

GOMOS Daily Report 14-AUG-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	16AUG2008 05:33:09
Data source version	GOMOS/5.00
Start time of products	14AUG2008 00:04:39
Stop time of products	14AUG2008 04:15:52
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

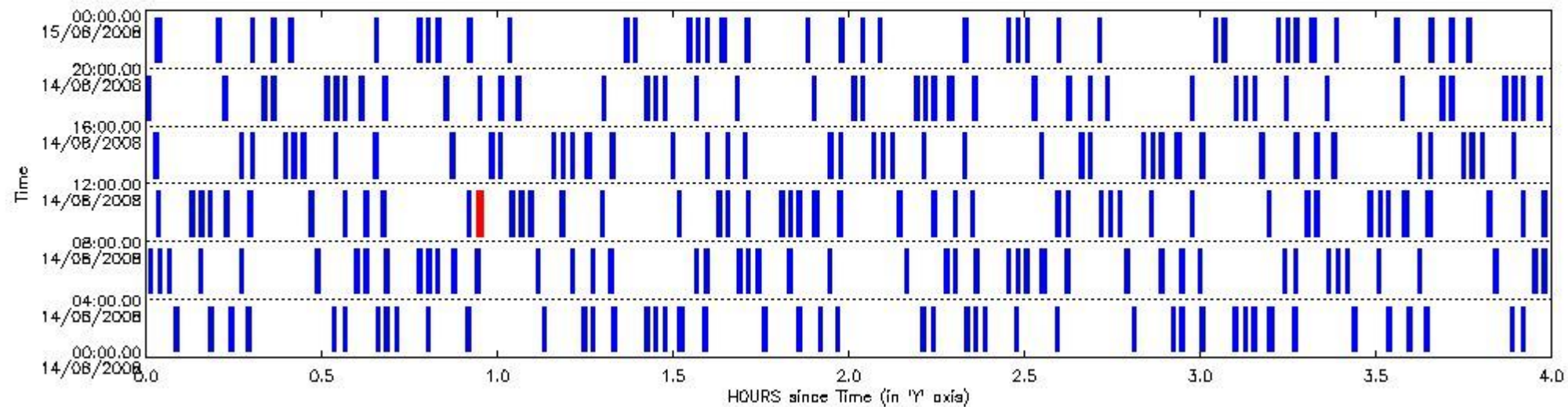
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

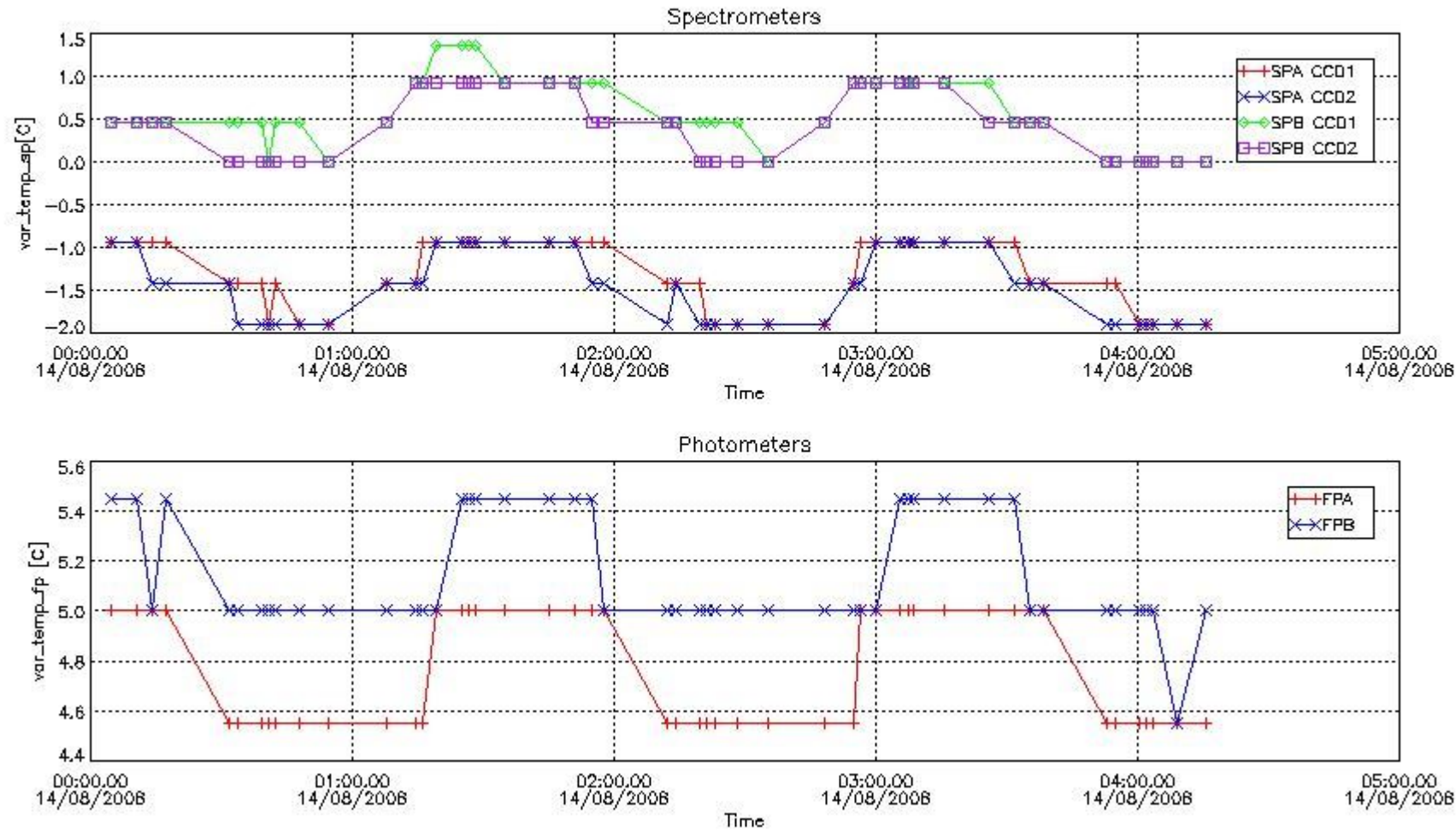
UTC start time	Star name	Star ID	Orbit
14-AUG-2008 08:56:31	17ZetAql	168	33757

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_1PNPDE20080814_000439_000000462071_00131_33752_0394.N1	14-AUG-2008 00:04:39	Dark	46.000	9	Alp Eri	0.45300	24000.	92	33752	No
2	GOM_TRA_1PNPDE20080814_001034_000000462071_00131_33752_0395.N1	14-AUG-2008 00:10:34	Straylight	46.000	148	Alp Tuc	2.8780	4100.0	92	33752	No
3	GOM_TRA_1PNPDE20080814_001406_000000412071_00131_33752_0396.N1	14-AUG-2008 00:14:06	Straylight	41.000	31	Alp Gru	1.7340	15200.	82	33752	No
4	GOM_TRA_1PNPDE20080814_001706_000000412071_00131_33752_0397.N1	14-AUG-2008 00:17:06	Straylight	41.000	172	Gam Gru	3.0030	13100.	82	33752	No
5	GOM_TRA_1PNPDE20080814_003144_000000382071_00131_33752_0398.N1	14-AUG-2008 00:31:44	Bright	38.000	11	53Alp Aql	0.76500	8000.0	76	33752	No
6	GOM_TRA_1PNPDE20080814_003332_000000362071_00131_33752_0399.N1	14-AUG-2008 00:33:32	Bright	36.000	168	17Zet Aql	2.9860	11000.	72	33752	No
7	GOM_TRA_1PNPDE20080814_003910_000000372071_00131_33752_0400.N1	14-AUG-2008 00:39:10	Bright	36.500	92	53Eps Cyg	2.5000	4500.0	73	33752	No
8	GOM_TRA_1PNPDE20080814_004043_000000372071_00131_33752_0401.N1	14-AUG-2008 00:40:43	Bright	37.000	66	37Gam Cyg	2.2080	5900.0	74	33752	No
9	GOM_TRA_1PNPDE20080814_004222_000000362071_00131_33752_0402.N1	14-AUG-2008 00:42:22	Bright	36.000	19	50Alp Cyg	1.2460	10500.	72	33752	No
10	GOM_TRA_1PNPDE20080814_004745_000000372071_00131_33752_0403.N1	14-AUG-2008 00:47:45	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	33752	No

11	GOM_TRA_1PNPDE20080814_005440_000000352071_00131_33752_0404.N1	14-AUG-2008 00:54:40	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	33752	No
12	GOM_TRA_1PNPDE20080814_010742_000000362071_00131_33752_0405.N1	14-AUG-2008 01:07:42	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	33752	No
13	GOM_TRA_1PNPDE20080814_011422_000000452071_00131_33752_0406.N1	14-AUG-2008 01:14:22	Twilight	45.000	151	13Mu Gem	2.8900	3000.0	90	33752	No
14	GOM_TRA_1PNPDE20080814_011557_000000422071_00131_33752_0407.N1	14-AUG-2008 01:15:57	Twilight	41.500	44	24Gam Gem	1.9280	11000.	83	33752	No
15	GOM_TRA_1PNPDE20080814_011923_000000582071_00131_33752_0408.N1	14-AUG-2008 01:19:23	Dark	58.000	14	58Alp Ori	0.87000	3000.0	116	33752	No
16	GOM_TRA_1PNPDE20080814_012503_000000482071_00131_33752_0546.N1	14-AUG-2008 01:25:03	Dark	48.000	1	9Alp CMa	-1.4400	11000.	96	33752	No
17	GOM_TRA_1PNPDE20080814_012642_000000382071_00131_33752_0547.N1	14-AUG-2008 01:26:42	Dark	38.000	179	24Omi2CMa	3.0320	24000.	76	33752	No
18	GOM_TRA_1PNPDE20080814_012810_000000412071_00131_33752_0548.N1	14-AUG-2008 01:28:10	Dark	41.000	23	21Eps CMa	1.5020	26000.	82	33752	No
19	GOM_TRA_1PNPDE20080814_013459_000000522071_00131_33752_0549.N1	14-AUG-2008 01:34:59	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	33752	No
20	GOM_TRA_1PNPDE20080814_014516_000000442071_00132_33753_0550.N1	14-AUG-2008 01:45:16	Dark	44.000	9	Alp Eri	0.45300	24000.	88	33753	No
21	GOM_TRA_1PNPDE20080814_015110_000000402071_00132_33753_0551.N1	14-AUG-2008 01:51:10	Straylight	40.000	148	Alp Tuc	2.8780	4100.0	80	33753	No
22	GOM_TRA_1PNPDE20080814_015443_000000432071_00132_33753_0552.N1	14-AUG-2008 01:54:43	Straylight	42.500	31	Alp Gru	1.7340	15200.	85	33753	No
23	GOM_TRA_1PNPDE20080814_015742_000000412071_00132_33753_0553.N1	14-AUG-2008 01:57:42	Straylight	40.500	172	Gam Gru	3.0030	13100.	81	33753	No
24	GOM_TRA_1PNPDE20080814_021220_000000392071_00132_33753_0554.N1	14-AUG-2008 02:12:20	Bright	38.500	11	53Alp Aql	0.76500	8000.0	77	33753	No
25	GOM_TRA_1PNPDE20080814_021408_000000362071_00132_33753_0555.N1	14-AUG-2008 02:14:08	Bright	35.500	168	17Zet Aql	2.9860	11000.	71	33753	No
26	GOM_TRA_1PNPDE20080814_021946_000000392071_00132_33753_0556.N1	14-AUG-2008 02:19:46	Bright	39.000	92	53Eps Cyg	2.5000	4500.0	78	33753	No
27	GOM_TRA_1PNPDE20080814_022119_000000382071_00132_33753_0557.N1	14-AUG-2008 02:21:19	Bright	37.500	66	37Gam Cyg	2.2080	5900.0	75	33753	No
28	GOM_TRA_1PNPDE20080814_022258_000000382071_00132_33753_0558.N1	14-AUG-2008 02:22:58	Bright	37.500	19	50Alp Cyg	1.2460	10500.	75	33753	No
29	GOM_TRA_1PNPDE20080814_022820_000000372071_00132_33753_0559.N1	14-AUG-2008 02:28:20	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	33753	No
30	GOM_TRA_1PNPDE20080814_023516_000000362071_00132_33753_0560.N1	14-AUG-2008 02:35:16	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	33753	No
31	GOM_TRA_1PNPDE20080814_024818_000000372071_00132_33753_0709.N1	14-AUG-2008 02:48:18	Bright	37.000	42	34Bet Aur	1.9000	10200.	74	33753	No
32	GOM_TRA_1PNPDE20080814_025458_000000462071_00132_33753_0710.N1	14-AUG-2008 02:54:58	Twilight	45.500	151	13Mu Gem	2.8900	3000.0	91	33753	No
33	GOM_TRA_1PNPDE20080814_025633_000000422071_00132_33753_0711.N1	14-AUG-2008 02:56:33	Twilight	41.500	44	24Gam Gem	1.9280	11000.	83	33753	No
34	GOM_TRA_1PNPDE20080814_025959_000000502071_00132_33753_0712.N1	14-AUG-2008 02:59:59	Dark	49.500	14	58Alp Ori	0.87000	3000.0	99	33753	No
35	GOM_TRA_1PNPDE20080814_030539_000000432071_00132_33753_0713.N1	14-AUG-2008 03:05:39	Dark	43.000	1	9Alp CMa	-1.4400	11000.	86	33753	No
36	GOM_TRA_1PNPDE20080814_030719_000000382071_00132_33753_0714.N1	14-AUG-2008 03:07:19	Dark	37.500	179	24Omi2CMa	3.0320	24000.	75	33753	No
37	GOM_TRA_1PNPDE20080814_030846_000000402071_00132_33753_0715.N1	14-AUG-2008 03:08:46	Dark	40.000	23	21Eps CMa	1.5020	26000.	80	33753	No
38	GOM_TRA_1PNPDE20080814_031535_000000482071_00132_33753_0716.N1	14-AUG-2008 03:15:35	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	33753	No
39	GOM_TRA_1PNPDE20080814_032553_000000462071_00133_33754_0717.N1	14-AUG-2008 03:25:53	Dark	46.000	9	Alp Eri	0.45300	24000.	92	33754	No
40	GOM_TRA_1PNPDE20080814_033146_000000422071_00133_33754_0718.N1	14-AUG-2008 03:31:46	Straylight	42.000	148	Alp Tuc	2.8780	4100.0	84	33754	No
41	GOM_TRA_1PNPDE20080814_033519_000000412071_00133_33754_0719.N1	14-AUG-2008 03:35:19	Straylight	41.000	31	Alp Gru	1.7340	15200.	82	33754	No
42	GOM_TRA_1PNPDE20080814_033818_000000412071_00133_33754_0720.N1	14-AUG-2008 03:38:18	Straylight	40.500	172	Gam Gru	3.0030	13100.	81	33754	No
43	GOM_TRA_1PNPDE20080814_035256_000000362071_00133_33754_0721.N1	14-AUG-2008 03:52:56	Bright	35.500	11	53Alp Aql	0.76500	8000.0	71	33754	No
44	GOM_TRA_1PNPDE20080814_035445_000000362071_00133_33754_0722.N1	14-AUG-2008 03:54:45	Bright	35.500	168	17Zet Aql	2.9860	11000.	71	33754	No
45	GOM_TRA_1PNPDE20080814_040021_000000402071_00133_33754_0723.N1	14-AUG-2008 04:00:21	Bright	39.500	92	53Eps Cyg	2.5000	4500.0	79	33754	No
46	GOM_TRA_1PNPDE20080814_040154_000000362071_00133_33754_0724.N1	14-AUG-2008 04:01:54	Bright	35.500	66	37Gam Cyg	2.2080	5900.0	71	33754	No
47	GOM_TRA_1PNPDE20080814_040334_000000392071_00133_33754_0725.N1	14-AUG-2008 04:03:34	Bright	39.000	19	50Alp Cyg	1.2460	10500.	78	33754	No
48	GOM_TRA_1PNPDE20080814_040856_000000352071_00133_33754_0726.N1	14-AUG-2008 04:08:56	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	33754	No
49	GOM_TRA_1PNPDE20080814_041552_000000372071_00133_33754_0727.N1	14-AUG-2008 04:15:52	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	33754	No

