

GOMOS Daily Report 16-AUG-2008

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

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

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

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

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

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

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

[4. Dark Charge monitoring](#)

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

[4.2 Plot of Dark Charge](#)

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

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

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

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

[6. Star tangent altitude lost](#)

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

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

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

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

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

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

[7.2 SATU Noise Equivalent Angle statistics](#)

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

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

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

[Level 2 products](#)

This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	18AUG2008 05:32:25
Data source version	GOMOS/5.00
Start time of products	16AUG2008 00:04:01
Stop time of products	16AUG2008 03:37:33
Store outputs in DB	Yes
Nb of level 1b prods	48
Nb of prods with errors	0

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

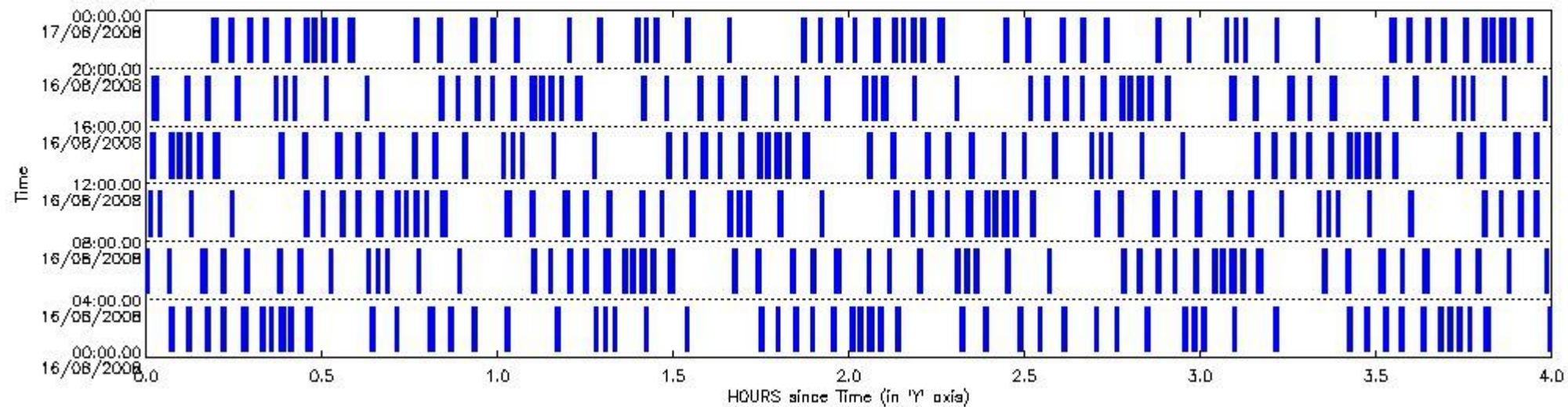
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

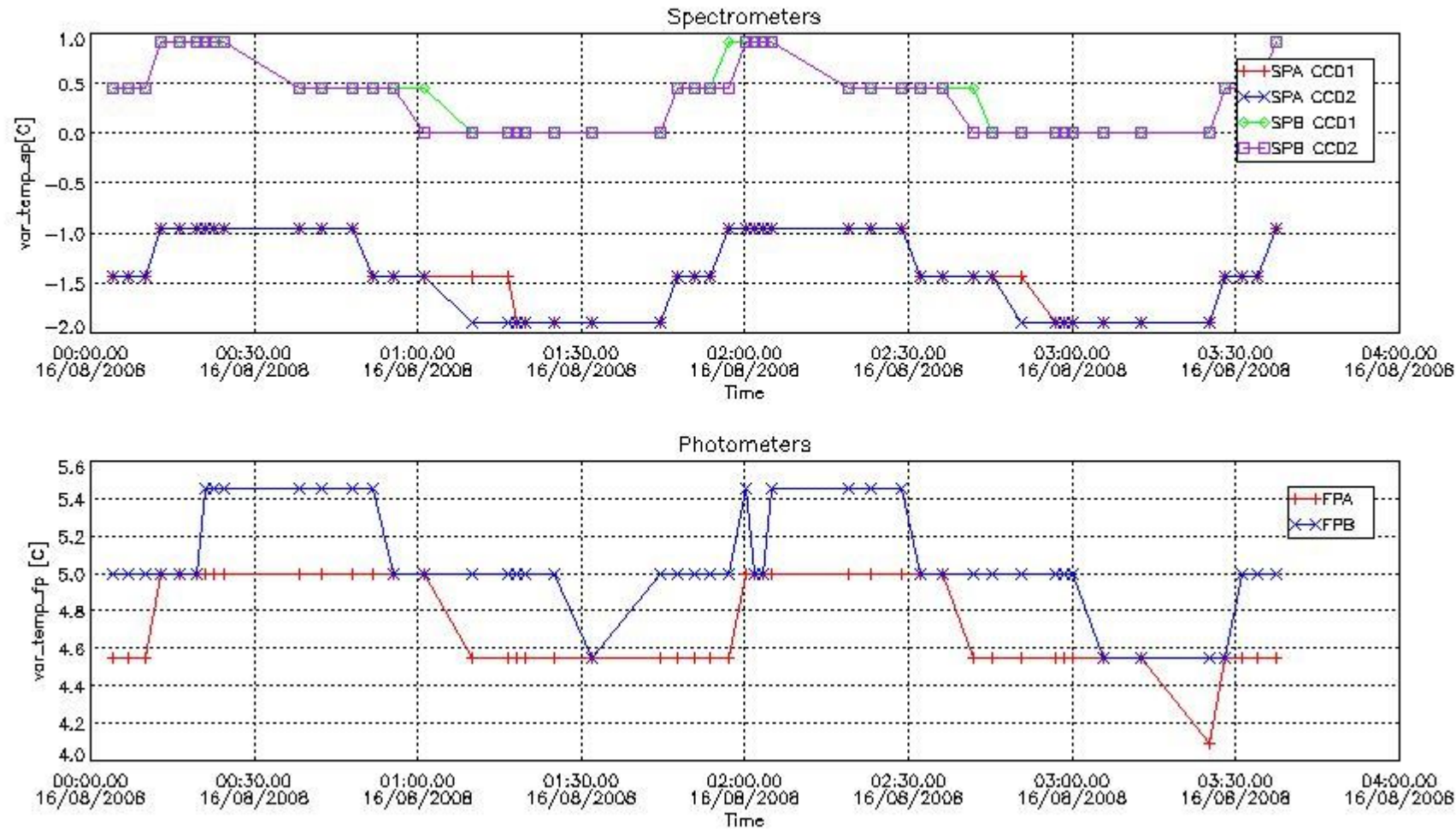
No missing products.

2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20080816_000401_000000462071_00159_33780_2813.N1	16-AUG-2008 00:04:01	Bright	46.000	6	13Alp Aur	0.080000	3400.0	92	33780	No
2	GOM_TRA_1PNPDE20080816_000654_000000402071_00159_33780_2814.N1	16-AUG-2008 00:06:54	Bright	39.500	107	37The Aur	2.6490	11000.	79	33780	No
3	GOM_TRA_1PNPDE20080816_001001_000000522071_00159_33780_2815.N1	16-AUG-2008 00:10:01	Twilight	51.500	28	12Bet Tau	1.6500	15200.	103	33780	No
4	GOM_TRA_1PNPDE20080816_001249_000000412071_00159_33780_2816.N1	16-AUG-2008 00:12:49	Twilight	41.000	44	24Gam Gem	1.9280	11000.	82	33780	No
5	GOM_TRA_1PNPDE20080816_001620_000000542071_00159_33780_2817.N1	16-AUG-2008 00:16:20	Dark	54.000	14	58Alp Ori	0.87000	3000.0	108	33780	No
6	GOM_TRA_1PNPDE20080816_001932_000000492071_00159_33780_2818.N1	16-AUG-2008 00:19:32	Dark	48.500	30	46Eps Ori	1.6940	30000.	97	33780	No
7	GOM_TRA_1PNPDE20080816_002057_000000432071_00159_33780_2819.N1	16-AUG-2008 00:20:57	Dark	43.000	125	44Iot Ori	2.7700	30000.	86	33780	No
8	GOM_TRA_1PNPDE20080816_002232_000000662071_00159_33780_2947.N1	16-AUG-2008 00:22:32	Dark	66.000	7	19Bet Ori	0.10000	14000.	132	33780	No
9	GOM_TRA_1PNPDE20080816_002424_000000442071_00159_33780_2948.N1	16-AUG-2008 00:24:24	Dark	43.500	101	11Alp Lep	2.5820	7000.0	87	33780	No
10	GOM_TRA_1PNPDE20080816_003816_000000512071_00160_33781_2949.N1	16-AUG-2008 00:38:16	Dark	50.500	157	The1Eri	2.9060	9300.0	101	33781	No
11	GOM_TRA_1PNPDE20080816_004221_000000462071_00160_33781_2950.N1	16-AUG-2008 00:42:21	Dark	46.000	9	Alp Eri	0.45300	24000.	92	33781	No
12	GOM_TRA_1PNPDE20080816_004805_000000622071_00160_33781_2951.N1	16-AUG-2008 00:48:05	Straylight	62.000	84	Alp Phe	2.3970	4500.0	124	33781	No

13	GOM_TRA_1PNPDE20080816_005139_000000422071_00160_33781_2952.N1	16-AUG-2008 00:51:39	Straylight	42.000	31	Alp Gru	1.7340	15200.	84	33781	No
14	GOM_TRA_1PNPDE20080816_005536_000000572071_00160_33781_2953.N1	16-AUG-2008 00:55:36	Twilight_stray	57.000	18	24Alp PsA	1.1660	9700.0	114	33781	No
15	GOM_TRA_1PNPDE20080816_010115_000000452071_00160_33781_2954.N1	16-AUG-2008 01:01:15	Bright	45.000	142	49Del Cap	2.8500	8900.0	90	33781	No
16	GOM_TRA_1PNPDE20080816_010956_000000442071_00160_33781_2955.N1	16-AUG-2008 01:09:56	Bright	44.000	61	8Eps Peg	2.1000	3900.0	88	33781	No
17	GOM_TRA_1PNPDE20080816_011625_000000362071_00160_33781_2956.N1	16-AUG-2008 01:16:25	Bright	36.000	92	53Eps Cyg	2.5000	4500.0	72	33781	No
18	GOM_TRA_1PNPDE20080816_011801_000000382071_00160_33781_2957.N1	16-AUG-2008 01:18:01	Bright	38.000	66	37Gam Cyg	2.2080	5900.0	76	33781	No
19	GOM_TRA_1PNPDE20080816_011937_000000392071_00160_33781_2958.N1	16-AUG-2008 01:19:37	Bright	39.000	19	50Alp Cyg	1.2460	10500.	78	33781	No
20	GOM_TRA_1PNPDE20080816_012459_000000382071_00160_33781_2959.N1	16-AUG-2008 01:24:59	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	33781	No
21	GOM_TRA_1PNPDE20080816_013201_000000342071_00160_33781_2960.N1	16-AUG-2008 01:32:01	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	33781	No
22	GOM_TRA_1PNPDE20080816_014436_000000492071_00160_33781_2961.N1	16-AUG-2008 01:44:36	Bright	48.500	6	13Alp Aur	0.080000	3400.0	97	33781	No
23	GOM_TRA_1PNPDE20080816_014730_000000392071_00160_33781_2962.N1	16-AUG-2008 01:47:30	Bright	39.000	107	37The Aur	2.6490	11000.	78	33781	No
24	GOM_TRA_1PNPDE20080816_015037_000000502071_00160_33781_2963.N1	16-AUG-2008 01:50:37	Twilight_stray	50.000	28	12Bet Tau	1.6500	15200.	100	33781	No
25	GOM_TRA_1PNPDE20080816_015325_000000382071_00160_33781_2964.N1	16-AUG-2008 01:53:25	Twilight_stray	37.500	44	24Gam Gem	1.9280	11000.	75	33781	No
26	GOM_TRA_1PNPDE20080816_015656_000000562071_00160_33781_2965.N1	16-AUG-2008 01:56:56	Dark	56.000	14	58Alp Ori	0.87000	3000.0	112	33781	No
27	GOM_TRA_1PNPDE20080816_020009_000000472071_00160_33781_3092.N1	16-AUG-2008 02:00:09	Dark	47.000	30	46Eps Ori	1.6940	30000.	94	33781	No
28	GOM_TRA_1PNPDE20080816_020134_000000462071_00160_33781_3093.N1	16-AUG-2008 02:01:34	Dark	46.000	125	44lot Ori	2.7700	30000.	92	33781	No
29	GOM_TRA_1PNPDE20080816_020309_000000562071_00160_33781_3094.N1	16-AUG-2008 02:03:09	Dark	56.000	7	19Bet Ori	0.10000	14000.	112	33781	No
30	GOM_TRA_1PNPDE20080816_020500_000000482071_00160_33781_3095.N1	16-AUG-2008 02:05:00	Dark	47.500	101	11Alp Lep	2.5820	7000.0	95	33781	No
31	GOM_TRA_1PNPDE20080816_021853_000000532071_00161_33782_3096.N1	16-AUG-2008 02:18:53	Dark	52.500	157	The1Eri	2.9060	9300.0	105	33782	No
32	GOM_TRA_1PNPDE20080816_022258_000000552071_00161_33782_3097.N1	16-AUG-2008 02:22:58	Dark	54.500	9	Alp Eri	0.45300	24000.	109	33782	No
33	GOM_TRA_1PNPDE20080816_022842_000000552071_00161_33782_3098.N1	16-AUG-2008 02:28:42	Straylight	54.500	84	Alp Phe	2.3970	4500.0	109	33782	No
34	GOM_TRA_1PNPDE20080816_023215_000000422071_00161_33782_3099.N1	16-AUG-2008 02:32:15	Straylight	42.000	31	Alp Gru	1.7340	15200.	84	33782	No
35	GOM_TRA_1PNPDE20080816_023612_000000542071_00161_33782_3100.N1	16-AUG-2008 02:36:12	Twilight_stray	54.000	18	24Alp PsA	1.1660	9700.0	108	33782	No
36	GOM_TRA_1PNPDE20080816_024151_000000442071_00161_33782_3101.N1	16-AUG-2008 02:41:51	Bright	43.500	142	49Del Cap	2.8500	8900.0	87	33782	No
37	GOM_TRA_1PNPDE20080816_024519_000000422071_00161_33782_3102.N1	16-AUG-2008 02:45:19	Bright	41.500	154	22Bet Aqr	2.8990	5700.0	83	33782	No
38	GOM_TRA_1PNPDE20080816_025032_000000442071_00161_33782_3103.N1	16-AUG-2008 02:50:32	Bright	44.000	61	8Eps Peg	2.1000	3900.0	88	33782	No
39	GOM_TRA_1PNPDE20080816_025701_000000392071_00161_33782_3104.N1	16-AUG-2008 02:57:01	Bright	38.500	92	53Eps Cyg	2.5000	4500.0	77	33782	No
40	GOM_TRA_1PNPDE20080816_025836_000000392071_00161_33782_3105.N1	16-AUG-2008 02:58:36	Bright	38.500	66	37Gam Cyg	2.2080	5900.0	77	33782	No
41	GOM_TRA_1PNPDE20080816_030013_000000392071_00161_33782_3106.N1	16-AUG-2008 03:00:13	Bright	38.500	19	50Alp Cyg	1.2460	10500.	77	33782	No
42	GOM_TRA_1PNPDE20080816_030534_000000352071_00161_33782_3107.N1	16-AUG-2008 03:05:34	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	33782	No
43	GOM_TRA_1PNPDE20080816_031237_000000362071_00161_33782_3108.N1	16-AUG-2008 03:12:37	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	33782	No
44	GOM_TRA_1PNPDE20080816_032512_000000492071_00161_33782_3251.N1	16-AUG-2008 03:25:12	Bright	49.000	6	13Alp Aur	0.080000	3400.0	98	33782	No
45	GOM_TRA_1PNPDE20080816_032806_000000482071_00161_33782_3252.N1	16-AUG-2008 03:28:06	Bright	48.000	107	37The Aur	2.6490	11000.	96	33782	No
46	GOM_TRA_1PNPDE20080816_033113_000000502071_00161_33782_3253.N1	16-AUG-2008 03:31:13	Twilight_stray	50.000	28	12Bet Tau	1.6500	15200.	100	33782	No
47	GOM_TRA_1PNPDE20080816_033401_000000452071_00161_33782_3254.N1	16-AUG-2008 03:34:01	Twilight_stray	44.500	44	24Gam Gem	1.9280	11000.	89	33782	No
48	GOM_TRA_1PNPDE20080816_033733_000000562071_00161_33782_3255.N1	16-AUG-2008 03:37:33	Dark	56.000	14	58Alp Ori	0.87000	3000.0	112	33782	No

