILE	AUX_ECF_AXNECM20080927_072111_20080927_150000_20080928_030000	1	27-SEP-2008 20:40:35
ECMWF_FILE	AUX_ECF_AXNECM20080927_072111_20080927_210000_20080928_090000	12	27-SEP-2008 21:54:21
OPTIONAL_ECMWF_FILE	MISSING	1	27-SEP-2008 20:40:35
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080927_203336_000041442072_00272_34394_6444.N1	1	27-SEP-2008 20:40:35
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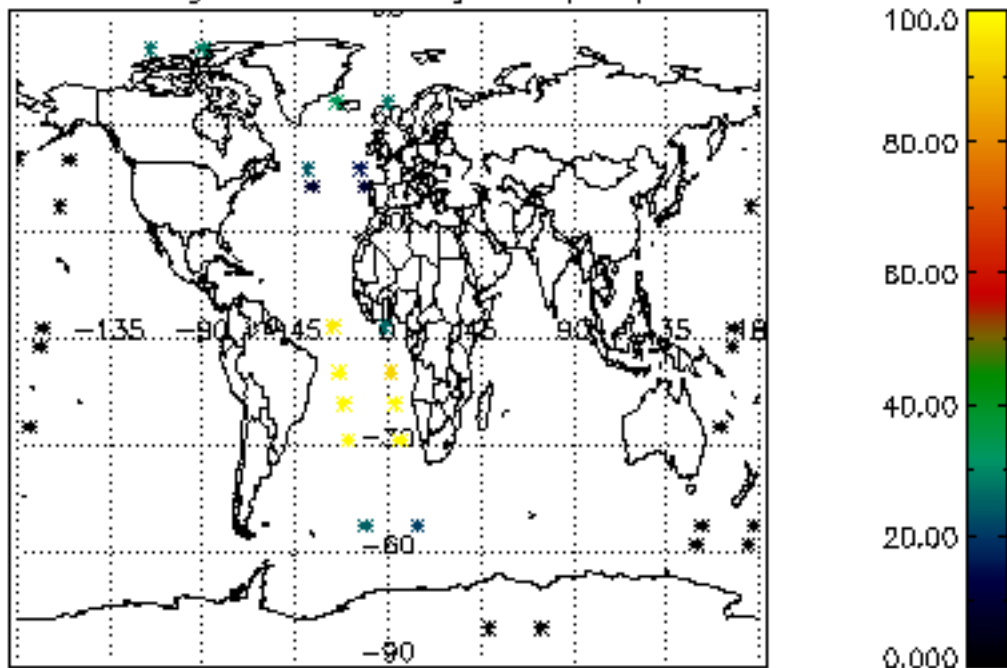




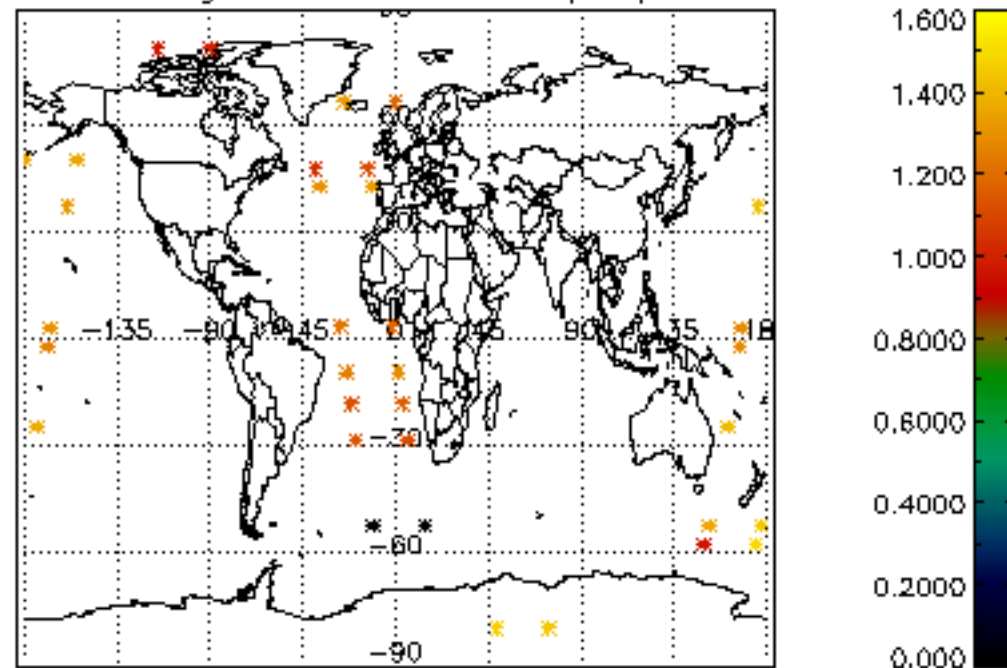




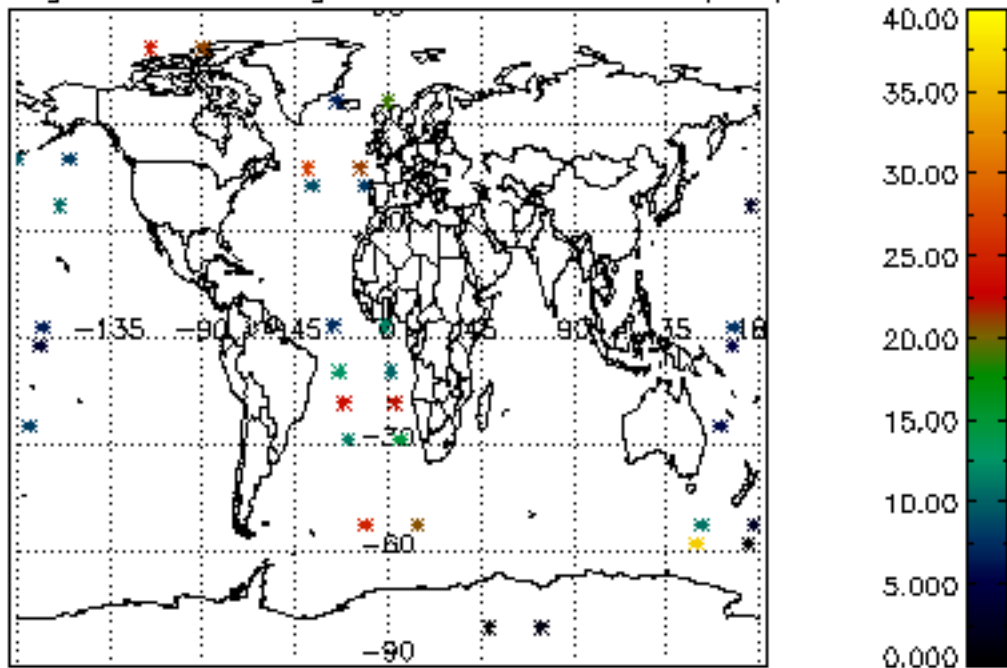
Percentage of cosmic ray hits per profile



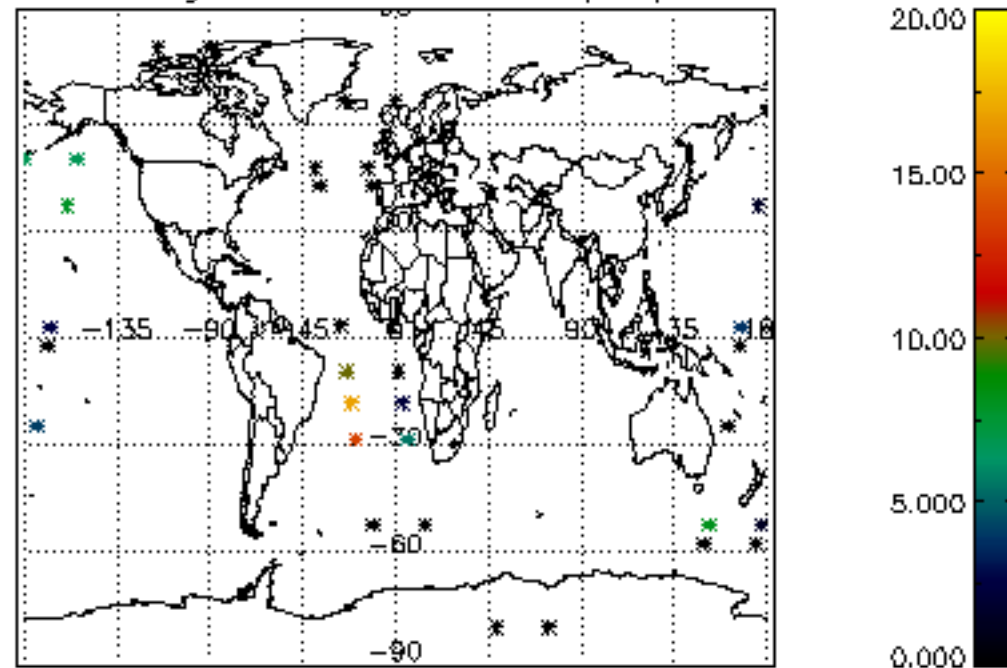
Percentage of datation errors per profile



