

GOMOS Daily Report 25-SEP-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	27SEP2008 05:32:49
Data source version	GOMOS/5.00
Start time of products	25SEP2008 00:02:59
Stop time of products	25SEP2008 06:32:44
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

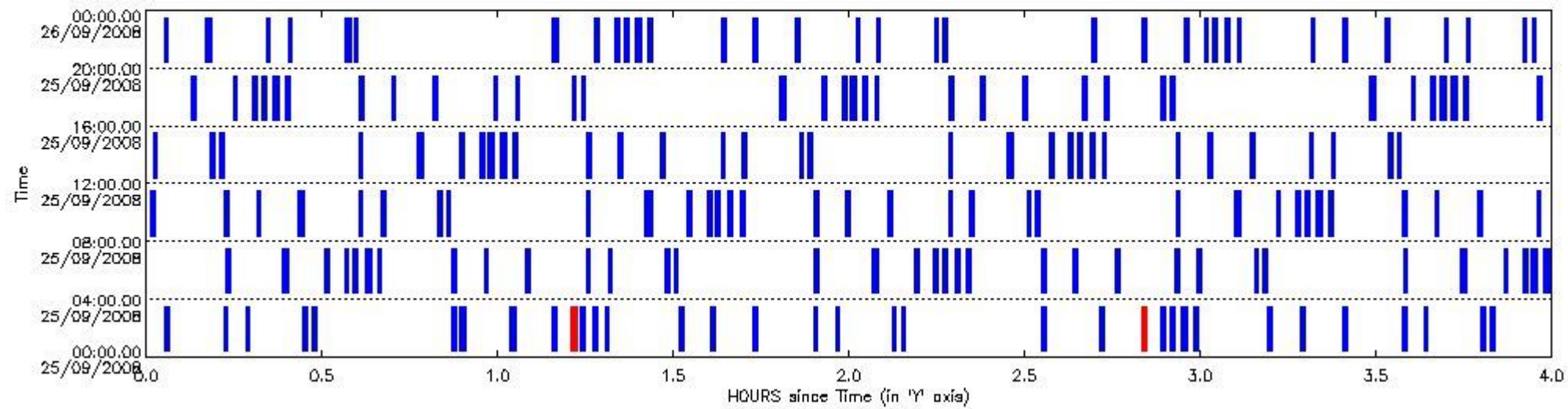
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

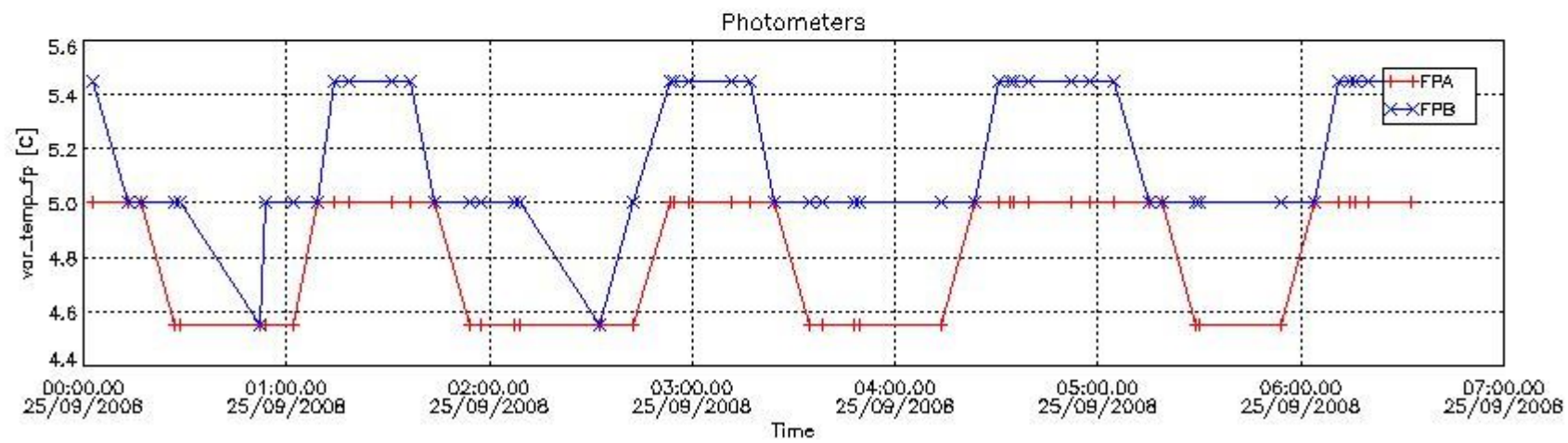
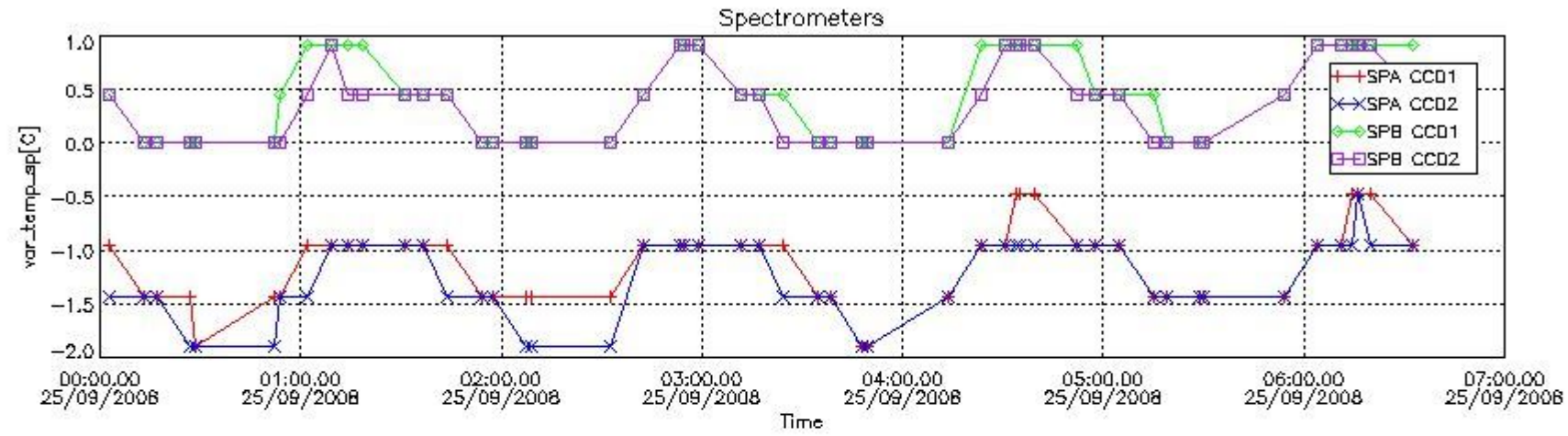
UTC start time	Star name	Star ID	Orbit
25-SEP-2008 01:12:36	31EtaCMa	88	34353
25-SEP-2008 02:49:55	15RhoPup	132	34354

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_1PNPDE20080925_000259_000000502072_00231_34353_6271.N1	25-SEP-2008 00:02:59	Twilight_stray	49.500	52	16Bet Cet	2.0370	4500.0	99	34353	No
2	GOM_TRA_1PNPDE20080925_001319_000000382072_00231_34353_6272.N1	25-SEP-2008 00:13:19	Bright	37.500	90	54Alp Peg	2.4870	11000.	75	34353	No
3	GOM_TRA_1PNPDE20080925_001702_000000372072_00231_34353_6273.N1	25-SEP-2008 00:17:02	Bright	36.500	93	53Bet Peg	2.5200	3100.0	73	34353	No
4	GOM_TRA_1PNPDE20080925_002648_000000402072_00231_34353_6274.N1	25-SEP-2008 00:26:48	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	34353	No
5	GOM_TRA_1PNPDE20080925_002820_000000402072_00231_34353_6275.N1	25-SEP-2008 00:28:20	Bright	39.500	76	27Gam Cas	2.3000	30000.	79	34353	No
6	GOM_TRA_1PNPDE20080925_005213_000000512072_00231_34353_6276.N1	25-SEP-2008 00:52:13	Bright	51.000	24	66Alp Gem	1.5800	10200.	102	34353	No
7	GOM_TRA_1PNPDE20080925_005333_000000532072_00231_34353_6277.N1	25-SEP-2008 00:53:33	Bright	52.500	17	78Bet Gem	1.1610	4500.0	105	34353	No
8	GOM_TRA_1PNPDE20080925_010202_000000682072_00231_34353_6278.N1	25-SEP-2008 01:02:02	Dark	67.500	8	10Alp CMi	0.40000	6500.0	135	34353	No
9	GOM_TRA_1PNPDE20080925_010918_000000442072_00231_34353_6399.N1	25-SEP-2008 01:09:18	Dark	44.000	132	15Rho Pup	2.8030	6900.0	88	34353	No

10	GOM_TRA_1PNPDE20080925_011404_00000502072_00231_34353_6400.N1	25-SEP-2008 01:14:04	Dark	49.500	23	21Eps CMa	1.5020	26000.	99	34353	No
11	GOM_TRA_1PNPDE20080925_011817_00000422072_00232_34354_6401.N1	25-SEP-2008 01:18:17	Dark	41.500	161	Tau Pup	2.9310	4500.0	83	34354	No
12	GOM_TRA_1PNPDE20080925_013055_00000452072_00232_34354_6402.N1	25-SEP-2008 01:30:55	Dark	44.500	9	Alp Eri	0.45300	24000.	89	34354	No
13	GOM_TRA_1PNPDE20080925_013625_00000412072_00232_34354_6403.N1	25-SEP-2008 01:36:25	Straylight	40.500	84	Alp Phe	2.3970	4500.0	81	34354	No
14	GOM_TRA_1PNPDE20080925_014335_00000502072_00232_34354_6404.N1	25-SEP-2008 01:43:35	Tw_i_and_stray	50.000	52	16Bet Cet	2.0370	4500.0	100	34354	No
15	GOM_TRA_1PNPDE20080925_015355_00000362072_00232_34354_6405.N1	25-SEP-2008 01:53:55	Bright	35.500	90	54Alp Peg	2.4870	11000.	71	34354	No
16	GOM_TRA_1PNPDE20080925_015738_00000402072_00232_34354_6406.N1	25-SEP-2008 01:57:38	Bright	39.500	93	53Bet Peg	2.5200	3100.0	79	34354	No
17	GOM_TRA_1PNPDE20080925_020724_00000362072_00232_34354_6407.N1	25-SEP-2008 02:07:24	Bright	35.500	74	11Bet Cas	2.2680	6600.0	71	34354	No
18	GOM_TRA_1PNPDE20080925_020855_00000372072_00232_34354_6408.N1	25-SEP-2008 02:08:55	Bright	37.000	76	27Gam Cas	2.3000	30000.	74	34354	No
19	GOM_TRA_1PNPDE20080925_023249_00000512072_00232_34354_6559.N1	25-SEP-2008 02:32:49	Bright	51.000	24	66Alp Gem	1.5800	10200.	102	34354	No
20	GOM_TRA_1PNPDE20080925_024239_00000632072_00232_34354_6560.N1	25-SEP-2008 02:42:39	Dark	63.000	8	10Alp CMi	0.40000	6500.0	126	34354	No
21	GOM_TRA_1PNPDE20080925_025313_00000482072_00232_34354_6561.N1	25-SEP-2008 02:53:13	Dark	48.000	88	31Eta CMa	2.4480	20000.	96	34354	No
22	GOM_TRA_1PNPDE20080925_025441_00000532072_00232_34354_6562.N1	25-SEP-2008 02:54:41	Dark	53.000	23	21Eps CMa	1.5020	26000.	106	34354	No
23	GOM_TRA_1PNPDE20080925_025853_00000492072_00233_34355_6563.N1	25-SEP-2008 02:58:53	Dark	49.000	161	Tau Pup	2.9310	4500.0	98	34355	No
24	GOM_TRA_1PNPDE20080925_031131_00000512072_00233_34355_6564.N1	25-SEP-2008 03:11:31	Dark	50.500	9	Alp Eri	0.45300	24000.	101	34355	No
25	GOM_TRA_1PNPDE20080925_031701_00000442072_00233_34355_6565.N1	25-SEP-2008 03:17:01	Straylight	43.500	84	Alp Phe	2.3970	4500.0	87	34355	No
26	GOM_TRA_1PNPDE20080925_032411_00000502072_00233_34355_6566.N1	25-SEP-2008 03:24:11	Tw_i_and_stray	50.000	52	16Bet Cet	2.0370	4500.0	100	34355	No
27	GOM_TRA_1PNPDE20080925_033431_00000382072_00233_34355_6567.N1	25-SEP-2008 03:34:31	Bright	37.500	90	54Alp Peg	2.4870	11000.	75	34355	No
28	GOM_TRA_1PNPDE20080925_033814_00000362072_00233_34355_6568.N1	25-SEP-2008 03:38:14	Bright	36.000	93	53Bet Peg	2.5200	3100.0	72	34355	No
29	GOM_TRA_1PNPDE20080925_034759_00000392072_00233_34355_6569.N1	25-SEP-2008 03:47:59	Bright	38.500	74	11Bet Cas	2.2680	6600.0	77	34355	No
30	GOM_TRA_1PNPDE20080925_034930_00000412072_00233_34355_6570.N1	25-SEP-2008 03:49:30	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	34355	No
31	GOM_TRA_1PNPDE20080925_041325_00000512072_00233_34355_6761.N1	25-SEP-2008 04:13:25	Bright	51.000	24	66Alp Gem	1.5800	10200.	102	34355	No
32	GOM_TRA_1PNPDE20080925_042316_00000632072_00233_34355_6762.N1	25-SEP-2008 04:23:16	Dark	63.000	8	10Alp CMi	0.40000	6500.0	126	34355	No
33	GOM_TRA_1PNPDE20080925_043032_00000432072_00233_34355_6763.N1	25-SEP-2008 04:30:32	Dark	43.000	132	15Rho Pup	2.8030	6900.0	86	34355	No
34	GOM_TRA_1PNPDE20080925_043349_00000452072_00233_34355_6764.N1	25-SEP-2008 04:33:49	Dark	44.500	88	31Eta CMa	2.4480	20000.	89	34355	No
35	GOM_TRA_1PNPDE20080925_043518_00000512072_00233_34355_6765.N1	25-SEP-2008 04:35:18	Dark	51.000	23	21Eps CMa	1.5020	26000.	102	34355	No
36	GOM_TRA_1PNPDE20080925_043930_00000422072_00234_34356_6766.N1	25-SEP-2008 04:39:30	Dark	42.000	161	Tau Pup	2.9310	4500.0	84	34356	No
37	GOM_TRA_1PNPDE20080925_045208_00000422072_00234_34356_6767.N1	25-SEP-2008 04:52:08	Dark	41.500	9	Alp Eri	0.45300	24000.	83	34356	No
38	GOM_TRA_1PNPDE20080925_045738_00000422072_00234_34356_6768.N1	25-SEP-2008 04:57:38	Straylight	41.500	84	Alp Phe	2.3970	4500.0	83	34356	No
39	GOM_TRA_1PNPDE20080925_050447_00000502072_00234_34356_6769.N1	25-SEP-2008 05:04:47	Tw_i_and_stray	50.000	52	16Bet Cet	2.0370	4500.0	100	34356	No
40	GOM_TRA_1PNPDE20080925_051507_00000362072_00234_34356_6770.N1	25-SEP-2008 05:15:07	Bright	36.000	90	54Alp Peg	2.4870	11000.	72	34356	No
41	GOM_TRA_1PNPDE20080925_051850_00000392072_00234_34356_6771.N1	25-SEP-2008 05:18:50	Bright	38.500	93	53Bet Peg	2.5200	3100.0	77	34356	No
42	GOM_TRA_1PNPDE20080925_052835_00000392072_00234_34356_6772.N1	25-SEP-2008 05:28:35	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	34356	No
43	GOM_TRA_1PNPDE20080925_053006_00000412072_00234_34356_6773.N1	25-SEP-2008 05:30:06	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	34356	No
44	GOM_TRA_1PNPDE20080925_055401_00000432072_00234_34356_6916.N1	25-SEP-2008 05:54:01	Bright	43.000	24	66Alp Gem	1.5800	10200.	86	34356	No
45	GOM_TRA_1PNPDE20080925_060353_00000602072_00234_34356_6917.N1	25-SEP-2008 06:03:53	Dark	59.500	8	10Alp CMi	0.40000	6500.0	119	34356	No
46	GOM_TRA_1PNPDE20080925_061108_00000422072_00234_34356_6918.N1	25-SEP-2008 06:11:08	Dark	42.000	132	15Rho Pup	2.8030	6900.0	84	34356	No
47	GOM_TRA_1PNPDE20080925_061426_00000482072_00234_34356_6919.N1	25-SEP-2008 06:14:26	Dark	48.000	88	31Eta CMa	2.4480	20000.	96	34356	No
48	GOM_TRA_1PNPDE20080925_061555_00000542072_00234_34356_6920.N1	25-SEP-2008 06:15:55	Dark	54.000	23	21Eps CMa	1.5020	26000.	108	34356	No
49	GOM_TRA_1PNPDE20080925_062007_00000422072_00235_34357_6921.N1	25-SEP-2008 06:20:07	Dark	41.500	161	Tau Pup	2.9310	4500.0	83	34357	No
50	GOM_TRA_1PNPDE20080925_063244_00000502072_00235_34357_6922.N1	25-SEP-2008 06:32:44	Dark	50.000	9	Alp Eri	0.45300	24000.	100	34357	No