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



4. Overview of dark signal processing per product

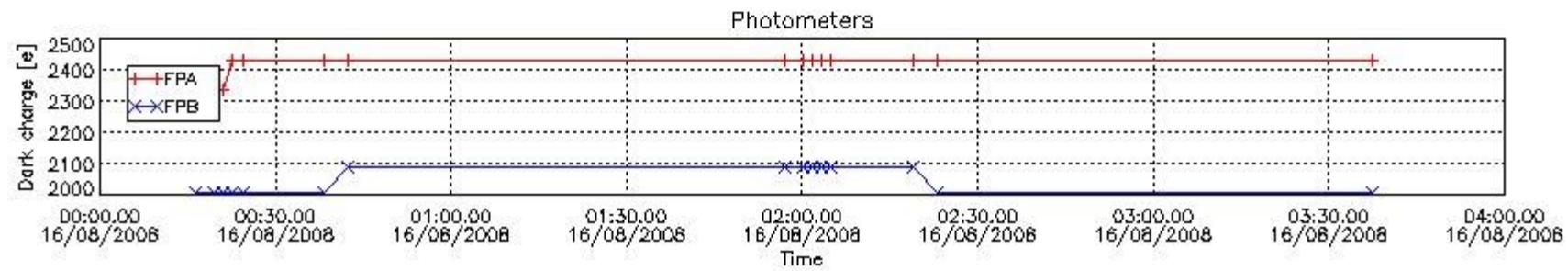
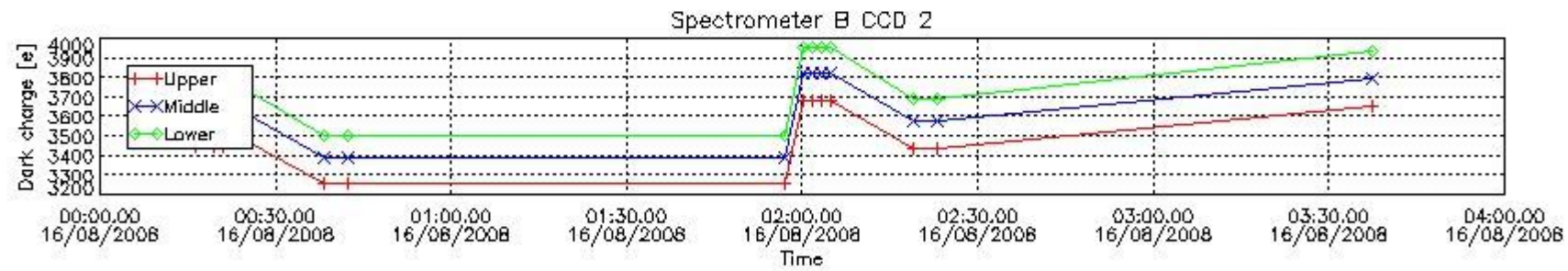
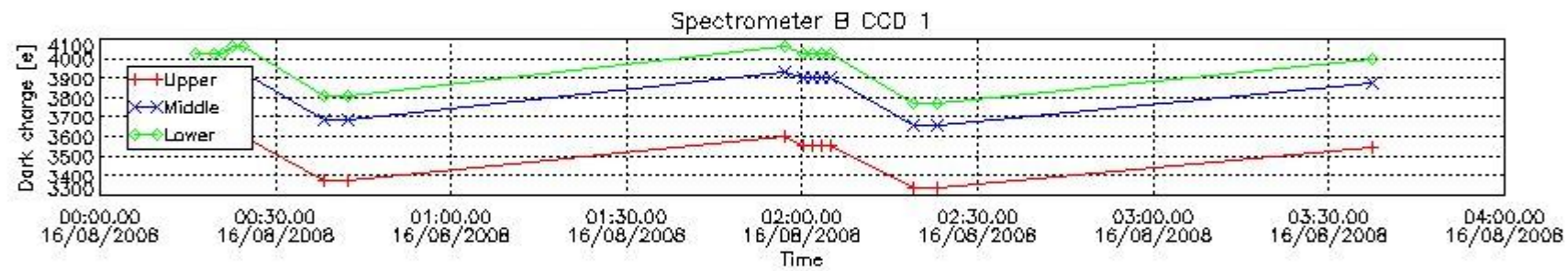
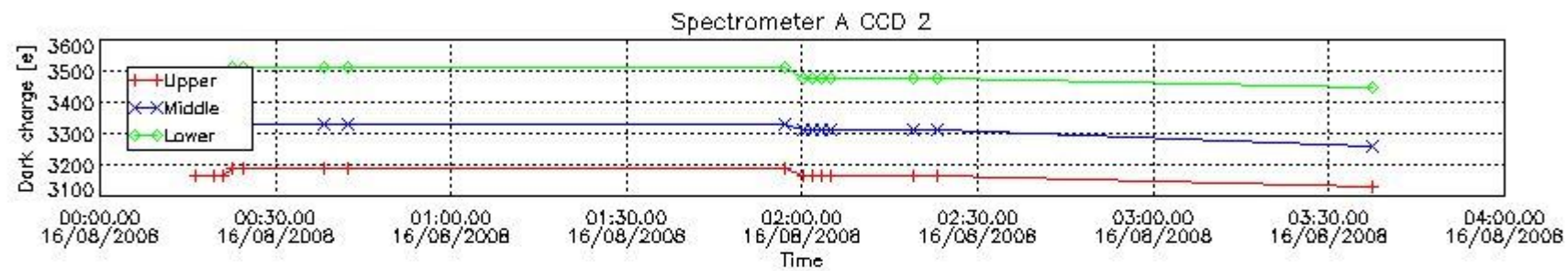
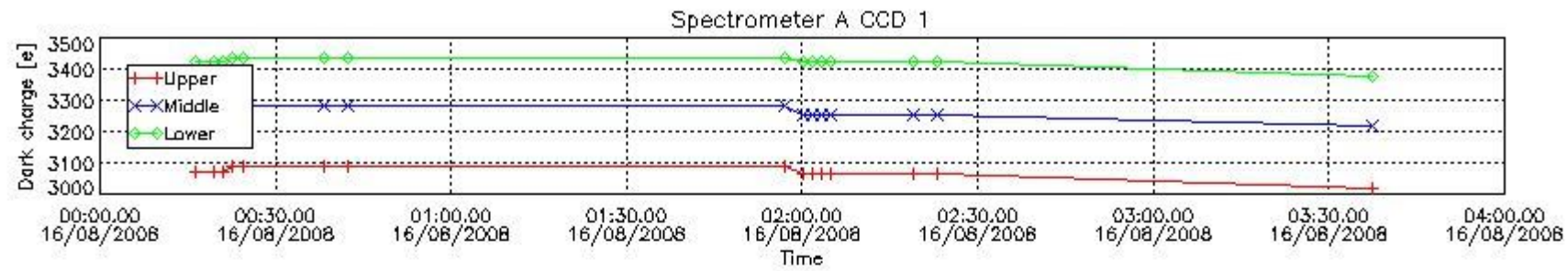
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20080816_000401_000000462071_00159_33780_2813.N1	DC map used
GOM_TRA_1PNPDE20080816_000654_000000402071_00159_33780_2814.N1	DC map used
GOM_TRA_1PNPDE20080816_001001_000000522071_00159_33780_2815.N1	DC map used
GOM_TRA_1PNPDE20080816_001249_000000412071_00159_33780_2816.N1	DC map used
GOM_TRA_1PNPDE20080816_001620_000000542071_00159_33780_2817.N1	DC map used
GOM_TRA_1PNPDE20080816_001932_000000492071_00159_33780_2818.N1	DC map used
GOM_TRA_1PNPDE20080816_002057_000000432071_00159_33780_2819.N1	DC map used

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



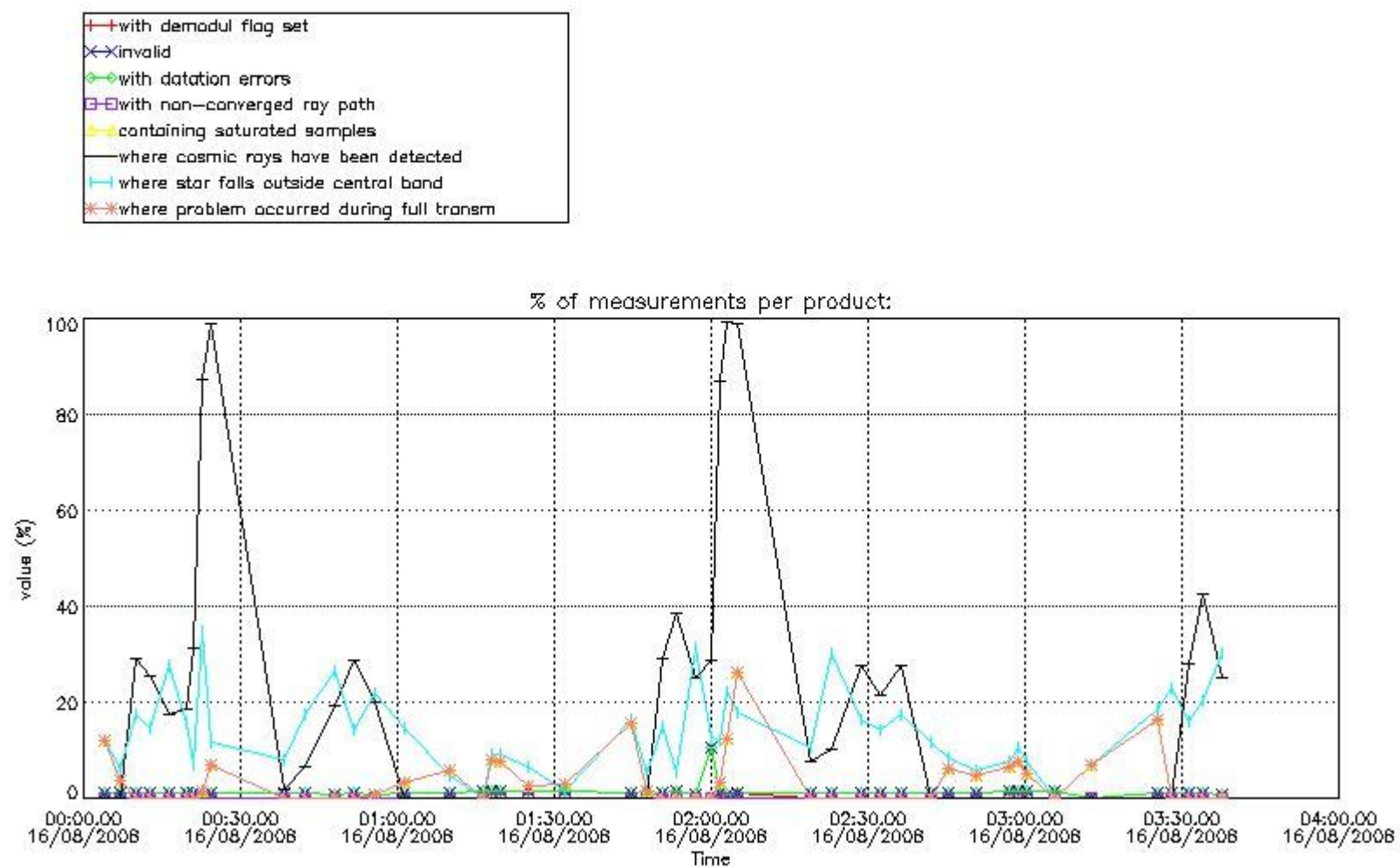
5. Demodulation flag and quality information monitoring

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.

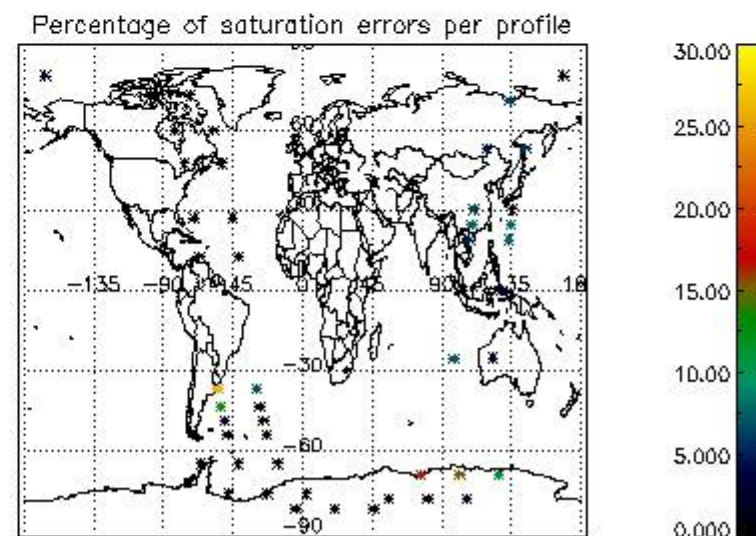
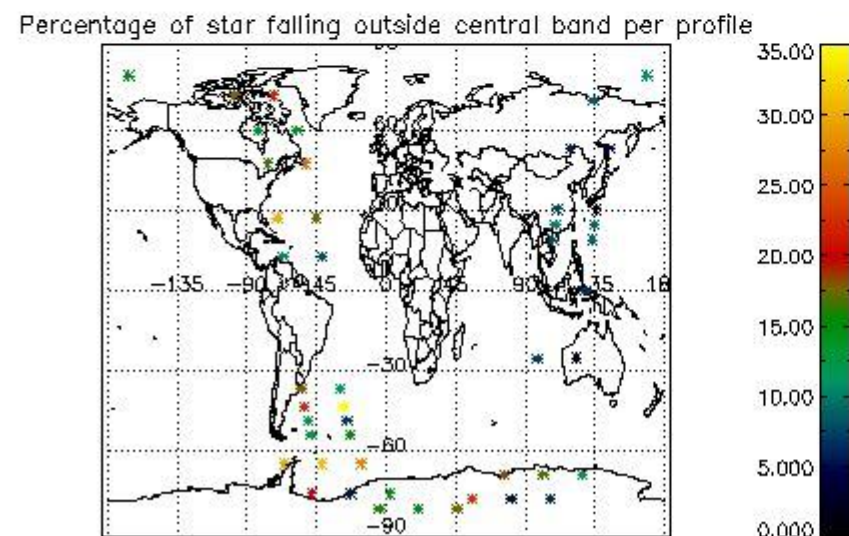
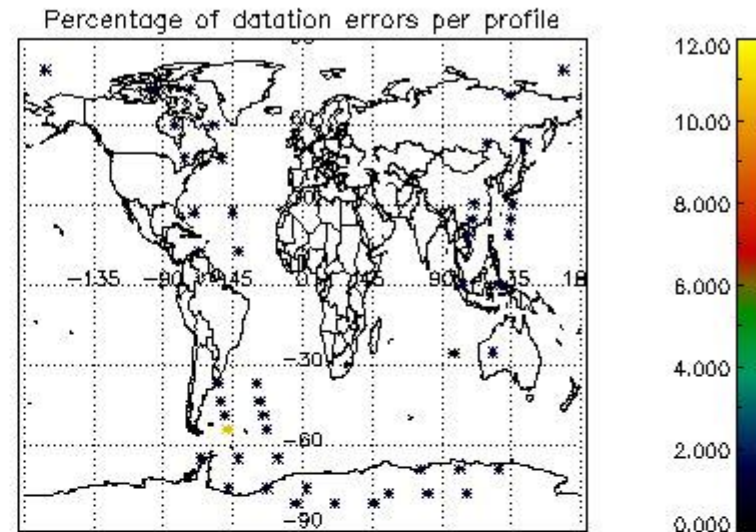
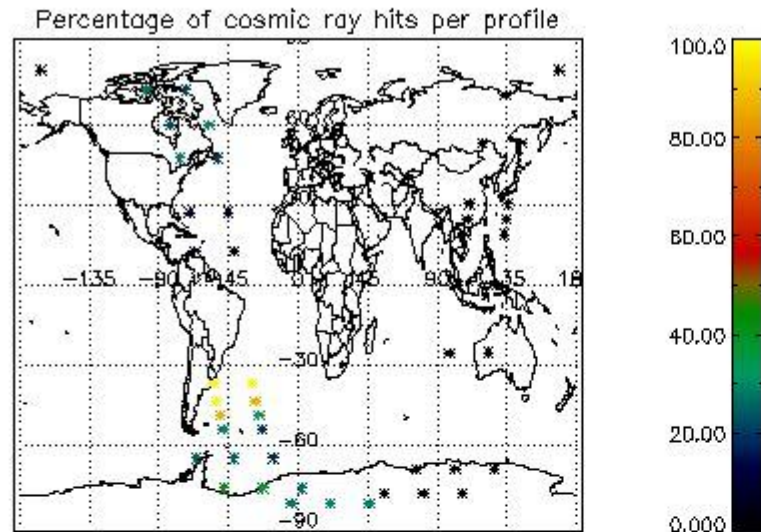
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	20.8333 %
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)