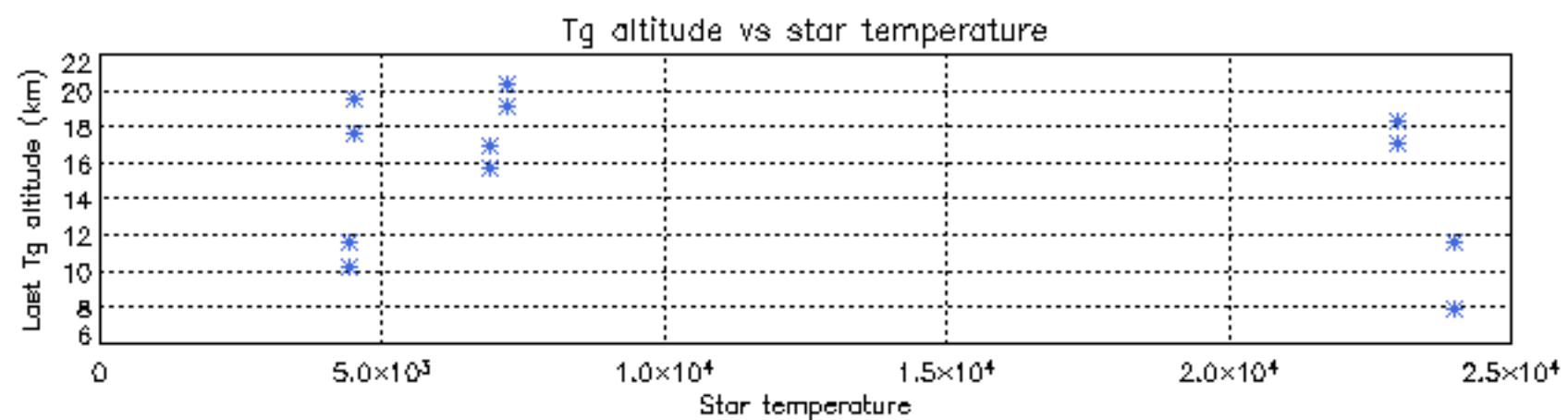
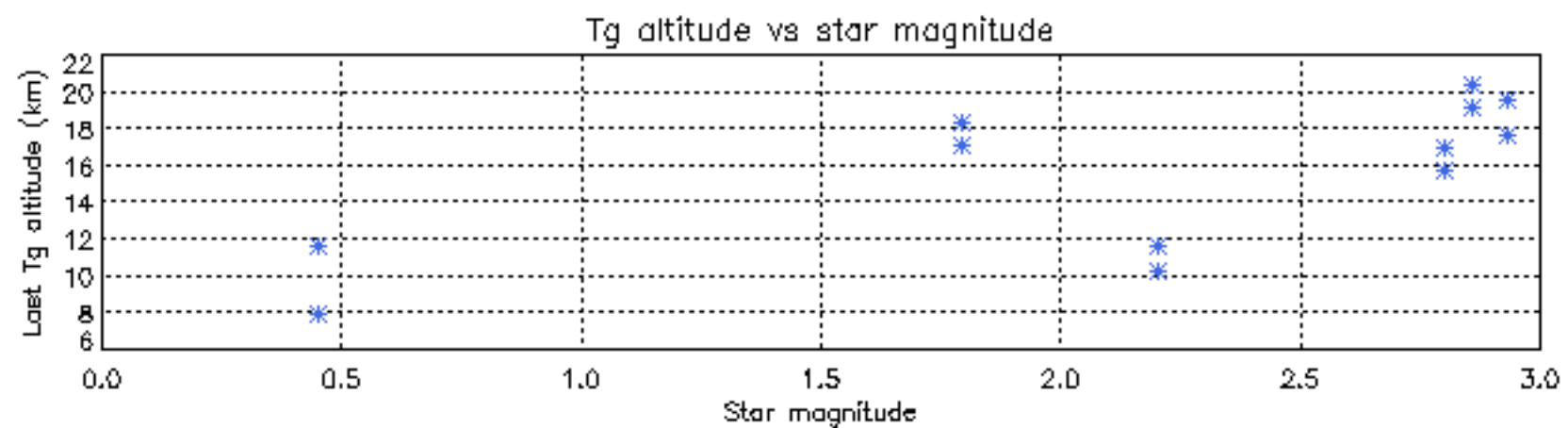
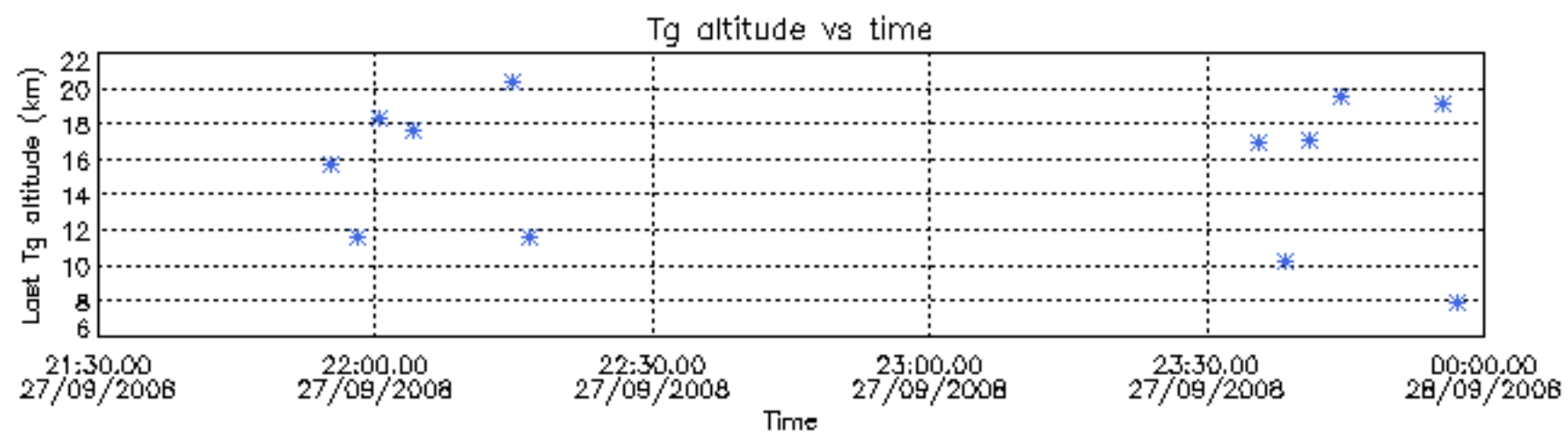
Percentage of star falling outside central band per profile



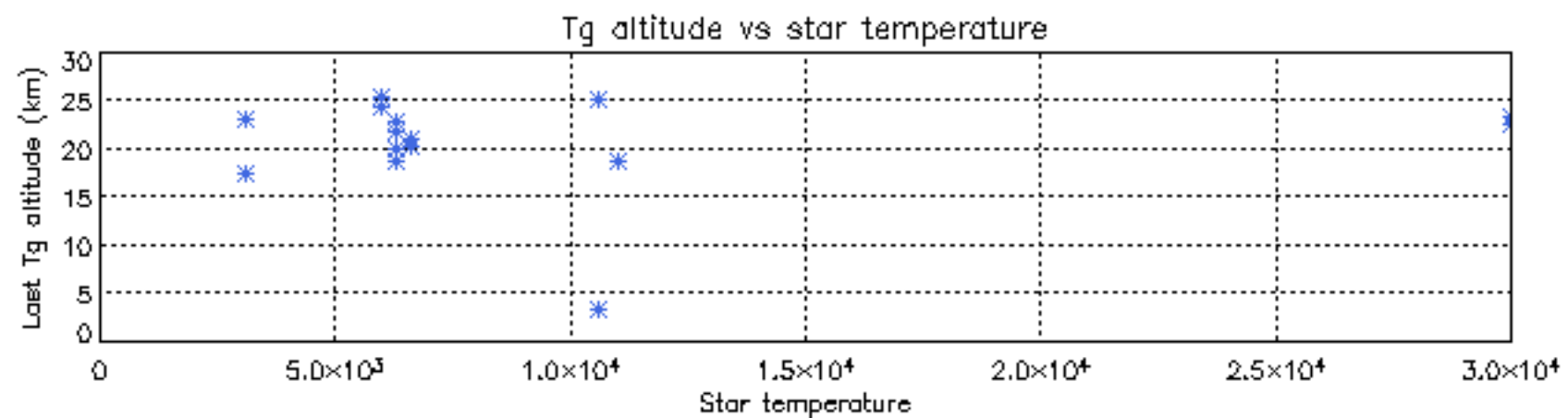
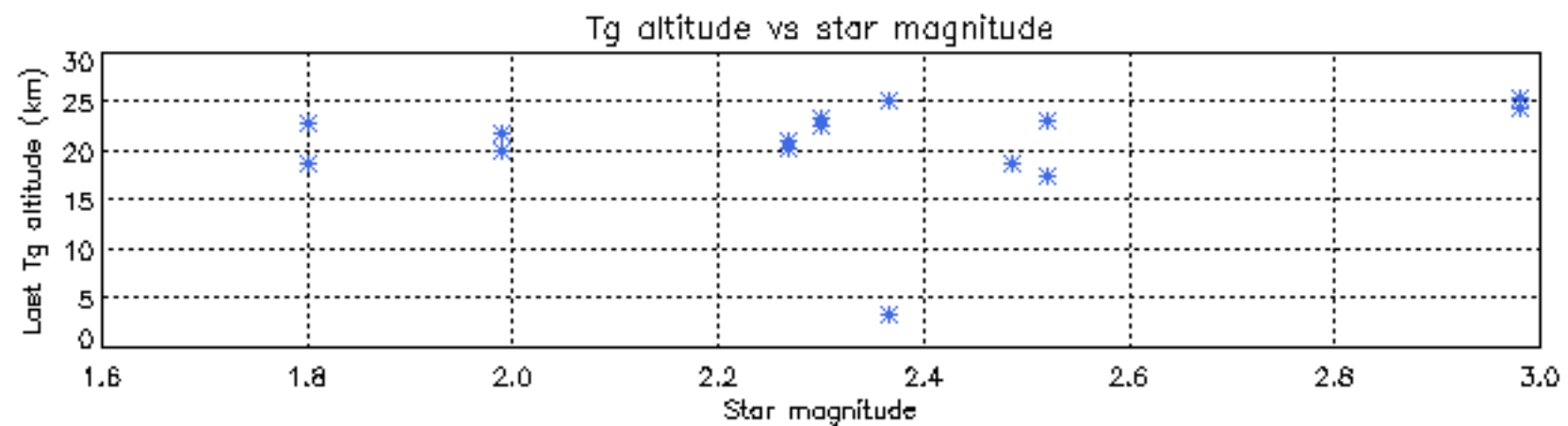
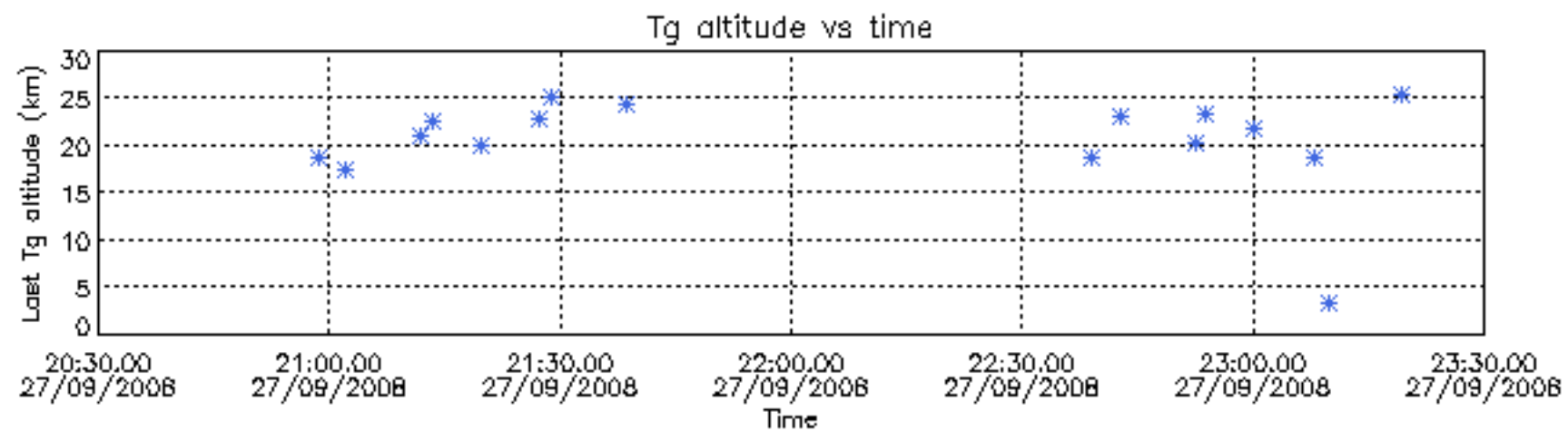
Percentage of saturation errors per profile