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



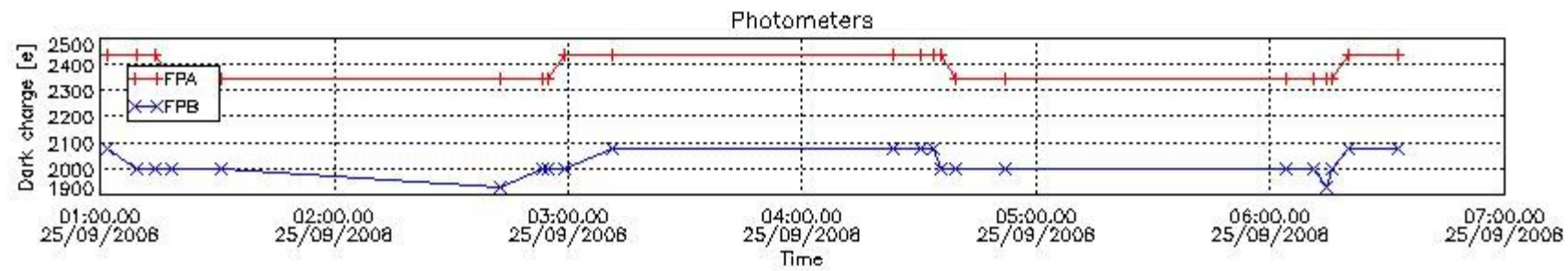
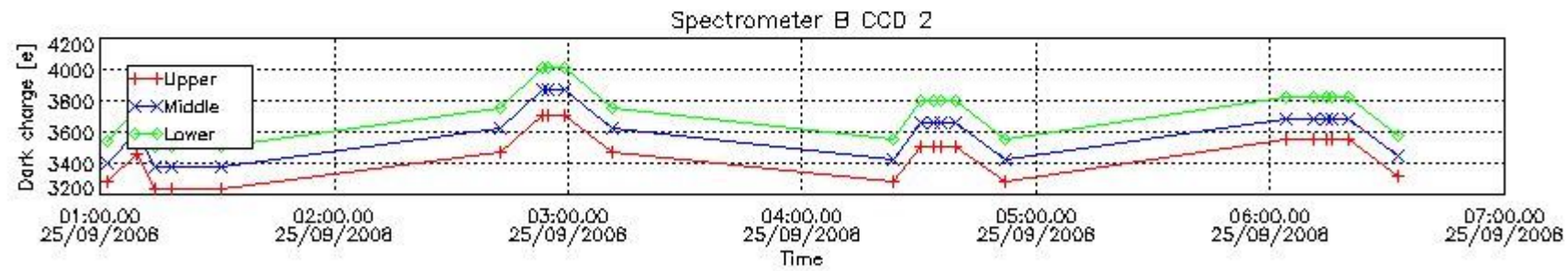
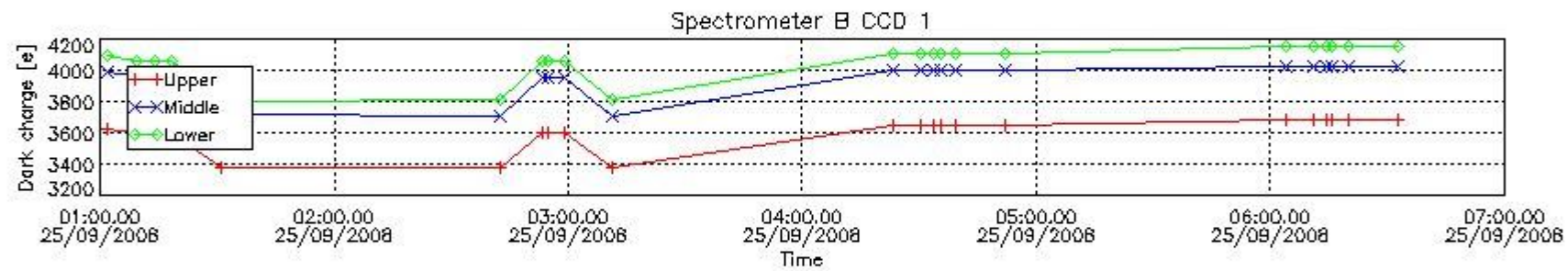
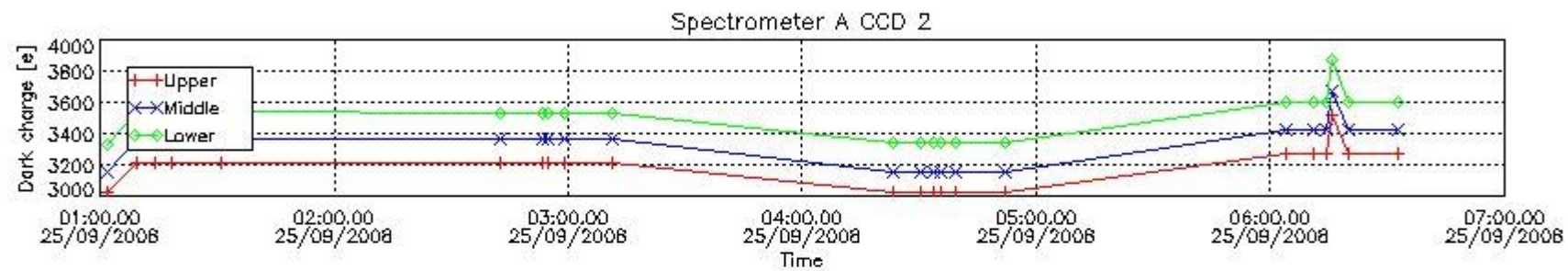
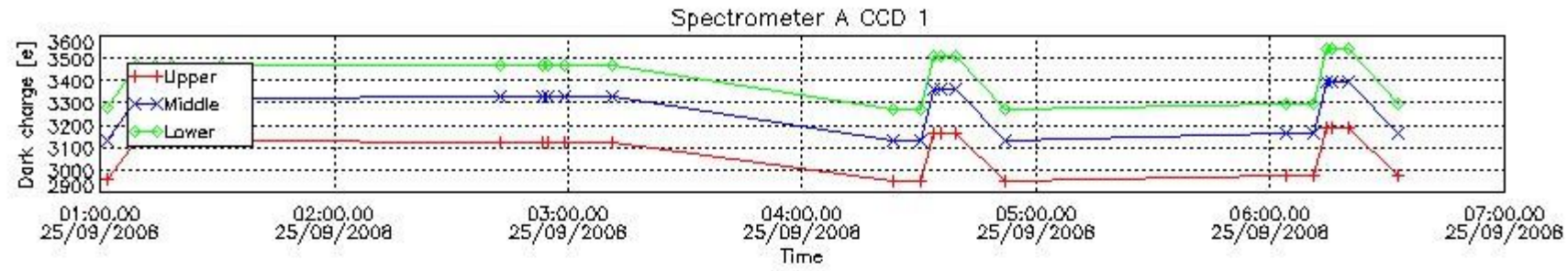
4. Overview of dark signal processing per product

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



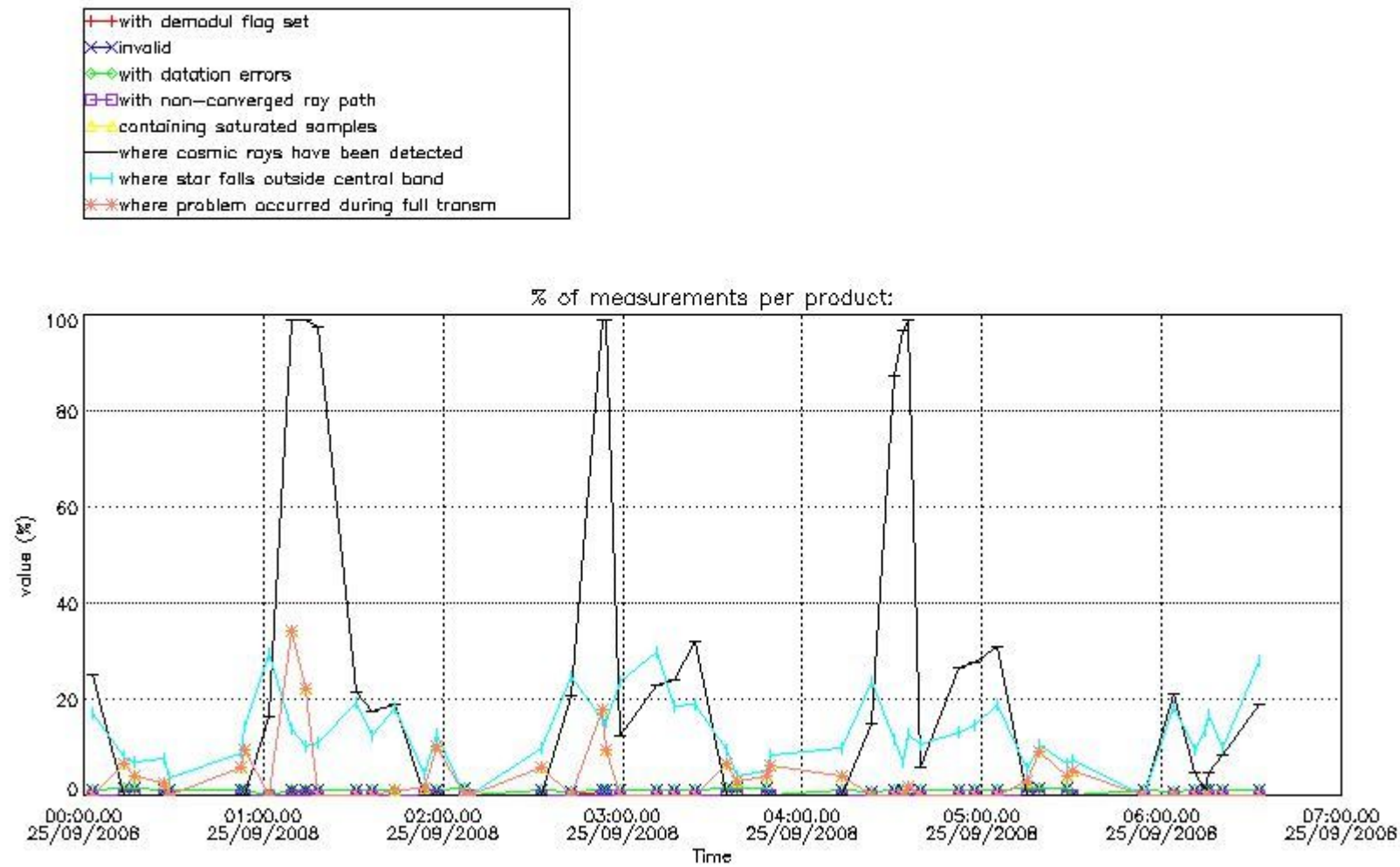
5. Demodulation flag and quality information monitoring

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.

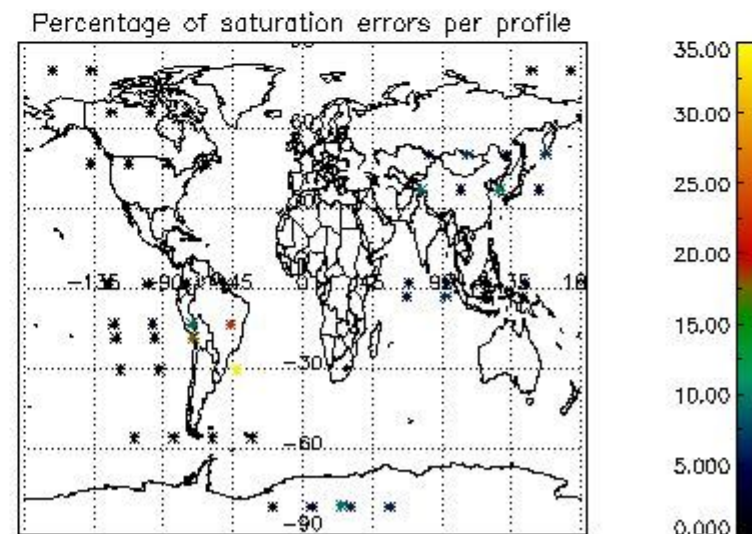
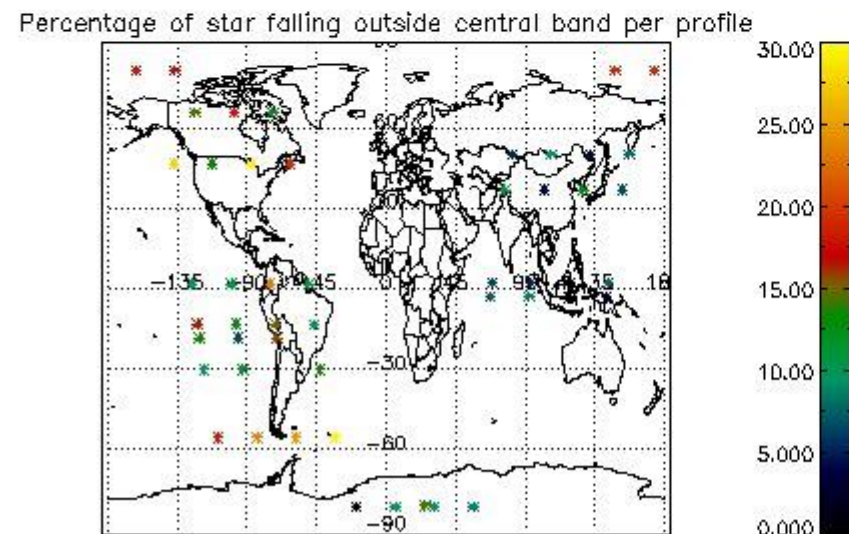
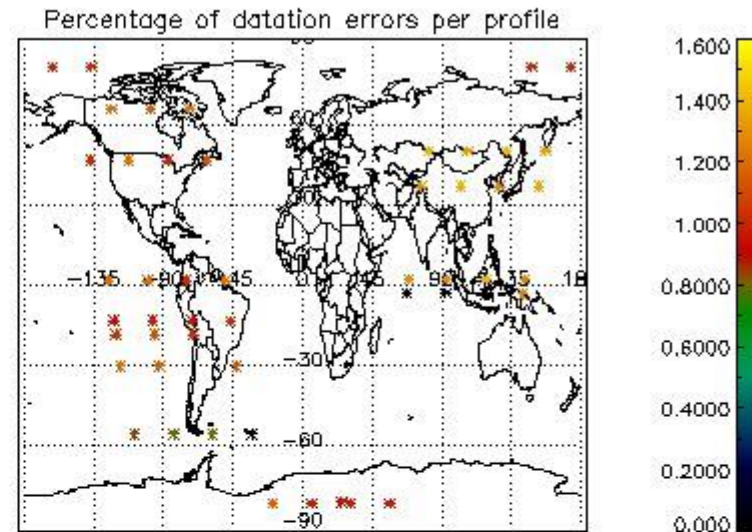
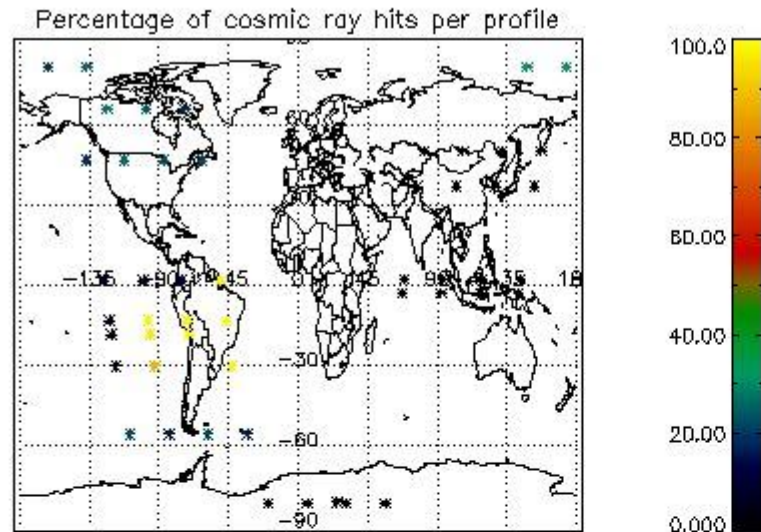
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	32.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



