

GOMOS Daily Report 20-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	23SEP2008 12:53:38
Data source version	GOMOS/5.00
Start time of products	20SEP2008 00:08:55
Stop time of products	20SEP2008 05:54:42
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)

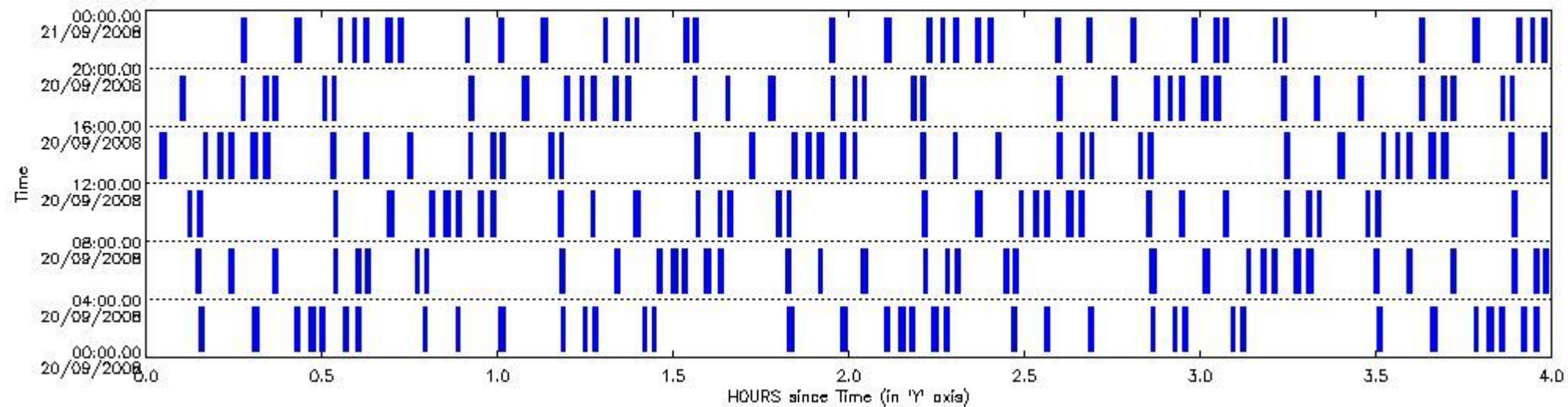
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

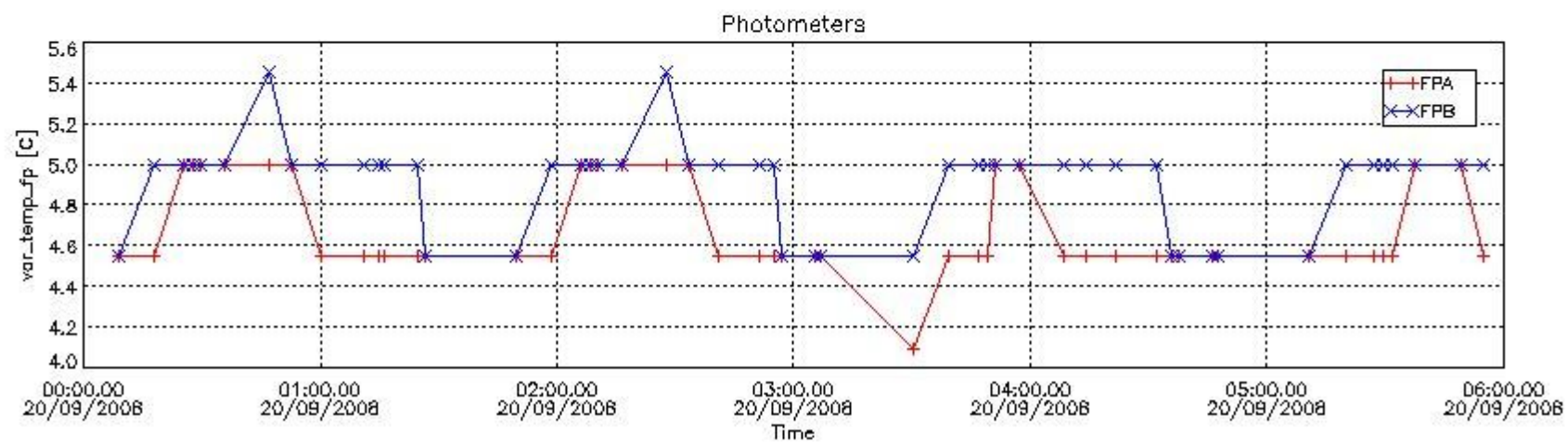
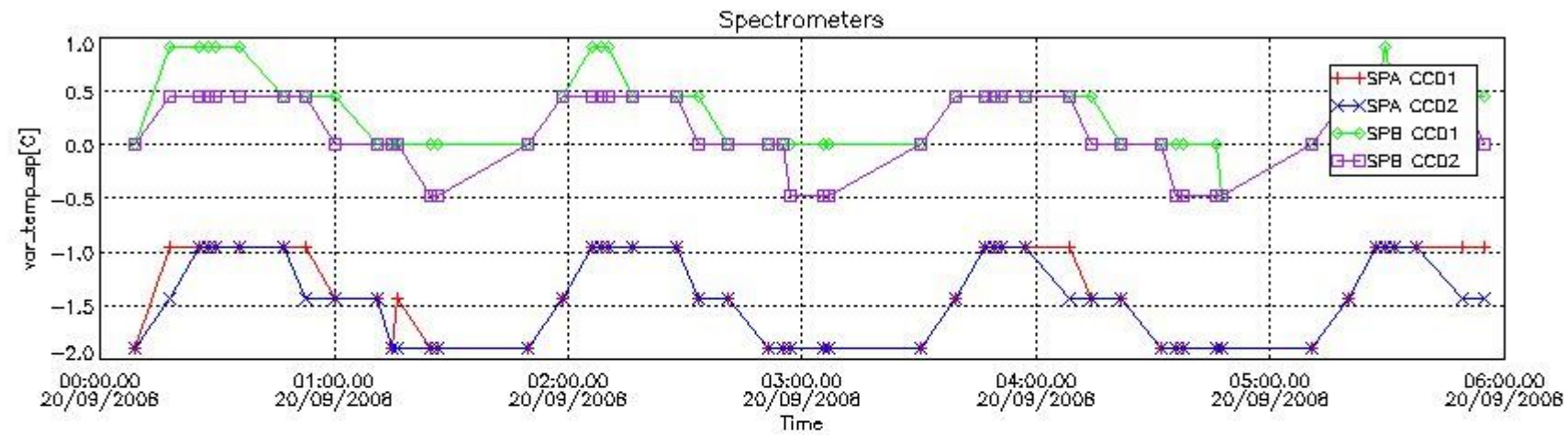
No missing products.

2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20080920_000855_000000462072_00159_34281_9289.N1	20-SEP-2008 00:08:55	Bright	45.500	24	66Alp Gem	1.5800	10200.	91	34281	No
2	GOM_TRA_1PNPDE20080920_001804_000000662072_00159_34281_9290.N1	20-SEP-2008 00:18:04	Dark	65.500	8	10Alp CMi	0.40000	6500.0	131	34281	No
3	GOM_TRA_1PNPDE20080920_002526_000000432072_00159_34281_9420.N1	20-SEP-2008 00:25:26	Dark	43.000	132	15Rho Pup	2.8030	6900.0	86	34281	No
4	GOM_TRA_1PNPDE20080920_002746_000000622072_00159_34281_9421.N1	20-SEP-2008 00:27:46	Dark	62.000	1	9Alp CMa	-1.4400	11000.	124	34281	No
5	GOM_TRA_1PNPDE20080920_002943_000000482072_00159_34281_9422.N1	20-SEP-2008 00:29:43	Dark	47.500	23	21Eps CMa	1.5020	26000.	95	34281	No
6	GOM_TRA_1PNPDE20080920_003543_000000552072_00160_34282_9423.N1	20-SEP-2008 00:35:43	Dark	55.000	2	Alp Car	-0.73600	7000.0	110	34282	No
7	GOM_TRA_1PNPDE20080920_004715_000000402072_00160_34282_9424.N1	20-SEP-2008 00:47:15	Dark	39.500	9	Alp Eri	0.45300	24000.	79	34282	No
8	GOM_TRA_1PNPDE20080920_005253_000000422072_00160_34282_9425.N1	20-SEP-2008 00:52:53	Straylight	42.000	84	Alp Phe	2.3970	4500.0	84	34282	No
9	GOM_TRA_1PNPDE20080920_010017_000000552072_00160_34282_9426.N1	20-SEP-2008 01:00:17	Twilight_stray	54.500	52	16Bet Cet	2.0370	4500.0	109	34282	No
10	GOM_TRA_1PNPDE20080920_011052_000000392072_00160_34282_9427.N1	20-SEP-2008 01:10:52	Bright	38.500	90	54Alp Peg	2.4870	11000.	77	34282	No
11	GOM_TRA_1PNPDE20080920_011440_000000382072_00160_34282_9428.N1	20-SEP-2008 01:14:40	Bright	38.000	93	53Bet Peg	2.5200	3100.0	76	34282	No
12	GOM_TRA_1PNPDE20080920_011619_000000452072_00160_34282_9429.N1	20-SEP-2008 01:16:19	Bright	44.500	58	21Alp And	2.0730	11000.	89	34282	No

