

GOMOS Daily Report 02-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	04SEP2006 04:31:47
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (02SEP2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (03SEP2006 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	42
Nb of prods with errors	0

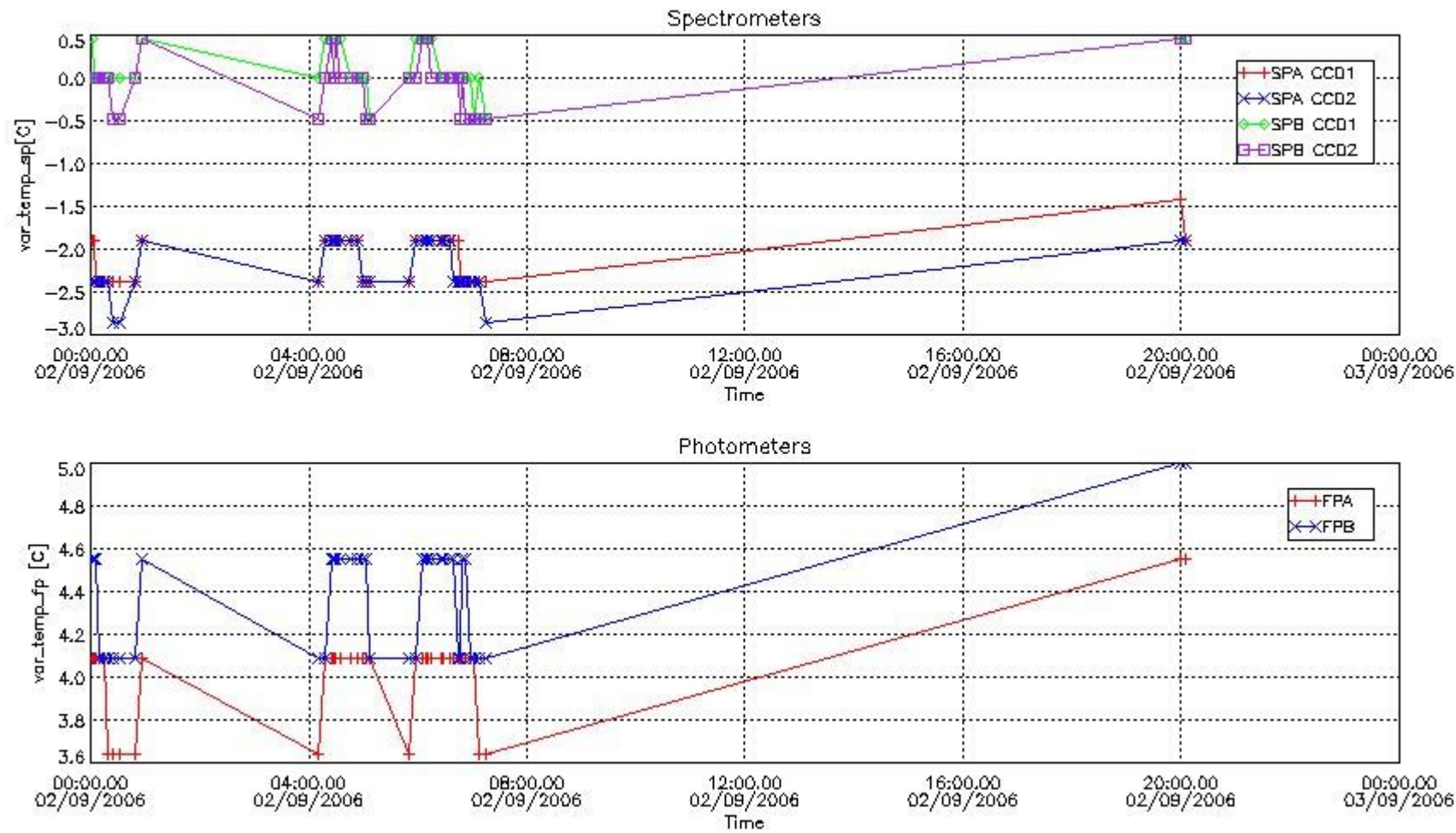
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20060902_000129_000000502050_00460_23560_1166.N1	02-SEP-2006 00:01:29	Bright	50.000	142	49Del Cap	2.8500	8900.0	100	23560	No
2	GOM_TRA_1PNPDE20060902_000437_000000372050_00460_23560_1167.N1	02-SEP-2006 00:04:37	Bright	37.000	154	22Bet Aqr	2.8990	5700.0	74	23560	No
3	GOM_TRA_1PNPDE20060902_000603_000000402050_00460_23560_1168.N1	02-SEP-2006 00:06:03	Bright	40.000	162	34Alp Aqr	2.9440	5350.0	80	23560	No
4	GOM_TRA_1PNPDE20060902_000903_000000382050_00460_23560_1169.N1	02-SEP-2006 00:09:03	Bright	37.500	61	8Eps Peg	2.1000	3900.0	75	23560	No
5	GOM_TRA_1PNPDE20060902_001557_000000372050_00460_23560_1170.N1	02-SEP-2006 00:15:57	Bright	36.500	92	53Eps Cyg	2.5000	4500.0	73	23560	No
6	GOM_TRA_1PNPDE20060902_001907_000000362050_00460_23560_1171.N1	02-SEP-2006 00:19:07	Bright	36.000	19	50Alp Cyg	1.2460	10500.	72	23560	No
7	GOM_TRA_1PNPDE20060902_002403_000000342050_00460_23560_1172.N1	02-SEP-2006 00:24:03	Bright	34.000	89	5Alp Cep	2.4510	8000.0	68	23560	No
8	GOM_TRA_1PNPDE20060902_003143_000000332050_00460_23560_1173.N1	02-SEP-2006 00:31:43	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	23560	No
9	GOM_TRA_1PNPDE20060902_004842_000000552050_00460_23560_1174.N1	02-SEP-2006 00:48:42	Bright	55.000	24	66Alp Gem	1.5800	10200.	110	23560	No
10	GOM_TRA_1PNPDE20060902_005627_000000512050_00460_23560_1175.N1	02-SEP-2006 00:56:27	Twilight	50.500	8	10Alp CMi	0.40000	6500.0	101	23560	No
11	GOM_TRA_1PNPDE20060902_040955_000000372050_00462_23562_1173.N1	02-SEP-2006 04:09:55	Bright	37.000	24	66Alp Gem	1.5800	10200.	74	23562	No
12	GOM_TRA_1PNPDE20060902_041739_000000502050_00462_23562_1165.N1	02-SEP-2006 04:17:39	Twilight	49.500	8	10Alp CMi	0.40000	6500.0	99	23562	No
13	GOM_TRA_1PNPDE20060902_042523_000000542050_00462_23562_1175.N1	02-SEP-2006 04:25:23	Dark	54.000	1	9Alp CMa	-1.4400	11000.	108	23562	No
14	GOM_TRA_1PNPDE20060902_042807_000000442050_00462_23562_1176.N1	02-SEP-2006 04:28:07	Dark	43.500	23	21Eps CMa	1.5020	26000.	87	23562	No
15	GOM_TRA_1PNPDE20060902_042940_000000432050_00462_23562_1177.N1	02-SEP-2006 04:29:40	Dark	43.000	117	Pi Pup	2.7060	3800.0	86	23562	No
16	GOM_TRA_1PNPDE20060902_043451_000000442050_00462_23562_1169.N1	02-SEP-2006 04:34:51	Dark	43.500	2	Alp Car	-0.73600	7000.0	87	23562	No
17	GOM_TRA_1PNPDE20060902_044511_000000402050_00463_23563_1179.N1	02-SEP-2006 04:45:11	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	23563	No
18	GOM_TRA_1PNPDE20060902_044629_000000452050_00463_23563_1180.N1	02-SEP-2006 04:46:29	Dark	44.500	9	Alp Eri	0.45300	24000.	89	23563	No
19	GOM_TRA_1PNPDE20060902_045424_000000422050_00463_23563_1181.N1	02-SEP-2006 04:54:24	Straylight	42.000	31	Alp Gru	1.7340	15200.	84	23563	No
20	GOM_TRA_1PNPDE20060902_045829_000000472050_00463_23563_1182.N1	02-SEP-2006 04:58:29	Straylight	47.000	18	24Alp PsA	1.1660	9700.0	94	23563	No
21	GOM_TRA_1PNPDE20060902_050317_000000502050_00463_23563_1183.N1	02-SEP-2006 05:03:17	Bright	50.000	142	49Del Cap	2.8500	8900.0	100	23563	No
22	GOM_TRA_1PNPDE20060902_050625_000000382050_00463_23563_1184.N1	02-SEP-2006 05:06:25	Bright	37.500	154	22Bet Aqr	2.8990	5700.0	75	23563	No
23	GOM_TRA_1PNPDE20060902_055031_000000472050_00463_23563_1161.N1	02-SEP-2006 05:50:31	Bright	46.500	24	66Alp Gem	1.5800	10200.	93	23563	No
24	GOM_TRA_1PNPDE20060902_055816_000000542050_00463_23563_1162.N1	02-SEP-2006 05:58:16	Twilight	53.500	8	10Alp CMi	0.40000	6500.0	107	23563	No
25	GOM_TRA_1PNPDE20060902_060559_000000482050_00463_23563_1163.N1	02-SEP-2006 06:05:59	Dark	47.500	1	9Alp CMa	-1.4400	11000.	95	23563	No
26	GOM_TRA_1PNPDE20060902_060843_000000452050_00463_23563_1164.N1	02-SEP-2006 06:08:43	Dark	44.500	23	21Eps CMa	1.5020	26000.	89	23563	No
27	GOM_TRA_1PNPDE20060902_061016_000000422050_00463_23563_1165.N1	02-SEP-2006 06:10:16	Dark	41.500	117	Pi Pup	2.7060	3800.0	83	23563	No
28	GOM_TRA_1PNPDE20060902_061527_000000522050_00463_23563_1166.N1	02-SEP-2006 06:15:27	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	23563	No
29	GOM_TRA_1PNPDE20060902_062548_000000402050_00464_23564_1167.N1	02-SEP-2006 06:25:48	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	23564	No
30	GOM_TRA_1PNPDE20060902_062705_000000432050_00464_23564_1168.N1	02-SEP-2006 06:27:05	Dark	43.000	9	Alp Eri	0.45300	24000.	86	23564	No
31	GOM_TRA_1PNPDE20060902_063500_000000382050_00464_23564_1169.N1	02-SEP-2006 06:35:00	Straylight	37.500	31	Alp Gru	1.7340	15200.	75	23564	No
32	GOM_TRA_1PNPDE20060902_063905_000000462050_00464_23564_1170.N1	02-SEP-2006 06:39:05	Straylight	46.000	18	24Alp PsA	1.1660	9700.0	92	23564	No
33	GOM_TRA_1PNPDE20060902_064353_000000402050_00464_23564_1171.N1	02-SEP-2006 06:43:53	Bright	40.000	142	49Del Cap	2.8500	8900.0	80	23564	No
34	GOM_TRA_1PNPDE20060902_064701_000000382050_00464_23564_1172.N1	02-SEP-2006 06:47:01	Bright	38.000	154	22Bet Aqr	2.8990	5700.0	76	23564	No
35	GOM_TRA_1PNPDE20060902_064827_000000392050_00464_23564_1173.N1	02-SEP-2006 06:48:27	Bright	39.000	162	34Alp Aqr	2.9440	5350.0	78	23564	No
36	GOM_TRA_1PNPDE20060902_065127_000000382050_00464_23564_1174.N1	02-SEP-2006 06:51:27	Bright	38.000	61	8Eps Peg	2.1000	3900.0	76	23564	No
37	GOM_TRA_1PNPDE20060902_065821_000000372050_00464_23564_1175.N1	02-SEP-2006 06:58:21	Bright	36.500	92	53Eps Cyg	2.5000	4500.0	73	23564	No
38	GOM_TRA_1PNPDE20060902_070131_000000382050_00464_23564_1176.N1	02-SEP-2006 07:01:31	Bright	38.000	19	50Alp Cyg	1.2460	10500.	76	23564	No
39	GOM_TRA_1PNPDE20060902_070626_000000372050_00464_23564_1177.N1	02-SEP-2006 07:06:26	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	23564	No
40	GOM_TRA_1PNPDE20060902_071406_000000352050_00464_23564_1178.N1	02-SEP-2006 07:14:06	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	23564	No
41	GOM_TRA_1PNPDE20060902_195949_000000442050_00472_23572_1165.N1	02-SEP-2006 19:59:49	Straylight	43.500	31	Alp Gru	1.7340	15200.	87	23572	No
42	GOM_TRA_1PNPDE20060902_200355_000000472050_00472_23572_1175.N1	02-SEP-2006 20:03:55	Straylight	47.000	18	24Alp PsA	1.1660	9700.0	94	23572	No

