

GOMOS Daily Report 15-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	17SEP2006 05:34:06
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (15SEP2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (16SEP2006 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)

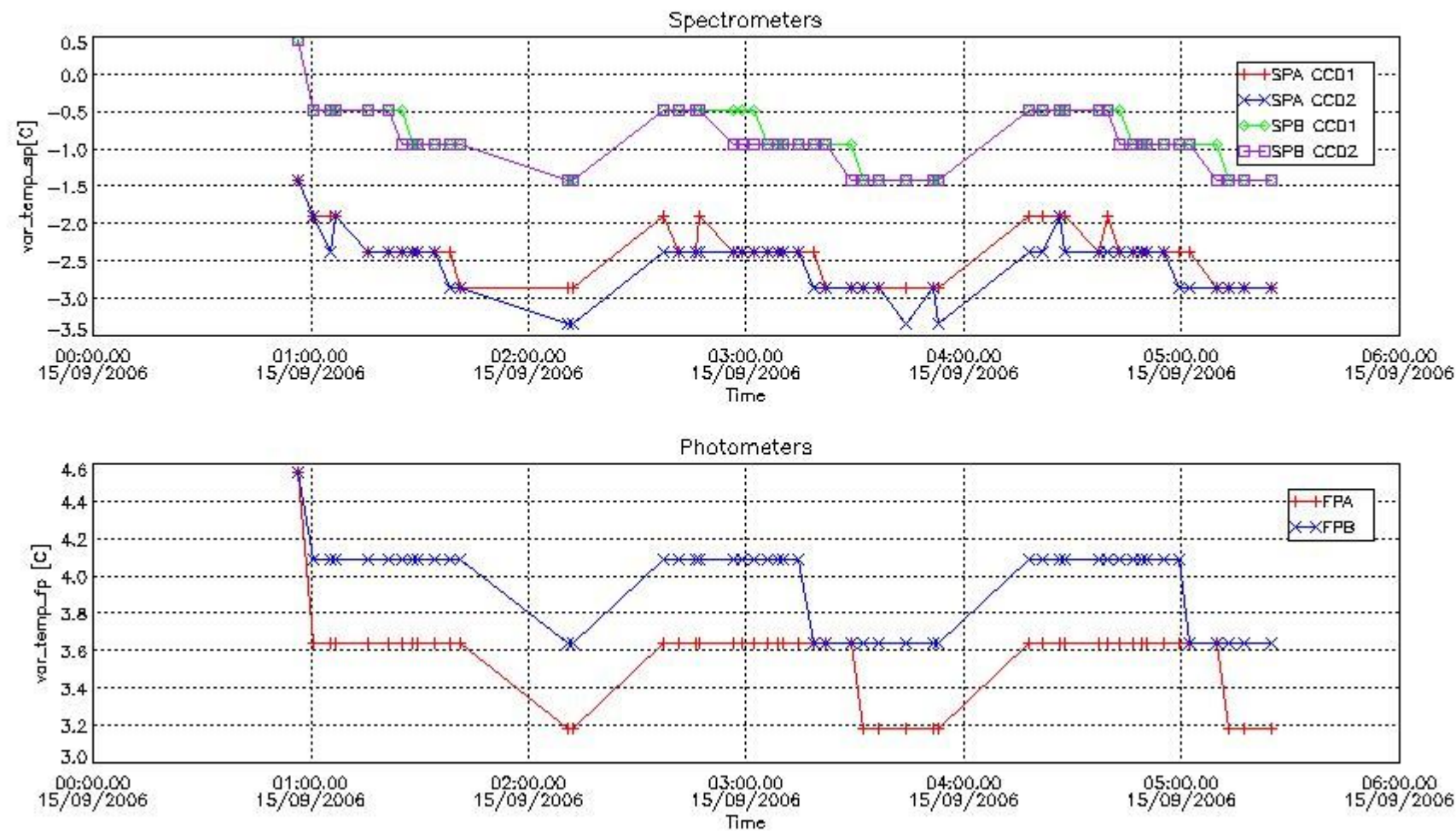
2.1 Level 0 products arrived in PCF (see template here)

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_1PNPDE20060915_005629_000000412051_00145_23746_1283.N1	15-SEP-2006 00:56:29	Dark	41.000	132	15Rho Pup	2.8030	6900.0	82	23746	No
2	GOM_TRA_1PNPDE20060915_010038_000000382051_00145_23746_1284.N1	15-SEP-2006 01:00:38	Dark	38.000	70	Zet Pup	2.2460	39000.	76	23746	No
3	GOM_TRA_1PNPDE20060915_010516_000000482051_00145_23746_1285.N1	15-SEP-2006 01:05:16	Dark	47.500	41	Eps Car	1.8600	4100.0	95	23746	No
4	GOM_TRA_1PNPDE20060915_010636_000000552051_00146_23747_1286.N1	15-SEP-2006 01:06:36	Dark	54.500	2	Alp Car	-0.73600	7000.0	109	23747	No
5	GOM_TRA_1PNPDE20060915_011553_000000382051_00146_23747_1287.N1	15-SEP-2006 01:15:53	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	23747	No
6	GOM_TRA_1PNPDE20060915_012126_000000412051_00146_23747_1288.N1	15-SEP-2006 01:21:26	Straylight	40.500	148	Alp Tuc	2.8780	4100.0	81	23747	No
7	GOM_TRA_1PNPDE20060915_012509_000000392051_00146_23747_1289.N1	15-SEP-2006 01:25:09	Straylight	38.500	31	Alp Gru	1.7340	15200.	77	23747	No
8	GOM_TRA_1PNPDE20060915_012756_000000382051_00146_23747_1290.N1	15-SEP-2006 01:27:56	Straylight	38.000	172	Gam Gru	3.0030	13100.	76	23747	No
9	GOM_TRA_1PNPDE20060915_012921_000000432051_00146_23747_1291.N1	15-SEP-2006 01:29:21	Straylight	42.500	18	24Alp PsA	1.1660	9700.0	85	23747	No
10	GOM_TRA_1PNPDE20060915_013353_000000402051_00146_23747_1292.N1	15-SEP-2006 01:33:53	Twilight_stray	39.500	142	49Del Cap	2.8500	8900.0	79	23747	No
11	GOM_TRA_1PNPDE20060915_013807_000000382051_00146_23747_1293.N1	15-SEP-2006 01:38:07	Bright	38.000	162	34Alp Aqr	2.9440	5350.0	76	23747	No
12	GOM_TRA_1PNPDE20060915_014107_000000372051_00146_23747_1294.N1	15-SEP-2006 01:41:07	Bright	37.000	61	8Eps Peg	2.1000	3900.0	74	23747	No
13	GOM_TRA_1PNPDE20060915_021052_000000372051_00146_23747_1284.N1	15-SEP-2006 02:10:52	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	23747	No
14	GOM_TRA_1PNPDE20060915_021218_000000352051_00146_23747_1285.N1	15-SEP-2006 02:12:18	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	23747	No
15	GOM_TRA_1PNPDE20060915_023705_000000422051_00146_23747_1286.N1	15-SEP-2006 02:37:05	Dark	42.000	132	15Rho Pup	2.8030	6900.0	84	23747	No
16	GOM_TRA_1PNPDE20060915_024115_000000402051_00146_23747_1287.N1	15-SEP-2006 02:41:15	Dark	39.500	70	Zet Pup	2.2460	39000.	79	23747	No
17	GOM_TRA_1PNPDE20060915_024553_000000492051_00146_23747_1288.N1	15-SEP-2006 02:45:53	Dark	49.000	41	Eps Car	1.8600	4100.0	98	23747	No
18	GOM_TRA_1PNPDE20060915_024713_000000522051_00147_23748_1289.N1	15-SEP-2006 02:47:13	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	23748	No
19	GOM_TRA_1PNPDE20060915_025629_000000402051_00147_23748_1290.N1	15-SEP-2006 02:56:29	Dark	39.500	135	Bet Hyi	2.8200	5800.0	79	23748	No
20	GOM_TRA_1PNPDE20060915_025856_000000262051_00147_23748_1291.N1	15-SEP-2006 02:58:56	Dark	26.000	9	Alp Eri	0.45300	24000.	52	23748	No
21	GOM_TRA_1PNPDE20060915_030202_000000402051_00147_23748_1292.N1	15-SEP-2006 03:02:02	Straylight	39.500	148	Alp Tuc	2.8780	4100.0	79	23748	No
22	GOM_TRA_1PNPDE20060915_030546_000000412051_00147_23748_1293.N1	15-SEP-2006 03:05:46	Straylight	41.000	31	Alp Gru	1.7340	15200.	82	23748	No
23	GOM_TRA_1PNPDE20060915_030833_000000372051_00147_23748_1294.N1	15-SEP-2006 03:08:33	Straylight	37.000	172	Gam Gru	3.0030	13100.	74	23748	No
24	GOM_TRA_1PNPDE20060915_030958_000000462051_00147_23748_1295.N1	15-SEP-2006 03:09:58	Straylight	45.500	18	24Alp PsA	1.1660	9700.0	91	23748	No
25	GOM_TRA_1PNPDE20060915_031430_000000362051_00147_23748_1296.N1	15-SEP-2006 03:14:30	Twilight_stray	36.000	142	49Del Cap	2.8500	8900.0	72	23748	No
26	GOM_TRA_1PNPDE20060915_031844_000000372051_00147_23748_1297.N1	15-SEP-2006 03:18:44	Bright	37.000	162	34Alp Aqr	2.9440	5350.0	74	23748	No
27	GOM_TRA_1PNPDE20060915_032144_000000382051_00147_23748_1298.N1	15-SEP-2006 03:21:44	Bright	37.500	61	8Eps Peg	2.1000	3900.0	75	23748	No
28	GOM_TRA_1PNPDE20060915_032900_000000372051_00147_23748_1299.N1	15-SEP-2006 03:29:00	Bright	36.500	92	53Eps Cyg	2.5000	4500.0	73	23748	No
29	GOM_TRA_1PNPDE20060915_033206_000000362051_00147_23748_1300.N1	15-SEP-2006 03:32:06	Bright	36.000	19	50Alp Cyg	1.2460	10500.	72	23748	No
30	GOM_TRA_1PNPDE20060915_033631_000000352051_00147_23748_1301.N1	15-SEP-2006 03:36:31	Bright	34.500	89	5Alp Cep	2.4510	8000.0	69	23748	No
31	GOM_TRA_1PNPDE20060915_034412_000000322051_00147_23748_1302.N1	15-SEP-2006 03:44:12	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	23748	No
32	GOM_TRA_1PNPDE20060915_035129_000000372051_00147_23748_1286.N1	15-SEP-2006 03:51:29	Bright	36.500	36	50Alp UMa	1.8000	6300.0	73	23748	No
33	GOM_TRA_1PNPDE20060915_035255_000000382051_00147_23748_1287.N1	15-SEP-2006 03:52:55	Bright	38.000	82	48Bet UMa	2.3650	10600.	76	23748	No
34	GOM_TRA_1PNPDE20060915_041742_000000402051_00147_23748_1288.N1	15-SEP-2006 04:17:42	Dark	40.000	132	15Rho Pup	2.8030	6900.0	80	23748	No
35	GOM_TRA_1PNPDE20060915_042152_000000392051_00147_23748_1289.N1	15-SEP-2006 04:21:52	Dark	38.500	70	Zet Pup	2.2460	39000.	77	23748	No
36	GOM_TRA_1PNPDE20060915_042629_000000452051_00147_23748_1290.N1	15-SEP-2006 04:26:29	Dark	44.500	41	Eps Car	1.8600	4100.0	89	23748	No
37	GOM_TRA_1PNPDE20060915_042750_000000562051_00148_23749_1291.N1	15-SEP-2006 04:27:50	Dark	56.000	2	Alp Car	-0.73600	7000.0	112	23749	No
38	GOM_TRA_1PNPDE20060915_043705_000000392051_00148_23749_1292.N1	15-SEP-2006 04:37:05	Dark	38.500	135	Bet Hyi	2.8200	5800.0	77	23749	No
39	GOM_TRA_1PNPDE20060915_043933_000000262051_00148_23749_1293.N1	15-SEP-2006 04:39:33	Dark	26.000	9	Alp Eri	0.45300	24000.	52	23749	No
40	GOM_TRA_1PNPDE20060915_044238_000000452051_00148_23749_1294.N1	15-SEP-2006 04:42:38	Straylight	44.500	148	Alp Tuc	2.8780	4100.0	89	23749	No
41	GOM_TRA_1PNPDE20060915_044622_000000422051_00148_23749_1295.N1	15-SEP-2006 04:46:22	Straylight	41.500	31	Alp Gru	1.7340	15200.	83	23749	No
42	GOM_TRA_1PNPDE20060915_044909_000000372051_00148_23749_1296.N1	15-SEP-2006 04:49:09	Straylight	36.500	172	Gam Gru	3.0030	13100.	73	23749	No

