

GOMOS Daily Report 01-SEP-2006

Level 0 and Level 1 products

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1. General Info

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	03SEP2006 04:33:06
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (01SEP2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (02SEP2006 00:00:00)
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)

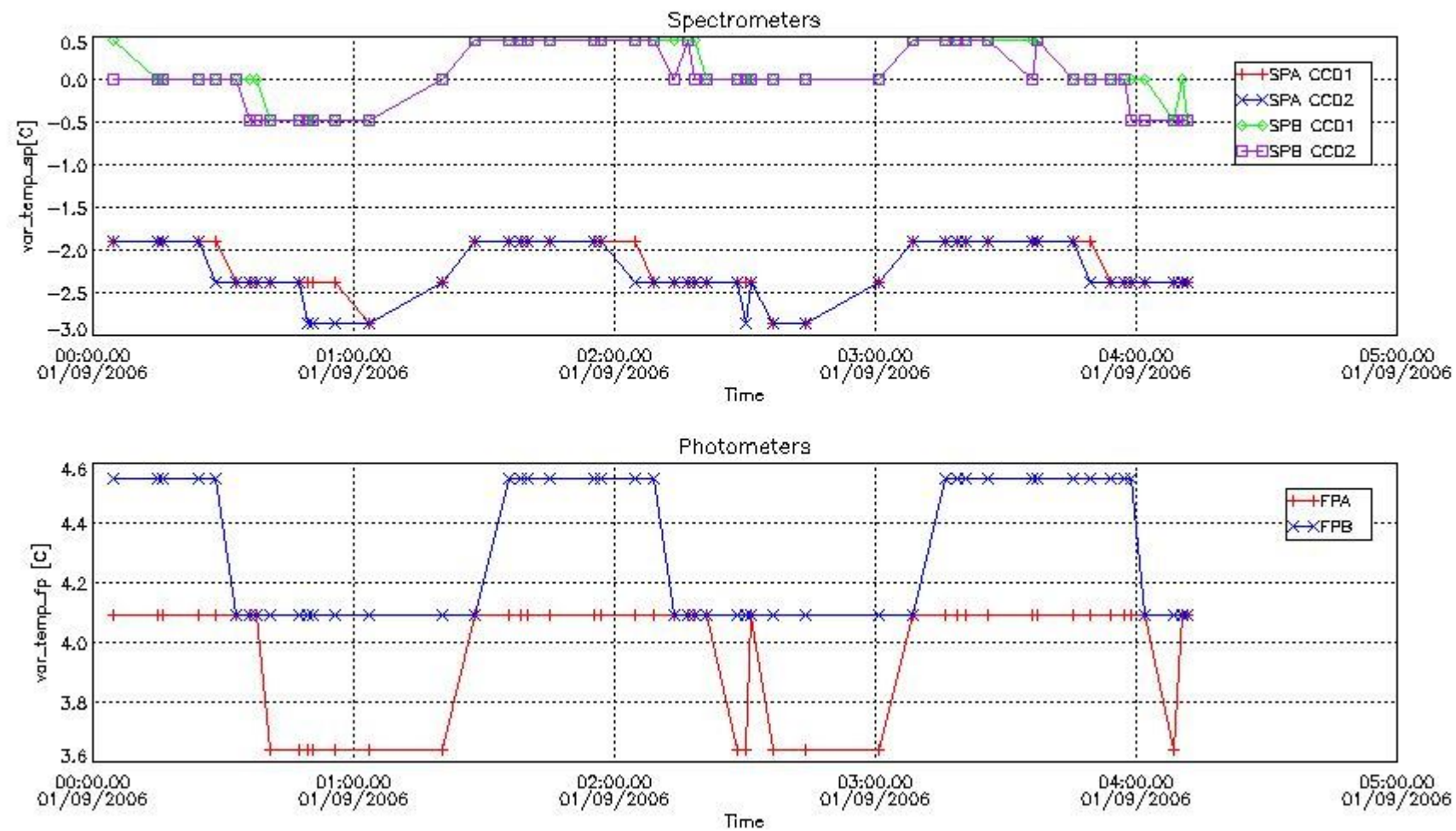
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 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_1PNPDE20060901_000432_000000492050_00445_23545_1145.N1	01-SEP-2006 00:04:32	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	23545	No
2	GOM_TRA_1PNPDE20060901_001451_000000402050_00446_23546_1146.N1	01-SEP-2006 00:14:51	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	23546	No
3	GOM_TRA_1PNPDE20060901_001608_000000432050_00446_23546_1147.N1	01-SEP-2006 00:16:08	Dark	43.000	9	Alp Eri	0.45300	24000.	86	23546	No
4	GOM_TRA_1PNPDE20060901_002409_000000382050_00446_23546_1148.N1	01-SEP-2006 00:24:09	Straylight	38.000	31	Alp Gru	1.7340	15200.	76	23546	No
5	GOM_TRA_1PNPDE20060901_002814_000000502050_00446_23546_1149.N1	01-SEP-2006 00:28:14	Straylight	50.000	18	24Alp PsA	1.1660	9700.0	100	23546	No
6	GOM_TRA_1PNPDE20060901_003304_000000422050_00446_23546_1150.N1	01-SEP-2006 00:33:04	Bright	41.500	142	49Del Cap	2.8500	8900.0	83	23546	No
7	GOM_TRA_1PNPDE20060901_003612_000000392050_00446_23546_1151.N1	01-SEP-2006 00:36:12	Bright	38.500	154	22Bet Aqr	2.8990	5700.0	77	23546	No
8	GOM_TRA_1PNPDE20060901_003741_000000402050_00446_23546_1152.N1	01-SEP-2006 00:37:41	Bright	40.000	162	34Alp Aqr	2.9440	5350.0	80	23546	No
9	GOM_TRA_1PNPDE20060901_004041_000000392050_00446_23546_1153.N1	01-SEP-2006 00:40:41	Bright	38.500	61	8Eps Peg	2.1000	3900.0	77	23546	No
10	GOM_TRA_1PNPDE20060901_004733_000000362050_00446_23546_1154.N1	01-SEP-2006 00:47:33	Bright	36.000	92	53Eps Cyg	2.5000	4500.0	72	23546	No
11	GOM_TRA_1PNPDE20060901_004925_000000342050_00446_23546_1155.N1	01-SEP-2006 00:49:25	Bright	33.500	66	37Gam Cyg	2.2080	5900.0	67	23546	No
12	GOM_TRA_1PNPDE20060901_005043_000000372050_00446_23546_1156.N1	01-SEP-2006 00:50:43	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	23546	No
13	GOM_TRA_1PNPDE20060901_005541_000000362050_00446_23546_1157.N1	01-SEP-2006 00:55:41	Bright	36.000	89	5Alp Cep	2.4510	8000.0	72	23546	No
14	GOM_TRA_1PNPDE20060901_010320_000000362050_00446_23546_1158.N1	01-SEP-2006 01:03:20	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	23546	No
15	GOM_TRA_1PNPDE20060901_012017_000000552050_00446_23546_1159.N1	01-SEP-2006 01:20:17	Bright	55.000	24	66Alp Gem	1.5800	10200.	110	23546	No
16	GOM_TRA_1PNPDE20060901_012800_000000432050_00446_23546_1160.N1	01-SEP-2006 01:28:00	Twilight	43.000	8	10Alp CMi	0.40000	6500.0	86	23546	No
17	GOM_TRA_1PNPDE20060901_013538_000000502050_00446_23546_1144.N1	01-SEP-2006 01:35:38	Dark	49.500	1	9Alp CMa	-1.4400	11000.	99	23546	No
18	GOM_TRA_1PNPDE20060901_013824_000000432050_00446_23546_1145.N1	01-SEP-2006 01:38:24	Dark	42.500	23	21Eps CMa	1.5020	26000.	85	23546	No
19	GOM_TRA_1PNPDE20060901_013959_000000452050_00446_23546_1146.N1	01-SEP-2006 01:39:59	Dark	45.000	117	Pi Pup	2.7060	3800.0	90	23546	No
20	GOM_TRA_1PNPDE20060901_014509_000000452050_00446_23546_1147.N1	01-SEP-2006 01:45:09	Dark	44.500	2	Alp Car	-0.73600	7000.0	89	23546	No
21	GOM_TRA_1PNPDE20060901_015528_000000392050_00447_23547_1148.N1	01-SEP-2006 01:55:28	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	23547	No
22	GOM_TRA_1PNPDE20060901_015644_000000452050_00447_23547_1149.N1	01-SEP-2006 01:56:44	Dark	44.500	9	Alp Eri	0.45300	24000.	89	23547	No
23	GOM_TRA_1PNPDE20060901_020445_000000392050_00447_23547_1150.N1	01-SEP-2006 02:04:45	Straylight	38.500	31	Alp Gru	1.7340	15200.	77	23547	No
24	GOM_TRA_1PNPDE20060901_020850_000000512050_00447_23547_1151.N1	01-SEP-2006 02:08:50	Straylight	50.500	18	24Alp PsA	1.1660	9700.0	101	23547	No
25	GOM_TRA_1PNPDE20060901_021340_000000502050_00447_23547_1152.N1	01-SEP-2006 02:13:40	Bright	49.500	142	49Del Cap	2.8500	8900.0	99	23547	No
26	GOM_TRA_1PNPDE20060901_021648_000000382050_00447_23547_1153.N1	01-SEP-2006 02:16:48	Bright	38.000	154	22Bet Aqr	2.8990	5700.0	76	23547	No
27	GOM_TRA_1PNPDE20060901_021817_000000402050_00447_23547_1154.N1	01-SEP-2006 02:18:17	Bright	40.000	162	34Alp Aqr	2.9440	5350.0	80	23547	No
28	GOM_TRA_1PNPDE20060901_022117_000000382050_00447_23547_1155.N1	01-SEP-2006 02:21:17	Bright	38.000	61	8Eps Peg	2.1000	3900.0	76	23547	No
29	GOM_TRA_1PNPDE20060901_022809_000000382050_00447_23547_1156.N1	01-SEP-2006 02:28:09	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	23547	No
30	GOM_TRA_1PNPDE20060901_023001_000000352050_00447_23547_1157.N1	01-SEP-2006 02:30:01	Bright	35.000	66	37Gam Cyg	2.2080	5900.0	70	23547	No
31	GOM_TRA_1PNPDE20060901_023119_000000352050_00447_23547_1158.N1	01-SEP-2006 02:31:19	Bright	34.500	19	50Alp Cyg	1.2460	10500.	69	23547	No
32	GOM_TRA_1PNPDE20060901_023617_000000372050_00447_23547_1159.N1	01-SEP-2006 02:36:17	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	23547	No
33	GOM_TRA_1PNPDE20060901_024356_000000332050_00447_23547_1160.N1	01-SEP-2006 02:43:56	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	23547	No
34	GOM_TRA_1PNPDE20060901_030053_000000512050_00447_23547_1145.N1	01-SEP-2006 03:00:53	Bright	51.000	24	66Alp Gem	1.5800	10200.	102	23547	No
35	GOM_TRA_1PNPDE20060901_030836_000000432050_00447_23547_1146.N1	01-SEP-2006 03:08:36	Twilight	42.500	8	10Alp CMi	0.40000	6500.0	85	23547	No
36	GOM_TRA_1PNPDE20060901_031614_000000482050_00447_23547_1147.N1	01-SEP-2006 03:16:14	Dark	47.500	1	9Alp CMa	-1.4400	11000.	95	23547	No
37	GOM_TRA_1PNPDE20060901_031900_000000422050_00447_23547_1148.N1	01-SEP-2006 03:19:00	Dark	41.500	23	21Eps CMa	1.5020	26000.	83	23547	No
38	GOM_TRA_1PNPDE20060901_032035_000000452050_00447_23547_1149.N1	01-SEP-2006 03:20:35	Dark	44.500	117	Pi Pup	2.7060	3800.0	89	23547	No
39	GOM_TRA_1PNPDE20060901_032545_000000462050_00447_23547_1150.N1	01-SEP-2006 03:25:45	Dark	45.500	2	Alp Car	-0.73600	7000.0	91	23547	No
40	GOM_TRA_1PNPDE20060901_033604_000000392050_00448_23548_1151.N1	01-SEP-2006 03:36:04	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	23548	No
41	GOM_TRA_1PNPDE20060901_033721_000000472050_00448_23548_1152.N1	01-SEP-2006 03:37:21	Dark	46.500	9	Alp Eri	0.45300	24000.	93	23548	No
42	GOM_TRA_1PNPDE20060901_034522_000000442050_00448_23548_1153.N1	01-SEP-2006 03:45:22	Straylight	44.000	31	Alp Gru	1.7340	15200.	88	23548	No

43	GOM_TRA_1PNPDE20060901_034926_000000492050_00448_23548_1154.N1	01-SEP-2006 03:49:26	Straylight	48.500	18	24Alp PsA	1.1660	9700.0	97	23548	No
44	GOM_TRA_1PNPDE20060901_035416_000000532050_00448_23548_1155.N1	01-SEP-2006 03:54:16	Bright	53.000	142	49Del Cap	2.8500	8900.0	106	23548	No
45	GOM_TRA_1PNPDE20060901_035724_000000382050_00448_23548_1156.N1	01-SEP-2006 03:57:24	Bright	38.000	154	22Bet Aqr	2.8990	5700.0	76	23548	No
46	GOM_TRA_1PNPDE20060901_035853_000000402050_00448_23548_1157.N1	01-SEP-2006 03:58:53	Bright	39.500	162	34Alp Aqr	2.9440	5350.0	79	23548	No
47	GOM_TRA_1PNPDE20060901_040153_000000392050_00448_23548_1158.N1	01-SEP-2006 04:01:53	Bright	39.000	61	8Eps Peg	2.1000	3900.0	78	23548	No
48	GOM_TRA_1PNPDE20060901_040845_000000352050_00448_23548_1159.N1	01-SEP-2006 04:08:45	Bright	34.500	92	53Eps Cyg	2.5000	4500.0	69	23548	No
49	GOM_TRA_1PNPDE20060901_041038_000000362050_00448_23548_1160.N1	01-SEP-2006 04:10:38	Bright	35.500	66	37Gam Cyg	2.2080	5900.0	71	23548	No
50	GOM_TRA_1PNPDE20060901_041155_000000362050_00448_23548_1161.N1	01-SEP-2006 04:11:55	Bright	36.000	19	50Alp Cyg	1.2460	10500.	72	23548	No

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



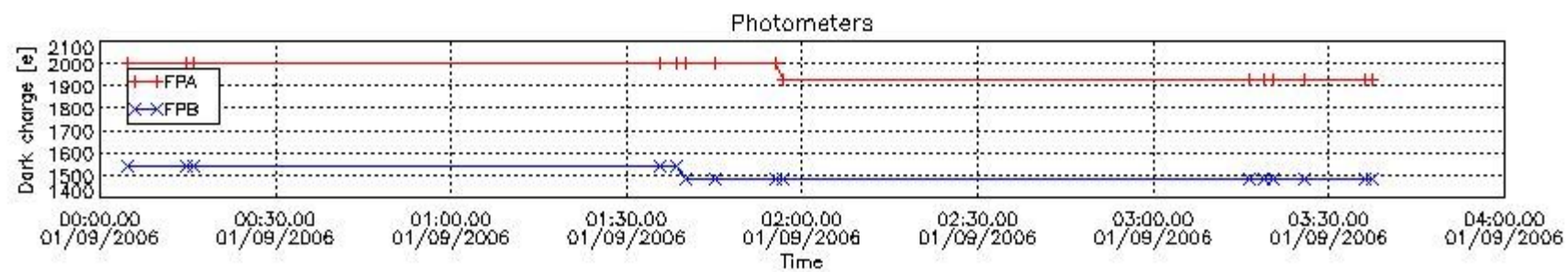
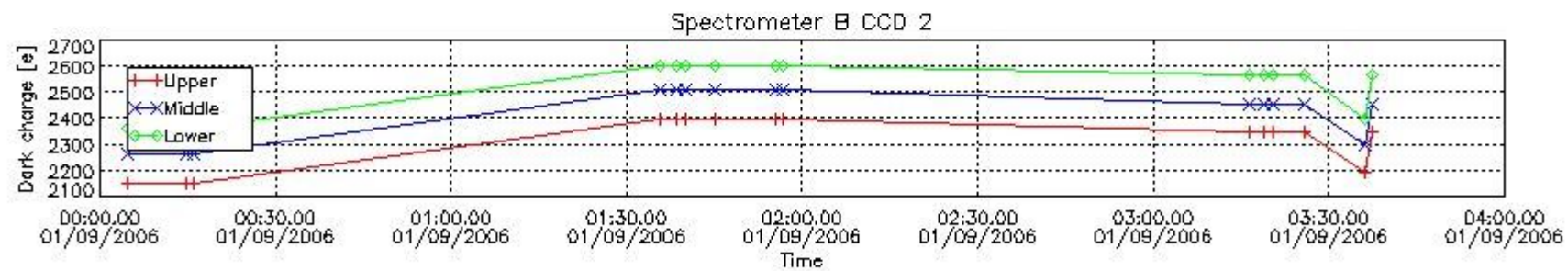
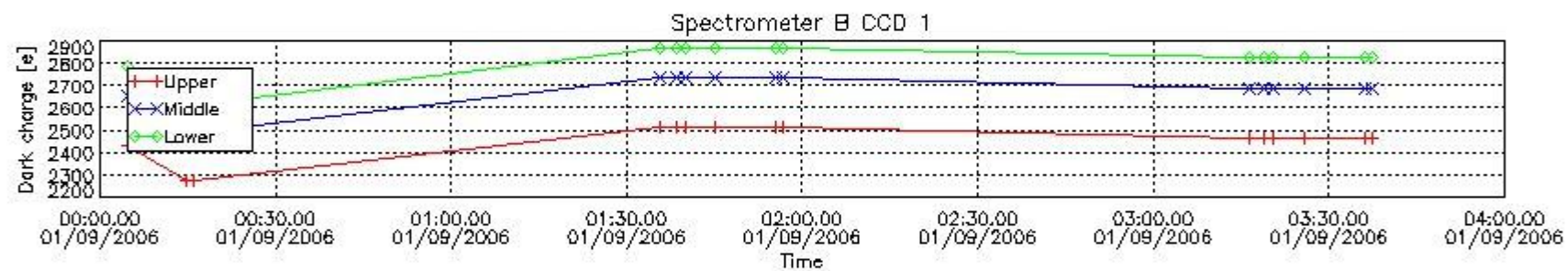
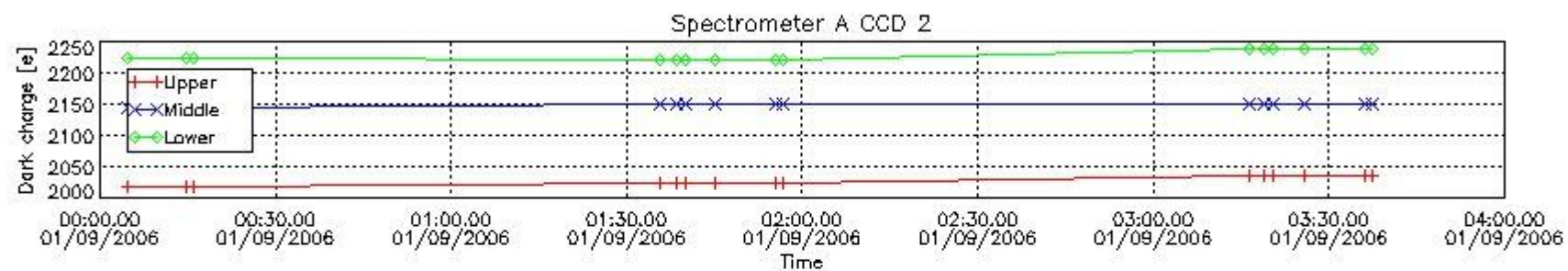
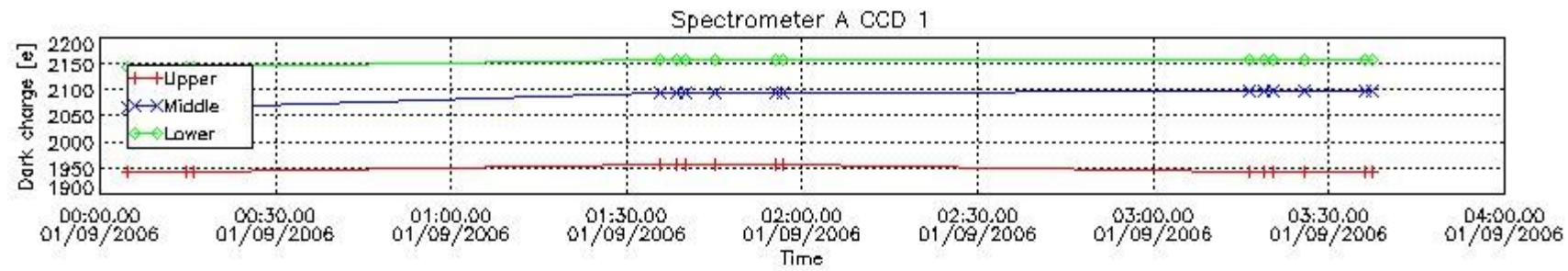
4. Overview of dark signal processing per product