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



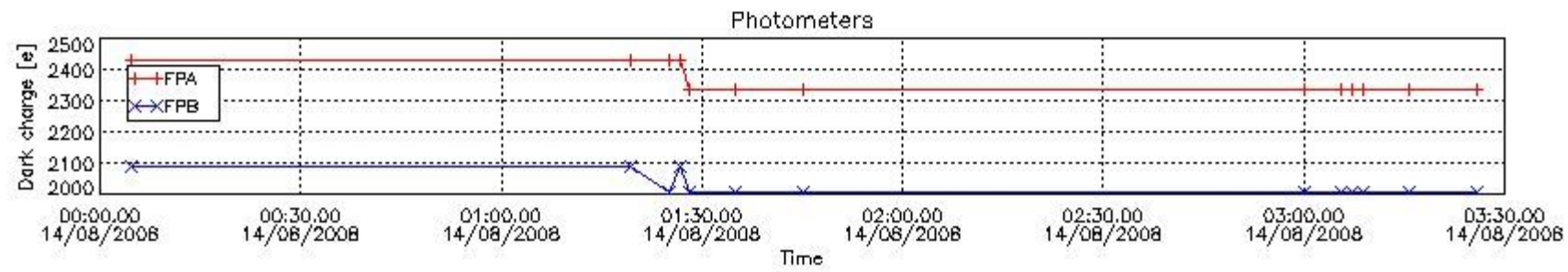
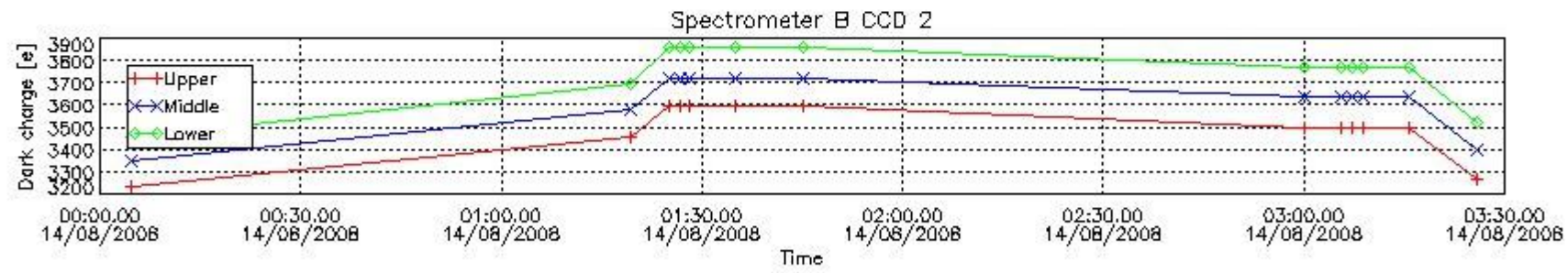
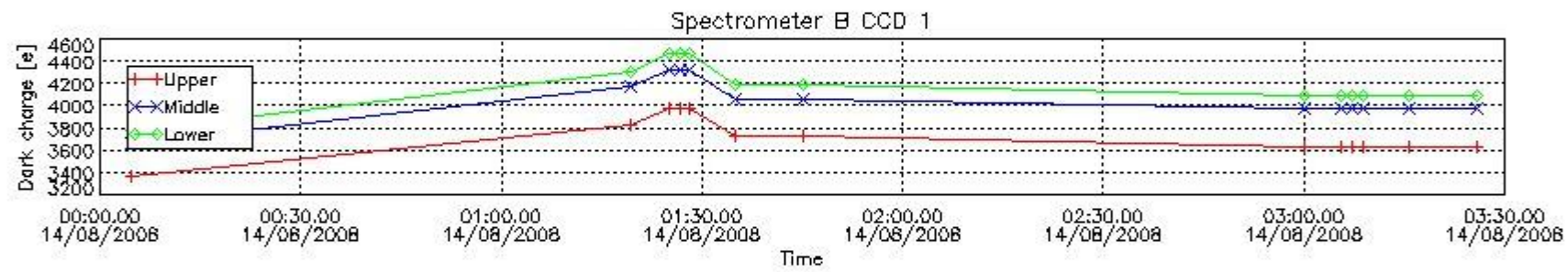
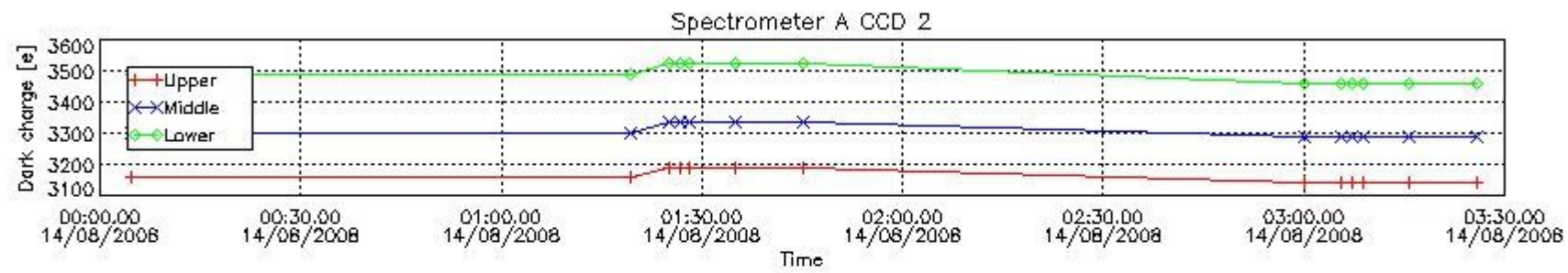
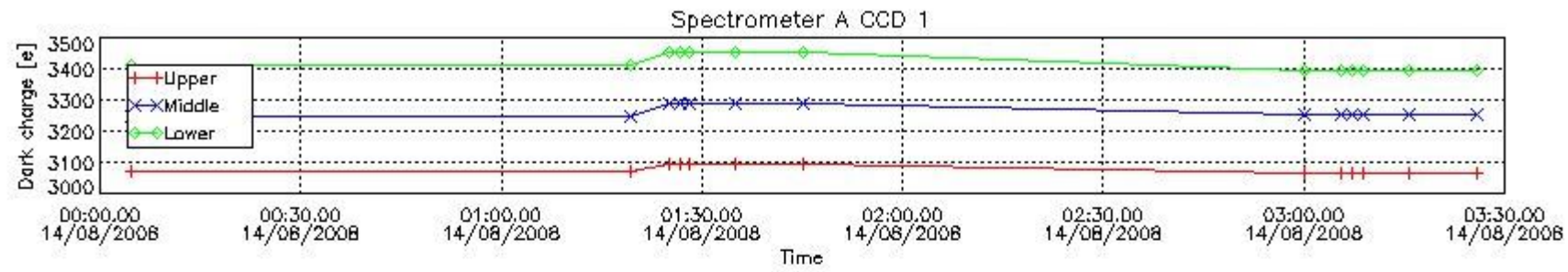
4. Overview of dark signal processing per product

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

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

4.1 All products used the DSA observation for the DC computation

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



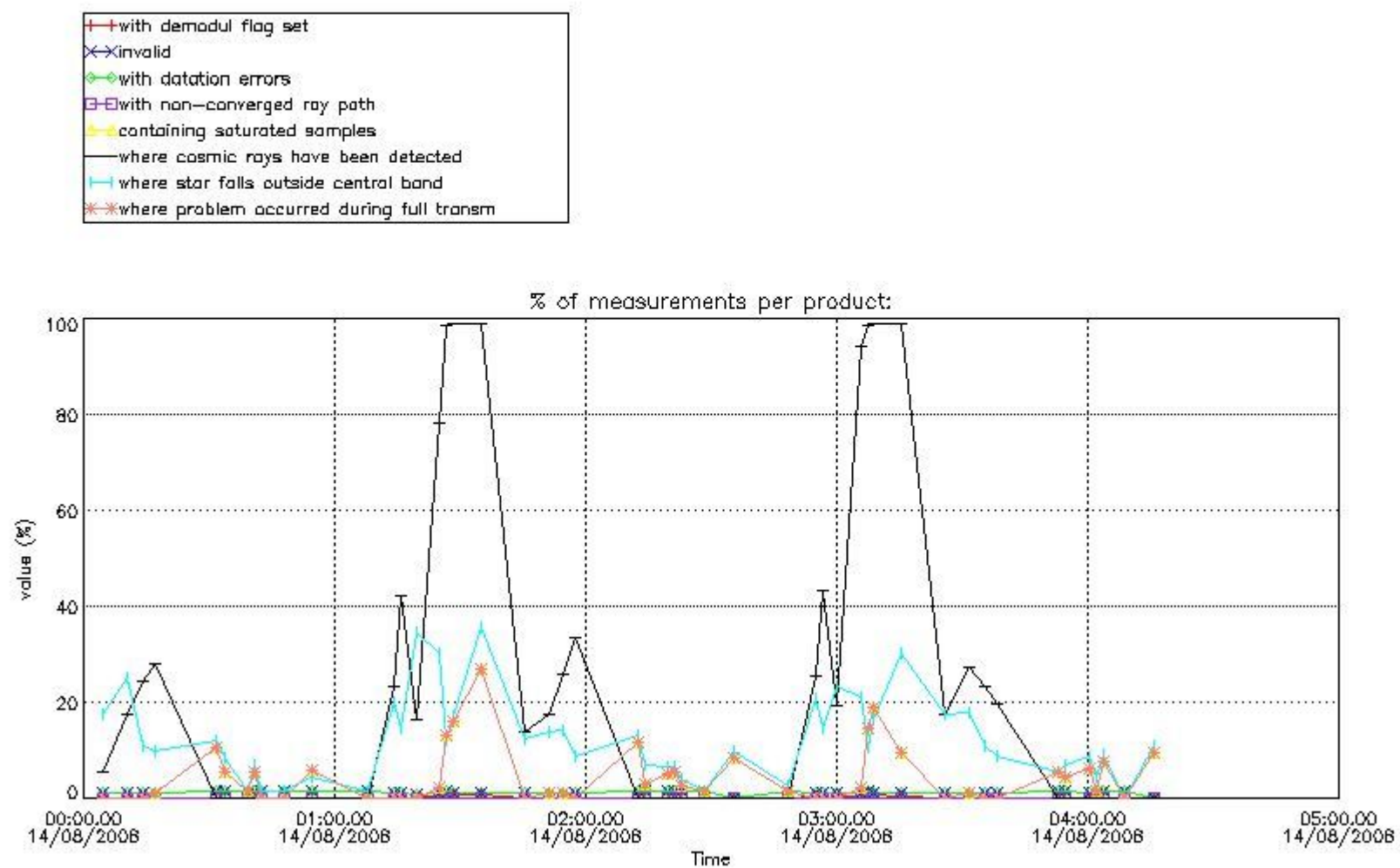
5. Demodulation flag and quality information monitoring

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

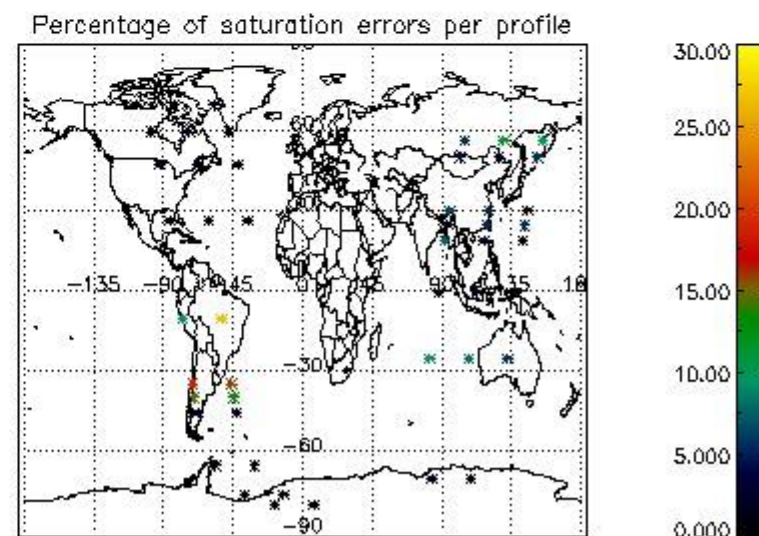
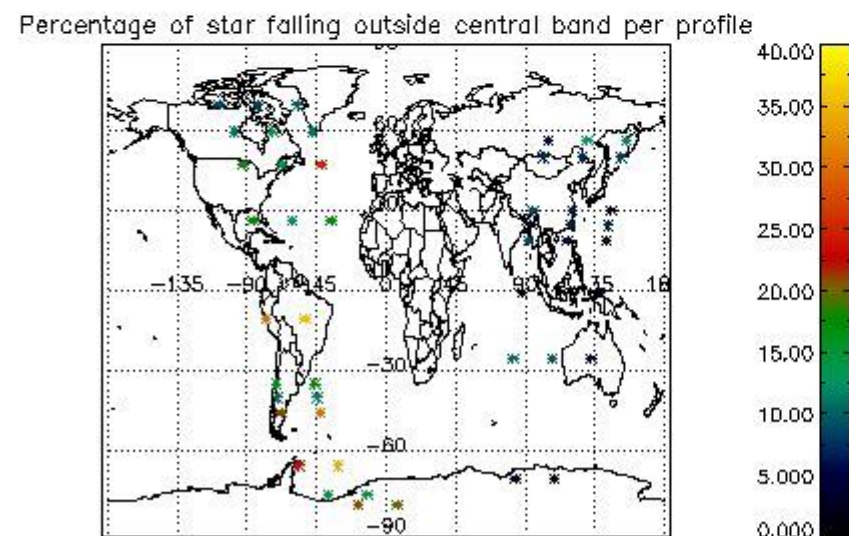
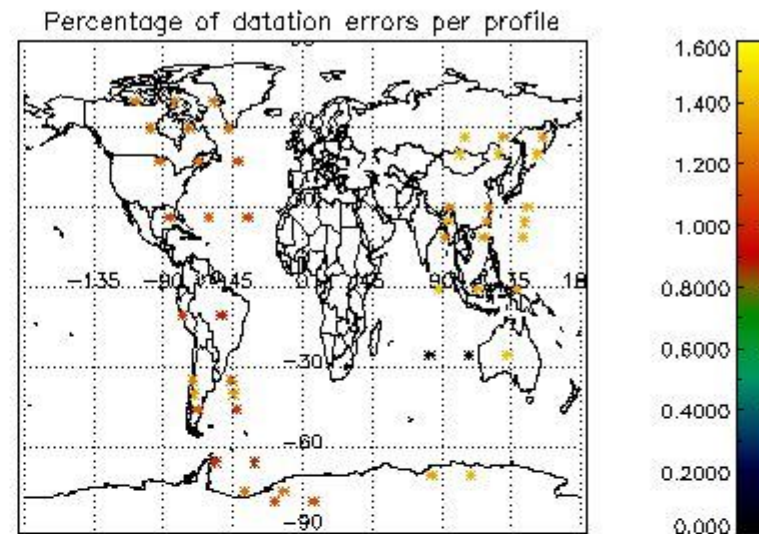
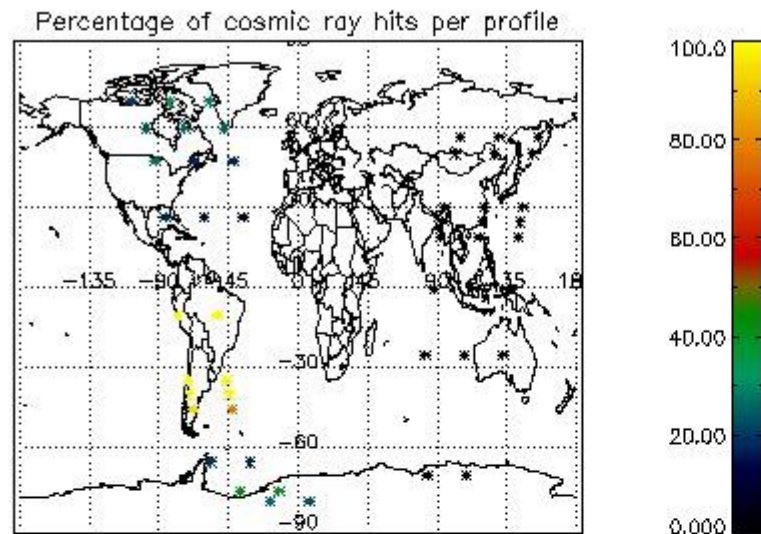
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	32.6531 %
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)



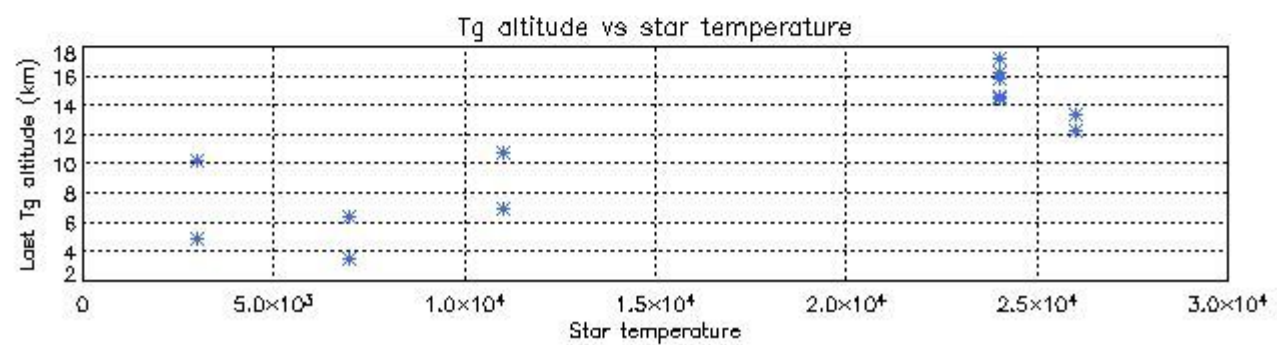
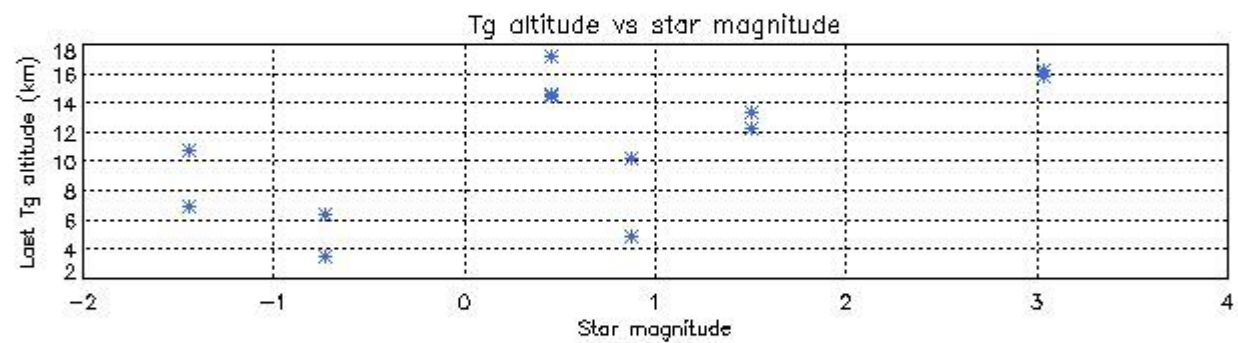
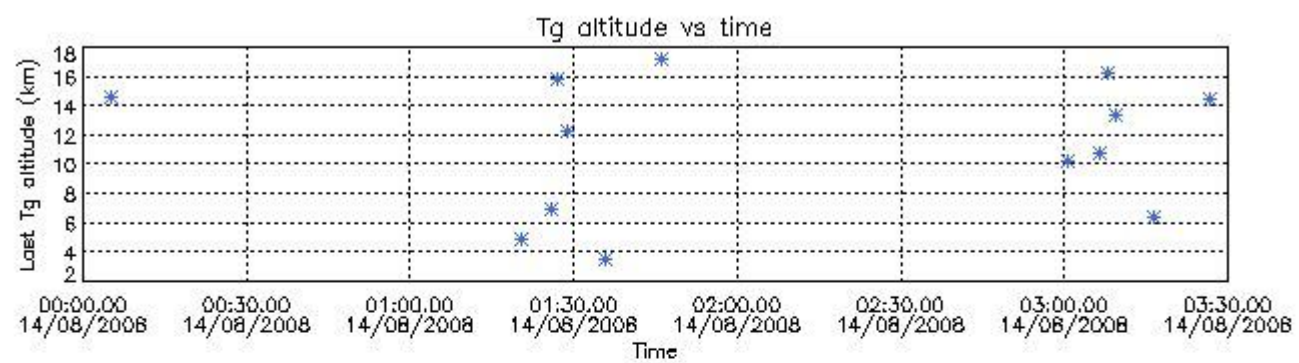
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	11.257	21.685	NaN
St. deviation:	4.5862	3.0691	NaN
Maximum:	17.131	27.878	NaN
Minimum:	3.4760	15.962	NaN
Number of data:	13.000	23.000	NaN

