

GOMOS Daily Report 19-JUL-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	21JUL2006 04:32:07
Data source version	GOMOS/4.02
Start time of products	QDS_YESTERDAY(/START)-1D (19JUL2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (20JUL2006 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

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

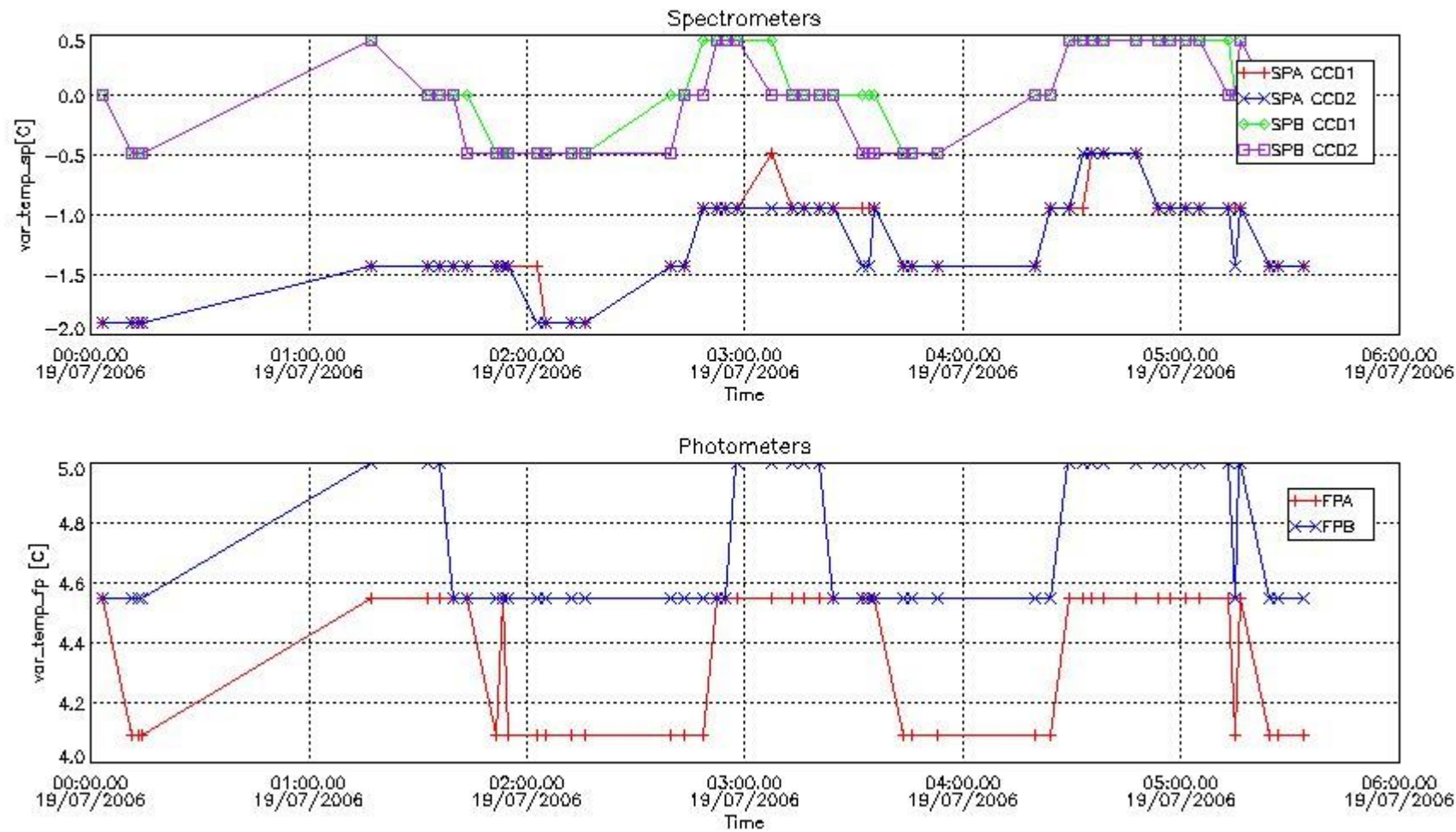
2.1 Level 0 products arrived in PCF (see template [here](#))