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



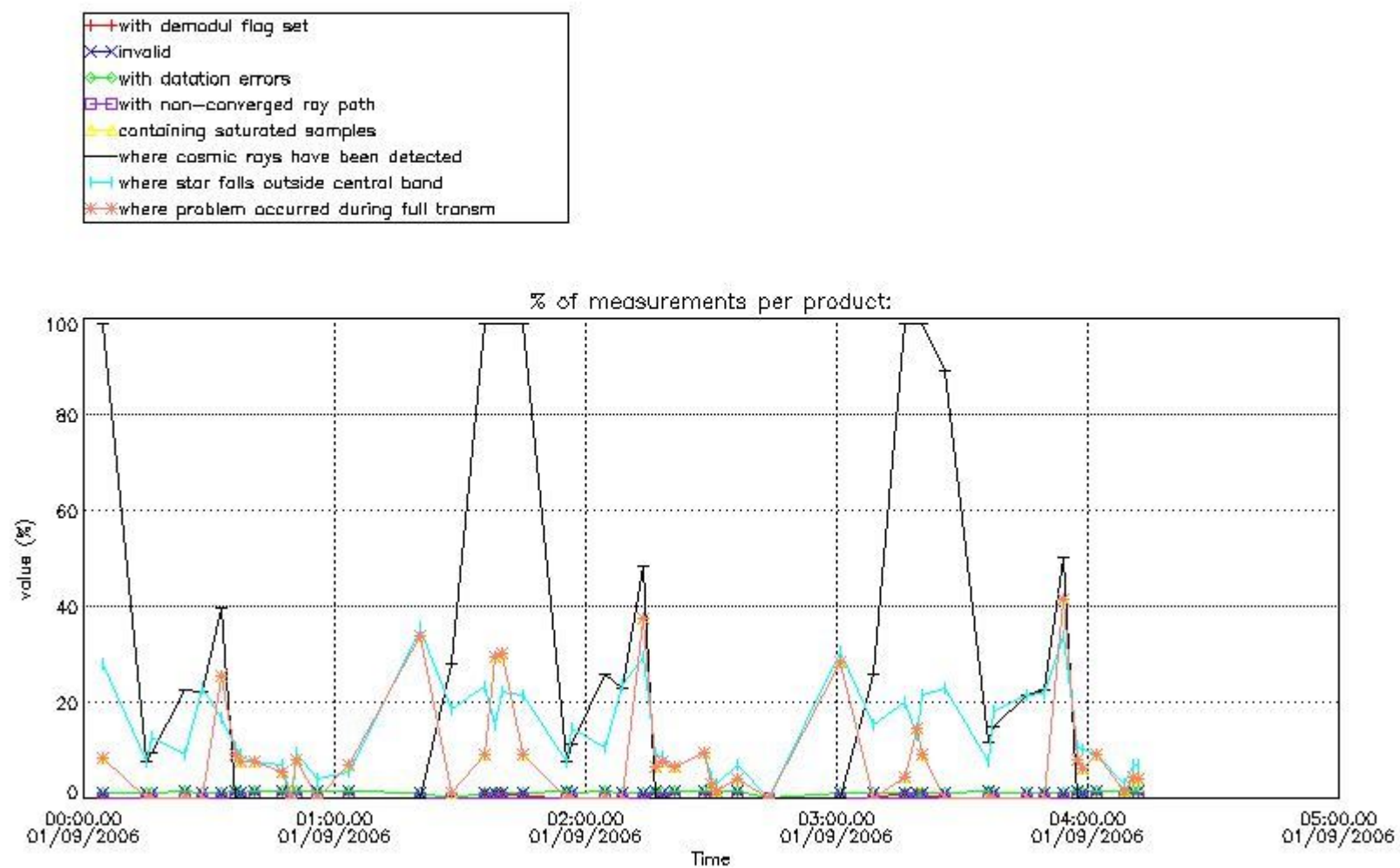
5. Demodulation flag and quality information monitoring

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.

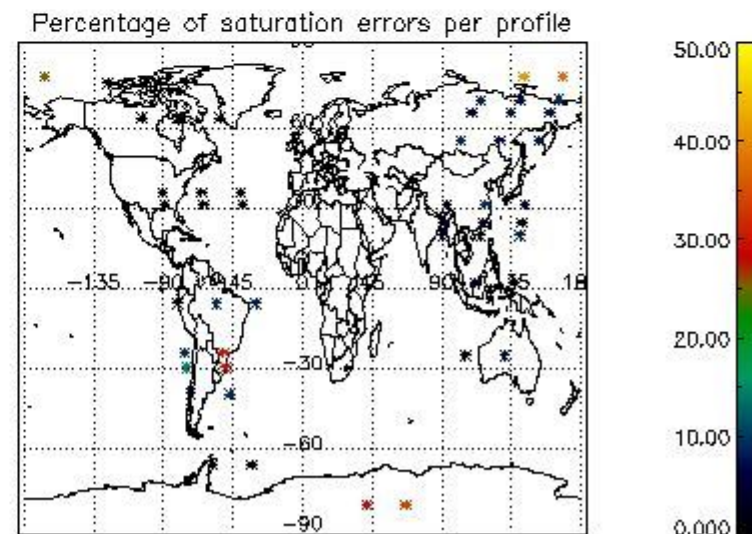
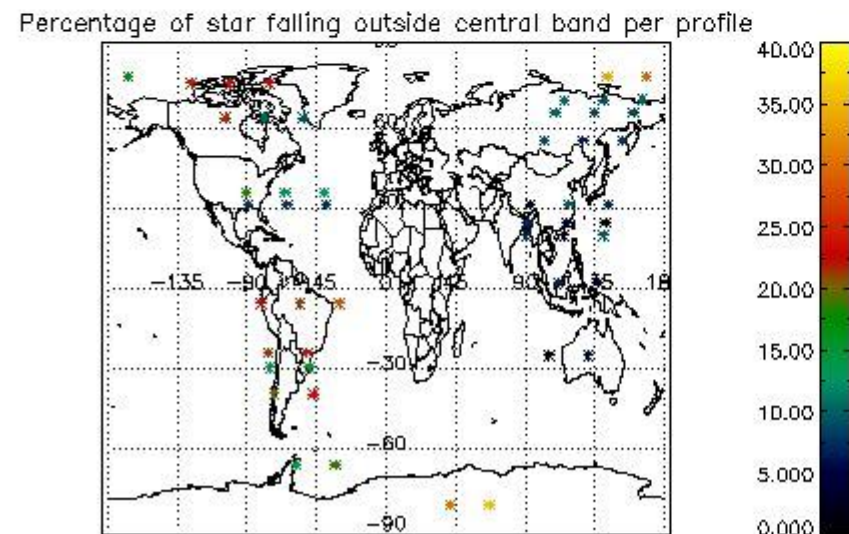
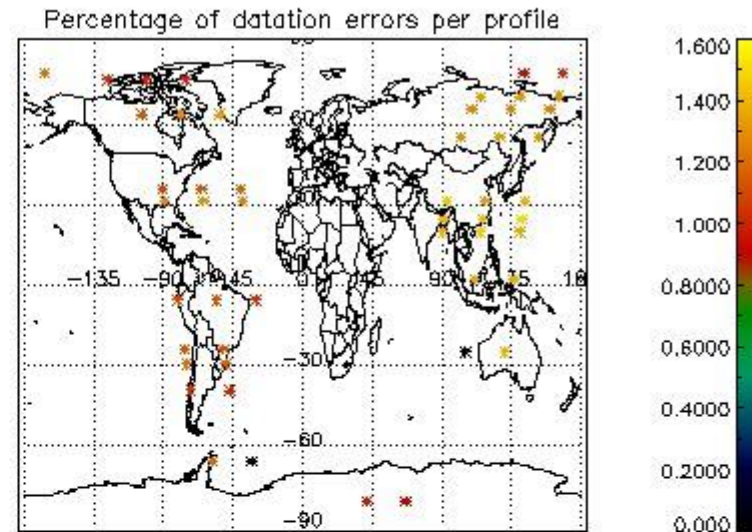
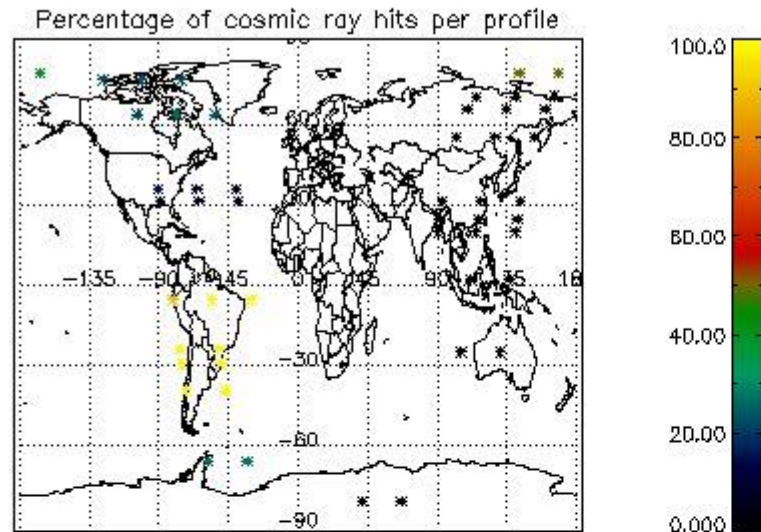
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	22.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



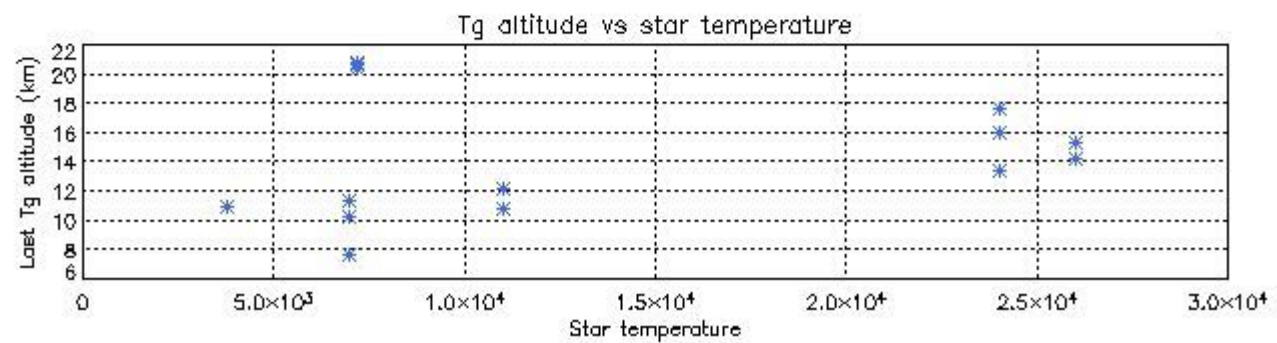
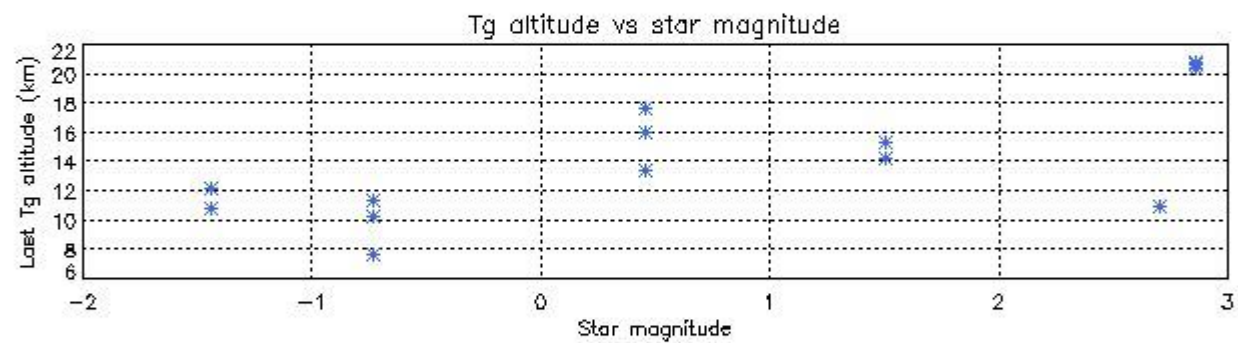
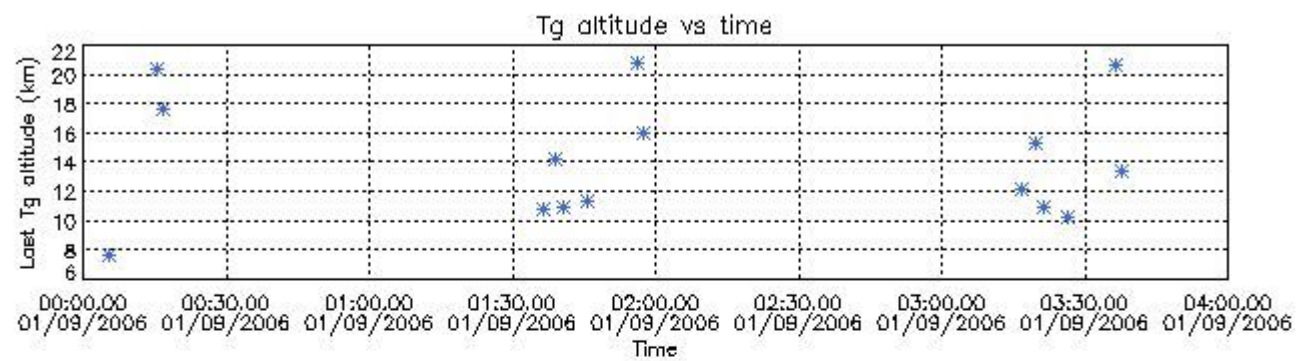
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.140	17.925	12.674
St. deviation:	4.1662	6.0300	0.43235
Maximum:	20.741	29.471	12.980
Minimum:	7.6192	3.7875	12.368
Number of data:	15.000	27.000	2.0000

