

GOMOS Daily Report 22-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	24SEP2006 05:32:09
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (22SEP2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (23SEP2006 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

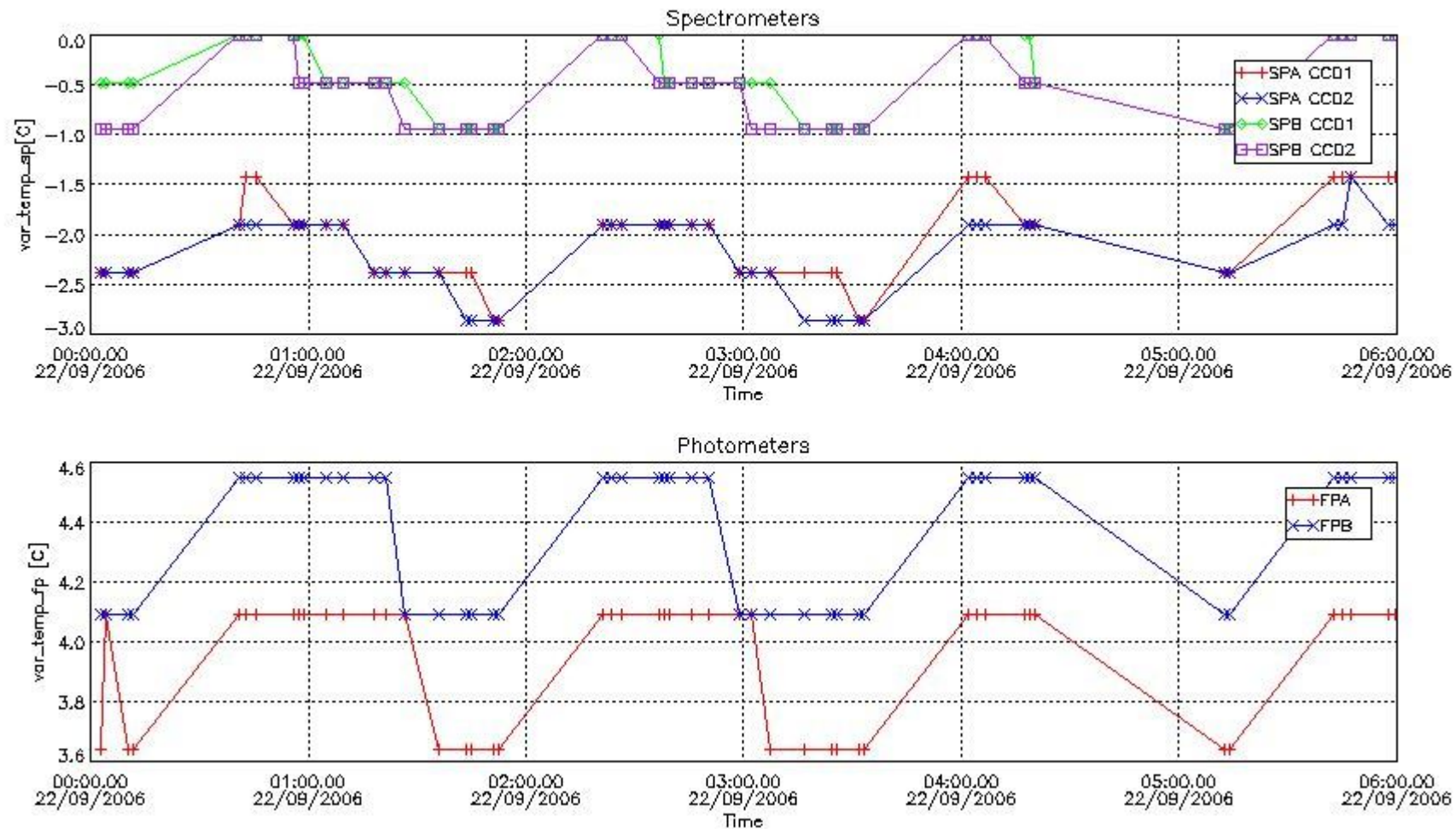
2.1 Level 0 products arrived in PCF (see template [here](#))

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_1PNPDE20060922_000253_000000362051_00245_23846_1382.N1	22-SEP-2006 00:02:53	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	23846	No
2	GOM_TRA_1PNPDE20060922_000416_000000362051_00245_23846_1383.N1	22-SEP-2006 00:04:16	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	23846	No
3	GOM_TRA_1PNPDE20060922_001029_000000362051_00245_23846_1384.N1	22-SEP-2006 00:10:29	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	23846	No
4	GOM_TRA_1PNPDE20060922_001157_000000342051_00245_23846_1385.N1	22-SEP-2006 00:11:57	Bright	33.500	82	48Bet UMa	2.3650	10600.	67	23846	No
5	GOM_TRA_1PNPDE20060922_004043_000000442051_00245_23846_1376.N1	22-SEP-2006 00:40:43	Dark	44.000	65	Lam Vel	2.2040	4400.0	88	23846	No
6	GOM_TRA_1PNPDE20060922_004255_000000392051_00245_23846_1377.N1	22-SEP-2006 00:42:55	Dark	39.000	34	Gam2Vel	1.7930	23000.	78	23846	No
7	GOM_TRA_1PNPDE20060922_004535_000000422051_00245_23846_1378.N1	22-SEP-2006 00:45:35	Dark	42.000	41	Eps Car	1.8600	4100.0	84	23846	No
8	GOM_TRA_1PNPDE20060922_005604_000000372051_00246_23847_1379.N1	22-SEP-2006 00:56:04	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	23847	No
9	GOM_TRA_1PNPDE20060922_005736_000000392051_00246_23847_1380.N1	22-SEP-2006 00:57:36	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	23847	No
10	GOM_TRA_1PNPDE20060922_005903_000000482051_00246_23847_1381.N1	22-SEP-2006 00:59:03	Dark	48.000	9	Alp Eri	0.45300	24000.	96	23847	No
11	GOM_TRA_1PNPDE20060922_010501_000000432051_00246_23847_1382.N1	22-SEP-2006 01:05:01	Straylight	43.000	63	Bet Gru	2.1500	2800.0	86	23847	No
12	GOM_TRA_1PNPDE20060922_010936_000000442051_00246_23847_1383.N1	22-SEP-2006 01:09:36	Straylight	43.500	18	24Alp PsA	1.1660	9700.0	87	23847	No
13	GOM_TRA_1PNPDE20060922_011816_000000372051_00246_23847_1384.N1	22-SEP-2006 01:18:16	Bright	36.500	162	34Alp Aqr	2.9440	5350.0	73	23847	No
14	GOM_TRA_1PNPDE20060922_012119_000000372051_00246_23847_1385.N1	22-SEP-2006 01:21:19	Bright	37.000	61	8Eps Peg	2.1000	3900.0	74	23847	No
15	GOM_TRA_1PNPDE20060922_012643_000000372051_00246_23847_1386.N1	22-SEP-2006 01:26:43	Bright	36.500	164	44Eta Peg	2.9480	5400.0	73	23847	No
16	GOM_TRA_1PNPDE20060922_013558_000000362051_00246_23847_1387.N1	22-SEP-2006 01:35:58	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	23847	No
17	GOM_TRA_1PNPDE20060922_014329_000000362051_00246_23847_1388.N1	22-SEP-2006 01:43:29	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	23847	No
18	GOM_TRA_1PNPDE20060922_014452_000000522051_00246_23847_1389.N1	22-SEP-2006 01:44:52	Bright	51.500	60	7Bet UMi	2.0810	3950.0	103	23847	No
19	GOM_TRA_1PNPDE20060922_015105_000000362051_00246_23847_1390.N1	22-SEP-2006 01:51:05	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	23847	No
20	GOM_TRA_1PNPDE20060922_015233_000000352051_00246_23847_1391.N1	22-SEP-2006 01:52:33	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	23847	No
21	GOM_TRA_1PNPDE20060922_022119_000000452051_00246_23847_1377.N1	22-SEP-2006 02:21:19	Dark	44.500	65	Lam Vel	2.2040	4400.0	89	23847	No
22	GOM_TRA_1PNPDE20060922_022331_000000412051_00246_23847_1378.N1	22-SEP-2006 02:23:31	Dark	41.000	34	Gam2Vel	1.7930	23000.	82	23847	No
23	GOM_TRA_1PNPDE20060922_022611_000000462051_00246_23847_1379.N1	22-SEP-2006 02:26:11	Dark	46.000	41	Eps Car	1.8600	4100.0	92	23847	No
24	GOM_TRA_1PNPDE20060922_023640_000000382051_00247_23848_1380.N1	22-SEP-2006 02:36:40	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	23848	No
25	GOM_TRA_1PNPDE20060922_023812_000000402051_00247_23848_1381.N1	22-SEP-2006 02:38:12	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	23848	No
26	GOM_TRA_1PNPDE20060922_023939_000000472051_00247_23848_1382.N1	22-SEP-2006 02:39:39	Dark	46.500	9	Alp Eri	0.45300	24000.	93	23848	No
27	GOM_TRA_1PNPDE20060922_024537_000000412051_00247_23848_1383.N1	22-SEP-2006 02:45:37	Straylight	40.500	63	Bet Gru	2.1500	2800.0	81	23848	No
28	GOM_TRA_1PNPDE20060922_025012_000000452051_00247_23848_1384.N1	22-SEP-2006 02:50:12	Straylight	44.500	18	24Alp PsA	1.1660	9700.0	89	23848	No
29	GOM_TRA_1PNPDE20060922_025852_000000372051_00247_23848_1385.N1	22-SEP-2006 02:58:52	Bright	36.500	162	34Alp Aqr	2.9440	5350.0	73	23848	No
30	GOM_TRA_1PNPDE20060922_030155_000000382051_00247_23848_1386.N1	22-SEP-2006 03:01:55	Bright	37.500	61	8Eps Peg	2.1000	3900.0	75	23848	No
31	GOM_TRA_1PNPDE20060922_030719_000000382051_00247_23848_1387.N1	22-SEP-2006 03:07:19	Bright	37.500	164	44Eta Peg	2.9480	5400.0	75	23848	No
32	GOM_TRA_1PNPDE20060922_031634_000000352051_00247_23848_1388.N1	22-SEP-2006 03:16:34	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	23848	No
33	GOM_TRA_1PNPDE20060922_032405_000000342051_00247_23848_1389.N1	22-SEP-2006 03:24:05	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	23848	No
34	GOM_TRA_1PNPDE20060922_032528_000000502051_00247_23848_1372.N1	22-SEP-2006 03:25:28	Bright	49.500	60	7Bet UMi	2.0810	3950.0	99	23848	No
35	GOM_TRA_1PNPDE20060922_033141_000000362051_00247_23848_1373.N1	22-SEP-2006 03:31:41	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	23848	No
36	GOM_TRA_1PNPDE20060922_033309_000000362051_00247_23848_1374.N1	22-SEP-2006 03:33:09	Bright	35.500	82	48Bet UMa	2.3650	10600.	71	23848	No
37	GOM_TRA_1PNPDE20060922_040156_000000432051_00247_23848_1375.N1	22-SEP-2006 04:01:56	Dark	43.000	65	Lam Vel	2.2040	4400.0	86	23848	No
38	GOM_TRA_1PNPDE20060922_040408_000000422051_00247_23848_1376.N1	22-SEP-2006 04:04:08	Dark	41.500	34	Gam2Vel	1.7930	23000.	83	23848	No
39	GOM_TRA_1PNPDE20060922_040648_000000422051_00247_23848_1377.N1	22-SEP-2006 04:06:48	Dark	41.500	41	Eps Car	1.8600	4100.0	83	23848	No
40	GOM_TRA_1PNPDE20060922_041716_000000372051_00248_23849_1378.N1	22-SEP-2006 04:17:16	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	23849	No
41	GOM_TRA_1PNPDE20060922_041849_000000392051_00248_23849_1379.N1	22-SEP-2006 04:18:49	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	23849	No
42	GOM_TRA_1PNPDE20060922_042016_000000422051_00248_23849_1380.N1	22-SEP-2006 04:20:16	Dark	42.000	9	Alp Eri	0.45300	24000.	84	23849	No