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_1PNPDE20060719_000308_000000402049_00317_22916_0005.N1	19-JUL-2006 00:03:08	Twilight	39.500	45	Alp Pav	1.9400	26000.	79	22916	No
2	GOM_TRA_1PNPDE20060719_001104_000000402049_00317_22916_0006.N1	19-JUL-2006 00:11:04	Bright	39.500	38	20Eps Sgr	1.8360	11000.	79	22916	No
3	GOM_TRA_1PNPDE20060719_001258_000000392049_00317_22916_0007.N1	19-JUL-2006 00:12:58	Bright	39.000	57	34Sig Sgr	2.0660	26000.	78	22916	No
4	GOM_TRA_1PNPDE20060719_001420_000000392049_00317_22916_0008.N1	19-JUL-2006 00:14:20	Bright	39.000	155	41Pi Sgr	2.9000	6600.0	78	22916	No
5	GOM_TRA_1PNPDE20060719_011721_000000482049_00317_22916_0000.N1	19-JUL-2006 01:17:21	Dark	48.000	165	34Gam Eri	2.9500	3200.0	96	22916	No
6	GOM_TRA_1PNPDE20060719_013232_000000512049_00318_22917_0001.N1	19-JUL-2006 01:32:32	Dark	51.000	9	Alp Eri	0.45300	24000.	102	22917	No
7	GOM_TRA_1PNPDE20060719_013548_000000372049_00318_22917_0002.N1	19-JUL-2006 01:35:48	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	22917	No
8	GOM_TRA_1PNPDE20060719_013959_000000412049_00318_22917_0003.N1	19-JUL-2006 01:39:59	Twilight	41.000	148	Alp Tuc	2.8780	4100.0	82	22917	No
9	GOM_TRA_1PNPDE20060719_014344_000000432049_00318_22917_0004.N1	19-JUL-2006 01:43:44	Twilight	42.500	45	Alp Pav	1.9400	26000.	85	22917	No
10	GOM_TRA_1PNPDE20060719_015140_000000412049_00318_22917_0005.N1	19-JUL-2006 01:51:40	Bright	40.500	38	20Eps Sgr	1.8360	11000.	81	22917	No
11	GOM_TRA_1PNPDE20060719_015334_000000382049_00318_22917_0006.N1	19-JUL-2006 01:53:34	Bright	38.000	57	34Sig Sgr	2.0660	26000.	76	22917	No
12	GOM_TRA_1PNPDE20060719_015456_000000392049_00318_22917_0007.N1	19-JUL-2006 01:54:56	Bright	39.000	155	41Pi Sgr	2.9000	6600.0	78	22917	No
13	GOM_TRA_1PNPDE20060719_020252_000000352049_00318_22917_0008.N1	19-JUL-2006 02:02:52	Bright	35.000	126	60Bet Oph	2.7700	4250.0	70	22917	No
14	GOM_TRA_1PNPDE20060719_020510_000000362049_00318_22917_0009.N1	19-JUL-2006 02:05:10	Bright	36.000	59	55Alp Oph	2.0800	8900.0	72	22917	No
15	GOM_TRA_1PNPDE20060719_021226_000000362049_00318_22917_0010.N1	19-JUL-2006 02:12:26	Bright	35.500	5	3Alp Lyr	0.033000	11000.	71	22917	No
16	GOM_TRA_1PNPDE20060719_021553_000000362049_00318_22917_0011.N1	19-JUL-2006 02:15:53	Bright	36.000	69	33Gam Dra	2.2310	3800.0	72	22917	No
17	GOM_TRA_1PNPDE20060719_023922_000000402049_00318_22917_0000.N1	19-JUL-2006 02:39:22	Twilight	40.000	6	13Alp Aur	0.080000	3400.0	80	22917	No
18	GOM_TRA_1PNPDE20060719_024312_000000392049_00318_22917_0001.N1	19-JUL-2006 02:43:12	Twilight	39.000	114	3lot Aur	2.6930	4600.0	78	22917	No
19	GOM_TRA_1PNPDE20060719_024820_000000552049_00318_22917_0002.N1	19-JUL-2006 02:48:20	Twilight	54.500	13	87Alp Tau	0.86700	3800.0	109	22917	No
20	GOM_TRA_1PNPDE20060719_025214_000000372049_00318_22917_0003.N1	19-JUL-2006 02:52:14	Twilight	37.000	72	34Del Ori	2.2500	30000.	74	22917	No
21	GOM_TRA_1PNPDE20060719_025439_000000442049_00318_22917_0004.N1	19-JUL-2006 02:54:39	Dark	43.500	7	19Bet Ori	0.10000	14000.	87	22917	No
22	GOM_TRA_1PNPDE20060719_025757_000000442049_00318_22917_0005.N1	19-JUL-2006 02:57:57	Dark	43.500	165	34Gam Eri	2.9500	3200.0	87	22917	No
23	GOM_TRA_1PNPDE20060719_030703_000000432049_00318_22917_0006.N1	19-JUL-2006 03:07:03	Dark	42.500	157	The1Eri	2.9060	9300.0	85	22917	No
24	GOM_TRA_1PNPDE20060719_031309_000000502049_00319_22918_0007.N1	19-JUL-2006 03:13:09	Dark	49.500	9	Alp Eri	0.45300	24000.	99	22918	No
25	GOM_TRA_1PNPDE20060719_031625_000000372049_00319_22918_0008.N1	19-JUL-2006 03:16:25	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	22918	No
26	GOM_TRA_1PNPDE20060719_032035_000000442049_00319_22918_0009.N1	19-JUL-2006 03:20:35	Twilight	43.500	148	Alp Tuc	2.8780	4100.0	87	22918	No
27	GOM_TRA_1PNPDE20060719_032420_000000392049_00319_22918_0010.N1	19-JUL-2006 03:24:20	Twilight	39.000	45	Alp Pav	1.9400	26000.	78	22918	No
28	GOM_TRA_1PNPDE20060719_033217_000000402049_00319_22918_0011.N1	19-JUL-2006 03:32:17	Bright	39.500	38	20Eps Sgr	1.8360	11000.	79	22918	No
29	GOM_TRA_1PNPDE20060719_033410_000000392049_00319_22918_0012.N1	19-JUL-2006 03:34:10	Bright	38.500	57	34Sig Sgr	2.0660	26000.	77	22918	No
30	GOM_TRA_1PNPDE20060719_033532_000000392049_00319_22918_0013.N1	19-JUL-2006 03:35:32	Bright	39.000	155	41Pi Sgr	2.9000	6600.0	78	22918	No
31	GOM_TRA_1PNPDE20060719_034328_000000352049_00319_22918_0014.N1	19-JUL-2006 03:43:28	Bright	35.000	126	60Bet Oph	2.7700	4250.0	70	22918	No
32	GOM_TRA_1PNPDE20060719_034546_000000362049_00319_22918_0015.N1	19-JUL-2006 03:45:46	Bright	35.500	59	55Alp Oph	2.0800	8900.0	71	22918	No
33	GOM_TRA_1PNPDE20060719_035302_000000382049_00319_22918_0016.N1	19-JUL-2006 03:53:02	Bright	38.000	5	3Alp Lyr	0.033000	11000.	76	22918	No
34	GOM_TRA_1PNPDE20060719_041958_000000382049_00319_22918_0000.N1	19-JUL-2006 04:19:58	Twilight	37.500	6	13Alp Aur	0.080000	3400.0	75	22918	No
35	GOM_TRA_1PNPDE20060719_042349_000000392049_00319_22918_0001.N1	19-JUL-2006 04:23:49	Twilight	39.000	114	3lot Aur	2.6930	4600.0	78	22918	No
36	GOM_TRA_1PNPDE20060719_042856_000000472049_00319_22918_0002.N1	19-JUL-2006 04:28:56	Twilight	46.500	13	87Alp Tau	0.86700	3800.0	93	22918	No
37	GOM_TRA_1PNPDE20060719_043250_000000372049_00319_22918_0003.N1	19-JUL-2006 04:32:50	Twilight	36.500	72	34Del Ori	2.2500	30000.	73	22918	No
38	GOM_TRA_1PNPDE20060719_043515_000000402049_00319_22918_0004.N1	19-JUL-2006 04:35:15	Dark	40.000	7	19Bet Ori	0.10000	14000.	80	22918	No
39	GOM_TRA_1PNPDE20060719_043834_000000472049_00319_22918_0005.N1	19-JUL-2006 04:38:34	Dark	46.500	165	34Gam Eri	2.9500	3200.0	93	22918	No
40	GOM_TRA_1PNPDE20060719_044740_000000422049_00319_22918_0006.N1	19-JUL-2006 04:47:40	Dark	41.500	157	The1Eri	2.9060	9300.0	83	22918	No
41	GOM_TRA_1PNPDE20060719_045345_000000442049_00320_22919_0007.N1	19-JUL-2006 04:53:45	Dark	44.000	9	Alp Eri	0.45300	24000.	88	22919	No
42	GOM_TRA_1PNPDE20060719_045701_000000372049_00320_22919_0008.N1	19-JUL-2006 04:57:01	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	22919	No