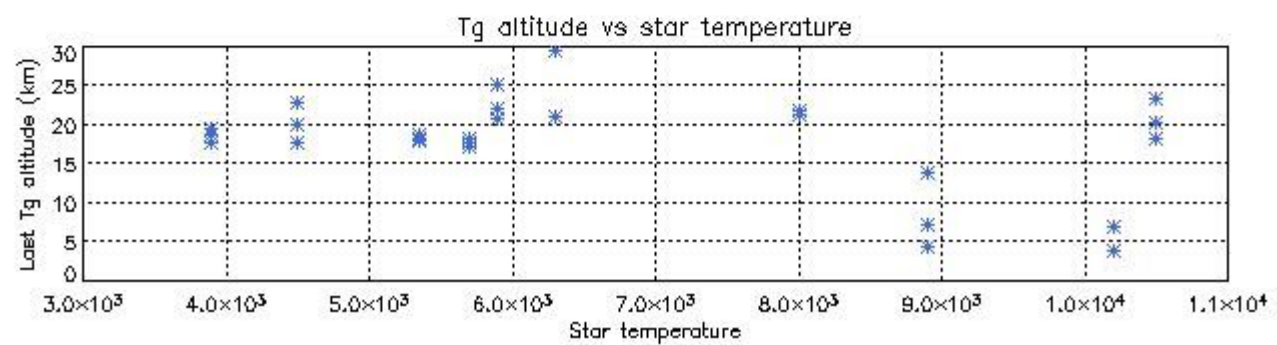
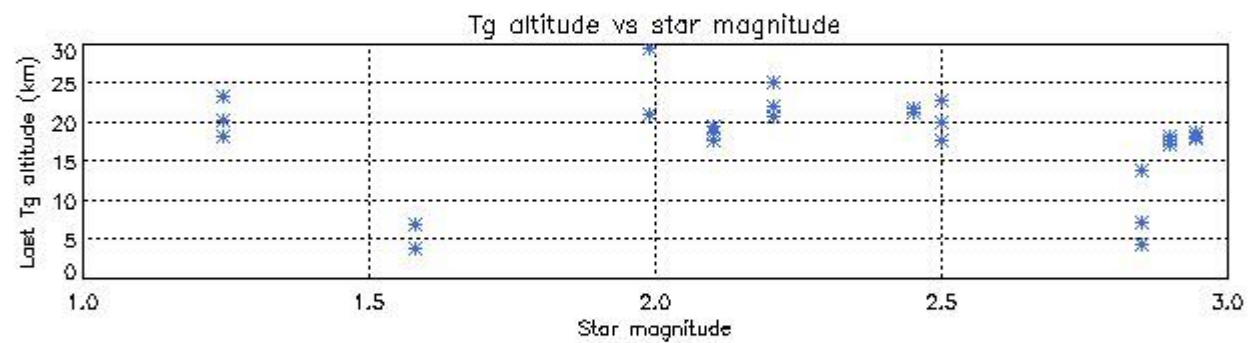
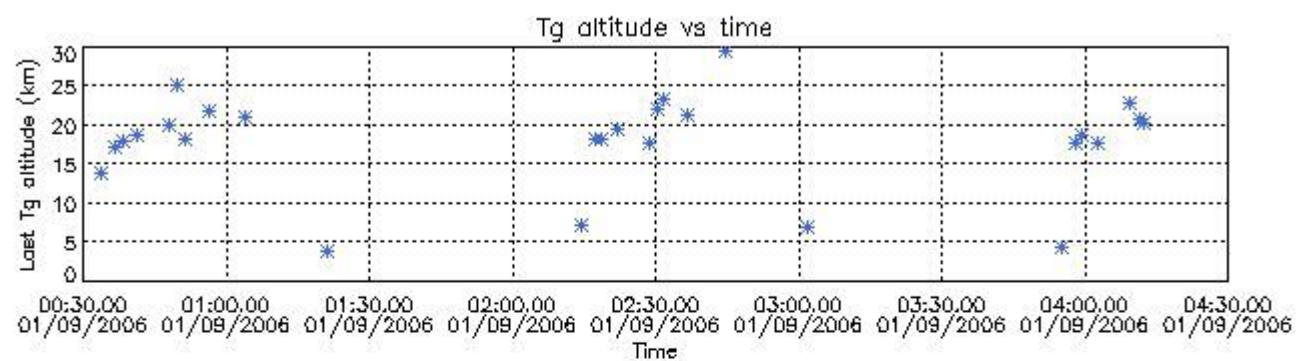
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



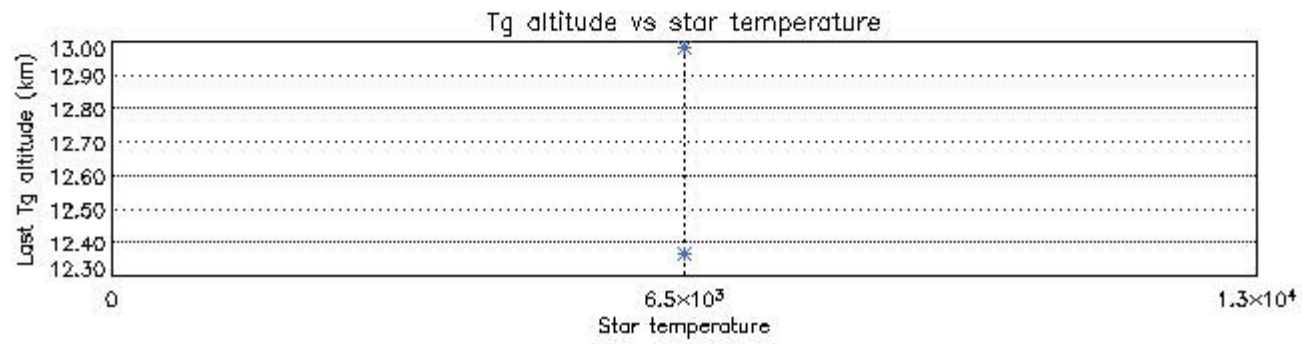
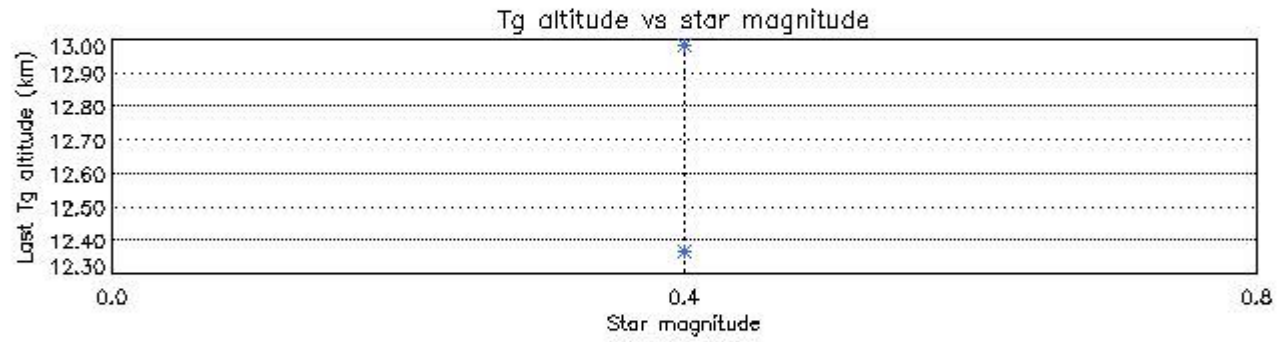
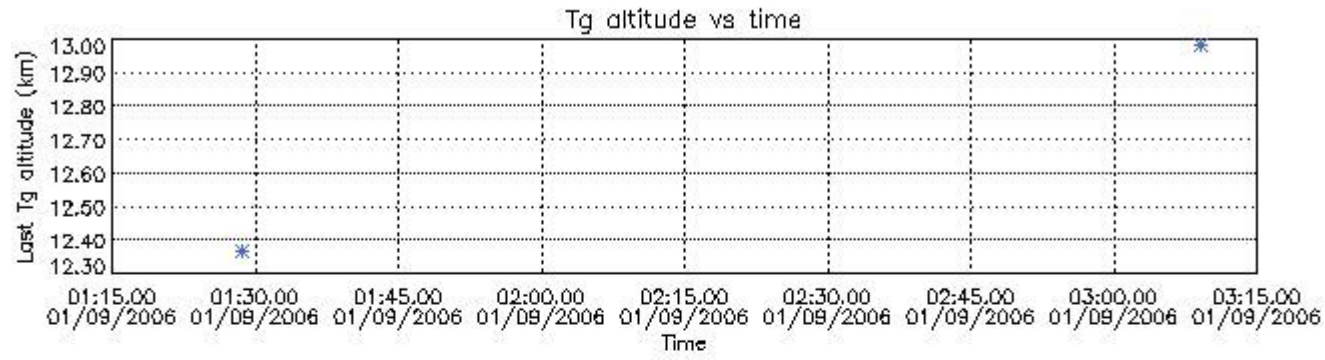
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

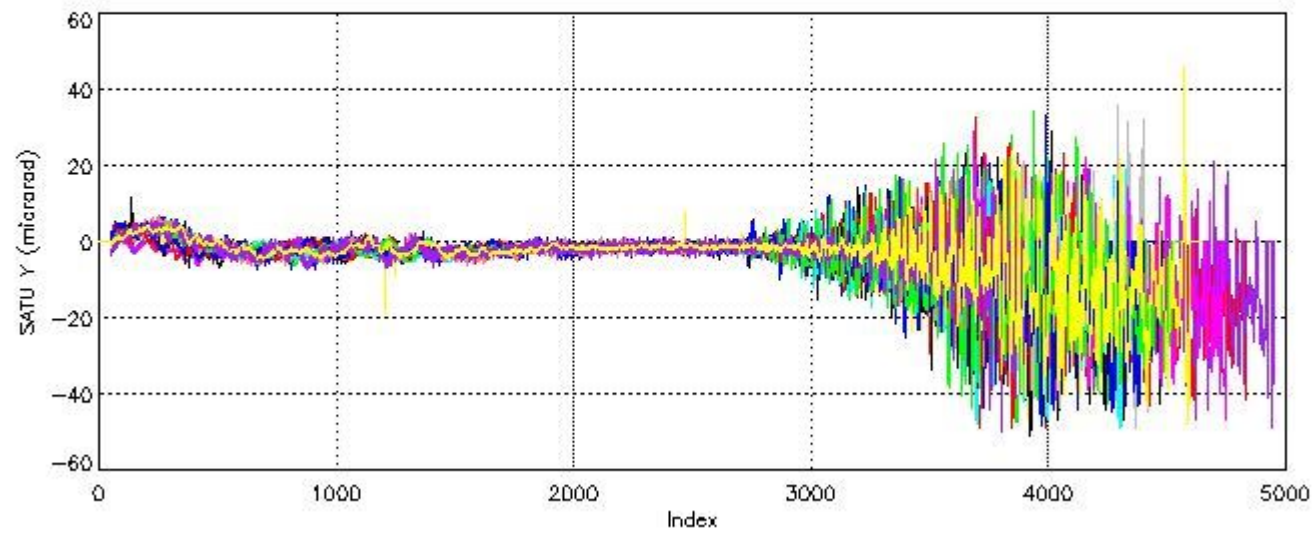
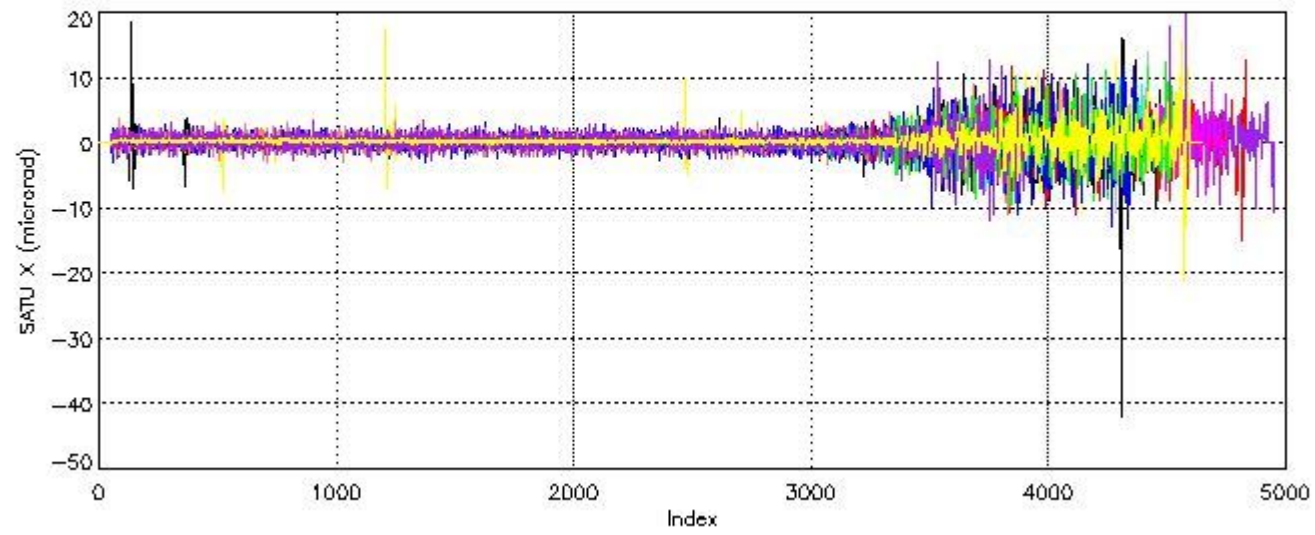


7. Star Acquisition and Tracking Unit (SATU)

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.

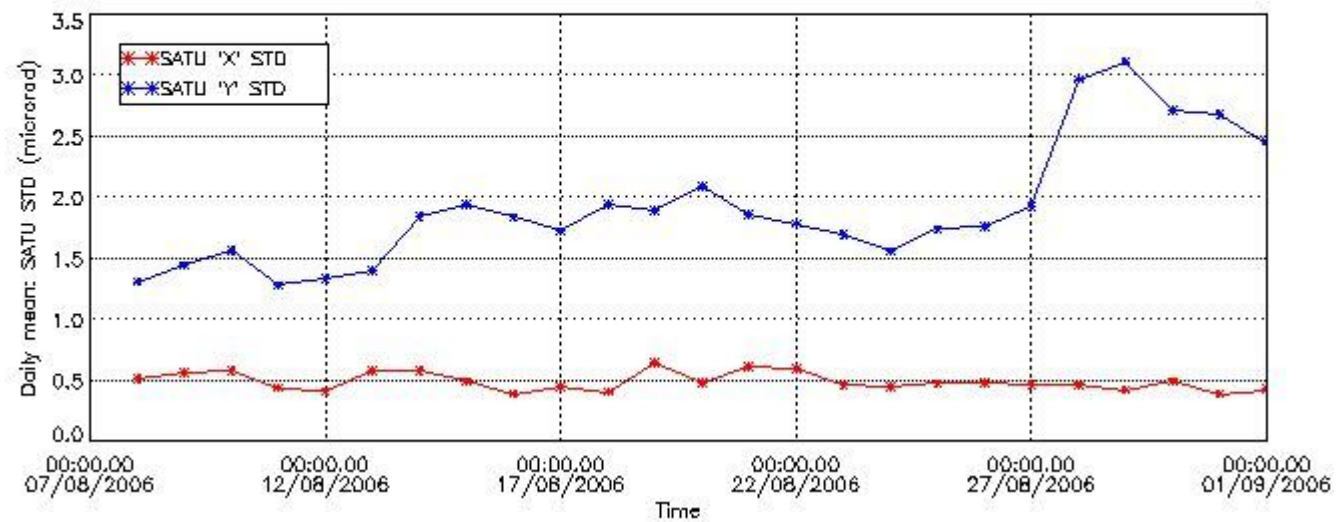
7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.14241	-0.83684	0.12280	-0.95319
St. deviation:	0.42366	2.4561	0.62381	2.5911
Maximum:	18.500	11.500	3.3000	7.2000
Minimum:	-0.40000	-4.8000	-1.1000	-5.7000

Number of data:	14250.	14250.	22750.	22750.
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7.2.2 Trend of daily SATU NEA St. deviation during the last two months (dark limb)

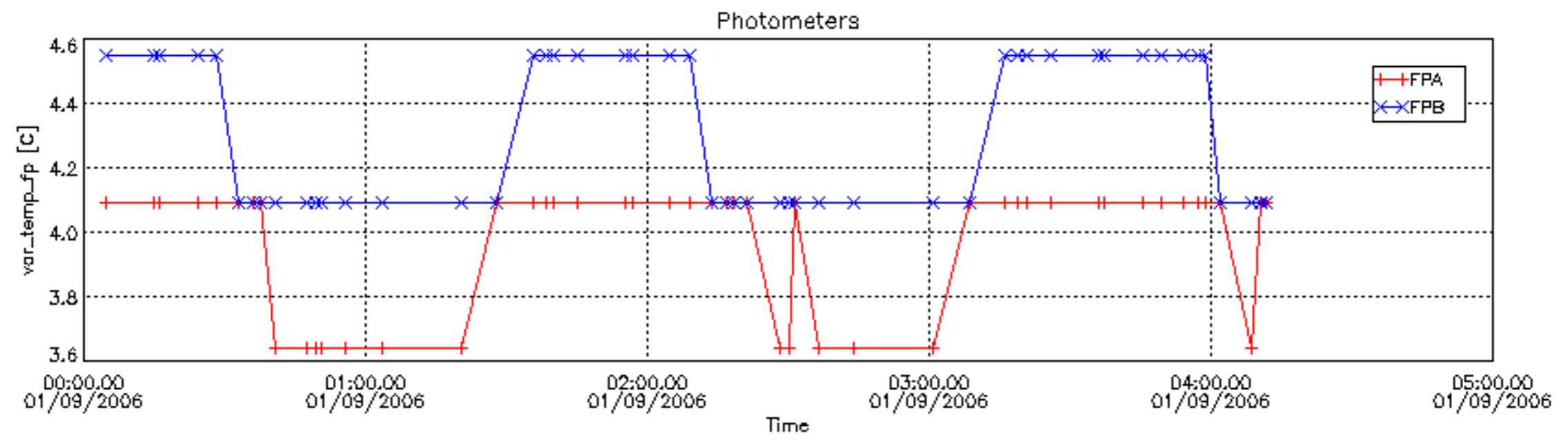
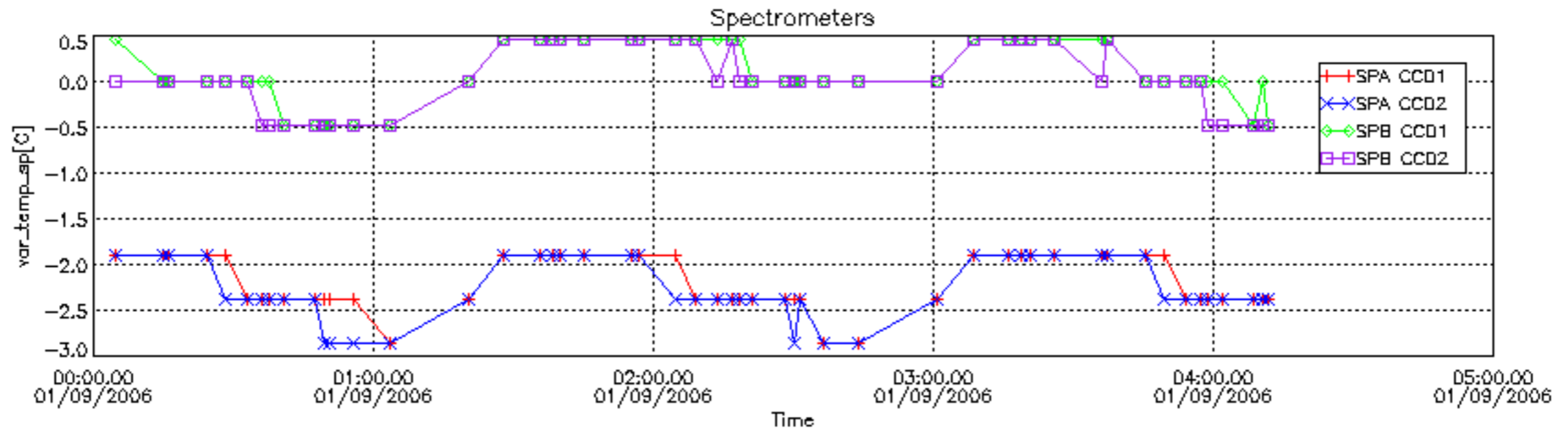
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

