

GOMOS Daily Report 04-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	06SEP2006 05:31:56
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (04SEP2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (05SEP2006 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	34
Nb of prods with errors	0

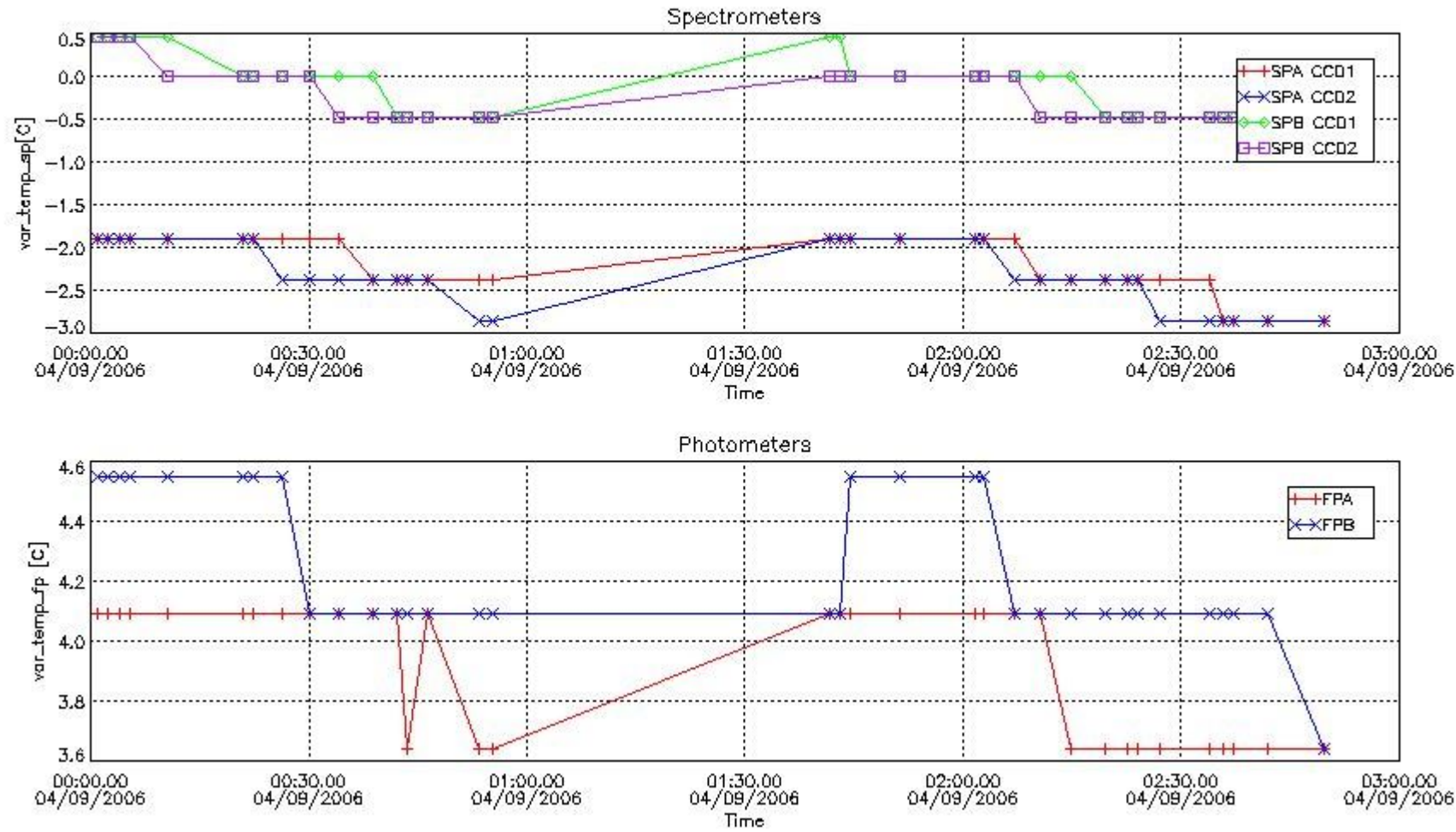
2. Summary of products arrived in PCF (Product Control Facility)

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_1PNPDE20060904_000057_000000382050_00488_23588_1185.N1	04-SEP-2006 00:00:57	Dark	38.000	132	15Rho Pup	2.8030	6900.0	76	23588	No
2	GOM_TRA_1PNPDE20060904_000226_000000402050_00488_23588_1181.N1	04-SEP-2006 00:02:26	Dark	40.000	179	24Omi2CMa	3.0320	24000.	80	23588	No
3	GOM_TRA_1PNPDE20060904_000355_000000442050_00488_23588_1187.N1	04-SEP-2006 00:03:55	Dark	43.500	23	21Eps CMa	1.5020	26000.	87	23588	No
4	GOM_TRA_1PNPDE20060904_000524_000000412050_00488_23588_1188.N1	04-SEP-2006 00:05:24	Dark	41.000	117	Pi Pup	2.7060	3800.0	82	23588	No
5	GOM_TRA_1PNPDE20060904_001036_000000542050_00488_23588_1189.N1	04-SEP-2006 00:10:36	Dark	54.000	2	Alp Car	-0.73600	7000.0	108	23588	No
6	GOM_TRA_1PNPDE20060904_002059_000000392050_00489_23589_1185.N1	04-SEP-2006 00:20:59	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	23589	No
7	GOM_TRA_1PNPDE20060904_002218_000000442050_00489_23589_1191.N1	04-SEP-2006 00:22:18	Dark	43.500	9	Alp Eri	0.45300	24000.	87	23589	No
8	GOM_TRA_1PNPDE20060904_002623_000000392050_00489_23589_1192.N1	04-SEP-2006 00:26:23	Straylight	38.500	148	Alp Tuc	2.8780	4100.0	77	23589	No
9	GOM_TRA_1PNPDE20060904_003004_000000382050_00489_23589_1193.N1	04-SEP-2006 00:30:04	Straylight	38.000	31	Alp Gru	1.7340	15200.	76	23589	No
10	GOM_TRA_1PNPDE20060904_003410_000000412050_00489_23589_1189.N1	04-SEP-2006 00:34:10	Straylight	41.000	18	24Alp PsA	1.1660	9700.0	82	23589	No
11	GOM_TRA_1PNPDE20060904_003854_000000412050_00489_23589_1195.N1	04-SEP-2006 00:38:54	Bright	41.000	142	49Del Cap	2.8500	8900.0	82	23589	No
12	GOM_TRA_1PNPDE20060904_004201_000000382050_00489_23589_1196.N1	04-SEP-2006 00:42:01	Bright	38.000	154	22Bet Aqr	2.8990	5700.0	76	23589	No
13	GOM_TRA_1PNPDE20060904_004325_000000402050_00489_23589_1197.N1	04-SEP-2006 00:43:25	Bright	39.500	162	34Alp Aqr	2.9440	5350.0	79	23589	No
14	GOM_TRA_1PNPDE20060904_004624_000000392050_00489_23589_1198.N1	04-SEP-2006 00:46:24	Bright	38.500	61	8Eps Peg	2.1000	3900.0	77	23589	No
15	GOM_TRA_1PNPDE20060904_005320_000000352050_00489_23589_1199.N1	04-SEP-2006 00:53:20	Bright	34.500	92	53Eps Cyg	2.5000	4500.0	69	23589	No
16	GOM_TRA_1PNPDE20060904_005516_000000362050_00489_23589_1200.N1	04-SEP-2006 00:55:16	Bright	36.000	66	37Gam Cyg	2.2080	5900.0	72	23589	No
17	GOM_TRA_1PNPDE20060904_014133_000000382050_00489_23589_1184.N1	04-SEP-2006 01:41:33	Dark	38.000	132	15Rho Pup	2.8030	6900.0	76	23589	No
18	GOM_TRA_1PNPDE20060904_014303_000000402050_00489_23589_1185.N1	04-SEP-2006 01:43:03	Dark	39.500	179	24Omi2CMa	3.0320	24000.	79	23589	No
19	GOM_TRA_1PNPDE20060904_014431_000000452050_00489_23589_1186.N1	04-SEP-2006 01:44:31	Dark	44.500	23	21Eps CMa	1.5020	26000.	89	23589	No
20	GOM_TRA_1PNPDE20060904_015113_000000502050_00489_23589_1184.N1	04-SEP-2006 01:51:13	Dark	49.500	2	Alp Car	-0.73600	7000.0	99	23589	No
21	GOM_TRA_1PNPDE20060904_020135_000000392050_00490_23590_1185.N1	04-SEP-2006 02:01:35	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	23590	No
22	GOM_TRA_1PNPDE20060904_020254_000000472050_00490_23590_1186.N1	04-SEP-2006 02:02:54	Dark	47.000	9	Alp Eri	0.45300	24000.	94	23590	No
23	GOM_TRA_1PNPDE20060904_020659_000000392050_00490_23590_1187.N1	04-SEP-2006 02:06:59	Straylight	38.500	148	Alp Tuc	2.8780	4100.0	77	23590	No
24	GOM_TRA_1PNPDE20060904_021040_000000402050_00490_23590_1188.N1	04-SEP-2006 02:10:40	Straylight	39.500	31	Alp Gru	1.7340	15200.	79	23590	No
25	GOM_TRA_1PNPDE20060904_021446_000000482050_00490_23590_1189.N1	04-SEP-2006 02:14:46	Straylight	48.000	18	24Alp PsA	1.1660	9700.0	96	23590	No
26	GOM_TRA_1PNPDE20060904_021930_000000402050_00490_23590_1190.N1	04-SEP-2006 02:19:30	Bright	39.500	142	49Del Cap	2.8500	8900.0	79	23590	No
27	GOM_TRA_1PNPDE20060904_022237_000000372050_00490_23590_1191.N1	04-SEP-2006 02:22:37	Bright	36.500	154	22Bet Aqr	2.8990	5700.0	73	23590	No
28	GOM_TRA_1PNPDE20060904_022401_000000392050_00490_23590_1192.N1	04-SEP-2006 02:24:01	Bright	39.000	162	34Alp Aqr	2.9440	5350.0	78	23590	No
29	GOM_TRA_1PNPDE20060904_022700_000000382050_00490_23590_1193.N1	04-SEP-2006 02:27:00	Bright	37.500	61	8Eps Peg	2.1000	3900.0	75	23590	No
30	GOM_TRA_1PNPDE20060904_023356_000000382050_00490_23590_1194.N1	04-SEP-2006 02:33:56	Bright	37.500	92	53Eps Cyg	2.5000	4500.0	75	23590	No
31	GOM_TRA_1PNPDE20060904_023552_000000382050_00490_23590_1195.N1	04-SEP-2006 02:35:52	Bright	37.500	66	37Gam Cyg	2.2080	5900.0	75	23590	No
32	GOM_TRA_1PNPDE20060904_023706_000000372050_00490_23590_1196.N1	04-SEP-2006 02:37:06	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	23590	No
33	GOM_TRA_1PNPDE20060904_024158_000000362050_00490_23590_1197.N1	04-SEP-2006 02:41:58	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	23590	No
34	GOM_TRA_1PNPDE20060904_024939_000000352050_00490_23590_1198.N1	04-SEP-2006 02:49:39	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	23590	No

