

GOMOS Daily Report 26-SEP-2008

Level 0 and Level 1 products

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

Item	Value
Time of report generation	28SEP2008 05:34:29
Data source version	GOMOS/5.00
Start time of products	26SEP2008 00:22:00
Stop time of products	26SEP2008 06:38:58
Store outputs in DB	Yes
Nb of level 1b prods	48
Nb of prods with errors	1

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

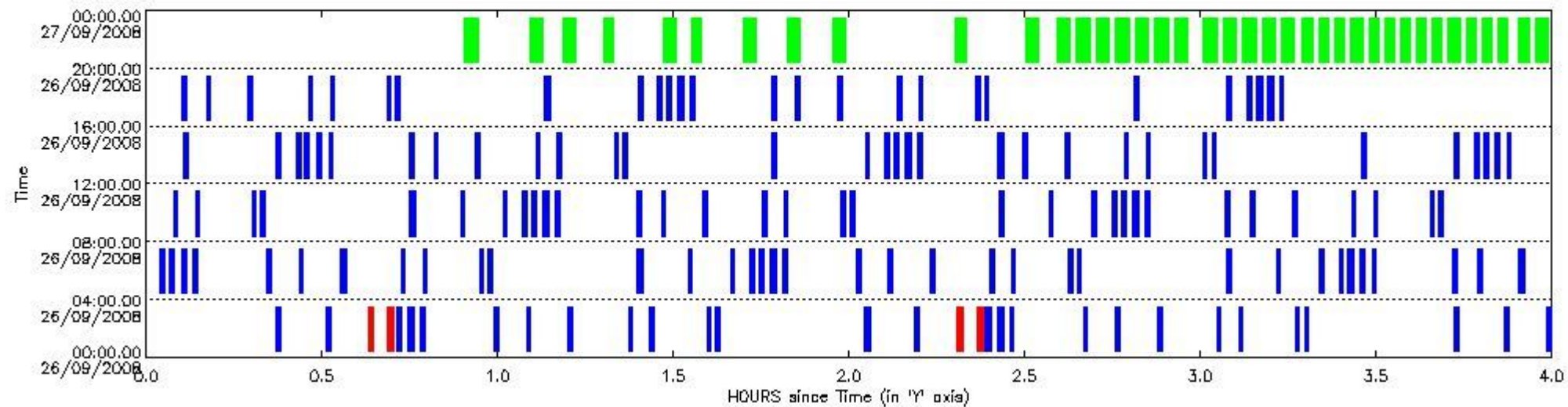
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

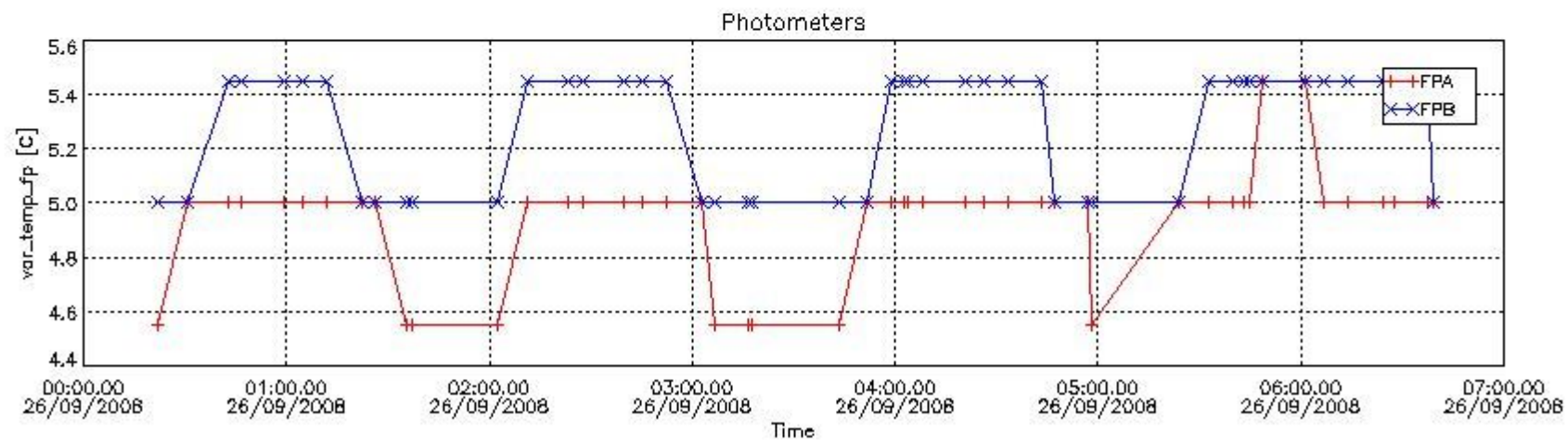
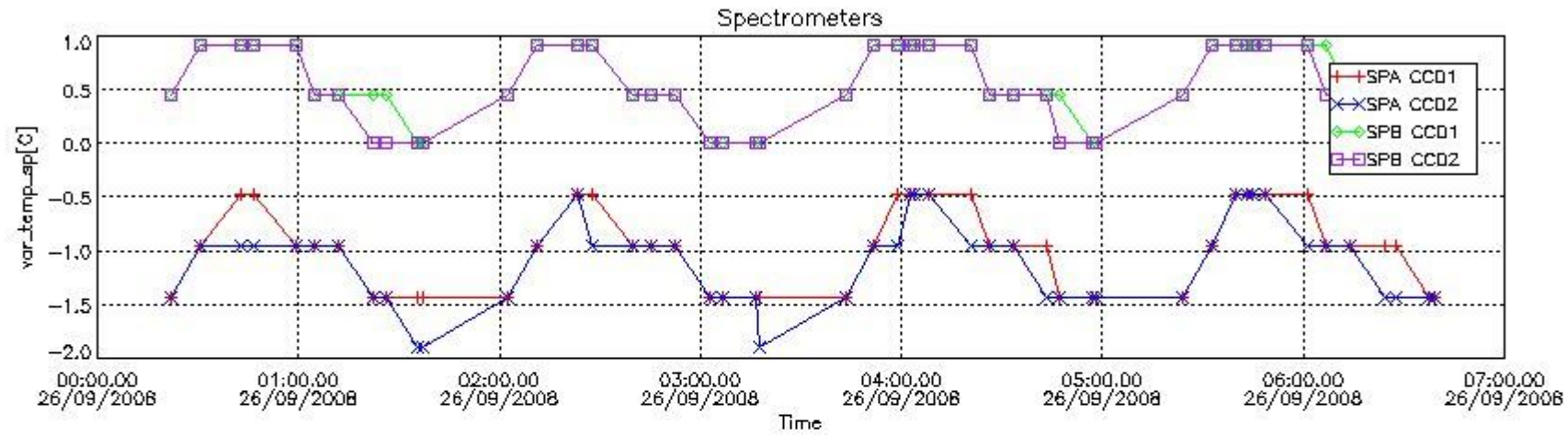
UTC start time	Star name	Star ID	Orbit
26-SEP-2008 00:37:51	15RhoPup	132	34367
26-SEP-2008 00:41:12	31EtaCMa	88	34367
26-SEP-2008 02:18:28	15RhoPup	132	34368
26-SEP-2008 02:21:49	31EtaCMa	88	34368

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_1PNPDE20080926_002200_000000532072_00245_34367_7513.N1	26-SEP-2008 00:22:00	Bright	52.500	17	78Bet Gem	1.1610	4500.0	105	34367	No
2	GOM_TRA_1PNPDE20080926_003037_000000542072_00245_34367_7514.N1	26-SEP-2008 00:30:37	Dark	53.500	8	10Alp CMi	0.40000	6500.0	107	34367	No
3	GOM_TRA_1PNPDE20080926_004243_000000512072_00245_34367_7651.N1	26-SEP-2008 00:42:43	Dark	50.500	23	21Eps CMa	1.5020	26000.	101	34367	No
4	GOM_TRA_1PNPDE20080926_004649_000000422072_00246_34368_7652.N1	26-SEP-2008 00:46:49	Dark	41.500	161	Tau Pup	2.9310	4500.0	83	34368	No
5	GOM_TRA_1PNPDE20080926_005924_000000482072_00246_34368_7653.N1	26-SEP-2008 00:59:24	Dark	47.500	9	Alp Eri	0.45300	24000.	95	34368	No
6	GOM_TRA_1PNPDE20080926_010453_000000422072_00246_34368_7654.N1	26-SEP-2008 01:04:53	Straylight	41.500	84	Alp Phe	2.3970	4500.0	83	34368	No
7	GOM_TRA_1PNPDE20080926_011200_000000522072_00246_34368_7655.N1	26-SEP-2008 01:12:00	Twi_and_stray	51.500	52	16Bet Cet	2.0370	4500.0	103	34368	No

8	GOM_TRA_1PNPDE20080926_012218_000000362072_00246_34368_7656.N1	26-SEP-2008 01:22:18	Bright	36.000	90	54Alp Peg	2.4870	11000.	72	34368	No
9	GOM_TRA_1PNPDE20080926_012600_000000392072_00246_34368_7657.N1	26-SEP-2008 01:26:00	Bright	39.000	93	53Bet Peg	2.5200	3100.0	78	34368	No
10	GOM_TRA_1PNPDE20080926_013542_000000392072_00246_34368_7658.N1	26-SEP-2008 01:35:42	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	34368	No
11	GOM_TRA_1PNPDE20080926_013712_000000402072_00246_34368_7659.N1	26-SEP-2008 01:37:12	Bright	39.500	76	27Gam Cas	2.3000	30000.	79	34368	No
12	GOM_TRA_1PNPDE20080926_020236_000000712072_00246_34368_7660.N1	26-SEP-2008 02:02:36	Bright	71.000	17	78Bet Gem	1.1610	4500.0	142	34368	No
13	GOM_TRA_1PNPDE20080926_021113_000000452072_00246_34368_7804.N1	26-SEP-2008 02:11:13	Dark	45.000	8	10Alp CMi	0.40000	6500.0	90	34368	Yes
14	GOM_TRA_1PNPDE20080926_022320_000000562072_00246_34368_7805.N1	26-SEP-2008 02:23:20	Dark	55.500	23	21Eps CMa	1.5020	26000.	111	34368	No
15	GOM_TRA_1PNPDE20080926_022726_000000422072_00247_34369_7806.N1	26-SEP-2008 02:27:26	Dark	42.000	161	Tau Pup	2.9310	4500.0	84	34369	No
16	GOM_TRA_1PNPDE20080926_024000_000000432072_00247_34369_7807.N1	26-SEP-2008 02:40:00	Dark	43.000	9	Alp Eri	0.45300	24000.	86	34369	No
17	GOM_TRA_1PNPDE20080926_024529_000000432072_00247_34369_7808.N1	26-SEP-2008 02:45:29	Straylight	43.000	84	Alp Phe	2.3970	4500.0	86	34369	No
18	GOM_TRA_1PNPDE20080926_025236_000000502072_00247_34369_7809.N1	26-SEP-2008 02:52:36	Tw_i_and_stray	50.000	52	16Bet Cet	2.0370	4500.0	100	34369	No
19	GOM_TRA_1PNPDE20080926_030254_000000372072_00247_34369_7810.N1	26-SEP-2008 03:02:54	Bright	37.000	90	54Alp Peg	2.4870	11000.	74	34369	No
20	GOM_TRA_1PNPDE20080926_030636_000000392072_00247_34369_7811.N1	26-SEP-2008 03:06:36	Bright	38.500	93	53Bet Peg	2.5200	3100.0	77	34369	No
21	GOM_TRA_1PNPDE20080926_031618_000000382072_00247_34369_7812.N1	26-SEP-2008 03:16:18	Bright	37.500	74	11Bet Cas	2.2680	6600.0	75	34369	No
22	GOM_TRA_1PNPDE20080926_031747_000000372072_00247_34369_7813.N1	26-SEP-2008 03:17:47	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	34369	No
23	GOM_TRA_1PNPDE20080926_034312_000000522072_00247_34369_7917.N1	26-SEP-2008 03:43:12	Bright	51.500	17	78Bet Gem	1.1610	4500.0	103	34369	No
24	GOM_TRA_1PNPDE20080926_035150_000000452072_00247_34369_7918.N1	26-SEP-2008 03:51:50	Dark	45.000	8	10Alp CMi	0.40000	6500.0	90	34369	No
25	GOM_TRA_1PNPDE20080926_035904_000000442072_00247_34369_7919.N1	26-SEP-2008 03:59:04	Dark	44.000	132	15Rho Pup	2.8030	6900.0	88	34369	No
26	GOM_TRA_1PNPDE20080926_040226_000000462072_00247_34369_7920.N1	26-SEP-2008 04:02:26	Dark	45.500	88	31Eta CMa	2.4480	20000.	91	34369	No
27	GOM_TRA_1PNPDE20080926_040357_000000502072_00247_34369_7921.N1	26-SEP-2008 04:03:57	Dark	50.000	23	21Eps CMa	1.5020	26000.	100	34369	No
28	GOM_TRA_1PNPDE20080926_040803_000000412072_00248_34370_7922.N1	26-SEP-2008 04:08:03	Dark	41.000	161	Tau Pup	2.9310	4500.0	82	34370	No
29	GOM_TRA_1PNPDE20080926_042037_000000402072_00248_34370_7923.N1	26-SEP-2008 04:20:37	Dark	39.500	9	Alp Eri	0.45300	24000.	79	34370	No
30	GOM_TRA_1PNPDE20080926_042605_000000402072_00248_34370_7924.N1	26-SEP-2008 04:26:05	Straylight	39.500	84	Alp Phe	2.3970	4500.0	79	34370	No
31	GOM_TRA_1PNPDE20080926_043312_000000512072_00248_34370_7925.N1	26-SEP-2008 04:33:12	Tw_i_and_stray	51.000	52	16Bet Cet	2.0370	4500.0	102	34370	No
32	GOM_TRA_1PNPDE20080926_044330_000000362072_00248_34370_7926.N1	26-SEP-2008 04:43:30	Bright	36.000	90	54Alp Peg	2.4870	11000.	72	34370	No
33	GOM_TRA_1PNPDE20080926_044712_000000382072_00248_34370_7927.N1	26-SEP-2008 04:47:12	Bright	38.000	93	53Bet Peg	2.5200	3100.0	76	34370	No
34	GOM_TRA_1PNPDE20080926_045654_000000402072_00248_34370_7928.N1	26-SEP-2008 04:56:54	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	34370	No
35	GOM_TRA_1PNPDE20080926_045823_000000402072_00248_34370_7929.N1	26-SEP-2008 04:58:23	Bright	39.500	76	27Gam Cas	2.3000	30000.	79	34370	No
36	GOM_TRA_1PNPDE20080926_052348_000000662072_00248_34370_8078.N1	26-SEP-2008 05:23:48	Bright	65.500	17	78Bet Gem	1.1610	4500.0	131	34370	No
37	GOM_TRA_1PNPDE20080926_053227_000000362072_00248_34370_8079.N1	26-SEP-2008 05:32:27	Dark	36.000	8	10Alp CMi	0.40000	6500.0	72	34370	No
38	GOM_TRA_1PNPDE20080926_053941_000000452072_00248_34370_8080.N1	26-SEP-2008 05:39:41	Dark	44.500	132	15Rho Pup	2.8030	6900.0	89	34370	No
39	GOM_TRA_1PNPDE20080926_054302_000000472072_00248_34370_8081.N1	26-SEP-2008 05:43:02	Dark	47.000	88	31Eta CMa	2.4480	20000.	94	34370	No
40	GOM_TRA_1PNPDE20080926_054434_000000512072_00248_34370_8082.N1	26-SEP-2008 05:44:34	Dark	50.500	23	21Eps CMa	1.5020	26000.	101	34370	No
41	GOM_TRA_1PNPDE20080926_054840_000000412072_00249_34371_8083.N1	26-SEP-2008 05:48:40	Dark	40.500	161	Tau Pup	2.9310	4500.0	81	34371	No
42	GOM_TRA_1PNPDE20080926_060115_000000472072_00249_34371_8084.N1	26-SEP-2008 06:01:15	Dark	47.000	9	Alp Eri	0.45300	24000.	94	34371	No
43	GOM_TRA_1PNPDE20080926_060642_000000442072_00249_34371_8085.N1	26-SEP-2008 06:06:42	Straylight	43.500	84	Alp Phe	2.3970	4500.0	87	34371	No
44	GOM_TRA_1PNPDE20080926_061348_000000522072_00249_34371_8086.N1	26-SEP-2008 06:13:48	Tw_i_and_stray	51.500	52	16Bet Cet	2.0370	4500.0	103	34371	No
45	GOM_TRA_1PNPDE20080926_062406_000000362072_00249_34371_8087.N1	26-SEP-2008 06:24:06	Bright	35.500	90	54Alp Peg	2.4870	11000.	71	34371	No
46	GOM_TRA_1PNPDE20080926_062748_000000392072_00249_34371_8088.N1	26-SEP-2008 06:27:48	Bright	38.500	93	53Bet Peg	2.5200	3100.0	77	34371	No
47	GOM_TRA_1PNPDE20080926_063729_000000392072_00249_34371_8089.N1	26-SEP-2008 06:37:29	Bright	38.500	74	11Bet Cas	2.2680	6600.0	77	34371	No
48	GOM_TRA_1PNPDE20080926_063858_000000412072_00249_34371_8090.N1	26-SEP-2008 06:38:58	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	34371	No

