

GOMOS Daily Report 15-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	19SEP2008 08:09:55
Data source version	GOMOS/5.00
Start time of products	15SEP2008 00:02:07
Stop time of products	15SEP2008 21:22:10
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

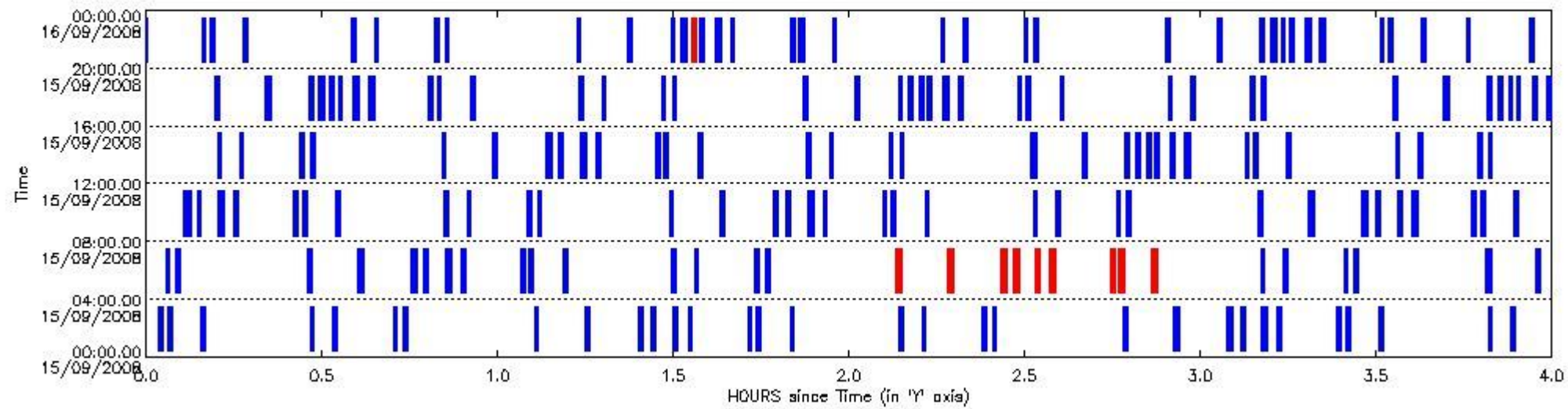
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

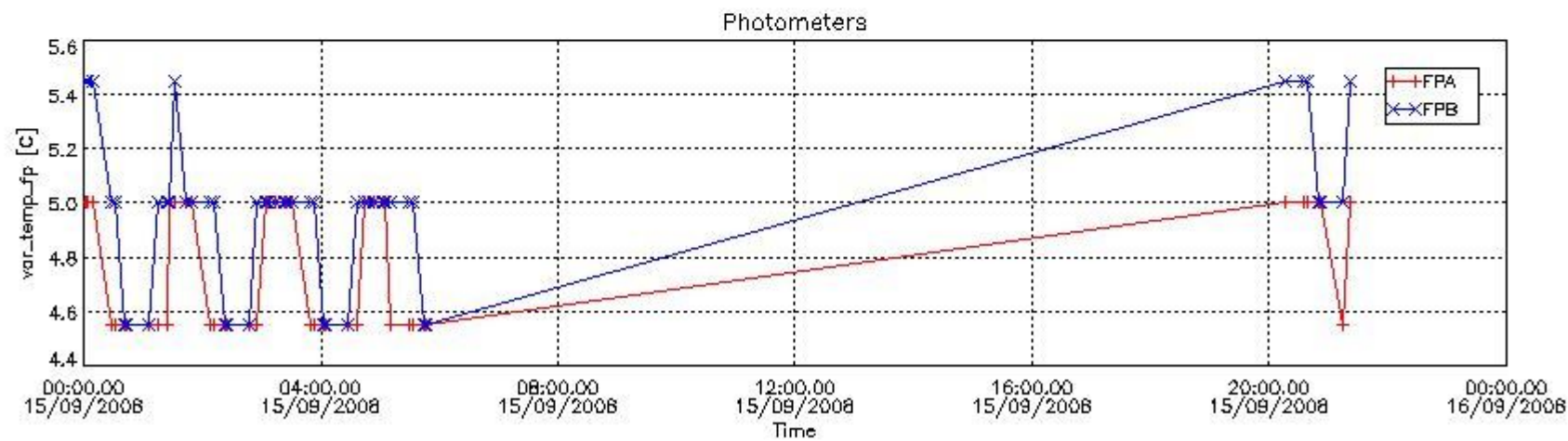
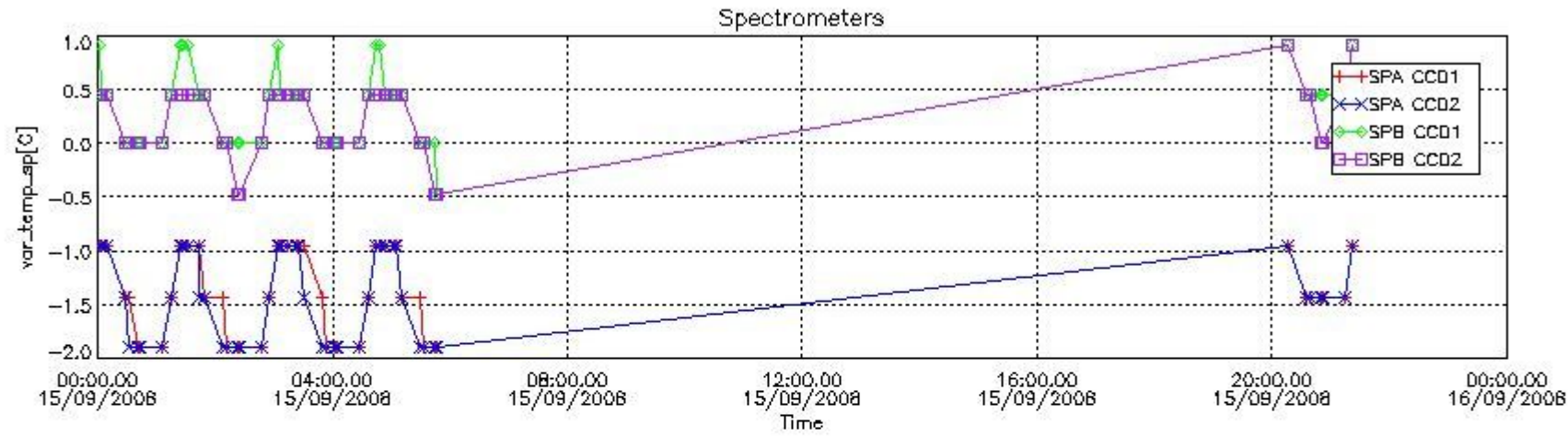
UTC start time	Star name	Star ID	Orbit
15-SEP-2008 06:08:04	66AlpGem	24	34213
15-SEP-2008 06:16:42	10AlpCMi	8	34213
15-SEP-2008 06:25:46	9AlpCMa	1	34213
15-SEP-2008 06:28:00	21EpsCMa	23	34213
15-SEP-2008 06:31:43	DSA1059	0	34213
15-SEP-2008 06:34:18	AlpCar	2	34214
15-SEP-2008 06:44:34	AlpHyi	143	34214
15-SEP-2008 06:46:00	AlpEri	9	34214
15-SEP-2008 06:51:44	AlpPhe	84	34214
15-SEP-2008 21:33:14	2BetCMa	47	34222

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_1PNPDE20080915_000207_000000392072_00088_34210_2690.N1	15-SEP-2008 00:02:07	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	34210	No

2	GOM_TRA_1PNPDE20080915_000333_00000522072_00088_34210_2691.N1	15-SEP-2008 00:03:33	Dark	51.500	9	Alp Eri	0.45300	24000.	103	34210	No
3	GOM_TRA_1PNPDE20080915_000917_000000432072_00088_34210_2692.N1	15-SEP-2008 00:09:17	Straylight	43.000	84	Alp Phe	2.3970	4500.0	86	34210	No
4	GOM_TRA_1PNPDE20080915_002755_000000412072_00088_34210_2693.N1	15-SEP-2008 00:27:55	Bright	40.500	90	54Alp Peg	2.4870	11000.	81	34210	No
5	GOM_TRA_1PNPDE20080915_003148_000000392072_00088_34210_2694.N1	15-SEP-2008 00:31:48	Bright	39.000	93	53Bet Peg	2.5200	3100.0	78	34210	No
6	GOM_TRA_1PNPDE20080915_004206_000000422072_00088_34210_2695.N1	15-SEP-2008 00:42:06	Bright	41.500	74	11Bet Cas	2.2680	6600.0	83	34210	No
7	GOM_TRA_1PNPDE20080915_004355_000000432072_00088_34210_2696.N1	15-SEP-2008 00:43:55	Bright	43.000	76	27Gam Cas	2.3000	30000.	86	34210	No
8	GOM_TRA_1PNPDE20080915_010614_000000452072_00088_34210_2697.N1	15-SEP-2008 01:06:14	Bright	44.500	24	66Alp Gem	1.5800	10200.	89	34210	No
9	GOM_TRA_1PNPDE20080915_011452_000000542072_00088_34210_2698.N1	15-SEP-2008 01:14:52	Twilight	54.000	8	10Alp CMi	0.40000	6500.0	108	34210	No
10	GOM_TRA_1PNPDE20080915_012354_000000572072_00088_34210_2831.N1	15-SEP-2008 01:23:54	Dark	56.500	1	9Alp CMa	-1.4400	11000.	113	34210	No
11	GOM_TRA_1PNPDE20080915_012609_000000482072_00088_34210_2832.N1	15-SEP-2008 01:26:09	Dark	48.000	23	21Eps CMa	1.5020	26000.	96	34210	No
12	GOM_TRA_1PNPDE20080915_013227_000000452072_00089_34211_2833.N1	15-SEP-2008 01:32:27	Dark	44.500	2	Alp Car	-0.73600	7000.0	89	34211	No
13	GOM_TRA_1PNPDE20080915_014244_000000402072_00089_34211_2834.N1	15-SEP-2008 01:42:44	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	34211	No
14	GOM_TRA_1PNPDE20080915_014409_000000472072_00089_34211_2835.N1	15-SEP-2008 01:44:09	Dark	46.500	9	Alp Eri	0.45300	24000.	93	34211	No
15	GOM_TRA_1PNPDE20080915_014954_000000442072_00089_34211_2836.N1	15-SEP-2008 01:49:54	Straylight	43.500	84	Alp Phe	2.3970	4500.0	87	34211	No
16	GOM_TRA_1PNPDE20080915_020831_000000392072_00089_34211_2837.N1	15-SEP-2008 02:08:31	Bright	39.000	90	54Alp Peg	2.4870	11000.	78	34211	No
17	GOM_TRA_1PNPDE20080915_021224_000000412072_00089_34211_2838.N1	15-SEP-2008 02:12:24	Bright	40.500	93	53Bet Peg	2.5200	3100.0	81	34211	No
18	GOM_TRA_1PNPDE20080915_022241_000000432072_00089_34211_2839.N1	15-SEP-2008 02:22:41	Bright	42.500	74	11Bet Cas	2.2680	6600.0	85	34211	No
19	GOM_TRA_1PNPDE20080915_022430_000000422072_00089_34211_2840.N1	15-SEP-2008 02:24:30	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	34211	No
20	GOM_TRA_1PNPDE20080915_024650_000000492072_00089_34211_2996.N1	15-SEP-2008 02:46:50	Bright	48.500	24	66Alp Gem	1.5800	10200.	97	34211	No
21	GOM_TRA_1PNPDE20080915_025528_000000542072_00089_34211_2997.N1	15-SEP-2008 02:55:28	Twilight	54.000	8	10Alp CMi	0.40000	6500.0	108	34211	No
22	GOM_TRA_1PNPDE20080915_030431_000000652072_00089_34211_2998.N1	15-SEP-2008 03:04:31	Dark	64.500	1	9Alp CMa	-1.4400	11000.	129	34211	No
23	GOM_TRA_1PNPDE20080915_030645_000000502072_00089_34211_2999.N1	15-SEP-2008 03:06:45	Dark	49.500	23	21Eps CMa	1.5020	26000.	99	34211	No
24	GOM_TRA_1PNPDE20080915_031304_000000542072_00090_34212_3000.N1	15-SEP-2008 03:13:04	Dark	53.500	2	Alp Car	-0.73600	7000.0	107	34212	No
25	GOM_TRA_1PNPDE20080915_032320_000000402072_00090_34212_3001.N1	15-SEP-2008 03:23:20	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	34212	No
26	GOM_TRA_1PNPDE20080915_032445_000000502072_00090_34212_3002.N1	15-SEP-2008 03:24:45	Dark	49.500	9	Alp Eri	0.45300	24000.	99	34212	No
27	GOM_TRA_1PNPDE20080915_033030_000000432072_00090_34212_3003.N1	15-SEP-2008 03:30:30	Straylight	42.500	84	Alp Phe	2.3970	4500.0	85	34212	No
28	GOM_TRA_1PNPDE20080915_034907_000000402072_00090_34212_3004.N1	15-SEP-2008 03:49:07	Bright	40.000	90	54Alp Peg	2.4870	11000.	80	34212	No
29	GOM_TRA_1PNPDE20080915_035259_000000392072_00090_34212_3005.N1	15-SEP-2008 03:52:59	Bright	39.000	93	53Bet Peg	2.5200	3100.0	78	34212	No
30	GOM_TRA_1PNPDE20080915_040317_000000402072_00090_34212_3006.N1	15-SEP-2008 04:03:17	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	34212	No
31	GOM_TRA_1PNPDE20080915_040505_000000422072_00090_34212_3007.N1	15-SEP-2008 04:05:05	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	34212	No
32	GOM_TRA_1PNPDE20080915_042726_000000442072_00090_34212_3174.N1	15-SEP-2008 04:27:26	Bright	44.000	24	66Alp Gem	1.5800	10200.	88	34212	No
33	GOM_TRA_1PNPDE20080915_043605_000000582072_00090_34212_3175.N1	15-SEP-2008 04:36:05	Twilight	58.000	8	10Alp CMi	0.40000	6500.0	116	34212	No
34	GOM_TRA_1PNPDE20080915_044508_000000592072_00090_34212_3176.N1	15-SEP-2008 04:45:08	Dark	59.000	1	9Alp CMa	-1.4400	11000.	118	34212	No
35	GOM_TRA_1PNPDE20080915_044722_000000502072_00090_34212_3177.N1	15-SEP-2008 04:47:22	Dark	49.500	23	21Eps CMa	1.5020	26000.	99	34212	No
36	GOM_TRA_1PNPDE20080915_045340_000000572072_00091_34213_3178.N1	15-SEP-2008 04:53:40	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	34213	No
37	GOM_TRA_1PNPDE20080915_050357_000000392072_00091_34213_3179.N1	15-SEP-2008 05:03:57	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	34213	No
38	GOM_TRA_1PNPDE20080915_050522_000000432072_00091_34213_3180.N1	15-SEP-2008 05:05:22	Dark	43.000	9	Alp Eri	0.45300	24000.	86	34213	No
39	GOM_TRA_1PNPDE20080915_051106_000000472072_00091_34213_3181.N1	15-SEP-2008 05:11:06	Straylight	47.000	84	Alp Phe	2.3970	4500.0	94	34213	No
40	GOM_TRA_1PNPDE20080915_052942_000000392072_00091_34213_3182.N1	15-SEP-2008 05:29:42	Bright	39.000	90	54Alp Peg	2.4870	11000.	78	34213	No
41	GOM_TRA_1PNPDE20080915_053335_000000392072_00091_34213_3183.N1	15-SEP-2008 05:33:35	Bright	38.500	93	53Bet Peg	2.5200	3100.0	77	34213	No
42	GOM_TRA_1PNPDE20080915_054352_000000412072_00091_34213_3184.N1	15-SEP-2008 05:43:52	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	34213	No
43	GOM_TRA_1PNPDE20080915_054541_000000432072_00091_34213_3185.N1	15-SEP-2008 05:45:41	Bright	43.000	76	27Gam Cas	2.3000	30000.	86	34213	No
44	GOM_TRA_1PNPDE20080915_201634_000000452072_00100_34222_3587.N1	15-SEP-2008 20:16:34	Straylight	44.500	84	Alp Phe	2.3970	4500.0	89	34222	No
45	GOM_TRA_1PNPDE20080915_203504_000000402072_00100_34222_3588.N1	15-SEP-2008 20:35:04	Bright	40.000	90	54Alp Peg	2.4870	11000.	80	34222	No
46	GOM_TRA_1PNPDE20080915_203856_000000412072_00100_34222_3589.N1	15-SEP-2008 20:38:56	Bright	41.000	93	53Bet Peg	2.5200	3100.0	82	34222	No
47	GOM_TRA_1PNPDE20080915_204912_000000422072_00100_34222_3590.N1	15-SEP-2008 20:49:12	Bright	41.500	74	11Bet Cas	2.2680	6600.0	83	34222	No
48	GOM_TRA_1PNPDE20080915_205059_000000432072_00100_34222_3591.N1	15-SEP-2008 20:50:59	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	34222	No
49	GOM_TRA_1PNPDE20080915_211327_000000452072_00100_34222_3592.N1	15-SEP-2008 21:13:27	Bright	44.500	24	66Alp Gem	1.5800	10200.	89	34222	No
50	GOM_TRA_1PNPDE20080915_212210_000000532072_00100_34222_3593.N1	15-SEP-2008 21:22:10	Twilight	52.500	8	10Alp CMi	0.40000	6500.0	105	34222	No