43	GOM_TRA_1PNPDE20060922_051218_000000362051_00248_23849_1373.N1	22-SEP-2006 05:12:18	Bright	35.500	36	50Alp UMa	1.8000	6300.0	71	23849	No
44	GOM_TRA_1PNPDE20060922_051346_000000362051_00248_23849_1374.N1	22-SEP-2006 05:13:46	Bright	35.500	82	48Bet UMa	2.3650	10600.	71	23849	No
45	GOM_TRA_1PNPDE20060922_054232_000000472051_00248_23849_1375.N1	22-SEP-2006 05:42:32	Dark	47.000	65	Lam Vel	2.2040	4400.0	94	23849	No
46	GOM_TRA_1PNPDE20060922_054444_000000402051_00248_23849_1376.N1	22-SEP-2006 05:44:44	Dark	39.500	34	Gam2Vel	1.7930	23000.	79	23849	No
47	GOM_TRA_1PNPDE20060922_054724_000000422051_00248_23849_1377.N1	22-SEP-2006 05:47:24	Dark	41.500	41	Eps Car	1.8600	4100.0	83	23849	No
48	GOM_TRA_1PNPDE20060922_055752_000000362051_00249_23850_1378.N1	22-SEP-2006 05:57:52	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	23850	No
49	GOM_TRA_1PNPDE20060922_055925_000000382051_00249_23850_1379.N1	22-SEP-2006 05:59:25	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	23850	No

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



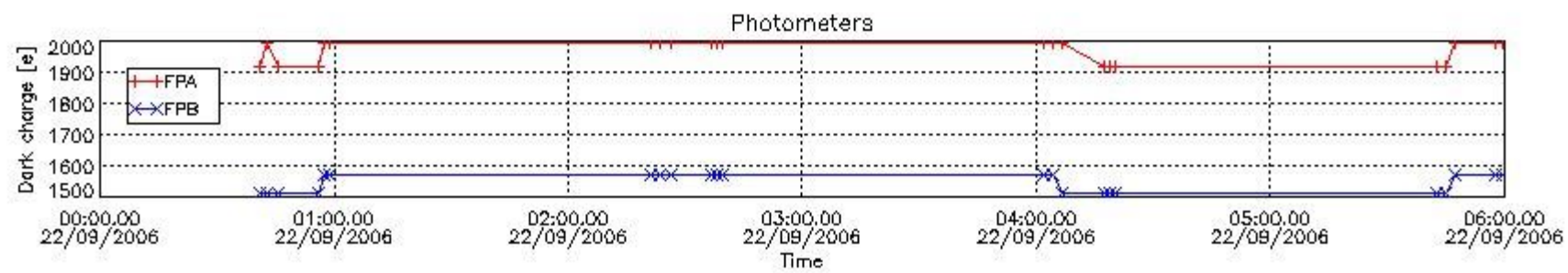
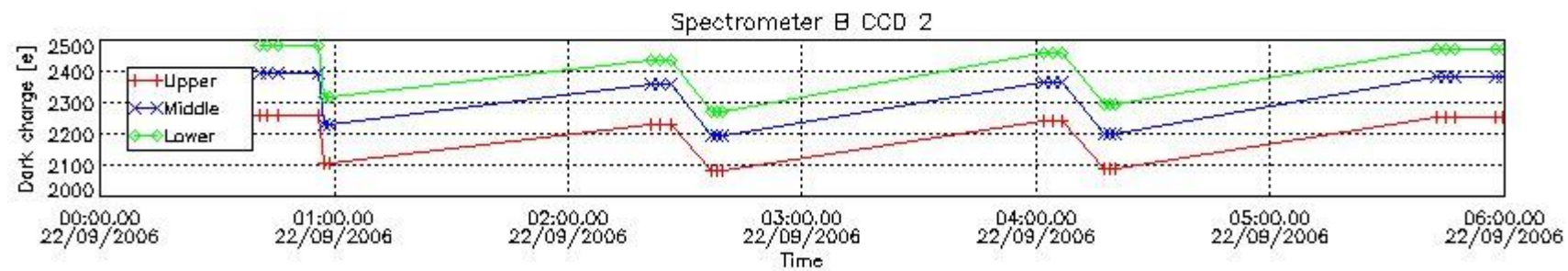
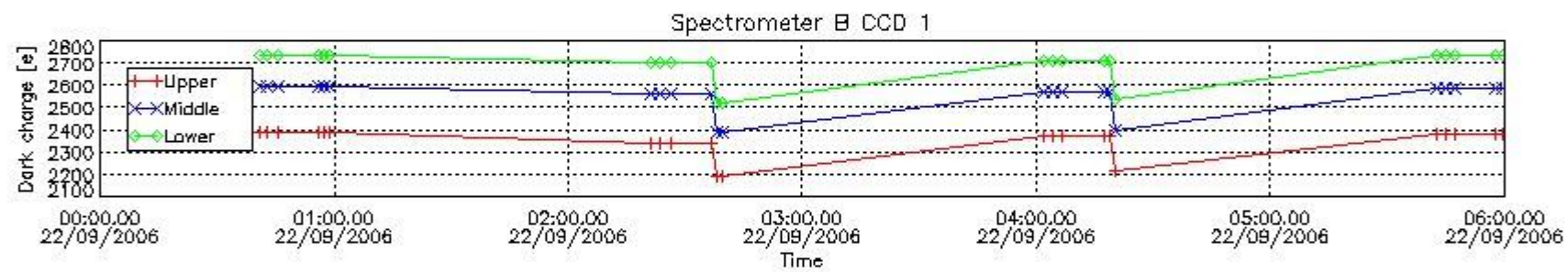
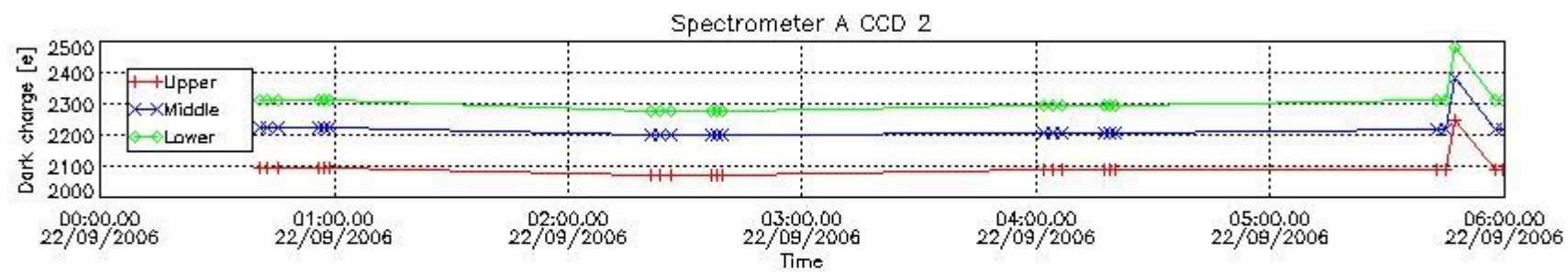
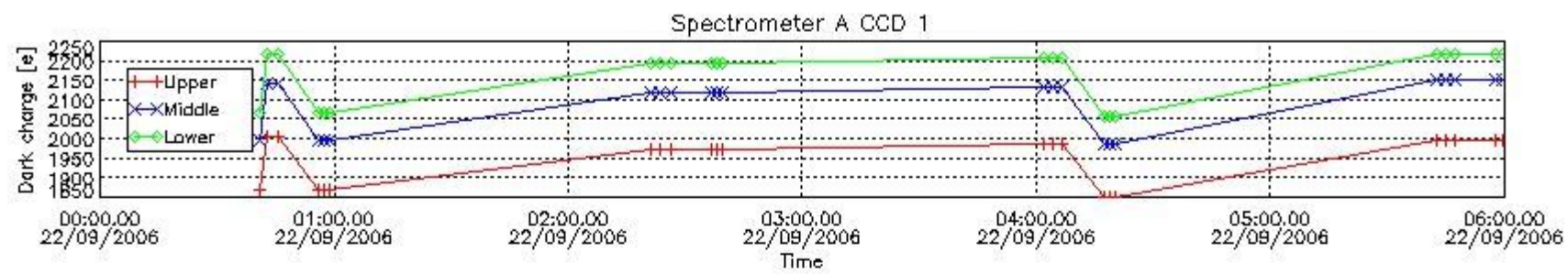
4. Overview of dark signal processing per product

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



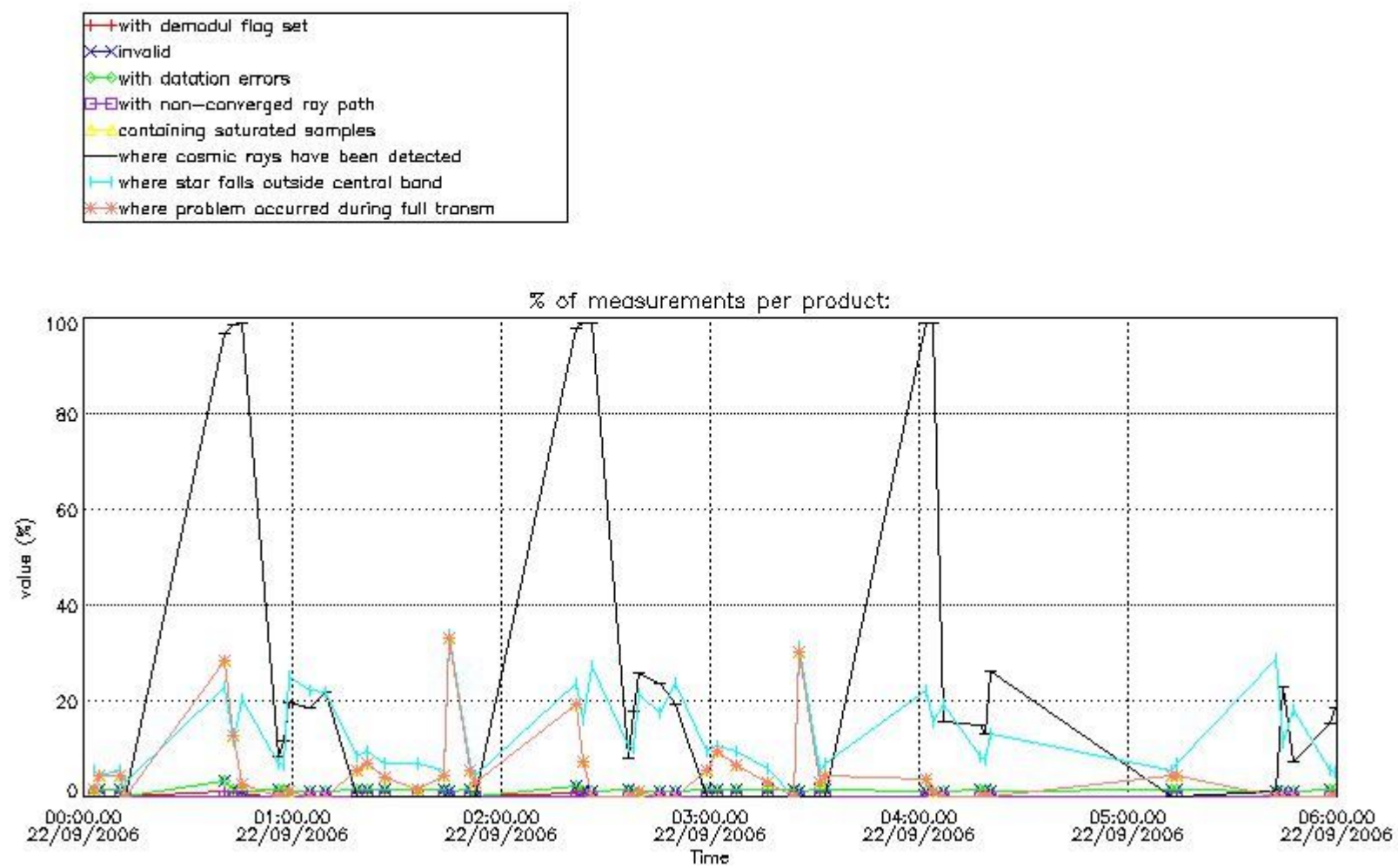
5. Demodulation flag and quality information monitoring

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.