43	GOM_TRA_1PNPDE20060915_045034_000000422051_00148_23749_1297.N1	15-SEP-2006 04:50:34	Straylight	42.000	18	24Alp PsA	1.1660	9700.0	84	23749	No
44	GOM_TRA_1PNPDE20060915_045506_000000372051_00148_23749_1298.N1	15-SEP-2006 04:55:06	Twilight_stray	36.500	142	49Del Cap	2.8500	8900.0	73	23749	No
45	GOM_TRA_1PNPDE20060915_045920_000000372051_00148_23749_1299.N1	15-SEP-2006 04:59:20	Bright	36.500	162	34Alp Aqr	2.9440	5350.0	73	23749	No
46	GOM_TRA_1PNPDE20060915_050220_000000372051_00148_23749_1300.N1	15-SEP-2006 05:02:20	Bright	37.000	61	8Eps Peg	2.1000	3900.0	74	23749	No
47	GOM_TRA_1PNPDE20060915_050936_000000362051_00148_23749_1301.N1	15-SEP-2006 05:09:36	Bright	36.000	92	53Eps Cyg	2.5000	4500.0	72	23749	No
48	GOM_TRA_1PNPDE20060915_051242_000000362051_00148_23749_1302.N1	15-SEP-2006 05:12:42	Bright	36.000	19	50Alp Cyg	1.2460	10500.0	72	23749	No
49	GOM_TRA_1PNPDE20060915_051707_000000352051_00148_23749_1303.N1	15-SEP-2006 05:17:07	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	23749	No
50	GOM_TRA_1PNPDE20060915_052448_000000332051_00148_23749_1304.N1	15-SEP-2006 05:24:48	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	23749	No

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



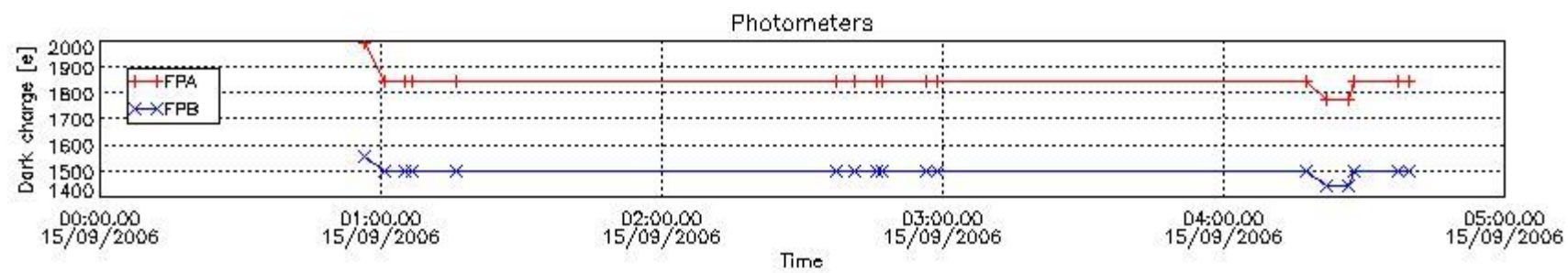
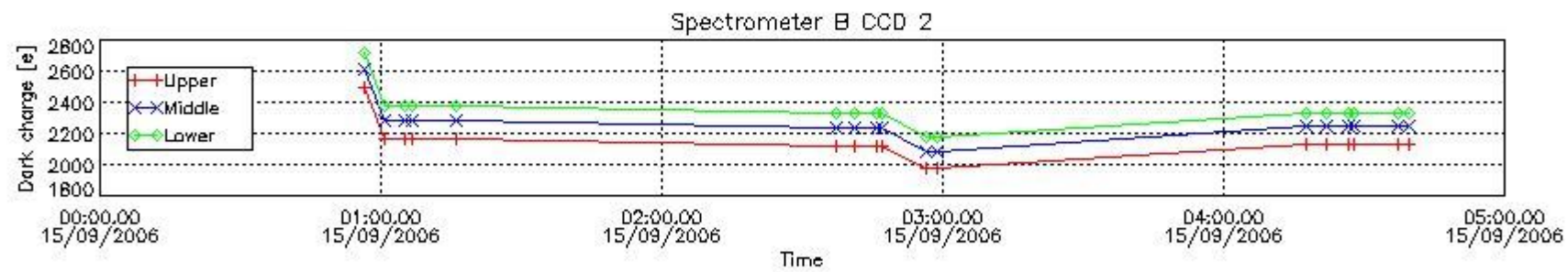
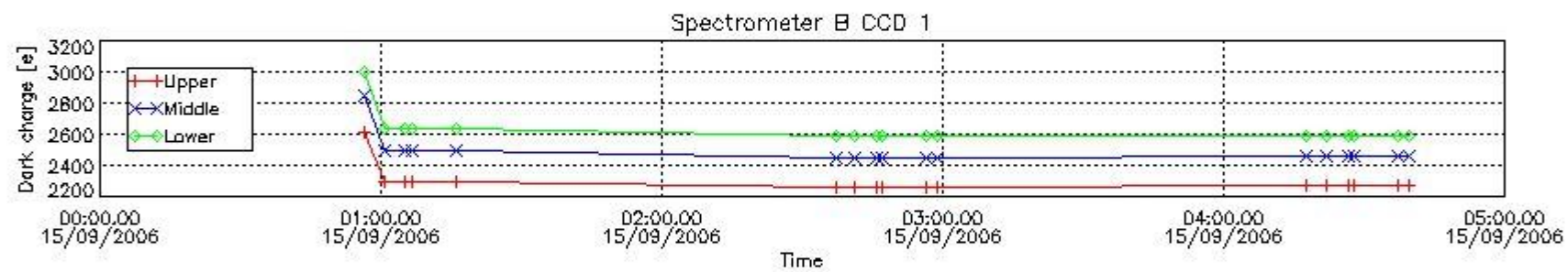
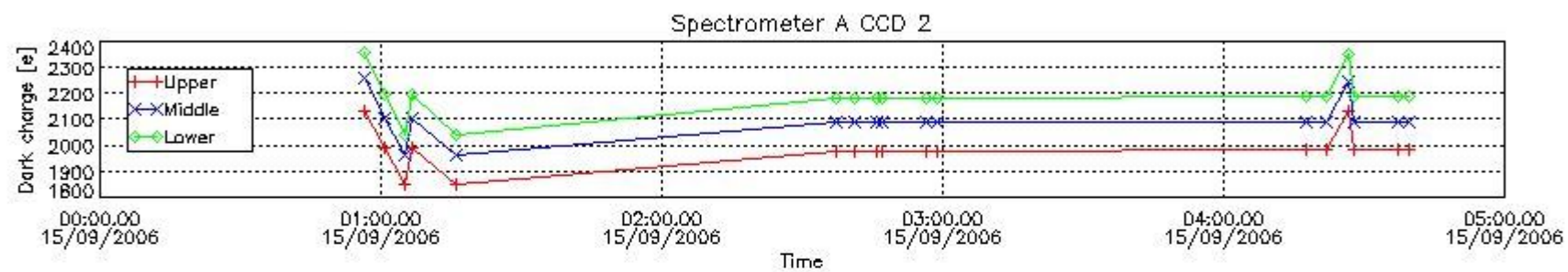
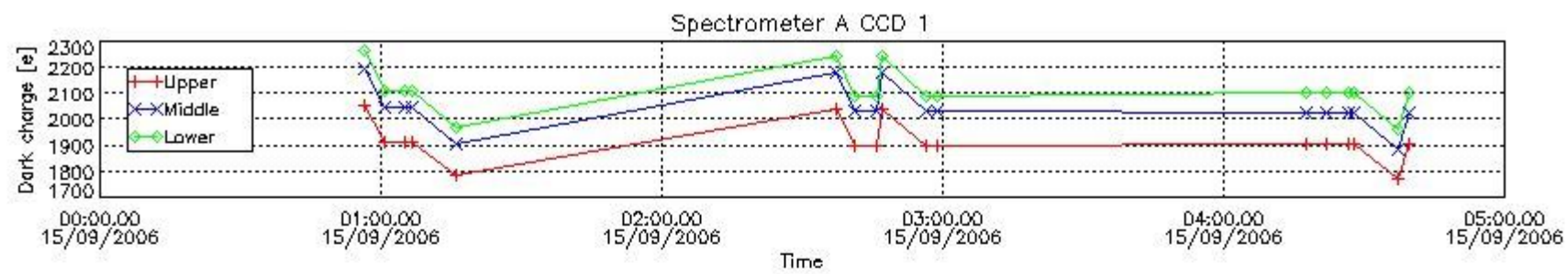
4. Overview of dark signal processing per product

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



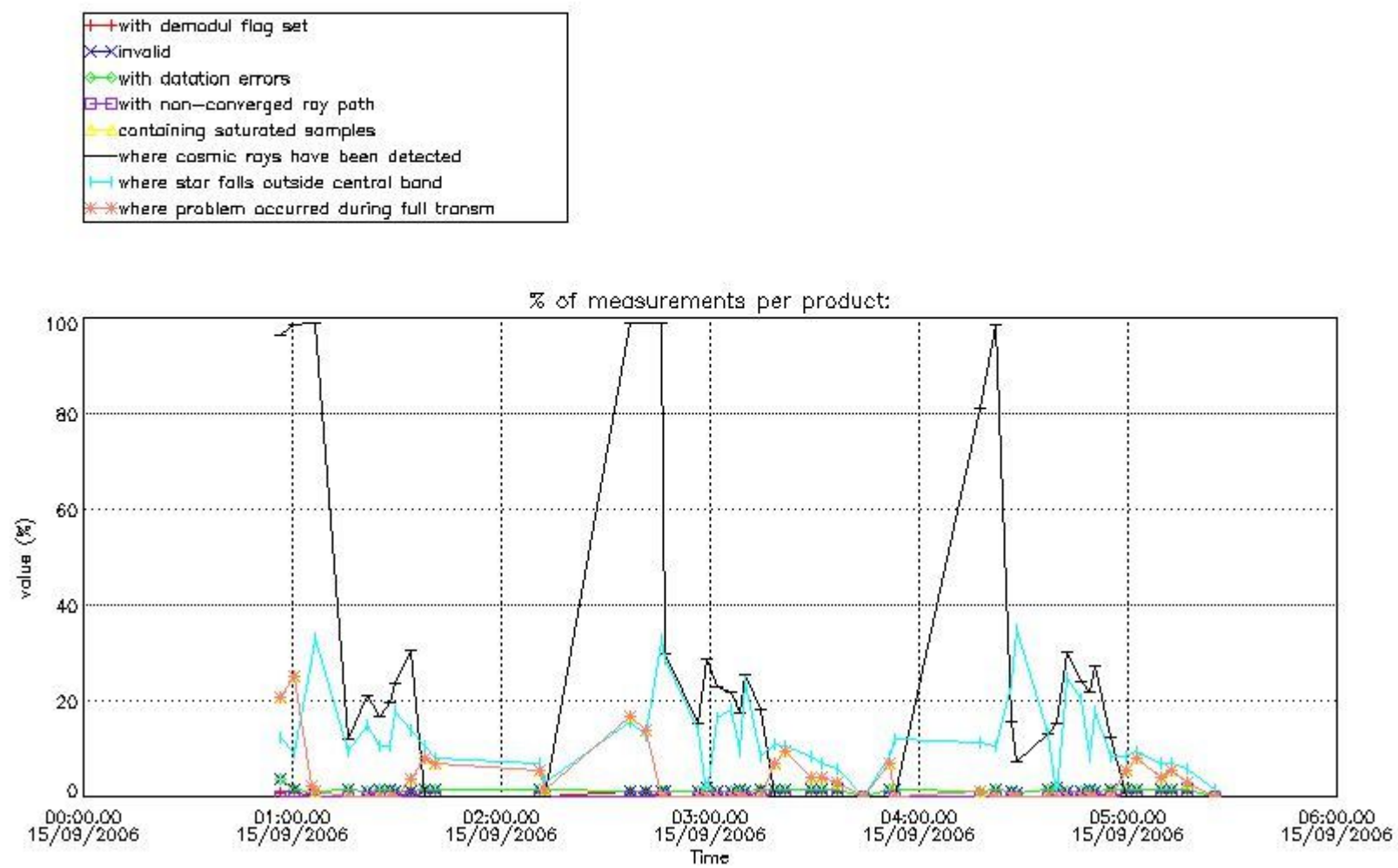
5. Demodulation flag and quality information monitoring

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.