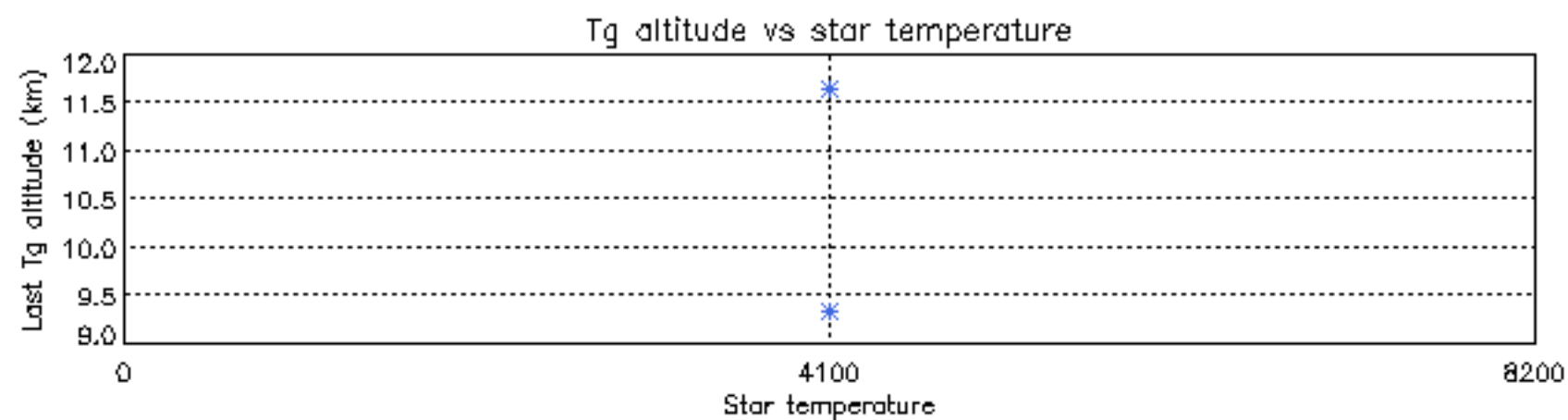
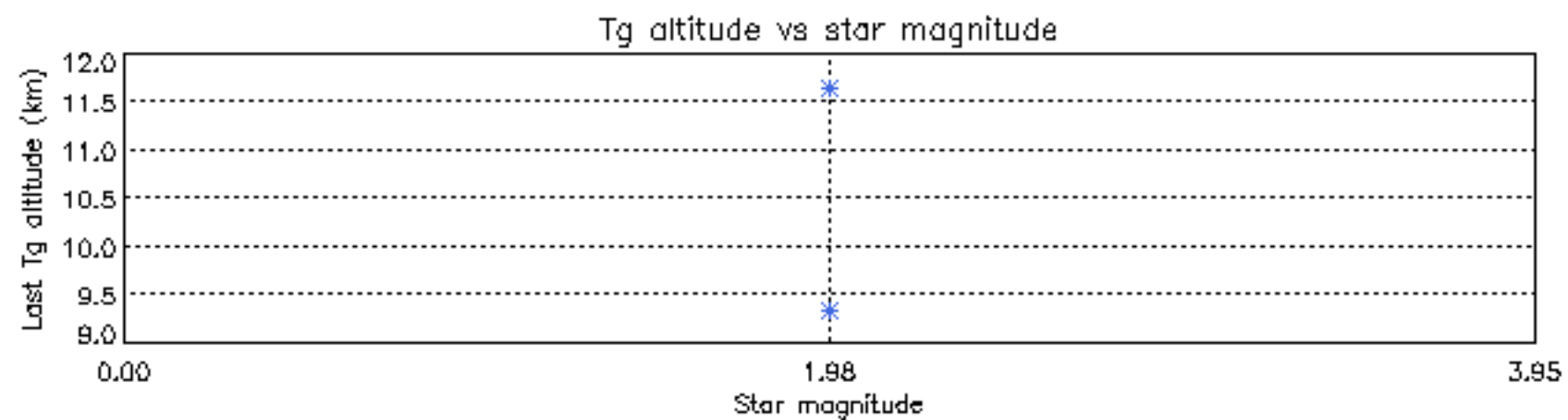
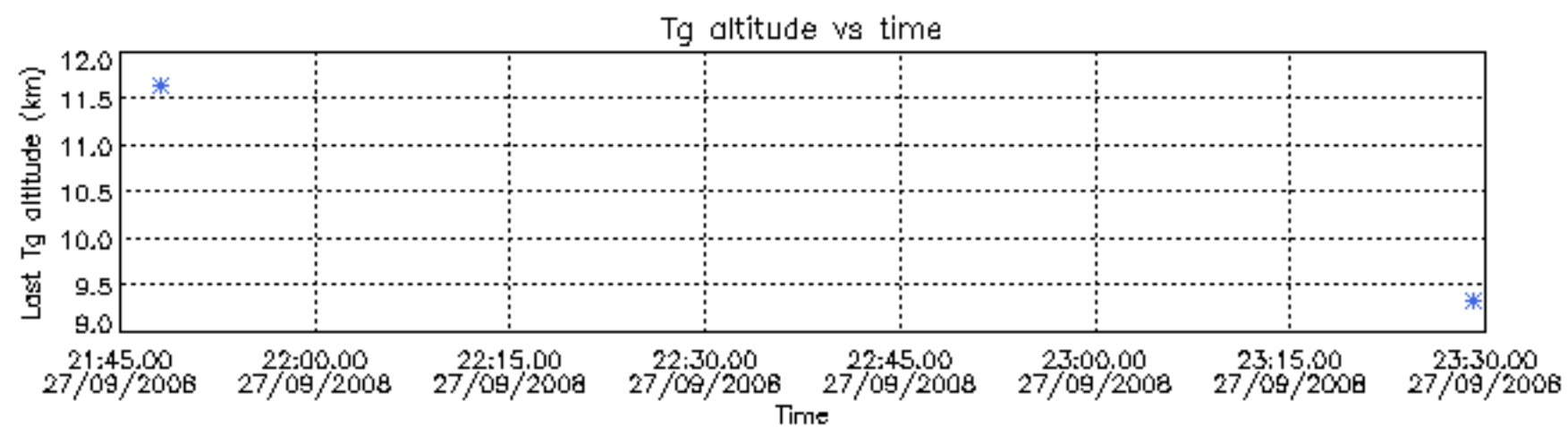
Tangent altitude at which the star is lost