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



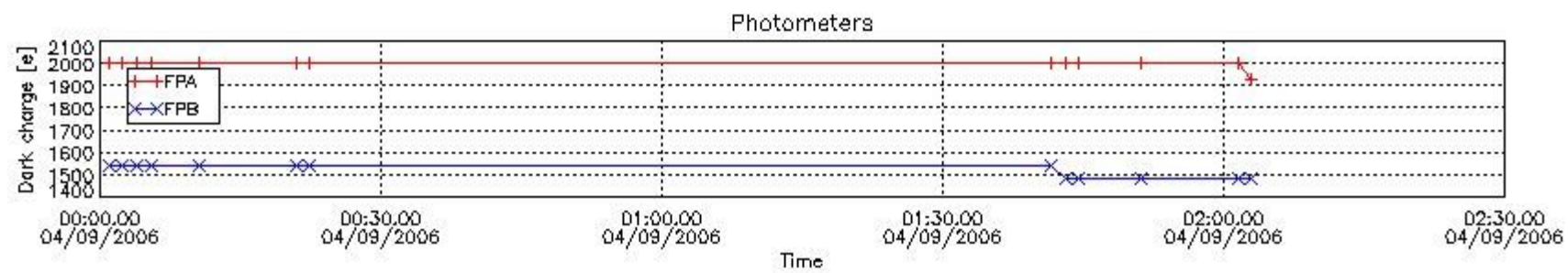
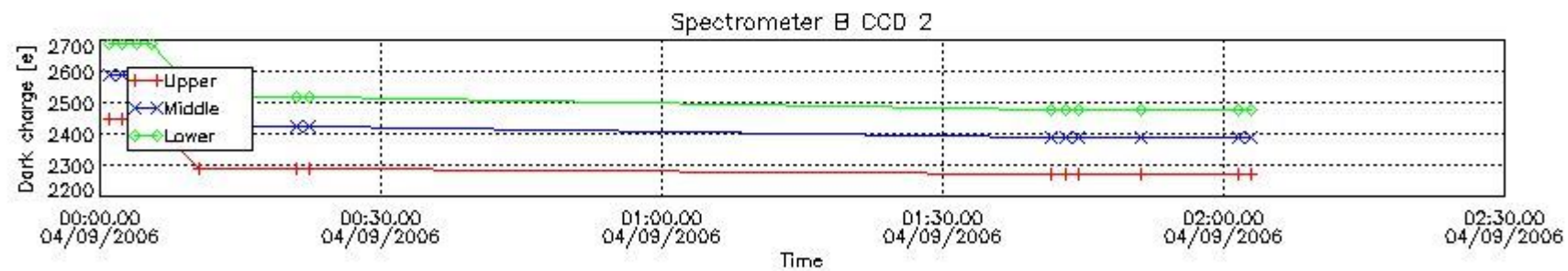
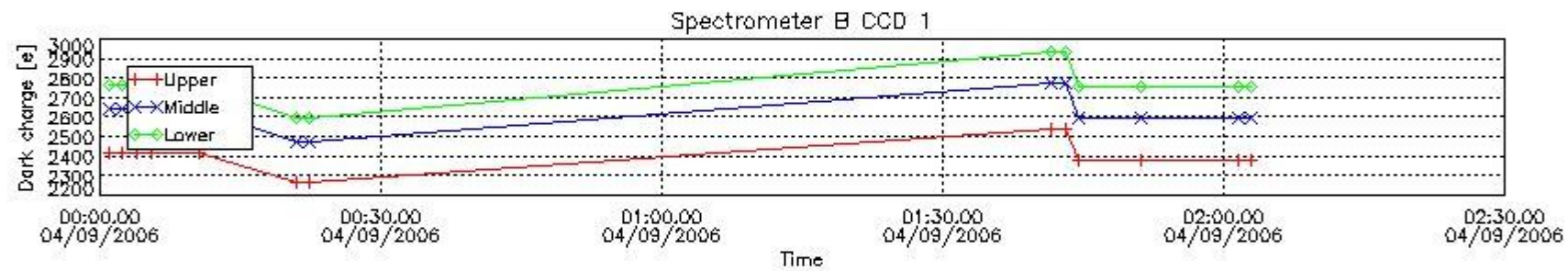
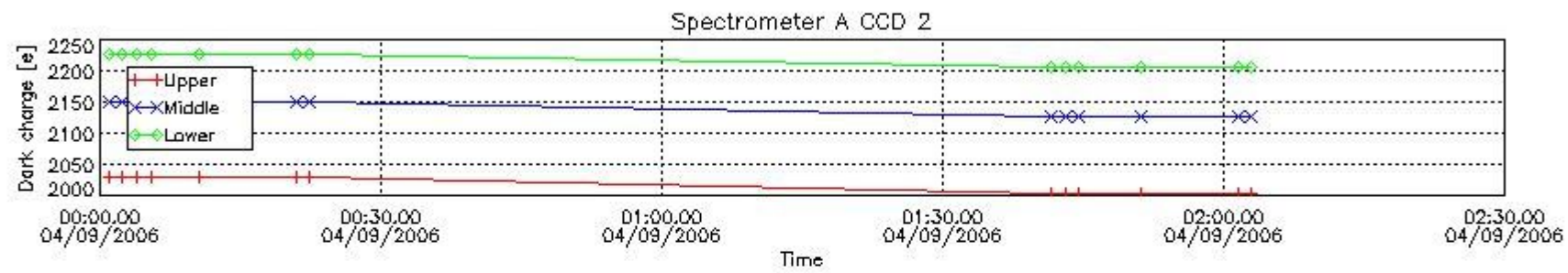
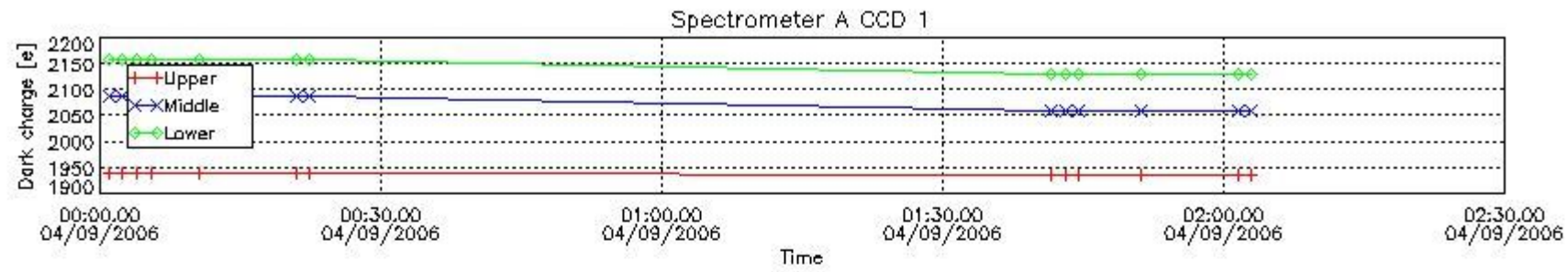
4. Overview of dark signal processing per product

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



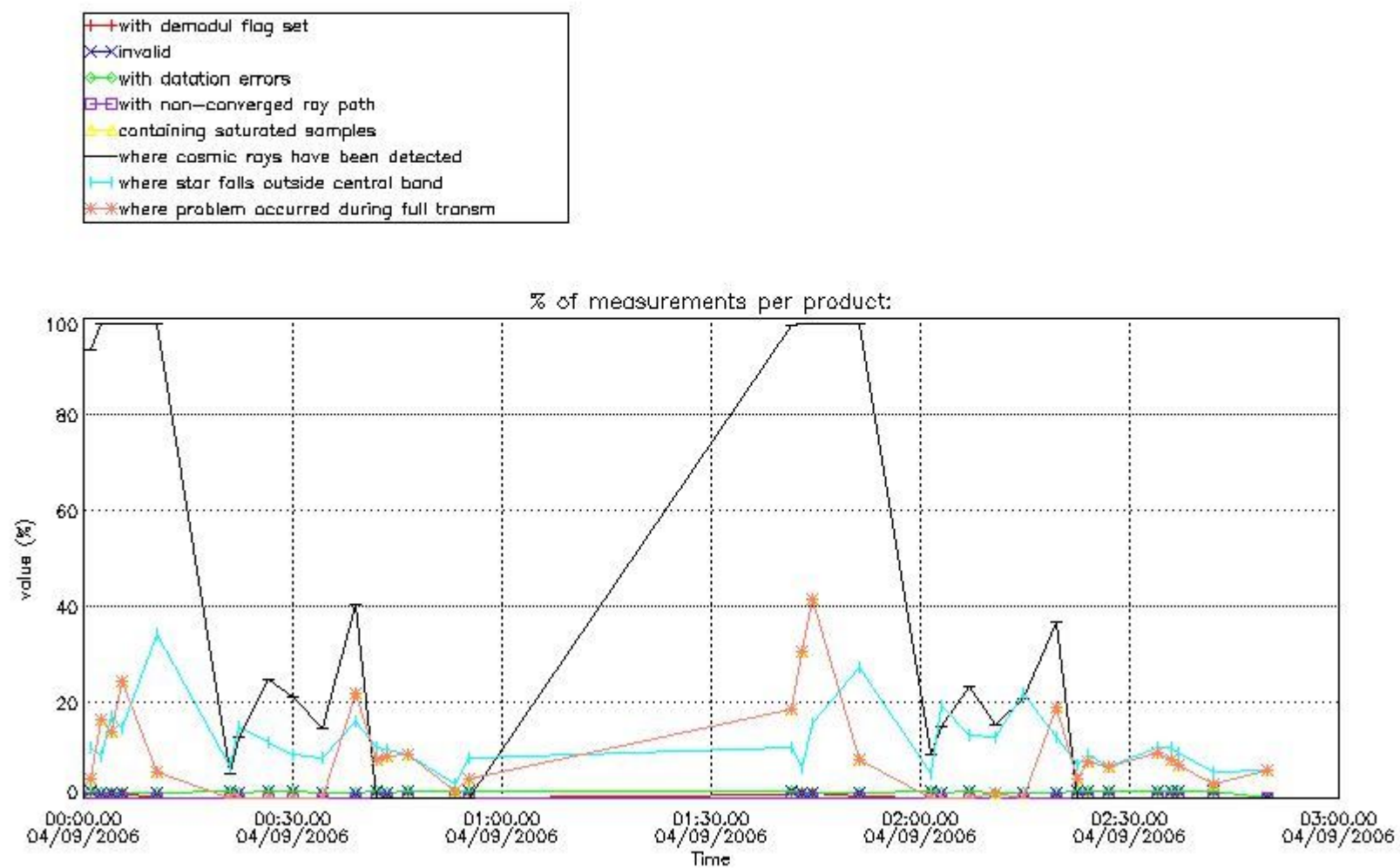
5. Demodulation flag and quality information monitoring

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.

