

GOMOS Daily Report 18-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	20SEP2006 10:24:03
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (18SEP2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (19SEP2006 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	44
Nb of prods with errors	0

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

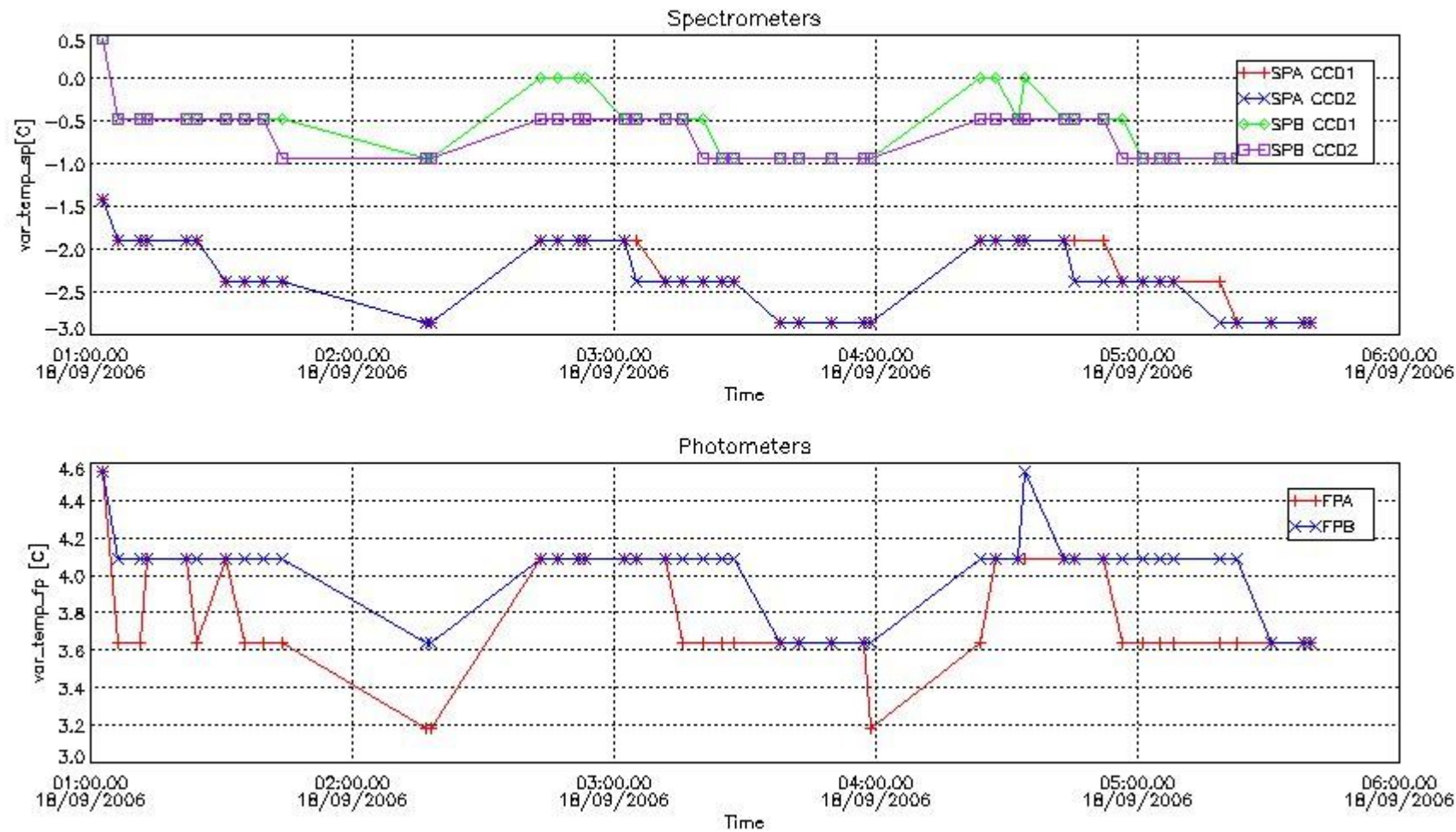
2.1 Level 0 products arrived in PCF (see template [here](#))

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_1PNPDE20060918_010236_000000422051_00188_23789_1334.N1	18-SEP-2006 01:02:36	Dark	42.000	132	15Rho Pup	2.8030	6900.0	84	23789	No
2	GOM_TRA_1PNPDE20060918_010622_000000432051_00188_23789_1335.N1	18-SEP-2006 01:06:22	Dark	42.500	65	Lam Vel	2.2040	4400.0	85	23789	No
3	GOM_TRA_1PNPDE20060918_011112_000000492051_00188_23789_1336.N1	18-SEP-2006 01:11:12	Dark	49.000	41	Eps Car	1.8600	4100.0	98	23789	No
4	GOM_TRA_1PNPDE20060918_011249_000000512051_00189_23790_1337.N1	18-SEP-2006 01:12:49	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	23790	No
5	GOM_TRA_1PNPDE20060918_012146_000000372051_00189_23790_1338.N1	18-SEP-2006 01:21:46	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	23790	No
6	GOM_TRA_1PNPDE20060918_012427_000000432051_00189_23790_1339.N1	18-SEP-2006 01:24:27	Dark	43.000	9	Alp Eri	0.45300	24000.	86	23790	No
7	GOM_TRA_1PNPDE20060918_013102_000000382051_00189_23790_1332.N1	18-SEP-2006 01:31:02	Straylight	37.500	31	Alp Gru	1.7340	15200.	75	23790	No
8	GOM_TRA_1PNPDE20060918_013516_000000452051_00189_23790_1333.N1	18-SEP-2006 01:35:16	Straylight	44.500	18	24Alp PsA	1.1660	9700.0	89	23790	No
9	GOM_TRA_1PNPDE20060918_013946_000000392051_00189_23790_1334.N1	18-SEP-2006 01:39:46	Twilight_and_stray	38.500	142	49Del Cap	2.8500	8900.0	77	23790	No
10	GOM_TRA_1PNPDE20060918_014359_000000372051_00189_23790_1335.N1	18-SEP-2006 01:43:59	Bright	36.500	162	34Alp Aqr	2.9440	5350.0	73	23790	No
11	GOM_TRA_1PNPDE20060918_021647_000000372051_00189_23790_1329.N1	18-SEP-2006 02:16:47	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	23790	No
12	GOM_TRA_1PNPDE20060918_021813_000000502051_00189_23790_1330.N1	18-SEP-2006 02:18:13	Bright	50.000	82	48Bet UMa	2.3650	10600.	100	23790	No
13	GOM_TRA_1PNPDE20060918_024312_000000422051_00189_23790_1331.N1	18-SEP-2006 02:43:12	Dark	41.500	132	15Rho Pup	2.8030	6900.0	83	23790	No
14	GOM_TRA_1PNPDE20060918_024658_000000422051_00189_23790_1332.N1	18-SEP-2006 02:46:58	Dark	41.500	65	Lam Vel	2.2040	4400.0	83	23790	No
15	GOM_TRA_1PNPDE20060918_025148_000000442051_00189_23790_1333.N1	18-SEP-2006 02:51:48	Dark	43.500	41	Eps Car	1.8600	4100.0	87	23790	No
16	GOM_TRA_1PNPDE20060918_025326_000000482051_00190_23791_1334.N1	18-SEP-2006 02:53:26	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	23791	No
17	GOM_TRA_1PNPDE20060918_030222_000000372051_00190_23791_1335.N1	18-SEP-2006 03:02:22	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	23791	No
18	GOM_TRA_1PNPDE20060918_030503_000000522051_00190_23791_1336.N1	18-SEP-2006 03:05:03	Dark	52.000	9	Alp Eri	0.45300	24000.	104	23791	No
19	GOM_TRA_1PNPDE20060918_031138_000000382051_00190_23791_1337.N1	18-SEP-2006 03:11:38	Straylight	37.500	31	Alp Gru	1.7340	15200.	75	23791	No
20	GOM_TRA_1PNPDE20060918_031552_000000442051_00190_23791_1338.N1	18-SEP-2006 03:15:52	Straylight	44.000	18	24Alp PsA	1.1660	9700.0	88	23791	No
21	GOM_TRA_1PNPDE20060918_032022_000000382051_00190_23791_1339.N1	18-SEP-2006 03:20:22	Twilight_and_stray	38.000	142	49Del Cap	2.8500	8900.0	76	23791	No
22	GOM_TRA_1PNPDE20060918_032435_000000362051_00190_23791_1340.N1	18-SEP-2006 03:24:35	Bright	35.500	162	34Alp Aqr	2.9440	5350.0	71	23791	No
23	GOM_TRA_1PNPDE20060918_032736_000000392051_00190_23791_1341.N1	18-SEP-2006 03:27:36	Bright	38.500	61	8Eps Peg	2.1000	3900.0	77	23791	No
24	GOM_TRA_1PNPDE20060918_033803_000000372051_00190_23791_1342.N1	18-SEP-2006 03:38:03	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	23791	No
25	GOM_TRA_1PNPDE20060918_034220_000000352051_00190_23791_1343.N1	18-SEP-2006 03:42:20	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	23791	No
26	GOM_TRA_1PNPDE20060918_034957_000000342051_00190_23791_1344.N1	18-SEP-2006 03:49:57	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	23791	No
27	GOM_TRA_1PNPDE20060918_035723_000000372051_00190_23791_1327.N1	18-SEP-2006 03:57:23	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	23791	No
28	GOM_TRA_1PNPDE20060918_035850_000000352051_00190_23791_1328.N1	18-SEP-2006 03:58:50	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	23791	No
29	GOM_TRA_1PNPDE20060918_042349_000000432051_00190_23791_1329.N1	18-SEP-2006 04:23:49	Dark	42.500	132	15Rho Pup	2.8030	6900.0	85	23791	No
30	GOM_TRA_1PNPDE20060918_042734_000000432051_00190_23791_1330.N1	18-SEP-2006 04:27:34	Dark	43.000	65	Lam Vel	2.2040	4400.0	86	23791	No
31	GOM_TRA_1PNPDE20060918_043224_000000432051_00190_23791_1331.N1	18-SEP-2006 04:32:24	Dark	42.500	41	Eps Car	1.8600	4100.0	85	23791	No
32	GOM_TRA_1PNPDE20060918_043403_000000572051_00191_23792_1332.N1	18-SEP-2006 04:34:03	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	23792	No
33	GOM_TRA_1PNPDE20060918_044258_000000392051_00191_23792_1333.N1	18-SEP-2006 04:42:58	Dark	39.000	135	Bet Hyi	2.8200	5800.0	78	23792	No
34	GOM_TRA_1PNPDE20060918_044540_000000492051_00191_23792_1334.N1	18-SEP-2006 04:45:40	Dark	48.500	9	Alp Eri	0.45300	24000.	97	23792	No
35	GOM_TRA_1PNPDE20060918_045214_000000392051_00191_23792_1335.N1	18-SEP-2006 04:52:14	Straylight	39.000	31	Alp Gru	1.7340	15200.	78	23792	No
36	GOM_TRA_1PNPDE20060918_045628_000000402051_00191_23792_1336.N1	18-SEP-2006 04:56:28	Straylight	40.000	18	24Alp PsA	1.1660	9700.0	80	23792	No
37	GOM_TRA_1PNPDE20060918_050059_000000392051_00191_23792_1337.N1	18-SEP-2006 05:00:59	Twilight_and_stray	39.000	142	49Del Cap	2.8500	8900.0	78	23792	No
38	GOM_TRA_1PNPDE20060918_050511_000000372051_00191_23792_1338.N1	18-SEP-2006 05:05:11	Bright	37.000	162	34Alp Aqr	2.9440	5350.0	74	23792	No
39	GOM_TRA_1PNPDE20060918_050812_000000382051_00191_23792_1339.N1	18-SEP-2006 05:08:12	Bright	37.500	61	8Eps Peg	2.1000	3900.0	75	23792	No
40	GOM_TRA_1PNPDE20060918_051839_000000372051_00191_23792_1340.N1	18-SEP-2006 05:18:39	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	23792	No
41	GOM_TRA_1PNPDE20060918_052256_000000352051_00191_23792_1341.N1	18-SEP-2006 05:22:56	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	23792	No
42	GOM_TRA_1PNPDE20060918_053033_000000352051_00191_23792_1342.N1	18-SEP-2006 05:30:33	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	23792	No