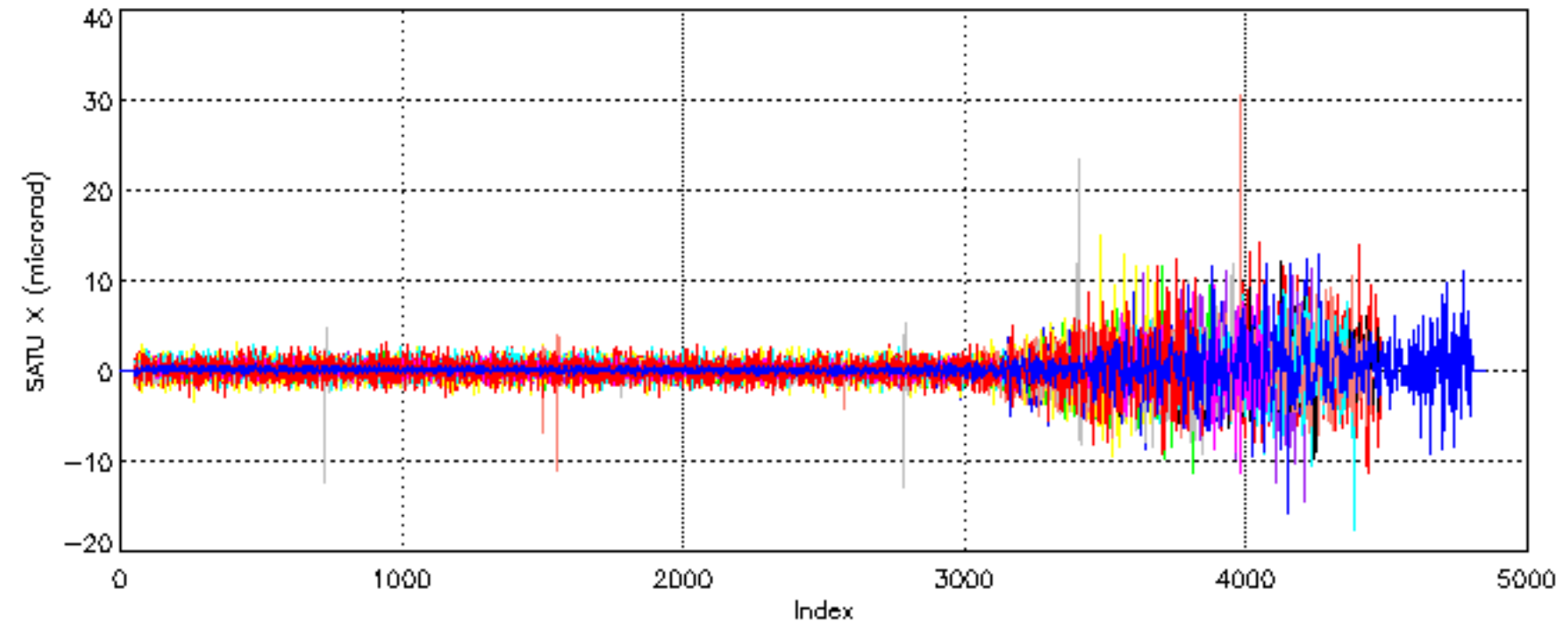


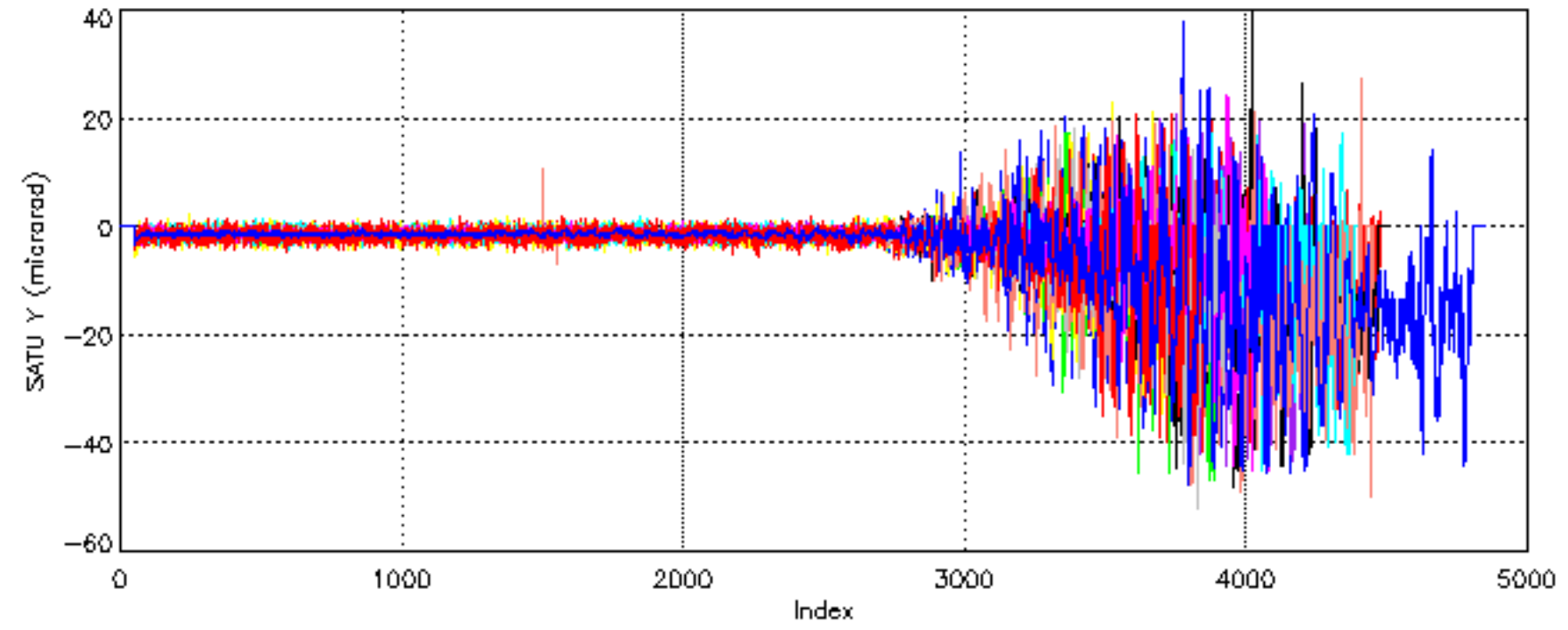
Tangent altitude at which the star is lost

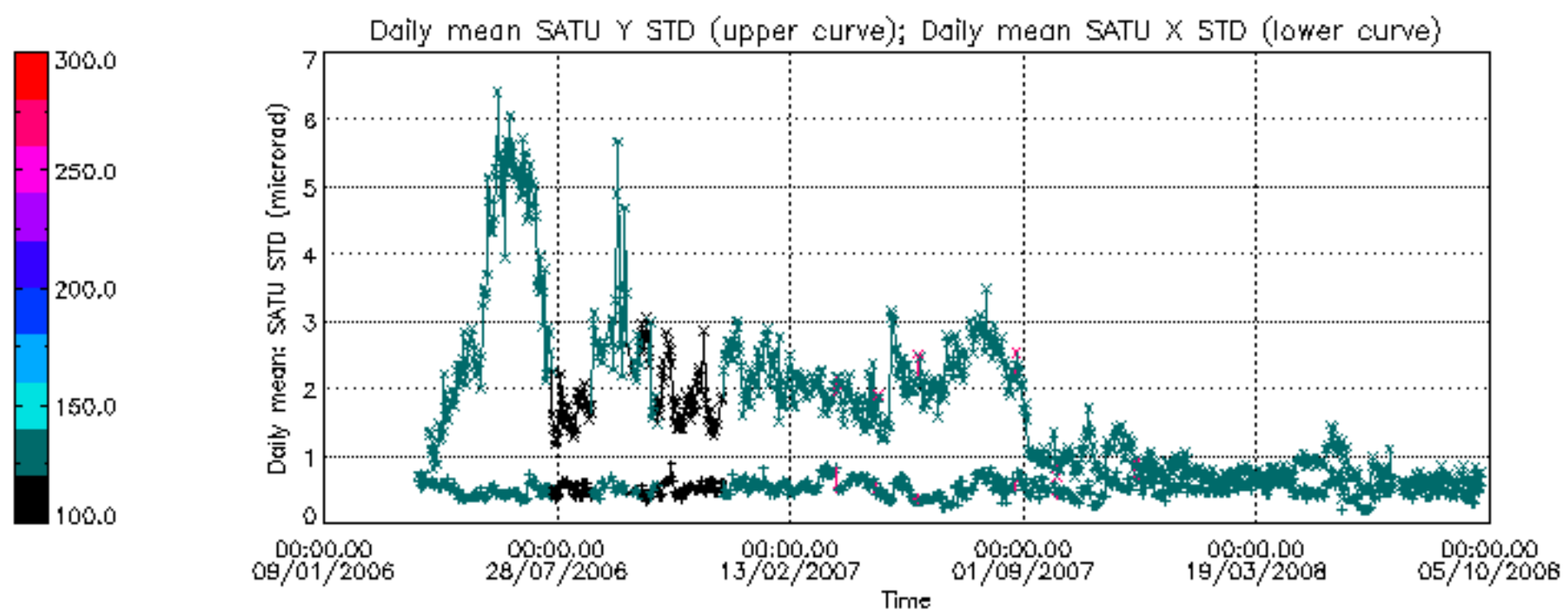


Tangent altitude at which the star is lost









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 2; -494.2; 01-SEP-2008 00:23:34; Dark ; 41.5; 23; 21Eps CMA ; 1.50; 26000;occ; 83; 0;34009
 3; -399.8; 01-SEP-2008 00:25:09; Dark ; 44.0; 117; Pi Pup ; 2.71; 3800;occ; 88; 0;34009
 4; -276.4; 01-SEP-2008 00:27:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34009
 5; -89.7; 01-SEP-2008 00:30:19; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0;34009
 6; 529.6; 01-SEP-2008 00:40:38; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;34010
 7; 606.7; 01-SEP-2008 00:41:55; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;34010
 8; 964.3; 01-SEP-2008 00:47:53; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;34010
 9; 1085.7; 01-SEP-2008 00:49:54; Dark ; 39.5; 31; Alp Gru ; 1.73; 15200;occ; 79; 0;34010
 10; 1330.7; 01-SEP-2008 00:53:59; Dark ; 47.5; 18; 24Alp PsA ; 1.17; 9700;occ; 95; 0;34010
 11; 1620.0; 01-SEP-2008 00:58:49; Dark ; 39.5; 142; 49Del Cap ; 2.85; 8900;occ; 79; 0;34010
 12; 1807.9; 01-SEP-2008 01:01:56; Bright; 52.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 105; 0;34010
 13; 1895.6; 01-SEP-2008 01:03:24; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;34010
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 15; 2488.0; 01-SEP-2008 01:13:17; Bright; 35.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 70; 0;34010
 16; 2600.9; 01-SEP-2008 01:15:09; Bright; 36.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 72; 0;34010
 17; 2678.4; 01-SEP-2008 01:16:27; Bright; 34.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 68; 0;34010
 18; 2975.3; 01-SEP-2008 01:21:24; Bright; 33.5; 89; 5Alp Cep ; 2.45; 8000;occ; 67; 0;34010
 19; 3434.5; 01-SEP-2008 01:29:03; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;34010
 20; 4453.0; 01-SEP-2008 01:46:02; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;34010
 21; 4916.3; 01-SEP-2008 01:53:45; Dark ; 39.0; 8; 10Alp CMi ; 0.40; 6500;occ; 78; 0;34010