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



4. Overview of dark signal processing per product

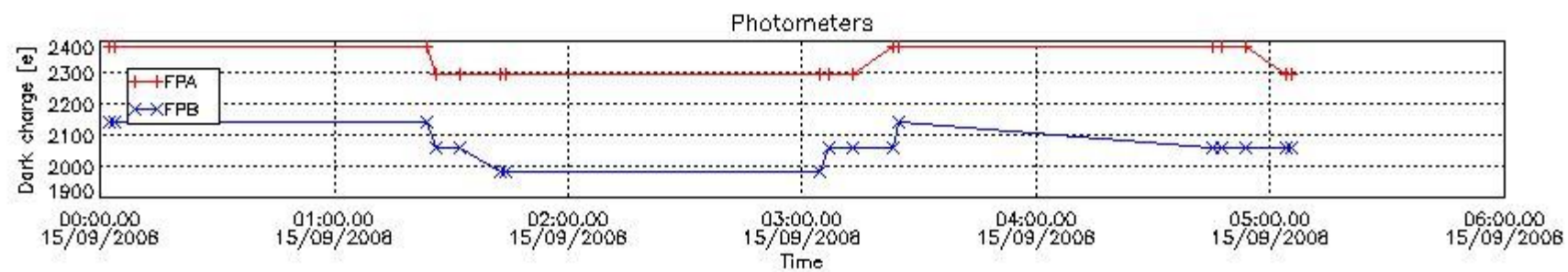
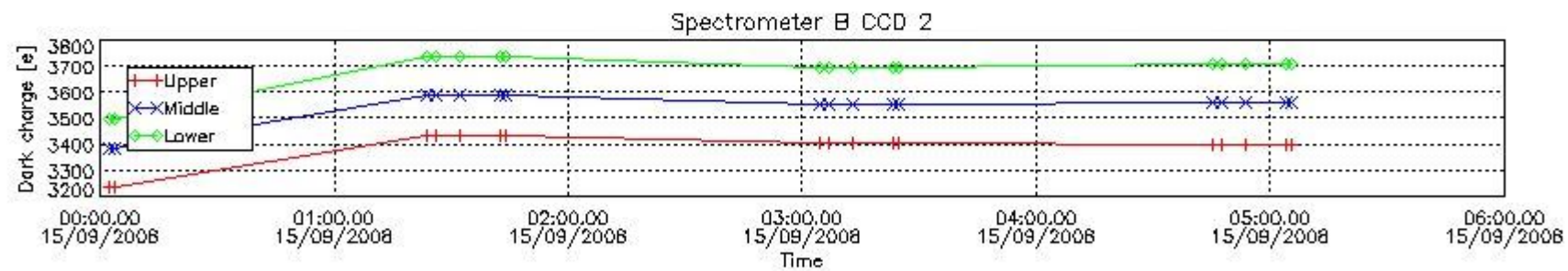
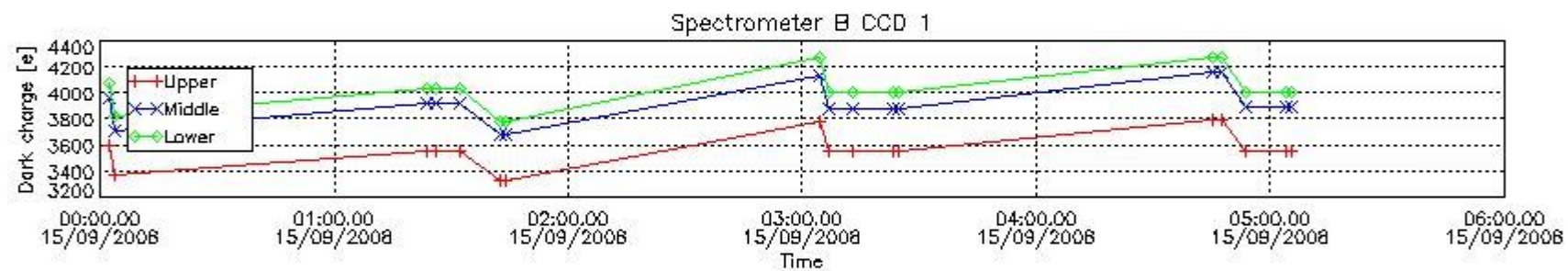
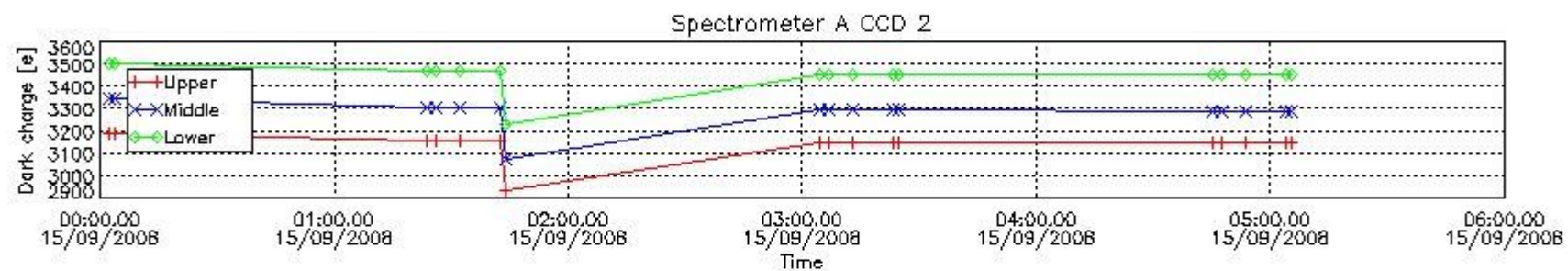
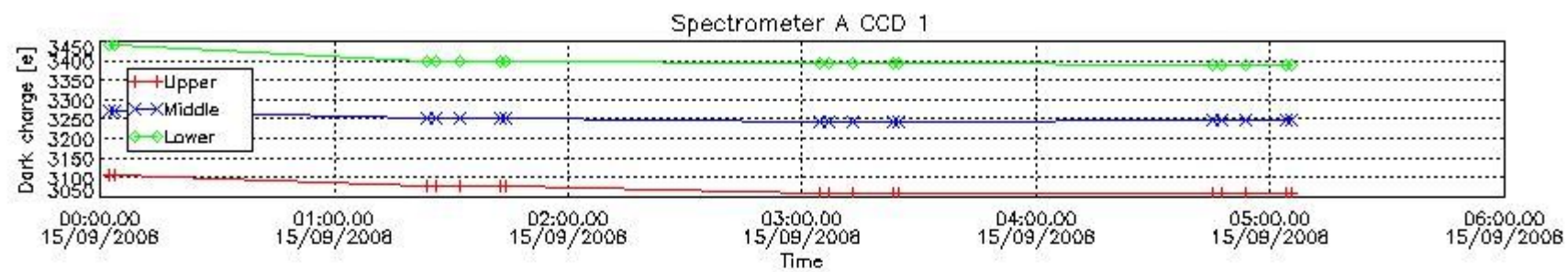
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20080915_201634_000000452072_00100_34222_3587.N1	DC map used
GOM_TRA_1PNPDE20080915_203504_000000402072_00100_34222_3588.N1	DC map used
GOM_TRA_1PNPDE20080915_203856_000000412072_00100_34222_3589.N1	DC map used
GOM_TRA_1PNPDE20080915_204912_000000422072_00100_34222_3590.N1	DC map used
GOM_TRA_1PNPDE20080915_205059_000000432072_00100_34222_3591.N1	DC map used
GOM_TRA_1PNPDE20080915_211327_000000452072_00100_34222_3592.N1	DC map used
GOM_TRA_1PNPDE20080915_212210_000000532072_00100_34222_3593.N1	DC map used

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



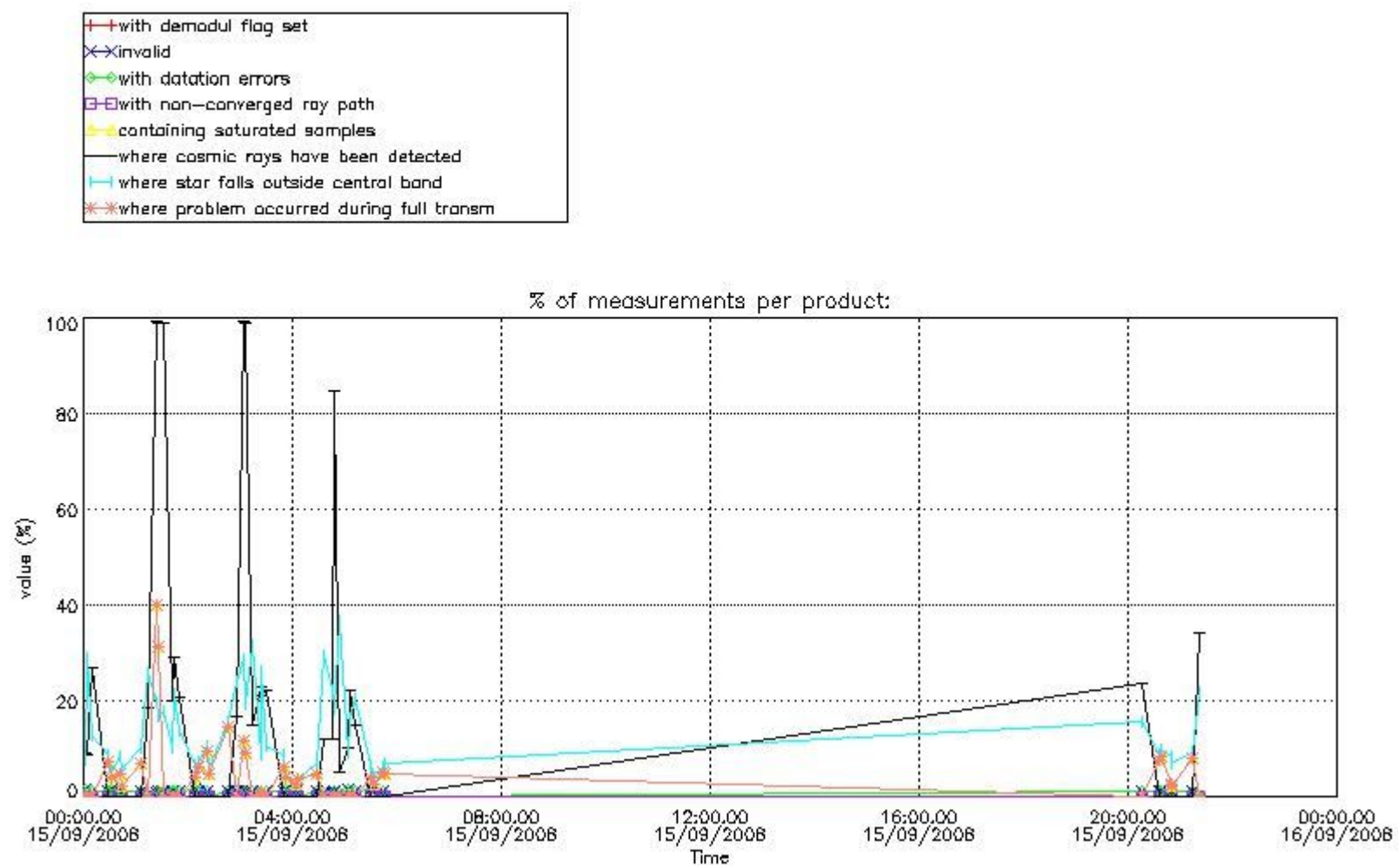
5. Demodulation flag and quality information monitoring

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.

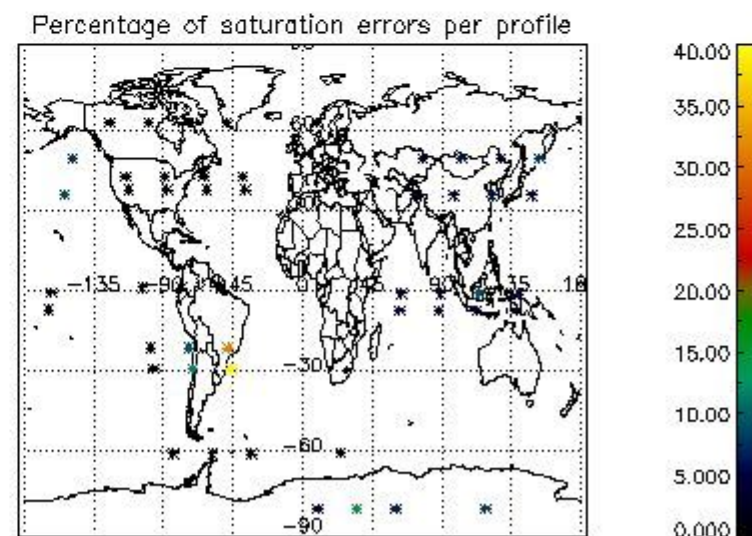
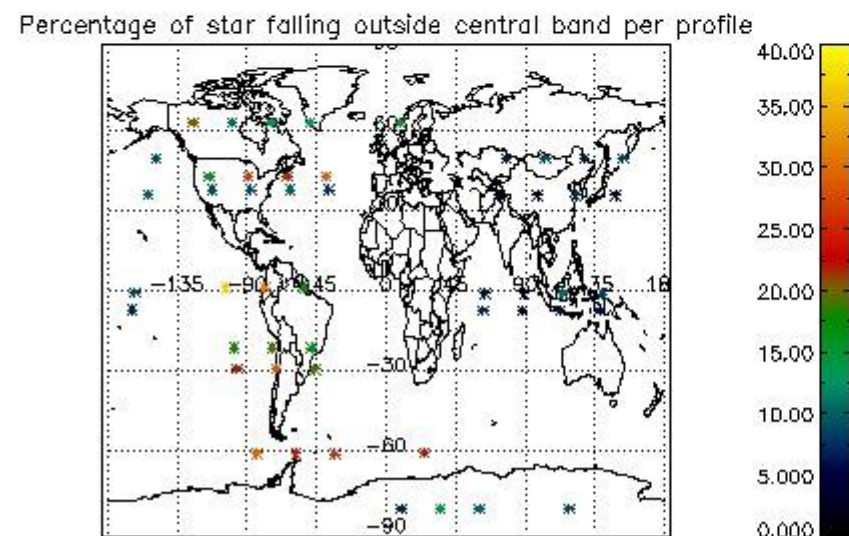
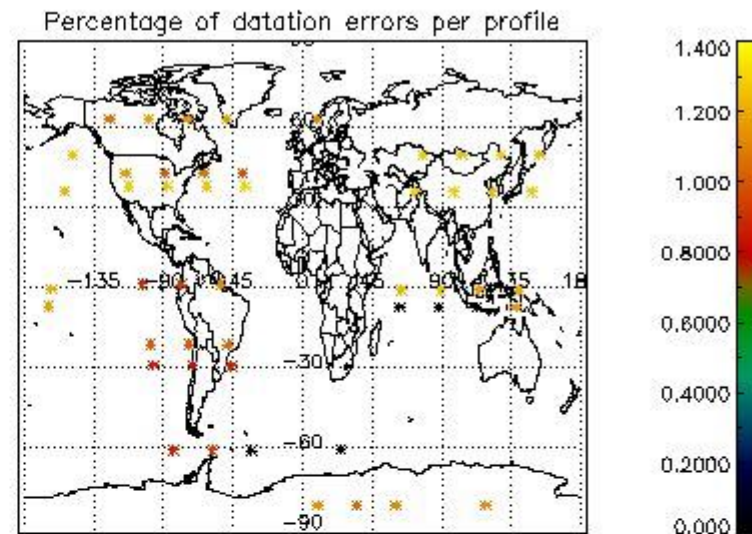
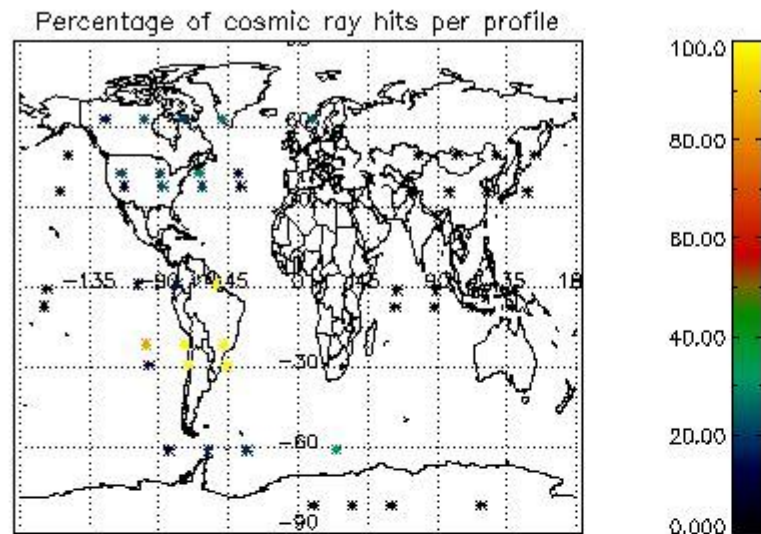
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	30.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