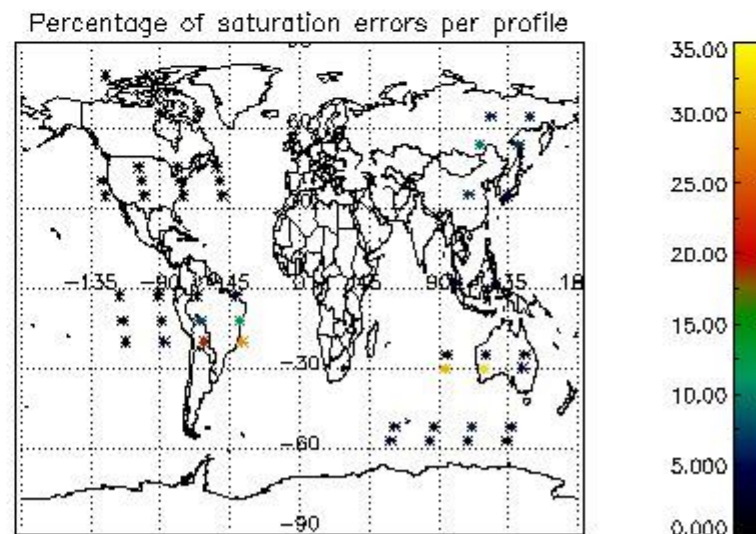
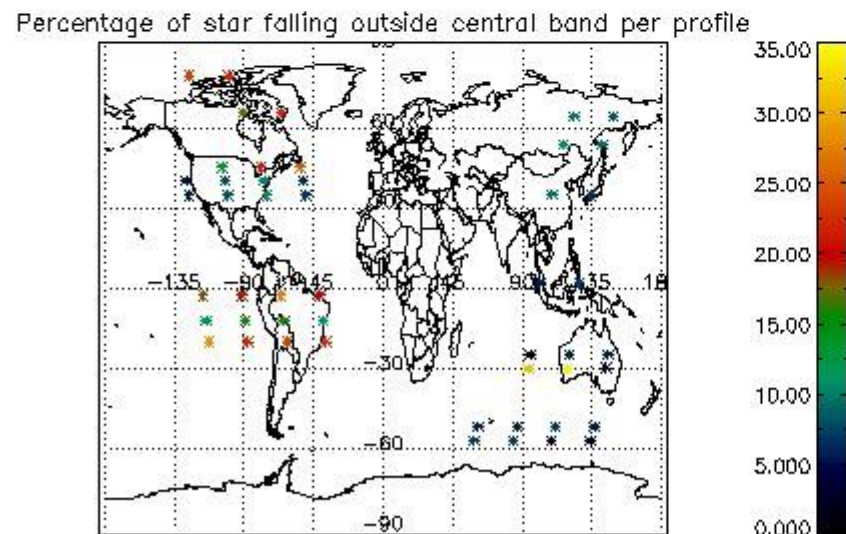
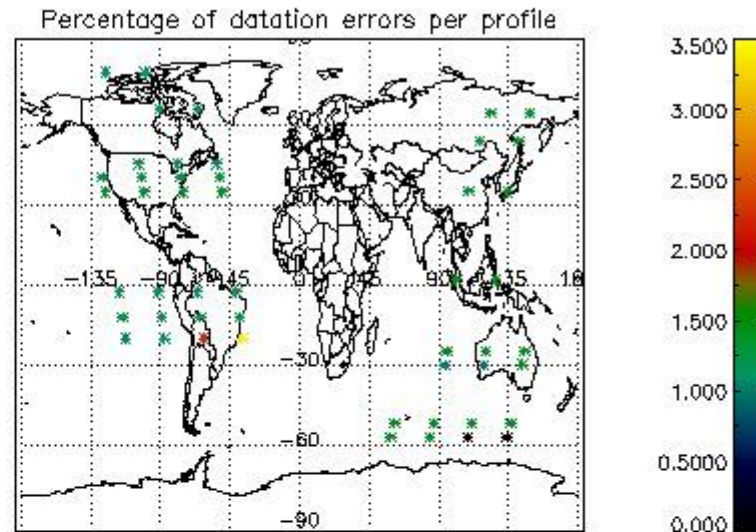
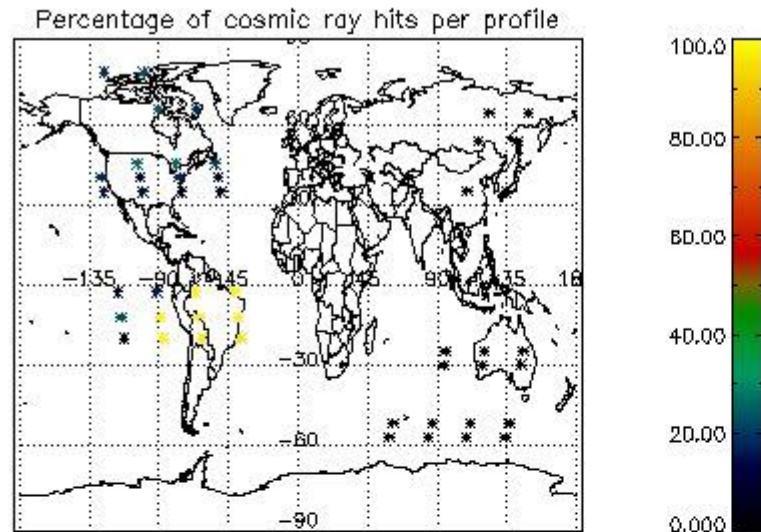
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.3265 %
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)



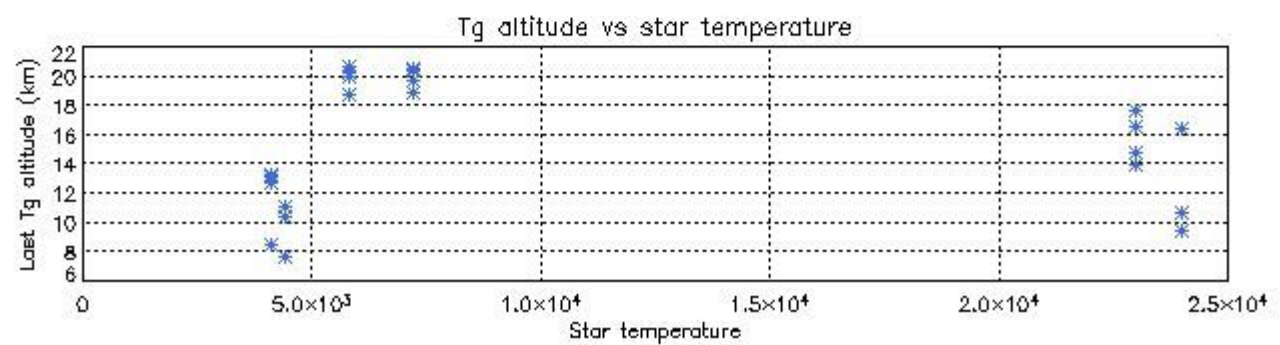
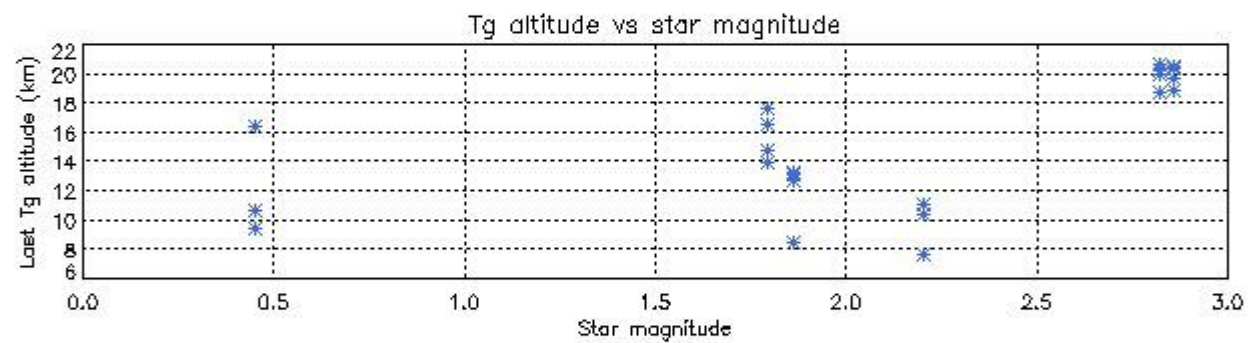
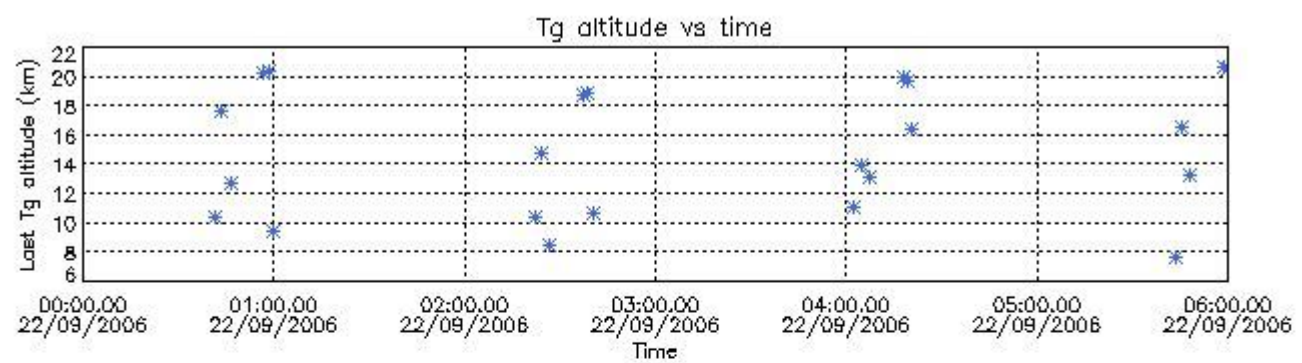
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.007	19.696	NaN
St. deviation:	4.3776	5.2309	NaN
Maximum:	20.585	25.608	NaN
Minimum:	7.6607	4.1459	NaN
Number of data:	23.000	22.000	NaN