13	GOM_TRA_1PNPDE20080920_012442_000000402072_00160_34282_9430.N1	20-SEP-2008 01:24:42	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	34282	No
14	GOM_TRA_1PNPDE20080920_012623_000000432072_00160_34282_9431.N1	20-SEP-2008 01:26:23	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	34282	No
15	GOM_TRA_1PNPDE20080920_014931_000000532072_00160_34282_9432.N1	20-SEP-2008 01:49:31	Bright	53.000	24	66Alp Gem	1.5800	10200.	106	34282	No
16	GOM_TRA_1PNPDE20080920_015841_000000612072_00160_34282_9433.N1	20-SEP-2008 01:58:41	Dark	60.500	8	10Alp CMi	0.40000	6500.0	121	34282	No
17	GOM_TRA_1PNPDE20080920_020603_000000432072_00160_34282_9555.N1	20-SEP-2008 02:06:03	Dark	42.500	132	15Rho Pup	2.8030	6900.0	85	34282	No
18	GOM_TRA_1PNPDE20080920_020824_000000632072_00160_34282_9556.N1	20-SEP-2008 02:08:24	Dark	63.000	1	9Alp CMa	-1.4400	11000.	126	34282	No
19	GOM_TRA_1PNPDE20080920_021020_000000522072_00160_34282_9557.N1	20-SEP-2008 02:10:20	Dark	52.000	23	21Eps CMa	1.5020	26000.	104	34282	No
20	GOM_TRA_1PNPDE20080920_021620_000000492072_00161_34283_9558.N1	20-SEP-2008 02:16:20	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	34283	No
21	GOM_TRA_1PNPDE20080920_022752_000000442072_00161_34283_9559.N1	20-SEP-2008 02:27:52	Dark	43.500	9	Alp Eri	0.45300	24000.	87	34283	No
22	GOM_TRA_1PNPDE20080920_023329_000000452072_00161_34283_9560.N1	20-SEP-2008 02:33:29	Straylight	44.500	84	Alp Phe	2.3970	4500.0	89	34283	No
23	GOM_TRA_1PNPDE20080920_024054_000000542072_00161_34283_9561.N1	20-SEP-2008 02:40:54	Twilight_and_stray	54.000	52	16Bet Cet	2.0370	4500.0	108	34283	No
24	GOM_TRA_1PNPDE20080920_025128_000000392072_00161_34283_9562.N1	20-SEP-2008 02:51:28	Bright	39.000	90	54Alp Peg	2.4870	11000.	78	34283	No
25	GOM_TRA_1PNPDE20080920_025515_000000402072_00161_34283_9563.N1	20-SEP-2008 02:55:15	Bright	39.500	93	53Bet Peg	2.5200	3100.0	79	34283	No
26	GOM_TRA_1PNPDE20080920_025655_000000452072_00161_34283_9564.N1	20-SEP-2008 02:56:55	Bright	45.000	58	21Alp And	2.0730	11000.	90	34283	No
27	GOM_TRA_1PNPDE20080920_030518_000000372072_00161_34283_9565.N1	20-SEP-2008 03:05:18	Bright	36.500	74	11Bet Cas	2.2680	6600.0	73	34283	No
28	GOM_TRA_1PNPDE20080920_030658_000000382072_00161_34283_9566.N1	20-SEP-2008 03:06:58	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	34283	No
29	GOM_TRA_1PNPDE20080920_033007_000000452072_00161_34283_9724.N1	20-SEP-2008 03:30:07	Bright	45.000	24	66Alp Gem	1.5800	10200.	90	34283	No
30	GOM_TRA_1PNPDE20080920_033917_000000632072_00161_34283_9725.N1	20-SEP-2008 03:39:17	Dark	62.500	8	10Alp CMi	0.40000	6500.0	125	34283	No
31	GOM_TRA_1PNPDE20080920_034639_000000432072_00161_34283_9726.N1	20-SEP-2008 03:46:39	Dark	42.500	132	15Rho Pup	2.8030	6900.0	85	34283	No
32	GOM_TRA_1PNPDE20080920_034901_000000632072_00161_34283_9727.N1	20-SEP-2008 03:49:01	Dark	63.000	1	9Alp CMa	-1.4400	11000.	126	34283	No
33	GOM_TRA_1PNPDE20080920_035057_000000492072_00161_34283_9728.N1	20-SEP-2008 03:50:57	Dark	48.500	23	21Eps CMa	1.5020	26000.	97	34283	No
34	GOM_TRA_1PNPDE20080920_035657_000000522072_00162_34284_9729.N1	20-SEP-2008 03:56:57	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	34284	No
35	GOM_TRA_1PNPDE20080920_040828_000000472072_00162_34284_9730.N1	20-SEP-2008 04:08:28	Dark	46.500	9	Alp Eri	0.45300	24000.	93	34284	No
36	GOM_TRA_1PNPDE20080920_041406_000000472072_00162_34284_9731.N1	20-SEP-2008 04:14:06	Straylight	47.000	84	Alp Phe	2.3970	4500.0	94	34284	No
37	GOM_TRA_1PNPDE20080920_042130_000000562072_00162_34284_9732.N1	20-SEP-2008 04:21:30	Twilight_and_stray	56.000	52	16Bet Cet	2.0370	4500.0	112	34284	No
38	GOM_TRA_1PNPDE20080920_043204_000000392072_00162_34284_9733.N1	20-SEP-2008 04:32:04	Bright	38.500	90	54Alp Peg	2.4870	11000.	77	34284	No
39	GOM_TRA_1PNPDE20080920_043551_000000392072_00162_34284_9734.N1	20-SEP-2008 04:35:51	Bright	38.500	93	53Bet Peg	2.5200	3100.0	77	34284	No
40	GOM_TRA_1PNPDE20080920_043730_000000452072_00162_34284_9735.N1	20-SEP-2008 04:37:30	Bright	44.500	58	21Alp And	2.0730	11000.	89	34284	No
41	GOM_TRA_1PNPDE20080920_044554_000000402072_00162_34284_9736.N1	20-SEP-2008 04:45:54	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	34284	No
42	GOM_TRA_1PNPDE20080920_044734_000000412072_00162_34284_9737.N1	20-SEP-2008 04:47:34	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	34284	No
43	GOM_TRA_1PNPDE20080920_051044_000000452072_00162_34284_9887.N1	20-SEP-2008 05:10:44	Bright	45.000	24	66Alp Gem	1.5800	10200.	90	34284	No
44	GOM_TRA_1PNPDE20080920_051954_000000482072_00162_34284_9888.N1	20-SEP-2008 05:19:54	Dark	48.000	8	10Alp CMi	0.40000	6500.0	96	34284	No
45	GOM_TRA_1PNPDE20080920_052716_000000422072_00162_34284_9889.N1	20-SEP-2008 05:27:16	Dark	42.000	132	15Rho Pup	2.8030	6900.0	84	34284	No
46	GOM_TRA_1PNPDE20080920_052938_000000612072_00162_34284_9890.N1	20-SEP-2008 05:29:38	Dark	61.000	1	9Alp CMa	-1.4400	11000.	122	34284	No
47	GOM_TRA_1PNPDE20080920_053134_000000522072_00162_34284_9891.N1	20-SEP-2008 05:31:34	Dark	51.500	23	21Eps CMa	1.5020	26000.	103	34284	No
48	GOM_TRA_1PNPDE20080920_053733_000000562072_00163_34285_9892.N1	20-SEP-2008 05:37:33	Dark	56.000	2	Alp Car	-0.73600	7000.0	112	34285	No
49	GOM_TRA_1PNPDE20080920_054905_000000492072_00163_34285_9893.N1	20-SEP-2008 05:49:05	Dark	49.000	9	Alp Eri	0.45300	24000.	98	34285	No
50	GOM_TRA_1PNPDE20080920_055442_000000452072_00163_34285_9894.N1	20-SEP-2008 05:54:42	Straylight	44.500	84	Alp Phe	2.3970	4500.0	89	34285	No

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



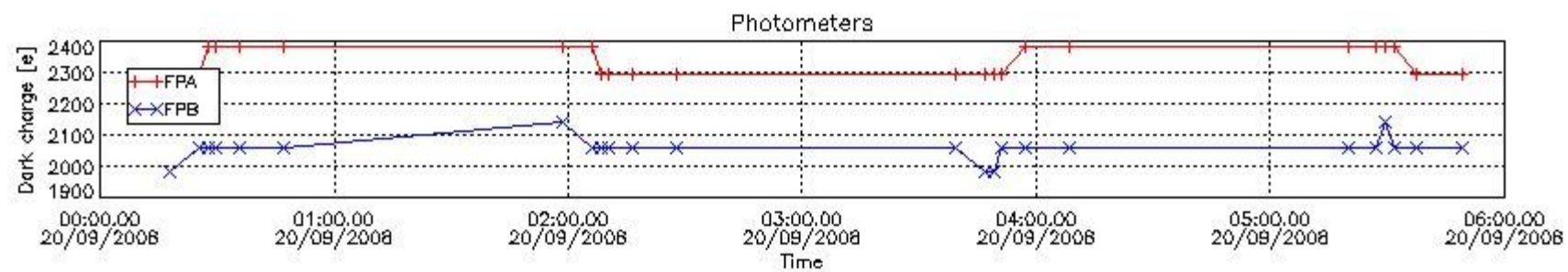
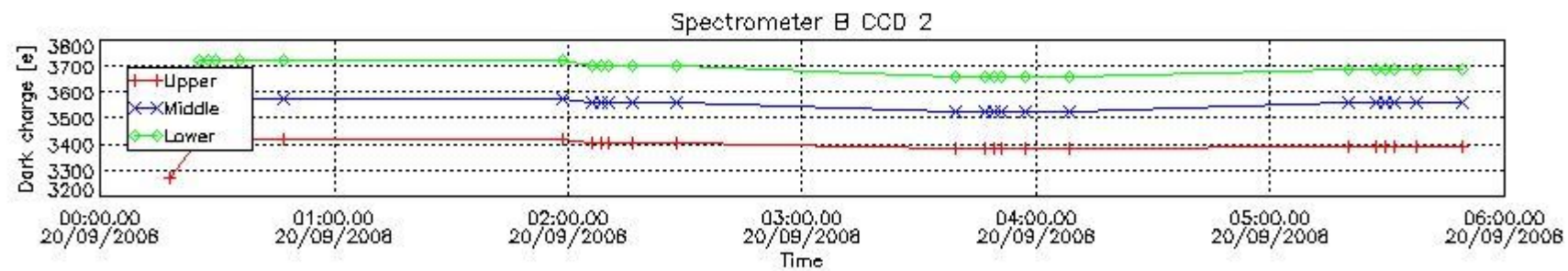
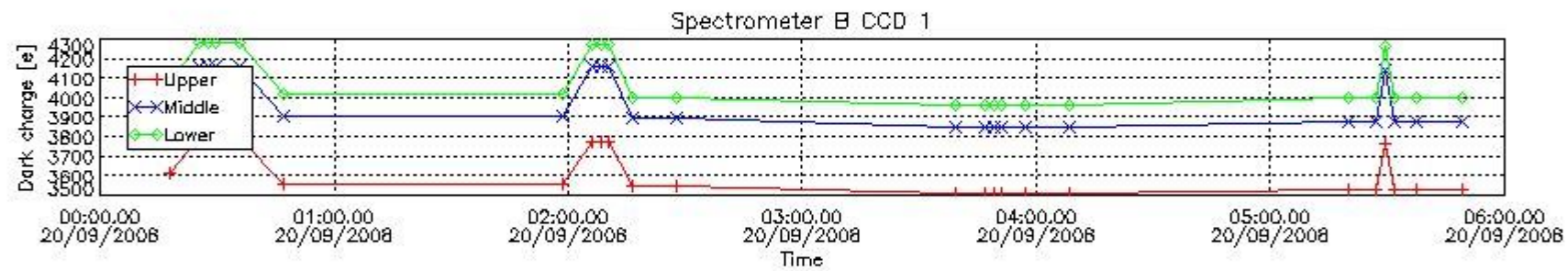
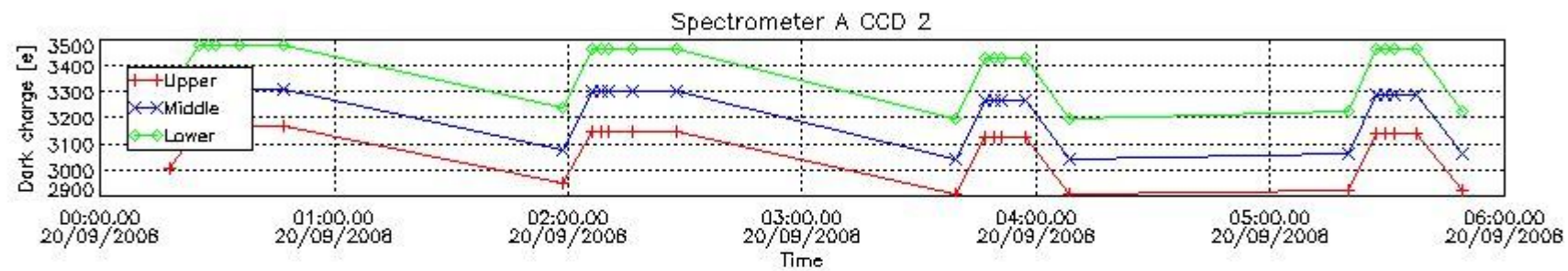
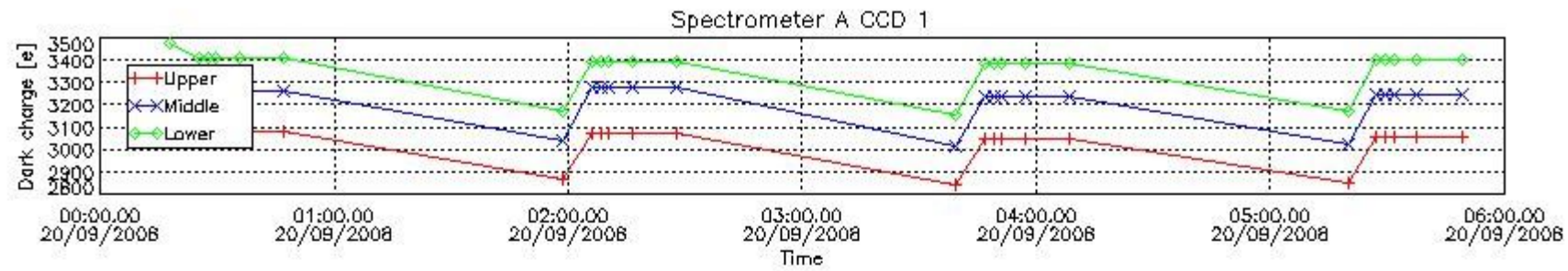
4. Overview of dark signal processing per product