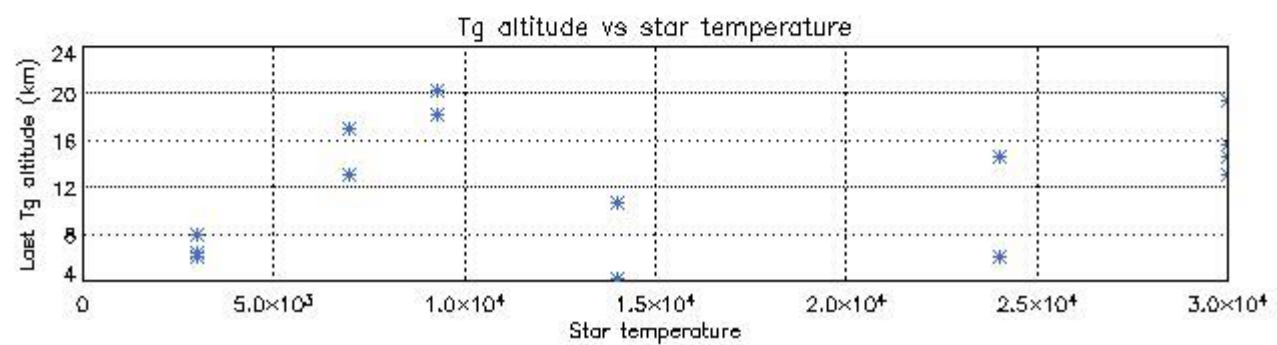
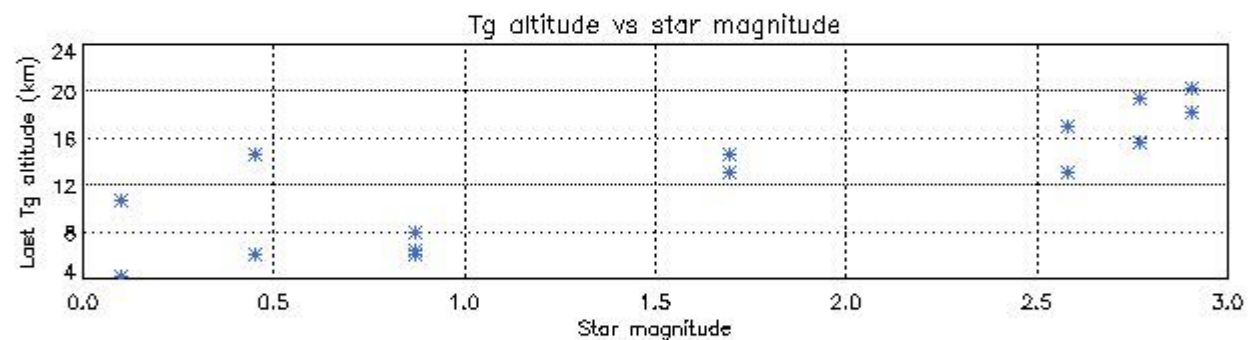
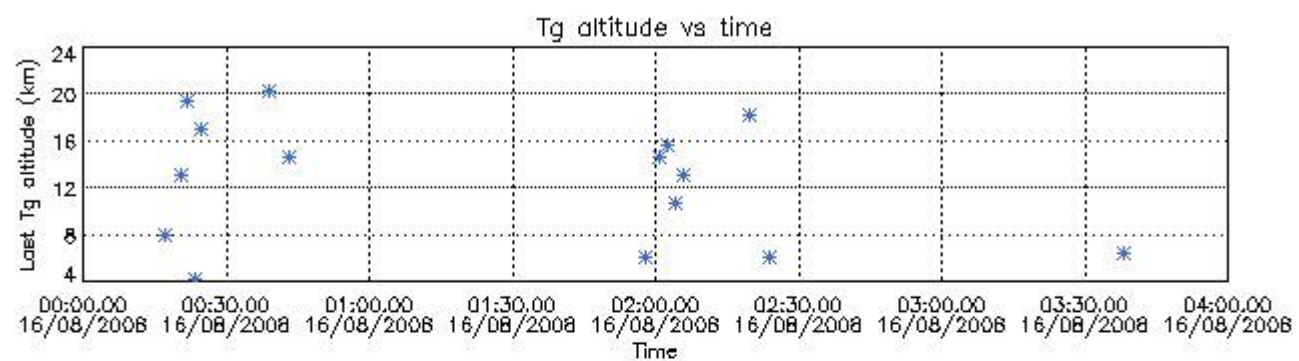
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.480	19.307	NaN
St. deviation:	5.2895	3.9455	NaN
Maximum:	20.163	27.436	NaN
Minimum:	4.1885	11.718	NaN
Number of data:	15.000	21.000	NaN

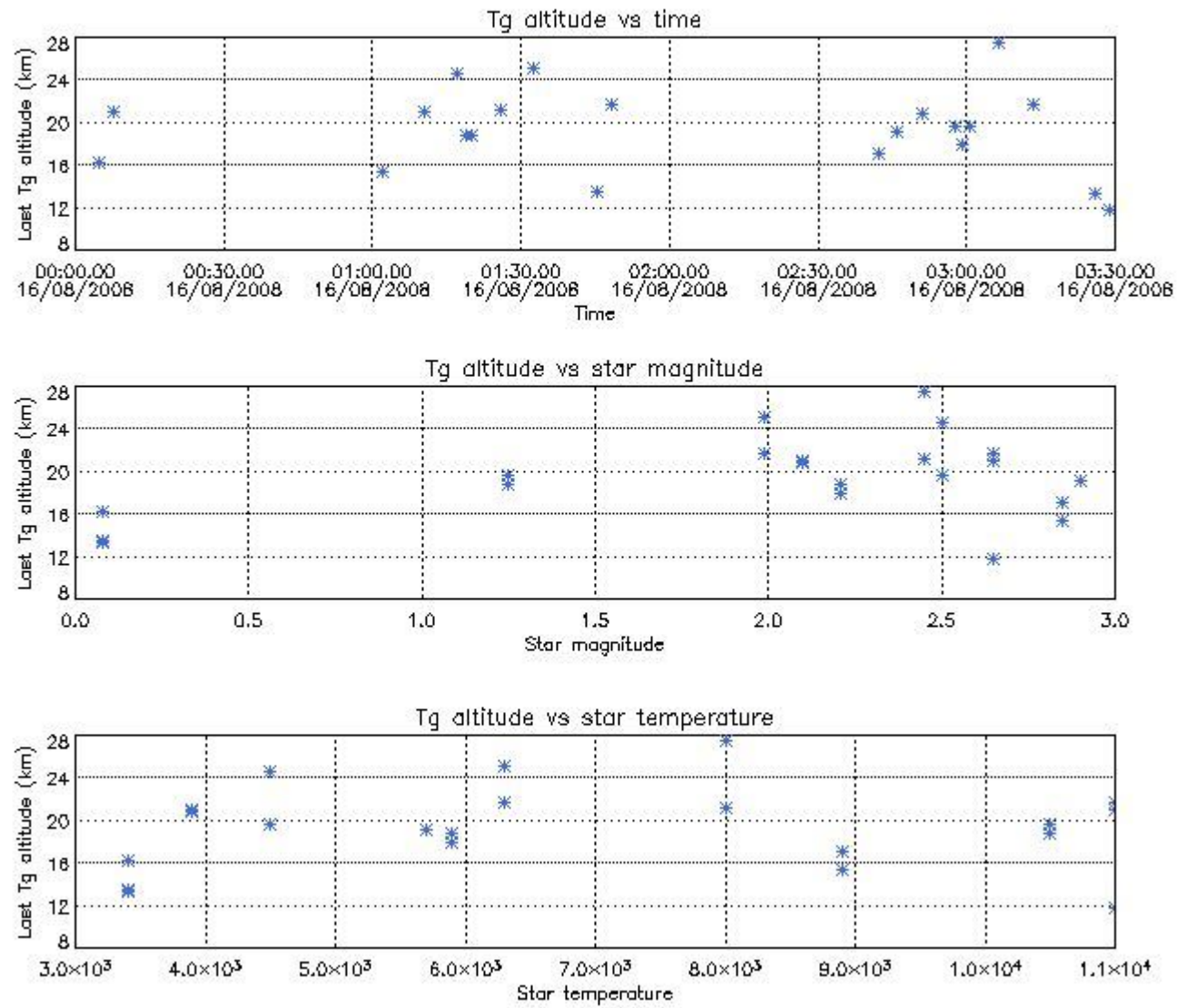
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

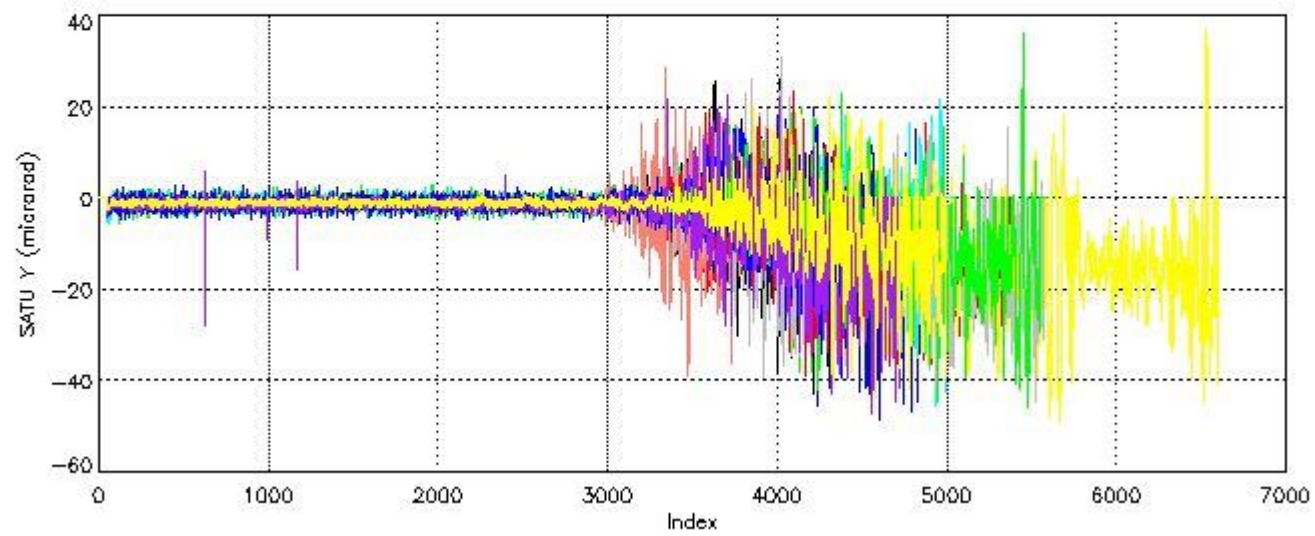
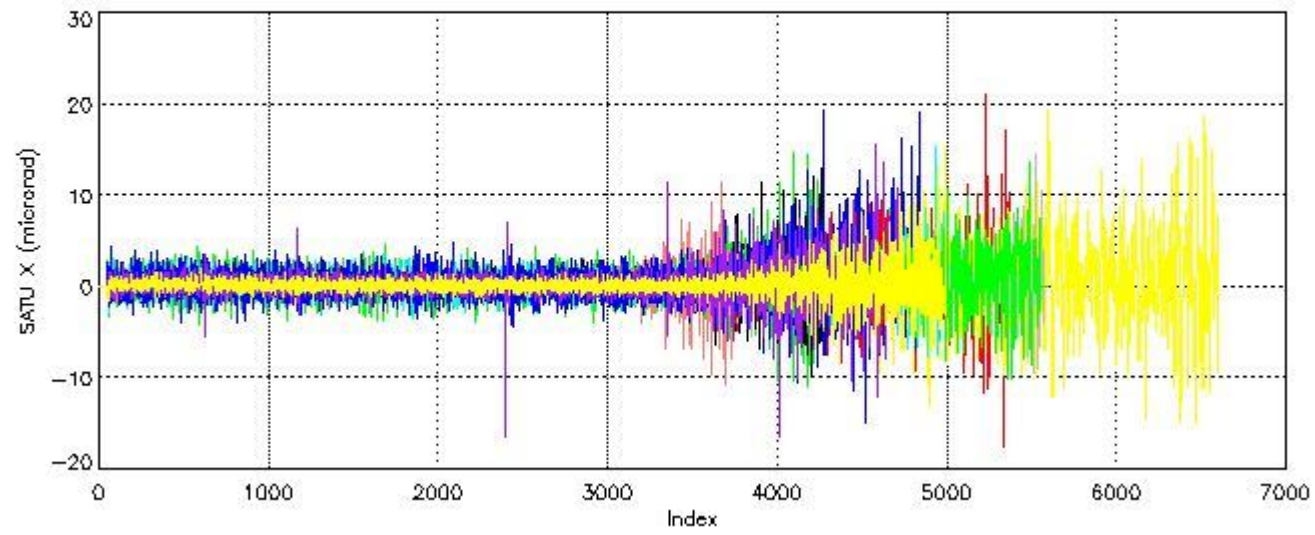


7. Star Acquisition and Tracking Unit (SATU)

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:	0.25443	-1.1918	0.23428	-1.2468
St. deviation:	0.53742	0.69903	0.63917	0.72812
Maximum:	4.4000	5.7000	4.0000	2.4000
Minimum:	-5.5000	-27.800	-3.5000	-6.4000