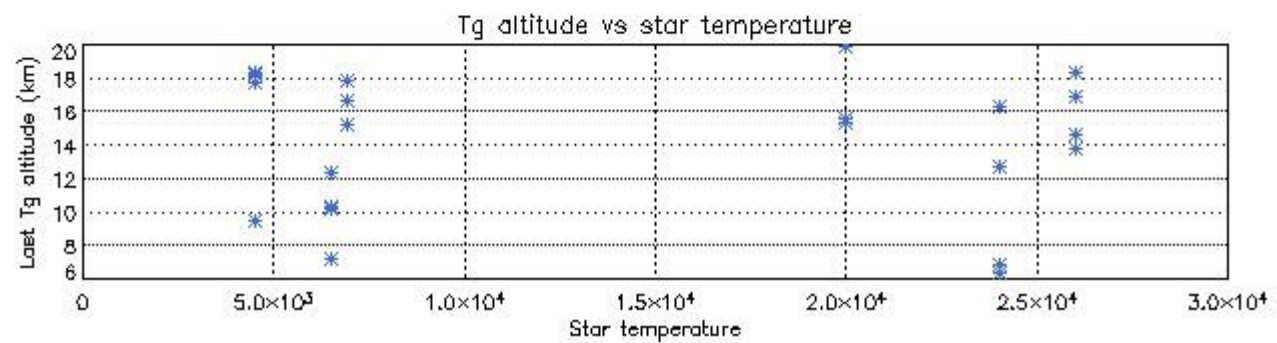
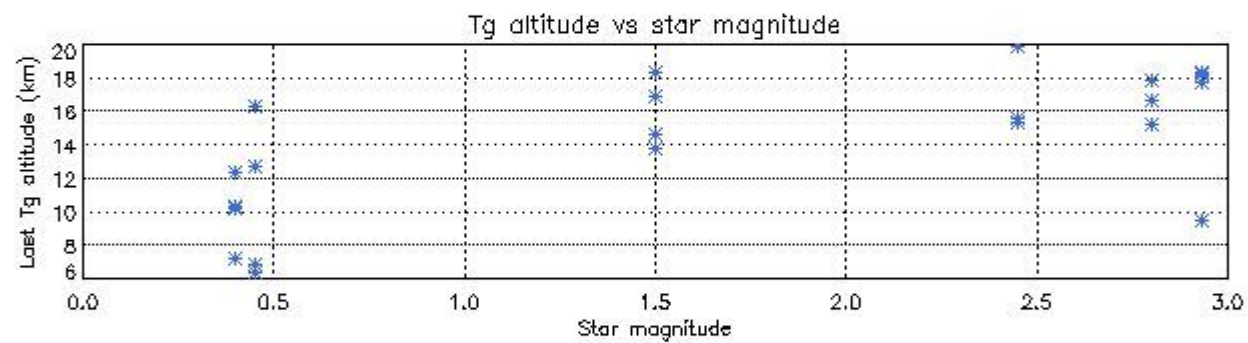
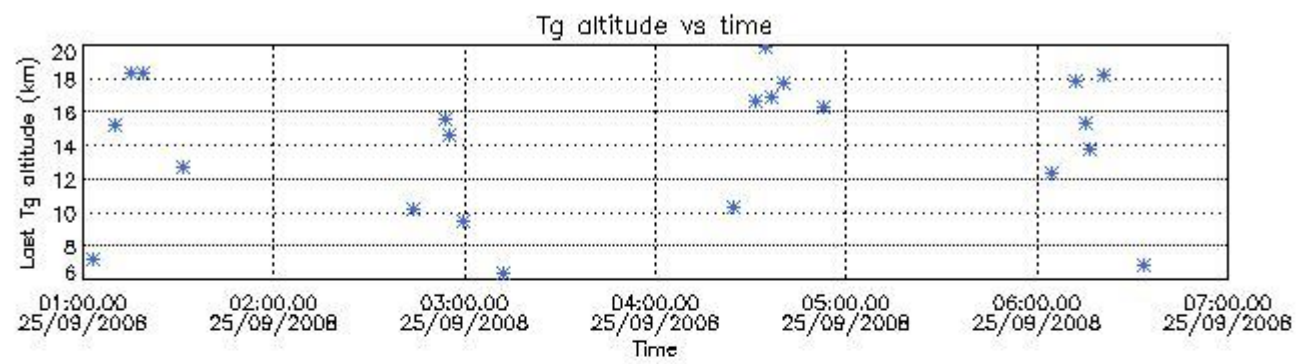
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.095	21.201	NaN
St. deviation:	4.1015	4.2490	NaN
Maximum:	19.873	31.541	NaN
Minimum:	6.3993	14.840	NaN
Number of data:	22.000	21.000	NaN

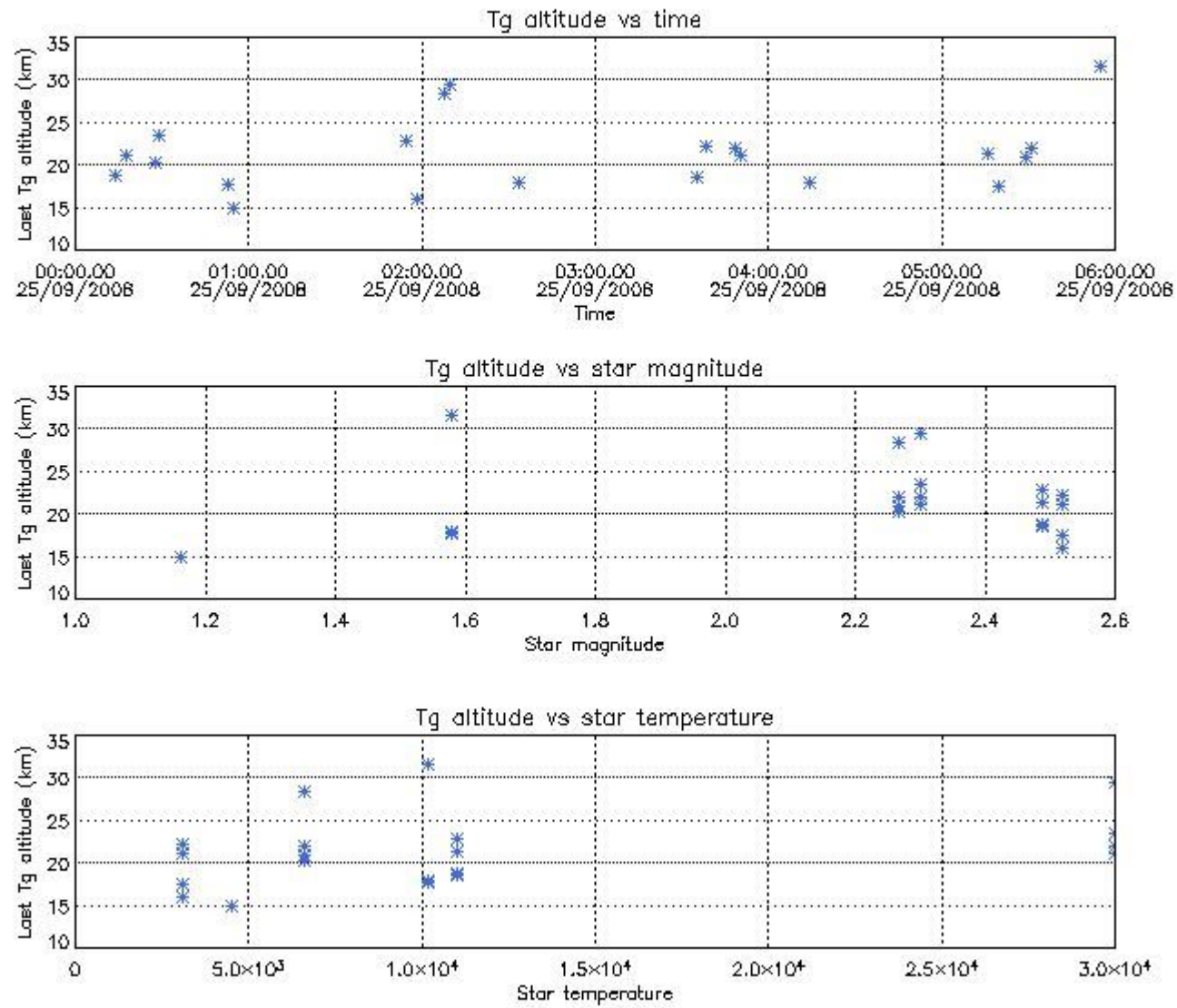
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

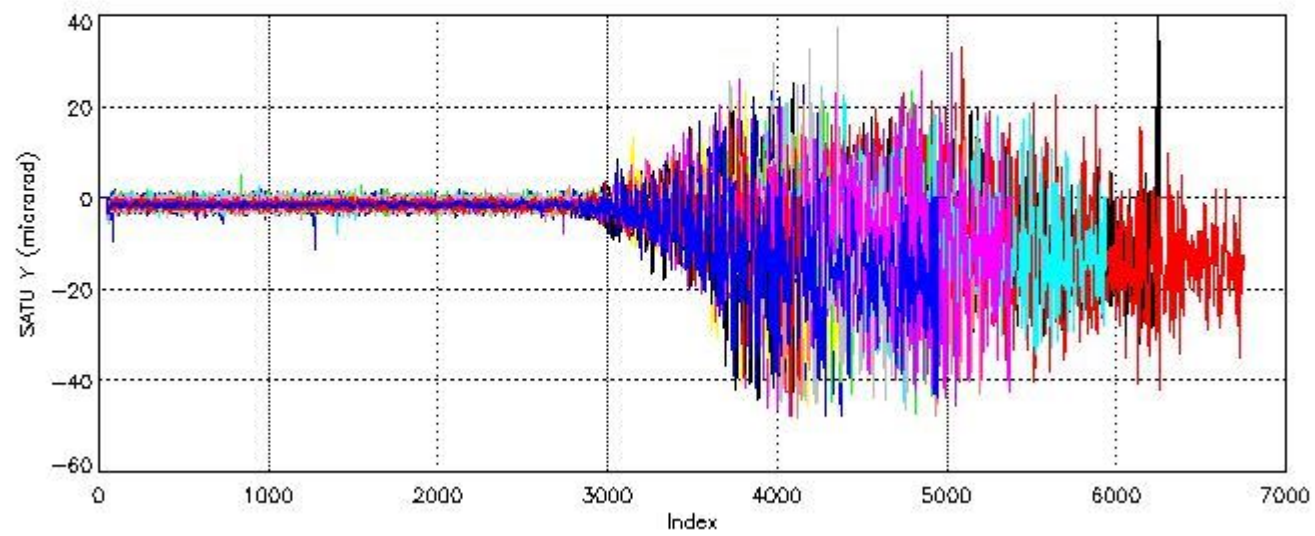
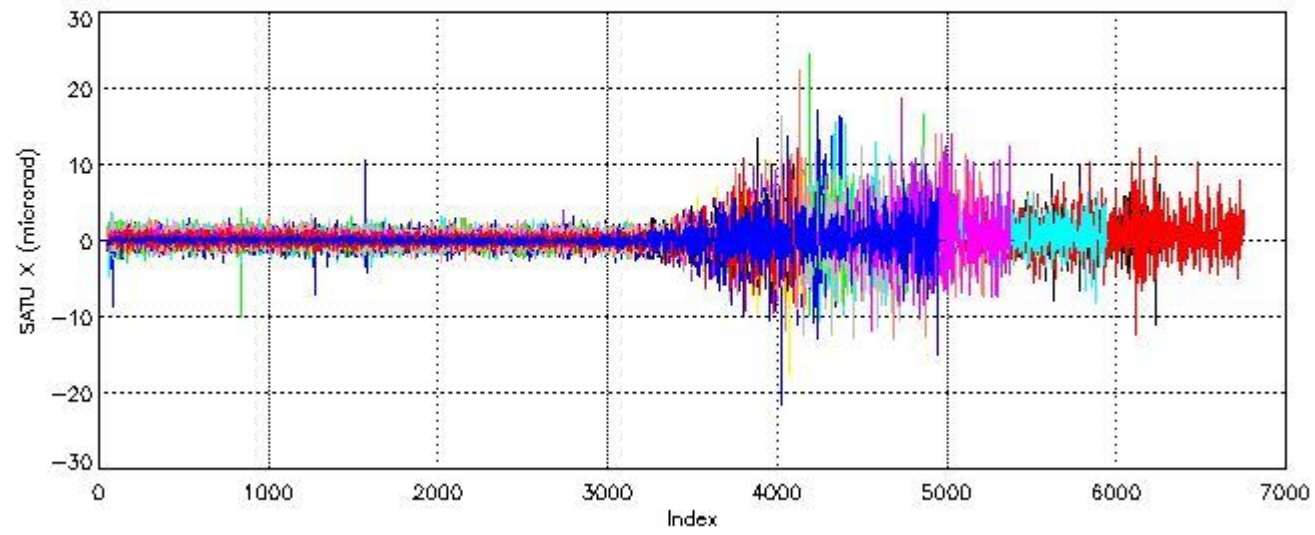


7. Star Acquisition and Tracking Unit (SATU)

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:	0.22291	-1.2700	0.24583	-1.3619
St. deviation:	0.48231	0.65619	0.63894	0.79592
Maximum:	4.1000	4.9000	4.2000	2.8000
Minimum:	-10.100	-9.7000	-3.6000	-5.7000

Number of data:	22850.	22850.	19700.	19700.
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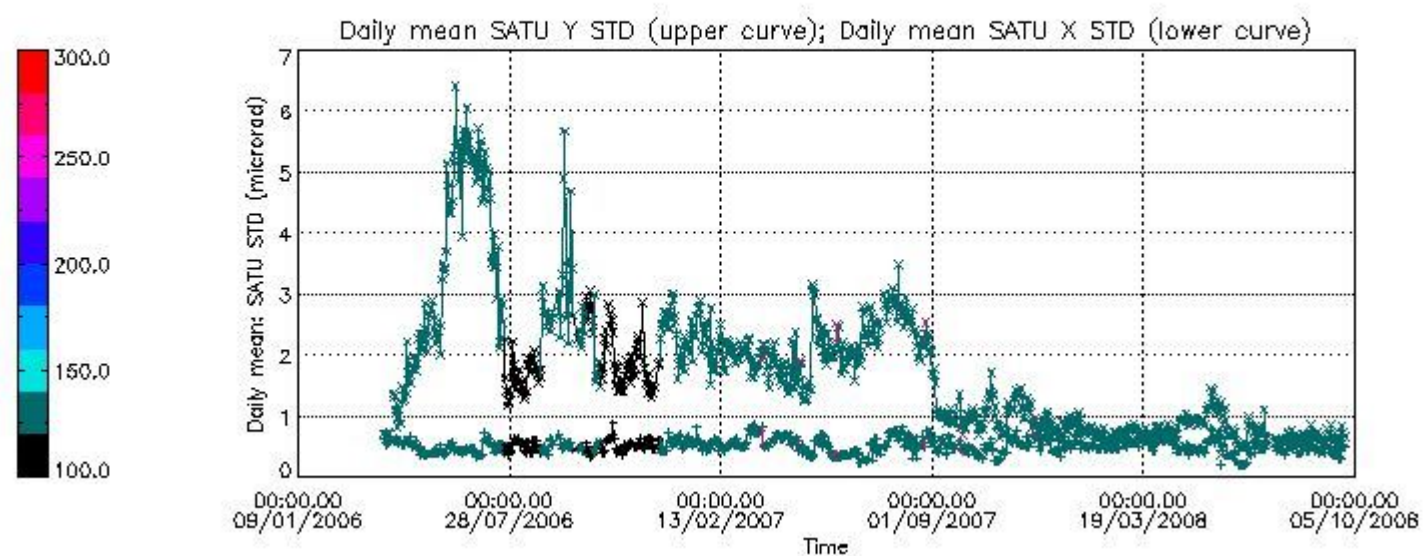
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