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



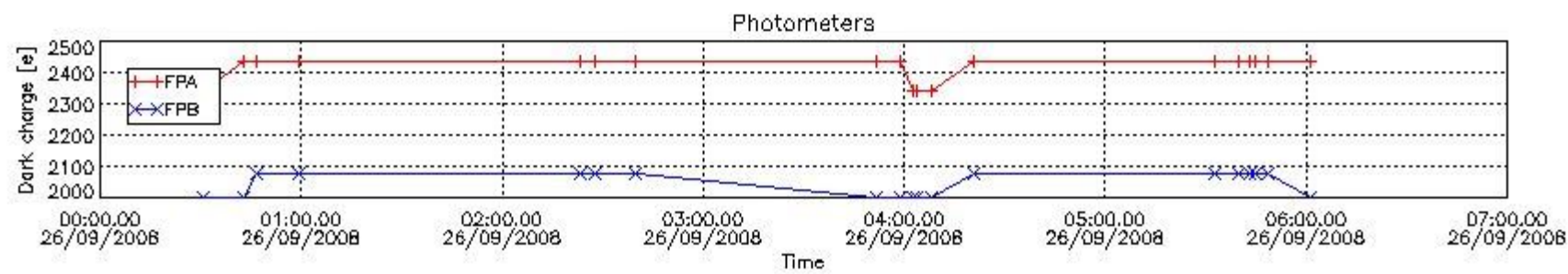
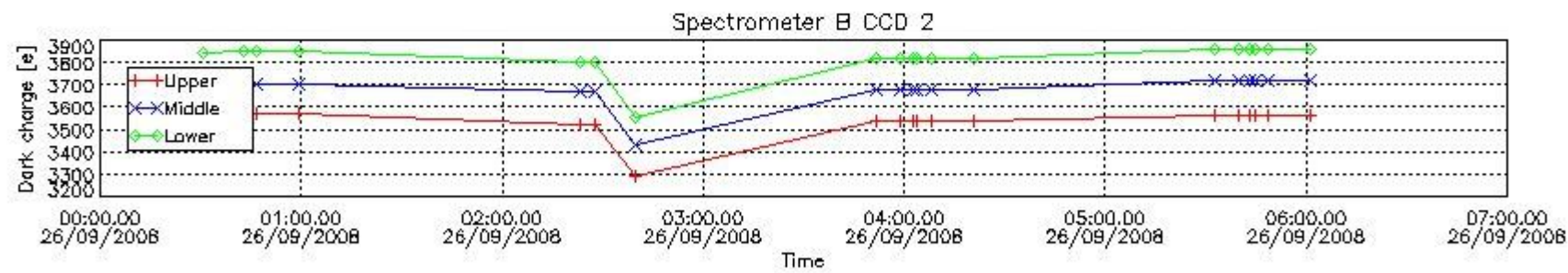
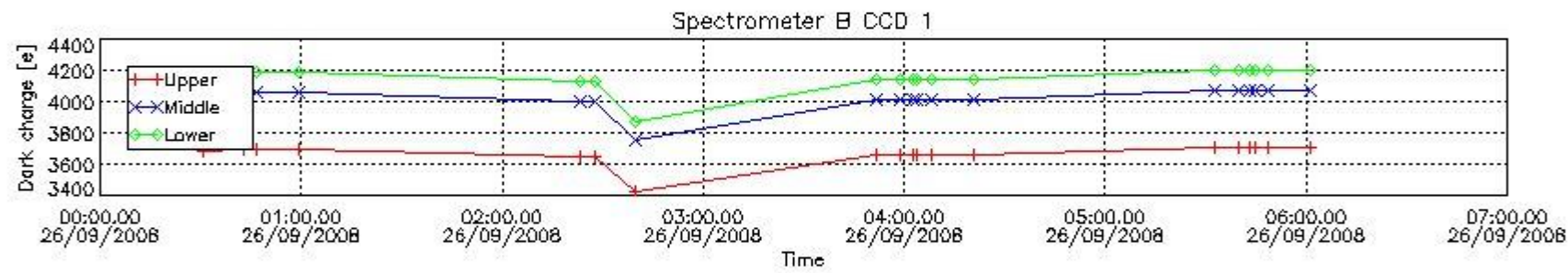
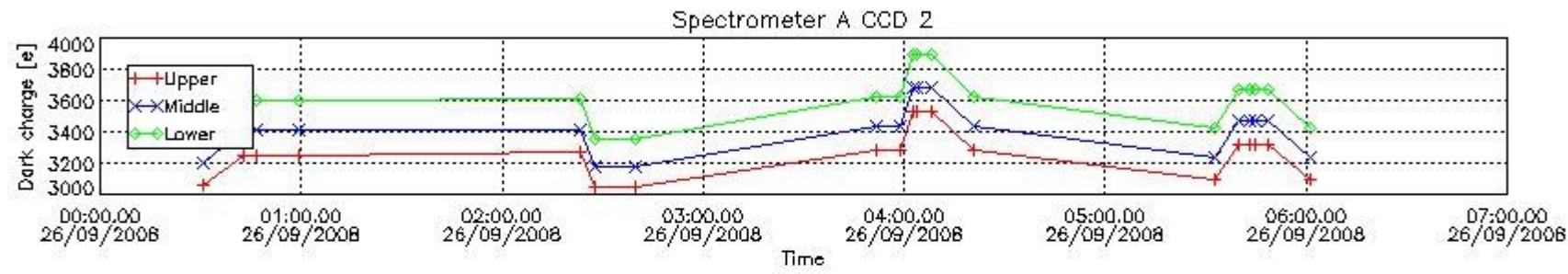
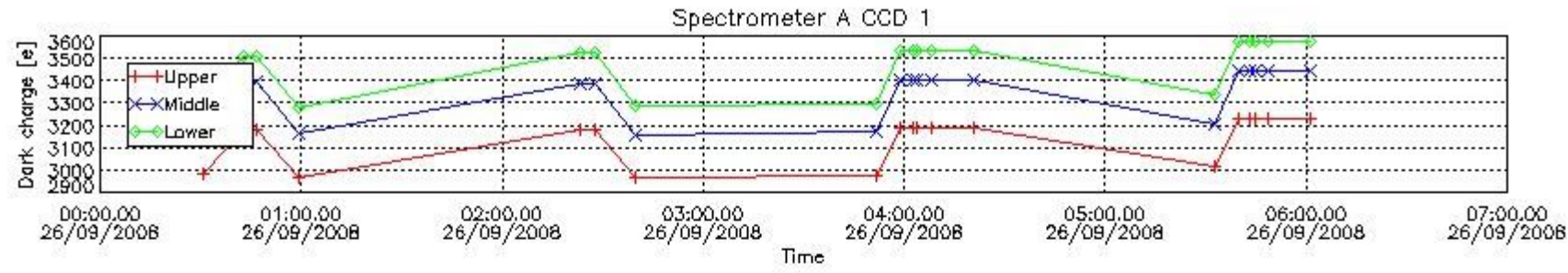
4. Overview of dark signal processing per product

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



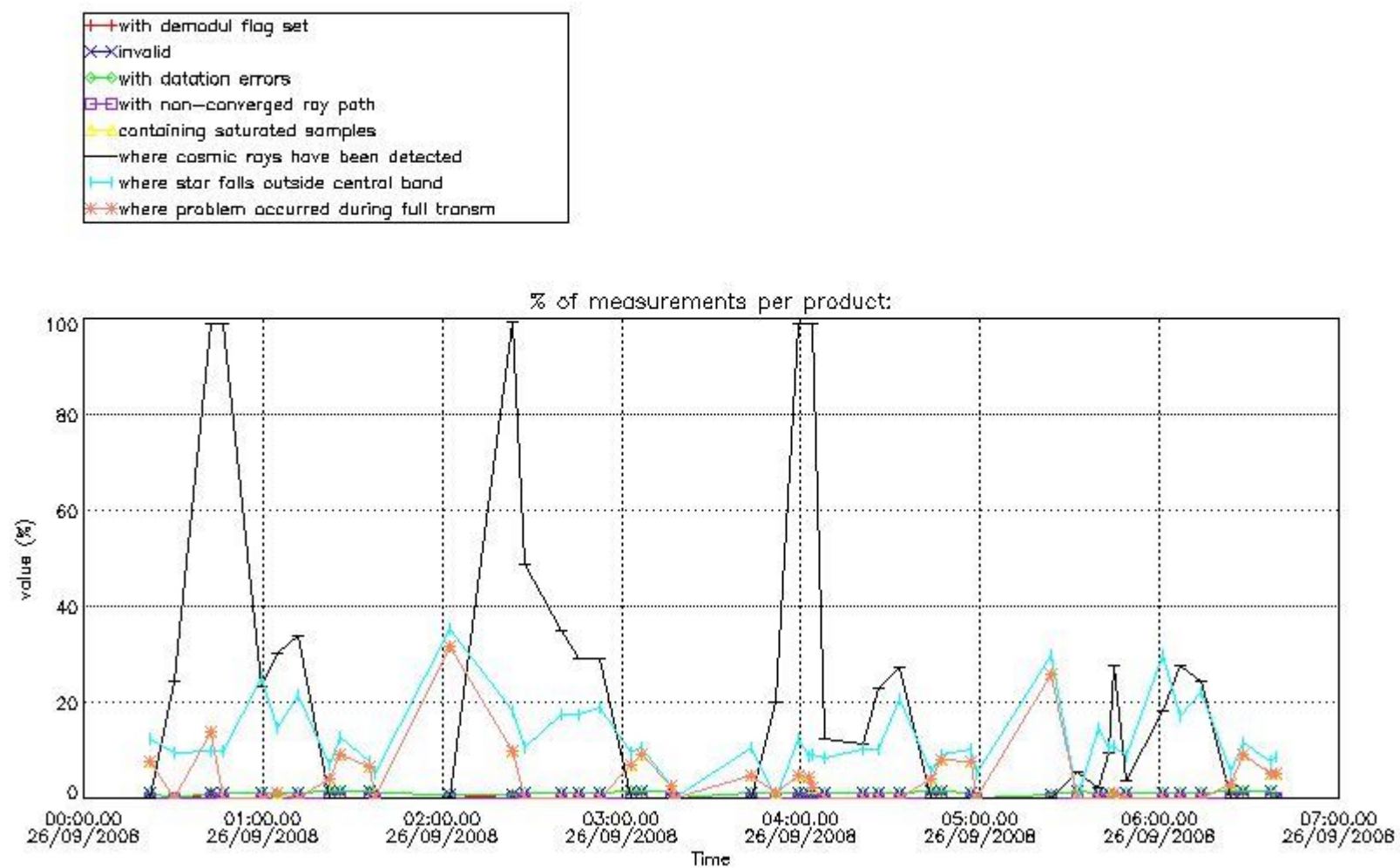
5. Demodulation flag and quality information monitoring

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.

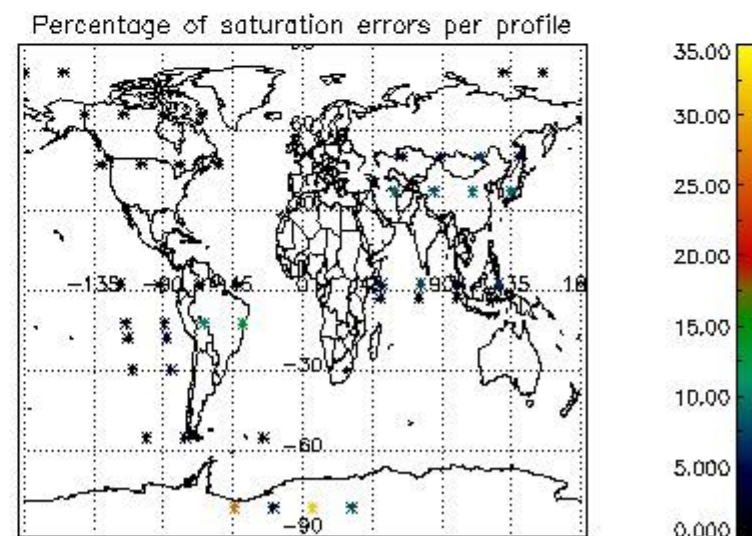
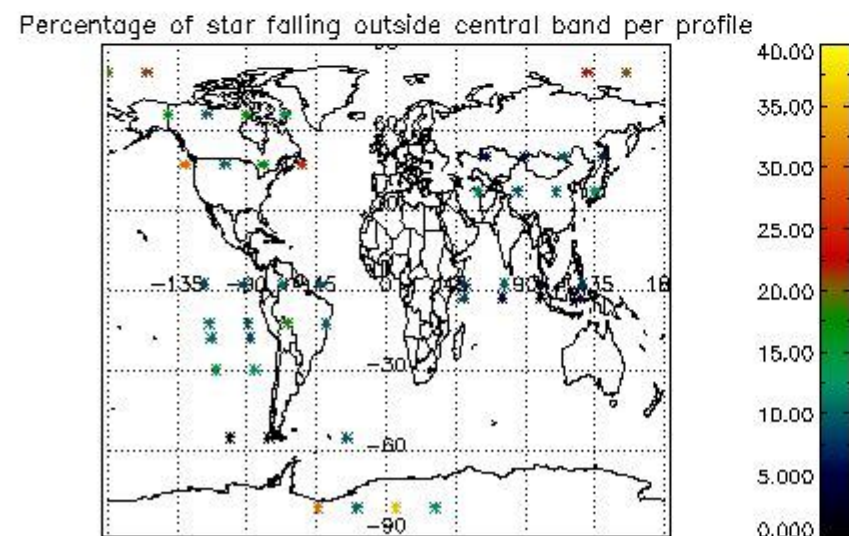
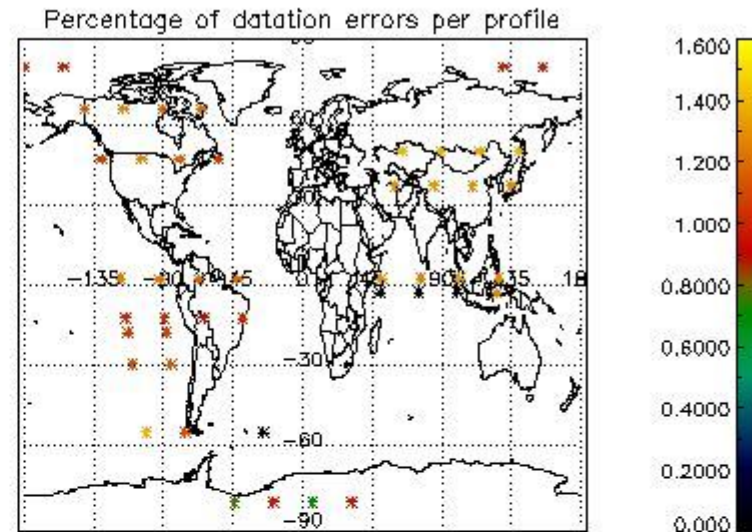
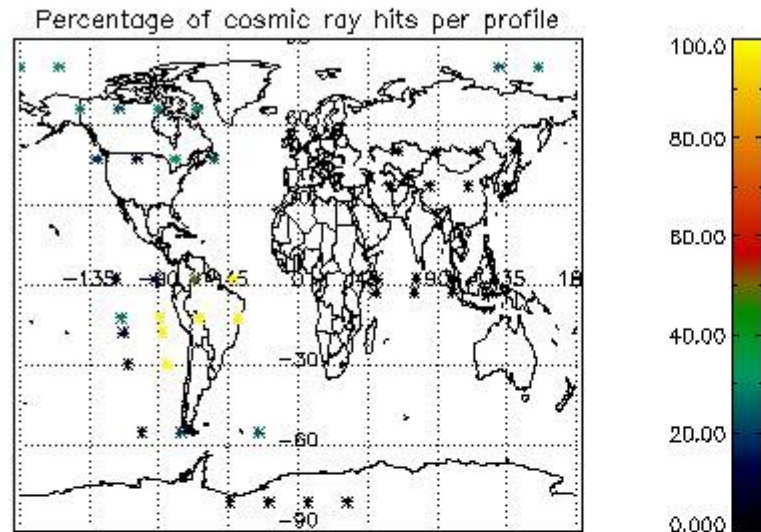
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	31.9149 %
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)