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



4. Overview of dark signal processing per product

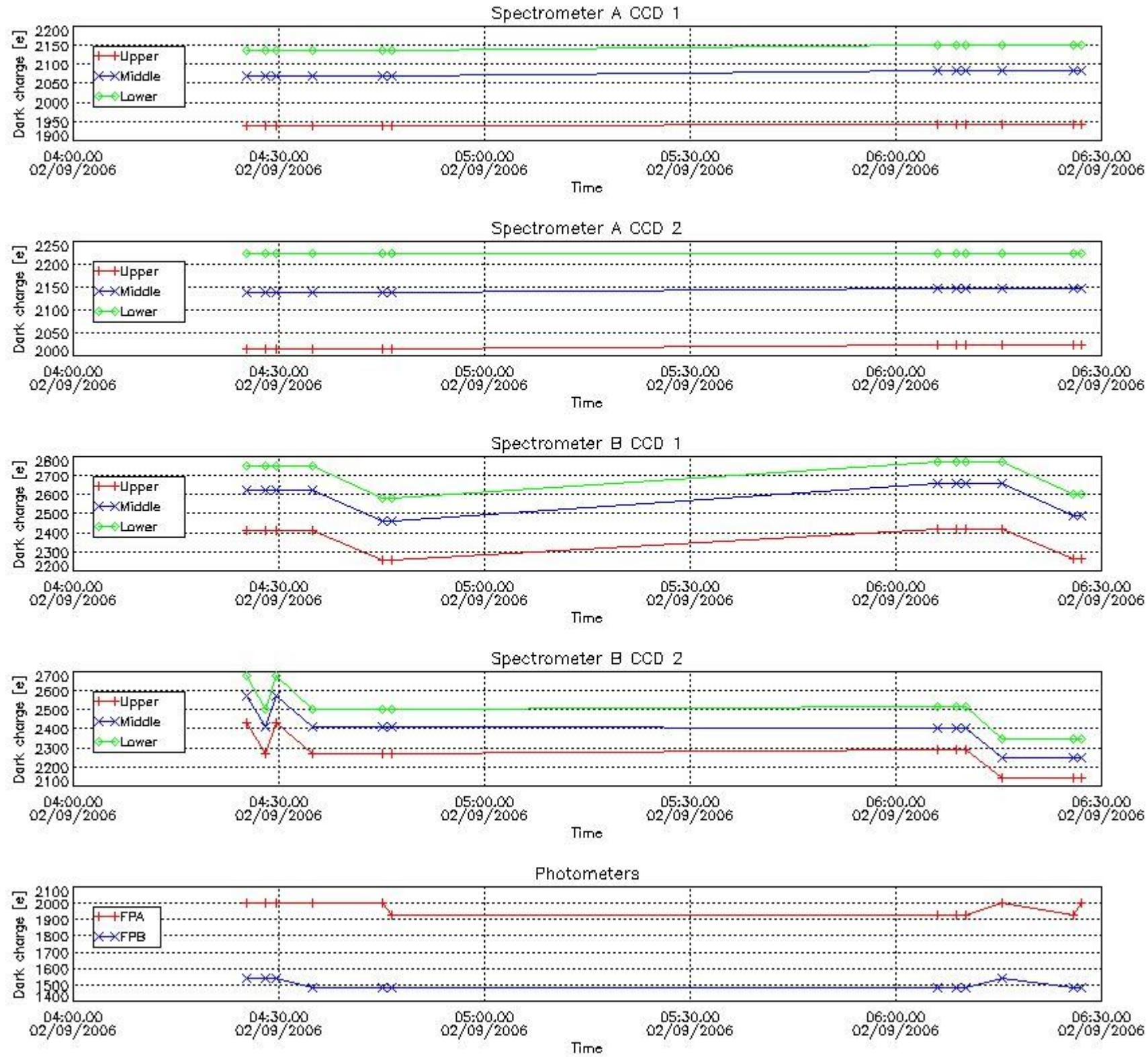
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20060902_195949_000000442050_00472_23572_1165.N1	DC map used
GOM_TRA_1PNPDE20060902_200355_000000472050_00472_23572_1175.N1	DC map used

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



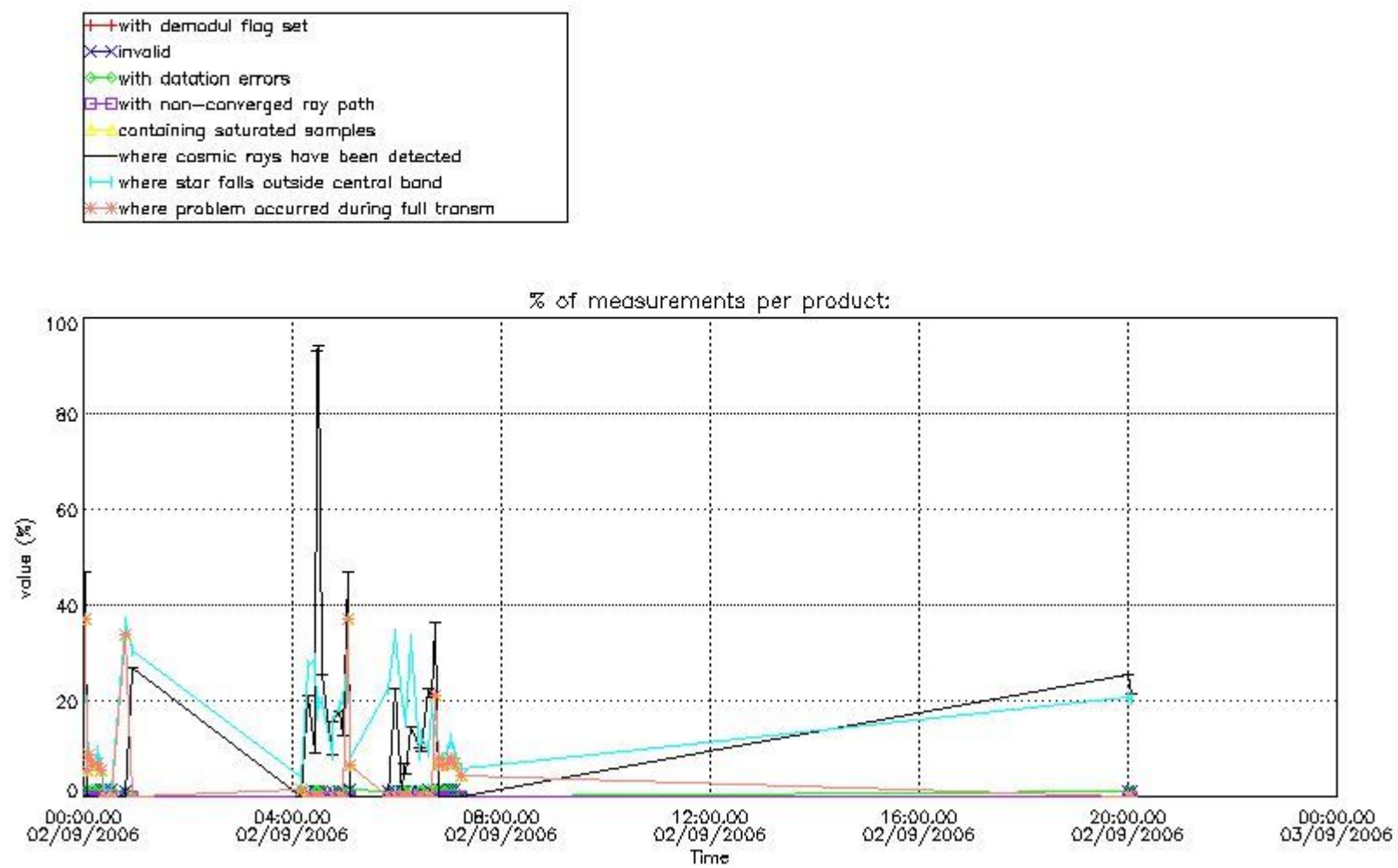
5. Demodulation flag and quality information monitoring

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.

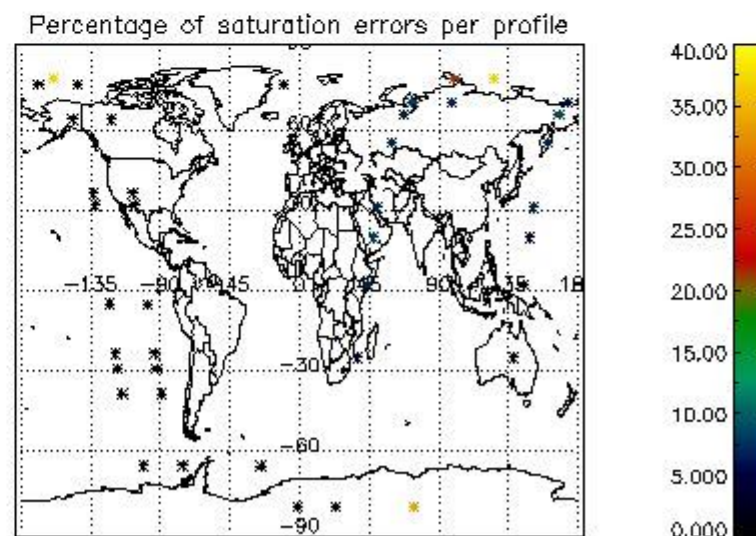
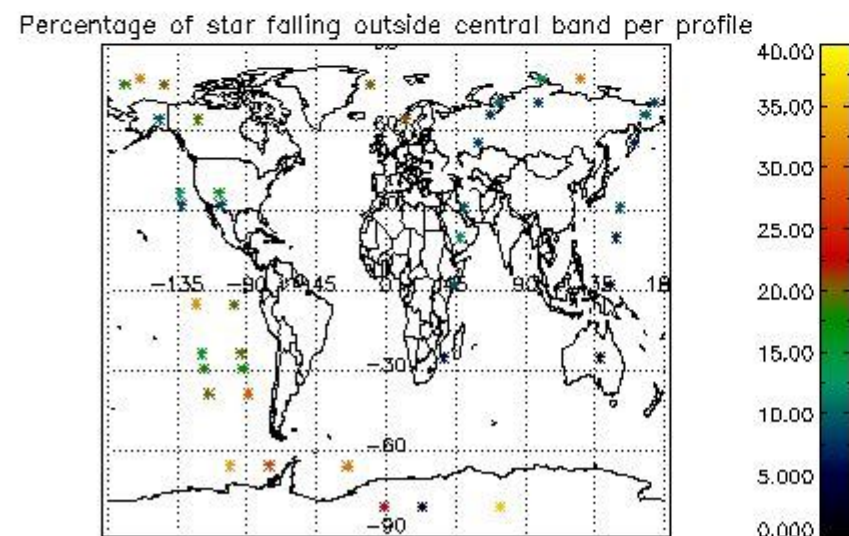
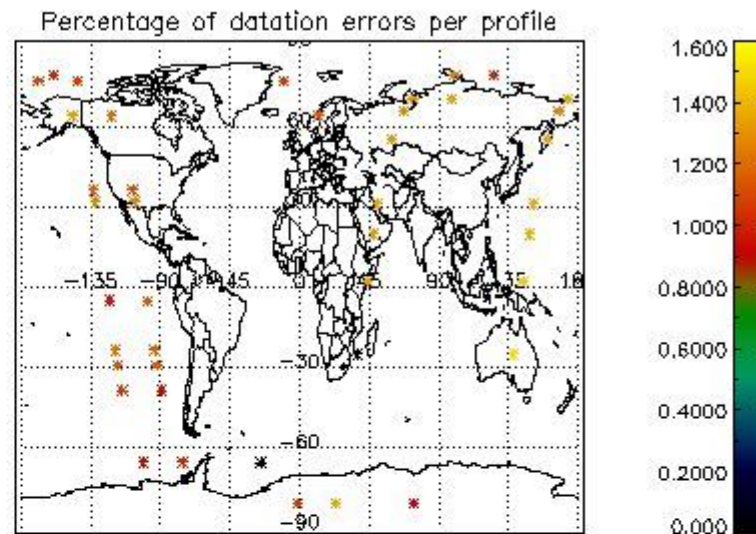
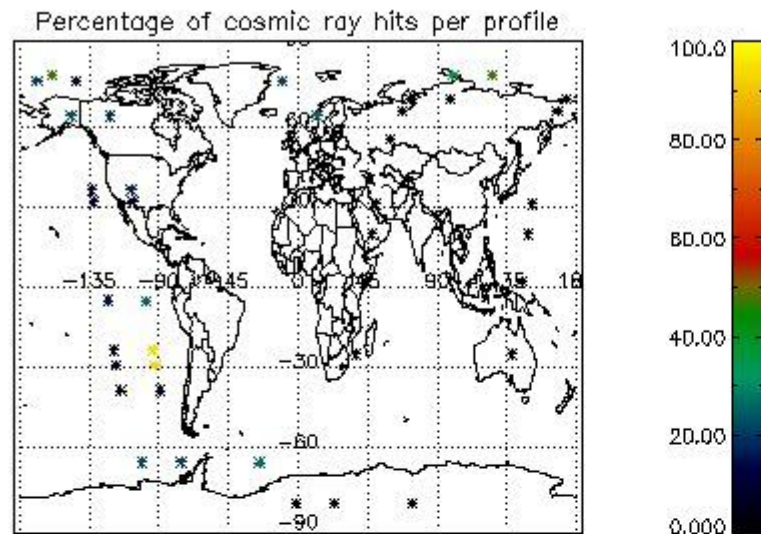
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	11.9048 %
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)