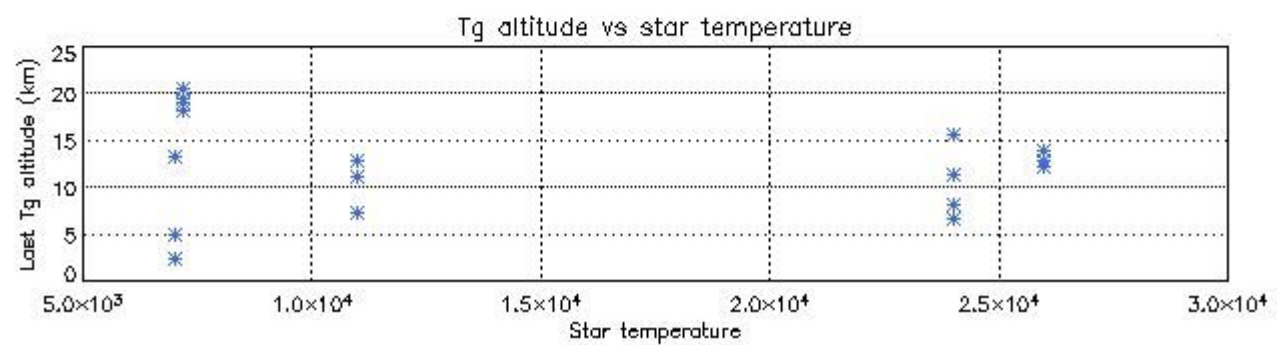
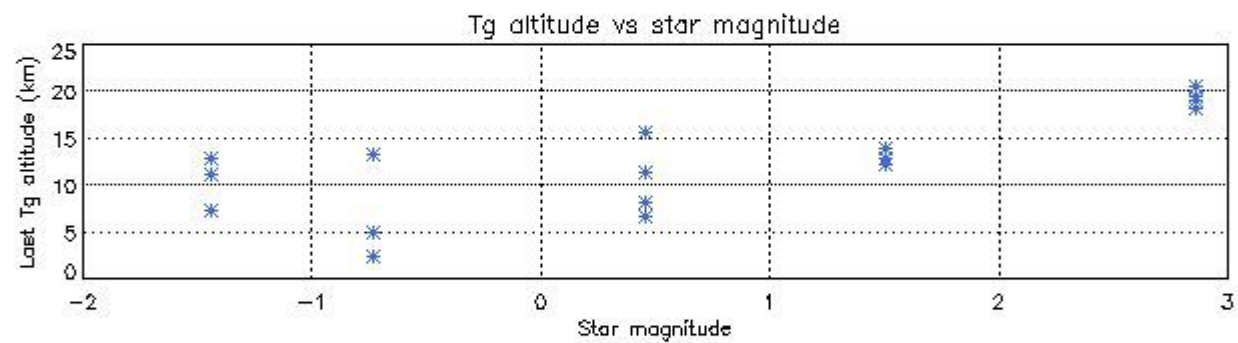
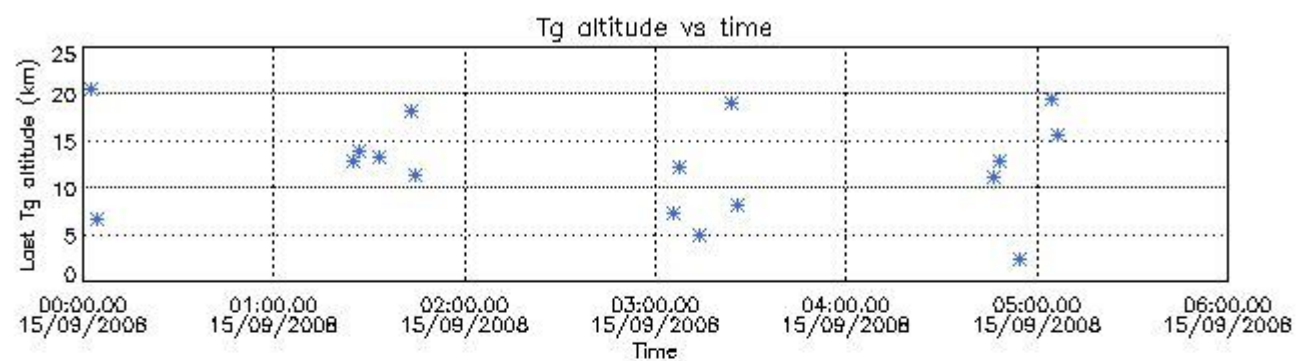
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.320	20.122	9.1482
St. deviation:	5.2865	2.3213	1.5830
Maximum:	20.417	23.755	10.677
Minimum:	2.2439	13.493	6.9273
Number of data:	17.000	24.000	4.0000

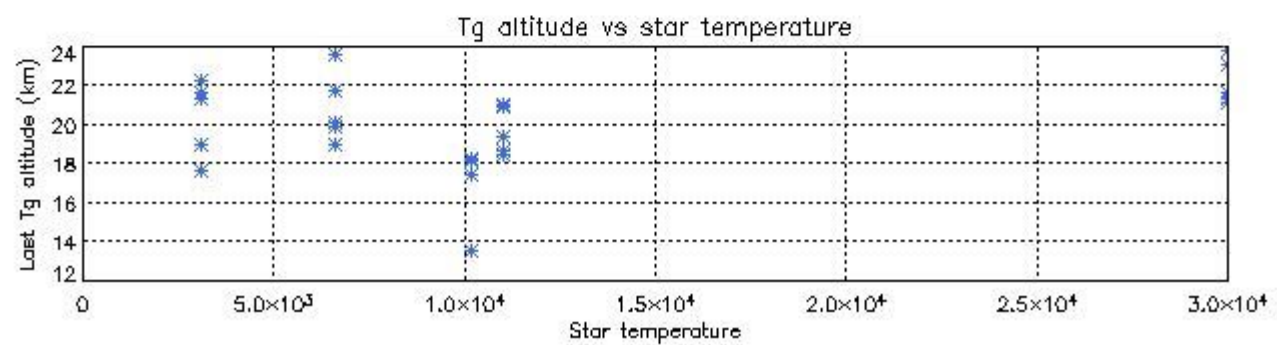
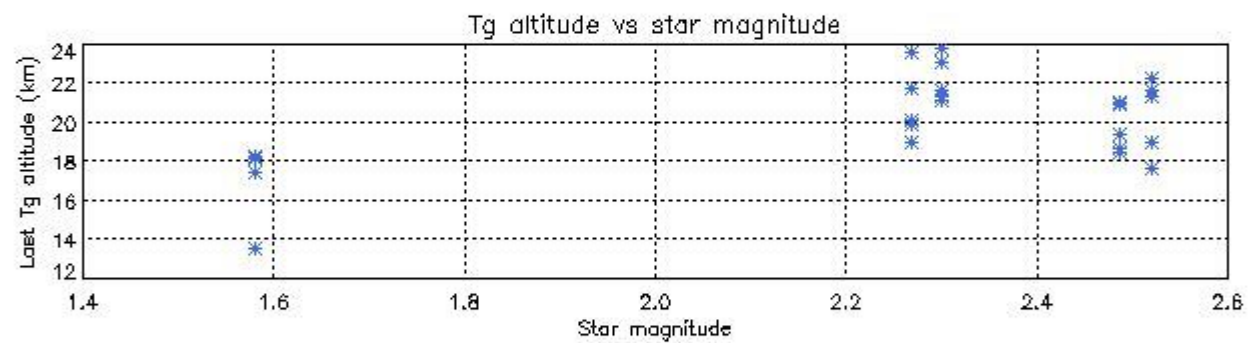
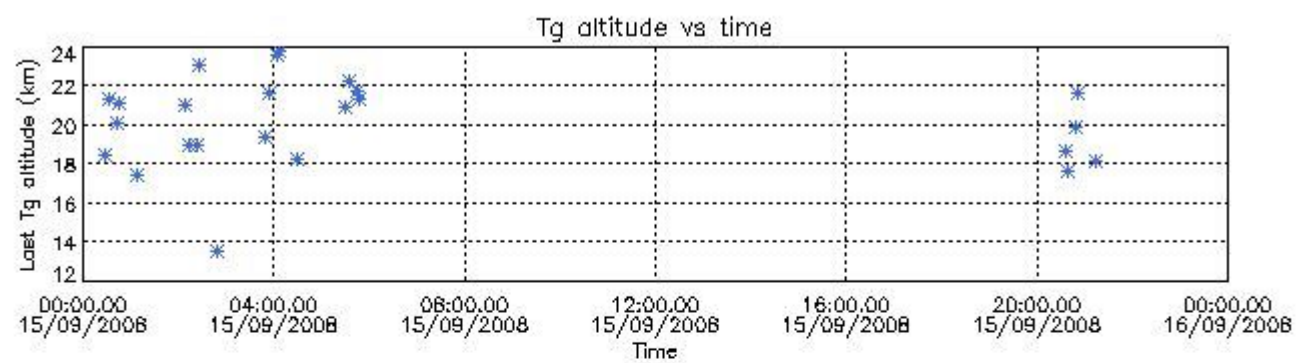
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



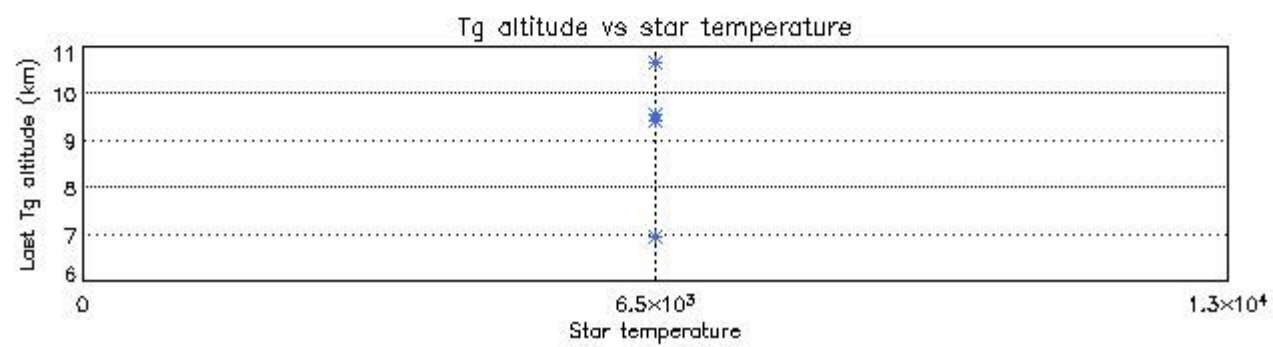
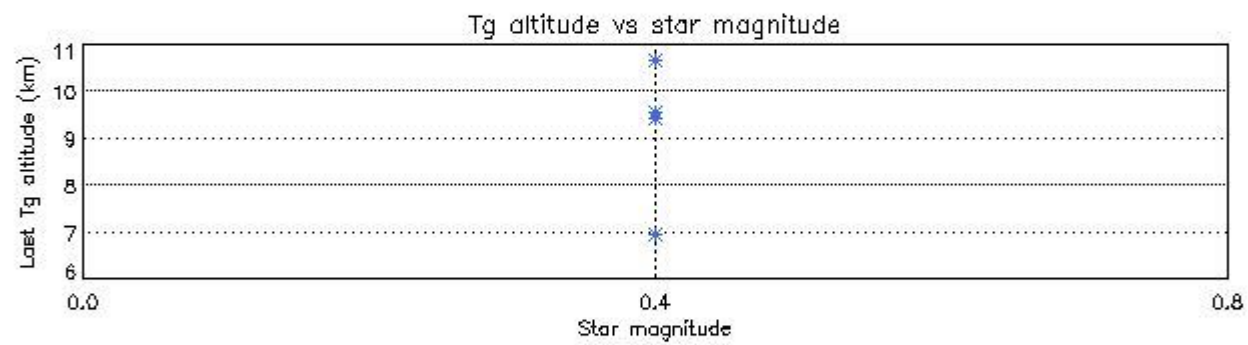
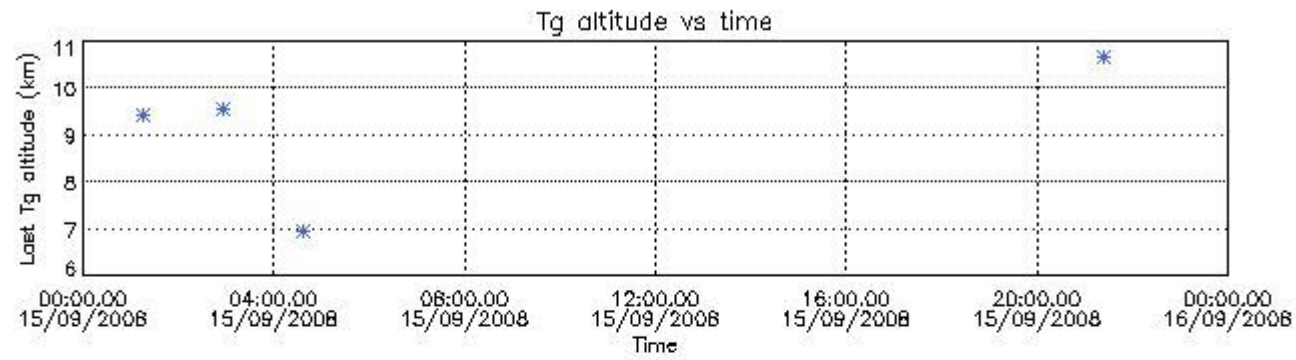
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