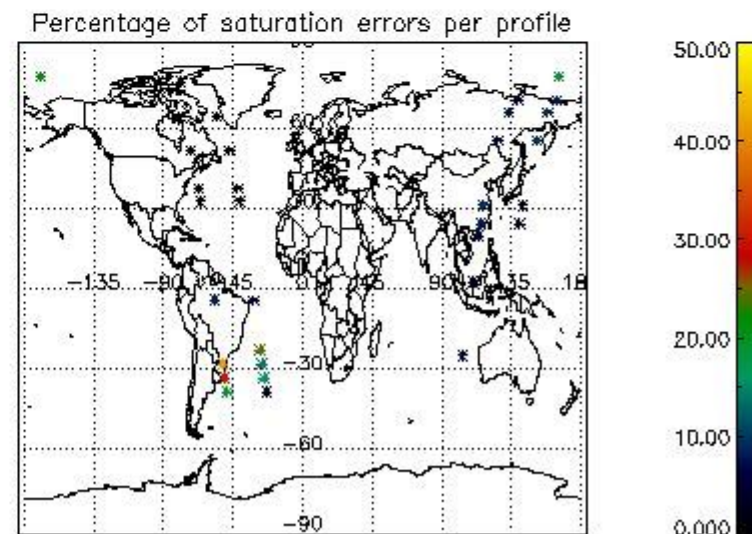
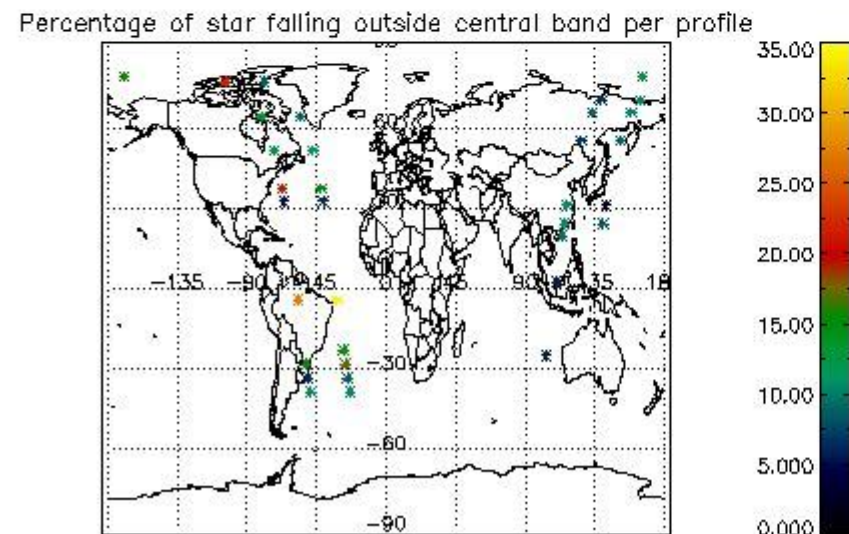
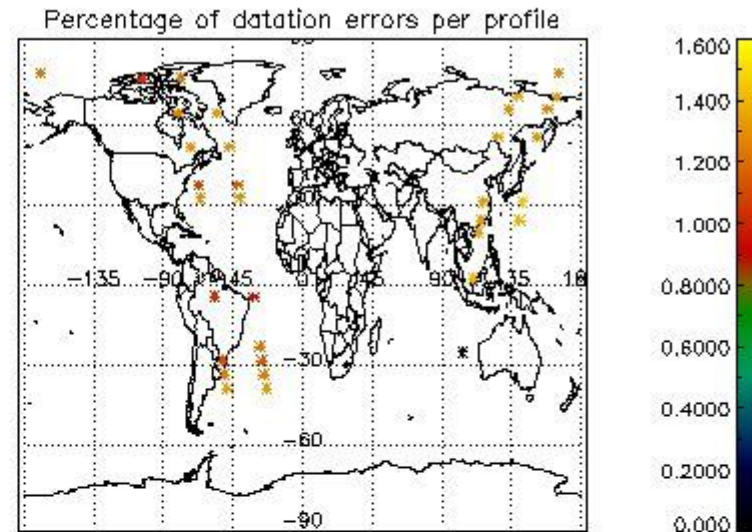
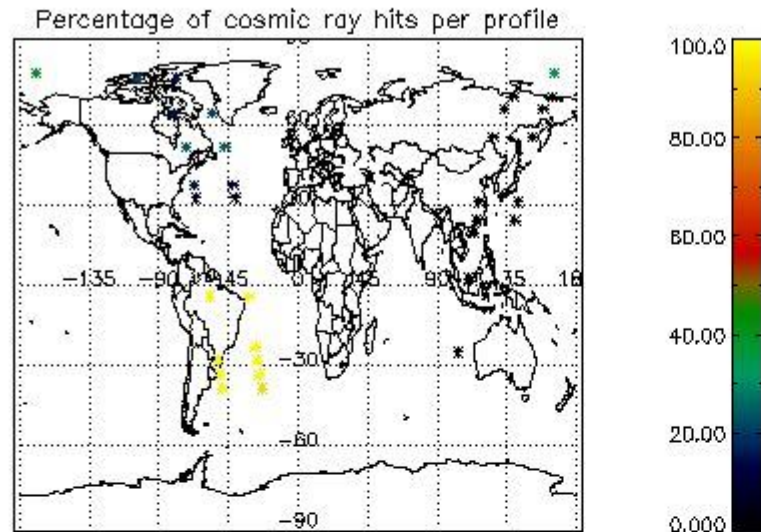
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	32.3529 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



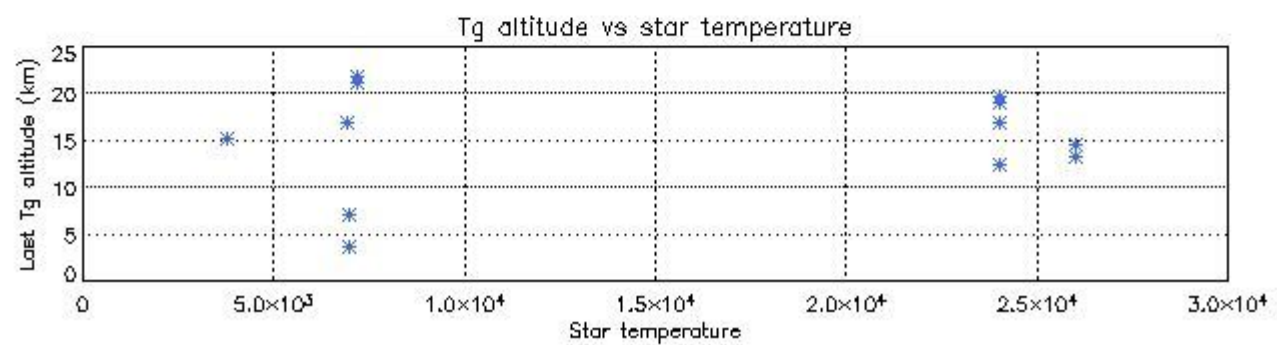
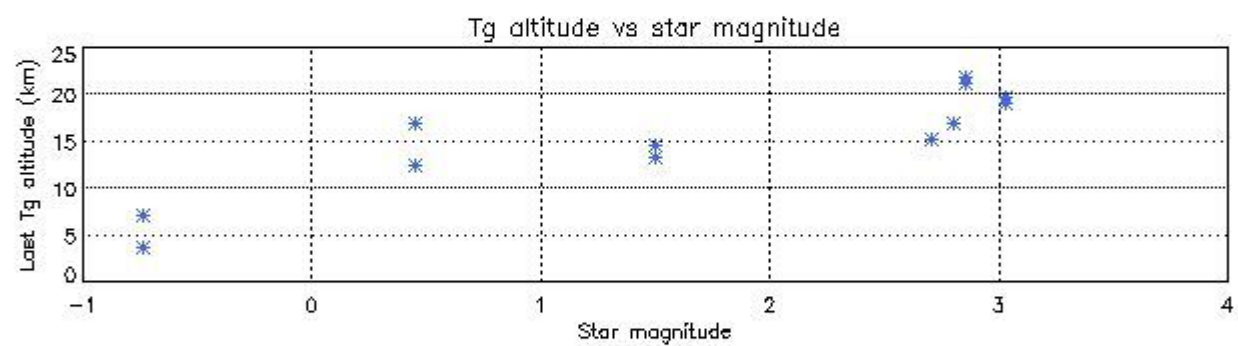
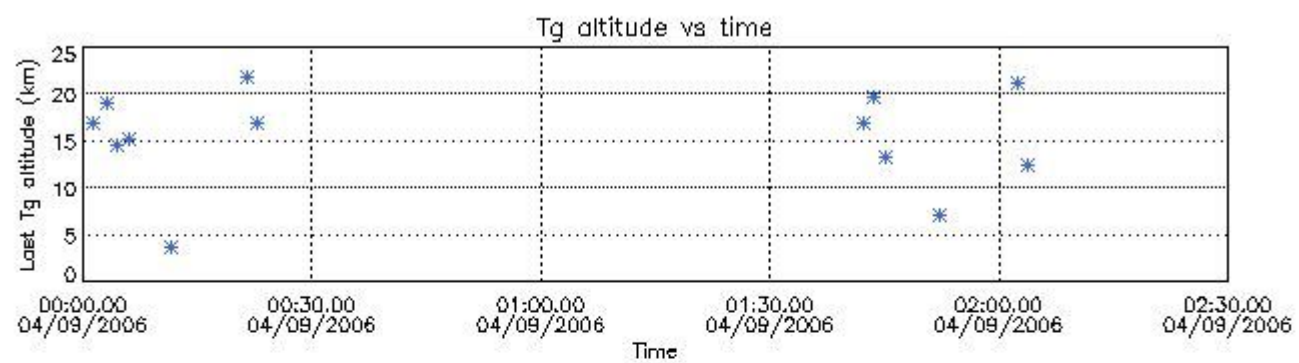
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.241	18.695	NaN
St. deviation:	5.2726	2.6211	NaN
Maximum:	21.827	23.024	NaN
Minimum:	3.6044	13.859	NaN
Number of data:	13.000	15.000	NaN

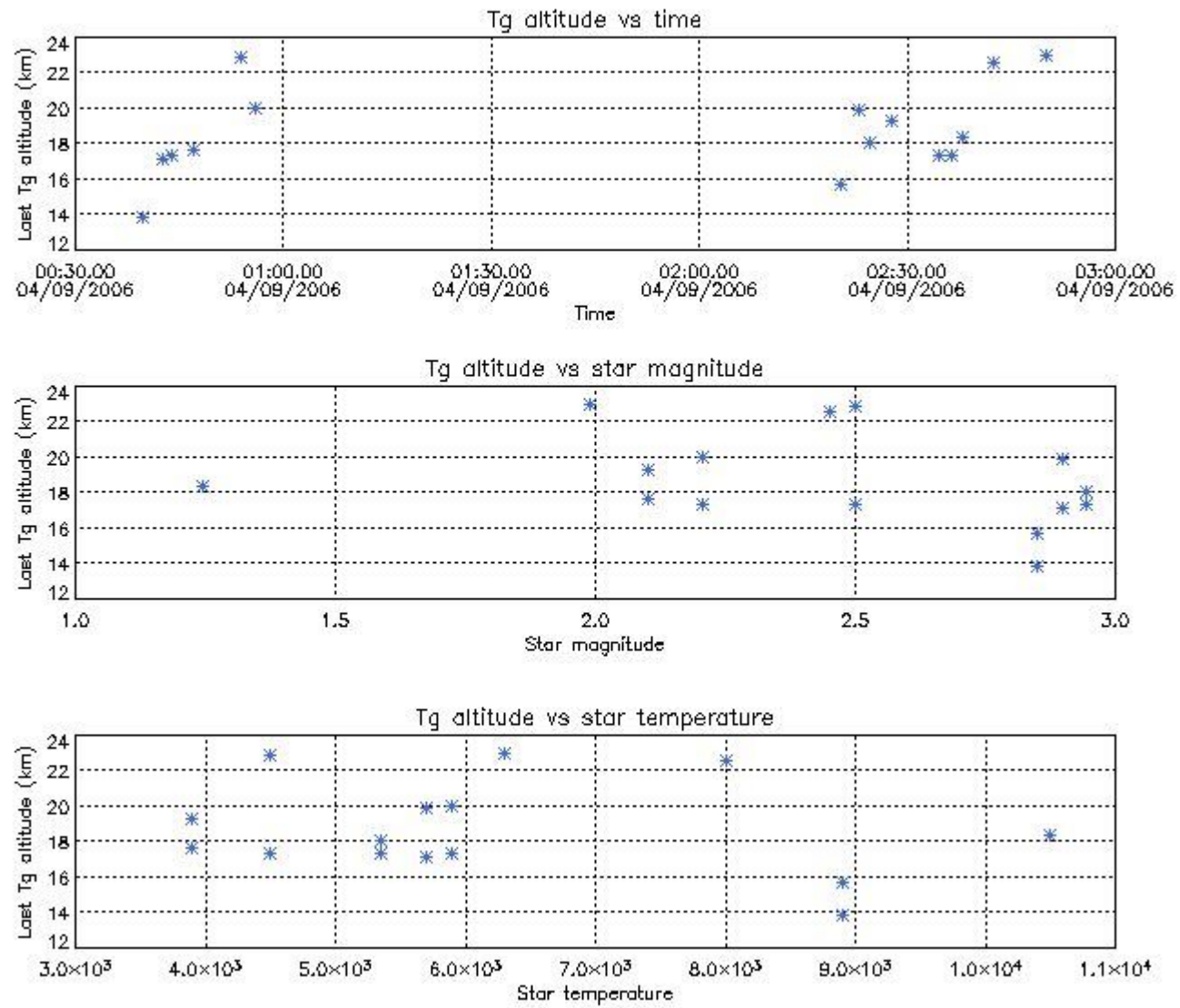
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

