

GOMOS Daily Report 03-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	05SEP2006 04:31:53
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (03SEP2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (04SEP2006 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	45
Nb of prods with errors	0

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

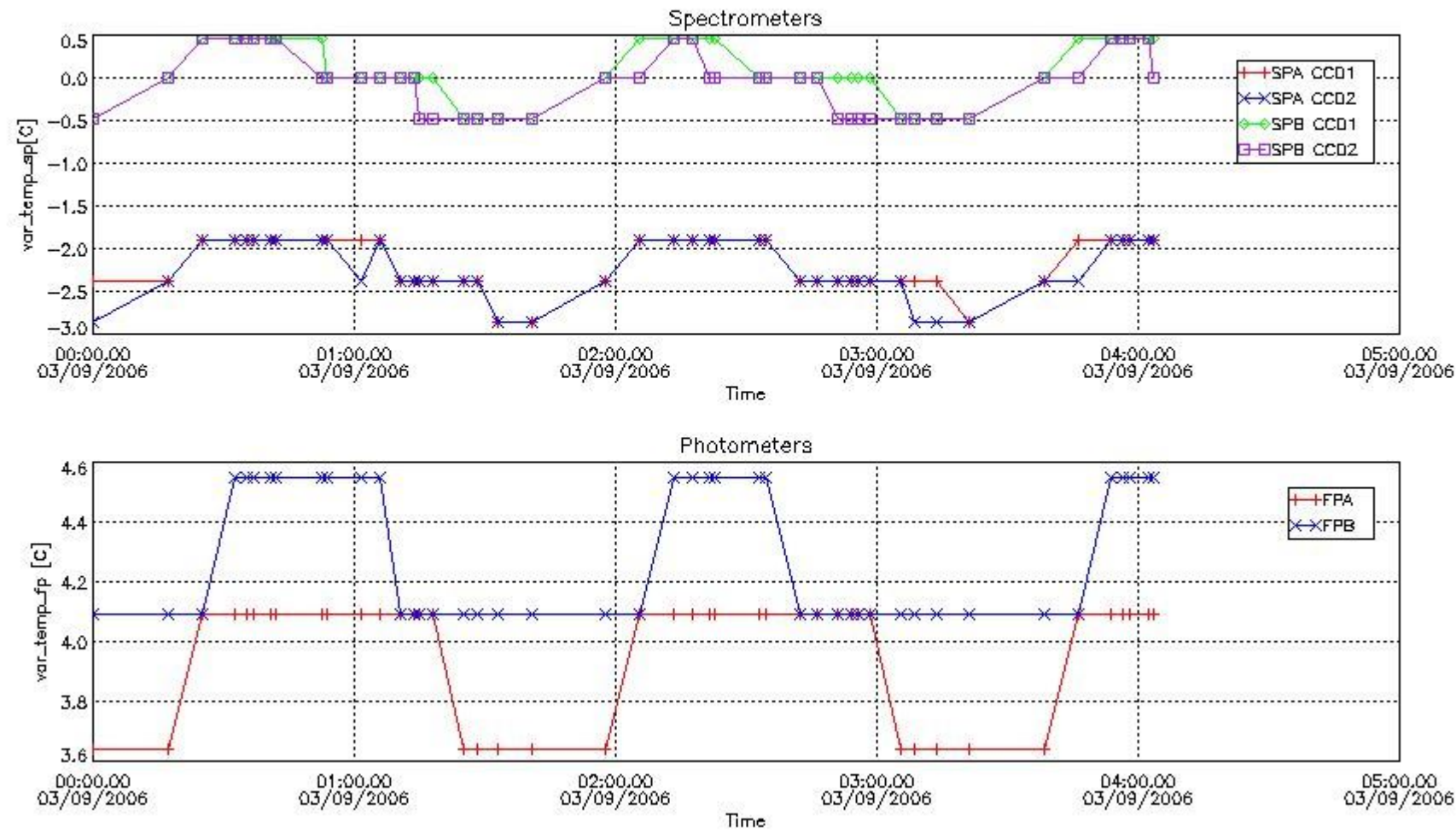
2.1 Level 0 products arrived in PCF (see template [here](#))

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_1PNPDE20060903_000005_000000362050_00474_23574_1184.N1	03-SEP-2006 00:00:05	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	23574	No
2	GOM_TRA_1PNPDE20060903_001707_000000392050_00474_23574_1185.N1	03-SEP-2006 00:17:07	Bright	39.000	24	66Alp Gem	1.5800	10200.	78	23574	No
3	GOM_TRA_1PNPDE20060903_002454_000000452050_00474_23574_1186.N1	03-SEP-2006 00:24:54	Twilight	44.500	8	10Alp CMi	0.40000	6500.0	89	23574	No
4	GOM_TRA_1PNPDE20060903_003241_000000492050_00474_23574_1167.N1	03-SEP-2006 00:32:41	Dark	48.500	1	9Alp CMa	-1.4400	11000.	97	23574	No
5	GOM_TRA_1PNPDE20060903_003524_000000442050_00474_23574_1171.N1	03-SEP-2006 00:35:24	Dark	44.000	23	21Eps CMa	1.5020	26000.	88	23574	No
6	GOM_TRA_1PNPDE20060903_003656_000000442050_00474_23574_1172.N1	03-SEP-2006 00:36:56	Dark	43.500	117	Pi Pup	2.7060	3800.0	87	23574	No
7	GOM_TRA_1PNPDE20060903_004057_000000392050_00474_23574_1173.N1	03-SEP-2006 00:40:57	Dark	39.000	161	Tau Pup	2.9310	4500.0	78	23574	No
8	GOM_TRA_1PNPDE20060903_004207_000000472050_00474_23574_1171.N1	03-SEP-2006 00:42:07	Dark	46.500	2	Alp Car	-0.73600	7000.0	93	23574	No
9	GOM_TRA_1PNPDE20060903_005228_000000402050_00475_23575_1175.N1	03-SEP-2006 00:52:28	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	23575	No
10	GOM_TRA_1PNPDE20060903_005347_000000472050_00475_23575_1176.N1	03-SEP-2006 00:53:47	Dark	46.500	9	Alp Eri	0.45300	24000.	93	23575	No
11	GOM_TRA_1PNPDE20060903_010137_000000392050_00475_23575_1177.N1	03-SEP-2006 01:01:37	Straylight	39.000	31	Alp Gru	1.7340	15200.	78	23575	No
12	GOM_TRA_1PNPDE20060903_010543_000000492050_00475_23575_1178.N1	03-SEP-2006 01:05:43	Straylight	49.000	18	24Alp PsA	1.1660	9700.0	98	23575	No
13	GOM_TRA_1PNPDE20060903_011030_000000412050_00475_23575_1179.N1	03-SEP-2006 01:10:30	Bright	40.500	142	49Del Cap	2.8500	8900.0	81	23575	No
14	GOM_TRA_1PNPDE20060903_011336_000000372050_00475_23575_1180.N1	03-SEP-2006 01:13:36	Bright	37.000	154	22Bet Aqr	2.8990	5700.0	74	23575	No
15	GOM_TRA_1PNPDE20060903_011502_000000402050_00475_23575_1181.N1	03-SEP-2006 01:15:02	Bright	39.500	162	34Alp Aqr	2.9440	5350.0	79	23575	No
16	GOM_TRA_1PNPDE20060903_011801_000000382050_00475_23575_1182.N1	03-SEP-2006 01:18:01	Bright	37.500	61	8Eps Peg	2.1000	3900.0	75	23575	No
17	GOM_TRA_1PNPDE20060903_012456_000000372050_00475_23575_1183.N1	03-SEP-2006 01:24:56	Bright	37.000	92	53Eps Cyg	2.5000	4500.0	74	23575	No
18	GOM_TRA_1PNPDE20060903_012806_000000372050_00475_23575_1184.N1	03-SEP-2006 01:28:06	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	23575	No
19	GOM_TRA_1PNPDE20060903_013300_000000332050_00475_23575_1185.N1	03-SEP-2006 01:33:00	Bright	32.500	89	5Alp Cep	2.4510	8000.0	65	23575	No
20	GOM_TRA_1PNPDE20060903_014041_000000362050_00475_23575_1186.N1	03-SEP-2006 01:40:41	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	23575	No
21	GOM_TRA_1PNPDE20060903_015743_000000382050_00475_23575_1187.N1	03-SEP-2006 01:57:43	Bright	37.500	24	66Alp Gem	1.5800	10200.	75	23575	No
22	GOM_TRA_1PNPDE20060903_020530_000000552050_00475_23575_1188.N1	03-SEP-2006 02:05:30	Twilight	54.500	8	10Alp CMi	0.40000	6500.0	109	23575	No
23	GOM_TRA_1PNPDE20060903_021318_000000542050_00475_23575_1171.N1	03-SEP-2006 02:13:18	Dark	53.500	1	9Alp CMa	-1.4400	11000.	107	23575	No
24	GOM_TRA_1PNPDE20060903_021732_000000402050_00475_23575_1172.N1	03-SEP-2006 02:17:32	Dark	39.500	117	Pi Pup	2.7060	3800.0	79	23575	No
25	GOM_TRA_1PNPDE20060903_022133_000000392050_00475_23575_1173.N1	03-SEP-2006 02:21:33	Dark	38.500	161	Tau Pup	2.9310	4500.0	77	23575	No
26	GOM_TRA_1PNPDE20060903_022243_000000542050_00475_23575_1174.N1	03-SEP-2006 02:22:43	Dark	54.000	2	Alp Car	-0.73600	7000.0	108	23575	No
27	GOM_TRA_1PNPDE20060903_023305_000000402050_00476_23576_1175.N1	03-SEP-2006 02:33:05	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	23576	No
28	GOM_TRA_1PNPDE20060903_023423_000000472050_00476_23576_1176.N1	03-SEP-2006 02:34:23	Dark	47.000	9	Alp Eri	0.45300	24000.	94	23576	No
29	GOM_TRA_1PNPDE20060903_024214_000000412050_00476_23576_1177.N1	03-SEP-2006 02:42:14	Straylight	41.000	31	Alp Gru	1.7340	15200.	82	23576	No
30	GOM_TRA_1PNPDE20060903_024619_000000472050_00476_23576_1178.N1	03-SEP-2006 02:46:19	Straylight	47.000	18	24Alp PsA	1.1660	9700.0	94	23576	No
31	GOM_TRA_1PNPDE20060903_025105_000000432050_00476_23576_1179.N1	03-SEP-2006 02:51:05	Bright	43.000	142	49Del Cap	2.8500	8900.0	86	23576	No
32	GOM_TRA_1PNPDE20060903_025413_000000382050_00476_23576_1180.N1	03-SEP-2006 02:54:13	Bright	37.500	154	22Bet Aqr	2.8990	5700.0	75	23576	No
33	GOM_TRA_1PNPDE20060903_025538_000000392050_00476_23576_1181.N1	03-SEP-2006 02:55:38	Bright	39.000	162	34Alp Aqr	2.9440	5350.0	78	23576	No
34	GOM_TRA_1PNPDE20060903_025837_000000382050_00476_23576_1182.N1	03-SEP-2006 02:58:37	Bright	38.000	61	8Eps Peg	2.1000	3900.0	76	23576	No
35	GOM_TRA_1PNPDE20060903_030532_000000372050_00476_23576_1183.N1	03-SEP-2006 03:05:32	Bright	36.500	92	53Eps Cyg	2.5000	4500.0	73	23576	No
36	GOM_TRA_1PNPDE20060903_030842_000000362050_00476_23576_1184.N1	03-SEP-2006 03:08:42	Bright	35.500	19	50Alp Cyg	1.2460	10500.	71	23576	No
37	GOM_TRA_1PNPDE20060903_031336_000000372050_00476_23576_1185.N1	03-SEP-2006 03:13:36	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	23576	No
38	GOM_TRA_1PNPDE20060903_032117_000000362050_00476_23576_1186.N1	03-SEP-2006 03:21:17	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	23576	No
39	GOM_TRA_1PNPDE20060903_033819_000000552050_00476_23576_1178.N1	03-SEP-2006 03:38:19	Bright	55.000	24	66Alp Gem	1.5800	10200.	110	23576	No
40	GOM_TRA_1PNPDE20060903_034607_000000522050_00476_23576_1179.N1	03-SEP-2006 03:46:07	Twilight	52.000	8	10Alp CMi	0.40000	6500.0	104	23576	No
41	GOM_TRA_1PNPDE20060903_035354_000000582050_00476_23576_1180.N1	03-SEP-2006 03:53:54	Dark	57.500	1	9Alp CMa	-1.4400	11000.	115	23576	No
42	GOM_TRA_1PNPDE20060903_035637_000000432050_00476_23576_1181.N1	03-SEP-2006 03:56:37	Dark	42.500	23	21Eps CMa	1.5020	26000.	85	23576	No