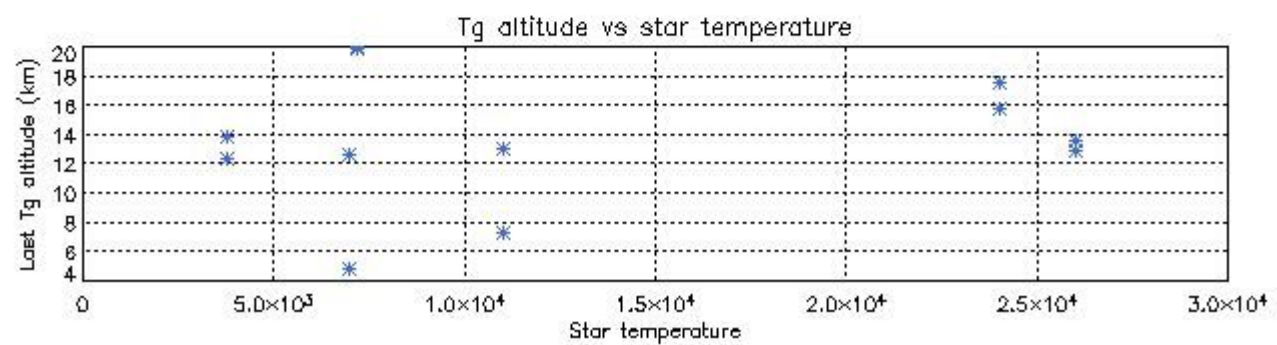
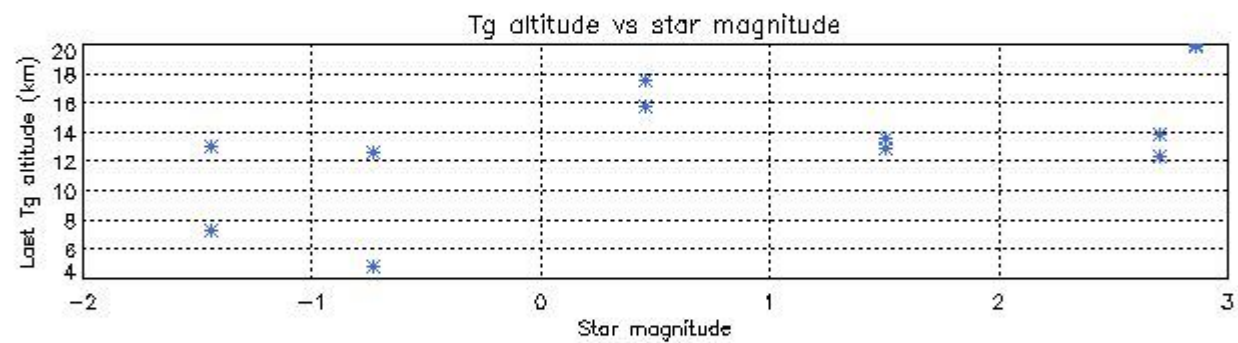
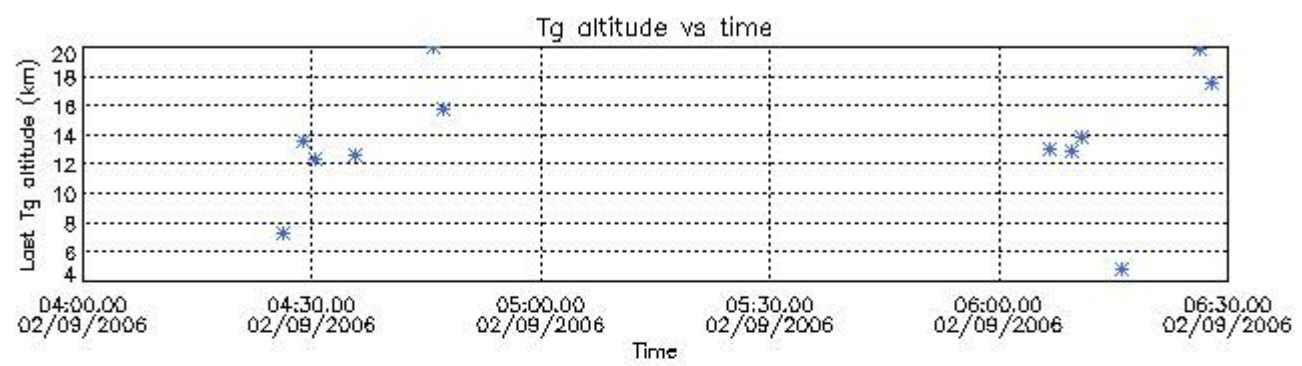
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.621	17.409	6.4015
St. deviation:	4.4808	6.0393	1.2525
Maximum:	19.959	27.529	7.4657
Minimum:	4.7760	4.3285	5.0213
Number of data:	12.000	21.000	3.0000

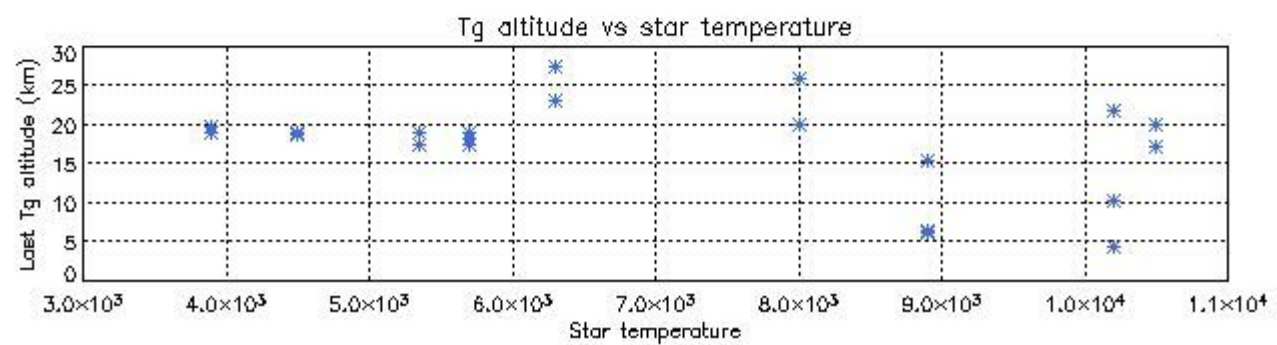
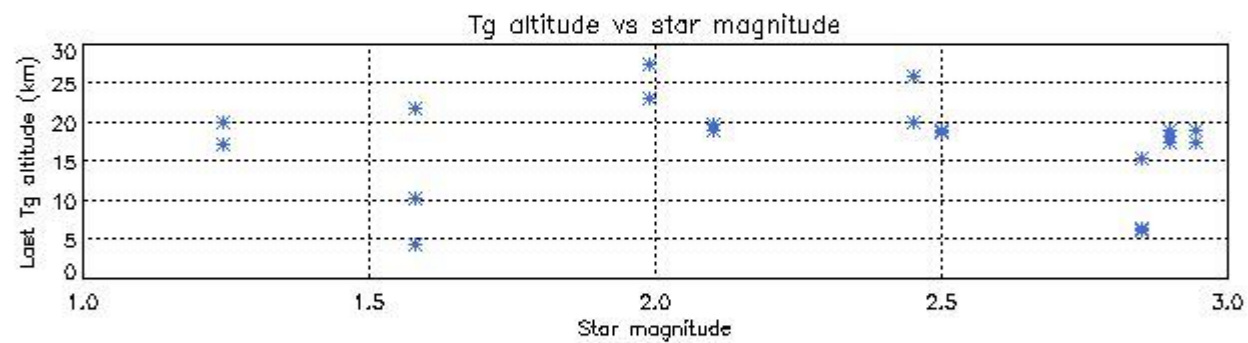
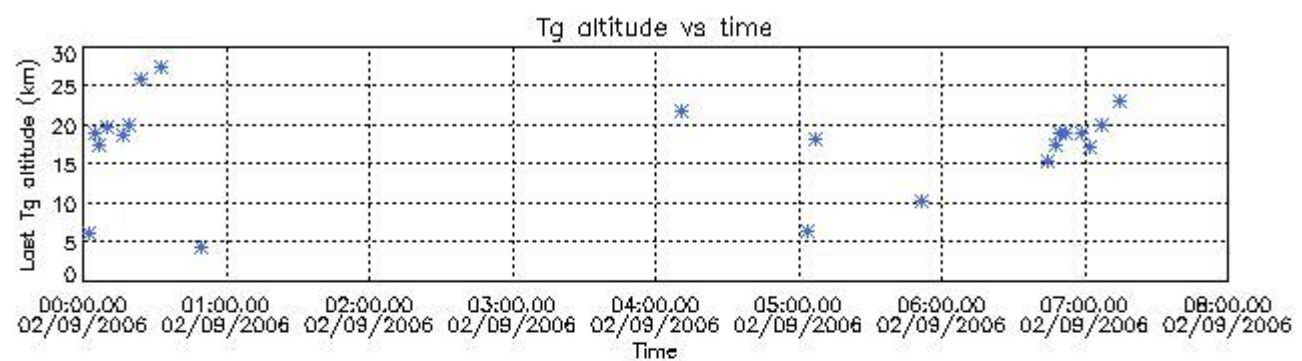
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



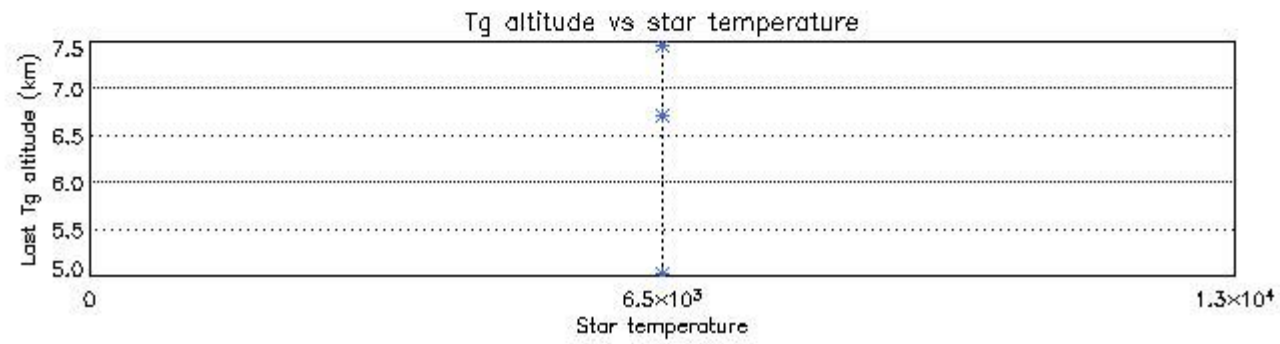
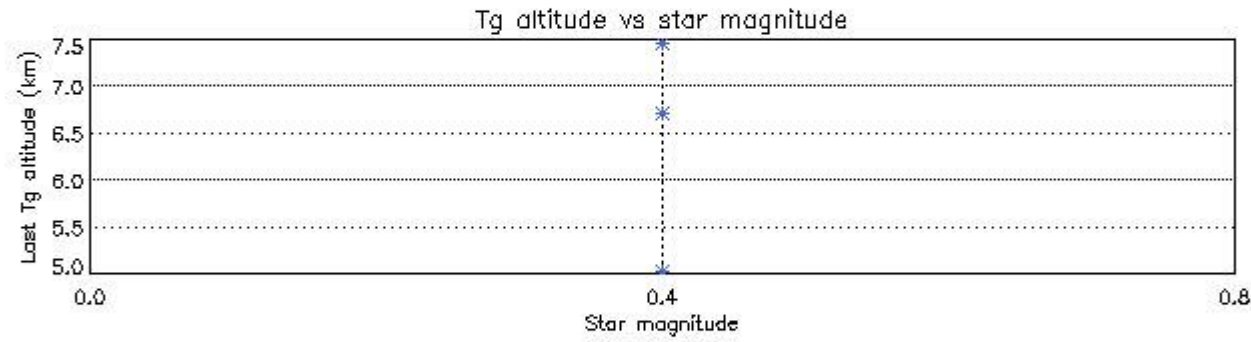
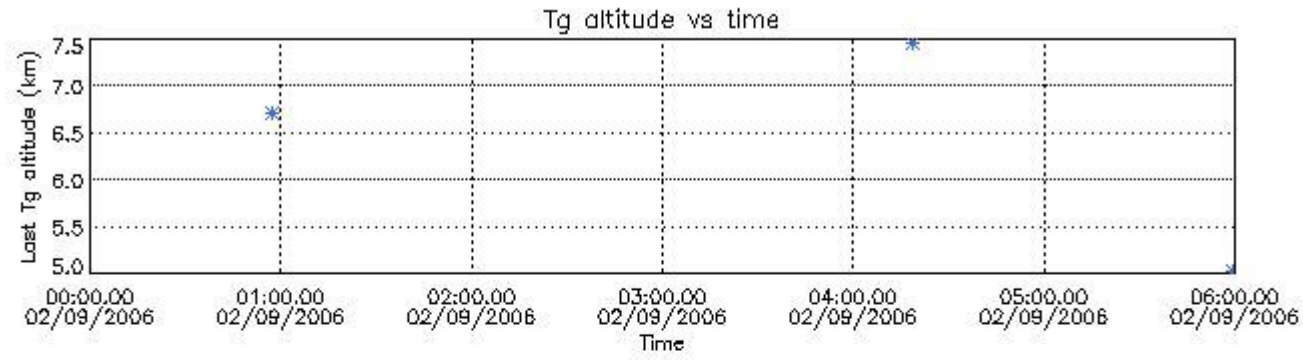
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