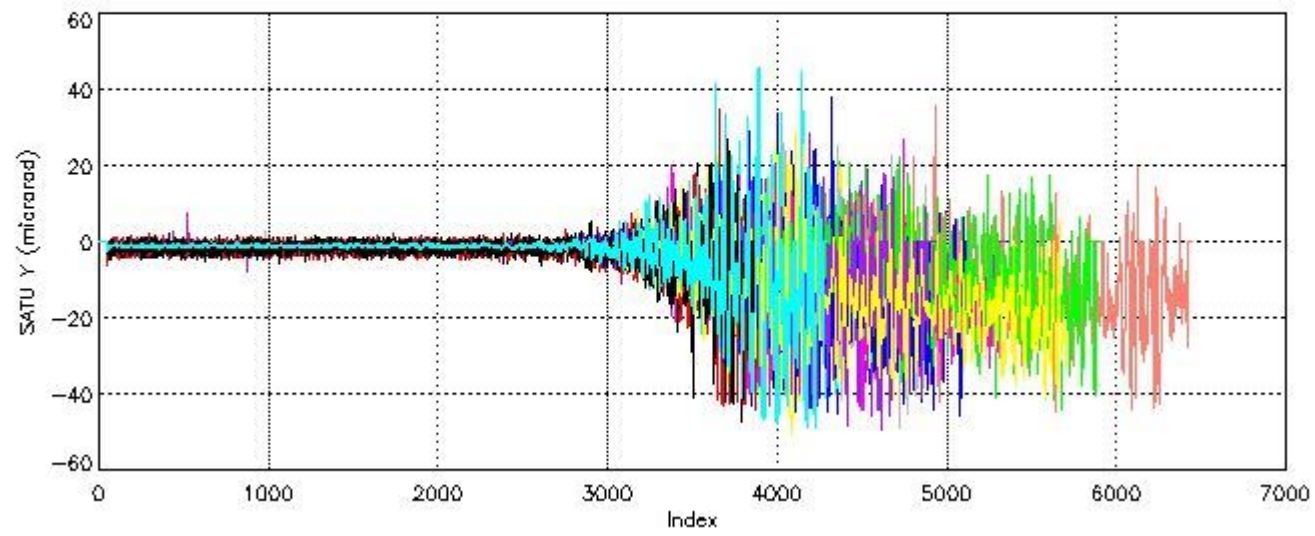
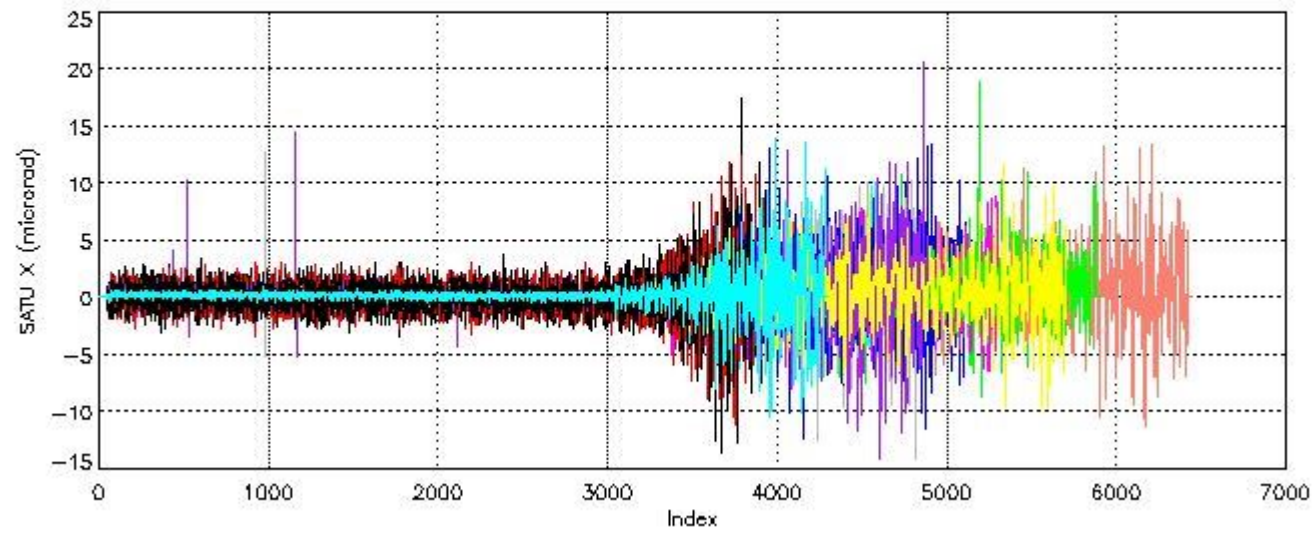


7. Star Acquisition and Tracking Unit (SATU)

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:	0.20557	-1.3304	0.25809	-1.2577
St. deviation:	0.40470	0.62232	0.66716	0.81667
Maximum:	12.800	7.6000	4.5000	3.2000
Minimum:	-5.1000	-7.8000	-3.1000	-6.4000

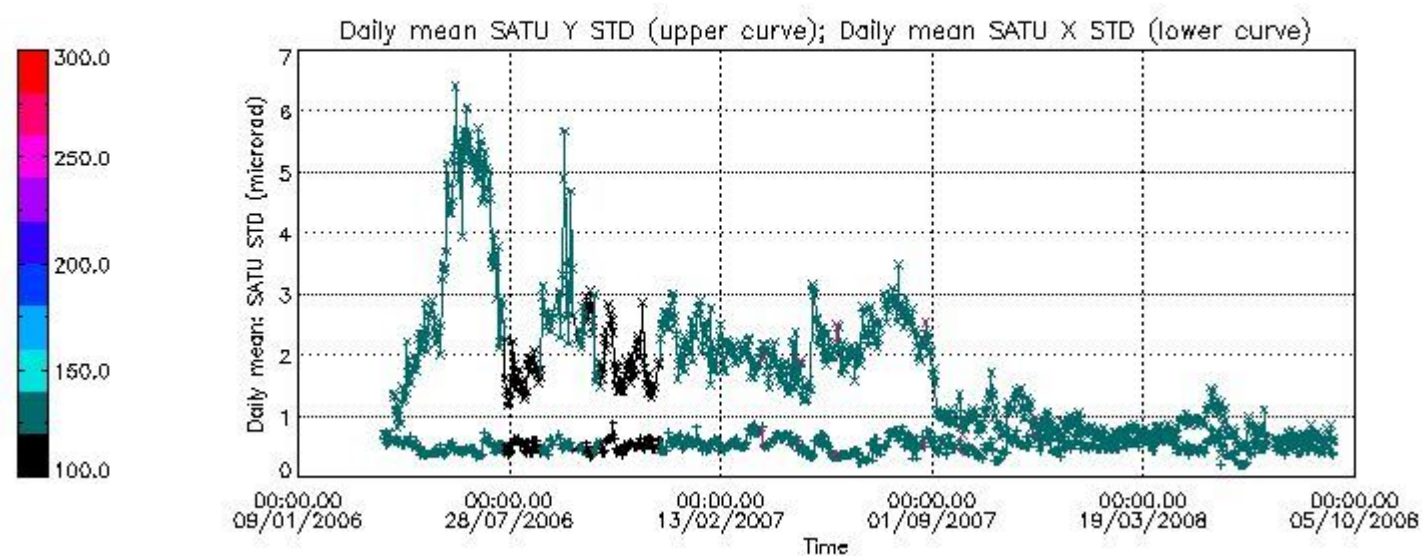
Number of data:	16800.	16800.	23000.	23000.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

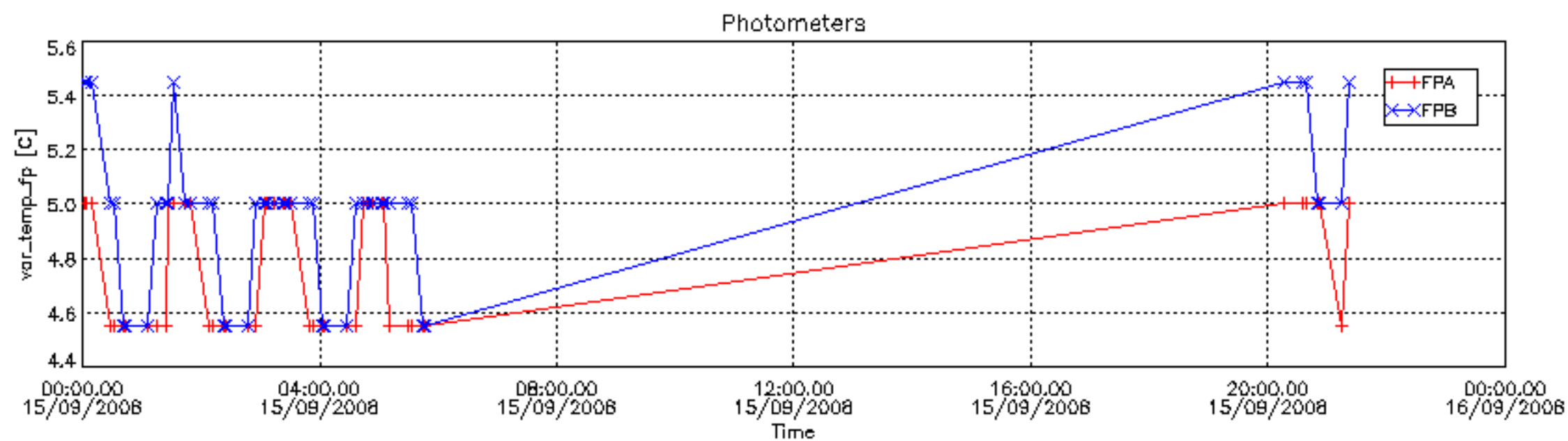
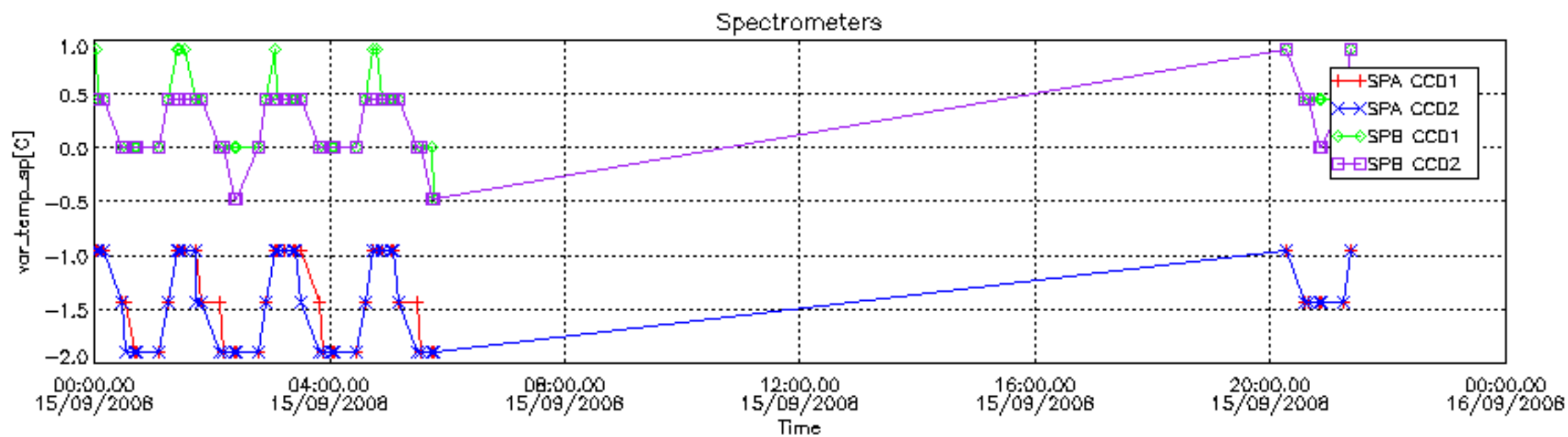
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

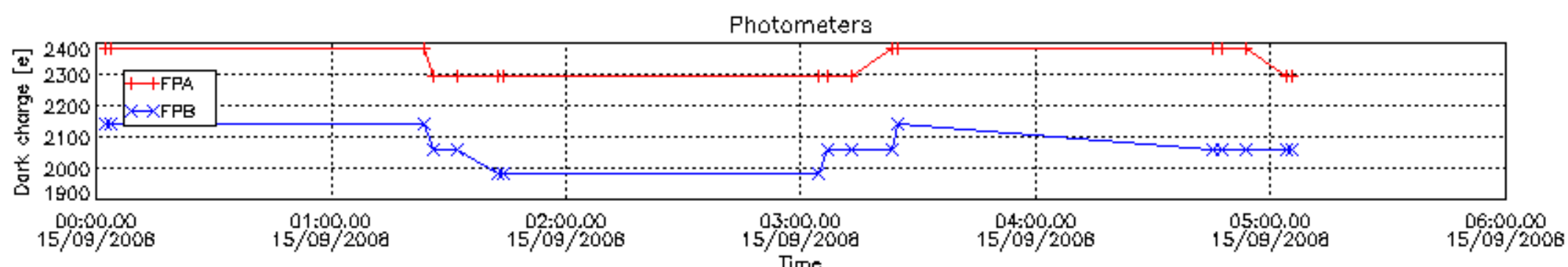
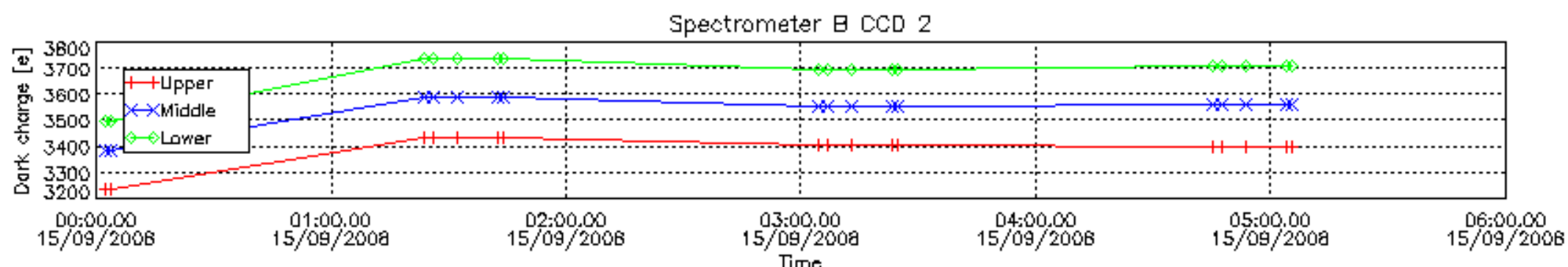
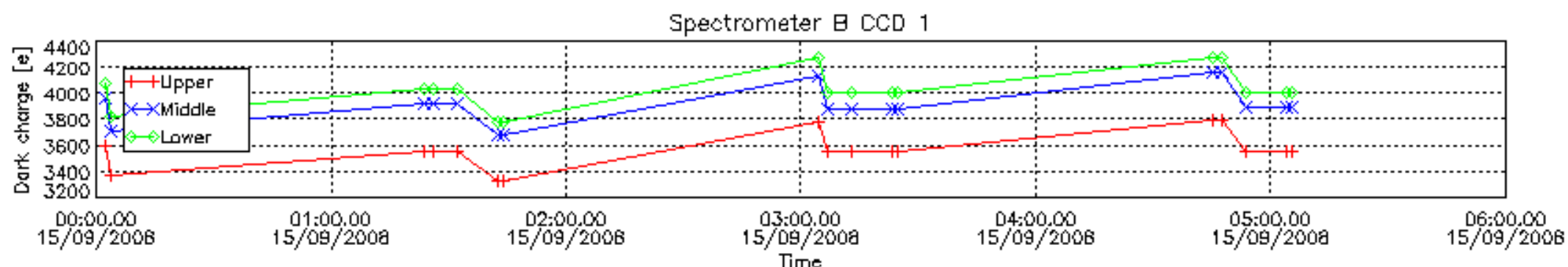
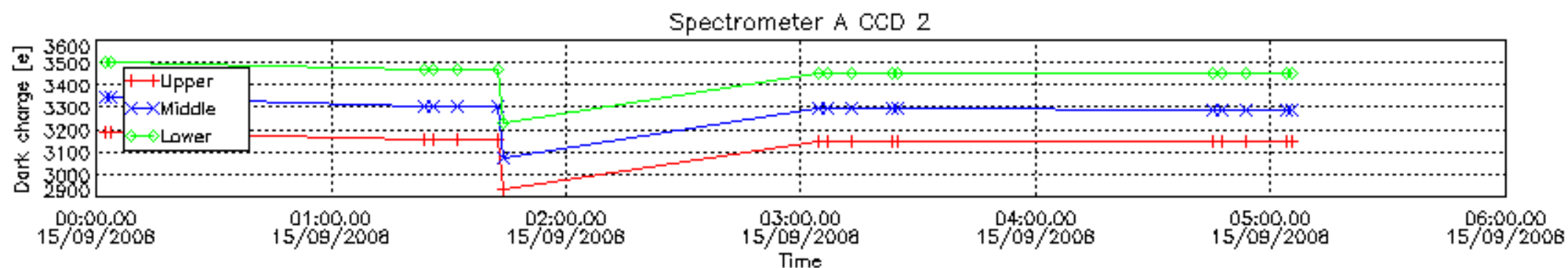
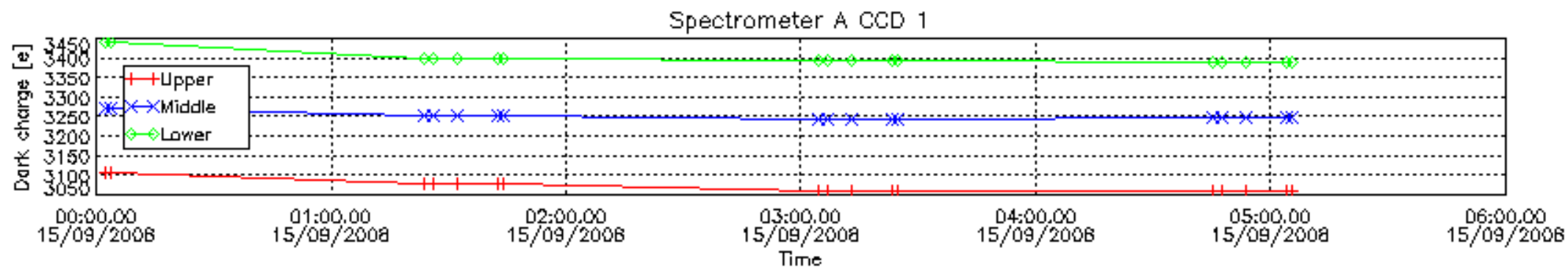