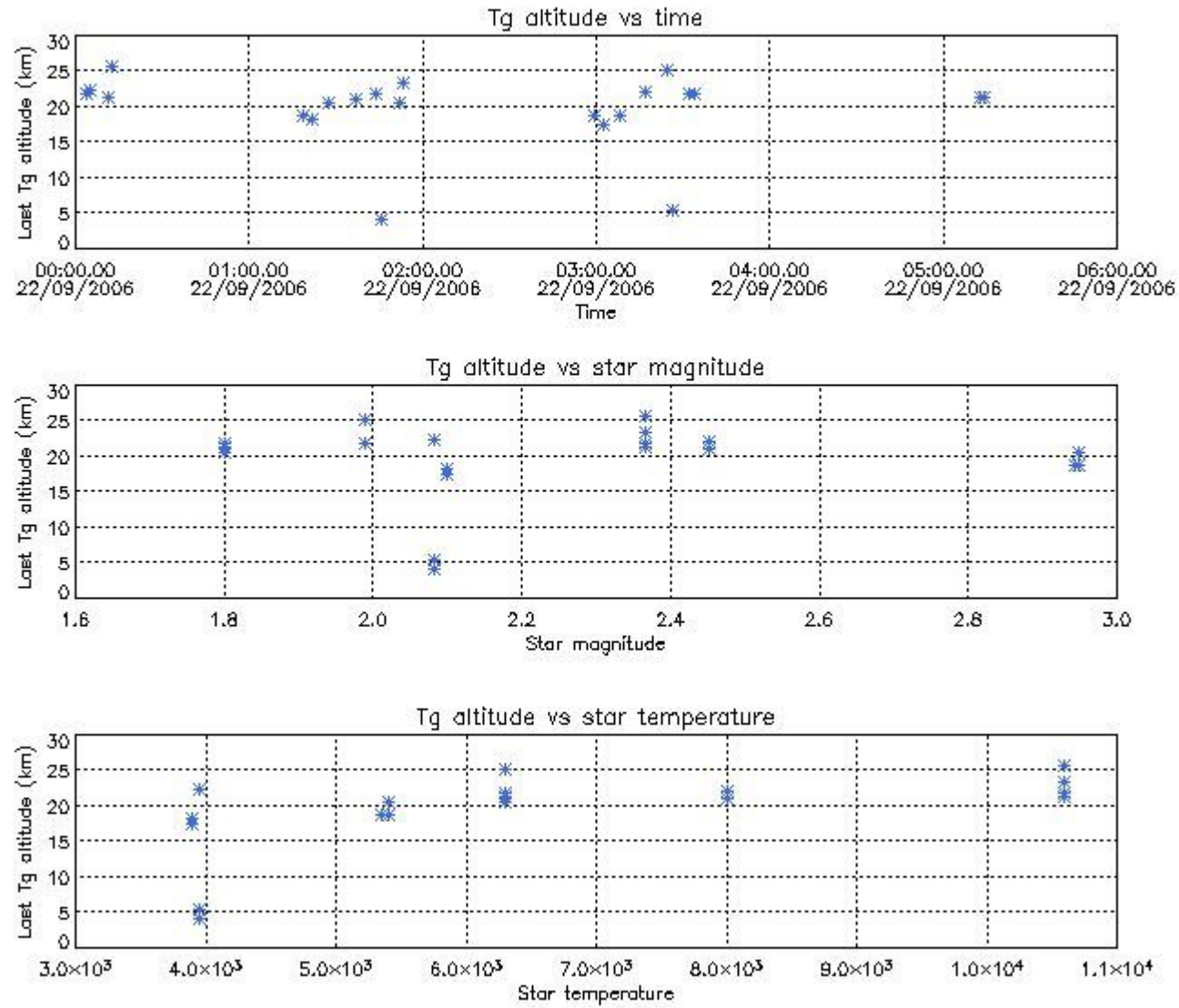
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

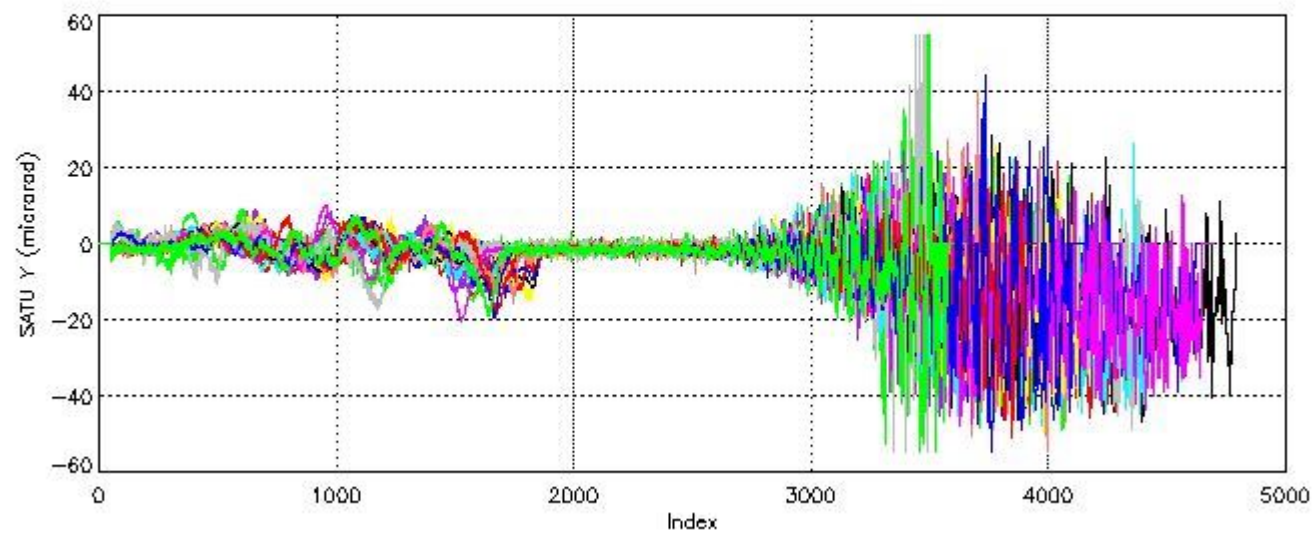
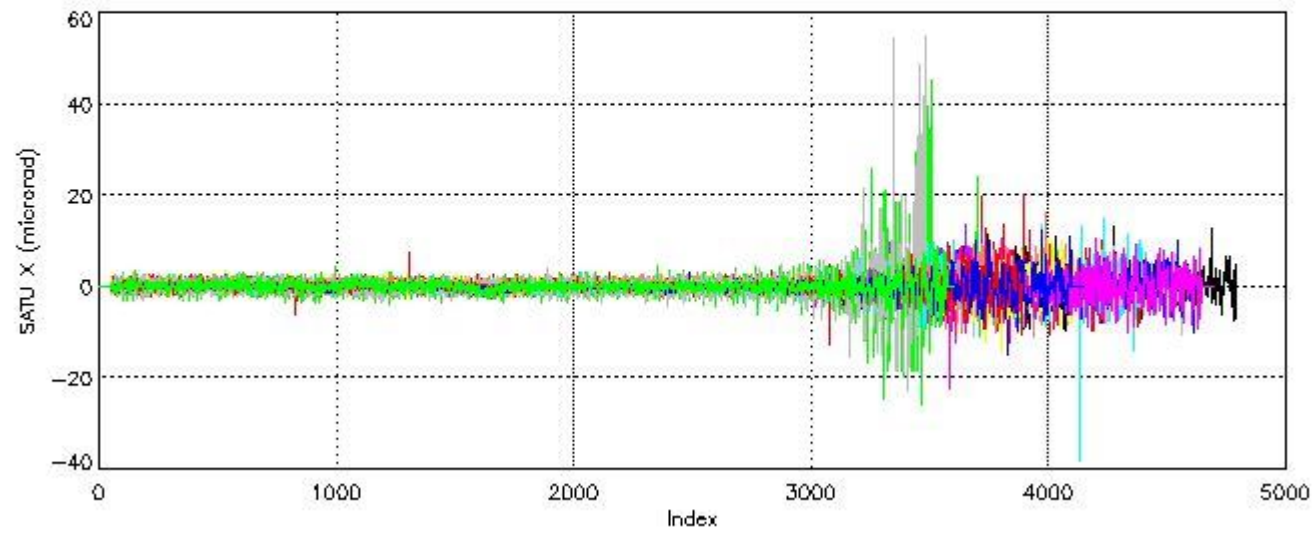


7. Star Acquisition and Tracking Unit (SATU)

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.

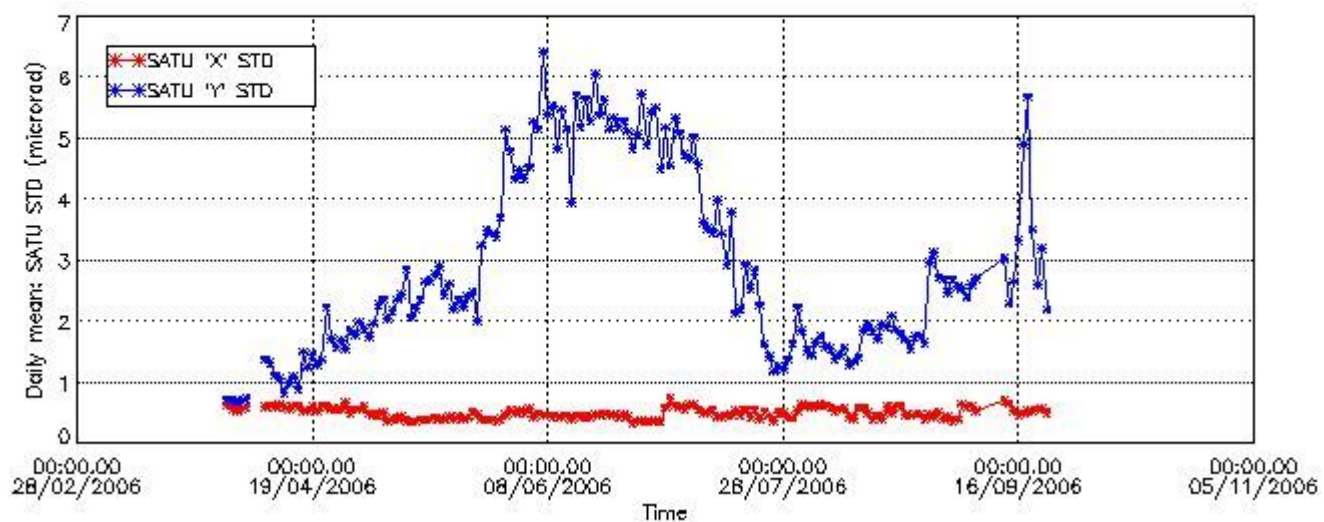
7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.088359	-0.30248	-0.014422	-0.29773
St. deviation:	0.49022	2.1811	0.65094	2.8598
Maximum:	3.3000	8.8000	3.6000	9.2000
Minimum:	-2.8000	-4.8000	-3.3000	-10.700

Number of data:	20300.	20300.	18400.	18400.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