Number of data:	15700.	15700.	19150.	19150.
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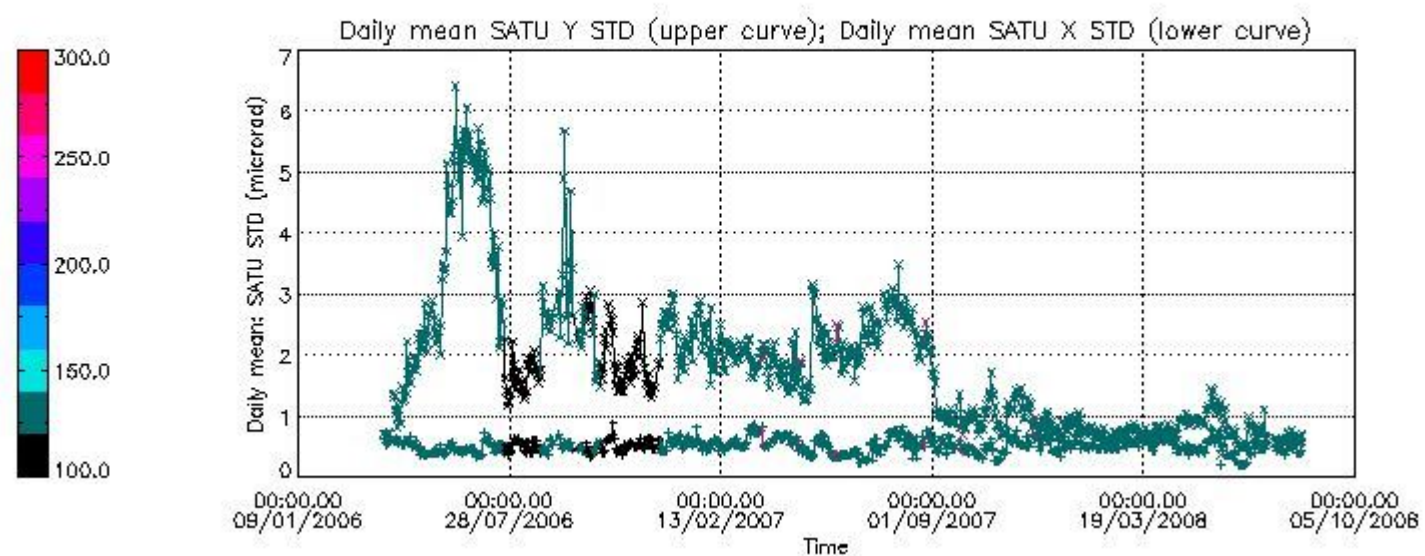
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

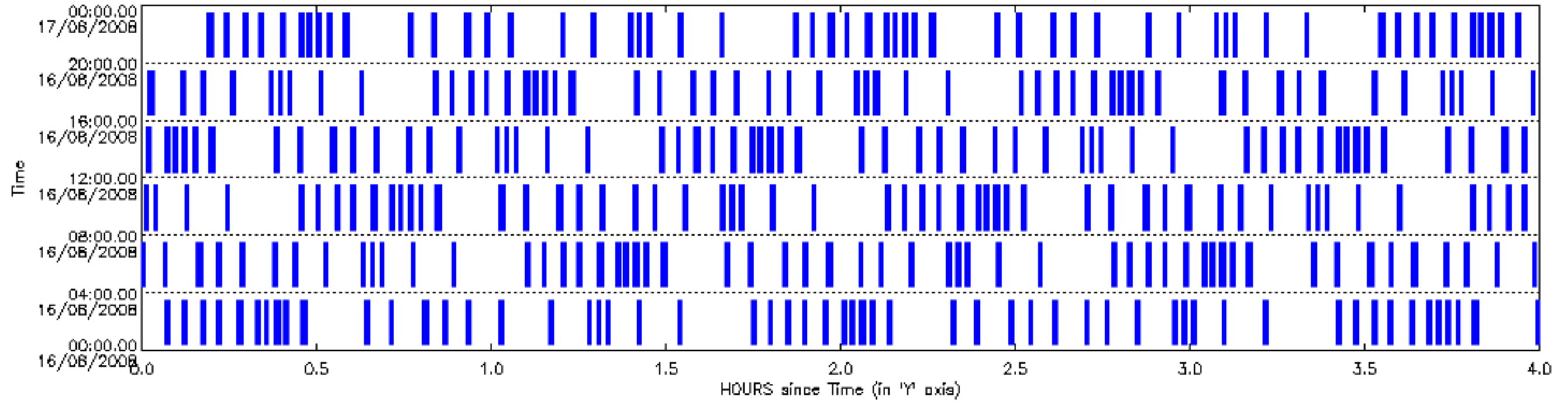
Lower curve: STD of SATU X axis

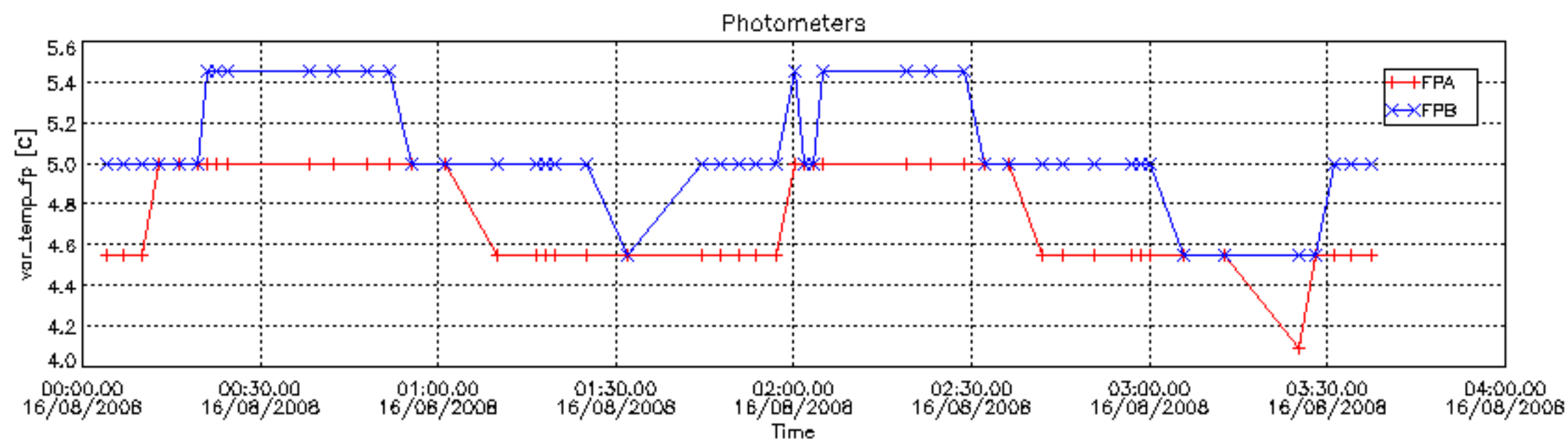
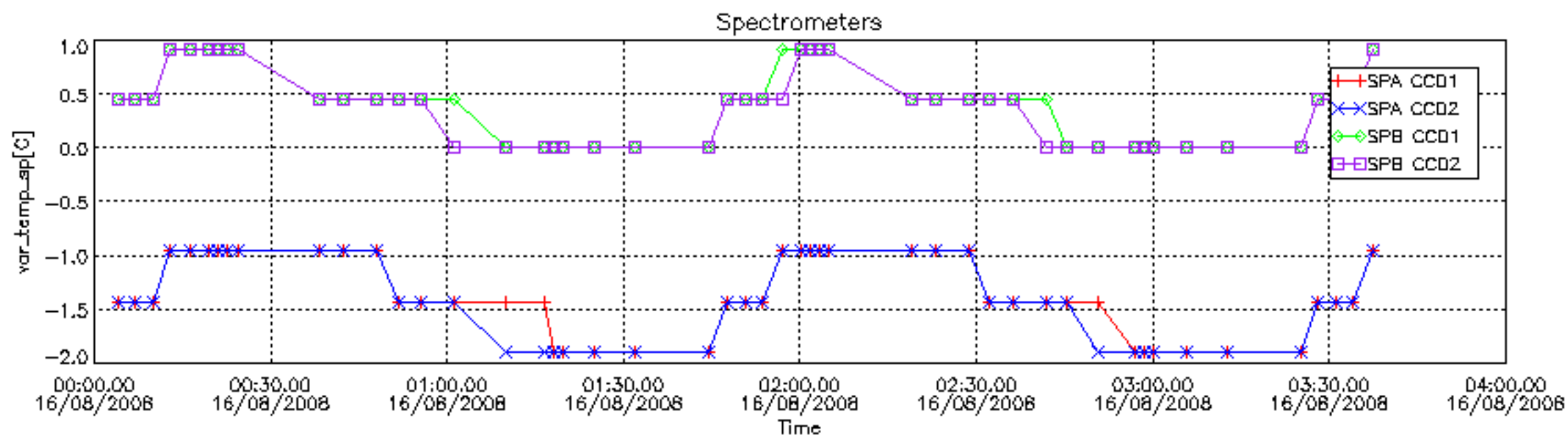


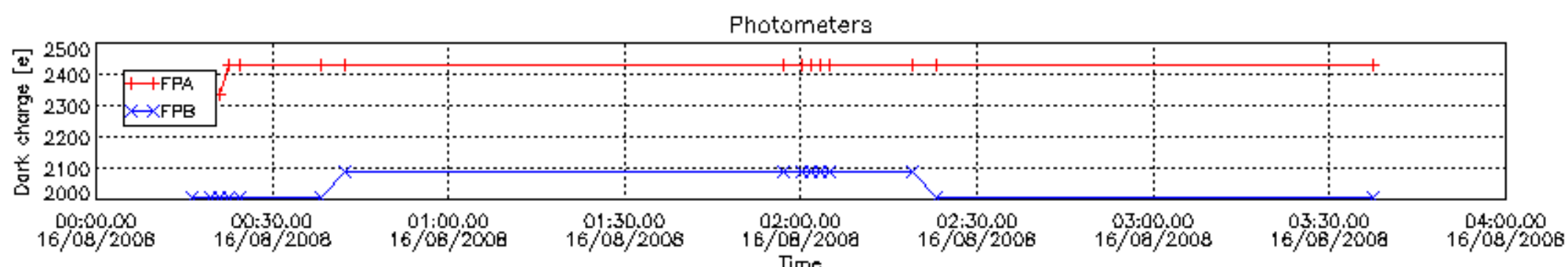
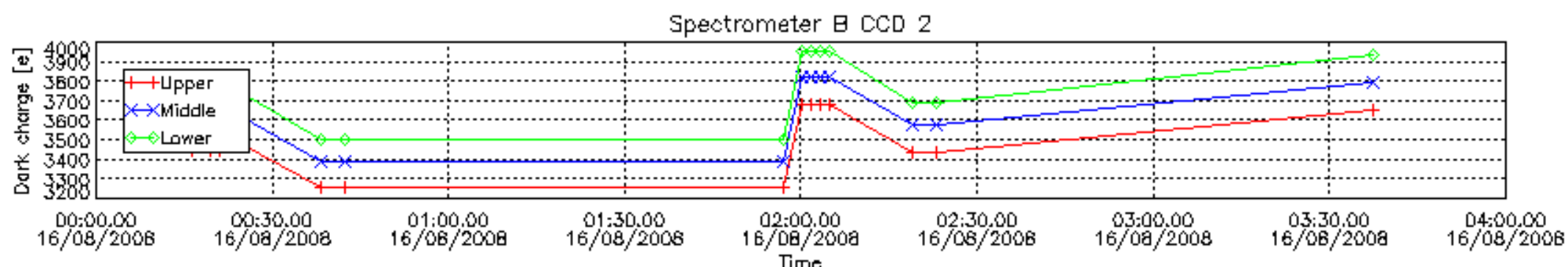
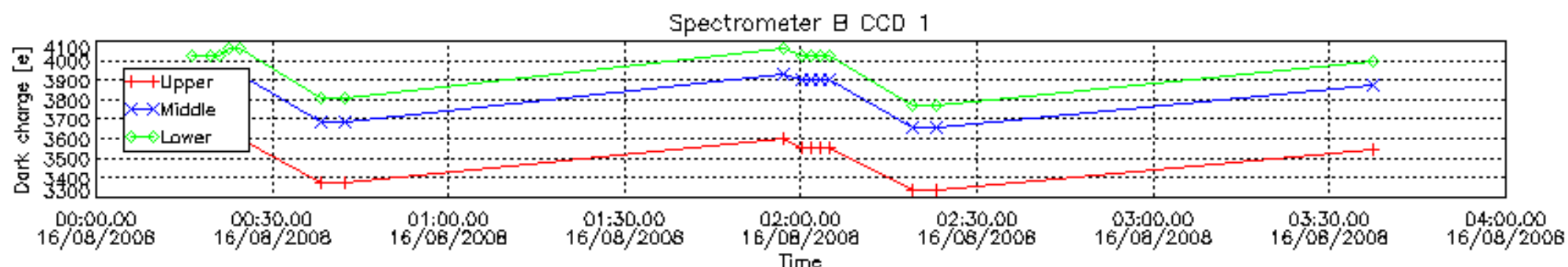
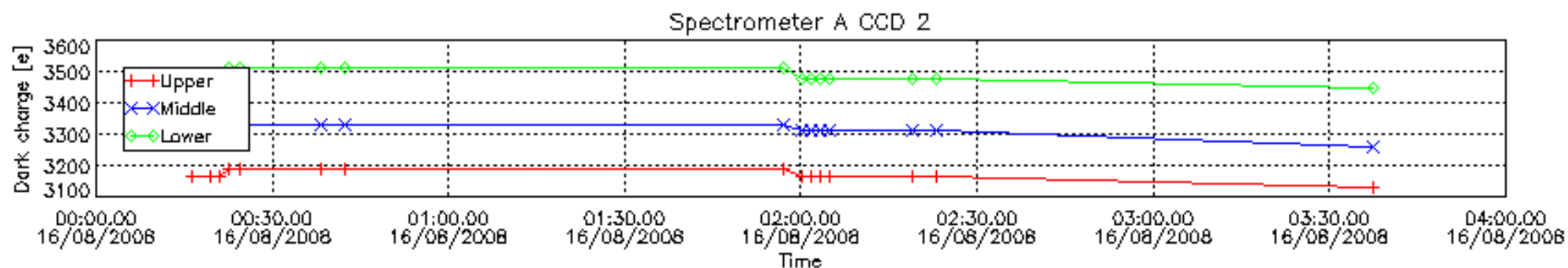
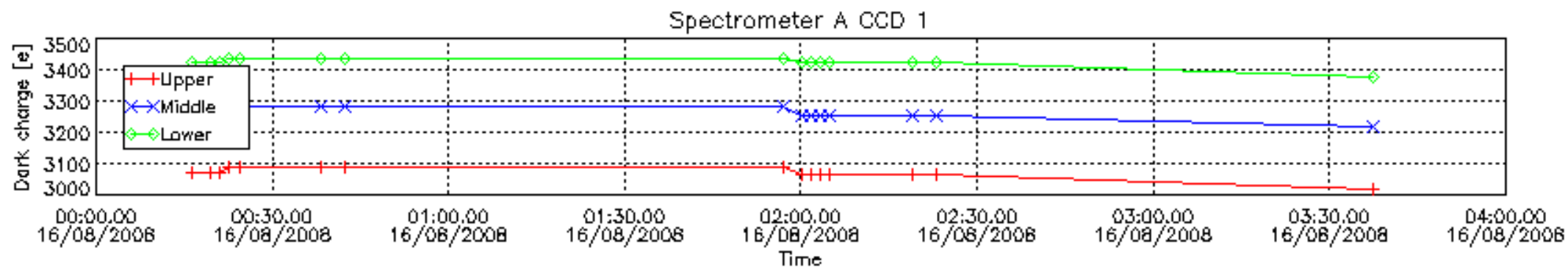
8. Auxiliary Data Files used for the production reported in section 2.4