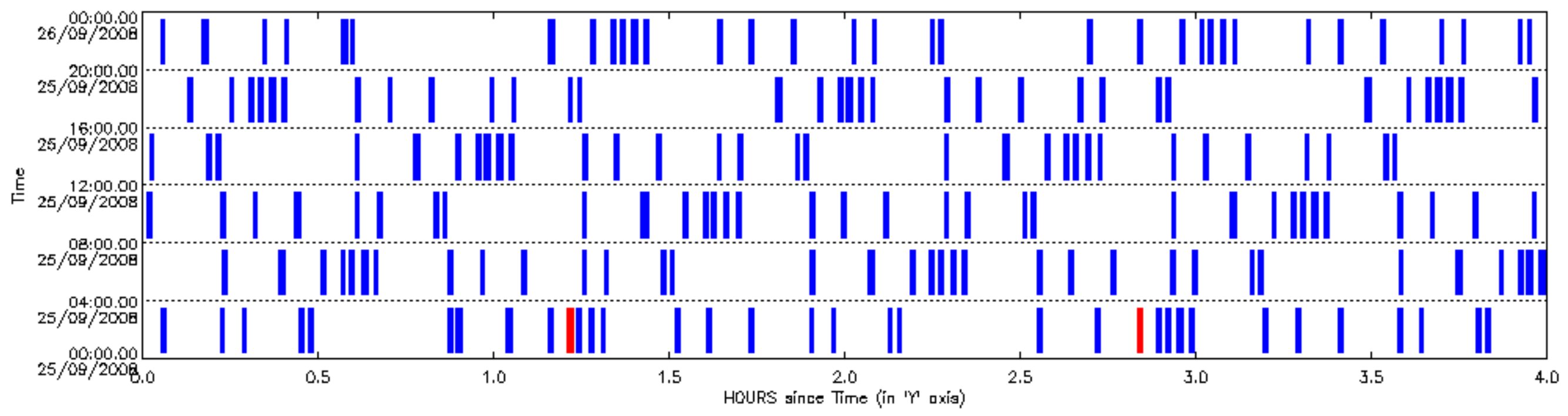
Lower curve: STD of SATU X axis

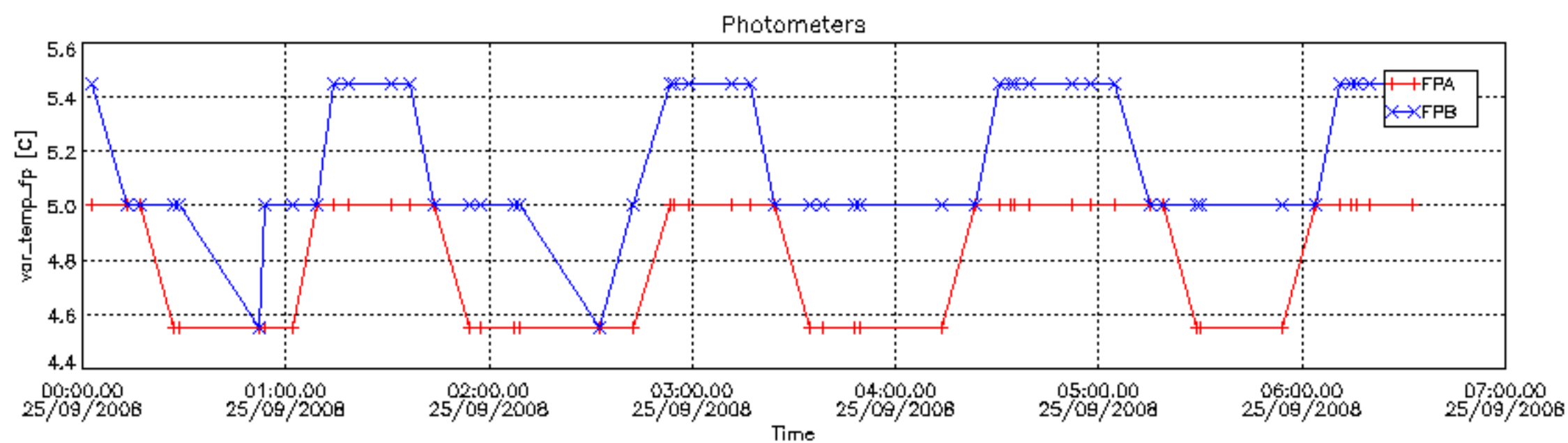
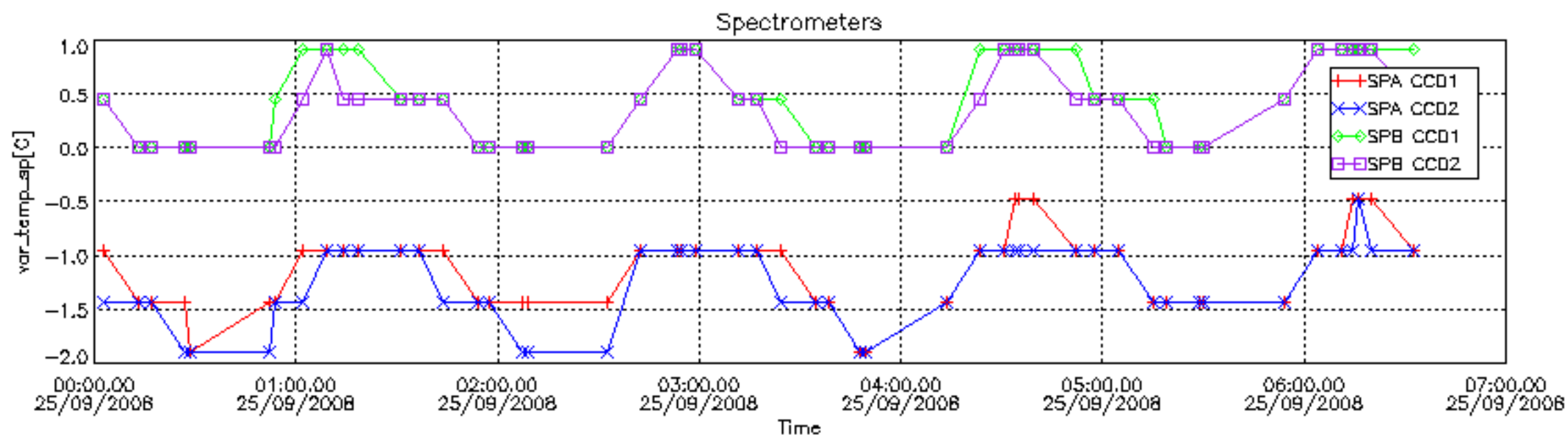


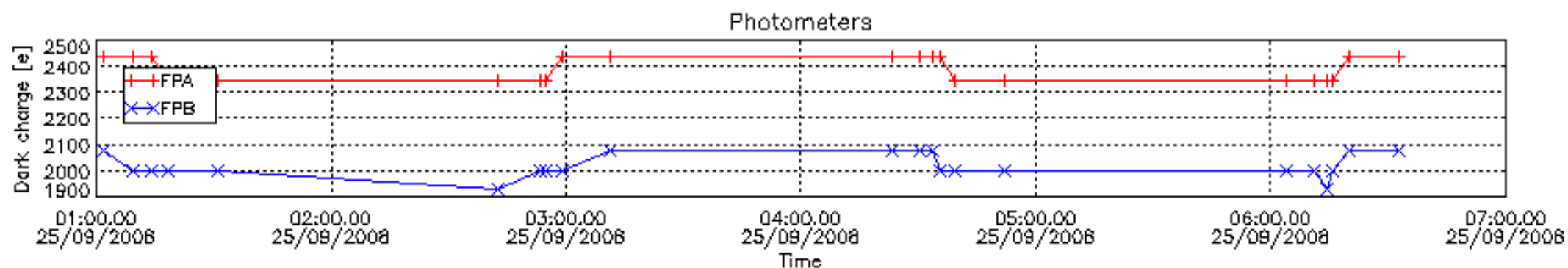
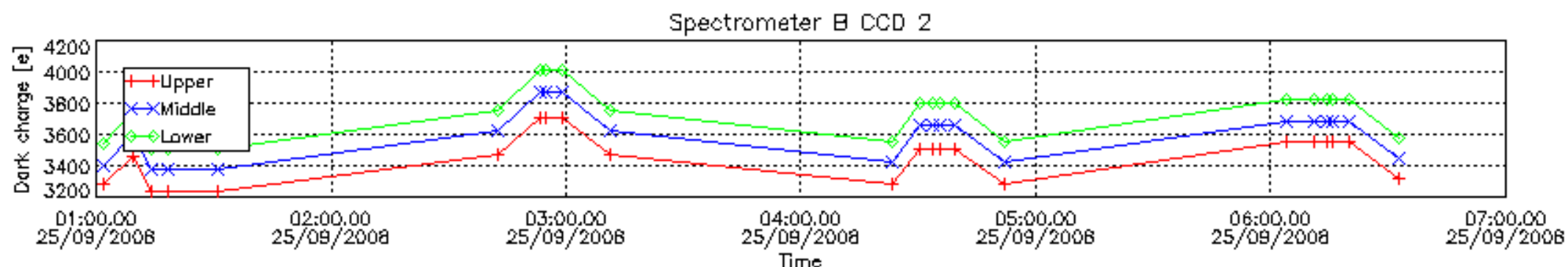
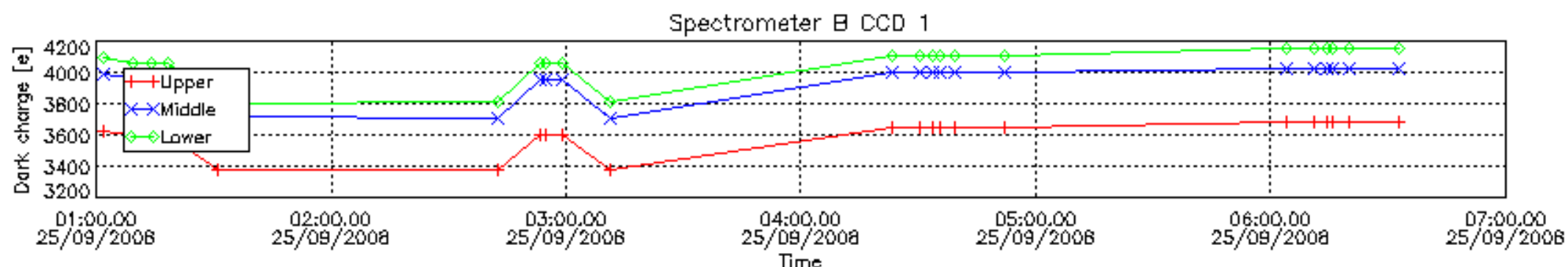
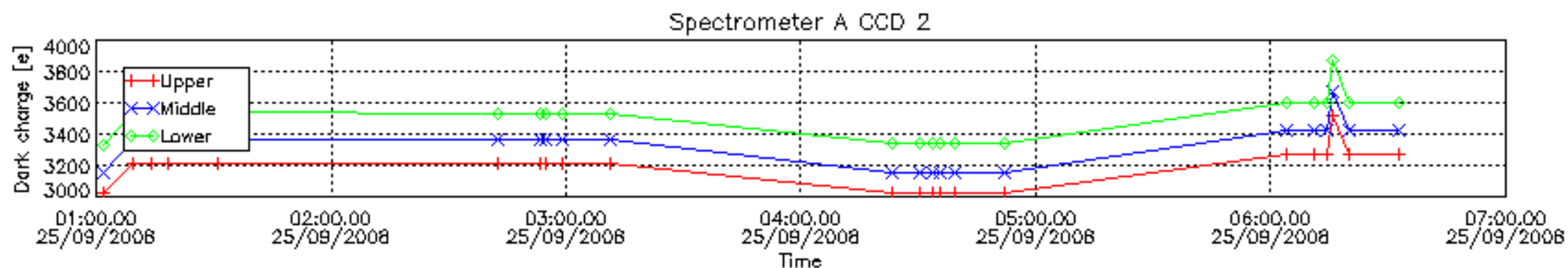
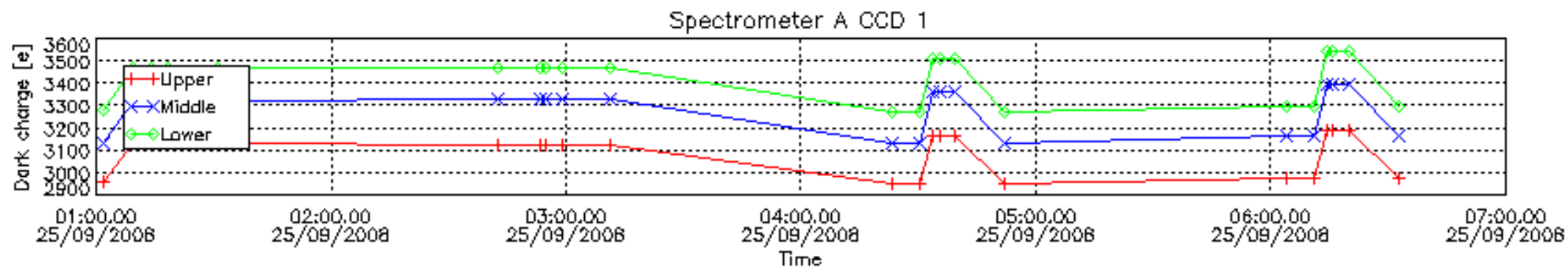
8. Auxiliary Data Files used for the production reported in section 2.4

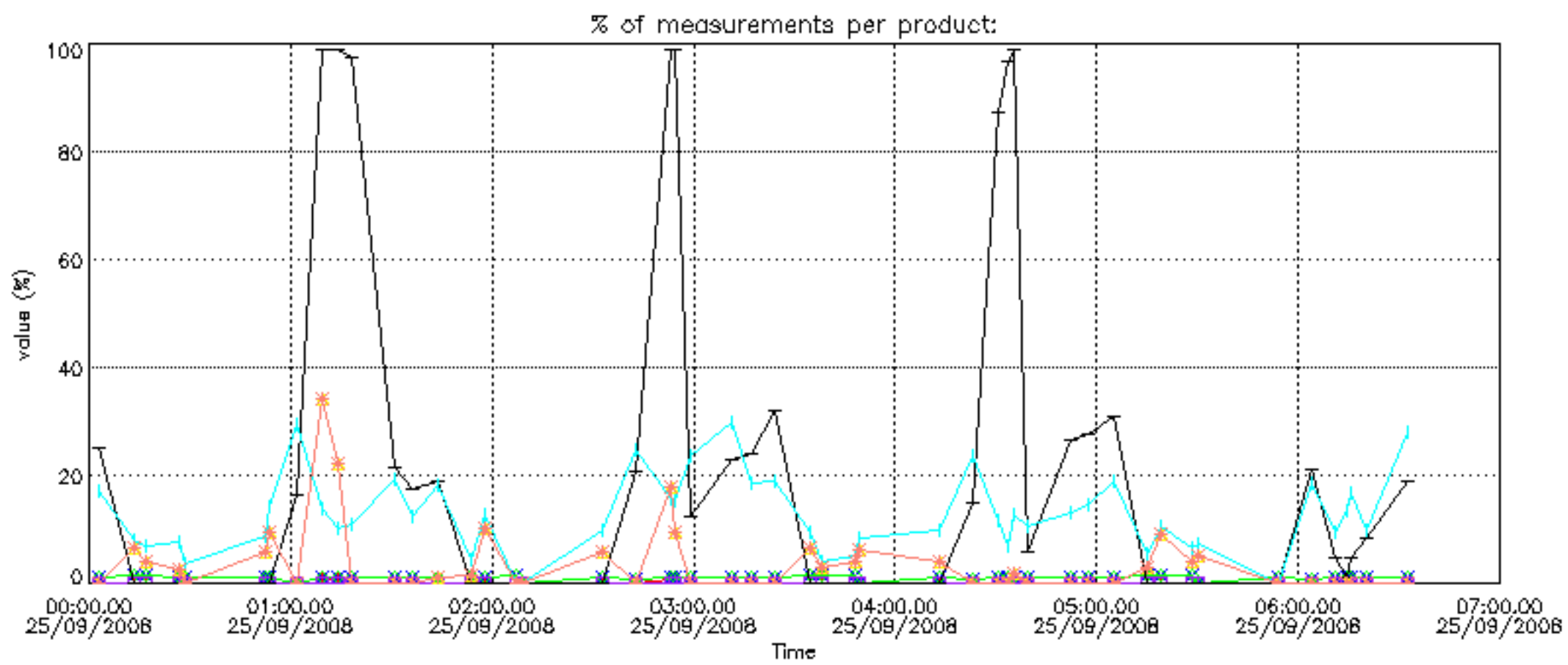
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	25-SEP-2008 00:02:59
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080922_092941_20080919_000000_20100101_000000	1	25-SEP-2008 00:02:59
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	25-SEP-2008 00:02:59
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	25-SEP-2008 00:02:59
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	25-SEP-2008 00:02:59
ECMWF_FILE	AUX_ECF_AXNECM20080924_072112_20080924_210000_20080925_090000	1	25-SEP-2008 00:02:59
ECMWF_FILE	AUX_ECF_AXNECM20080924_190114_20080925_030000_20080925_150000	31	25-SEP-2008 04:13:25
OPTIONAL_ECMWF_FILE	MISSING	1	25-SEP-2008 00:02:59
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080924_213744_000060572072_00229_34351_6425.N1	1	25-SEP-2008 00:02:59
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080924_232400_000057382072_00230_34352_6426.N1	9	25-SEP-2008 01:09:18
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080925_010457_000041442072_00231_34353_6427.N1	19	25-SEP-2008 02:32:49
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080925_021920_000054192072_00232_34354_6428.N1	31	25-SEP-2008 04:13:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080925_035458_000057382072_00233_34355_6429.N1	44	25-SEP-2008 05:54:01