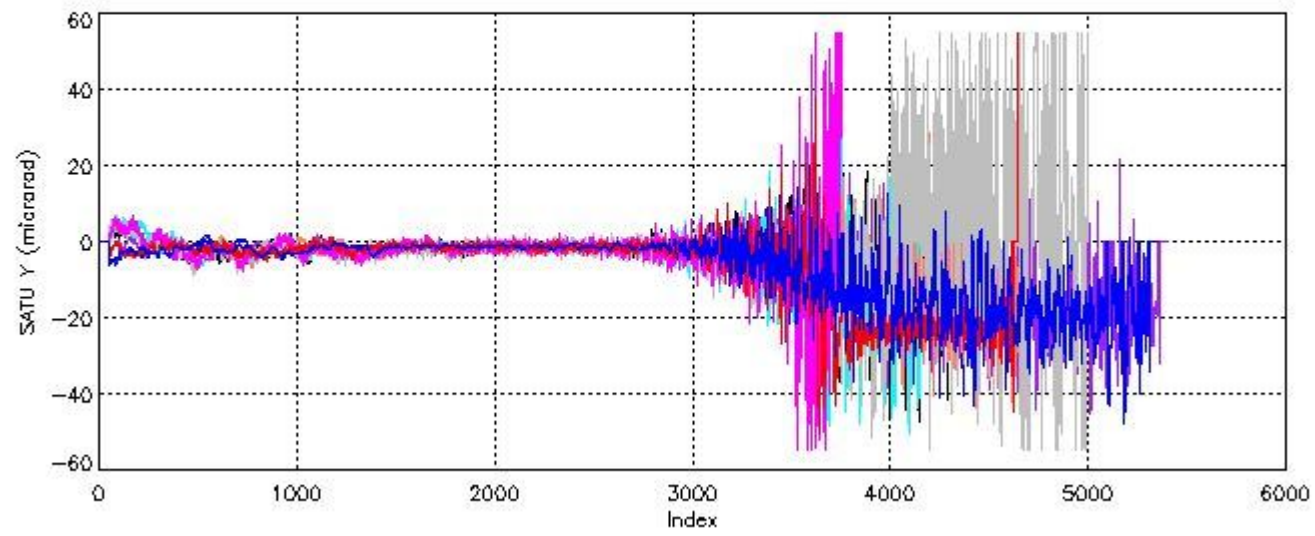
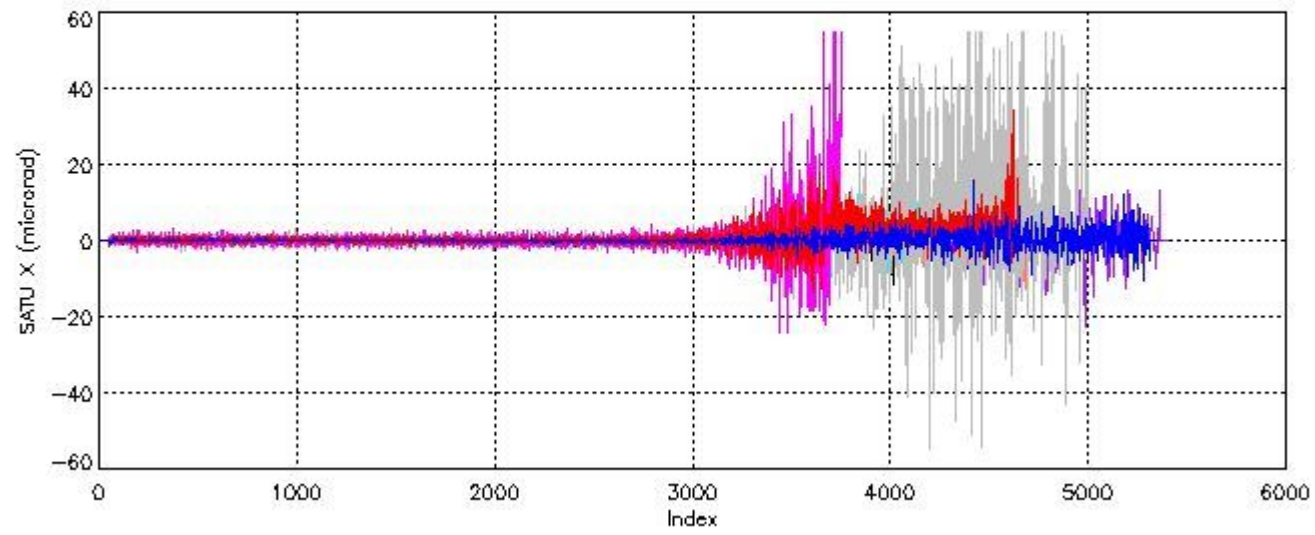


7. Star Acquisition and Tracking Unit (SATU)

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.

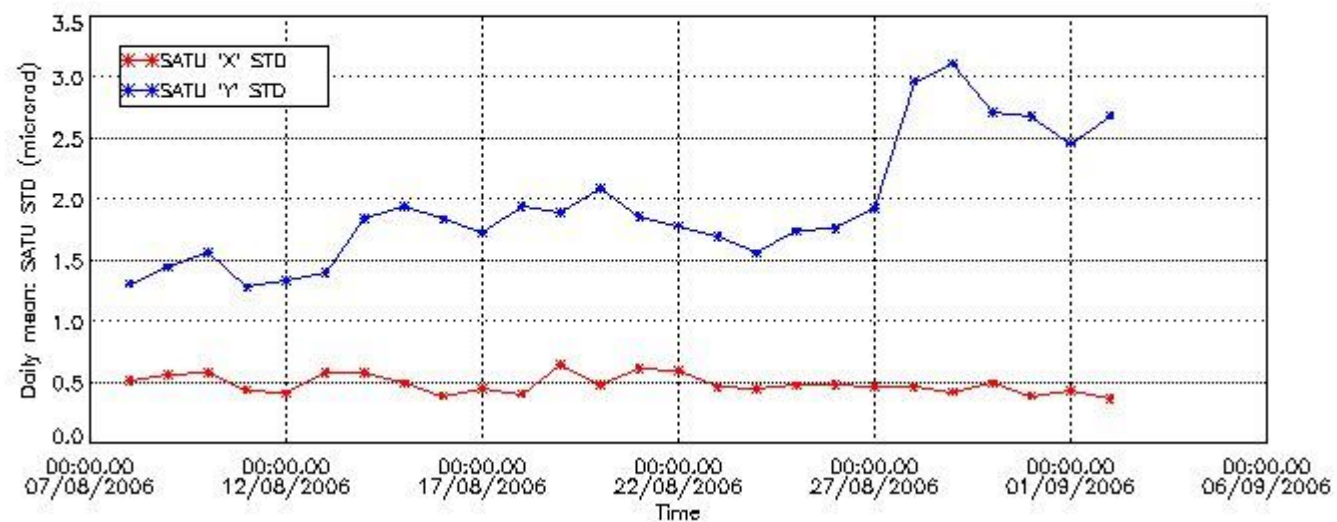
7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.092458	-0.97738	0.11710	-1.2483
St. deviation:	0.35968	2.6844	0.65003	2.5613
Maximum:	3.9000	6.7000	3.5000	7.0000
Minimum:	-0.40000	-7.3000	-1.7000	-5.9000

Number of data:	11400.	11400.	17550.	17550.
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7.2.2 Trend of daily SATU NEA St. deviation during the last two months (dark limb)

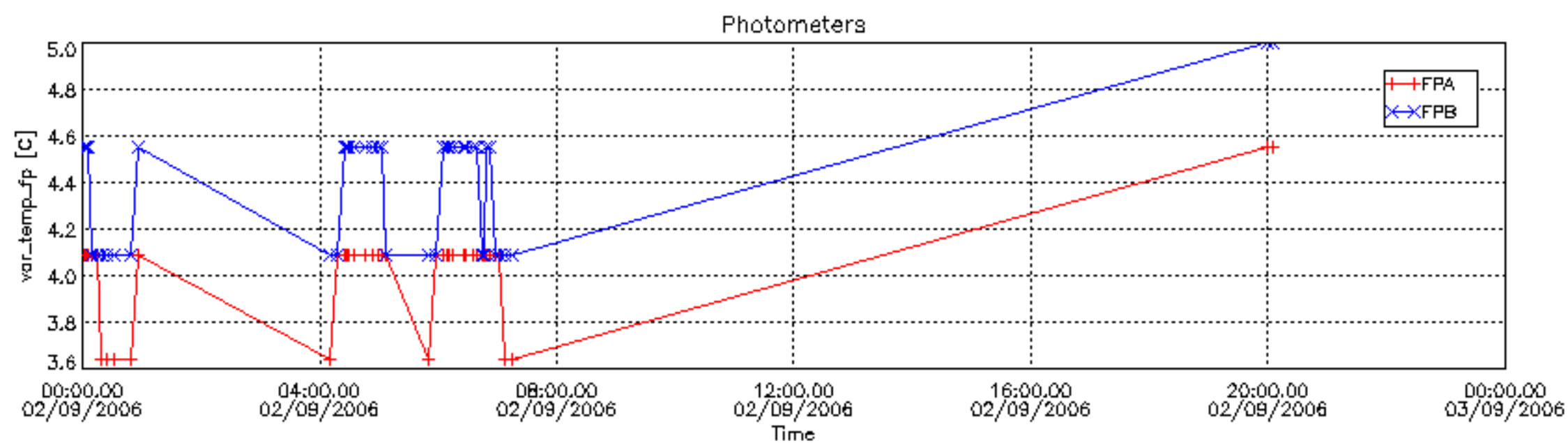
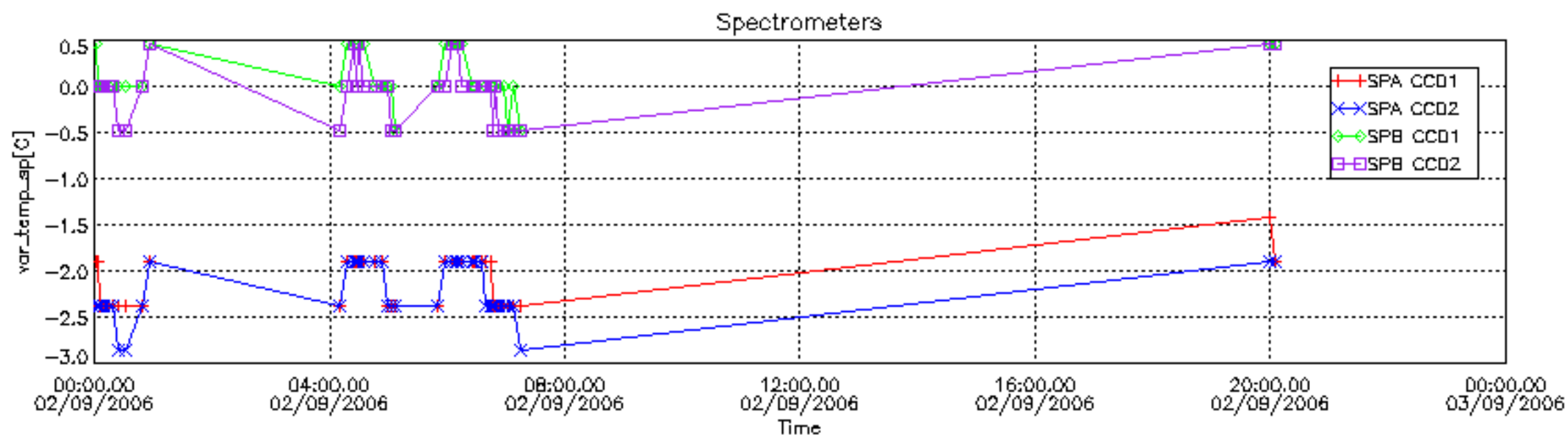
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