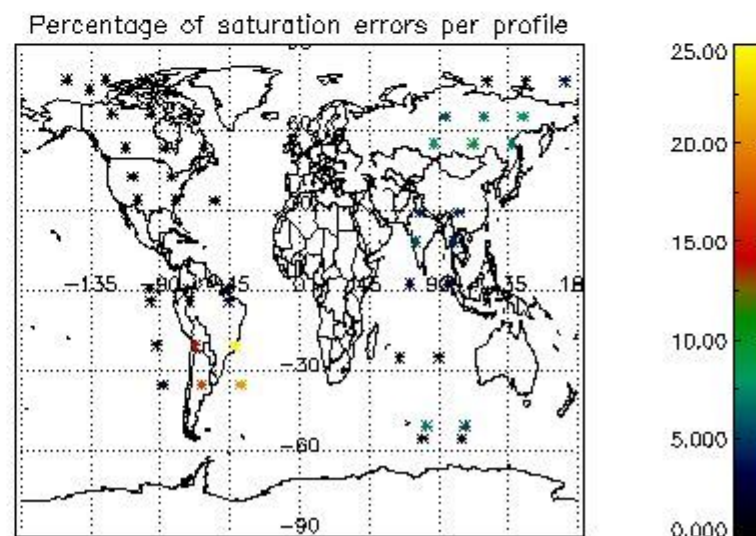
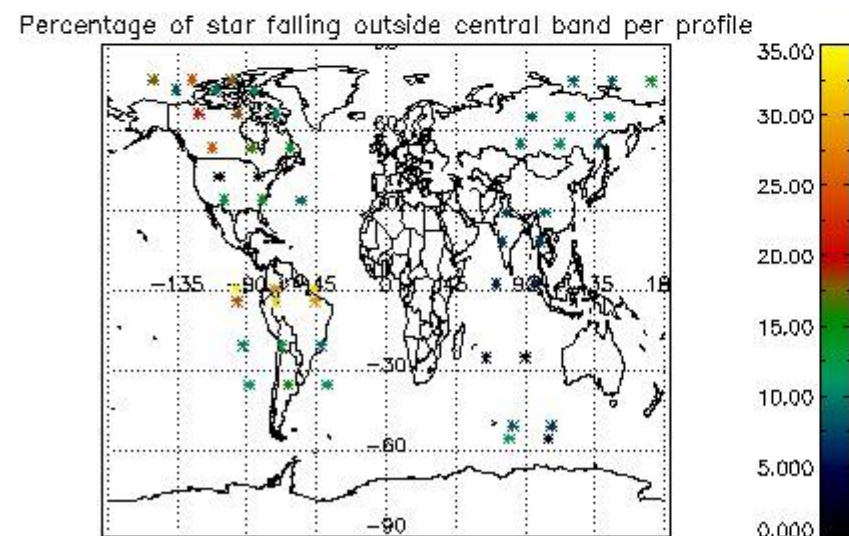
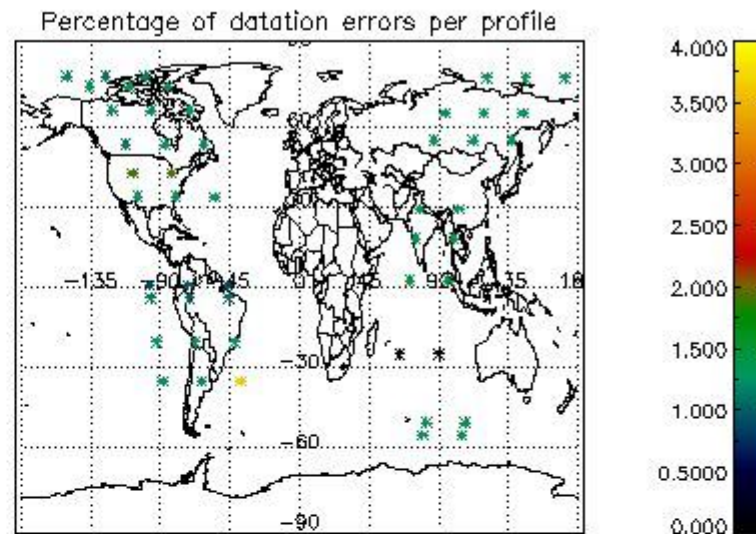
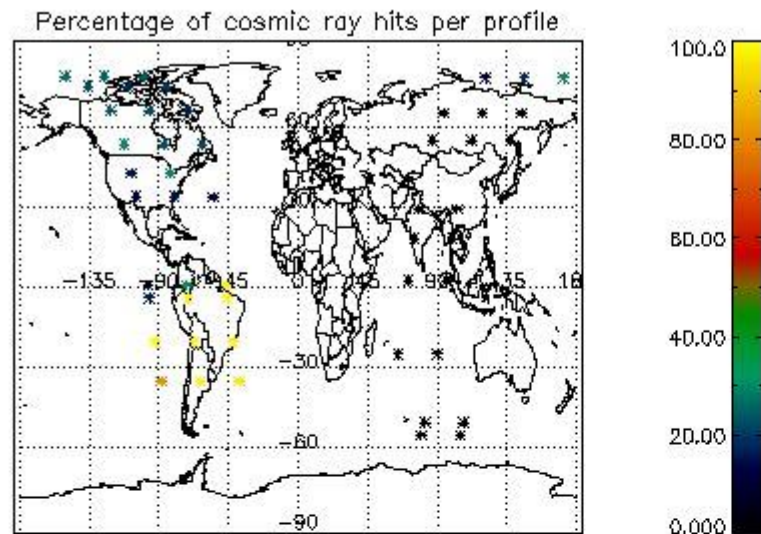
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	26.0000 %
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)



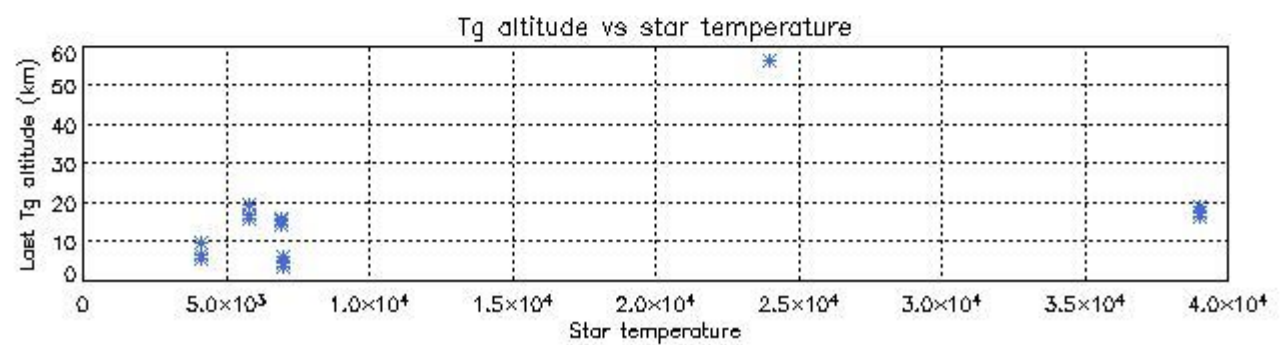
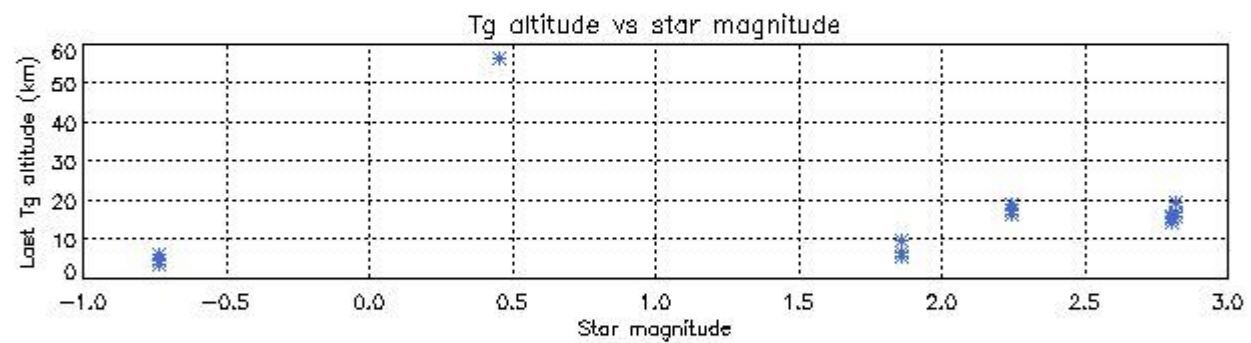
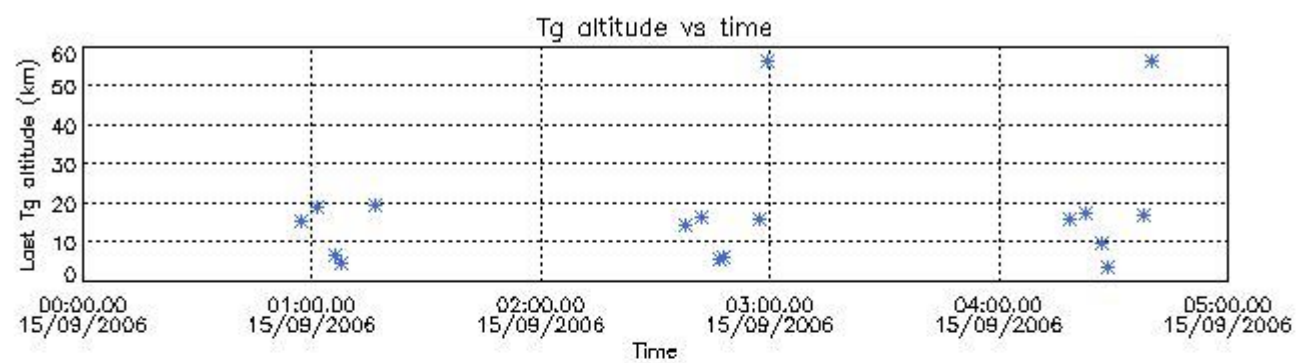
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.616	20.612	NaN
St. deviation:	15.536	3.6974	NaN
Maximum:	56.460	30.056	NaN
Minimum:	3.3726	16.719	NaN
Number of data:	17.000	18.000	NaN

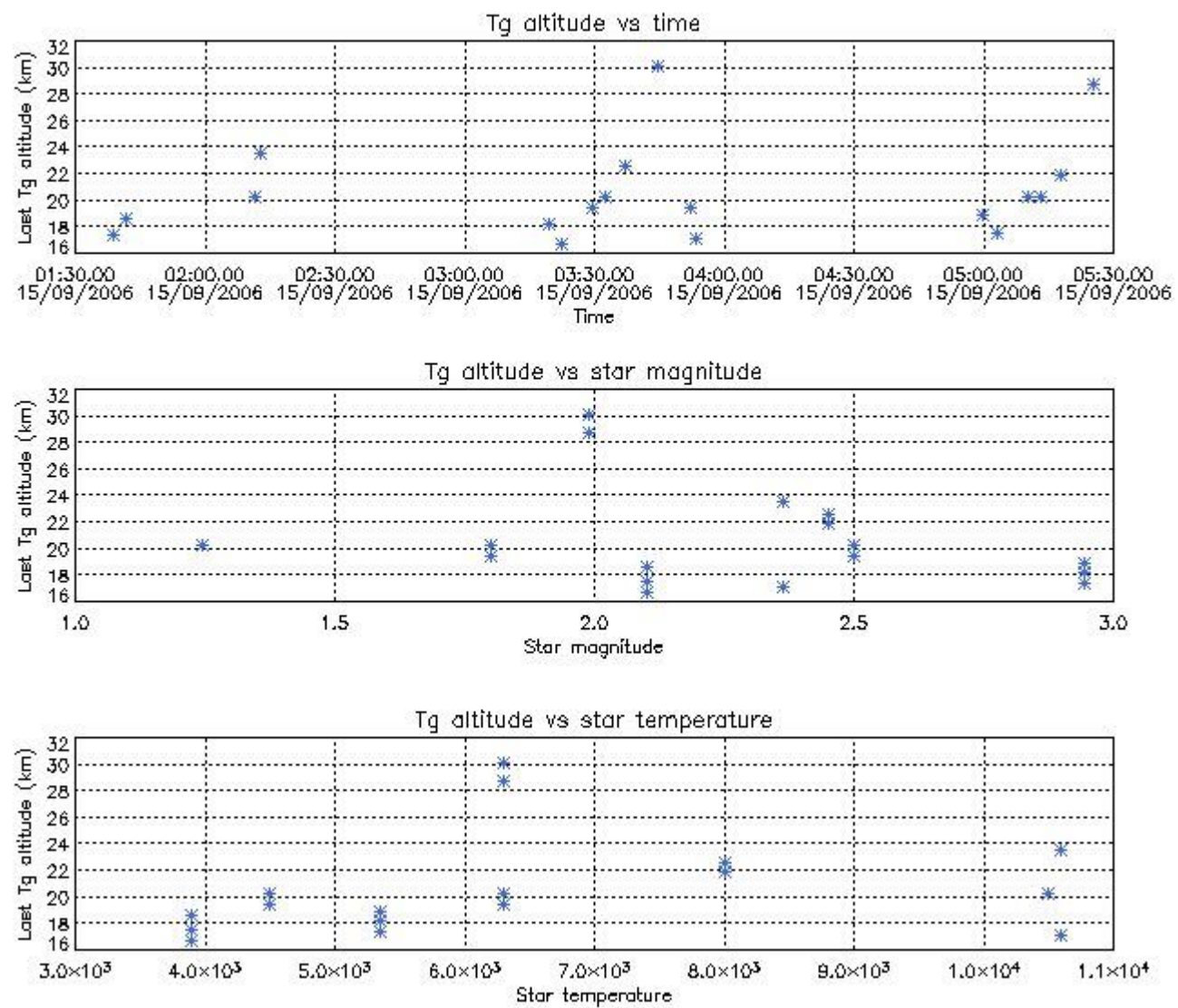
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