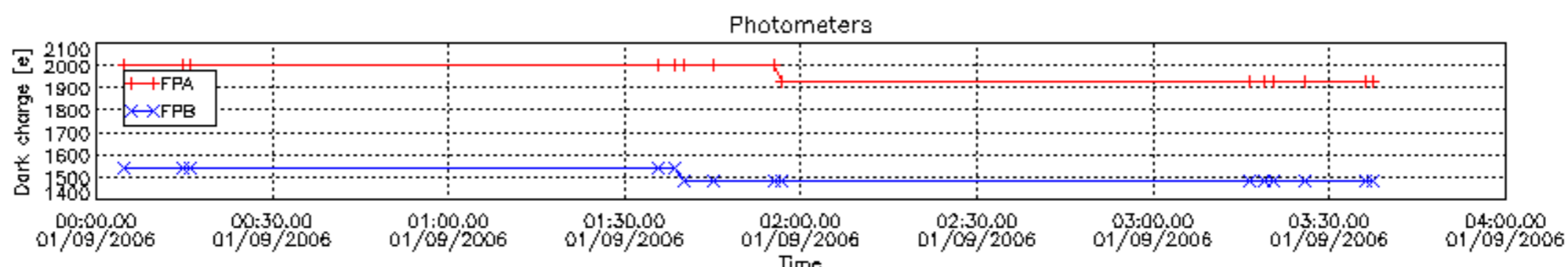
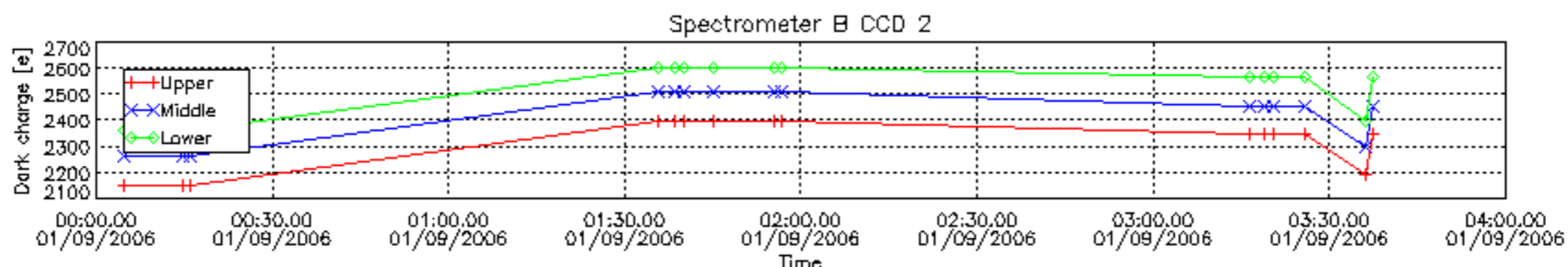
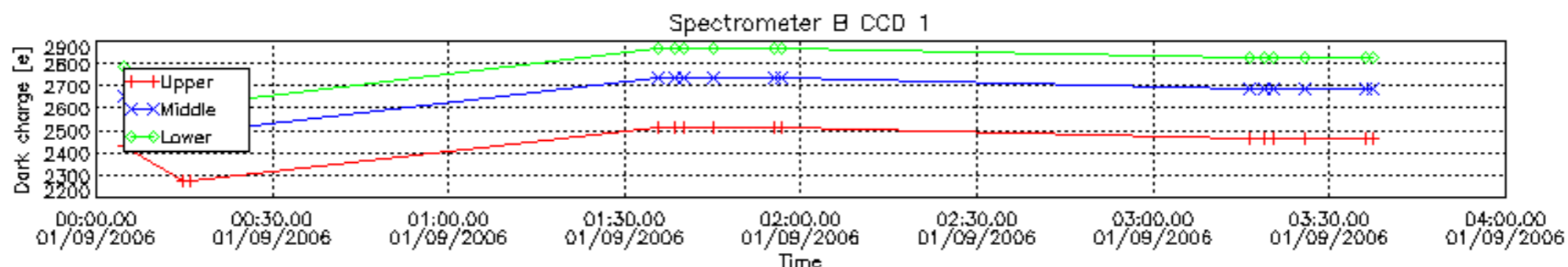
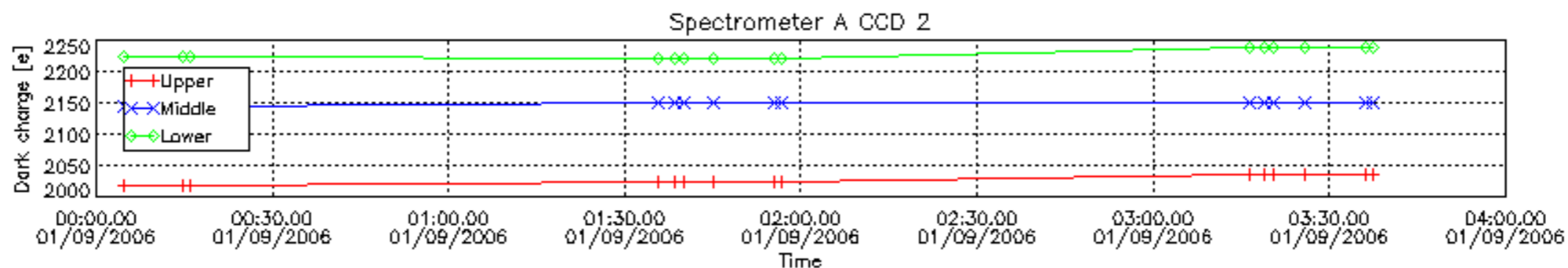
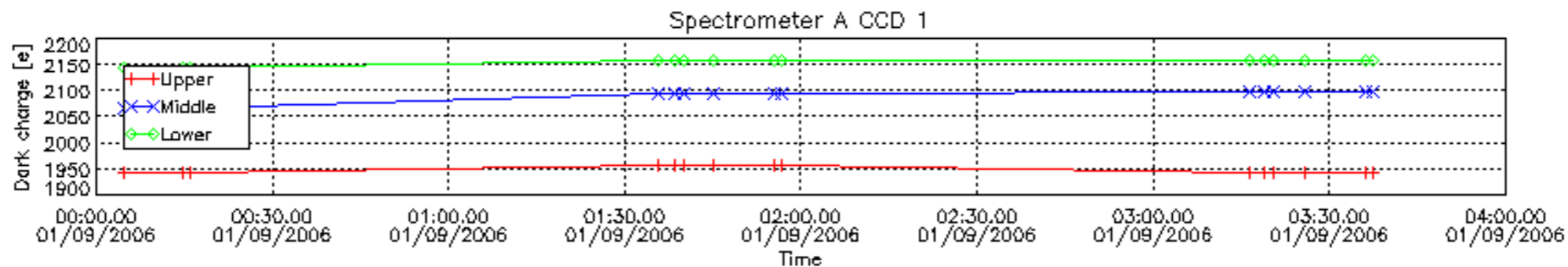


8. Auxiliary Data Files used for the production reported in section 2.2

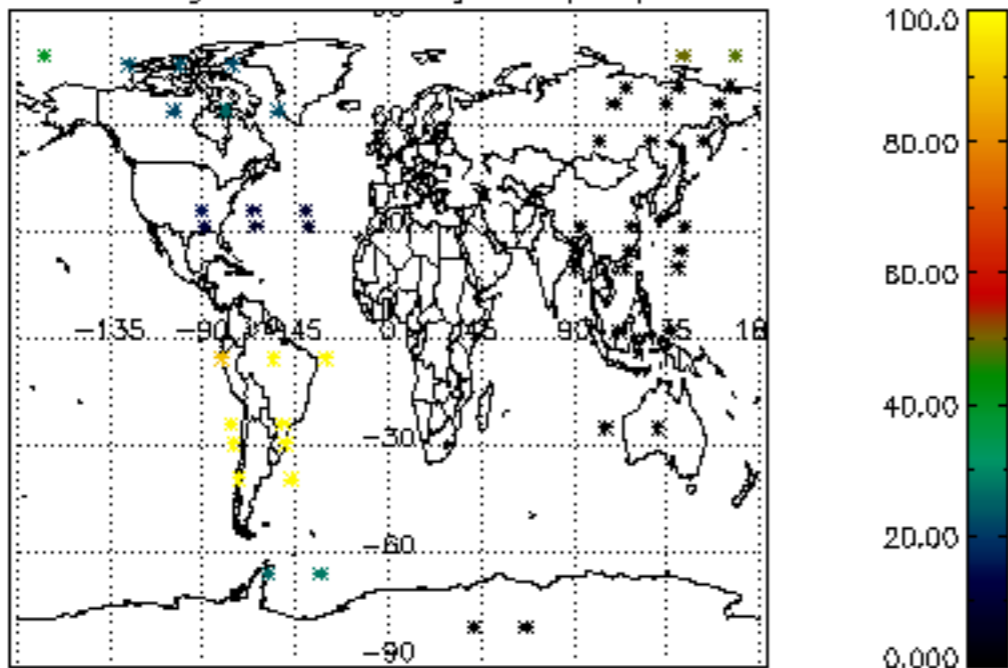
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	01-SEP-2006 00:04:32
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060825_091604_20060823_000000_20100101_000000	1	01-SEP-2006 00:04:32
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	01-SEP-2006 00:04:32
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	01-SEP-2006 00:04:32
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	01-SEP-2006 00:04:32
ECMWF_FILE	AUX_ECF_AXNECM20060831_062840_20060831_210000_20060901_090000	1	01-SEP-2006 00:04:32
OPTIONAL_ECMWF_FILE	MISSING	1	01-SEP-2006 00:04:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060831_220822_000057382050_00444_23544_0465.N1	1	01-SEP-2006 00:04:32
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20060831_235843_20060831_190418_20060910_203029	17	01-SEP-2006 01:35:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060901_024439_000057382050_00447_23547_0468.N1	34	01-SEP-2006 03:00:53

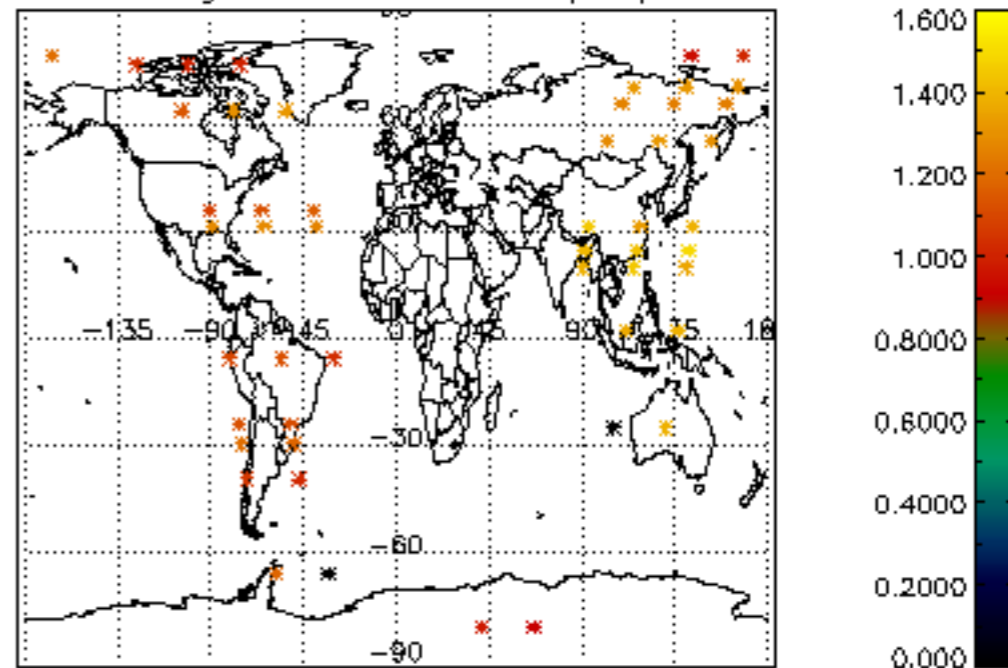




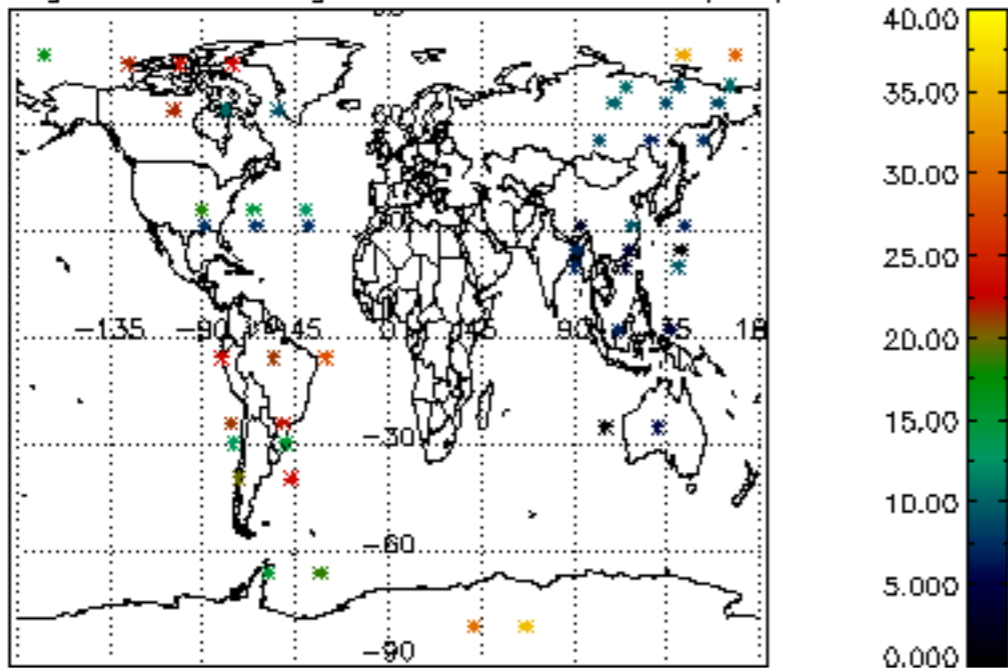
Percentage of cosmic ray hits per profile



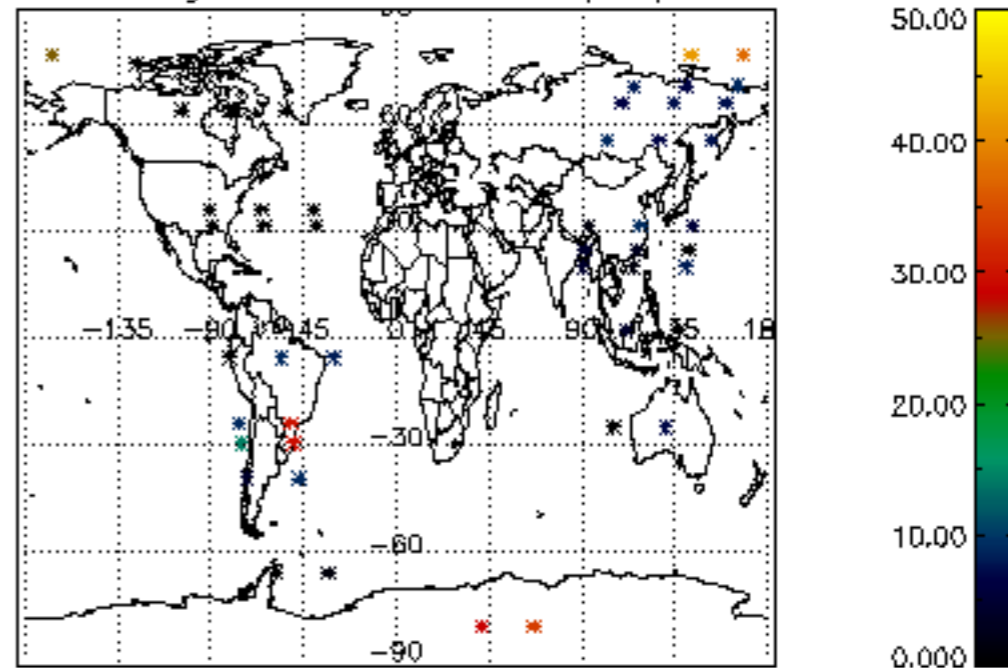
Percentage of datation errors per profile