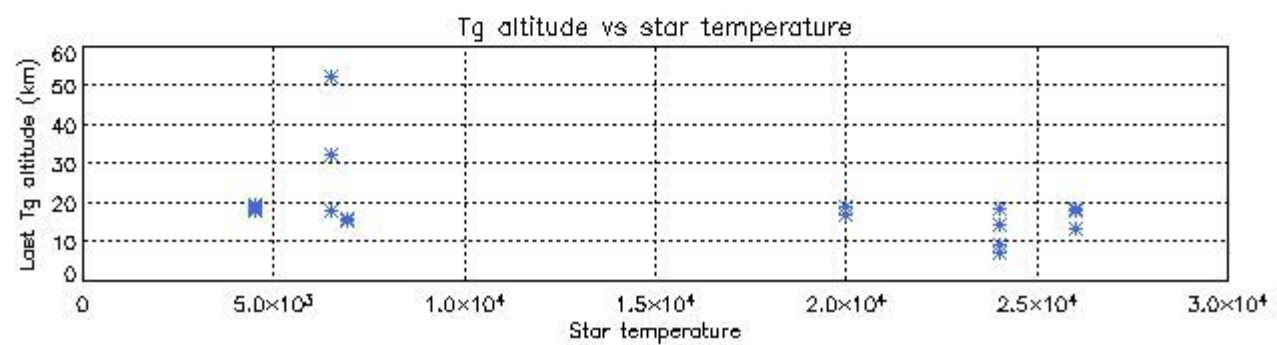
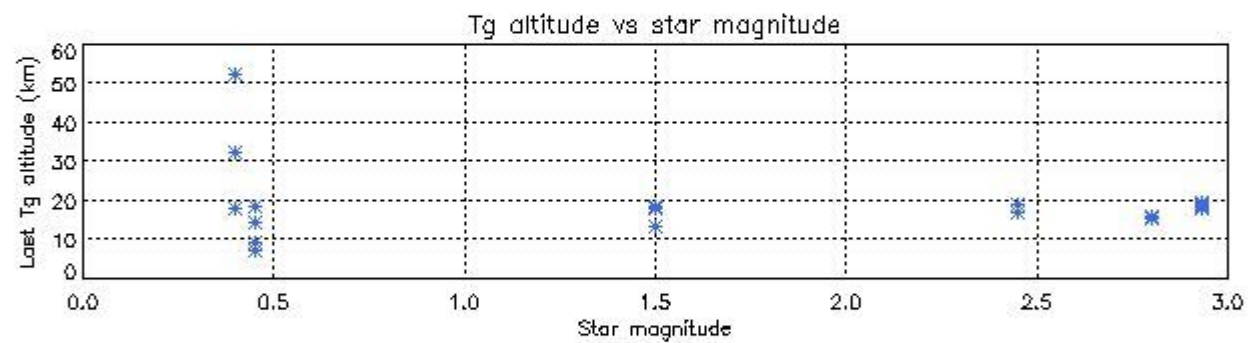
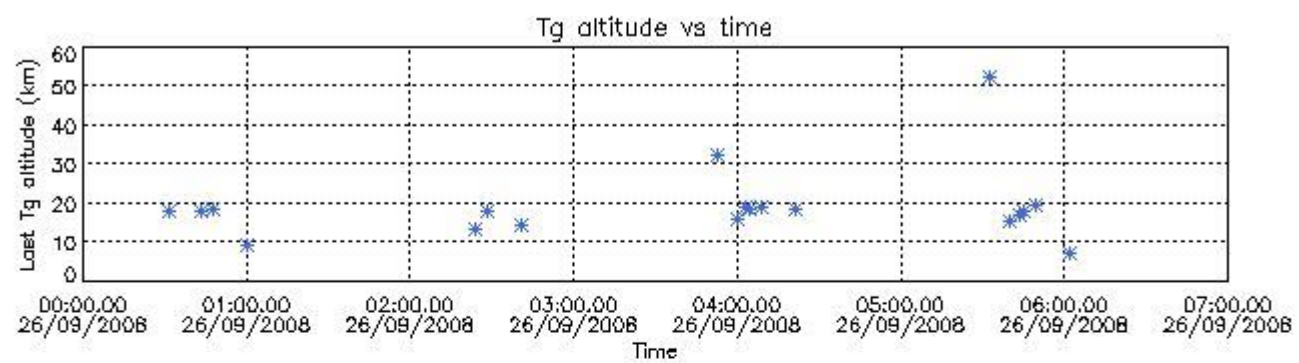
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	19.051	18.918	NaN
St. deviation:	9.4238	5.6382	NaN
Maximum:	52.238	29.906	NaN
Minimum:	7.1622	4.2385	NaN
Number of data:	19.000	20.000	NaN

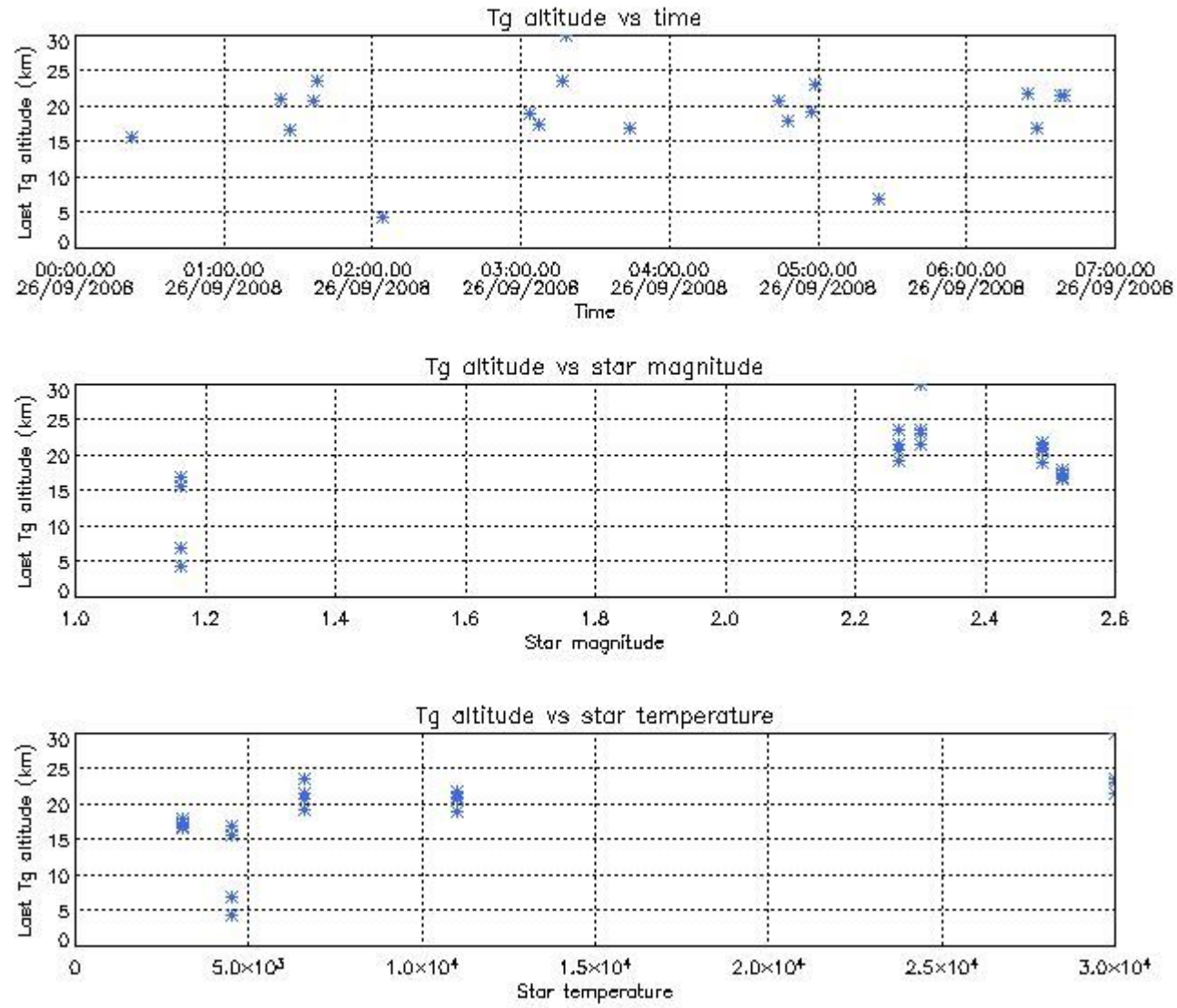
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

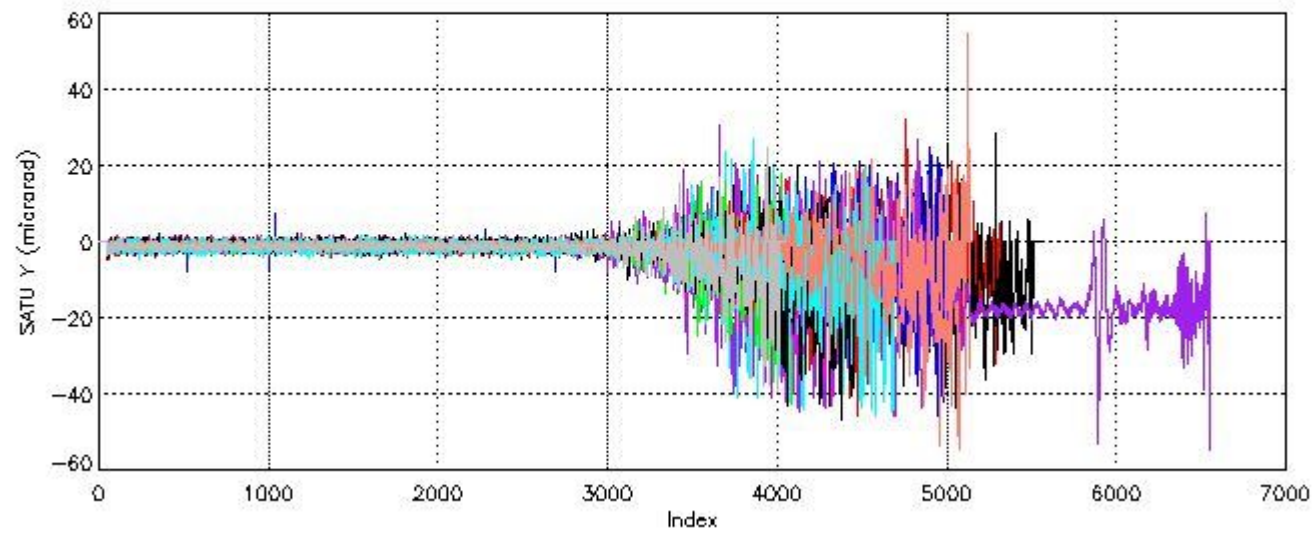
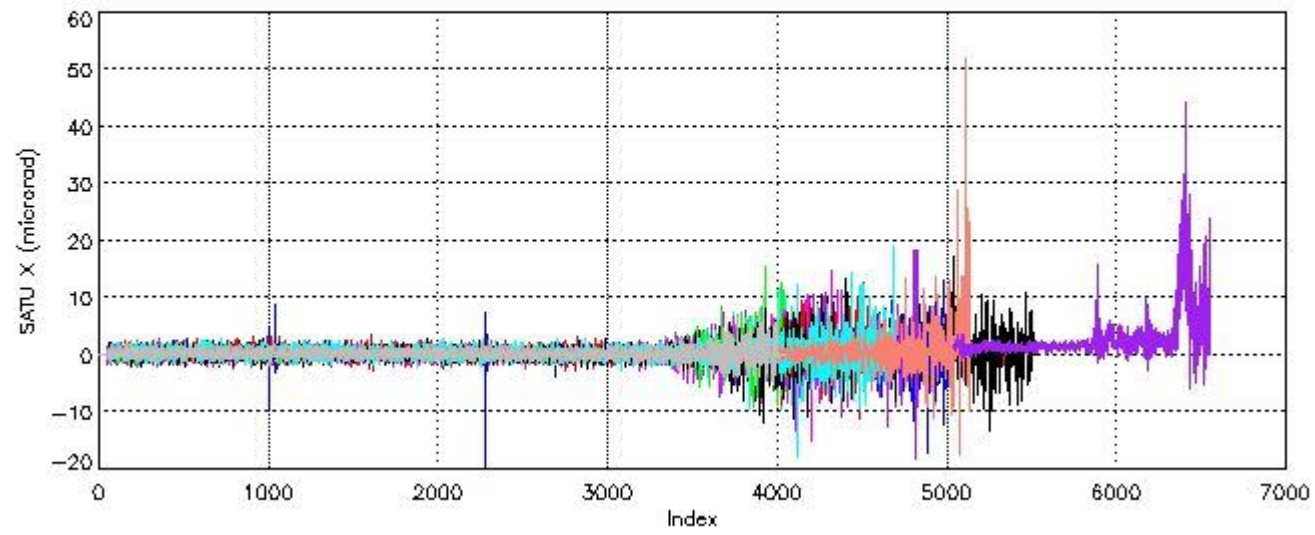


7. Star Acquisition and Tracking Unit (SATU)

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:	0.24532	-1.1543	0.24784	-1.2736
St. deviation:	0.45874	0.63486	0.60660	0.77287
Maximum:	8.7000	7.2000	4.2000	2.8000
Minimum:	-9.7000	-7.9000	-4.0000	-6.0000

Number of data:	19750.	19750.	18450.	18450.
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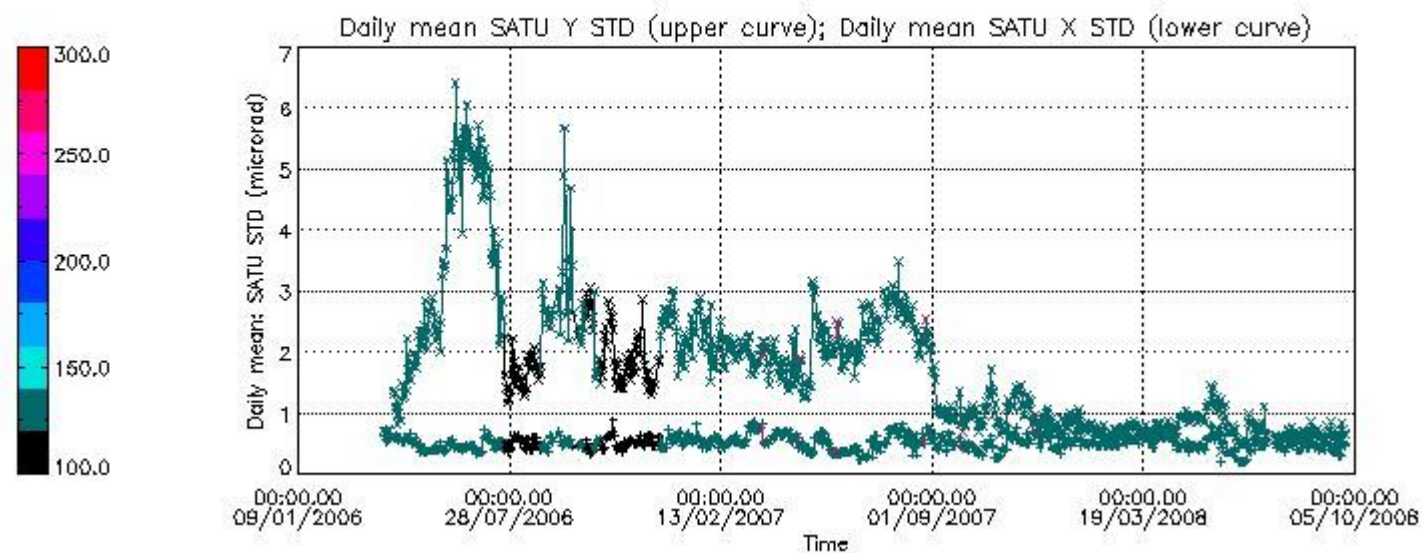
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