43	GOM_TRA_1PNPDE20060903_035808_000000412050_00476_23576_1182.N1	03-SEP-2006 03:58:08	Dark	41.000	117	Pi Pup	2.7060	3800.0	82	23576	No
44	GOM_TRA_1PNPDE20060903_040210_000000402050_00476_23576_1183.N1	03-SEP-2006 04:02:10	Dark	40.000	161	Tau Pup	2.9310	4500.0	80	23576	No
45	GOM_TRA_1PNPDE20060903_040320_000000452050_00476_23576_1184.N1	03-SEP-2006 04:03:20	Dark	44.500	2	Alp Car	-0.73600	7000.0	89	23576	No

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



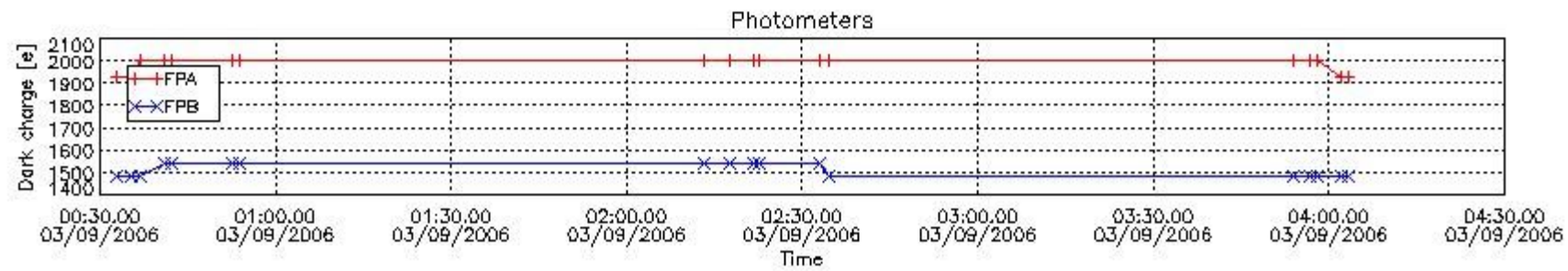
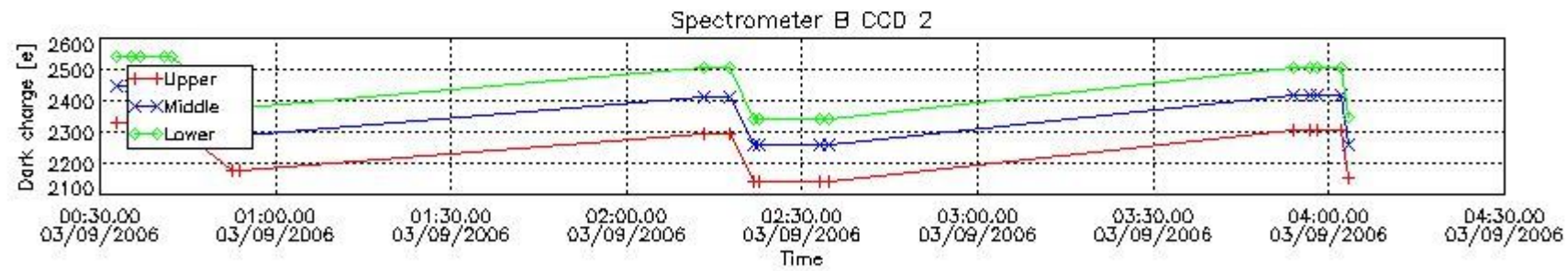
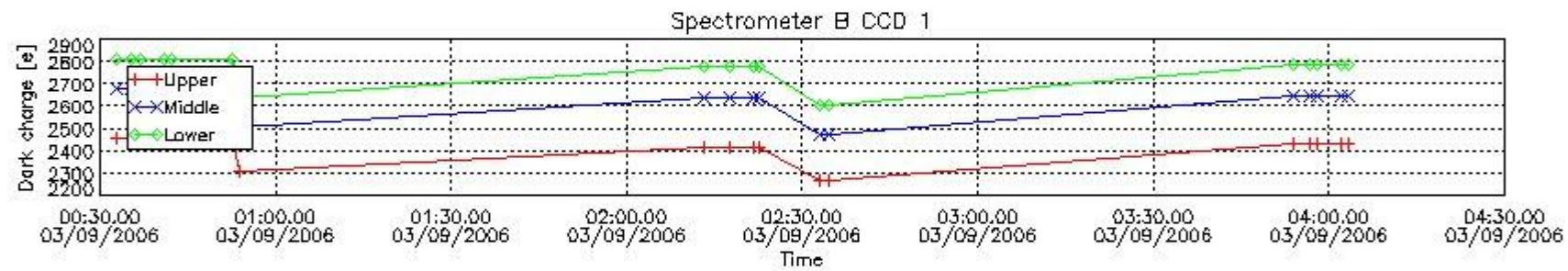
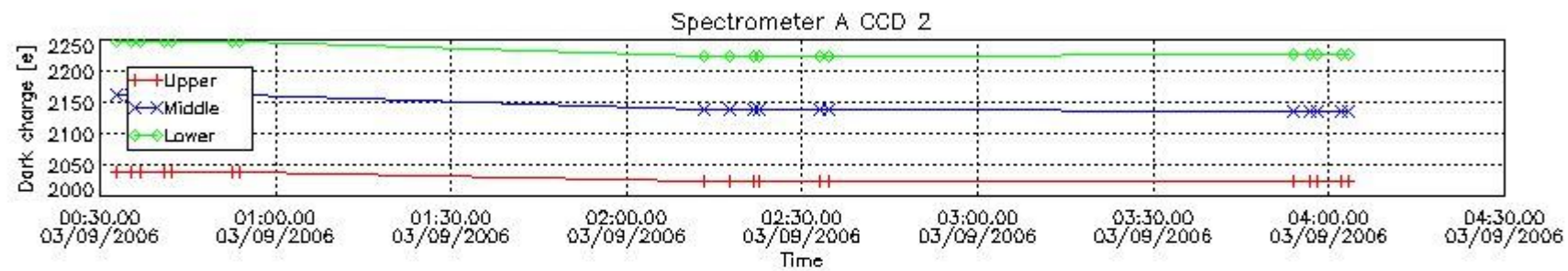
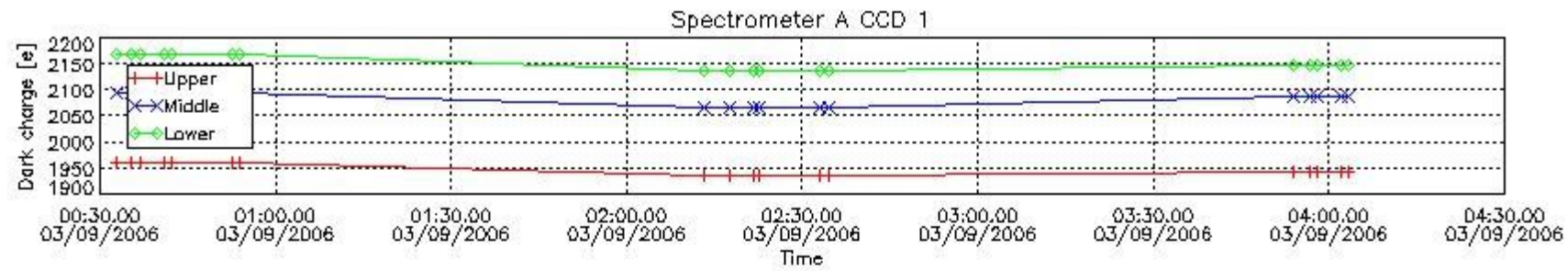
4. Overview of dark signal processing per product

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



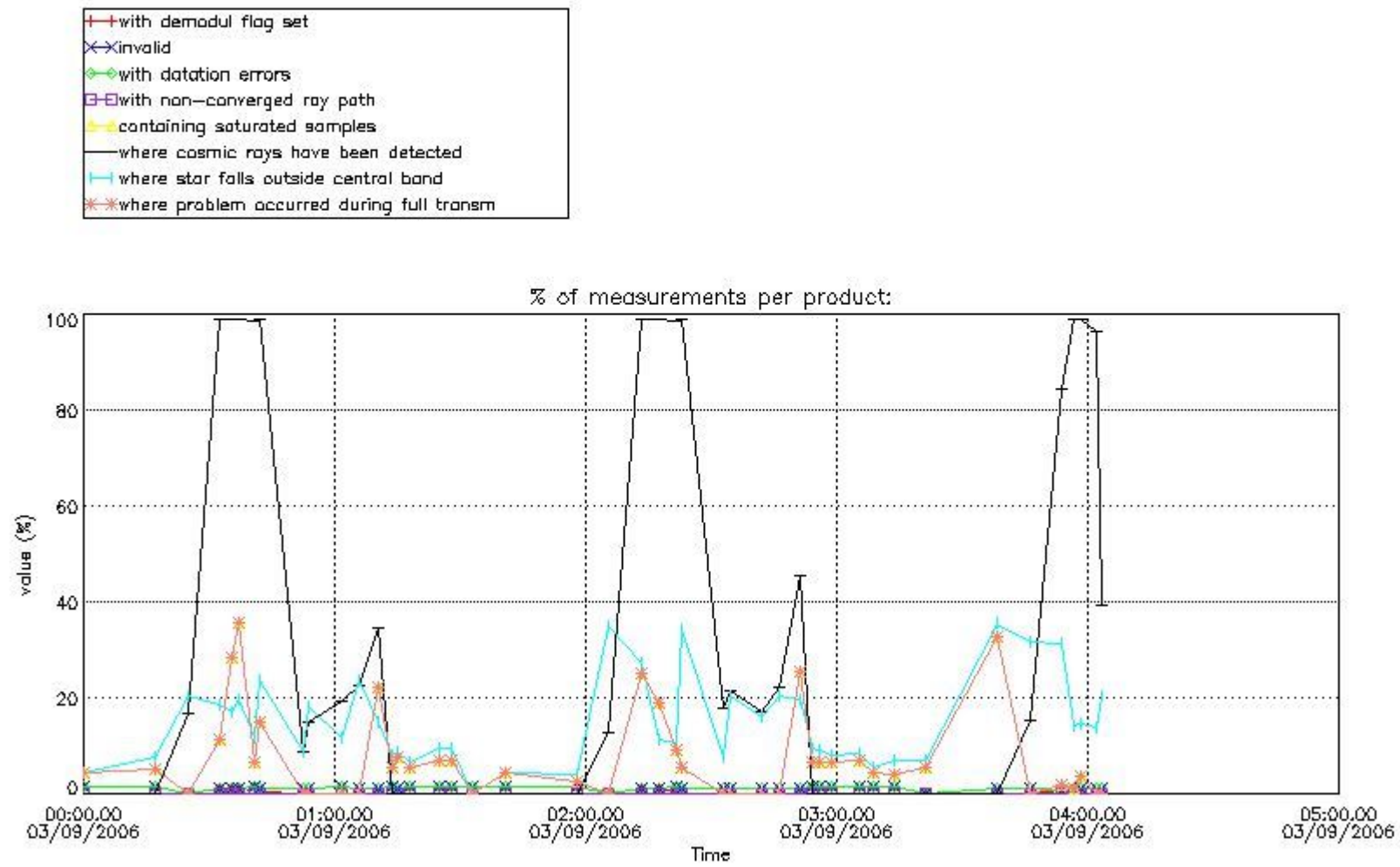
5. Demodulation flag and quality information monitoring

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.

