

GOMOS Daily Report 28-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	30SEP2008 05:38:18
Data source version	GOMOS/5.00
Start time of products	28SEP2008 00:01:48
Stop time of products	28SEP2008 04:56:43
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	1

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

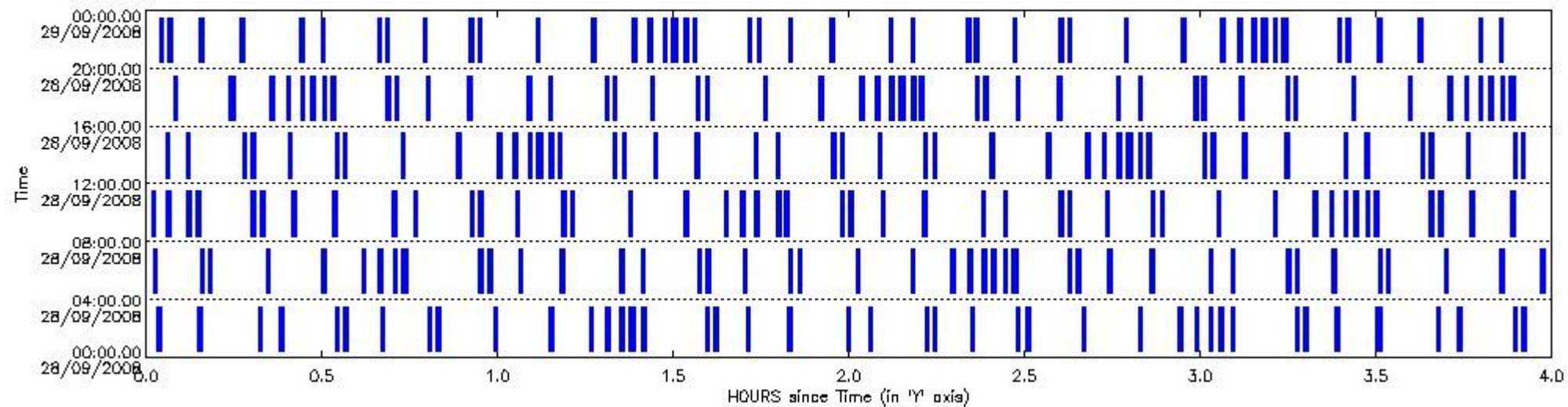
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

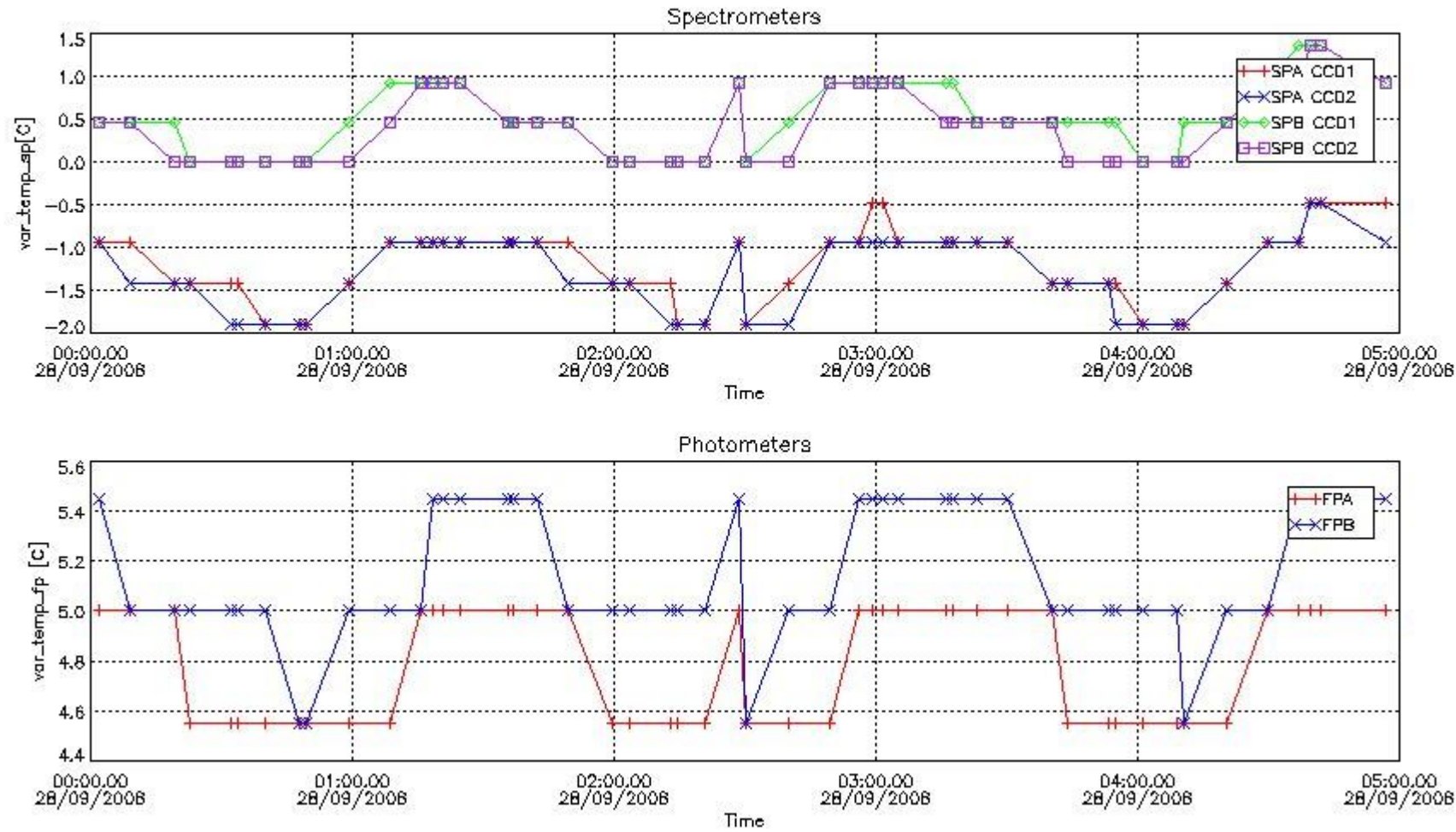
No missing products.

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_1PNPDE20080928_000148_000000422072_00274_34396_0201.N1	28-SEP-2008 00:01:48	Straylight	42.000	84	Alp Phe	2.3970	4500.0	84	34396	No
2	GOM_TRA_1PNPDE20080928_000850_000000492072_00274_34396_0202.N1	28-SEP-2008 00:08:50	Straylight	49.000	52	16Bet Cet	2.0370	4500.0	98	34396	No
3	GOM_TRA_1PNPDE20080928_001904_000000372072_00274_34396_0203.N1	28-SEP-2008 00:19:04	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	34396	No
4	GOM_TRA_1PNPDE20080928_002244_000000382072_00274_34396_0204.N1	28-SEP-2008 00:22:44	Bright	37.500	93	53Bet Peg	2.5200	3100.0	75	34396	No
5	GOM_TRA_1PNPDE20080928_003220_000000392072_00274_34396_0205.N1	28-SEP-2008 00:32:20	Bright	38.500	74	11Bet Cas	2.2680	6600.0	77	34396	No
6	GOM_TRA_1PNPDE20080928_003346_000000412072_00274_34396_0206.N1	28-SEP-2008 00:33:46	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	34396	No
7	GOM_TRA_1PNPDE20080928_004007_000000332072_00274_34396_0207.N1	28-SEP-2008 00:40:07	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	34396	No
8	GOM_TRA_1PNPDE20080928_004758_000000372072_00274_34396_0208.N1	28-SEP-2008 00:47:58	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	34396	No
9	GOM_TRA_1PNPDE20080928_004928_000000522072_00274_34396_0209.N1	28-SEP-2008 00:49:28	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	34396	No
10	GOM_TRA_1PNPDE20080928_005918_000000352072_00274_34396_0210.N1	28-SEP-2008 00:59:18	Bright	34.500	166	17Eps Leo	2.9800	6000.0	69	34396	No
11	GOM_TRA_1PNPDE20080928_010845_000000462072_00274_34396_0211.N1	28-SEP-2008 01:08:45	Twilight	46.000	48	30Alp Hya	1.9770	4100.0	92	34396	No
12	GOM_TRA_1PNPDE20080928_011534_000000462072_00274_34396_0352.N1	28-SEP-2008 01:15:34	Dark	45.500	132	15Rho Pup	2.8030	6900.0	91	34396	No

13	GOM_TRA_1PNPDE20080928_011826_00000502072_00274_34396_0353.N1	28-SEP-2008 01:18:26	Dark	49.500	65	Lam Vel	2.2040	4400.0	99	34396	No
14	GOM_TRA_1PNPDE20080928_012054_00000392072_00274_34396_0354.N1	28-SEP-2008 01:20:54	Dark	39.000	34	Gam2Vel	1.7930	23000.	78	34396	No
15	GOM_TRA_1PNPDE20080928_012432_00000422072_00275_34397_0355.N1	28-SEP-2008 01:24:32	Dark	41.500	161	Tau Pup	2.9310	4500.0	83	34397	No
16	GOM_TRA_1PNPDE20080928_013530_00000402072_00275_34397_0356.N1	28-SEP-2008 01:35:30	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	34397	No
17	GOM_TRA_1PNPDE20080928_013658_00000402072_00275_34397_0357.N1	28-SEP-2008 01:36:58	Dark	40.000	9	Alp Eri	0.45300	24000.	80	34397	No
18	GOM_TRA_1PNPDE20080928_014224_00000412072_00275_34397_0358.N1	28-SEP-2008 01:42:24	Straylight	40.500	84	Alp Phe	2.3970	4500.0	81	34397	No
19	GOM_TRA_1PNPDE20080928_014926_00000512072_00275_34397_0359.N1	28-SEP-2008 01:49:26	Straylight	50.500	52	16Bet Cet	2.0370	4500.0	101	34397	No
20	GOM_TRA_1PNPDE20080928_015940_00000372072_00275_34397_0360.N1	28-SEP-2008 01:59:40	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	34397	No
21	GOM_TRA_1PNPDE20080928_020320_00000392072_00275_34397_0361.N1	28-SEP-2008 02:03:20	Bright	38.500	93	53Bet Peg	2.5200	3100.0	77	34397	No
22	GOM_TRA_1PNPDE20080928_021255_00000392072_00275_34397_0362.N1	28-SEP-2008 02:12:55	Bright	38.500	74	11Bet Cas	2.2680	6600.0	77	34397	No
23	GOM_TRA_1PNPDE20080928_021421_00000382072_00275_34397_0363.N1	28-SEP-2008 02:14:21	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	34397	No
24	GOM_TRA_1PNPDE20080928_022043_00000372072_00275_34397_0364.N1	28-SEP-2008 02:20:43	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	34397	No
25	GOM_TRA_1PNPDE20080928_022834_00000362072_00275_34397_0502.N1	28-SEP-2008 02:28:34	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	34397	Yes
26	GOM_TRA_1PNPDE20080928_023004_00000522072_00275_34397_0503.N1	28-SEP-2008 02:30:04	Bright	52.000	82	48Bet UMa	2.3650	10600.	104	34397	No
27	GOM_TRA_1PNPDE20080928_023954_00000332072_00275_34397_0504.N1	28-SEP-2008 02:39:54	Bright	33.000	166	17Eps Leo	2.9800	6000.0	66	34397	No
28	GOM_TRA_1PNPDE20080928_024921_00000432072_00275_34397_0505.N1	28-SEP-2008 02:49:21	Twilight	42.500	48	30Alp Hya	1.9770	4100.0	85	34397	No
29	GOM_TRA_1PNPDE20080928_025611_00000462072_00275_34397_0506.N1	28-SEP-2008 02:56:11	Dark	45.500	132	15Rho Pup	2.8030	6900.0	91	34397	No
30	GOM_TRA_1PNPDE20080928_025902_00000442072_00275_34397_0507.N1	28-SEP-2008 02:59:02	Dark	44.000	65	Lam Vel	2.2040	4400.0	88	34397	No
31	GOM_TRA_1PNPDE20080928_030131_00000392072_00275_34397_0508.N1	28-SEP-2008 03:01:31	Dark	39.000	34	Gam2Vel	1.7930	23000.	78	34397	No
32	GOM_TRA_1PNPDE20080928_030509_00000422072_00276_34398_0509.N1	28-SEP-2008 03:05:09	Dark	42.000	161	Tau Pup	2.9310	4500.0	84	34398	No
33	GOM_TRA_1PNPDE20080928_031607_00000392072_00276_34398_0510.N1	28-SEP-2008 03:16:07	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	34398	No
34	GOM_TRA_1PNPDE20080928_031734_00000442072_00276_34398_0511.N1	28-SEP-2008 03:17:34	Dark	43.500	9	Alp Eri	0.45300	24000.	87	34398	No
35	GOM_TRA_1PNPDE20080928_032300_00000402072_00276_34398_0512.N1	28-SEP-2008 03:23:00	Straylight	40.000	84	Alp Phe	2.3970	4500.0	80	34398	No
36	GOM_TRA_1PNPDE20080928_033002_00000502072_00276_34398_0513.N1	28-SEP-2008 03:30:02	Straylight	50.000	52	16Bet Cet	2.0370	4500.0	100	34398	No
37	GOM_TRA_1PNPDE20080928_034016_00000372072_00276_34398_0514.N1	28-SEP-2008 03:40:16	Bright	36.500	90	54Alp Peg	2.4870	11000.	73	34398	No
38	GOM_TRA_1PNPDE20080928_034356_00000482072_00276_34398_0515.N1	28-SEP-2008 03:43:56	Bright	48.000	93	53Bet Peg	2.5200	3100.0	96	34398	No
39	GOM_TRA_1PNPDE20080928_035331_00000382072_00276_34398_0516.N1	28-SEP-2008 03:53:31	Bright	38.000	74	11Bet Cas	2.2680	6600.0	76	34398	No
40	GOM_TRA_1PNPDE20080928_035457_00000402072_00276_34398_0517.N1	28-SEP-2008 03:54:57	Bright	39.500	76	27Gam Cas	2.3000	30000.	79	34398	No
41	GOM_TRA_1PNPDE20080928_040119_00000332072_00276_34398_0518.N1	28-SEP-2008 04:01:19	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	34398	No
42	GOM_TRA_1PNPDE20080928_040911_00000352072_00276_34398_0714.N1	28-SEP-2008 04:09:11	Bright	35.000	36	50Alp UMa	1.8000	6300.0	70	34398	No
43	GOM_TRA_1PNPDE20080928_041040_00000342072_00276_34398_0715.N1	28-SEP-2008 04:10:40	Bright	34.000	82	48Bet UMa	2.3650	10600.	68	34398	No
44	GOM_TRA_1PNPDE20080928_042030_00000342072_00276_34398_0716.N1	28-SEP-2008 04:20:30	Bright	33.500	166	17Eps Leo	2.9800	6000.0	67	34398	No
45	GOM_TRA_1PNPDE20080928_042957_00000522072_00276_34398_0717.N1	28-SEP-2008 04:29:57	Twilight	52.000	48	30Alp Hya	1.9770	4100.0	104	34398	No
46	GOM_TRA_1PNPDE20080928_043648_00000442072_00276_34398_0718.N1	28-SEP-2008 04:36:48	Dark	44.000	132	15Rho Pup	2.8030	6900.0	88	34398	No
47	GOM_TRA_1PNPDE20080928_043938_00000402072_00276_34398_0719.N1	28-SEP-2008 04:39:38	Dark	40.000	65	Lam Vel	2.2040	4400.0	80	34398	No
48	GOM_TRA_1PNPDE20080928_044207_00000422072_00276_34398_0720.N1	28-SEP-2008 04:42:07	Dark	42.000	34	Gam2Vel	1.7930	23000.	84	34398	No
49	GOM_TRA_1PNPDE20080928_045643_00000382072_00277_34399_0721.N1	28-SEP-2008 04:56:43	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	34399	No