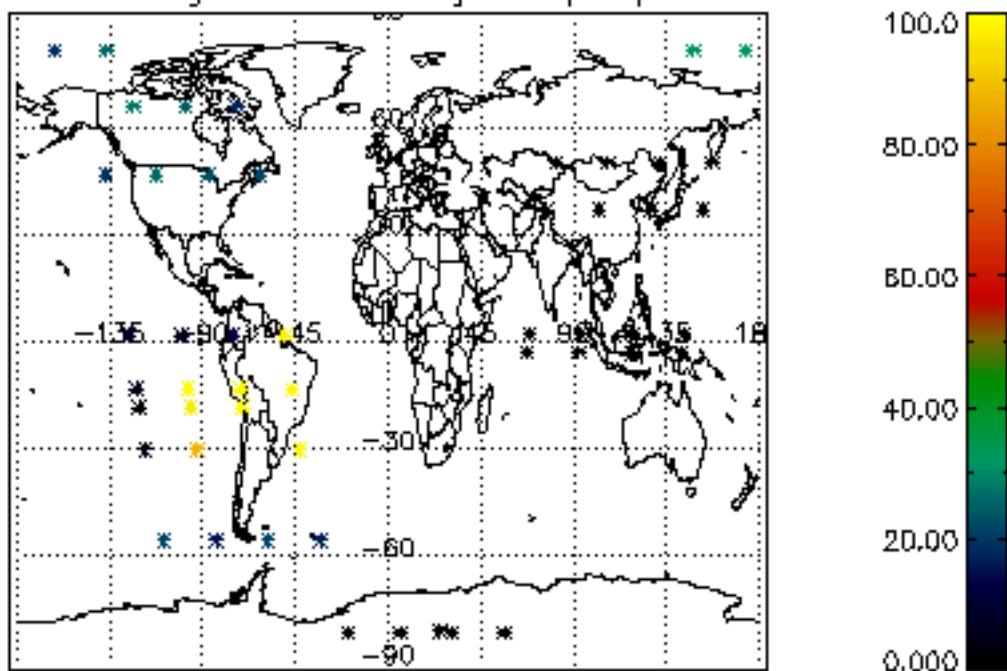




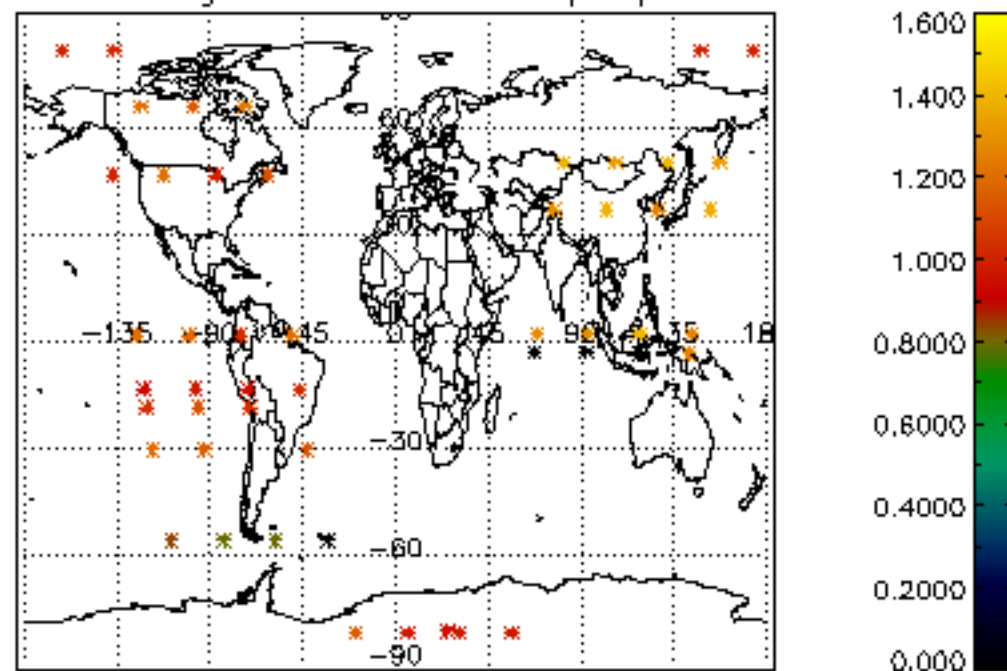




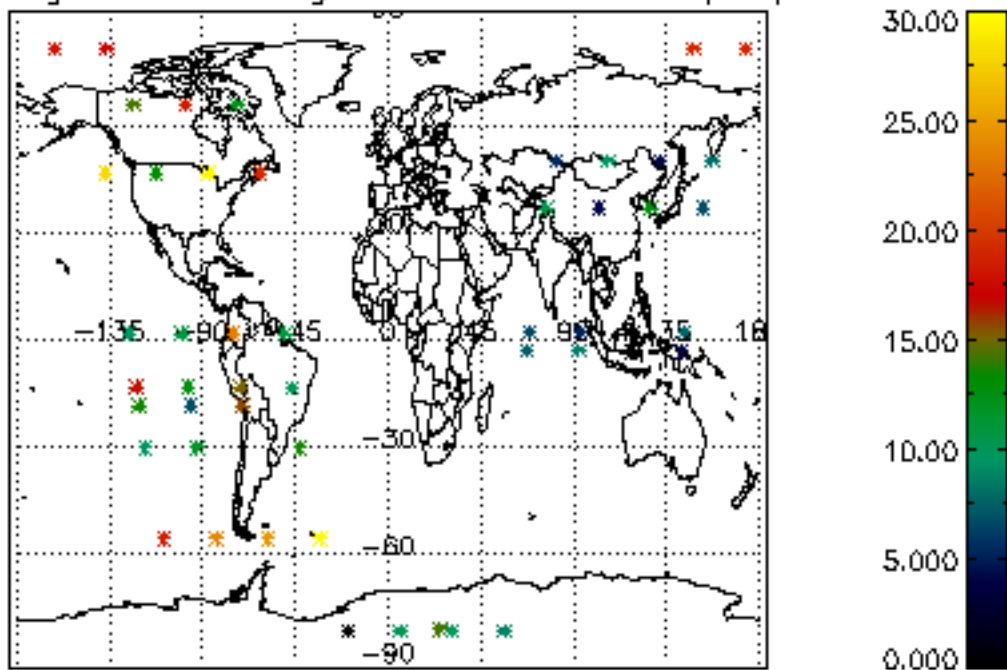
Percentage of cosmic ray hits per profile



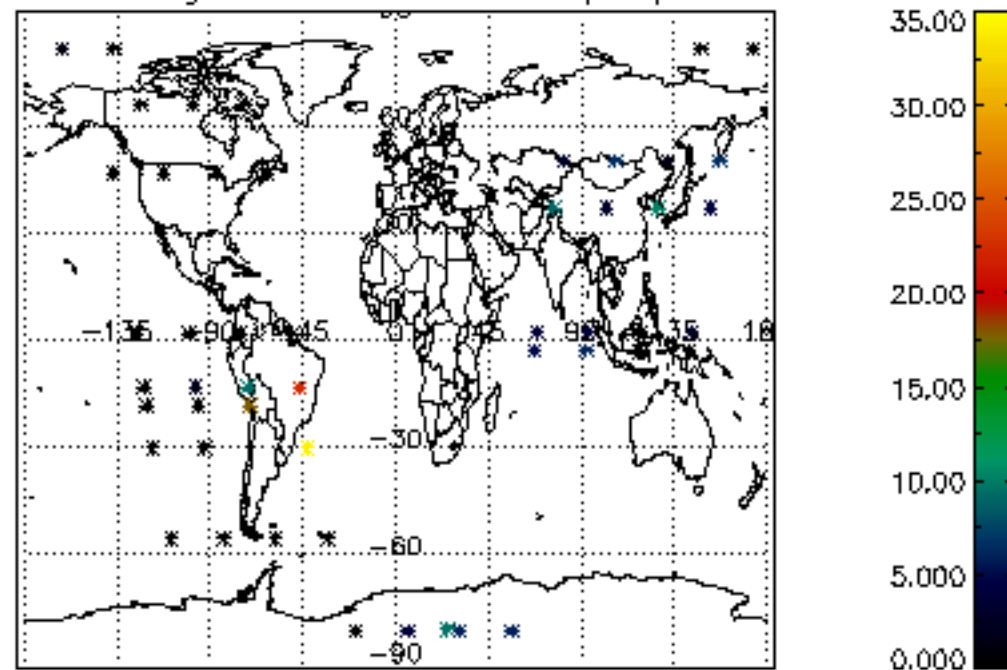
Percentage of datation errors per profile



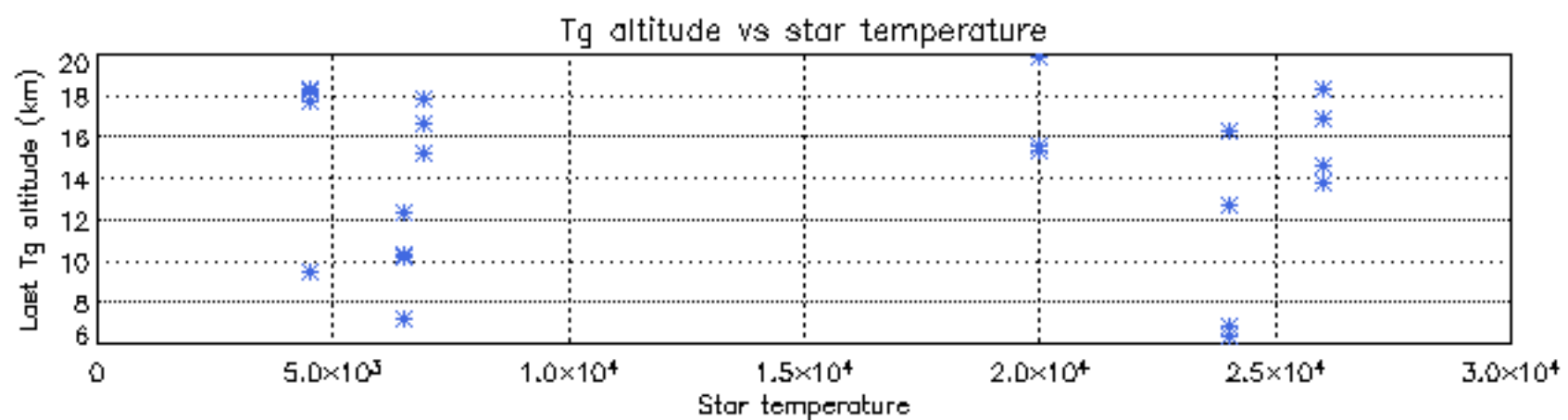
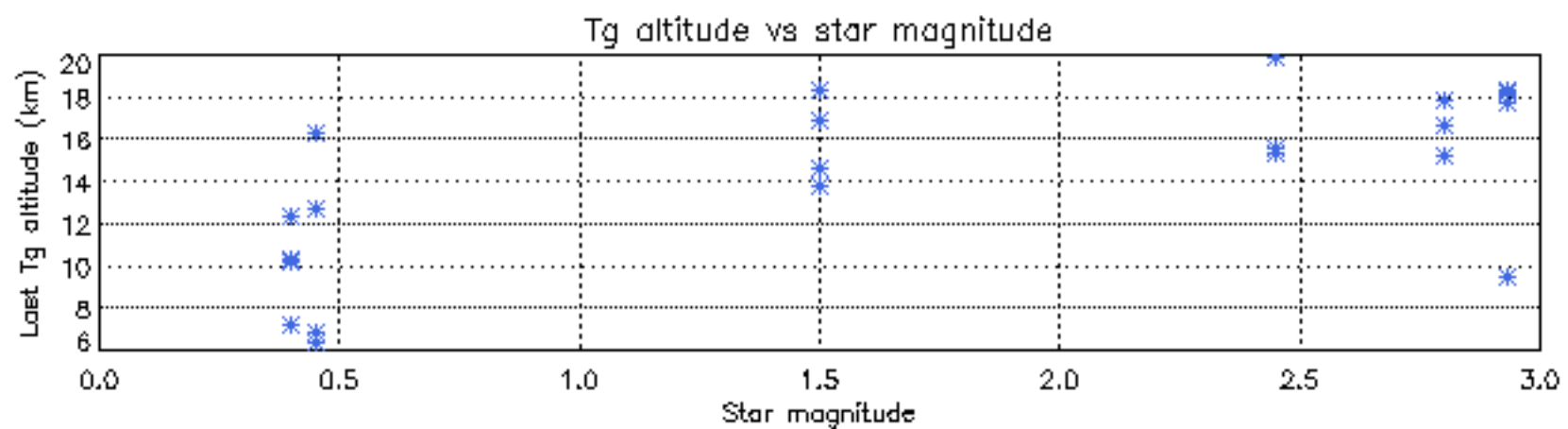
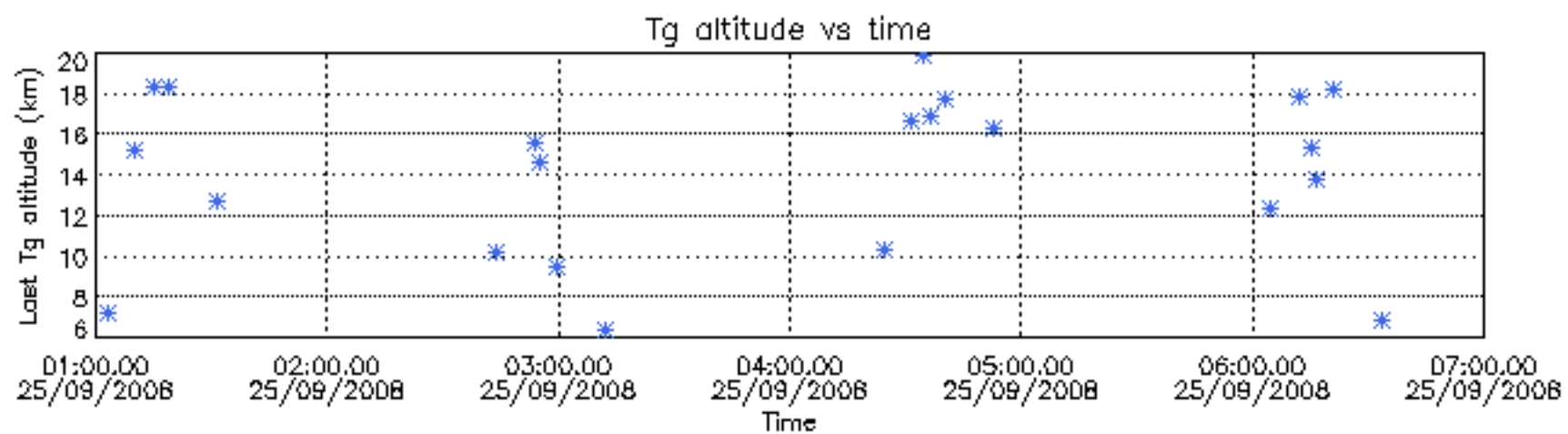
Percentage of star falling outside central band per profile