43	GOM_TRA_1PNPDE20060918_053759_000000362051_00191_23792_1328.N1	18-SEP-2006 05:37:59	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	23792	No
44	GOM_TRA_1PNPDE20060918_053926_000000362051_00191_23792_1329.N1	18-SEP-2006 05:39:26	Bright	36.000	82	48Bet UMa	2.3650	10600.	72	23792	No

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



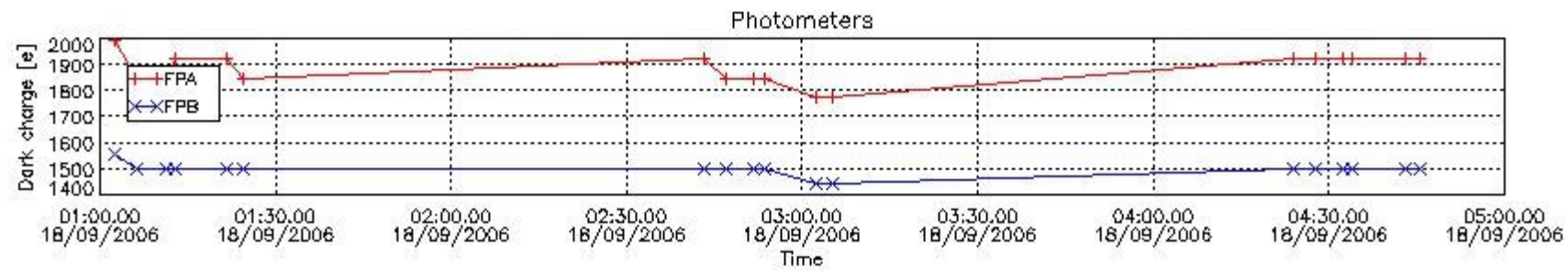
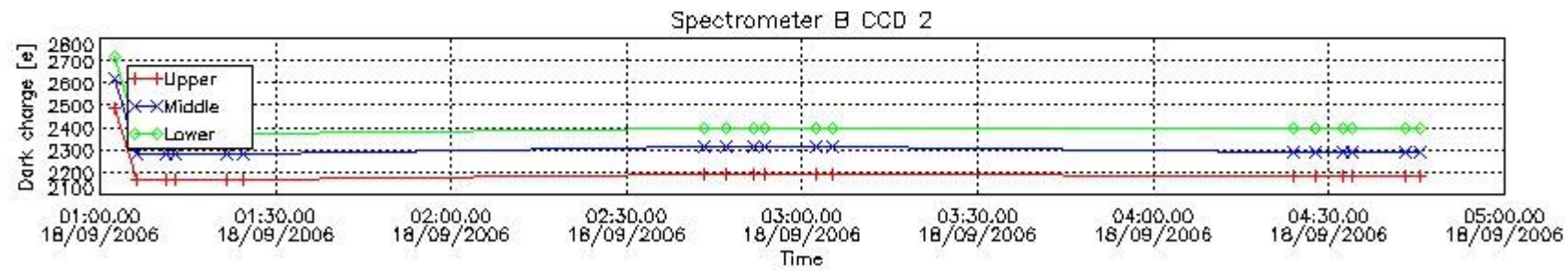
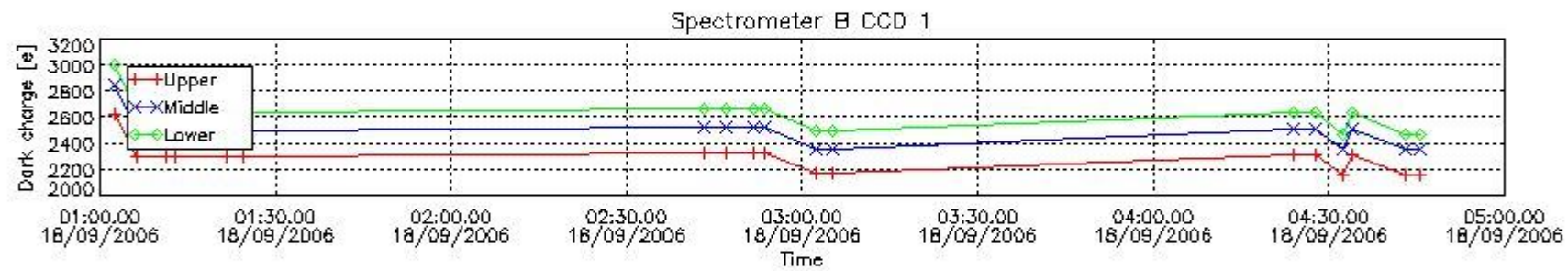
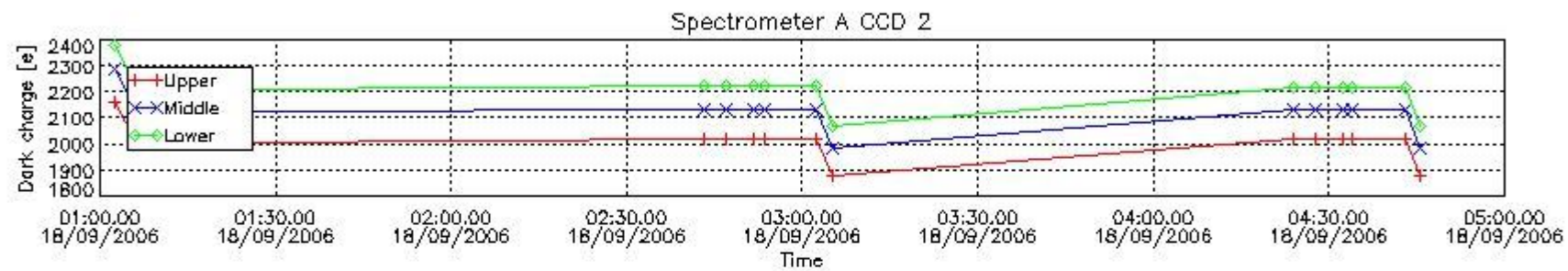
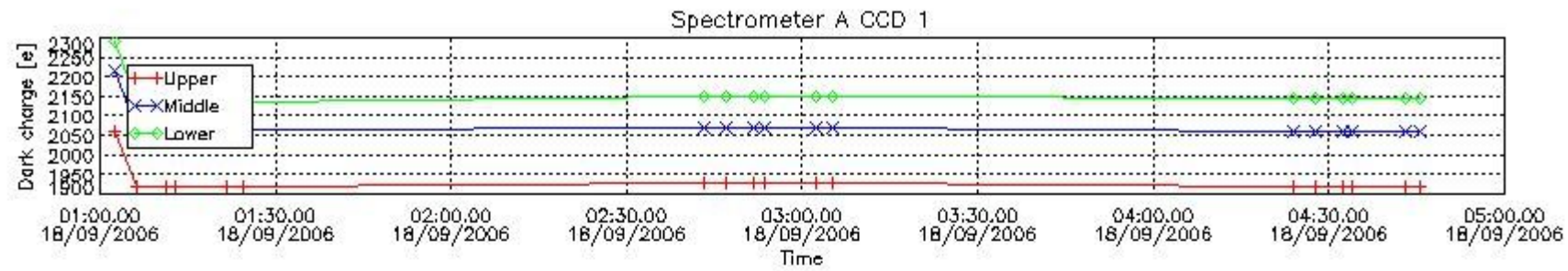
4. Overview of dark signal processing per product

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



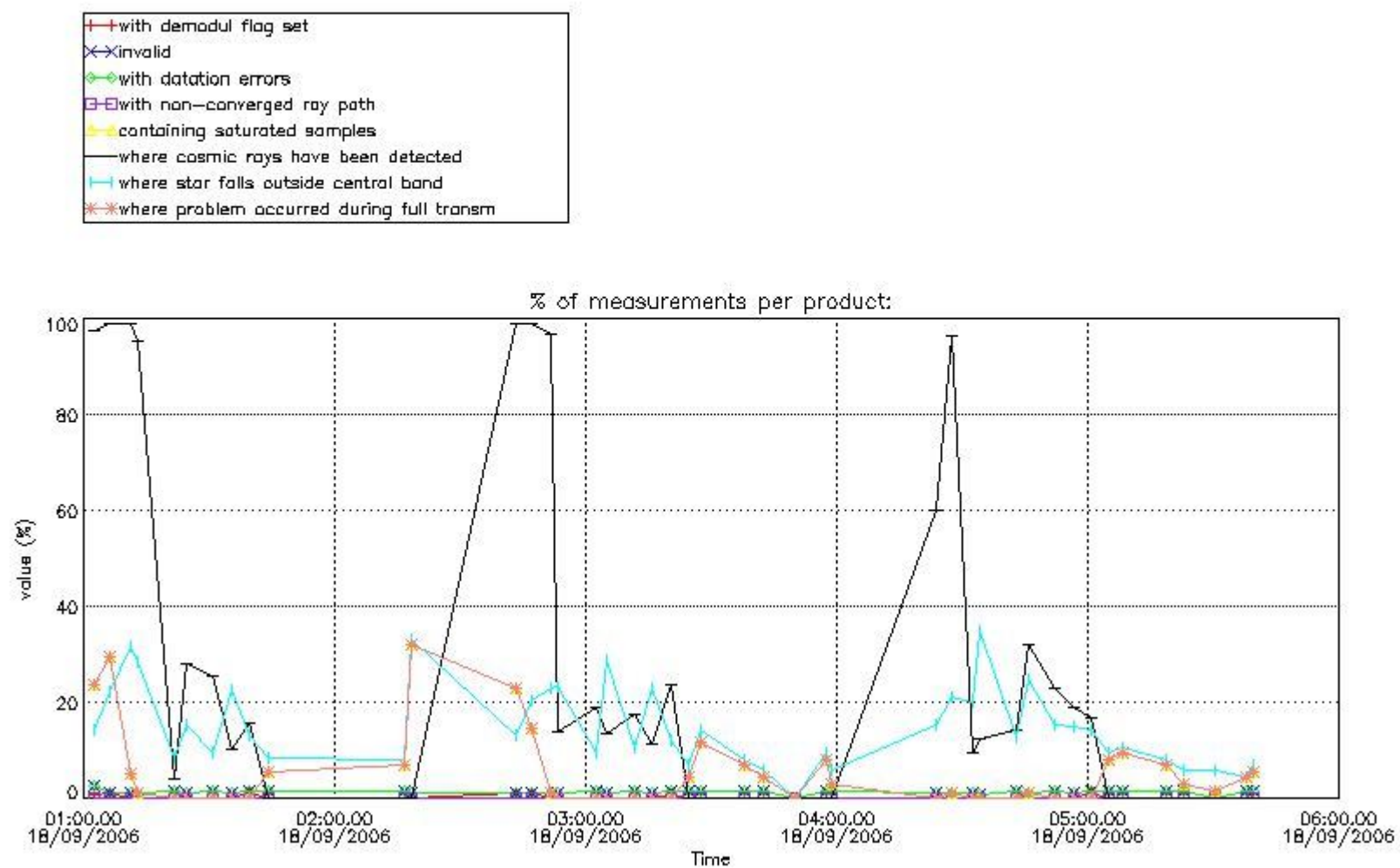
5. Demodulation flag and quality information monitoring

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.