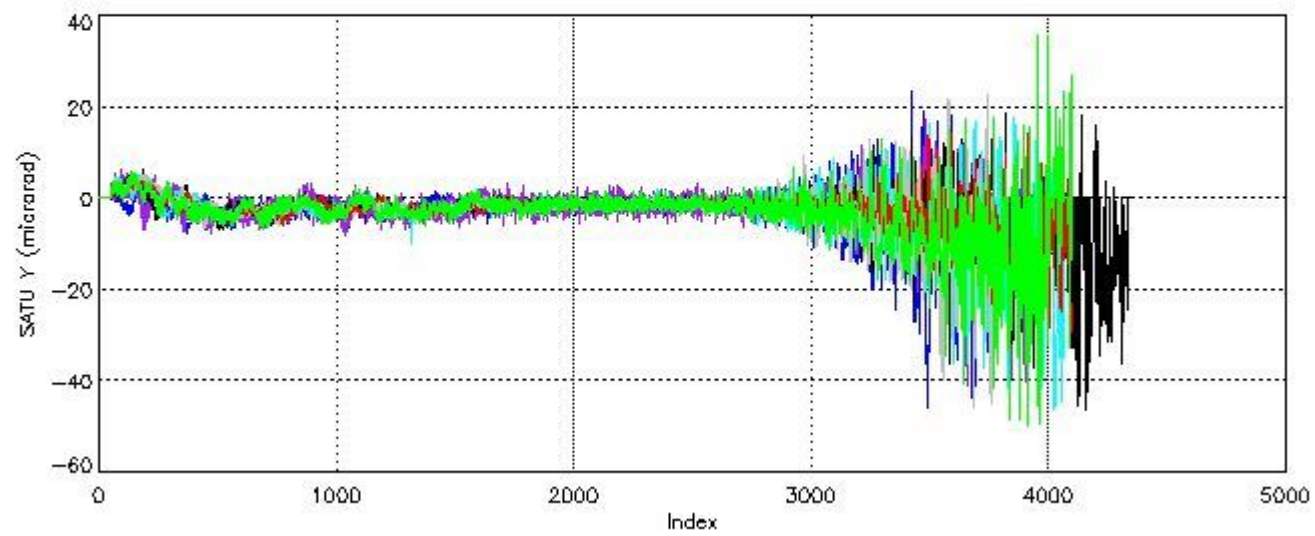
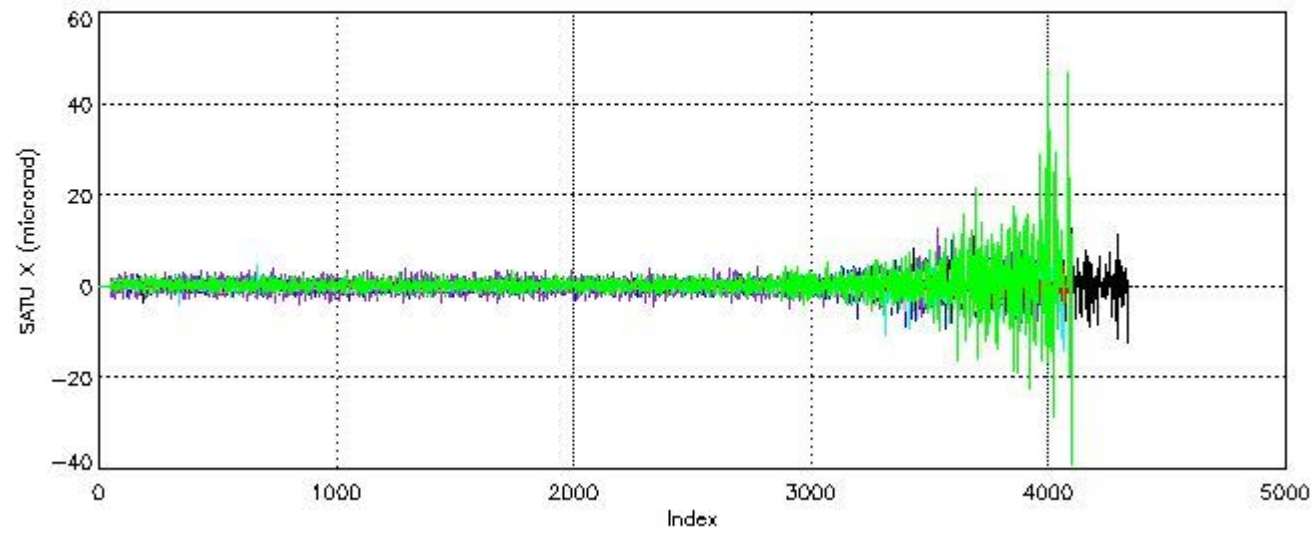


7. Star Acquisition and Tracking Unit (SATU)

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.

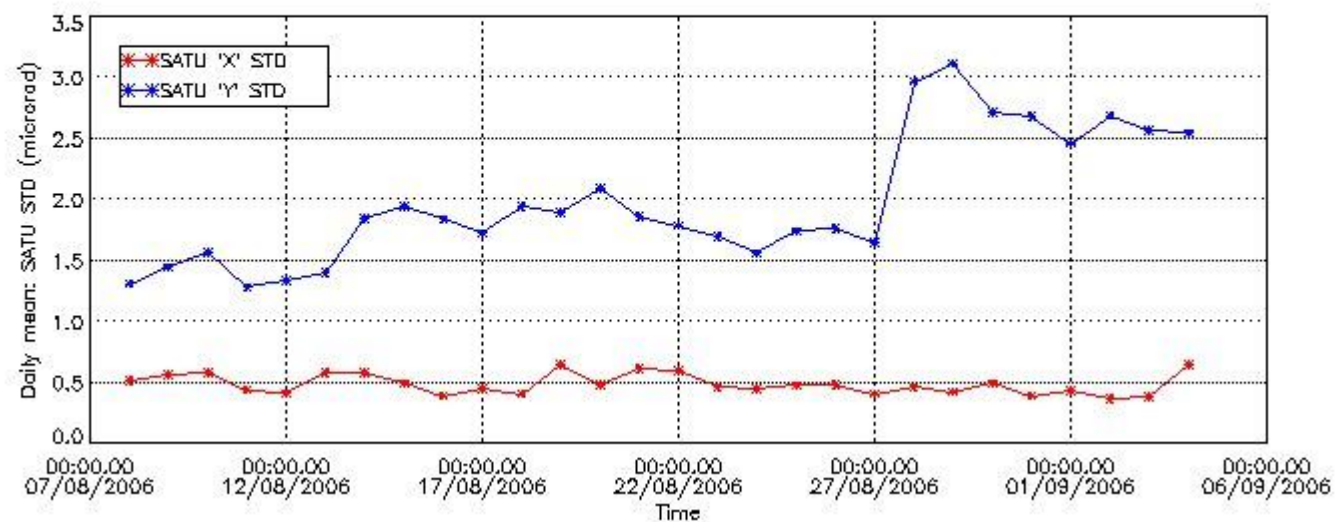
7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.10202	-1.0418	0.11119	-0.91420
St. deviation:	0.63795	2.5397	0.66261	2.5227
Maximum:	28.000	23.100	3.4000	6.6000
Minimum:	-0.30000	-5.2000	-1.5000	-5.4000

Number of data:	12150.	12150.	12450.	12450.
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7.2.2 Trend of daily SATU NEA St. deviation during the last two months (dark limb)

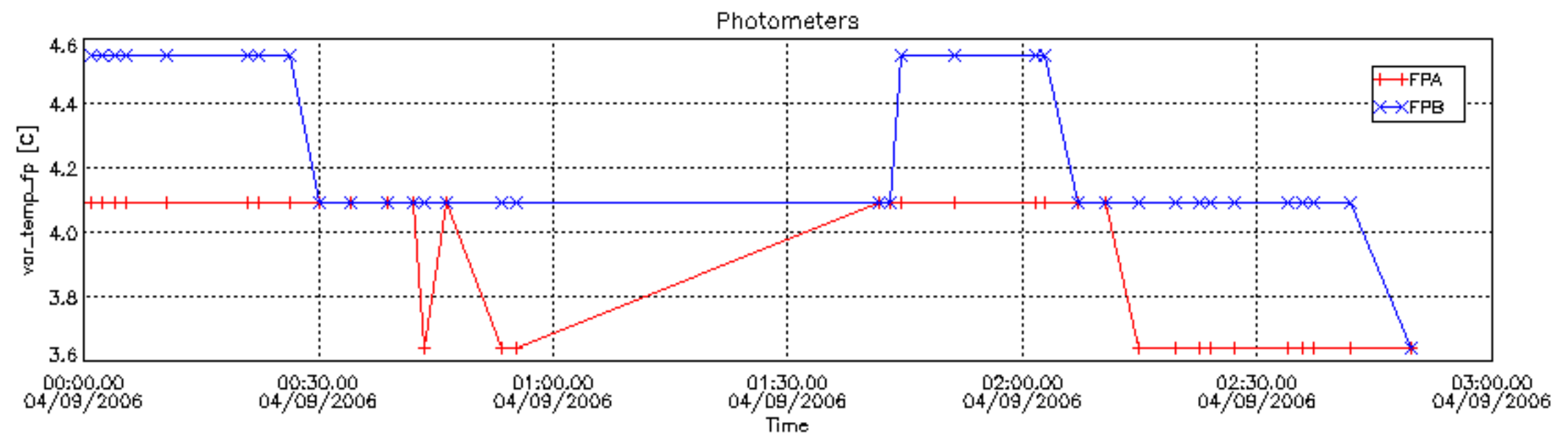
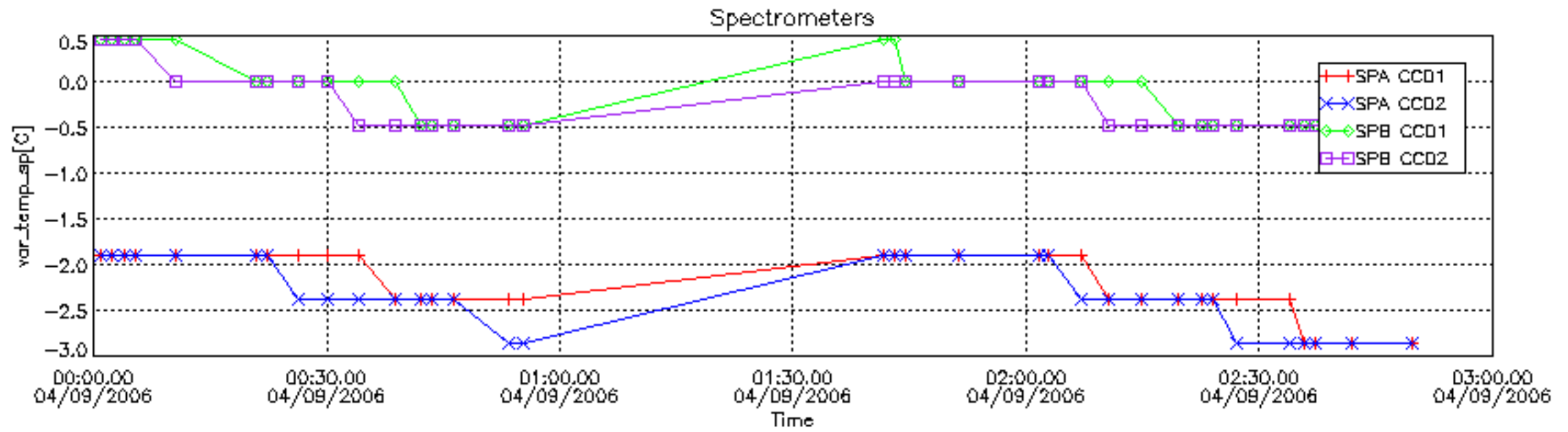
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