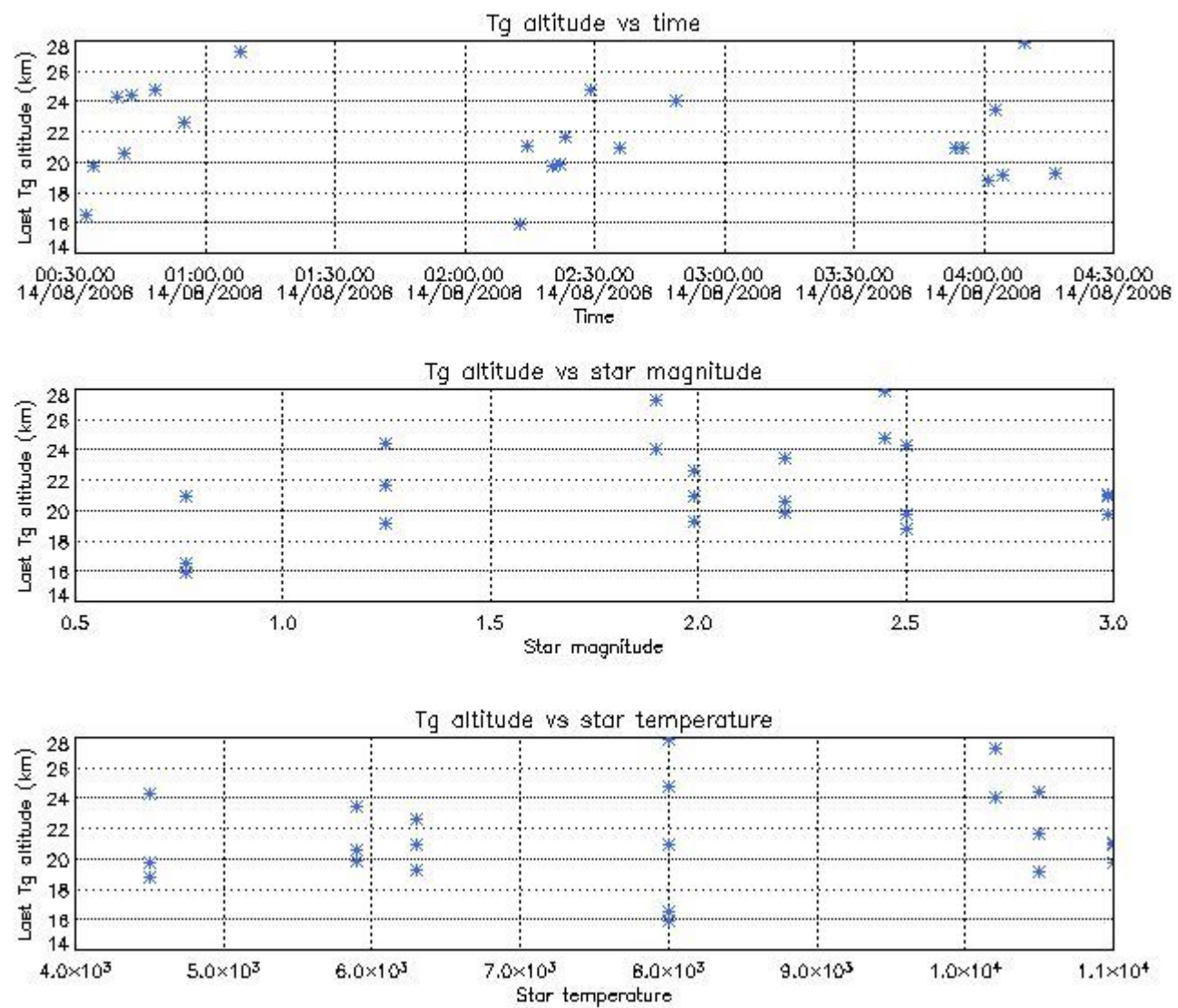
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

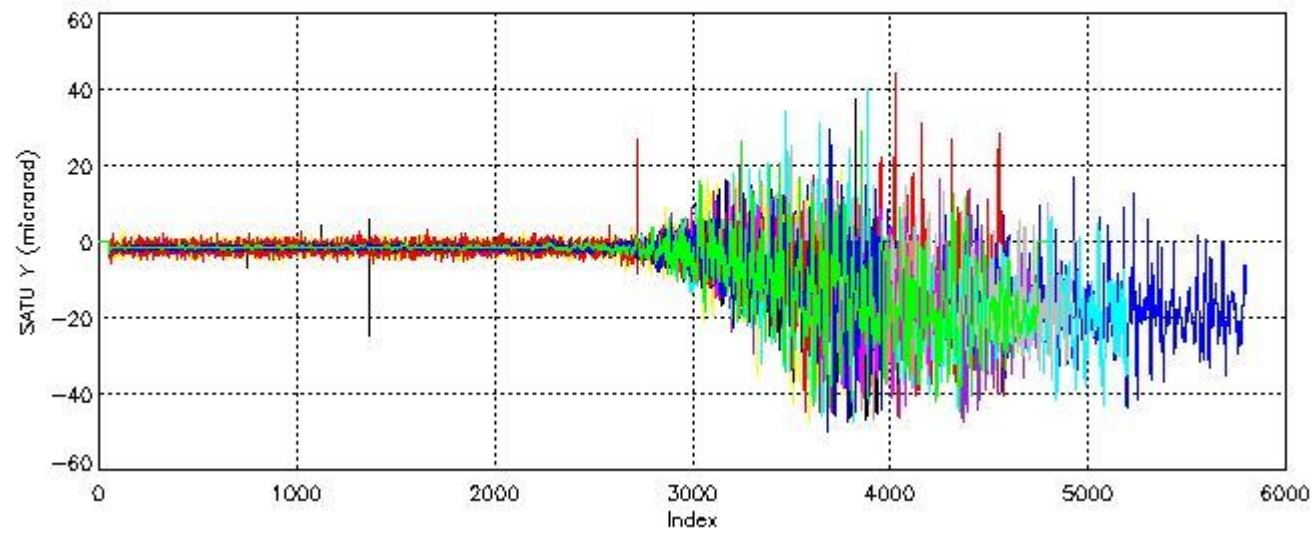
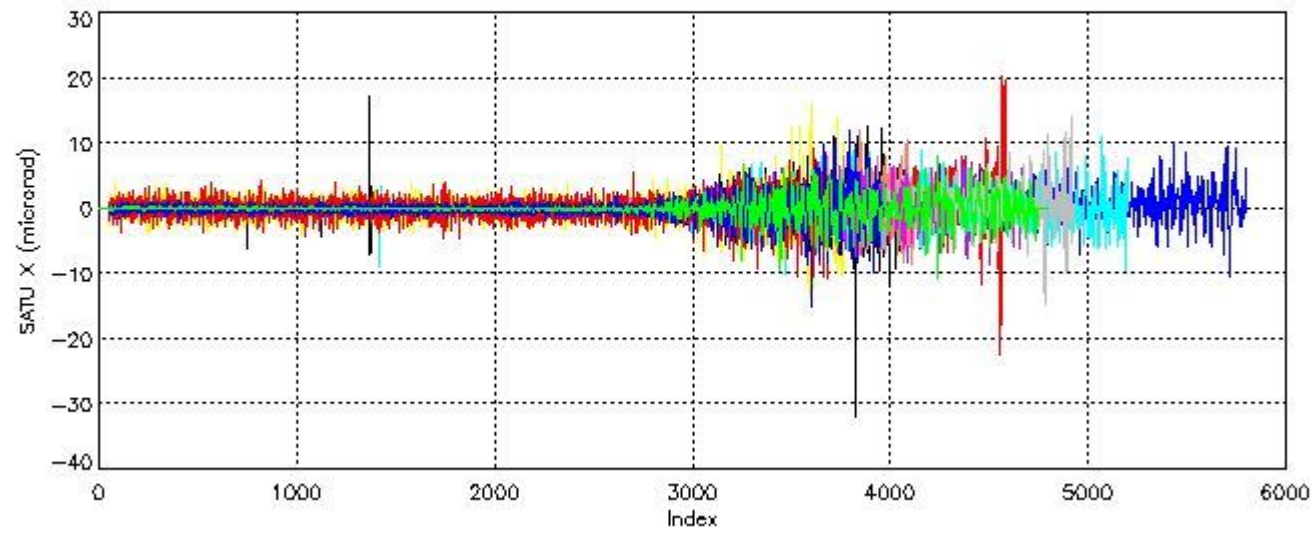


7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.014698	-1.4249	0.10562	-1.3078
St. deviation:	0.37232	0.57931	0.65887	0.75128
Maximum:	4.0000	2.6000	6.4000	3.5000
Minimum:	-6.3000	-6.9000	-6.6000	-6.9000

Number of data:	11600.	11600.	19450.	19450.
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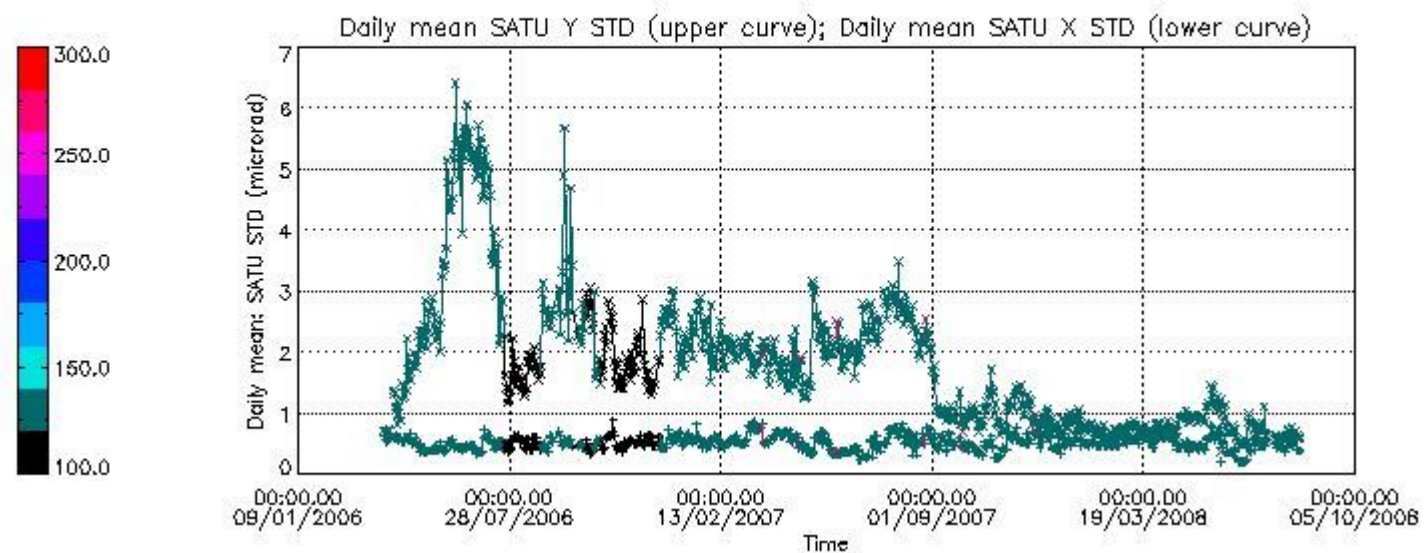
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

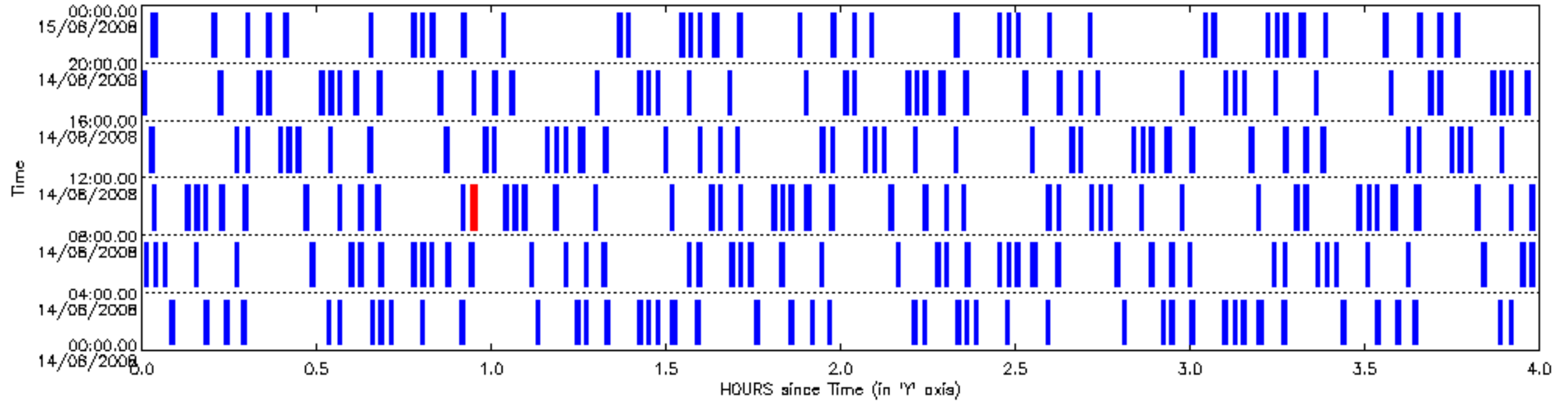
Lower curve: STD of SATU X axis

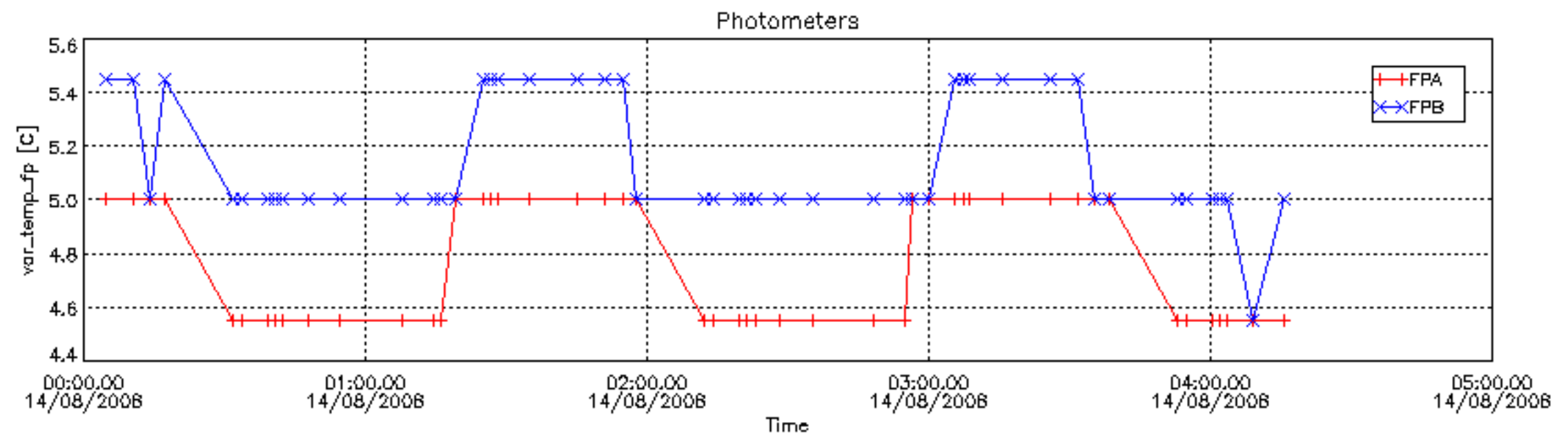
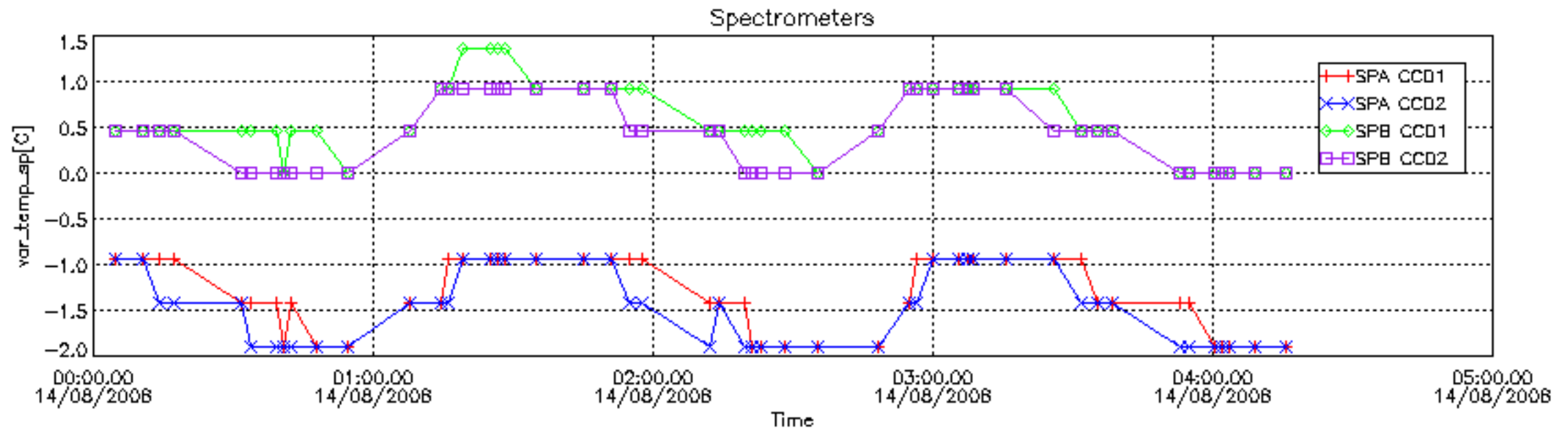