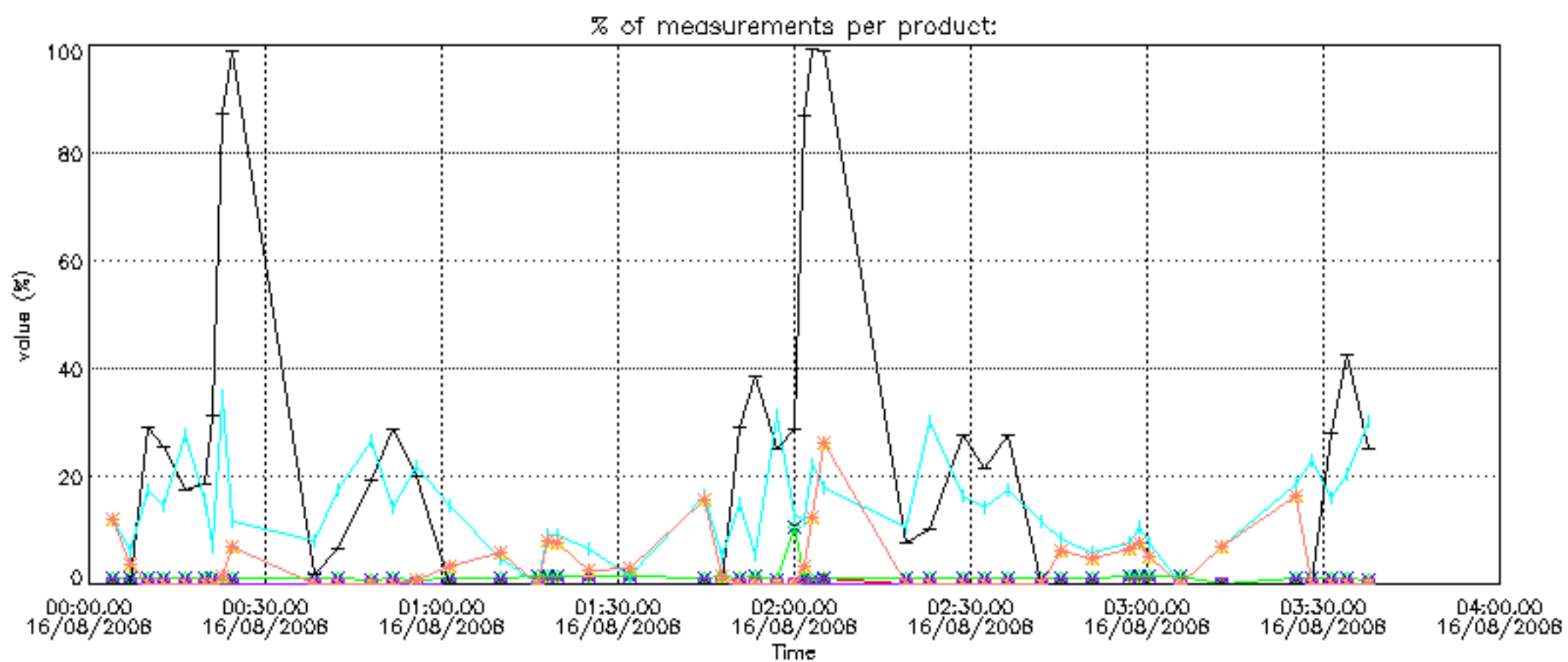
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	16-AUG-2008 00:04:01
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080811_100211_20080809_000000_20100101_000000	1	16-AUG-2008 00:04:01
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	16-AUG-2008 00:04:01
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	16-AUG-2008 00:04:01
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	16-AUG-2008 00:04:01
ECMWF_FILE	AUX_ECF_AXNECM20080815_072110_20080815_210000_20080816_090000	1	16-AUG-2008 00:04:01
ECMWF_FILE	AUX_ECF_AXNECM20080815_190112_20080816_030000_20080816_150000	44	16-AUG-2008 03:25:12
OPTIONAL_ECMWF_FILE	MISSING	1	16-AUG-2008 00:04:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080815_205456_000060572071_00157_33778_6161.N1	1	16-AUG-2008 00:04:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080815_224111_000057382071_00158_33779_6162.N1	8	16-AUG-2008 00:22:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080816_002209_000054192071_00159_33780_6163.N1	27	16-AUG-2008 02:00:09
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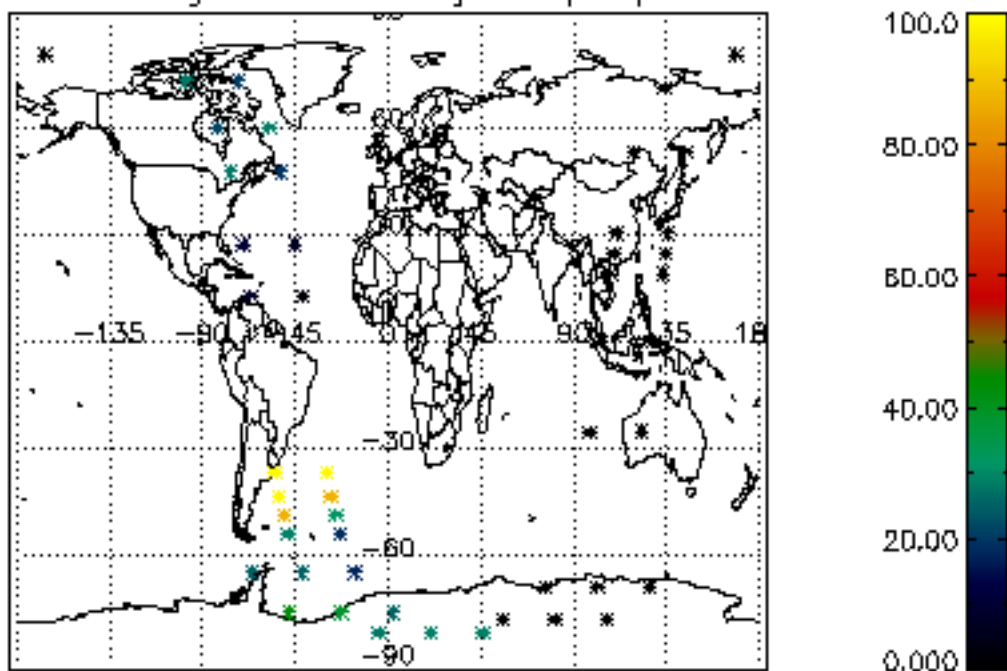




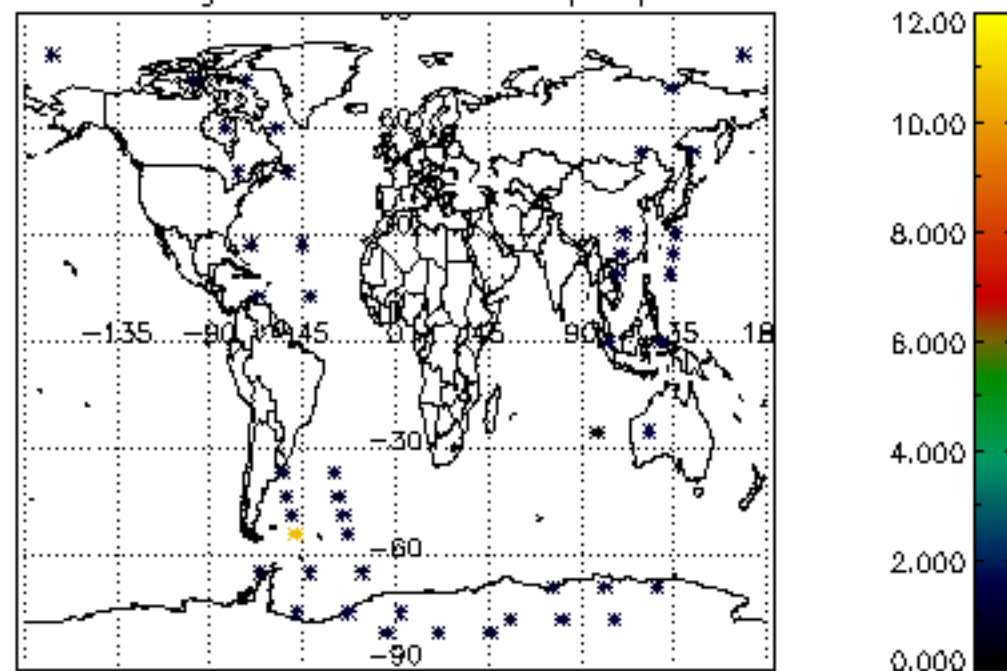




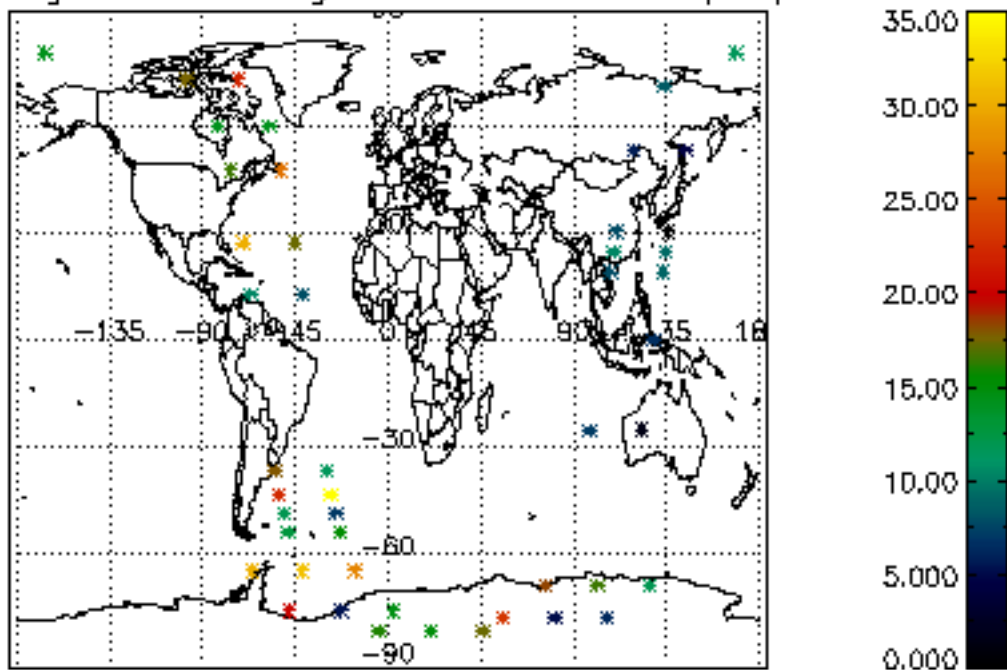
Percentage of cosmic ray hits per profile



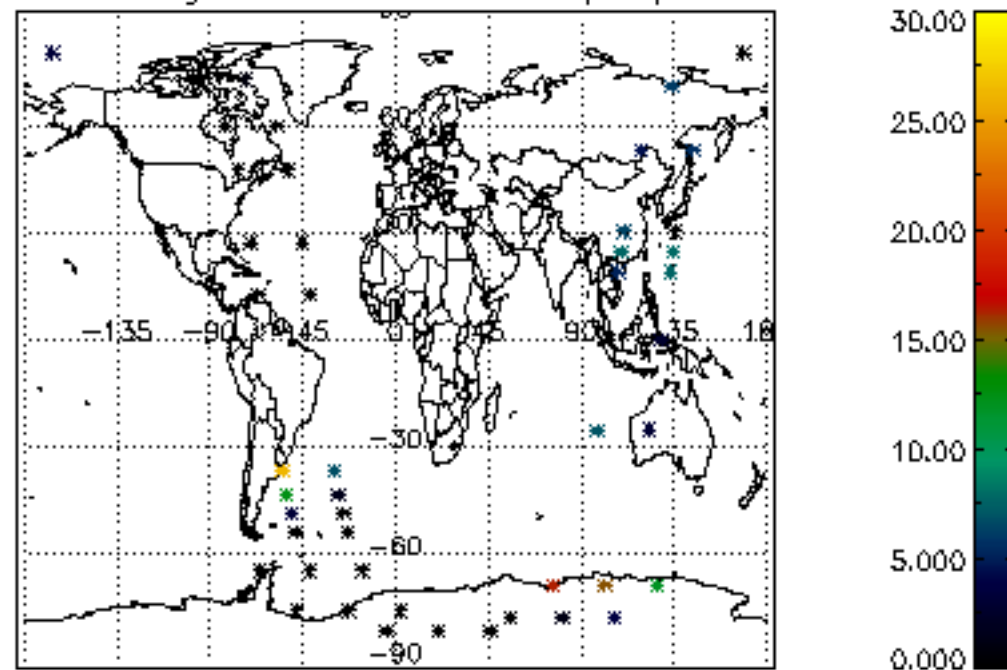
Percentage of datation errors per profile



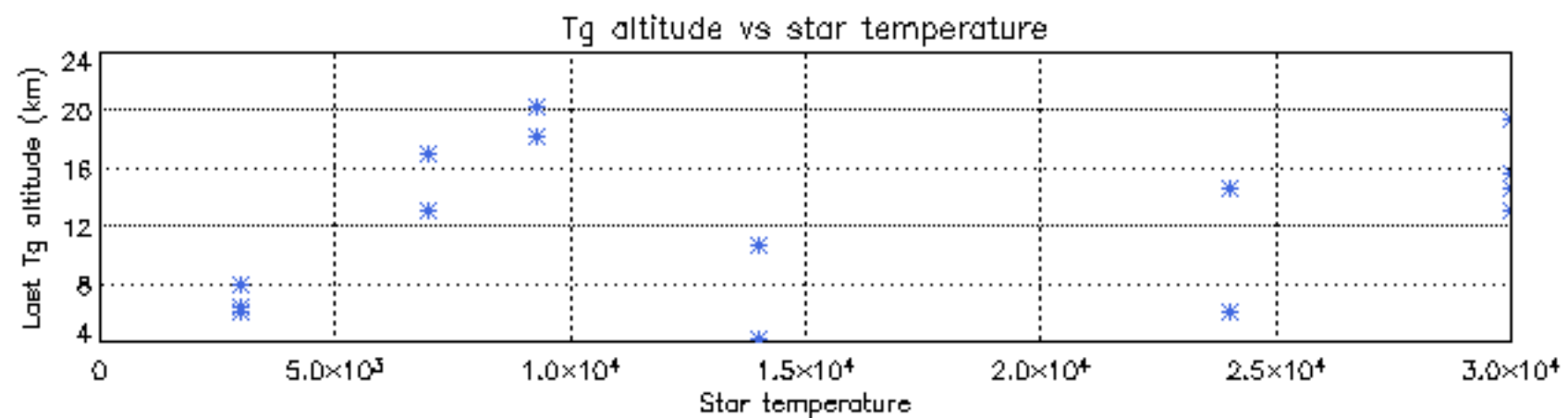
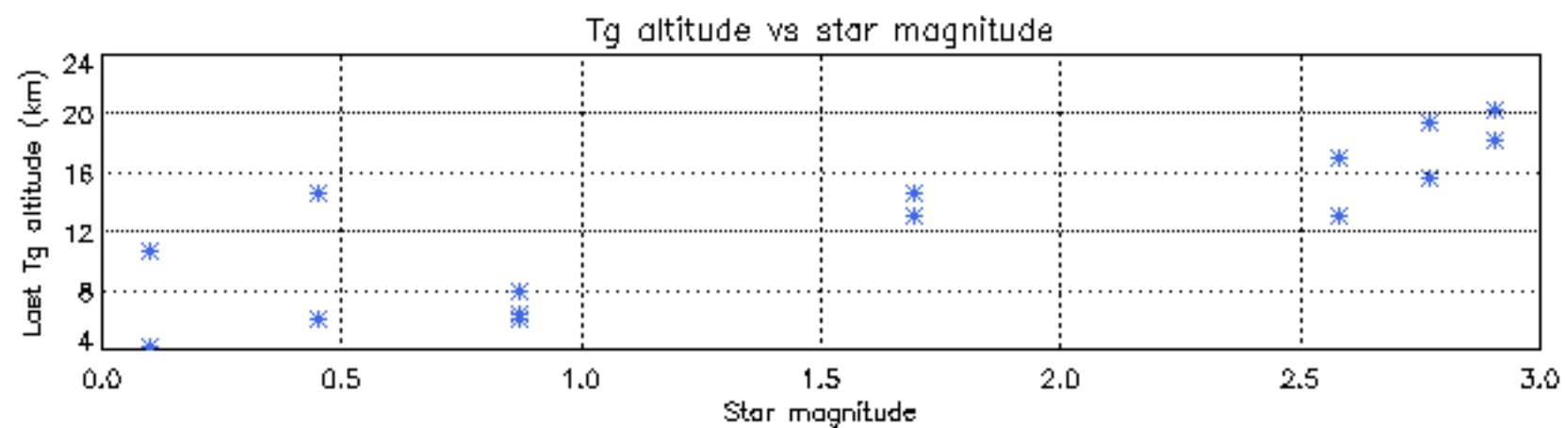
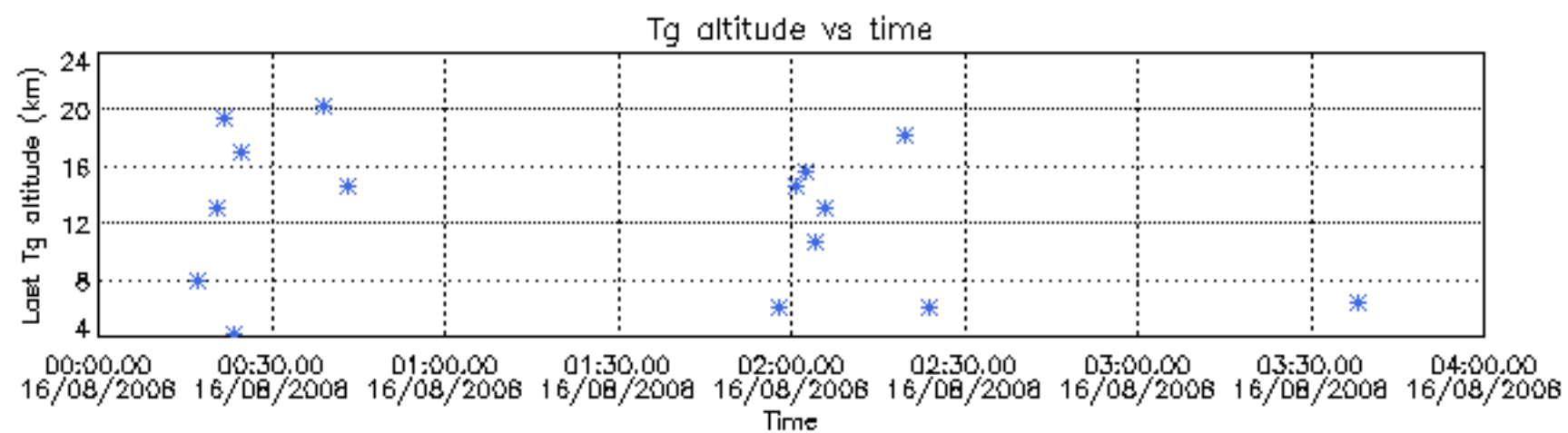
Percentage of star falling outside central band per profile