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



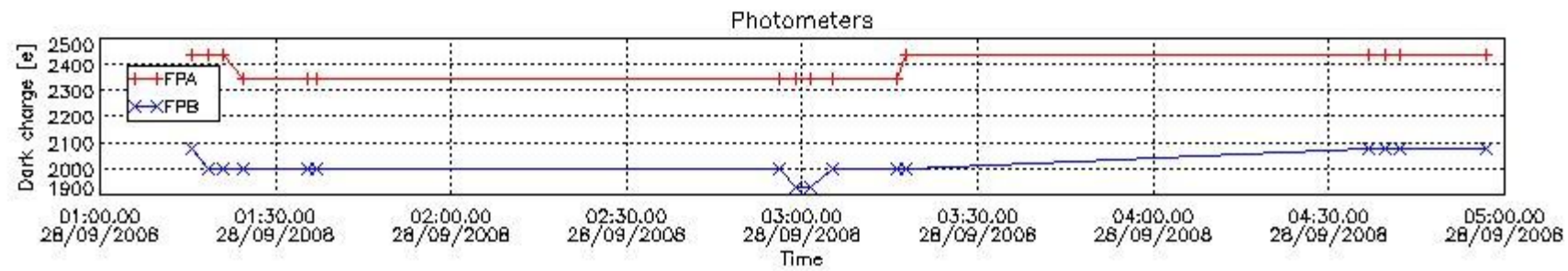
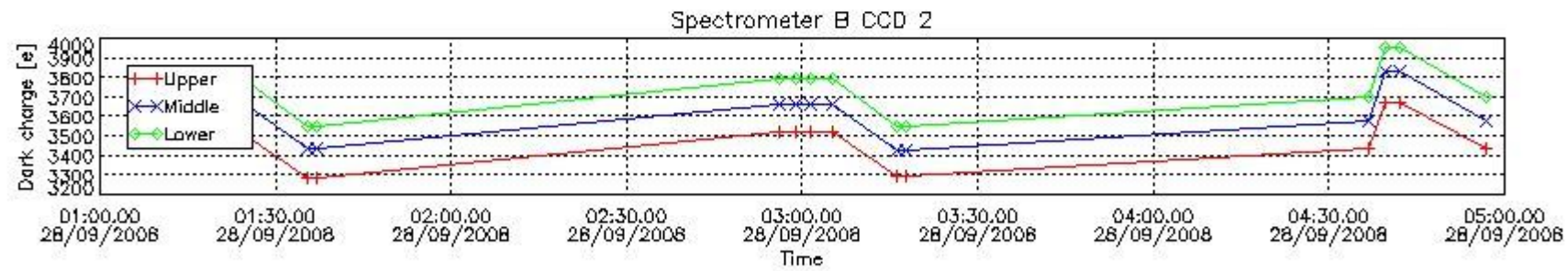
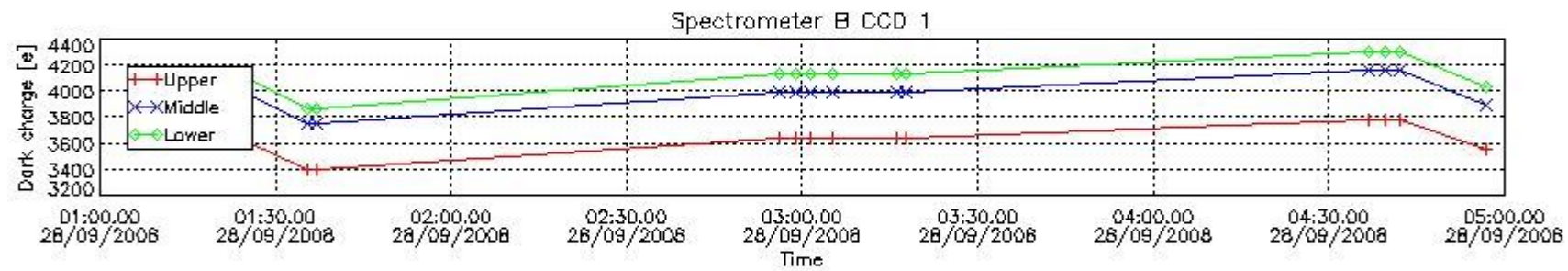
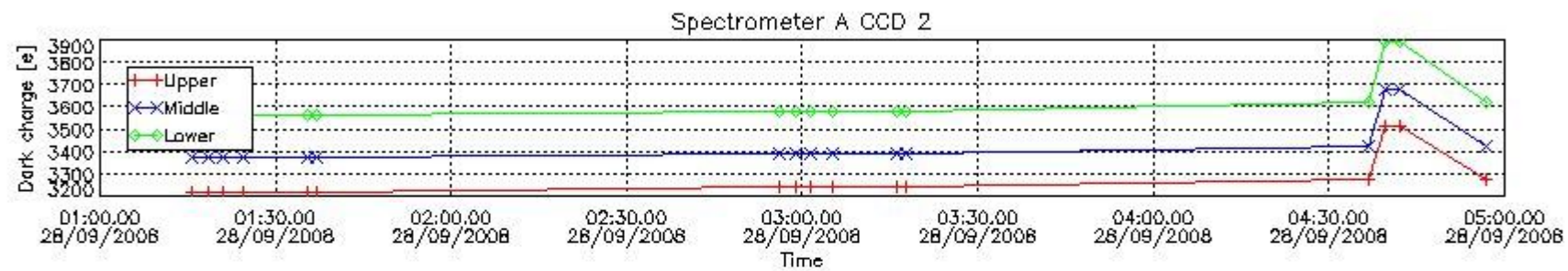
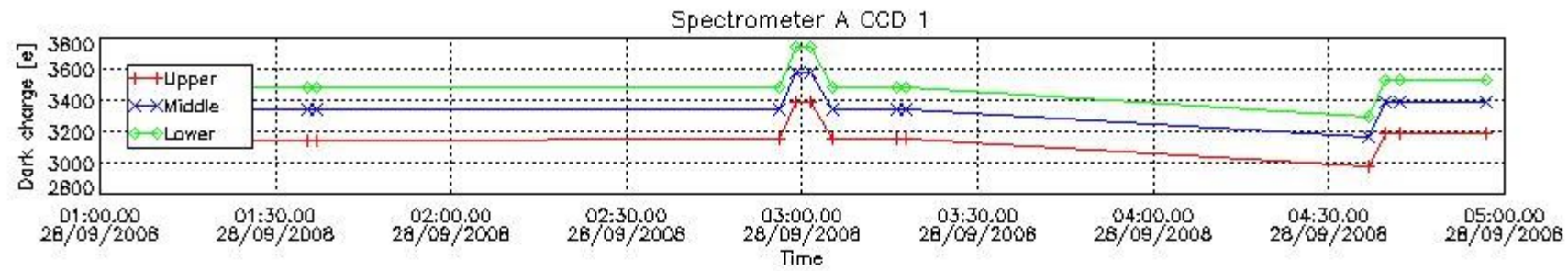
4. Overview of dark signal processing per product

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



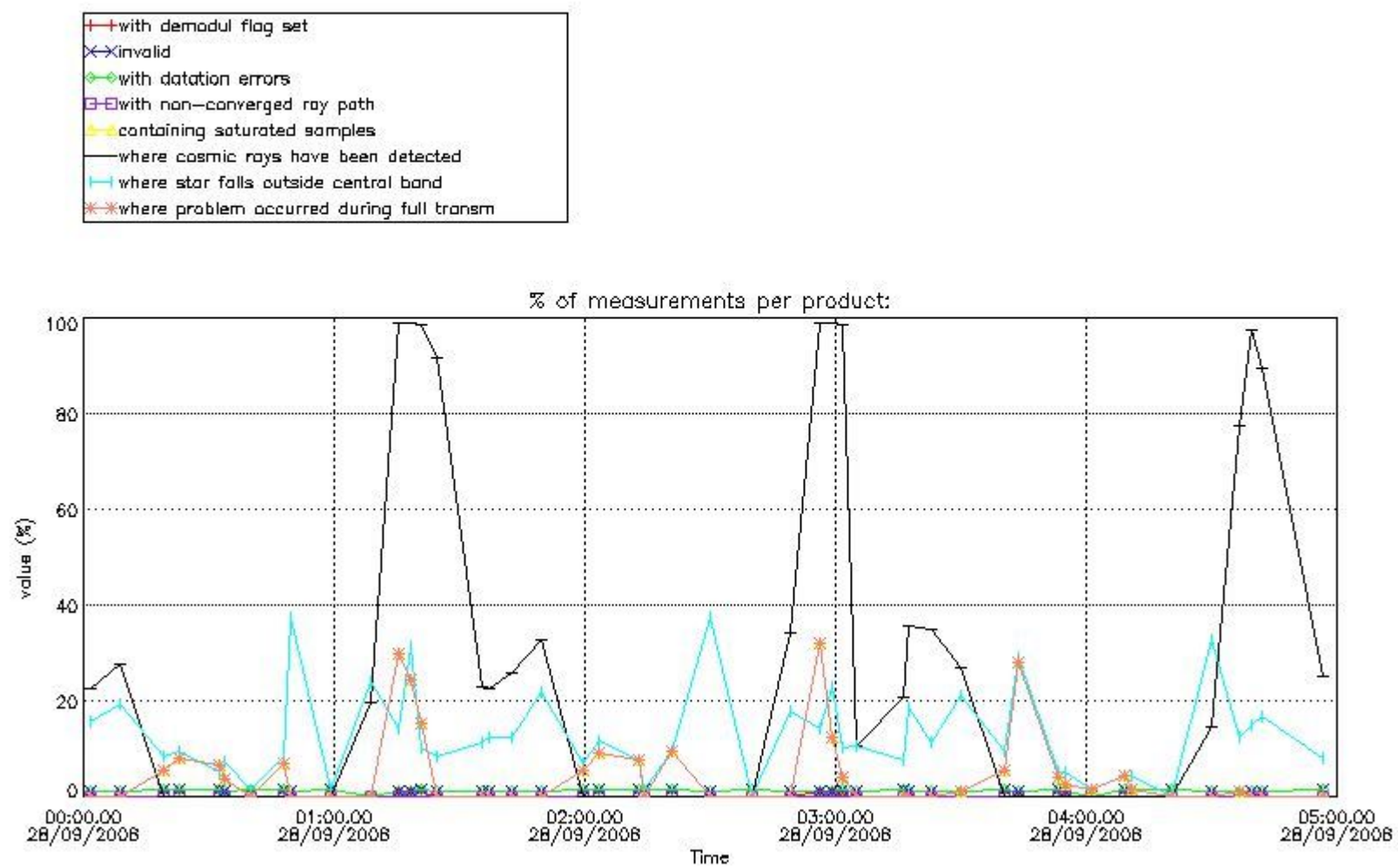
5. Demodulation flag and quality information monitoring

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.

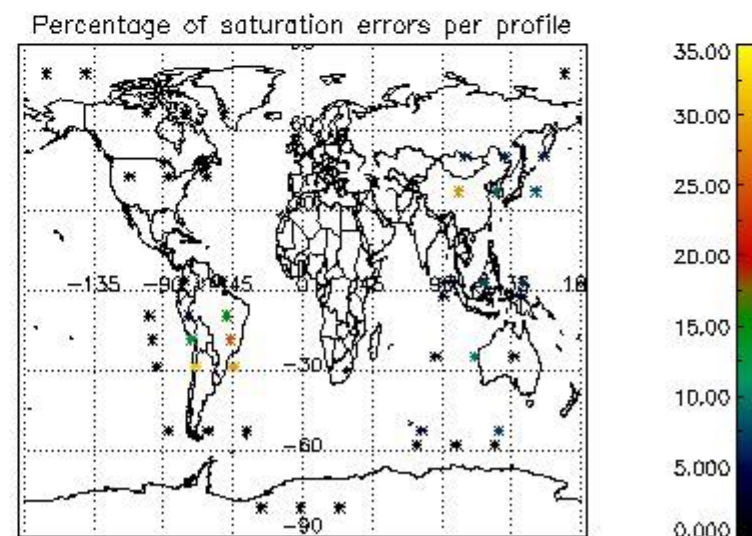
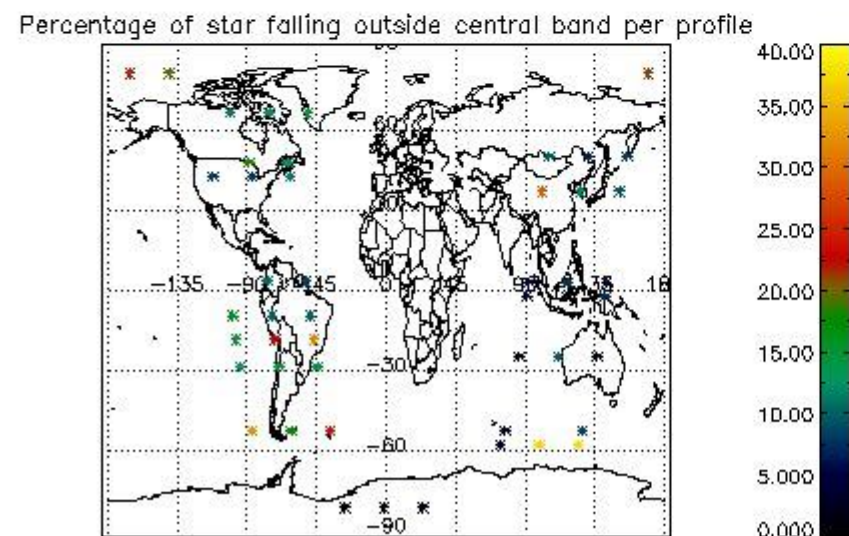
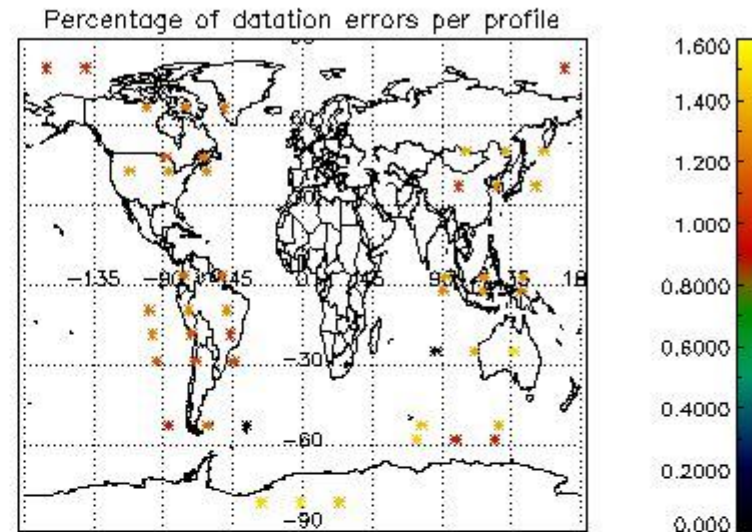
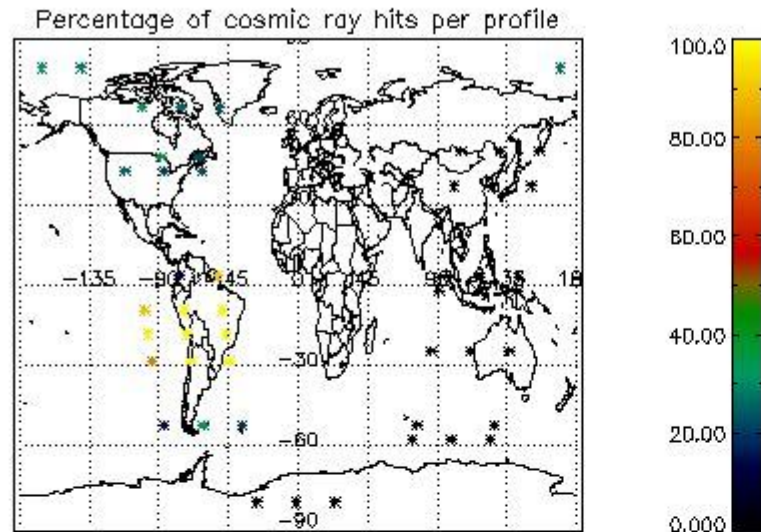
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	39.5833 %
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)