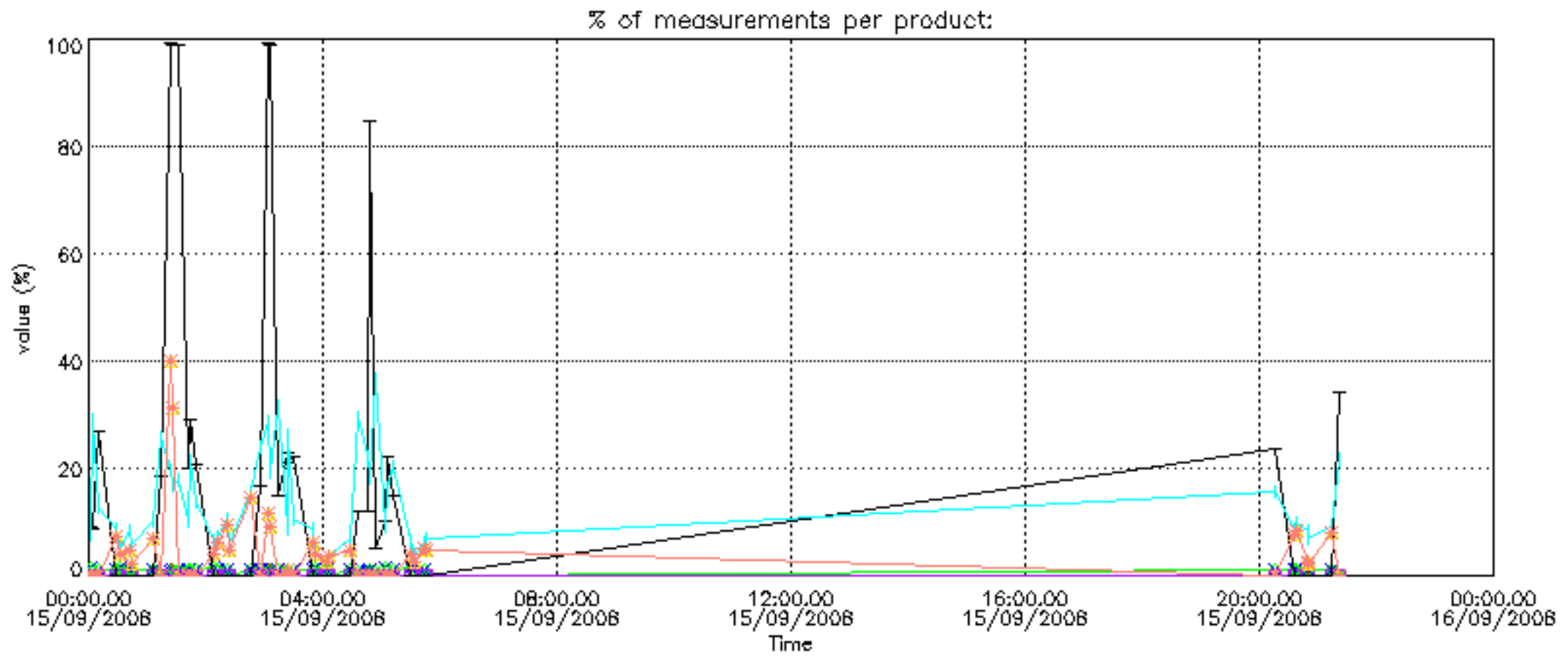
8. Auxiliary Data Files used for the production reported in section 2.4

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.

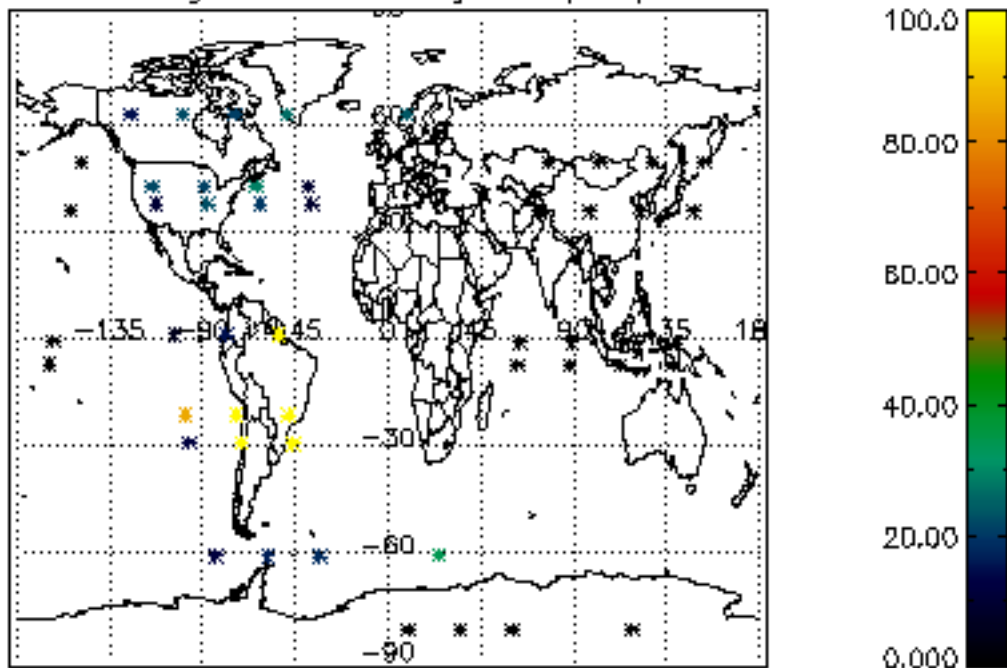
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080912_090950_20080910_000000_20100101_000000	1	15-SEP-2008 00:02:07
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	15-SEP-2008 00:02:07
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	15-SEP-2008 00:02:07
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	15-SEP-2008 00:02:07
ECMWF_FILE	AUX_ECF_AXNECM20080914_072110_20080914_210000_20080915_090000	1	15-SEP-2008 00:02:07
ECMWF_FILE	AUX_ECF_AXNECM20080914_190112_20080915_030000_20080915_150000	32	15-SEP-2008 04:27:26
ECMWF_FILE	AUX_ECF_AXNECM20080915_072110_20080915_150000_20080916_030000	44	15-SEP-2008 20:16:34
OPTIONAL_ECMWF_FILE	MISSING	1	15-SEP-2008 00:02:07
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080914_215456_000057382072_00086_34208_6360.N1	1	15-SEP-2008 00:02:07
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080914_233553_000057382072_00087_34209_6361.N1	10	15-SEP-2008 01:23:54
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080915_011650_000044632072_00088_34210_6362.N1	20	15-SEP-2008 02:46:50
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080915_023632_000054192072_00089_34211_6363.N1	32	15-SEP-2008 04:27:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080915_200832_000041442072_00100_34222_6365.N1	44	15-SEP-2008 20:16:34



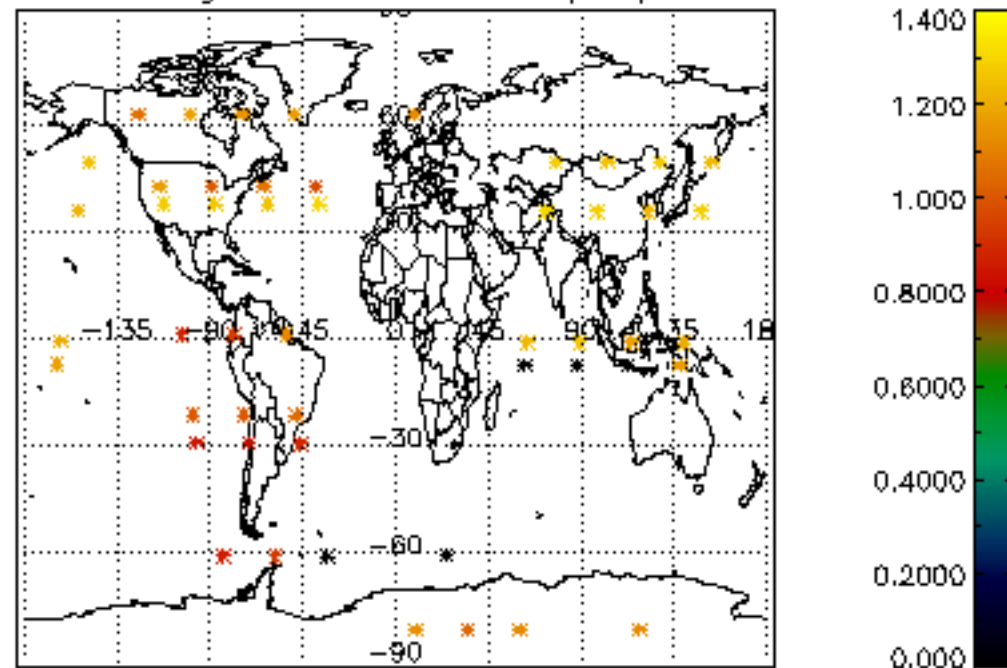




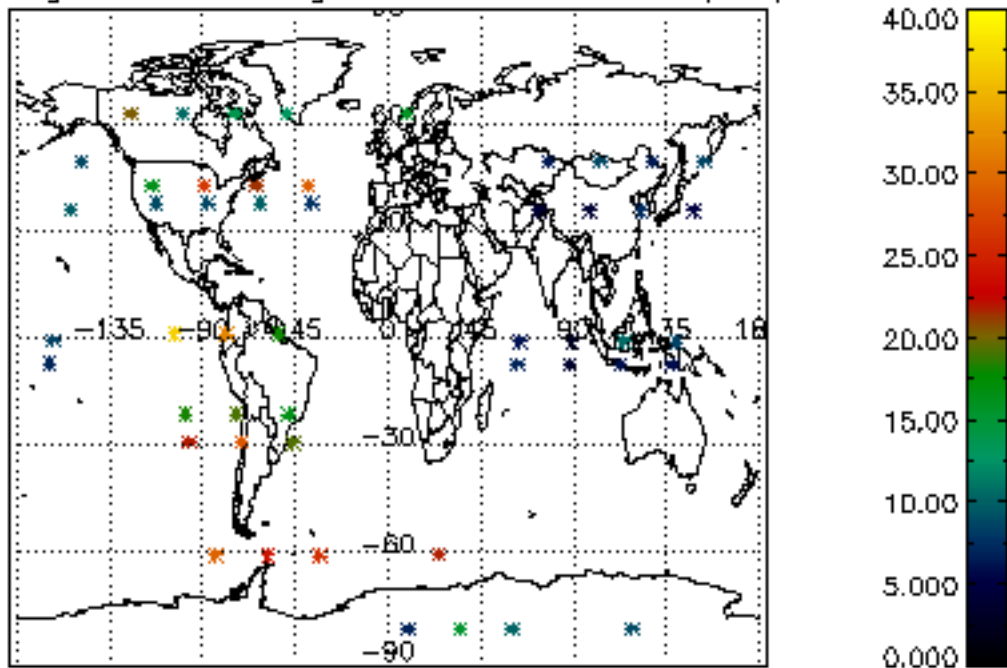
Percentage of cosmic ray hits per profile



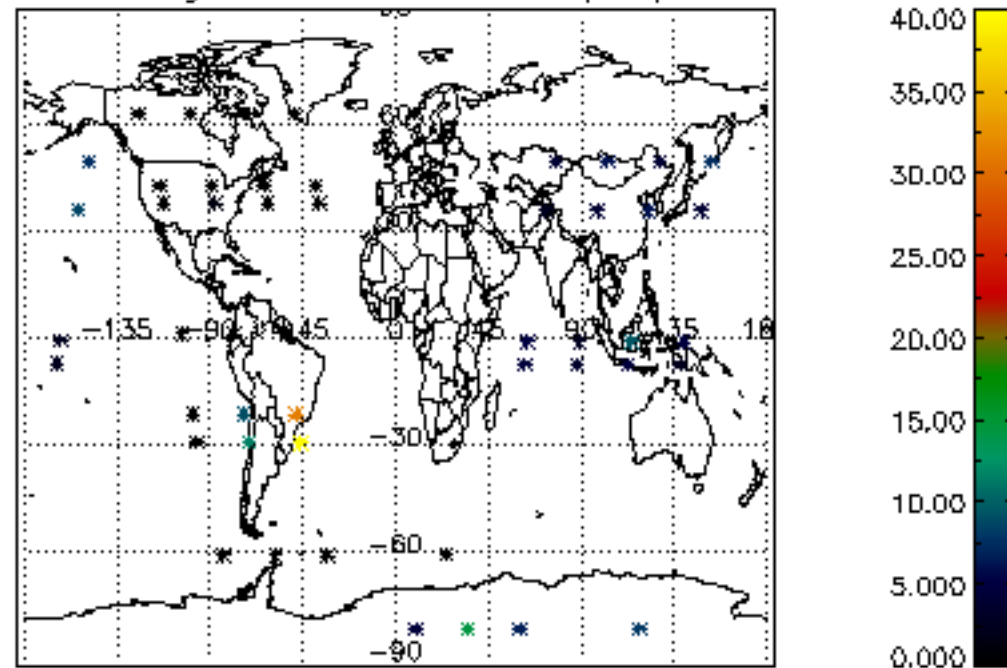
Percentage of datation errors per profile