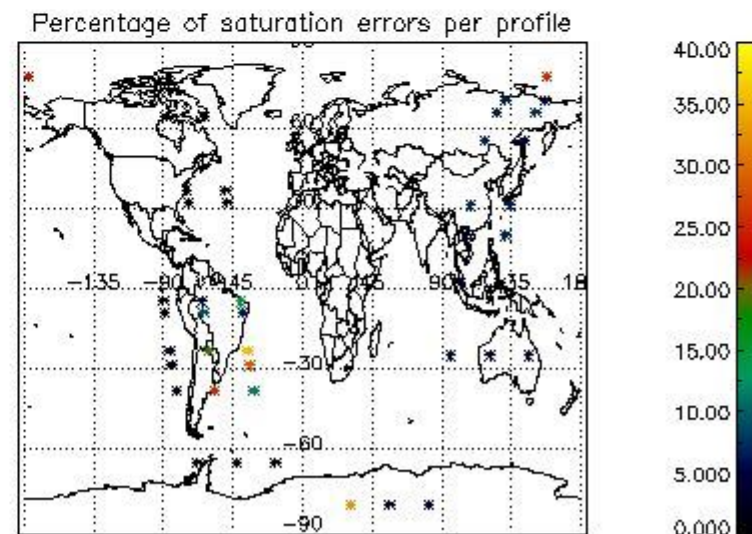
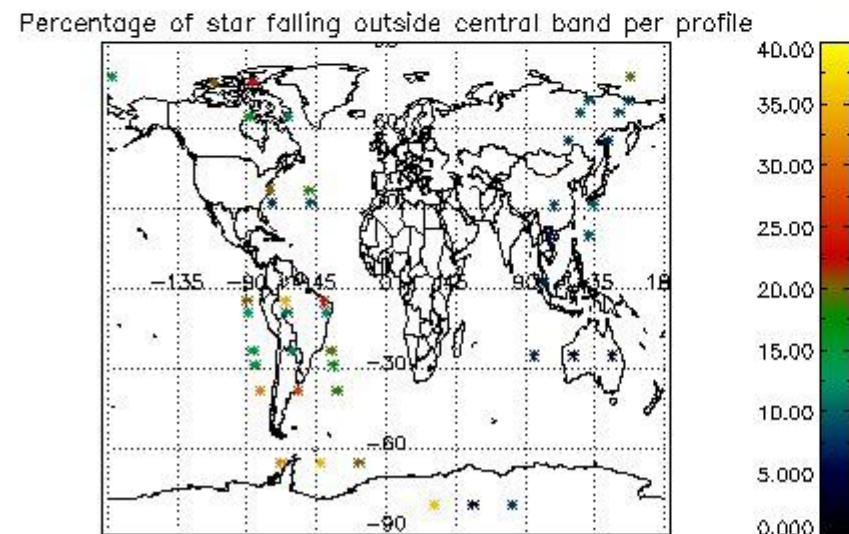
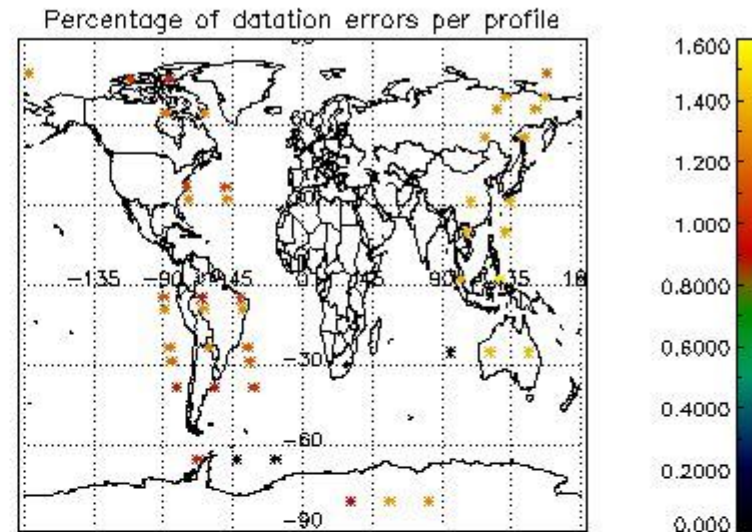
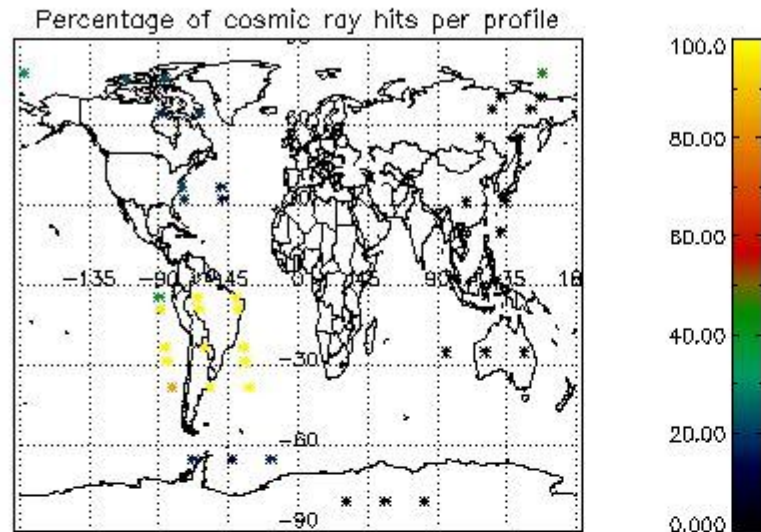
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	26.6667 %
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)



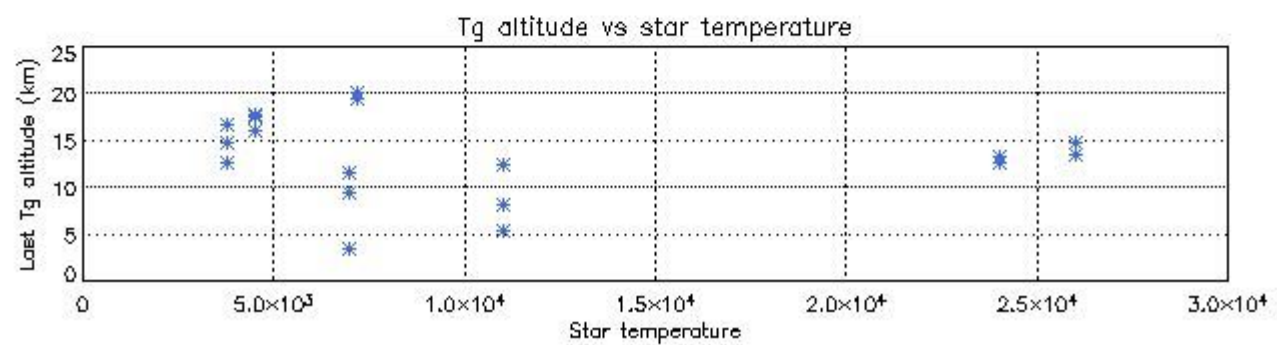
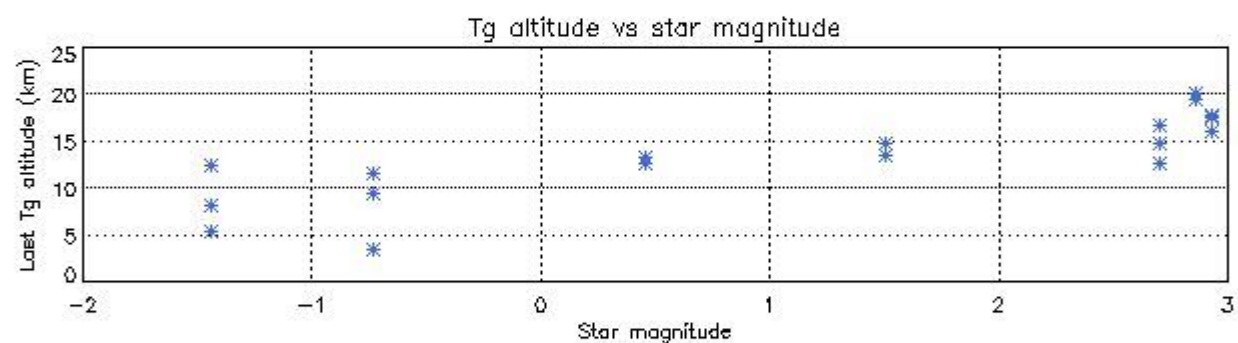
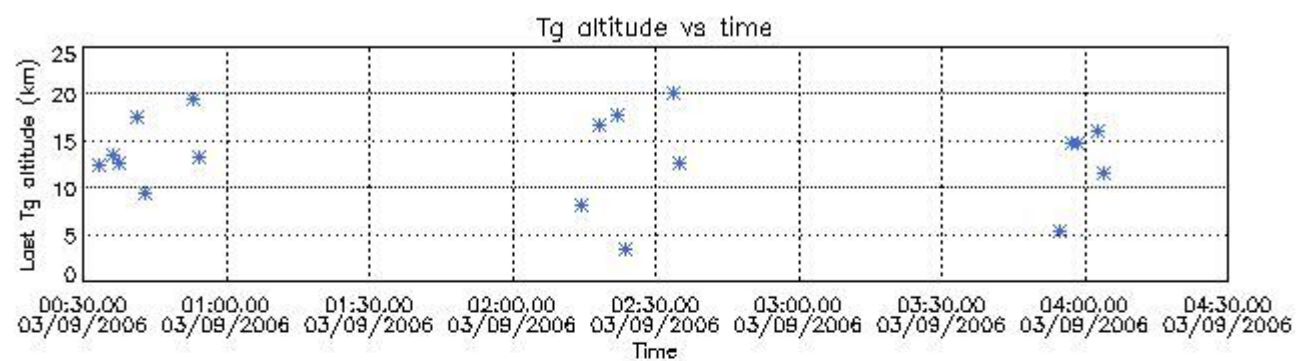
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.311	18.913	7.4616
St. deviation:	4.5304	4.8074	3.5960
Maximum:	20.137	29.903	11.510
Minimum:	3.5008	4.5447	4.6394
Number of data:	18.000	20.000	3.0000

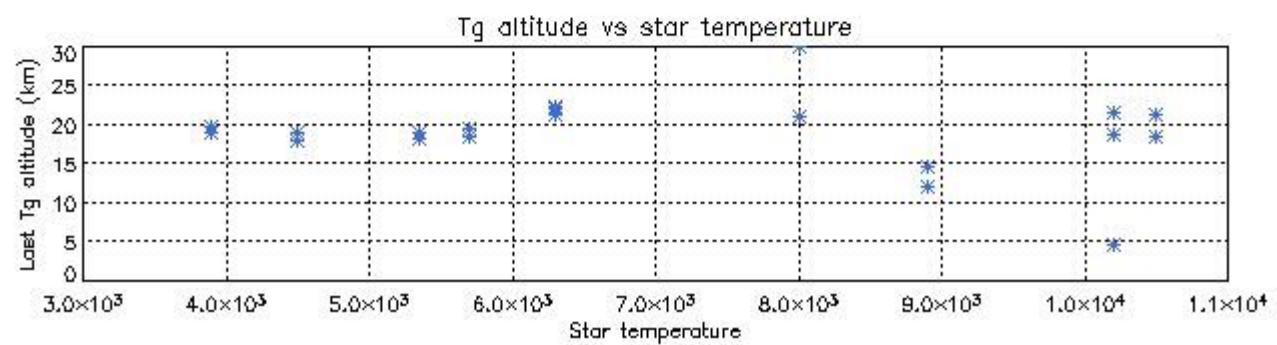
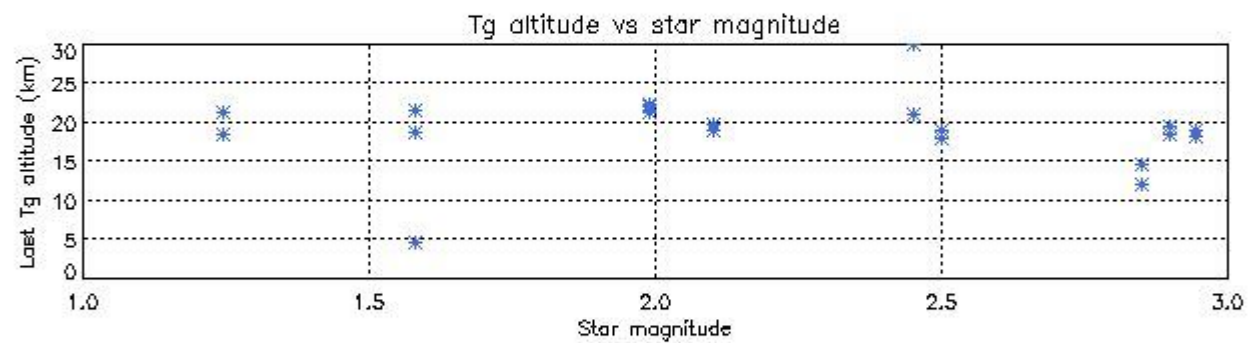
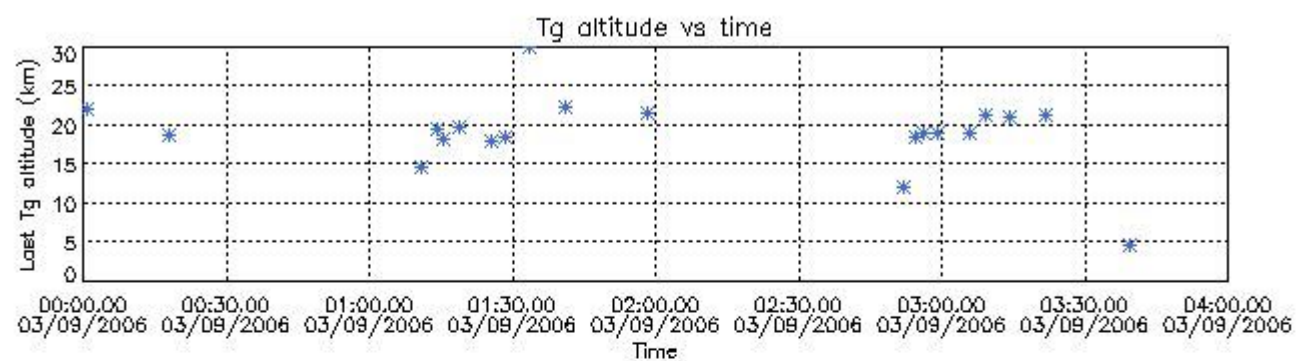
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