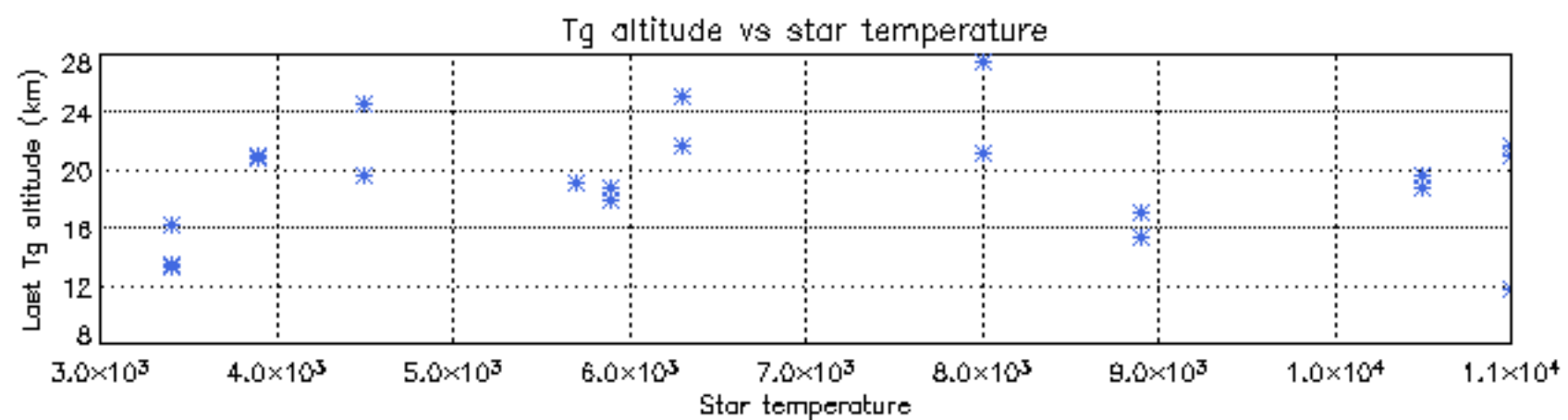
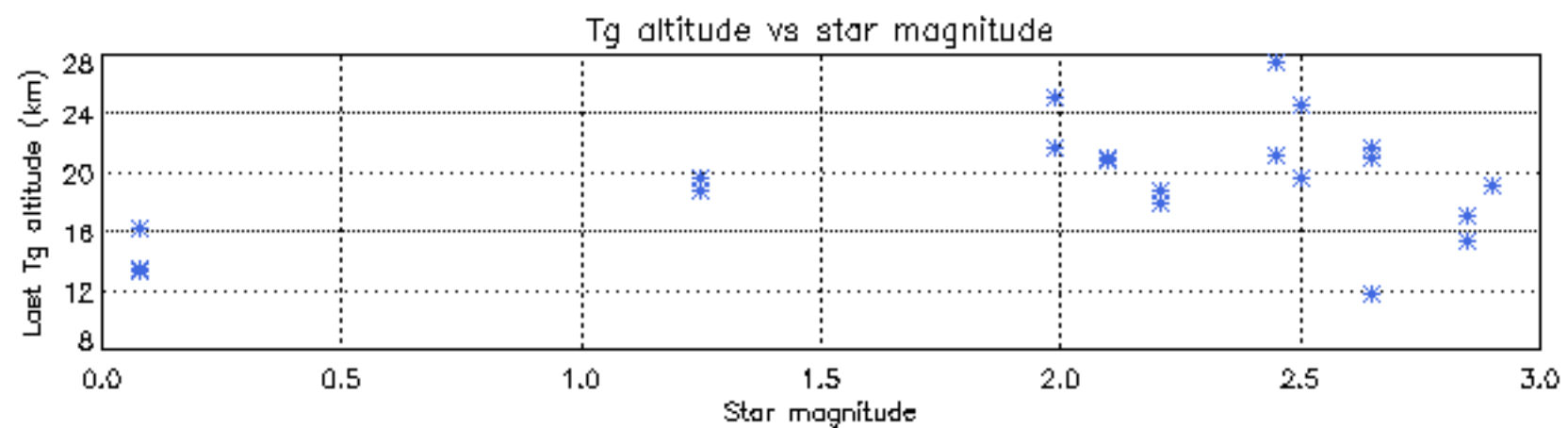
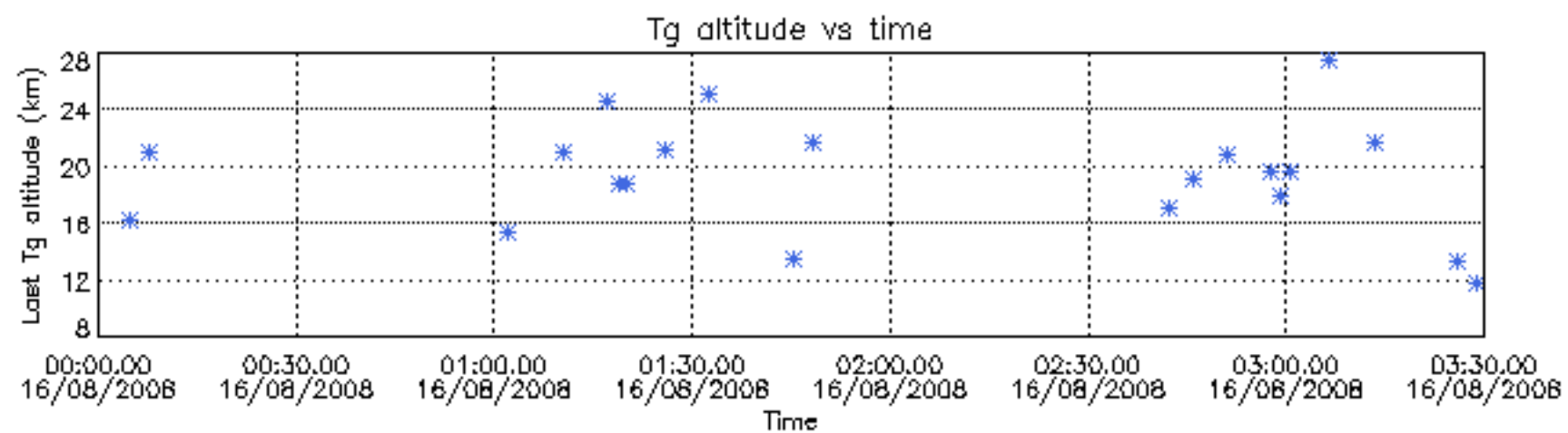
Percentage of saturation errors per profile

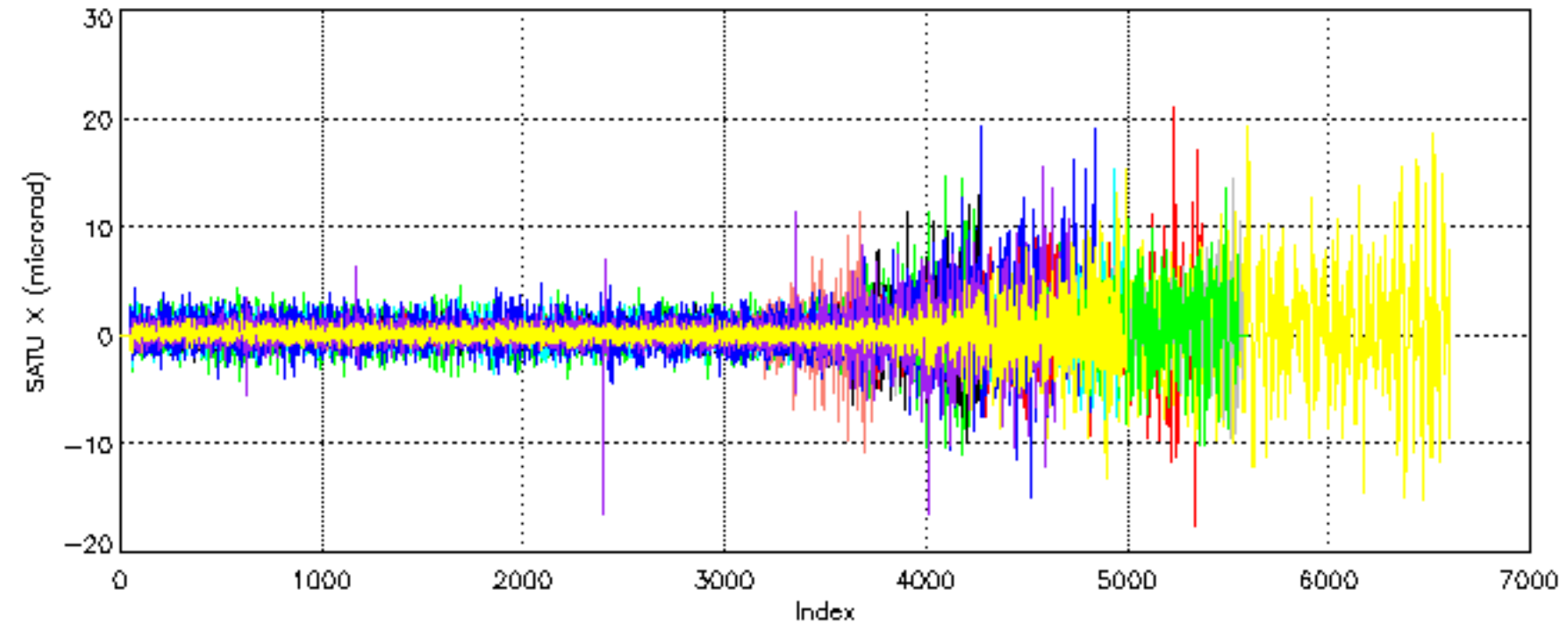


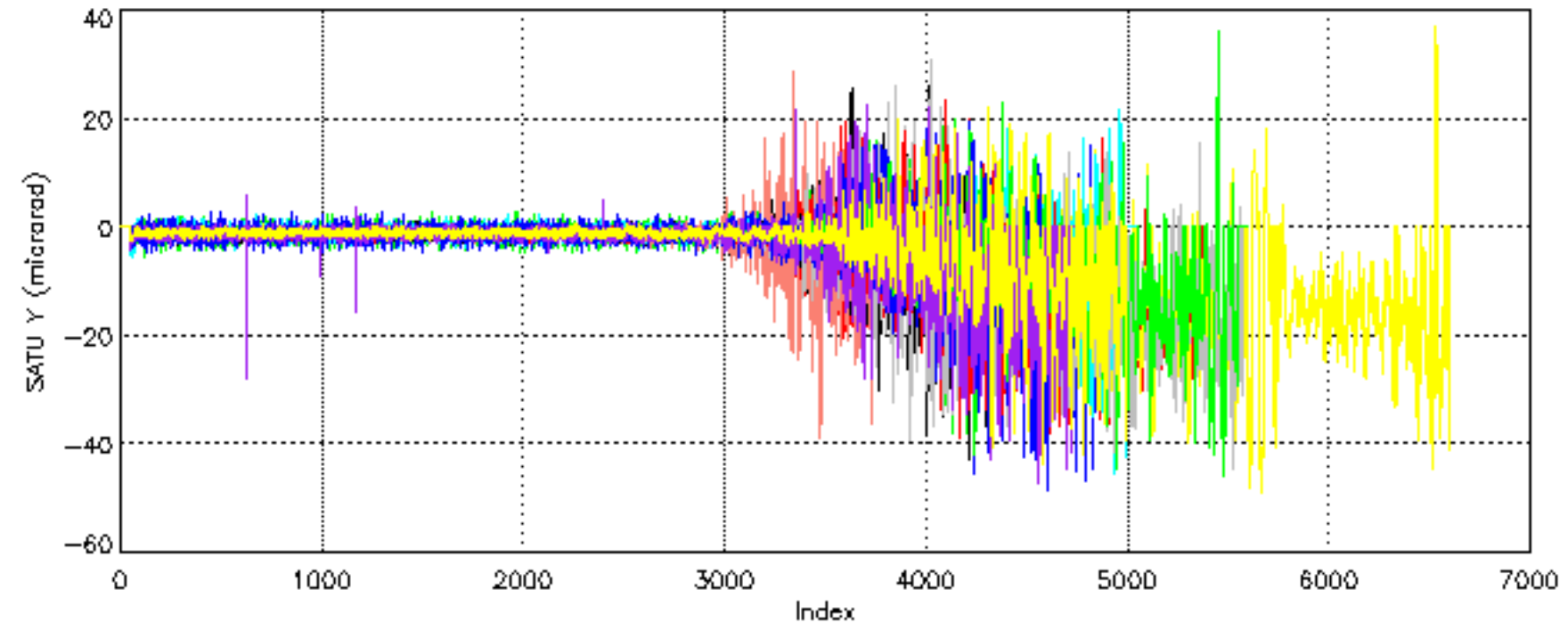
Tangent altitude at which the star is lost