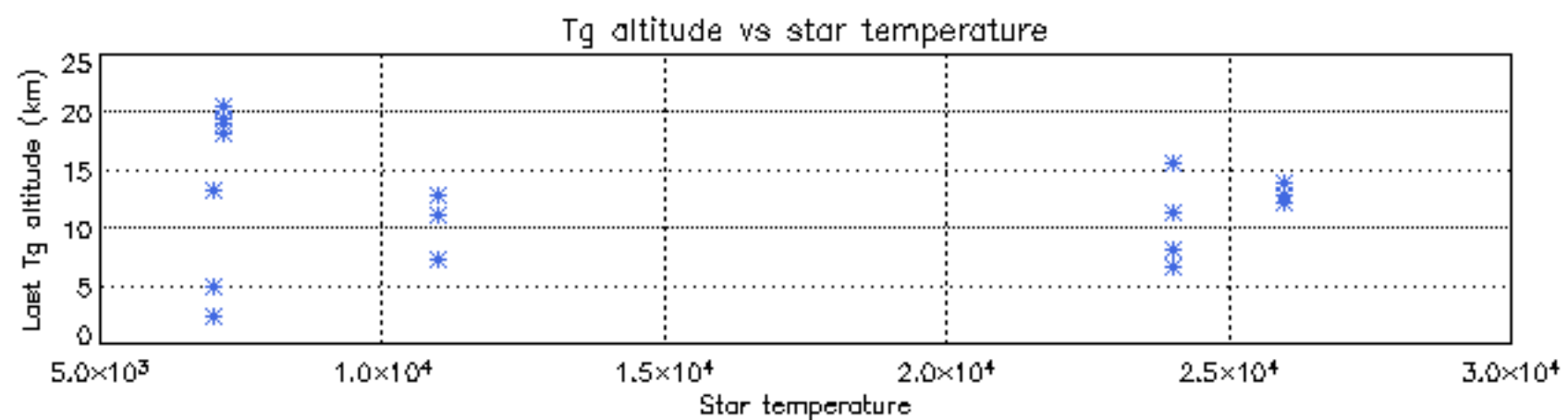
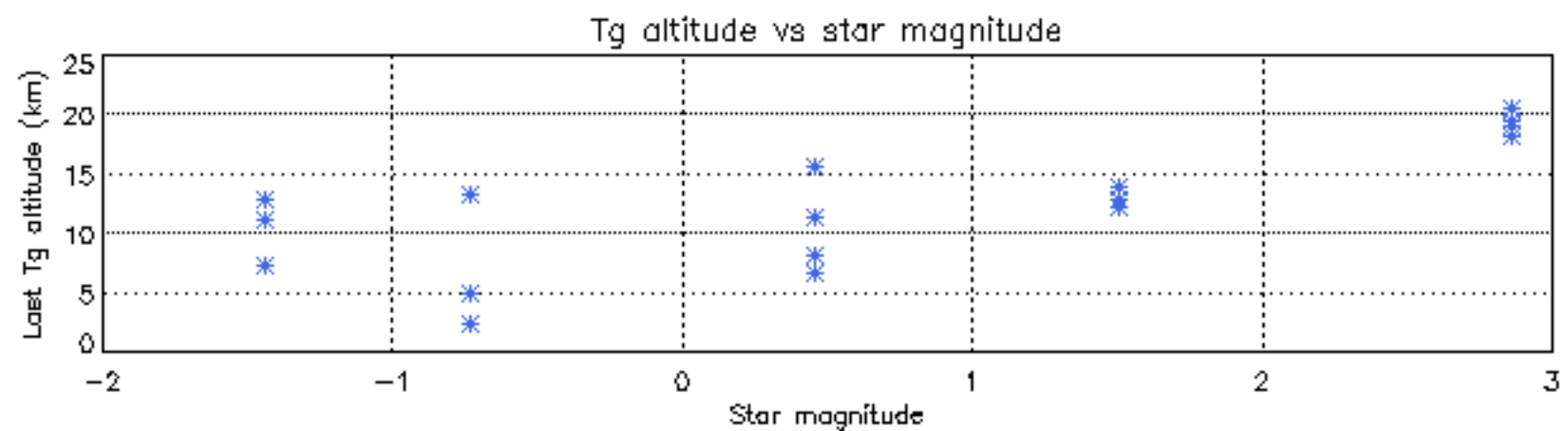
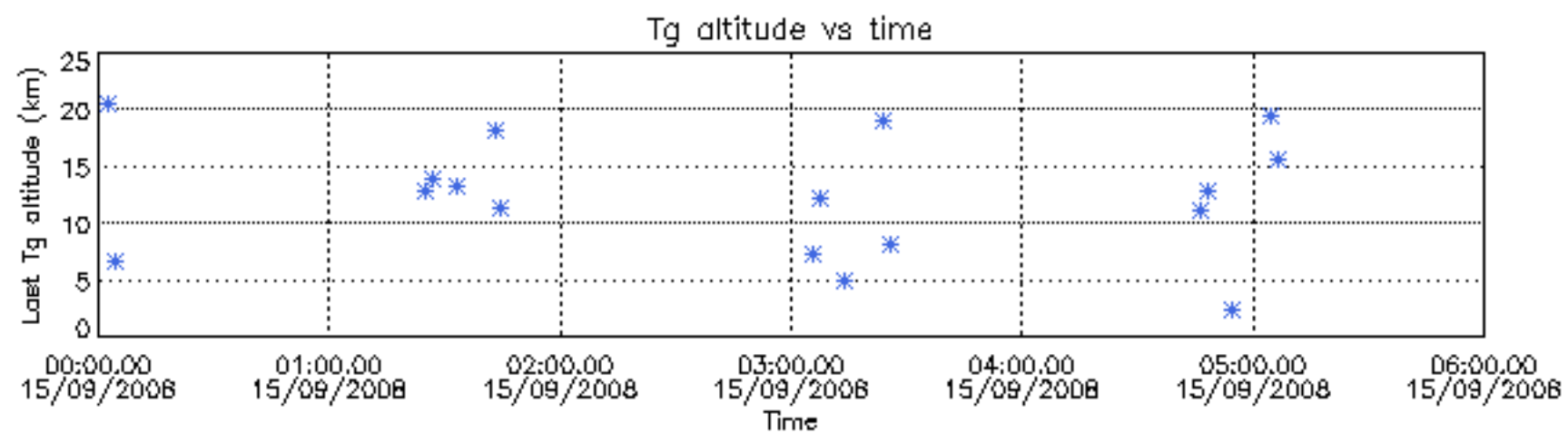
Percentage of star falling outside central band per profile



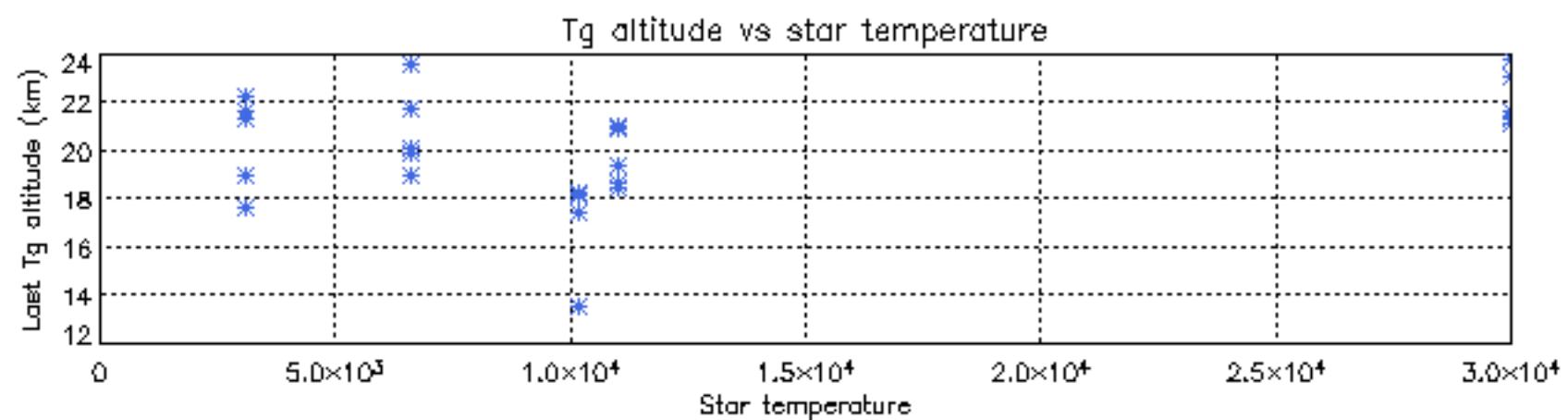
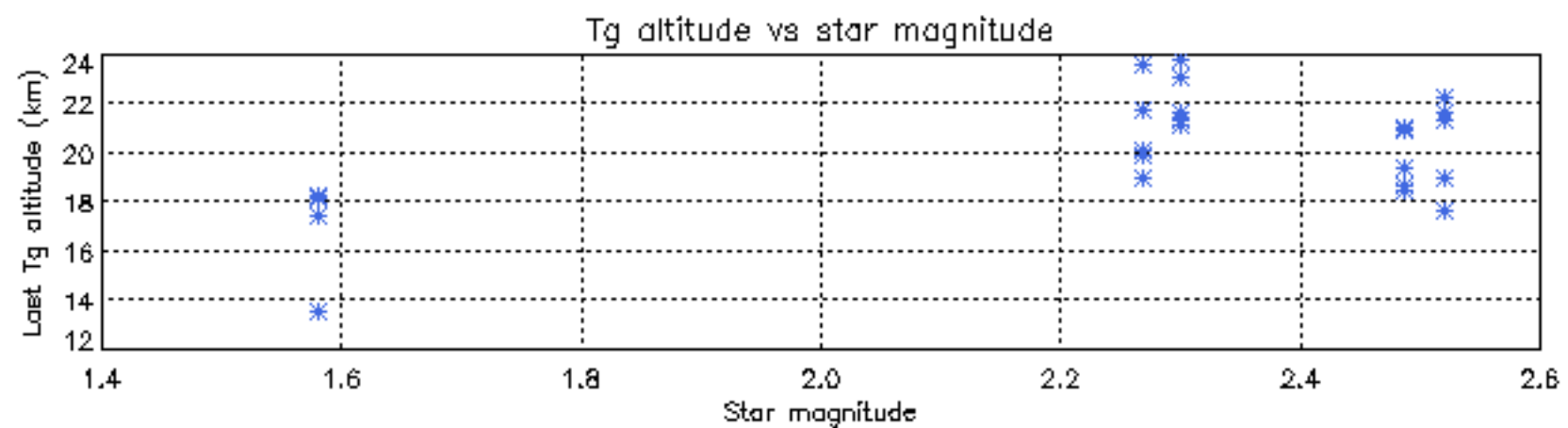
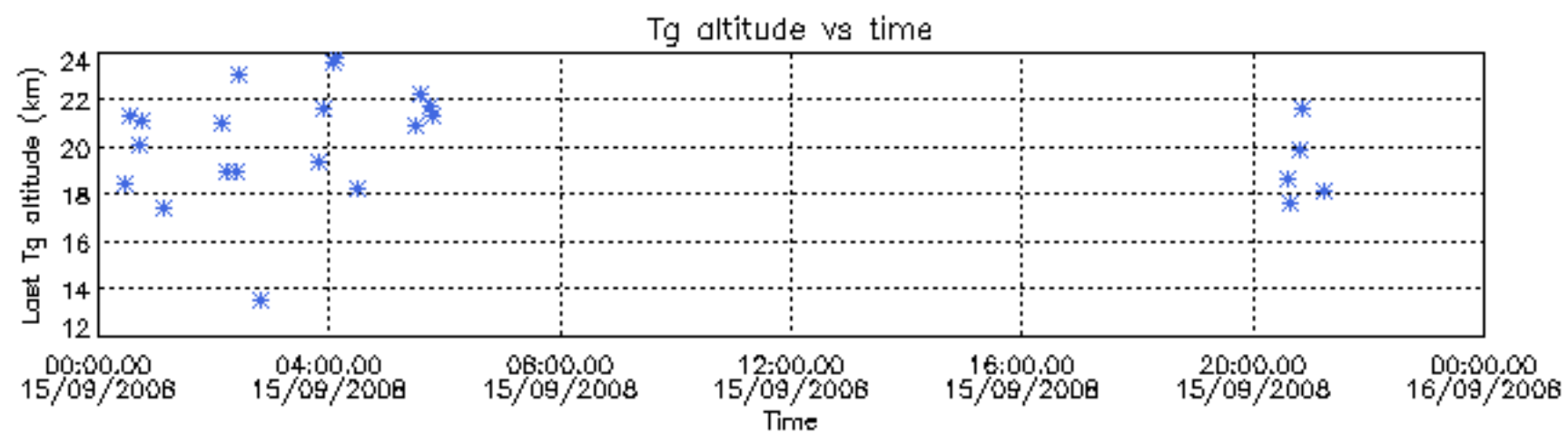
Percentage of saturation errors per profile



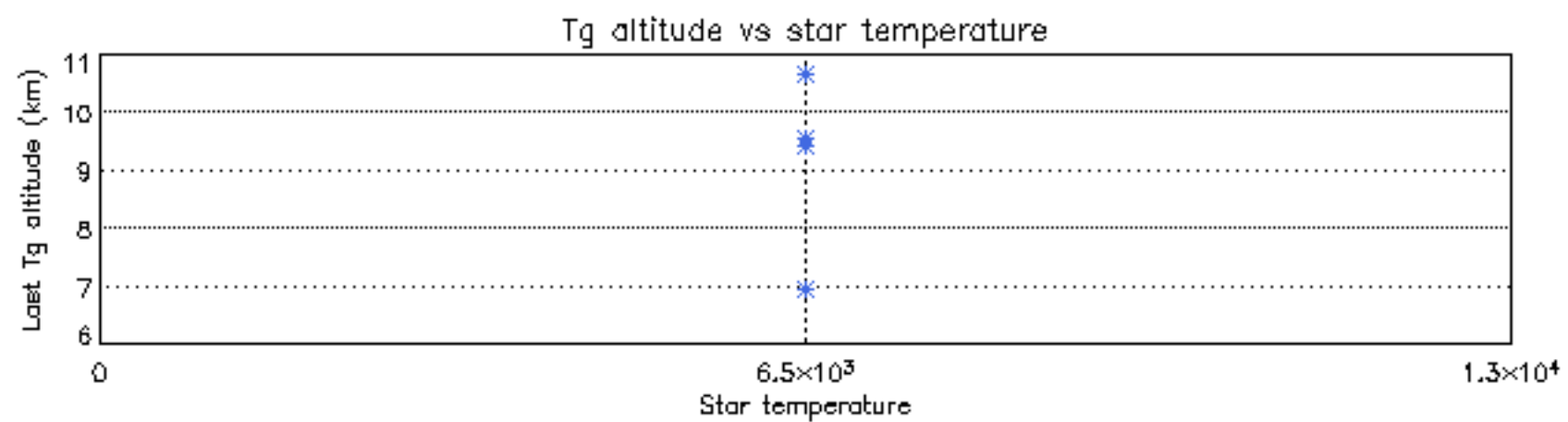
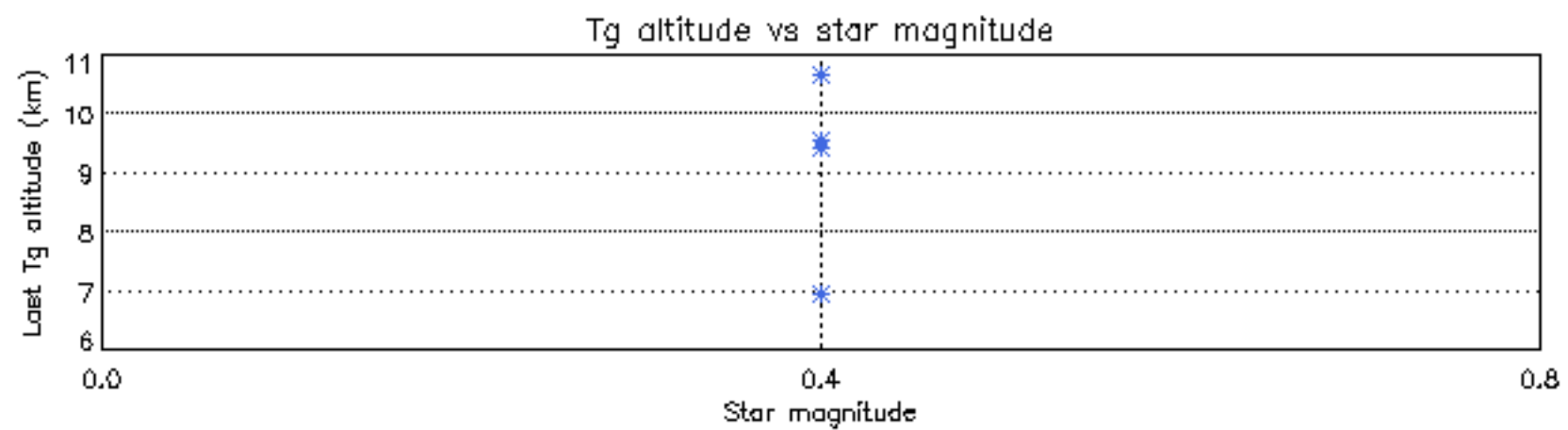
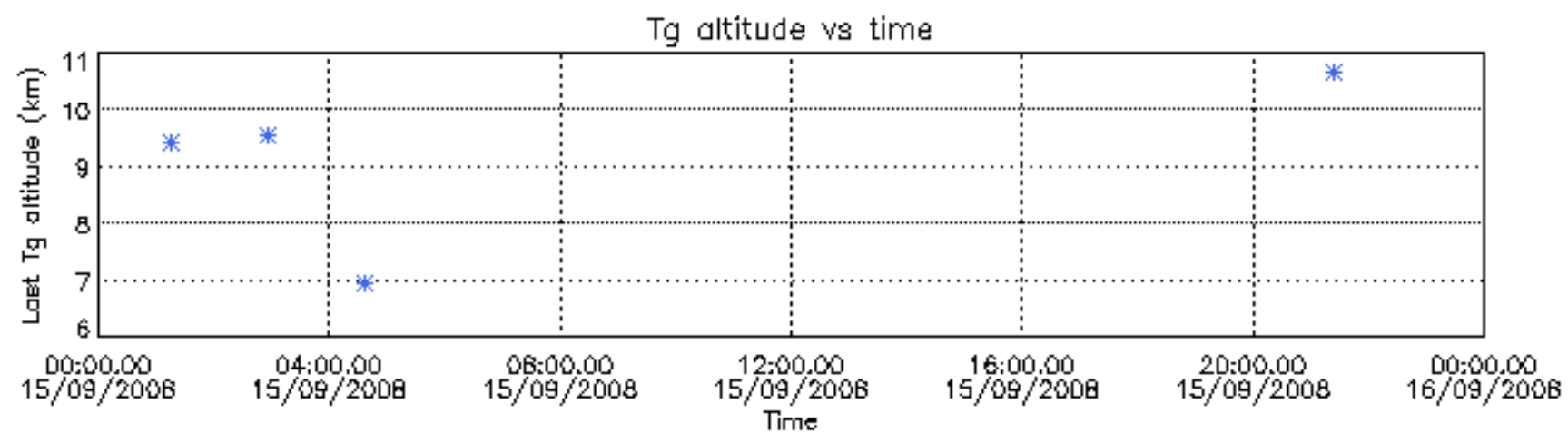
Tangent altitude at which the star is lost