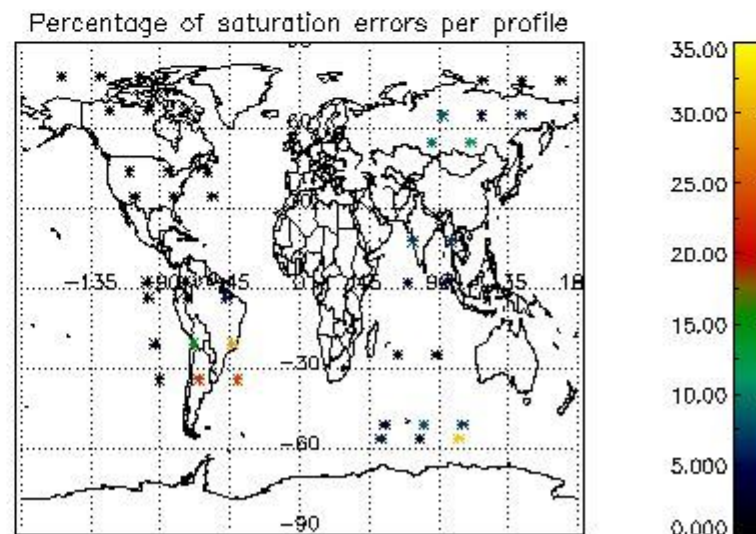
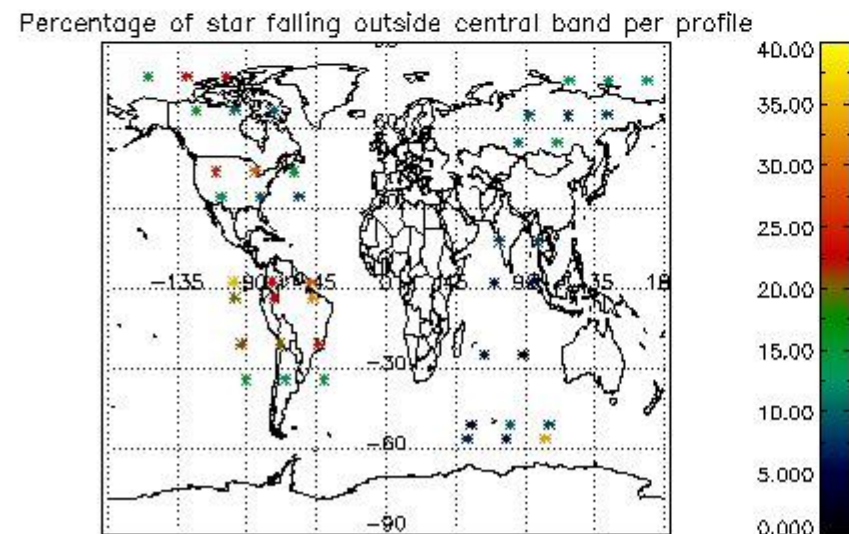
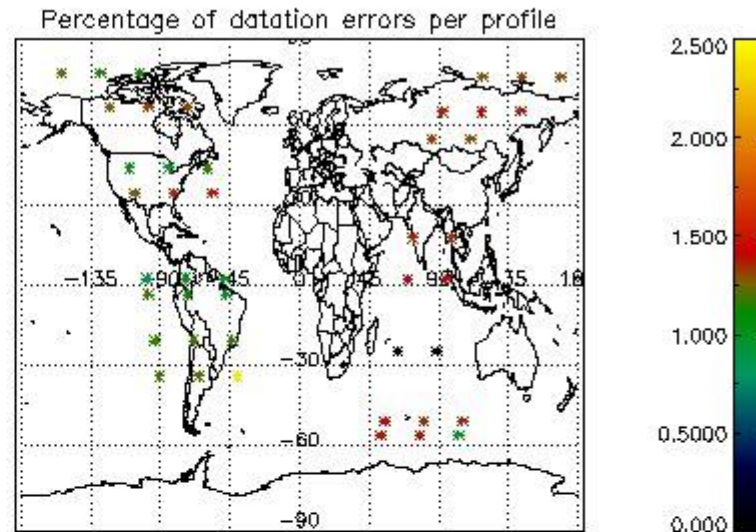
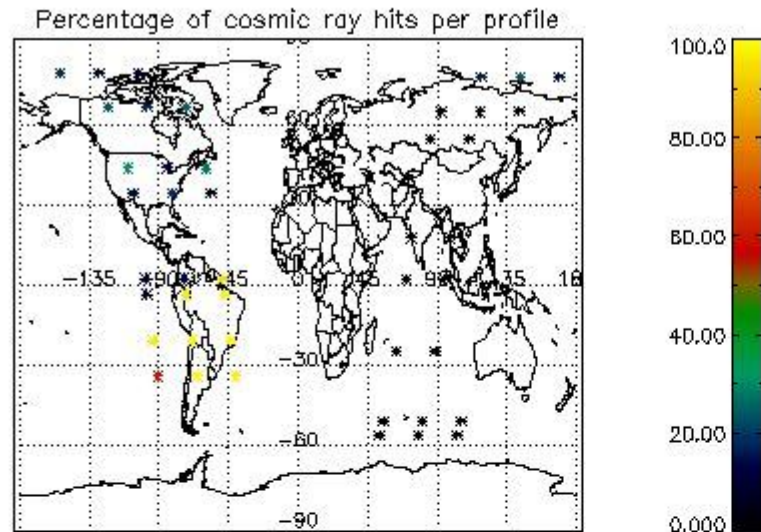
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	29.5455 %
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)



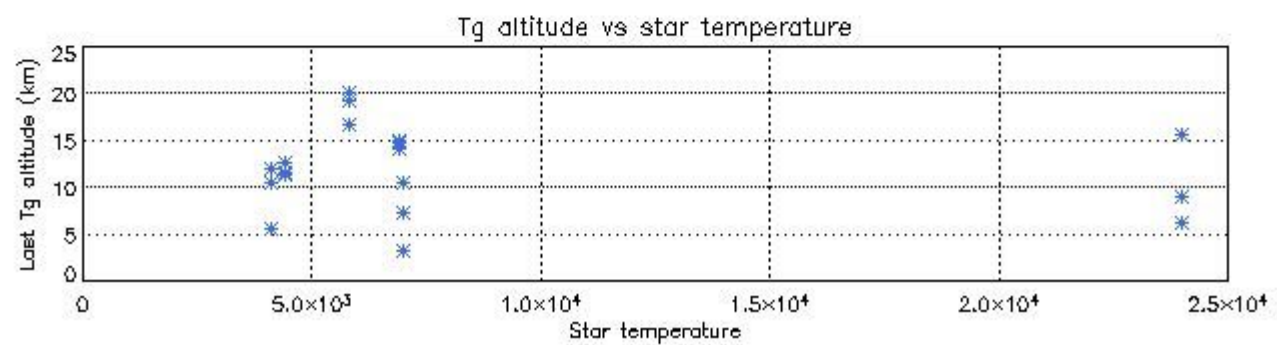
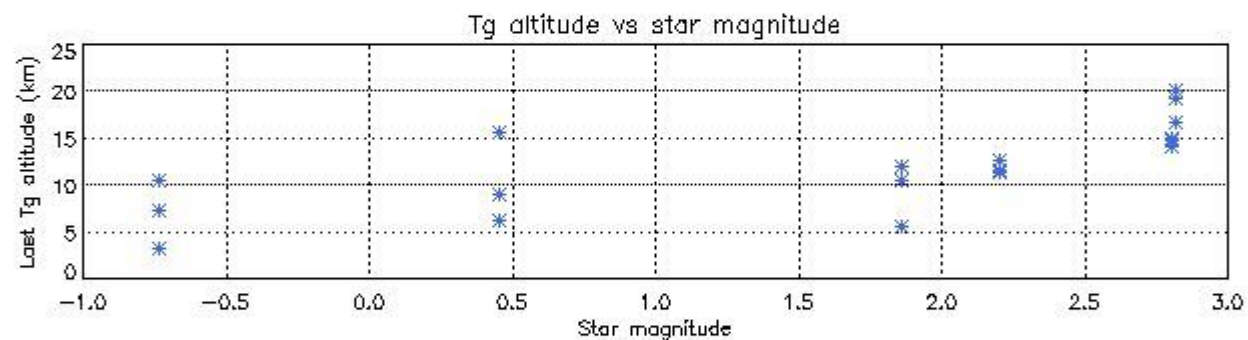
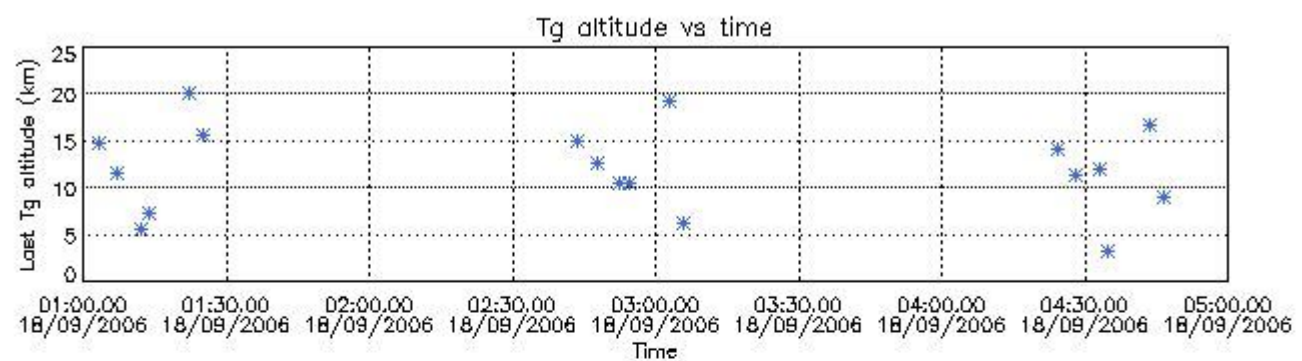
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	11.926	19.243	NaN
St. deviation:	4.6167	4.4368	NaN
Maximum:	20.045	26.095	NaN
Minimum:	3.1221	5.1424	NaN
Number of data:	18.000	17.000	NaN