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



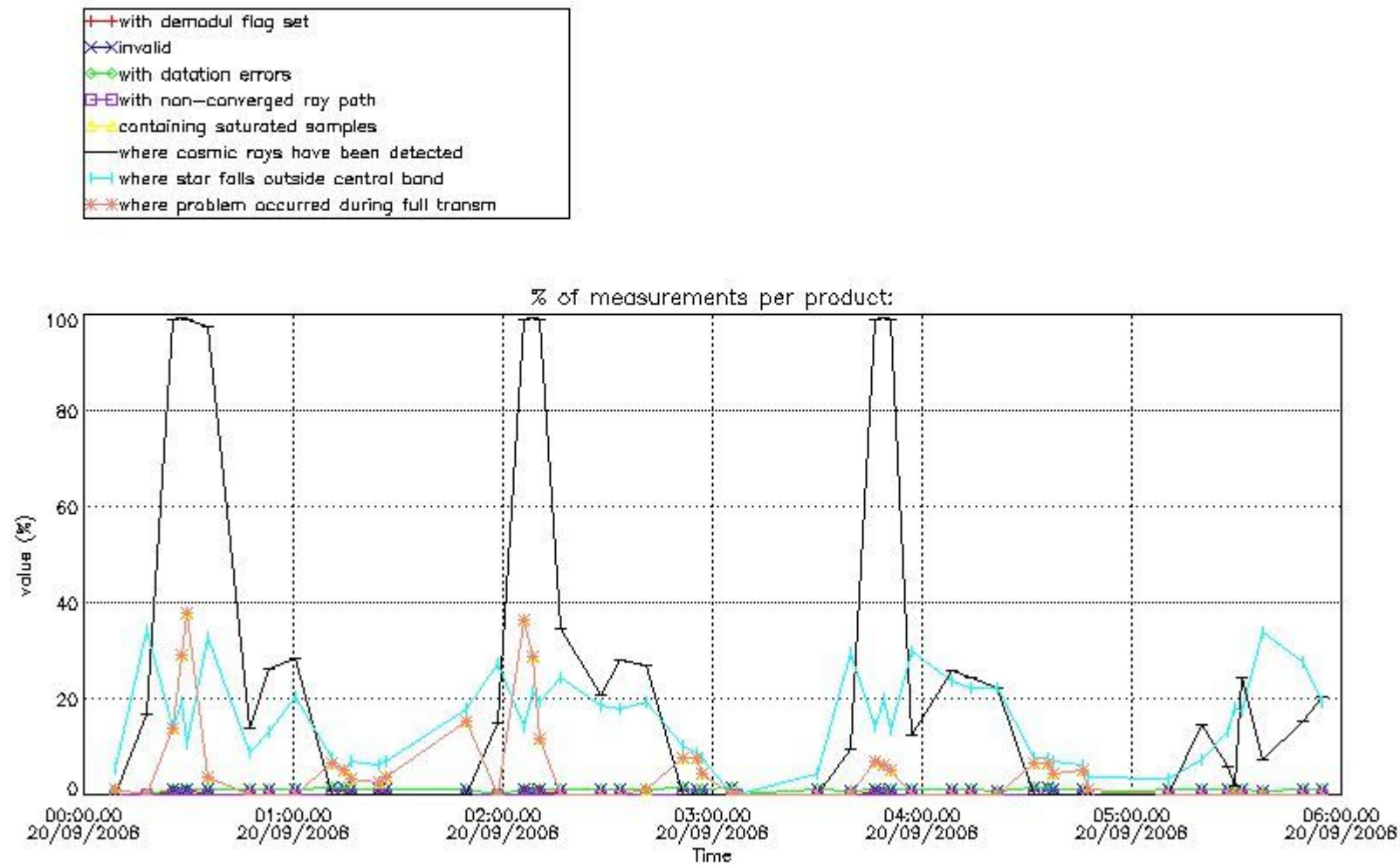
5. Demodulation flag and quality information monitoring

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.

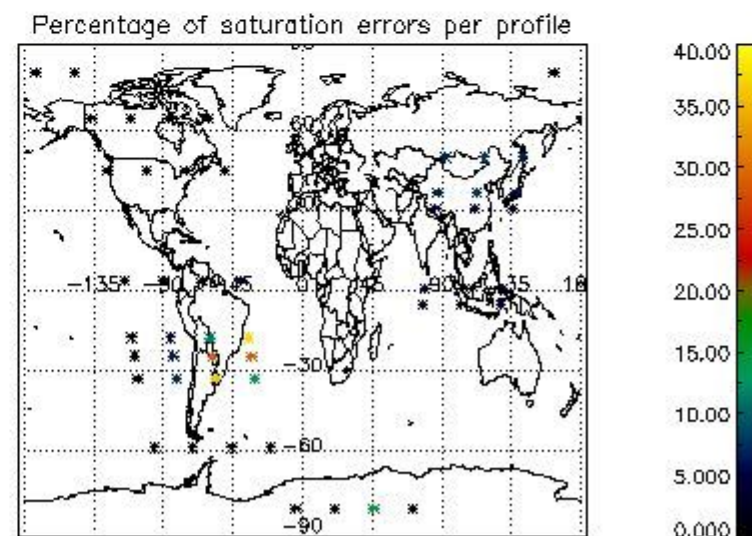
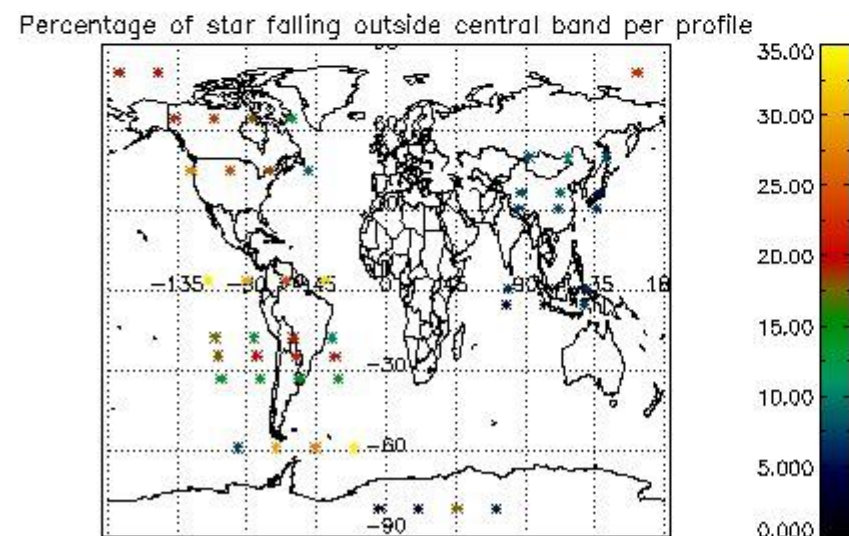
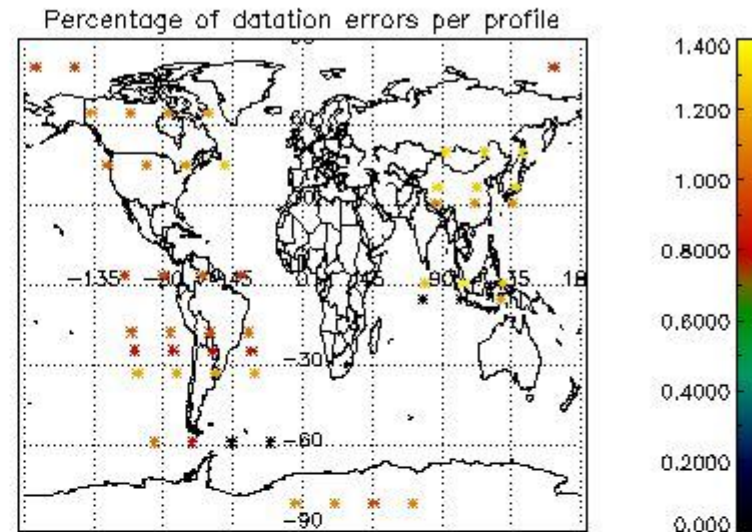
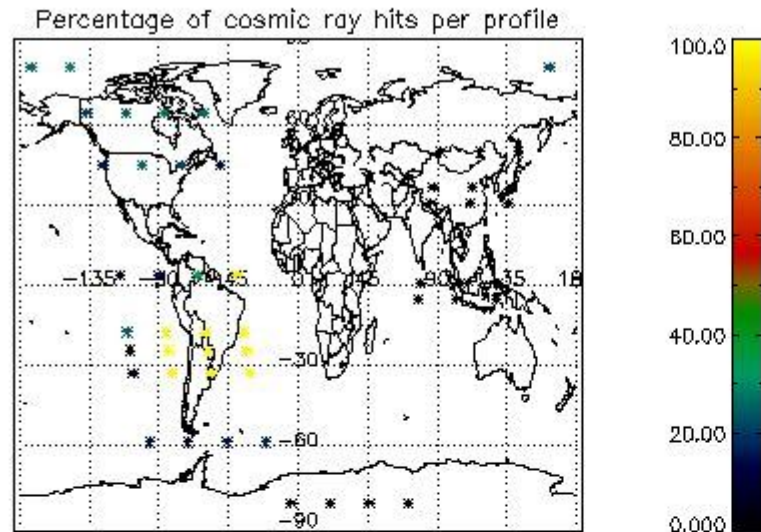
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	44.0000 %
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)



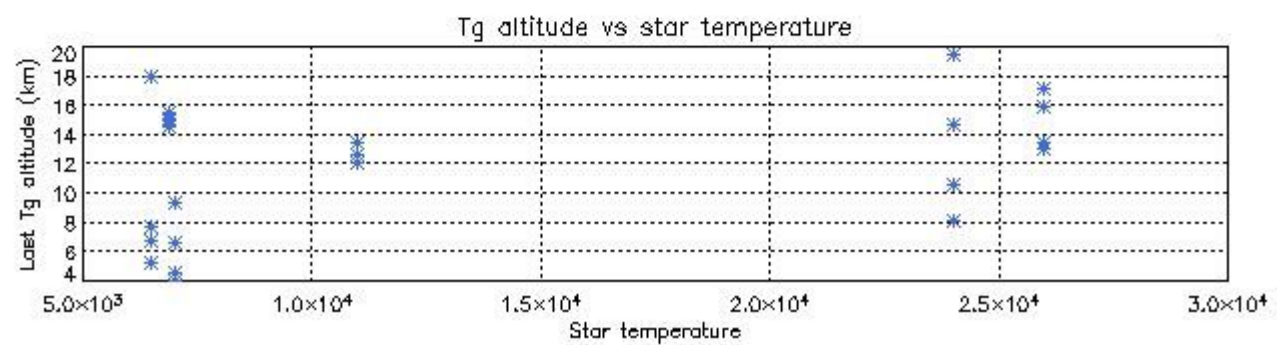
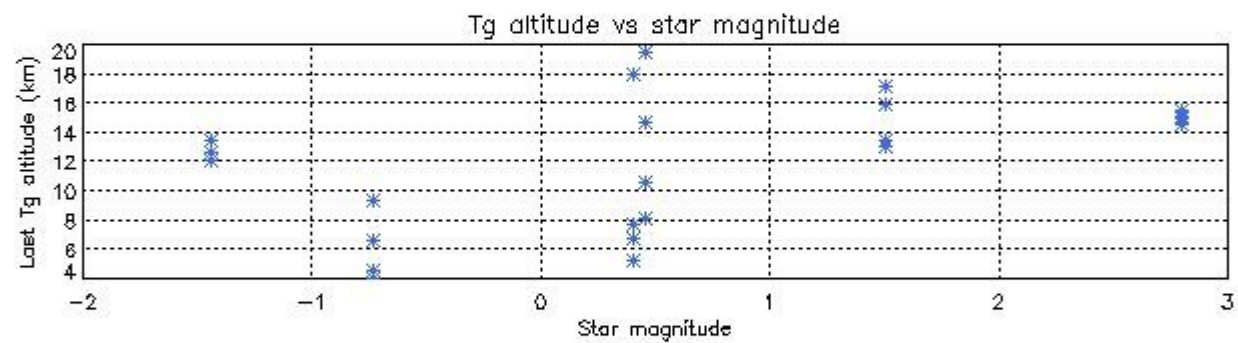
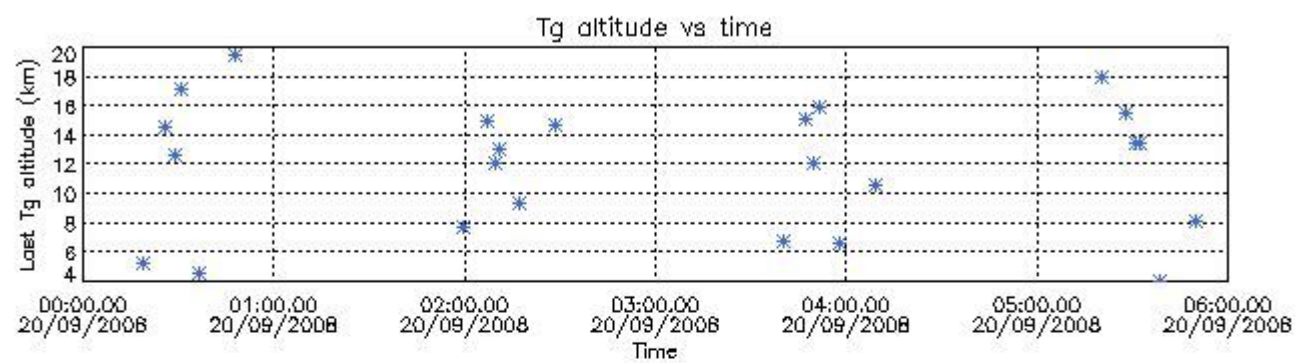
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	11.867	20.898	NaN
St. deviation:	4.4160	3.7297	NaN
Maximum:	19.460	30.625	NaN
Minimum:	4.0570	12.450	NaN
Number of data:	24.000	19.000	NaN