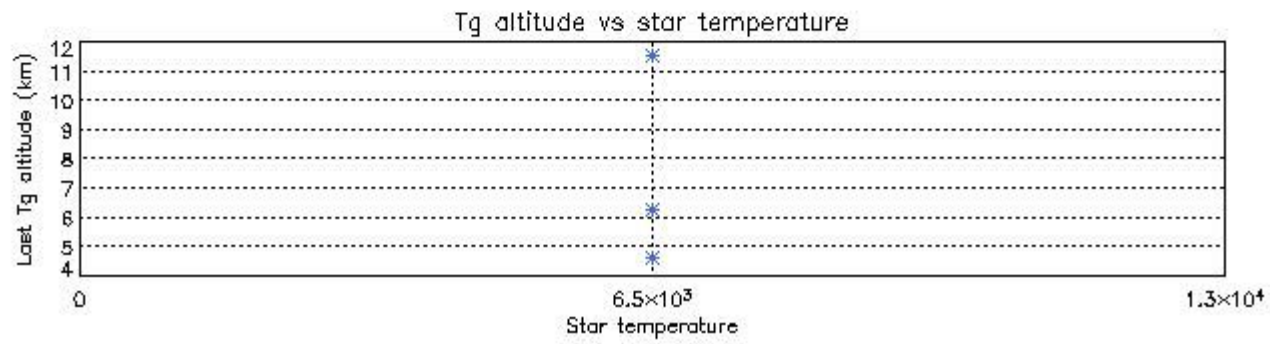
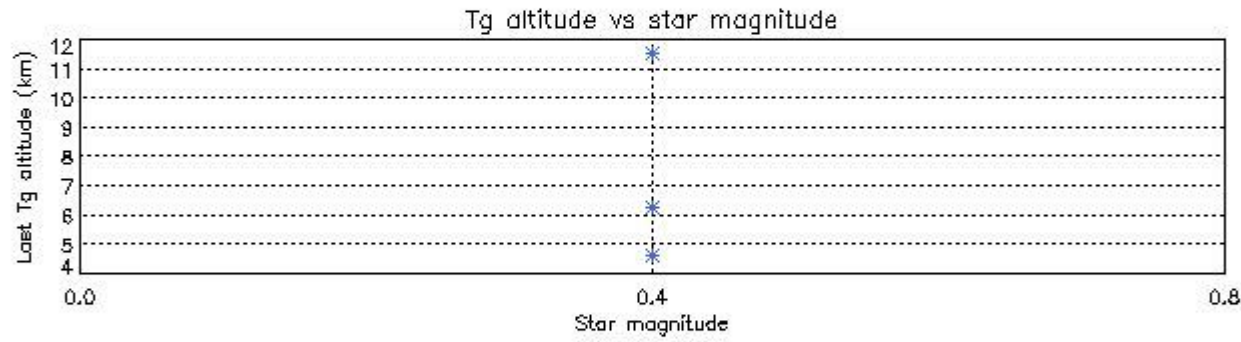
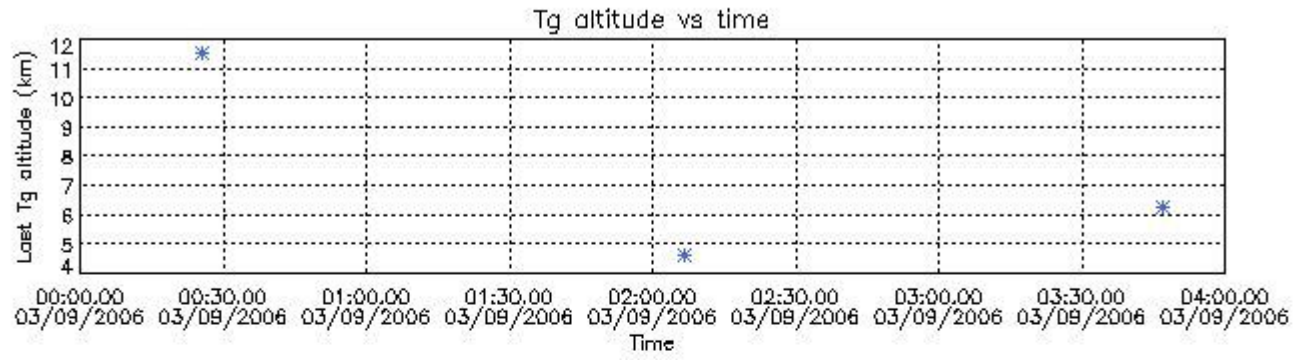
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

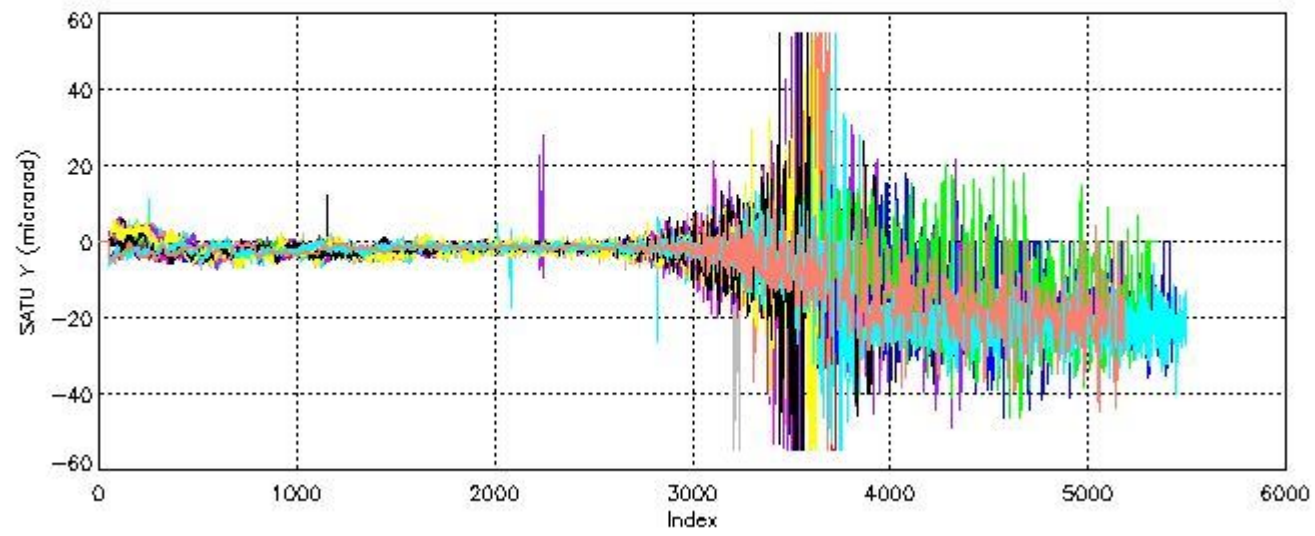
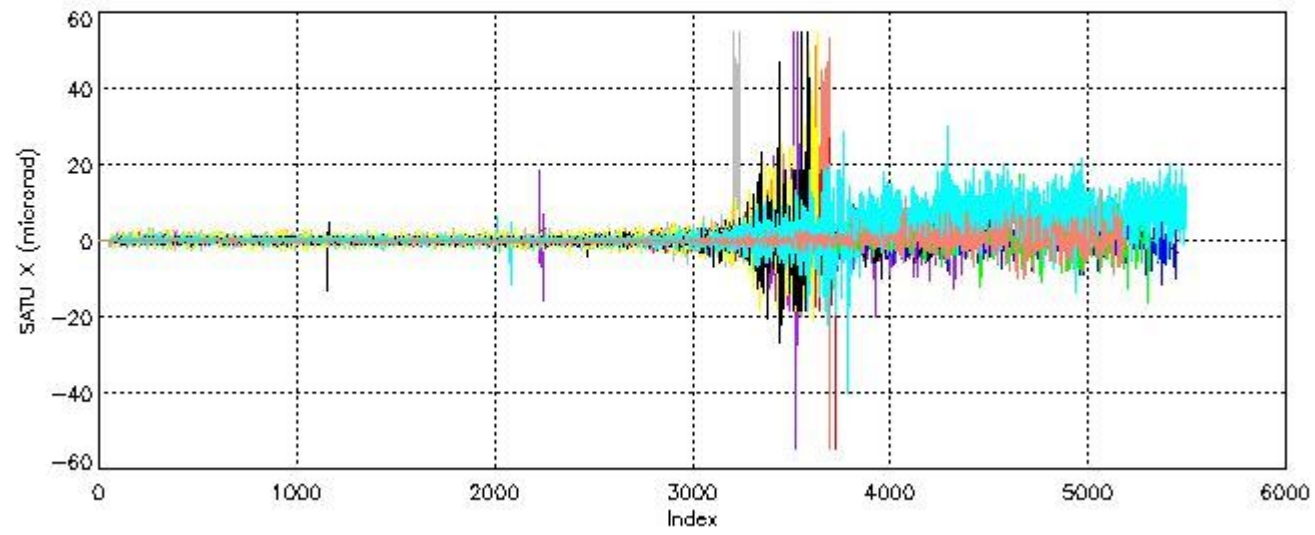


7. Star Acquisition and Tracking Unit (SATU)

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.

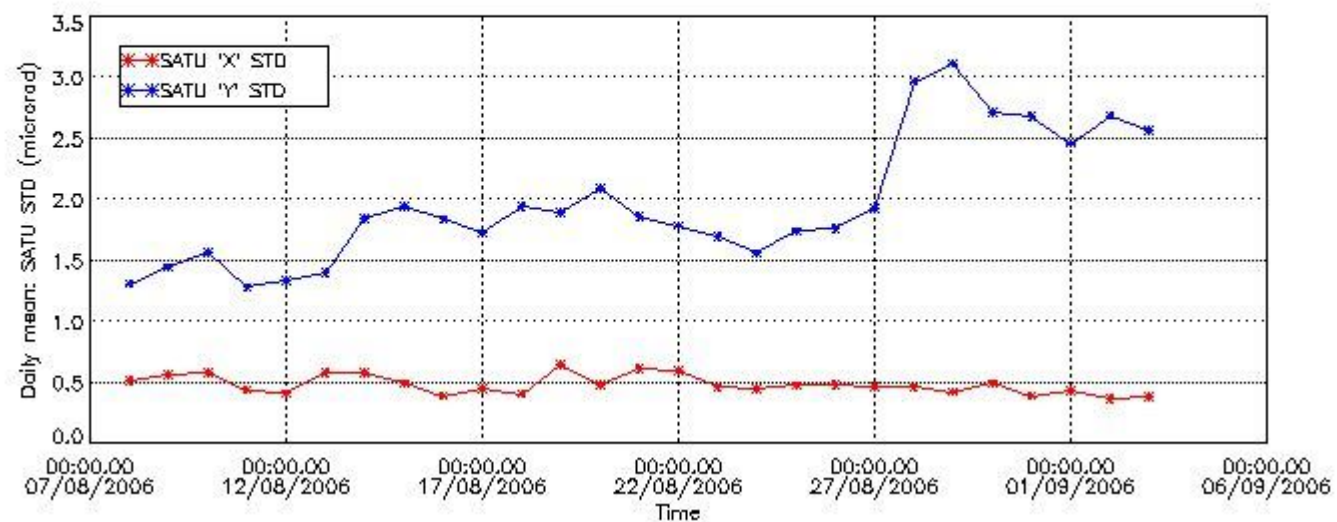
7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.15578	-0.95154	0.10575	-1.3162
St. deviation:	0.37401	2.5676	0.62180	2.3628
Maximum:	6.2000	10.800	3.6000	7.6000
Minimum:	-0.20000	-6.2000	-1.7000	-6.3000

Number of data:	16950.	16950.	16950.	16950.
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7.2.2 Trend of daily SATU NEA St. deviation during the last two months (dark limb)