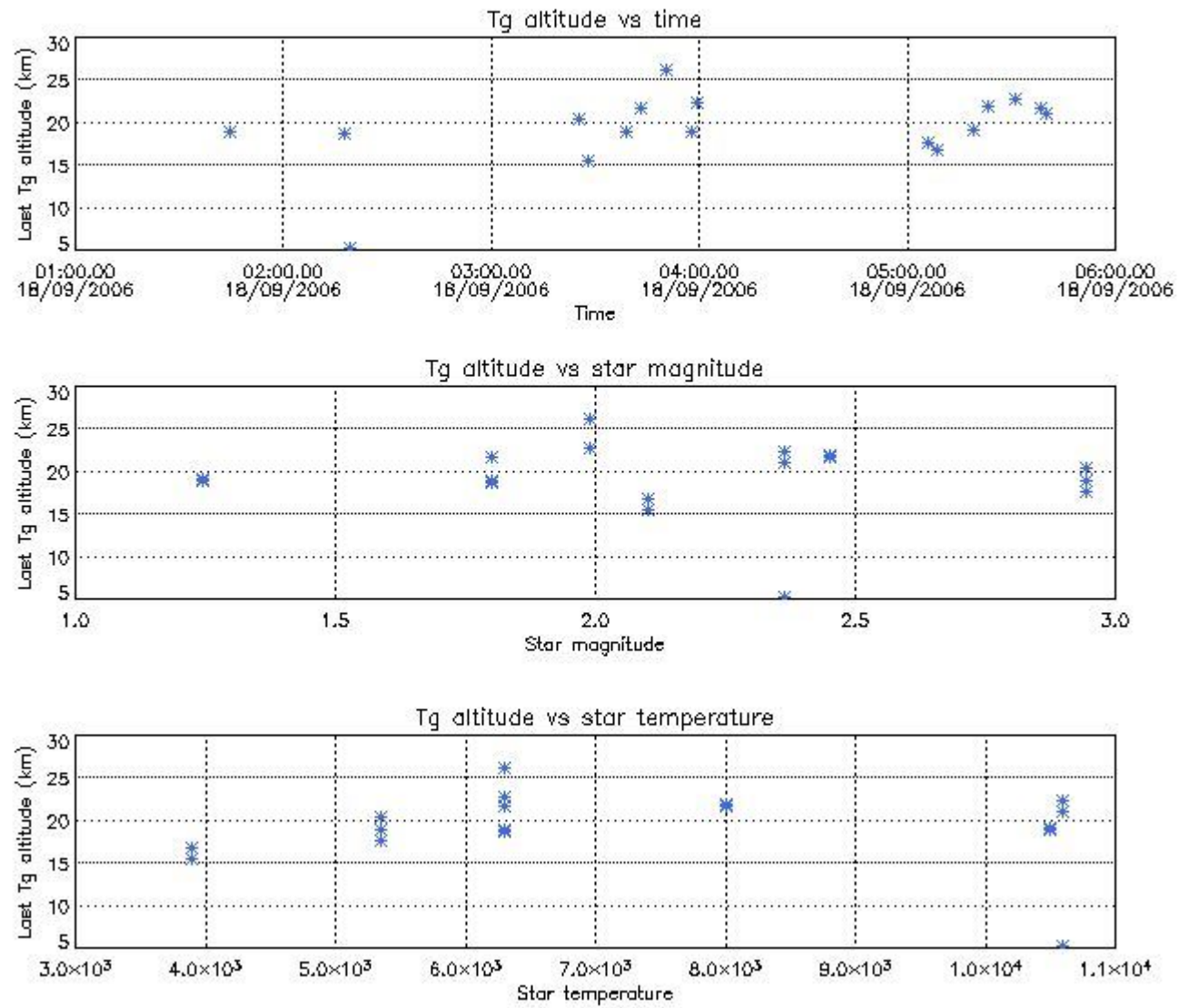
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

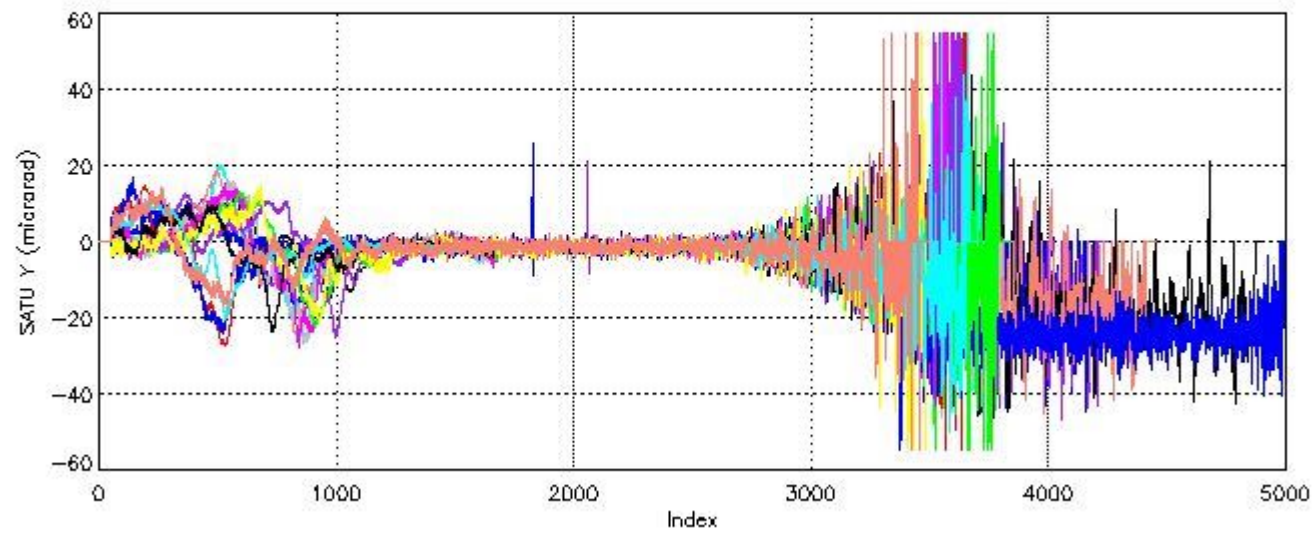
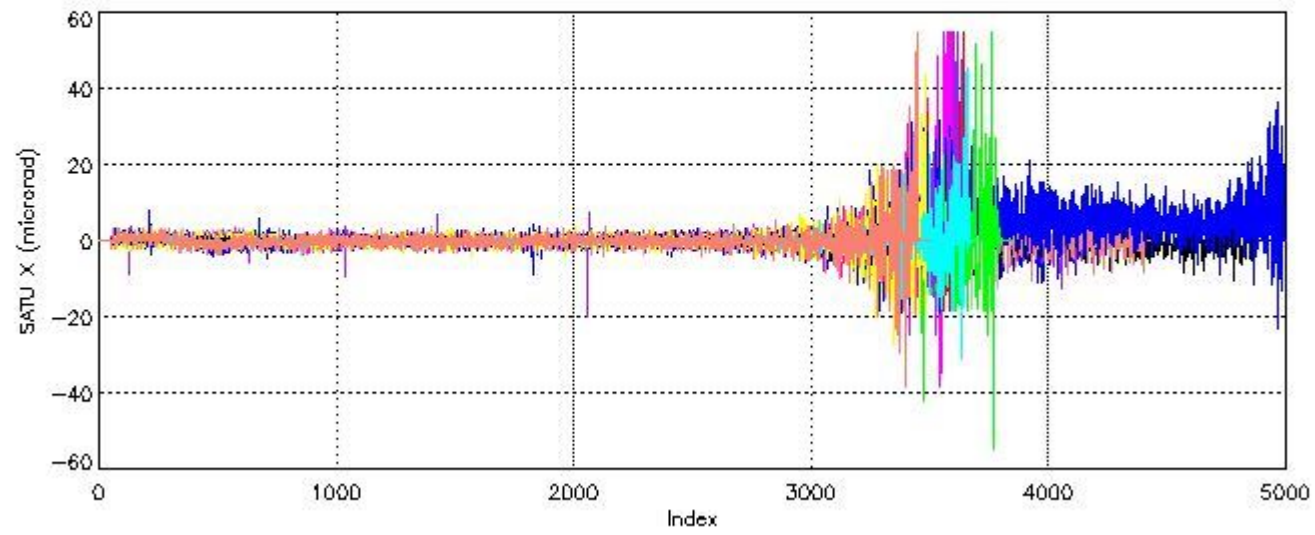


7. Star Acquisition and Tracking Unit (SATU)

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.

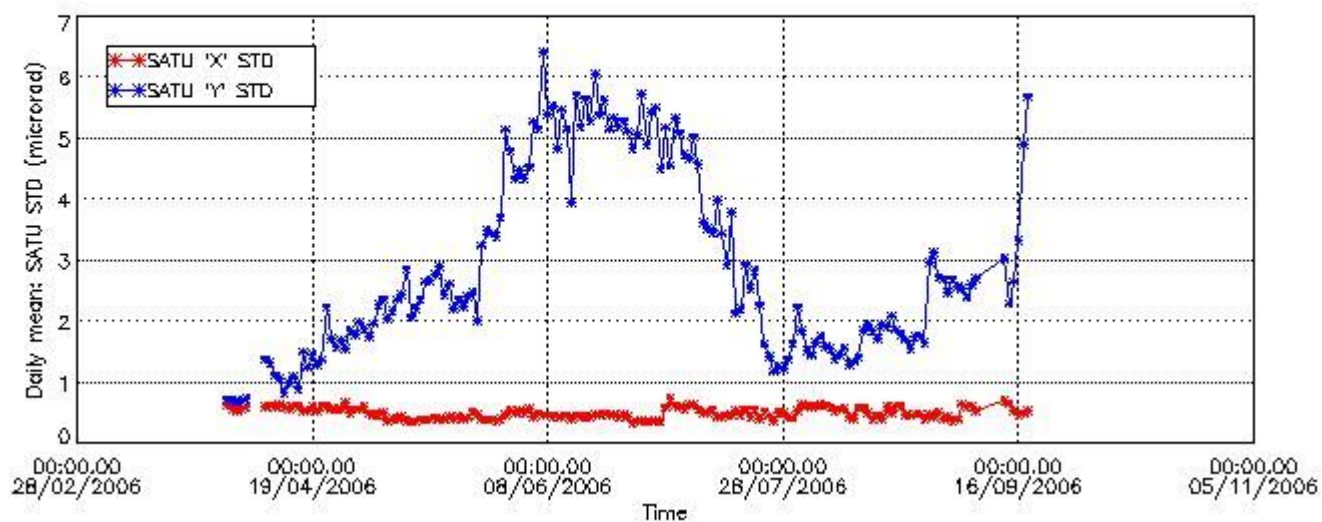
7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.12675	1.2411	0.035453	0.39168
St. deviation:	0.51793	5.6732	0.76951	5.9725
Maximum:	7.8000	20.200	3.9000	16.600
Minimum:	-0.20000	-7.7000	-3.7000	-18.400

Number of data:	16050.	16050.	14000.	14000.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