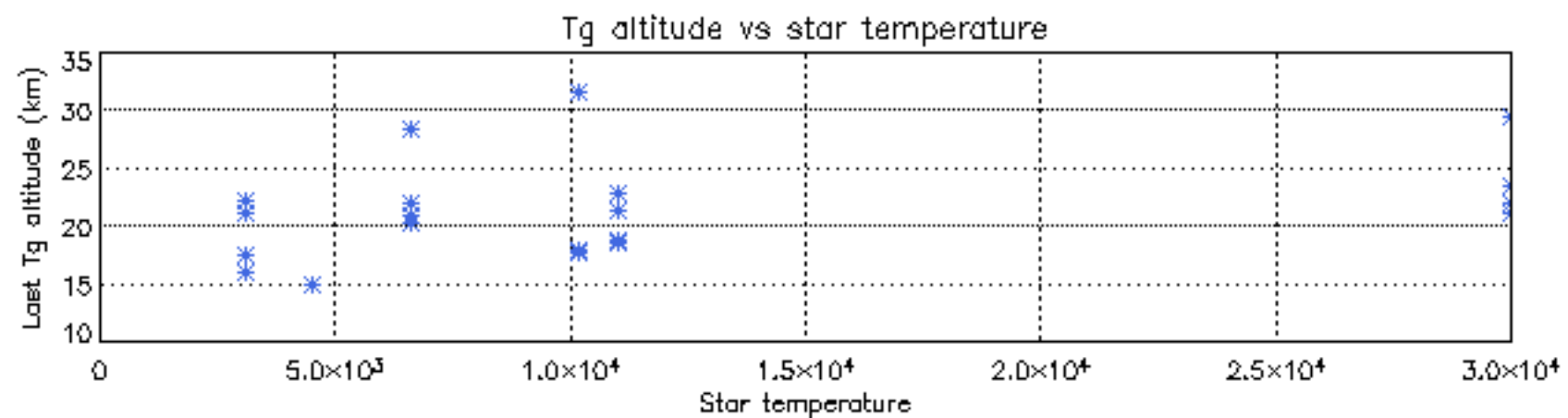
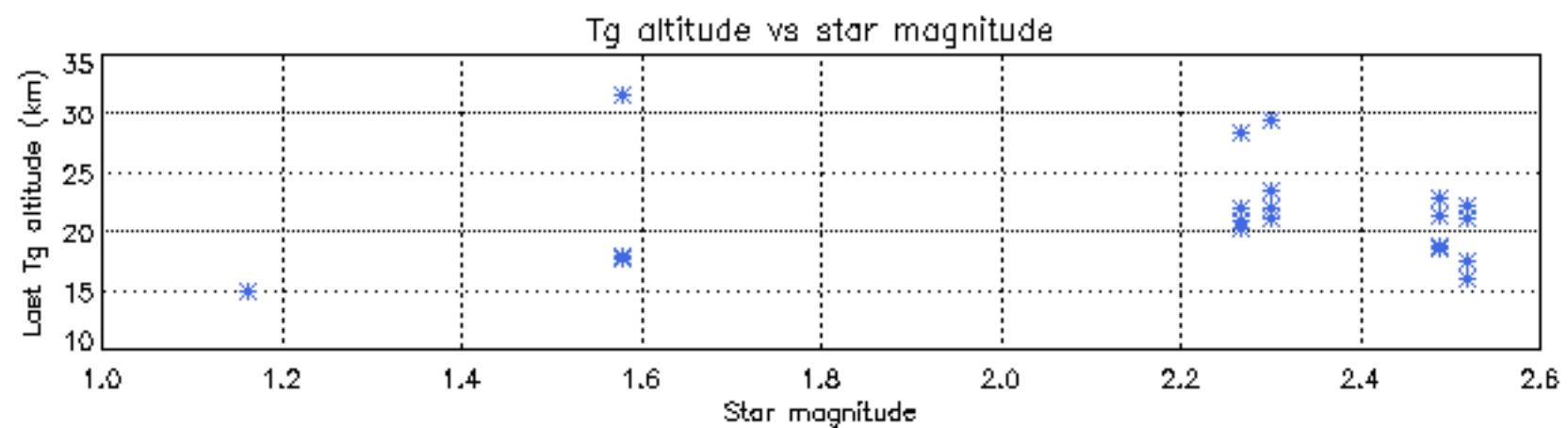
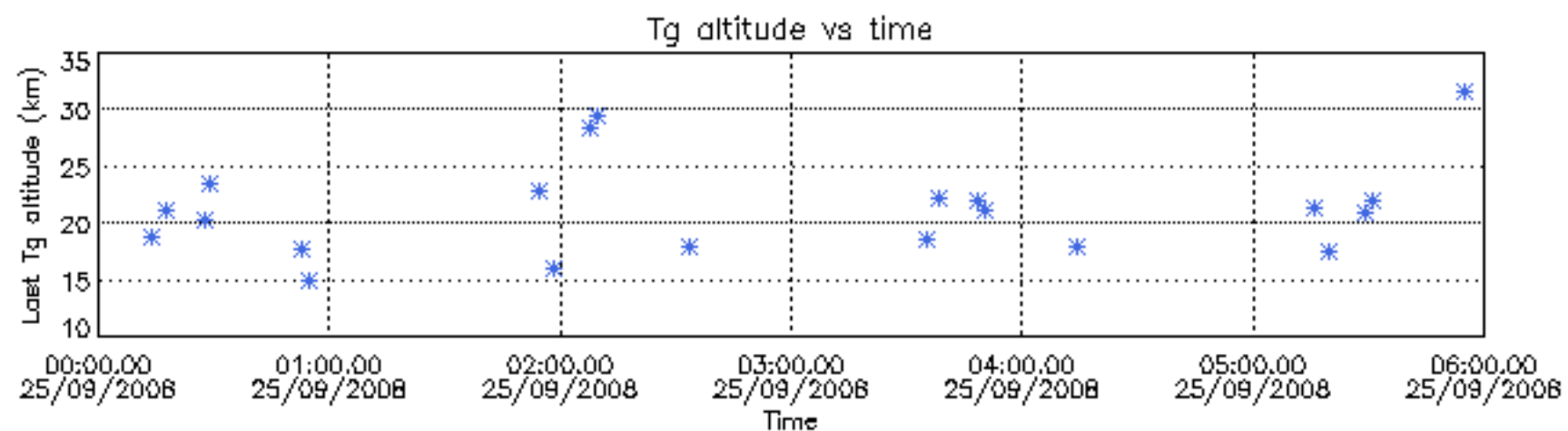
Percentage of saturation errors per profile

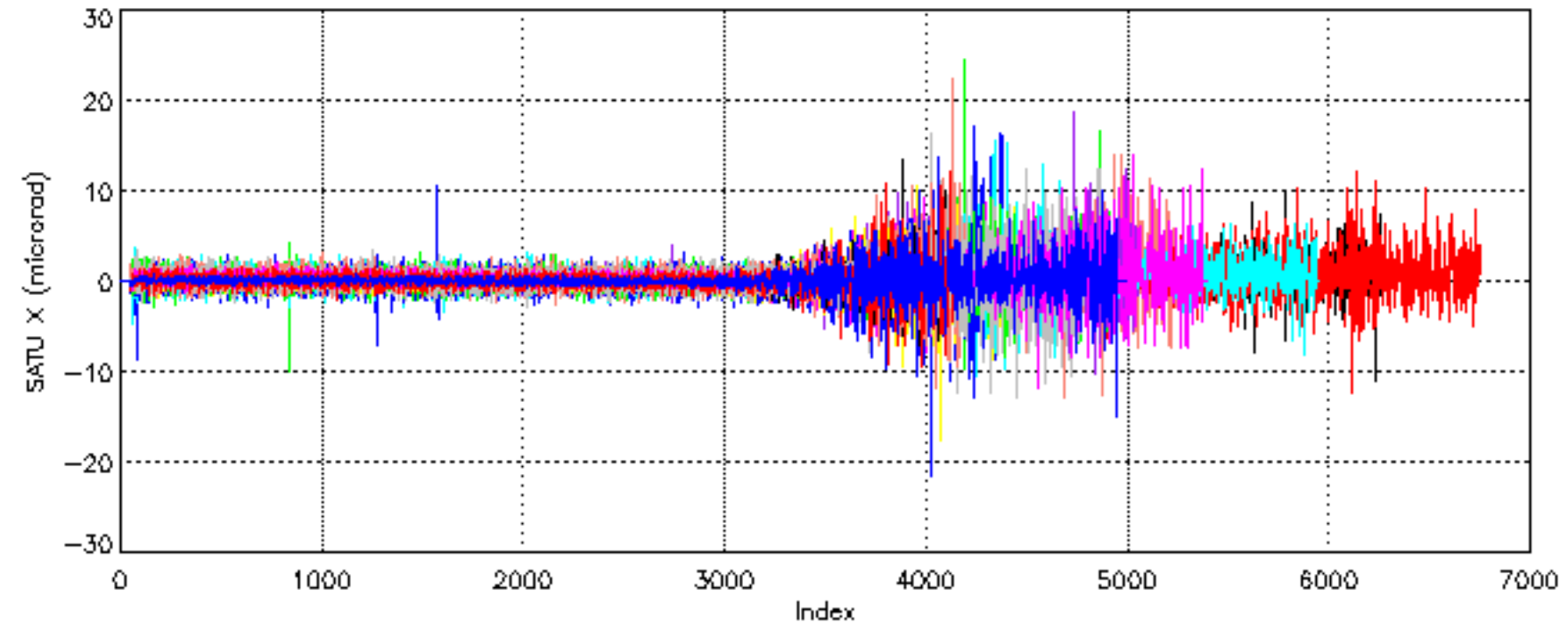


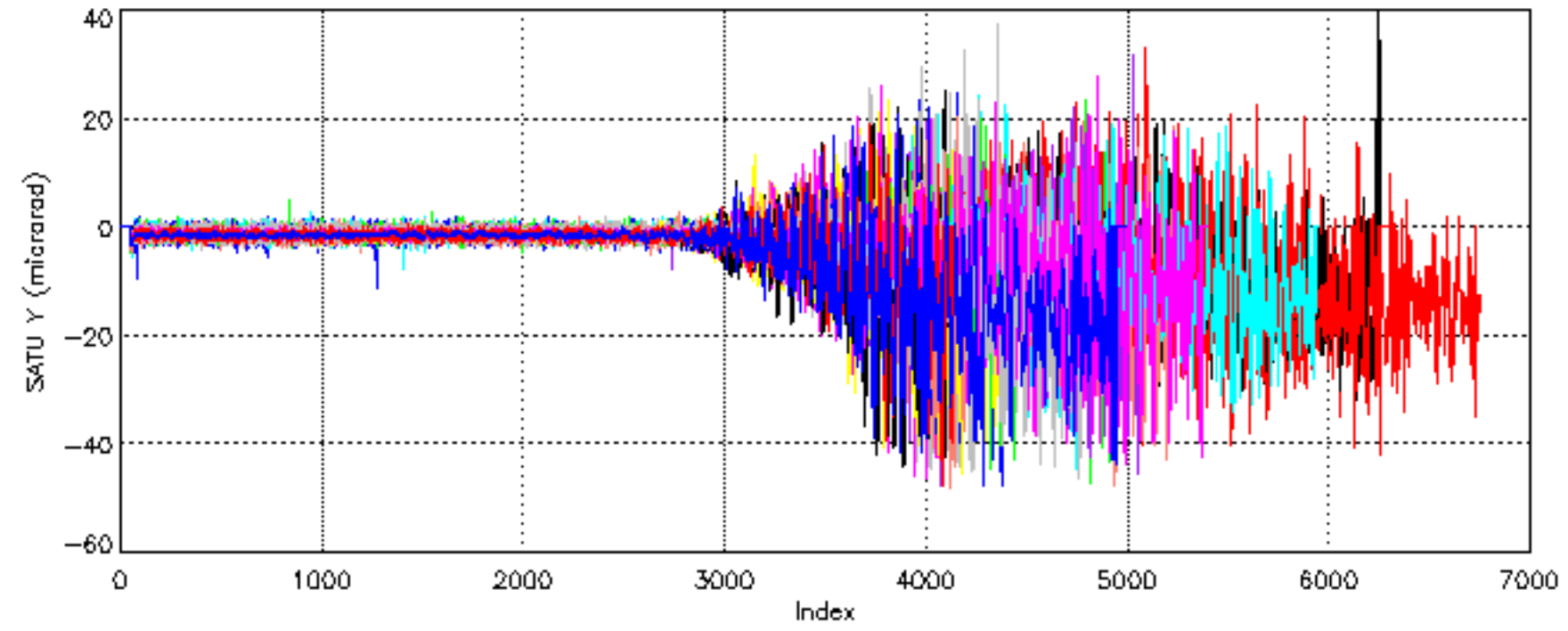
Tangent altitude at which the star is lost

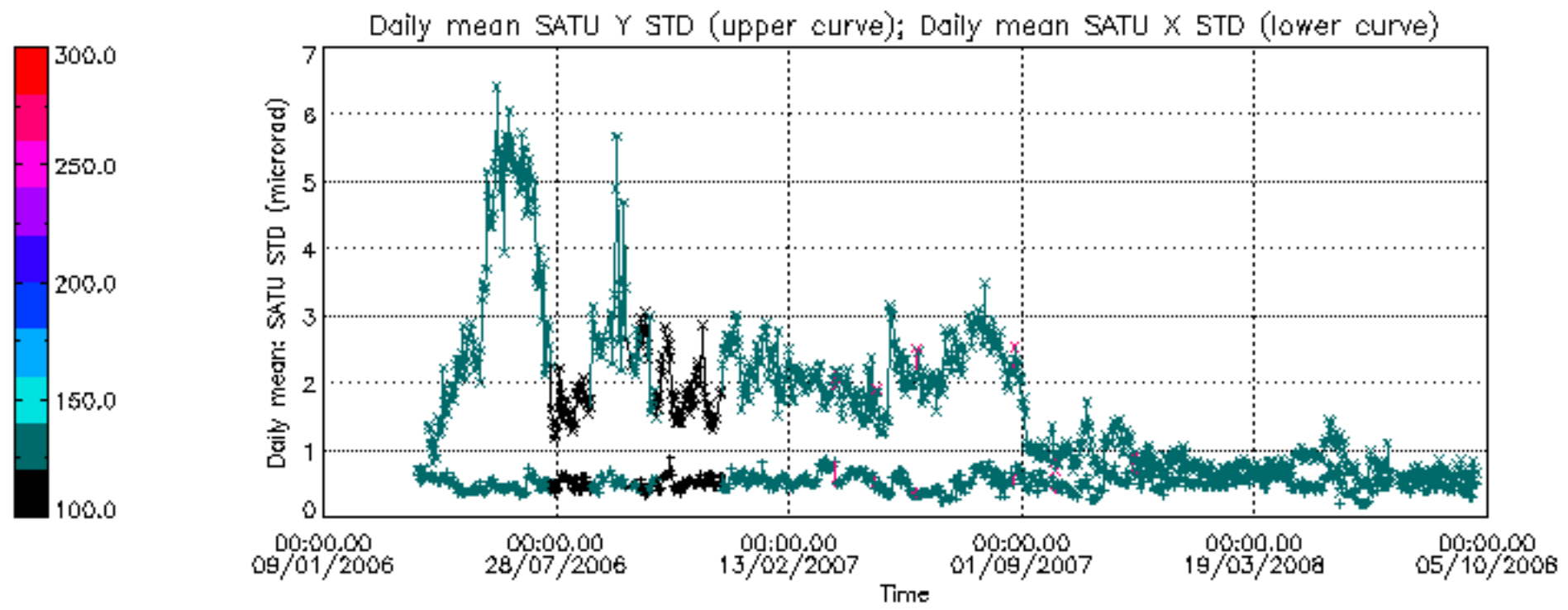


Tangent altitude at which the star is lost









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 2; -494.2; 01-SEP-2008 00:23:34; Dark ; 41.5; 23; 21Eps CMA ; 1.50; 26000;occ; 83; 0;34009
 3; -399.8; 01-SEP-2008 00:25:09; Dark ; 44.0; 117; Pi Pup ; 2.71; 3800;occ; 88; 0;34009
 4; -276.4; 01-SEP-2008 00:27:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34009
 5; -89.7; 01-SEP-2008 00:30:19; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0;34009
 6; 529.6; 01-SEP-2008 00:40:38; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;34010
 7; 606.7; 01-SEP-2008 00:41:55; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;34010
 8; 964.3; 01-SEP-2008 00:47:53; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;34010
 9; 1085.7; 01-SEP-2008 00:49:54; Dark ; 39.5; 31; Alp Gru ; 1.73; 15200;occ; 79; 0;34010
 10; 1330.7; 01-SEP-2008 00:53:59; Dark ; 47.5; 18; 24Alp PsA ; 1.17; 9700;occ; 95; 0;34010
 11; 1620.0; 01-SEP-2008 00:58:49; Dark ; 39.5; 142; 49Del Cap ; 2.85; 8900;occ; 79; 0;34010
 12; 1807.9; 01-SEP-2008 01:01:56; Bright; 52.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 105; 0;34010
 13; 1895.6; 01-SEP-2008 01:03:24; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;34010
 14; 2075.4; 01-SEP-2008 01:06:24; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;34010
 15; 2488.0; 01-SEP-2008 01:13:17; Bright; 35.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 70; 0;34010
 16; 2600.9; 01-SEP-2008 01:15:09; Bright; 36.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 72; 0;34010
 17; 2678.4; 01-SEP-2008 01:16:27; Bright; 34.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 68; 0;34010
 18; 2975.3; 01-SEP-2008 01:21:24; Bright; 33.5; 89; 5Alp Cep ; 2.45; 8000;occ; 67; 0;34010
 19; 3434.5; 01-SEP-2008 01:29:03; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;34010
 20; 4453.0; 01-SEP-2008 01:46:02; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;34010
 21; 4916.3; 01-SEP-2008 01:53:45; Dark ; 39.0; 8; 10Alp CMi ; 0.40; 6500;occ; 78; 0;34010