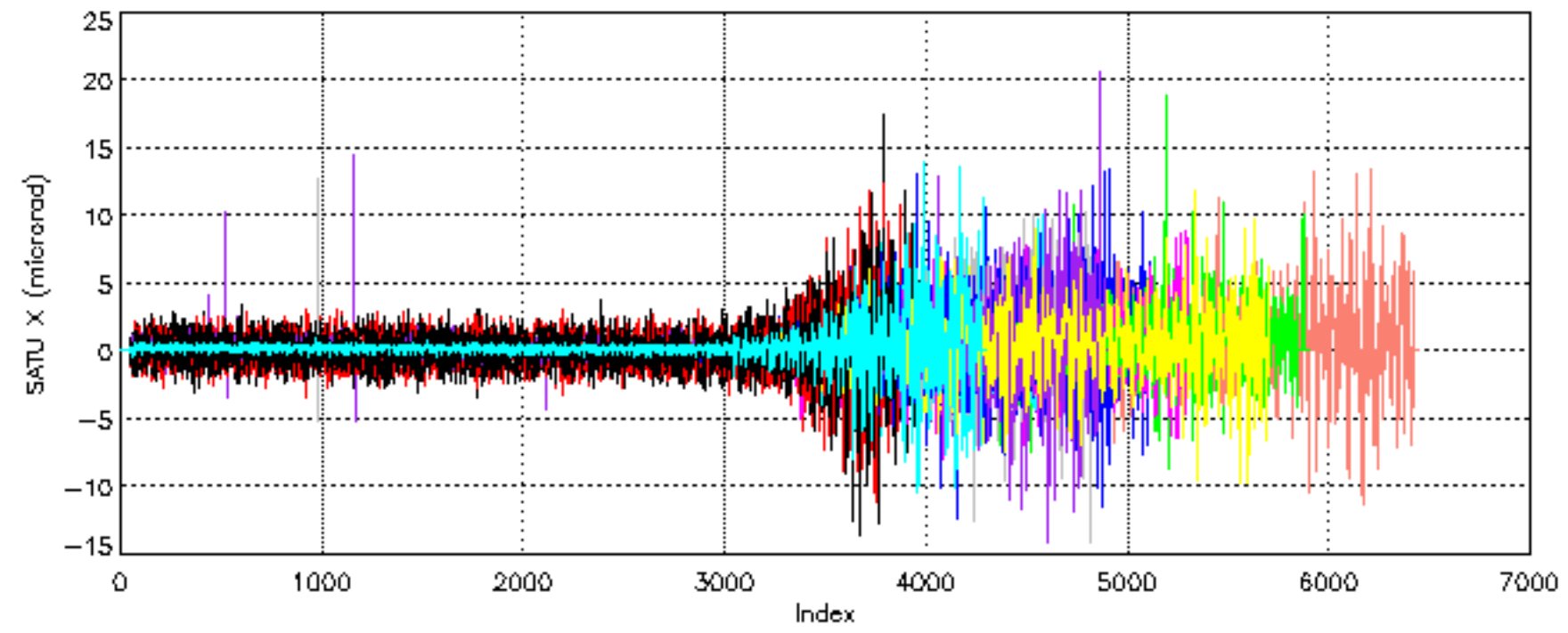


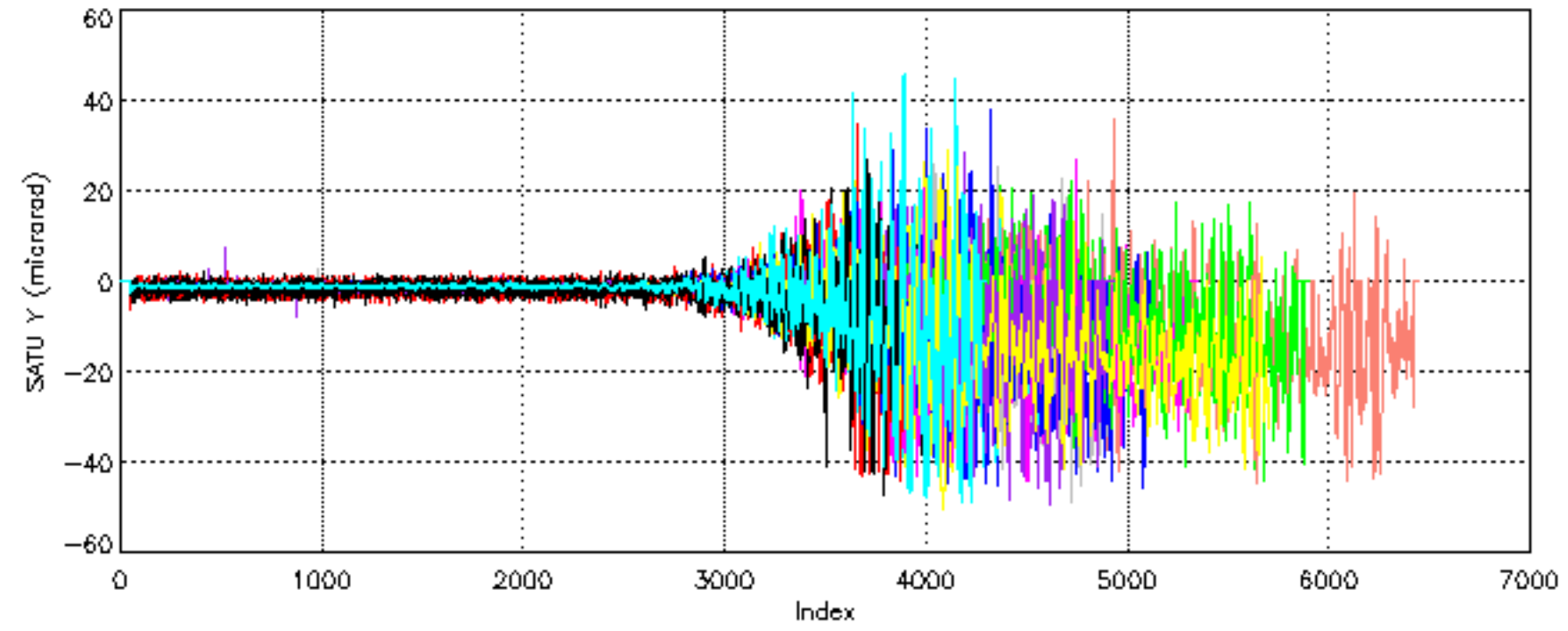
Tangent altitude at which the star is lost

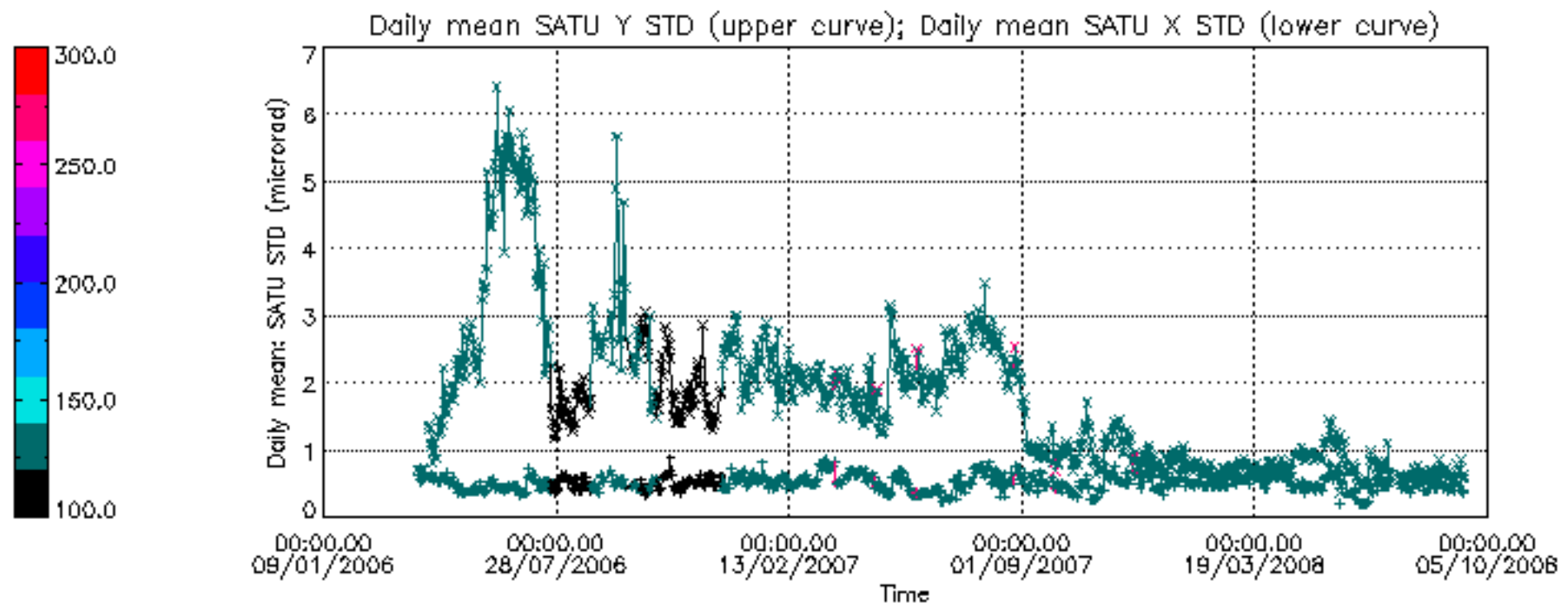


Tangent altitude at which the star is lost









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 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
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 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
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 13; 1895.6; 01-SEP-2008 01:03:24; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;34010
 14; 2075.4; 01-SEP-2008 01:06:24; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;34010
 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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 2; -493.7; 01-SEP-2008 02:04:11; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;34010
 3; -399.4; 01-SEP-2008 02:05:45; Dark ; 42.5; 117; Pi Pup ; 2.71; 3800;occ; 85; 0;34010
 4; -276.1; 01-SEP-2008 02:07:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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
 10; 1331.1; 01-SEP-2008 02:34:35; Dark ; 46.0; 18; 24Alp PsA ; 1.17; 9700;occ; 92; 0;34011
 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
 14; 2075.4; 01-SEP-2008 02:47:00; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;34011
 15; 2488.0; 01-SEP-2008 02:53:52; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 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
 19; 3434.6; 01-SEP-2008 03:09:39; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;34011

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 2; -1119.3; 01-SEP-2008 03:34:21; Dark ; 44.0; 8; 10Alp CMi ; 0.40; 6500;occ; 88; 0;34011
 3; -658.2; 01-SEP-2008 03:42:02; Dark ; 52.5; 1; 9Alp CMA ; -1.44; 11000;occ; 105; 0;34011
 4; -493.2; 01-SEP-2008 03:44:47; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;34011
 5; -399.0; 01-SEP-2008 03:46:21; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;34011
 6; -275.7; 01-SEP-2008 03:48:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34011
 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
 10; 965.7; 01-SEP-2008 04:09:06; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;34012
 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
 14; 1808.1; 01-SEP-2008 04:23:08; Bright; 36.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 73; 0;34012
 15; 1895.6; 01-SEP-2008 04:24:36; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 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
 20; 2975.3; 01-SEP-2008 04:42:36; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;34012
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4; -492.5; 01-SEP-2008 05:25:24; Dark ; 45.0; 23; 21Eps CMa ; 1.50; 26000;occ; 90; 0;34012
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6; -275.3; 01-SEP-2008 05:29:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34012
7; -88.3; 01-SEP-2008 05:32:08; Dark ; 53.5; 2; Alp Car ;-0.74; 7000;occ; 107; 0;34012
8; 531.5; 01-SEP-2008 05:42:28; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;34013
9; 608.8; 01-SEP-2008 05:43:45; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;34013
10; 966.3; 01-SEP-2008 05:49:43; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;34013
11; 1086.5; 01-SEP-2008 05:51:43; Dark ; 37.0; 31; Alp Gru ; 1.73; 15200;occ; 74; 0;34013
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17; 2488.4; 01-SEP-2008 06:15:05; Bright; 35.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 70; 0;34013
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6; 1895.4; 01-SEP-2008 21:10:35; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;34022
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 5; 2681.8; 04-SEP-2008 09:45:15; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;34058
 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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7; -257.8; 04-SEP-2008 10:36:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34058
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4; 2492.4; 04-SEP-2008 11:22:41; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;34059
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8; 4484.0; 16-SEP-2008 20:41:52; Bright; 44.5; 24; 66Alp Gem ; 1.58; 10200;occ; 89; 0;34236
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6; 33.3; 16-SEP-2008 21:08:17; Dark ; 42.0; 2; Alp Car ;-0.74; 7000;occ; 84; 0;34237
7; 646.6; 16-SEP-2008 21:18:31; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;34237
8; 732.3; 16-SEP-2008 21:19:56; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;34237
9; 1074.6; 16-SEP-2008 21:25:39; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;34237
10; 1530.0; 16-SEP-2008 21:33:14; Dark ; 53.5; 52; 16Bet Cet ; 2.04; 4500;occ; 107; 0;34237
11; 2176.7; 16-SEP-2008 21:44:01; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;34237
12; 2407.7; 16-SEP-2008 21:47:52; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;34237
13; 2525.2; 16-SEP-2008 21:49:49; Bright; 46.5; 58; 21Alp And ; 2.07; 11000;occ; 93; 0;34237
14; 3019.8; 16-SEP-2008 21:58:04; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;34237
15; 3125.5; 16-SEP-2008 21:59:50; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;34237

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4; -113.7; 16-SEP-2008 22:46:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34237
5; 34.0; 16-SEP-2008 22:48:54; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;34238
6; 647.0; 16-SEP-2008 22:59:07; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;34238
7; 732.8; 16-SEP-2008 23:00:33; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;34238
8; 1074.9; 16-SEP-2008 23:06:15; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;34238
9; 1530.0; 16-SEP-2008 23:13:50; Dark ; 56.0; 52; 16Bet Cet ; 2.04; 4500;occ; 112; 0;34238
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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
15; 4484.3; 16-SEP-2008 00:03:04; Bright; 45.5; 24; 66Alp Gem ; 1.58; 10200;occ; 91; 0;34238
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3; -337.2; 17-SEP-2008 00:23:19; Dark ; 49.5; 23; 21Eps CMA ; 1.50; 26000;occ; 99; 0;34238
4; -112.7; 17-SEP-2008 00:27:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34238
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
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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
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3; -336.5; 17-SEP-2008 02:03:55; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;34239
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
7; 733.8; 17-SEP-2008 02:21:46; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;34240
8; 1075.7; 17-SEP-2008 02:27:27; Dark ; 41.5; 84; Alp Phe ; 2.40; 4500;occ; 83; 0;34240
9; 1530.4; 17-SEP-2008 02:35:02; Dark ; 58.5; 52; 16Bet Cet ; 2.04; 4500;occ; 117; 0;34240
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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3; -576.8; 17-SEP-2008 03:40:31; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;34240
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
16; 3123.6; 17-SEP-2008 04:42:11; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;34241