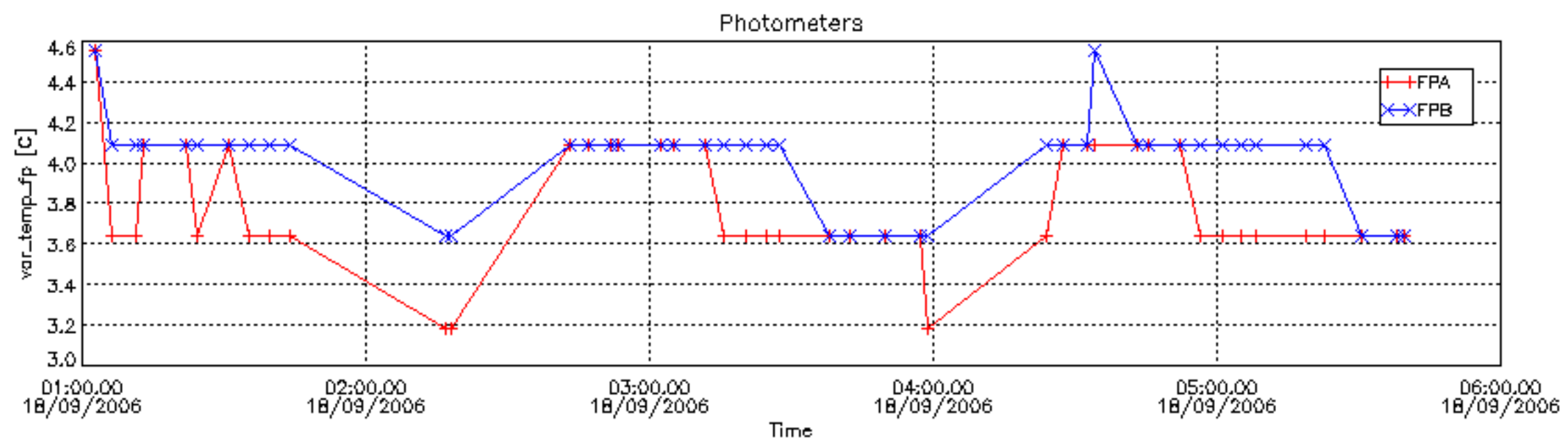
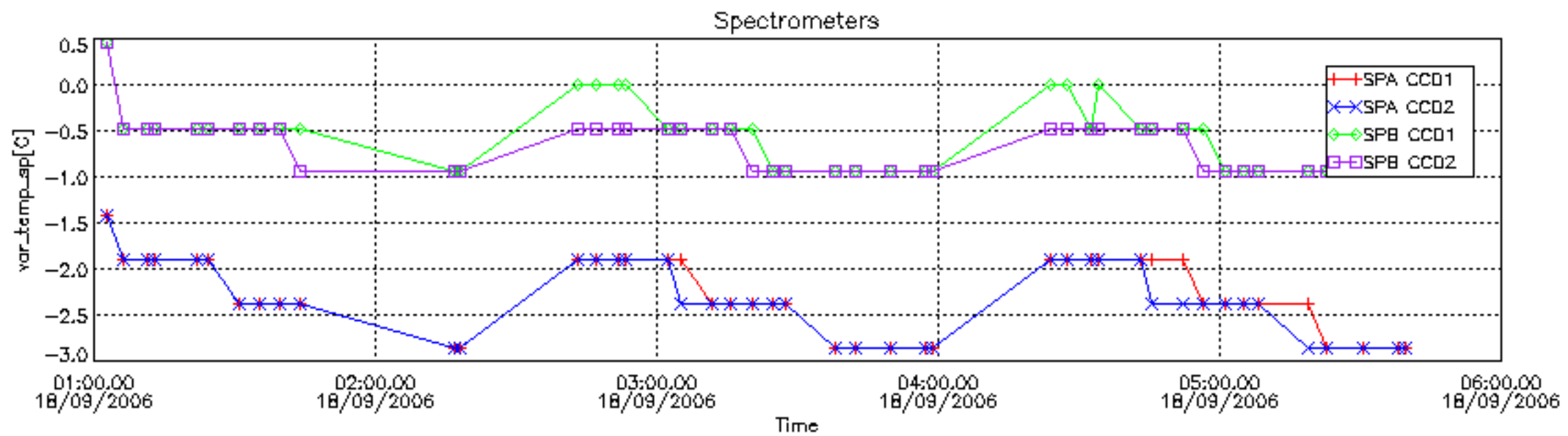
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

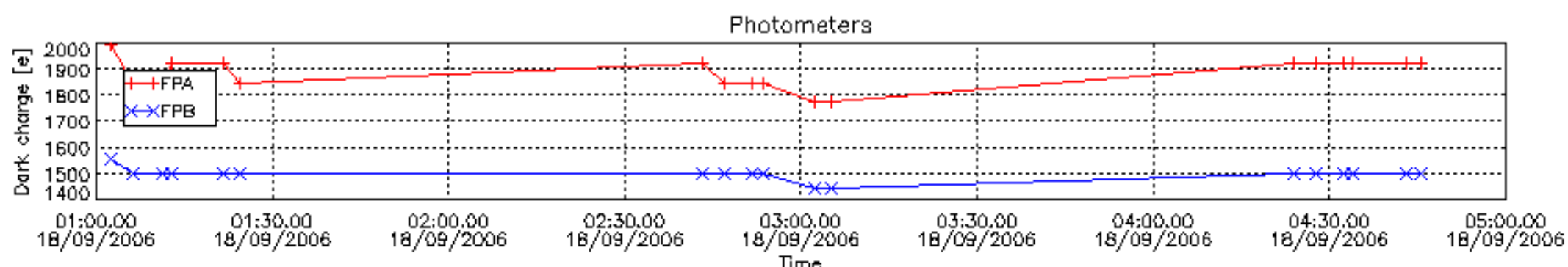
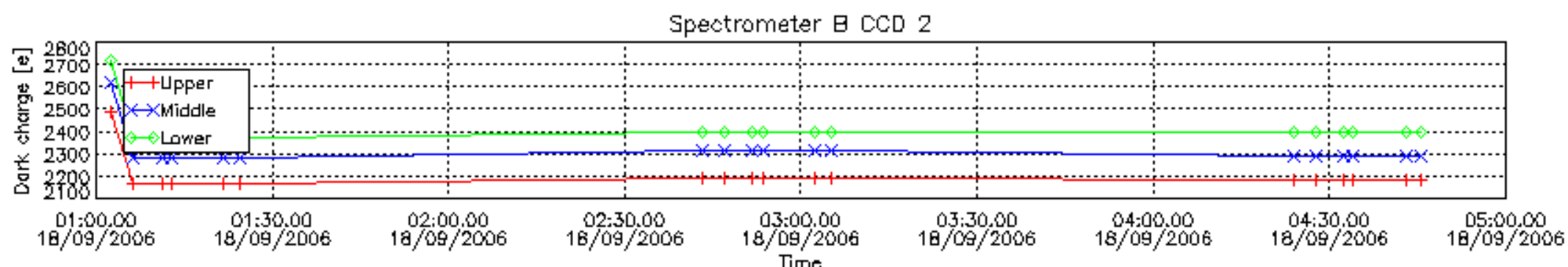
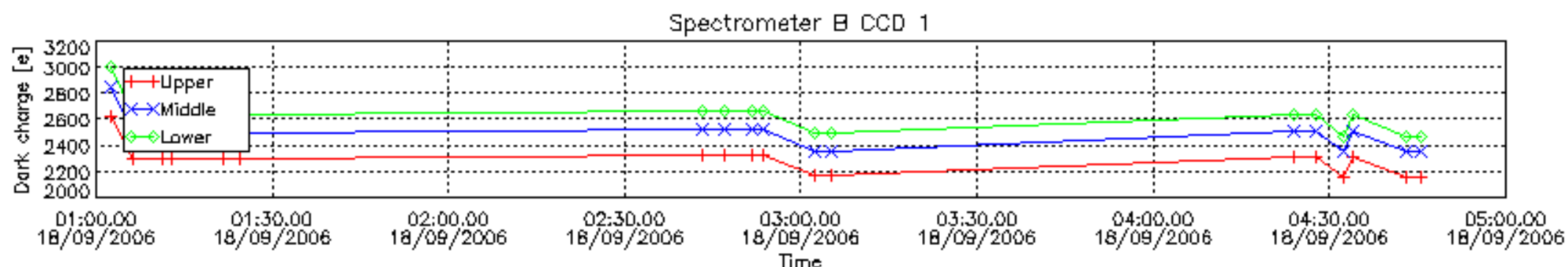
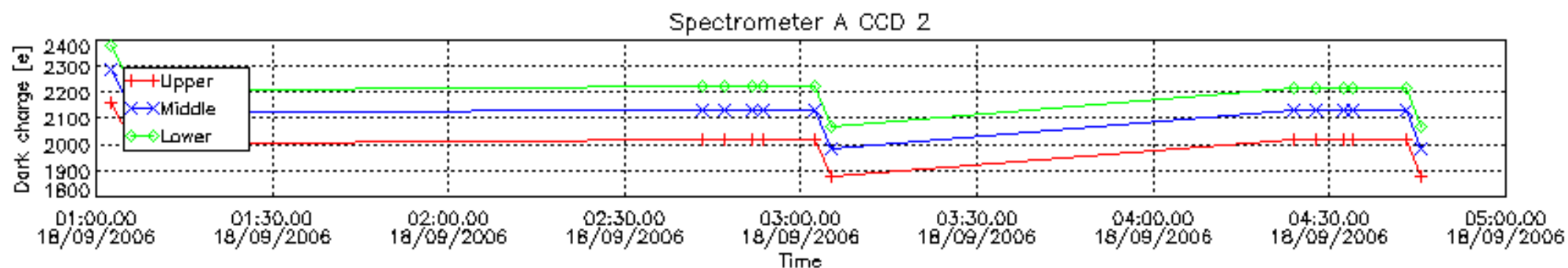
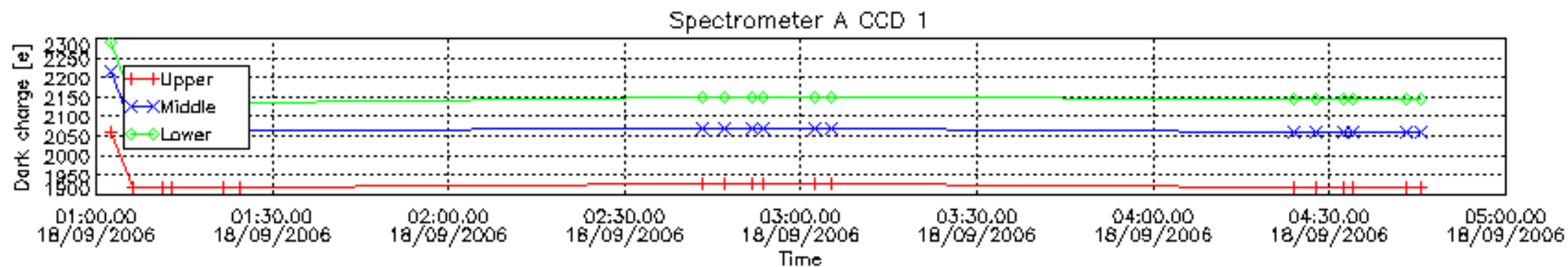