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1; -658.8; 01-SEP-2008 02:01:26; Dark ; 57.0; 1; 9Alp CMA ; -1.44; 11000;occ; 114; 0;34010
 2; -493.7; 01-SEP-2008 02:04:11; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;34010
 3; -399.4; 01-SEP-2008 02:05:45; Dark ; 42.5; 117; Pi Pup ; 2.71; 3800;occ; 85; 0;34010
 4; -276.1; 01-SEP-2008 02:07:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34010
 5; -89.2; 01-SEP-2008 02:10:55; Dark ; 43.5; 2; Alp Car ; -0.74; 7000;occ; 87; 0;34010
 6; 530.3; 01-SEP-2008 02:21:15; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;34011
 7; 607.6; 01-SEP-2008 02:22:32; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;34011
 8; 965.0; 01-SEP-2008 02:28:29; Dark ; 52.5; 84; Alp Phe ; 2.40; 4500;occ; 105; 0;34011
 9; 1085.9; 01-SEP-2008 02:30:30; Dark ; 38.5; 31; Alp Gru ; 1.73; 15200;occ; 77; 0;34011
 10; 1331.1; 01-SEP-2008 02:34:35; Dark ; 46.0; 18; 24Alp PsA ; 1.17; 9700;occ; 92; 0;34011
 11; 1620.3; 01-SEP-2008 02:39:25; Dark ; 38.5; 142; 49Del Cap ; 2.85; 8900;occ; 77; 0;34011
 12; 1808.2; 01-SEP-2008 02:42:33; Bright; 36.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 73; 0;34011
 13; 1895.4; 01-SEP-2008 02:44:00; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;34011
 14; 2075.4; 01-SEP-2008 02:47:00; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;34011
 15; 2488.0; 01-SEP-2008 02:53:52; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;34011
 16; 2601.0; 01-SEP-2008 02:55:45; Bright; 37.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 75; 0;34011
 17; 2678.5; 01-SEP-2008 02:57:03; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;34011
 18; 2975.2; 01-SEP-2008 03:02:00; Bright; 34.0; 89; 5Alp Cep ; 2.45; 8000;occ; 68; 0;34011
 19; 3434.6; 01-SEP-2008 03:09:39; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;34011

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 2; -1119.3; 01-SEP-2008 03:34:21; Dark ; 44.0; 8; 10Alp CMi ; 0.40; 6500;occ; 88; 0;34011
 3; -658.2; 01-SEP-2008 03:42:02; Dark ; 52.5; 1; 9Alp CMA ; -1.44; 11000;occ; 105; 0;34011
 4; -493.2; 01-SEP-2008 03:44:47; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;34011
 5; -399.0; 01-SEP-2008 03:46:21; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;34011
 6; -275.7; 01-SEP-2008 03:48:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34011
 7; -88.7; 01-SEP-2008 03:51:32; Dark ; 50.0; 2; Alp Car ; -0.74; 7000;occ; 100; 0;34011
 8; 531.0; 01-SEP-2008 04:01:51; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;34012
 9; 608.2; 01-SEP-2008 04:03:09; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;34012
 10; 965.7; 01-SEP-2008 04:09:06; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;34012
 11; 1086.3; 01-SEP-2008 04:11:07; Dark ; 36.5; 31; Alp Gru ; 1.73; 15200;occ; 73; 0;34012
 12; 1331.5; 01-SEP-2008 04:15:12; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;34012
 13; 1620.6; 01-SEP-2008 04:20:01; Dark ; 39.5; 142; 49Del Cap ; 2.85; 8900;occ; 79; 0;34012
 14; 1808.1; 01-SEP-2008 04:23:08; Bright; 36.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 73; 0;34012
 15; 1895.6; 01-SEP-2008 04:24:36; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;34012
 16; 2075.4; 01-SEP-2008 04:27:36; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;34012
 17; 2488.3; 01-SEP-2008 04:34:29; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;34012
 18; 2601.4; 01-SEP-2008 04:36:22; Bright; 36.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 72; 0;34012
 19; 2678.6; 01-SEP-2008 04:37:39; Bright; 37.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 74; 0;34012
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 2; -1118.9; 01-SEP-2008 05:14:57; Dark ; 38.5; 8; 10Alp CMi ; 0.40; 6500;occ; 77; 0;34012
 3; -657.5; 01-SEP-2008 05:22:39; Dark ; 49.5; 1; 9Alp CMA ; -1.44; 11000;occ; 99; 0;34012

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4; -492.5; 01-SEP-2008 05:25:24; Dark ; 45.0; 23; 21Eps CMa ; 1.50; 26000;occ; 90; 0;34012
5; -398.5; 01-SEP-2008 05:26:58; Dark ; 42.0; 117; Pi Pup ; 2.71; 3800;occ; 84; 0;34012
6; -275.3; 01-SEP-2008 05:29:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34012
7; -88.3; 01-SEP-2008 05:32:08; Dark ; 53.5; 2; Alp Car ; -0.74; 7000;occ; 107; 0;34012
8; 531.5; 01-SEP-2008 05:42:28; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;34013
9; 608.8; 01-SEP-2008 05:43:45; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;34013
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11; 1086.5; 01-SEP-2008 05:51:43; Dark ; 37.0; 31; Alp Gru ; 1.73; 15200;occ; 74; 0;34013
12; 1331.7; 01-SEP-2008 05:55:48; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;34013
13; 1620.7; 01-SEP-2008 06:00:37; Dark ; 42.5; 142; 49Del Cap ; 2.85; 8900;occ; 85; 0;34013
14; 1808.2; 01-SEP-2008 06:03:45; Bright; 36.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 73; 0;34013
15; 1895.6; 01-SEP-2008 06:05:12; Bright; 43.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 86; 0;34013
16; 2075.4; 01-SEP-2008 06:08:12; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;34013
17; 2488.4; 01-SEP-2008 06:15:05; Bright; 35.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 70; 0;34013
18; 2601.5; 01-SEP-2008 06:16:58; Bright; 34.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 69; 0;34013
19; 2678.7; 01-SEP-2008 06:18:15; Bright; 36.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 73; 0;34013
20; 2975.2; 01-SEP-2008 06:23:12; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;34013
21; 3434.7; 01-SEP-2008 06:30:51; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;34013
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3; 1334.1; 01-SEP-2008 21:01:14; Dark ; 42.0; 18; 24Alp PsA ; 1.17; 9700;occ; 84; 0;34022
4; 1621.6; 01-SEP-2008 21:06:01; Dark ; 50.0; 142; 49Del Cap ; 2.85; 8900;occ; 100; 0;34022
5; 1809.1; 01-SEP-2008 21:09:09; Bright; 52.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 104; 0;34022
6; 1895.4; 01-SEP-2008 21:10:35; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;34022
7; 2074.9; 01-SEP-2008 21:13:35; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;34022
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11; 2974.3; 01-SEP-2008 21:28:34; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;34022
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13; 4454.7; 01-SEP-2008 21:53:14; Bright; 39.0; 24; 66Alp Gem ; 1.58; 10200;occ; 78; 0;34022
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6; 536.9; 01-SEP-2008 22:28:32; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;34023
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11; 1621.8; 01-SEP-2008 22:46:37; Dark ; 38.5; 142; 49Del Cap ; 2.85; 8900;occ; 77; 0;34023
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13; 1895.4; 01-SEP-2008 22:51:11; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;34023
14; 2074.9; 01-SEP-2008 22:54:10; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;34023
15; 2488.8; 01-SEP-2008 23:01:04; Bright; 35.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 70; 0;34023
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 11; 635.1; 04-SEP-2008 07:30:32; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;34057
 12; 991.0; 04-SEP-2008 07:36:28; Dark ; 57.0; 84; Alp Phe ; 2.40; 4500;occ; 114; 0;34057
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 7; 3434.0; 04-SEP-2008 08:17:11; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;34057
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 12; 1343.6; 04-SEP-2008 09:22:56; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;34058
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 4; 2492.3; 04-SEP-2008 09:42:05; Bright; 35.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 71; 0;34058
 5; 2681.8; 04-SEP-2008 09:45:15; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;34058
 6; 2972.0; 04-SEP-2008 09:50:05; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;34058
 7; 3433.9; 04-SEP-2008 09:57:47; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;34058
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7; -257.8; 04-SEP-2008 10:36:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34058
8; -137.9; 04-SEP-2008 10:38:51; Dark ; 38.5; 161; Tau Pup ; 2.93; 4500;occ; 77; 0;34058
9; -66.4; 04-SEP-2008 10:40:02; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;34058
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13; 1097.4; 04-SEP-2008 10:59:26; Dark ; 42.5; 31; Alp Gru ; 1.73; 15200;occ; 85; 0;34059
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4; 2492.4; 04-SEP-2008 11:22:41; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;34059
5; 2681.9; 04-SEP-2008 11:25:50; Bright; 33.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 67; 0;34059
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22; 7302.4; 04-SEP-2008 14:23:27; Dark ; 38.0; 172; Gam Gru ; 3.00; 13100;occ; 76; 0;34060
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5; 2492.6; 04-SEP-2008 14:43:53; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;34061
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2; -466.8; 16-SEP-2008 22:40:33; Dark ; 67.0; 1; 9Alp CMA ; -1.44; 11000;occ; 134; 0;34237
3; -338.2; 16-SEP-2008 22:42:42; Dark ; 51.5; 23; 21Eps CMA ; 1.50; 26000;occ; 103; 0;34237
4; -113.7; 16-SEP-2008 22:46:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34237
5; 34.0; 16-SEP-2008 22:48:54; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;34238
6; 647.0; 16-SEP-2008 22:59:07; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;34238
7; 732.8; 16-SEP-2008 23:00:33; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;34238
8; 1074.9; 16-SEP-2008 23:06:15; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;34238
9; 1530.0; 16-SEP-2008 23:13:50; Dark ; 56.0; 52; 16Bet Cet ; 2.04; 4500;occ; 112; 0;34238
10; 2176.6; 16-SEP-2008 23:24:37; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;34238
11; 2407.5; 16-SEP-2008 23:28:27; Bright; 37.0; 93; 53Bet Peg ; 2.52; 3100;occ; 74; 0;34238
12; 2524.5; 16-SEP-2008 23:30:25; Bright; 47.0; 58; 21Alp And ; 2.07; 11000;occ; 94; 0;34238
13; 3019.4; 16-SEP-2008 23:38:39; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;34238
14; 3125.0; 16-SEP-2008 23:40:25; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;34238
15; 4484.3; 16-SEP-2008 00:03:04; Bright; 45.5; 24; 66Alp Gem ; 1.58; 10200;occ; 91; 0;34238
16; 5013.0; 17-SEP-2008 00:11:53; Dark ; 62.5; 8; 10Alp CMI ; 0.40; 6500;occ; 125; 0;34238
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2; -465.7; 17-SEP-2008 00:21:10; Dark ; 59.5; 1; 9Alp CMA ; -1.44; 11000;occ; 119; 0;34238
3; -337.2; 17-SEP-2008 00:23:19; Dark ; 49.5; 23; 21Eps CMA ; 1.50; 26000;occ; 99; 0;34238
4; -112.7; 17-SEP-2008 00:27:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34238
5; 34.6; 17-SEP-2008 00:29:30; Dark ; 55.5; 2; Alp Car ; -0.74; 7000;occ; 111; 0;34239
6; 647.4; 17-SEP-2008 00:39:43; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;34239
7; 733.3; 17-SEP-2008 00:41:09; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;34239
8; 1075.3; 17-SEP-2008 00:46:51; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;34239
9; 1530.1; 17-SEP-2008 00:54:26; Dark ; 58.5; 52; 16Bet Cet ; 2.04; 4500;occ; 117; 0;34239
10; 2176.5; 17-SEP-2008 01:05:12; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;34239
11; 2407.2; 17-SEP-2008 01:09:03; Bright; 41.0; 93; 53Bet Peg ; 2.52; 3100;occ; 82; 0;34239
12; 2523.8; 17-SEP-2008 01:11:00; Bright; 44.5; 58; 21Alp And ; 2.07; 11000;occ; 89; 0;34239
13; 3018.9; 17-SEP-2008 01:19:15; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;34239
14; 3124.4; 17-SEP-2008 01:21:00; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;34239
15; 4484.3; 17-SEP-2008 01:43:40; Bright; 45.0; 24; 66Alp Gem ; 1.58; 10200;occ; 90; 0;34239
16; 5013.6; 17-SEP-2008 01:52:30; Dark ; 54.5; 8; 10Alp CMI ; 0.40; 6500;occ; 109; 0;34239
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2; -464.5; 17-SEP-2008 02:01:47; Dark ; 64.5; 1; 9Alp CMA ; -1.44; 11000;occ; 129; 0;34239
3; -336.5; 17-SEP-2008 02:03:55; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;34239
4; -111.8; 17-SEP-2008 02:07:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34239
5; 35.2; 17-SEP-2008 02:10:07; Dark ; 47.0; 2; Alp Car ; -0.74; 7000;occ; 94; 0;34240
6; 647.9; 17-SEP-2008 02:20:20; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;34240
7; 733.8; 17-SEP-2008 02:21:46; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;34240
8; 1075.7; 17-SEP-2008 02:27:27; Dark ; 41.5; 84; Alp Phe ; 2.40; 4500;occ; 83; 0;34240
9; 1530.4; 17-SEP-2008 02:35:02; Dark ; 58.5; 52; 16Bet Cet ; 2.04; 4500;occ; 117; 0;34240
10; 2176.3; 17-SEP-2008 02:45:48; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;34240
11; 2407.0; 17-SEP-2008 02:49:39; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;34240
12; 2523.3; 17-SEP-2008 02:51:35; Bright; 46.5; 58; 21Alp And ; 2.07; 11000;occ; 93; 0;34240
13; 3018.6; 17-SEP-2008 02:59:50; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;34240
14; 3124.0; 17-SEP-2008 03:01:36; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;34240
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3; -576.8; 17-SEP-2008 03:40:31; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;34240
4; -463.4; 17-SEP-2008 03:42:24; Dark ; 65.5; 1; 9Alp CMA ; -1.44; 11000;occ; 131; 0;34240
5; -335.5; 17-SEP-2008 03:44:32; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;34240
6; -110.8; 17-SEP-2008 03:48:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34240
7; 36.0; 17-SEP-2008 03:50:44; Dark ; 56.0; 2; Alp Car ; -0.74; 7000;occ; 112; 0;34241
8; 648.6; 17-SEP-2008 04:00:56; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;34241
9; 734.4; 17-SEP-2008 04:02:22; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;34241
10; 1076.3; 17-SEP-2008 04:08:04; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;34241
11; 1530.7; 17-SEP-2008 04:15:38; Dark ; 57.0; 52; 16Bet Cet ; 2.04; 4500;occ; 114; 0;34241
12; 2176.3; 17-SEP-2008 04:26:24; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;34241
13; 2406.9; 17-SEP-2008 04:30:15; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;34241
14; 2522.7; 17-SEP-2008 04:32:10; Bright; 45.5; 58; 21Alp And ; 2.07; 11000;occ; 91; 0;34241
15; 3018.2; 17-SEP-2008 04:40:26; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34241
16; 3123.6; 17-SEP-2008 04:42:11; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;34241