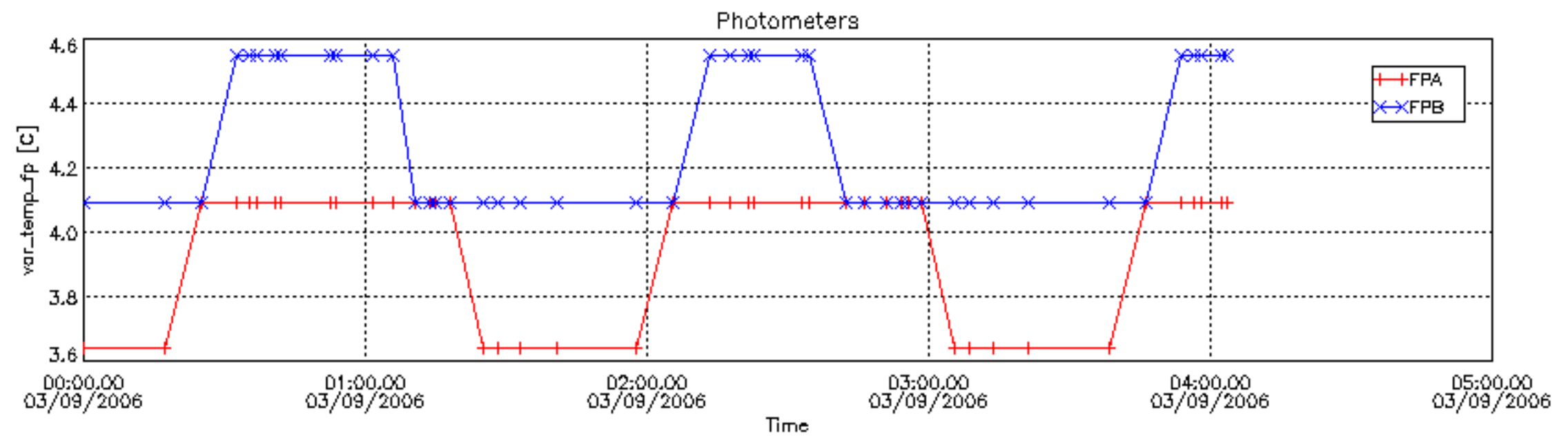
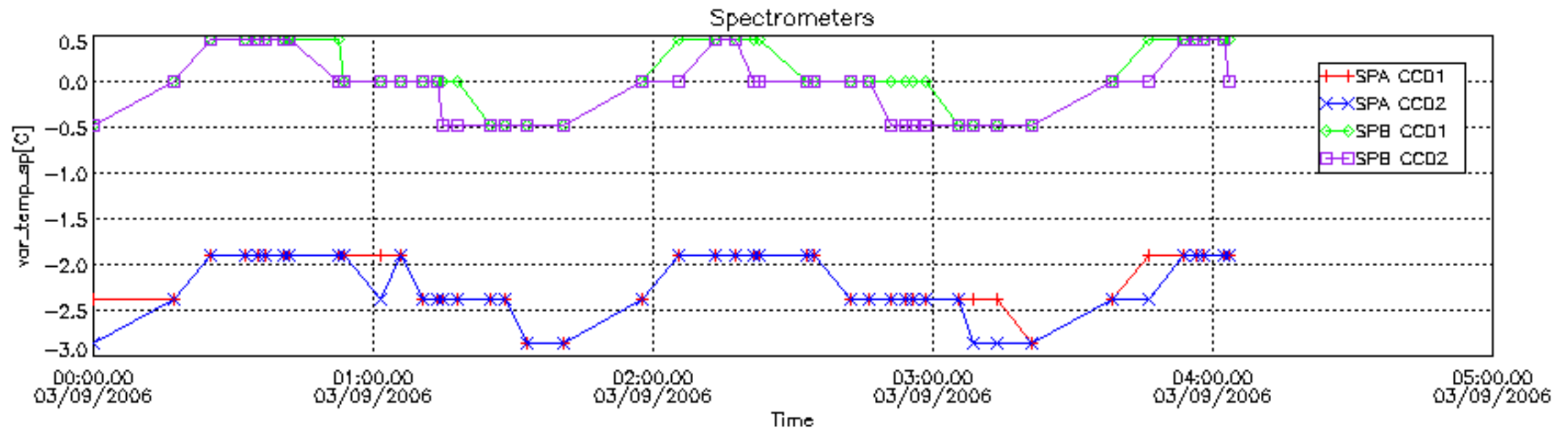
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

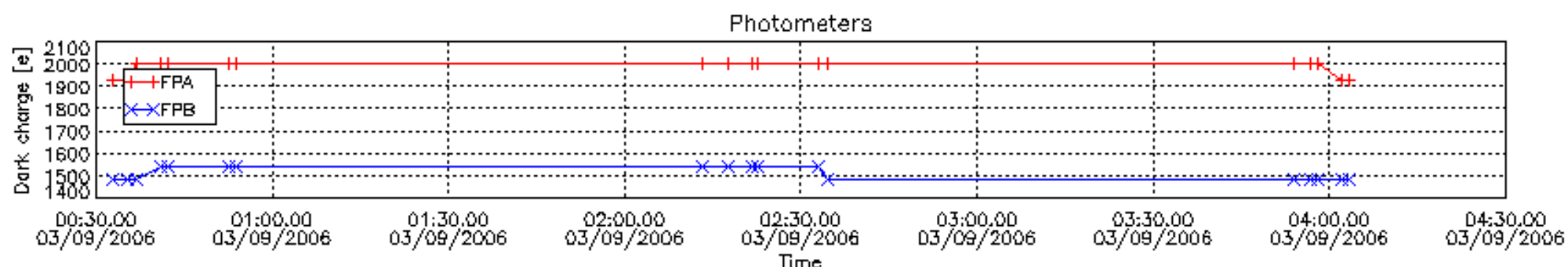
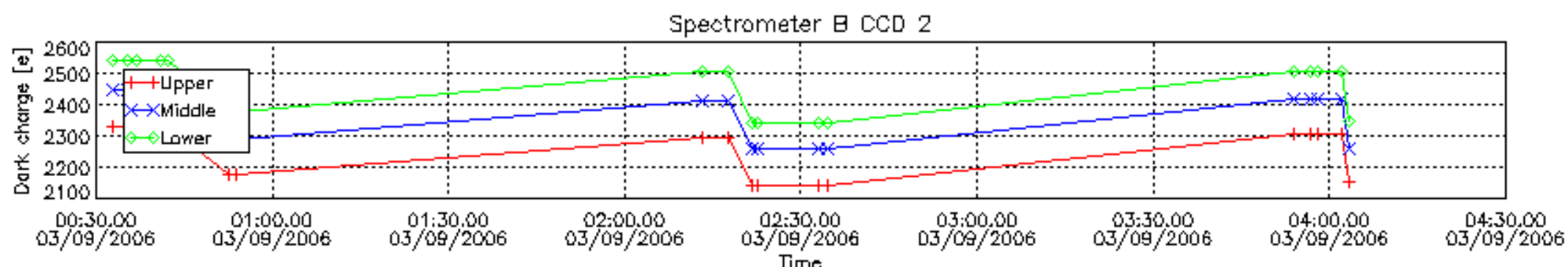
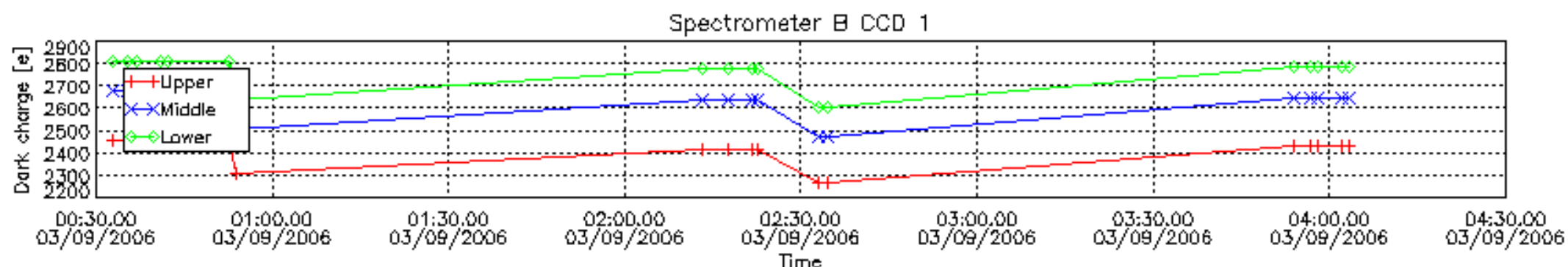
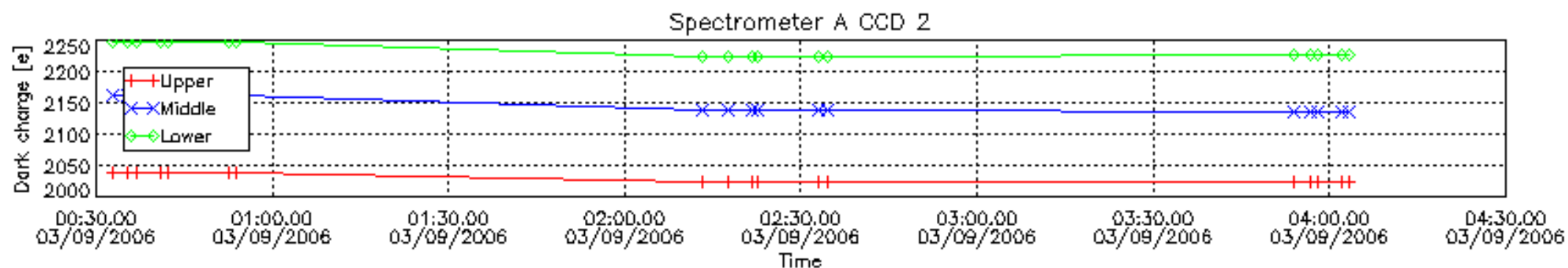
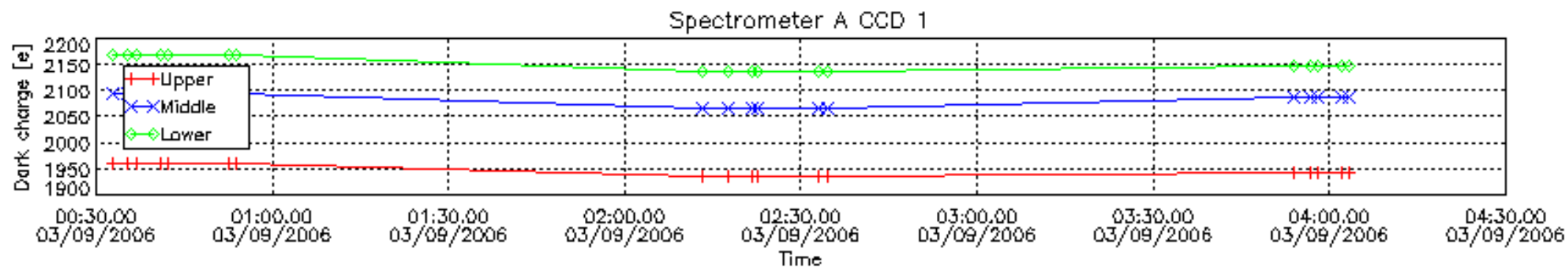


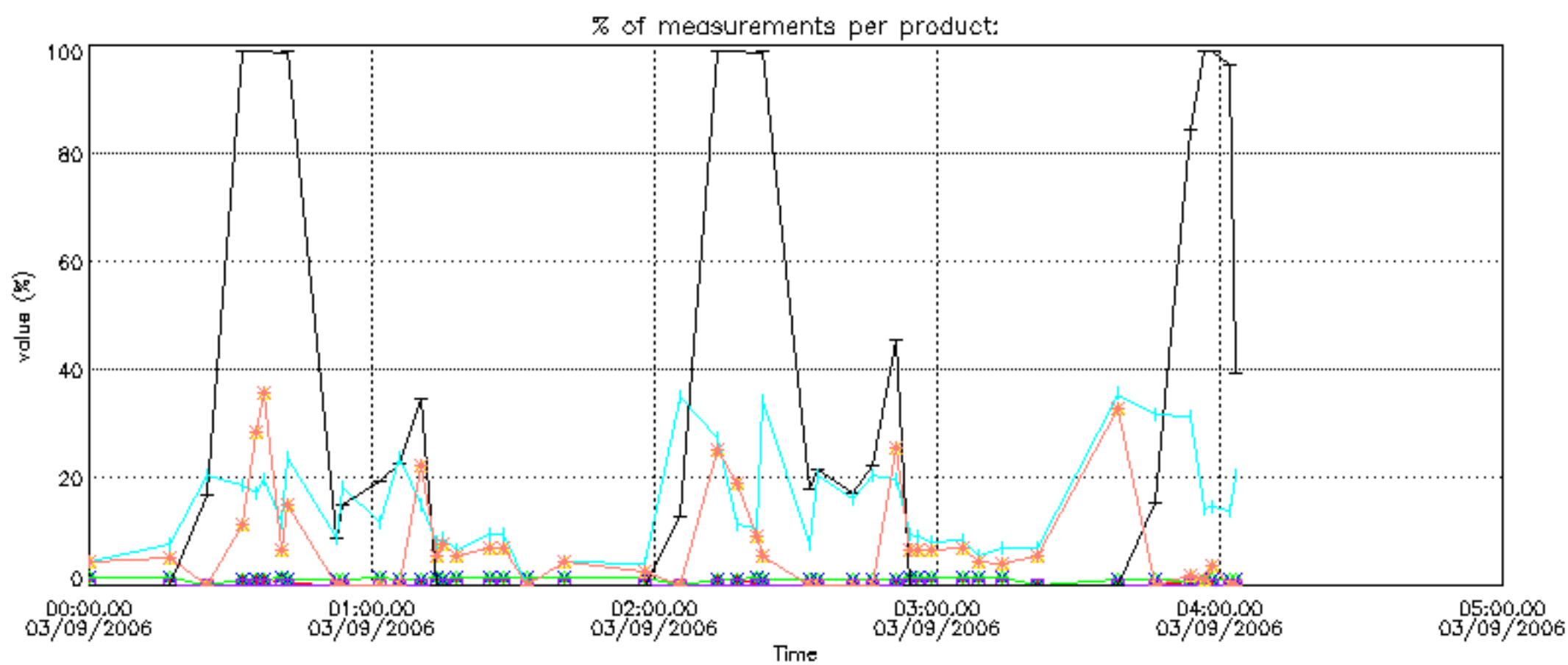
8. Auxiliary Data Files used for the production reported in section 2.2

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.