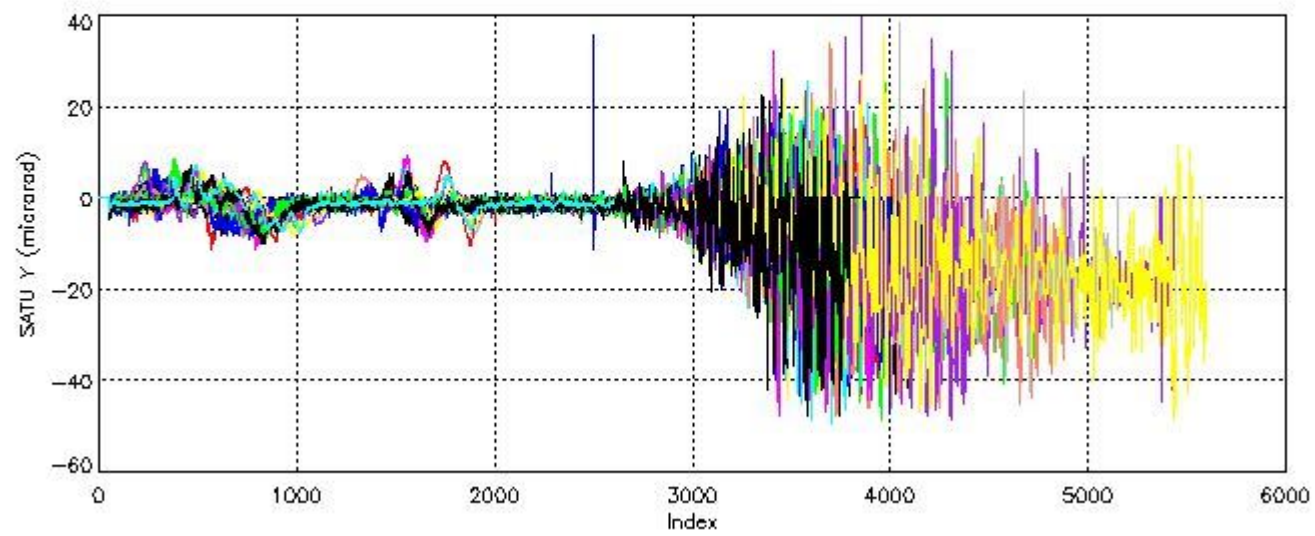
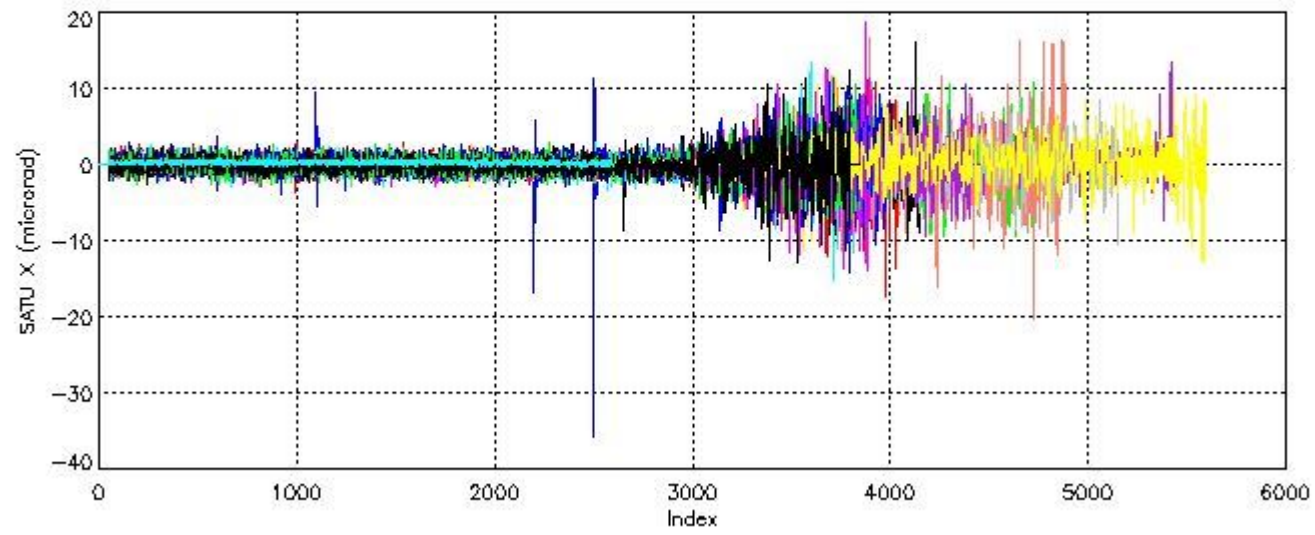


7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

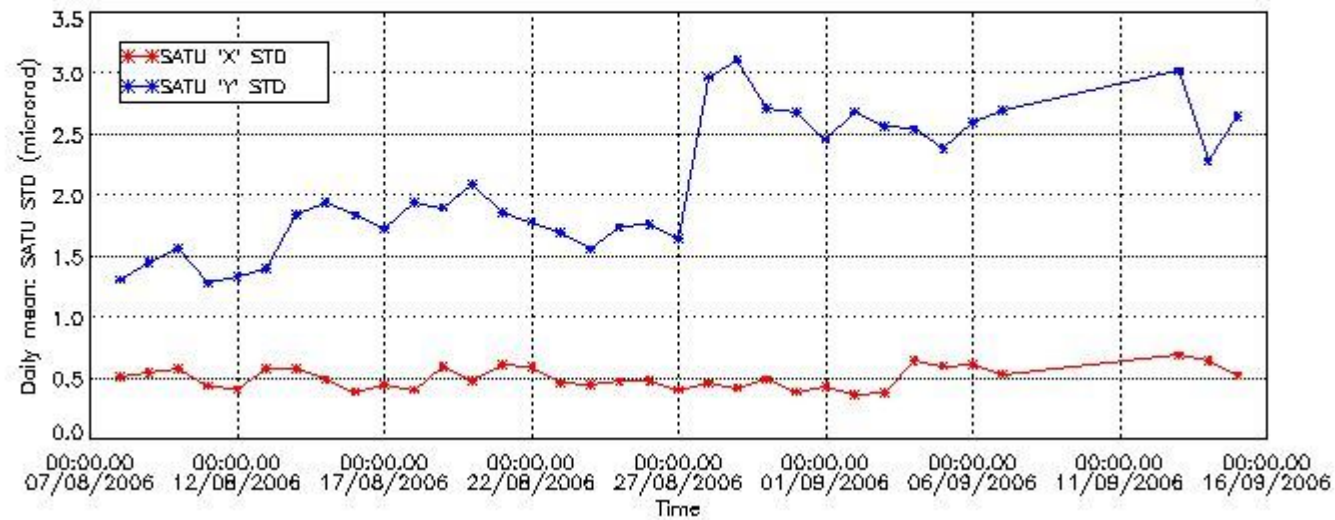
Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.026761	-1.0706	-0.035803	-1.0132
St. deviation:	0.51954	2.6443	0.63672	2.7566
Maximum:	3.7000	8.5000	3.2000	9.3000
Minimum:	-0.30000	-7.4000	-1.7000	-10.300

7.2.2 Trend of daily SATU NEA St. deviation during the last two months (dark limb)

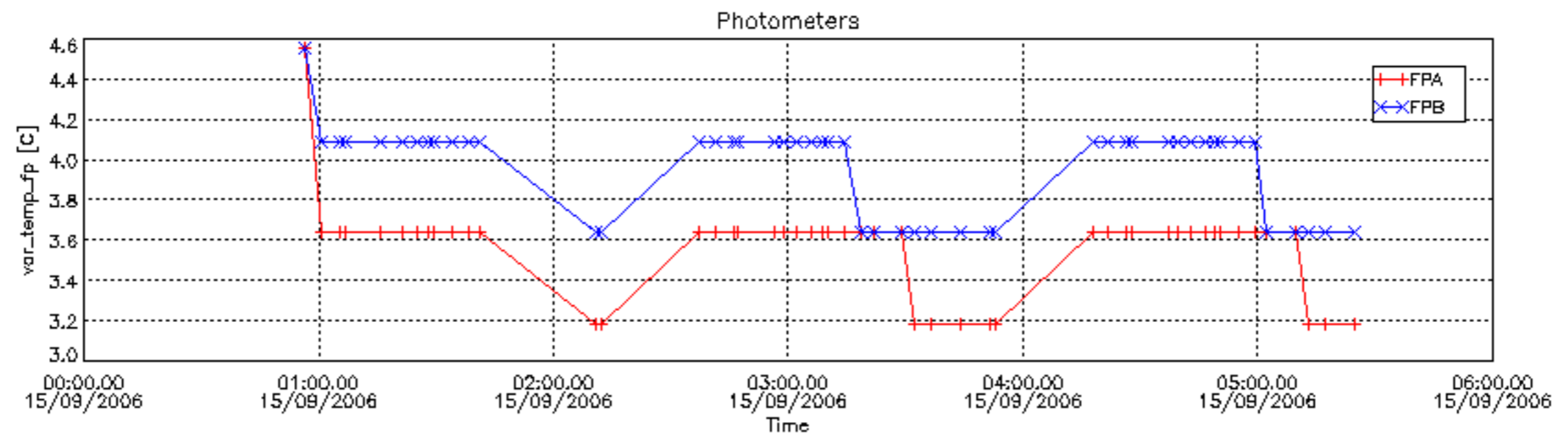
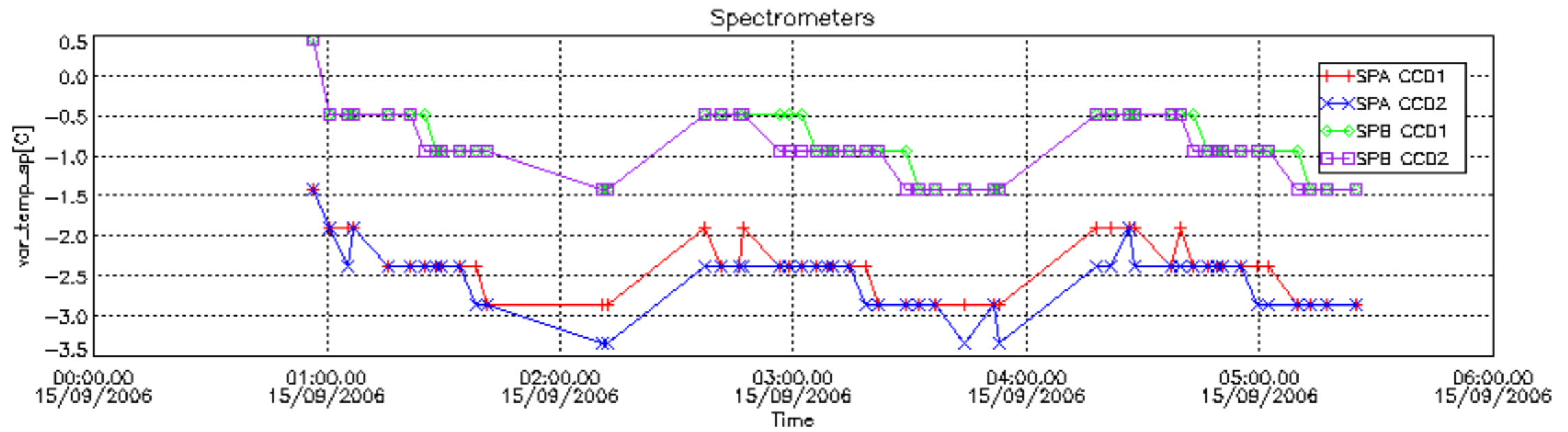
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