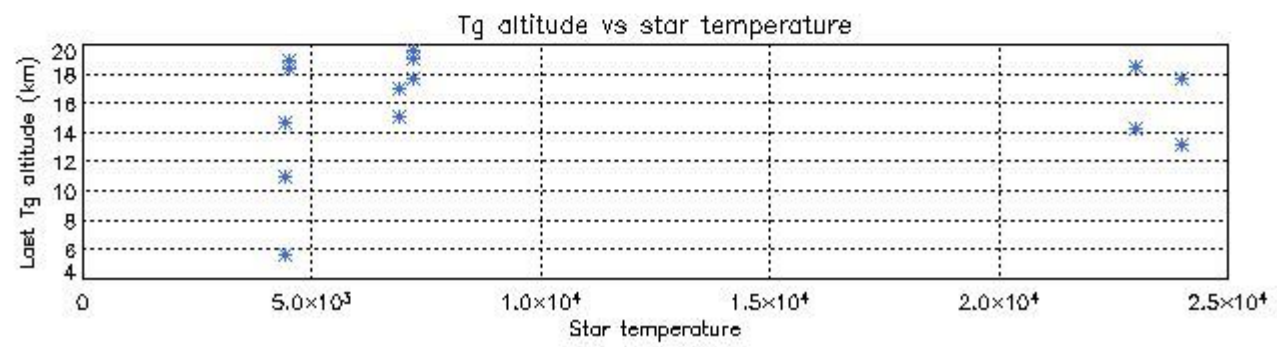
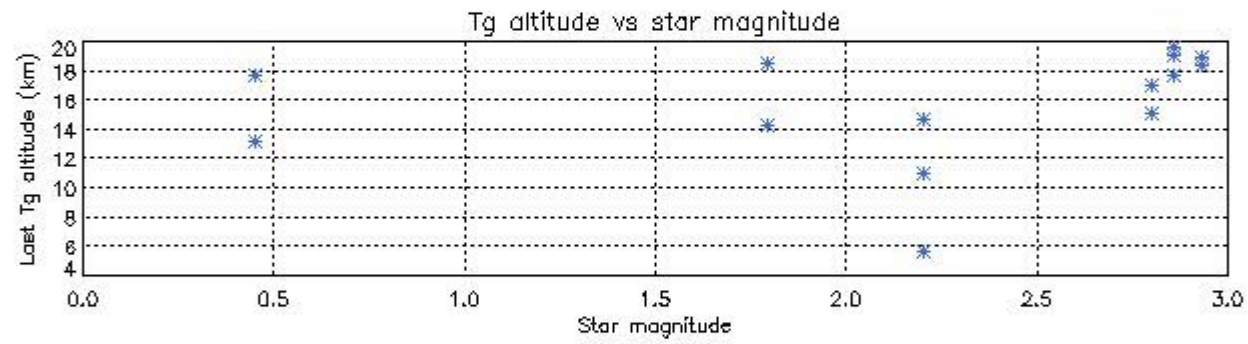
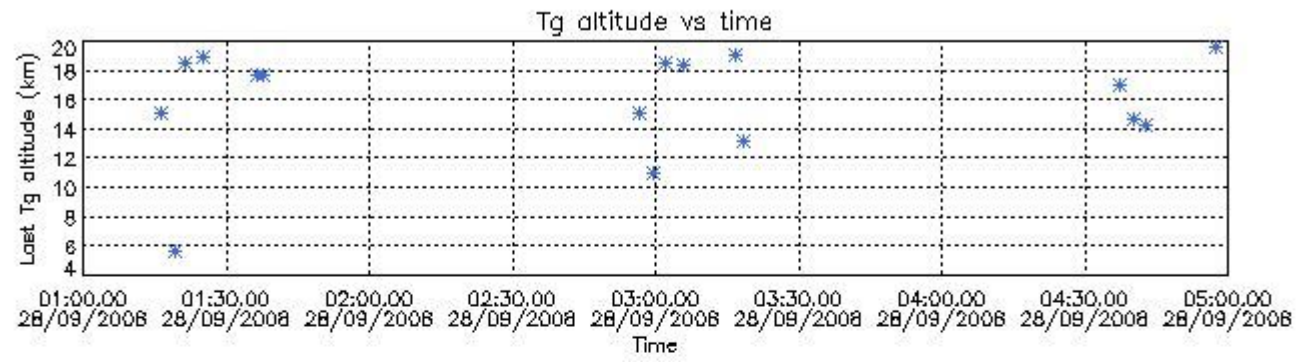
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.875	20.044	8.8760
St. deviation:	3.6748	6.8673	4.0545
Maximum:	19.555	28.341	12.735
Minimum:	5.5798	3.4785	4.6506
Number of data:	16.000	23.000	3.0000

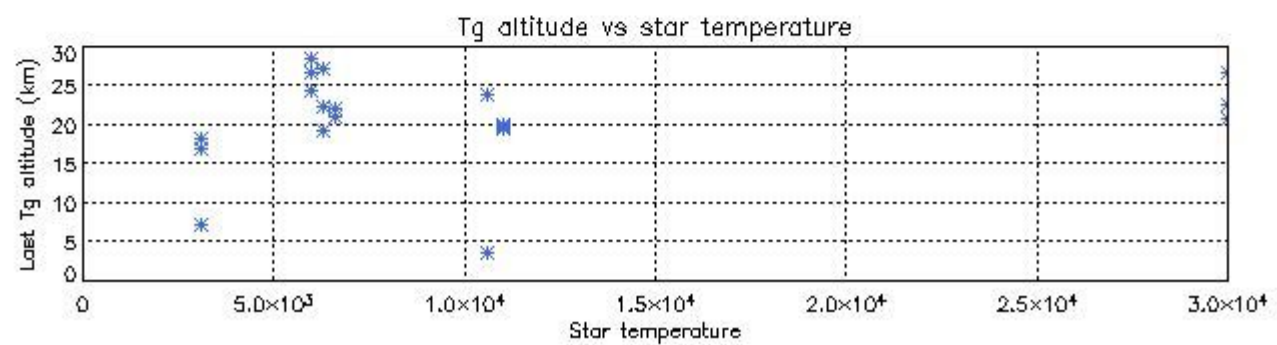
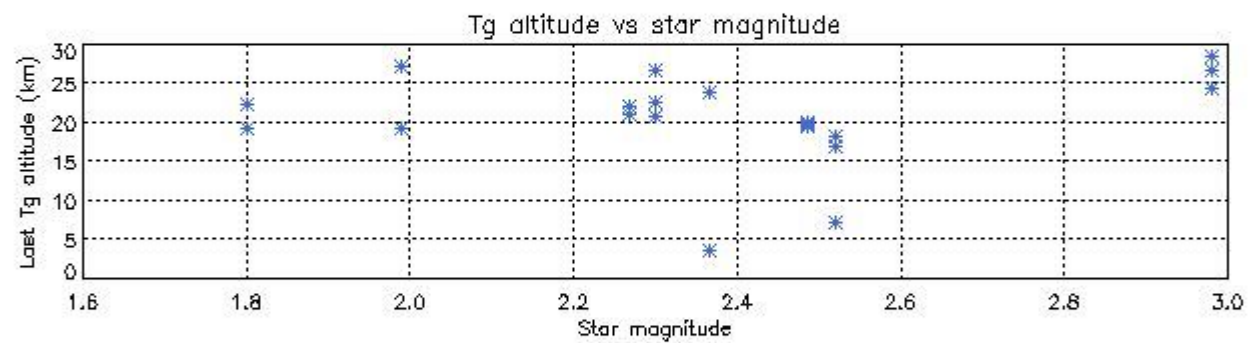
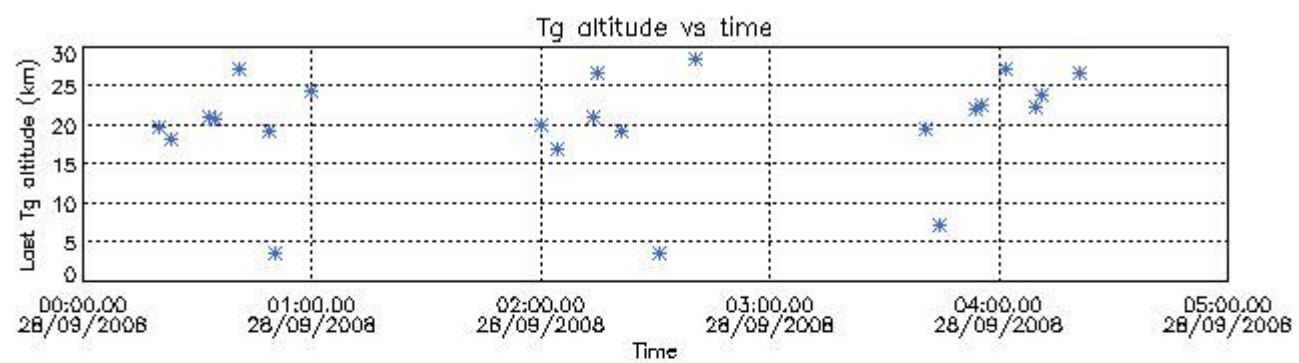
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



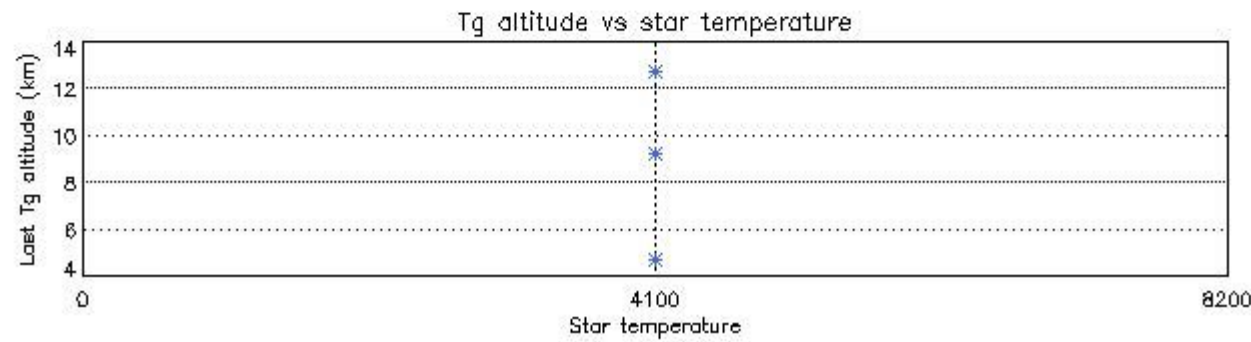
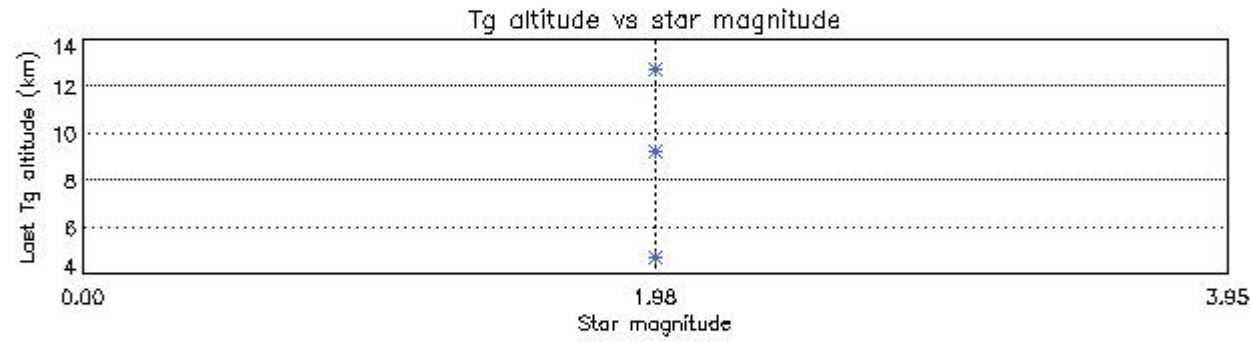
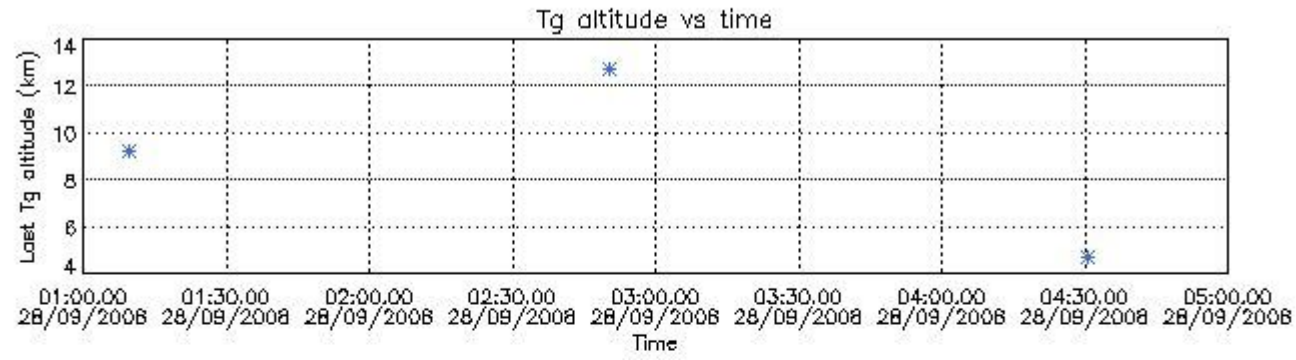
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