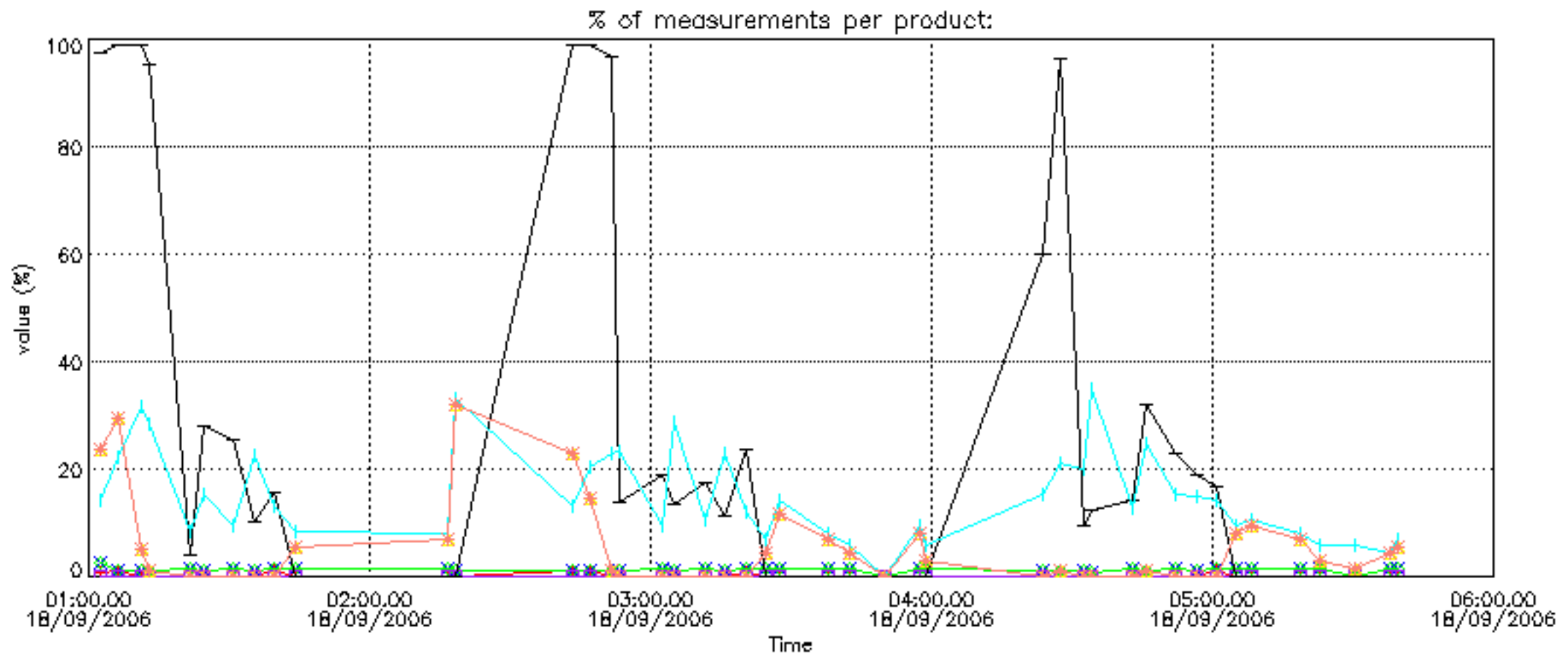
8. Auxiliary Data Files used for the production reported in section 2.2

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.

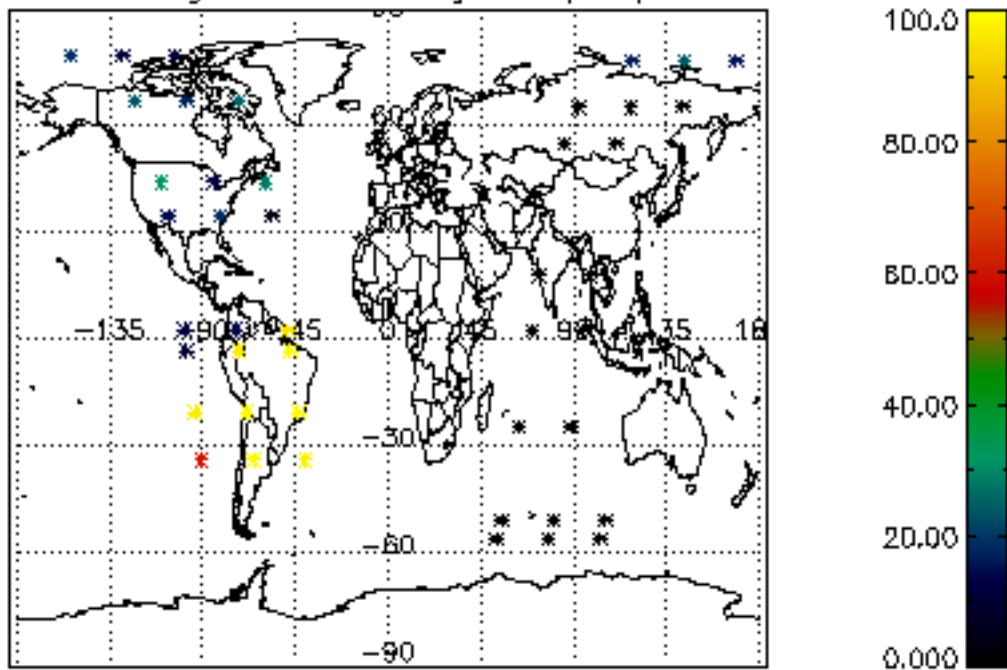
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	18-SEP-2006 01:02:36
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060904_154109_20060902_000000_20100101_000000	1	18-SEP-2006 01:02:36
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	18-SEP-2006 01:02:36
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	18-SEP-2006 01:02:36
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	18-SEP-2006 01:02:36
ECMWF_FILE	AUX_ECA_AXNECM20060918_060557_20060917_210000_20060918_090000	1	18-SEP-2006 01:02:36
ECMWF_FILE	AUX_ECF_AXNECM20060917_063458_20060917_210000_20060918_090000	7	18-SEP-2006 01:31:02
ECMWF_FILE	AUX_ECA_AXNECM20060918_060557_20060917_210000_20060918_090000	11	18-SEP-2006 02:16:47
ECMWF_FILE	AUX_ECF_AXNECM20060917_182455_20060918_030000_20060918_150000	27	18-SEP-2006 03:57:23
OPTIONAL_ECMWF_FILE	MISSING	1	18-SEP-2006 01:02:36
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ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060918_020651_000057382051_00189_23790_0581.N1	11	18-SEP-2006 02:16:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060918_034748_000057382051_00190_23791_0582.N1	27	18-SEP-2006 03:57:23
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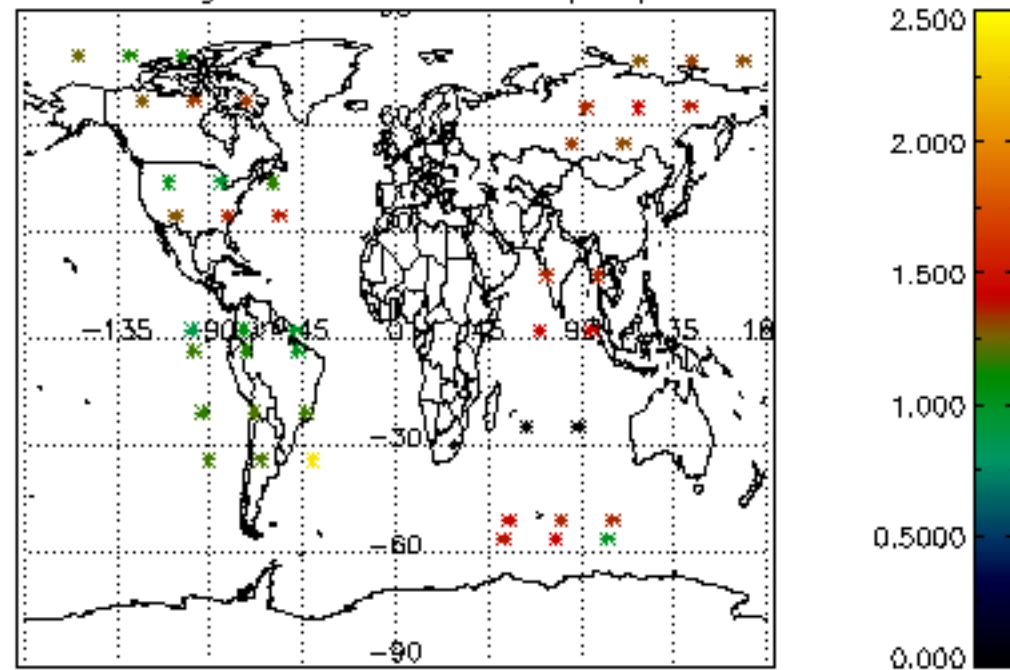




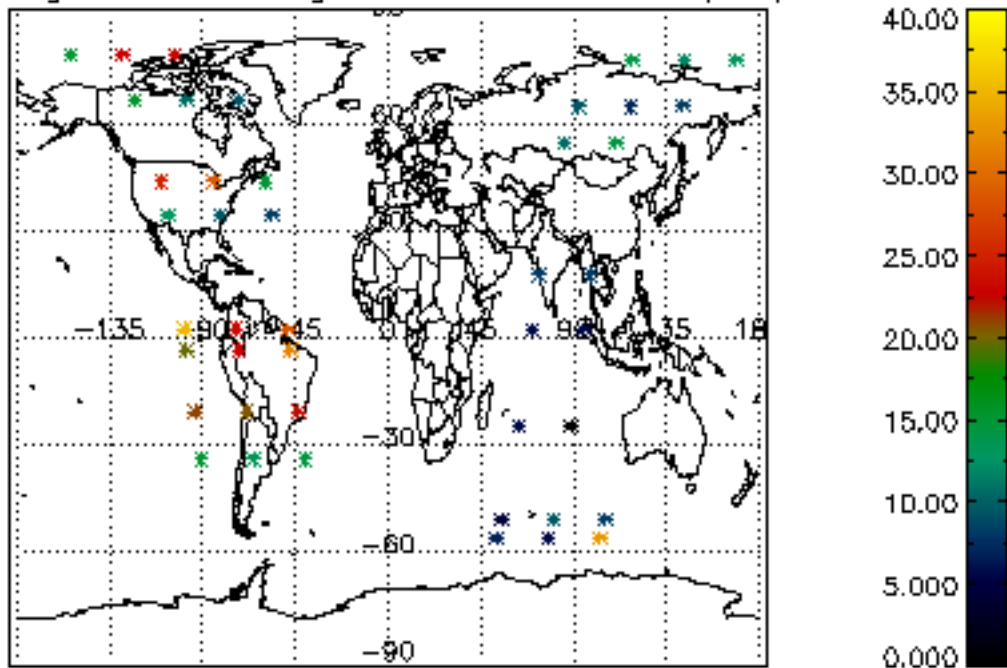
Percentage of cosmic ray hits per profile



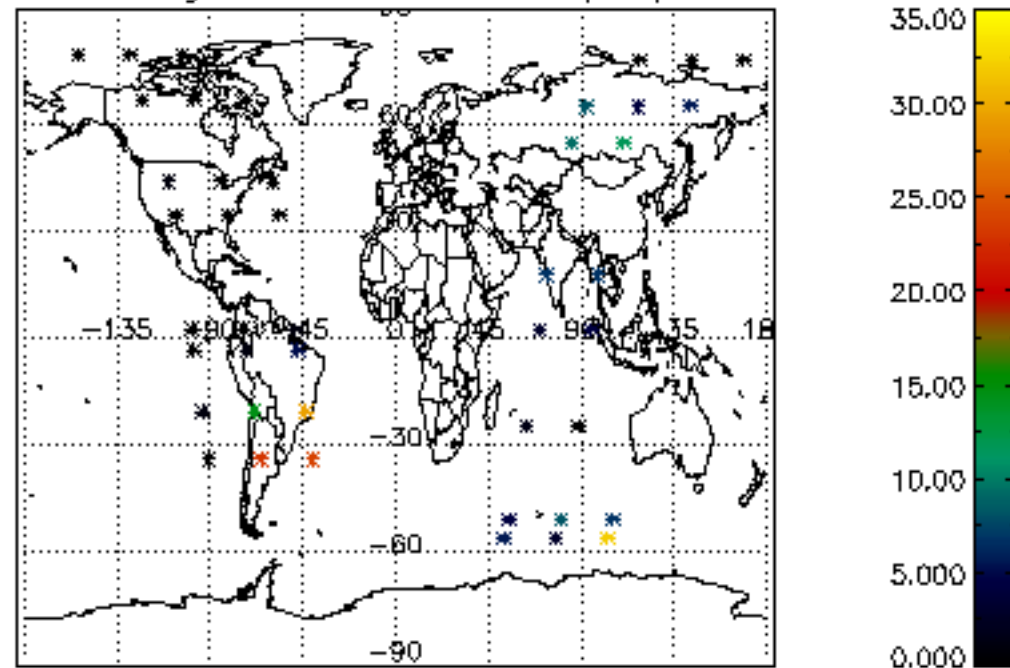
Percentage of datation errors per profile