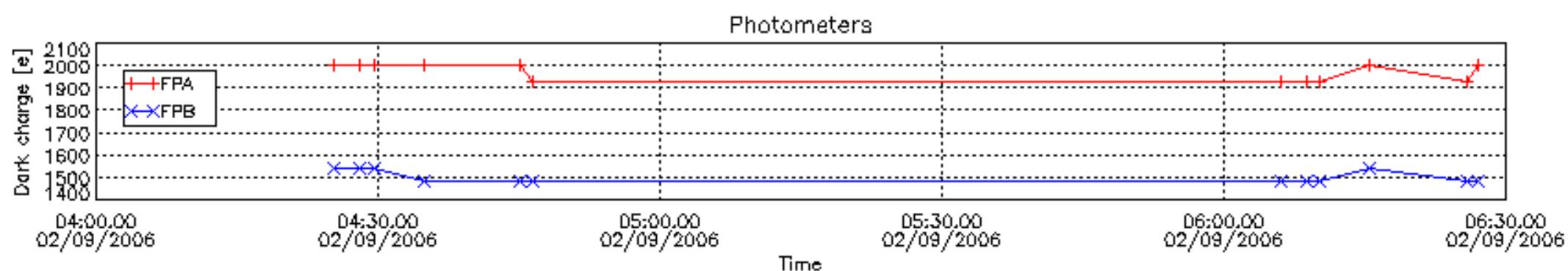
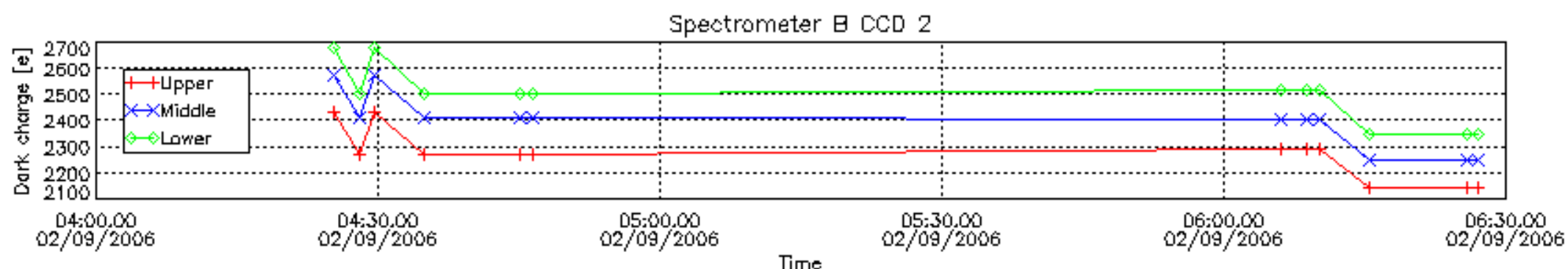
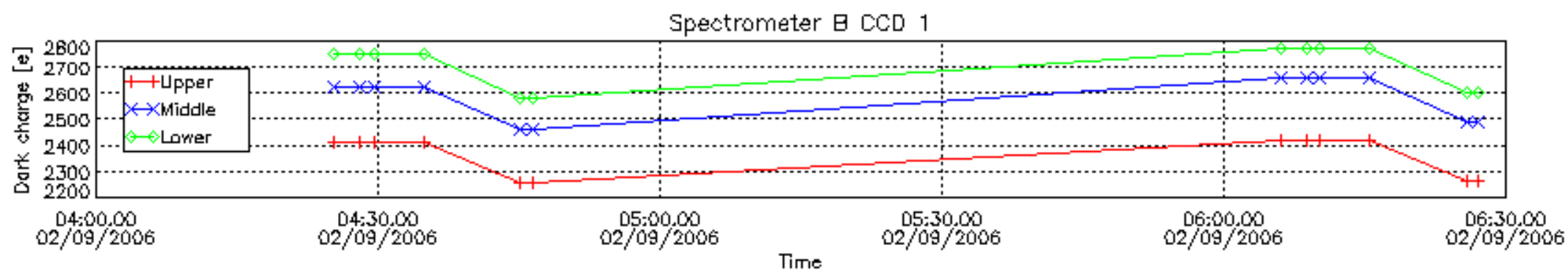
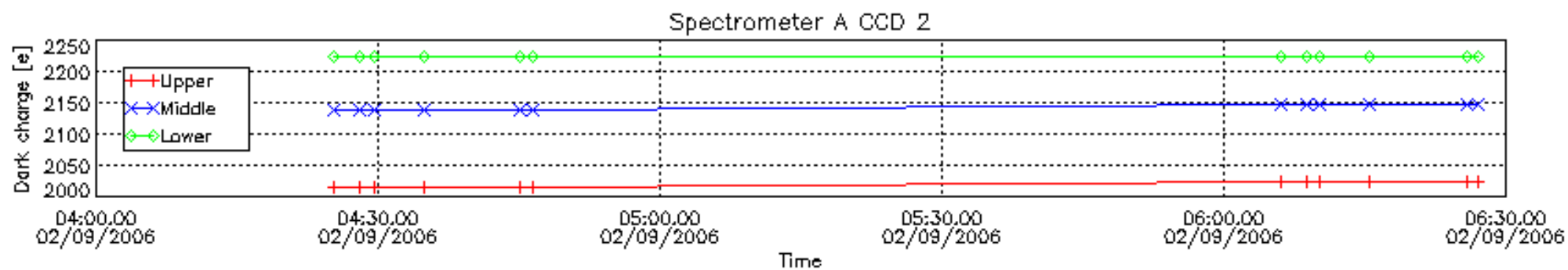
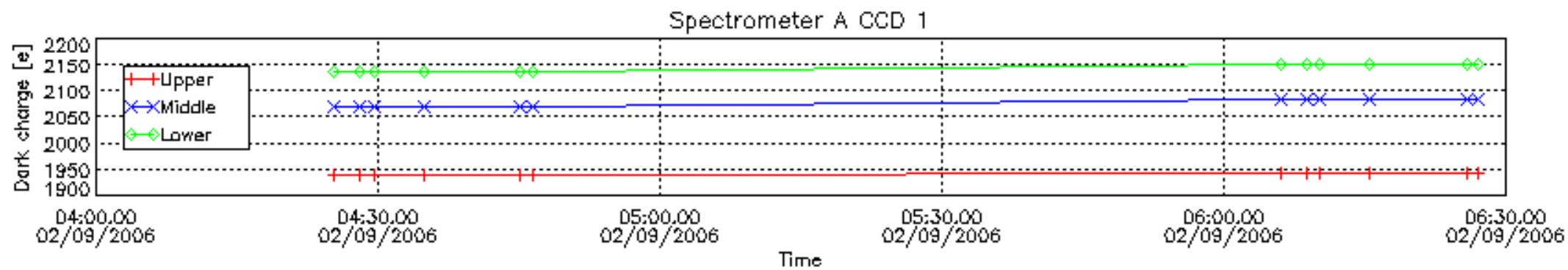


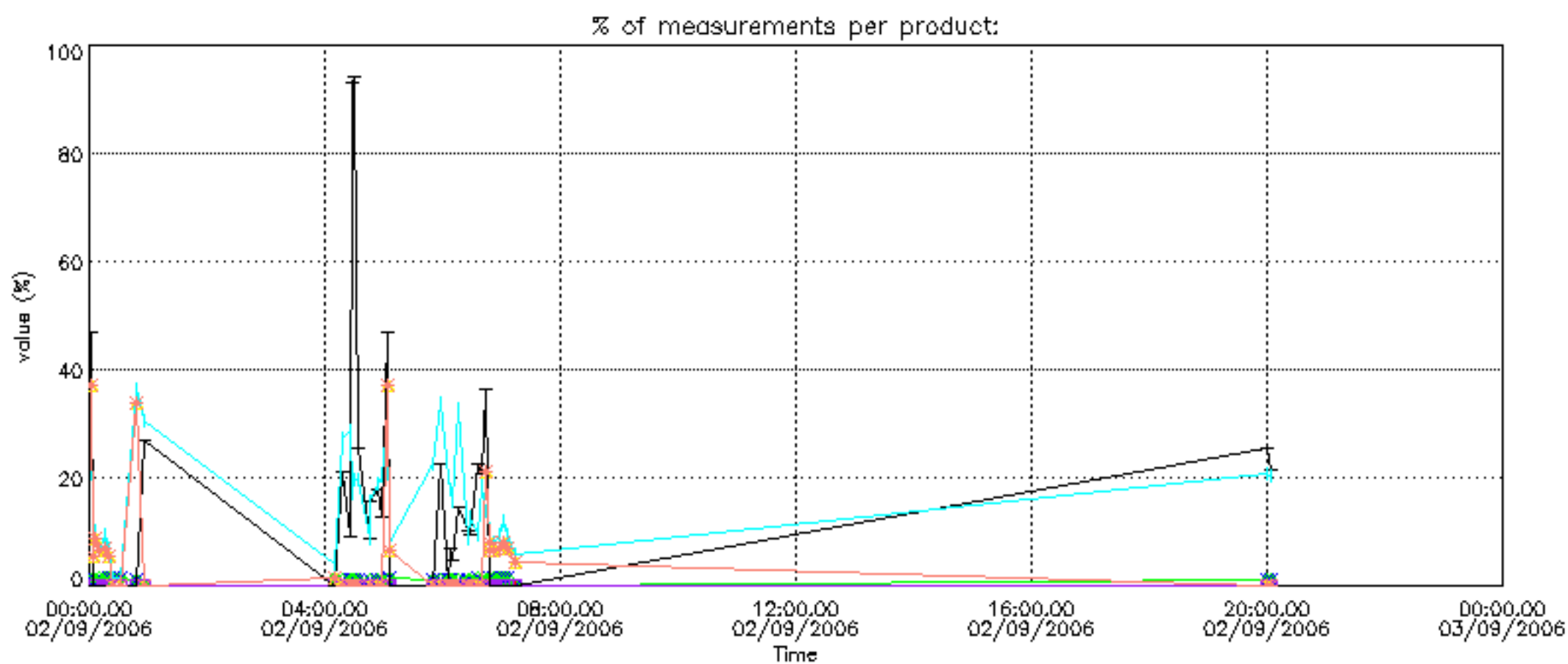
8. Auxiliary Data Files used for the production reported in section 2.2

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.