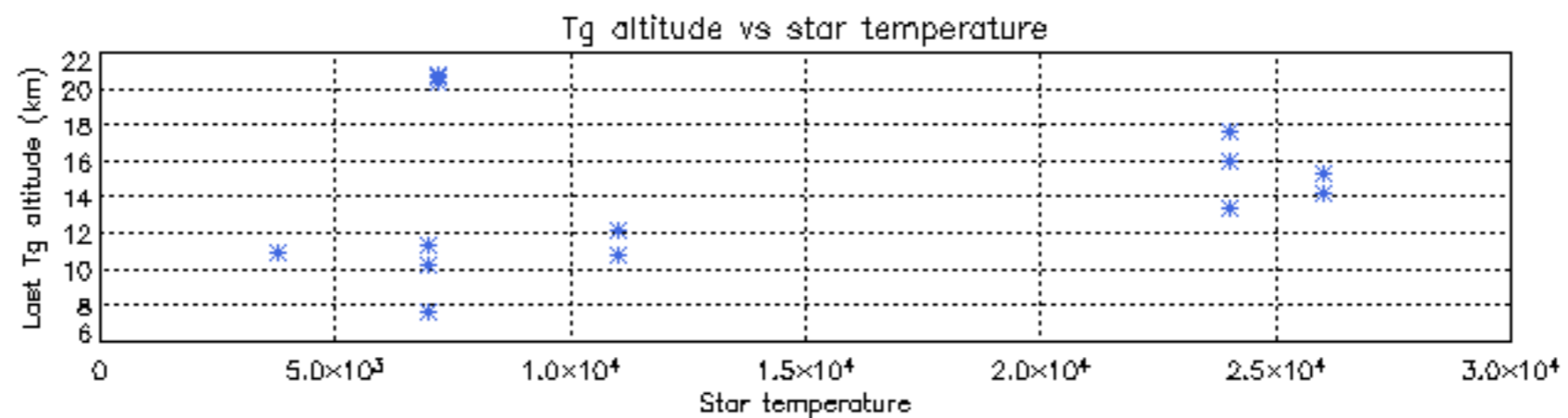
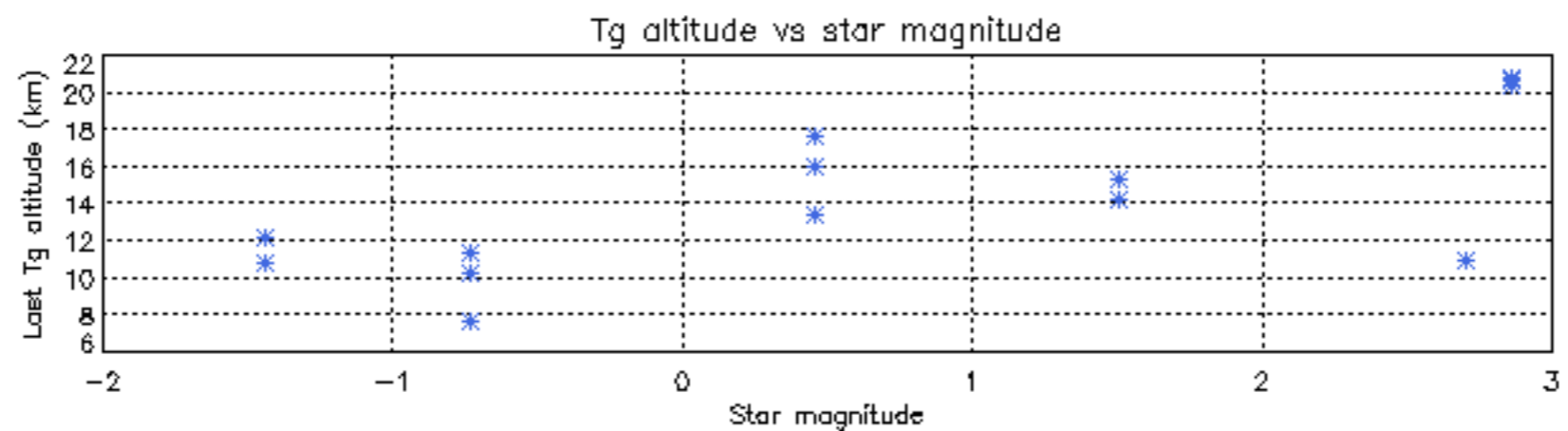
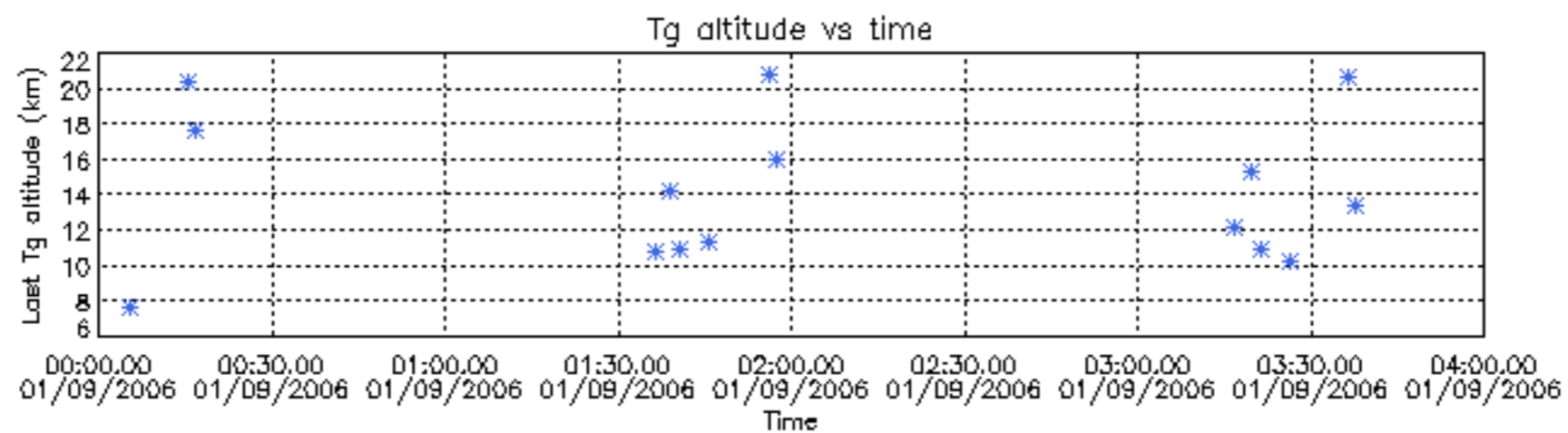
Percentage of star falling outside central band per profile



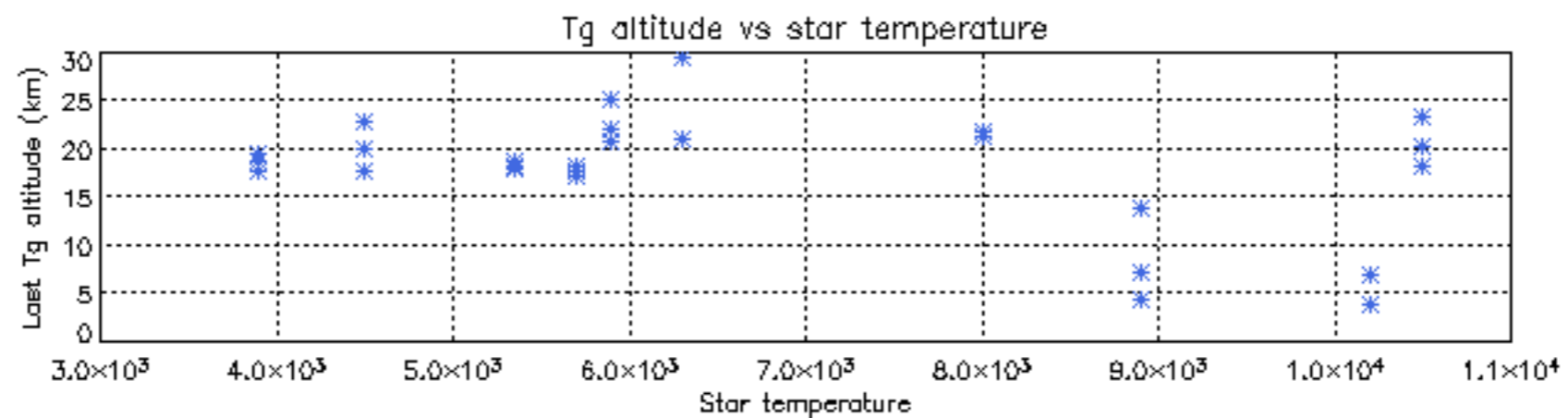
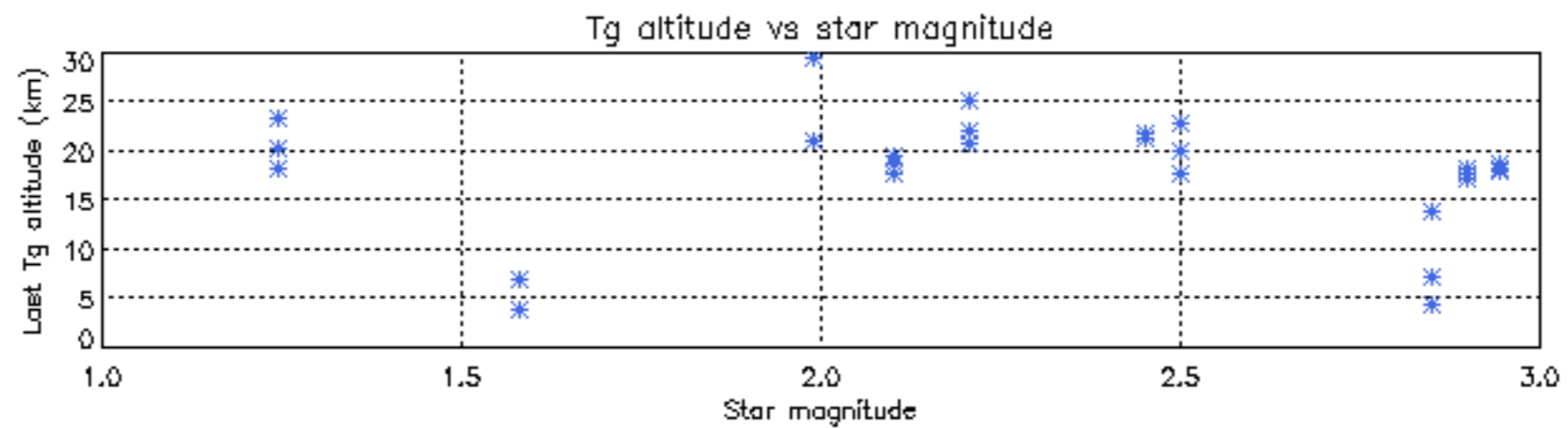
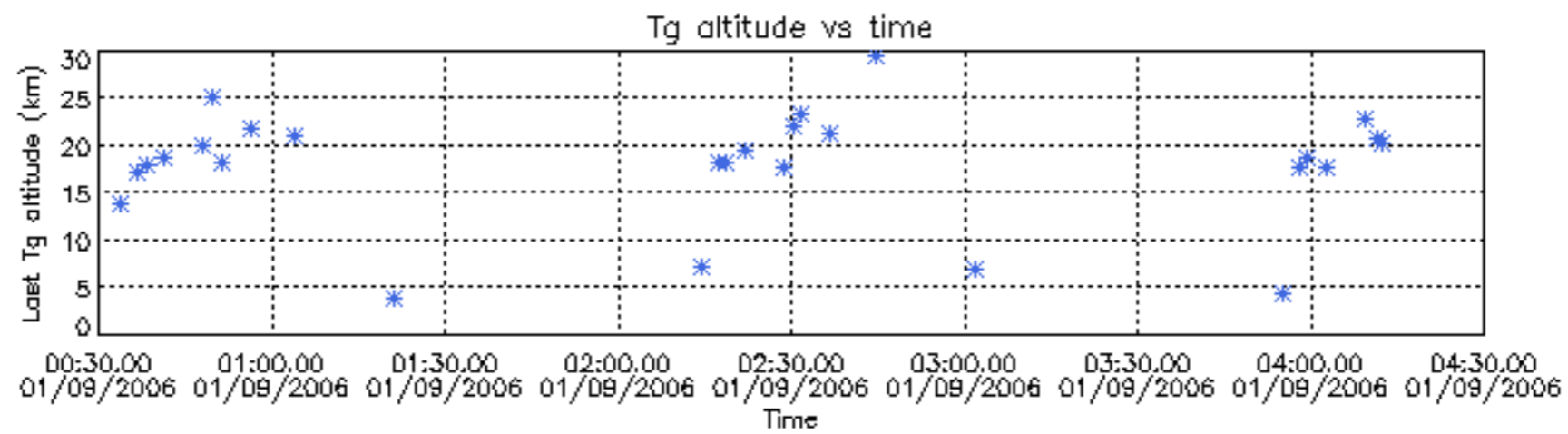
Percentage of saturation errors per profile



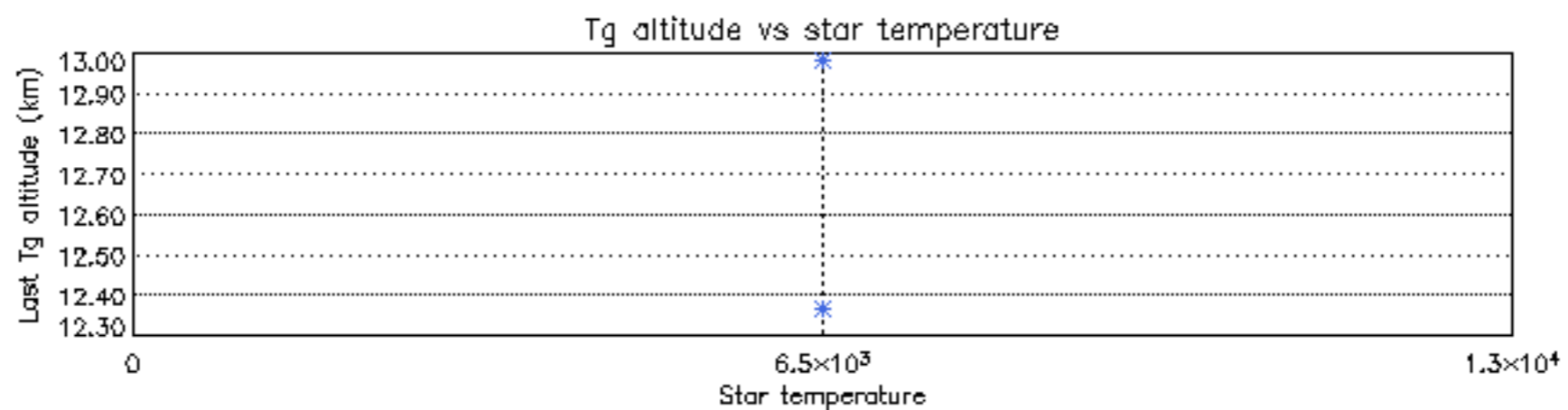
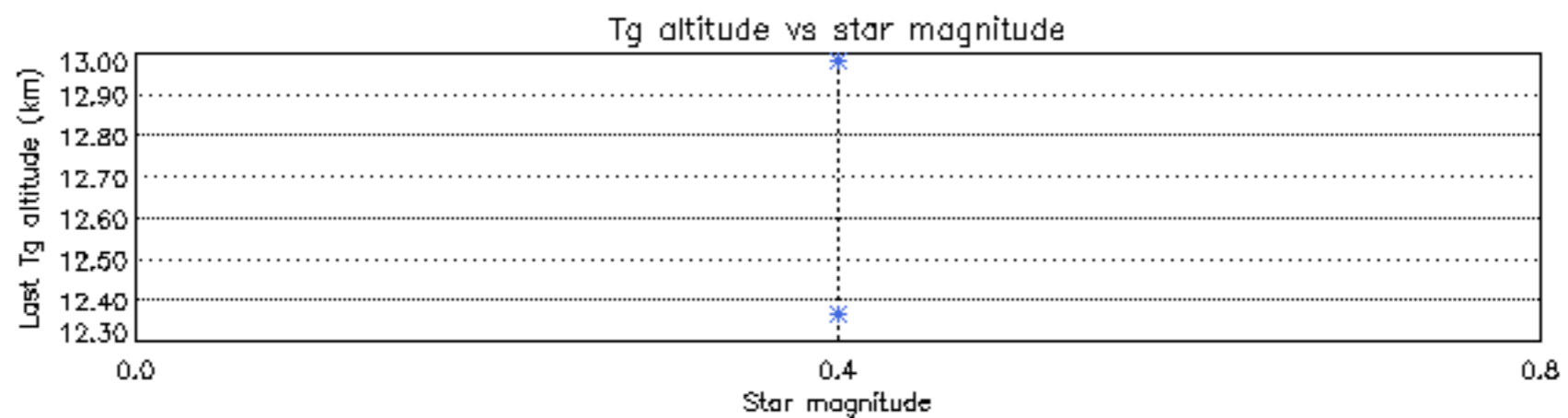
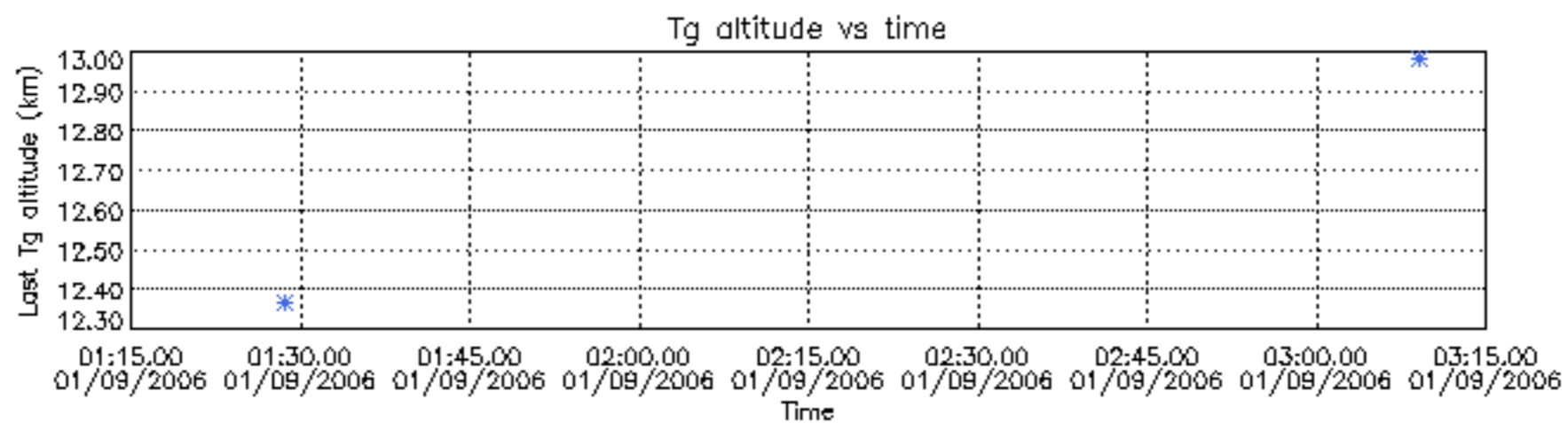
Tangent altitude at which the star is lost