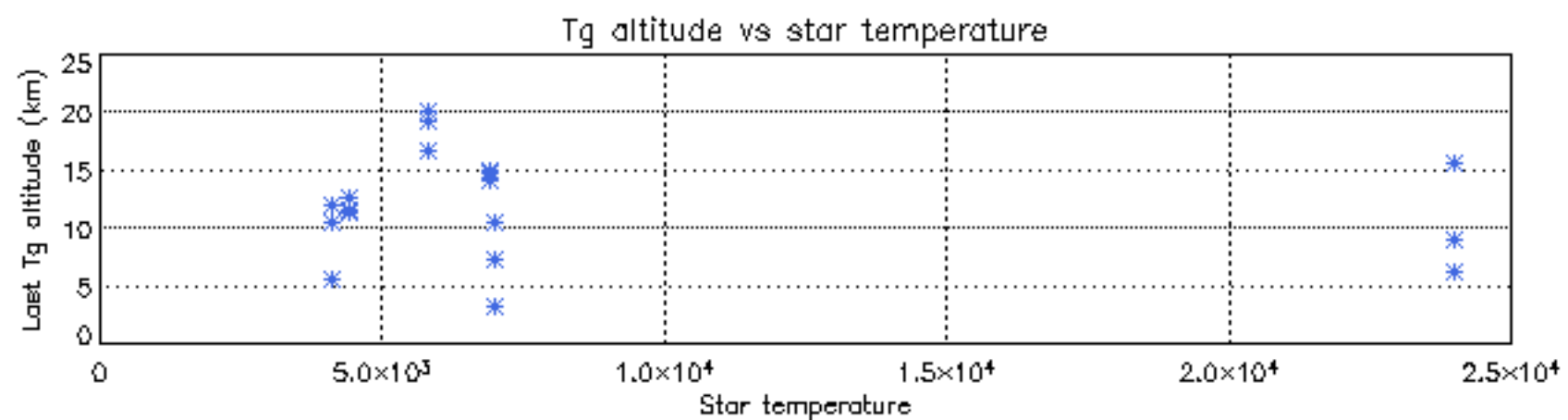
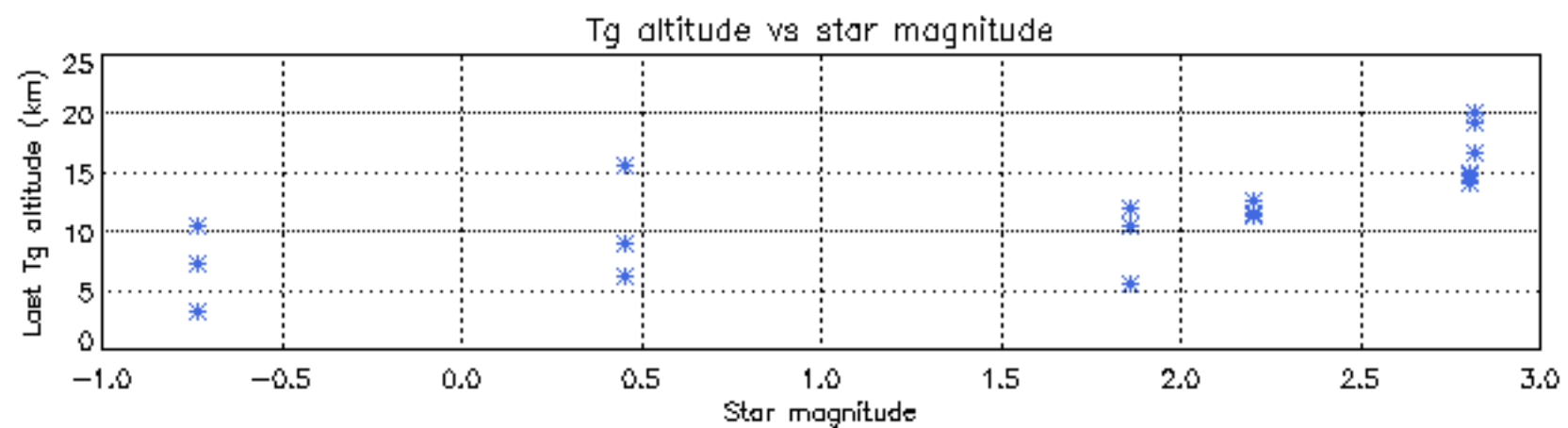
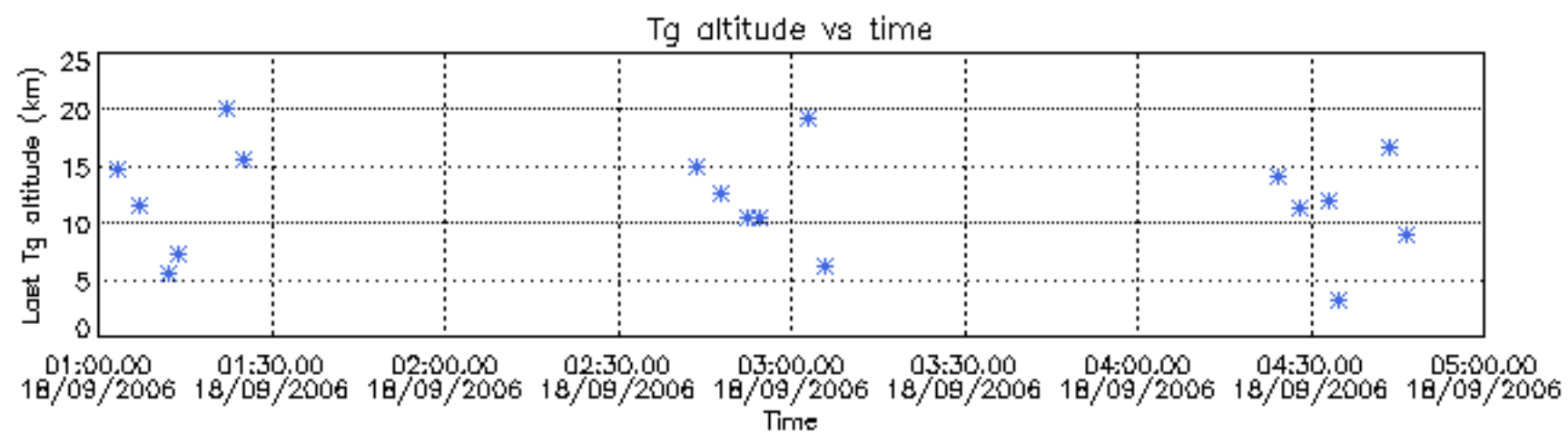
Percentage of star falling outside central band per profile



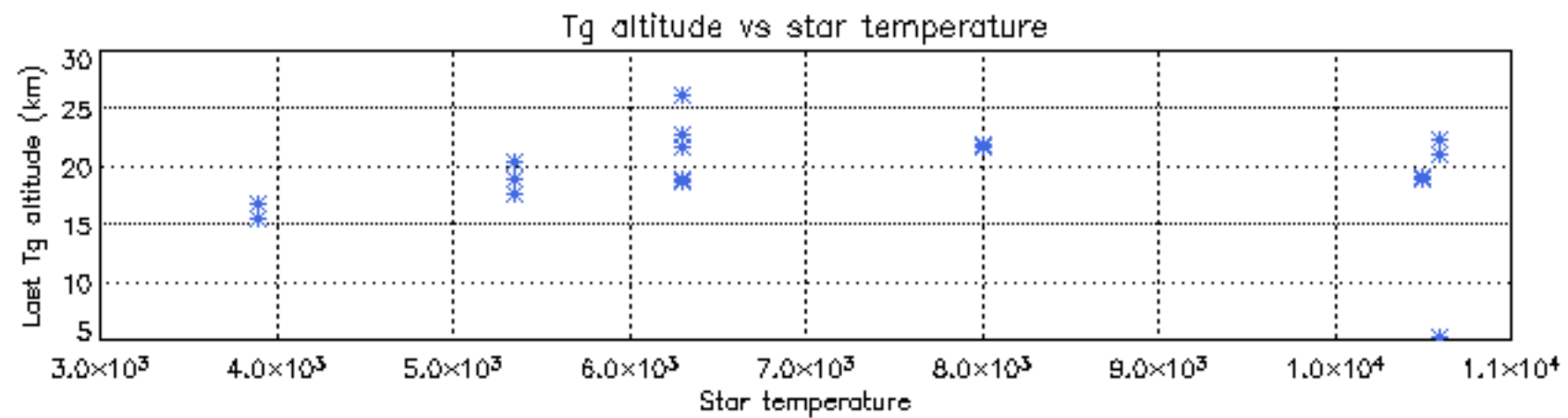
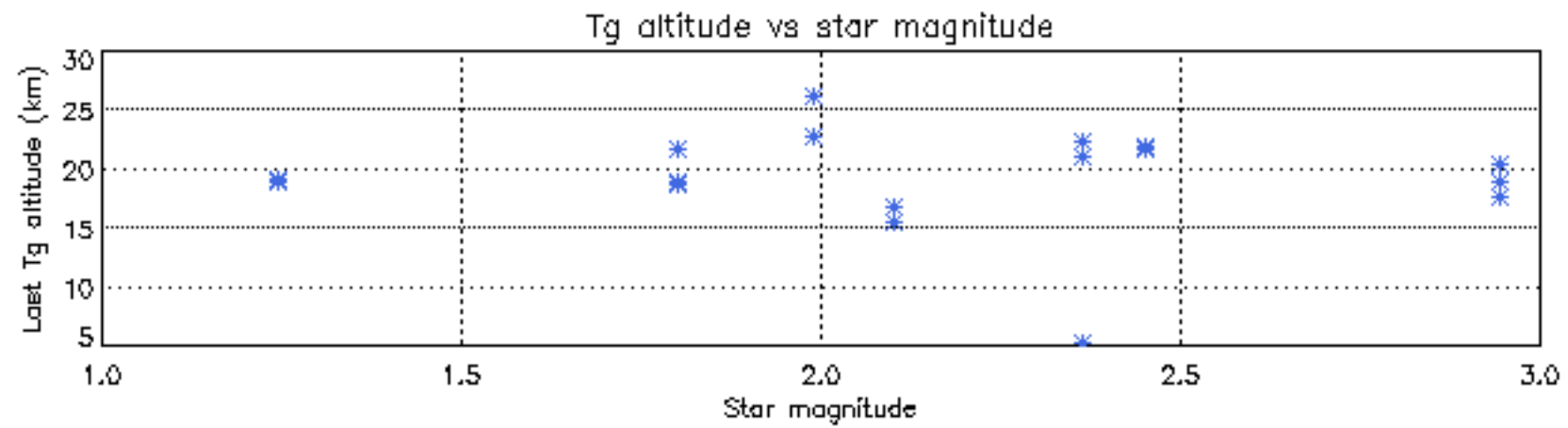
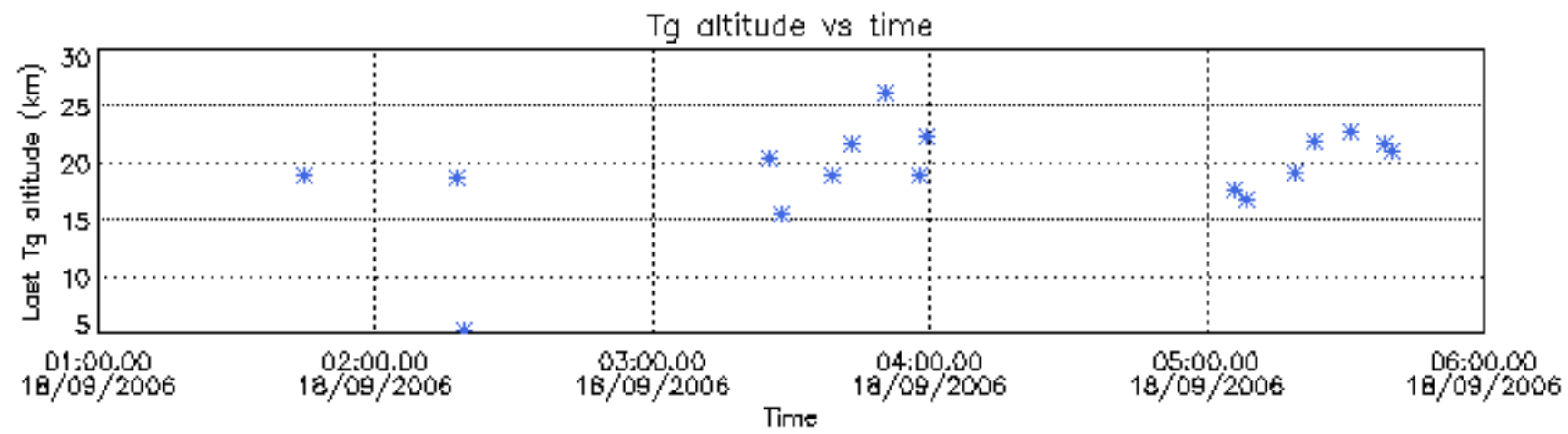
Percentage of saturation errors per profile