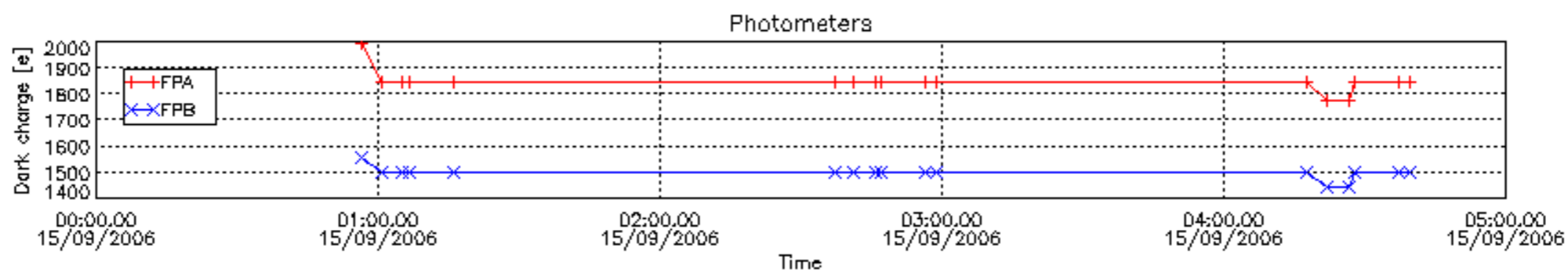
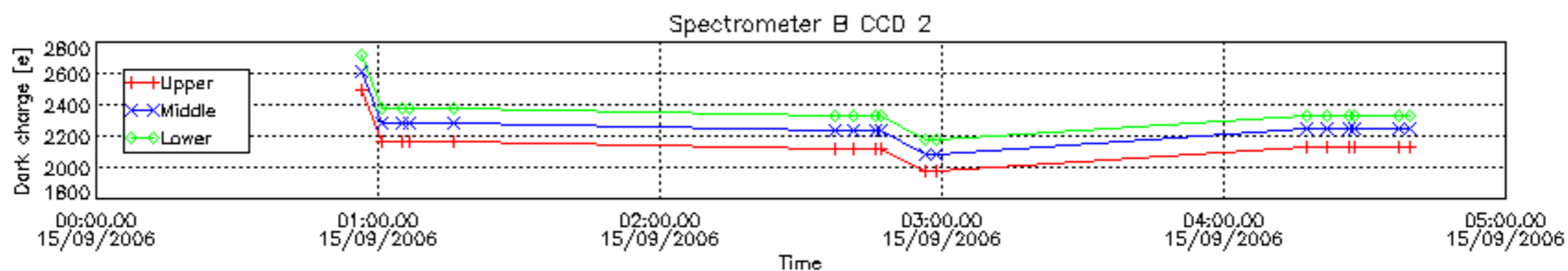
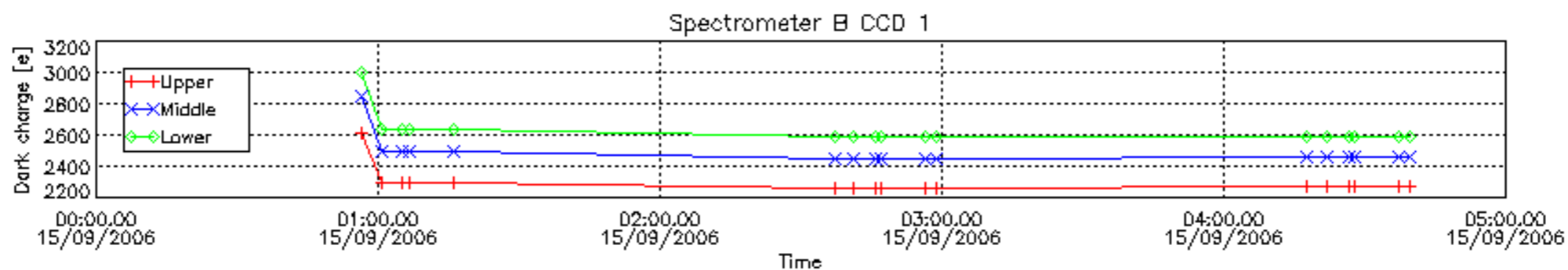
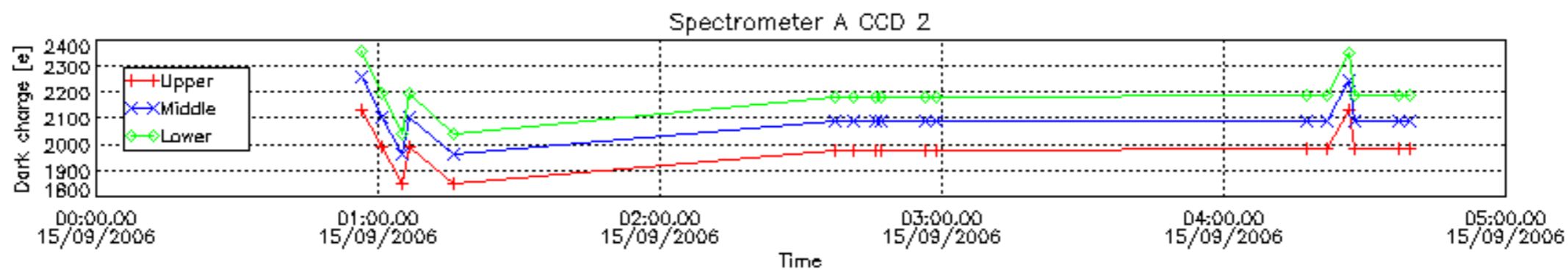
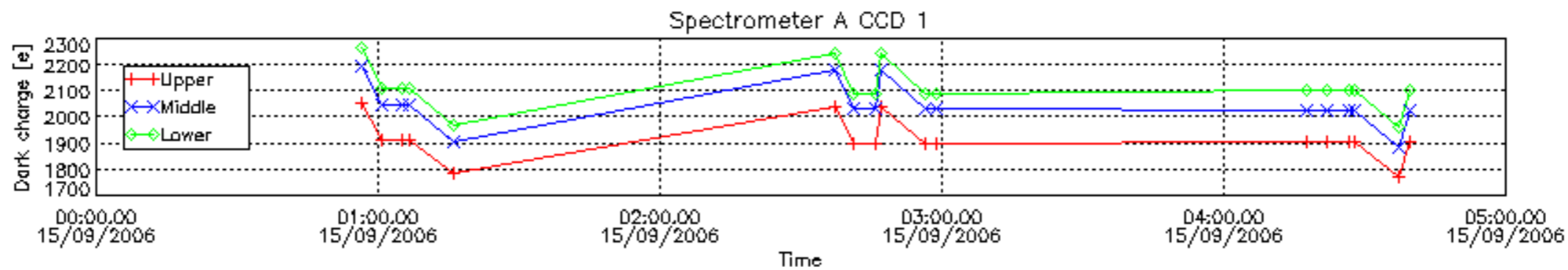


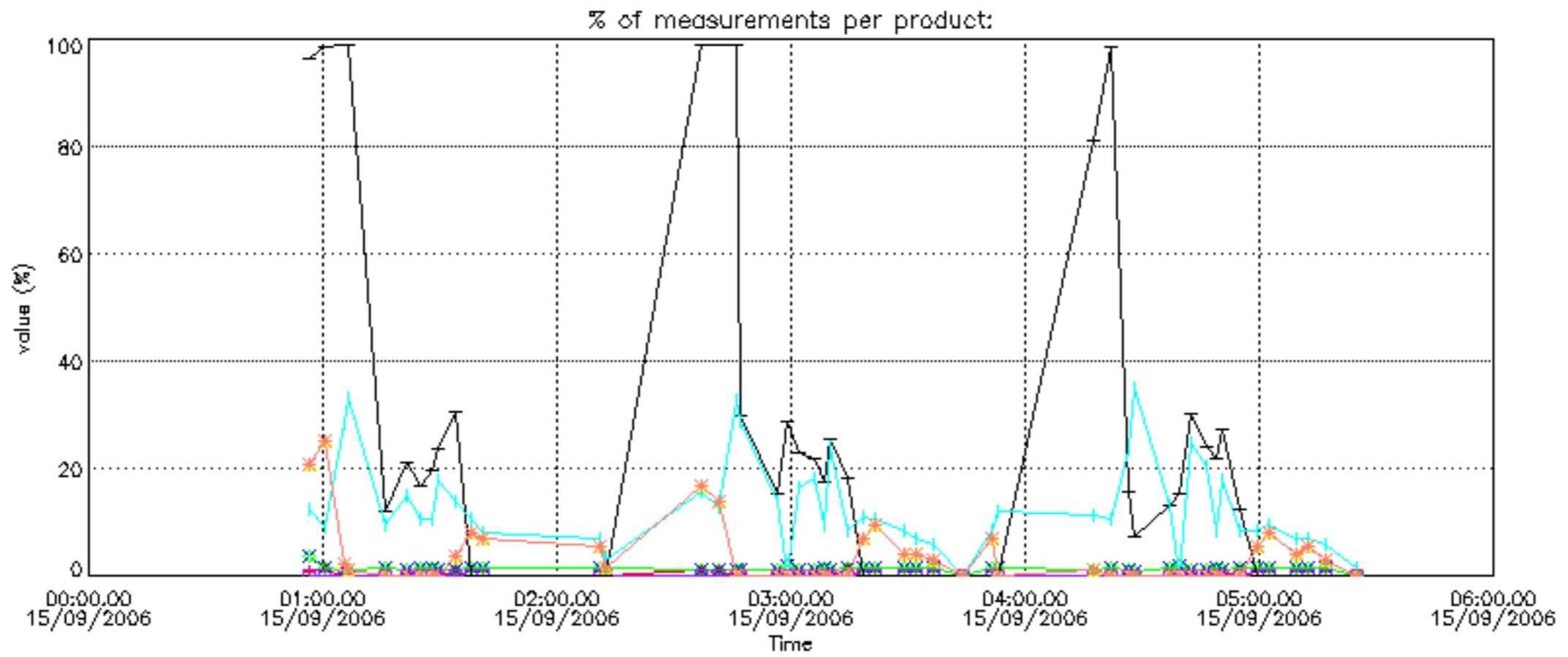
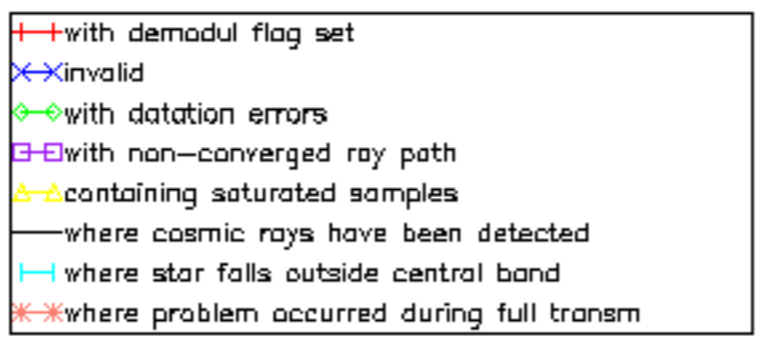
8. Auxiliary Data Files used for the production reported in section 2.2

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.

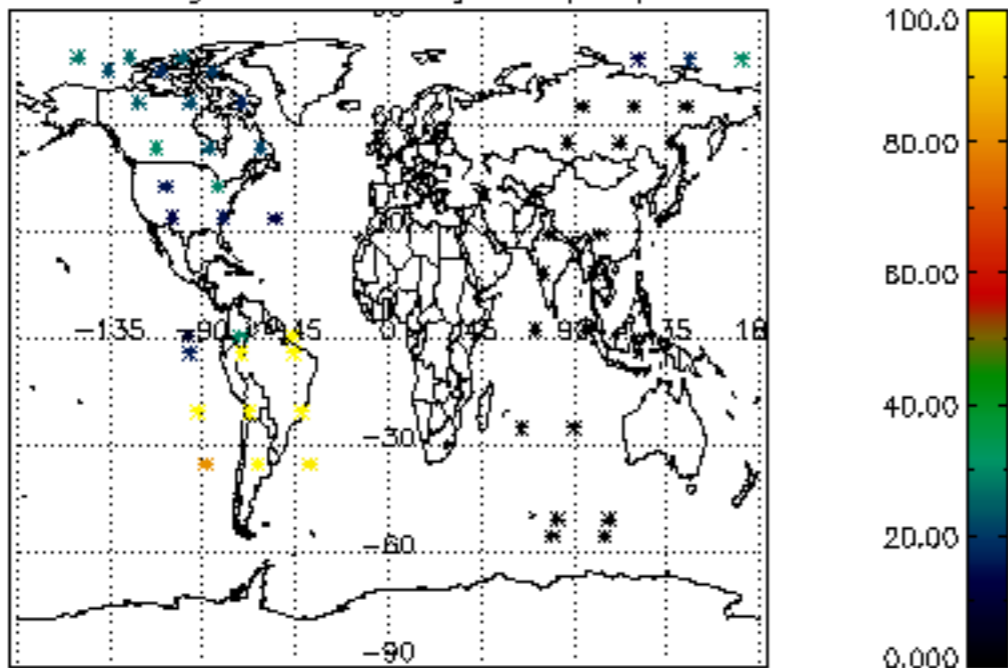
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	15-SEP-2006 00:56:29
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060904_154109_20060902_000000_20100101_000000	1	15-SEP-2006 00:56:29
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	15-SEP-2006 00:56:29
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	15-SEP-2006 00:56:29
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	15-SEP-2006 00:56:29
ECMWF_FILE	AUX_ECF_AXNECM20060914_062942_20060914_210000_20060915_090000	1	15-SEP-2006 00:56:29
ECMWF_FILE	AUX_ECA_AXNECM20060915_060943_20060914_210000_20060915_090000	32	15-SEP-2006 03:51:29
OPTIONAL_ECMWF_FILE	MISSING	1	15-SEP-2006 00:56:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060915_005251_000038252051_00145_23746_0560.N1	1	15-SEP-2006 00:56:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060915_020155_000057382051_00146_23747_0561.N1	13	15-SEP-2006 02:10:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060915_034252_000057382051_00147_23748_0562.N1	32	15-SEP-2006 03:51:29