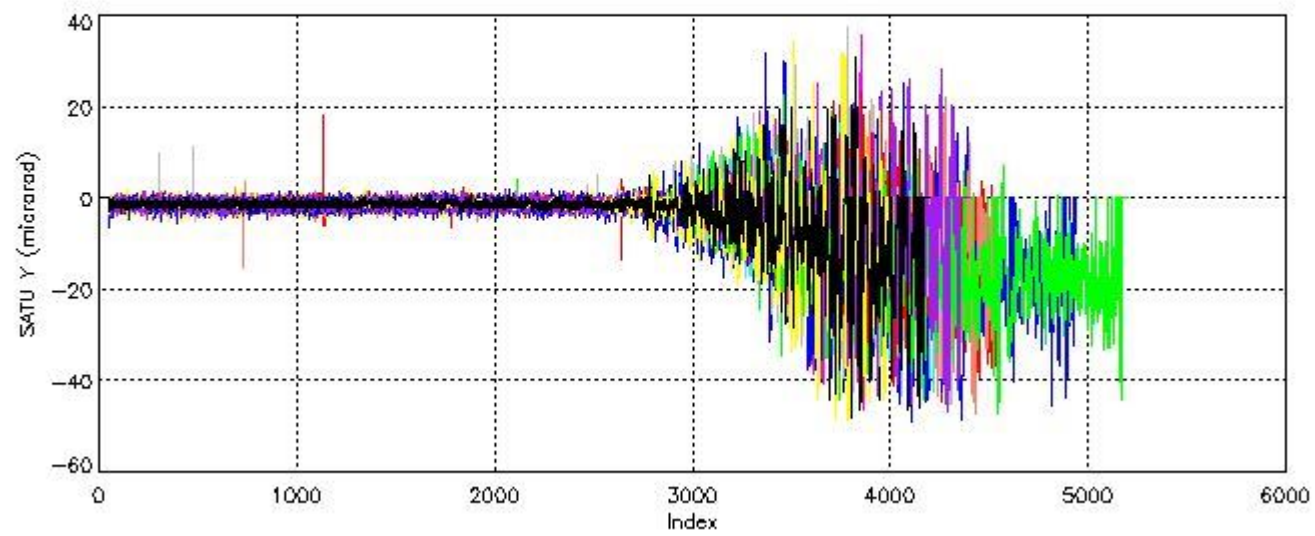
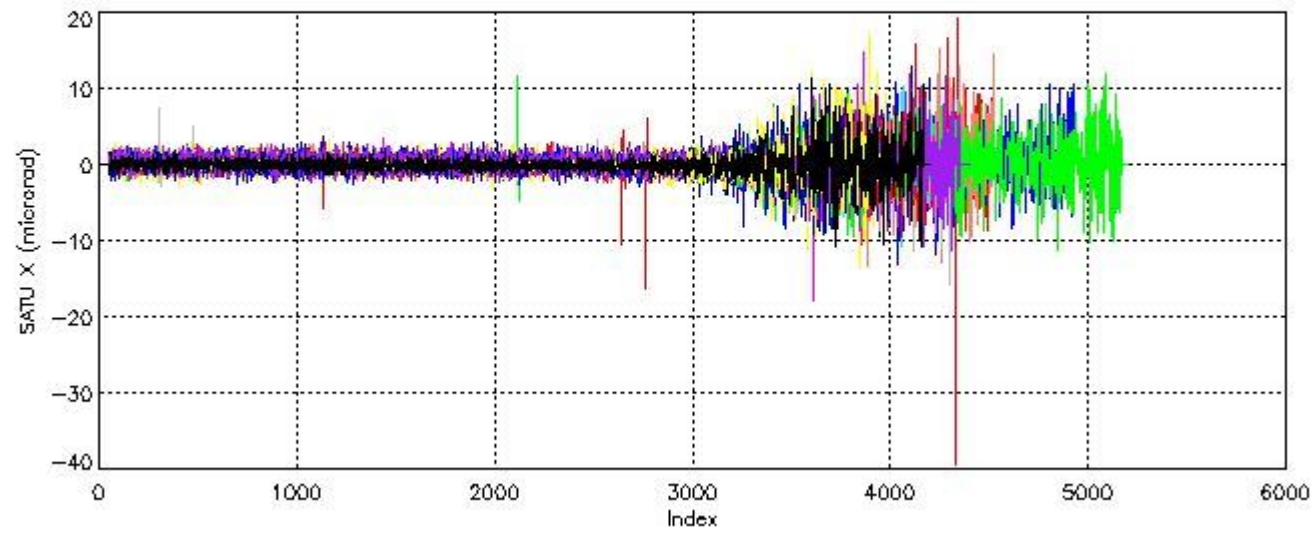


7. Star Acquisition and Tracking Unit (SATU)

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:	0.10513	-1.3925	0.057313	-1.3090
St. deviation:	0.56164	0.80842	0.71894	0.86759
Maximum:	7.3000	11.000	3.8000	2.9000
Minimum:	-3.0000	-15.400	-4.3000	-5.3000

Number of data:	14600.	14600.	19450.	19450.
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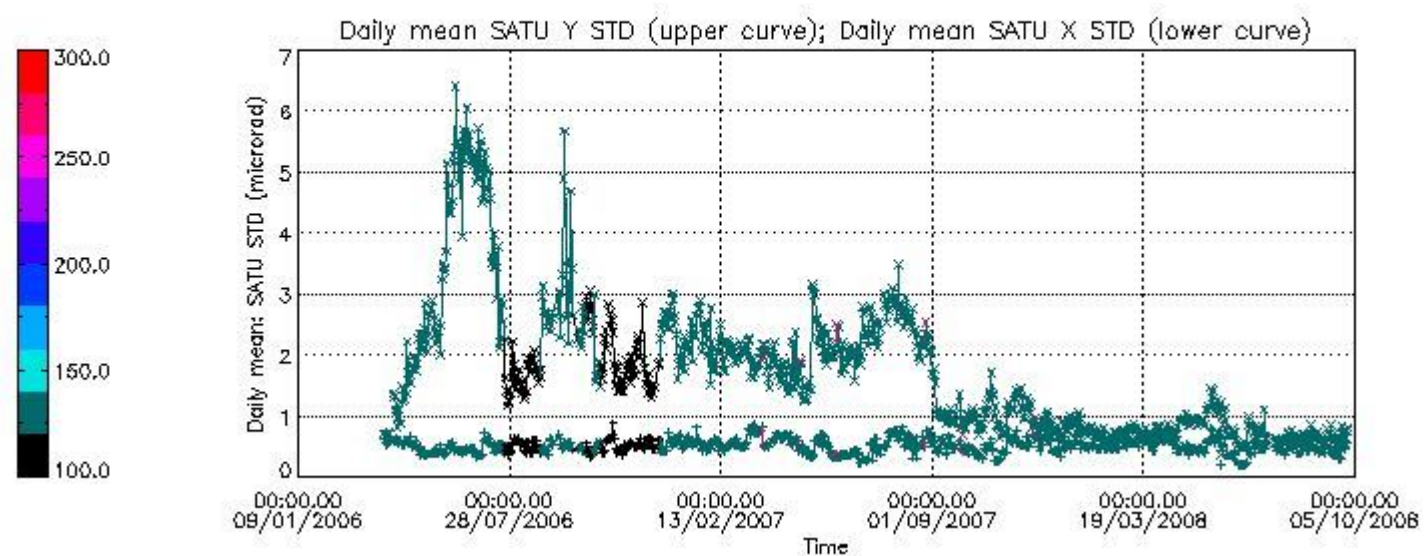
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

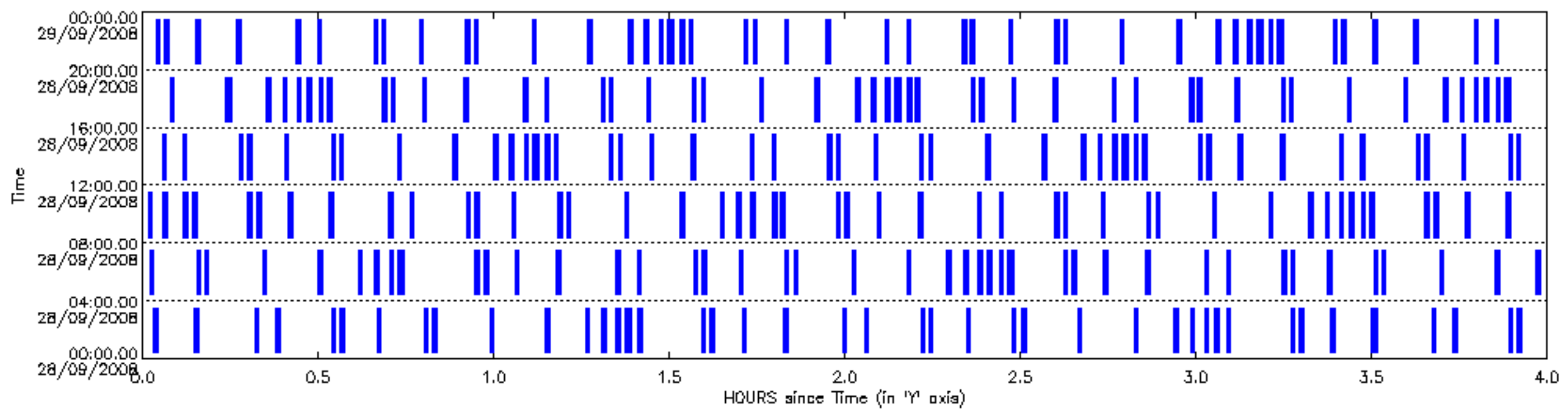
Lower curve: STD of SATU X axis

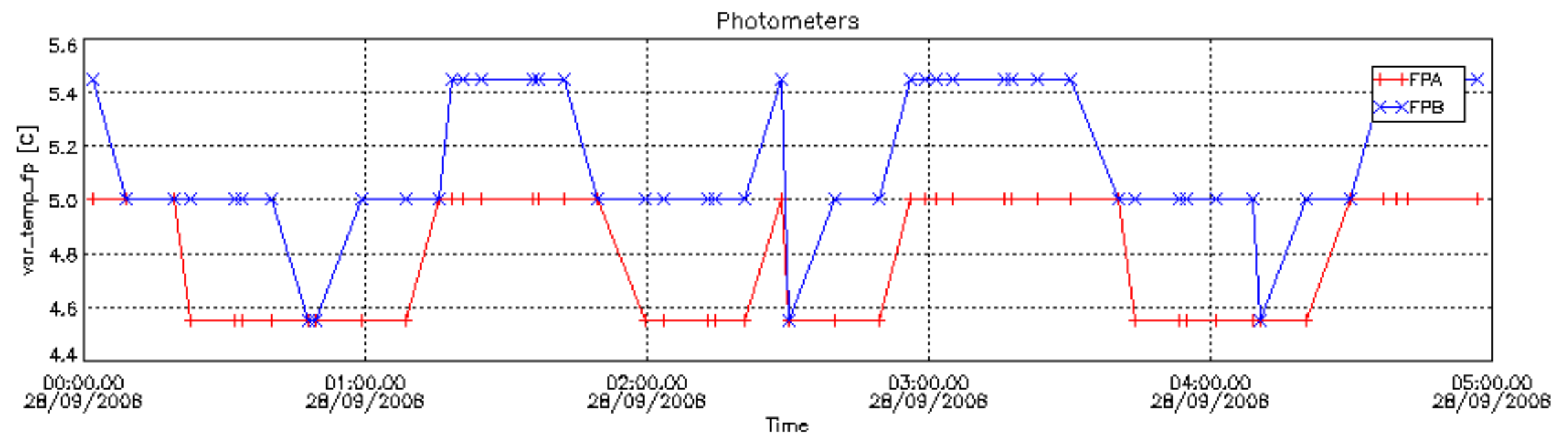
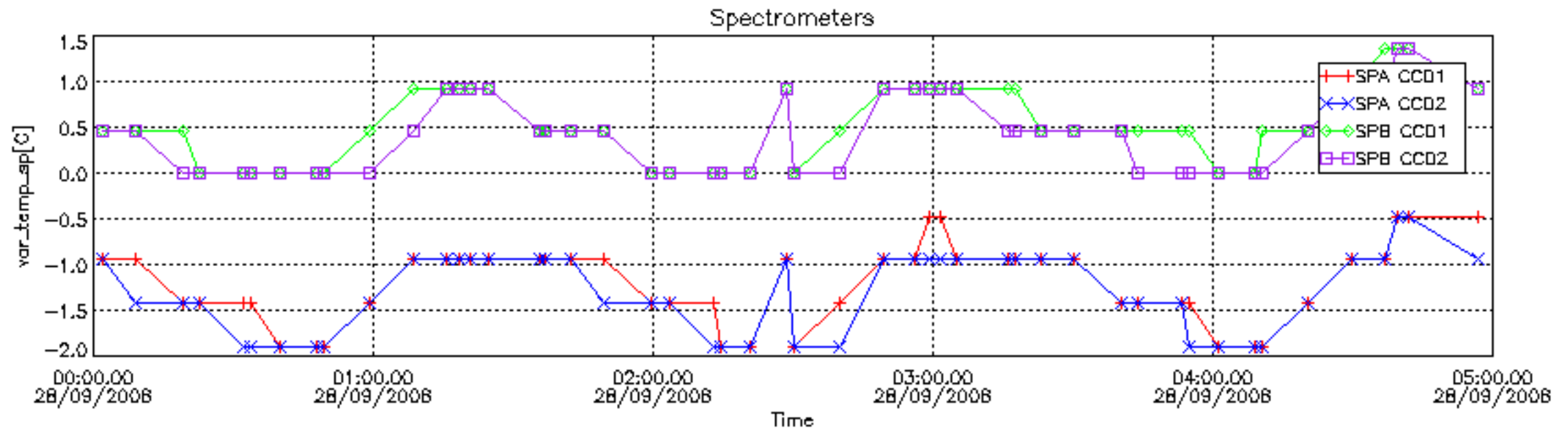