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 6; 530.3; 01-SEP-2008 02:21:15; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;34011
 7; 607.6; 01-SEP-2008 02:22:32; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;34011
 8; 965.0; 01-SEP-2008 02:28:29; Dark ; 52.5; 84; Alp Phe ; 2.40; 4500;occ; 105; 0;34011
 9; 1085.9; 01-SEP-2008 02:30:30; Dark ; 38.5; 31; Alp Gru ; 1.73; 15200;occ; 77; 0;34011
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 11; 1620.3; 01-SEP-2008 02:39:25; Dark ; 38.5; 142; 49Del Cap ; 2.85; 8900;occ; 77; 0;34011
 12; 1808.2; 01-SEP-2008 02:42:33; Bright; 36.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 73; 0;34011
 13; 1895.4; 01-SEP-2008 02:44:00; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;34011
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 17; 2678.5; 01-SEP-2008 02:57:03; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;34011
 18; 2975.2; 01-SEP-2008 03:02:00; Bright; 34.0; 89; 5Alp Cep ; 2.45; 8000;occ; 68; 0;34011
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 7; -88.7; 01-SEP-2008 03:51:32; Dark ; 50.0; 2; Alp Car ; -0.74; 7000;occ; 100; 0;34011
 8; 531.0; 01-SEP-2008 04:01:51; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;34012
 9; 608.2; 01-SEP-2008 04:03:09; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;34012
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 11; 1086.3; 01-SEP-2008 04:11:07; Dark ; 36.5; 31; Alp Gru ; 1.73; 15200;occ; 73; 0;34012
 12; 1331.5; 01-SEP-2008 04:15:12; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;34012
 13; 1620.6; 01-SEP-2008 04:20:01; Dark ; 39.5; 142; 49Del Cap ; 2.85; 8900;occ; 79; 0;34012
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 17; 2488.3; 01-SEP-2008 04:34:29; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;34012
 18; 2601.4; 01-SEP-2008 04:36:22; Bright; 36.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 72; 0;34012
 19; 2678.6; 01-SEP-2008 04:37:39; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;34012
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8; 531.5; 01-SEP-2008 05:42:28; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;34013
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13; 1620.7; 01-SEP-2008 06:00:37; Dark ; 42.5; 142; 49Del Cap ; 2.85; 8900;occ; 85; 0;34013
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 6; 2972.0; 04-SEP-2008 09:50:05; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;34058
 7; 3433.9; 04-SEP-2008 09:57:47; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;34058
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9; 4476.3; 12-SEP-2008 22:48:12; Bright; 44.0; 24; 66Alp Gem ; 1.58; 10200;occ; 88; 0;34180
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11; 2407.5; 16-SEP-2008 23:28:27; Bright; 37.0; 93; 53Bet Peg ; 2.52; 3100;occ; 74; 0;34238
12; 2524.5; 16-SEP-2008 23:30:25; Bright; 47.0; 58; 21Alp And ; 2.07; 11000;occ; 94; 0;34238
13; 3019.4; 16-SEP-2008 23:38:39; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;34238
14; 3125.0; 16-SEP-2008 23:40:25; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;34238
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5; 34.6; 17-SEP-2008 00:29:30; Dark ; 55.5; 2; Alp Car ; -0.74; 7000;occ; 111; 0;34239
6; 647.4; 17-SEP-2008 00:39:43; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;34239
7; 733.3; 17-SEP-2008 00:41:09; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;34239
8; 1075.3; 17-SEP-2008 00:46:51; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;34239
9; 1530.1; 17-SEP-2008 00:54:26; Dark ; 58.5; 52; 16Bet Cet ; 2.04; 4500;occ; 117; 0;34239
10; 2176.5; 17-SEP-2008 01:05:12; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;34239
11; 2407.2; 17-SEP-2008 01:09:03; Bright; 41.0; 93; 53Bet Peg ; 2.52; 3100;occ; 82; 0;34239
12; 2523.8; 17-SEP-2008 01:11:00; Bright; 44.5; 58; 21Alp And ; 2.07; 11000;occ; 89; 0;34239
13; 3018.9; 17-SEP-2008 01:19:15; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;34239
14; 3124.4; 17-SEP-2008 01:21:00; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;34239
15; 4484.3; 17-SEP-2008 01:43:40; Bright; 45.0; 24; 66Alp Gem ; 1.58; 10200;occ; 90; 0;34239
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4; -111.8; 17-SEP-2008 02:07:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34239
5; 35.2; 17-SEP-2008 02:10:07; Dark ; 47.0; 2; Alp Car ; -0.74; 7000;occ; 94; 0;34240
6; 647.9; 17-SEP-2008 02:20:20; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;34240
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10; 2176.3; 17-SEP-2008 02:45:48; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;34240
11; 2407.0; 17-SEP-2008 02:49:39; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;34240
12; 2523.3; 17-SEP-2008 02:51:35; Bright; 46.5; 58; 21Alp And ; 2.07; 11000;occ; 93; 0;34240
13; 3018.6; 17-SEP-2008 02:59:50; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;34240
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4; -463.4; 17-SEP-2008 03:42:24; Dark ; 65.5; 1; 9Alp CMA ; -1.44; 11000;occ; 131; 0;34240
5; -335.5; 17-SEP-2008 03:44:32; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;34240
6; -110.8; 17-SEP-2008 03:48:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34240
7; 36.0; 17-SEP-2008 03:50:44; Dark ; 56.0; 2; Alp Car ; -0.74; 7000;occ; 112; 0;34241
8; 648.6; 17-SEP-2008 04:00:56; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;34241
9; 734.4; 17-SEP-2008 04:02:22; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;34241
10; 1076.3; 17-SEP-2008 04:08:04; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;34241
11; 1530.7; 17-SEP-2008 04:15:38; Dark ; 57.0; 52; 16Bet Cet ; 2.04; 4500;occ; 114; 0;34241
12; 2176.3; 17-SEP-2008 04:26:24; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;34241
13; 2406.9; 17-SEP-2008 04:30:15; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;34241
14; 2522.7; 17-SEP-2008 04:32:10; Bright; 45.5; 58; 21Alp And ; 2.07; 11000;occ; 91; 0;34241
15; 3018.2; 17-SEP-2008 04:40:26; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34241
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 4; -462.2; 17-SEP-2008 05:23:02; Dark ; 67.0; 1; 9Alp CMA ; -1.44; 11000;occ; 134; 0;34241
 5; -334.6; 17-SEP-2008 05:25:09; Dark ; 45.5; 23; 21Eps CMA ; 1.50; 26000;occ; 91; 0;34241
 6; -109.9; 17-SEP-2008 05:28:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34241
 7; 36.6; 17-SEP-2008 05:31:20; Dark ; 42.5; 2; Alp Car ; -0.74; 7000;occ; 85; 0;34242
 8; 649.1; 17-SEP-2008 05:41:33; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;34242
 9; 734.9; 17-SEP-2008 05:42:59; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;34242
 10; 1076.7; 17-SEP-2008 05:48:40; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;34242
 11; 1530.8; 17-SEP-2008 05:56:15; Dark ; 54.5; 52; 16Bet Cet ; 2.04; 4500;occ; 109; 0;34242
 12; 2176.2; 17-SEP-2008 06:07:00; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;34242
 13; 2406.7; 17-SEP-2008 06:10:50; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;34242
 14; 2522.1; 17-SEP-2008 06:12:46; Bright; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;34242
 15; 3017.8; 17-SEP-2008 06:21:02; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;34242
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 2; 1531.9; 17-SEP-2008 21:01:39; Dark ; 57.0; 52; 16Bet Cet ; 2.04; 4500;occ; 114; 0;34251
 3; 2174.9; 17-SEP-2008 21:12:22; Bright; 37.5; 90; 54Alp Peg ; 2.49; 11000;occ; 75; 0;34251
 4; 2404.7; 17-SEP-2008 21:16:12; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;34251
 5; 2516.2; 17-SEP-2008 21:18:04; Bright; 46.0; 58; 21Alp And ; 2.07; 11000;occ; 92; 0;34251
 6; 3013.9; 17-SEP-2008 21:26:21; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;34251
 7; 3118.1; 17-SEP-2008 21:28:05; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;34251
 8; 4486.1; 17-SEP-2008 21:50:53; Bright; 45.5; 24; 66Alp Gem ; 1.58; 10200;occ; 91; 0;34251
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 4; 43.5; 17-SEP-2008 23:58:03; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;34253
 5; 654.0; 18-SEP-2008 00:08:13; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;34253
 6; 740.2; 18-SEP-2008 00:09:39; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;34253
 7; 1080.9; 18-SEP-2008 00:15:20; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;34253
 8; 1532.2; 18-SEP-2008 00:22:51; Dark ; 56.0; 52; 16Bet Cet ; 2.04; 4500;occ; 112; 0;34253
 9; 2174.4; 18-SEP-2008 00:33:33; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;34253
 10; 2404.1; 18-SEP-2008 00:37:23; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;34253
 11; 2515.0; 18-SEP-2008 00:39:14; Bright; 45.0; 58; 21Alp And ; 2.07; 11000;occ; 90; 0;34253
 12; 3012.9; 18-SEP-2008 00:47:32; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;34253
 13; 3116.8; 18-SEP-2008 00:49:16; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;34253
 14; 4486.3; 18-SEP-2008 01:12:05; Bright; 46.5; 24; 66Alp Gem ; 1.58; 10200;occ; 93; 0;34253
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 2; 736.8; 17-SEP-2008 12:25:24; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;34246
 3; 1078.3; 17-SEP-2008 12:31:06; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;34246
 4; 1531.4; 17-SEP-2008 12:38:39; Dark ; 56.5; 52; 16Bet Cet ; 2.04; 4500;occ; 113; 0;34246