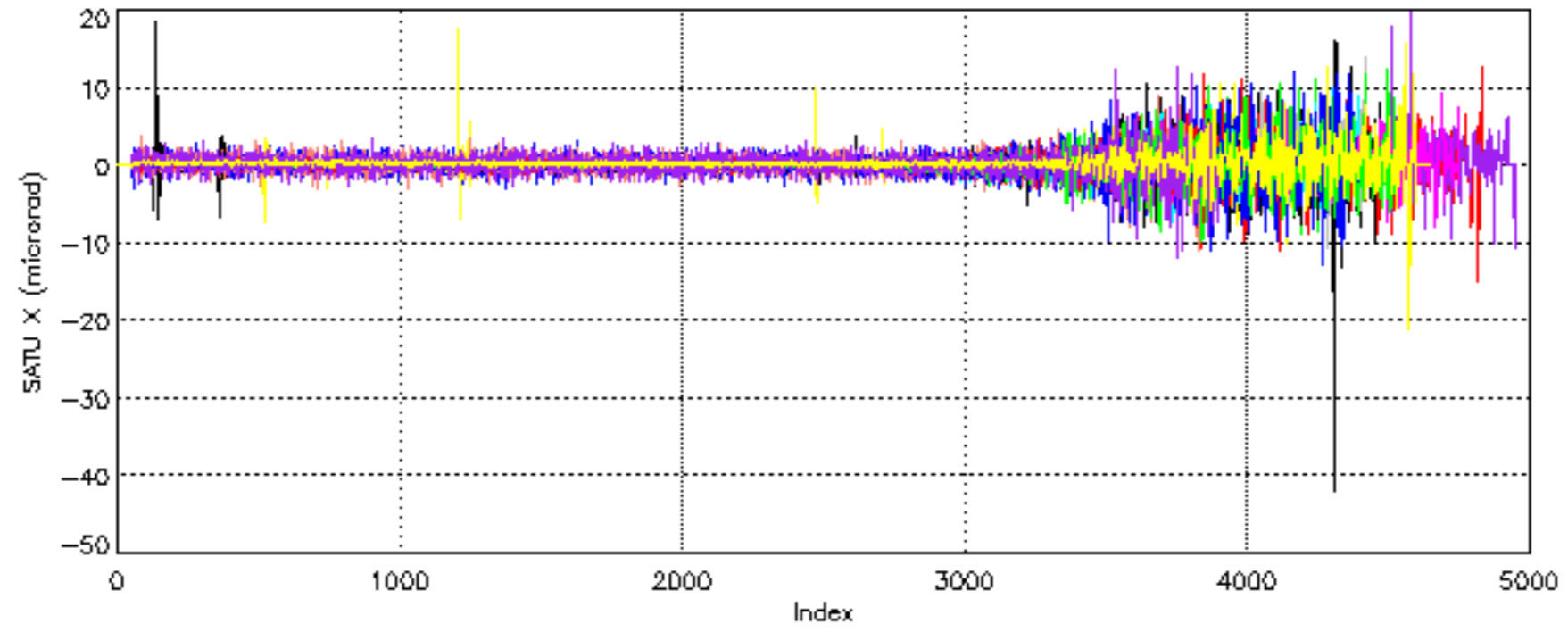


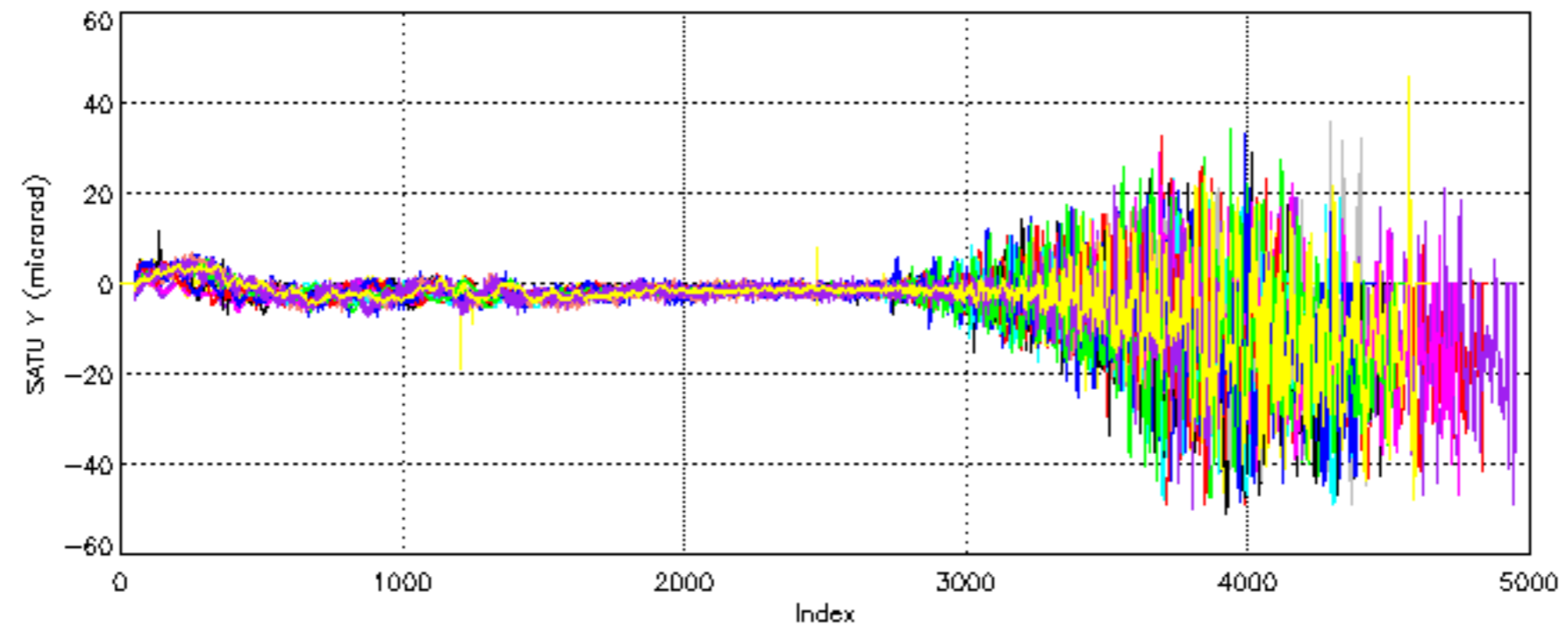
Tangent altitude at which the star is lost

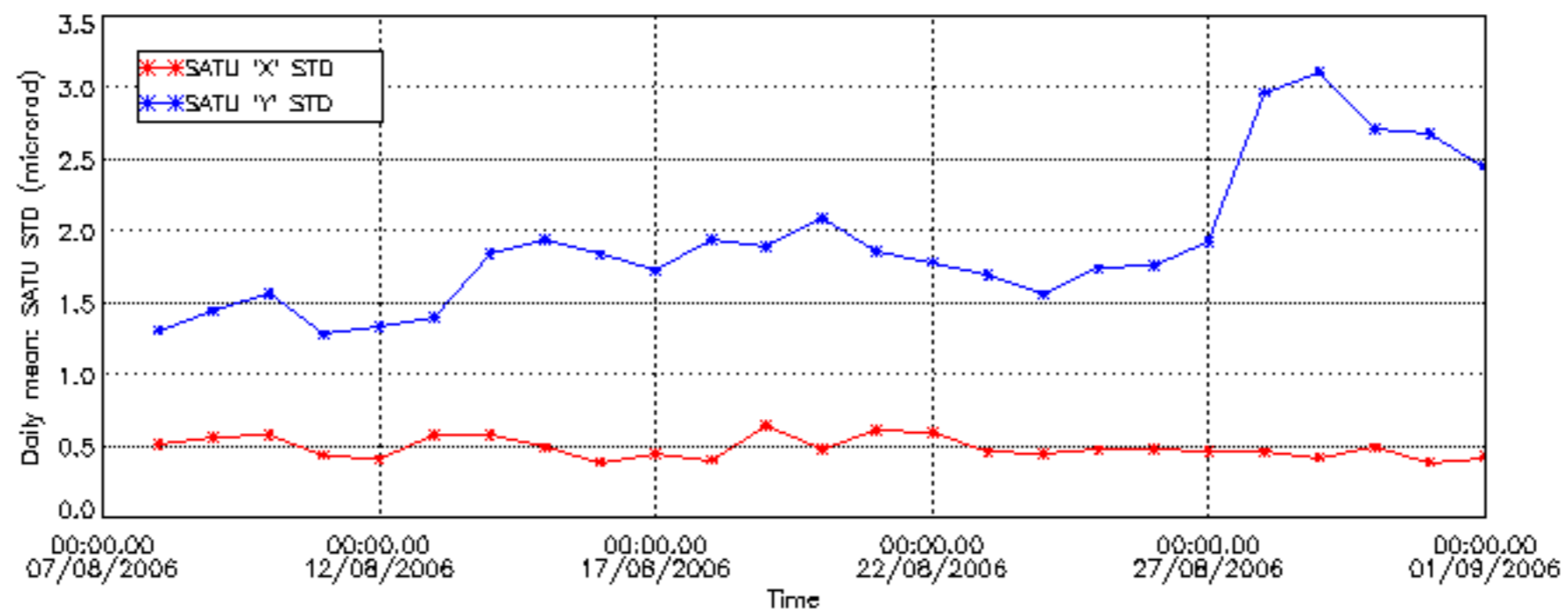


Tangent altitude at which the star is lost









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 3; -402.4; 01-SEP-2006 01:39:59; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;23546
 4; -278.6; 01-SEP-2006 01:42:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23546
 5; -92.4; 01-SEP-2006 01:45:09; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;23546
 6; 526.4; 01-SEP-2006 01:55:28; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;23547
 7; 603.1; 01-SEP-2006 01:56:44; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;23547
 8; 1084.0; 01-SEP-2006 02:04:45; Dark ; 38.5; 31; Alp Gru ; 1.73; 15200;occ; 77; 0;23547
 9; 1328.9; 01-SEP-2006 02:08:50; Dark ; 50.5; 18; 24Alp PsA ; 1.17; 9700;occ; 101; 0;23547
 10; 1619.0; 01-SEP-2006 02:13:40; Dark ; 49.5; 142; 49Del Cap ; 2.85; 8900;occ; 99; 0;23547
 11; 1807.1; 01-SEP-2006 02:16:48; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;23547
 12; 1895.4; 01-SEP-2006 02:18:17; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;23547
 13; 2075.6; 01-SEP-2006 02:21:17; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;23547
 14; 2487.4; 01-SEP-2006 02:28:09; Bright; 37.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 75; 0;23547
 15; 2600.2; 01-SEP-2006 02:30:01; Bright; 35.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 70; 0;23547
 16; 2678.1; 01-SEP-2006 02:31:19; Bright; 34.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 69; 0;23547
 17; 2975.7; 01-SEP-2006 02:36:17; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;23547
 18; 3434.5; 01-SEP-2006 02:43:56; Bright; 32.5; 49; 1Alp UMi ; 1.99; 6300;occ; 65; 0;23547

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 2; -1121.0; 01-SEP-2006 03:08:36; Dark ; 42.5; 8; 10Alp CMi ; 0.40; 6500;occ; 85; 0;23547
 3; -662.3; 01-SEP-2006 03:16:14; Dark ; 47.5; 1; 9Alp CMA ; -1.44; 11000;occ; 95; 0;23547
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 6; -277.9; 01-SEP-2006 03:22:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23547
 7; -91.4; 01-SEP-2006 03:25:45; Dark ; 45.5; 2; Alp Car ; -0.74; 7000;occ; 91; 0;23547
 8; 527.5; 01-SEP-2006 03:36:04; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;23548
 9; 604.2; 01-SEP-2006 03:37:21; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;23548
 10; 1084.9; 01-SEP-2006 03:45:22; Dark ; 44.0; 31; Alp Gru ; 1.73; 15200;occ; 88; 0;23548
 11; 1329.7; 01-SEP-2006 03:49:26; Dark ; 48.5; 18; 24Alp PsA ; 1.17; 9700;occ; 97; 0;23548
 12; 1619.6; 01-SEP-2006 03:54:16; Dark ; 53.0; 142; 49Del Cap ; 2.85; 8900;occ; 106; 0;23548
 13; 1807.8; 01-SEP-2006 03:57:24; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;23548
 14; 1896.0; 01-SEP-2006 03:58:53; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;23548
 15; 2075.9; 01-SEP-2006 04:01:53; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;23548
 16; 2488.1; 01-SEP-2006 04:08:45; Bright; 34.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 69; 0;23548
 17; 2600.9; 01-SEP-2006 04:10:38; Bright; 35.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 71; 0;23548
 18; 2678.7; 01-SEP-2006 04:11:55; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;23548
 19; 2976.1; 01-SEP-2006 04:16:53; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;23548
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 7; -91.0; 01-SEP-2006 05:06:22; Dark ; 54.0; 2; Alp Car ; -0.74; 7000;occ; 108; 0;23548
 8; 527.8; 01-SEP-2006 05:16:40; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;23549
 9; 604.8; 01-SEP-2006 05:17:57; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;23549
 10; 1085.1; 01-SEP-2006 05:25:58; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;23549
 11; 1329.9; 01-SEP-2006 05:30:03; Dark ; 49.0; 18; 24Alp PsA ; 1.17; 9700;occ; 98; 0;23549
 12; 1619.7; 01-SEP-2006 05:34:52; Dark ; 53.0; 142; 49Del Cap ; 2.85; 8900;occ; 106; 0;23549
 13; 1807.9; 01-SEP-2006 05:38:01; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;23549
 14; 1896.0; 01-SEP-2006 05:39:29; Bright; 39.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 79; 0;23549
 15; 2075.9; 01-SEP-2006 05:42:29; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;23549
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 18; 2678.7; 01-SEP-2006 05:52:31; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;23549
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 5; -4140.1; 01-SEP-2006 20:44:52; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;23558
 6; -3960.3; 01-SEP-2006 20:47:52; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;23558

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9;-3060.6; 01-SEP-2006 21:02:51; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;23558
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11;-1581.5; 01-SEP-2006 21:27:30; Bright; 55.0; 24; 66Alp Gem ; 1.58; 10200;occ; 110; 0;23558
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5; -86.5; 01-SEP-2006 21:52:25; Dark ; 50.0; 2; Alp Car ; -0.74; 7000;occ; 100; 0;23558
6; 533.4; 01-SEP-2006 22:02:45; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;23559
7; 610.8; 01-SEP-2006 22:04:03; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;23559
8; 1087.5; 01-SEP-2006 22:11:59; Dark ; 41.0; 31; Alp Gru ; 1.73; 15200;occ; 82; 0;23559
9; 1332.6; 01-SEP-2006 22:16:04; Dark ; 51.5; 18; 24Alp PsA ; 1.17; 9700;occ; 103; 0;23559
10; 1621.1; 01-SEP-2006 22:20:53; Dark ; 51.5; 142; 49Del Cap ; 2.85; 8900;occ; 103; 0;23559
11; 1808.8; 01-SEP-2006 22:24:01; Bright; 37.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 74; 0;23559
12; 1895.7; 01-SEP-2006 22:25:28; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;23559
13; 2075.5; 01-SEP-2006 22:28:27; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;23559
14; 2488.8; 01-SEP-2006 22:35:21; Bright; 34.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 68; 0;23559
15; 2679.1; 01-SEP-2006 22:38:31; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;23559
16; 2975.1; 01-SEP-2006 22:43:27; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0;23559
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6; 533.8; 01-SEP-2006 23:43:22; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;23560
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12; 1895.7; 02-SEP-2006 00:06:03; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;23560
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14; 2488.8; 02-SEP-2006 00:15:57; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;23560
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16; 2975.0; 02-SEP-2006 00:24:03; Bright; 34.0; 89; 5Alp Cep ; 2.45; 8000;occ; 68; 0;23560
17; 3434.8; 02-SEP-2006 00:31:43; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;23560
18; 4454.6; 02-SEP-2006 00:48:42; Bright; 55.0; 24; 66Alp Gem ; 1.58; 10200;occ; 110; 0;23560
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14; 2974.1; 17-SEP-2006 22:40:31; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0;23788
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11;	-348.2;	17-SEP-2006	16:43:21;	Dark	;	41.5;	65;	Lam Vel	;	2.20;	4400;occ;	83;	0;	23784
12;	-168.6;	17-SEP-2006	16:46:21;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	23784
13;	-58.3;	17-SEP-2006	16:48:11;	Dark	;	43.5;	41;	Eps Car	;	1.86;	4100;occ;	87;	0;	23784
14;	37.1;	17-SEP-2006	16:49:47;	Dark	;	56.0;	2;	Alp Car	;	-0.74;	7000;occ;	112;	0;	23785
15;	576.1;	17-SEP-2006	16:58:46;	Dark	;	37.5;	135;	Bet Hyi	;	2.82;	5800;occ;	75;	0;	23785
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2;	-347.2;	18-SEP-2006	01:06:22;	Dark	;	42.5;	65;	Lam Vel	;	2.20;	4400;occ;	85;	0;	23789
3;	-165.7;	18-SEP-2006	01:09:23;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	23789
4;	-57.1;	18-SEP-2006	01:11:12;	Dark	;	49.0;	41;	Eps Car	;	1.86;	4100;occ;	98;	0;	23789
5;	40.2;	18-SEP-2006	01:12:49;	Dark	;	51.0;	2;	Alp Car	;	-0.74;	7000;occ;	102;	0;	23790
6;	576.9;	18-SEP-2006	01:21:46;	Dark	;	36.5;	135;	Bet Hyi	;	2.82;	5800;occ;	73;	0;	23790
7;	737.8;	18-SEP-2006	01:24:27;	Dark	;	43.0;	9;	Alp Eri	;	0.45;	24000;occ;	86;	0;	23790
8;	1132.9;	18-SEP-2006	01:31:02;	Dark	;	37.5;	31;	Alp Gru	;	1.73;	15200;occ;	75;	0;	23790
9;	1386.7;	18-SEP-2006	01:35:16;	Dark	;	44.5;	18;	24Alp PsA	;	1.17;	9700;occ;	89;	0;	23790
10;	1657.2;	18-SEP-2006	01:39:46;	Dark	;	38.5;	142;	49Del Cap	;	2.85;	8900;occ;	77;	0;	23790
11;	1909.5;	18-SEP-2006	01:43:59;	Bright;	;	36.5;	162;	34Alp Aqr	;	2.94;	5350;occ;	73;	0;	23790
12;	2090.3;	18-SEP-2006	01:46:59;	Bright;	;	37.5;	61;	8Eps Peg	;	2.10;	3900;occ;	75;	0;	23790
13;	2717.3;	18-SEP-2006	01:57:26;	Bright;	;	33.5;	19;	50Alp Cyg	;	1.25;	10500;occ;	67;	0;	23790
14;	2974.3;	18-SEP-2006	02:01:43;	Bright;	;	35.5;	89;	5Alp Cep	;	2.45;	8000;occ;	71;	0;	23790
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2;	-2071.6;	18-SEP-2006	02:18:13;	Bright;	;	50.0;	82;	48Bet UMA	;	2.37;	10600;occ;	100;	0;	23790
3;	-572.6;	18-SEP-2006	02:43:12;	Dark	;	41.5;	132;	15Rho Pup	;	2.80;	6900;occ;	83;	0;	23790
4;	-347.1;	18-SEP-2006	02:46:58;	Dark	;	41.5;	65;	Lam Vel	;	2.20;	4400;occ;	83;	0;	23790
5;	-165.1;	18-SEP-2006	02:50:00;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	23790
6;	-56.8;	18-SEP-2006	02:51:48;	Dark	;	43.5;	41;	Eps Car	;	1.86;	4100;occ;	87;	0;	23790
7;	40.9;	18-SEP-2006	02:53:26;	Dark	;	47.5;	2;	Alp Car	;	-0.74;	7000;occ;	95;	0;	23791
8;	577.1;	18-SEP-2006	03:02:22;	Dark	;	37.0;	135;	Bet Hyi	;	2.82;	5800;occ;	74;	0;	23791
9;	738.2;	18-SEP-2006	03:05:03;	Dark	;	52.0;	9;	Alp Eri	;	0.45;	24000;occ;	104;	0;	23791
10;	1133.1;	18-SEP-2006	03:11:38;	Dark	;	37.5;	31;	Alp Gru	;	1.73;	15200;occ;	75;	0;	23791
11;	1387.0;	18-SEP-2006	03:15:52;	Dark	;	44.0;	18;	24Alp PsA	;	1.17;	9700;occ;	88;	0;	23791
12;	1657.4;	18-SEP-2006	03:20:22;	Dark	;	38.0;	142;	49Del Cap	;	2.85;	8900;occ;	76;	0;	23791
13;	1909.7;	18-SEP-2006	03:24:35;	Bright;	;	35.5;	162;	34Alp Aqr	;	2.94;	5350;occ;	71;	0;	23791
14;	2090.5;	18-SEP-2006	03:27:36;	Bright;	;	38.5;	61;	8Eps Peg	;	2.10;	3900;occ;	77;	0;	23791
15;	2717.7;	18-SEP-2006	03:38:03;	Bright;	;	37.0;	19;	50Alp Cyg	;	1.25;	10500;occ;	74;	0;	23791
16;	2974.5;	18-SEP-2006	03:42:20;	Bright;	;	35.0;	89;	5Alp Cep	;	2.45;	8000;occ;	70;	0;	23791
17;	3431.8;	18-SEP-2006	03:49:57;	Bright;	;	33.5;	49;	1Alp UMi	;	1.99;	6300;occ;	67;	0;	23791
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2;	-2071.3;	18-SEP-2006	03:58:50;	Bright;	;	35.0;	82;	48Bet UMA	;	2.37;	10600;occ;	70;	0;	23791
3;	-572.2;	18-SEP-2006	04:23:49;	Dark	;	42.5;	132;	15Rho Pup	;	2.80;	6900;occ;	85;	0;	23791
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7;	41.5;	18-SEP-2006	04:34:03;	Dark	;	57.0;	2;	Alp Car	;	-0.74;	7000;occ;	114;	0;	23792
8;	577.3;	18-SEP-2006	04:42:58;	Dark	;	39.0;	135;	Bet Hyi	;	2.82;	5800;occ;	78;	0;	23792
9;	738.7;	18-SEP-2006	04:45:40;	Dark	;	48.5;	9;	Alp Eri	;	0.45;	24000;occ;	97;	0;	23792
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11;	1387.3;	18-SEP-2006	04:56:28;	Dark	;	40.0;	18;	24Alp PsA	;	1.17;	9700;occ;	80;	0;	23792
12;	1657.8;	18-SEP-2006	05:00:59;	Dark	;	39.0;	142;	49Del Cap	;	2.85;	8900;occ;	78;	0;	23792
13;	1909.8;	18-SEP-2006	05:05:11;	Bright;	;	37.0;	162;	34Alp Aqr	;	2.94;	5350;occ;	74;	0;	23792
14;	2090.7;	18-SEP-2006	05:08:12;	Bright;	;	37.5;	61;	8Eps Peg	;	2.10;	3900;occ;	75;	0;	23792
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16;	2974.5;	18-SEP-2006	05:22:56;	Bright;	;	35.0;	89;	5Alp Cep	;	2.45;	8000;occ;	70;	0;	23792
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2;	-2071.4;	18-SEP-2006	05:39:26;	Bright;	;	36.0;	82;	48Bet UMA	;	2.37;	10600;occ;	72;	0;	23792
3;	-571.8;	18-SEP-2006	06:04:25;	Dark	;	43.5;	132;	15Rho Pup	;	2.80;	6900;occ;	87;	0;	23792
4;	-346.7;	18-SEP-2006	06:08:10;	Dark	;	44.0;	65;	Lam Vel	;	2.20;	4400;occ;	88;	0;	23792
5;	-164.0;	18-SEP-2006	06:11:13;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	23792
6;	-56.4;	18-SEP-2006	06:13:01;	Dark	;	42.0;	41;	Eps Car	;	1.86;	4100;occ;	84;	0;	23792
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 8; -2522.8; 21-SEP-2006 19:02:27; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;23843
 9; -2149.0; 21-SEP-2006 19:08:41; Bright; 34.0; 36; 50Alp UMA ; 1.80; 6300;occ; 68; 0;23843
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 12; -204.3; 21-SEP-2006 19:41:06; Dark ; 41.5; 34; Gam2Vel ; 1.79; 23000;occ; 83; 0;23843
 13; -133.3; 21-SEP-2006 19:42:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23843
 14; -43.4; 21-SEP-2006 19:43:47; Dark ; 47.5; 41; Eps Car ; 1.86; 4100;occ; 95; 0;23843
 15; 585.5; 21-SEP-2006 19:54:16; Dark ; 35.0; 135; Bet Hyi ; 2.82; 5800;occ; 70; 0;23844
 16; 676.5; 21-SEP-2006 19:55:47; Dark ; 38.0; 143; Alp Hyi ; 2.86; 7200;occ; 76; 0;23844
 17; 763.4; 21-SEP-2006 19:57:14; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;23844