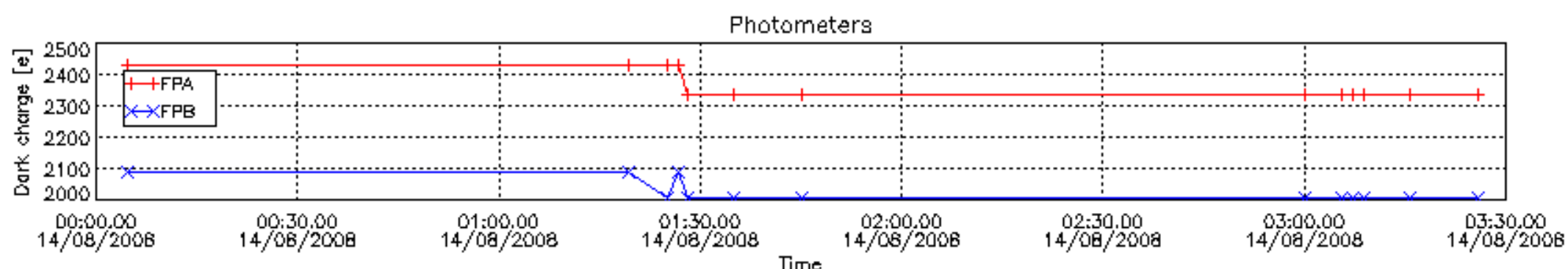
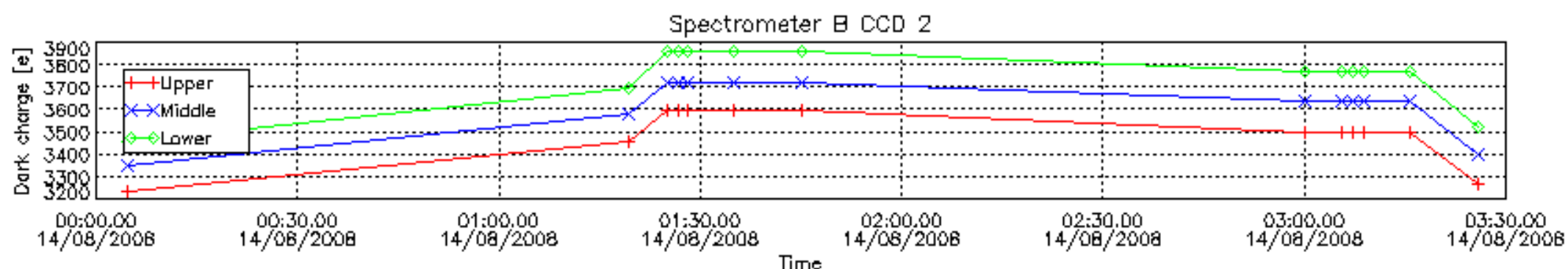
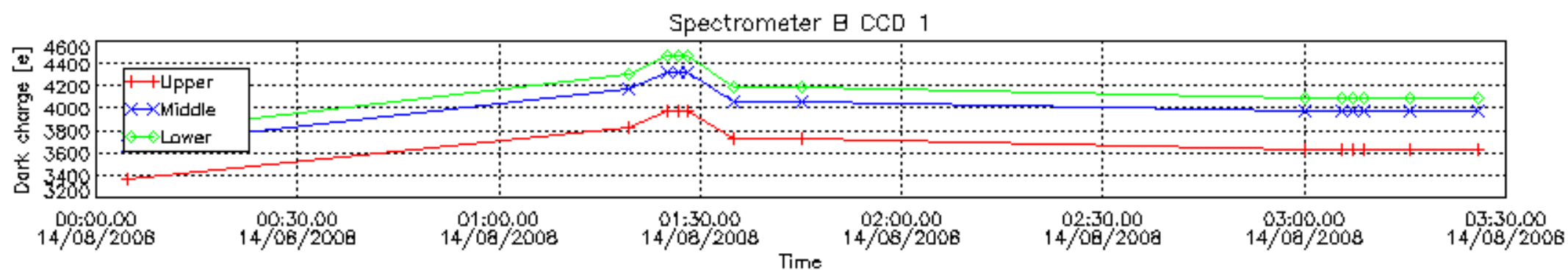
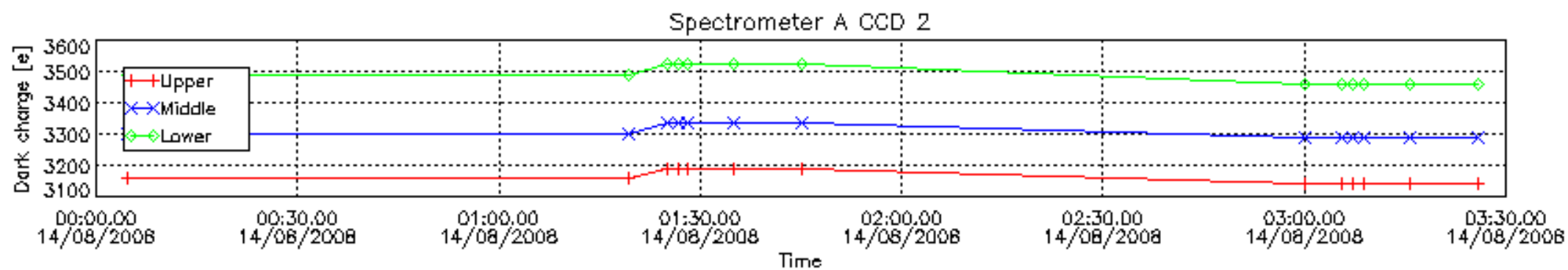
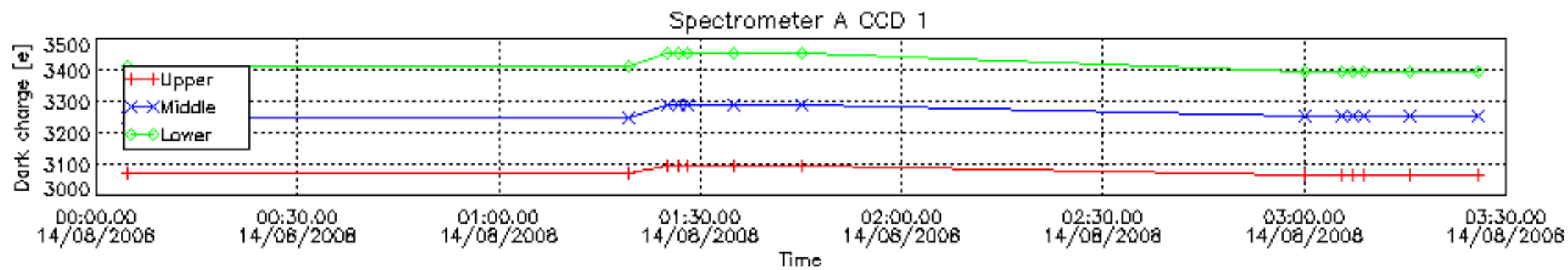
8. Auxiliary Data Files used for the production reported in section 2.4

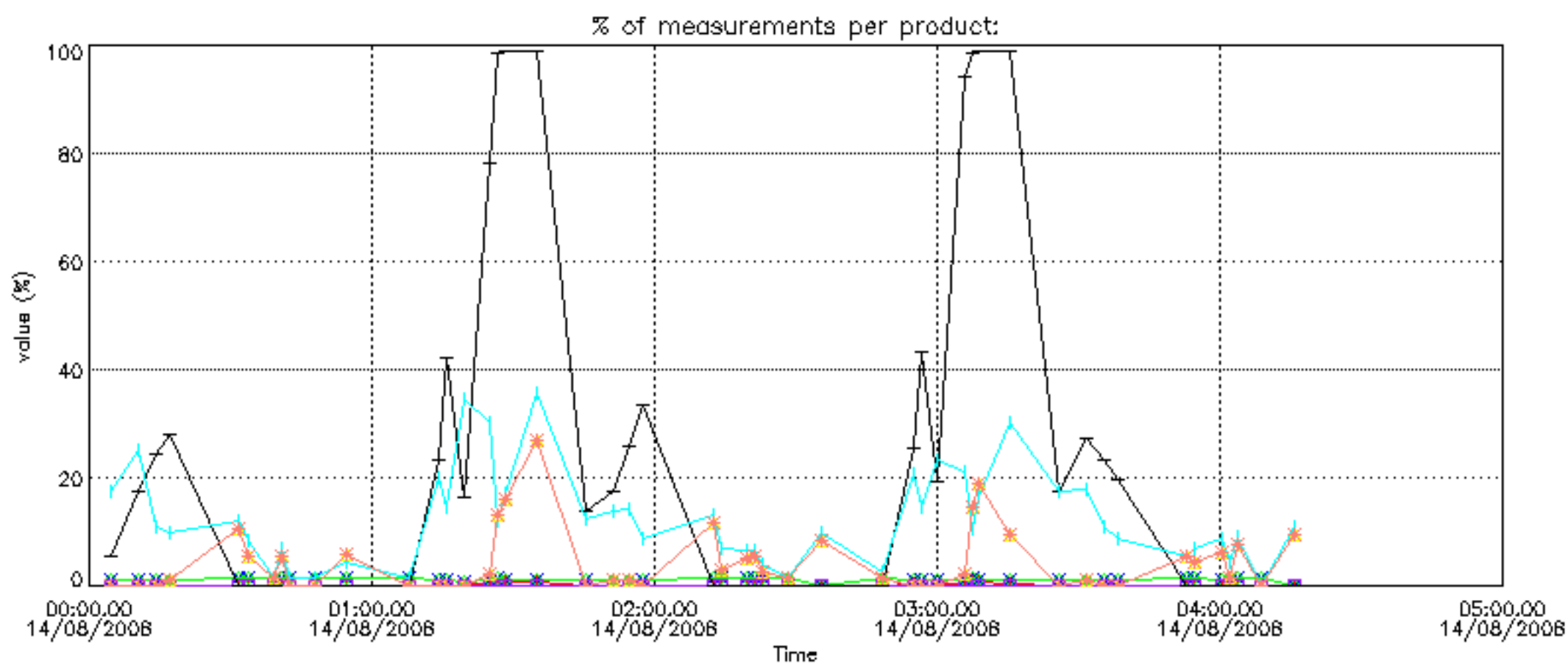
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	14-AUG-2008 00:04:39
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080811_100211_20080809_000000_20100101_000000	1	14-AUG-2008 00:04:39
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	14-AUG-2008 00:04:39
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	14-AUG-2008 00:04:39
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	14-AUG-2008 00:04:39
ECMWF_FILE	AUX_ECF_AXNECM20080813_072111_20080813_210000_20080814_090000	1	14-AUG-2008 00:04:39
OPTIONAL_ECMWF_FILE	MISSING	1	14-AUG-2008 00:04:39
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080813_215856_000060572071_00129_33750_6148.N1	1	14-AUG-2008 00:04:39
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080813_234512_000054192071_00130_33751_6149.N1	16	14-AUG-2008 01:25:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080814_012050_000044632071_00131_33752_6150.N1	31	14-AUG-2008 02:48:18

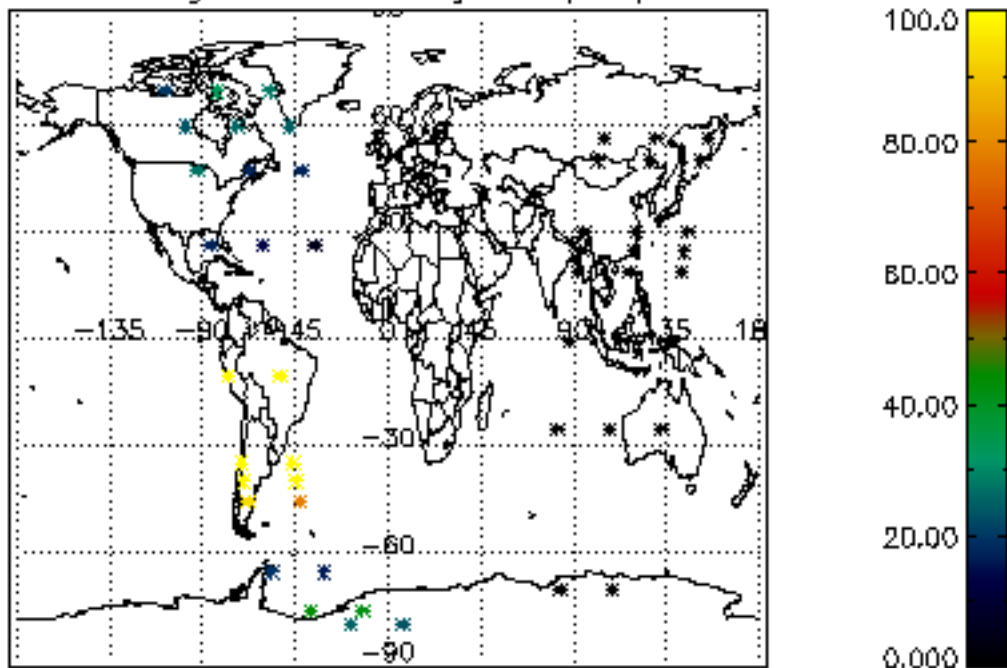




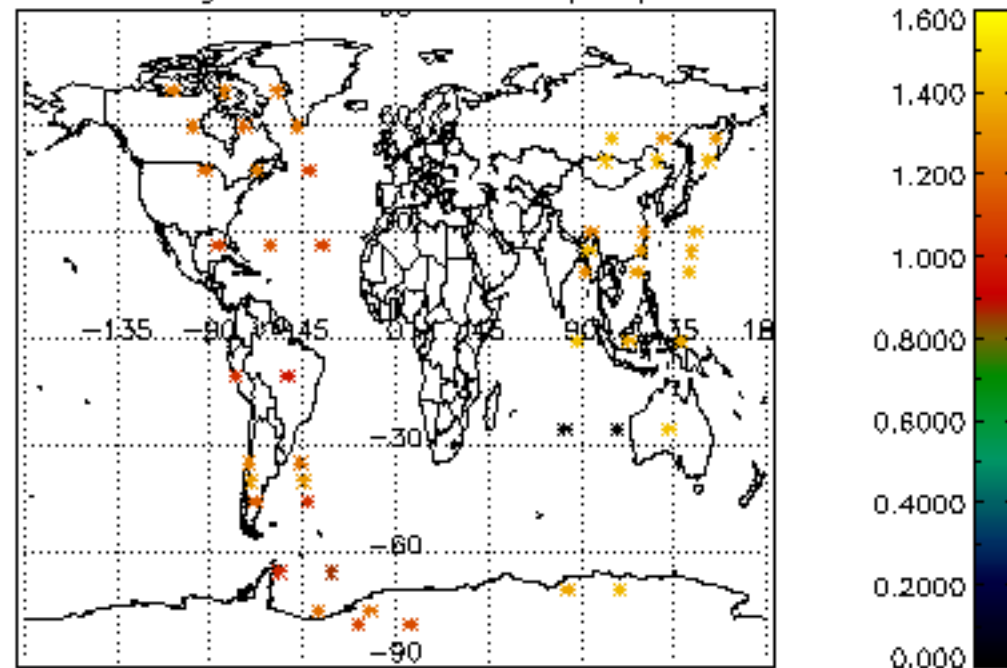




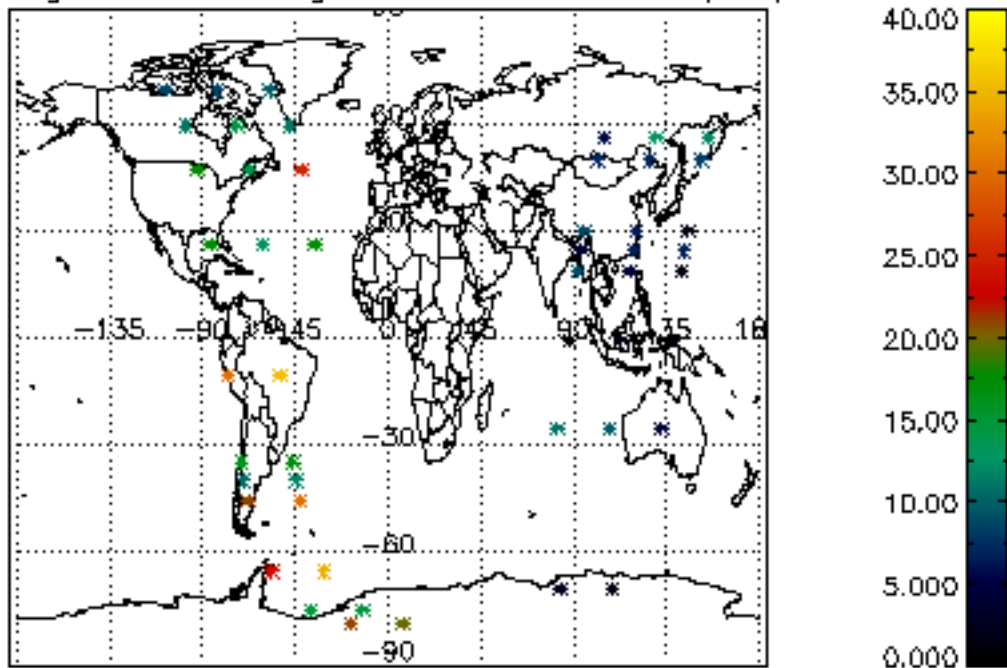
Percentage of cosmic ray hits per profile