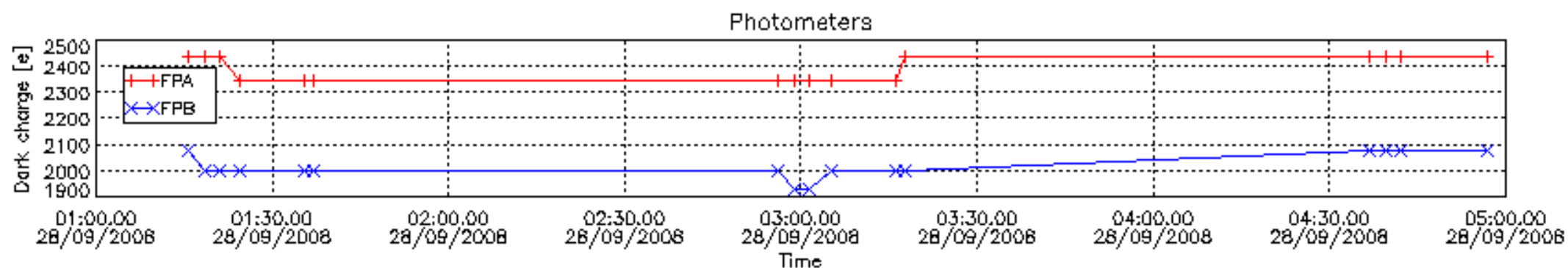
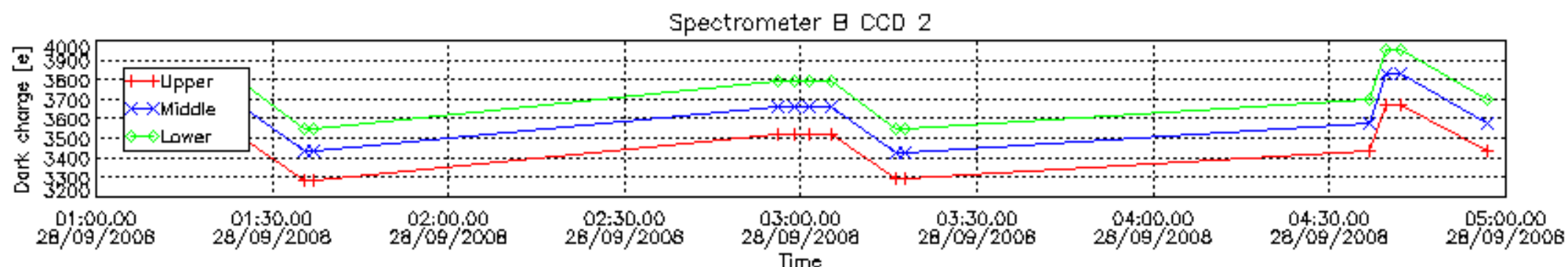
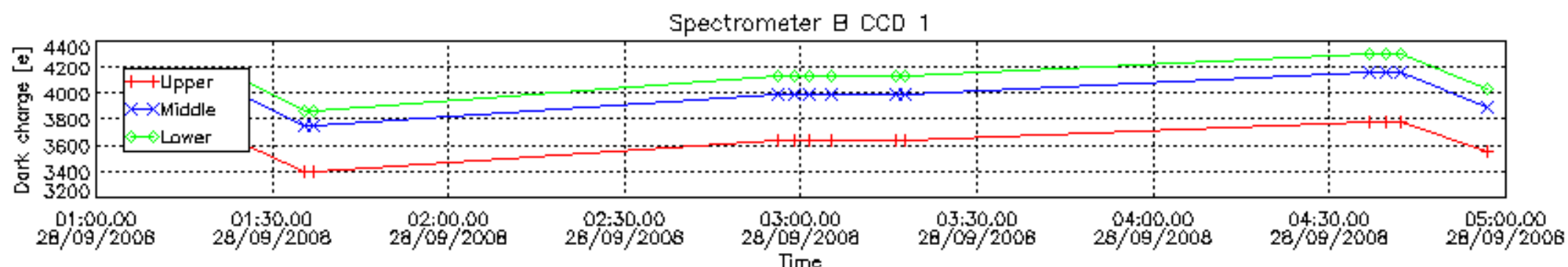
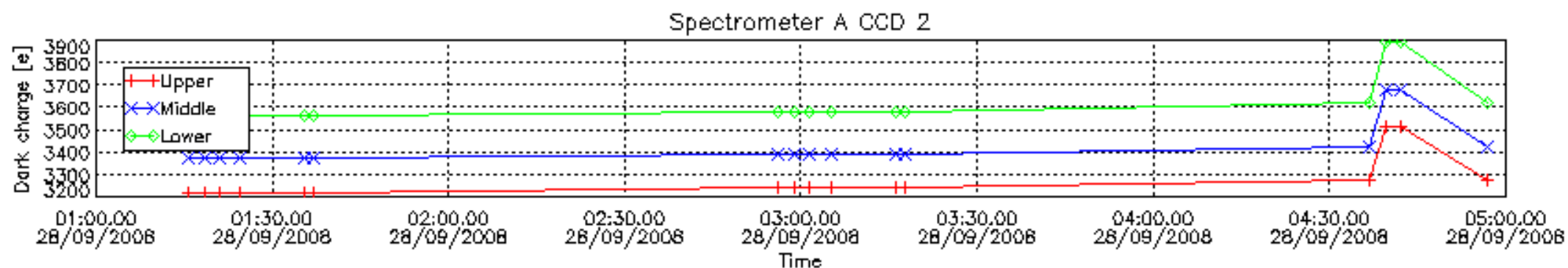
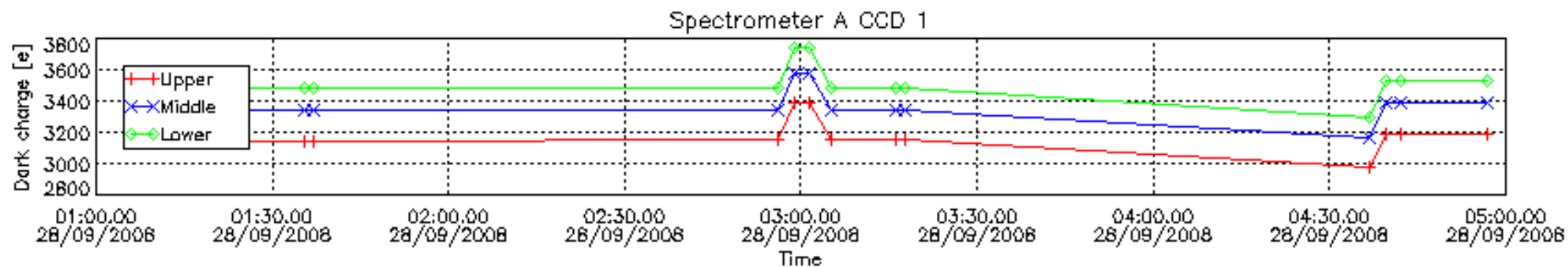
8. Auxiliary Data Files used for the production reported in section 2.4

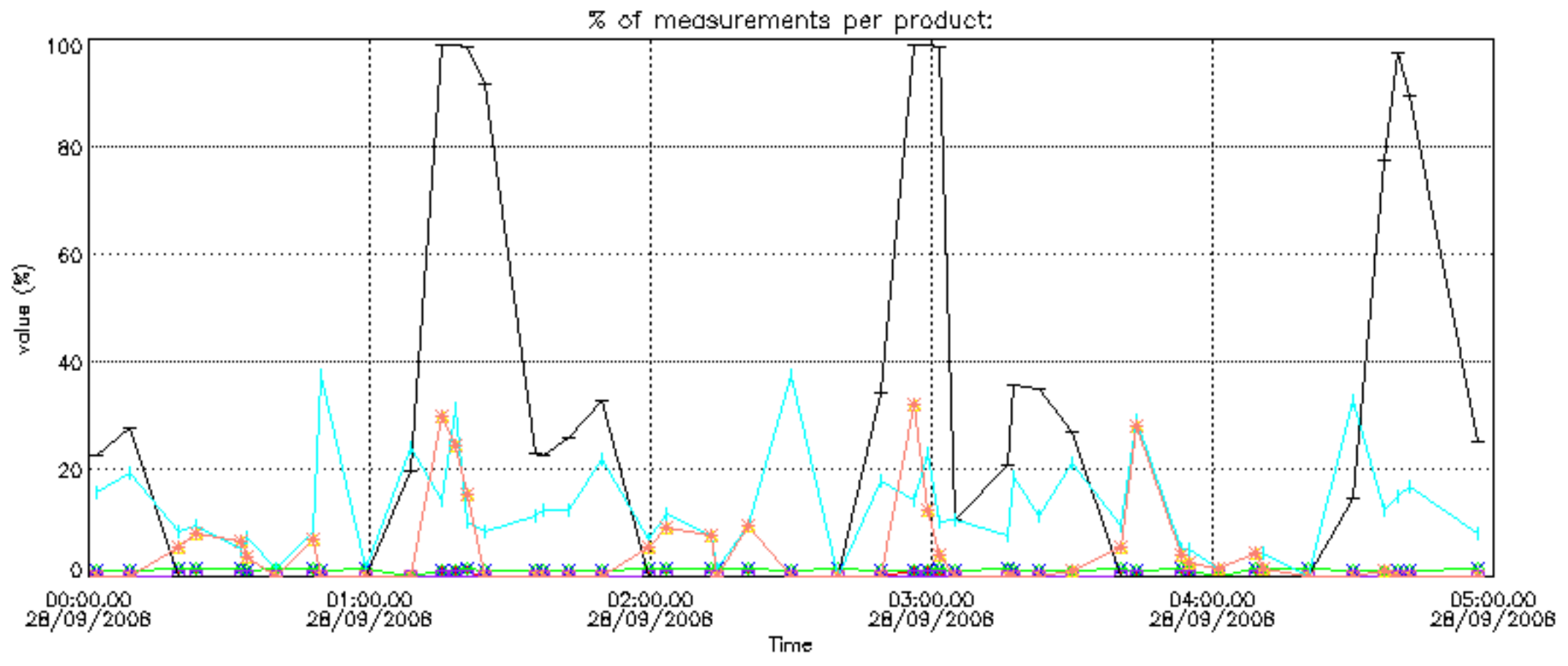
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	28-SEP-2008 00:01:48
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080922_092941_20080919_000000_20100101_000000	1	28-SEP-2008 00:01:48
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	28-SEP-2008 00:01:48
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	28-SEP-2008 00:01:48
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	28-SEP-2008 00:01:48
ECMWF_FILE	AUX_ECF_AXNECM20080927_072111_20080927_210000_20080928_090000	1	28-SEP-2008 00:01:48
ECMWF_FILE	AUX_ECF_AXNECM20080927_190111_20080928_030000_20080928_150000	42	28-SEP-2008 04:09:11
OPTIONAL_ECMWF_FILE	MISSING	1	28-SEP-2008 00:01:48
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080927_214759_000057382072_00272_34394_6445.N1	1	28-SEP-2008 00:01:48
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080927_232856_000057382072_00273_34395_6446.N1	12	28-SEP-2008 01:15:34
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080928_010953_000041442072_00274_34396_6447.N1	25	28-SEP-2008 02:28:34
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080928_022416_000054192072_00275_34397_6448.N1	42	28-SEP-2008 04:09:11

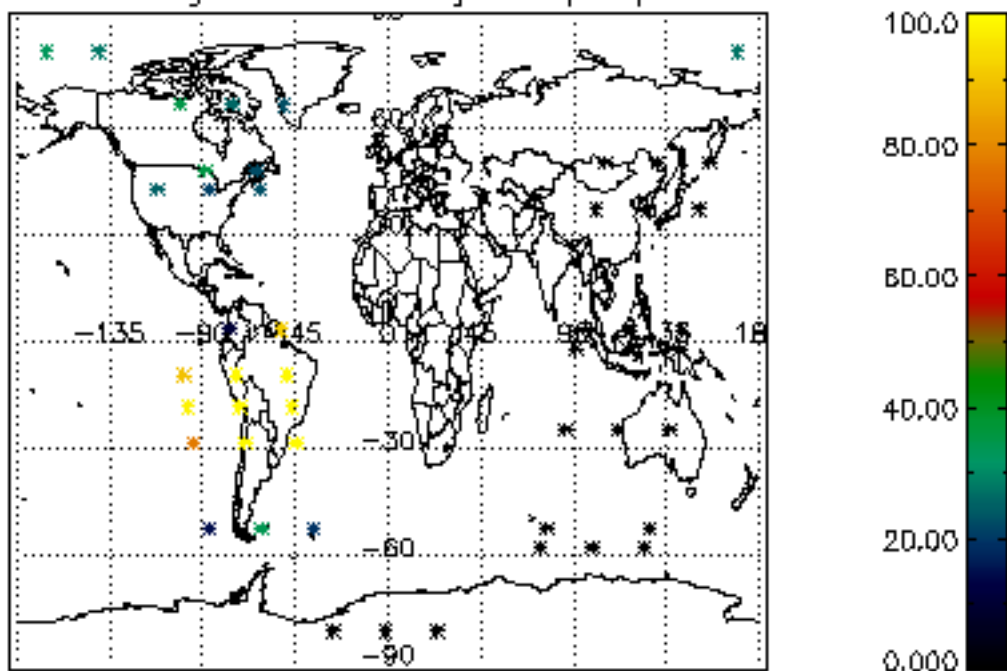




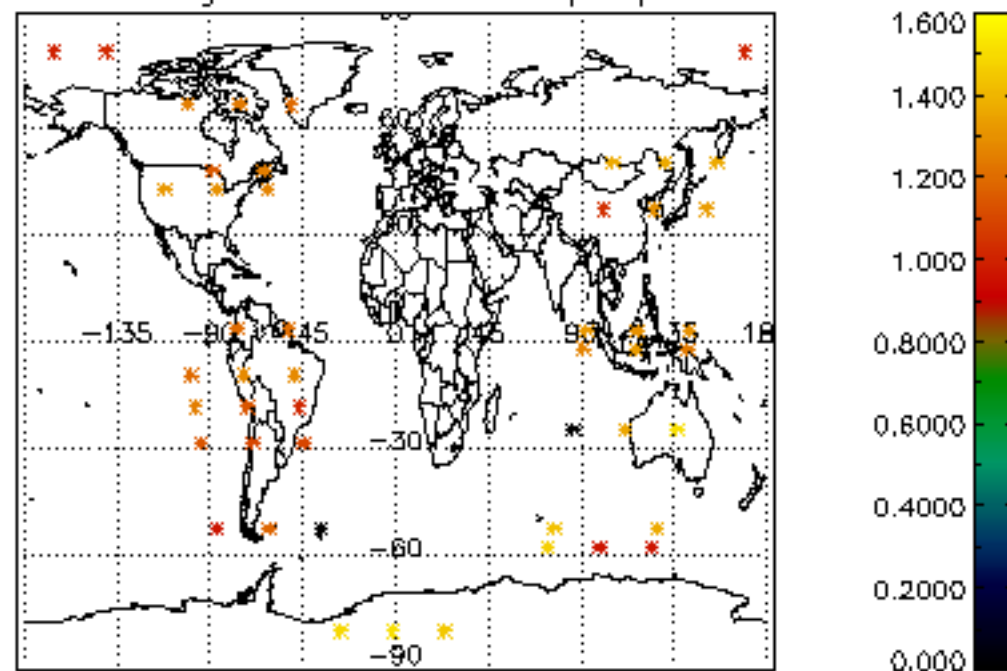




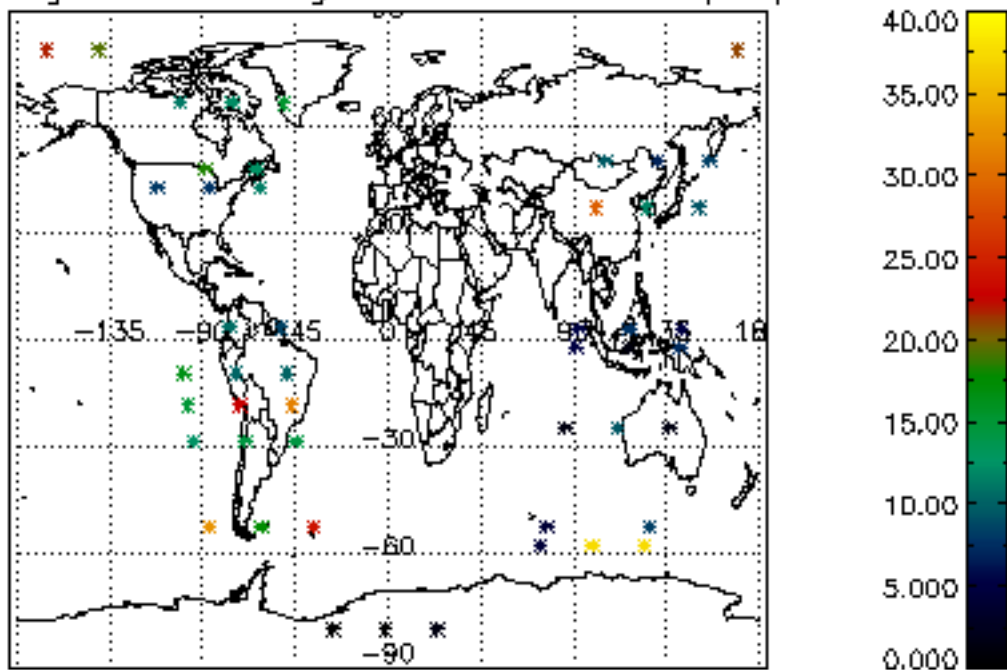
Percentage of cosmic ray hits per profile