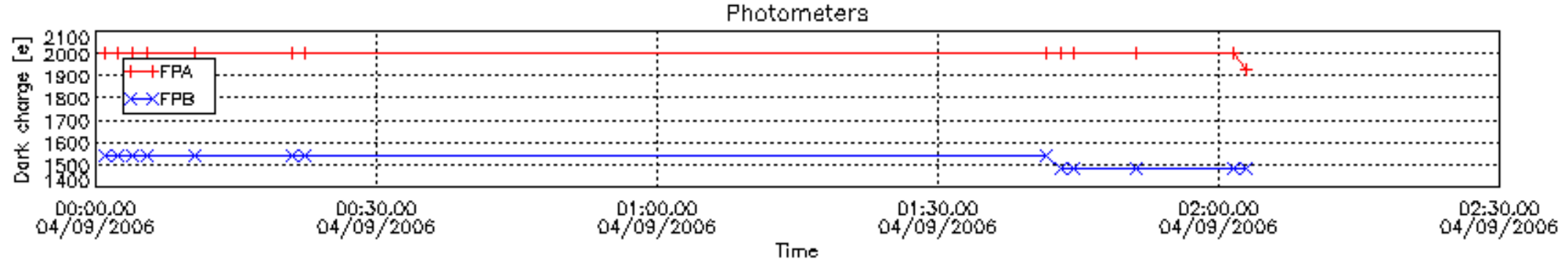
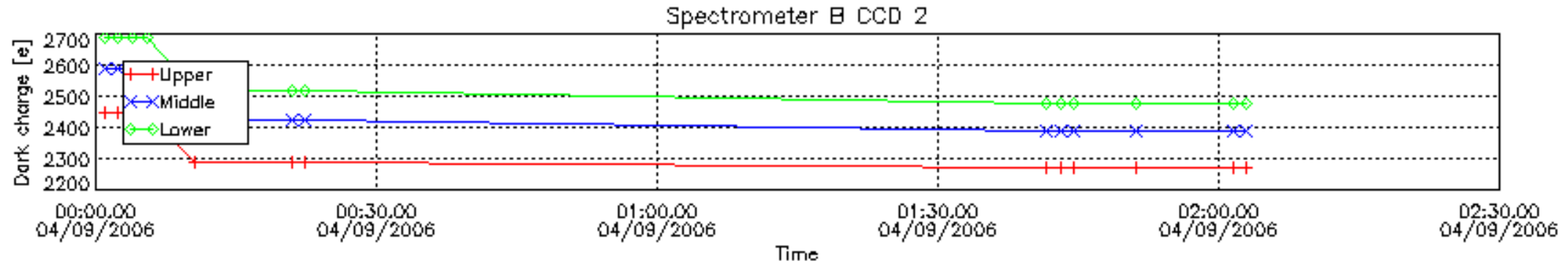
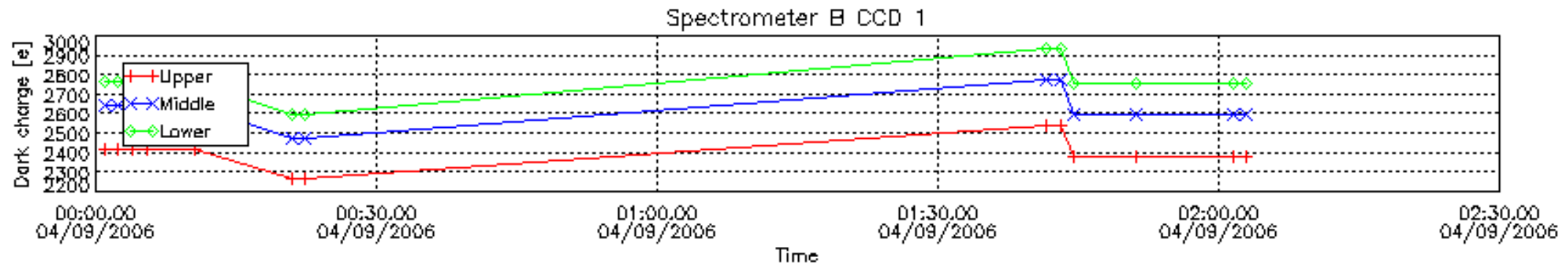
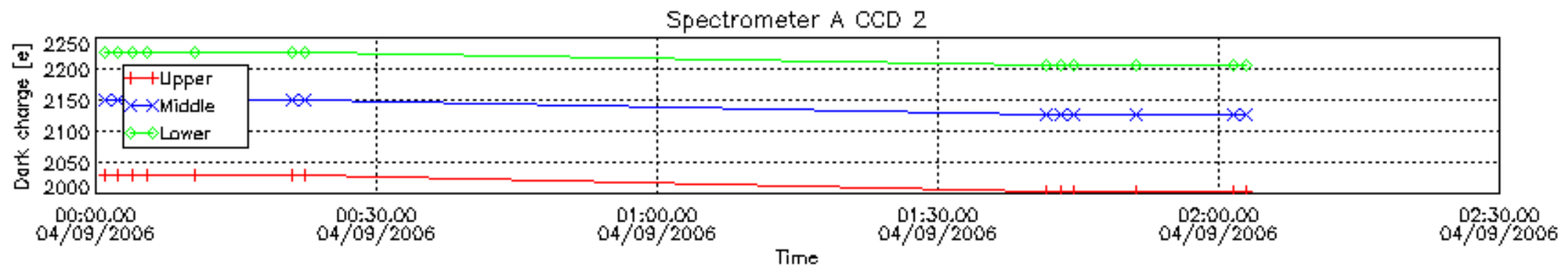
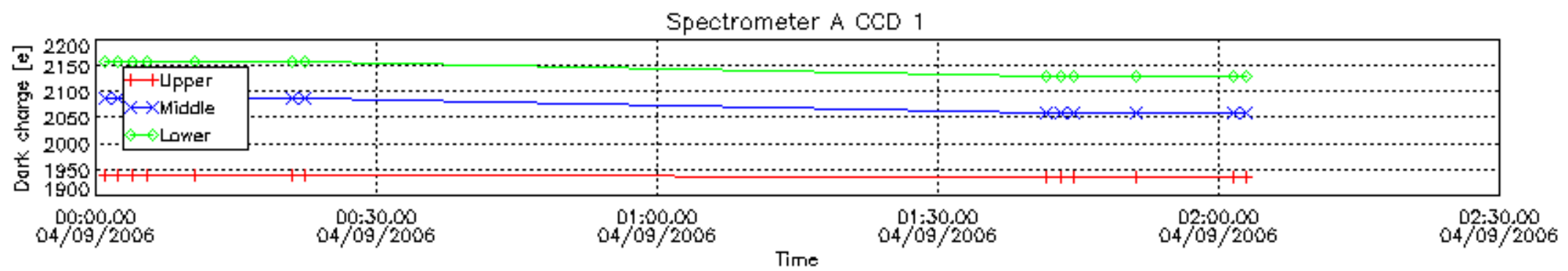


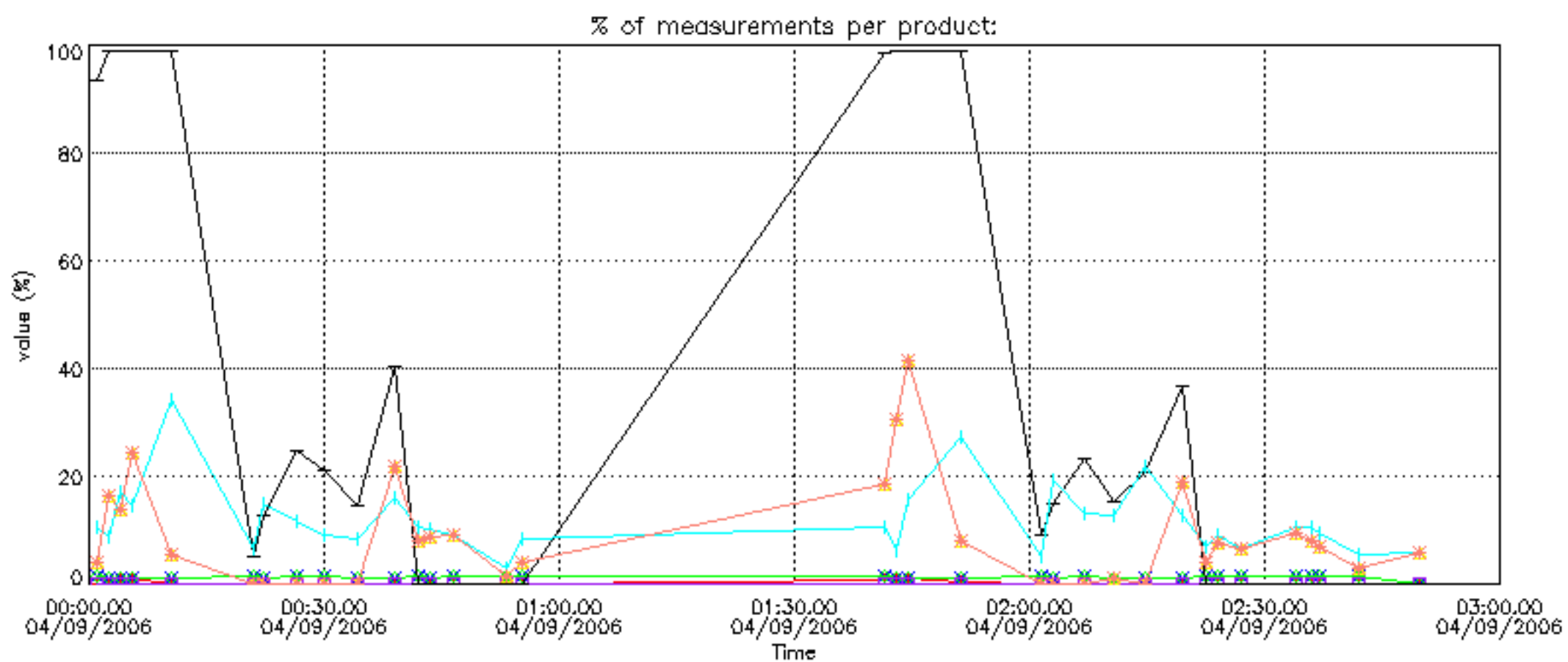
8. Auxiliary Data Files used for the production reported in section 2.2

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.