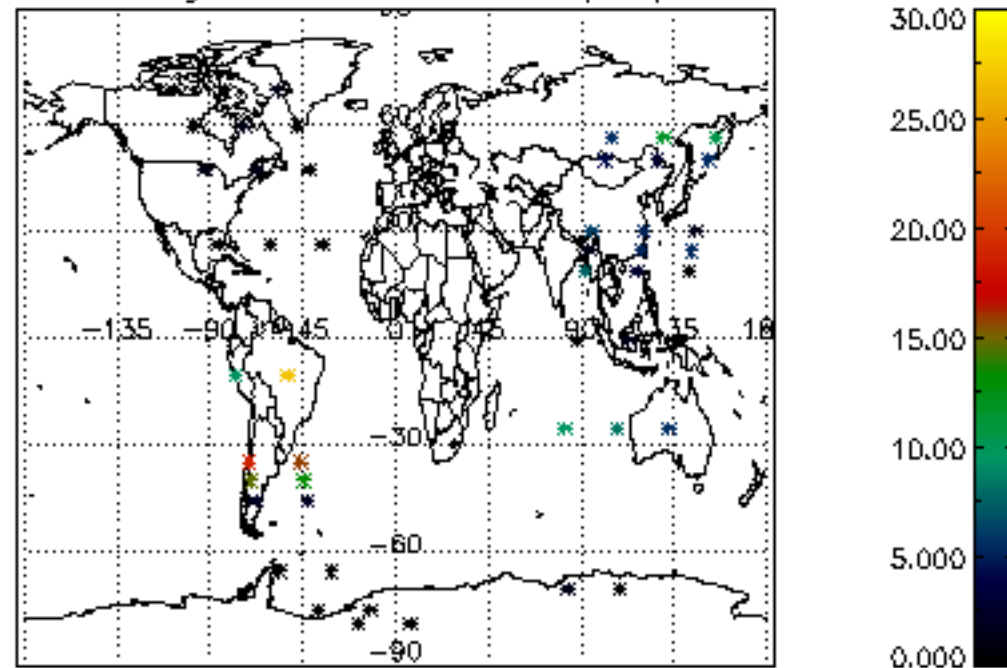
Percentage of datation errors per profile



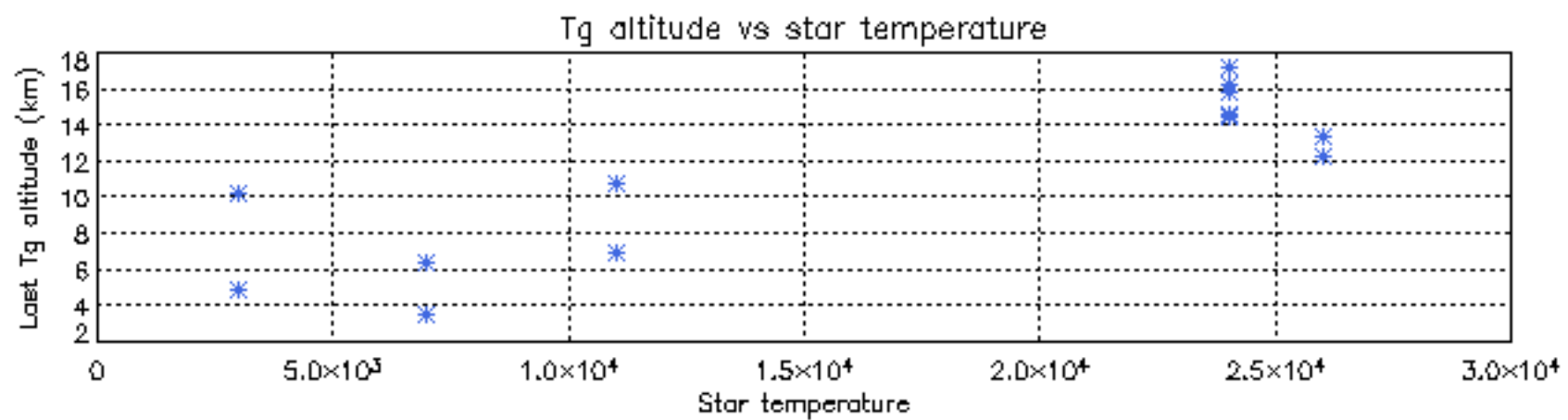
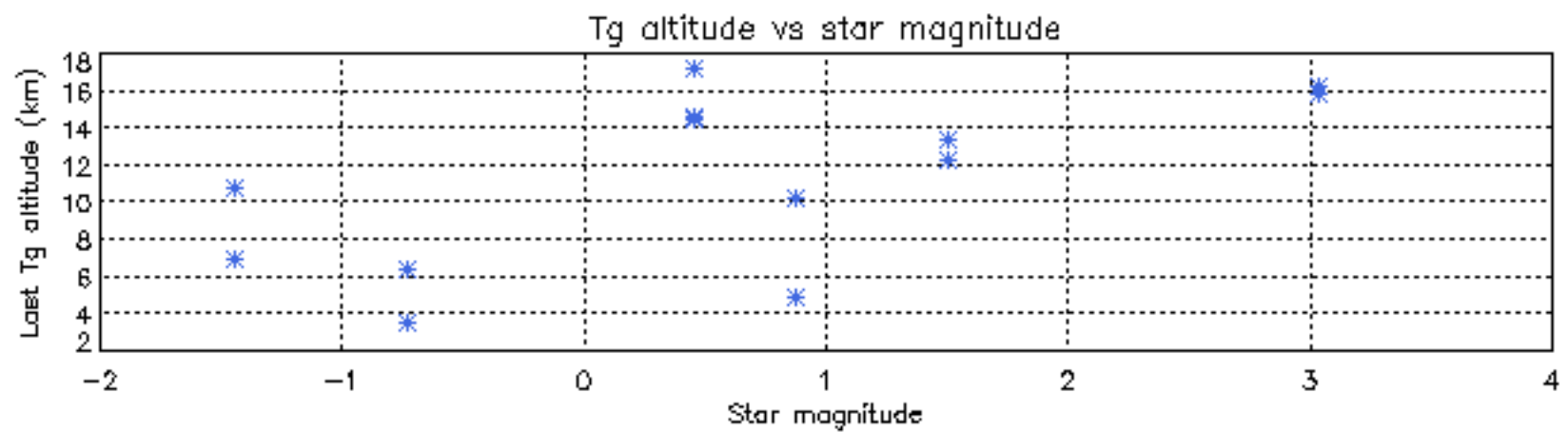
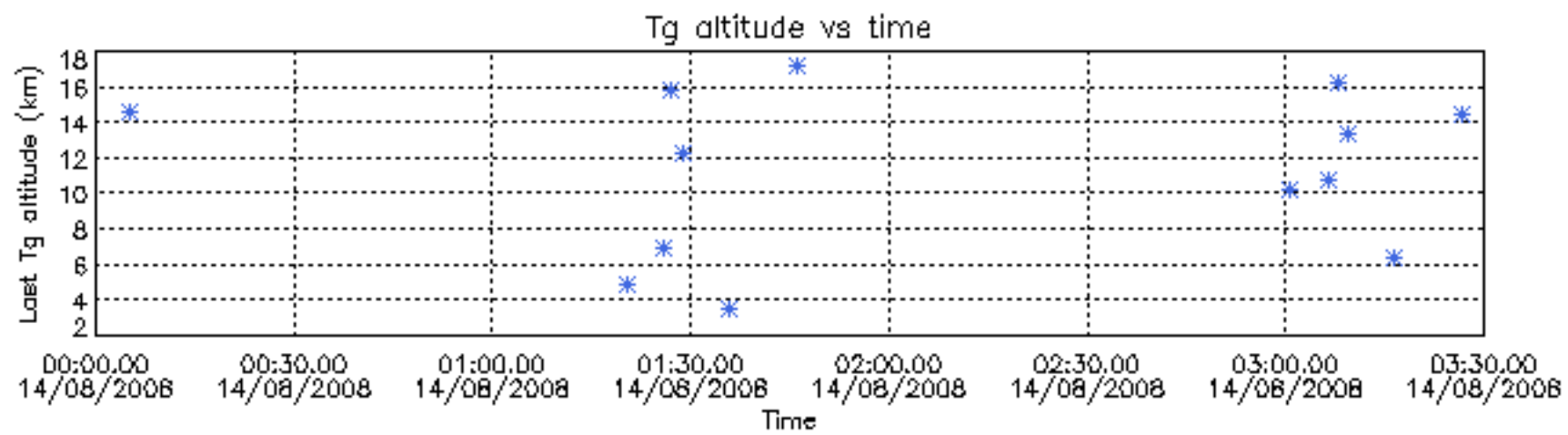
Percentage of star falling outside central band per profile



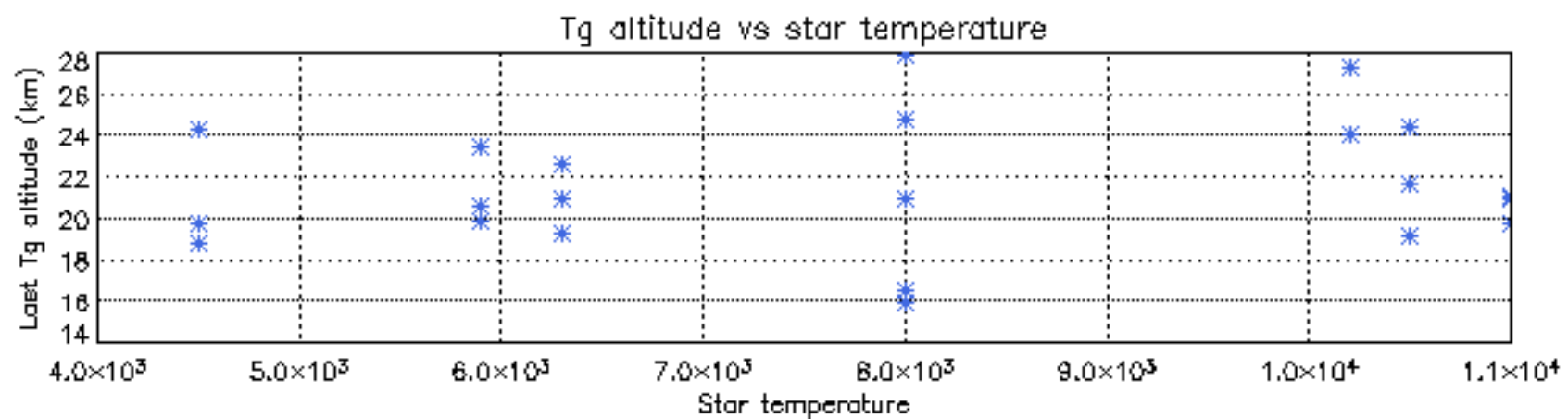
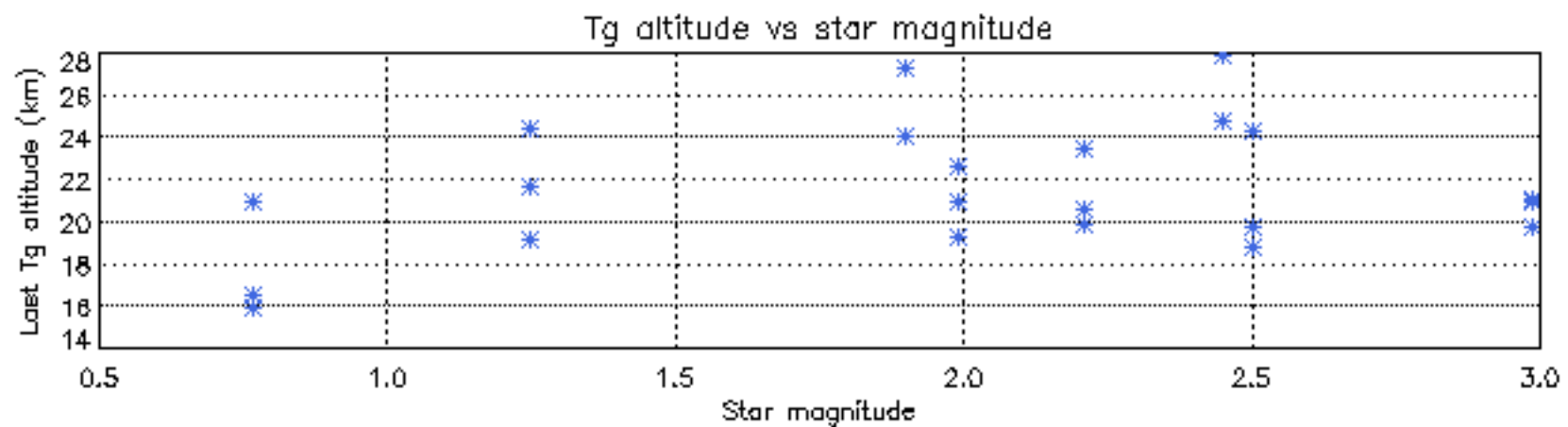
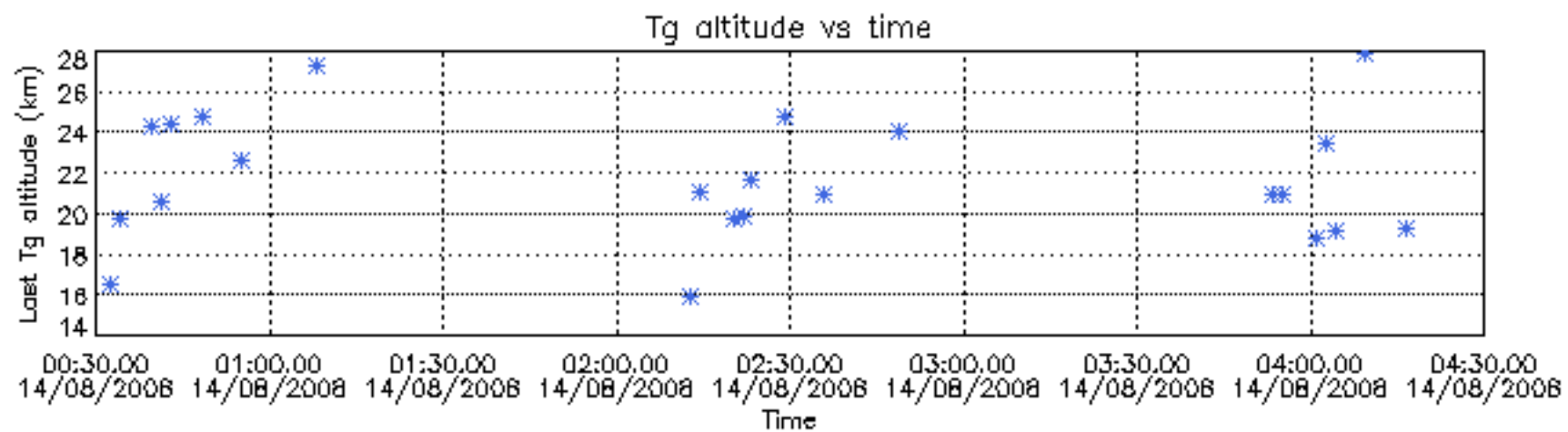
Percentage of saturation errors per profile