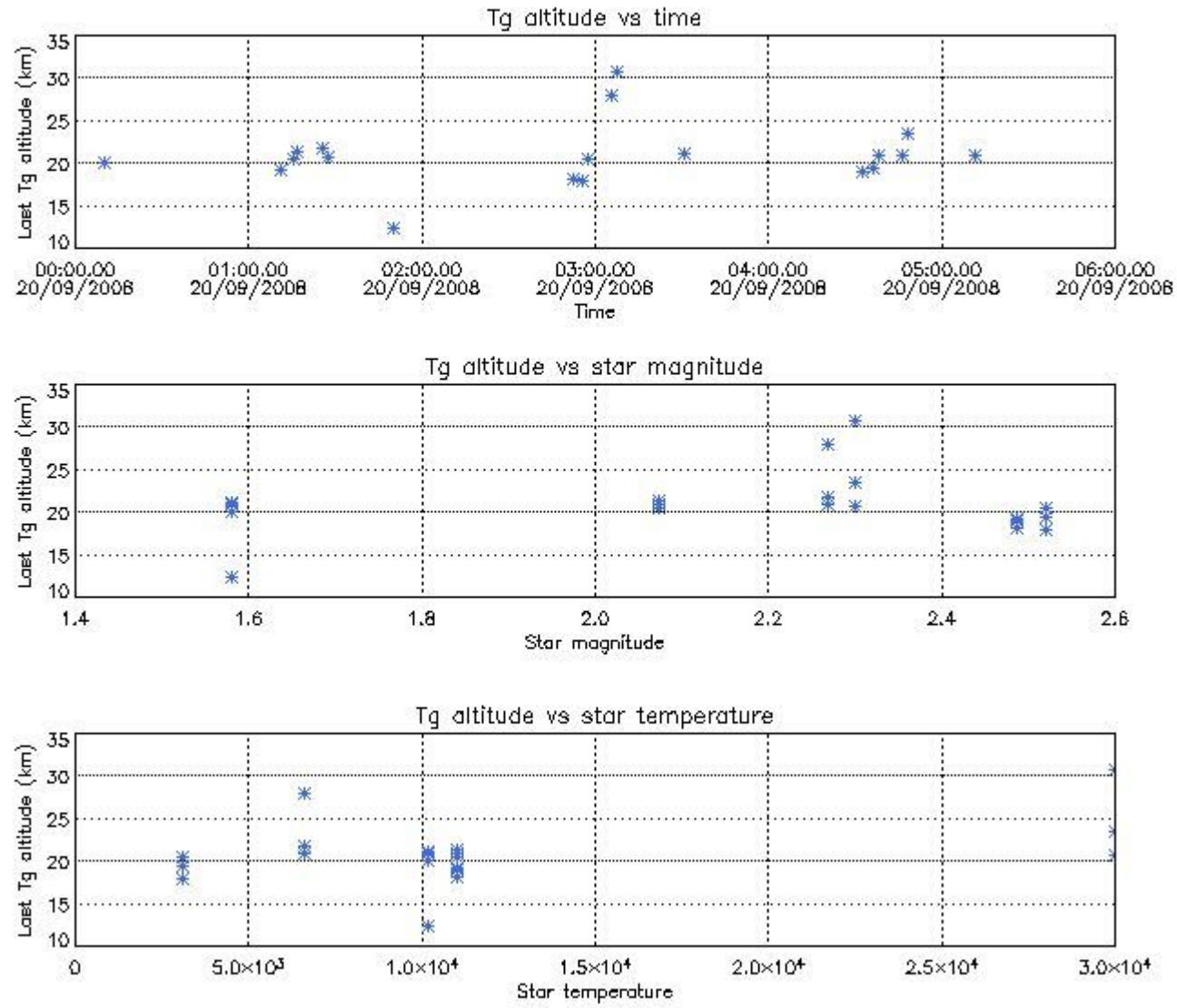
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

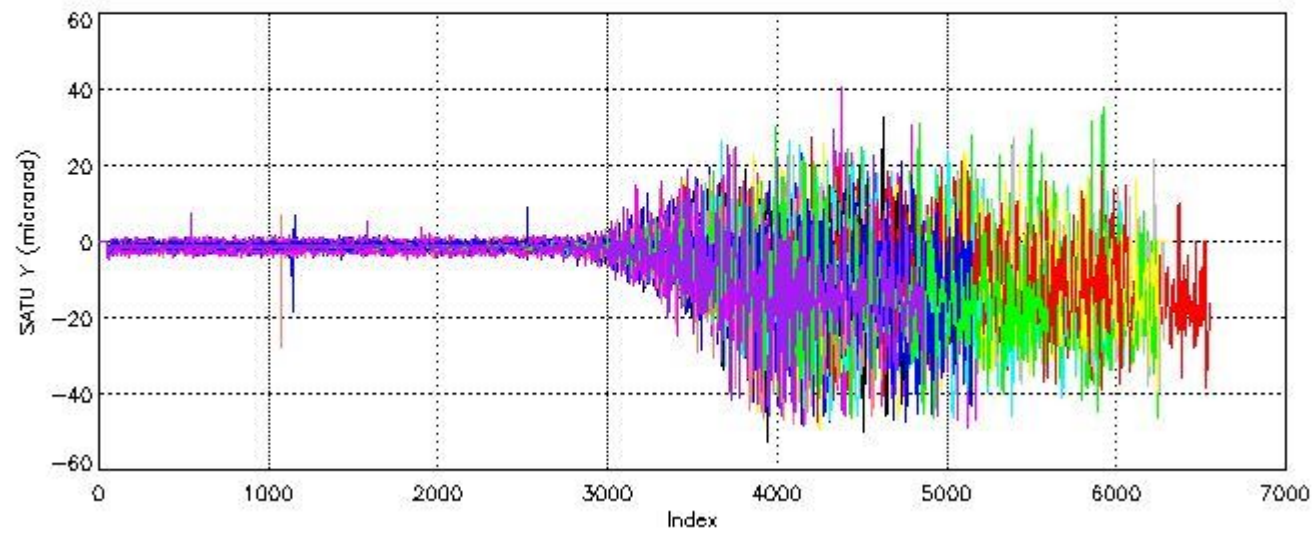
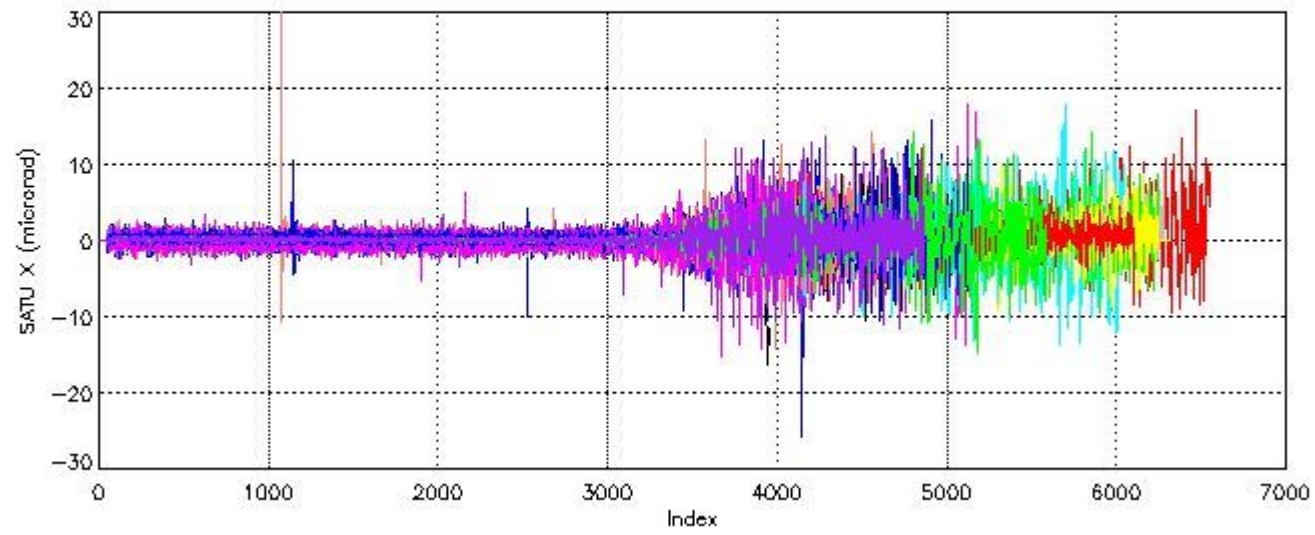


7. Star Acquisition and Tracking Unit (SATU)

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:	0.22269	-1.1833	0.27521	-1.1956
St. deviation:	0.31956	0.51584	0.67331	0.80680
Maximum:	3.3000	7.5000	5.1000	2.5000
Minimum:	-3.2000	-4.5000	-4.0000	-5.2000

Number of data:	25100.	25100.	18400.	18400.
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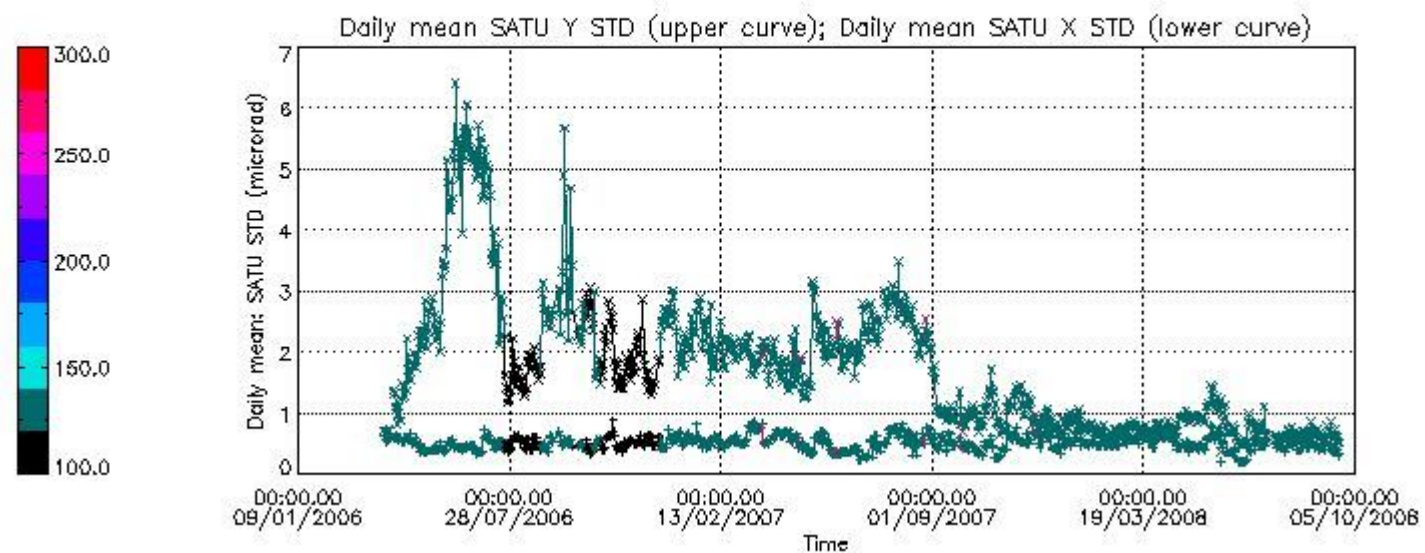
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