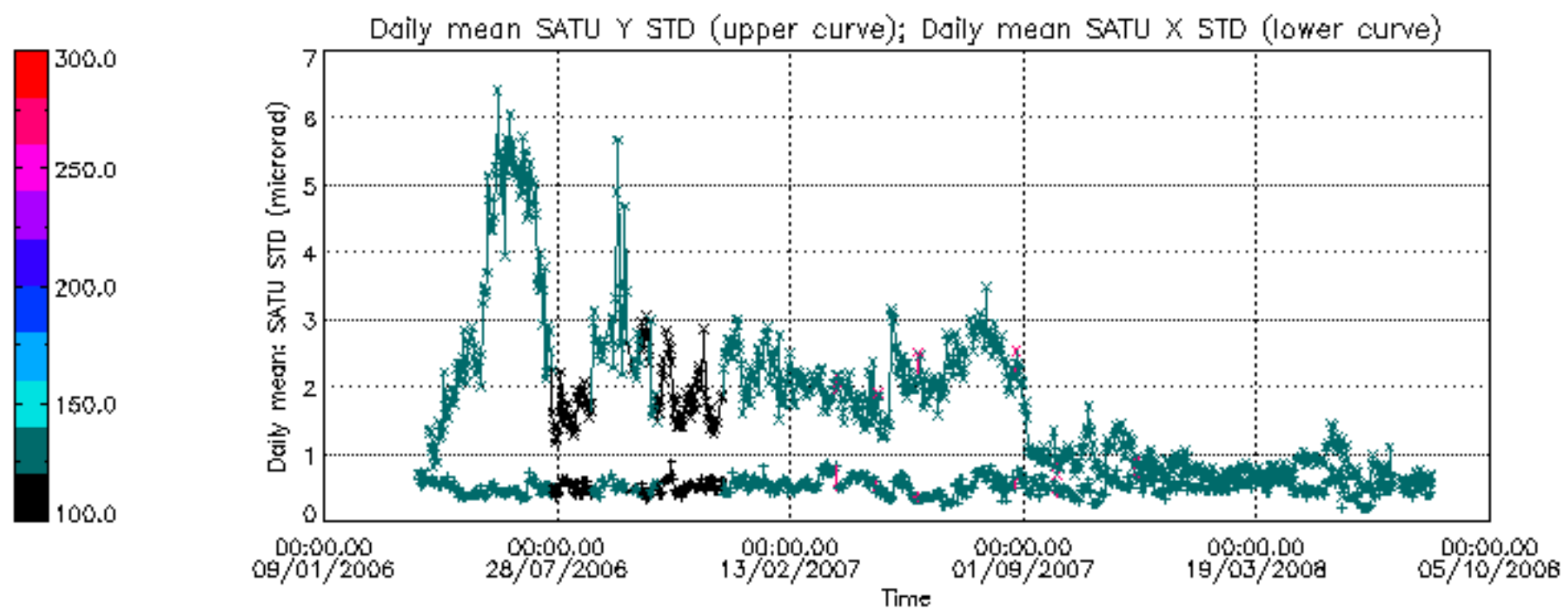


Tangent altitude at which the star is lost









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13; 5256.2; 12-AUG-2008 17:33:35; Dark ; 36.5; 1; 9Alp CMA ; -1.44; 11000;occ; 73; 0;33733
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2; -1317.0; 15-AUG-2008 02:24:59; Dark ; 42.0; 44; 24Gam Gem ; 1.93; 11000;occ; 84; 0;33767
3; -769.8; 15-AUG-2008 02:34:06; Dark ; 41.5; 1; 9Alp CMa ; -1.44; 11000;occ; 83; 0;33767
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5; -584.1; 15-AUG-2008 02:37:12; Dark ; 41.5; 23; 21Eps CMa ; 1.50; 26000;occ; 83; 0;33767
6; -424.3; 15-AUG-2008 02:39:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33767
7; -174.4; 15-AUG-2008 02:44:02; Dark ; 45.0; 2; Alp Car ; -0.74; 7000;occ; 90; 0;33767
8; 449.2; 15-AUG-2008 02:54:25; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;33768
9; 797.9; 15-AUG-2008 03:00:14; Dark ; 48.0; 148; Alp Tuc ; 2.88; 4100;occ; 96; 0;33768
10; 1011.1; 15-AUG-2008 03:03:47; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;33768
11; 1190.1; 15-AUG-2008 03:06:46; Dark ; 41.0; 172; Gam Gru ; 3.00; 13100;occ; 82; 0;33768
12; 2064.1; 15-AUG-2008 03:21:20; Bright; 35.0; 11; 53Alp Aql ; 0.76; 8000;occ; 70; 0;33768
13; 2505.1; 15-AUG-2008 03:28:41; Bright; 37.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 74; 0;33768
14; 2599.4; 15-AUG-2008 03:30:15; Bright; 35.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 70; 0;33768
15; 2675.2; 15-AUG-2008 03:31:31; Bright; 33.5; 144; 18Del Cyg ; 2.86; 11000;occ; 67; 0;33768
16; 3019.2; 15-AUG-2008 03:37:15; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0;33768
17; 3438.4; 15-AUG-2008 03:44:14; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33768

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2; -1316.8; 15-AUG-2008 04:05:35; Dark ; 37.0; 44; 24Gam Gem ; 1.93; 11000;occ; 74; 0;33768
3; -769.5; 15-AUG-2008 04:14:42; Dark ; 49.5; 1; 9Alp CMa ; -1.44; 11000;occ; 99; 0;33768
4; -671.3; 15-AUG-2008 04:16:21; Dark ; 37.5; 179; 240mi2CMa ; 3.03; 24000;occ; 75; 0;33768
5; -584.0; 15-AUG-2008 04:17:48; Dark ; 40.5; 23; 21Eps CMa ; 1.50; 26000;occ; 81; 0;33768
6; -423.9; 15-AUG-2008 04:20:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33768
7; -174.1; 15-AUG-2008 04:24:38; Dark ; 52.0; 2; Alp Car ; -0.74; 7000;occ; 104; 0;33768
8; 449.8; 15-AUG-2008 04:35:02; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;33769
9; 798.2; 15-AUG-2008 04:40:50; Dark ; 40.0; 148; Alp Tuc ; 2.88; 4100;occ; 80; 0;33769
10; 1011.5; 15-AUG-2008 04:44:23; Dark ; 40.5; 31; Alp Gru ; 1.73; 15200;occ; 81; 0;33769
11; 1190.3; 15-AUG-2008 04:47:22; Dark ; 41.0; 172; Gam Gru ; 3.00; 13100;occ; 82; 0;33769
12; 2064.3; 15-AUG-2008 05:01:56; Bright; 37.0; 11; 53Alp Aql ; 0.76; 8000;occ; 74; 0;33769
13; 2504.8; 15-AUG-2008 05:09:17; Bright; 39.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 79; 0;33769
14; 2599.2; 15-AUG-2008 05:10:51; Bright; 38.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 76; 0;33769
15; 2675.1; 15-AUG-2008 05:12:07; Bright; 36.0; 144; 18Del Cyg ; 2.86; 11000;occ; 72; 0;33769
16; 3018.9; 15-AUG-2008 05:17:51; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33769
17; 3438.3; 15-AUG-2008 05:24:50; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33769

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2; -1316.6; 15-AUG-2008 05:46:11; Dark ; 41.5; 44; 24Gam Gem ; 1.93; 11000;occ; 83; 0;33769
3; -769.2; 15-AUG-2008 05:55:19; Dark ; 44.0; 1; 9Alp CMa ; -1.44; 11000;occ; 88; 0;33769
4; -671.1; 15-AUG-2008 05:56:57; Dark ; 37.5; 179; 240mi2CMa ; 3.03; 24000;occ; 75; 0;33769
5; -583.8; 15-AUG-2008 05:58:24; Dark ; 41.5; 23; 21Eps CMa ; 1.50; 26000;occ; 83; 0;33769
6; -423.5; 15-AUG-2008 06:01:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33769
7; -173.9; 15-AUG-2008 06:05:14; Dark ; 50.0; 2; Alp Car ; -0.74; 7000;occ; 100; 0;33769
8; 450.5; 15-AUG-2008 06:15:38; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;33770
9; 798.5; 15-AUG-2008 06:21:26; Dark ; 47.0; 148; Alp Tuc ; 2.88; 4100;occ; 94; 0;33770
10; 1011.8; 15-AUG-2008 06:25:00; Dark ; 44.0; 31; Alp Gru ; 1.73; 15200;occ; 88; 0;33770
11; 1190.7; 15-AUG-2008 06:27:59; Dark ; 40.0; 172; Gam Gru ; 3.00; 13100;occ; 80; 0;33770
12; 2064.4; 15-AUG-2008 06:42:32; Bright; 36.0; 11; 53Alp Aql ; 0.76; 8000;occ; 72; 0;33770
13; 2504.6; 15-AUG-2008 06:49:53; Bright; 39.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 78; 0;33770
14; 2599.0; 15-AUG-2008 06:51:27; Bright; 37.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 75; 0;33770
15; 2675.0; 15-AUG-2008 06:52:43; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;33770
16; 3018.6; 15-AUG-2008 06:58:27; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33770
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2; 1193.2; 15-AUG-2008 19:52:49; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;33778
3; 2065.1; 15-AUG-2008 20:07:20; Bright; 35.5; 11; 53Alp Aql ; 0.76; 8000;occ; 71; 0;33778


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4; 2502.9; 15-AUG-2008 20:14:38; Bright; 37.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 75; 0;33778
5; 2598.2; 15-AUG-2008 20:16:14; Bright; 38.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 76; 0;33778
6; 2675.1; 15-AUG-2008 20:17:31; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;33778
7; 3016.3; 15-AUG-2008 20:23:12; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;33778
8; 3438.0; 15-AUG-2008 20:30:13; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33778
9; 4626.2; 15-AUG-2008 20:50:02; Dark ; 45.5; 151; 13Mu Gem ; 2.89; 3000;occ; 91; 0;33778
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3; -581.7; 15-AUG-2008 21:03:50; Dark ; 37.0; 23; 21Eps CMA ; 1.50; 26000;occ; 74; 0;33778
4; -419.9; 15-AUG-2008 21:06:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33778
5; -171.7; 15-AUG-2008 21:10:40; Dark ; 50.0; 2; Alp Car ; -0.74; 7000;occ; 100; 0;33778
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2; 457.3; 15-AUG-2008 23:01:44; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;33780
3; 801.6; 15-AUG-2008 23:07:29; Dark ; 63.0; 84; Alp Phe ; 2.40; 4500;occ; 126; 0;33780
4; 1015.5; 15-AUG-2008 23:11:03; Dark ; 41.0; 31; Alp Gru ; 1.73; 15200;occ; 82; 0;33780
5; 1252.6; 15-AUG-2008 23:15:00; Dark ; 55.5; 18; 24Alp PsA ; 1.17; 9700;occ; 111; 0;33780
6; 1591.9; 15-AUG-2008 23:20:39; Bright; 43.5; 142; 49Del Cap ; 2.85; 8900;occ; 87; 0;33780
7; 2113.3; 15-AUG-2008 23:29:20; Bright; 47.0; 61; 8Eps Peg ; 2.10; 3900;occ; 94; 0;33780
8; 2502.4; 15-AUG-2008 23:35:50; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;33780
9; 2597.8; 15-AUG-2008 23:37:25; Bright; 34.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 69; 0;33780
10; 2694.8; 15-AUG-2008 23:39:02; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;33780
11; 3015.8; 15-AUG-2008 23:44:23; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33780
12; 3437.9; 15-AUG-2008 23:51:25; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33780
13; 4193.4; 16-AUG-2008 00:04:01; Bright; 46.0; 6; 13Alp Aur ; 0.08; 3400;occ; 92; 0;33780
14; 4367.2; 16-AUG-2008 00:06:54; Bright; 39.5; 107; 37The Aur ; 2.65; 11000;occ; 79; 0;33780
15; 4553.6; 16-AUG-2008 00:10:01; Dark ; 51.5; 28; 12Bet Tau ; 1.65; 15200;occ; 103; 0;33780
16; 4721.9; 16-AUG-2008 00:12:49; Dark ; 41.0; 44; 24Gam Gem ; 1.93; 11000;occ; 82; 0;33780
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18; 5124.8; 16-AUG-2008 00:19:32; Dark ; 48.5; 30; 46Eps Ori ; 1.69; 30000;occ; 97; 0;33780
19; 5210.1; 16-AUG-2008 00:20:57; Dark ; 43.0; 125; 44Iot Ori ; 2.77; 30000;occ; 86; 0;33780
20; 5304.6; 16-AUG-2008 00:22:32; Dark ; 39.5; 7; 19Bet Ori ; 0.10; 14000;occ; 79; 0;33780
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3; -768.9; 15-AUG-2008 07:35:55; Dark ; 44.0; 1; 9Alp CMA ; -1.44; 11000;occ; 88; 0;33770
4; -670.7; 15-AUG-2008 07:37:33; Dark ; 37.5; 179; 24Omi2CMA ; 3.03; 24000;occ; 75; 0;33770
5; -583.5; 15-AUG-2008 07:39:00; Dark ; 41.0; 23; 21Eps CMA ; 1.50; 26000;occ; 82; 0;33770
6; -423.1; 15-AUG-2008 07:41:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33770
7; -173.7; 15-AUG-2008 07:45:50; Dark ; 44.0; 2; Alp Car ; -0.74; 7000;occ; 88; 0;33770
8; 451.3; 15-AUG-2008 07:56:15; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;33771
9; 798.8; 15-AUG-2008 08:02:03; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;33771
10; 1012.2; 15-AUG-2008 08:05:36; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;33771
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3; 2598.9; 15-AUG-2008 08:32:03; Bright; 38.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 77; 0;33771
4; 2675.1; 15-AUG-2008 08:33:19; Bright; 35.5; 144; 18Del Cyg ; 2.86; 11000;occ; 71; 0;33771
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8; 4719.9; 15-AUG-2008 09:07:24; Dark ; 40.5; 44; 24Gam Gem ; 1.93; 11000;occ; 81; 0;33771
9; 5267.3; 15-AUG-2008 09:16:31; Dark ; 43.5; 1; 9Alp CMA ; -1.44; 11000;occ; 87; 0;33771
10; 5365.3; 15-AUG-2008 09:18:09; Dark ; 38.0; 179; 24Omi2CMA ; 3.03; 24000;occ; 76; 0;33771
11; 5452.7; 15-AUG-2008 09:19:37; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;33771
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13; 5862.4; 15-AUG-2008 09:26:26; Dark ; 47.0; 2; Alp Car ; -0.74; 7000;occ; 94; 0;33771
14; 6487.9; 15-AUG-2008 09:36:52; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;33771
15; 6835.0; 15-AUG-2008 09:42:39; Dark ; 47.5; 148; Alp Tuc ; 2.88; 4100;occ; 95; 0;33771
16; 7048.6; 15-AUG-2008 09:46:13; Dark ; 42.5; 31; Alp Gru ; 1.73; 15200;occ; 85; 0;33771
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3; 2598.8; 15-AUG-2008 10:12:39; Bright; 38.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 77; 0;33772