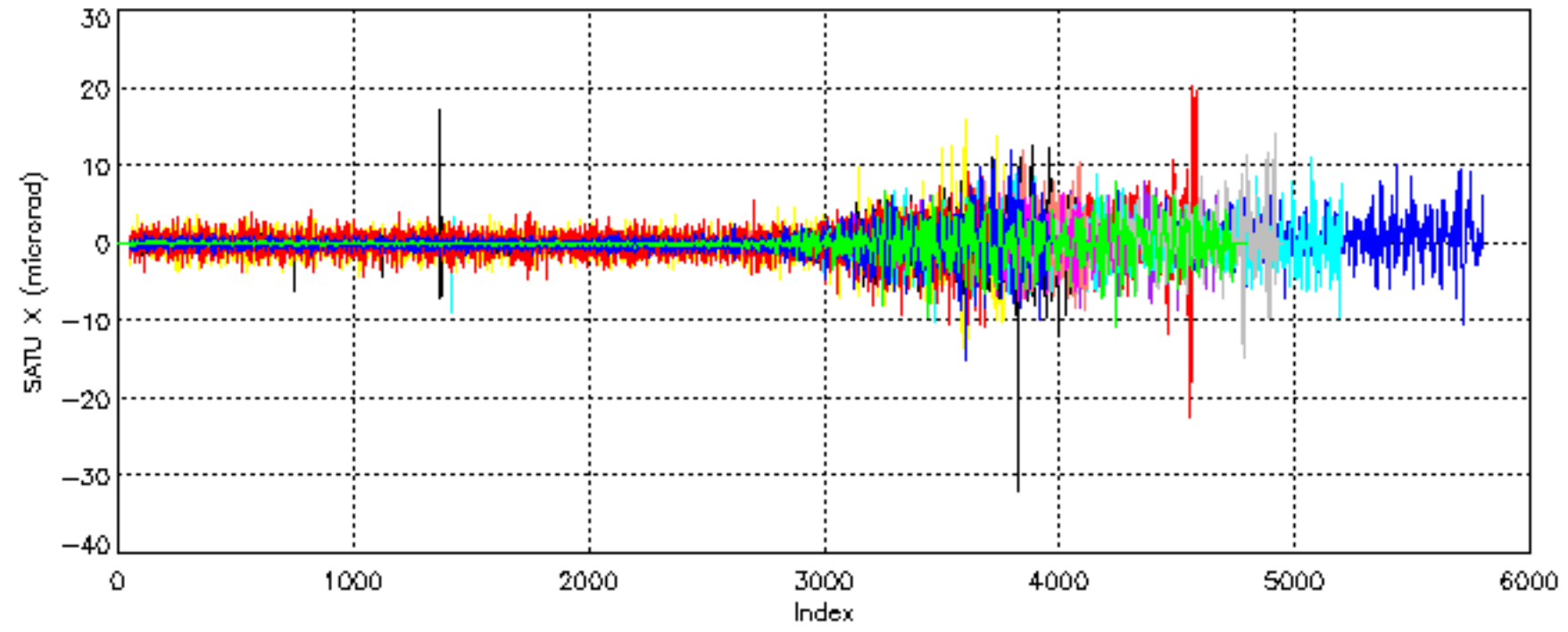


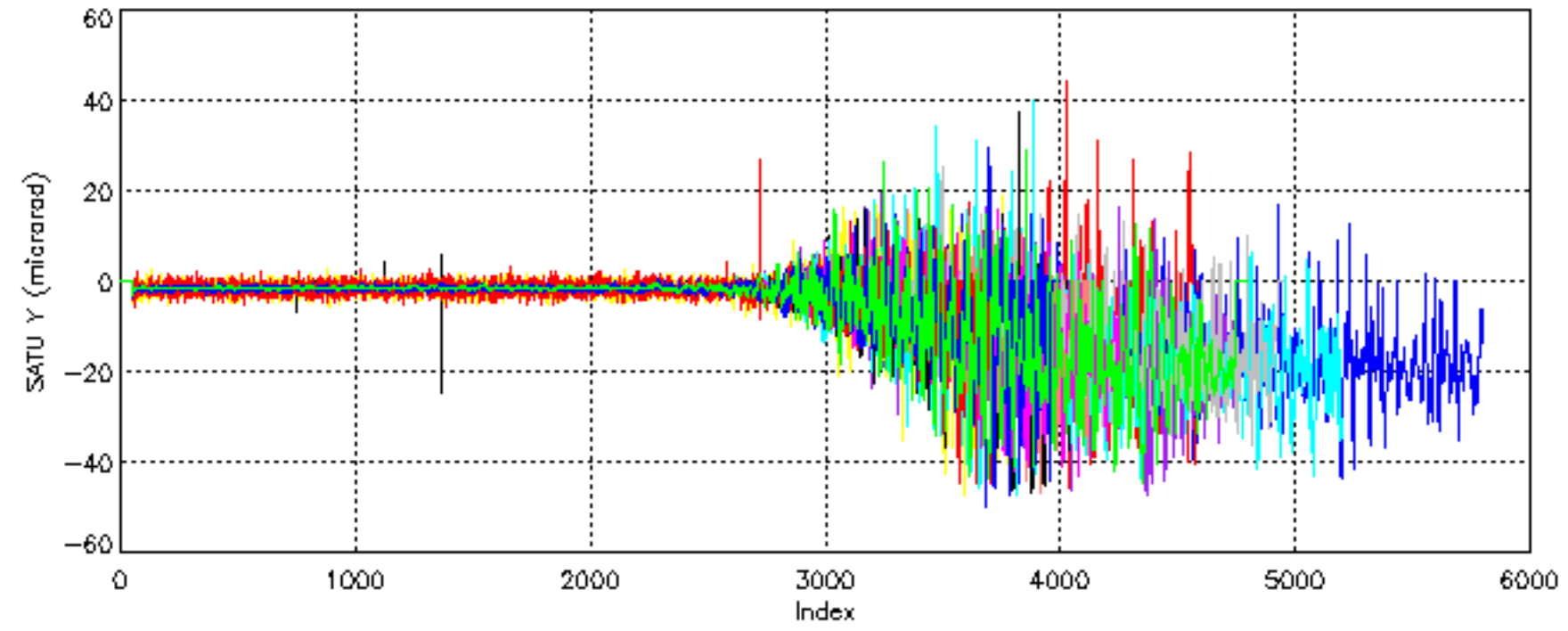
Tangent altitude at which the star is lost

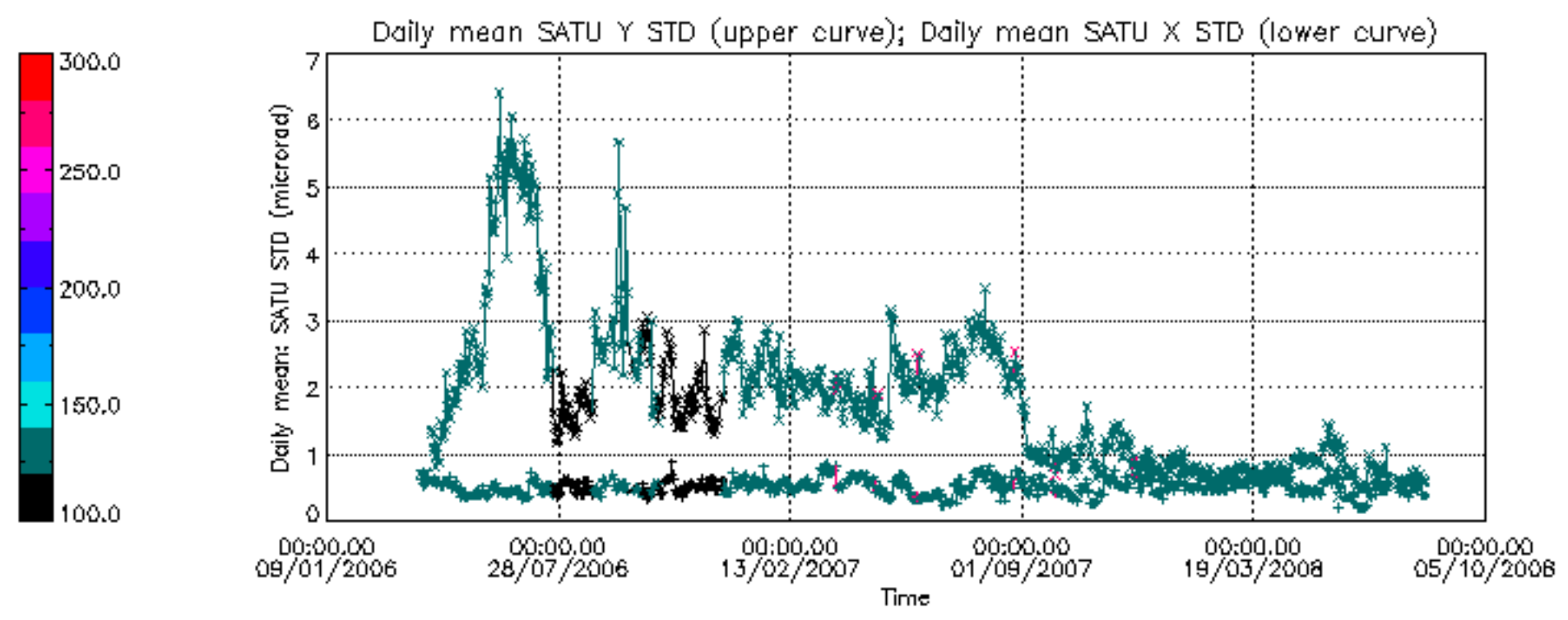


Tangent altitude at which the star is lost









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 3; -299.3; 01-AUG-2008 01:41:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33566
 4; -19.6; 01-AUG-2008 01:46:16; Dark ; 45.5; 157; The1Eri ; 2.91; 9300;occ; 91; 0;33566
 5; 310.1; 01-AUG-2008 01:51:46; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;33567
 6; 720.4; 01-AUG-2008 01:58:36; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;33567
 7; 921.8; 01-AUG-2008 02:01:57; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;33567
 8; 1110.0; 01-AUG-2008 02:05:05; Dark ; 45.5; 172; Gam Gru ; 3.00; 13100;occ; 91; 0;33567
 9; 2059.2; 01-AUG-2008 02:20:55; Bright; 38.0; 11; 53Alp Aql ; 0.76; 8000;occ; 76; 0;33567
 10; 2145.3; 01-AUG-2008 02:22:21; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;33567
 11; 2570.2; 01-AUG-2008 02:29:26; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;33567
 12; 2694.1; 01-AUG-2008 02:31:30; Bright; 37.5; 144; 18Del Cyg ; 2.86; 11000;occ; 75; 0;33567
 13; 3089.3; 01-AUG-2008 02:38:05; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;33567
 14; 3441.0; 01-AUG-2008 02:43:56; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33567

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 2; -1689.0; 01-AUG-2008 02:59:02; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;33567
 3; -1520.3; 01-AUG-2008 03:01:51; Dark ; 44.0; 28; 12Bet Tau ; 1.65; 15200;occ; 88; 0;33567
 4; -1395.5; 01-AUG-2008 03:03:56; Dark ; 39.5; 176; 23Zet Tau ; 3.02; 22000;occ; 79; 0;33567
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 6; -1009.5; 01-AUG-2008 03:10:22; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;33567
 7; -860.8; 01-AUG-2008 03:12:51; Dark ; 51.0; 7; 19Bet Ori ; 0.10; 14000;occ; 102; 0;33567
 8; -730.2; 01-AUG-2008 03:15:01; Dark ; 39.0; 101; 11Alp Lep ; 2.58; 7000;occ; 78; 0;33567
 9; -298.6; 01-AUG-2008 03:22:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33567
 10; -18.6; 01-AUG-2008 03:26:53; Dark ; 47.0; 157; The1Eri ; 2.91; 9300;occ; 94; 0;33567
 11; 310.9; 01-AUG-2008 03:32:22; Dark ; 53.0; 9; Alp Eri ; 0.45; 24000;occ; 106; 0;33568
 12; 721.0; 01-AUG-2008 03:39:12; Dark ; 43.5; 148; Alp Tuc ; 2.88; 4100;occ; 87; 0;33568
 13; 922.4; 01-AUG-2008 03:42:34; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;33568
 14; 1110.6; 01-AUG-2008 03:45:42; Dark ; 45.5; 172; Gam Gru ; 3.00; 13100;occ; 91; 0;33568
 15; 2059.2; 01-AUG-2008 04:01:31; Bright; 38.5; 11; 53Alp Aql ; 0.76; 8000;occ; 77; 0;33568
 16; 2145.4; 01-AUG-2008 04:02:57; Bright; 35.0; 168; 17Zet Aql ; 2.99; 11000;occ; 70; 0;33568
 17; 2570.4; 01-AUG-2008 04:10:02; Bright; 39.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 79; 0;33568
 18; 2693.9; 01-AUG-2008 04:12:05; Bright; 37.5; 144; 18Del Cyg ; 2.86; 11000;occ; 75; 0;33568
 19; 3088.9; 01-AUG-2008 04:18:40; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;33568
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 2; -1688.9; 01-AUG-2008 04:39:39; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;33568
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 11; 311.6; 01-AUG-2008 05:12:59; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;33569
 12; 721.2; 01-AUG-2008 05:19:49; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;33569
 13; 922.9; 01-AUG-2008 05:23:10; Dark ; 44.0; 31; Alp Gru ; 1.73; 15200;occ; 88; 0;33569
 14; 1111.1; 01-AUG-2008 05:26:19; Dark ; 44.5; 172; Gam Gru ; 3.00; 13100;occ; 89; 0;33569
 15; 2059.1; 01-AUG-2008 05:42:07; Bright; 37.5; 11; 53Alp Aql ; 0.76; 8000;occ; 75; 0;33569
 16; 2145.5; 01-AUG-2008 05:43:33; Bright; 36.0; 168; 17Zet Aql ; 2.99; 11000;occ; 72; 0;33569
 17; 2570.5; 01-AUG-2008 05:50:38; Bright; 39.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 78; 0;33569
 18; 2693.8; 01-AUG-2008 05:52:41; Bright; 37.5; 144; 18Del Cyg ; 2.86; 11000;occ; 75; 0;33569
 19; 3088.5; 01-AUG-2008 05:59:16; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33569
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 3; 2146.0; 01-AUG-2008 20:48:57; Bright; 34.5; 168; 17Zet Aql ; 2.99; 11000;occ; 69; 0;33578
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 5; 2691.9; 01-AUG-2008 20:58:03; Bright; 36.5; 144; 18Del Cyg ; 2.86; 11000;occ; 73; 0;33578
 6; 3084.5; 01-AUG-2008 21:04:35; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;33578
 7; 3440.8; 01-AUG-2008 21:10:32; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33578
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 9; 4348.4; 01-AUG-2008 21:25:39; Bright; 34.0; 107; 37The Aur ; 2.65; 11000;occ; 68; 0;33578
 10; 4517.4; 01-AUG-2008 21:28:28; Dark ; 44.0; 28; 12Bet Tau ; 1.65; 15200;occ; 88; 0;33578

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12; 4863.6; 01-AUG-2008 21:34:14; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;33578
13; 5030.4; 01-AUG-2008 21:37:01; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;33578
14; 5180.2; 01-AUG-2008 21:39:31; Dark ; 48.5; 7; 19Bet Ori ; 0.10; 14000;occ; 97; 0;33578
15; 5310.0; 01-AUG-2008 21:41:41; Dark ; 15.0; 101; 11Alp Lep ; 2.58; 7000;occ; 30; 0;33578
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 7; -859.8; 01-AUG-2008 06:34:04; Dark ; 39.0; 7; 19Bet Ori ; 0.10; 14000;occ; 78; 0;33569
 8; -729.3; 01-AUG-2008 06:36:14; Dark ; 37.5; 101; 11Alp Lep ; 2.58; 7000;occ; 75; 0;33569
 9; -297.2; 01-AUG-2008 06:43:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33569
10; -16.7; 01-AUG-2008 06:48:07; Dark ; 46.0; 157; The1Eri ; 2.91; 9300;occ; 92; 0;33569
11; 312.3; 01-AUG-2008 06:53:36; Dark ; 54.0; 9; Alp Eri ; 0.45; 24000;occ; 108; 0;33570
12; 721.8; 01-AUG-2008 07:00:25; Dark ; 43.5; 148; Alp Tuc ; 2.88; 4100;occ; 87; 0;33570
13; 923.5; 01-AUG-2008 07:03:47; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;33570
14; 1111.6; 01-AUG-2008 07:06:55; Dark ; 43.5; 172; Gam Gru ; 3.00; 13100;occ; 87; 0;33570
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 3; 2570.5; 01-AUG-2008 07:31:14; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;33570
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 8; 4347.3; 01-AUG-2008 08:00:51; Bright; 34.0; 107; 37The Aur ; 2.65; 11000;occ; 68; 0;33570
 9; 4516.0; 01-AUG-2008 08:03:39; Dark ; 41.5; 28; 12Bet Tau ; 1.65; 15200;occ; 83; 0;33570
10; 4641.1; 01-AUG-2008 08:05:44; Dark ; 38.0; 176; 23Zet Tau ; 3.02; 22000;occ; 76; 0;33570
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13; 5176.6; 01-AUG-2008 08:14:40; Dark ; 40.5; 7; 19Bet Ori ; 0.10; 14000;occ; 81; 0;33570
14; 5307.0; 01-AUG-2008 08:16:50; Dark ; 40.5; 101; 11Alp Lep ; 2.58; 7000;occ; 81; 0;33570
15; 5739.5; 01-AUG-2008 08:24:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33570
16; 6020.3; 01-AUG-2008 08:28:44; Dark ; 47.0; 157; The1Eri ; 2.91; 9300;occ; 94; 0;33570
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 4; 2693.3; 01-AUG-2008 09:13:53; Bright; 37.5; 144; 18Del Cyg ; 2.86; 11000;occ; 75; 0;33571
 5; 3087.5; 01-AUG-2008 09:20:27; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;33571
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2; 2169.5; 13-AUG-2008 09:28:08; Bright; 33.5; 168; 17Zet Aql ; 2.99; 11000;occ; 67; 0;33743
3; 2602.8; 13-AUG-2008 09:35:21; Bright; 37.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 75; 0;33743
4; 2702.9; 13-AUG-2008 09:37:01; Bright; 38.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 77; 0;33743
5; 3026.4; 13-AUG-2008 09:42:24; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33743
6; 3438.6; 13-AUG-2008 09:49:17; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33743
7; 4220.7; 13-AUG-2008 10:02:19; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;33743
8; 4364.7; 13-AUG-2008 10:04:43; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;33743
9; 4618.7; 13-AUG-2008 10:08:57; Dark ; 45.5; 151; 13Mu Gem ; 2.89; 3000;occ; 91; 0;33743
10; 4713.2; 13-AUG-2008 10:10:31; Dark ; 42.5; 44; 24Gam Gem ; 1.93; 11000;occ; 85; 0;33743
11; 4917.7; 13-AUG-2008 10:13:56; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;33743
12; 5258.9; 13-AUG-2008 10:19:37; Dark ; 42.0; 1; 9Alp CMa ; -1.44; 11000;occ; 84; 0;33743
13; 5359.2; 13-AUG-2008 10:21:17; Dark ; 37.5; 179; 240mi2CMa ; 3.03; 24000;occ; 75; 0;33743
14; 5446.4; 13-AUG-2008 10:22:44; Dark ; 40.5; 23; 21Eps CMa ; 1.50; 26000;occ; 81; 0;33743
15; 5602.6; 13-AUG-2008 10:25:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33743
16; 5855.8; 13-AUG-2008 10:29:34; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;33743
17; 6468.5; 13-AUG-2008 10:39:47; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;33743
18; 6825.5; 13-AUG-2008 10:45:44; Dark ; 42.0; 148; Alp Tuc ; 2.88; 4100;occ; 84; 0;33743
19; 7037.9; 13-AUG-2008 10:49:16; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;33743
20; 7217.9; 13-AUG-2008 10:52:16; Dark ; 40.0; 172; Gam Gru ; 3.00; 13100;occ; 80; 0;33743