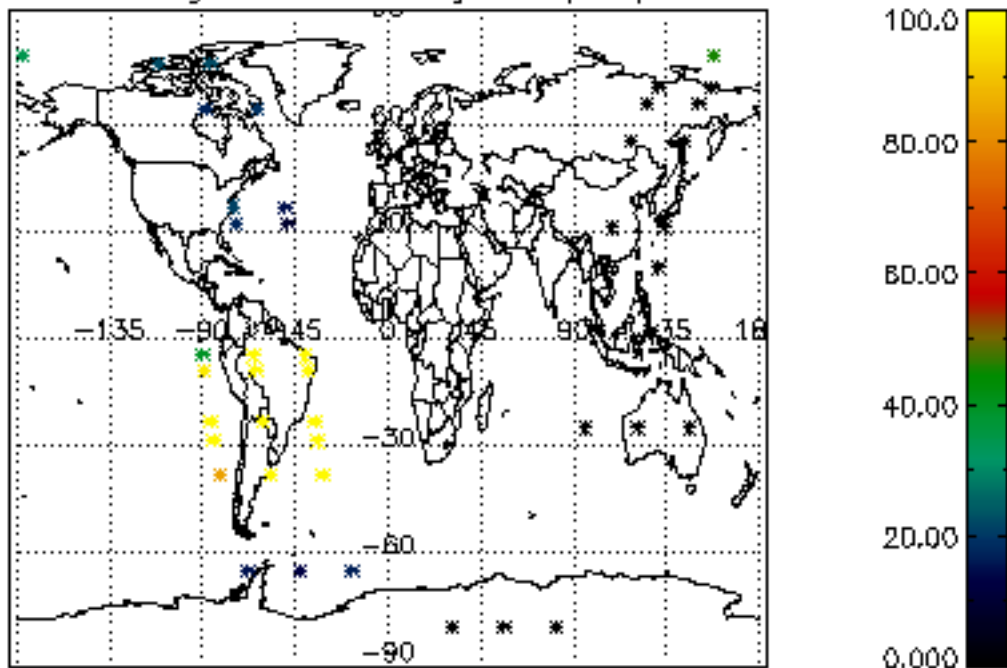
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060825_091604_20060823_000000_20100101_000000	1	03-SEP-2006 00:00:05
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	03-SEP-2006 00:00:05
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	03-SEP-2006 00:00:05
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	03-SEP-2006 00:00:05
ECMWF_FILE	AUX_ECA_AXNECM20060903_060849_20060902_210000_20060903_090000	1	03-SEP-2006 00:00:05
ECMWF_FILE	AUX_ECF_AXNECM20060902_062850_20060902_210000_20060903_090000	4	03-SEP-2006 00:32:41
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ECMWF_FILE	AUX_ECF_AXNECM20060902_062850_20060902_210000_20060903_090000	8	03-SEP-2006 00:42:07
ECMWF_FILE	AUX_ECA_AXNECM20060903_060849_20060902_210000_20060903_090000	9	03-SEP-2006 00:52:28
ECMWF_FILE	AUX_ECF_AXNECM20060902_181828_20060903_030000_20060903_150000	39	03-SEP-2006 03:38:19
OPTIONAL_ECMWF_FILE	MISSING	1	03-SEP-2006 00:00:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060902_224517_000057382050_00473_23573_0479.N1	1	03-SEP-2006 00:00:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060903_002614_000057382050_00474_23574_0480.N1	4	03-SEP-2006 00:32:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060903_020711_000041442050_00475_23575_0481.N1	23	03-SEP-2006 02:13:18
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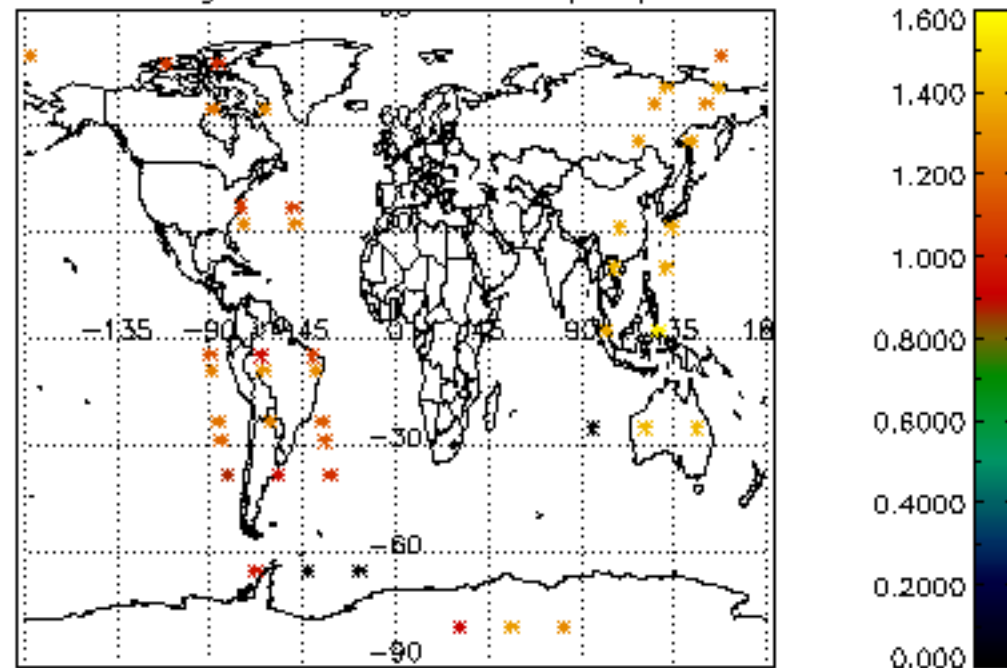




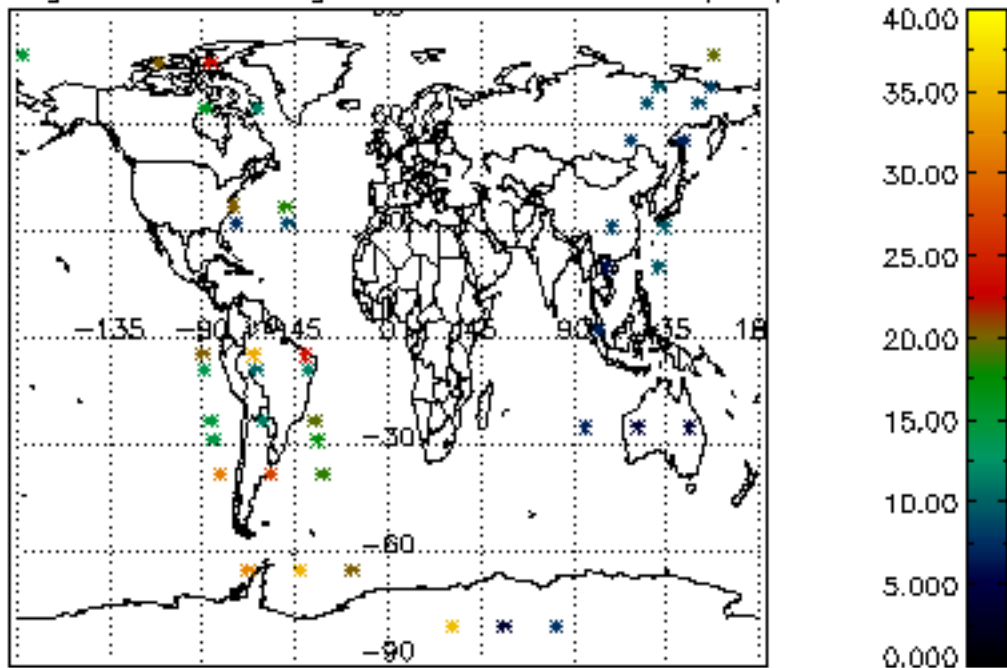
Percentage of cosmic ray hits per profile



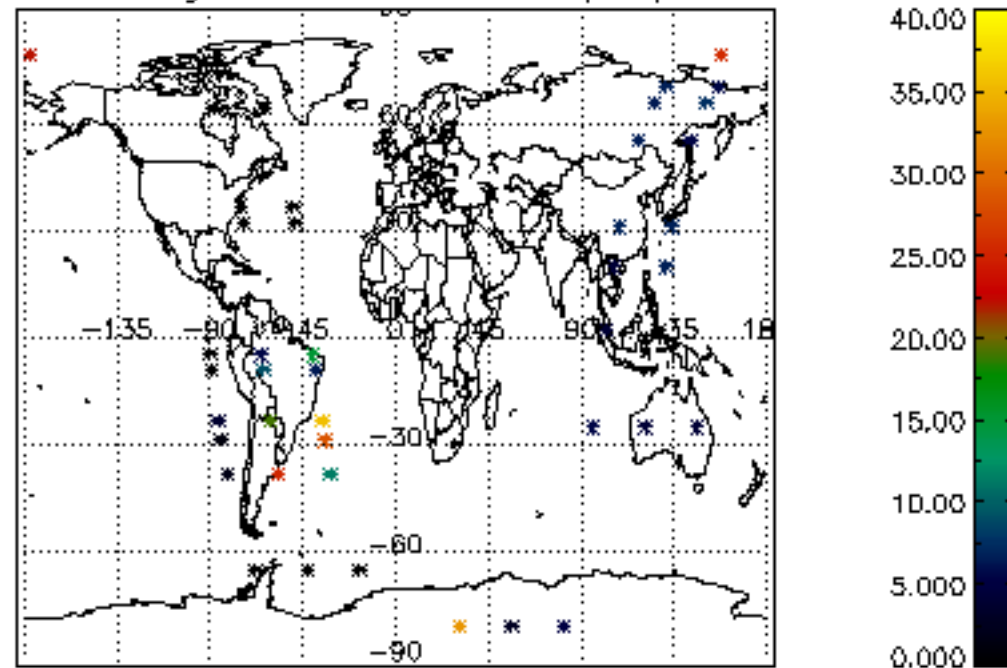
Percentage of datation errors per profile