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 4; 44.1; 18-SEP-2008 01:38:39; Dark ; 45.5; 2; Alp Car ; -0.74; 7000;occ; 91; 0;34254
 5; 654.5; 18-SEP-2008 01:48:49; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;34254
 6; 740.7; 18-SEP-2008 01:50:16; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;34254
 7; 1081.3; 18-SEP-2008 01:55:56; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;34254
 8; 1532.4; 18-SEP-2008 02:03:27; Dark ; 53.0; 52; 16Bet Cet ; 2.04; 4500;occ; 106; 0;34254
 9; 2174.3; 18-SEP-2008 02:14:09; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;34254
 10; 2403.8; 18-SEP-2008 02:17:59; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;34254
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 12; 3012.5; 18-SEP-2008 02:28:07; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;34254
 13; 3116.3; 18-SEP-2008 02:29:51; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;34254

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5; -323.0; 18-SEP-2008 03:13:08; Dark ; 52.0; 23; 21Eps CMA ; 1.50; 26000;occ; 104; 0;34254
6; -97.3; 18-SEP-2008 03:16:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34254
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9; 741.3; 18-SEP-2008 03:30:52; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;34255
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12; 2174.4; 18-SEP-2008 03:54:45; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;34255
13; 2403.8; 18-SEP-2008 03:58:35; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;34255
14; 2514.0; 18-SEP-2008 04:00:25; Bright; 45.0; 58; 21Alp And ; 2.07; 11000;occ; 90; 0;34255
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16; 3116.0; 18-SEP-2008 04:10:27; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34255
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4; -446.1; 18-SEP-2008 04:51:41; Dark ; 63.0; 1; 9Alp CMA ; -1.44; 11000;occ; 126; 0;34255
5; -322.1; 18-SEP-2008 04:53:45; Dark ; 49.0; 23; 21Eps CMA ; 1.50; 26000;occ; 98; 0;34255
6; -96.3; 18-SEP-2008 04:57:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34255
7; 45.5; 18-SEP-2008 04:59:52; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;34256
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13; 2403.5; 18-SEP-2008 05:39:10; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;34256
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4; 2401.8; 18-SEP-2008 20:44:32; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;34265
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6; 3008.1; 18-SEP-2008 20:54:38; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;34265
7; 3110.5; 18-SEP-2008 20:56:21; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;34265
8; 4488.1; 18-SEP-2008 21:19:19; Bright; 45.5; 24; 66Alp Gem ; 1.58; 10200;occ; 91; 0;34265
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5; 52.0; 18-SEP-2008 21:45:58; Dark ; 53.5; 2; Alp Car ; -0.74; 7000;occ; 107; 0;34266
6; 746.5; 18-SEP-2008 21:57:33; Dark ; 48.5; 9; Alp Eri ; 0.45; 24000;occ; 97; 0;34266
7; 1085.9; 18-SEP-2008 22:03:12; Dark ; 40.5; 84; Alp Phe ; 2.40; 4500;occ; 81; 0;34266
8; 1534.1; 18-SEP-2008 22:10:40; Dark ; 55.0; 52; 16Bet Cet ; 2.04; 4500;occ; 110; 0;34266
9; 2172.9; 18-SEP-2008 22:21:19; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;34266
10; 2401.6; 18-SEP-2008 22:25:08; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;34266
11; 2507.3; 18-SEP-2008 22:26:54; Bright; 44.5; 58; 21Alp And ; 2.07; 11000;occ; 89; 0;34266
12; 3007.7; 18-SEP-2008 22:35:14; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;34266
13; 3110.1; 18-SEP-2008 22:36:56; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;34266
14; 4488.2; 18-SEP-2008 22:59:54; Bright; 46.5; 24; 66Alp Gem ; 1.58; 10200;occ; 93; 0;34266
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4; -85.5; 18-SEP-2008 23:24:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34266
5; 52.6; 18-SEP-2008 23:26:35; Dark ; 55.0; 2; Alp Car ; -0.74; 7000;occ; 110; 0;34267
6; 746.9; 18-SEP-2008 23:38:09; Dark ; 52.0; 9; Alp Eri ; 0.45; 24000;occ; 104; 0;34267
7; 1086.1; 18-SEP-2008 23:43:48; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;34267
8; 1534.3; 18-SEP-2008 23:51:17; Dark ; 55.5; 52; 16Bet Cet ; 2.04; 4500;occ; 111; 0;34267

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13; 3109.4; 19-SEP-2008 00:17:32; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;34267
14; 4488.3; 19-SEP-2008 00:40:30; Bright; 46.5; 24; 66Alp Gem ; 1.58; 10200;occ; 93; 0;34267
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3; -84.5; 19-SEP-2008 01:04:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34267
4; 53.2; 19-SEP-2008 01:07:11; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;34268
5; 747.5; 19-SEP-2008 01:18:46; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;34268
6; 1086.6; 19-SEP-2008 01:24:25; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 0;34268
7; 1534.4; 19-SEP-2008 01:31:52; Dark ; 54.5; 52; 16Bet Cet ; 2.04; 4500;occ; 109; 0;34268
8; 2172.7; 19-SEP-2008 01:42:31; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;34268
9; 2401.2; 19-SEP-2008 01:46:19; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;34268
10; 2506.2; 19-SEP-2008 01:48:04; Bright; 46.5; 58; 21Alp And ; 2.07; 11000;occ; 93; 0;34268
11; 3006.8; 19-SEP-2008 01:56:25; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34268
12; 3108.8; 19-SEP-2008 01:58:07; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;34268
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3; -562.4; 19-SEP-2008 02:37:32; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;34268
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5; -310.1; 19-SEP-2008 02:41:44; Dark ; 47.5; 23; 21Eps CMA ; 1.50; 26000;occ; 95; 0;34268
6; -83.5; 19-SEP-2008 02:45:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34268
7; 53.9; 19-SEP-2008 02:47:48; Dark ; 49.5; 2; Alp Car ; -0.74; 7000;occ; 99; 0;34269
8; 748.0; 19-SEP-2008 02:59:22; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;34269
9; 1087.0; 19-SEP-2008 03:05:01; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;34269
10; 1534.7; 19-SEP-2008 03:12:29; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;34269
11; 2172.7; 19-SEP-2008 03:23:07; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;34269
12; 2401.1; 19-SEP-2008 03:26:55; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;34269
13; 2505.7; 19-SEP-2008 03:28:40; Bright; 44.0; 58; 21Alp And ; 2.07; 11000;occ; 88; 0;34269
14; 3006.5; 19-SEP-2008 03:37:01; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;34269
15; 3108.4; 19-SEP-2008 03:38:42; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;34269
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3; -561.5; 19-SEP-2008 04:18:08; Dark ; 42.0; 132; 15Rho Pup ; 2.80; 6900;occ; 84; 0;34269
4; -429.5; 19-SEP-2008 04:20:20; Dark ; 65.5; 1; 9Alp CMA ; -1.44; 11000;occ; 131; 0;34269
5; -309.2; 19-SEP-2008 04:22:21; Dark ; 51.0; 23; 21Eps CMA ; 1.50; 26000;occ; 102; 0;34269
6; -82.5; 19-SEP-2008 04:26:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34269
7; 54.5; 19-SEP-2008 04:28:24; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;34270
8; 748.5; 19-SEP-2008 04:39:58; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;34270
9; 1087.5; 19-SEP-2008 04:45:37; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;34270
10; 1534.7; 19-SEP-2008 04:53:05; Dark ; 57.5; 52; 16Bet Cet ; 2.04; 4500;occ; 115; 0;34270
11; 2172.6; 19-SEP-2008 05:03:43; Bright; 38.0; 90; 54Alp Peg ; 2.49; 11000;occ; 76; 0;34270
12; 2400.9; 19-SEP-2008 05:07:31; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;34270
13; 2505.1; 19-SEP-2008 05:09:15; Bright; 46.0; 58; 21Alp And ; 2.07; 11000;occ; 92; 0;34270
14; 3006.1; 19-SEP-2008 05:17:36; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;34270
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3; -561.0; 19-SEP-2008 05:58:45; Dark ; 42.0; 132; 15Rho Pup ; 2.80; 6900;occ; 84; 0;34270
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5; -308.3; 19-SEP-2008 06:02:58; Dark ; 48.5; 23; 21Eps CMA ; 1.50; 26000;occ; 97; 0;34270
6; -81.5; 19-SEP-2008 06:06:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34270
7; 55.2; 19-SEP-2008 06:09:01; Dark ; 42.0; 2; Alp Car ; -0.74; 7000;occ; 84; 0;34271
8; 748.9; 19-SEP-2008 06:20:35; Dark ; 40.5; 9; Alp Eri ; 0.45; 24000;occ; 81; 0;34271
9; 1087.8; 19-SEP-2008 06:26:14; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;34271
10; 1534.8; 19-SEP-2008 06:33:41; Dark ; 52.0; 52; 16Bet Cet ; 2.04; 4500;occ; 104; 0;34271
11; 2172.4; 19-SEP-2008 06:44:18; Bright; 38.0; 90; 54Alp Peg ; 2.49; 11000;occ; 76; 0;34271
12; 2400.7; 19-SEP-2008 06:48:07; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;34271
13; 2504.6; 19-SEP-2008 06:49:51; Bright; 43.0; 58; 21Alp And ; 2.07; 11000;occ; 86; 0;34271
14; 3005.7; 19-SEP-2008 06:58:12; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;34271
15; 3107.4; 19-SEP-2008 06:59:53; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;34271