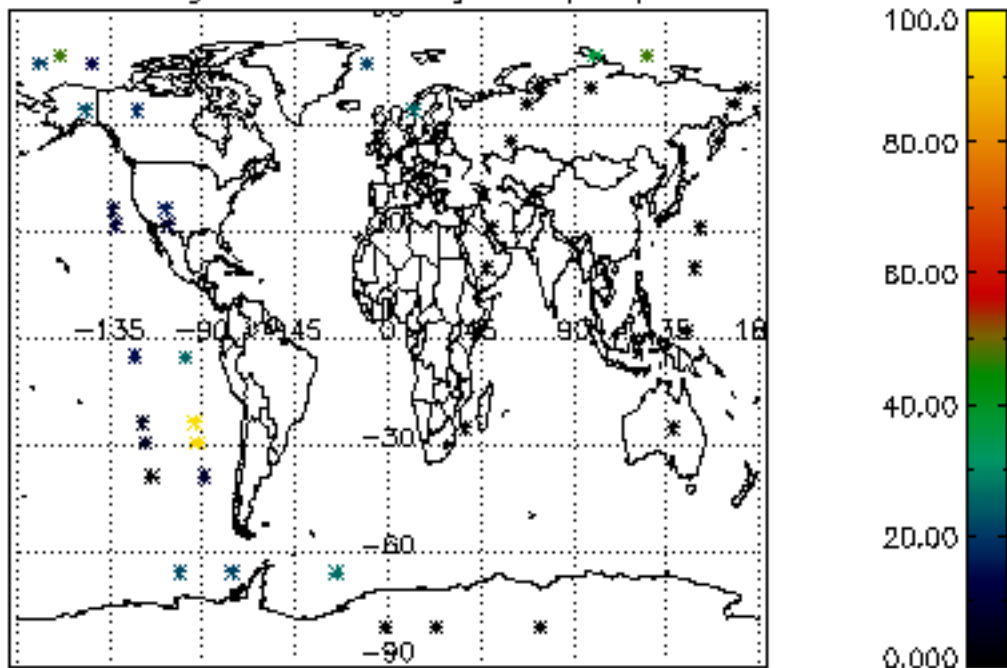
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	02-SEP-2006 00:01:29
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060825_091604_20060823_000000_20100101_000000	1	02-SEP-2006 00:01:29
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	02-SEP-2006 00:01:29
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	02-SEP-2006 00:01:29
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	02-SEP-2006 00:01:29
ECMWF_FILE	AUX_ECF_AXNECM20060901_061936_20060901_210000_20060902_090000	1	02-SEP-2006 00:01:29
ECMWF_FILE	AUX_ECA_AXNECM20060902_180831_20060902_030000_20060902_150000	11	02-SEP-2006 04:09:55
ECMWF_FILE	AUX_ECA_AXNECM20060902_060919_20060901_210000_20060902_090000	12	02-SEP-2006 04:17:39
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ECMWF_FILE	AUX_ECF_AXNECM20060902_061911_20060902_150000_20060903_030000	41	02-SEP-2006 19:59:49
ECMWF_FILE	AUX_ECA_AXNECM20060903_060829_20060902_150000_20060903_030000	42	02-SEP-2006 20:03:55
OPTIONAL_ECMWF_FILE	MISSING	1	02-SEP-2006 00:01:29
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ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060902_035335_000057382050_00462_23562_0475.N1	11	02-SEP-2006 04:09:55
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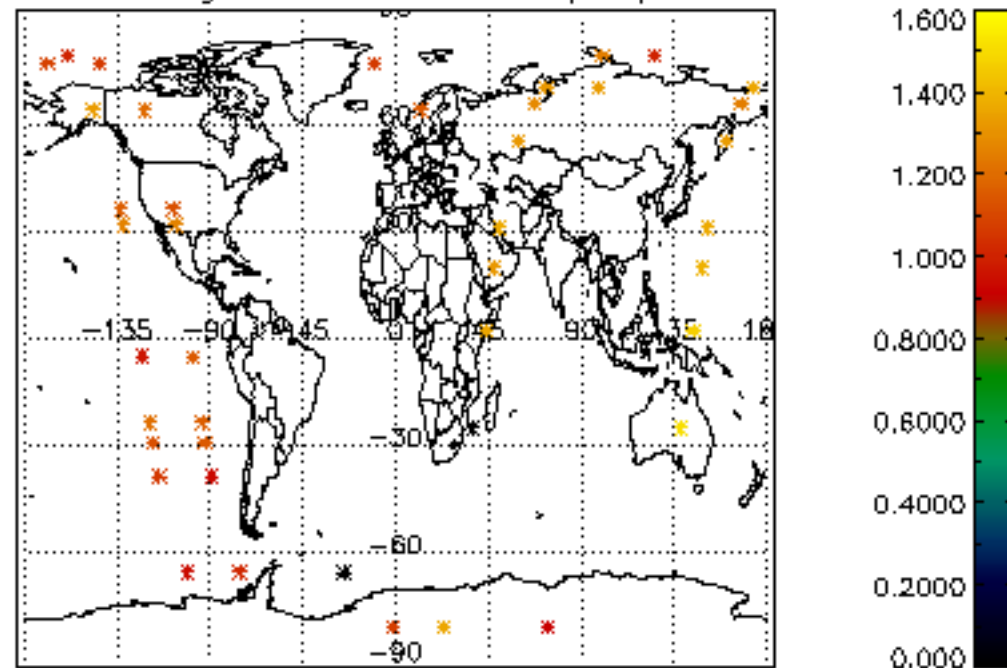




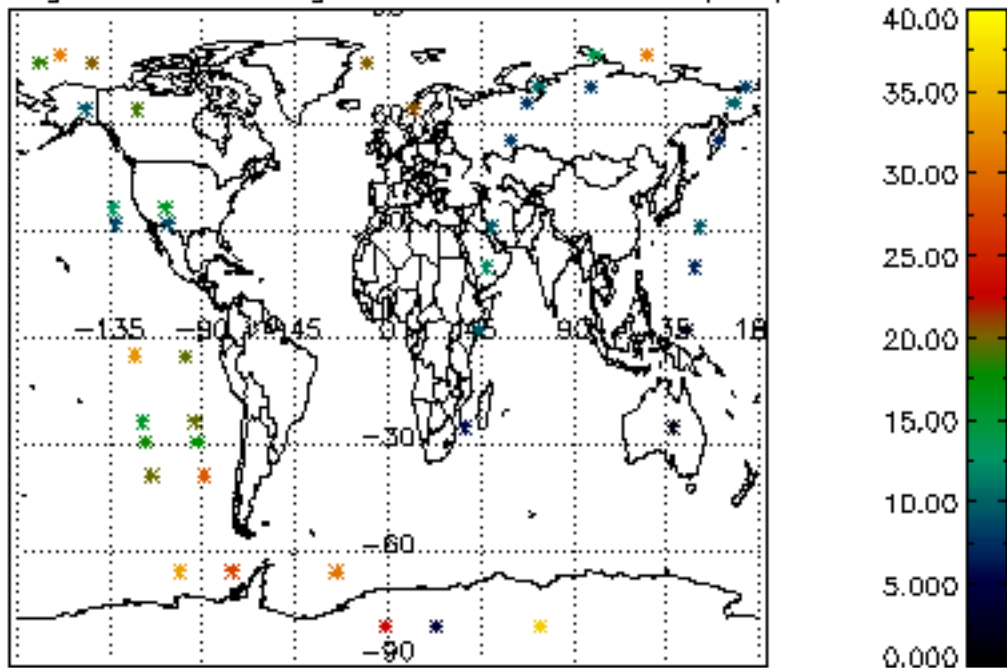
Percentage of cosmic ray hits per profile



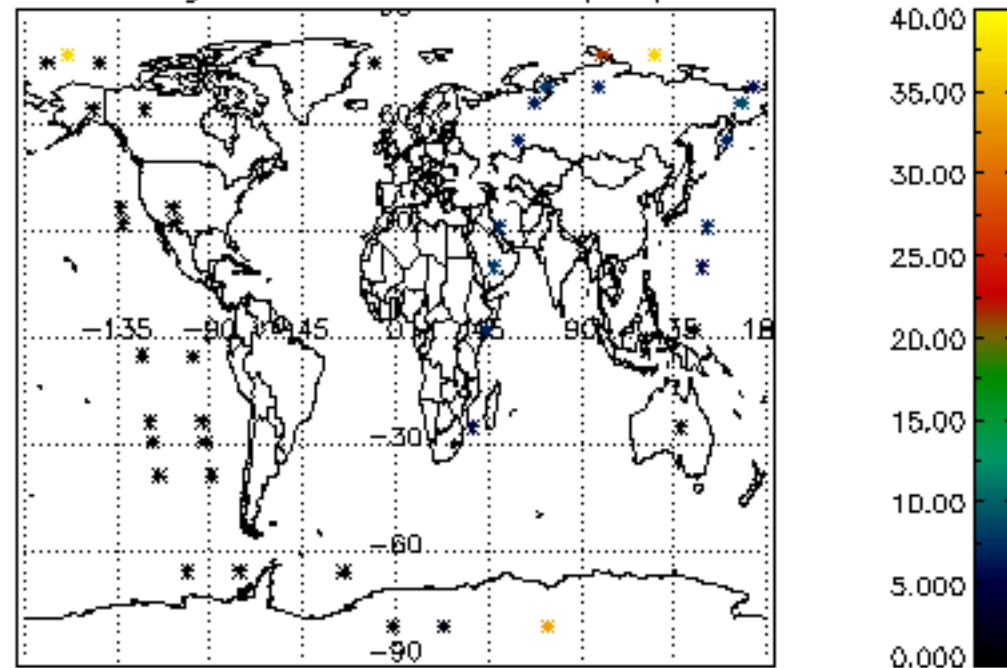
Percentage of datation errors per profile



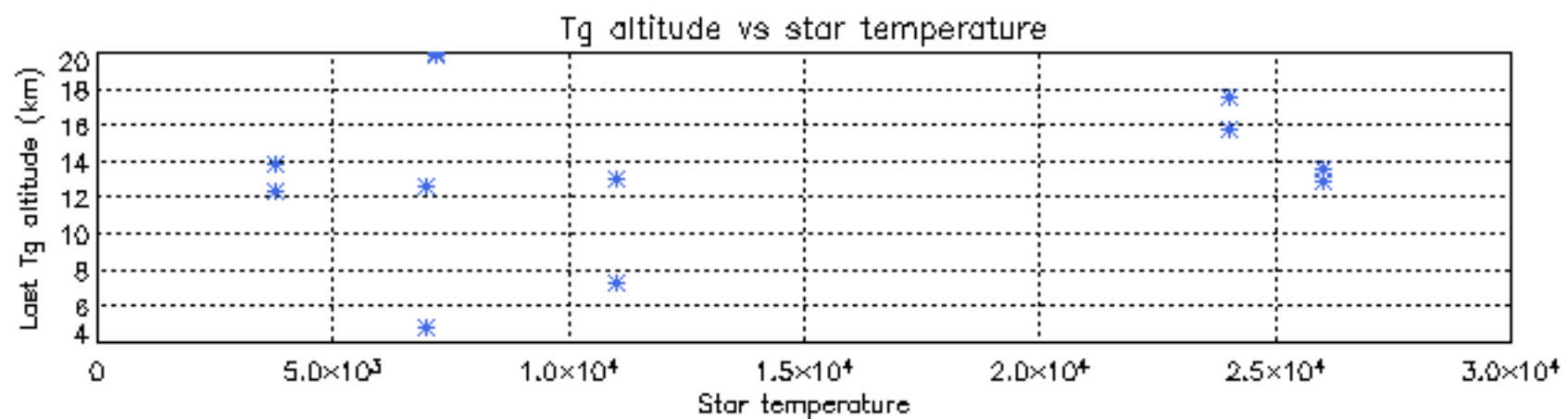
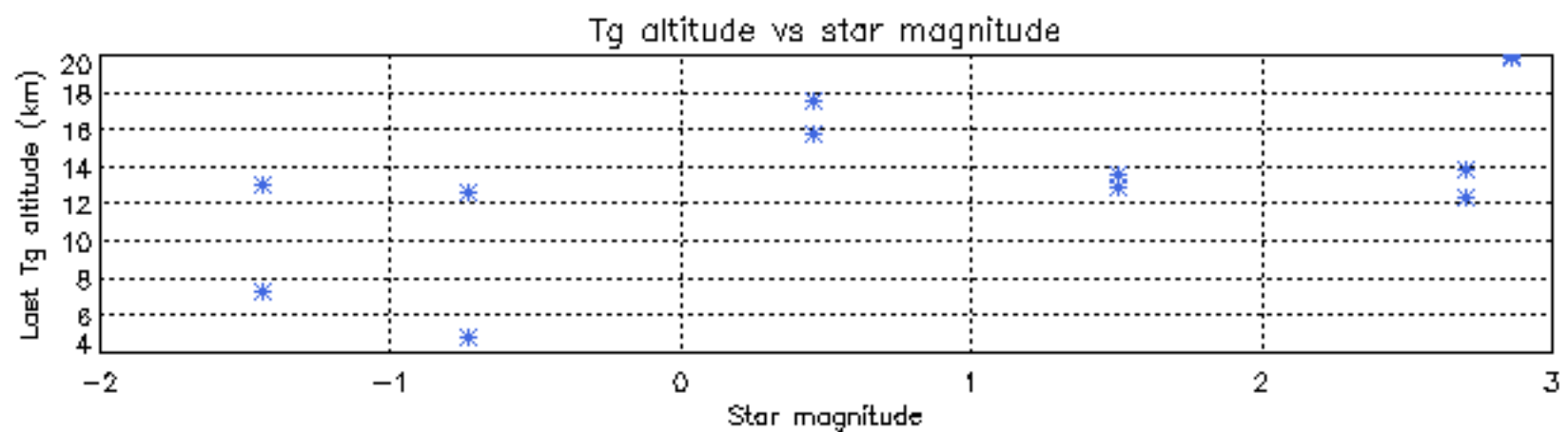
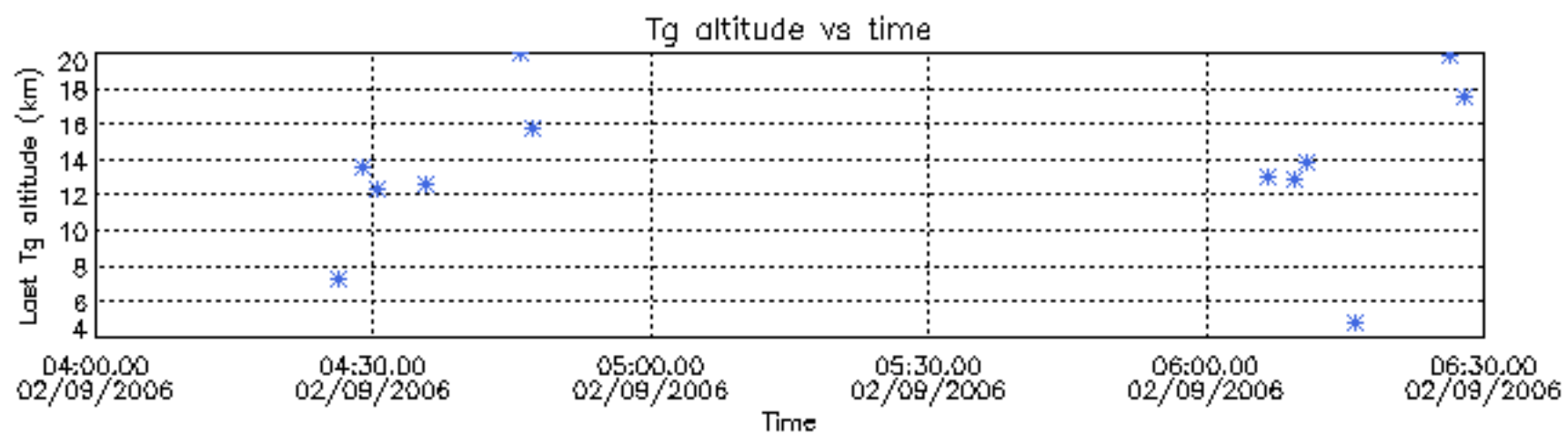
Percentage of star falling outside central band per profile