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2; 2169.6; 13-AUG-2008 11:08:44; Bright; 34.0; 168; 17Zet Aql ; 2.99; 11000;occ; 68; 0;33744
3; 2602.6; 13-AUG-2008 11:15:57; Bright; 39.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 78; 0;33744
4; 2702.6; 13-AUG-2008 11:17:37; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;33744
5; 3438.5; 13-AUG-2008 11:29:52; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33744
6; 4220.8; 13-AUG-2008 11:42:55; Bright; 45.5; 42; 34Bet Aur ; 1.90; 10200;occ; 91; 0;33744
7; 4364.7; 13-AUG-2008 11:45:19; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;33744
8; 4619.0; 13-AUG-2008 11:49:33; Dark ; 45.5; 151; 13Mu Gem ; 2.89; 3000;occ; 91; 0;33744
9; 4713.4; 13-AUG-2008 11:51:07; Dark ; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;33744
10; 4918.1; 13-AUG-2008 11:54:32; Dark ; 50.5; 14; 58Alp Ori ; 0.87; 3000;occ; 101; 0;33744
11; 5259.2; 13-AUG-2008 12:00:13; Dark ; 41.5; 1; 9Alp CMa ; -1.44; 11000;occ; 83; 0;33744
12; 5359.4; 13-AUG-2008 12:01:53; Dark ; 38.0; 179; 240mi2CMa ; 3.03; 24000;occ; 76; 0;33744
13; 5602.9; 13-AUG-2008 12:05:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33744
14; 6469.3; 13-AUG-2008 12:20:23; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;33744
15; 6825.7; 13-AUG-2008 12:26:20; Dark ; 44.5; 148; Alp Tuc ; 2.88; 4100;occ; 89; 0;33744
16; 7038.2; 13-AUG-2008 12:29:52; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;33744
17; 7218.2; 13-AUG-2008 12:32:52; Dark ; 39.5; 172; Gam Gru ; 3.00; 13100;occ; 79; 0;33744

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3; 2602.5; 13-AUG-2008 12:56:32; Bright; 35.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 71; 0;33745
4; 2702.4; 13-AUG-2008 12:58:12; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;33745
5; 3025.7; 13-AUG-2008 13:03:35; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33745
6; 3438.6; 13-AUG-2008 13:10:28; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33745
7; 4220.7; 13-AUG-2008 13:23:31; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;33745
8; 4364.8; 13-AUG-2008 13:25:55; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;33745
9; 4619.2; 13-AUG-2008 13:30:09; Dark ; 45.0; 151; 13Mu Gem ; 2.89; 3000;occ; 90; 0;33745
10; 4713.7; 13-AUG-2008 13:31:43; Dark ; 41.5; 44; 24Gam Gem ; 1.93; 11000;occ; 83; 0;33745
11; 4918.5; 13-AUG-2008 13:35:08; Dark ; 47.5; 14; 58Alp Ori ; 0.87; 3000;occ; 95; 0;33745
12; 5259.6; 13-AUG-2008 13:40:49; Dark ; 41.0; 1; 9Alp CMa ; -1.44; 11000;occ; 82; 0;33745
13; 5359.6; 13-AUG-2008 13:42:29; Dark ; 36.0; 179; 240mi2CMa ; 3.03; 24000;occ; 72; 0;33745
14; 5446.9; 13-AUG-2008 13:43:57; Dark ; 40.0; 23; 21Eps CMa ; 1.50; 26000;occ; 80; 0;33745
15; 5603.3; 13-AUG-2008 13:46:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33745
16; 5856.3; 13-AUG-2008 13:50:46; Dark ; 52.0; 2; Alp Car ; -0.74; 7000;occ; 104; 0;33745
17; 6469.9; 13-AUG-2008 14:01:00; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;33745
18; 6826.2; 13-AUG-2008 14:06:56; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;33745
19; 7038.8; 13-AUG-2008 14:10:29; Dark ; 41.0; 31; Alp Gru ; 1.73; 15200;occ; 82; 0;33745
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3; 2702.3; 13-AUG-2008 14:38:48; Bright; 39.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 79; 0;33746
4; 3025.4; 13-AUG-2008 14:44:11; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;33746
5; 3438.7; 13-AUG-2008 14:51:04; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;33746
6; 4220.9; 13-AUG-2008 15:04:07; Bright; 38.5; 42; 34Bet Aur ; 1.90; 10200;occ; 77; 0;33746
7; 4364.9; 13-AUG-2008 15:06:31; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;33746

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9; 4714.0; 13-AUG-2008 15:12:20; Dark ; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;33746
10; 4919.1; 13-AUG-2008 15:15:45; Dark ; 46.5; 14; 58Alp Ori ; 0.87; 3000;occ; 93; 0;33746
11; 5259.9; 13-AUG-2008 15:21:26; Dark ; 36.0; 1; 9Alp CMA ; -1.44; 11000;occ; 72; 0;33746
12; 5360.0; 13-AUG-2008 15:23:06; Dark ; 36.5; 179; 240mi2CMA ; 3.03; 24000;occ; 73; 0;33746
13; 5447.1; 13-AUG-2008 15:24:33; Dark ; 38.5; 23; 21Eps CMA ; 1.50; 26000;occ; 77; 0;33746
14; 5603.7; 13-AUG-2008 15:27:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33746
15; 5856.6; 13-AUG-2008 15:31:22; Dark ; 42.5; 2; Alp Car ; -0.74; 7000;occ; 85; 0;33746
16; 6470.7; 13-AUG-2008 15:41:36; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;33746
17; 6826.6; 13-AUG-2008 15:47:32; Dark ; 40.0; 148; Alp Tuc ; 2.88; 4100;occ; 80; 0;33746
18; 7039.3; 13-AUG-2008 15:51:05; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;33746
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3; 2602.2; 13-AUG-2008 16:17:44; Bright; 38.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 77; 0;33747
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6; 3438.7; 13-AUG-2008 16:31:40; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33747
7; 4220.8; 13-AUG-2008 16:44:42; Bright; 55.5; 42; 34Bet Aur ; 1.90; 10200;occ; 111; 0;33747
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13; 5360.1; 13-AUG-2008 17:03:42; Dark ; 38.0; 179; 240mi2CMA ; 3.03; 24000;occ; 76; 0;33747
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17; 6826.9; 13-AUG-2008 17:28:09; Dark ; 40.0; 148; Alp Tuc ; 2.88; 4100;occ; 80; 0;33747
18; 7039.5; 13-AUG-2008 17:31:41; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;33747
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3; 2170.3; 13-AUG-2008 17:51:08; Bright; 34.5; 168; 17Zet Aql ; 2.99; 11000;occ; 69; 0;33748
4; 2509.6; 13-AUG-2008 17:56:47; Bright; 31.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 62; 0;33748
5; 2602.0; 13-AUG-2008 17:58:20; Bright; 38.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 77; 0;33748
6; 2701.8; 13-AUG-2008 17:59:59; Bright; 40.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 81; 0;33748
7; 3024.9; 13-AUG-2008 18:05:23; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;33748
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9; 4220.7; 13-AUG-2008 18:25:18; Bright; 56.0; 42; 34Bet Aur ; 1.90; 10200;occ; 112; 0;33748
10; 4365.0; 13-AUG-2008 18:27:43; Bright; 33.0; 107; 37The Aur ; 2.65; 11000;occ; 66; 0;33748
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13; 4919.8; 13-AUG-2008 18:36:58; Dark ; 41.0; 14; 58Alp Ori ; 0.87; 3000;occ; 82; 0;33748
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15; 5360.2; 13-AUG-2008 18:44:18; Dark ; 38.0; 179; 240mi2CMA ; 3.03; 24000;occ; 76; 0;33748
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20; 6827.3; 13-AUG-2008 19:08:45; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;33748
21; 7039.9; 13-AUG-2008 19:12:18; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;33748
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8; 1004.7; 13-AUG-2008 22:33:30; Dark ; 40.0; 31; Alp Gru ; 1.73; 15200;occ; 80; 0;33751
9; 1184.4; 13-AUG-2008 22:36:30; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;33751
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12; 2508.8; 13-AUG-2008 22:58:34; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;33751
13; 2601.6; 13-AUG-2008 23:00:07; Bright; 36.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 73; 0;33751
14; 2701.0; 13-AUG-2008 23:01:46; Bright; 35.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 70; 0;33751

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17; 4220.7; 13-AUG-2008 23:27:06; Bright; 39.0; 42; 34Bet Aur ; 1.90; 10200;occ; 78; 0;33751
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19; 4715.0; 13-AUG-2008 23:35:20; Dark ; 39.0; 44; 24Gam Gem ; 1.93; 11000;occ; 78; 0;33751
20; 4920.8; 13-AUG-2008 23:38:46; Dark ; 50.0; 14; 58Alp Ori ; 0.87; 3000;occ; 100; 0;33751
21; 5261.2; 13-AUG-2008 23:44:27; Dark ; 44.0; 1; 9Alp CMA ; -1.44; 11000;occ; 88; 0;33751
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10; 2171.1; 14-AUG-2008 00:33:32; Bright; 36.0; 168; 17Zet Aql ; 2.99; 11000;occ; 72; 0;33752
11; 2508.6; 14-AUG-2008 00:39:10; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;33752
12; 2601.5; 14-AUG-2008 00:40:43; Bright; 37.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 74; 0;33752
13; 2700.8; 14-AUG-2008 00:42:22; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;33752
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16; 4220.7; 14-AUG-2008 01:07:42; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;33752
17; 4620.6; 14-AUG-2008 01:14:22; Dark ; 45.0; 151; 13Mu Gem ; 2.89; 3000;occ; 90; 0;33752
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19; 4921.3; 14-AUG-2008 01:19:23; Dark ; 58.0; 14; 58Alp Ori ; 0.87; 3000;occ; 116; 0;33752
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16; 7049.6; 15-AUG-2008 14:48:01; Dark ; 40.0; 31; Alp Gru ; 1.73; 15200;occ; 80; 0;33774
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2; 2503.6; 15-AUG-2008 15:12:51; Bright; 39.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 79; 0;33775
3; 2598.5; 15-AUG-2008 15:14:26; Bright; 38.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 76; 0;33775
4; 2675.1; 15-AUG-2008 15:15:43; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;33775
5; 3017.3; 15-AUG-2008 15:21:25; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33775
6; 3438.2; 15-AUG-2008 15:28:26; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;33775
7; 4625.6; 15-AUG-2008 15:48:13; Dark ; 47.0; 151; 13Mu Gem ; 2.89; 3000;occ; 94; 0;33775
8; 4720.9; 15-AUG-2008 15:49:48; Dark ; 39.5; 44; 24Gam Gem ; 1.93; 11000;occ; 79; 0;33775
9; 5268.7; 15-AUG-2008 15:58:56; Dark ; 42.0; 1; 9Alp CMa ; -1.44; 11000;occ; 84; 0;33775
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11; 5614.8; 15-AUG-2008 16:04:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33775
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13; 6490.7; 15-AUG-2008 16:19:18; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;33775
14; 6836.4; 15-AUG-2008 16:25:04; Dark ; 38.0; 148; Alp Tuc ; 2.88; 4100;occ; 76; 0;33775
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8; 4625.8; 15-AUG-2008 17:28:49; Dark ; 46.0; 151; 13Mu Gem ; 2.89; 3000;occ; 92; 0;33776
9; 4721.1; 15-AUG-2008 17:30:25; Dark ; 39.0; 44; 24Gam Gem ; 1.93; 11000;occ; 78; 0;33776
10; 5269.0; 15-AUG-2008 17:39:32; Dark ; 45.5; 1; 9Alp CMa ;-1.44; 11000;occ; 91; 0;33776
11; 5615.2; 15-AUG-2008 17:45:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33776
12; 5863.9; 15-AUG-2008 17:49:27; Dark ; 50.0; 2; Alp Car ;-0.74; 7000;occ; 100; 0;33776
13; 6491.3; 15-AUG-2008 17:59:55; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;33776
14; 6836.8; 15-AUG-2008 18:05:40; Dark ; 46.0; 148; Alp Tuc ; 2.88; 4100;occ; 92; 0;33776
15; 7050.4; 15-AUG-2008 18:09:14; Dark ; 39.0; 31; Alp Gru ; 1.73; 15200;occ; 78; 0;33776

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2; 1192.9; 15-AUG-2008 18:12:12; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;33777
3; 2065.0; 15-AUG-2008 18:26:44; Bright; 35.0; 11; 53Alp Aql ; 0.76; 8000;occ; 70; 0;33777
4; 2503.2; 15-AUG-2008 18:34:03; Bright; 39.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 78; 0;33777
5; 2598.2; 15-AUG-2008 18:35:38; Bright; 39.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 79; 0;33777
6; 2675.2; 15-AUG-2008 18:36:55; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;33777
7; 3016.8; 15-AUG-2008 18:42:36; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;33777
8; 3438.1; 15-AUG-2008 18:49:38; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;33777
9; 4626.0; 15-AUG-2008 19:09:25; Dark ; 44.5; 151; 13Mu Gem ; 2.89; 3000;occ; 89; 0;33777
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12; 5366.7; 15-AUG-2008 19:21:46; Dark ; 38.0; 179; 240mi2CMa ; 3.03; 24000;occ; 76; 0;33777
13; 5454.1; 15-AUG-2008 19:23:13; Dark ; 41.0; 23; 21Eps CMa ; 1.50; 26000;occ; 82; 0;33777
14; 5615.6; 15-AUG-2008 19:25:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33777
15; 5864.0; 15-AUG-2008 19:30:03; Dark ; 41.5; 2; Alp Car ;-0.74; 7000;occ; 83; 0;33777
16; 6492.0; 15-AUG-2008 19:40:31; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;33777
17; 6837.0; 15-AUG-2008 19:46:16; Dark ; 39.0; 148; Alp Tuc ; 2.88; 4100;occ; 78; 0;33777
18; 7050.9; 15-AUG-2008 19:49:50; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;33777

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4; 212.5; 16-AUG-2008 00:38:16; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;33781
5; 458.0; 16-AUG-2008 00:42:21; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;33781
6; 802.5; 16-AUG-2008 00:48:05; Dark ; 62.0; 84; Alp Phe ; 2.40; 4500;occ; 124; 0;33781
7; 1015.8; 16-AUG-2008 00:51:39; Dark ; 42.0; 31; Alp Gru ; 1.73; 15200;occ; 84; 0;33781
8; 1252.8; 16-AUG-2008 00:55:36; Dark ; 57.0; 18; 24Alp PsA ; 1.17; 9700;occ; 114; 0;33781
9; 1592.0; 16-AUG-2008 01:01:15; Bright; 45.0; 142; 49Del Cap ; 2.85; 8900;occ; 90; 0;33781
10; 2113.0; 16-AUG-2008 01:09:56; Bright; 44.0; 61; 8Eps Peg ; 2.10; 3900;occ; 88; 0;33781
11; 2502.2; 16-AUG-2008 01:16:25; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;33781
12; 2597.6; 16-AUG-2008 01:18:01; Bright; 38.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 76; 0;33781
13; 2694.4; 16-AUG-2008 01:19:37; Bright; 39.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 78; 0;33781
14; 3015.6; 16-AUG-2008 01:24:59; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33781
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16; 4193.2; 16-AUG-2008 01:44:36; Bright; 48.5; 6; 13Alp Aur ; 0.08; 3400;occ; 97; 0;33781
17; 4367.4; 16-AUG-2008 01:47:30; Bright; 39.0; 107; 37The Aur ; 2.65; 11000;occ; 78; 0;33781
18; 4553.7; 16-AUG-2008 01:50:37; Dark ; 50.0; 28; 12Bet Tau ; 1.65; 15200;occ; 100; 0;33781
19; 4722.2; 16-AUG-2008 01:53:25; Dark ; 37.5; 44; 24Gam Gem ; 1.93; 11000;occ; 75; 0;33781
20; 4933.4; 16-AUG-2008 01:56:56; Dark ; 56.0; 14; 58Alp Ori ; 0.87; 3000;occ; 112; 0;33781
21; 5125.6; 16-AUG-2008 02:00:09; Dark ; 46.5; 30; 46Eps Ori ; 1.69; 30000;occ; 93; 0;33781

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2; -825.1; 16-AUG-2008 02:01:34; Dark ; 46.0; 125; 44Iot Ori ; 2.77; 30000;occ; 92; 0;33781
3; -730.4; 16-AUG-2008 02:03:09; Dark ; 56.0; 7; 19Bet Ori ; 0.10; 14000;occ; 112; 0;33781
4; -618.8; 16-AUG-2008 02:05:00; Dark ; 47.5; 101; 11Alp Lep ; 2.58; 7000;occ; 95; 0;33781
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6; 213.6; 16-AUG-2008 02:18:53; Dark ; 52.5; 157; The1Eri ; 2.91; 9300;occ; 105; 0;33782
7; 458.8; 16-AUG-2008 02:22:58; Dark ; 54.5; 9; Alp Eri ; 0.45; 24000;occ; 109; 0;33782
8; 803.3; 16-AUG-2008 02:28:42; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;33782
9; 1016.2; 16-AUG-2008 02:32:15; Dark ; 42.0; 31; Alp Gru ; 1.73; 15200;occ; 84; 0;33782
10; 1253.4; 16-AUG-2008 02:36:12; Dark ; 54.0; 18; 24Alp PsA ; 1.17; 9700;occ; 108; 0;33782
11; 1592.3; 16-AUG-2008 02:41:51; Bright; 43.5; 142; 49Del Cap ; 2.85; 8900;occ; 87; 0;33782
12; 1799.9; 16-AUG-2008 02:45:19; Bright; 41.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 83; 0;33782
13; 2112.8; 16-AUG-2008 02:50:32; Bright; 44.0; 61; 8Eps Peg ; 2.10; 3900;occ; 88; 0;33782