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 3; 1091.0; 19-SEP-2008 21:31:40; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;34280
 4; 1536.0; 19-SEP-2008 21:39:05; Dark ; 55.0; 52; 16Bet Cet ; 2.04; 4500;occ; 110; 0;34280
 5; 2171.3; 19-SEP-2008 21:49:41; Bright; 37.5; 90; 54Alp Peg ; 2.49; 11000;occ; 75; 0;34280
 6; 2398.9; 19-SEP-2008 21:53:28; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;34280
 7; 2499.4; 19-SEP-2008 21:55:09; Bright; 44.5; 58; 21Alp And ; 2.07; 11000;occ; 89; 0;34280
 8; 3002.0; 19-SEP-2008 22:03:31; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;34280
 9; 3102.5; 19-SEP-2008 22:05:12; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;34280
 10; 4490.0; 19-SEP-2008 22:28:19; Bright; 48.5; 24; 66Alp Gem ; 1.58; 10200;occ; 97; 0;34280
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 3; -299.1; 19-SEP-2008 22:49:06; Dark ; 47.5; 23; 21Eps CMA ; 1.50; 26000;occ; 95; 0;34280
 4; -71.5; 19-SEP-2008 22:52:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34280
 5; 61.7; 19-SEP-2008 22:55:07; Dark ; 56.5; 2; Alp Car ; -0.74; 7000;occ; 113; 0;34281
 6; 753.5; 19-SEP-2008 23:06:39; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;34281
 7; 1091.3; 19-SEP-2008 23:12:17; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 0;34281
 8; 1536.2; 19-SEP-2008 23:19:42; Dark ; 53.0; 52; 16Bet Cet ; 2.04; 4500;occ; 106; 0;34281
 9; 2171.1; 19-SEP-2008 23:30:16; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;34281
 10; 2398.8; 19-SEP-2008 23:34:04; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;34281
 11; 2498.7; 19-SEP-2008 23:35:44; Bright; 44.5; 58; 21Alp And ; 2.07; 11000;occ; 89; 0;34281
 12; 3001.7; 19-SEP-2008 23:44:07; Bright; 47.5; 74; 11Bet Cas ; 2.27; 6600;occ; 95; 0;34281
 13; 3101.8; 19-SEP-2008 23:45:47; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;34281
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 3; -298.1; 20-SEP-2008 00:29:43; Dark ; 47.5; 23; 21Eps CMA ; 1.50; 26000;occ; 95; 0;34281
 4; -70.5; 20-SEP-2008 00:33:31; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;34281
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 6; 753.9; 20-SEP-2008 00:47:15; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;34282
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 12; 3001.2; 20-SEP-2008 01:24:42; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;34282
 13; 3101.4; 20-SEP-2008 01:26:23; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;34282
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 3; -297.2; 20-SEP-2008 02:10:20; Dark ; 52.0; 23; 21Eps CMA ; 1.50; 26000;occ; 104; 0;34282
 4; -69.5; 20-SEP-2008 02:14:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34282
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 9; 2171.1; 20-SEP-2008 02:51:28; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;34283
 10; 2398.4; 20-SEP-2008 02:55:15; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;34283
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 12; 3000.9; 20-SEP-2008 03:05:18; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;34283
 13; 3101.0; 20-SEP-2008 03:06:58; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;34283

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 3; -553.7; 20-SEP-2008 03:46:39; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;34283
 4; -412.2; 20-SEP-2008 03:49:01; Dark ; 63.0; 1; 9Alp CMA ; -1.44; 11000;occ; 126; 0;34283
 5; -296.1; 20-SEP-2008 03:50:57; Dark ; 48.5; 23; 21Eps CMA ; 1.50; 26000;occ; 97; 0;34283
 6; -68.5; 20-SEP-2008 03:54:45; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;34283
 7; 63.8; 20-SEP-2008 03:56:57; Dark ; 52.0; 2; Alp Car ; -0.74; 7000;occ; 104; 0;34284
 8; 755.1; 20-SEP-2008 04:08:28; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;34284
 9; 1092.6; 20-SEP-2008 04:14:06; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;34284


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 5; -295.3; 20-SEP-2008 05:31:34; Dark ; 51.5; 23; 21Eps CMA ; 1.50; 26000;occ; 103; 0;34284
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 7; 64.4; 20-SEP-2008 05:37:33; Dark ; 56.0; 2; Alp Car ; -0.74; 7000;occ; 112; 0;34285
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 7; 3095.5; 20-SEP-2008 21:33:28; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;34294
 8; 4492.0; 20-SEP-2008 21:56:45; Bright; 47.0; 24; 66Alp Gem ; 1.58; 10200;occ; 94; 0;34294
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13; 3094.9; 20-SEP-2008 23:14:03; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;34295
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6; 2991.3; 21-SEP-2008 21:00:07; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;34308
7; 3088.5; 21-SEP-2008 21:01:44; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;34308
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5; -223.0; 22-SEP-2008 07:50:44; Dark ; 47.5; 117; Pi Pup ; 2.71; 3800;occ; 95; 0;34314
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4; 2479.8; 22-SEP-2008 13:37:35; Bright; 44.0; 58; 21Alp And ; 2.07; 11000;occ; 88; 0;34318
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4; 3070.6; 24-SEP-2008 11:03:36; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;34345
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3; 2166.9; 24-SEP-2008 19:11:32; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;34350
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6; 3068.3; 24-SEP-2008 19:26:33; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;34350
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9; 5523.8; 24-SEP-2008 20:07:29; Dark ; 41.5; 132; 15Rho Pup ; 2.80; 6900;occ; 83; 0;34350
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12; 5934.6; 24-SEP-2008 20:14:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34350
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4; 28.4; 25-SEP-2008 01:18:17; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;34354
5; 786.5; 25-SEP-2008 01:30:55; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;34354
6; 1116.7; 25-SEP-2008 01:36:25; Dark ; 40.5; 84; Alp Phe ; 2.40; 4500;occ; 81; 0;34354
7; 1546.4; 25-SEP-2008 01:43:35; Dark ; 50.0; 52; 16Bet Cet ; 2.04; 4500;occ; 100; 0;34354
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9; 2389.4; 25-SEP-2008 01:57:38; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;34354
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11; 3066.4; 25-SEP-2008 02:08:55; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;34354
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5; -98.7; 25-SEP-2008 02:56:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34354
6; 29.1; 25-SEP-2008 02:58:53; Dark ; 49.0; 161; Tau Pup ; 2.93; 4500;occ; 98; 0;34355
7; 786.9; 25-SEP-2008 03:11:31; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;34355
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6; -98.0; 25-SEP-2008 04:37:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34355
7; 29.8; 25-SEP-2008 04:39:30; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;34356
8; 787.3; 25-SEP-2008 04:52:08; Dark ; 41.5; 9; Alp Eri ; 0.45; 24000;occ; 83; 0;34356
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13; 2974.7; 25-SEP-2008 05:28:35; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34356
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5; -221.2; 25-SEP-2008 06:15:55; Dark ; 54.0; 23; 21Eps CMA ; 1.50; 26000;occ; 108; 0;34356
6; -97.4; 25-SEP-2008 06:17:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34356
7; 30.5; 25-SEP-2008 06:20:07; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;34357
8; 787.8; 25-SEP-2008 06:32:44; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;34357
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 3; 2166.4; 25-SEP-2008 20:20:30; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;34365
 4; 2388.5; 25-SEP-2008 20:24:12; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;34365
 5; 2971.7; 25-SEP-2008 20:33:56; Bright; 57.0; 74; 11Bet Cas ; 2.27; 6600;occ; 114; 0;34365
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 5; -91.3; 25-SEP-2008 21:23:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34365
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 7; 31.2; 25-SEP-2008 08:00:43; Dark ; 41.0; 161; Tau Pup ; 2.93; 4500;occ; 82; 0;34358
 8; 788.2; 25-SEP-2008 08:13:21; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;34358
 9; 1118.1; 25-SEP-2008 08:18:50; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;34358
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 4; 3064.7; 25-SEP-2008 08:51:17; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34358
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5; 3063.0; 25-SEP-2008 15:33:39; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;34362

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9; 2970.7; 26-SEP-2008 01:35:42; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34368
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13; 7159.1; 26-SEP-2008 11:08:30; Dark ; 39.5; 84; Alp Phe ; 2.40; 4500;occ; 79; 0;34373
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2; 2388.0; 26-SEP-2008 11:29:35; Bright; 37.0; 93; 53Bet Peg ; 2.52; 3100;occ; 74; 0;34374
3; 2968.8; 26-SEP-2008 11:39:16; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;34374
4; 3057.6; 26-SEP-2008 11:40:45; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;34374