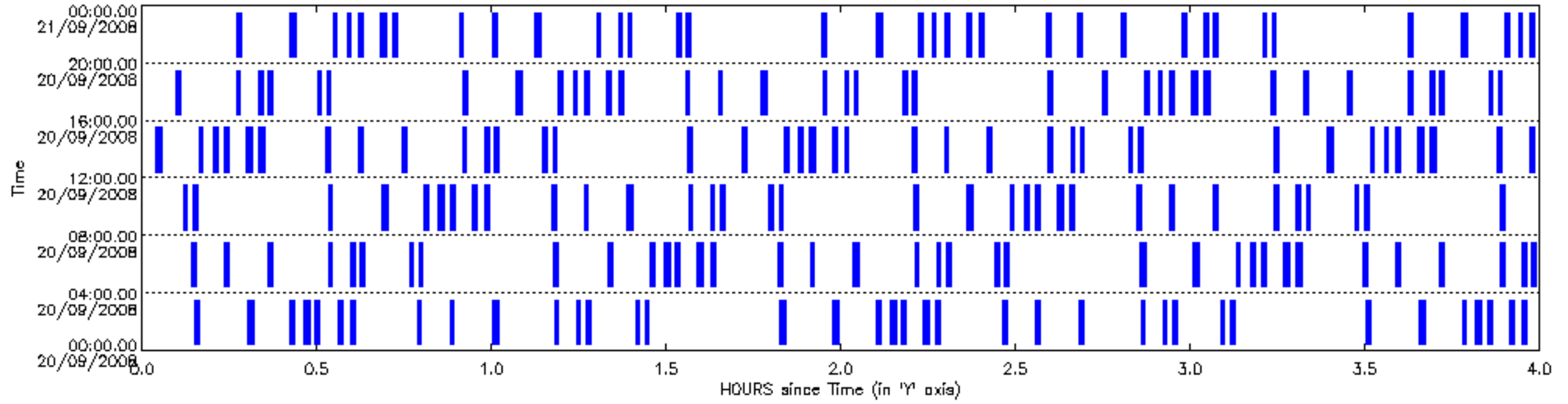
Lower curve: STD of SATU X axis

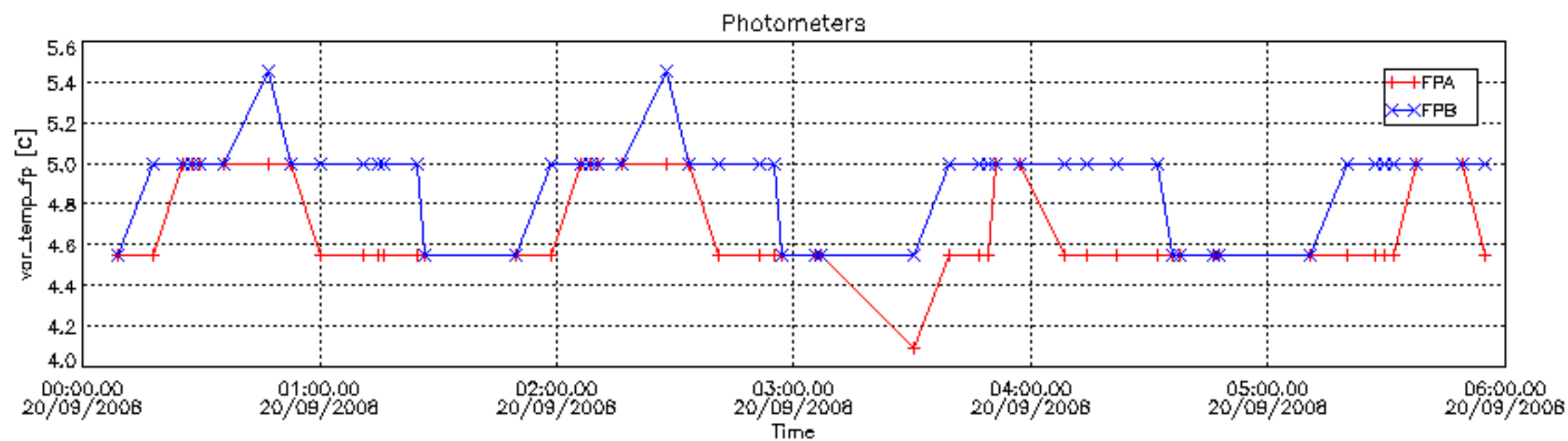
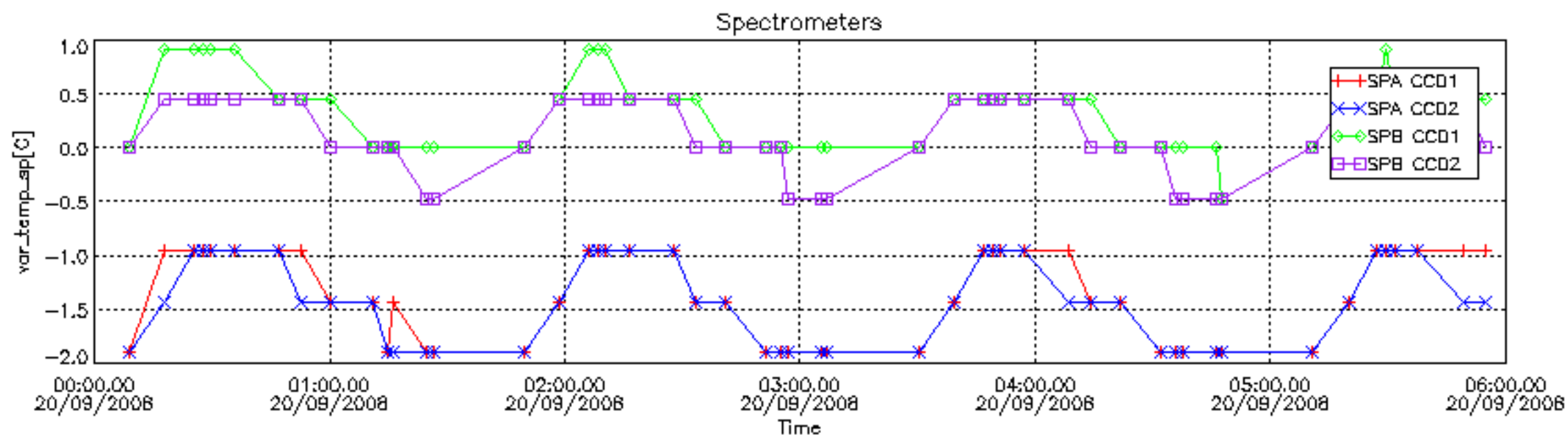


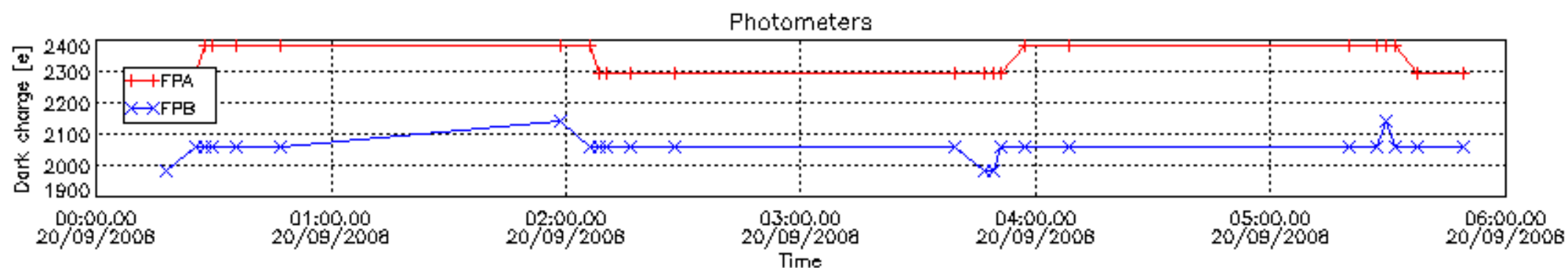
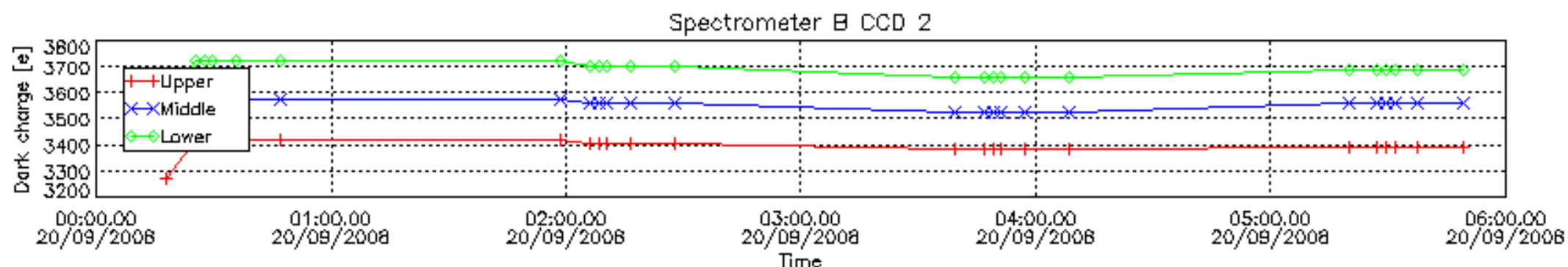
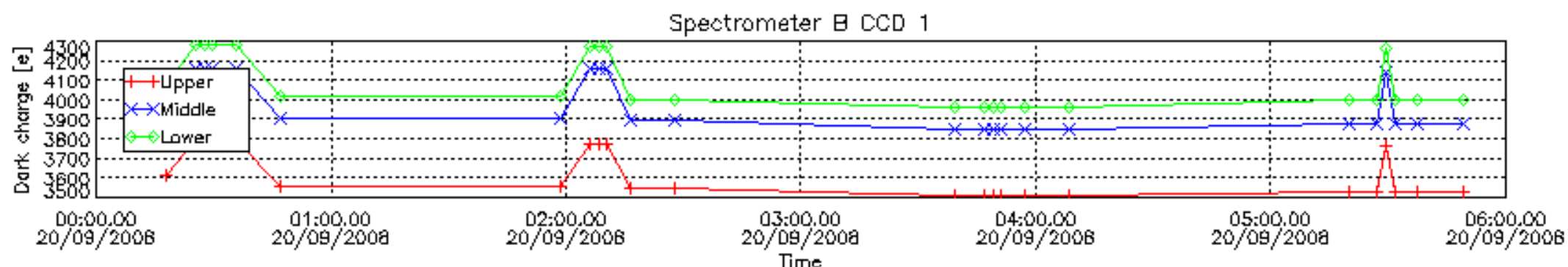
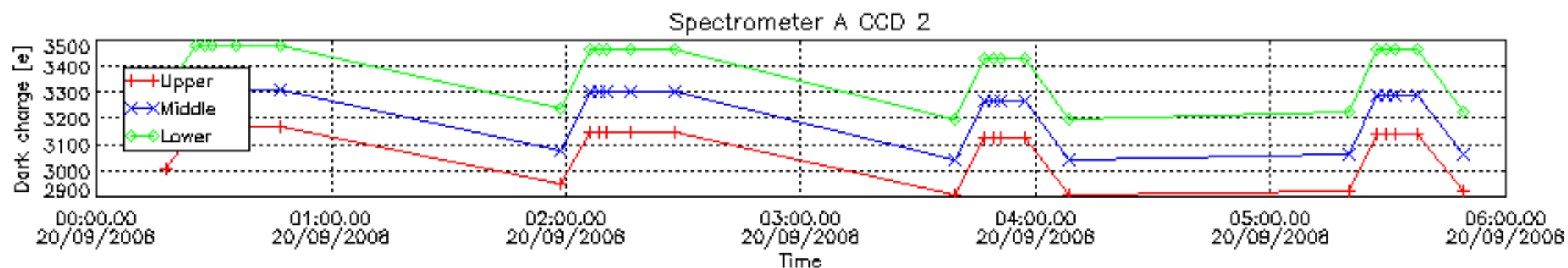
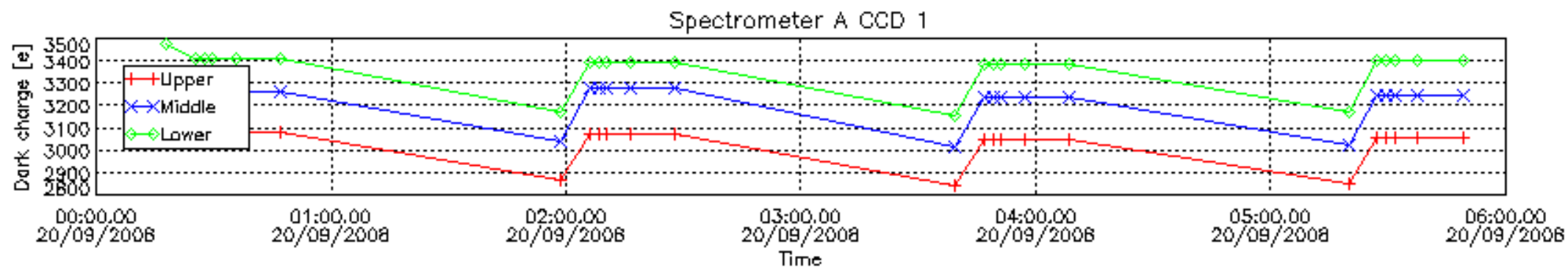
8. Auxiliary Data Files used for the production reported in section 2.4