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 3;-1482.0; 16-AUG-2008 03:31:13; Dark ; 50.0; 28; 12Bet Tau ; 1.65; 15200;occ; 100; 0;33782
 4;-1313.5; 16-AUG-2008 03:34:01; Dark ; 44.5; 44; 24Gam Gem ; 1.93; 11000;occ; 89; 0;33782
 5;-1102.0; 16-AUG-2008 03:37:33; Dark ; 56.0; 14; 58Alp Ori ; 0.87; 3000;occ; 112; 0;33782
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 7; -824.4; 16-AUG-2008 03:42:10; Dark ; 46.0; 125; 44Iot Ori ; 2.77; 30000;occ; 92; 0;33782
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 9; -618.1; 16-AUG-2008 03:45:37; Dark ; 45.5; 101; 11Alp Lep ; 2.58; 7000;occ; 91; 0;33782
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11; 215.0; 16-AUG-2008 03:59:30; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;33783
12; 459.5; 16-AUG-2008 04:03:34; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;33783
13; 804.3; 16-AUG-2008 04:09:19; Dark ; 57.5; 84; Alp Phe ; 2.40; 4500;occ; 115; 0;33783
14; 1016.8; 16-AUG-2008 04:12:52; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;33783
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17; 1800.0; 16-AUG-2008 04:25:55; Bright; 42.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 84; 0;33783
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22; 3015.0; 16-AUG-2008 06:26:46; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;33784
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 5; 2500.0; 16-AUG-2008 21:23:34; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;33793
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 9; 3437.8; 16-AUG-2008 21:39:12; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33793
10; 4192.3; 16-AUG-2008 21:51:47; Bright; 47.5; 6; 13Alp Aur ; 0.08; 3400;occ; 95; 0;33793
11; 4368.2; 16-AUG-2008 21:54:42; Bright; 39.0; 107; 37The Aur ; 2.65; 11000;occ; 78; 0;33793
12; 4556.0; 16-AUG-2008 21:57:50; Dark ; 53.5; 28; 12Bet Tau ; 1.65; 15200;occ; 107; 0;33793
13; 4725.4; 16-AUG-2008 22:00:40; Dark ; 42.5; 44; 24Gam Gem ; 1.93; 11000;occ; 85; 0;33793
14; 4938.7; 16-AUG-2008 22:04:13; Dark ; 56.0; 14; 58Alp Ori ; 0.87; 3000;occ; 112; 0;33793

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4; 2494.5; 19-AUG-2008 08:04:26; Bright; 38.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 77; 0;33828
5; 2594.1; 19-AUG-2008 08:06:05; Bright; 36.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 73; 0;33828
6; 2686.9; 19-AUG-2008 08:07:38; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;33828
7; 3004.3; 19-AUG-2008 08:12:56; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;33828
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9; 4188.7; 19-AUG-2008 08:32:40; Bright; 51.0; 6; 13Alp Aur ; 0.08; 3400;occ; 102; 0;33828
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11; 4563.4; 19-AUG-2008 08:38:55; Dark ; 55.5; 28; 12Bet Tau ; 1.65; 15200;occ; 111; 0;33828
12; 4734.6; 19-AUG-2008 08:41:46; Dark ; 41.5; 44; 24Gam Gem ; 1.93; 11000;occ; 83; 0;33828
13; 4955.2; 19-AUG-2008 08:45:27; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;33828
14; 5039.0; 19-AUG-2008 08:46:50; Dark ; 54.5; 27; 24Gam Ori ; 1.64; 26000;occ; 109; 0;33828
15; 5156.1; 19-AUG-2008 08:48:48; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;33828
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18; 5451.1; 19-AUG-2008 08:53:42; Dark ; 47.0; 101; 11Alp Lep ; 2.58; 7000;occ; 94; 0;33828
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21; 6526.5; 19-AUG-2008 09:11:38; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;33828
22; 6877.4; 19-AUG-2008 09:17:29; Dark ; 65.0; 84; Alp Phe ; 2.40; 4500;occ; 130; 0;33828
23; 7068.9; 19-AUG-2008 09:20:40; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;33828
24; 7308.1; 19-AUG-2008 09:24:40; Dark ; 54.0; 18; 24Alp PsA ; 1.17; 9700;occ; 108; 0;33828
25; 7633.6; 19-AUG-2008 09:30:05; Bright; 42.5; 142; 49Del Cap ; 2.85; 8900;occ; 85; 0;33828
26; 7835.4; 19-AUG-2008 09:33:27; Bright; 18.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 37; 0;33828

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2; 1912.4; 19-AUG-2008 09:35:20; Bright; 45.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 90; 0;33829
3; 2099.9; 19-AUG-2008 09:38:27; Bright; 43.0; 61; 8Eps Peg ; 2.10; 3900;occ; 86; 0;33829
4; 2494.3; 19-AUG-2008 09:45:02; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;33829
5; 2593.9; 19-AUG-2008 09:46:41; Bright; 34.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 69; 0;33829
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9; 4188.5; 19-AUG-2008 10:13:16; Bright; 47.5; 6; 13Alp Aur ; 0.08; 3400;occ; 95; 0;33829
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13; 4955.7; 19-AUG-2008 10:26:03; Dark ; 59.5; 14; 58Alp Ori ; 0.87; 3000;occ; 119; 0;33829
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15; 5156.7; 19-AUG-2008 10:29:24; Dark ; 52.0; 30; 46Eps Ori ; 1.69; 30000;occ; 104; 0;33829
16; 5244.0; 19-AUG-2008 10:30:51; Dark ; 45.5; 125; 44Iot Ori ; 2.77; 30000;occ; 91; 0;33829
17; 5346.8; 19-AUG-2008 10:32:34; Dark ; 60.0; 7; 19Bet Ori ; 0.10; 14000;occ; 120; 0;33829
18; 5451.8; 19-AUG-2008 10:34:19; Dark ; 49.0; 101; 11Alp Lep ; 2.58; 7000;occ; 98; 0;33829
19; 5624.8; 19-AUG-2008 10:37:12; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;33829
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22; 6878.1; 19-AUG-2008 10:58:05; Dark ; 56.5; 84; Alp Phe ; 2.40; 4500;occ; 113; 0;33829
23; 7069.2; 19-AUG-2008 11:01:17; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;33829
24; 7308.6; 19-AUG-2008 11:05:16; Dark ; 54.0; 18; 24Alp PsA ; 1.17; 9700;occ; 108; 0;33829
25; 7633.6; 19-AUG-2008 11:10:41; Bright; 42.0; 142; 49Del Cap ; 2.85; 8900;occ; 84; 0;33829

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2; 1912.1; 19-AUG-2008 11:15:55; Bright; 45.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 91; 0;33830

3;	2099.6;	19-AUG-2008	11:19:03;	Bright;	41.0;	61;	8Eps Peg	; 2.10;	3900;occ;	82;	0;	33830
4;	2494.1;	19-AUG-2008	11:25:37;	Bright;	36.0;	92;	53Eps Cyg	; 2.50;	4500;occ;	72;	0;	33830
5;	2593.9;	19-AUG-2008	11:27:17;	Bright;	37.0;	66;	37Gam Cyg	; 2.21;	5900;occ;	74;	0;	33830
6;	2686.6;	19-AUG-2008	11:28:50;	Bright;	38.5;	19;	50Alp Cyg	; 1.25;	10500;occ;	77;	0;	33830
7;	3003.8;	19-AUG-2008	11:34:07;	Bright;	38.0;	89;	5Alp Cep	; 2.45;	8000;occ;	76;	0;	33830
8;	3437.2;	19-AUG-2008	11:41:20;	Bright;	36.5;	49;	1Alp UMi	; 1.99;	6300;occ;	73;	0;	33830
9;	4188.3;	19-AUG-2008	11:53:51;	Bright;	47.0;	6;	13Alp Aur	; 0.08;	3400;occ;	94;	0;	33830
10;	4371.0;	19-AUG-2008	11:56:54;	Bright;	39.5;	107;	37The Aur	; 2.65;	11000;occ;	79;	0;	33830
11;	4563.7;	19-AUG-2008	12:00:07;	Dark	; 52.0;	28;	12Bet Tau	; 1.65;	15200;occ;	104;	0;	33830
12;	4735.0;	19-AUG-2008	12:02:58;	Dark	; 40.0;	44;	24Gam Gem	; 1.93;	11000;occ;	80;	0;	33830
13;	4956.2;	19-AUG-2008	12:06:39;	Dark	; 62.0;	14;	58Alp Ori	; 0.87;	3000;occ;	124;	0;	33830
14;	5040.3;	19-AUG-2008	12:08:03;	Dark	; 56.0;	27;	24Gam Ori	; 1.64;	26000;occ;	112;	0;	33830
15;	5157.4;	19-AUG-2008	12:10:01;	Dark	; 53.0;	30;	46Eps Ori	; 1.69;	30000;occ;	106;	0;	33830
16;	5244.6;	19-AUG-2008	12:11:28;	Dark	; 47.5;	125;	44Iot Ori	; 2.77;	30000;occ;	95;	0;	33830
17;	5347.7;	19-AUG-2008	12:13:11;	Dark	; 58.0;	7;	19Bet Ori	; 0.10;	14000;occ;	116;	0;	33830
18;	5452.6;	19-AUG-2008	12:14:56;	Dark	; 47.0;	101;	11Alp Lep	; 2.58;	7000;occ;	94;	0;	33830
19;	5625.6;	19-AUG-2008	12:17:49;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;	33830
20;	6308.4;	19-AUG-2008	12:29:12;	Dark	; 52.0;	157;	The1Eri	; 2.91;	9300;occ;	104;	0;	33830
21;	6527.9;	19-AUG-2008	12:32:51;	Dark	; 46.5;	9;	Alp Eri	; 0.45;	24000;occ;	93;	0;	33830
22;	6878.9;	19-AUG-2008	12:38:42;	Dark	; 52.5;	84;	Alp Phe	; 2.40;	4500;occ;	105;	0;	33830
23;	7069.6;	19-AUG-2008	12:41:53;	Dark	; 39.0;	31;	Alp Gru	; 1.73;	15200;occ;	78;	0;	33830
24;	7308.9;	19-AUG-2008	12:45:52;	Dark	; 54.0;	18;	24Alp PsA	; 1.17;	9700;occ;	108;	0;	33830
25;	7633.8;	19-AUG-2008	12:51:17;	Bright;	41.0;	142;	49Del Cap	; 2.85;	8900;occ;	82;	0;	33830
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3;	1912.0;	19-AUG-2008	12:56:31;	Bright;	45.0;	162;	34Alp Aqr	; 2.94;	5350;occ;	90;	0;	33831
4;	2099.4;	19-AUG-2008	12:59:38;	Bright;	42.5;	61;	8Eps Peg	; 2.10;	3900;occ;	85;	0;	33831
5;	2494.1;	19-AUG-2008	13:06:13;	Bright;	38.5;	92;	53Eps Cyg	; 2.50;	4500;occ;	77;	0;	33831
6;	2593.8;	19-AUG-2008	13:07:53;	Bright;	37.5;	66;	37Gam Cyg	; 2.21;	5900;occ;	75;	0;	33831
7;	2686.5;	19-AUG-2008	13:09:26;	Bright;	35.0;	19;	50Alp Cyg	; 1.25;	10500;occ;	70;	0;	33831
8;	3003.5;	19-AUG-2008	13:14:43;	Bright;	38.0;	89;	5Alp Cep	; 2.45;	8000;occ;	76;	0;	33831
9;	3437.5;	19-AUG-2008	13:21:56;	Bright;	36.5;	49;	1Alp UMi	; 1.99;	6300;occ;	73;	0;	33831
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11;	4371.0;	19-AUG-2008	13:37:30;	Bright;	40.5;	107;	37The Aur	; 2.65;	11000;occ;	81;	0;	33831
12;	4564.0;	19-AUG-2008	13:40:43;	Dark	; 55.5;	28;	12Bet Tau	; 1.65;	15200;occ;	111;	0;	33831
13;	4735.5;	19-AUG-2008	13:43:35;	Dark	; 44.0;	44;	24Gam Gem	; 1.93;	11000;occ;	88;	0;	33831
14;	4956.7;	19-AUG-2008	13:47:16;	Dark	; 58.5;	14;	58Alp Ori	; 0.87;	3000;occ;	117;	0;	33831
15;	5041.1;	19-AUG-2008	13:48:40;	Dark	; 57.5;	27;	24Gam Ori	; 1.64;	26000;occ;	115;	0;	33831
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17;	5245.4;	19-AUG-2008	13:52:04;	Dark	; 48.0;	125;	44Iot Ori	; 2.77;	30000;occ;	96;	0;	33831
18;	5348.6;	19-AUG-2008	13:53:48;	Dark	; 59.5;	7;	19Bet Ori	; 0.10;	14000;occ;	119;	0;	33831
19;	5453.4;	19-AUG-2008	13:55:32;	Dark	; 48.0;	101;	11Alp Lep	; 2.58;	7000;occ;	96;	0;	33831
20;	5626.5;	19-AUG-2008	13:58:25;	Dark	; 59.0;	0;		; 0.00;	0;occ;	118;	0;	33831
21;	6309.7;	19-AUG-2008	14:09:49;	Dark	; 53.5;	157;	The1Eri	; 2.91;	9300;occ;	107;	0;	33831
22;	6528.6;	19-AUG-2008	14:13:28;	Dark	; 45.0;	9;	Alp Eri	; 0.45;	24000;occ;	90;	0;	33831
23;	6879.7;	19-AUG-2008	14:19:19;	Dark	; 54.0;	84;	Alp Phe	; 2.40;	4500;occ;	108;	0;	33831
24;	7070.0;	19-AUG-2008	14:22:29;	Dark	; 39.5;	31;	Alp Gru	; 1.73;	15200;occ;	79;	0;	33831
25;	7309.3;	19-AUG-2008	14:26:28;	Dark	; 52.5;	18;	24Alp PsA	; 1.17;	9700;occ;	105;	0;	33831
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2;	1799.5;	19-AUG-2008	14:35:14;	Bright;	40.5;	154;	22Bet Aqr	; 2.90;	5700;occ;	81;	0;	33832
3;	1911.9;	19-AUG-2008	14:37:07;	Bright;	45.5;	162;	34Alp Aqr	; 2.94;	5350;occ;	91;	0;	33832
4;	2099.3;	19-AUG-2008	14:40:14;	Bright;	42.5;	61;	8Eps Peg	; 2.10;	3900;occ;	85;	0;	33832
5;	2494.0;	19-AUG-2008	14:46:49;	Bright;	37.5;	92;	53Eps Cyg	; 2.50;	4500;occ;	75;	0;	33832
6;	2593.8;	19-AUG-2008	14:48:29;	Bright;	35.5;	66;	37Gam Cyg	; 2.21;	5900;occ;	71;	0;	33832
7;	2686.4;	19-AUG-2008	14:50:01;	Bright;	37.5;	19;	50Alp Cyg	; 1.25;	10500;occ;	75;	0;	33832
8;	3003.4;	19-AUG-2008	14:55:18;	Bright;	37.0;	89;	5Alp Cep	; 2.45;	8000;occ;	74;	0;	33832
9;	3437.5;	19-AUG-2008	15:02:32;	Bright;	34.0;	49;	1Alp UMi	; 1.99;	6300;occ;	68;	0;	33832
10;	4188.3;	19-AUG-2008	15:15:03;	Bright;	51.0;	6;	13Alp Aur	; 0.08;	3400;occ;	102;	0;	33832
11;	4371.1;	19-AUG-2008	15:18:06;	Bright;	39.0;	107;	37The Aur	; 2.65;	11000;occ;	78;	0;	33832
12;	4564.3;	19-AUG-2008	15:21:19;	Dark	; 51.5;	28;	12Bet Tau	; 1.65;	15200;occ;	103;	0;	33832
13;	4735.8;	19-AUG-2008	15:24:11;	Dark	; 42.5;	44;	24Gam Gem	; 1.93;	11000;occ;	85;	0;	33832
14;	4957.3;	19-AUG-2008	15:27:52;	Dark	; 55.5;	14;	58Alp Ori	; 0.87;	3000;occ;	111;	0;	33832
15;	5041.8;	19-AUG-2008	15:29:17;	Dark	; 57.5;	27;	24Gam Ori	; 1.64;	26000;occ;	115;	0;	33832
16;	5159.0;	19-AUG-2008	15:31:14;	Dark	; 52.5;	30;	46Eps Ori	; 1.69;	30000;occ;	105;	0;	33832
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23; 6880.6; 19-AUG-2008 15:59:55; Dark ; 52.0; 84; Alp Phe ; 2.40; 4500;occ; 104; 0;33832
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7; 3384.7; 23-AUG-2008 12:55:11; Bright; 88.0; 49; 1Alp UMi ; 1.99; 6300;occ; 176; 0;33888
8; 4158.7; 23-AUG-2008 13:08:05; Bright; 99.5; 42; 34Bet Aur ; 1.90; 10200;occ; 199; 0;33888
9; 4313.6; 23-AUG-2008 13:10:40; Bright; 35.0; 107; 37The Aur ; 2.65; 11000;occ; 70; 0;33888
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13; 5259.1; 23-AUG-2008 13:26:26; Dark ; 96.5; 1; 9Alp CMa ; -1.44; 11000;occ; 193; 0;33888
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18; 2990.6; 24-AUG-2008 02:13:24; Bright; 35.0; 89; 5Alp Cep ; 2.45; 8000;occ; 70; 0;33896
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