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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
16; 3122.9; 17-SEP-2008 06:22:47; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 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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3; -99.2; 17-SEP-2008 23:55:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34252
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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3; -98.3; 18-SEP-2008 01:36:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34253
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
7; 44.9; 18-SEP-2008 03:19:16; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;34255
8; 655.2; 18-SEP-2008 03:29:26; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;34255
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3; -313.0; 18-SEP-2008 21:39:53; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;34265
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7; 3074.4; 23-SEP-2008 21:38:52; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;34337
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2; 1545.7; 24-SEP-2008 15:39:58; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;34348
3; 2167.0; 24-SEP-2008 15:50:20; Bright; 36.5; 90; 54Alp Peg ; 2.49; 11000;occ; 73; 0;34348
4; 2389.9; 24-SEP-2008 15:54:03; Bright; 37.0; 93; 53Bet Peg ; 2.52; 3100;occ; 74; 0;34348
5; 2977.3; 24-SEP-2008 16:03:50; Bright; 37.0; 74; 11Bet Cas ; 2.27; 6600;occ; 74; 0;34348
6; 3069.3; 24-SEP-2008 16:05:22; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34348
7; 4499.8; 24-SEP-2008 16:29:13; Bright; 50.5; 24; 66Alp Gem ; 1.58; 10200;occ; 101; 0;34348
8; 5086.0; 24-SEP-2008 16:38:59; Dark ; 62.0; 8; 10Alp CMi ; 0.40; 6500;occ; 124; 0;34348
9; 5522.7; 24-SEP-2008 16:46:16; Dark ; 45.0; 132; 15Rho Pup ; 2.80; 6900;occ; 90; 0;34348
10; 5718.8; 24-SEP-2008 16:49:32; Dark ; 48.0; 88; 31Eta CMA ; 2.45; 20000;occ; 96; 0;34348
11; 5806.2; 24-SEP-2008 16:50:59; Dark ; 53.0; 23; 21Eps CMA ; 1.50; 26000;occ; 106; 0;34348
12; 5933.3; 24-SEP-2008 16:53:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34348
13; 6061.0; 24-SEP-2008 16:55:14; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;34348
14; 6820.4; 24-SEP-2008 17:07:53; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;34348
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4; 2390.0; 24-SEP-2008 17:34:39; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;34349
5; 2976.9; 24-SEP-2008 17:44:26; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34349
6; 3068.9; 24-SEP-2008 17:45:58; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;34349
7; 4500.0; 24-SEP-2008 18:09:49; Bright; 51.5; 24; 66Alp Gem ; 1.58; 10200;occ; 103; 0;34349
8; 5086.8; 24-SEP-2008 18:19:36; Dark ; 73.0; 8; 10Alp CMi ; 0.40; 6500;occ; 146; 0;34349
9; 5523.2; 24-SEP-2008 18:26:52; Dark ; 43.5; 132; 15Rho Pup ; 2.80; 6900;occ; 87; 0;34349
10; 5719.9; 24-SEP-2008 18:30:09; Dark ; 43.5; 88; 31Eta CMA ; 2.45; 20000;occ; 87; 0;34349
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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
4; 2389.8; 24-SEP-2008 19:15:15; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 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
7; 4500.1; 24-SEP-2008 19:50:25; Bright; 49.5; 24; 66Alp Gem ; 1.58; 10200;occ; 99; 0;34350
8; 5087.5; 24-SEP-2008 20:00:12; Dark ; 67.5; 8; 10Alp CMi ; 0.40; 6500;occ; 135; 0;34350
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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3; -99.4; 25-SEP-2008 01:16:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34353
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
8; 2166.7; 25-SEP-2008 01:53:55; Bright; 35.5; 90; 54Alp Peg ; 2.49; 11000;occ; 71; 0;34354
9; 2389.4; 25-SEP-2008 01:57:38; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;34354
10; 2975.3; 25-SEP-2008 02:07:24; Bright; 35.5; 74; 11Bet Cas ; 2.27; 6600;occ; 71; 0;34354
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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3; -311.8; 25-SEP-2008 02:53:13; Dark ; 48.0; 88; 31Eta CMA ; 2.45; 20000;occ; 96; 0;34354
4; -223.2; 25-SEP-2008 02:54:41; Dark ; 53.0; 23; 21Eps CMA ; 1.50; 26000;occ; 106; 0;34354
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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11; 2389.4; 25-SEP-2008 03:38:14; Bright; 36.0; 93; 53Bet Peg ; 2.52; 3100;occ; 72; 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
9; 1117.4; 25-SEP-2008 04:57:38; Dark ; 41.5; 84; Alp Phe ; 2.40; 4500;occ; 83; 0;34356
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11; 2166.8; 25-SEP-2008 05:15:07; Bright; 36.0; 90; 54Alp Peg ; 2.49; 11000;occ; 72; 0;34356
12; 2389.4; 25-SEP-2008 05:18:50; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;34356
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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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
9; 1117.7; 25-SEP-2008 06:38:14; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 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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 4; -211.2; 25-SEP-2008 21:21:29; Dark ; 49.5; 23; 21Eps CMA ; 1.50; 26000;occ; 99; 0;34365
 5; -91.3; 25-SEP-2008 21:23:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34365
 6; 36.6; 25-SEP-2008 21:25:36; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;34366
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 8; 1120.5; 25-SEP-2008 21:43:40; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;34366
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13; 4584.0; 26-SEP-2008 00:22:00; Bright; 52.5; 17; 78Bet Gem ; 1.16; 4500;occ; 105; 0;34367
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 8; 788.2; 25-SEP-2008 08:13:21; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;34358
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 3; 2974.0; 25-SEP-2008 08:49:46; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34358
 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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 6; 5093.9; 25-SEP-2008 09:25:06; Dark ; 74.0; 8; 10Alp CMI ; 0.40; 6500;occ; 148; 0;34358
 7; 5529.3; 25-SEP-2008 09:32:22; Dark ; 42.0; 132; 15Rho Pup ; 2.80; 6900;occ; 84; 0;34358
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12; 6824.6; 25-SEP-2008 09:53:57; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;34358
13; 7154.2; 25-SEP-2008 09:59:27; Dark ; 40.0; 84; Alp Phe ; 2.40; 4500;occ; 80; 0;34358

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3; 2973.6; 25-SEP-2008 10:30:22; Bright; 37.0; 74; 11Bet Cas ; 2.27; 6600;occ; 74; 0;34359
4; 3064.2; 25-SEP-2008 10:31:52; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;34359
5; 4501.3; 25-SEP-2008 10:55:50; Bright; 35.0; 24; 66Alp Gem ; 1.58; 10200;occ; 70; 0;34359
6; 5094.6; 25-SEP-2008 11:05:43; Dark ; 66.0; 8; 10Alp CMi ; 0.40; 6500;occ; 132; 0;34359
7; 5529.9; 25-SEP-2008 11:12:58; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;34359
8; 5728.7; 25-SEP-2008 11:16:17; Dark ; 44.0; 88; 31Eta CMa ; 2.45; 20000;occ; 88; 0;34359
9; 5818.0; 25-SEP-2008 11:17:46; Dark ; 52.5; 23; 21Eps CMa ; 1.50; 26000;occ; 105; 0;34359
10; 5940.5; 25-SEP-2008 11:19:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34359
11; 6068.5; 25-SEP-2008 11:21:57; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;34359
12; 6824.9; 25-SEP-2008 11:34:33; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;34359
13; 7154.7; 25-SEP-2008 11:40:03; Dark ; 39.0; 84; Alp Phe ; 2.40; 4500;occ; 78; 0;34359
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3; 2388.9; 25-SEP-2008 12:01:13; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;34360
4; 2973.3; 25-SEP-2008 12:10:57; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;34360
5; 3063.9; 25-SEP-2008 12:12:28; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;34360
6; 4501.4; 25-SEP-2008 12:36:25; Bright; 27.0; 24; 66Alp Gem ; 1.58; 10200;occ; 54; 0;34360
7; 5095.4; 25-SEP-2008 12:46:19; Dark ; 67.0; 8; 10Alp CMi ; 0.40; 6500;occ; 134; 0;34360
8; 5530.6; 25-SEP-2008 12:53:35; Dark ; 41.5; 132; 15Rho Pup ; 2.80; 6900;occ; 83; 0;34360
9; 5729.7; 25-SEP-2008 12:56:54; Dark ; 47.5; 88; 31Eta CMa ; 2.45; 20000;occ; 95; 0;34360
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11; 5941.2; 25-SEP-2008 13:00:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34360
12; 6069.1; 25-SEP-2008 13:02:33; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;34360
13; 6825.4; 25-SEP-2008 13:15:09; Dark ; 47.0; 9; Alp Eri ; 0.45; 24000;occ; 94; 0;34360
14; 7154.9; 25-SEP-2008 13:20:39; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;34360
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7; 5096.2; 25-SEP-2008 14:26:56; Dark ; 61.5; 8; 10Alp CMi ; 0.40; 6500;occ; 123; 0;34361
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10; 5820.4; 25-SEP-2008 14:39:00; Dark ; 47.5; 23; 21Eps CMa ; 1.50; 26000;occ; 95; 0;34361
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13; 6825.9; 25-SEP-2008 14:55:46; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;34361
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3; 2388.9; 25-SEP-2008 15:22:25; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;34362
4; 2972.8; 25-SEP-2008 15:32:09; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;34362
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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4; 2972.3; 25-SEP-2008 17:12:44; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;34363
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6; 5097.9; 25-SEP-2008 17:48:10; Dark ; 65.0; 8; 10Alp CMI ; 0.40; 6500;occ; 130; 0;34363
7; 5532.7; 25-SEP-2008 17:55:25; Dark ; 42.0; 132; 15Rho Pup ; 2.80; 6900;occ; 84; 0;34363
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9; 5822.6; 25-SEP-2008 18:00:15; Dark ; 54.0; 23; 21Eps CMA ; 1.50; 26000;occ; 108; 0;34363
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6; 3062.0; 25-SEP-2008 18:54:50; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34364
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9; 5733.4; 25-SEP-2008 19:39:21; Dark ; 46.0; 88; 31Eta CMA ; 2.45; 20000;occ; 92; 0;34364
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11; 5944.0; 25-SEP-2008 19:42:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34364
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6; 1548.2; 26-SEP-2008 01:12:00; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;34368
7; 2166.5; 26-SEP-2008 01:22:18; Bright; 36.0; 90; 54Alp Peg ; 2.49; 11000;occ; 72; 0;34368
8; 2388.3; 26-SEP-2008 01:26:00; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;34368
9; 2970.7; 26-SEP-2008 01:35:42; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34368
10; 3060.0; 26-SEP-2008 01:37:12; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;34368
11; 4584.4; 26-SEP-2008 02:02:36; Bright; 71.0; 17; 78Bet Gem ; 1.16; 4500;occ; 142; 0;34368
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4; 38.7; 26-SEP-2008 02:27:26; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;34369
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6; 1121.5; 26-SEP-2008 02:45:29; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;34369
7; 1548.4; 26-SEP-2008 02:52:36; Dark ; 50.0; 52; 16Bet Cet ; 2.04; 4500;occ; 100; 0;34369
8; 2166.6; 26-SEP-2008 03:02:54; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;34369
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4; -297.8; 26-SEP-2008 04:02:26; Dark ; 45.5; 88; 31Eta CMA ; 2.45; 20000;occ; 91; 0;34369
5; -206.6; 26-SEP-2008 04:03:57; Dark ; 50.0; 23; 21Eps CMA ; 1.50; 26000;occ; 100; 0;34369
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7; 40.9; 26-SEP-2008 07:29:16; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;34372
8; 866.4; 26-SEP-2008 07:43:02; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;34372
9; 1122.6; 26-SEP-2008 07:47:18; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;34372
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3; 2969.6; 26-SEP-2008 08:18:05; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34372
4; 3058.5; 26-SEP-2008 08:19:34; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;34372
5; 4585.4; 26-SEP-2008 08:45:01; Bright; 53.5; 17; 78Bet Gem ; 1.16; 4500;occ; 107; 0;34372
6; 5105.3; 26-SEP-2008 08:53:41; Dark ; 28.0; 8; 10Alp CMi ; 0.40; 6500;occ; 56; 0;34372
7; 5539.0; 26-SEP-2008 09:00:54; Dark ; 43.0; 132; 15Rho Pup ; 2.80; 6900;occ; 86; 0;34372
8; 5740.9; 26-SEP-2008 09:04:16; Dark ; 45.5; 88; 31Eta CMA ; 2.45; 20000;occ; 91; 0;34372
9; 5832.8; 26-SEP-2008 09:05:48; Dark ; 51.5; 23; 21Eps CMA ; 1.50; 26000;occ; 103; 0;34372
10; 5949.5; 26-SEP-2008 09:07:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34372
11; 6077.5; 26-SEP-2008 09:09:53; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;34372
12; 6903.2; 26-SEP-2008 09:23:39; Dark ; 51.5; 157; The1Eri ; 2.91; 9300;occ; 103; 0;34372
13; 7158.8; 26-SEP-2008 09:27:54; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;34372
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3; 2969.2; 26-SEP-2008 09:58:40; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;34373
4; 3058.1; 26-SEP-2008 10:00:09; Bright; 56.5; 76; 27Gam Cas ; 2.30; 30000;occ; 113; 0;34373
5; 4585.7; 26-SEP-2008 10:25:37; Bright; 53.0; 17; 78Bet Gem ; 1.16; 4500;occ; 106; 0;34373
6; 5106.2; 26-SEP-2008 10:34:17; Dark ; 28.0; 8; 10Alp CMi ; 0.40; 6500;occ; 56; 0;34373
7; 5539.7; 26-SEP-2008 10:41:31; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;34373
8; 5741.9; 26-SEP-2008 10:44:53; Dark ; 47.5; 88; 31Eta CMA ; 2.45; 20000;occ; 95; 0;34373
9; 5833.8; 26-SEP-2008 10:46:25; Dark ; 52.5; 23; 21Eps CMA ; 1.50; 26000;occ; 105; 0;34373
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11; 6078.1; 26-SEP-2008 10:50:29; Dark ; 48.5; 161; Tau Pup ; 2.93; 4500;occ; 97; 0;34373
12; 6903.8; 26-SEP-2008 11:04:15; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;34373
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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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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7; 5742.9; 26-SEP-2008 12:25:30; Dark ; 47.0; 88; 31Eta CMA ; 2.45; 20000;occ; 94; 0;34374
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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
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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
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12; 6081.1; 26-SEP-2008 17:32:56; Dark ; 44.5; 161; Tau Pup ; 2.93; 4500;occ; 89; 0;34377
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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
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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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4; 2053.1; 27-SEP-2008 07:31:11; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
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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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3; 1947.4; 27-SEP-2008 09:10:02; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
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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
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 13; 2953.8; 30-SEP-2008 02:50:09; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;34426
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13; 5742.2; 30-SEP-2008 18:42:01; Dark ; 41.5; 65; Lam Vel ; 2.20; 4400;occ; 83; 0;34435
14; 5897.6; 30-SEP-2008 18:44:37; Dark ; 40.0; 34; Gam2Vel ; 1.79; 23000;occ; 80; 0;34435
15; 5994.7; 30-SEP-2008 18:46:14; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;34435
16; 6123.2; 30-SEP-2008 18:48:22; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;34435
17; 6207.4; 30-SEP-2008 18:49:46; Dark ; 45.5; 2; Alp Car ; -0.74; 7000;occ; 91; 0;34435
18; 6768.4; 30-SEP-2008 18:59:07; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;34435
19; 6856.1; 30-SEP-2008 19:00:35; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;34435
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2; 1557.7; 30-SEP-2008 19:12:53; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;34436
3; 2167.9; 30-SEP-2008 19:23:03; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;34436
4; 2386.2; 30-SEP-2008 19:26:41; Bright; 35.0; 93; 53Bet Peg ; 2.52; 3100;occ; 70; 0;34436
5; 2951.2; 30-SEP-2008 19:36:06; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;34436
6; 3031.7; 30-SEP-2008 19:37:27; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34436
7; 3428.6; 30-SEP-2008 19:44:04; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;34436
8; 3905.7; 30-SEP-2008 19:52:01; Bright; 36.5; 36; 50Alp UMA ; 1.80; 6300;occ; 73; 0;34436
9; 3995.8; 30-SEP-2008 19:53:31; Bright; 35.5; 82; 48Bet UMA ; 2.37; 10600;occ; 71; 0;34436
10; 4588.0; 30-SEP-2008 20:03:23; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;34436
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12; 5742.5; 30-SEP-2008 20:22:38; Dark ; 43.5; 65; Lam Vel ; 2.20; 4400;occ; 87; 0;34436
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16; 6208.1; 30-SEP-2008 20:30:23; Dark ; 57.5; 2; Alp Car ; -0.74; 7000;occ; 115; 0;34436
17; 6768.6; 30-SEP-2008 20:39:44; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;34436
18; 6856.3; 30-SEP-2008 20:41:11; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;34436

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