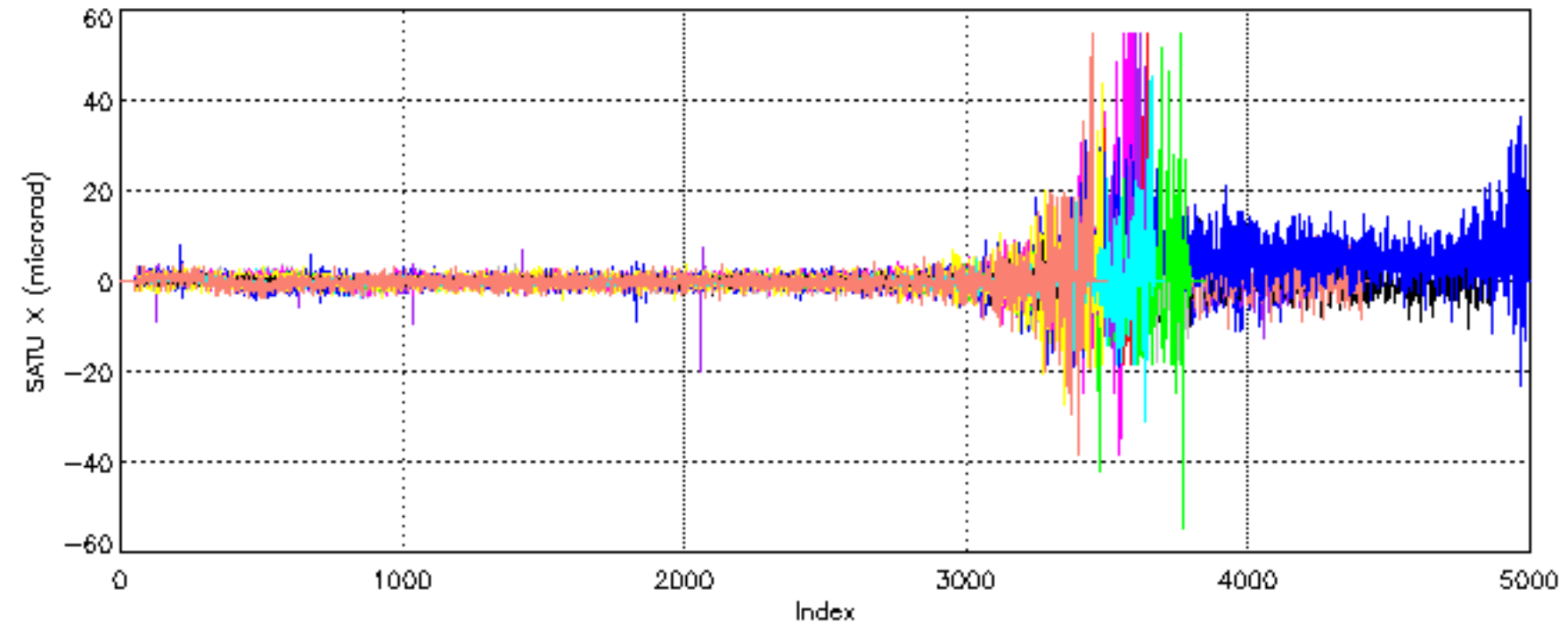


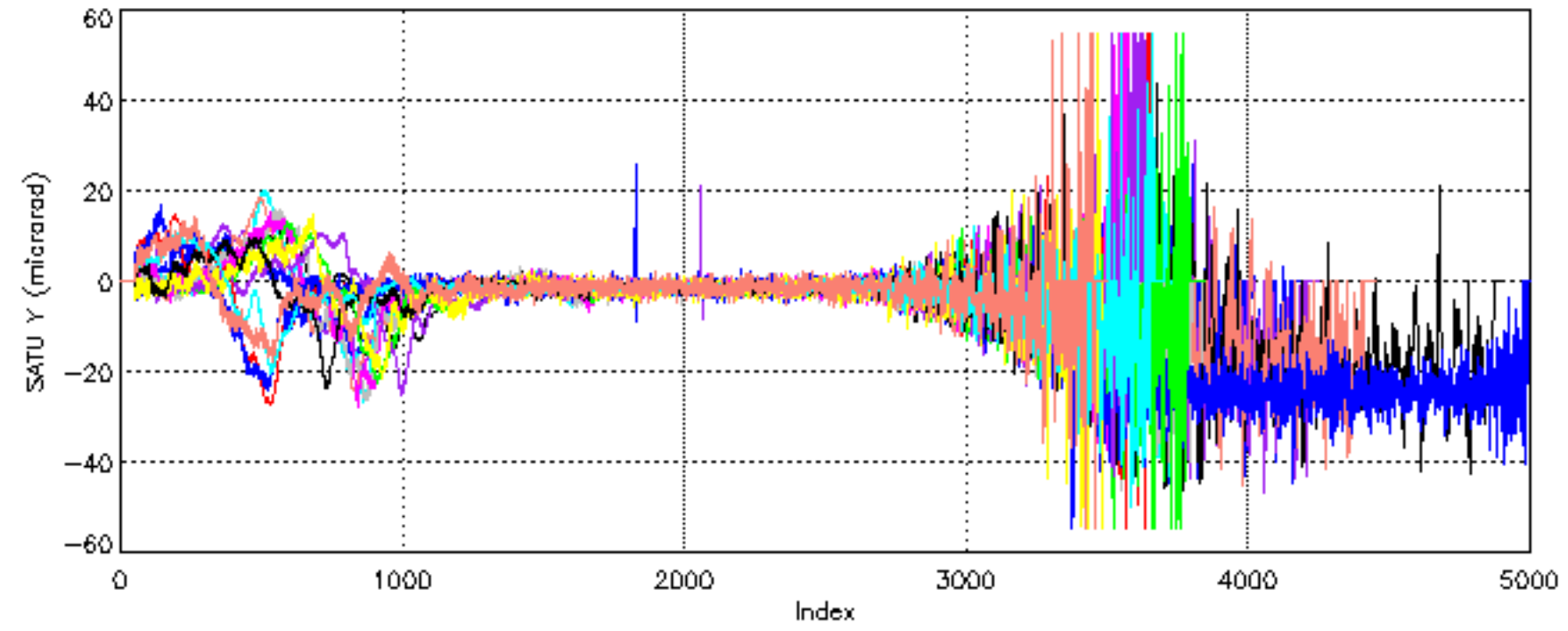
Tangent altitude at which the star is lost

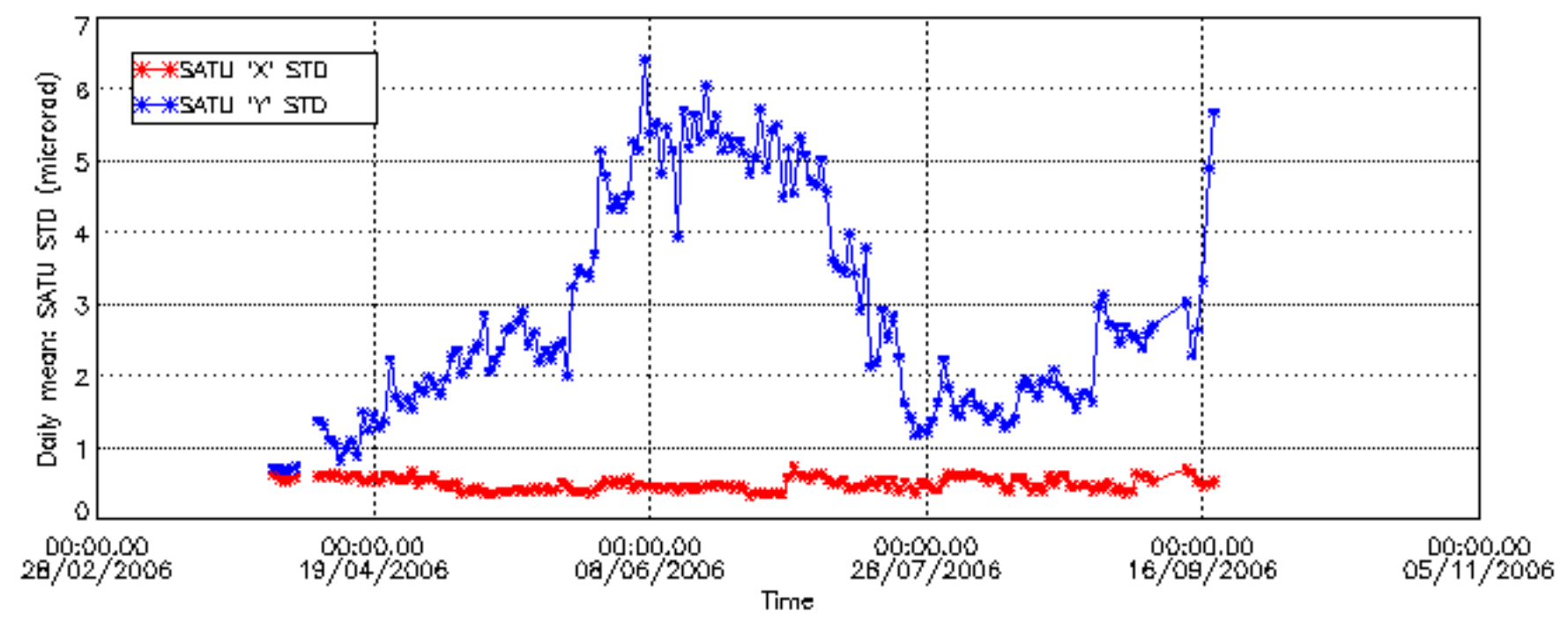


Tangent altitude at which the star is lost









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 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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 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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