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 3; -576.3; 17-SEP-2008 05:21:08; Dark ; 41.0; 132; 15Rho Pup ; 2.80; 6900;occ; 82; 0;34241
 4; -462.2; 17-SEP-2008 05:23:02; Dark ; 67.0; 1; 9Alp CMA ; -1.44; 11000;occ; 134; 0;34241
 5; -334.6; 17-SEP-2008 05:25:09; Dark ; 45.5; 23; 21Eps CMA ; 1.50; 26000;occ; 91; 0;34241
 6; -109.9; 17-SEP-2008 05:28:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34241
 7; 36.6; 17-SEP-2008 05:31:20; Dark ; 42.5; 2; Alp Car ; -0.74; 7000;occ; 85; 0;34242
 8; 649.1; 17-SEP-2008 05:41:33; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;34242
 9; 734.9; 17-SEP-2008 05:42:59; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;34242
 10; 1076.7; 17-SEP-2008 05:48:40; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;34242
 11; 1530.8; 17-SEP-2008 05:56:15; Dark ; 54.5; 52; 16Bet Cet ; 2.04; 4500;occ; 109; 0;34242
 12; 2176.2; 17-SEP-2008 06:07:00; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;34242
 13; 2406.7; 17-SEP-2008 06:10:50; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;34242
 14; 2522.1; 17-SEP-2008 06:12:46; Bright; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;34242
 15; 3017.8; 17-SEP-2008 06:21:02; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;34242
 16; 3122.9; 17-SEP-2008 06:22:47; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;34242

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 2; 1531.9; 17-SEP-2008 21:01:39; Dark ; 57.0; 52; 16Bet Cet ; 2.04; 4500;occ; 114; 0;34251
 3; 2174.9; 17-SEP-2008 21:12:22; Bright; 37.5; 90; 54Alp Peg ; 2.49; 11000;occ; 75; 0;34251
 4; 2404.7; 17-SEP-2008 21:16:12; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;34251
 5; 2516.2; 17-SEP-2008 21:18:04; Bright; 46.0; 58; 21Alp And ; 2.07; 11000;occ; 92; 0;34251
 6; 3013.9; 17-SEP-2008 21:26:21; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;34251
 7; 3118.1; 17-SEP-2008 21:28:05; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;34251
 8; 4486.1; 17-SEP-2008 21:50:53; Bright; 45.5; 24; 66Alp Gem ; 1.58; 10200;occ; 91; 0;34251
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 2; -324.9; 17-SEP-2008 23:51:54; Dark ; 48.0; 23; 21Eps CMA ; 1.50; 26000;occ; 96; 0;34252
 3; -99.2; 17-SEP-2008 23:55:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34252
 4; 43.5; 17-SEP-2008 23:58:03; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;34253
 5; 654.0; 18-SEP-2008 00:08:13; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;34253
 6; 740.2; 18-SEP-2008 00:09:39; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;34253
 7; 1080.9; 18-SEP-2008 00:15:20; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;34253
 8; 1532.2; 18-SEP-2008 00:22:51; Dark ; 56.0; 52; 16Bet Cet ; 2.04; 4500;occ; 112; 0;34253
 9; 2174.4; 18-SEP-2008 00:33:33; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;34253
 10; 2404.1; 18-SEP-2008 00:37:23; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;34253
 11; 2515.0; 18-SEP-2008 00:39:14; Bright; 45.0; 58; 21Alp And ; 2.07; 11000;occ; 90; 0;34253
 12; 3012.9; 18-SEP-2008 00:47:32; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;34253
 13; 3116.8; 18-SEP-2008 00:49:16; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;34253
 14; 4486.3; 18-SEP-2008 01:12:05; Bright; 46.5; 24; 66Alp Gem ; 1.58; 10200;occ; 93; 0;34253
 15; 5021.8; 18-SEP-2008 01:21:01; Dark ; 62.5; 8; 10Alp CMI ; 0.40; 6500;occ; 125; 0;34253

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 2; 736.8; 17-SEP-2008 12:25:24; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;34246
 3; 1078.3; 17-SEP-2008 12:31:06; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;34246
 4; 1531.4; 17-SEP-2008 12:38:39; Dark ; 56.5; 52; 16Bet Cet ; 2.04; 4500;occ; 113; 0;34246

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 2; 2175.1; 17-SEP-2008 16:10:34; Bright; 28.5; 90; 54Alp Peg ; 2.49; 11000;occ; 57; 0;34248

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 2; -324.0; 18-SEP-2008 01:32:31; Dark ; 50.5; 23; 21Eps CMA ; 1.50; 26000;occ; 101; 0;34253
 3; -98.3; 18-SEP-2008 01:36:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34253
 4; 44.1; 18-SEP-2008 01:38:39; Dark ; 45.5; 2; Alp Car ; -0.74; 7000;occ; 91; 0;34254
 5; 654.5; 18-SEP-2008 01:48:49; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;34254
 6; 740.7; 18-SEP-2008 01:50:16; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;34254
 7; 1081.3; 18-SEP-2008 01:55:56; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;34254
 8; 1532.4; 18-SEP-2008 02:03:27; Dark ; 53.0; 52; 16Bet Cet ; 2.04; 4500;occ; 106; 0;34254
 9; 2174.3; 18-SEP-2008 02:14:09; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;34254
 10; 2403.8; 18-SEP-2008 02:17:59; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;34254
 11; 2514.6; 18-SEP-2008 02:19:49; Bright; 45.0; 58; 21Alp And ; 2.07; 11000;occ; 90; 0;34254
 12; 3012.5; 18-SEP-2008 02:28:07; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;34254
 13; 3116.3; 18-SEP-2008 02:29:51; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;34254

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3; -569.5; 18-SEP-2008 03:09:01; Dark ; 41.0; 132; 15Rho Pup ; 2.80; 6900;occ; 82; 0;34254
4; -447.3; 18-SEP-2008 03:11:04; Dark ; 60.5; 1; 9Alp CMA ; -1.44; 11000;occ; 121; 0;34254
5; -323.0; 18-SEP-2008 03:13:08; Dark ; 52.0; 23; 21Eps CMA ; 1.50; 26000;occ; 104; 0;34254
6; -97.3; 18-SEP-2008 03:16:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34254
7; 44.9; 18-SEP-2008 03:19:16; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;34255
8; 655.2; 18-SEP-2008 03:29:26; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;34255
9; 741.3; 18-SEP-2008 03:30:52; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;34255
10; 1081.7; 18-SEP-2008 03:36:33; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;34255
11; 1532.7; 18-SEP-2008 03:44:04; Dark ; 58.5; 52; 16Bet Cet ; 2.04; 4500;occ; 117; 0;34255
12; 2174.4; 18-SEP-2008 03:54:45; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;34255
13; 2403.8; 18-SEP-2008 03:58:35; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;34255
14; 2514.0; 18-SEP-2008 04:00:25; Bright; 45.0; 58; 21Alp And ; 2.07; 11000;occ; 90; 0;34255
15; 3012.3; 18-SEP-2008 04:08:43; Bright; 37.0; 74; 11Bet Cas ; 2.27; 6600;occ; 74; 0;34255
16; 3116.0; 18-SEP-2008 04:10:27; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34255
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2;-1012.9; 18-SEP-2008 04:42:14; Dark ; 47.0; 8; 10Alp CMI ; 0.40; 6500;occ; 94; 0;34255
3; -569.1; 18-SEP-2008 04:49:38; Dark ; 42.0; 132; 15Rho Pup ; 2.80; 6900;occ; 84; 0;34255
4; -446.1; 18-SEP-2008 04:51:41; Dark ; 63.0; 1; 9Alp CMA ; -1.44; 11000;occ; 126; 0;34255
5; -322.1; 18-SEP-2008 04:53:45; Dark ; 49.0; 23; 21Eps CMA ; 1.50; 26000;occ; 98; 0;34255
6; -96.3; 18-SEP-2008 04:57:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34255
7; 45.5; 18-SEP-2008 04:59:52; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;34256
8; 655.6; 18-SEP-2008 05:10:03; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;34256
9; 741.8; 18-SEP-2008 05:11:29; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;34256
10; 1082.1; 18-SEP-2008 05:17:09; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;34256
11; 1532.8; 18-SEP-2008 05:24:40; Dark ; 59.0; 52; 16Bet Cet ; 2.04; 4500;occ; 118; 0;34256
12; 2174.2; 18-SEP-2008 05:35:21; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;34256
13; 2403.5; 18-SEP-2008 05:39:10; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;34256
14; 2513.3; 18-SEP-2008 05:41:00; Bright; 46.5; 58; 21Alp And ; 2.07; 11000;occ; 93; 0;34256
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 7; 63.8; 20-SEP-2008 03:56:57; Dark ; 52.0; 2; Alp Car ; -0.74; 7000;occ; 104; 0;34284
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13; 2497.2; 20-SEP-2008 04:37:30; Bright; 44.5; 58; 21Alp And ; 2.07; 11000;occ; 89; 0;34284
14; 3000.5; 20-SEP-2008 04:45:54; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;34284
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 7; 3095.5; 20-SEP-2008 21:33:28; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;34294
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6; 2991.3; 21-SEP-2008 21:00:07; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;34308
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8; 787.3; 25-SEP-2008 04:52:08; Dark ; 41.5; 9; Alp Eri ; 0.45; 24000;occ; 83; 0;34356
9; 1117.4; 25-SEP-2008 04:57:38; Dark ; 41.5; 84; Alp Phe ; 2.40; 4500;occ; 83; 0;34356
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5; -221.2; 25-SEP-2008 06:15:55; Dark ; 54.0; 23; 21Eps CMA ; 1.50; 26000;occ; 108; 0;34356
6; -97.4; 25-SEP-2008 06:17:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34356
7; 30.5; 25-SEP-2008 06:20:07; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;34357
8; 787.8; 25-SEP-2008 06:32:44; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;34357
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 3; 2166.4; 25-SEP-2008 20:20:30; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;34365
 4; 2388.5; 25-SEP-2008 20:24:12; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;34365
 5; 2971.7; 25-SEP-2008 20:33:56; Bright; 57.0; 74; 11Bet Cas ; 2.27; 6600;occ; 114; 0;34365
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4; 3058.1; 26-SEP-2008 10:00:09; Bright; 56.5; 76; 27Gam Cas ; 2.30; 30000;occ; 113; 0;34373
5; 4585.7; 26-SEP-2008 10:25:37; Bright; 53.0; 17; 78Bet Gem ; 1.16; 4500;occ; 106; 0;34373
6; 5106.2; 26-SEP-2008 10:34:17; Dark ; 28.0; 8; 10Alp CMi ; 0.40; 6500;occ; 56; 0;34373
7; 5539.7; 26-SEP-2008 10:41:31; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;34373
8; 5741.9; 26-SEP-2008 10:44:53; Dark ; 47.5; 88; 31Eta CMA ; 2.45; 20000;occ; 95; 0;34373
9; 5833.8; 26-SEP-2008 10:46:25; Dark ; 52.5; 23; 21Eps CMA ; 1.50; 26000;occ; 105; 0;34373
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11; 6078.1; 26-SEP-2008 10:50:29; Dark ; 48.5; 161; Tau Pup ; 2.93; 4500;occ; 97; 0;34373
12; 6903.8; 26-SEP-2008 11:04:15; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;34373
13; 7159.1; 26-SEP-2008 11:08:30; Dark ; 39.5; 84; Alp Phe ; 2.40; 4500;occ; 79; 0;34373
14; 7585.1; 26-SEP-2008 11:15:36; Dark ; 50.0; 52; 16Bet Cet ; 2.04; 4500;occ; 100; 0;34373
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2; 2388.0; 26-SEP-2008 11:29:35; Bright; 37.0; 93; 53Bet Peg ; 2.52; 3100;occ; 74; 0;34374
3; 2968.8; 26-SEP-2008 11:39:16; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;34374
4; 3057.6; 26-SEP-2008 11:40:45; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;34374

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

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7; 3429.1; 27-SEP-2008 21:18:55; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;34394
8; 3900.5; 27-SEP-2008 21:26:46; Bright; 34.5; 36; 50Alp UMa ; 1.80; 6300;occ; 69; 0;34394
9; 3990.0; 27-SEP-2008 21:28:16; Bright; 33.5; 82; 48Bet UMa ; 2.37; 10600;occ; 67; 0;34394
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4; 1586.4; 27-SEP-2008 07:23:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
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4; 2053.1; 27-SEP-2008 07:31:11; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
5; 2361.5; 27-SEP-2008 07:36:20; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
6; 2630.7; 27-SEP-2008 07:40:49; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
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9; 3278.0; 27-SEP-2008 07:51:36; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
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7; 2870.4; 27-SEP-2008 09:25:25; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
8; 3107.3; 27-SEP-2008 09:29:22; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
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12; 4012.0; 27-SEP-2008 09:44:26; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
13; 4278.7; 27-SEP-2008 09:48:53; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
14; 4732.6; 27-SEP-2008 09:56:27; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
15; 5000.2; 27-SEP-2008 10:00:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
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17; 5500.5; 27-SEP-2008 10:09:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
18; 5813.8; 27-SEP-2008 10:14:28; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;34387
19; 6784.3; 27-SEP-2008 10:30:39; Dark ; 105.0; 9; Alp Eri ; 0.45; 24000;occ; 210; 0;34387
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3; 2909.5; 27-SEP-2008 11:06:40; Bright; 98.5; 68; 18Alp Cas ; 2.22; 4500;occ; 197; 0;34388
4; 3377.4; 27-SEP-2008 11:14:28; Bright; 88.5; 49; 1Alp UMi ; 1.99; 6300;occ; 177; 0;34388
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7; 5092.7; 27-SEP-2008 11:43:03; Dark ; 99.0; 48; 30Alp Hya ; 1.98; 4100;occ; 198; 0;34388
8; 5492.8; 27-SEP-2008 11:49:43; Dark ; 100.0; 132; 15Rho Pup ; 2.80; 6900;occ; 200; 0;34388
9; 5674.5; 27-SEP-2008 11:52:45; Dark ; 97.5; 65; Lam Vel ; 2.20; 4400;occ; 195; 0;34388

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13; 7110.4; 27-SEP-2008 12:16:41; Dark ; 96.0; 84; Alp Phe ; 2.40; 4500;occ; 192; 0;34388
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 4; 3377.4; 27-SEP-2008 12:55:03; Bright; 88.0; 49; 1Alp UMi ; 1.99; 6300;occ; 176; 0;34389
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 6; 4527.4; 27-SEP-2008 13:14:13; Bright; 85.0; 166; 17Eps Leo ; 2.98; 6000;occ; 170; 0;34389
 7; 5092.9; 27-SEP-2008 13:23:39; Dark ; 101.0; 48; 30Alp Hya ; 1.98; 4100;occ; 202; 0;34389
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13; 5898.1; 30-SEP-2008 20:25:13; Dark ; 40.0; 34; Gam2Vel ; 1.79; 23000;occ; 80; 0;34436
14; 5995.4; 30-SEP-2008 20:26:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34436
15; 6123.8; 30-SEP-2008 20:28:59; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;34436
16; 6208.1; 30-SEP-2008 20:30:23; Dark ; 57.5; 2; Alp Car ; -0.74; 7000;occ; 115; 0;34436
17; 6768.6; 30-SEP-2008 20:39:44; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;34436
18; 6856.3; 30-SEP-2008 20:41:11; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;34436

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