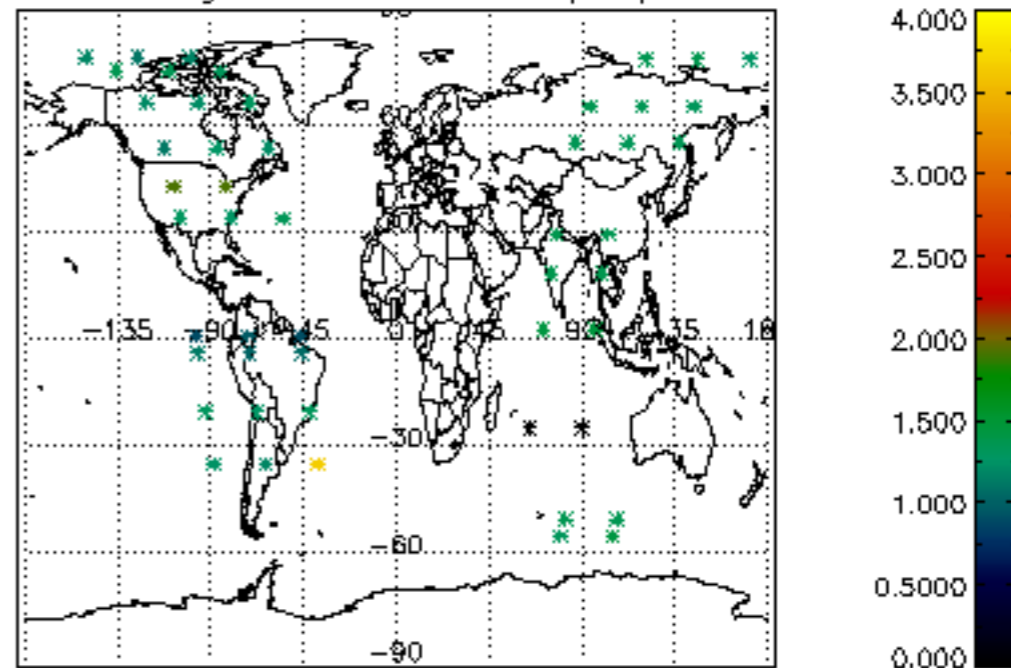




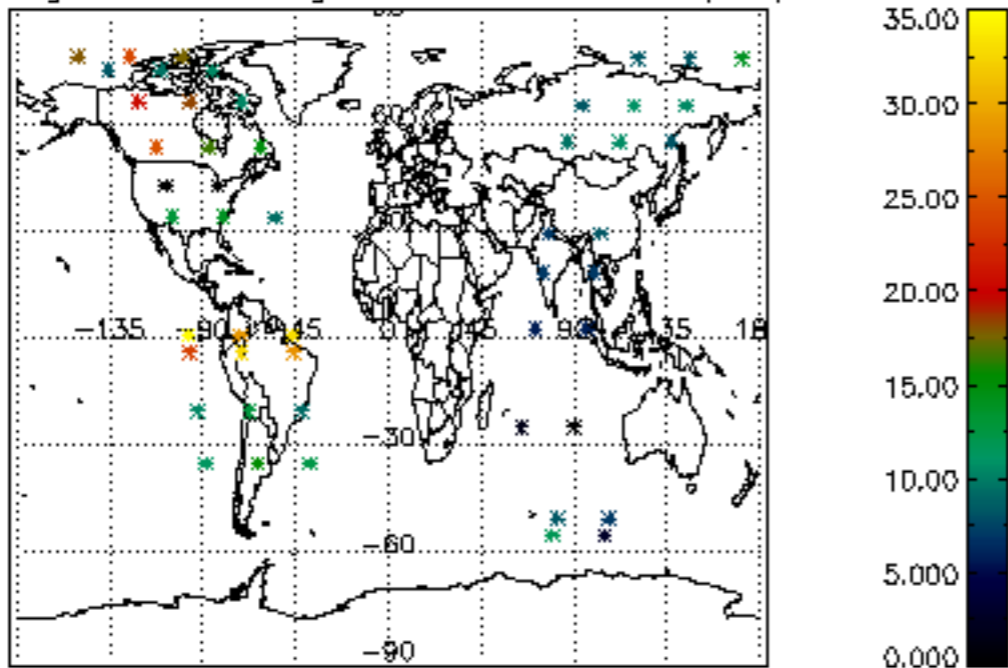
Percentage of cosmic ray hits per profile



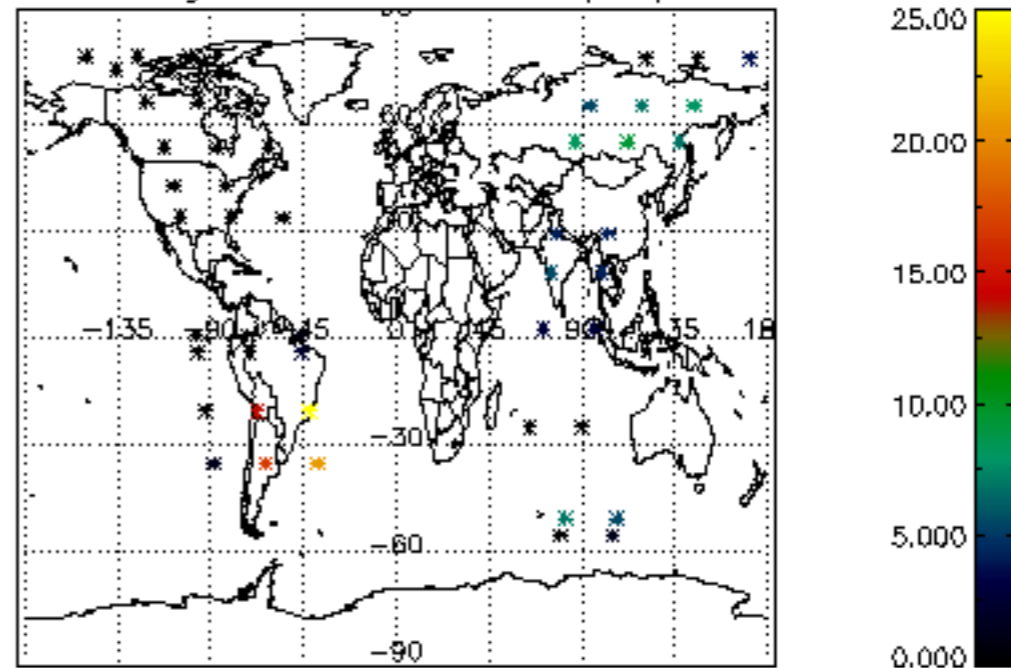
Percentage of datation errors per profile



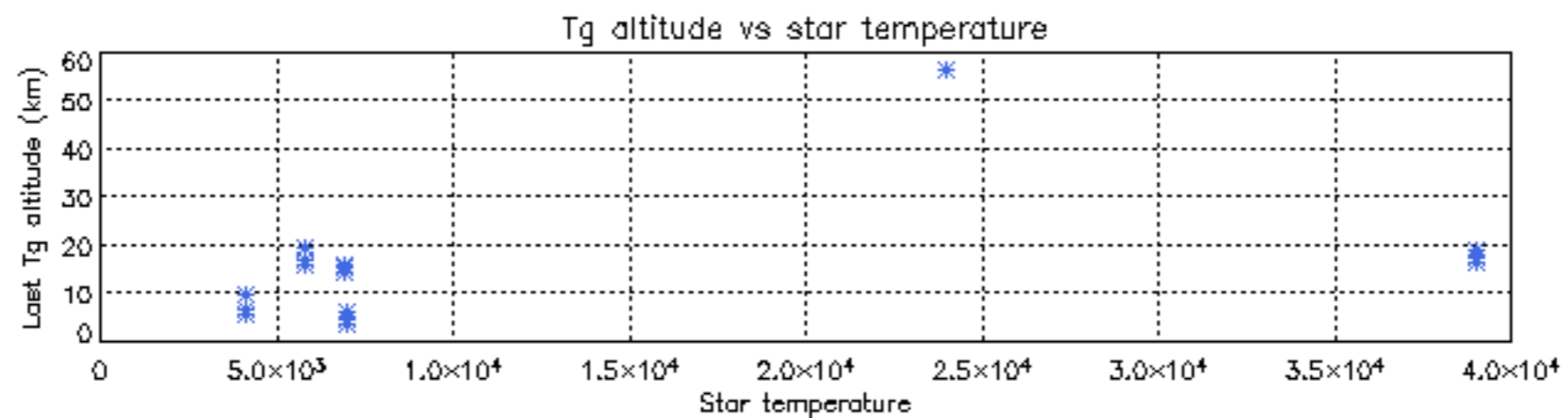
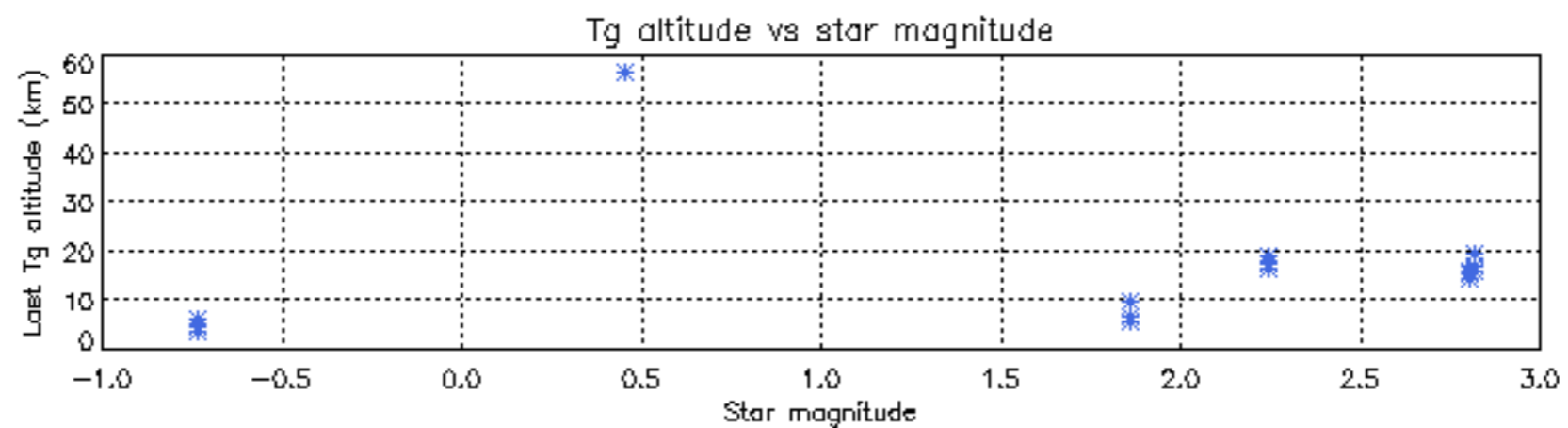
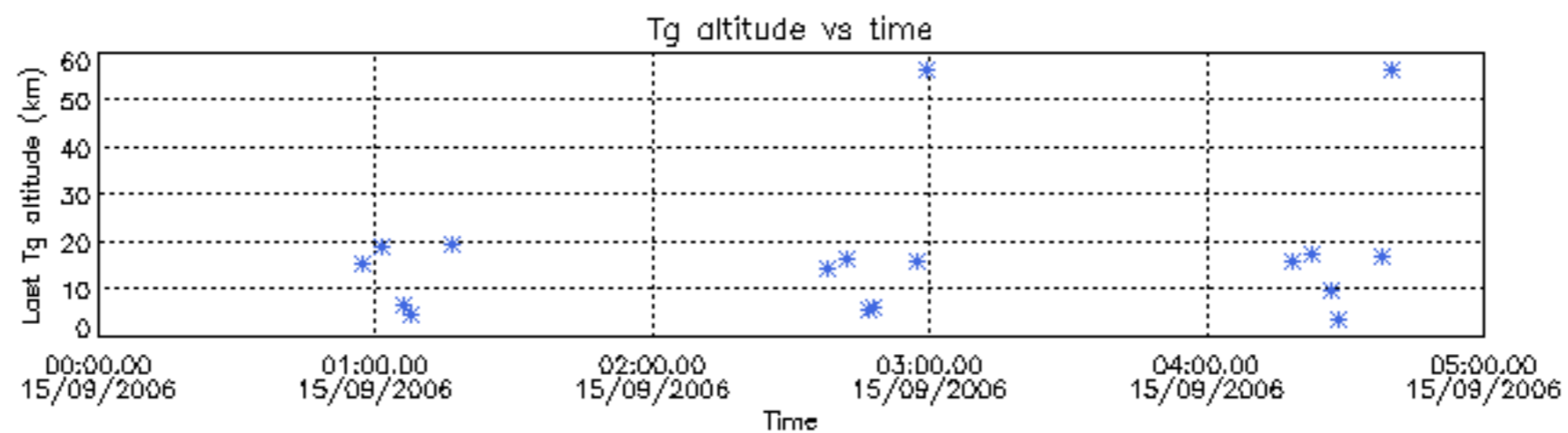
Percentage of star falling outside central band per profile