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6; 5540.4; 26-SEP-2008 12:22:08; Dark ; 42.0; 132; 15Rho Pup ; 2.80; 6900;occ; 84; 0;34374
7; 5742.9; 26-SEP-2008 12:25:30; Dark ; 47.0; 88; 31Eta CMA ; 2.45; 20000;occ; 94; 0;34374
8; 5835.0; 26-SEP-2008 12:27:02; Dark ; 50.5; 23; 21Eps CMA ; 1.50; 26000;occ; 101; 0;34374
9; 5950.8; 26-SEP-2008 12:28:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34374
10; 6078.9; 26-SEP-2008 12:31:06; Dark ; 41.0; 161; Tau Pup ; 2.93; 4500;occ; 82; 0;34374
11; 6904.7; 26-SEP-2008 12:44:52; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;34374
12; 7159.4; 26-SEP-2008 12:49:07; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;34374
13; 7585.3; 26-SEP-2008 12:56:12; Dark ; 50.0; 52; 16Bet Cet ; 2.04; 4500;occ; 100; 0;34374
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3; 2968.6; 26-SEP-2008 13:19:52; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34375
4; 3057.2; 26-SEP-2008 13:21:20; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34375
5; 4586.1; 26-SEP-2008 13:46:49; Bright; 53.5; 17; 78Bet Gem ; 1.16; 4500;occ; 107; 0;34375
6; 5541.2; 26-SEP-2008 14:02:44; Dark ; 43.5; 132; 15Rho Pup ; 2.80; 6900;occ; 87; 0;34375
7; 5743.8; 26-SEP-2008 14:06:07; Dark ; 45.5; 88; 31Eta CMA ; 2.45; 20000;occ; 91; 0;34375
8; 5836.1; 26-SEP-2008 14:07:39; Dark ; 50.5; 23; 21Eps CMA ; 1.50; 26000;occ; 101; 0;34375
9; 5951.5; 26-SEP-2008 14:09:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34375
10; 6079.6; 26-SEP-2008 14:11:43; Dark ; 40.5; 161; Tau Pup ; 2.93; 4500;occ; 81; 0;34375
11; 6905.6; 26-SEP-2008 14:25:29; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;34375
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3; 2387.9; 26-SEP-2008 14:50:47; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;34376
4; 2968.3; 26-SEP-2008 15:00:27; Bright; 36.0; 74; 11Bet Cas ; 2.27; 6600;occ; 72; 0;34376
5; 3056.8; 26-SEP-2008 15:01:56; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34376
6; 4586.4; 26-SEP-2008 15:27:25; Bright; 52.5; 17; 78Bet Gem ; 1.16; 4500;occ; 105; 0;34376
7; 5541.9; 26-SEP-2008 15:43:21; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;34376
8; 5744.7; 26-SEP-2008 15:46:44; Dark ; 46.0; 88; 31Eta CMA ; 2.45; 20000;occ; 92; 0;34376
9; 5837.3; 26-SEP-2008 15:48:16; Dark ; 50.5; 23; 21Eps CMA ; 1.50; 26000;occ; 101; 0;34376
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11; 6080.4; 26-SEP-2008 15:52:19; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;34376
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3; 2166.4; 26-SEP-2008 16:27:41; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;34377
4; 2387.8; 26-SEP-2008 16:31:23; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;34377
5; 2968.0; 26-SEP-2008 16:41:03; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34377
6; 3056.3; 26-SEP-2008 16:42:31; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;34377
7; 4586.5; 26-SEP-2008 17:08:01; Bright; 53.5; 17; 78Bet Gem ; 1.16; 4500;occ; 107; 0;34377
8; 5542.6; 26-SEP-2008 17:23:58; Dark ; 47.0; 132; 15Rho Pup ; 2.80; 6900;occ; 94; 0;34377
9; 5745.7; 26-SEP-2008 17:27:21; Dark ; 44.5; 88; 31Eta CMA ; 2.45; 20000;occ; 89; 0;34377
10; 5838.5; 26-SEP-2008 17:28:53; Dark ; 51.0; 23; 21Eps CMA ; 1.50; 26000;occ; 102; 0;34377
11; 5953.0; 26-SEP-2008 17:30:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34377
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3; 2166.4; 26-SEP-2008 18:08:17; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;34378
4; 2387.7; 26-SEP-2008 18:11:59; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;34378
5; 2967.6; 26-SEP-2008 18:21:39; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34378
6; 3055.8; 26-SEP-2008 18:23:07; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34378
7; 4586.8; 26-SEP-2008 18:48:38; Bright; 55.0; 17; 78Bet Gem ; 1.16; 4500;occ; 110; 0;34378
8; 5543.4; 26-SEP-2008 19:04:34; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;34378
9; 5746.6; 26-SEP-2008 19:07:58; Dark ; 45.0; 88; 31Eta CMA ; 2.45; 20000;occ; 90; 0;34378
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3; 2166.5; 27-SEP-2008 20:57:52; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;34394
4; 2386.9; 27-SEP-2008 21:01:33; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;34394
5; 2962.8; 27-SEP-2008 21:11:09; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;34394

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7; 3429.1; 27-SEP-2008 21:18:55; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;34394
8; 3900.5; 27-SEP-2008 21:26:46; Bright; 34.5; 36; 50Alp UMa ; 1.80; 6300;occ; 69; 0;34394
9; 3990.0; 27-SEP-2008 21:28:16; Bright; 33.5; 82; 48Bet UMa ; 2.37; 10600;occ; 67; 0;34394
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3; 1069.3; 27-SEP-2008 07:14:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
4; 1586.4; 27-SEP-2008 07:23:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
5; 1692.1; 27-SEP-2008 07:25:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
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3; 1948.4; 27-SEP-2008 07:29:27; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
4; 2053.1; 27-SEP-2008 07:31:11; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
5; 2361.5; 27-SEP-2008 07:36:20; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
6; 2630.7; 27-SEP-2008 07:40:49; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
7; 2869.5; 27-SEP-2008 07:44:48; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
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9; 3278.0; 27-SEP-2008 07:51:36; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
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13; 4278.6; 27-SEP-2008 08:08:17; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
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19; 6306.2; 27-SEP-2008 08:42:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
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21; 7105.6; 27-SEP-2008 08:55:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
22; 7622.4; 27-SEP-2008 09:04:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
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3; 1947.4; 27-SEP-2008 09:10:02; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
4; 2053.1; 27-SEP-2008 09:11:47; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
5; 2361.5; 27-SEP-2008 09:16:56; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
6; 2630.3; 27-SEP-2008 09:21:25; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
7; 2870.4; 27-SEP-2008 09:25:25; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
8; 3107.3; 27-SEP-2008 09:29:22; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
9; 3277.6; 27-SEP-2008 09:32:12; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
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11; 3531.8; 27-SEP-2008 09:36:26; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
12; 4012.0; 27-SEP-2008 09:44:26; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
13; 4278.7; 27-SEP-2008 09:48:53; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
14; 4732.6; 27-SEP-2008 09:56:27; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
15; 5000.2; 27-SEP-2008 10:00:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
16; 5230.7; 27-SEP-2008 10:04:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
17; 5500.5; 27-SEP-2008 10:09:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
18; 5813.8; 27-SEP-2008 10:14:28; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;34387
19; 6784.3; 27-SEP-2008 10:30:39; Dark ; 105.0; 9; Alp Eri ; 0.45; 24000;occ; 210; 0;34387
20; 7110.1; 27-SEP-2008 10:36:04; Dark ; 94.5; 84; Alp Phe ; 2.40; 4500;occ; 189; 0;34387
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2; 2336.7; 27-SEP-2008 10:57:07; Bright; 88.5; 93; 53Bet Peg ; 2.52; 3100;occ; 177; 0;34388
3; 2909.5; 27-SEP-2008 11:06:40; Bright; 98.5; 68; 18Alp Cas ; 2.22; 4500;occ; 197; 0;34388
4; 3377.4; 27-SEP-2008 11:14:28; Bright; 88.5; 49; 1Alp UMi ; 1.99; 6300;occ; 177; 0;34388
5; 3849.2; 27-SEP-2008 11:22:19; Bright; 84.0; 36; 50Alp UMa ; 1.80; 6300;occ; 168; 0;34388
6; 4527.3; 27-SEP-2008 11:33:38; Bright; 85.5; 166; 17Eps Leo ; 2.98; 6000;occ; 171; 0;34388
7; 5092.7; 27-SEP-2008 11:43:03; Dark ; 99.0; 48; 30Alp Hya ; 1.98; 4100;occ; 198; 0;34388
8; 5492.8; 27-SEP-2008 11:49:43; Dark ; 100.0; 132; 15Rho Pup ; 2.80; 6900;occ; 200; 0;34388
9; 5674.5; 27-SEP-2008 11:52:45; Dark ; 97.5; 65; Lam Vel ; 2.20; 4400;occ; 195; 0;34388

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11; 5960.5; 27-SEP-2008 11:57:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34388
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13; 7110.4; 27-SEP-2008 12:16:41; Dark ; 96.0; 84; Alp Phe ; 2.40; 4500;occ; 192; 0;34388
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 4; 3377.4; 27-SEP-2008 12:55:03; Bright; 88.0; 49; 1Alp UMi ; 1.99; 6300;occ; 176; 0;34389
 5; 3849.3; 27-SEP-2008 13:02:55; Bright; 87.0; 36; 50Alp UMa ; 1.80; 6300;occ; 174; 0;34389
 6; 4527.4; 27-SEP-2008 13:14:13; Bright; 85.0; 166; 17Eps Leo ; 2.98; 6000;occ; 170; 0;34389
 7; 5092.9; 27-SEP-2008 13:23:39; Dark ; 101.0; 48; 30Alp Hya ; 1.98; 4100;occ; 202; 0;34389
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 9; 5674.8; 27-SEP-2008 13:33:21; Dark ; 93.5; 65; Lam Vel ; 2.20; 4400;occ; 187; 0;34389
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 16; 6112.1; 29-SEP-2008 17:39:12; Dark ; 48.0; 161; Tau Pup ; 2.93; 4500;occ; 96; 0;34420
 17; 6196.2; 29-SEP-2008 17:40:36; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;34420
 18; 6762.6; 29-SEP-2008 17:50:03; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;34420
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 8; 3903.9; 29-SEP-2008 18:43:00; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;34421
 9; 3993.8; 29-SEP-2008 18:44:30; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;34421
 10; 4585.1; 29-SEP-2008 18:54:21; Bright; 34.5; 166; 17Eps Leo ; 2.98; 6000;occ; 69; 0;34421
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 6; 163.8; 30-SEP-2008 02:03:39; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;34426
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 8; 816.1; 30-SEP-2008 02:14:32; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;34426
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6; 3031.3; 30-SEP-2008 21:18:02; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34437
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14; 3030.9; 30-SEP-2008 22:58:38; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;34438
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