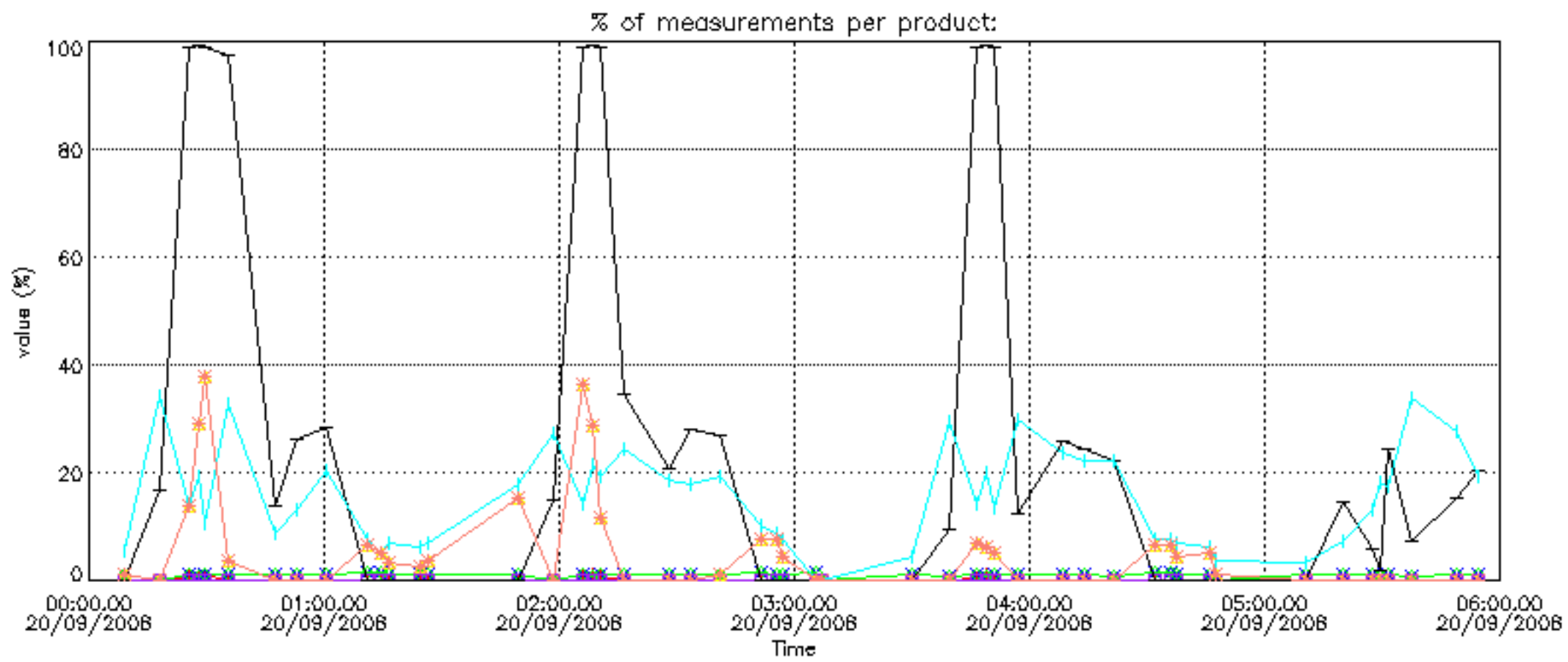
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	20-SEP-2008 00:08:55
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080912_090950_20080910_000000_20100101_000000	1	20-SEP-2008 00:08:55
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	20-SEP-2008 00:08:55
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	20-SEP-2008 00:08:55
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	20-SEP-2008 00:08:55
ECMWF_FILE	AUX_ECF_AXNECM20080919_072112_20080919_210000_20080920_090000	1	20-SEP-2008 00:08:55
ECMWF_FILE	AUX_ECF_AXNECM20080919_190112_20080920_030000_20080920_150000	29	20-SEP-2008 03:30:07
OPTIONAL_ECMWF_FILE	MISSING	1	20-SEP-2008 00:08:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080919_205033_000063762072_00157_34279_6392.N1	1	20-SEP-2008 00:08:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080919_224207_000054192072_00158_34280_6393.N1	3	20-SEP-2008 00:25:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080920_001745_000057382072_00159_34281_6394.N1	17	20-SEP-2008 02:06:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080920_015843_000041442072_00160_34282_6395.N1	29	20-SEP-2008 03:30:07
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080920_031306_000057382072_00161_34283_6396.N1	43	20-SEP-2008 05:10:44

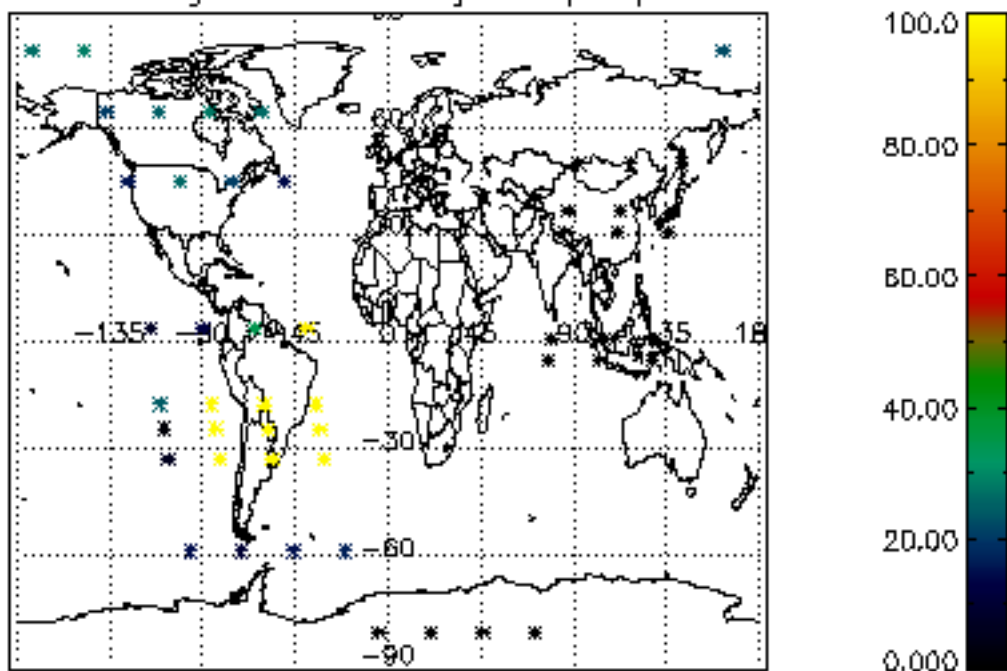




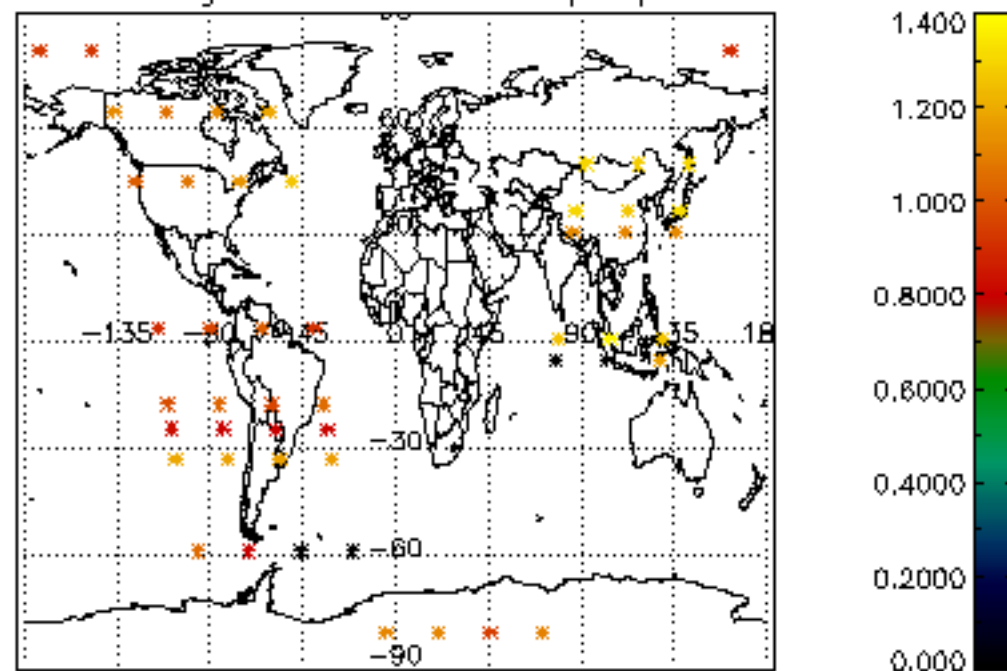




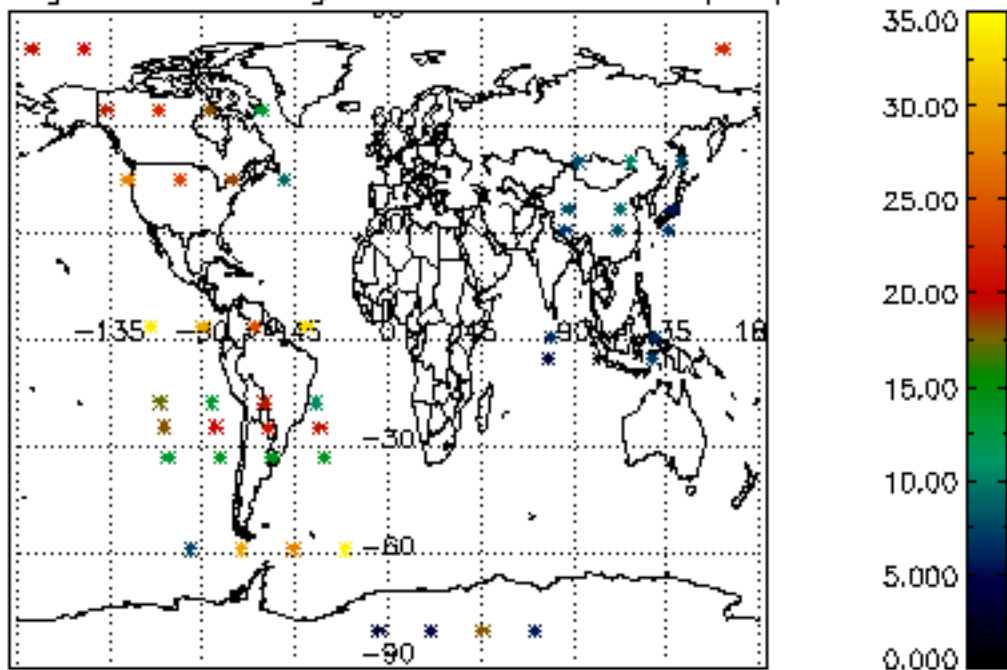
Percentage of cosmic ray hits per profile



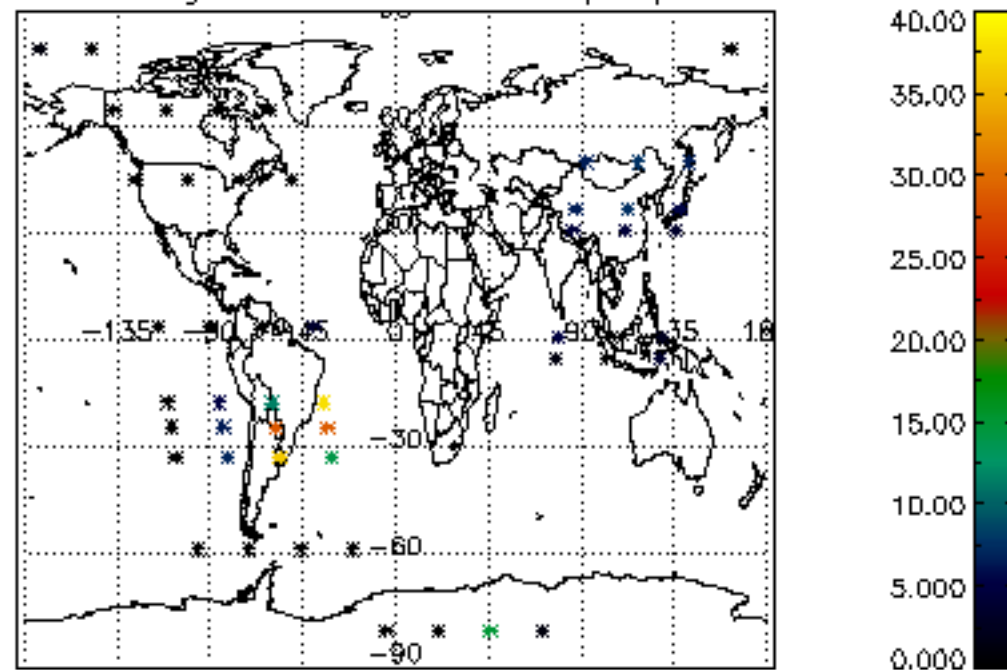
Percentage of datation errors per profile