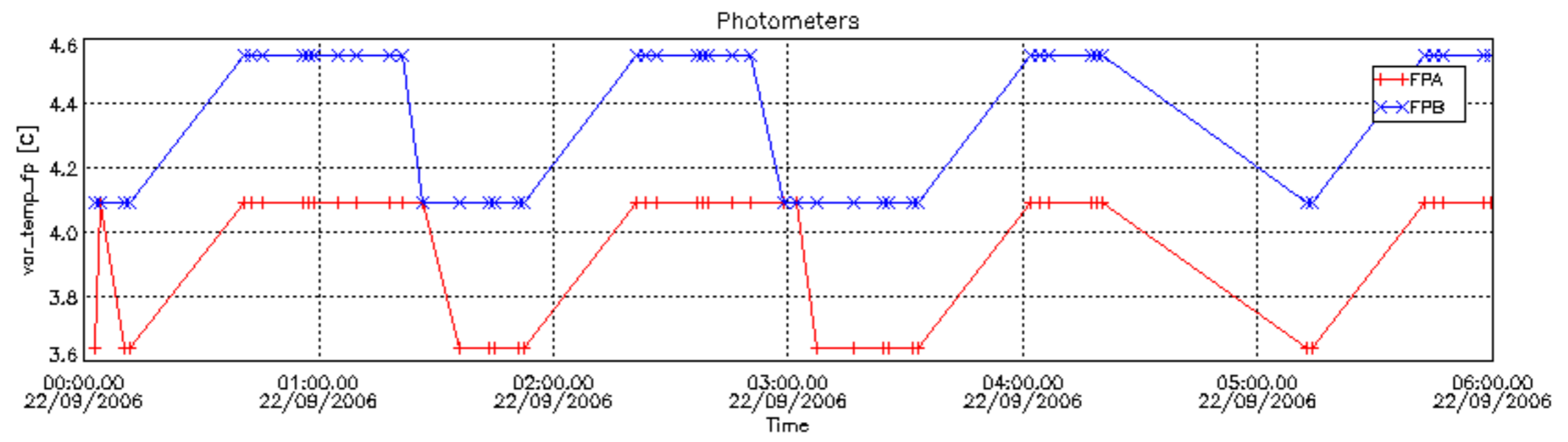
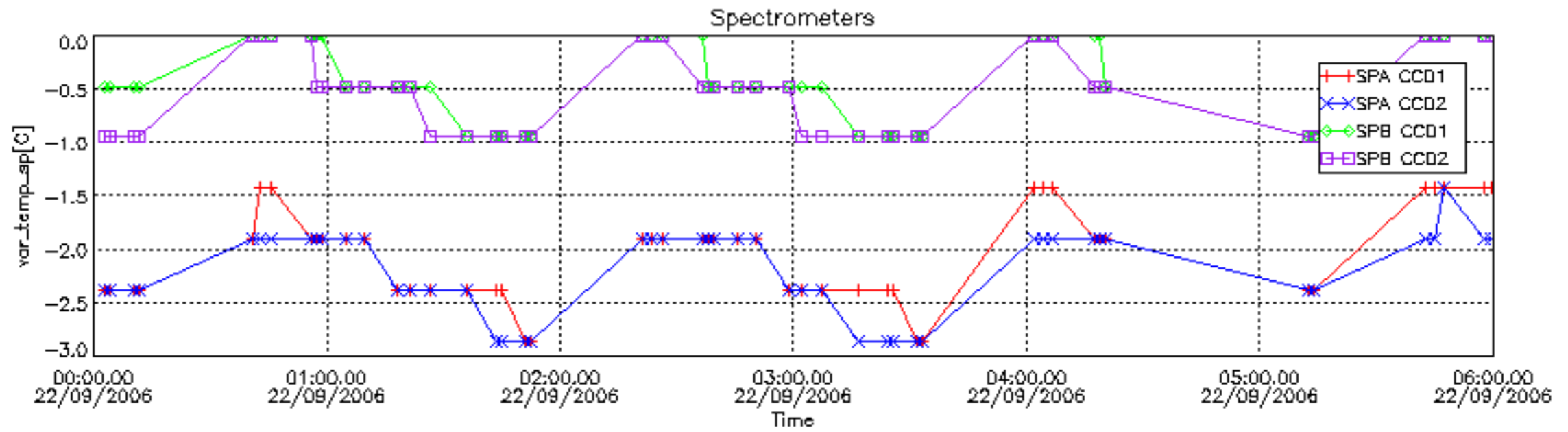
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

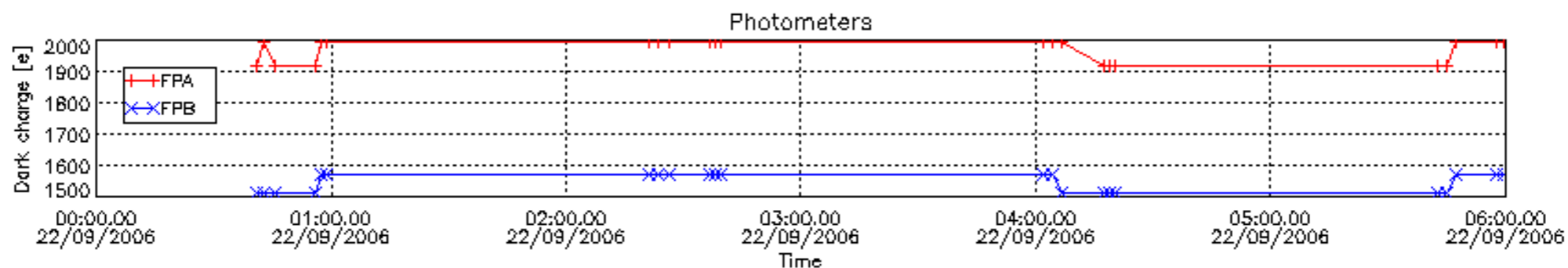
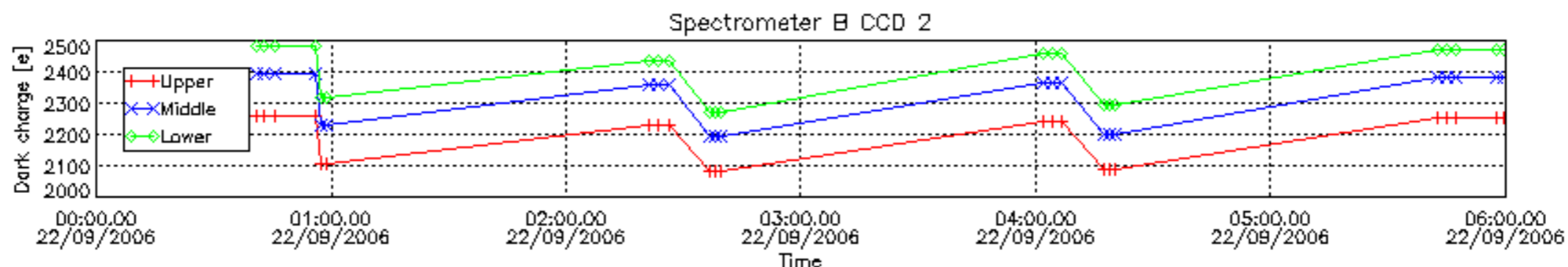
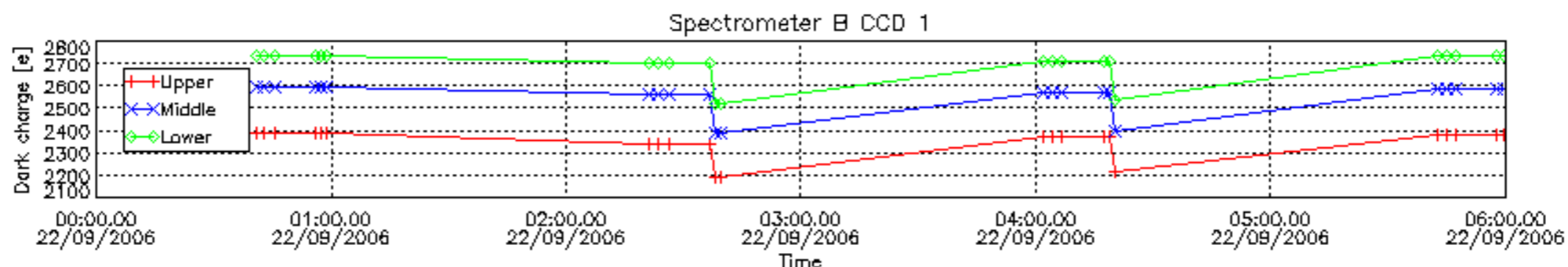
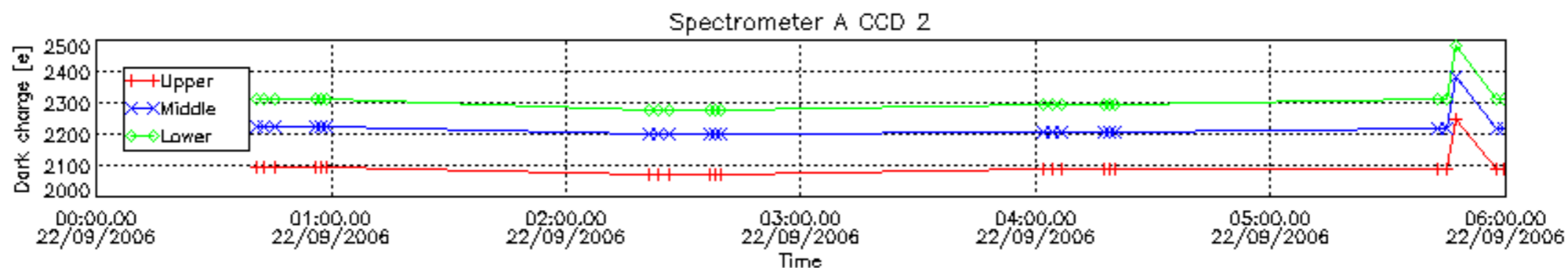
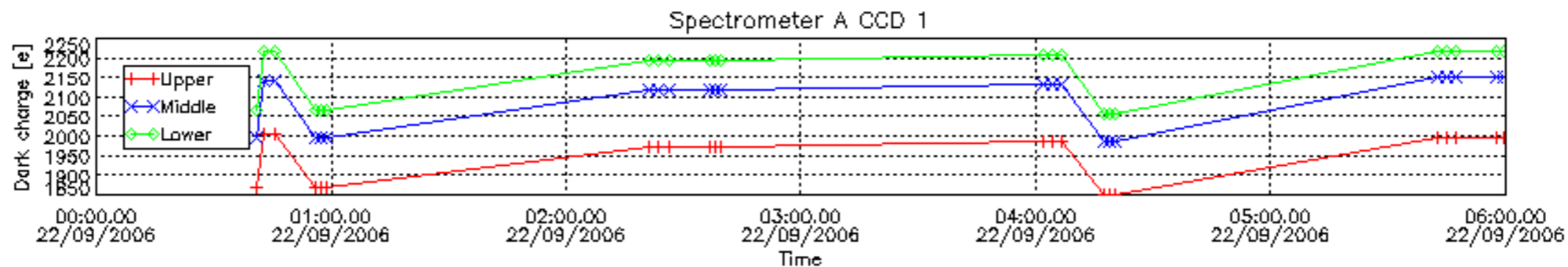