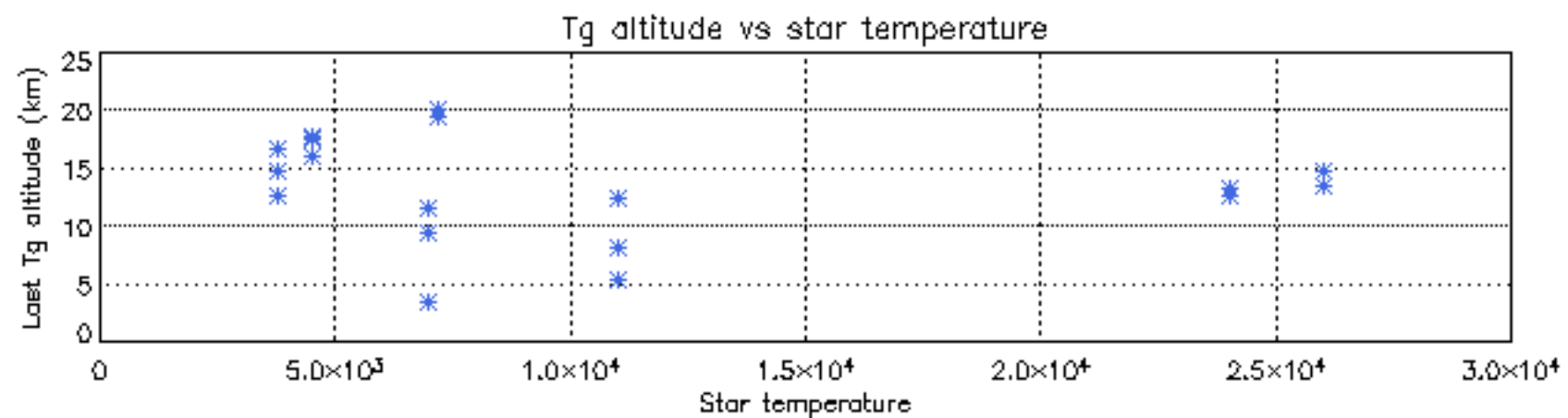
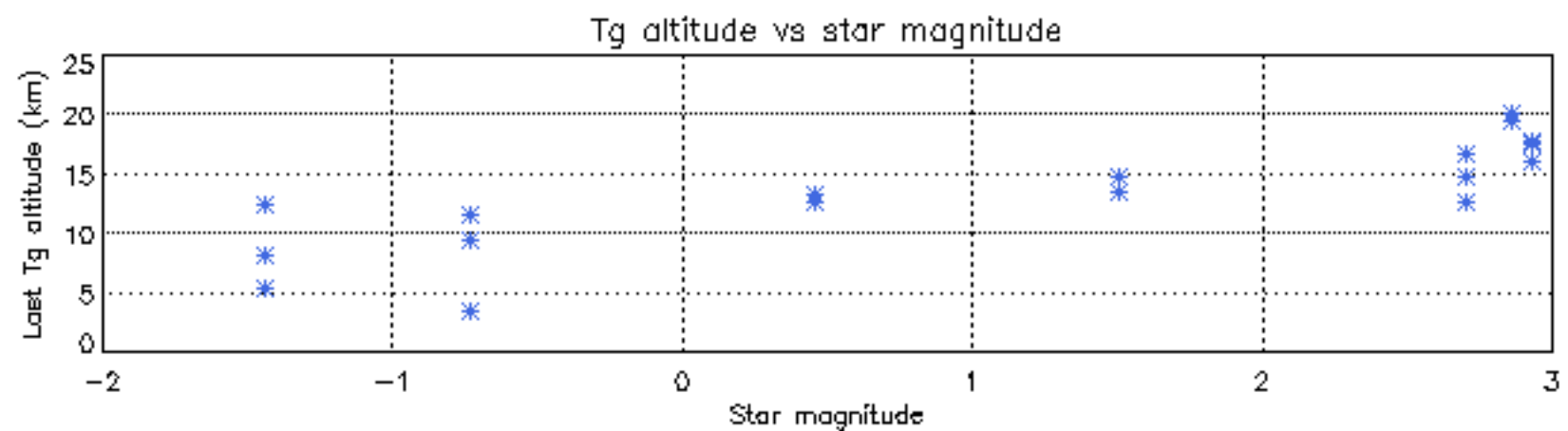
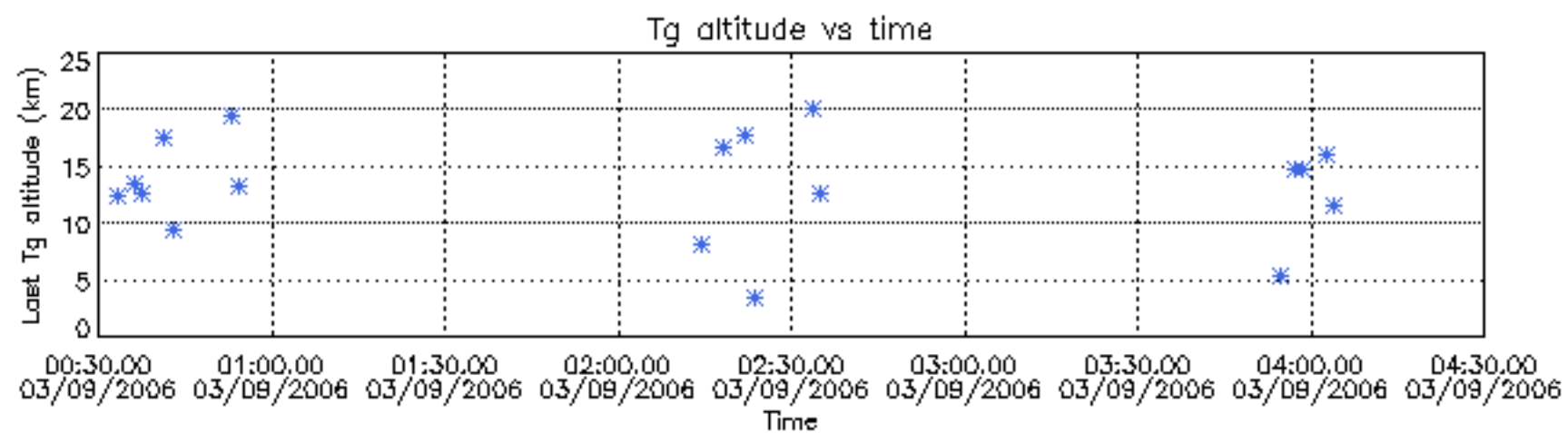
Percentage of star falling outside central band per profile



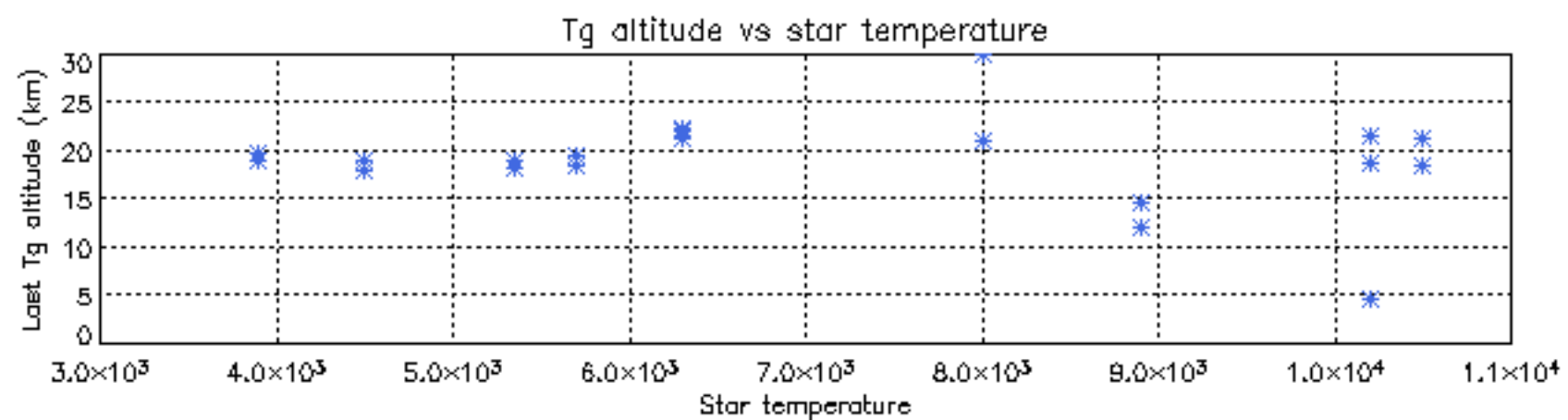
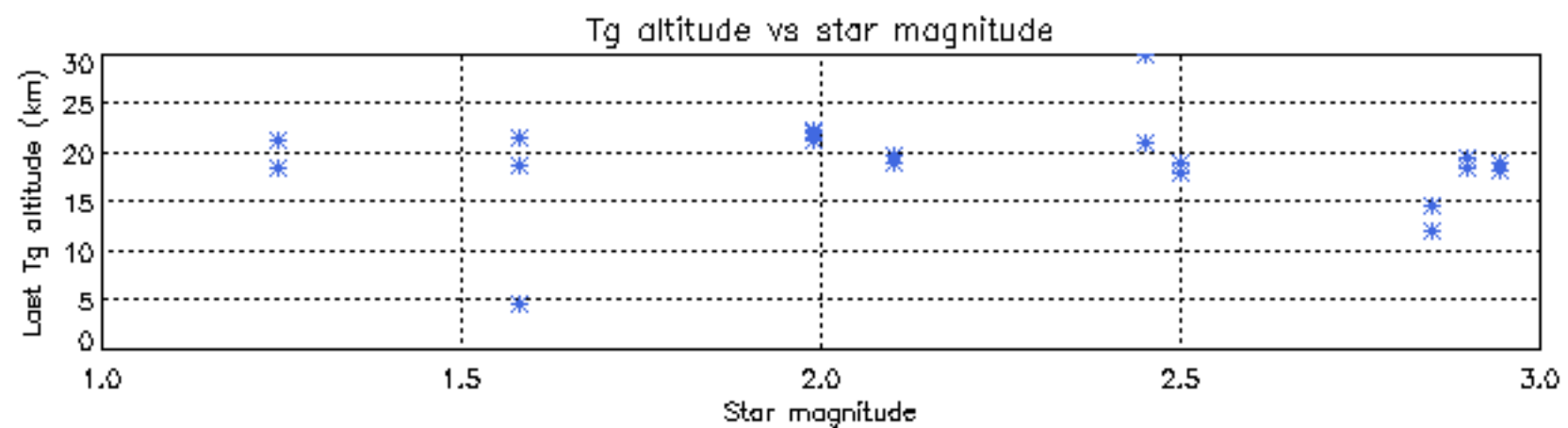
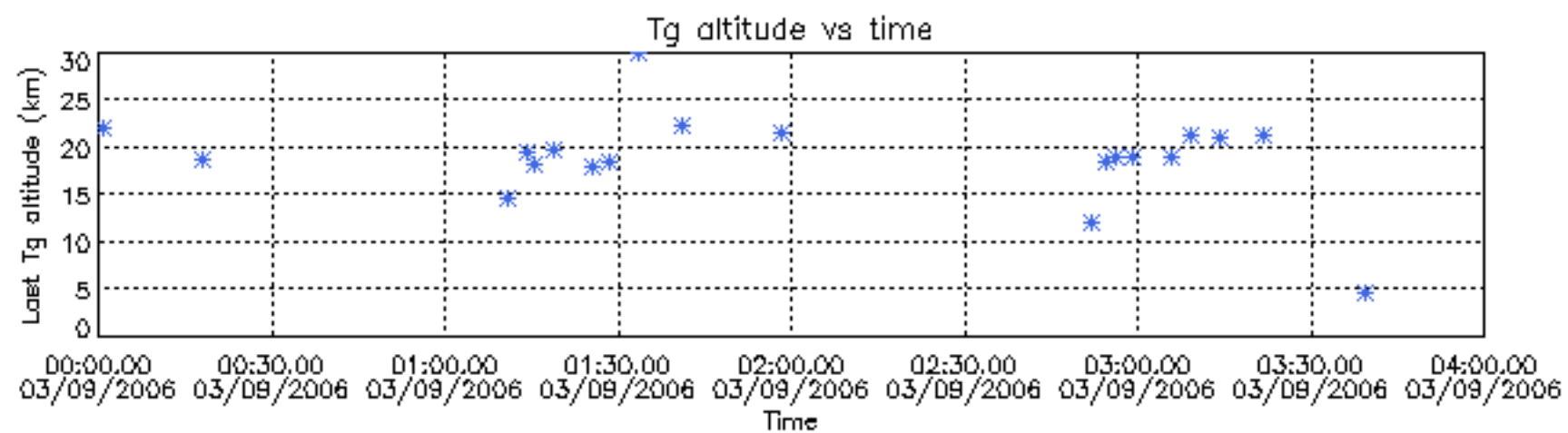
Percentage of saturation errors per profile