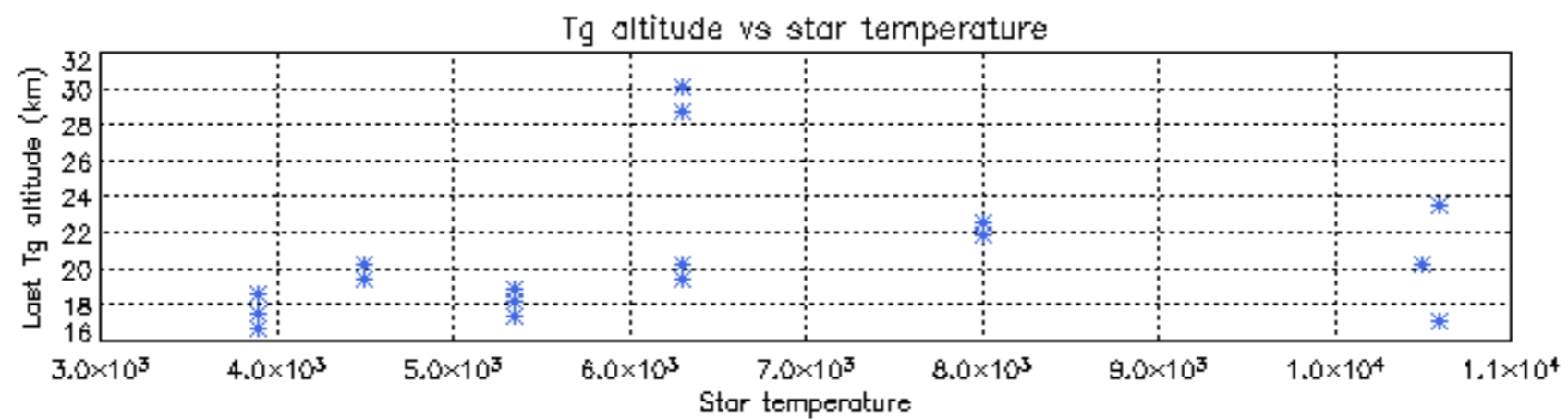
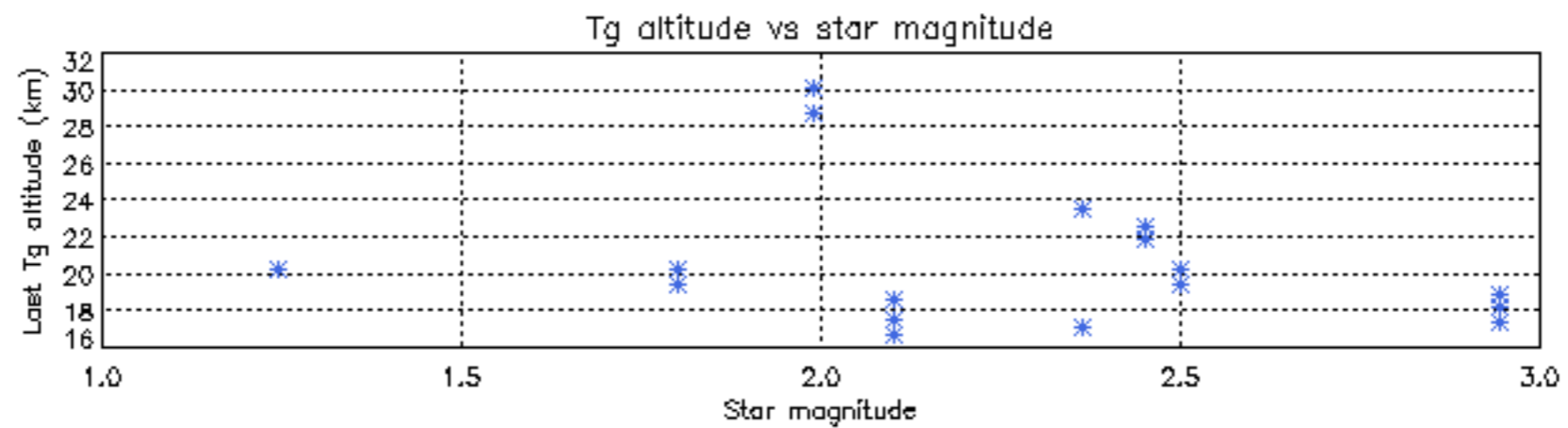
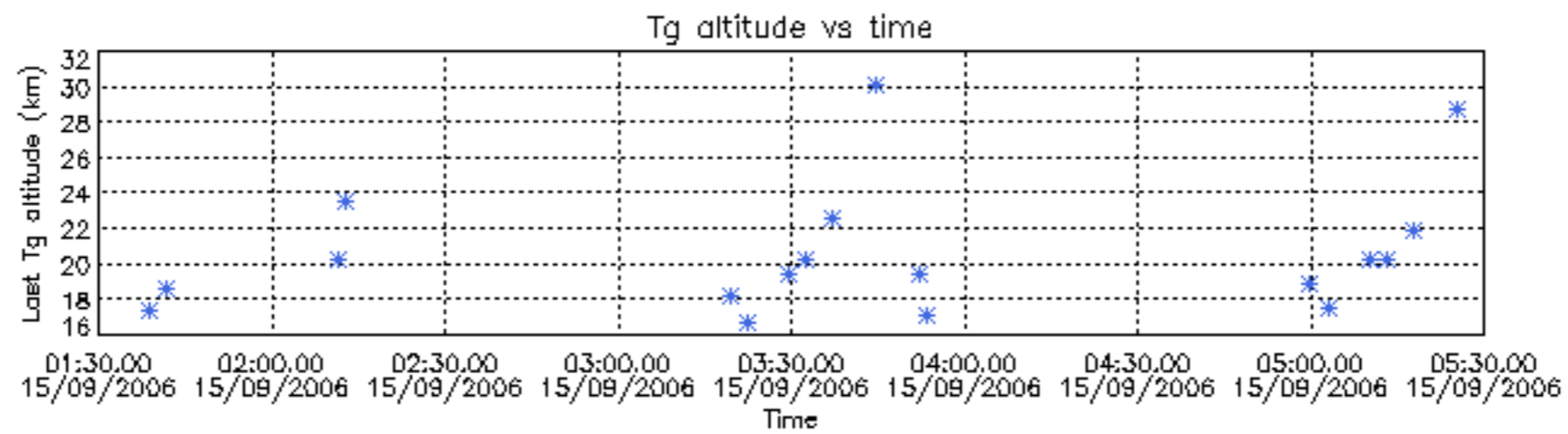
Percentage of saturation errors per profile

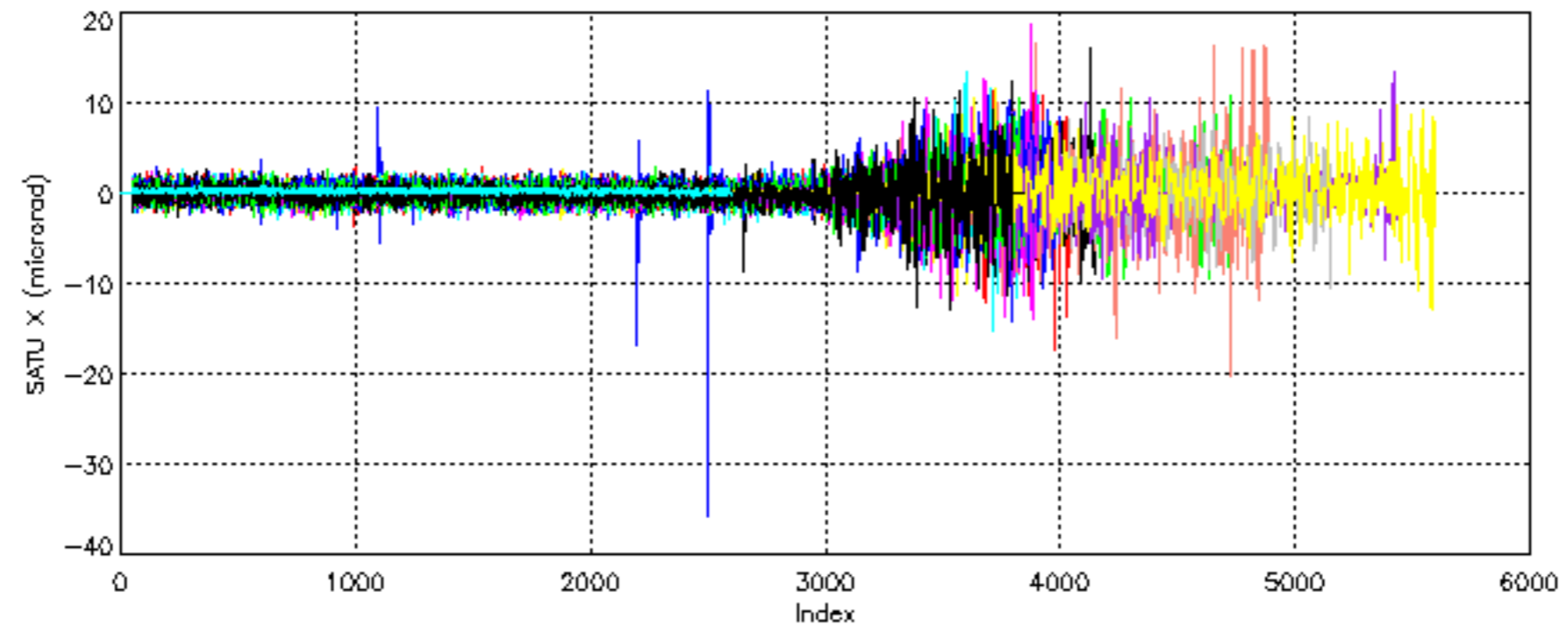


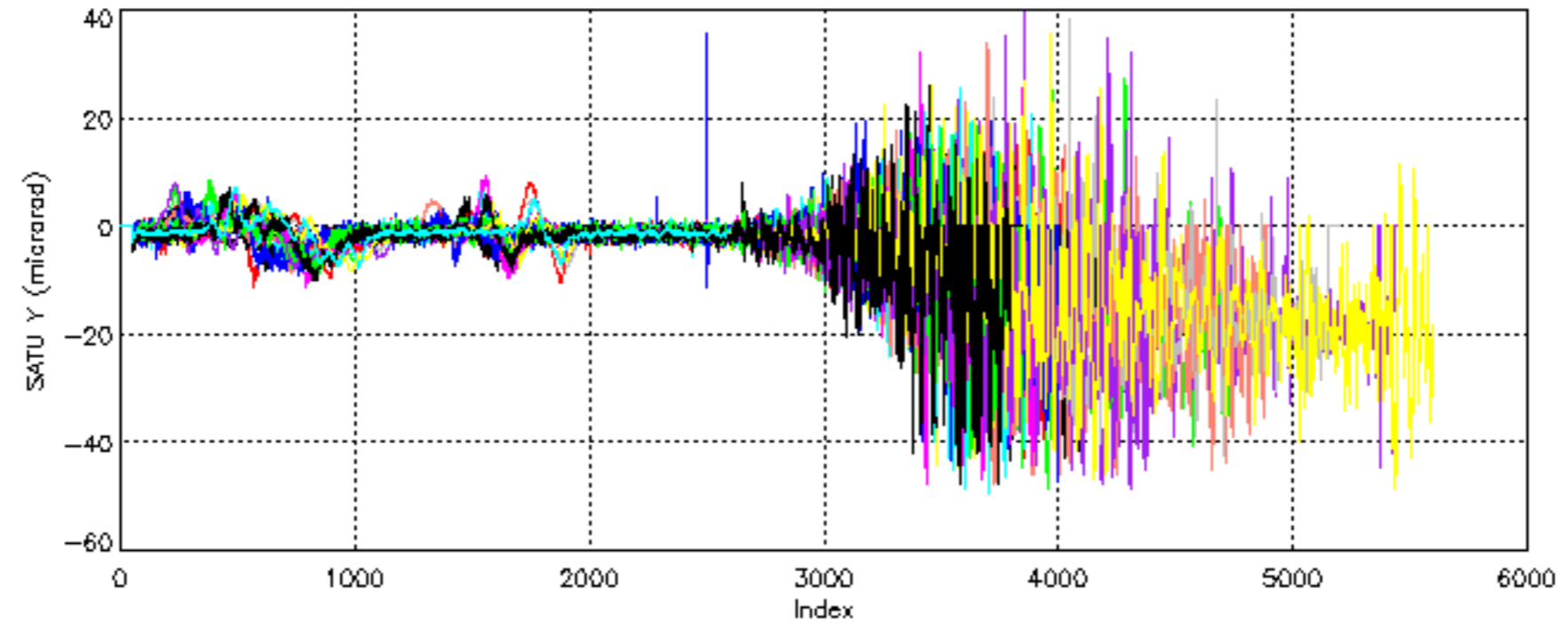
Tangent altitude at which the star is lost