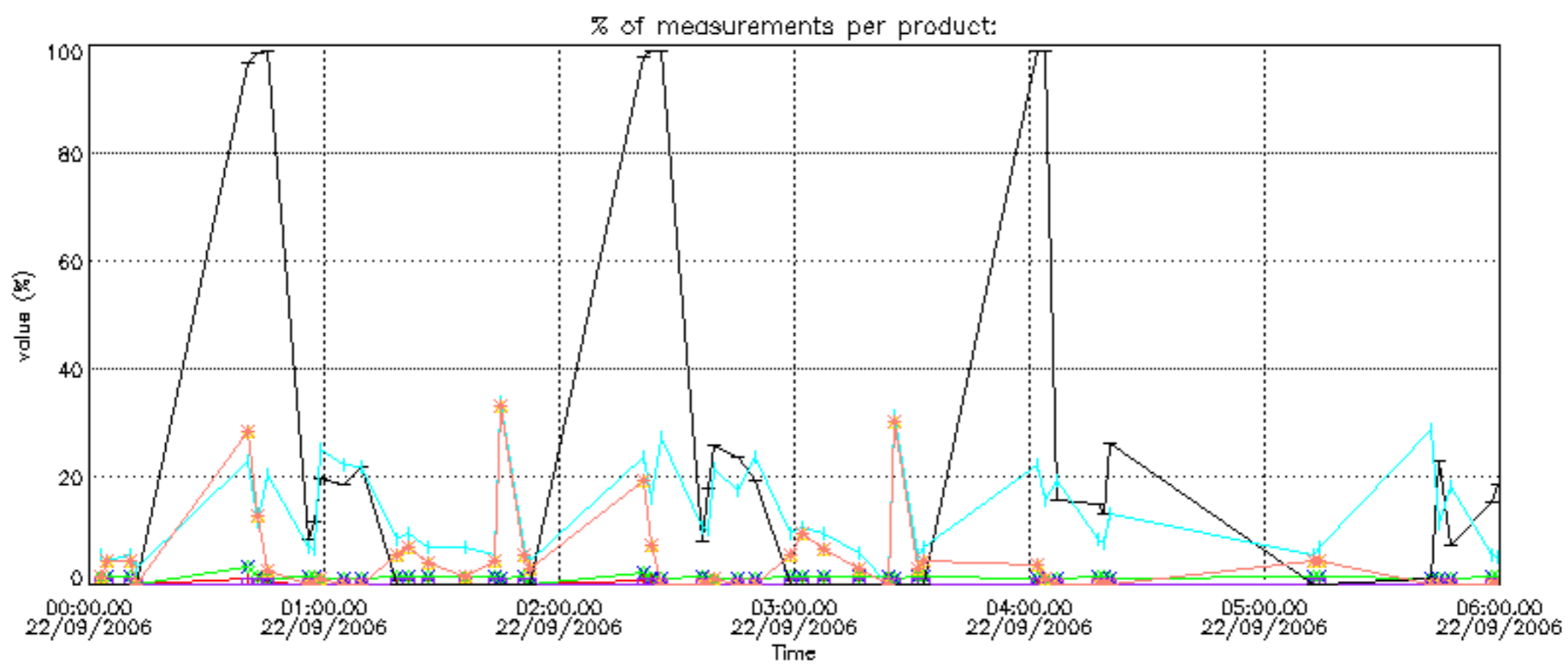
8. Auxiliary Data Files used for the production reported in section 2.2

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.

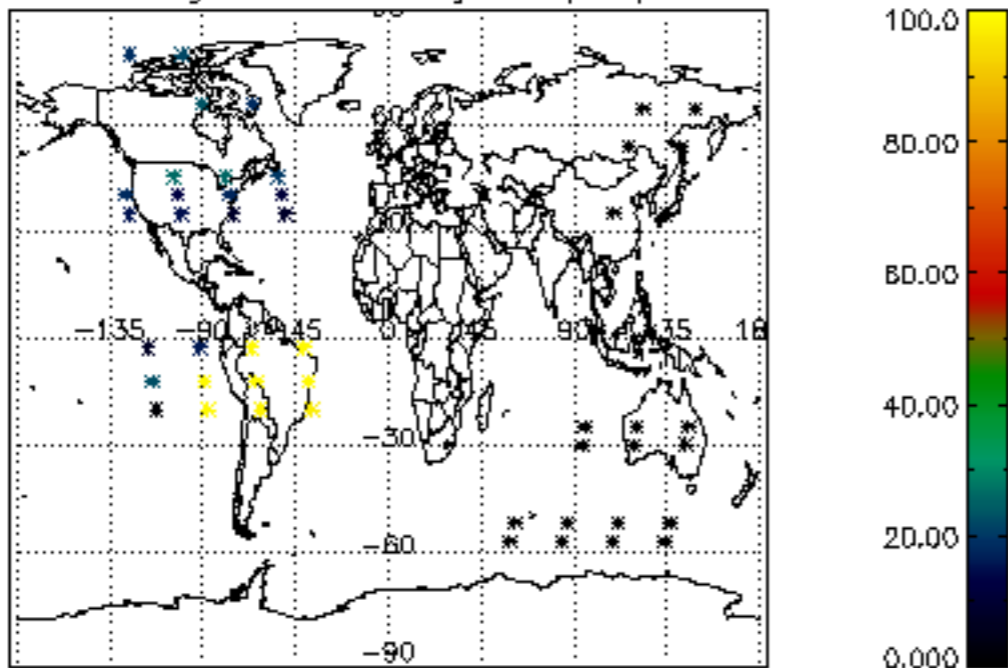
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	22-SEP-2006 00:02:53
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060918_152556_20060916_000000_20100101_000000	1	22-SEP-2006 00:02:53
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	22-SEP-2006 00:02:53
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	22-SEP-2006 00:02:53
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	22-SEP-2006 00:02:53
ECMWF_FILE	AUX_ECF_AXNECM20060921_062723_20060921_210000_20060922_090000	1	22-SEP-2006 00:02:53
ECMWF_FILE	AUX_ECA_AXNECM20060922_080024_20060921_210000_20060922_090000	5	22-SEP-2006 00:40:43
ECMWF_FILE	AUX_ECF_AXNECM20060921_233023_20060922_030000_20060922_150000	34	22-SEP-2006 03:25:28
OPTIONAL_ECMWF_FILE	MISSING	1	22-SEP-2006 00:02:53
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060921_210331_000060572051_00243_23844_0606.N1	1	22-SEP-2006 00:02:53
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060922_003043_000054192051_00245_23846_0608.N1	5	22-SEP-2006 00:40:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060922_020622_000041442051_00246_23847_0609.N1	21	22-SEP-2006 02:21:19
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060922_032045_000060572051_00247_23848_0610.N1	34	22-SEP-2006 03:25:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060922_050701_000057382051_00248_23849_0611.N1	43	22-SEP-2006 05:12:18



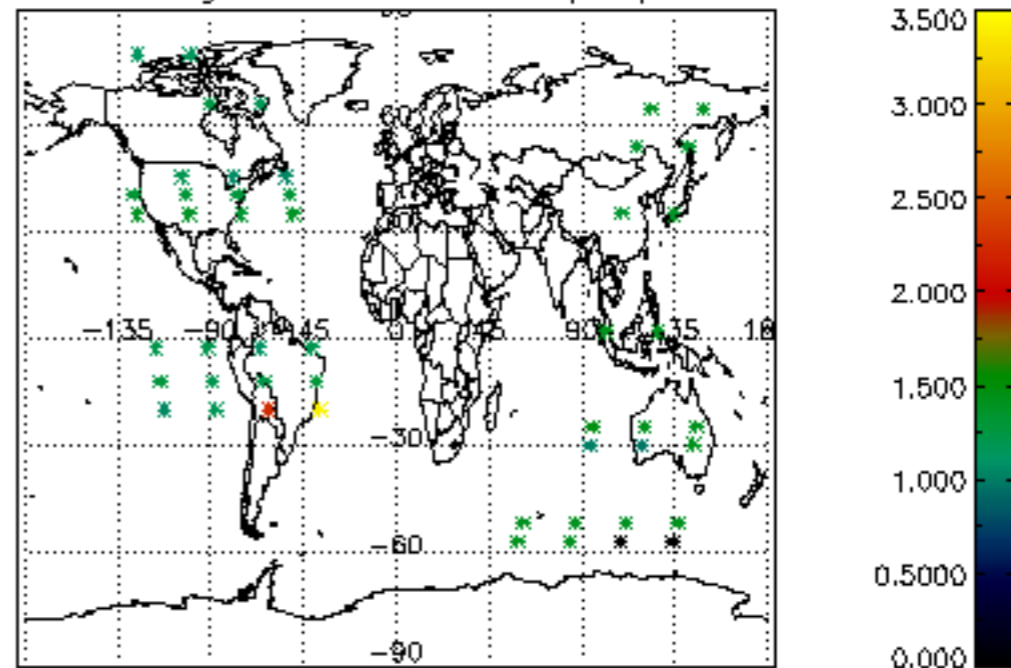




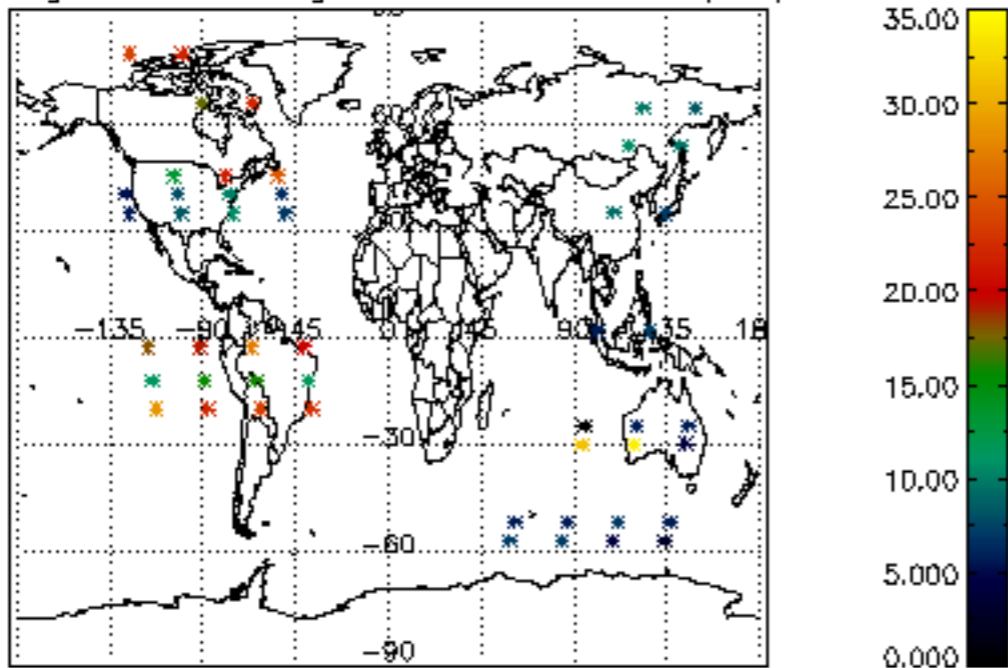
Percentage of cosmic ray hits per profile



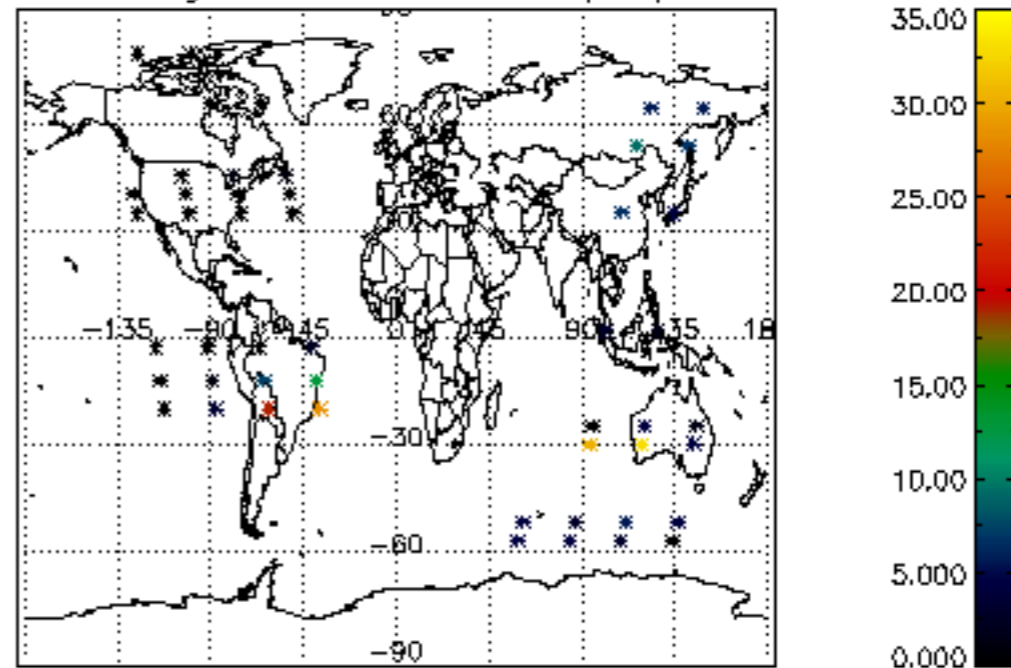
Percentage of datation errors per profile