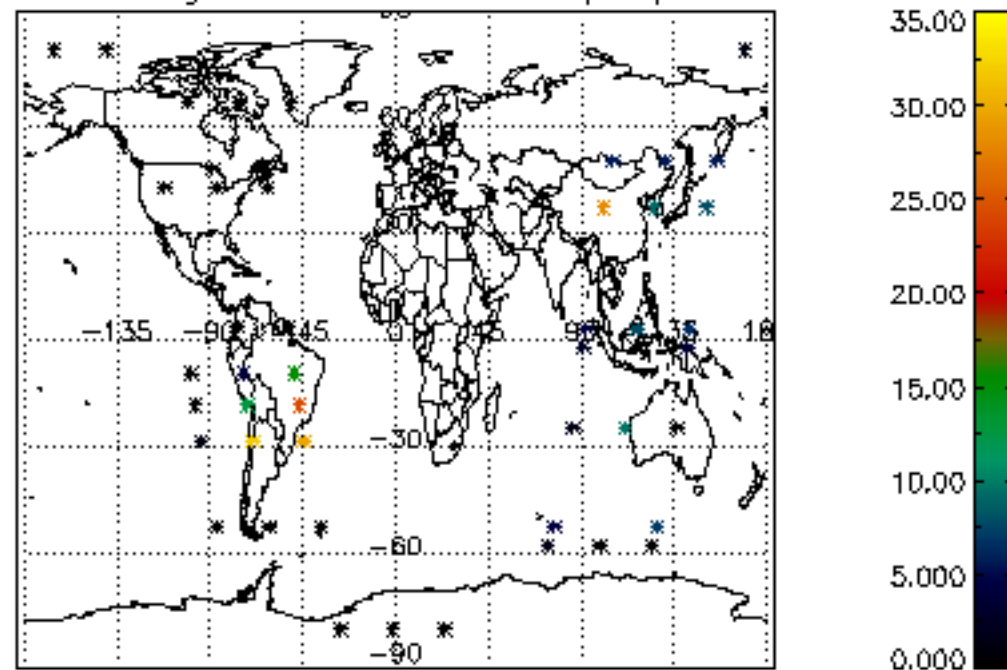
Percentage of datation errors per profile



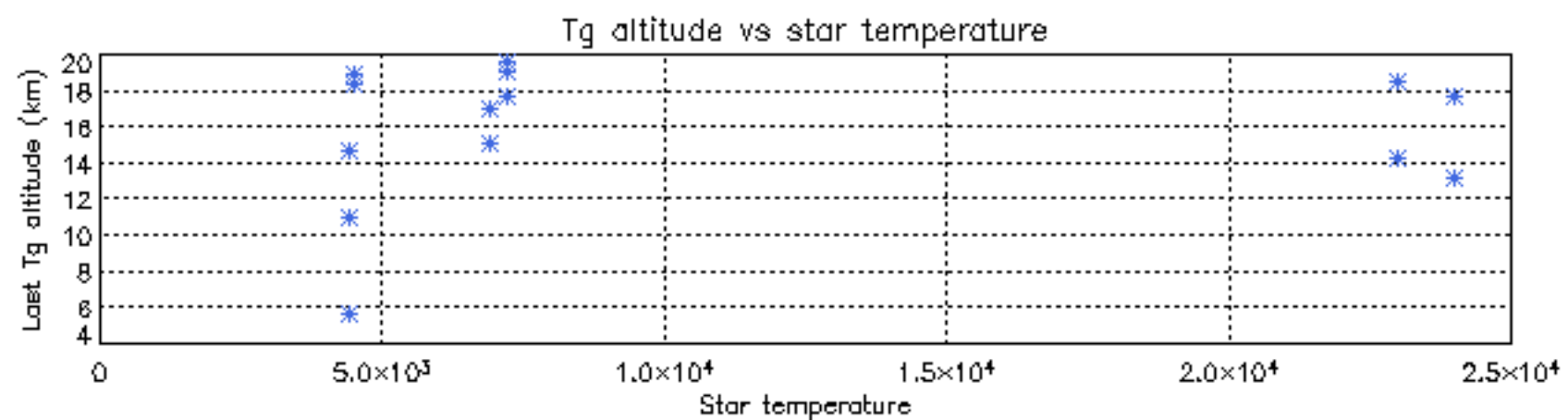
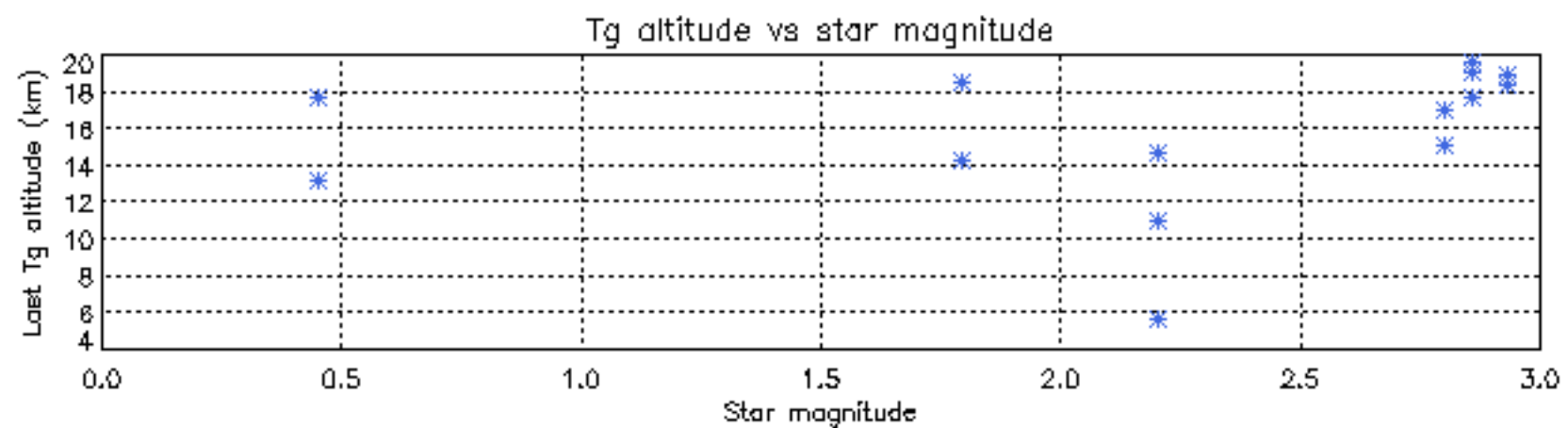
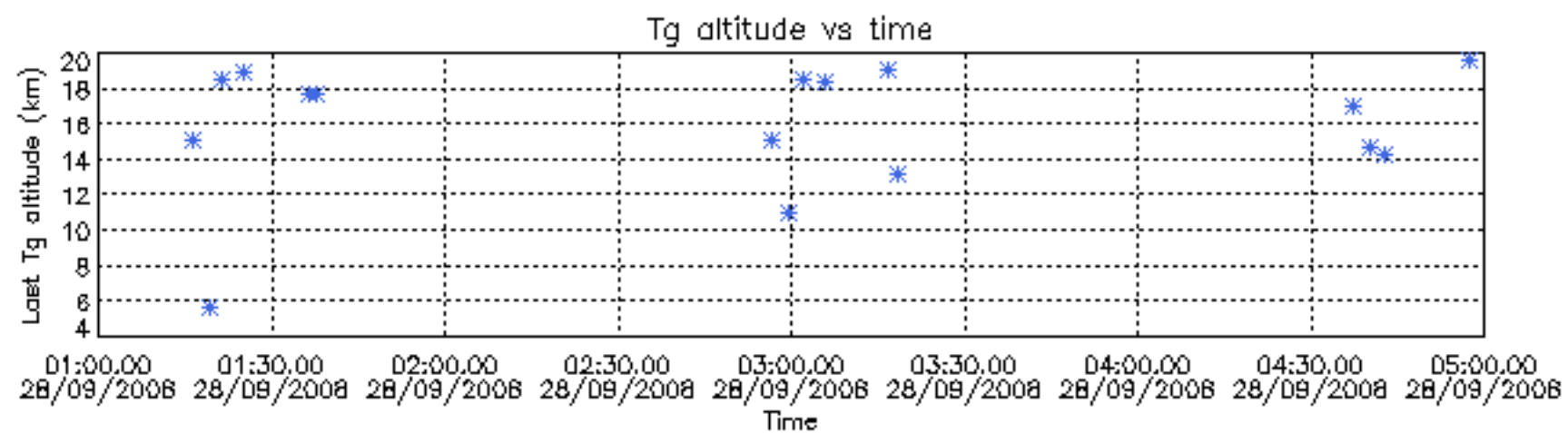
Percentage of star falling outside central band per profile



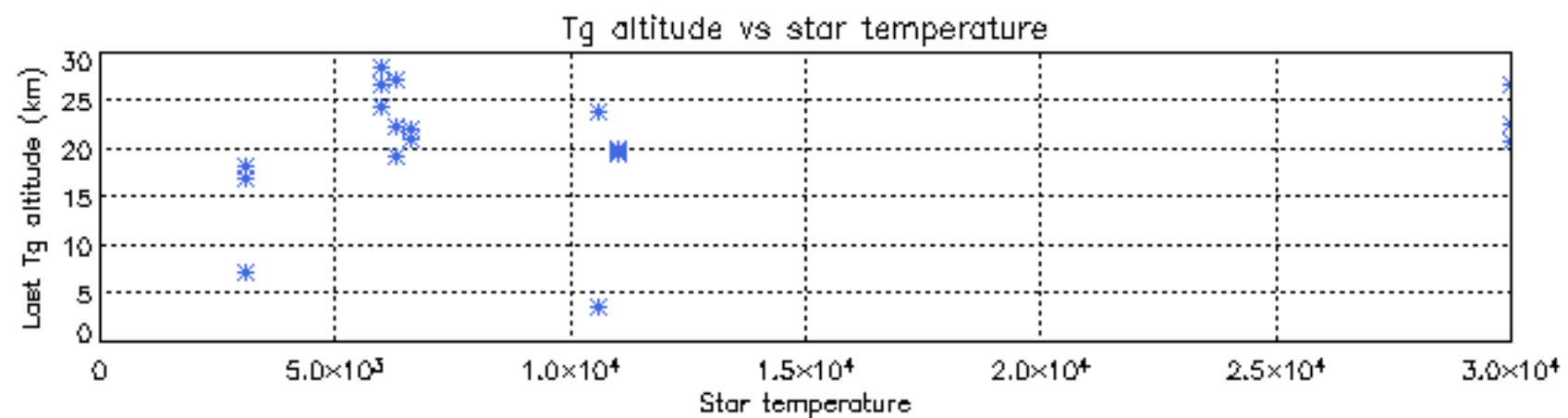
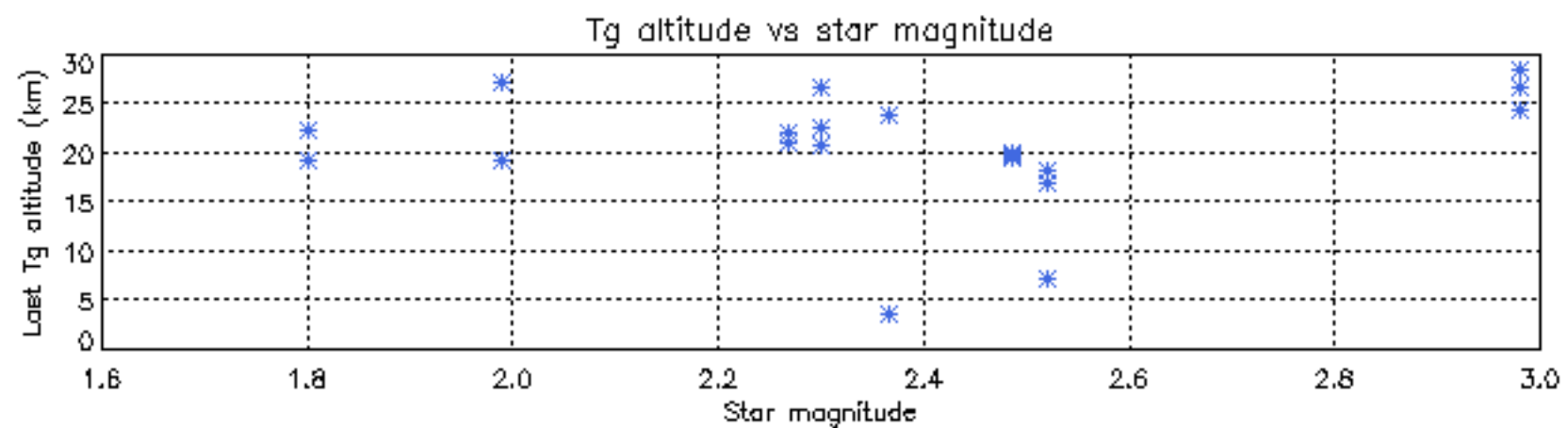
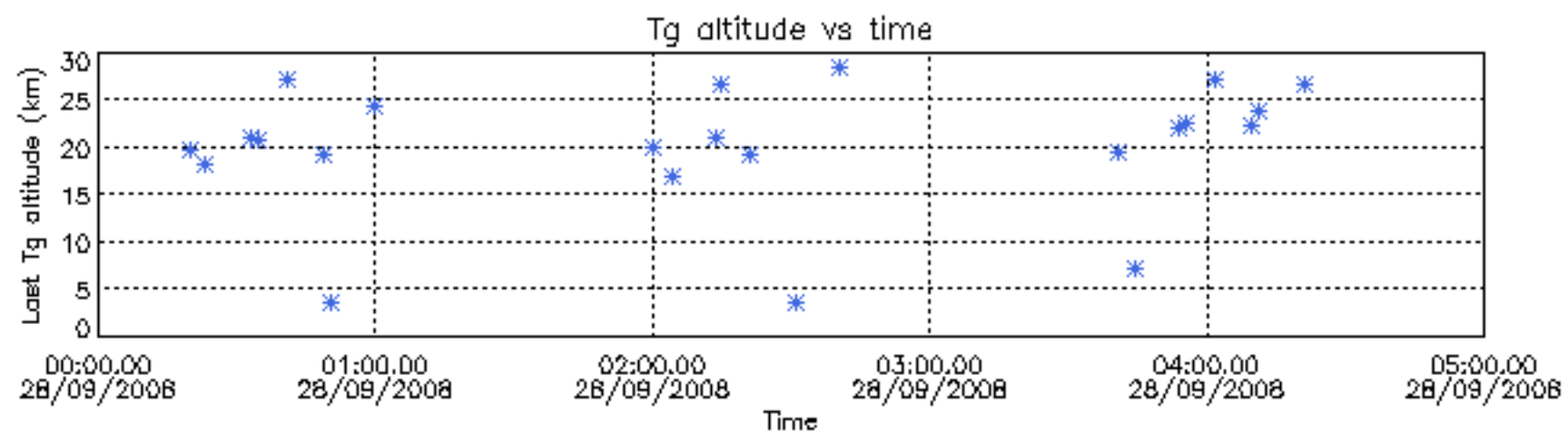
Percentage of saturation errors per profile