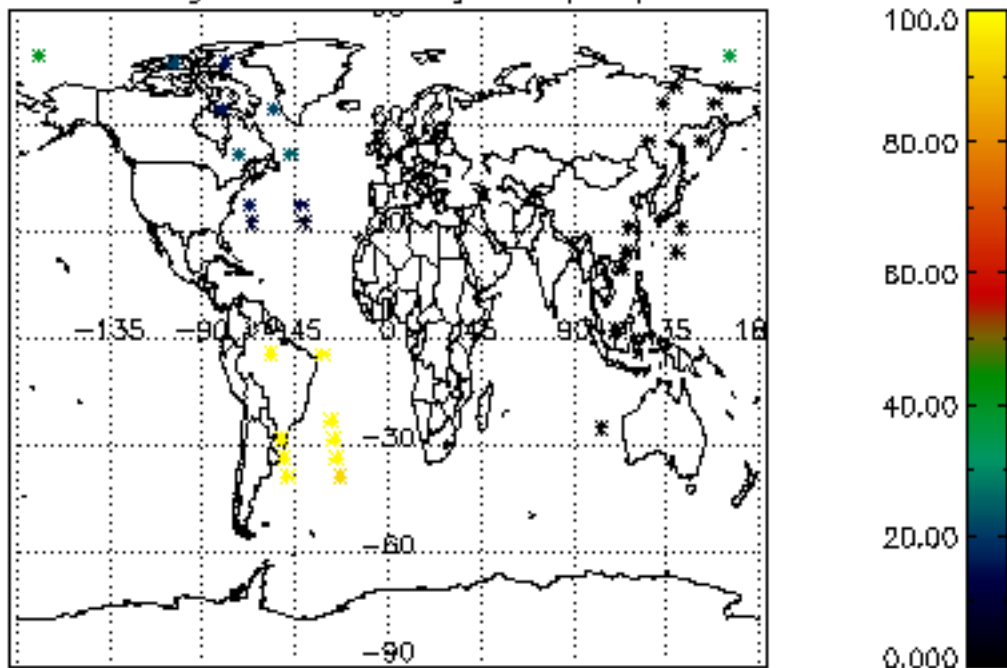
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	04-SEP-2006 00:00:57
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060825_091604_20060823_000000_20100101_000000	1	04-SEP-2006 00:00:57
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	04-SEP-2006 00:00:57
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	04-SEP-2006 00:00:57
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	04-SEP-2006 00:00:57
ECMWF_FILE	AUX_ECA_AXNECM20060904_060844_20060903_210000_20060904_090000	1	04-SEP-2006 00:00:57
ECMWF_FILE	AUX_ECF_AXNECM20060903_063811_20060903_210000_20060904_090000	2	04-SEP-2006 00:02:26
ECMWF_FILE	AUX_ECA_AXNECM20060904_060844_20060903_210000_20060904_090000	3	04-SEP-2006 00:03:55
ECMWF_FILE	AUX_ECF_AXNECM20060903_063811_20060903_210000_20060904_090000	6	04-SEP-2006 00:20:59
ECMWF_FILE	AUX_ECA_AXNECM20060904_060844_20060903_210000_20060904_090000	7	04-SEP-2006 00:22:18
ECMWF_FILE	AUX_ECF_AXNECM20060903_063811_20060903_210000_20060904_090000	10	04-SEP-2006 00:34:10
ECMWF_FILE	AUX_ECA_AXNECM20060904_060844_20060903_210000_20060904_090000	11	04-SEP-2006 00:38:54
ECMWF_FILE	AUX_ECF_AXNECM20060903_063811_20060903_210000_20060904_090000	20	04-SEP-2006 01:51:13
OPTIONAL_ECMWF_FILE	MISSING	1	04-SEP-2006 00:00:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060903_235413_000057382050_00488_23588_0487.N1	1	04-SEP-2006 00:00:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060903_221316_000057382050_00487_23587_0486.N1	2	04-SEP-2006 00:02:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060903_235413_000057382050_00488_23588_0487.N1	3	04-SEP-2006 00:03:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060903_221316_000057382050_00487_23587_0486.N1	6	04-SEP-2006 00:20:59
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060903_235413_000057382050_00488_23588_0487.N1	7	04-SEP-2006 00:22:18
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060903_221316_000057382050_00487_23587_0486.N1	10	04-SEP-2006 00:34:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060903_235413_000057382050_00488_23588_0487.N1	11	04-SEP-2006 00:38:54
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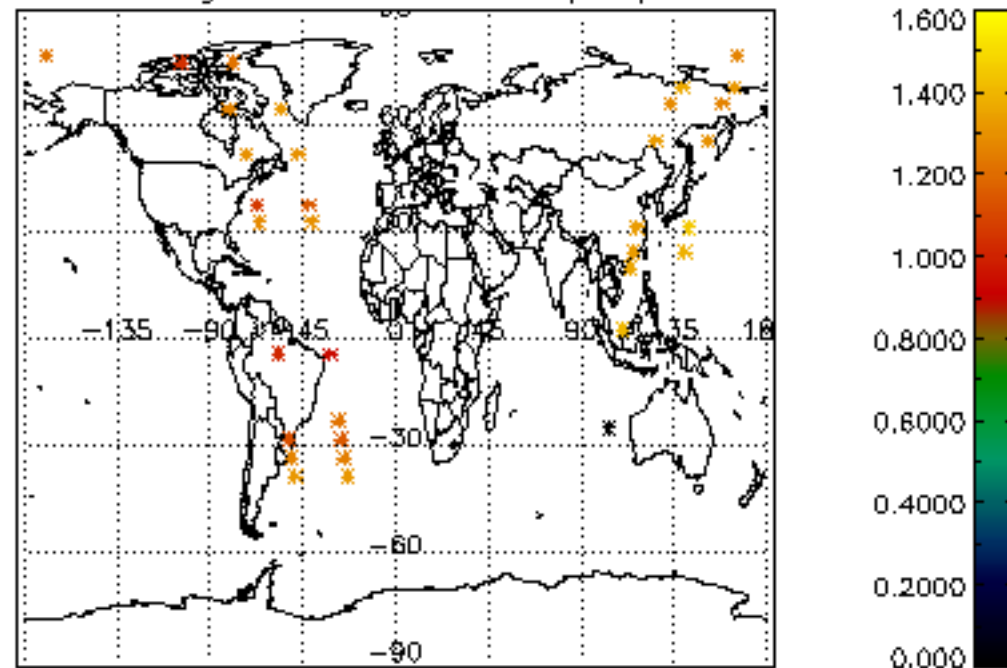




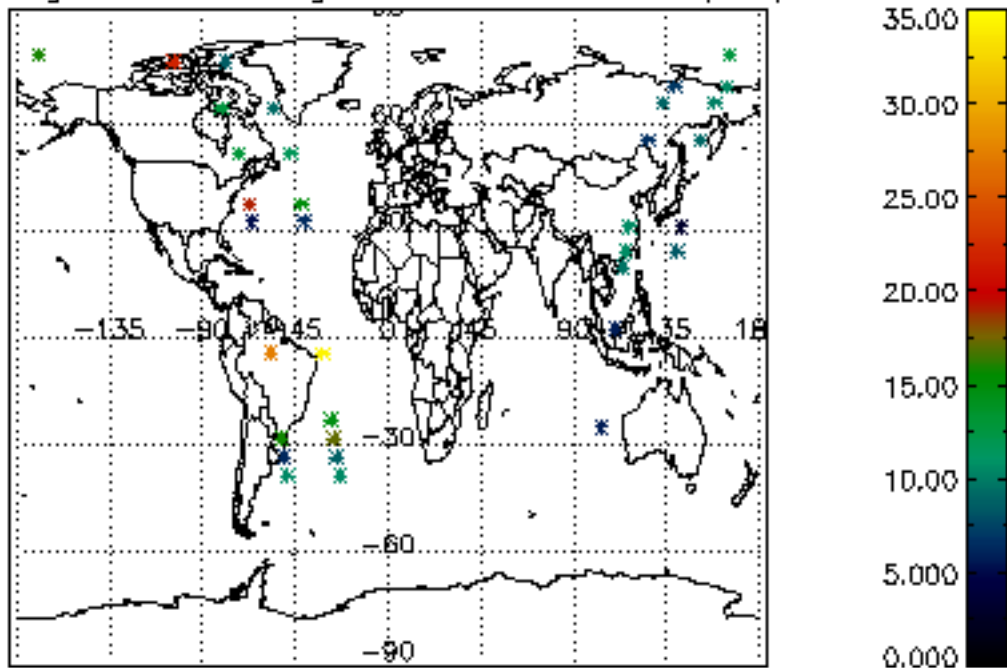
Percentage of cosmic ray hits per profile



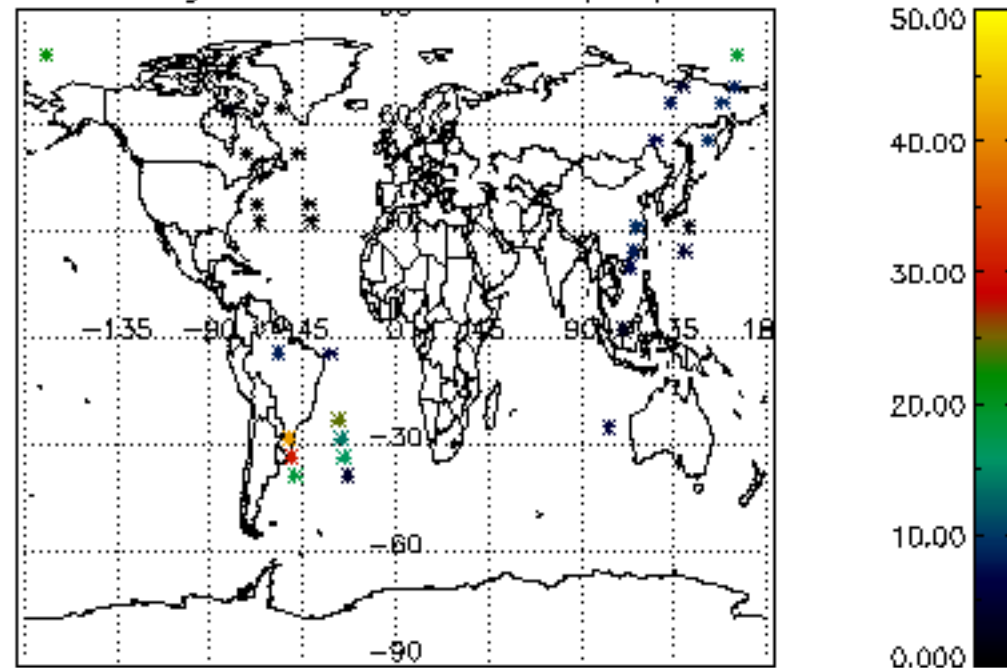
Percentage of datation errors per profile