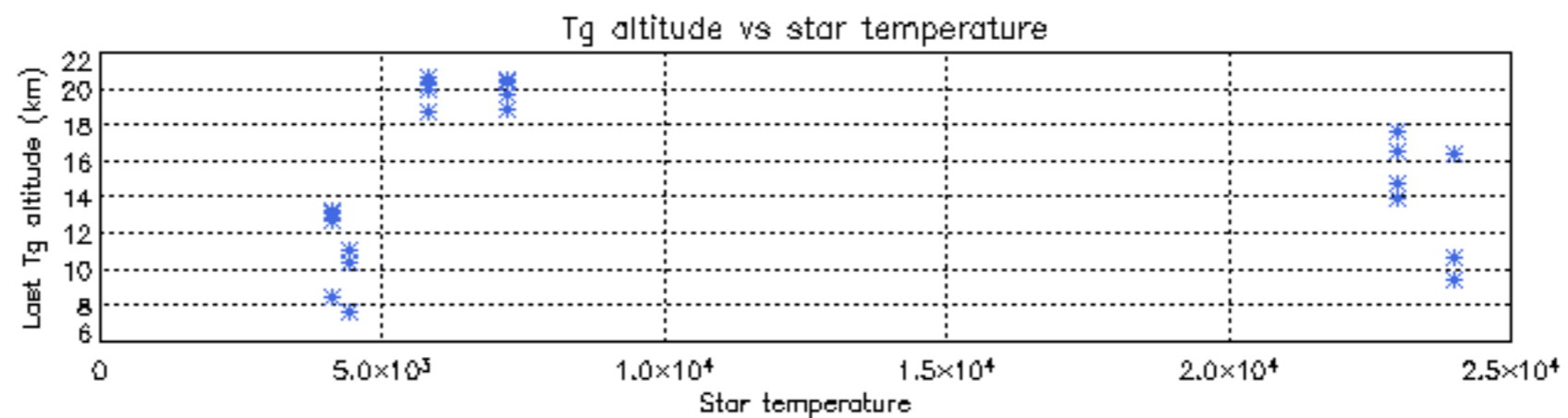
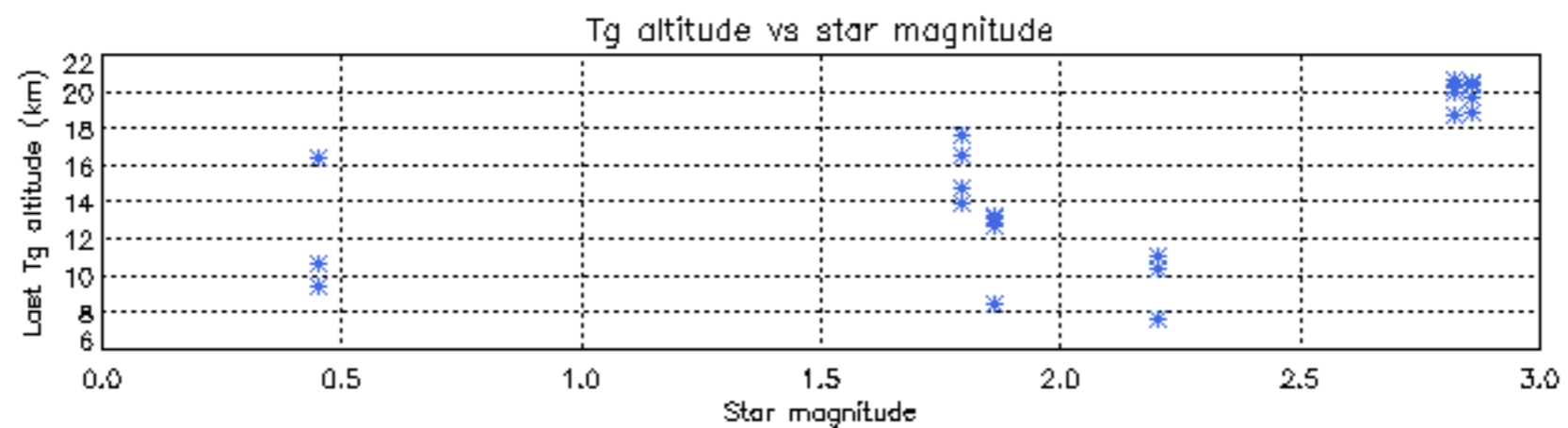
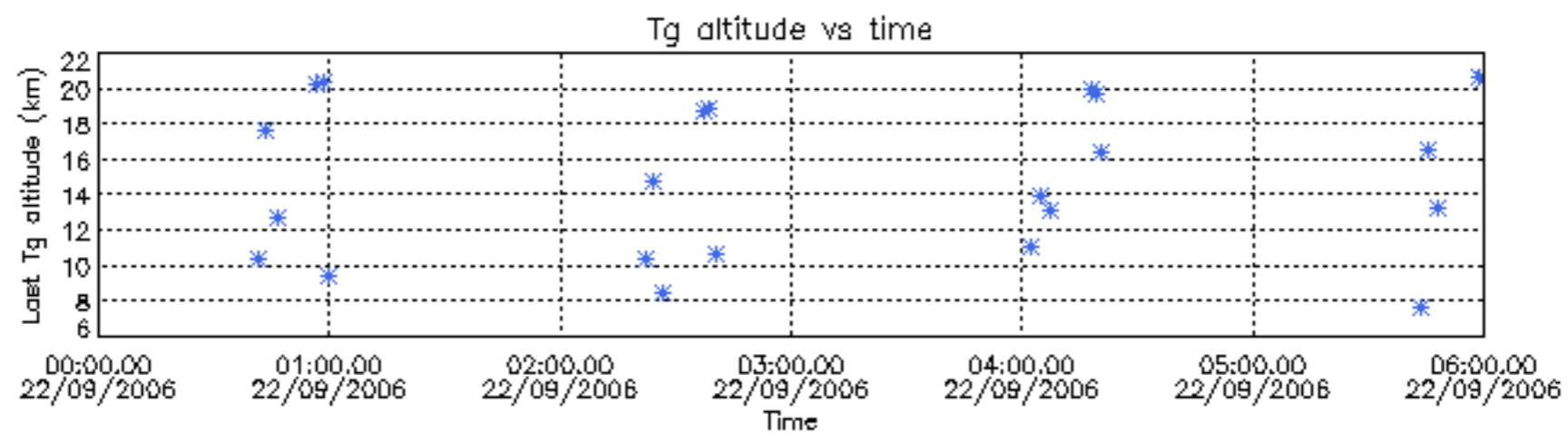
Percentage of star falling outside central band per profile



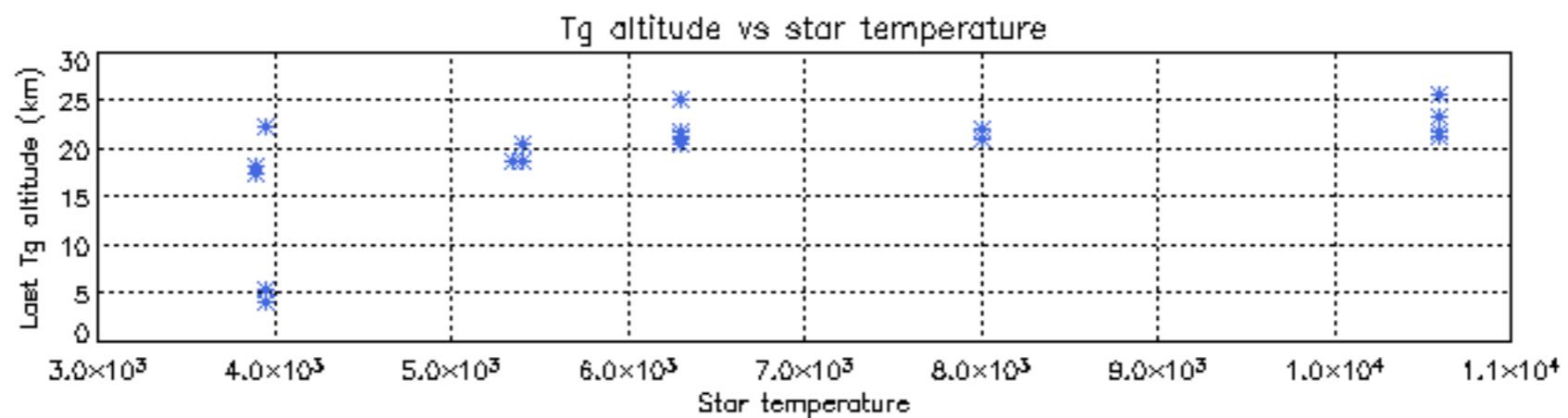
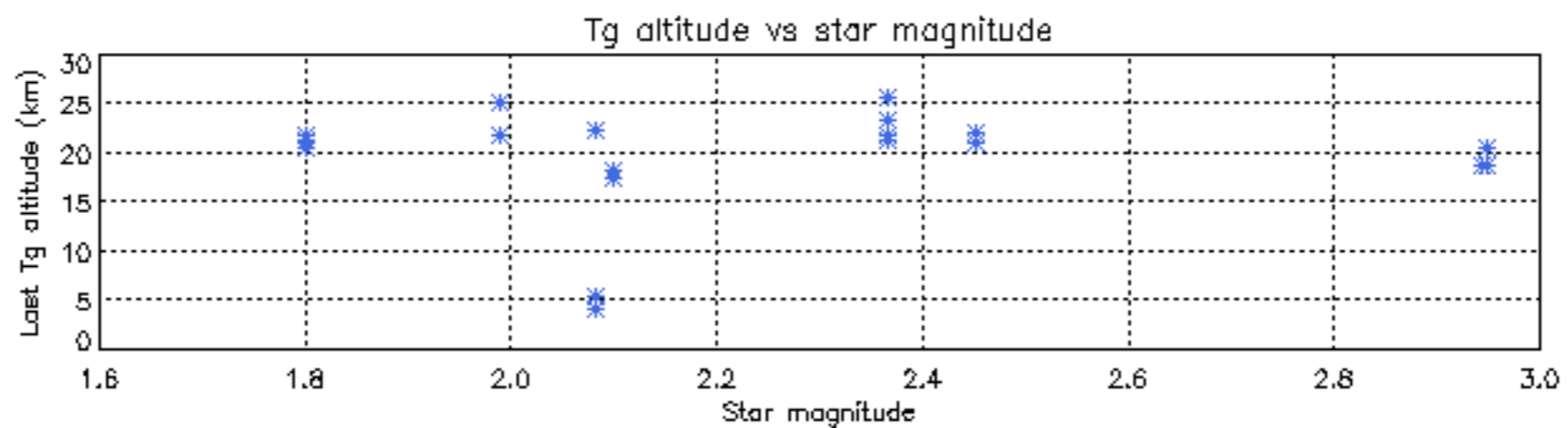
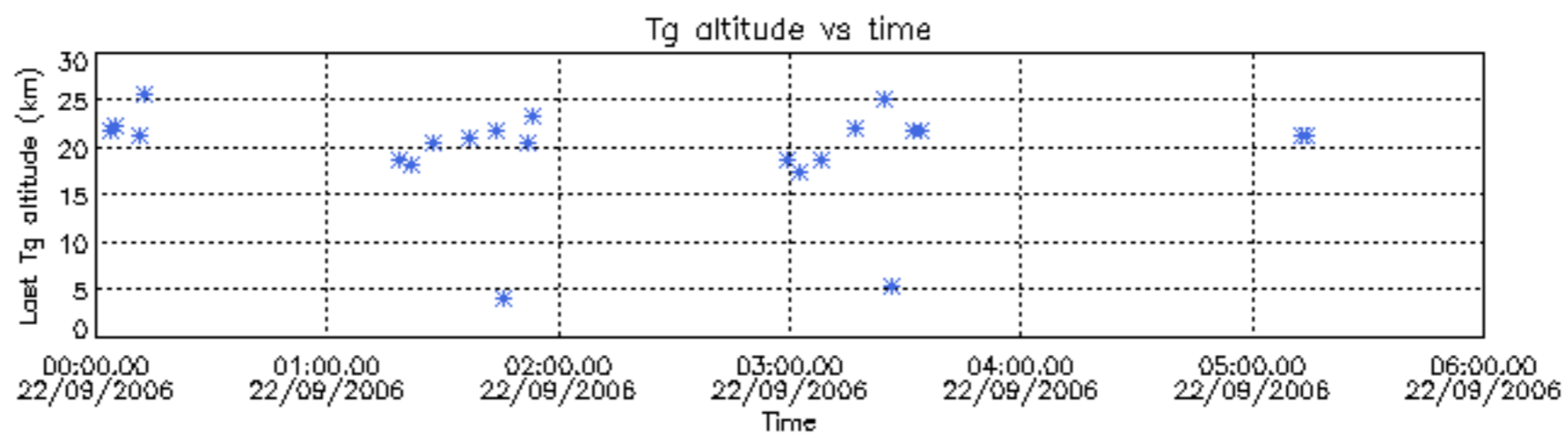
Percentage of saturation errors per profile