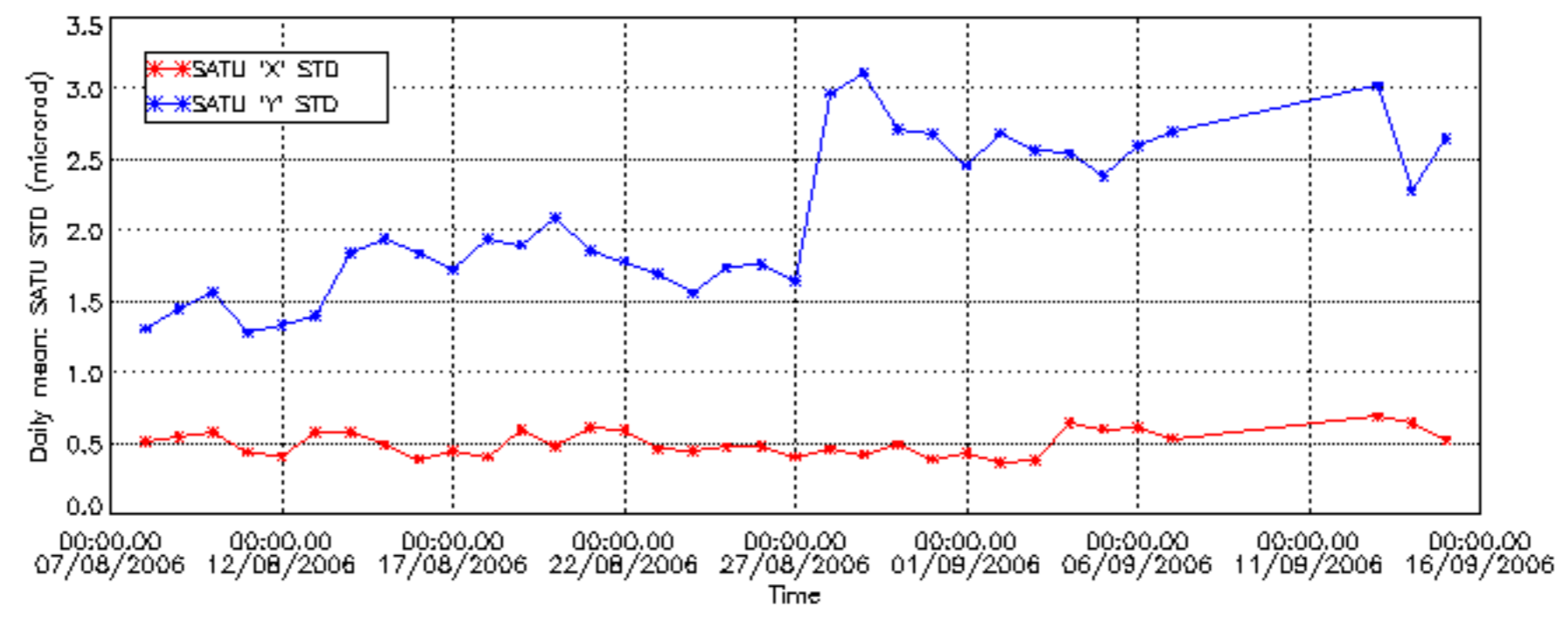


Tangent altitude at which the star is lost









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 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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 3; -662.3; 01-SEP-2006 03:16:14; Dark ; 47.5; 1; 9Alp CMA ; -1.44; 11000;occ; 95; 0;23547
 4; -496.7; 01-SEP-2006 03:19:00; Dark ; 41.5; 23; 21Eps CMA ; 1.50; 26000;occ; 83; 0;23547
 5; -401.6; 01-SEP-2006 03:20:35; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;23547
 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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 6; -277.5; 01-SEP-2006 05:03:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23548
 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
 16; 2488.2; 01-SEP-2006 05:49:21; Bright; 36.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 72; 0;23549
 17; 2601.0; 01-SEP-2006 05:51:14; Bright; 37.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 75; 0;23549
 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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3; -397.2; 01-SEP-2006 21:47:15; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 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
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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
17; 3434.8; 01-SEP-2006 22:51:07; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;23559
18; 4454.3; 01-SEP-2006 23:08:06; Bright; 48.5; 24; 66Alp Gem ; 1.58; 10200;occ; 97; 0;23559
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5; -86.1; 01-SEP-2006 23:33:02; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0;23559
6; 533.8; 01-SEP-2006 23:43:22; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;23560
7; 611.4; 01-SEP-2006 23:44:39; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;23560
8; 1087.6; 01-SEP-2006 23:52:35; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 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
13; 2075.5; 02-SEP-2006 00:09:03; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;23560
14; 2488.8; 02-SEP-2006 00:15:57; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;23560
15; 2679.1; 02-SEP-2006 00:19:07; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;23560
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
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4; -495.7; 01-SEP-2006 06:40:13; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;23549
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8; 528.4; 01-SEP-2006 06:57:17; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;23550
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10; 1085.3; 01-SEP-2006 07:06:34; Dark ; 40.0; 31; Alp Gru ; 1.73; 15200;occ; 80; 0;23550
11; 1330.2; 01-SEP-2006 07:10:39; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;23550
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8	-2054.6	24-SEP-2006	09:12:26	Bright	34.0	82	48Bet UMA	2.37	10600	occ	68	0	23880
9	-1865.5	24-SEP-2006	09:15:35	Bright	34.0	174	52Psi UMA	3.00	4400	occ	68	0	23880
10	-1466.1	24-SEP-2006	09:22:14	Bright	32.5	166	17Eps Leo	2.98	6000	occ	65	0	23880
11	-325.6	24-SEP-2006	09:41:14	Dark	39.5	65	Lam Vel	2.20	4400	occ	79	0	23880
12	-238.3	24-SEP-2006	09:42:42	Dark	59.5	0		0.00	0	occ	119	0	23880
13	-127.1	24-SEP-2006	09:44:33	Dark	37.0	46	Del Vel	1.95	10600	occ	74	0	23880
14	-32.7	24-SEP-2006	09:46:07	Dark	37.0	41	Eps Car	1.86	4100	occ	74	0	23880
15	594.1	24-SEP-2006	09:56:34	Dark	34.0	135	Bet Hyi	2.82	5800	occ	68	0	23881
16	692.8	24-SEP-2006	09:58:13	Dark	39.5	143	Alp Hyi	2.86	7200	occ	79	0	23881
17	780.1	24-SEP-2006	09:59:40	Dark	44.0	9	Alp Eri	0.45	24000	occ	88	0	23881
18	1128.9	24-SEP-2006	10:05:29	Dark	43.0	63	Bet Gru	2.15	2800	occ	86	0	23881
19	1404.3	24-SEP-2006	10:10:04	Dark	42.5	18	24Alp PsA	1.17	9700	occ	85	0	23881
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2	-3867.9	24-SEP-2006	10:22:48	Bright	37.0	90	54Alp Peg	2.49	11000	occ	74	0	23881
3	-3612.3	24-SEP-2006	10:27:04	Bright	34.5	164	44Eta Peg	2.95	5400	occ	69	0	23881
4	-3051.8	24-SEP-2006	10:36:24	Bright	35.5	89	5Alp Cep	2.45	8000	occ	71	0	23881
5	-2605.5	24-SEP-2006	10:43:50	Bright	35.5	49	1Alp UMi	1.99	6300	occ	71	0	23881
6	-2511.5	24-SEP-2006	10:45:24	Bright	36.5	60	7Bet UMi	2.08	3950	occ	73	0	23881
7	-2142.8	24-SEP-2006	10:51:33	Bright	37.0	36	50Alp UMA	1.80	6300	occ	74	0	23881
8	-2054.3	24-SEP-2006	10:53:02	Bright	33.5	82	48Bet UMA	2.37	10600	occ	67	0	23881
9	-1865.3	24-SEP-2006	10:56:11	Bright	32.5	174	52Psi UMA	3.00	4400	occ	65	0	23881
10	-1466.1	24-SEP-2006	11:02:50	Bright	31.5	166	17Eps Leo	2.98	6000	occ	63	0	23881
11	-325.4	24-SEP-2006	11:21:51	Dark	42.0	65	Lam Vel	2.20	4400	occ	84	0	23881
12	-238.0	24-SEP-2006	11:23:18	Dark	59.5	0		0.00	0	occ	119	0	23881
13	-126.9	24-SEP-2006	11:25:09	Dark	37.5	46	Del Vel	1.95	10600	occ	75	0	23881
14	-32.4	24-SEP-2006	11:26:44	Dark	47.5	41	Eps Car	1.86	4100	occ	95	0	23881
15	693.2	24-SEP-2006	11:38:49	Dark	38.5	143	Alp Hyi	2.86	7200	occ	77	0	23882
16	780.6	24-SEP-2006	11:40:17	Dark	47.5	9	Alp Eri	0.45	24000	occ	95	0	23882
17	1129.1	24-SEP-2006	11:46:05	Dark	48.0	63	Bet Gru	2.15	2800	occ	96	0	23882
18	1404.5	24-SEP-2006	11:50:40	Dark	41.0	18	24Alp PsA	1.17	9700	occ	82	0	23882
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2	-3868.6	24-SEP-2006	12:03:24	Bright	37.0	90	54Alp Peg	2.49	11000	occ	74	0	23882
3	-3612.9	24-SEP-2006	12:07:39	Bright	36.0	164	44Eta Peg	2.95	5400	occ	72	0	23882
4	-3052.3	24-SEP-2006	12:17:00	Bright	50.5	89	5Alp Cep	2.45	8000	occ	101	0	23882
5	-2606.4	24-SEP-2006	12:24:26	Bright	36.5	49	1Alp UMi	1.99	6300	occ	73	0	23882
6	-2511.8	24-SEP-2006	12:26:01	Bright	53.0	60	7Bet UMi	2.08	3950	occ	106	0	23882
7	-2143.2	24-SEP-2006	12:32:09	Bright	33.0	36	50Alp UMA	1.80	6300	occ	66	0	23882
8	-2054.8	24-SEP-2006	12:33:38	Bright	35.5	82	48Bet UMA	2.37	10600	occ	71	0	23882
9	-1865.7	24-SEP-2006	12:36:47	Bright	35.0	174	52Psi UMA	3.00	4400	occ	70	0	23882
10	-1466.4	24-SEP-2006	12:43:26	Bright	31.5	166	17Eps Leo	2.98	6000	occ	63	0	23882
11	-325.6	24-SEP-2006	13:02:27	Dark	47.5	65	Lam Vel	2.20	4400	occ	95	0	23882
12	-238.3	24-SEP-2006	13:03:54	Dark	59.5	0		0.00	0	occ	119	0	23882
13	-127.2	24-SEP-2006	13:05:45	Dark	37.5	46	Del Vel	1.95	10600	occ	75	0	23882
14	-32.7	24-SEP-2006	13:07:20	Dark	47.5	41	Eps Car	1.86	4100	occ	95	0	23882
15	693.1	24-SEP-2006	13:19:26	Dark	39.5	143	Alp Hyi	2.86	7200	occ	79	0	23883
16	780.5	24-SEP-2006	13:20:53	Dark	45.5	9	Alp Eri	0.45	24000	occ	91	0	23883
17	1128.7	24-SEP-2006	13:26:41	Dark	43.0	63	Bet Gru	2.15	2800	occ	86	0	23883
18	1404.2	24-SEP-2006	13:31:17	Dark	41.5	18	24Alp PsA	1.17	9700	occ	83	0	23883
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2	-3868.7	24-SEP-2006	13:44:00	Bright	36.5	90	54Alp Peg	2.49	11000	occ	73	0	23883
3	-3612.9	24-SEP-2006	13:48:15	Bright	37.0	164	44Eta Peg	2.95	5400	occ	74	0	23883
4	-3052.2	24-SEP-2006	13:57:36	Bright	35.0	89	5Alp Cep	2.45	8000	occ	70	0	23883
5	-2606.1	24-SEP-2006	14:05:02	Bright	35.5	49	1Alp UMi	1.99	6300	occ	71	0	23883
6	-2511.3	24-SEP-2006	14:06:37	Bright	36.5	60	7Bet UMi	2.08	3950	occ	73	0	23883
7	-2143.1	24-SEP-2006	14:12:45	Bright	36.5	36	50Alp UMA	1.80	6300	occ	73	0	23883
8	-2054.4	24-SEP-2006	14:14:14	Bright	34.0	82	48Bet UMA	2.37	10600	occ	68	0	23883
9	-1865.2	24-SEP-2006	14:17:23	Bright	34.0	174	52Psi UMA	3.00	4400	occ	68	0	23883
10	-1466.0	24-SEP-2006	14:24:02	Bright	33.0	166	17Eps Leo	2.98	6000	occ	66	0	23883
11	-325.3	24-SEP-2006	14:43:03	Dark	43.5	65	Lam Vel	2.20	4400	occ	87	0	23883
12	-238.0	24-SEP-2006	14:44:30	Dark	59.5	0		0.00	0	occ	119	0	23883
13	-126.9	24-SEP-2006	14:46:21	Dark	44.0	46	Del Vel	1.95	10600	occ	88	0	23883
14	-32.4	24-SEP-2006	14:47:56	Dark	47.0	41	Eps Car	1.86	4100	occ	94	0	23883
15	693.6	24-SEP-2006	15:00:02	Dark	38.5	143	Alp Hyi	2.86	7200	occ	77	0	23884
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