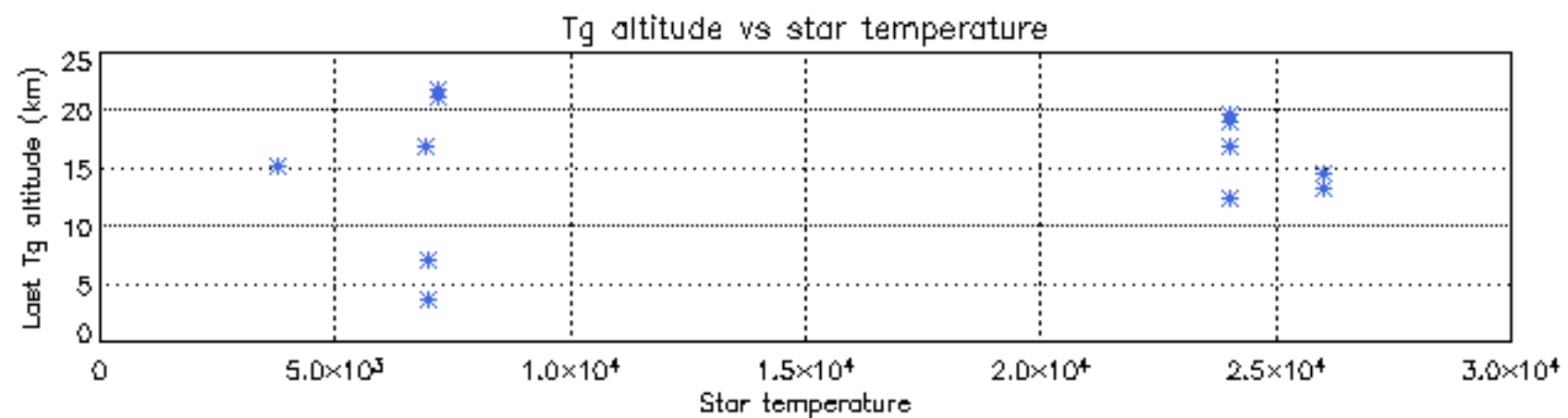
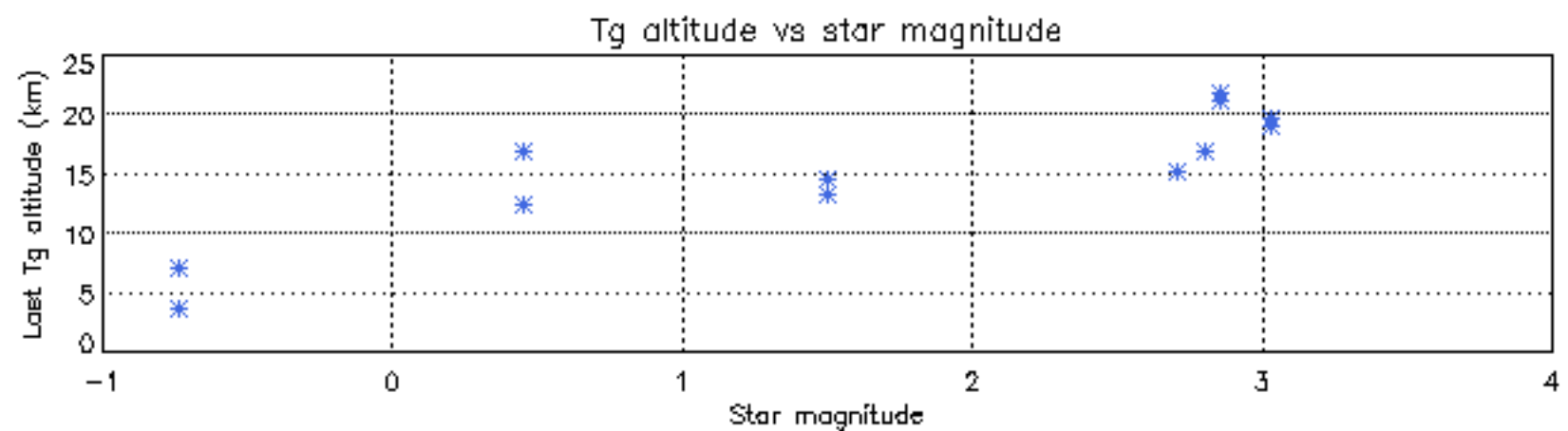
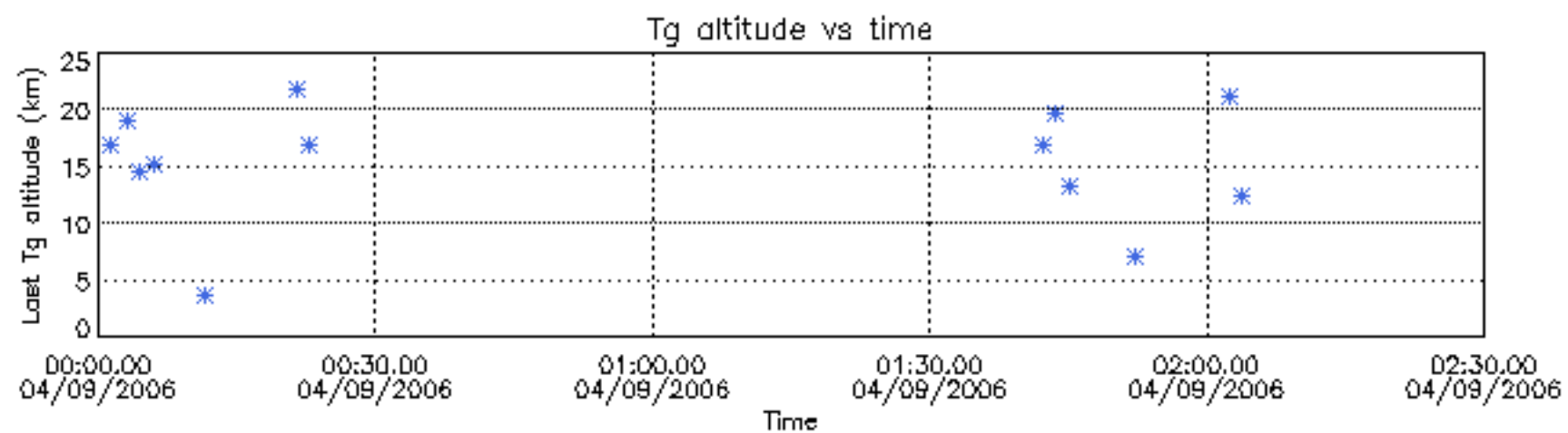
Percentage of star falling outside central band per profile



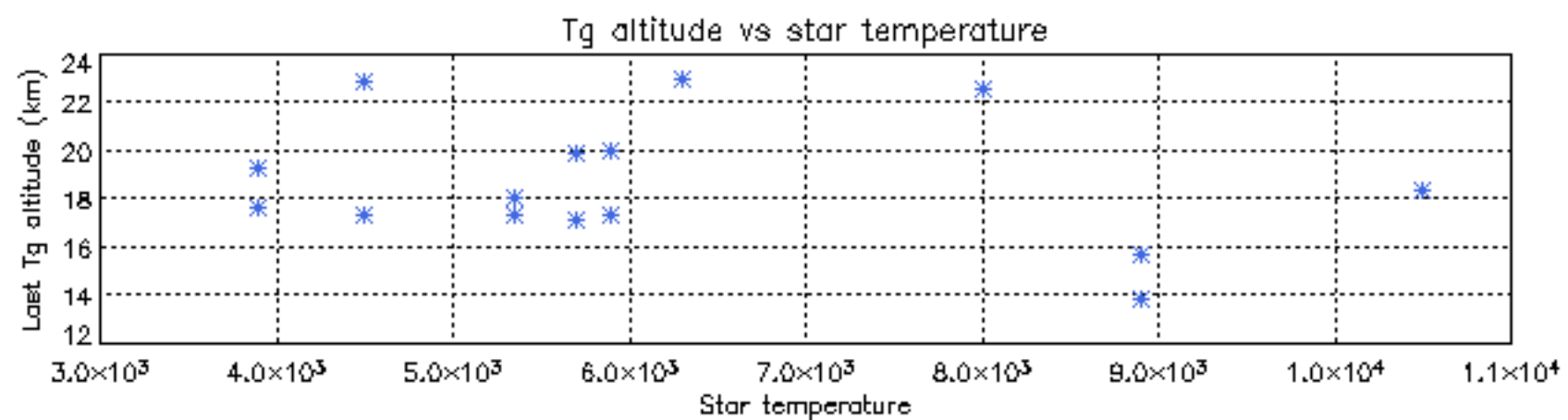
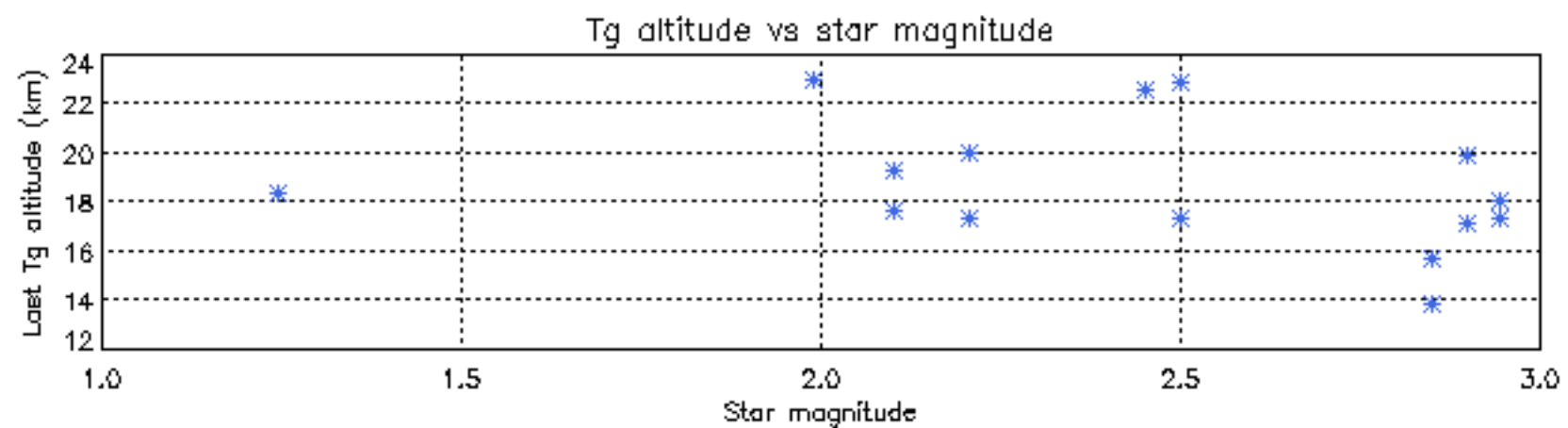
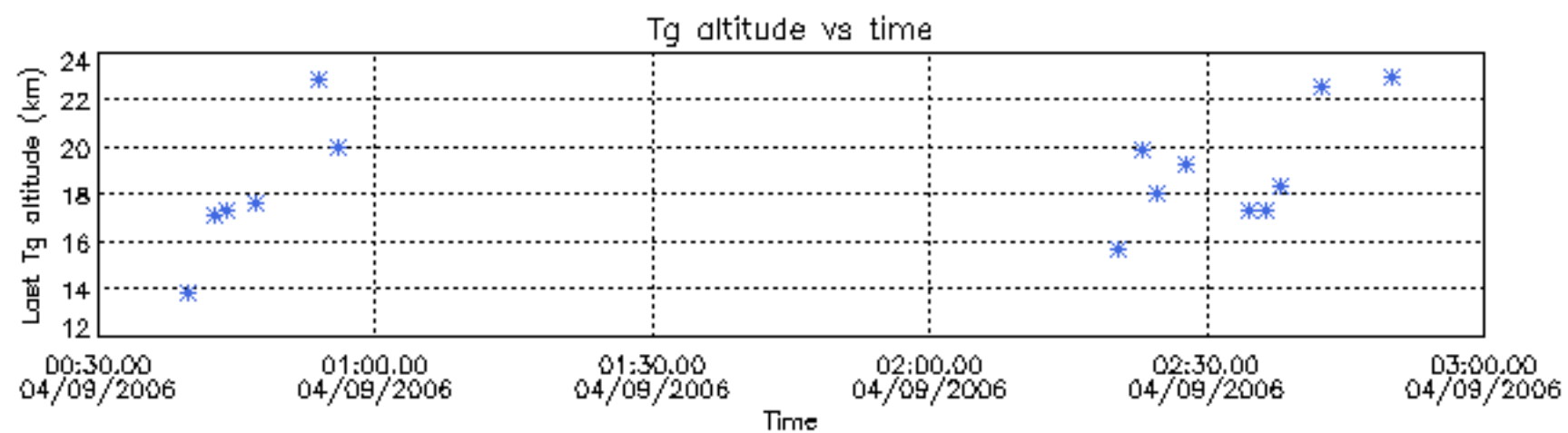
Percentage of saturation errors per profile