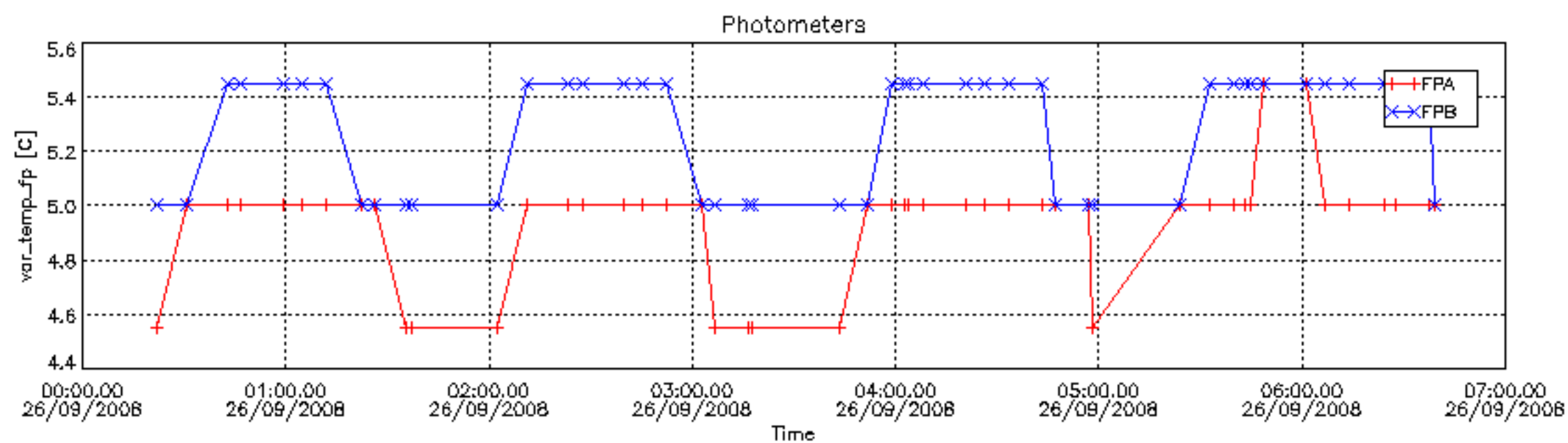
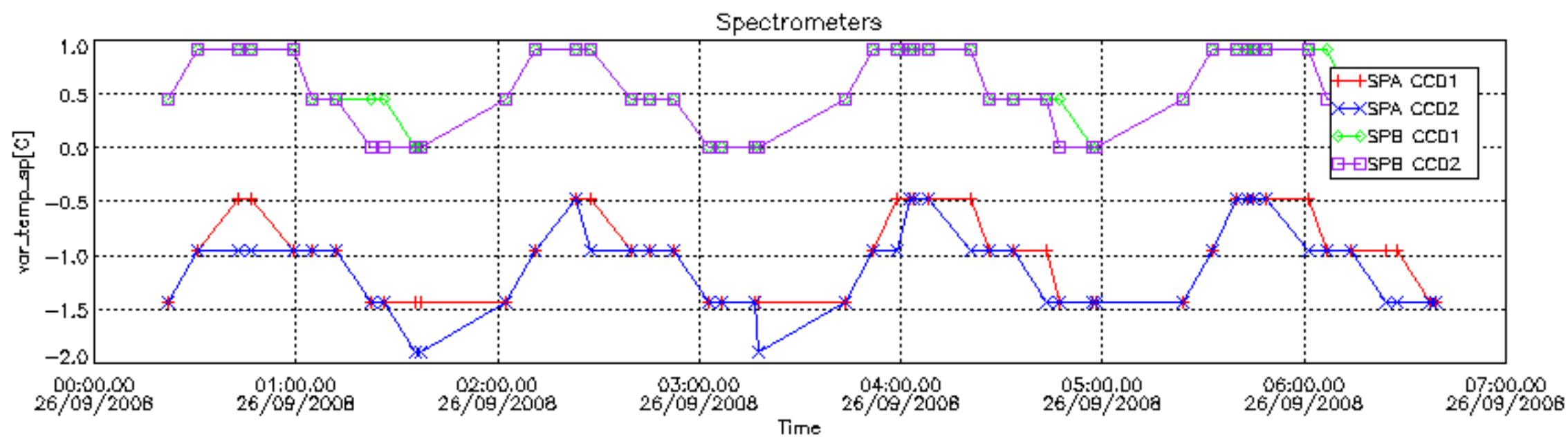
Lower curve: STD of SATU X axis

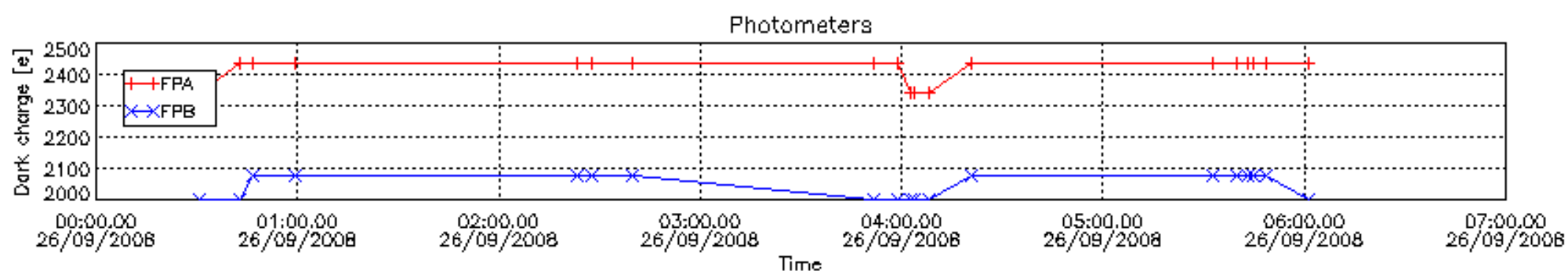
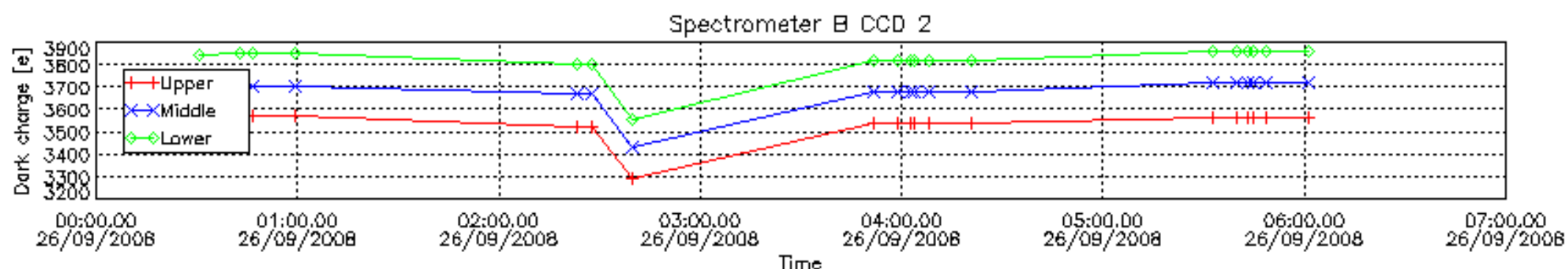
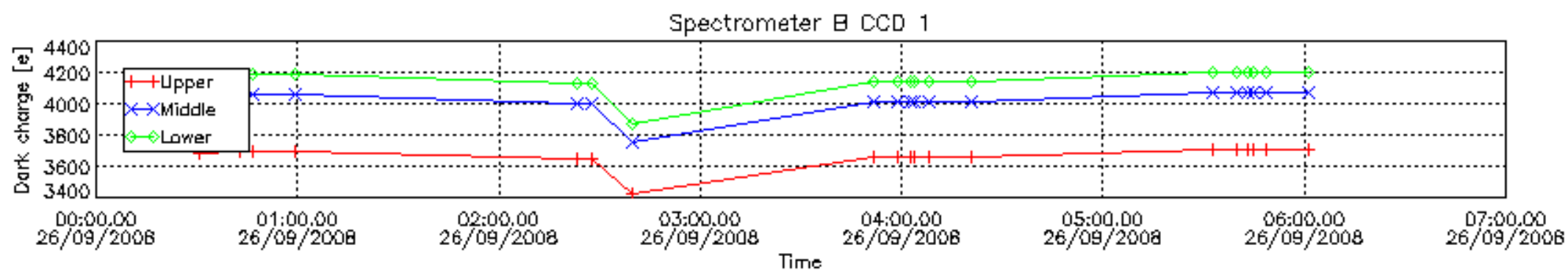
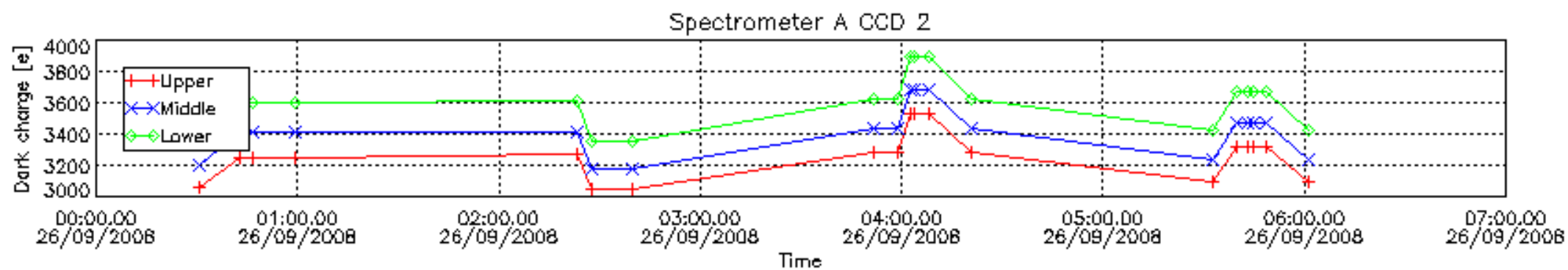
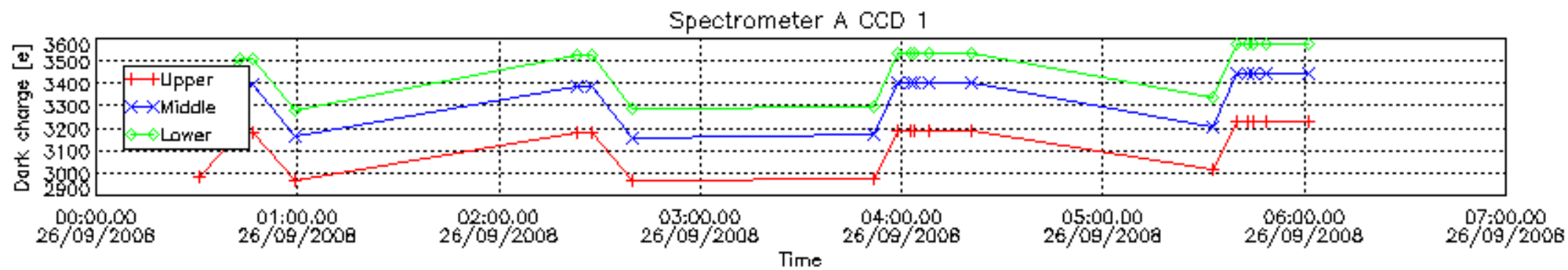


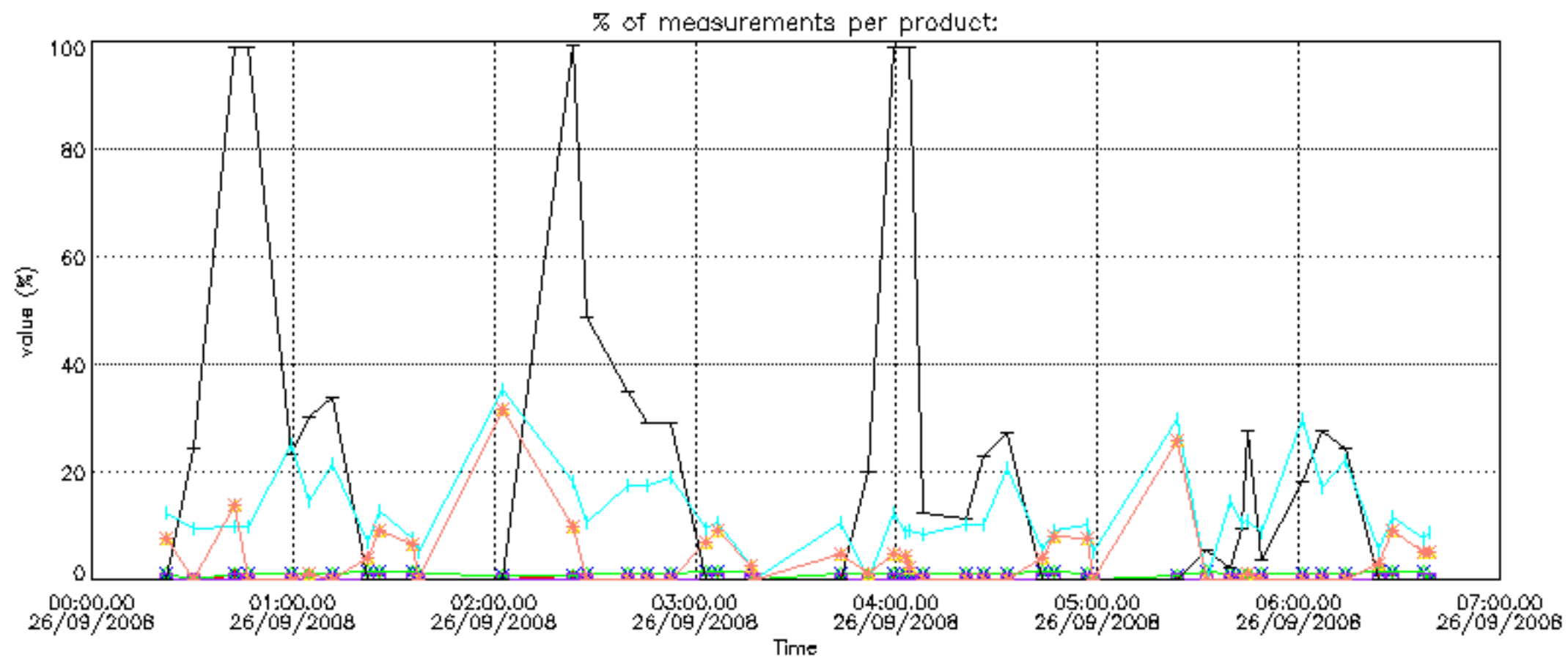
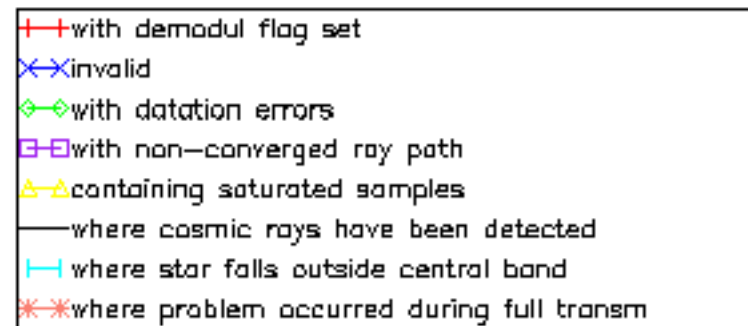
8. Auxiliary Data Files used for the production reported in section 2.4

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.