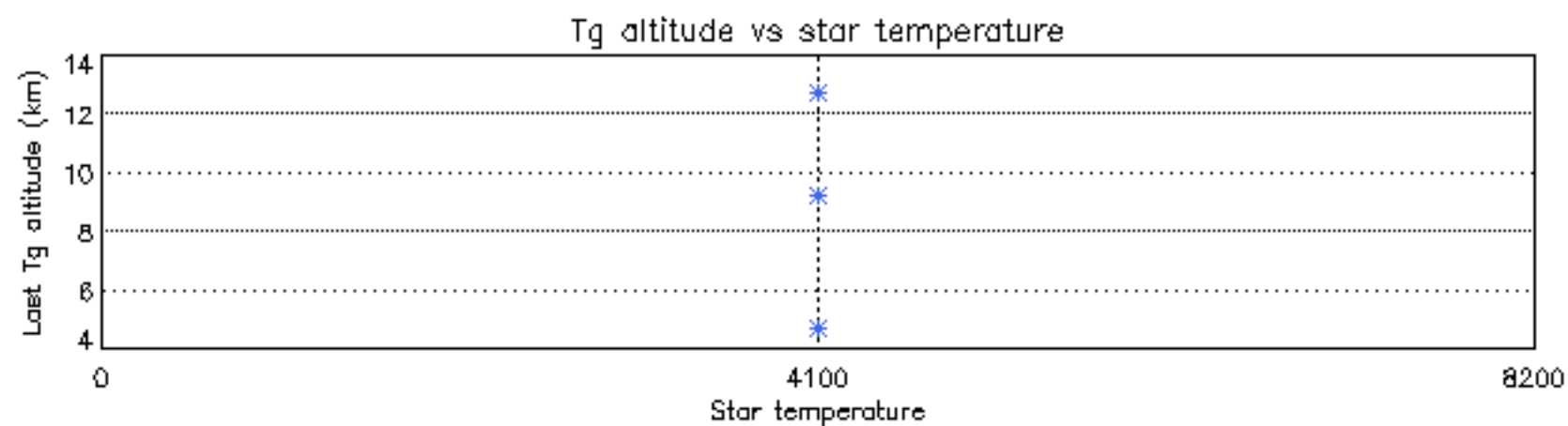
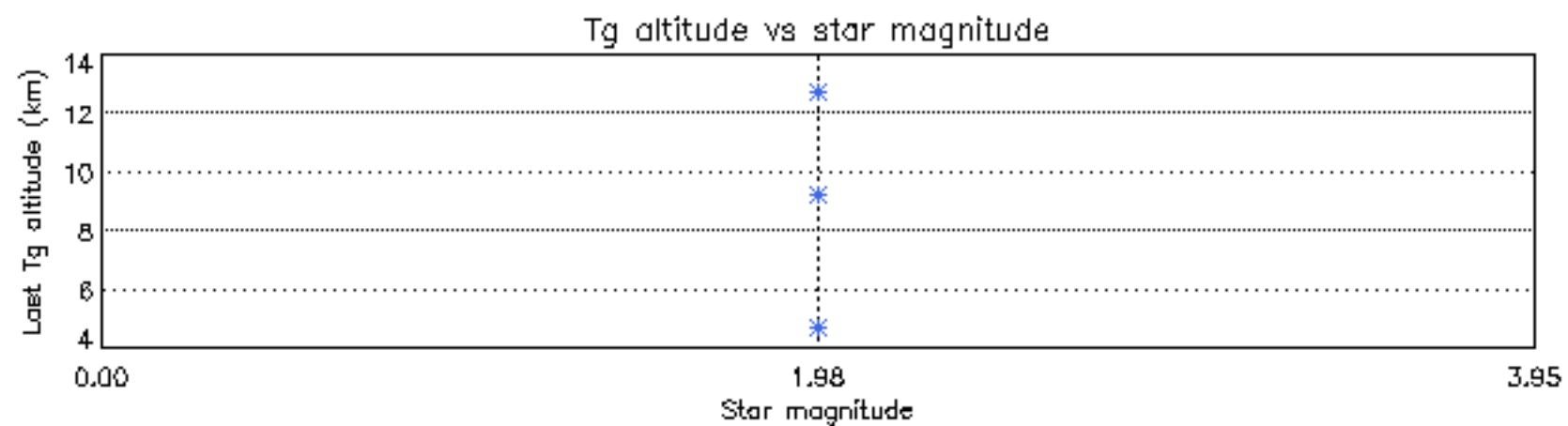
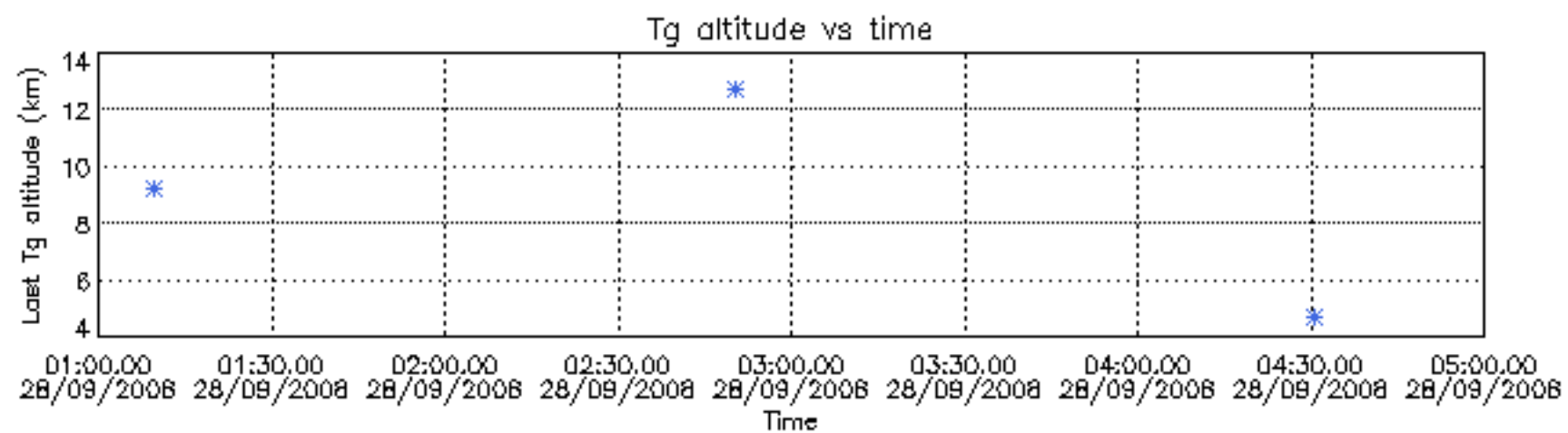
Tangent altitude at which the star is lost

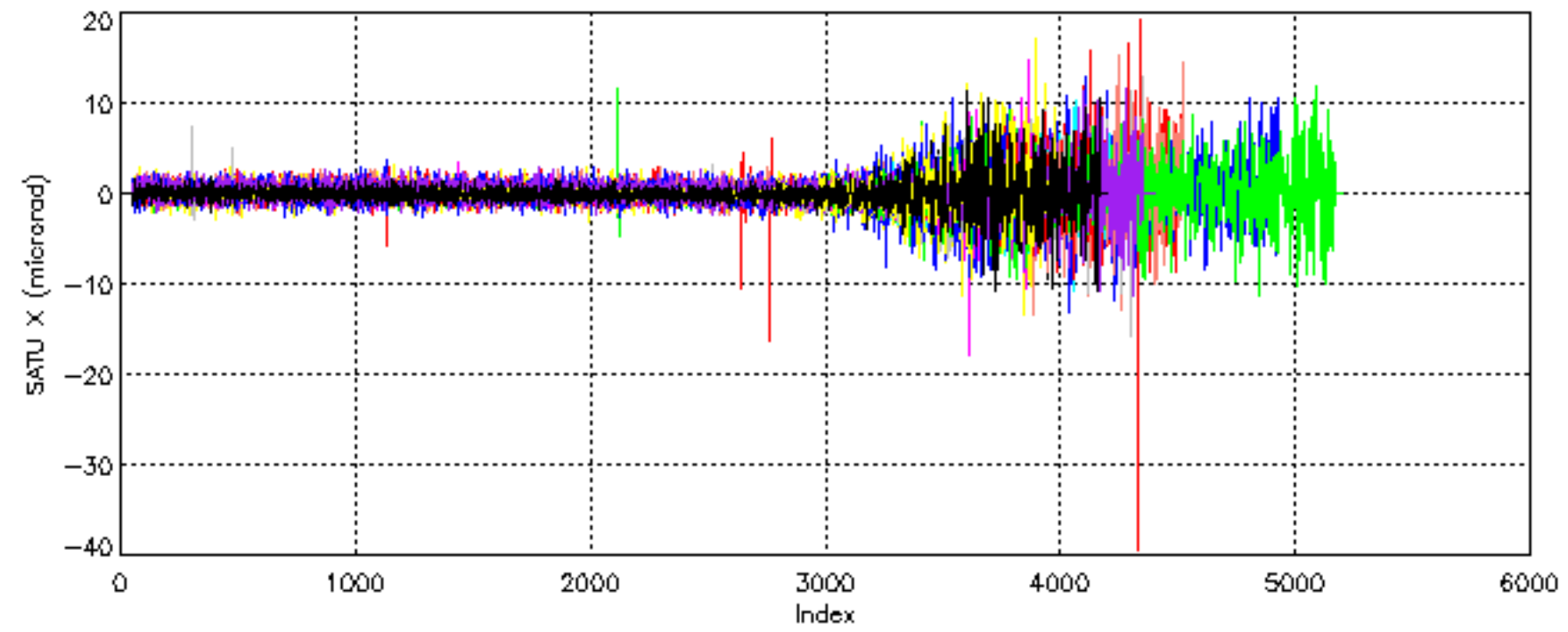


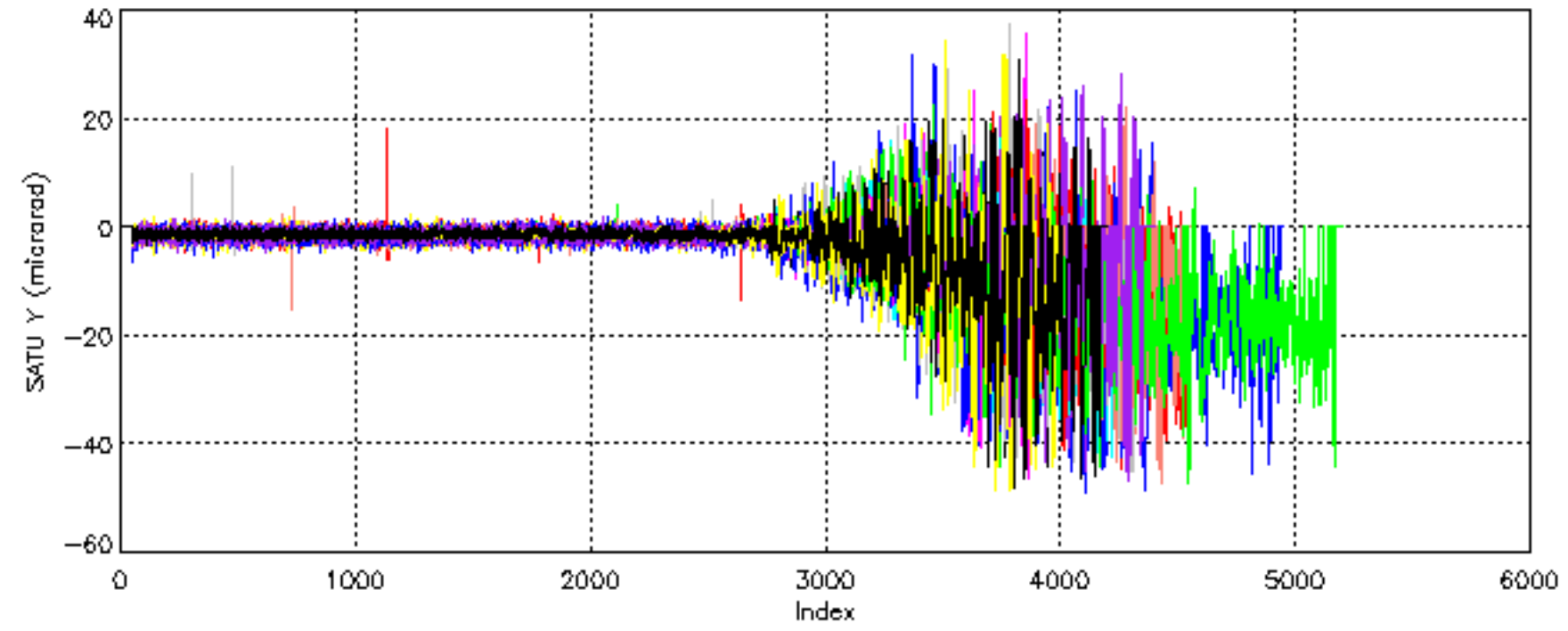
Tangent altitude at which the star is lost