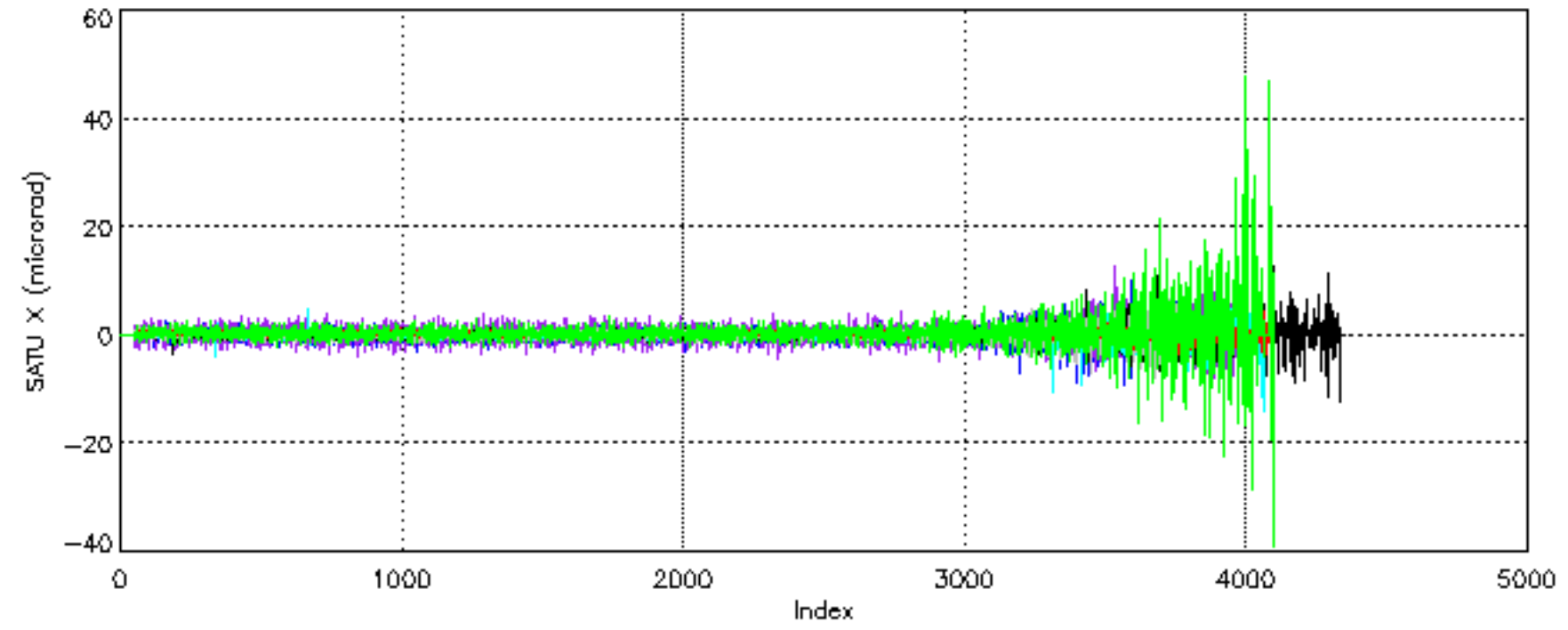


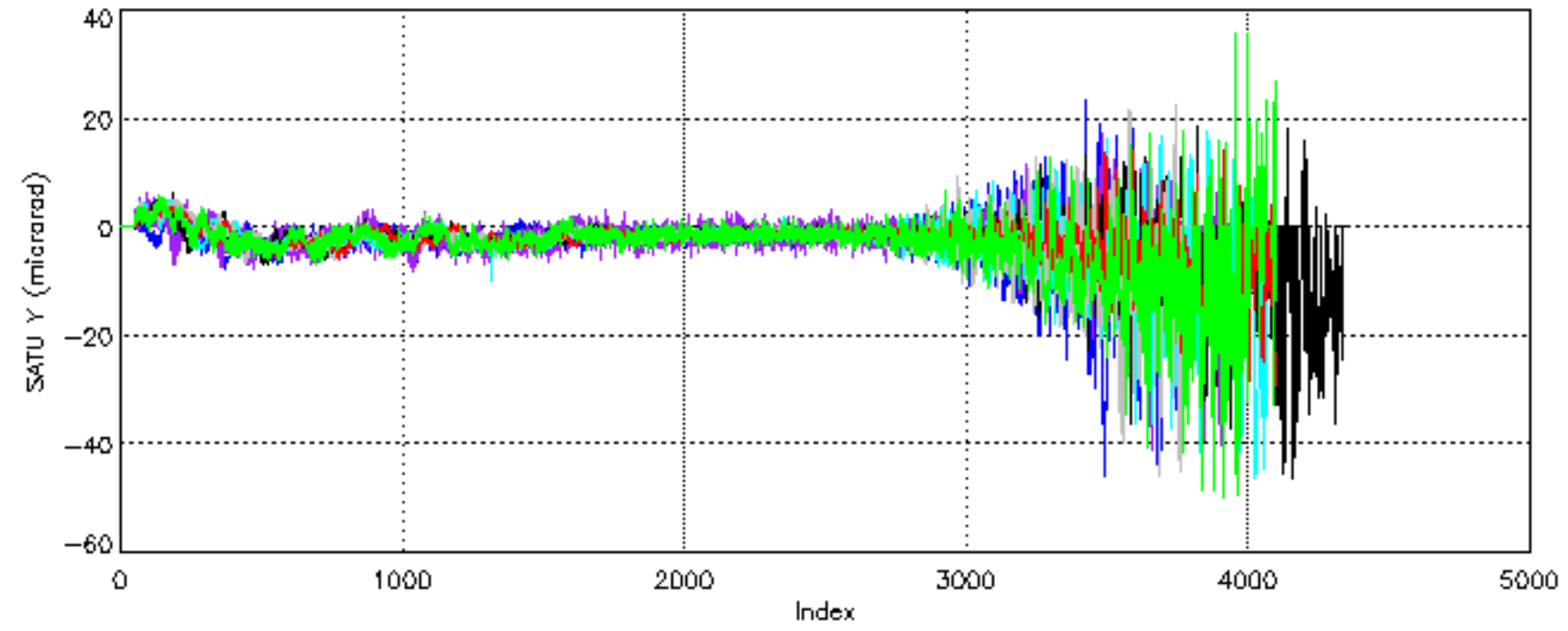
Tangent altitude at which the star is lost

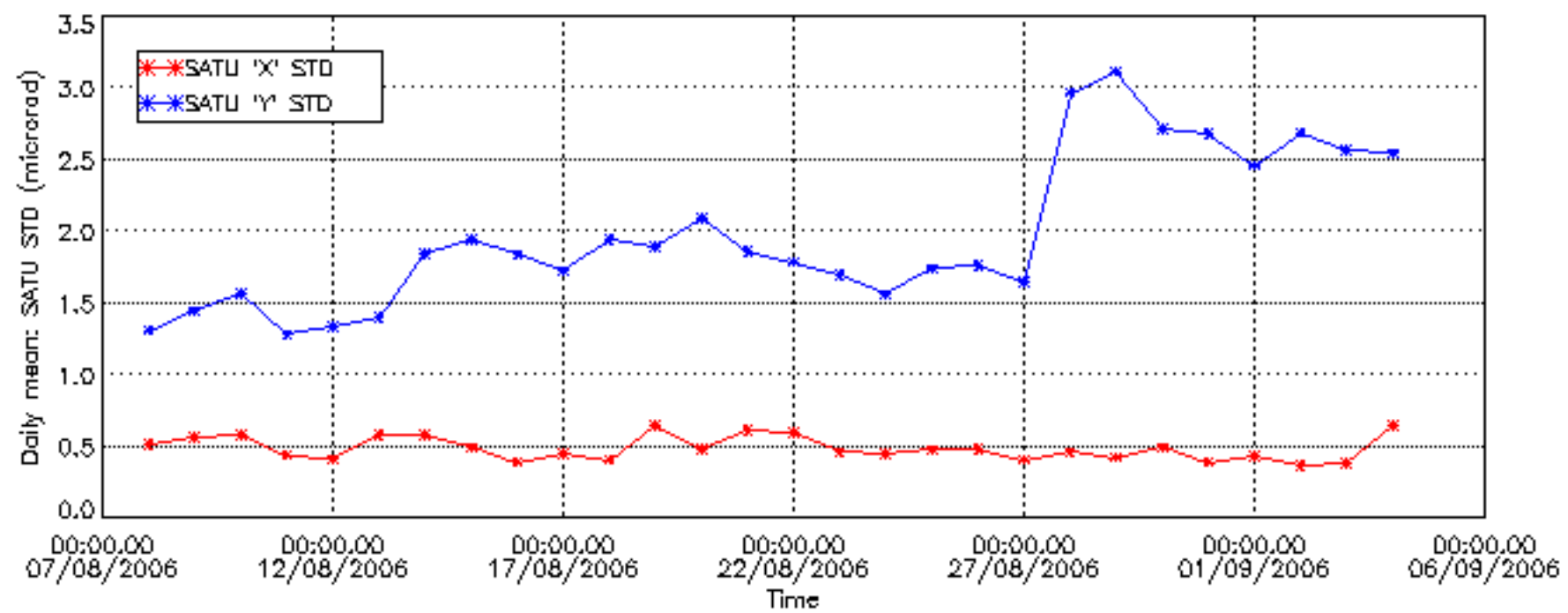


Tangent altitude at which the star is lost









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 4; -278.6; 01-SEP-2006 01:42:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23546
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 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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 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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 8; 527.5; 01-SEP-2006 03:36:04; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;23548
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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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 9; 604.8; 01-SEP-2006 05:17:57; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;23549
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 13; 1807.9; 01-SEP-2006 05:38:01; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;23549
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 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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