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 4; -42.7; 22-SEP-2006 00:45:35; Dark ; 42.0; 41; Eps Car ; 1.86; 4100;occ; 84; 0;23846
 5; 585.9; 22-SEP-2006 00:56:04; Dark ; 36.5; 135; Bet Hyi ; 2.82; 5800;occ; 73; 0;23847
 6; 677.7; 22-SEP-2006 00:57:36; Dark ; 38.5; 143; Alp Hyi ; 2.86; 7200;occ; 77; 0;23847
 7; 764.7; 22-SEP-2006 00:59:03; Dark ; 48.0; 9; Alp Eri ; 0.45; 24000;occ; 96; 0;23847
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 9; 1397.8; 22-SEP-2006 01:09:36; Dark ; 43.5; 18; 24Alp PsA ; 1.17; 9700;occ; 87; 0;23847
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 12; 2424.8; 22-SEP-2006 01:26:43; Bright; 36.5; 164; 44Eta Peg ; 2.95; 5400;occ; 73; 0;23847
 13; 2979.6; 22-SEP-2006 01:35:58; Bright; 35.5; 89; 5Alp Cep ; 2.45; 8000;occ; 71; 0;23847
 14; 3430.8; 22-SEP-2006 01:43:29; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;23847
 15; 3514.3; 22-SEP-2006 01:44:52; Bright; 51.5; 60; 7Bet UMi ; 2.08; 3950;occ; 103; 0;23847
 16; 3887.5; 22-SEP-2006 01:51:05; Bright; 36.0; 36; 50Alp UMA ; 1.80; 6300;occ; 72; 0;23847
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5;	586.1;	22-SEP-2006	02:36:40;	Dark	;	37.5;	135;	Bet Hyi	;	2.82;	5800;occ;	75;	0;	23848
6;	678.1;	22-SEP-2006	02:38:12;	Dark	;	39.5;	143;	Alp Hyi	;	2.86;	7200;occ;	79;	0;	23848
7;	765.2;	22-SEP-2006	02:39:39;	Dark	;	46.5;	9;	Alp Eri	;	0.45;	24000;occ;	93;	0;	23848
8;	1123.1;	22-SEP-2006	02:45:37;	Dark	;	44.5;	63;	Bet Gru	;	2.15;	2800;occ;	81;	0;	23848
9;	1398.0;	22-SEP-2006	02:50:12;	Dark	;	44.5;	18;	24Alp PsA	;	1.17;	9700;occ;	89;	0;	23848
10;	1917.9;	22-SEP-2006	02:58:52;	Bright;	;	36.5;	162;	34Alp Aqr	;	2.94;	5350;occ;	73;	0;	23848
11;	2100.9;	22-SEP-2006	03:01:55;	Bright;	;	37.5;	61;	8Eps Peg	;	2.10;	3900;occ;	75;	0;	23848
12;	2424.8;	22-SEP-2006	03:07:19;	Bright;	;	37.5;	164;	44Eta Peg	;	2.95;	5400;occ;	75;	0;	23848
13;	2979.7;	22-SEP-2006	03:16:34;	Bright;	;	35.0;	89;	5Alp Cep	;	2.45;	8000;occ;	70;	0;	23848
14;	3430.8;	22-SEP-2006	03:24:05;	Bright;	;	34.0;	49;	1Alp UMi	;	1.99;	6300;occ;	68;	0;	23848
15;	3514.6;	22-SEP-2006	03:25:28;	Bright;	;	24.0;	60;	7Bet UMi	;	2.08;	3950;occ;	48;	0;	23848
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2;	-2148.3;	22-SEP-2006	03:31:41;	Bright;	;	35.5;	36;	50Alp UMa	;	1.80;	6300;occ;	71;	0;	23848
3;	-2060.3;	22-SEP-2006	03:33:09;	Bright;	;	35.5;	82;	48Bet UMa	;	2.37;	10600;occ;	71;	0;	23848
4;	-334.2;	22-SEP-2006	04:01:56;	Dark	;	43.0;	65;	Lam Vel	;	2.20;	4400;occ;	86;	0;	23848
5;	-202.0;	22-SEP-2006	04:04:08;	Dark	;	41.5;	34;	Gam2Vel	;	1.79;	23000;occ;	83;	0;	23848
6;	-130.2;	22-SEP-2006	04:05:20;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	23848
7;	-42.0;	22-SEP-2006	04:06:48;	Dark	;	41.5;	41;	Eps Car	;	1.86;	4100;occ;	83;	0;	23848
8;	586.4;	22-SEP-2006	04:17:16;	Dark	;	36.5;	135;	Bet Hyi	;	2.82;	5800;occ;	73;	0;	23849
9;	678.9;	22-SEP-2006	04:18:49;	Dark	;	38.5;	143;	Alp Hyi	;	2.86;	7200;occ;	77;	0;	23849
10;	765.7;	22-SEP-2006	04:20:16;	Dark	;	42.0;	9;	Alp Eri	;	0.45;	24000;occ;	84;	0;	23849
11;	1123.5;	22-SEP-2006	04:26:13;	Dark	;	44.5;	63;	Bet Gru	;	2.15;	2800;occ;	89;	0;	23849
12;	1398.4;	22-SEP-2006	04:30:48;	Dark	;	41.0;	18;	24Alp PsA	;	1.17;	9700;occ;	82;	0;	23849
13;	1918.3;	22-SEP-2006	04:39:28;	Bright;	;	36.0;	162;	34Alp Aqr	;	2.94;	5350;occ;	72;	0;	23849
14;	2101.2;	22-SEP-2006	04:42:31;	Bright;	;	37.5;	61;	8Eps Peg	;	2.10;	3900;occ;	75;	0;	23849
15;	2425.0;	22-SEP-2006	04:47:55;	Bright;	;	37.0;	164;	44Eta Peg	;	2.95;	5400;occ;	74;	0;	23849
16;	2980.0;	22-SEP-2006	04:57:10;	Bright;	;	35.0;	89;	5Alp Cep	;	2.45;	8000;occ;	70;	0;	23849
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2;	-2060.0;	22-SEP-2006	05:13:46;	Bright;	;	35.5;	82;	48Bet UMa	;	2.37;	10600;occ;	71;	0;	23849
3;	-334.0;	22-SEP-2006	05:42:32;	Dark	;	47.0;	65;	Lam Vel	;	2.20;	4400;occ;	94;	0;	23849
4;	-201.6;	22-SEP-2006	05:44:44;	Dark	;	39.5;	34;	Gam2Vel	;	1.79;	23000;occ;	79;	0;	23849
5;	-129.6;	22-SEP-2006	05:45:56;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	23849
6;	-41.8;	22-SEP-2006	05:47:24;	Dark	;	41.5;	41;	Eps Car	;	1.86;	4100;occ;	83;	0;	23849
7;	586.5;	22-SEP-2006	05:57:52;	Dark	;	36.0;	135;	Bet Hyi	;	2.82;	5800;occ;	72;	0;	23850
8;	679.3;	22-SEP-2006	05:59:25;	Dark	;	38.0;	143;	Alp Hyi	;	2.86;	7200;occ;	76;	0;	23850
9;	766.2;	22-SEP-2006	06:00:52;	Dark	;	42.0;	9;	Alp Eri	;	0.45;	24000;occ;	84;	0;	23850
10;	1123.7;	22-SEP-2006	06:06:50;	Dark	;	40.0;	63;	Bet Gru	;	2.15;	2800;occ;	80;	0;	23850
11;	1398.6;	22-SEP-2006	06:11:24;	Dark	;	41.0;	18;	24Alp PsA	;	1.17;	9700;occ;	82;	0;	23850
12;	1918.4;	22-SEP-2006	06:20:04;	Bright;	;	36.5;	162;	34Alp Aqr	;	2.94;	5350;occ;	73;	0;	23850
13;	2101.5;	22-SEP-2006	06:23:07;	Bright;	;	37.0;	61;	8Eps Peg	;	2.10;	3900;occ;	74;	0;	23850
14;	2424.9;	22-SEP-2006	06:28:31;	Bright;	;	36.0;	164;	44Eta Peg	;	2.95;	5400;occ;	72;	0;	23850
15;	2980.1;	22-SEP-2006	06:37:46;	Bright;	;	35.0;	89;	5Alp Cep	;	2.45;	8000;occ;	70;	0;	23850
16;	3430.9;	22-SEP-2006	06:45:17;	Bright;	;	35.5;	49;	1Alp UMi	;	1.99;	6300;occ;	71;	0;	23850
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5;	-3611.5;	22-SEP-2006	21:33:54;	Bright;	;	37.0;	164;	44Eta Peg	;	2.95;	5400;occ;	74;	0;	23859
6;	-3054.8;	22-SEP-2006	21:43:10;	Bright;	;	36.0;	89;	5Alp Cep	;	2.45;	8000;occ;	72;	0;	23859
7;	-2605.2;	22-SEP-2006	21:50:40;	Bright;	;	35.5;	49;	1Alp UMi	;	1.99;	6300;occ;	71;	0;	23859
8;	-2517.9;	22-SEP-2006	21:52:07;	Bright;	;	32.5;	60;	7Bet UMi	;	2.08;	3950;occ;	65;	0;	23859
9;	-2146.5;	22-SEP-2006	21:58:19;	Bright;	;	37.0;	36;	50Alp UMa	;	1.80;	6300;occ;	74;	0;	23859
10;	-2058.4;	22-SEP-2006	21:59:47;	Bright;	;	35.5;	82;	48Bet UMa	;	2.37;	10600;occ;	71;	0;	23859
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2;	-197.3;	22-SEP-2006	22:30:48;	Dark	;	41.5;	34;	Gam2Vel	;	1.79;	23000;occ;	83;	0;	23859
3;	-123.2;	22-SEP-2006	22:32:02;	Dark	;	59.0;	0;		;	0.00;	0;occ;	118;	0;	23859
4;	587.9;	22-SEP-2006	22:43:53;	Dark	;	37.5;	135;	Bet Hyi	;	2.82;	5800;occ;	75;	0;	23860
5;	683.5;	22-SEP-2006	22:45:29;	Dark	;	38.5;	143;	Alp Hyi	;	2.86;	7200;occ;	77;	0;	23860
6;	770.7;	22-SEP-2006	22:46:56;	Dark	;	51.0;	9;	Alp Eri	;	0.45;	24000;occ;	102;	0;	23860

7; 1125.3; 22-SEP-2006 22:52:51; Dark ; 51.0; 63; Bet Gru ; 2.15; 2800;occ; 102; 0;23860
 8; 1400.4; 22-SEP-2006 22:57:26; Dark ; 42.5; 18; 24Alp PsA ; 1.17; 9700;occ; 85; 0;23860
 9; 1919.8; 22-SEP-2006 23:06:05; Bright; 35.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 71; 0;23860
 10; 2103.3; 22-SEP-2006 23:09:09; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;23860
 11; 2424.3; 22-SEP-2006 23:14:30; Bright; 36.0; 164; 44Eta Peg ; 2.95; 5400;occ; 72; 0;23860
 12; 2981.1; 22-SEP-2006 23:23:46; Bright; 52.0; 89; 5Alp Cep ; 2.45; 8000;occ; 104; 0;23860
 13; 3430.6; 22-SEP-2006 23:31:16; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;23860
 14; 3518.3; 22-SEP-2006 23:32:44; Bright; 33.5; 60; 7Bet UMi ; 2.08; 3950;occ; 67; 0;23860
 15; 3889.5; 22-SEP-2006 23:38:55; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;23860
 16; 3977.7; 22-SEP-2006 23:40:23; Bright; 34.5; 82; 48Bet UMa ; 2.37; 10600;occ; 69; 0;23860
 17; 4166.3; 22-SEP-2006 23:43:32; Bright; 34.5; 174; 52Psi UMa ; 3.00; 4400;occ; 69; 0;23860