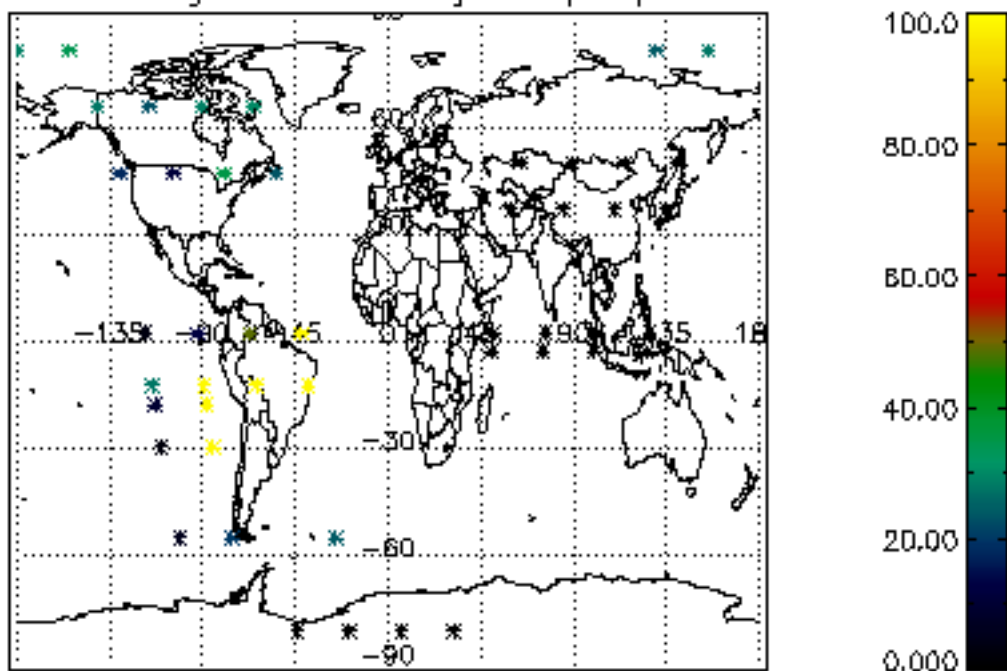
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	26-SEP-2008 00:22:00
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080922_092941_20080919_000000_20100101_000000	1	26-SEP-2008 00:22:00
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	26-SEP-2008 00:22:00
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	26-SEP-2008 00:22:00
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	26-SEP-2008 00:22:00
ECMWF_FILE	AUX_ECF_AXNECM20080925_072112_20080925_210000_20080926_090000	1	26-SEP-2008 00:22:00
ECMWF_FILE	AUX_ECF_AXNECM20080925_190112_20080926_030000_20080926_150000	23	26-SEP-2008 03:43:12
OPTIONAL_ECMWF_FILE	MISSING	1	26-SEP-2008 00:22:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080925_210544_000060572072_00243_34365_6432.N1	1	26-SEP-2008 00:22:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080925_225200_000057382072_00244_34366_6433.N1	3	26-SEP-2008 00:42:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080926_003257_000054192072_00245_34367_6434.N1	13	26-SEP-2008 02:11:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080926_020835_000041442072_00246_34368_6435.N1	23	26-SEP-2008 03:43:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080926_032258_000057382072_00247_34369_6436.N1	36	26-SEP-2008 05:23:48



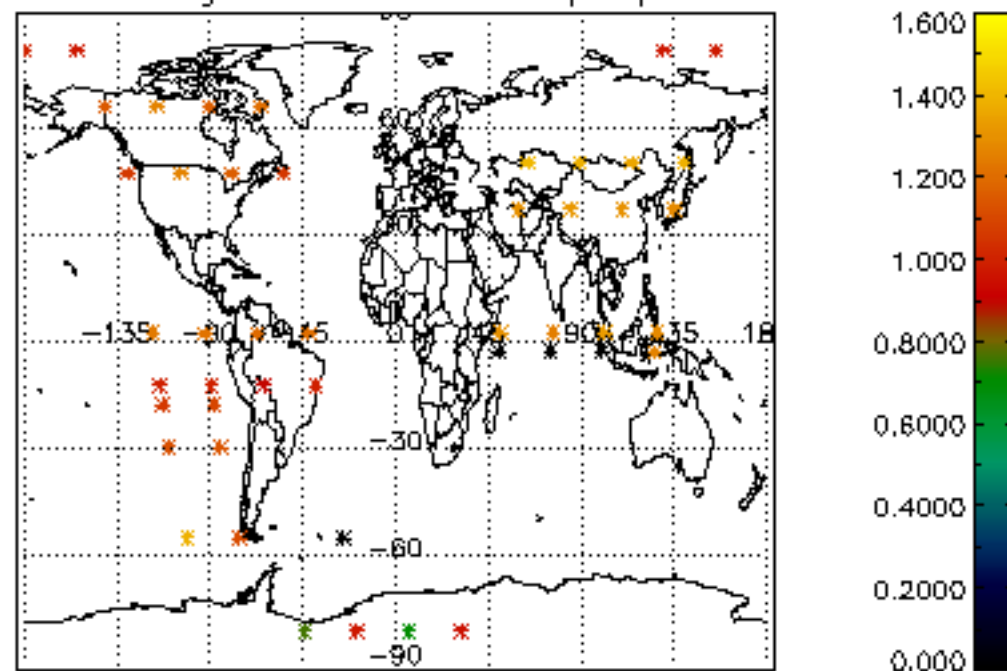




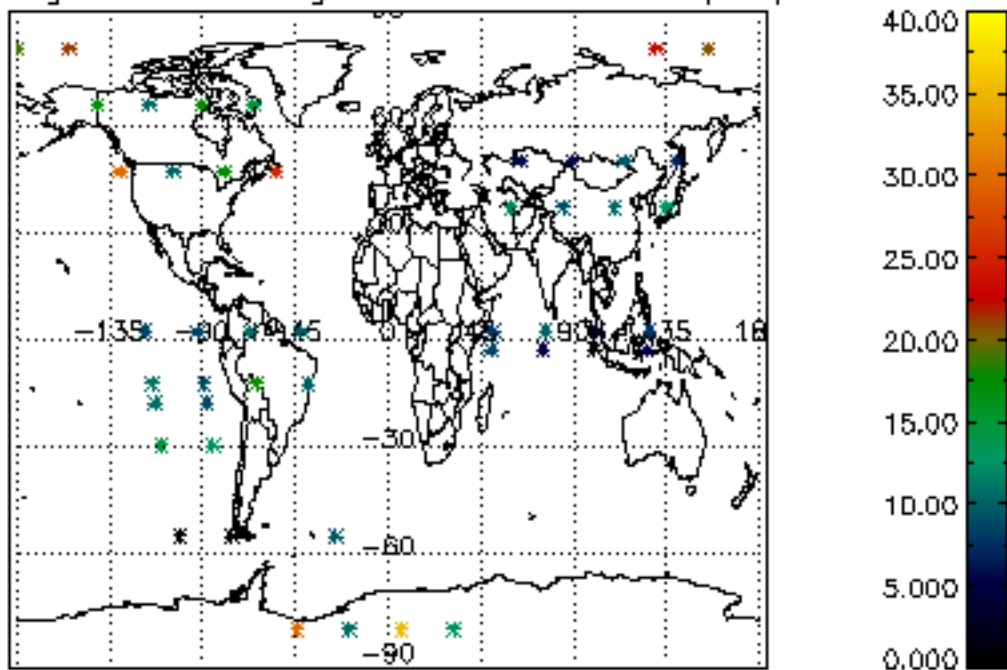
Percentage of cosmic ray hits per profile



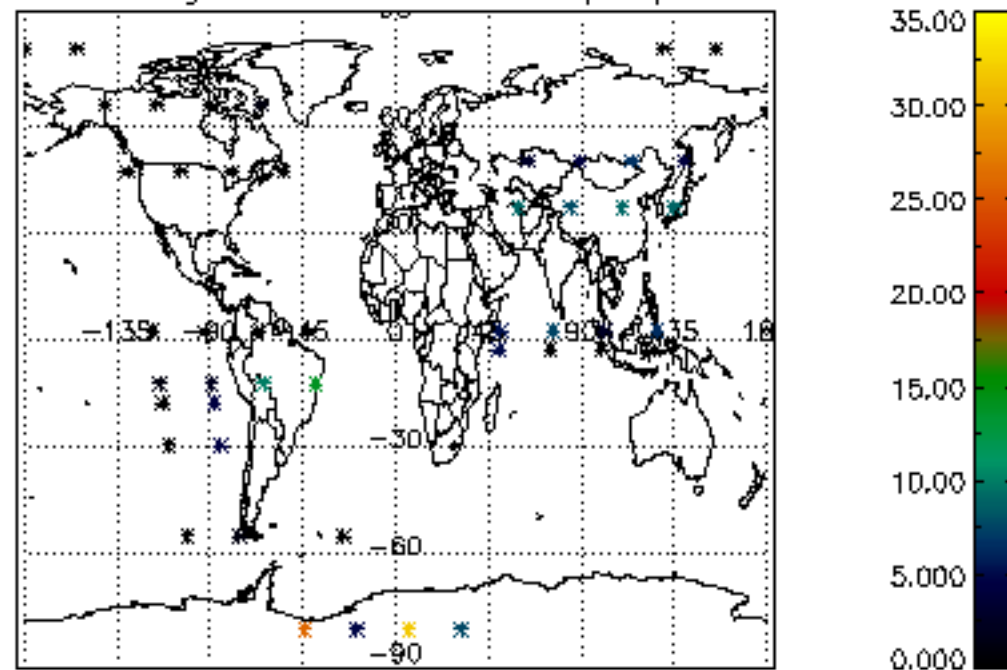
Percentage of datation errors per profile



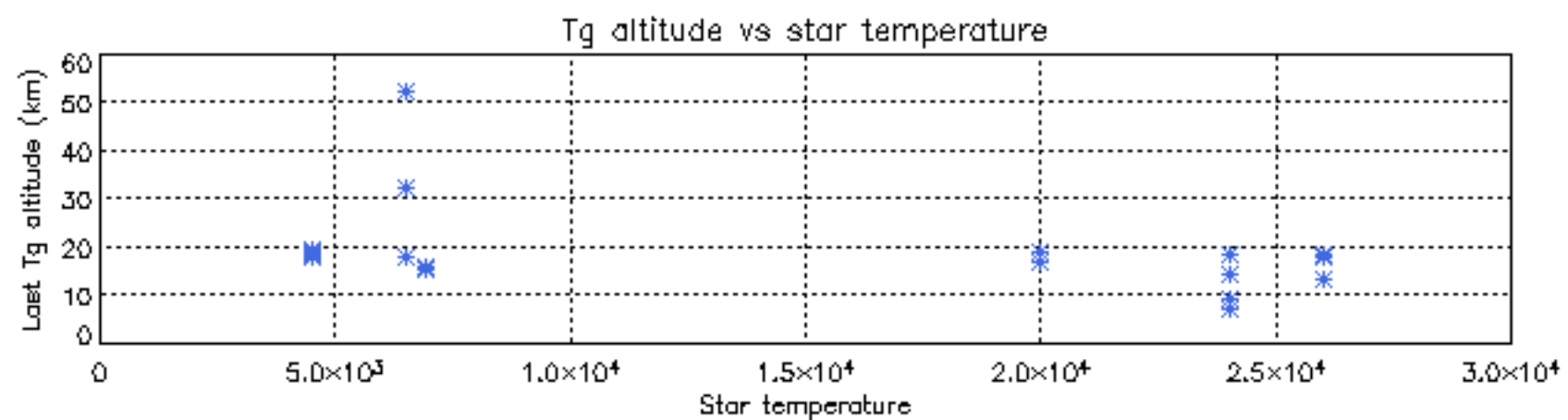
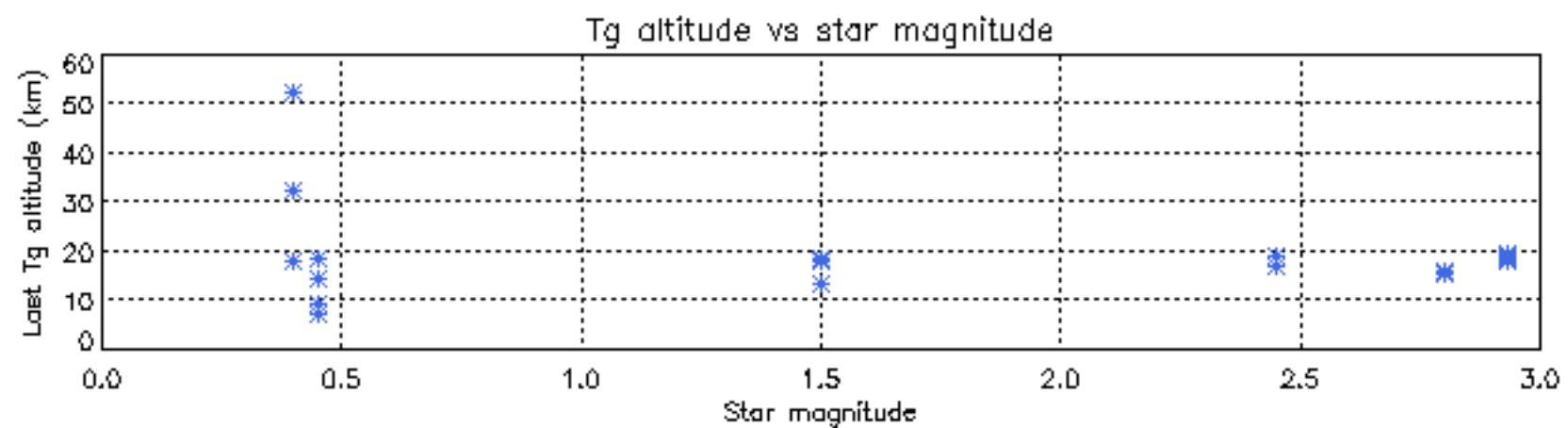
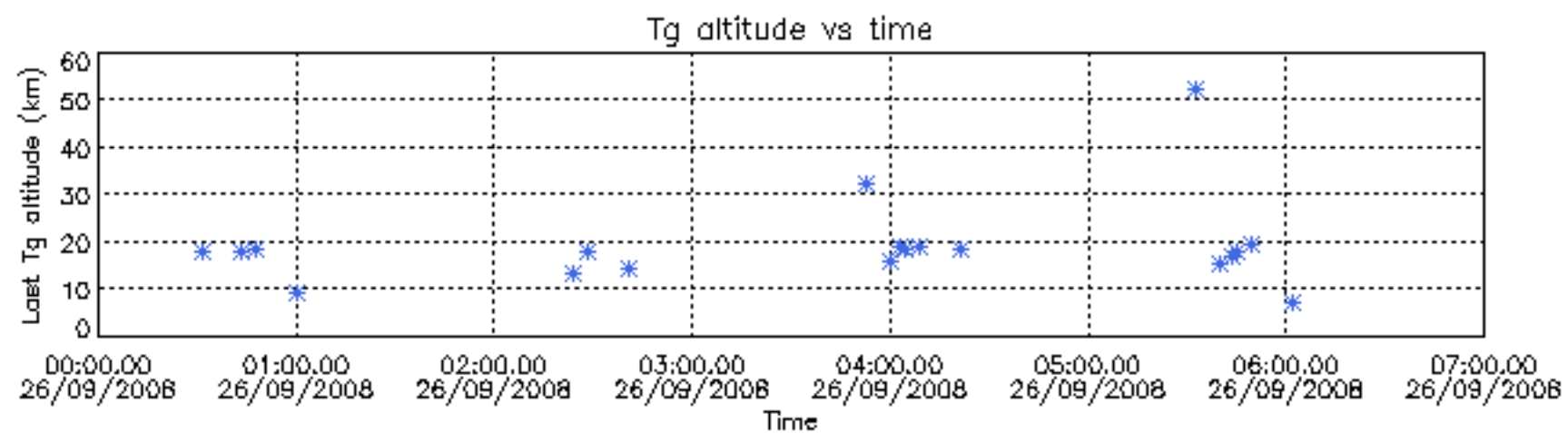
Percentage of star falling outside central band per profile