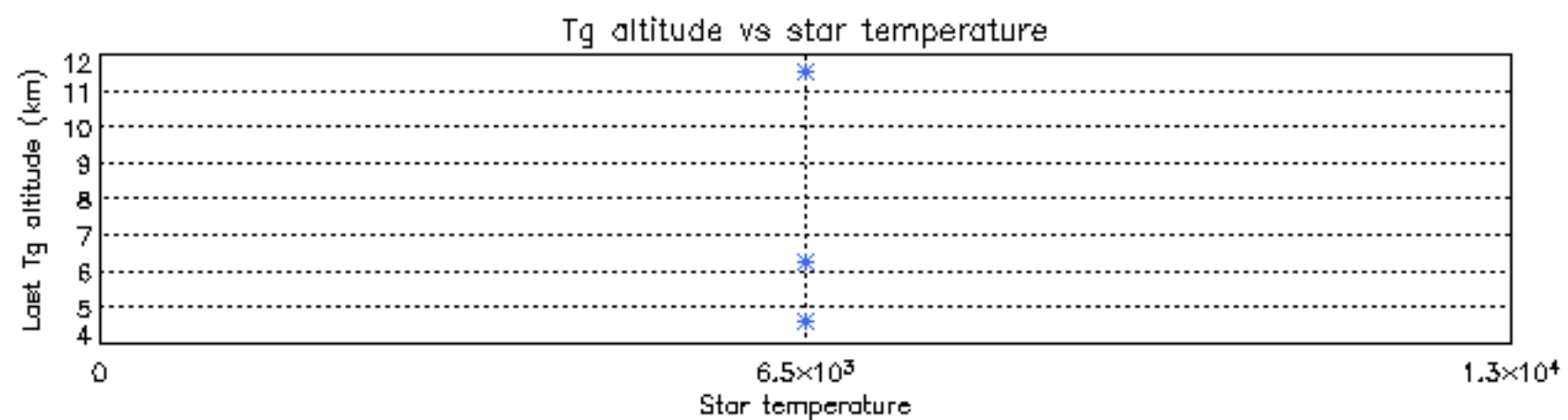
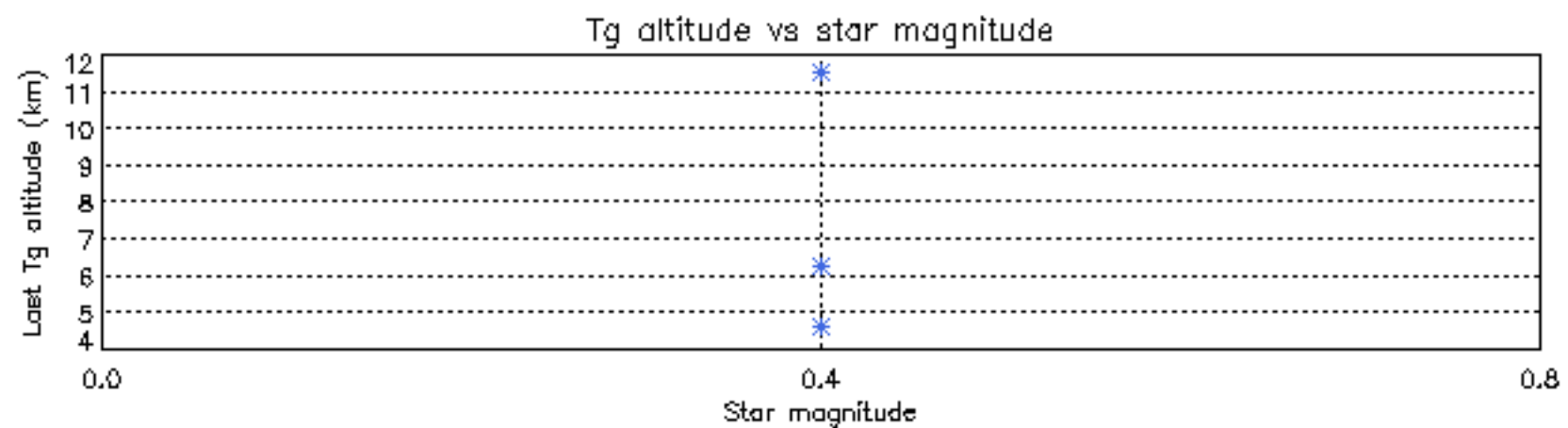
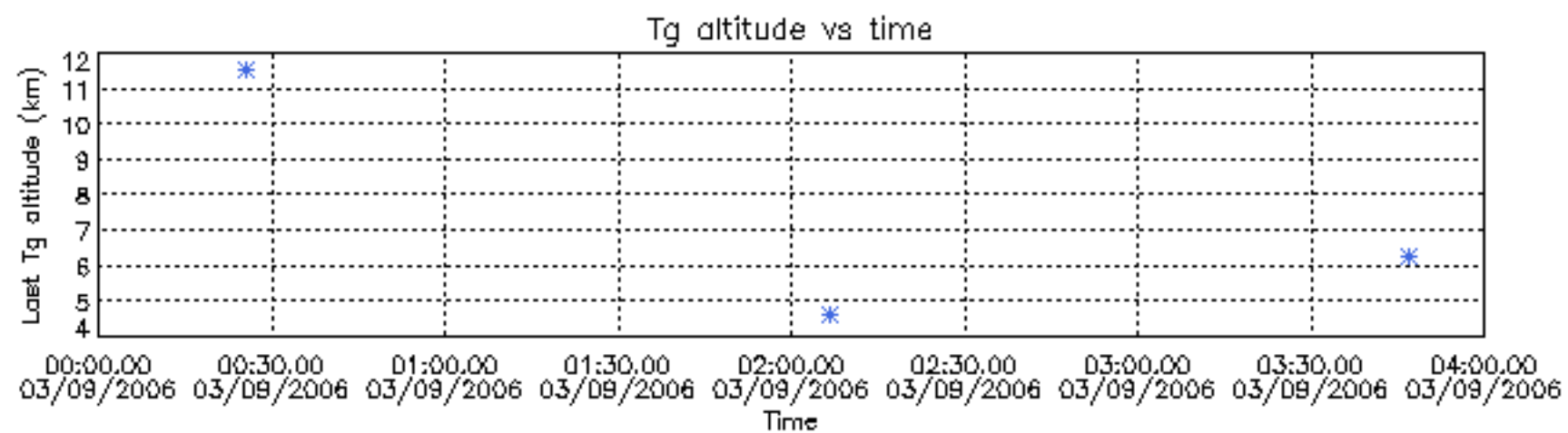
Tangent altitude at which the star is lost

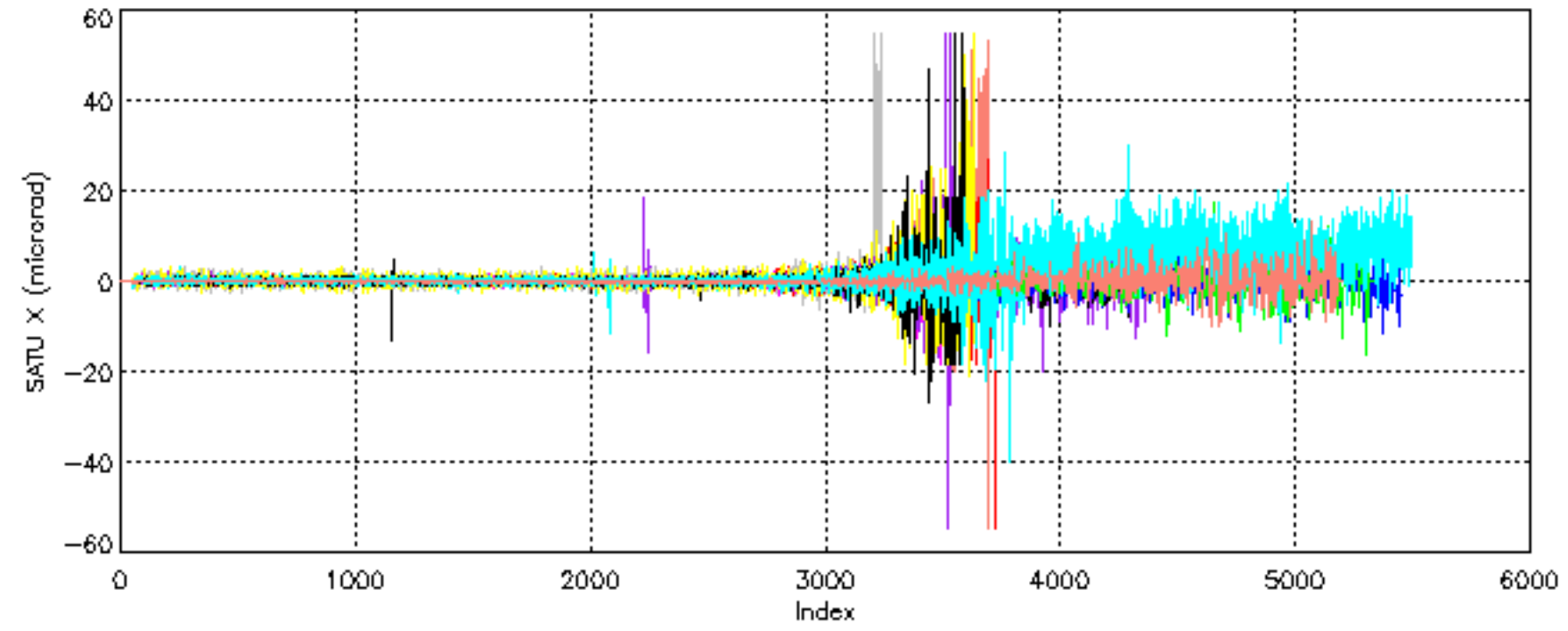


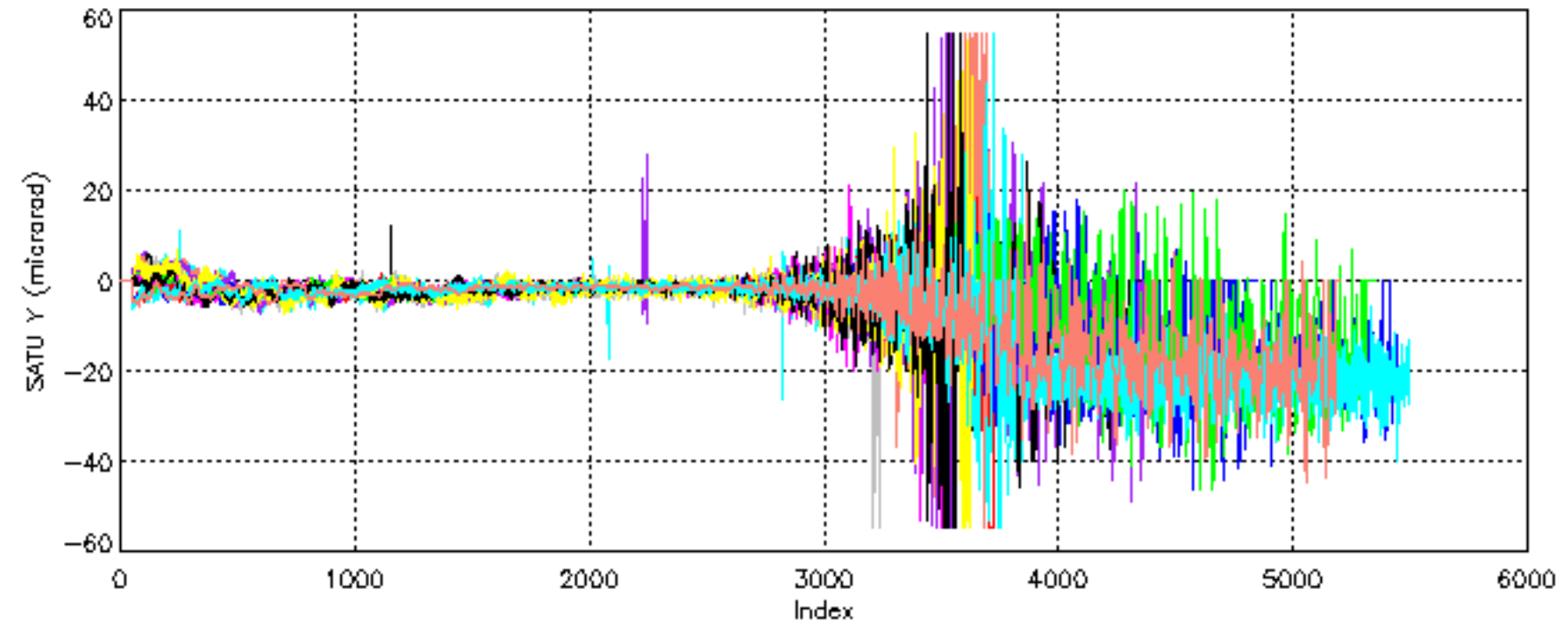
Tangent altitude at which the star is lost

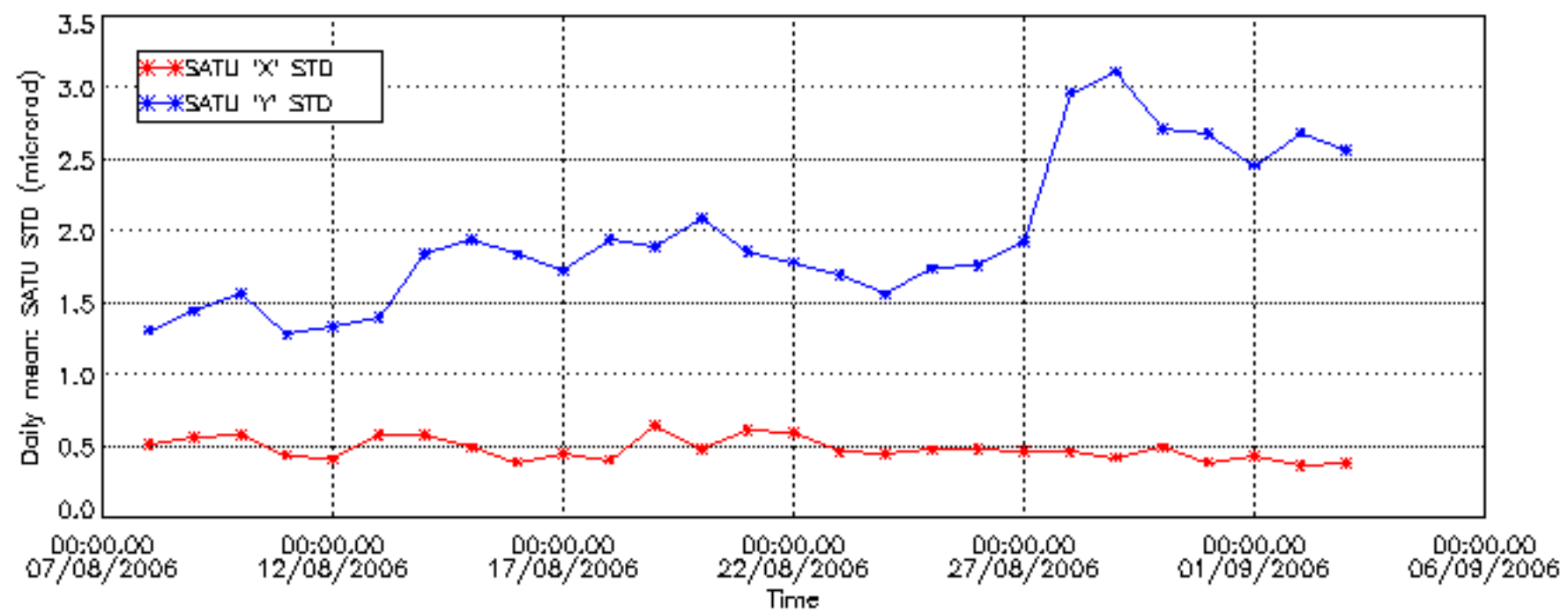


Tangent altitude at which the star is lost









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 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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