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7; 4624.9; 15-AUG-2008 10:46:25; Dark ; 47.5; 151; 13Mu Gem ; 2.89; 3000;occ; 95; 0;33772
8; 4720.1; 15-AUG-2008 10:48:00; Dark ; 42.5; 44; 24Gam Gem ; 1.93; 11000;occ; 85; 0;33772
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11; 5452.9; 15-AUG-2008 11:00:13; Dark ; 42.0; 23; 21Eps CMa ; 1.50; 26000;occ; 84; 0;33772
12; 5613.6; 15-AUG-2008 11:02:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33772
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15; 7049.3; 15-AUG-2008 13:07:25; Dark ; 44.0; 31; Alp Gru ; 1.73; 15200;occ; 88; 0;33773
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4; 2675.0; 15-AUG-2008 13:35:07; Bright; 35.5; 144; 18Del Cyg ; 2.86; 11000;occ; 71; 0;33774
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2; 1799.5; 17-AUG-2008 12:17:17; Bright; 41.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 82; 0;33802
3; 1917.6; 17-AUG-2008 12:19:15; Bright; 41.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 82; 0;33802
4; 2107.0; 17-AUG-2008 12:22:24; Bright; 44.0; 61; 8Eps Peg ; 2.10; 3900;occ; 88; 0;33802
5; 2498.6; 17-AUG-2008 12:28:56; Bright; 39.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 78; 0;33802
6; 2595.9; 17-AUG-2008 12:30:33; Bright; 37.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 75; 0;33802
7; 2690.9; 17-AUG-2008 12:32:08; Bright; 39.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 79; 0;33802
8; 3010.3; 17-AUG-2008 12:37:28; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33802
9; 3437.9; 17-AUG-2008 12:44:35; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;33802
10; 4191.4; 17-AUG-2008 12:57:09; Bright; 47.0; 6; 13Alp Aur ; 0.08; 3400;occ; 94; 0;33802
11; 4369.1; 17-AUG-2008 13:00:06; Bright; 40.0; 107; 37The Aur ; 2.65; 11000;occ; 80; 0;33802
12; 4558.0; 17-AUG-2008 13:03:15; Dark ; 50.0; 28; 12Bet Tau ; 1.65; 15200;occ; 100; 0;33802
13; 4727.7; 17-AUG-2008 13:06:05; Dark ; 41.0; 44; 24Gam Gem ; 1.93; 11000;occ; 82; 0;33802
14; 4942.8; 17-AUG-2008 13:09:40; Dark ; 53.5; 14; 58Alp Ori ; 0.87; 3000;occ; 107; 0;33802
15; 5138.8; 17-AUG-2008 13:12:56; Dark ; 49.5; 30; 46Eps Ori ; 1.69; 30000;occ; 99; 0;33802
16; 5224.8; 17-AUG-2008 13:14:22; Dark ; 46.0; 125; 44Iot Ori ; 2.77; 30000;occ; 92; 0;33802
17; 5323.0; 17-AUG-2008 13:16:00; Dark ; 55.0; 7; 19Bet Ori ; 0.10; 14000;occ; 110; 0;33802
18; 5431.8; 17-AUG-2008 13:17:49; Dark ; 47.5; 101; 11Alp Lep ; 2.58; 7000;occ; 95; 0;33802
19; 5603.2; 17-AUG-2008 13:20:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33802
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21; 6509.0; 17-AUG-2008 13:35:46; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;33802
22; 6856.7; 17-AUG-2008 13:41:34; Dark ; 54.0; 84; Alp Phe ; 2.40; 4500;occ; 108; 0;33802
23; 7059.8; 17-AUG-2008 13:44:57; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;33802
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2; 1799.6; 17-AUG-2008 13:57:53; Bright; 41.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 82; 0;33803
3; 1917.4; 17-AUG-2008 13:59:51; Bright; 41.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 82; 0;33803
4; 2106.7; 17-AUG-2008 14:03:00; Bright; 43.0; 61; 8Eps Peg ; 2.10; 3900;occ; 86; 0;33803
5; 2498.5; 17-AUG-2008 14:09:32; Bright; 37.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 74; 0;33803
6; 2595.8; 17-AUG-2008 14:11:09; Bright; 35.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 71; 0;33803
7; 2690.7; 17-AUG-2008 14:12:44; Bright; 39.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 79; 0;33803
8; 3010.1; 17-AUG-2008 14:18:03; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33803
9; 3437.9; 17-AUG-2008 14:25:11; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;33803
10; 4191.3; 17-AUG-2008 14:37:45; Bright; 47.5; 6; 13Alp Aur ; 0.08; 3400;occ; 95; 0;33803
11; 4369.2; 17-AUG-2008 14:40:42; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;33803
12; 4558.4; 17-AUG-2008 14:43:52; Dark ; 51.5; 28; 12Bet Tau ; 1.65; 15200;occ; 103; 0;33803
13; 4728.0; 17-AUG-2008 14:46:41; Dark ; 39.5; 44; 24Gam Gem ; 1.93; 11000;occ; 79; 0;33803
14; 4943.5; 17-AUG-2008 14:50:17; Dark ; 52.5; 14; 58Alp Ori ; 0.87; 3000;occ; 105; 0;33803
15; 5139.5; 17-AUG-2008 14:53:33; Dark ; 50.0; 30; 46Eps Ori ; 1.69; 30000;occ; 100; 0;33803
16; 5225.6; 17-AUG-2008 14:54:59; Dark ; 45.0; 125; 44Iot Ori ; 2.77; 30000;occ; 90; 0;33803
17; 5323.8; 17-AUG-2008 14:56:37; Dark ; 58.5; 7; 19Bet Ori ; 0.10; 14000;occ; 117; 0;33803
18; 5432.6; 17-AUG-2008 14:58:26; Dark ; 46.0; 101; 11Alp Lep ; 2.58; 7000;occ; 92; 0;33803
19; 5604.1; 17-AUG-2008 15:01:17; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;33803
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21; 6509.7; 17-AUG-2008 15:16:23; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;33803
22; 6857.6; 17-AUG-2008 15:22:11; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;33803
23; 7060.3; 17-AUG-2008 15:25:33; Dark ; 40.0; 31; Alp Gru ; 1.73; 15200;occ; 80; 0;33803
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4; 1917.2; 17-AUG-2008 15:40:26; Bright; 47.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 95; 0;33804
5; 2106.4; 17-AUG-2008 15:43:36; Bright; 42.5; 61; 8Eps Peg ; 2.10; 3900;occ; 85; 0;33804
6; 2498.2; 17-AUG-2008 15:50:07; Bright; 38.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 77; 0;33804
7; 2595.7; 17-AUG-2008 15:51:45; Bright; 36.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 73; 0;33804
8; 2690.5; 17-AUG-2008 15:53:20; Bright; 38.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 77; 0;33804
9; 3009.9; 17-AUG-2008 15:58:39; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;33804
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11; 4191.4; 17-AUG-2008 16:18:21; Bright; 45.5; 6; 13Alp Aur ; 0.08; 3400;occ; 91; 0;33804
12; 4369.2; 17-AUG-2008 16:21:18; Bright; 39.0; 107; 37The Aur ; 2.65; 11000;occ; 78; 0;33804
13; 4558.5; 17-AUG-2008 16:24:28; Dark ; 50.0; 28; 12Bet Tau ; 1.65; 15200;occ; 100; 0;33804
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17; 5226.3; 17-AUG-2008 16:35:35; Dark ; 46.5; 125; 44Iot Ori ; 2.77; 30000;occ; 93; 0;33804
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19; 5433.4; 17-AUG-2008 16:39:03; Dark ; 45.5; 101; 11Alp Lep ; 2.58; 7000;occ; 91; 0;33804
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21; 6277.4; 17-AUG-2008 16:53:07; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;33804
22; 6510.4; 17-AUG-2008 16:57:00; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;33804
23; 6858.4; 17-AUG-2008 17:02:48; Dark ; 51.5; 84; Alp Phe ; 2.40; 4500;occ; 103; 0;33804
24; 7060.6; 17-AUG-2008 17:06:10; Dark ; 40.5; 31; Alp Gru ; 1.73; 15200;occ; 81; 0;33804

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3; 1594.9; 17-AUG-2008 17:15:40; Bright; 43.5; 142; 49Del Cap ; 2.85; 8900;occ; 87; 0;33805
4; 1799.5; 17-AUG-2008 17:19:05; Bright; 41.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 82; 0;33805
5; 1917.0; 17-AUG-2008 17:21:02; Bright; 46.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 92; 0;33805
6; 2106.2; 17-AUG-2008 17:24:11; Bright; 43.0; 61; 8Eps Peg ; 2.10; 3900;occ; 86; 0;33805
7; 2498.0; 17-AUG-2008 17:30:43; Bright; 38.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 77; 0;33805
8; 2595.7; 17-AUG-2008 17:32:21; Bright; 37.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 74; 0;33805
9; 2690.4; 17-AUG-2008 17:33:56; Bright; 49.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 98; 0;33805
10; 3009.6; 17-AUG-2008 17:39:15; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;33805
11; 3437.8; 17-AUG-2008 17:46:23; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33805
12; 4191.3; 17-AUG-2008 17:58:56; Bright; 48.0; 6; 13Alp Aur ; 0.08; 3400;occ; 96; 0;33805
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18; 5226.9; 17-AUG-2008 18:16:12; Dark ; 47.5; 125; 44Iot Ori ; 2.77; 30000;occ; 95; 0;33805
19; 5325.6; 17-AUG-2008 18:17:51; Dark ; 59.0; 7; 19Bet Ori ; 0.10; 14000;occ; 118; 0;33805
20; 5434.1; 17-AUG-2008 18:19:39; Dark ; 45.5; 101; 11Alp Lep ; 2.58; 7000;occ; 91; 0;33805
21; 5605.7; 17-AUG-2008 18:22:31; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;33805
22; 6278.5; 17-AUG-2008 18:33:44; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;33805
23; 6511.1; 17-AUG-2008 18:37:36; Dark ; 46.0; 9; Alp Eri ; 0.45; 24000;occ; 92; 0;33805
24; 6859.3; 17-AUG-2008 18:43:24; Dark ; 60.0; 84; Alp Phe ; 2.40; 4500;occ; 120; 0;33805
25; 7061.0; 17-AUG-2008 18:46:46; Dark ; 29.0; 31; Alp Gru ; 1.73; 15200;occ; 58; 0;33805

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3; 1594.9; 17-AUG-2008 18:56:16; Bright; 42.5; 142; 49Del Cap ; 2.85; 8900;occ; 85; 0;33806
4; 1799.6; 17-AUG-2008 18:59:41; Bright; 40.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 81; 0;33806
5; 1916.8; 17-AUG-2008 19:01:38; Bright; 46.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 92; 0;33806
6; 2105.9; 17-AUG-2008 19:04:47; Bright; 44.0; 61; 8Eps Peg ; 2.10; 3900;occ; 88; 0;33806
7; 2497.9; 17-AUG-2008 19:11:19; Bright; 38.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 77; 0;33806
8; 2595.6; 17-AUG-2008 19:12:57; Bright; 37.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 75; 0;33806
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17; 5141.3; 17-AUG-2008 19:55:23; Dark ; 50.5; 30; 46Eps Ori ; 1.69; 30000;occ; 101; 0;33806
18; 5227.6; 17-AUG-2008 19:56:49; Dark ; 47.5; 125; 44Iot Ori ; 2.77; 30000;occ; 95; 0;33806

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22; 6279.7; 17-AUG-2008 20:14:21; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;33806
23; 6511.7; 17-AUG-2008 20:18:13; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;33806
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5; 477.8; 18-AUG-2008 01:20:03; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;33810
6; 826.4; 18-AUG-2008 01:25:51; Dark ; 61.0; 84; Alp Phe ; 2.40; 4500;occ; 122; 0;33810
7; 1026.3; 18-AUG-2008 01:29:11; Dark ; 42.0; 31; Alp Gru ; 1.73; 15200;occ; 84; 0;33810
8; 1264.9; 18-AUG-2008 01:33:10; Dark ; 53.0; 18; 24Alp PsA ; 1.17; 9700;occ; 106; 0;33810
9; 1595.4; 18-AUG-2008 01:38:40; Bright; 42.0; 142; 49Del Cap ; 2.85; 8900;occ; 84; 0;33810
10; 1799.4; 18-AUG-2008 01:42:04; Bright; 41.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 82; 0;33810
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13; 2497.1; 18-AUG-2008 01:53:42; Bright; 39.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 78; 0;33810
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5; -1089.3; 18-AUG-2008 02:34:31; Dark ; 57.5; 14; 58Alp Ori ; 0.87; 3000;occ; 115; 0;33810
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 2; -1665.1; 19-AUG-2008 06:55:06; Bright; 40.5; 107; 37The Aur ; 2.65; 11000;occ; 81; 0;33827
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 4; -1301.7; 19-AUG-2008 07:01:10; Dark ; 43.0; 44; 24Gam Gem ; 1.93; 11000;occ; 86; 0;33827
 5; -1081.1; 19-AUG-2008 07:04:50; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;33827

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9; -691.0; 19-AUG-2008 07:11:20; Dark ; 63.5; 7; 19Bet Ori ; 0.10; 14000;occ; 127; 0;33827
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12; 269.0; 19-AUG-2008 07:27:20; Dark ; 53.0; 157; The1Eri ; 2.91; 9300;occ; 106; 0;33828
13; 489.9; 19-AUG-2008 07:31:01; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;33828
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16; 1271.9; 19-AUG-2008 07:44:03; Dark ; 53.0; 18; 24Alp PsA ; 1.17; 9700;occ; 106; 0;33828
17; 1597.6; 19-AUG-2008 07:49:29; Bright; 41.0; 142; 49Del Cap ; 2.85; 8900;occ; 82; 0;33828

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2; 1912.6; 19-AUG-2008 07:54:44; Bright; 45.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 90; 0;33828
3; 2100.2; 19-AUG-2008 07:57:52; Bright; 43.0; 61; 8Eps Peg ; 2.10; 3900;occ; 86; 0;33828
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
8; 3437.5; 19-AUG-2008 08:20:09; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;33828
9; 4188.7; 19-AUG-2008 08:32:40; Bright; 51.0; 6; 13Alp Aur ; 0.08; 3400;occ; 102; 0;33828
10; 4370.9; 19-AUG-2008 08:35:42; Bright; 40.0; 107; 37The Aur ; 2.65; 11000;occ; 80; 0;33828
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
16; 5243.2; 19-AUG-2008 08:50:15; Dark ; 45.5; 125; 44Iot Ori ; 2.77; 30000;occ; 91; 0;33828
17; 5345.8; 19-AUG-2008 08:51:57; Dark ; 61.0; 7; 19Bet Ori ; 0.10; 14000;occ; 122; 0;33828
18; 5451.1; 19-AUG-2008 08:53:42; Dark ; 47.0; 101; 11Alp Lep ; 2.58; 7000;occ; 94; 0;33828
19; 5624.0; 19-AUG-2008 08:56:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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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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
6; 2686.8; 19-AUG-2008 09:48:14; Bright; 35.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 71; 0;33829
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12; 4734.8; 19-AUG-2008 10:22:22; Dark ; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;33829
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
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19; 5624.8; 19-AUG-2008 10:37:12; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;33829
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21; 6527.2; 19-AUG-2008 10:52:15; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;33829
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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1; 1799.3; 19-AUG-2008 11:14:03; Bright; 41.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 83; 0;33830
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
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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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2;	1799.4;	19-AUG-2008	12:54:38;	Bright;	40.0;	154;	22Bet Aqr	; 2.90;	5700;occ;	80;	0;33831
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
10;	4188.2;	19-AUG-2008	13:34:27;	Bright;	48.5;	6;	13Alp Aur	; 0.08;	3400;occ;	97;	0;33831
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
16;	5158.2;	19-AUG-2008	13:50:37;	Dark	; 52.5;	30;	46Eps Ori	; 1.69;	30000;occ;	105;	0;33831
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
17;	5246.3;	19-AUG-2008	15:32:41;	Dark	; 43.5;	125;	44Iot Ori	; 2.77;	30000;occ;	87;	0;33832
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21; 6311.0; 19-AUG-2008 15:50:26; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;33832
22; 6529.3; 19-AUG-2008 15:54:04; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;33832
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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8; 4158.7; 23-AUG-2008 13:08:05; Bright; 99.5; 42; 34Bet Aur ; 1.90; 10200;occ; 199; 0;33888
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19; 5569.4; 23-AUG-2008 16:52:48; Dark ; 40.0; 177; 1Zet CMa ; 3.02; 26000;occ; 80; 0;33890
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13; 4436.2; 23-AUG-2008 19:55:06; Bright; 35.0; 24; 66Alp Gem ; 1.58; 10200;occ; 70; 0;33892
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