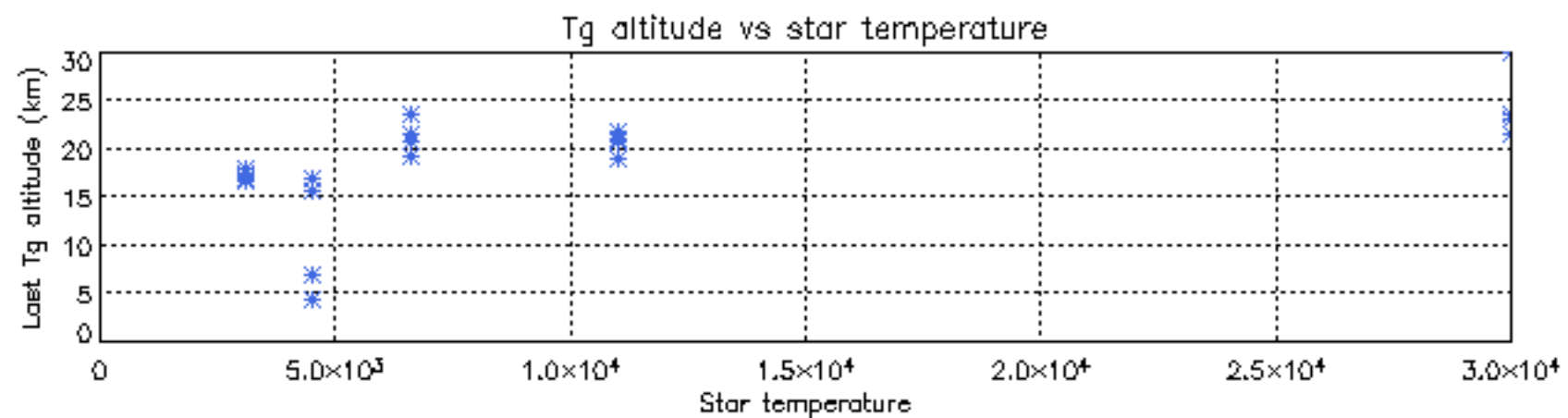
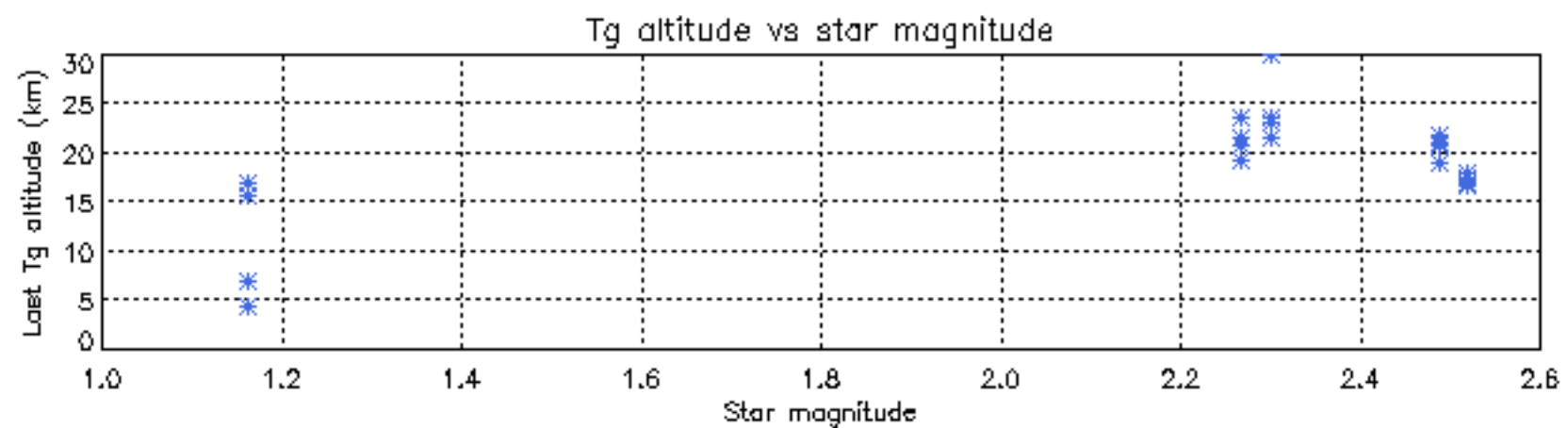
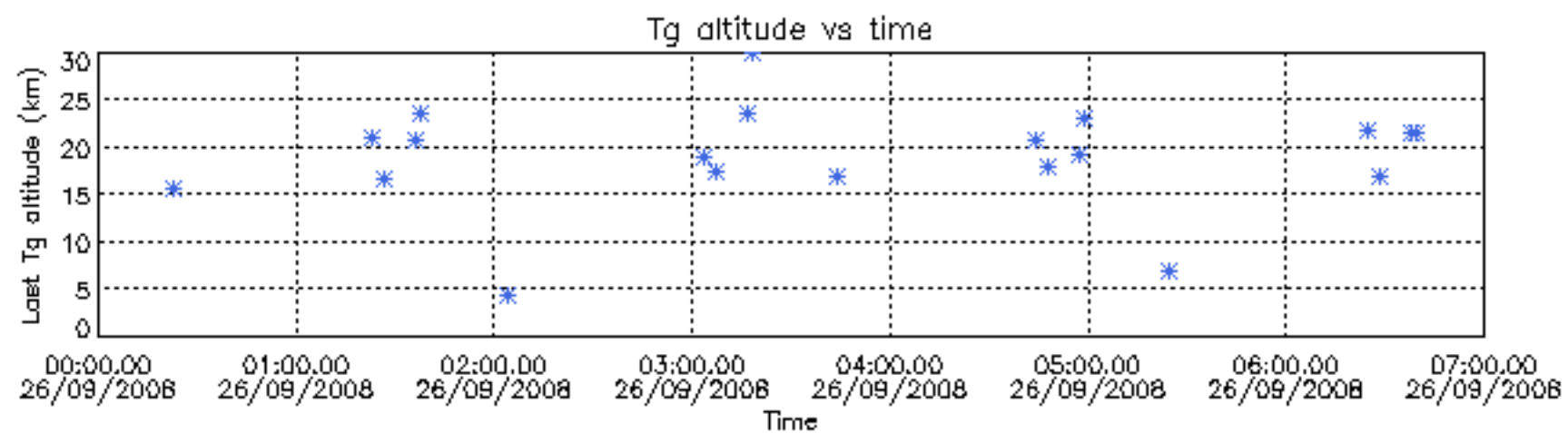
Percentage of saturation errors per profile

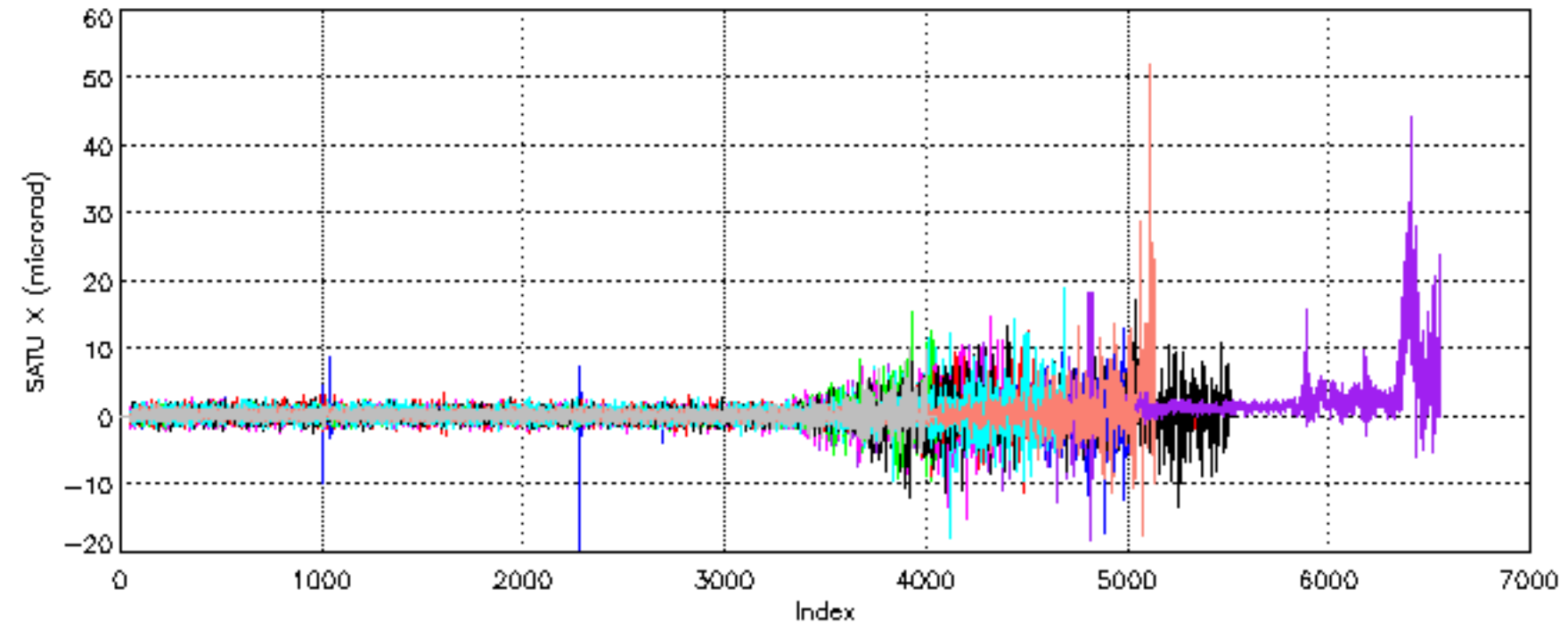


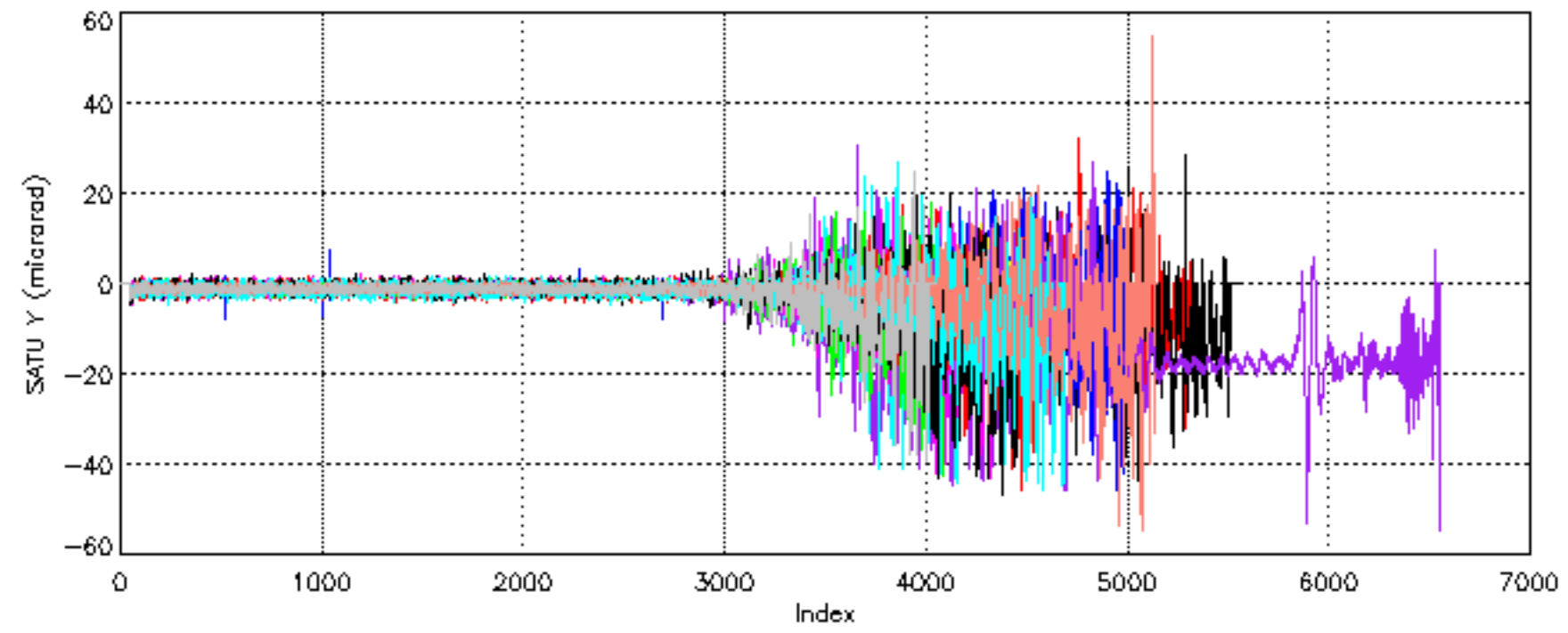
Tangent altitude at which the star is lost