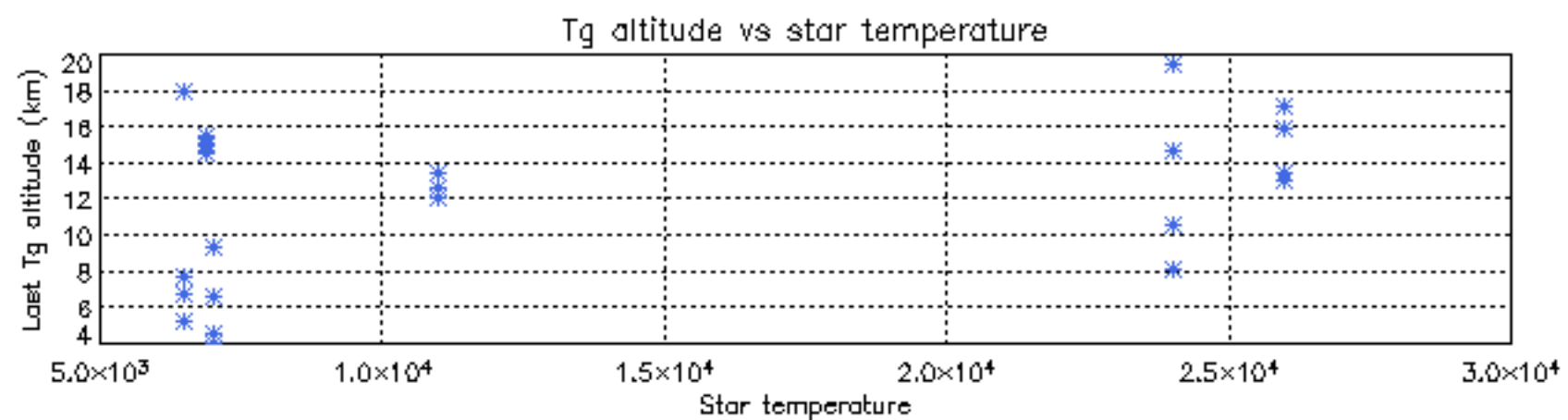
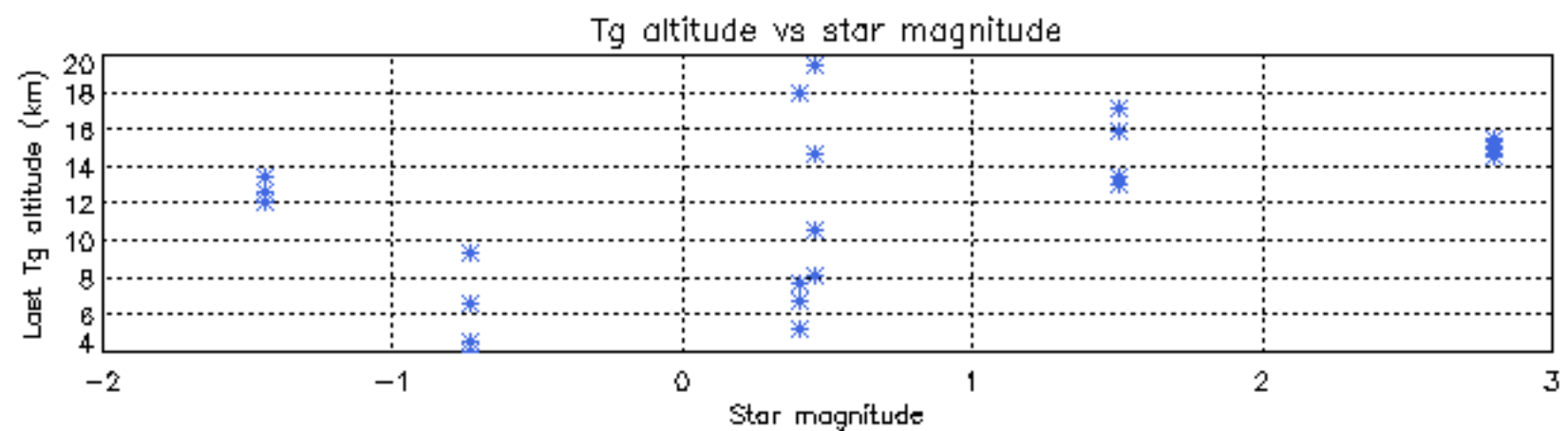
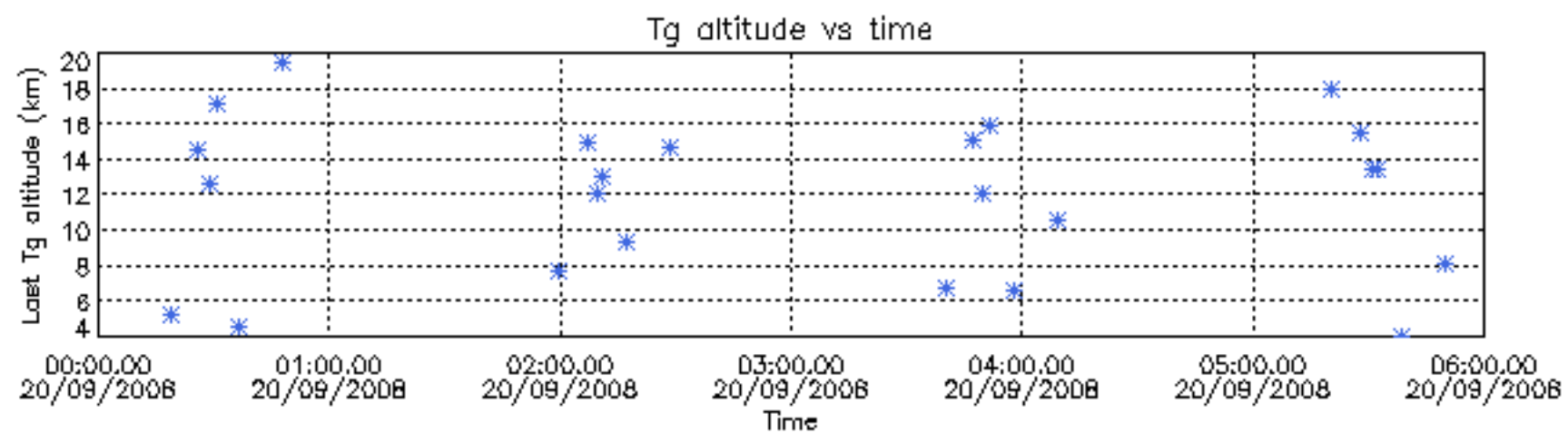
Percentage of star falling outside central band per profile



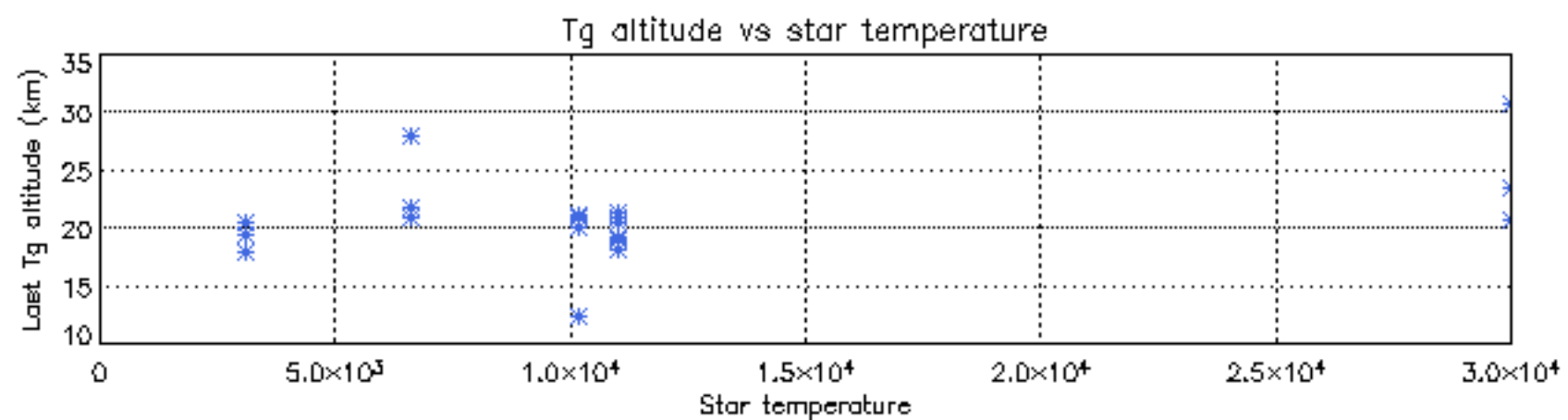
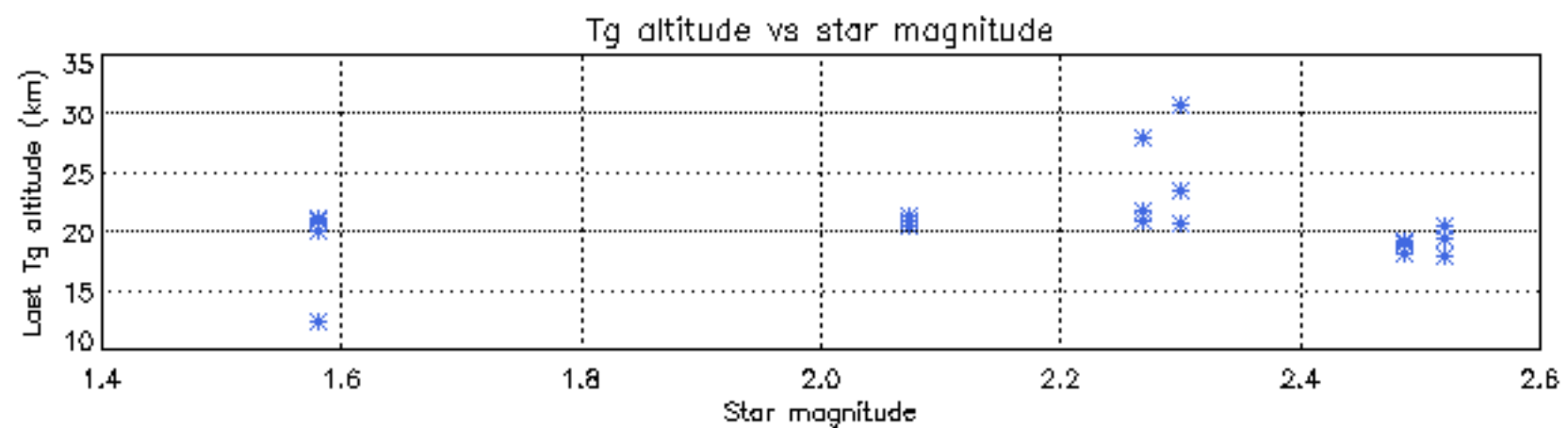
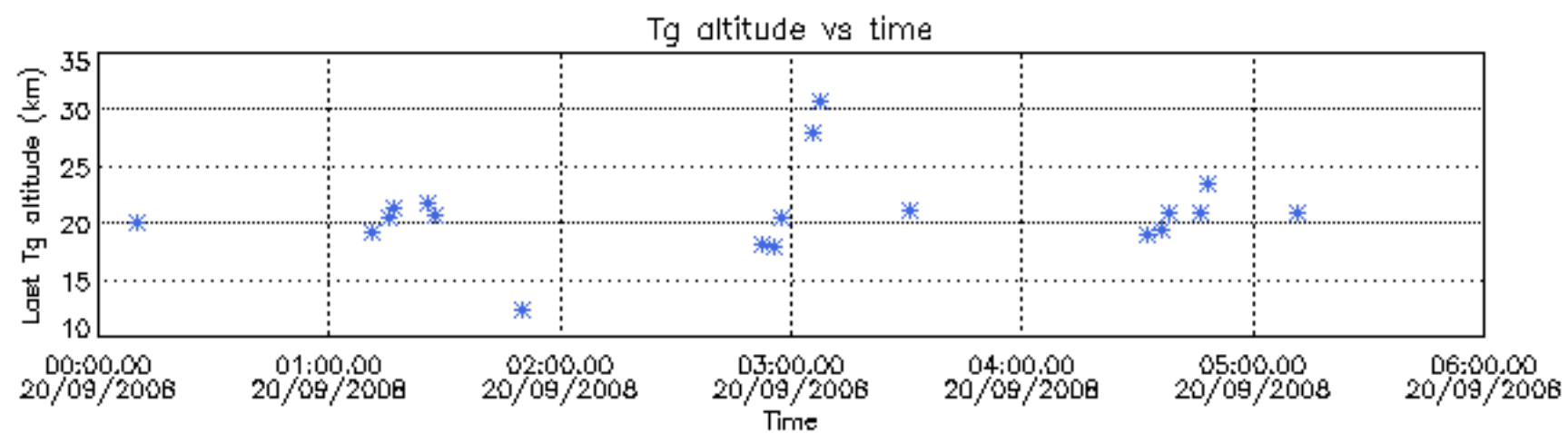
Percentage of saturation errors per profile