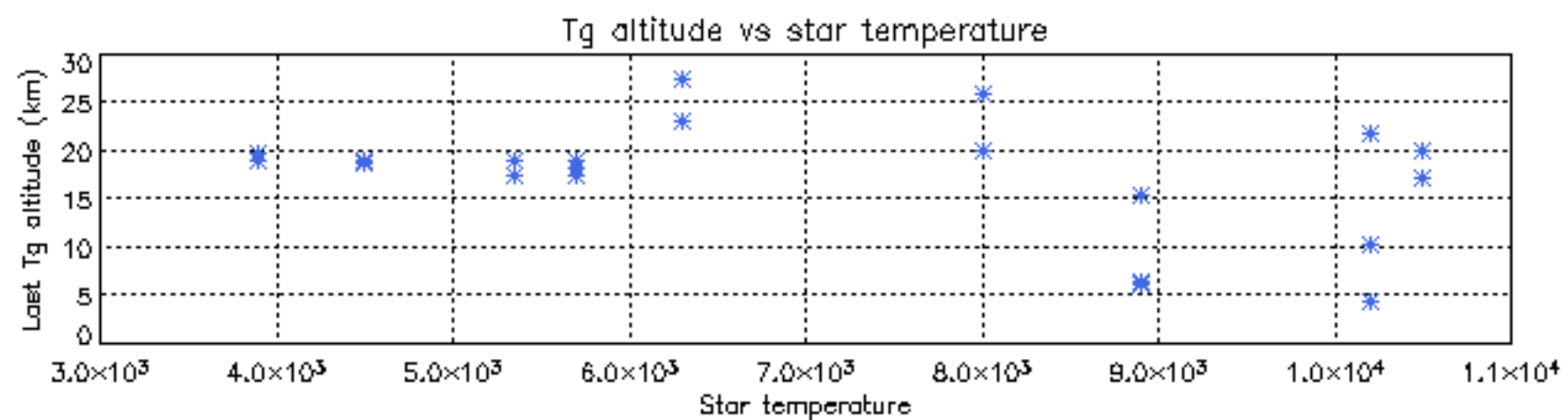
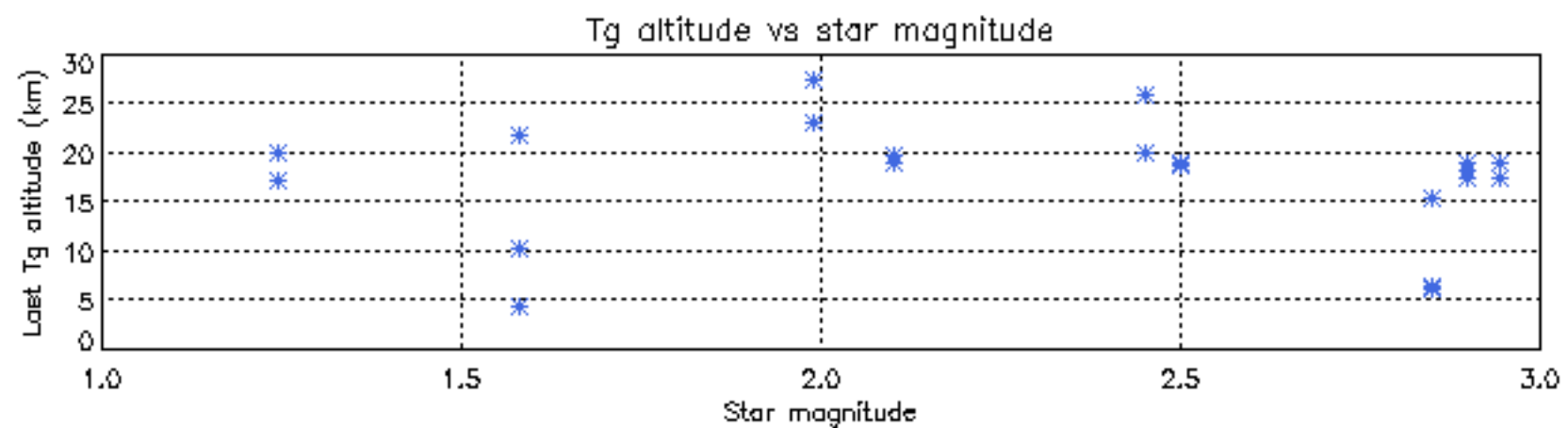
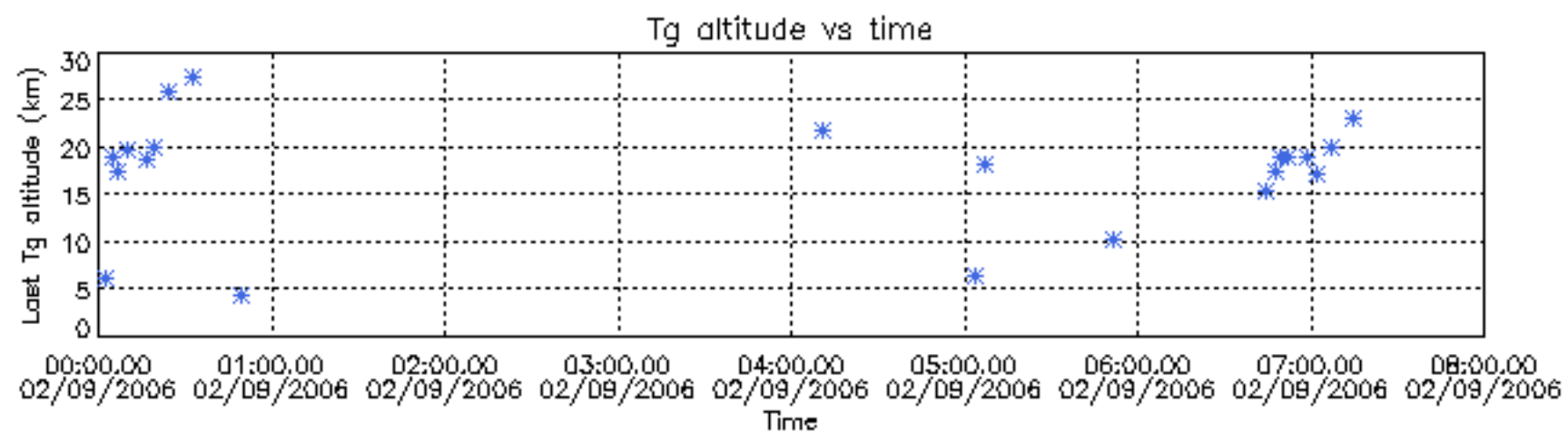
Percentage of saturation errors per profile



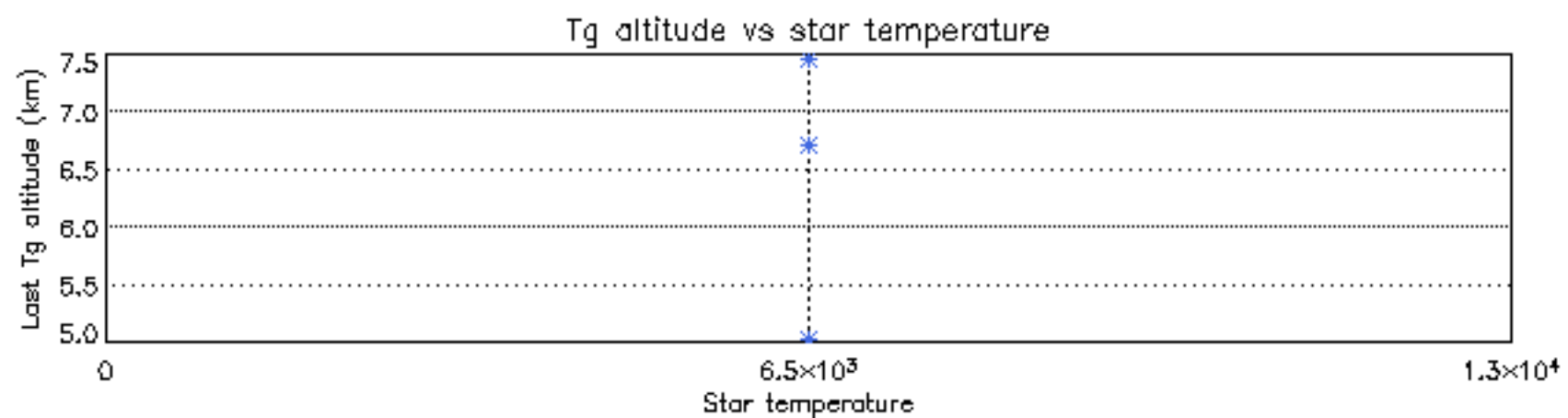
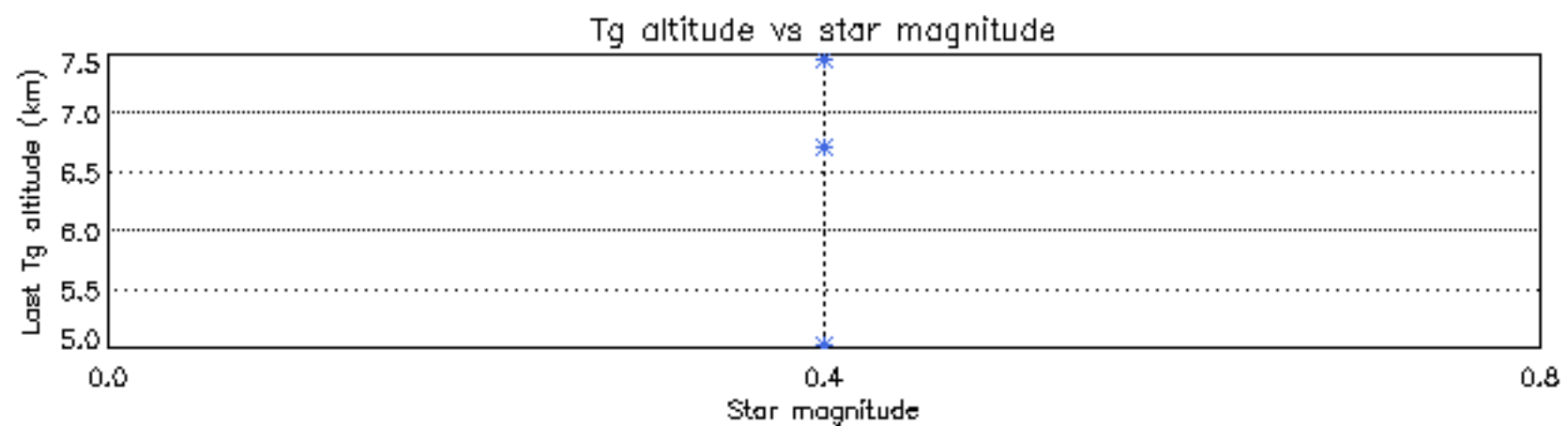
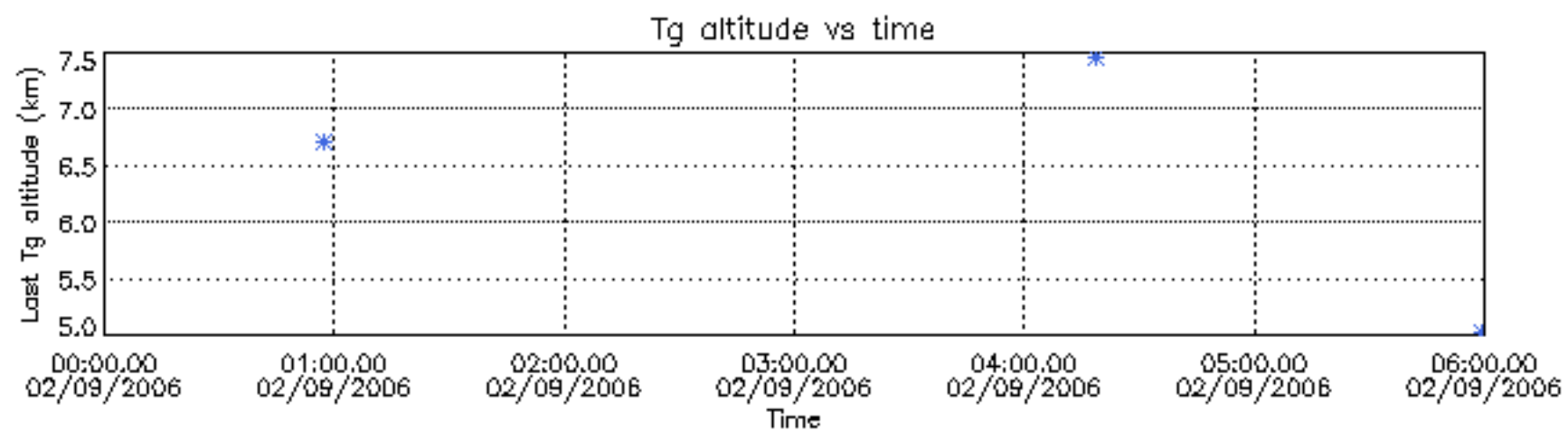
Tangent altitude at which the star is lost