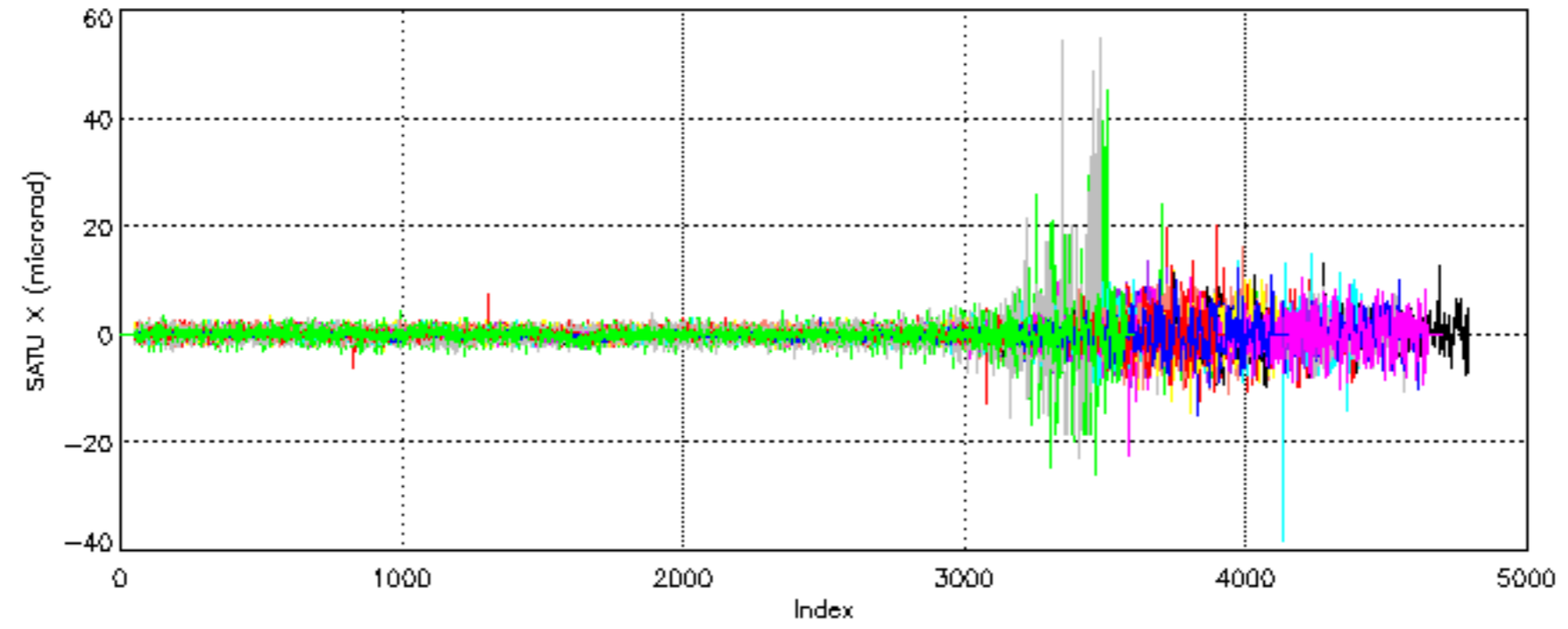


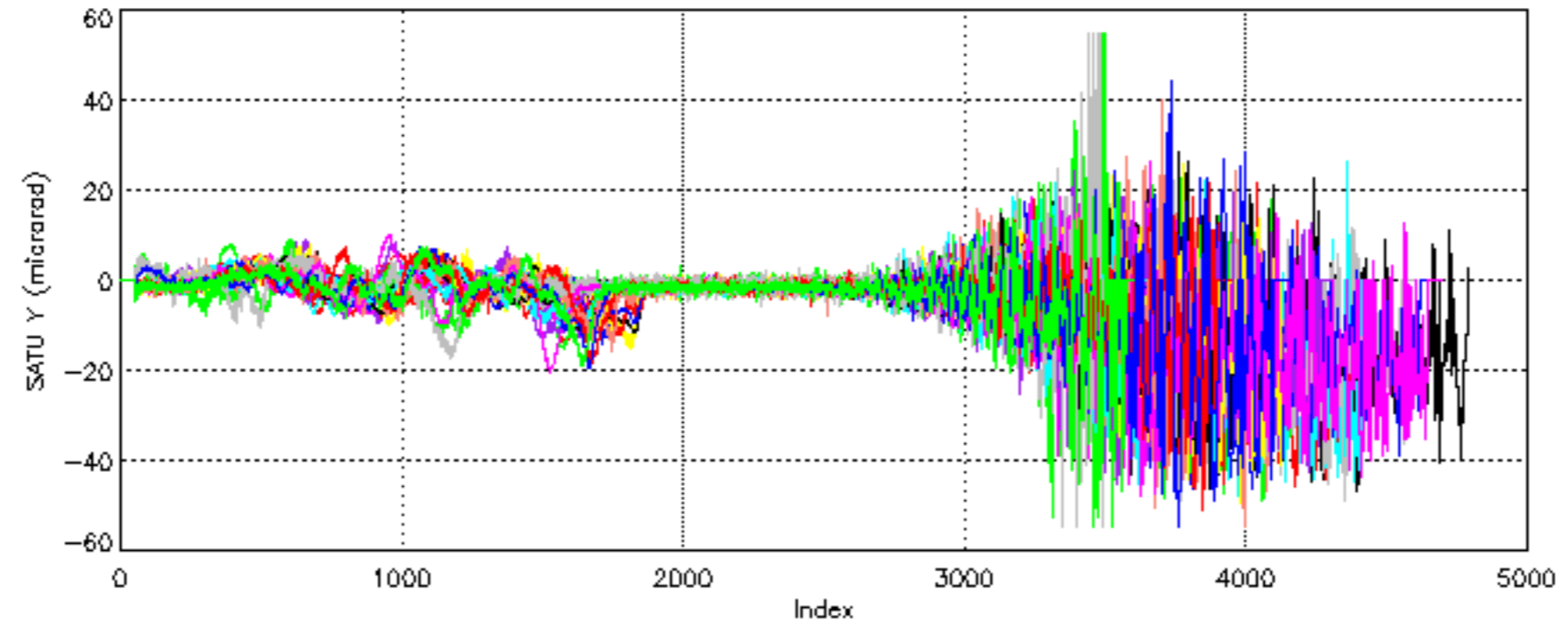
Tangent altitude at which the star is lost

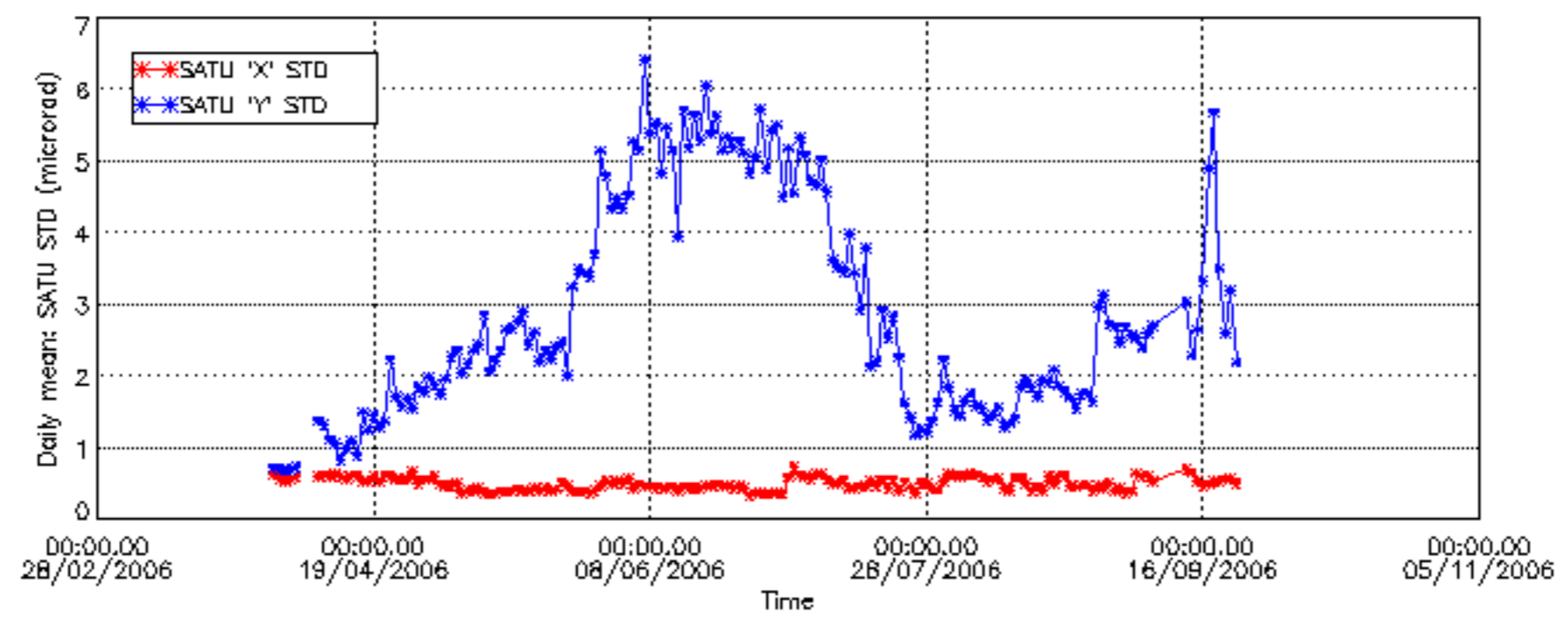


Tangent altitude at which the star is lost









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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
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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
 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
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 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
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 6; -277.5; 01-SEP-2006 05:03:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23548
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 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
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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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13; 2075.5; 01-SEP-2006 22:28:27; Bright; 38.0; 61; 8Eps Peg ; 2.10; 3900;occ; 76; 0;23559
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15; 2679.1; 01-SEP-2006 22:38:31; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;23559
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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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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
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