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 7;-2147.7; 22-SEP-2006 08:33:30; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;23851
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 11;-128.3; 22-SEP-2006 09:07:09; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;23851
 12; 586.9; 22-SEP-2006 09:19:05; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;23852
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6;	-195.9;	23-SEP-2006	03:32:37;	Dark	;	42.5;	34;	Gam2	Vel	;	1.79;	23000;occ;	85;	0;	23862
7;	-121.3;	23-SEP-2006	03:33:52;	Dark	;	59.5;	0;			;	0.00;	0;occ;	119;	0;	23862
8;	588.6;	23-SEP-2006	03:45:42;	Dark	;	36.5;	135;	Bet	Hyi	;	2.82;	5800;occ;	73;	0;	23863
9;	685.0;	23-SEP-2006	03:47:18;	Dark	;	38.0;	143;	Alp	Hyi	;	2.86;	7200;occ;	76;	0;	23863
10;	772.0;	23-SEP-2006	03:48:45;	Dark	;	41.0;	9;	Alp	Eri	;	0.45;	24000;occ;	82;	0;	23863
11;	1125.9;	23-SEP-2006	03:54:39;	Dark	;	46.0;	63;	Bet	Gru	;	2.15;	2800;occ;	92;	0;	23863
12;	1401.1;	23-SEP-2006	03:59:14;	Dark	;	44.5;	18;	24Alp	PsA	;	1.17;	9700;occ;	89;	0;	23863
13;	1920.5;	23-SEP-2006	04:07:54;	Bright;	37.0;	162;	34Alp	Aqr	;	2.94;	5350;occ;	74;	0;	23863	
14;	2104.1;	23-SEP-2006	04:10:57;	Bright;	37.5;	61;	8Eps	Peg	;	2.10;	3900;occ;	75;	0;	23863	
15;	2424.2;	23-SEP-2006	04:16:17;	Bright;	37.0;	164;	44Eta	Peg	;	2.95;	5400;occ;	74;	0;	23863	
16;	2981.8;	23-SEP-2006	04:25:35;	Bright;	32.0;	89;	5Alp	Cep	;	2.45;	8000;occ;	64;	0;	23863	
17;	3430.7;	23-SEP-2006	04:33:04;	Bright;	37.0;	49;	1Alp	UMi	;	1.99;	6300;occ;	74;	0;	23863	
18;	3519.3;	23-SEP-2006	04:34:32;	Bright;	39.0;	60;	7Bet	UMi	;	2.08;	3950;occ;	78;	0;	23863	
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2;	-2057.5;	23-SEP-2006	04:42:12;	Bright;	34.5;	82;	48Bet	UMA	;	2.37;	10600;occ;	69;	0;	23863	
3;	-1868.8;	23-SEP-2006	04:45:20;	Bright;	34.5;	174;	52Psi	UMA	;	3.00;	4400;occ;	69;	0;	23863	
4;	-330.4;	23-SEP-2006	05:10:59;	Dark	;	45.5;	65;	Lam	Vel	;	2.20;	4400;occ;	91;	0;	23863
5;	-195.5;	23-SEP-2006	05:13:14;	Dark	;	38.5;	34;	Gam2	Vel	;	1.79;	23000;occ;	77;	0;	23863
6;	-120.7;	23-SEP-2006	05:14:28;	Dark	;	59.0;	0;			;	0.00;	0;occ;	118;	0;	23863
7;	588.7;	23-SEP-2006	05:26:18;	Dark	;	35.5;	135;	Bet	Hyi	;	2.82;	5800;occ;	71;	0;	23864
8;	685.5;	23-SEP-2006	05:27:55;	Dark	;	38.5;	143;	Alp	Hyi	;	2.86;	7200;occ;	77;	0;	23864
9;	772.5;	23-SEP-2006	05:29:22;	Dark	;	43.5;	9;	Alp	Eri	;	0.45;	24000;occ;	87;	0;	23864
10;	1126.1;	23-SEP-2006	05:35:15;	Dark	;	48.5;	63;	Bet	Gru	;	2.15;	2800;occ;	97;	0;	23864
11;	1401.3;	23-SEP-2006	05:39:50;	Dark	;	42.0;	18;	24Alp	PsA	;	1.17;	9700;occ;	84;	0;	23864
12;	1920.7;	23-SEP-2006	05:48:30;	Bright;	37.5;	162;	34Alp	Aqr	;	2.94;	5350;occ;	75;	0;	23864	
13;	2104.4;	23-SEP-2006	05:51:33;	Bright;	37.5;	61;	8Eps	Peg	;	2.10;	3900;occ;	75;	0;	23864	
14;	2424.2;	23-SEP-2006	05:56:53;	Bright;	35.0;	164;	44Eta	Peg	;	2.95;	5400;occ;	70;	0;	23864	
15;	2981.9;	23-SEP-2006	06:06:11;	Bright;	35.5;	89;	5Alp	Cep	;	2.45;	8000;occ;	71;	0;	23864	
16;	3430.7;	23-SEP-2006	06:13:40;	Bright;	34.0;	49;	1Alp	UMi	;	1.99;	6300;occ;	68;	0;	23864	
17;	3519.6;	23-SEP-2006	06:15:09;	Bright;	32.5;	60;	7Bet	UMi	;	2.08;	3950;occ;	65;	0;	23864	
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1;	1127.5;	23-SEP-2006	20:40:40;	Dark	;	44.0;	63;	Bet	Gru	;	2.15;	2800;occ;	88;	0;	23873
2;	1402.8;	23-SEP-2006	20:45:15;	Dark	;	39.5;	18;	24Alp	PsA	;	1.17;	9700;occ;	79;	0;	23873
3;	1922.3;	23-SEP-2006	20:53:55;	Bright;	34.5;	162;	34Alp	Aqr	;	2.94;	5350;occ;	69;	0;	23873	
4;	2106.4;	23-SEP-2006	20:56:59;	Bright;	38.0;	61;	8Eps	Peg	;	2.10;	3900;occ;	76;	0;	23873	
5;	2423.8;	23-SEP-2006	21:02:16;	Bright;	37.0;	164;	44Eta	Peg	;	2.95;	5400;occ;	74;	0;	23873	
6;	2982.9;	23-SEP-2006	21:11:36;	Bright;	35.0;	89;	5Alp	Cep	;	2.45;	8000;occ;	70;	0;	23873	
7;	3430.4;	23-SEP-2006	21:19:03;	Bright;	35.5;	49;	1Alp	UMi	;	1.99;	6300;occ;	71;	0;	23873	
8;	3522.2;	23-SEP-2006	21:20:35;	Bright;	36.0;	60;	7Bet	UMi	;	2.08;	3950;occ;	72;	0;	23873	
9;	3891.5;	23-SEP-2006	21:26:44;	Bright;	37.5;	36;	50Alp	UMA	;	1.80;	6300;occ;	75;	0;	23873	
10;	3980.1;	23-SEP-2006	21:28:13;	Bright;	34.5;	82;	48Bet	UMA	;	2.37;	10600;occ;	69;	0;	23873	
11;	4168.8;	23-SEP-2006	21:31:21;	Bright;	33.5;	174;	52Psi	UMA	;	3.00;	4400;occ;	67;	0;	23873	
12;	4568.7;	23-SEP-2006	21:38:01;	Bright;	33.0;	166;	17Eps	Leo	;	2.98;	6000;occ;	66;	0;	23873	
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1;	-327.1;	23-SEP-2006	21:57:01;	Dark	;	44.0;	65;	Lam	Vel	;	2.20;	4400;occ;	88;	1;	23873
2;	-240.5;	23-SEP-2006	21:58:28;	Dark	;	59.5;	0;			;	0.00;	0;occ;	119;	0;	23873
3;	-129.2;	23-SEP-2006	22:00:19;	Dark	;	37.5;	46;	Del	Vel	;	1.95;	10600;occ;	75;	0;	23873
4;	-34.9;	23-SEP-2006	22:01:54;	Dark	;	38.0;	41;	Eps	Car	;	1.86;	4100;occ;	76;	0;	23873
5;	590.1;	23-SEP-2006	22:12:19;	Dark	;	36.0;	135;	Bet	Hyi	;	2.82;	5800;occ;	72;	0;	23874
6;	689.7;	23-SEP-2006	22:13:58;	Dark	;	38.5;	143;	Alp	Hyi	;	2.86;	7200;occ;	77;	0;	23874
7;	777.0;	23-SEP-2006	22:15:25;	Dark	;	49.0;	9;	Alp	Eri	;	0.45;	24000;occ;	98;	0;	23874
8;	1127.7;	23-SEP-2006	22:21:16;	Dark	;	49.5;	63;	Bet	Gru	;	2.15;	2800;occ;	99;	0;	23874
9;	1402.9;	23-SEP-2006	22:25:51;	Dark	;	44.0;	18;	24Alp	PsA	;	1.17;	9700;occ;	88;	0;	23874
10;	1922.4;	23-SEP-2006	22:34:31;	Bright;	37.0;	162;	34Alp	Aqr	;	2.94;	5350;occ;	74;	0;	23874	
11;	2106.7;	23-SEP-2006	22:37:35;	Bright;	38.0;	61;	8Eps	Peg	;	2.10;	3900;occ;	76;	0;	23874	
12;	2423.7;	23-SEP-2006	22:42:52;	Bright;	37.5;	164;	44Eta	Peg	;	2.95;	5400;occ;	75;	0;	23874	
13;	2983.1;	23-SEP-2006	22:52:12;	Bright;	35.5;	89;	5Alp	Cep	;	2.45;	8000;occ;	71;	0;	23874	
14;	3430.5;	23-SEP-2006	22:59:39;	Bright;	35.5;	49;	1Alp	UMi	;	1.99;	6300;occ;	71;	0;	23874	
15;	3522.5;	23-SEP-2006	23:01:11;	Bright;	32.0;	60;	7Bet	UMi	;	2.08;	3950;occ;	64;	0;	23874	
16;	3891.7;	23-SEP-2006	23:07:20;	Bright;	37.0;	36;	50Alp	UMA	;	1.80;	6300;occ;	74;	0;	23874	
17;	3980.2;	23-SEP-2006	23:08:49;	Bright;	35.5;	82;	48Bet	UMA	;	2.37;	10600;occ;	71;	0;	23874	
18;	4168.9;	23-SEP-2006	23:11:57;	Bright;	34.5;	174;	52Psi	UMA	;	3.00;	4400;occ;	69;	0;	23874	
19;	4568.6;	23-SEP-2006	23:18:37;	Bright;	33.5;	166;	17Eps	Leo	;	2.98;	6000;occ;	67;	0;	23874	
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1;	-326.9;	23-SEP-2006	23:37:38;	Dark	;	43.0;	65;	Lam Vel	;	2.20;	4400;occ;	86;	1;	23874
2;	-240.2;	23-SEP-2006	23:39:04;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	23874
3;	-128.9;	23-SEP-2006	23:40:55;	Dark	;	37.5;	46;	Del Vel	;	1.95;	10600;occ;	75;	0;	23874
4;	-34.6;	23-SEP-2006	23:42:30;	Dark	;	46.5;	41;	Eps Car	;	1.86;	4100;occ;	93;	0;	23874
5;	590.2;	23-SEP-2006	23:52:55;	Dark	;	39.5;	135;	Bet Hyi	;	2.82;	5800;occ;	73;	0;	23875
6;	690.2;	23-SEP-2006	23:54:35;	Dark	;	39.5;	143;	Alp Hyi	;	2.86;	7200;occ;	79;	0;	23875
7;	777.4;	23-SEP-2006	23:56:02;	Dark	;	46.0;	9;	Alp Eri	;	0.45;	24000;occ;	92;	0;	23875
8;	1127.8;	24-SEP-2006	00:01:52;	Dark	;	41.5;	63;	Bet Gru	;	2.15;	2800;occ;	83;	0;	23875
9;	1403.1;	24-SEP-2006	00:06:28;	Dark	;	43.0;	18;	24Alp PsA	;	1.17;	9700;occ;	86;	0;	23875
10;	1922.4;	24-SEP-2006	00:15:07;	Bright;	;	36.5;	162;	34Alp Aqr	;	2.94;	5350;occ;	73;	0;	23875
11;	2106.8;	24-SEP-2006	00:18:11;	Bright;	;	39.0;	61;	8Eps Peg	;	2.10;	3900;occ;	78;	0;	23875
12;	2423.7;	24-SEP-2006	00:23:28;	Bright;	;	36.5;	164;	44Eta Peg	;	2.95;	5400;occ;	73;	0;	23875
13;	2983.1;	24-SEP-2006	00:32:48;	Bright;	;	52.0;	89;	5Alp Cep	;	2.45;	8000;occ;	104;	0;	23875
14;	3430.5;	24-SEP-2006	00:40:15;	Bright;	;	32.0;	49;	1Alp UMi	;	1.99;	6300;occ;	64;	0;	23875
15;	3522.7;	24-SEP-2006	00:41:47;	Bright;	;	34.0;	60;	7Bet UMi	;	2.08;	3950;occ;	68;	0;	23875
16;	3892.0;	24-SEP-2006	00:47:56;	Bright;	;	37.0;	36;	50Alp UMa	;	1.80;	6300;occ;	74;	0;	23875
17;	3980.4;	24-SEP-2006	00:49:25;	Bright;	;	34.5;	82;	48Bet UMa	;	2.37;	10600;occ;	69;	0;	23875
18;	4169.2;	24-SEP-2006	00:52:34;	Bright;	;	35.0;	174;	52Psi UMa	;	3.00;	4400;occ;	70;	0;	23875
19;	4569.0;	24-SEP-2006	00:59:13;	Bright;	;	33.5;	166;	17Eps Leo	;	2.98;	6000;occ;	67;	0;	23875
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1;	-2145.9;	23-SEP-2006	06:21:19;	Bright;	;	37.5;	36;	50Alp UMa	;	1.80;	6300;occ;	75;	0;	23864
2;	-2057.4;	23-SEP-2006	06:22:48;	Bright;	;	35.5;	82;	48Bet UMa	;	2.37;	10600;occ;	71;	0;	23864
3;	-1869.0;	23-SEP-2006	06:25:56;	Bright;	;	34.5;	174;	52Psi UMa	;	3.00;	4400;occ;	69;	0;	23864
4;	-330.1;	23-SEP-2006	06:51:35;	Dark	;	43.0;	65;	Lam Vel	;	2.20;	4400;occ;	86;	0;	23864
5;	-195.0;	23-SEP-2006	06:53:50;	Dark	;	39.5;	34;	Gam2Vel	;	1.79;	23000;occ;	79;	0;	23864
6;	-120.0;	23-SEP-2006	06:55:05;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	23864
7;	588.8;	23-SEP-2006	07:06:54;	Dark	;	35.5;	135;	Bet Hyi	;	2.82;	5800;occ;	71;	0;	23865
8;	685.9;	23-SEP-2006	07:08:31;	Dark	;	37.5;	143;	Alp Hyi	;	2.86;	7200;occ;	75;	0;	23865
9;	772.9;	23-SEP-2006	07:09:58;	Dark	;	52.0;	9;	Alp Eri	;	0.45;	24000;occ;	104;	0;	23865
10;	1126.3;	23-SEP-2006	07:15:51;	Dark	;	52.0;	63;	Bet Gru	;	2.15;	2800;occ;	104;	0;	23865
11;	1401.5;	23-SEP-2006	07:20:27;	Dark	;	40.5;	18;	24Alp PsA	;	1.17;	9700;occ;	81;	0;	23865
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1;	-4115.0;	23-SEP-2006	07:29:06;	Bright;	;	36.5;	162;	34Alp Aqr	;	2.94;	5350;occ;	73;	0;	23865
2;	-3931.3;	23-SEP-2006	07:32:10;	Bright;	;	38.5;	61;	8Eps Peg	;	2.10;	3900;occ;	77;	0;	23865
3;	-3611.8;	23-SEP-2006	07:37:29;	Bright;	;	35.5;	164;	44Eta Peg	;	2.95;	5400;occ;	71;	0;	23865
4;	-3054.0;	23-SEP-2006	07:46:47;	Bright;	;	35.0;	89;	5Alp Cep	;	2.45;	8000;occ;	70;	0;	23865
5;	-2605.2;	23-SEP-2006	07:54:16;	Bright;	;	34.5;	49;	1Alp UMi	;	1.99;	6300;occ;	69;	0;	23865
6;	-2516.0;	23-SEP-2006	07:55:45;	Bright;	;	36.5;	60;	7Bet UMi	;	2.08;	3950;occ;	73;	0;	23865
7;	-2145.5;	23-SEP-2006	08:01:55;	Bright;	;	37.5;	36;	50Alp UMa	;	1.80;	6300;occ;	75;	0;	23865
8;	-2057.2;	23-SEP-2006	08:03:24;	Bright;	;	35.0;	82;	48Bet UMa	;	2.37;	10600;occ;	70;	0;	23865
9;	-1868.6;	23-SEP-2006	08:06:32;	Bright;	;	35.0;	174;	52Psi UMa	;	3.00;	4400;occ;	70;	0;	23865
10;	-329.8;	23-SEP-2006	08:32:11;	Dark	;	39.0;	65;	Lam Vel	;	2.20;	4400;occ;	78;	0;	23865
11;	-194.6;	23-SEP-2006	08:34:26;	Dark	;	39.0;	34;	Gam2Vel	;	1.79;	23000;occ;	78;	0;	23865
12;	-119.4;	23-SEP-2006	08:35:42;	Dark	;	59.0;	0;		;	0.00;	0;occ;	118;	0;	23865
13;	589.0;	23-SEP-2006	08:47:30;	Dark	;	36.0;	135;	Bet Hyi	;	2.82;	5800;occ;	72;	0;	23866
14;	686.3;	23-SEP-2006	08:49:07;	Dark	;	39.0;	143;	Alp Hyi	;	2.86;	7200;occ;	78;	0;	23866
15;	773.4;	23-SEP-2006	08:50:34;	Dark	;	39.5;	9;	Alp Eri	;	0.45;	24000;occ;	79;	0;	23866
16;	1126.5;	23-SEP-2006	08:56:27;	Dark	;	42.0;	63;	Bet Gru	;	2.15;	2800;occ;	84;	0;	23866
17;	1401.6;	23-SEP-2006	09:01:03;	Dark	;	46.5;	18;	24Alp PsA	;	1.17;	9700;occ;	93;	0;	23866
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1;	-4115.3;	23-SEP-2006	09:09:42;	Bright;	;	36.5;	162;	34Alp Aqr	;	2.94;	5350;occ;	73;	0;	23866
2;	-3931.6;	23-SEP-2006	09:12:46;	Bright;	;	38.0;	61;	8Eps Peg	;	2.10;	3900;occ;	76;	0;	23866
3;	-3612.4;	23-SEP-2006	09:18:05;	Bright;	;	37.0;	164;	44Eta Peg	;	2.95;	5400;occ;	74;	0;	23866
4;	-3054.3;	23-SEP-2006	09:27:23;	Bright;	;	35.0;	89;	5Alp Cep	;	2.45;	8000;occ;	70;	0;	23866
5;	-2605.8;	23-SEP-2006	09:34:52;	Bright;	;	36.5;	49;	1Alp UMi	;	1.99;	6300;occ;	73;	0;	23866
6;	-2516.3;	23-SEP-2006	09:36:21;	Bright;	;	53.0;	60;	7Bet UMi	;	2.08;	3950;occ;	106;	0;	23866
7;	-2146.0;	23-SEP-2006	09:42:31;	Bright;	;	39.0;	36;	50Alp UMa	;	1.80;	6300;occ;	78;	0;	23866
8;	-2057.5;	23-SEP-2006	09:44:00;	Bright;	;	33.0;	82;	48Bet UMa	;	2.37;	10600;occ;	66;	0;	23866
9;	-1868.9;	23-SEP-2006	09:47:09;	Bright;	;	33.5;	174;	52Psi UMa	;	3.00;	4400;occ;	67;	0;	23866
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