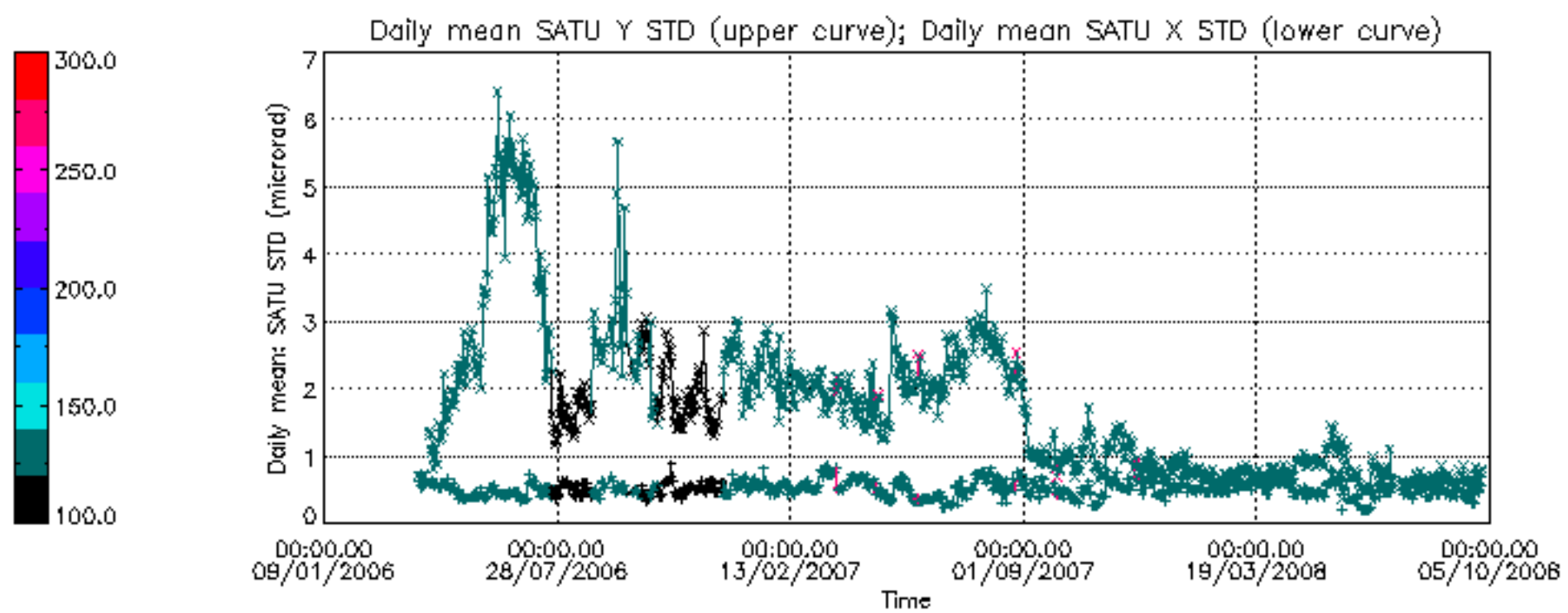


Tangent altitude at which the star is lost









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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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1; -1582.6; 01-SEP-2008 05:07:14; Bright; 36.5; 24; 66Alp Gem ; 1.58; 10200;occ; 73; 0;34012
 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
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2; 1088.6; 01-SEP-2008 20:57:08; Dark ; 38.5; 31; Alp Gru ; 1.73; 15200;occ; 77; 0;34022
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
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
14; 4920.2; 01-SEP-2008 22:01:00; Dark ; 47.0; 8; 10Alp CMi ; 0.40; 6500;occ; 94; 0;34022
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2; -487.3; 01-SEP-2008 22:11:28; Dark ; 41.5; 23; 21Eps CMa ; 1.50; 26000;occ; 83; 0;34022
3; -394.5; 01-SEP-2008 22:13:01; Dark ; 41.0; 117; Pi Pup ; 2.71; 3800;occ; 82; 0;34022
4; -271.7; 01-SEP-2008 22:15:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34022
5; -83.7; 01-SEP-2008 22:18:12; Dark ; 48.5; 2; Alp Car ;-0.74; 7000;occ; 97; 0;34022
6; 536.9; 01-SEP-2008 22:28:32; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;34023
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 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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 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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4; -0.0; 13-SEP-2008 00:54:47; Dark ; 56.0; 2; Alp Car ;-0.74; 7000;occ; 112; 0;34181
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14; 3019.8; 16-SEP-2008 21:58:04; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;34237
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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
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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
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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
15; 3012.0; 18-SEP-2008 05:49:19; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;34256
16; 3115.4; 18-SEP-2008 05:51:02; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;34256
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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
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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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13; 3109.4; 19-SEP-2008 00:17:32; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;34267
14; 4488.3; 19-SEP-2008 00:40:30; Bright; 46.5; 24; 66Alp Gem ; 1.58; 10200;occ; 93; 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
12; 3108.8; 19-SEP-2008 01:58:07; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 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
15; 3108.4; 19-SEP-2008 03:38:42; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;34269
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4; -429.5; 19-SEP-2008 04:20:20; Dark ; 65.5; 1; 9Alp CMA ; -1.44; 11000;occ; 131; 0;34269
5; -309.2; 19-SEP-2008 04:22:21; Dark ; 51.0; 23; 21Eps CMA ; 1.50; 26000;occ; 102; 0;34269
6; -82.5; 19-SEP-2008 04:26:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34269
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
10; 1534.7; 19-SEP-2008 04:53:05; Dark ; 57.5; 52; 16Bet Cet ; 2.04; 4500;occ; 115; 0;34270
11; 2172.6; 19-SEP-2008 05:03:43; Bright; 38.0; 90; 54Alp Peg ; 2.49; 11000;occ; 76; 0;34270
12; 2400.9; 19-SEP-2008 05:07:31; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;34270
13; 2505.1; 19-SEP-2008 05:09:15; Bright; 46.0; 58; 21Alp And ; 2.07; 11000;occ; 92; 0;34270
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4; -428.3; 19-SEP-2008 06:00:58; Dark ; 63.5; 1; 9Alp CMA ; -1.44; 11000;occ; 127; 0;34270
5; -308.3; 19-SEP-2008 06:02:58; Dark ; 48.5; 23; 21Eps CMA ; 1.50; 26000;occ; 97; 0;34270
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
9; 1087.8; 19-SEP-2008 06:26:14; Dark ; 44.5; 84; Alp Phe ; 2.40; 4500;occ; 89; 0;34271
10; 1534.8; 19-SEP-2008 06:33:41; Dark ; 52.0; 52; 16Bet Cet ; 2.04; 4500;occ; 104; 0;34271
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
 4; 1536.0; 19-SEP-2008 21:39:05; Dark ; 55.0; 52; 16Bet Cet ; 2.04; 4500;occ; 110; 0;34280
 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
 8; 3002.0; 19-SEP-2008 22:03:31; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;34280
 9; 3102.5; 19-SEP-2008 22:05:12; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;34280
 10; 4490.0; 19-SEP-2008 22:28:19; Bright; 48.5; 24; 66Alp Gem ; 1.58; 10200;occ; 97; 0;34280
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 3; -299.1; 19-SEP-2008 22:49:06; Dark ; 47.5; 23; 21Eps CMA ; 1.50; 26000;occ; 95; 0;34280
 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
 7; 1091.3; 19-SEP-2008 23:12:17; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 0;34281
 8; 1536.2; 19-SEP-2008 23:19:42; Dark ; 53.0; 52; 16Bet Cet ; 2.04; 4500;occ; 106; 0;34281
 9; 2171.1; 19-SEP-2008 23:30:16; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;34281
 10; 2398.8; 19-SEP-2008 23:34:04; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;34281
 11; 2498.7; 19-SEP-2008 23:35:44; Bright; 44.5; 58; 21Alp And ; 2.07; 11000;occ; 89; 0;34281
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 13; 3101.8; 19-SEP-2008 23:45:47; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;34281
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 3; -298.1; 20-SEP-2008 00:29:43; Dark ; 47.5; 23; 21Eps CMA ; 1.50; 26000;occ; 95; 0;34281
 4; -70.5; 20-SEP-2008 00:33:31; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;34281
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 7; 1091.7; 20-SEP-2008 00:52:53; Dark ; 42.0; 84; Alp Phe ; 2.40; 4500;occ; 84; 0;34282
 8; 1536.3; 20-SEP-2008 01:00:17; Dark ; 54.5; 52; 16Bet Cet ; 2.04; 4500;occ; 109; 0;34282
 9; 2171.1; 20-SEP-2008 01:10:52; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;34282
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 3; -297.2; 20-SEP-2008 02:10:20; Dark ; 52.0; 23; 21Eps CMA ; 1.50; 26000;occ; 104; 0;34282
 4; -69.5; 20-SEP-2008 02:14:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34282
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13; 3094.9; 20-SEP-2008 23:14:03; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;34295
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5; 8.1; 22-SEP-2008 22:59:59; Dark ; 40.0; 161; Tau Pup ; 2.93; 4500;occ; 80; 0;34324
6; 142.6; 22-SEP-2008 23:02:13; Dark ; 34.0; 108; Alp Col ; 2.65; 15200;occ; 68; 0;34324
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11; 2392.4; 22-SEP-2008 23:39:43; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;34324
12; 2476.8; 22-SEP-2008 23:41:07; Bright; 41.5; 58; 21Alp And ; 2.07; 11000;occ; 83; 0;34324
13; 2985.4; 22-SEP-2008 23:49:36; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;34324
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8; 769.3; 22-SEP-2008 08:07:16; Dark ; 51.5; 9; Alp Eri ; 0.45; 24000;occ; 103; 0;34315
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6; 3068.9; 24-SEP-2008 17:45:58; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;34349
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8; 5086.8; 24-SEP-2008 18:19:36; Dark ; 73.0; 8; 10Alp CMi ; 0.40; 6500;occ; 146; 0;34349
9; 5523.2; 24-SEP-2008 18:26:52; Dark ; 43.5; 132; 15Rho Pup ; 2.80; 6900;occ; 87; 0;34349
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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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4; -310.0; 25-SEP-2008 06:14:26; Dark ; 48.0; 88; 31Eta CMA ; 2.45; 20000;occ; 96; 0;34356
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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 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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 5; -91.3; 25-SEP-2008 21:23:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34365
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12; 6903.2; 26-SEP-2008 09:23:39; Dark ; 51.5; 157; The1Eri ; 2.91; 9300;occ; 103; 0;34372
13; 7158.8; 26-SEP-2008 09:27:54; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;34372
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3; 2969.2; 26-SEP-2008 09:58:40; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;34373
4; 3058.1; 26-SEP-2008 10:00:09; Bright; 56.5; 76; 27Gam Cas ; 2.30; 30000;occ; 113; 0;34373
5; 4585.7; 26-SEP-2008 10:25:37; Bright; 53.0; 17; 78Bet Gem ; 1.16; 4500;occ; 106; 0;34373
6; 5106.2; 26-SEP-2008 10:34:17; Dark ; 28.0; 8; 10Alp CMi ; 0.40; 6500;occ; 56; 0;34373
7; 5539.7; 26-SEP-2008 10:41:31; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;34373
8; 5741.9; 26-SEP-2008 10:44:53; Dark ; 47.5; 88; 31Eta CMa ; 2.45; 20000;occ; 95; 0;34373
9; 5833.8; 26-SEP-2008 10:46:25; Dark ; 52.5; 23; 21Eps CMa ; 1.50; 26000;occ; 105; 0;34373
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13; 7159.1; 26-SEP-2008 11:08:30; Dark ; 39.5; 84; Alp Phe ; 2.40; 4500;occ; 79; 0;34373
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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
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8; 5835.0; 26-SEP-2008 12:27:02; Dark ; 50.5; 23; 21Eps CMA ; 1.50; 26000;occ; 101; 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
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11; 6905.6; 26-SEP-2008 14:25:29; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;34375
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3; 2387.9; 26-SEP-2008 14:50:47; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;34376
4; 2968.3; 26-SEP-2008 15:00:27; Bright; 36.0; 74; 11Bet Cas ; 2.27; 6600;occ; 72; 0;34376
5; 3056.8; 26-SEP-2008 15:01:56; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34376
6; 4586.4; 26-SEP-2008 15:27:25; Bright; 52.5; 17; 78Bet Gem ; 1.16; 4500;occ; 105; 0;34376
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4; 2387.8; 26-SEP-2008 16:31:23; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;34377
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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
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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; 2869.5; 27-SEP-2008 07:44:48; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34386
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7; 2870.4; 27-SEP-2008 09:25:25; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
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13; 4278.7; 27-SEP-2008 09:48:53; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
14; 4732.6; 27-SEP-2008 09:56:27; Bright; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
15; 5000.2; 27-SEP-2008 10:00:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
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17; 5500.5; 27-SEP-2008 10:09:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;34387
18; 5813.8; 27-SEP-2008 10:14:28; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;34387
19; 6784.3; 27-SEP-2008 10:30:39; Dark ; 105.0; 9; Alp Eri ; 0.45; 24000;occ; 210; 0;34387
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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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 5; 3849.3; 27-SEP-2008 13:02:55; Bright; 87.0; 36; 50Alp UMa ; 1.80; 6300;occ; 174; 0;34389
 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
 8; 5493.5; 27-SEP-2008 13:30:20; Dark ; 104.0; 132; 15Rho Pup ; 2.80; 6900;occ; 208; 0;34389
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10; 5821.2; 27-SEP-2008 13:35:47; Dark ; 90.5; 34; Gam2Vel ; 1.79; 23000;occ; 181; 0;34389
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13; 6750.1; 27-SEP-2008 13:51:16; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;34389
14; 6837.6; 27-SEP-2008 13:52:44; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;34389
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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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5; 2951.2; 30-SEP-2008 19:36:06; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;34436
6; 3031.7; 30-SEP-2008 19:37:27; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;34436
7; 3428.6; 30-SEP-2008 19:44:04; Bright; 36.5; 49; 1Alp UMi ; 1.99; 6300;occ; 73; 0;34436
8; 3905.7; 30-SEP-2008 19:52:01; Bright; 36.5; 36; 50Alp UMA ; 1.80; 6300;occ; 73; 0;34436
9; 3995.8; 30-SEP-2008 19:53:31; Bright; 35.5; 82; 48Bet UMA ; 2.37; 10600;occ; 71; 0;34436
10; 4588.0; 30-SEP-2008 20:03:23; Bright; 35.5; 166; 17Eps Leo ; 2.98; 6000;occ; 71; 0;34436
11; 5161.9; 30-SEP-2008 20:12:57; Dark ; 49.5; 48; 30Alp Hya ; 1.98; 4100;occ; 99; 0;34436
12; 5742.5; 30-SEP-2008 20:22:38; Dark ; 43.5; 65; Lam Vel ; 2.20; 4400;occ; 87; 0;34436
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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