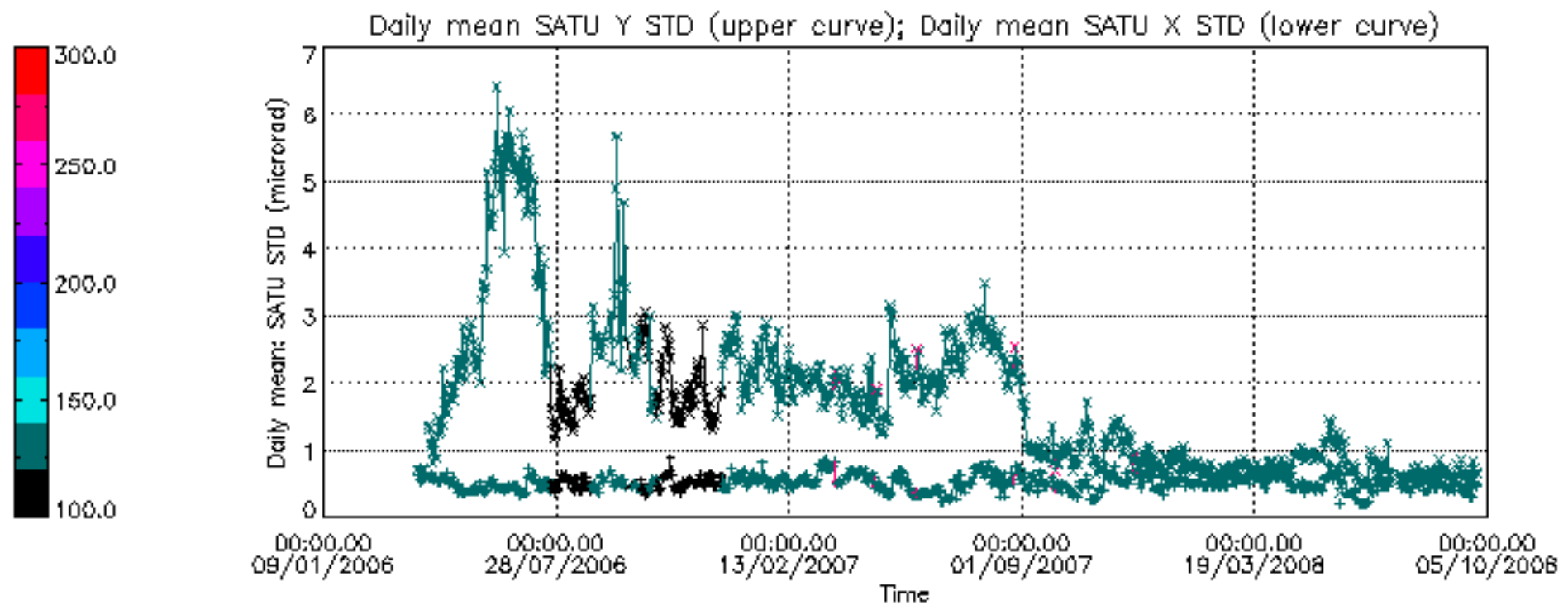


Tangent altitude at which the star is lost









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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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 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
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 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
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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
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 5; -399.0; 01-SEP-2008 03:46:21; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;34011
 6; -275.7; 01-SEP-2008 03:48:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34011
 7; -88.7; 01-SEP-2008 03:51:32; Dark ; 50.0; 2; Alp Car ; -0.74; 7000;occ; 100; 0;34011
 8; 531.0; 01-SEP-2008 04:01:51; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;34012
 9; 608.2; 01-SEP-2008 04:03:09; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;34012
 10; 965.7; 01-SEP-2008 04:09:06; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;34012
 11; 1086.3; 01-SEP-2008 04:11:07; Dark ; 36.5; 31; Alp Gru ; 1.73; 15200;occ; 73; 0;34012
 12; 1331.5; 01-SEP-2008 04:15:12; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;34012
 13; 1620.6; 01-SEP-2008 04:20:01; Dark ; 39.5; 142; 49Del Cap ; 2.85; 8900;occ; 79; 0;34012
 14; 1808.1; 01-SEP-2008 04:23:08; Bright; 36.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 73; 0;34012
 15; 1895.6; 01-SEP-2008 04:24:36; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;34012
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 17; 2488.3; 01-SEP-2008 04:34:29; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;34012
 18; 2601.4; 01-SEP-2008 04:36:22; Bright; 36.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 72; 0;34012
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 20; 2975.3; 01-SEP-2008 04:42:36; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;34012
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 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
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17; 2488.4; 01-SEP-2008 06:15:05; Bright; 35.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 70; 0;34013
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
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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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9; 2602.7; 01-SEP-2008 21:22:22; Bright; 33.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 66; 0;34022
10; 2679.0; 01-SEP-2008 21:23:39; Bright; 36.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 73; 0;34022
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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14; 2074.9; 01-SEP-2008 22:54:10; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;34023
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17; 2679.1; 01-SEP-2008 23:04:15; Bright; 33.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 67; 0;34023
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 2;-1104.1; 04-SEP-2008 07:01:33; Dark ; 36.5; 8; 10Alp CMi ; 0.40; 6500;occ; 73; 0;34056
 3; -628.2; 04-SEP-2008 07:09:29; Dark ; 49.5; 1; 9Alp CMA ; -1.44; 11000;occ; 99; 0;34056
 4; -544.9; 04-SEP-2008 07:10:52; Dark ; 47.0; 47; 2Bet CMA ; 1.98; 28000;occ; 94; 0;34056
 5; -468.3; 04-SEP-2008 07:12:09; Dark ; 43.0; 23; 21Eps CMA ; 1.50; 26000;occ; 86; 0;34056
 6; -379.9; 04-SEP-2008 07:13:37; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;34056
 7; -258.6; 04-SEP-2008 07:15:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34056
 8; -138.8; 04-SEP-2008 07:17:38; Dark ; 40.5; 161; Tau Pup ; 2.93; 4500;occ; 81; 0;34056
 9; -67.4; 04-SEP-2008 07:18:49; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;34056
 10; 555.4; 04-SEP-2008 07:29:12; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;34057
 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
 13; 1097.0; 04-SEP-2008 07:38:14; Dark ; 41.5; 31; Alp Gru ; 1.73; 15200;occ; 83; 0;34057
 14; 1265.8; 04-SEP-2008 07:41:03; Dark ; 38.0; 172; Gam Gru ; 3.00; 13100;occ; 76; 0;34057
 15; 1343.3; 04-SEP-2008 07:42:20; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;34057
 16; 1626.6; 04-SEP-2008 07:47:03; Dark ; 40.0; 142; 49Del Cap ; 2.85; 8900;occ; 80; 0;34057

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 2; 1895.5; 04-SEP-2008 07:51:32; Bright; 38.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 77; 0;34057
 3; 2074.6; 04-SEP-2008 07:54:31; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;34057
 4; 2492.2; 04-SEP-2008 08:01:29; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;34057
 5; 2681.7; 04-SEP-2008 08:04:39; Bright; 35.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 70; 0;34057
 6; 2972.0; 04-SEP-2008 08:09:29; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0;34057
 7; 3434.0; 04-SEP-2008 08:17:11; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;34057
 8; 4459.7; 04-SEP-2008 08:34:17; Bright; 38.0; 24; 66Alp Gem ; 1.58; 10200;occ; 76; 0;34057
 9; 4932.2; 04-SEP-2008 08:42:09; Dark ; 36.5; 8; 10Alp CMi ; 0.40; 6500;occ; 73; 0;34057
 10; 5408.4; 04-SEP-2008 08:50:05; Dark ; 50.5; 1; 9Alp CMA ; -1.44; 11000;occ; 101; 0;34057
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 2; -467.7; 04-SEP-2008 08:52:45; Dark ; 43.5; 23; 21Eps CMA ; 1.50; 26000;occ; 87; 0;34057
 3; -379.4; 04-SEP-2008 08:54:13; Dark ; 42.5; 117; Pi Pup ; 2.71; 3800;occ; 85; 0;34057
 4; -258.2; 04-SEP-2008 08:56:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34057
 5; -138.4; 04-SEP-2008 08:58:14; Dark ; 40.0; 161; Tau Pup ; 2.93; 4500;occ; 80; 0;34057
 6; -66.9; 04-SEP-2008 08:59:26; Dark ; 44.0; 2; Alp Car ; -0.74; 7000;occ; 88; 0;34057
 7; 556.1; 04-SEP-2008 09:09:49; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;34058
 8; 635.7; 04-SEP-2008 09:11:08; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;34058
 9; 991.5; 04-SEP-2008 09:17:04; Dark ; 48.5; 84; Alp Phe ; 2.40; 4500;occ; 97; 0;34058
 10; 1097.2; 04-SEP-2008 09:18:50; Dark ; 40.5; 31; Alp Gru ; 1.73; 15200;occ; 81; 0;34058
 11; 1265.8; 04-SEP-2008 09:21:39; Dark ; 37.0; 172; Gam Gru ; 3.00; 13100;occ; 74; 0;34058
 12; 1343.6; 04-SEP-2008 09:22:56; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;34058
 13; 1626.8; 04-SEP-2008 09:27:39; Dark ; 51.5; 142; 49Del Cap ; 2.85; 8900;occ; 103; 0;34058

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 2; 1895.6; 04-SEP-2008 09:32:08; Bright; 38.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 76; 0;34058
 3; 2074.5; 04-SEP-2008 09:35:07; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;34058
 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
 8; 4459.8; 04-SEP-2008 10:14:53; Bright; 27.5; 24; 66Alp Gem ; 1.58; 10200;occ; 55; 0;34058

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 2;-1103.4; 04-SEP-2008 10:22:45; Dark ; 54.0; 8; 10Alp CMi ; 0.40; 6500;occ; 108; 0;34058
 3; -626.8; 04-SEP-2008 10:30:42; Dark ; 50.5; 1; 9Alp CMA ; -1.44; 11000;occ; 101; 0;34058
 4; -543.2; 04-SEP-2008 10:32:05; Dark ; 43.0; 47; 2Bet CMA ; 1.98; 28000;occ; 86; 0;34058

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5; -467.0; 04-SEP-2008 10:33:22; Dark ; 43.0; 23; 21Eps CMA ; 1.50; 26000;occ; 86; 0;34058
6; -379.0; 04-SEP-2008 10:34:50; Dark ; 42.5; 117; Pi Pup ; 2.71; 3800;occ; 85; 0;34058
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
10; 556.5; 04-SEP-2008 10:50:25; Dark ; 41.5; 143; Alp Hyi ; 2.86; 7200;occ; 83; 0;34059
11; 636.2; 04-SEP-2008 10:51:45; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;34059
12; 992.1; 04-SEP-2008 10:57:41; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;34059
13; 1097.4; 04-SEP-2008 10:59:26; Dark ; 42.5; 31; Alp Gru ; 1.73; 15200;occ; 85; 0;34059
14; 1266.0; 04-SEP-2008 11:02:15; Dark ; 37.5; 172; Gam Gru ; 3.00; 13100;occ; 75; 0;34059
15; 1343.8; 04-SEP-2008 11:03:32; Dark ; 43.0; 18; 24Alp PsA ; 1.17; 9700;occ; 86; 0;34059
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3; 2074.6; 04-SEP-2008 11:15:43; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;34059
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
6; 2971.8; 04-SEP-2008 11:30:40; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;34059
7; 3433.9; 04-SEP-2008 11:38:22; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;34059
8; 4459.9; 04-SEP-2008 11:55:28; Bright; 40.5; 24; 66Alp Gem ; 1.58; 10200;occ; 81; 0;34059
9; 4932.8; 04-SEP-2008 12:03:21; Dark ; 48.5; 8; 10Alp CMi ; 0.40; 6500;occ; 97; 0;34059
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11; 5493.5; 04-SEP-2008 12:12:42; Dark ; 43.0; 47; 2Bet CMA ; 1.98; 28000;occ; 86; 0;34059
12; 5569.4; 04-SEP-2008 12:13:58; Dark ; 41.5; 23; 21Eps CMA ; 1.50; 26000;occ; 83; 0;34059
13; 5657.3; 04-SEP-2008 12:15:26; Dark ; 44.0; 117; Pi Pup ; 2.71; 3800;occ; 88; 0;34059
14; 5778.4; 04-SEP-2008 12:17:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34059
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16; 5969.9; 04-SEP-2008 12:20:38; Dark ; 45.5; 2; Alp Car ;-0.74; 7000;occ; 91; 0;34059
17; 6593.0; 04-SEP-2008 12:31:02; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;34059
18; 6672.6; 04-SEP-2008 12:32:21; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;34059
19; 7028.5; 04-SEP-2008 12:38:17; Dark ; 53.0; 84; Alp Phe ; 2.40; 4500;occ; 106; 0;34059
20; 7133.5; 04-SEP-2008 12:40:02; Dark ; 38.5; 31; Alp Gru ; 1.73; 15200;occ; 77; 0;34059
21; 7302.3; 04-SEP-2008 12:42:51; Dark ; 36.5; 172; Gam Gru ; 3.00; 13100;occ; 73; 0;34059
22; 7379.9; 04-SEP-2008 12:44:08; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;34059
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3; 1895.5; 04-SEP-2008 12:53:20; Bright; 38.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 77; 0;34060
4; 2074.5; 04-SEP-2008 12:56:19; Bright; 37.0; 61; 8Eps Peg ; 2.10; 3900;occ; 74; 0;34060
5; 2492.5; 04-SEP-2008 13:03:17; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;34060
6; 2682.0; 04-SEP-2008 13:06:26; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;34060
7; 2971.8; 04-SEP-2008 13:11:16; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;34060
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9; 4460.1; 04-SEP-2008 13:36:04; Bright; 39.0; 24; 66Alp Gem ; 1.58; 10200;occ; 78; 0;34060
10; 4933.2; 04-SEP-2008 13:43:58; Dark ; 56.0; 8; 10Alp CMi ; 0.40; 6500;occ; 112; 0;34060
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13; 5570.0; 04-SEP-2008 13:54:34; Dark ; 41.5; 23; 21Eps CMA ; 1.50; 26000;occ; 83; 0;34060
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16; 5898.9; 04-SEP-2008 14:00:03; Dark ; 38.5; 161; Tau Pup ; 2.93; 4500;occ; 77; 0;34060
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19; 6673.3; 04-SEP-2008 14:12:58; Dark ; 47.0; 9; Alp Eri ; 0.45; 24000;occ; 94; 0;34060
20; 7029.1; 04-SEP-2008 14:18:54; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;34060
21; 7133.8; 04-SEP-2008 14:20:38; Dark ; 40.0; 31; Alp Gru ; 1.73; 15200;occ; 80; 0;34060
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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3; 1895.7; 04-SEP-2008 14:33:56; Bright; 38.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 76; 0;34061
4; 2074.6; 04-SEP-2008 14:36:55; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;34061
5; 2492.6; 04-SEP-2008 14:43:53; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;34061
6; 2682.2; 04-SEP-2008 14:47:02; Bright; 36.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 73; 0;34061
7; 2971.8; 04-SEP-2008 14:51:52; Bright; 33.0; 89; 5Alp Cep ; 2.45; 8000;occ; 66; 0;34061

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9; 4460.3; 04-SEP-2008 15:16:41; Bright; 39.0; 24; 66Alp Gem ; 1.58; 10200;occ; 78; 0;34061
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13; 5570.7; 04-SEP-2008 15:35:11; Dark ; 45.0; 23; 21Eps CMA ; 1.50; 26000;occ; 90; 0;34061
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7; 1098.1; 04-SEP-2008 16:01:14; Dark ; 39.5; 31; Alp Gru ; 1.73; 15200;occ; 79; 0;34062
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6; -62.6; 05-SEP-2008 00:04:53; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;34066
7; 560.7; 05-SEP-2008 00:15:17; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;34067
8; 640.7; 05-SEP-2008 00:16:37; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;34067
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19; 2971.3; 05-SEP-2008 00:55:27; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;34067
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4; 626.7; 14-SEP-2008 00:33:37; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;34196
5; 711.6; 14-SEP-2008 00:35:02; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;34196
6; 1057.6; 14-SEP-2008 00:40:48; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;34196
7; 2183.9; 14-SEP-2008 00:59:34; Bright; 40.5; 90; 54Alp Peg ; 2.49; 11000;occ; 81; 0;34196
8; 2418.3; 14-SEP-2008 01:03:29; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;34196
9; 3038.3; 14-SEP-2008 01:13:49; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;34196
10; 3148.7; 14-SEP-2008 01:15:39; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;34196
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4; 8.9; 14-SEP-2008 02:03:55; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;34197
5; 627.3; 14-SEP-2008 02:14:14; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;34197
6; 712.2; 14-SEP-2008 02:15:39; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;34197
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8; 2183.8; 14-SEP-2008 02:40:10; Bright; 40.0; 90; 54Alp Peg ; 2.49; 11000;occ; 80; 0;34197
9; 2418.1; 14-SEP-2008 02:44:05; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;34197
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11; 3148.2; 14-SEP-2008 02:56:15; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;34197
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8; 712.8; 14-SEP-2008 03:56:15; Dark ; 47.5; 9; Alp Eri ; 0.45; 24000;occ; 95; 0;34198
9; 1058.7; 14-SEP-2008 04:02:01; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;34198
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11; 2417.9; 14-SEP-2008 04:24:40; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;34198
12; 3037.5; 14-SEP-2008 04:35:00; Bright; 37.0; 74; 11Bet Cas ; 2.27; 6600;occ; 74; 0;34198
13; 3147.9; 14-SEP-2008 04:36:50; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;34198
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6; 10.1; 14-SEP-2008 05:25:09; Dark ; 56.0; 2; Alp Car ; -0.74; 7000;occ; 112; 0;34199
7; 628.4; 14-SEP-2008 05:35:27; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;34199
8; 713.3; 14-SEP-2008 05:36:52; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;34199
9; 1059.2; 14-SEP-2008 05:42:38; Dark ; 46.0; 84; Alp Phe ; 2.40; 4500;occ; 92; 0;34199
10; 2183.5; 14-SEP-2008 06:01:22; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;34199