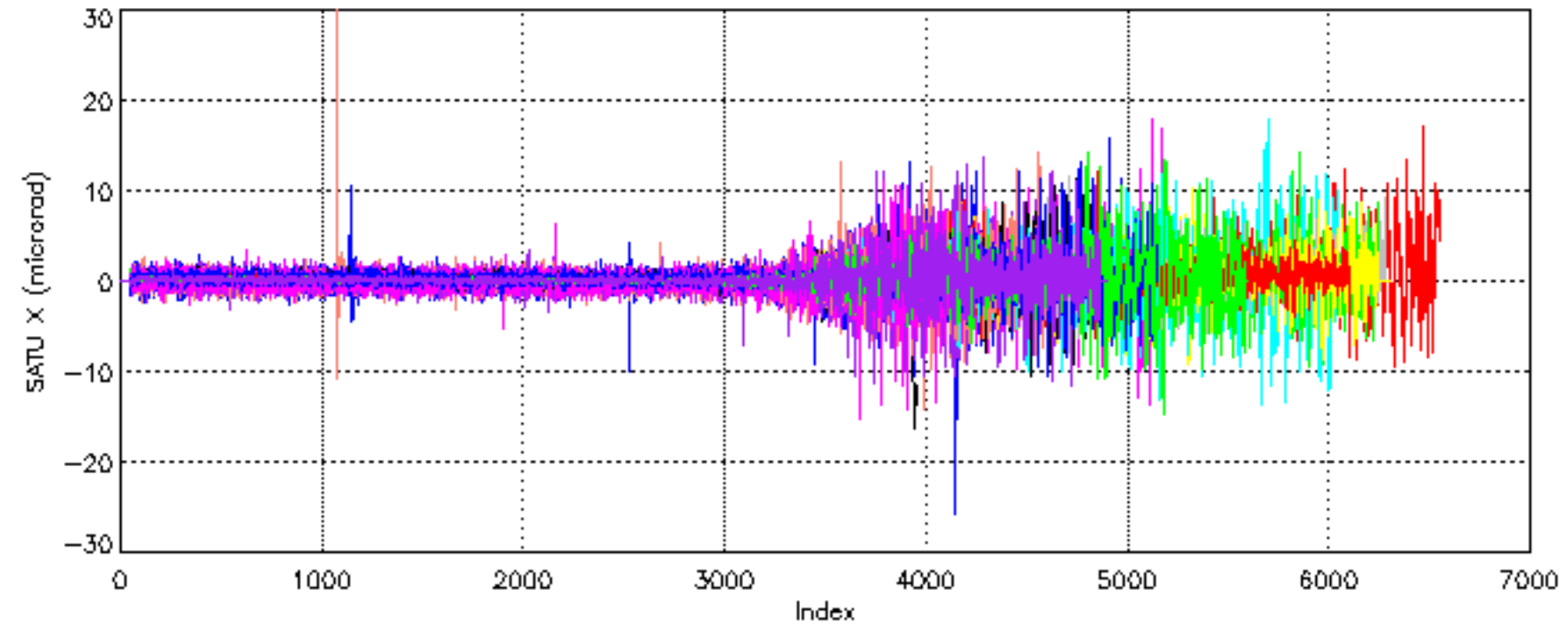


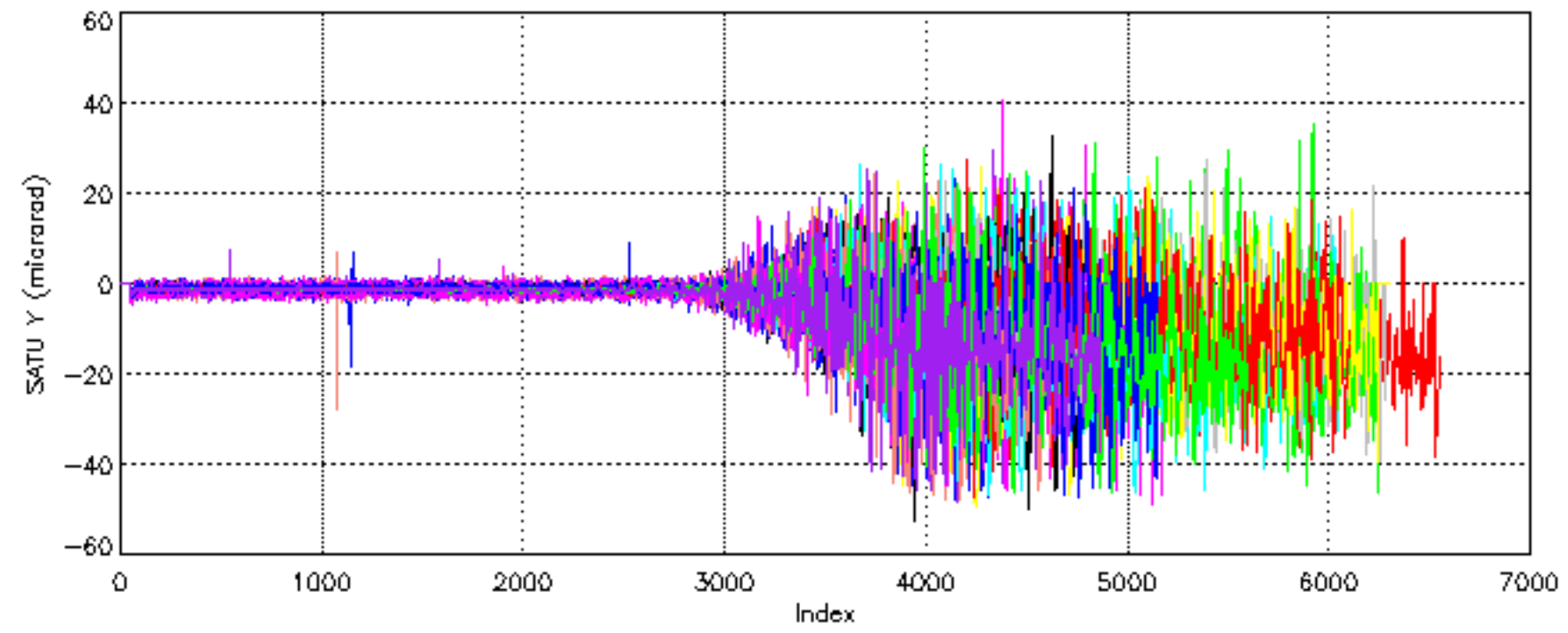
Tangent altitude at which the star is lost

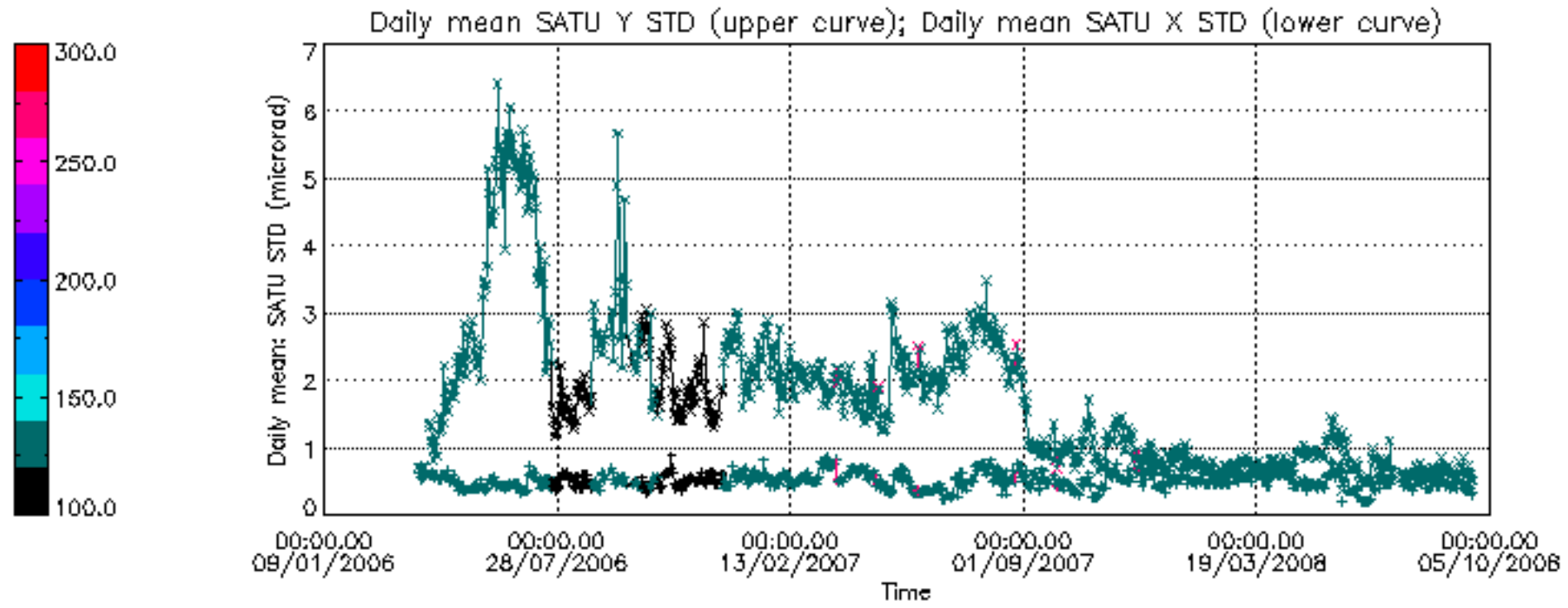


Tangent altitude at which the star is lost









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1; -659.4; 01-SEP-2008 00:20:49; Dark ; 50.0; 1; 9Alp CMA ; -1.44; 11000;occ; 100; 0;34009
 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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1; -1582.8; 01-SEP-2008 03:26:38; Bright; 55.0; 24; 66Alp Gem ; 1.58; 10200;occ; 110; 0;34011
 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
 20; 2975.3; 01-SEP-2008 04:42:36; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;34012
 21; 3434.7; 01-SEP-2008 04:50:15; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 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
10; 966.3; 01-SEP-2008 05:49:43; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;34013
11; 1086.5; 01-SEP-2008 05:51:43; Dark ; 37.0; 31; Alp Gru ; 1.73; 15200;occ; 74; 0;34013
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
8; 2488.8; 01-SEP-2008 21:20:29; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;34022
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
12; 3434.4; 01-SEP-2008 21:36:14; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;34022
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
7; 614.8; 01-SEP-2008 22:29:50; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;34023
8; 972.0; 01-SEP-2008 22:35:48; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;34023
9; 1088.8; 01-SEP-2008 22:37:44; Dark ; 37.5; 31; Alp Gru ; 1.73; 15200;occ; 75; 0;34023
10; 1334.3; 01-SEP-2008 22:41:50; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;34023
11; 1621.8; 01-SEP-2008 22:46:37; Dark ; 38.5; 142; 49Del Cap ; 2.85; 8900;occ; 77; 0;34023
12; 1809.1; 01-SEP-2008 22:49:45; Bright; 37.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 75; 0;34023
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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 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
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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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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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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
 9; 5020.5; 17-SEP-2008 21:59:48; Dark ; 60.0; 8; 10Alp CMI ; 0.40; 6500;occ; 120; 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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 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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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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 7; 31.2; 25-SEP-2008 08:00:43; Dark ; 41.0; 161; Tau Pup ; 2.93; 4500;occ; 82; 0;34358
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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
10; 5950.1; 26-SEP-2008 10:48:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34373
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
8; 5835.0; 26-SEP-2008 12:27:02; Dark ; 50.5; 23; 21Eps CMA ; 1.50; 26000;occ; 101; 0;34374
9; 5950.8; 26-SEP-2008 12:28:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34374
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11; 6904.7; 26-SEP-2008 12:44:52; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;34374
12; 7159.4; 26-SEP-2008 12:49:07; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;34374
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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
12; 6081.1; 26-SEP-2008 17:32:56; Dark ; 44.5; 161; Tau Pup ; 2.93; 4500;occ; 89; 0;34377
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4; 2387.7; 26-SEP-2008 18:11:59; Bright; 39.0; 93; 53Bet Peg ; 2.52; 3100;occ; 78; 0;34378
5; 2967.6; 26-SEP-2008 18:21:39; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;34378
6; 3055.8; 26-SEP-2008 18:23:07; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34378
7; 4586.8; 26-SEP-2008 18:48:38; Bright; 55.0; 17; 78Bet Gem ; 1.16; 4500;occ; 110; 0;34378
8; 5543.4; 26-SEP-2008 19:04:34; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;34378
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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3; 1069.3; 27-SEP-2008 07:14:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
4; 1586.4; 27-SEP-2008 07:23:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
5; 1692.1; 27-SEP-2008 07:25:10; 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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18; 5813.5; 27-SEP-2008 08:33:52; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;34386
19; 6306.2; 27-SEP-2008 08:42:05; Dark ; 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
5; 2361.5; 27-SEP-2008 09:16:56; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
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
15; 5000.2; 27-SEP-2008 10:00:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
16; 5230.7; 27-SEP-2008 10:04:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
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
20; 7110.1; 27-SEP-2008 10:36:04; Dark ; 94.5; 84; Alp Phe ; 2.40; 4500;occ; 189; 0;34387
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2; 2336.7; 27-SEP-2008 10:57:07; Bright; 88.5; 93; 53Bet Peg ; 2.52; 3100;occ; 177; 0;34388
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
5; 3849.2; 27-SEP-2008 11:22:19; Bright; 84.0; 36; 50Alp UMa ; 1.80; 6300;occ; 168; 0;34388
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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 13; 5736.7; 29-SEP-2008 17:32:57; Dark ; 43.0; 65; Lam Vel ; 2.20; 4400;occ; 86; 0;34420
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 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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11; 5161.9; 30-SEP-2008 20:12:57; Dark ; 49.5; 48; 30Alp Hya ; 1.98; 4100;occ; 99; 0;34436
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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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