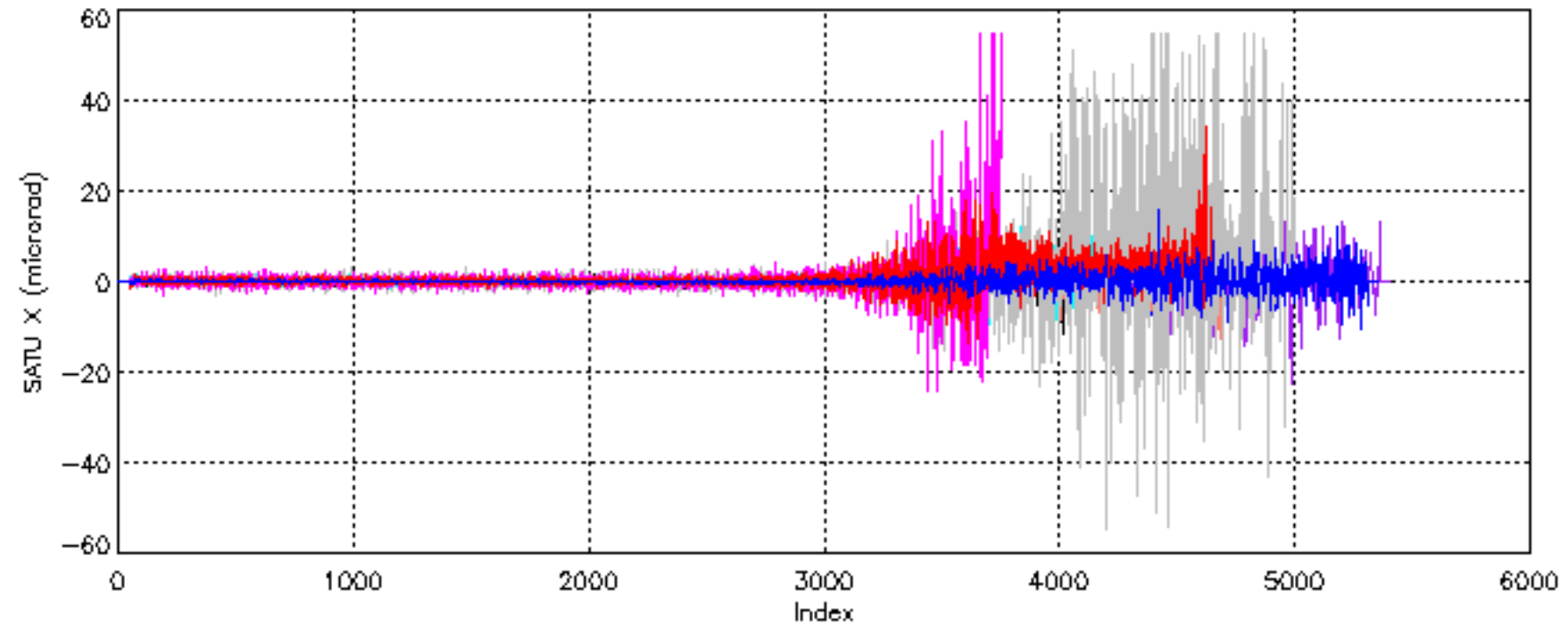


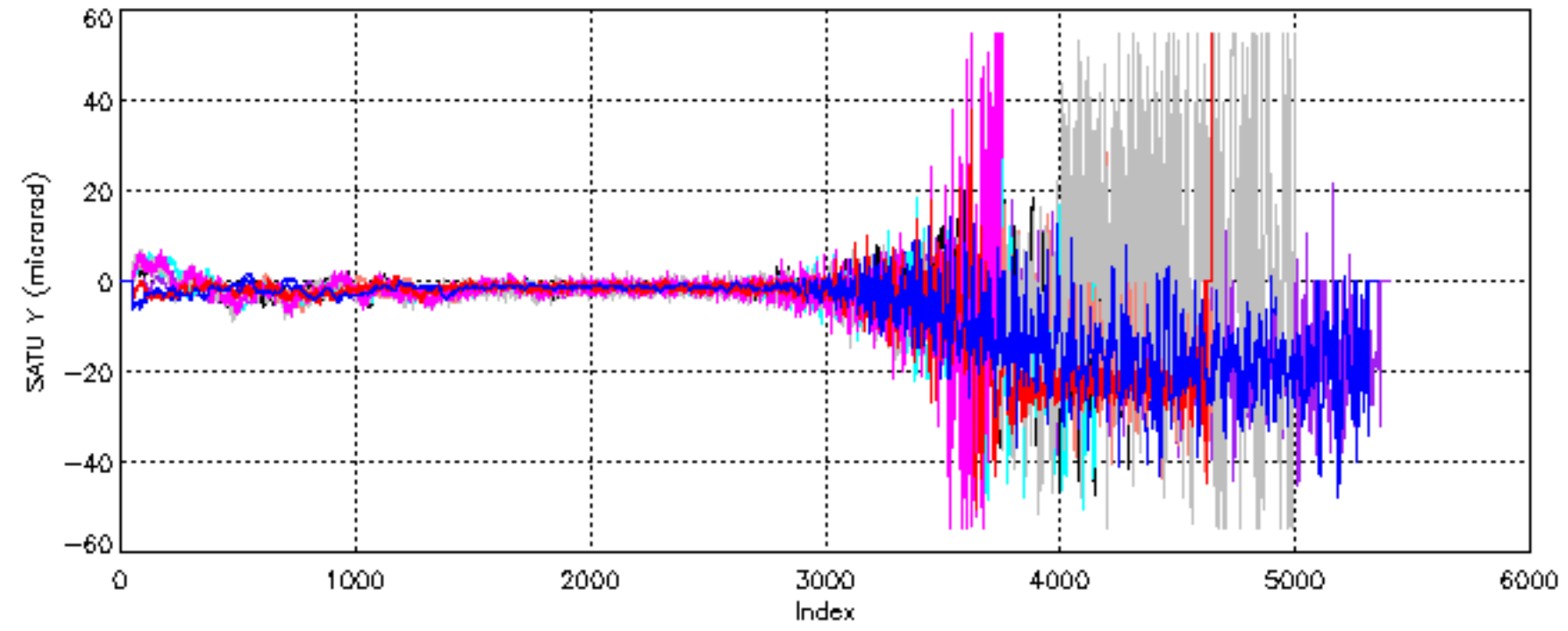
Tangent altitude at which the star is lost

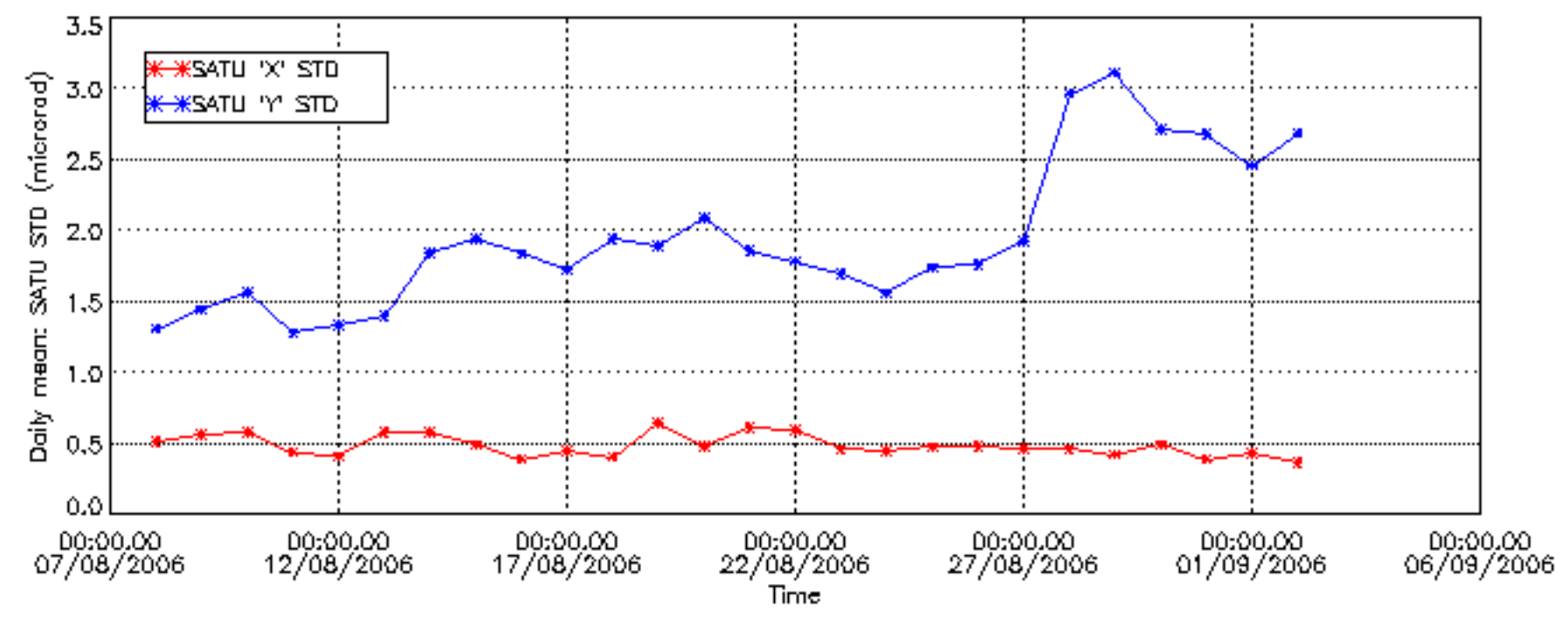


Tangent altitude at which the star is lost









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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
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 9; 1328.9; 01-SEP-2006 02:08:50; Dark ; 50.5; 18; 24Alp PsA ; 1.17; 9700;occ; 101; 0;23547
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 13; 2075.6; 01-SEP-2006 02:21:17; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;23547
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 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
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 13; 1807.8; 01-SEP-2006 03:57:24; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;23548
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