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3; 2415.0; 14-SEP-2008 21:10:37; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;34208
4; 3032.8; 14-SEP-2008 21:20:55; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;34208
5; 3141.9; 14-SEP-2008 21:22:44; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;34208
6; 4480.2; 14-SEP-2008 21:45:02; Bright; 43.0; 24; 66Alp Gem ; 1.58; 10200;occ; 86; 0;34208
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5; 633.2; 14-SEP-2008 22:21:31; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;34209
6; 718.3; 14-SEP-2008 22:22:56; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;34209
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9; 2414.8; 14-SEP-2008 22:51:13; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;34209
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11; 3141.2; 14-SEP-2008 23:03:19; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;34209
12; 4480.3; 14-SEP-2008 23:25:38; Bright; 44.0; 24; 66Alp Gem ; 1.58; 10200;occ; 88; 0;34209
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6; 718.8; 15-SEP-2008 00:03:33; Dark ; 51.5; 9; Alp Eri ; 0.45; 24000;occ; 103; 0;34210
7; 1063.7; 15-SEP-2008 00:09:17; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;34210
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9; 2414.4; 15-SEP-2008 00:31:48; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;34210
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6; 719.3; 15-SEP-2008 01:44:09; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;34211
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5; -138.0; 15-SEP-2008 03:10:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34211
6; 18.0; 15-SEP-2008 03:13:04; Dark ; 53.5; 2; Alp Car ; -0.74; 7000;occ; 107; 0;34212
7; 634.6; 15-SEP-2008 03:23:20; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;34212
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 4; 3026.5; 15-SEP-2008 20:49:12; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;34222
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14; 3125.0; 16-SEP-2008 23:40:25; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;34238
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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
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11; 2407.2; 17-SEP-2008 01:09:03; Bright; 41.0; 93; 53Bet Peg ; 2.52; 3100;occ; 82; 0;34239
12; 2523.8; 17-SEP-2008 01:11:00; Bright; 44.5; 58; 21Alp And ; 2.07; 11000;occ; 89; 0;34239
13; 3018.9; 17-SEP-2008 01:19:15; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;34239
14; 3124.4; 17-SEP-2008 01:21:00; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;34239
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6; 647.9; 17-SEP-2008 02:20:20; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;34240
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13; 3018.6; 17-SEP-2008 02:59:50; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;34240
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4; -463.4; 17-SEP-2008 03:42:24; Dark ; 65.5; 1; 9Alp CMA ; -1.44; 11000;occ; 131; 0;34240
5; -335.5; 17-SEP-2008 03:44:32; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;34240
6; -110.8; 17-SEP-2008 03:48:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34240
7; 36.0; 17-SEP-2008 03:50:44; Dark ; 56.0; 2; Alp Car ; -0.74; 7000;occ; 112; 0;34241
8; 648.6; 17-SEP-2008 04:00:56; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;34241
9; 734.4; 17-SEP-2008 04:02:22; Dark ; 43.0; 9; Alp Eri ; 0.45; 24000;occ; 86; 0;34241
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11; 1530.7; 17-SEP-2008 04:15:38; Dark ; 57.0; 52; 16Bet Cet ; 2.04; 4500;occ; 114; 0;34241
12; 2176.3; 17-SEP-2008 04:26:24; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;34241
13; 2406.9; 17-SEP-2008 04:30:15; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;34241
14; 2522.7; 17-SEP-2008 04:32:10; Bright; 45.5; 58; 21Alp And ; 2.07; 11000;occ; 91; 0;34241
15; 3018.2; 17-SEP-2008 04:40:26; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34241
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 4; -462.2; 17-SEP-2008 05:23:02; Dark ; 67.0; 1; 9Alp CMA ; -1.44; 11000;occ; 134; 0;34241
 5; -334.6; 17-SEP-2008 05:25:09; Dark ; 45.5; 23; 21Eps CMA ; 1.50; 26000;occ; 91; 0;34241
 6; -109.9; 17-SEP-2008 05:28:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34241
 7; 36.6; 17-SEP-2008 05:31:20; Dark ; 42.5; 2; Alp Car ; -0.74; 7000;occ; 85; 0;34242
 8; 649.1; 17-SEP-2008 05:41:33; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;34242
 9; 734.9; 17-SEP-2008 05:42:59; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;34242
 10; 1076.7; 17-SEP-2008 05:48:40; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;34242
 11; 1530.8; 17-SEP-2008 05:56:15; Dark ; 54.5; 52; 16Bet Cet ; 2.04; 4500;occ; 109; 0;34242
 12; 2176.2; 17-SEP-2008 06:07:00; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;34242
 13; 2406.7; 17-SEP-2008 06:10:50; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;34242
 14; 2522.1; 17-SEP-2008 06:12:46; Bright; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;34242
 15; 3017.8; 17-SEP-2008 06:21:02; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;34242
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 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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 7; 1080.9; 18-SEP-2008 00:15:20; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;34253
 8; 1532.2; 18-SEP-2008 00:22:51; Dark ; 56.0; 52; 16Bet Cet ; 2.04; 4500;occ; 112; 0;34253
 9; 2174.4; 18-SEP-2008 00:33:33; Bright; 39.5; 90; 54Alp Peg ; 2.49; 11000;occ; 79; 0;34253
 10; 2404.1; 18-SEP-2008 00:37:23; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;34253
 11; 2515.0; 18-SEP-2008 00:39:14; Bright; 45.0; 58; 21Alp And ; 2.07; 11000;occ; 90; 0;34253
 12; 3012.9; 18-SEP-2008 00:47:32; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;34253
 13; 3116.8; 18-SEP-2008 00:49:16; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;34253
 14; 4486.3; 18-SEP-2008 01:12:05; Bright; 46.5; 24; 66Alp Gem ; 1.58; 10200;occ; 93; 0;34253
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 3; 1078.3; 17-SEP-2008 12:31:06; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;34246
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 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
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6; -97.3; 18-SEP-2008 03:16:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34254
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13; 2403.8; 18-SEP-2008 03:58:35; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;34255
14; 2514.0; 18-SEP-2008 04:00:25; Bright; 45.0; 58; 21Alp And ; 2.07; 11000;occ; 90; 0;34255
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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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2; 1534.0; 18-SEP-2008 20:30:04; Dark ; 56.0; 52; 16Bet Cet ; 2.04; 4500;occ; 112; 0;34265
3; 2173.1; 18-SEP-2008 20:40:43; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;34265
4; 2401.8; 18-SEP-2008 20:44:32; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;34265
5; 2508.0; 18-SEP-2008 20:46:18; Bright; 43.5; 58; 21Alp And ; 2.07; 11000;occ; 87; 0;34265
6; 3008.1; 18-SEP-2008 20:54:38; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;34265
7; 3110.5; 18-SEP-2008 20:56:21; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;34265
8; 4488.1; 18-SEP-2008 21:19:19; Bright; 45.5; 24; 66Alp Gem ; 1.58; 10200;occ; 91; 0;34265
9; 5029.0; 18-SEP-2008 21:28:19; Dark ; 65.5; 8; 10Alp CMI ; 0.40; 6500;occ; 131; 0;34265
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2; -434.3; 18-SEP-2008 21:37:52; Dark ; 62.5; 1; 9Alp CMA ; -1.44; 11000;occ; 125; 0;34265
3; -313.0; 18-SEP-2008 21:39:53; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;34265
4; -86.5; 18-SEP-2008 21:43:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34265
5; 52.0; 18-SEP-2008 21:45:58; Dark ; 53.5; 2; Alp Car ; -0.74; 7000;occ; 107; 0;34266
6; 746.5; 18-SEP-2008 21:57:33; Dark ; 48.5; 9; Alp Eri ; 0.45; 24000;occ; 97; 0;34266
7; 1085.9; 18-SEP-2008 22:03:12; Dark ; 40.5; 84; Alp Phe ; 2.40; 4500;occ; 81; 0;34266
8; 1534.1; 18-SEP-2008 22:10:40; Dark ; 55.0; 52; 16Bet Cet ; 2.04; 4500;occ; 110; 0;34266
9; 2172.9; 18-SEP-2008 22:21:19; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;34266
10; 2401.6; 18-SEP-2008 22:25:08; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;34266
11; 2507.3; 18-SEP-2008 22:26:54; Bright; 44.5; 58; 21Alp And ; 2.07; 11000;occ; 89; 0;34266
12; 3007.7; 18-SEP-2008 22:35:14; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;34266
13; 3110.1; 18-SEP-2008 22:36:56; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;34266
14; 4488.2; 18-SEP-2008 22:59:54; Bright; 46.5; 24; 66Alp Gem ; 1.58; 10200;occ; 93; 0;34266
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3; -312.0; 18-SEP-2008 23:20:30; Dark ; 49.0; 23; 21Eps CMA ; 1.50; 26000;occ; 98; 0;34266
4; -85.5; 18-SEP-2008 23:24:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34266
5; 52.6; 18-SEP-2008 23:26:35; Dark ; 55.0; 2; Alp Car ; -0.74; 7000;occ; 110; 0;34267
6; 746.9; 18-SEP-2008 23:38:09; Dark ; 52.0; 9; Alp Eri ; 0.45; 24000;occ; 104; 0;34267
7; 1086.1; 18-SEP-2008 23:43:48; Dark ; 43.0; 84; Alp Phe ; 2.40; 4500;occ; 86; 0;34267
8; 1534.3; 18-SEP-2008 23:51:17; Dark ; 55.5; 52; 16Bet Cet ; 2.04; 4500;occ; 111; 0;34267

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12; 3007.2; 19-SEP-2008 00:15:49; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;34267
13; 3109.4; 19-SEP-2008 00:17:32; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;34267
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3; -84.5; 19-SEP-2008 01:04:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34267
4; 53.2; 19-SEP-2008 01:07:11; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;34268
5; 747.5; 19-SEP-2008 01:18:46; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;34268
6; 1086.6; 19-SEP-2008 01:24:25; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 0;34268
7; 1534.4; 19-SEP-2008 01:31:52; Dark ; 54.5; 52; 16Bet Cet ; 2.04; 4500;occ; 109; 0;34268
8; 2172.7; 19-SEP-2008 01:42:31; Bright; 39.0; 90; 54Alp Peg ; 2.49; 11000;occ; 78; 0;34268
9; 2401.2; 19-SEP-2008 01:46:19; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;34268
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11; 3006.8; 19-SEP-2008 01:56:25; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34268
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3; -562.4; 19-SEP-2008 02:37:32; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;34268
4; -430.7; 19-SEP-2008 02:39:43; Dark ; 61.5; 1; 9Alp CMA ; -1.44; 11000;occ; 123; 0;34268
5; -310.1; 19-SEP-2008 02:41:44; Dark ; 47.5; 23; 21Eps CMA ; 1.50; 26000;occ; 95; 0;34268
6; -83.5; 19-SEP-2008 02:45:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34268
7; 53.9; 19-SEP-2008 02:47:48; Dark ; 49.5; 2; Alp Car ; -0.74; 7000;occ; 99; 0;34269
8; 748.0; 19-SEP-2008 02:59:22; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;34269
9; 1087.0; 19-SEP-2008 03:05:01; Dark ; 42.5; 84; Alp Phe ; 2.40; 4500;occ; 85; 0;34269
10; 1534.7; 19-SEP-2008 03:12:29; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;34269
11; 2172.7; 19-SEP-2008 03:23:07; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;34269
12; 2401.1; 19-SEP-2008 03:26:55; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;34269
13; 2505.7; 19-SEP-2008 03:28:40; Bright; 44.0; 58; 21Alp And ; 2.07; 11000;occ; 88; 0;34269
14; 3006.5; 19-SEP-2008 03:37:01; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;34269
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5; -309.2; 19-SEP-2008 04:22:21; Dark ; 51.0; 23; 21Eps CMA ; 1.50; 26000;occ; 102; 0;34269
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7; 54.5; 19-SEP-2008 04:28:24; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;34270
8; 748.5; 19-SEP-2008 04:39:58; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;34270
9; 1087.5; 19-SEP-2008 04:45:37; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;34270
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12; 2400.9; 19-SEP-2008 05:07:31; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;34270
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6; -81.5; 19-SEP-2008 06:06:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34270
7; 55.2; 19-SEP-2008 06:09:01; Dark ; 42.0; 2; Alp Car ; -0.74; 7000;occ; 84; 0;34271
8; 748.9; 19-SEP-2008 06:20:35; Dark ; 40.5; 9; Alp Eri ; 0.45; 24000;occ; 81; 0;34271
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11; 2172.4; 19-SEP-2008 06:44:18; Bright; 38.0; 90; 54Alp Peg ; 2.49; 11000;occ; 76; 0;34271
12; 2400.7; 19-SEP-2008 06:48:07; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;34271
13; 2504.6; 19-SEP-2008 06:49:51; Bright; 43.0; 58; 21Alp And ; 2.07; 11000;occ; 86; 0;34271
14; 3005.7; 19-SEP-2008 06:58:12; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;34271
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 3; 1091.0; 19-SEP-2008 21:31:40; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;34280
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 5; 2171.3; 19-SEP-2008 21:49:41; Bright; 37.5; 90; 54Alp Peg ; 2.49; 11000;occ; 75; 0;34280
 6; 2398.9; 19-SEP-2008 21:53:28; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;34280
 7; 2499.4; 19-SEP-2008 21:55:09; Bright; 44.5; 58; 21Alp And ; 2.07; 11000;occ; 89; 0;34280
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 9; 3102.5; 19-SEP-2008 22:05:12; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;34280
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 4; -71.5; 19-SEP-2008 22:52:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34280
 5; 61.7; 19-SEP-2008 22:55:07; Dark ; 56.5; 2; Alp Car ; -0.74; 7000;occ; 113; 0;34281
 6; 753.5; 19-SEP-2008 23:06:39; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;34281
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 4; -70.5; 20-SEP-2008 00:33:31; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;34281
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12; 2390.6; 24-SEP-2008 05:50:28; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;34342
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4; 2389.7; 24-SEP-2008 20:55:50; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;34351
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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
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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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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
7; 5541.9; 26-SEP-2008 15:43:21; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;34376
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3; 2166.4; 26-SEP-2008 16:27:41; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;34377
4; 2387.8; 26-SEP-2008 16:31:23; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;34377
5; 2968.0; 26-SEP-2008 16:41:03; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34377
6; 3056.3; 26-SEP-2008 16:42:31; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;34377
7; 4586.5; 26-SEP-2008 17:08:01; Bright; 53.5; 17; 78Bet Gem ; 1.16; 4500;occ; 107; 0;34377
8; 5542.6; 26-SEP-2008 17:23:58; Dark ; 47.0; 132; 15Rho Pup ; 2.80; 6900;occ; 94; 0;34377
9; 5745.7; 26-SEP-2008 17:27:21; Dark ; 44.5; 88; 31Eta CMA ; 2.45; 20000;occ; 89; 0;34377
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11; 5953.0; 26-SEP-2008 17:30:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34377
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4; 2387.7; 26-SEP-2008 18:11:59; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;34378
5; 2967.6; 26-SEP-2008 18:21:39; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34378
6; 3055.8; 26-SEP-2008 18:23:07; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34378
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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9; 5746.6; 26-SEP-2008 19:07:58; Dark ; 45.0; 88; 31Eta CMA ; 2.45; 20000;occ; 90; 0;34378
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3; 2166.5; 27-SEP-2008 20:57:52; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;34394
4; 2386.9; 27-SEP-2008 21:01:33; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;34394
5; 2962.8; 27-SEP-2008 21:11:09; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;34394

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7; 3429.1; 27-SEP-2008 21:18:55; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;34394
8; 3900.5; 27-SEP-2008 21:26:46; Bright; 34.5; 36; 50Alp UMa ; 1.80; 6300;occ; 69; 0;34394
9; 3990.0; 27-SEP-2008 21:28:16; Bright; 33.5; 82; 48Bet UMa ; 2.37; 10600;occ; 67; 0;34394
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4; 1586.4; 27-SEP-2008 07:23:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
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3; 1948.4; 27-SEP-2008 07:29:27; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
4; 2053.1; 27-SEP-2008 07:31:11; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
5; 2361.5; 27-SEP-2008 07:36:20; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
6; 2630.7; 27-SEP-2008 07:40:49; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
7; 2869.5; 27-SEP-2008 07:44:48; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
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9; 3278.0; 27-SEP-2008 07:51:36; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
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21; 7105.6; 27-SEP-2008 08:55:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
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3; 1947.4; 27-SEP-2008 09:10:02; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
4; 2053.1; 27-SEP-2008 09:11:47; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
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6; 2630.3; 27-SEP-2008 09:21:25; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
7; 2870.4; 27-SEP-2008 09:25:25; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
8; 3107.3; 27-SEP-2008 09:29:22; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
9; 3277.6; 27-SEP-2008 09:32:12; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
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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
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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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6; 4527.3; 27-SEP-2008 11:33:38; Bright; 85.5; 166; 17Eps Leo ; 2.98; 6000;occ; 171; 0;34388
7; 5092.7; 27-SEP-2008 11:43:03; Dark ; 99.0; 48; 30Alp Hya ; 1.98; 4100;occ; 198; 0;34388
8; 5492.8; 27-SEP-2008 11:49:43; Dark ; 100.0; 132; 15Rho Pup ; 2.80; 6900;occ; 200; 0;34388
9; 5674.5; 27-SEP-2008 11:52:45; Dark ; 97.5; 65; Lam Vel ; 2.20; 4400;occ; 195; 0;34388

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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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 16; 6112.1; 29-SEP-2008 17:39:12; Dark ; 48.0; 161; Tau Pup ; 2.93; 4500;occ; 96; 0;34420
 17; 6196.2; 29-SEP-2008 17:40:36; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;34420
 18; 6762.6; 29-SEP-2008 17:50:03; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;34420
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 5; 79.7; 30-SEP-2008 02:02:15; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;34426
 6; 163.8; 30-SEP-2008 02:03:39; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;34426
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 8; 816.1; 30-SEP-2008 02:14:32; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;34426
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 13; 2953.8; 30-SEP-2008 02:50:09; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;34426
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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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