43	GOM_TRA_1PNPDE20060719_050112_000000432049_00320_22919_0009.N1	19-JUL-2006 05:01:12	Twilight	42.500	148	Alp Tuc	2.8780	4100.0	85	22919	No
44	GOM_TRA_1PNPDE20060719_050457_000000402049_00320_22919_0010.N1	19-JUL-2006 05:04:57	Twilight	39.500	45	Alp Pav	1.9400	26000.	79	22919	No
45	GOM_TRA_1PNPDE20060719_051253_000000432049_00320_22919_0011.N1	19-JUL-2006 05:12:53	Bright	42.500	38	20Eps Sgr	1.8360	11000.	85	22919	No
46	GOM_TRA_1PNPDE20060719_051447_000000392049_00320_22919_0012.N1	19-JUL-2006 05:14:47	Bright	39.000	57	34Sig Sgr	2.0660	26000.	78	22919	No
47	GOM_TRA_1PNPDE20060719_051608_000000392049_00320_22919_0013.N1	19-JUL-2006 05:16:08	Bright	38.500	155	41Pi Sgr	2.9000	6600.0	77	22919	No
48	GOM_TRA_1PNPDE20060719_052405_000000352049_00320_22919_0014.N1	19-JUL-2006 05:24:05	Bright	35.000	126	60Bet Oph	2.7700	4250.0	70	22919	No
49	GOM_TRA_1PNPDE20060719_052622_000000342049_00320_22919_0015.N1	19-JUL-2006 05:26:22	Bright	34.000	59	55Alp Oph	2.0800	8900.0	68	22919	No
50	GOM_TRA_1PNPDE20060719_053338_000000412049_00320_22919_0016.N1	19-JUL-2006 05:33:38	Bright	41.000	5	3Alp Lyr	0.033000	11000.	82	22919	No

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



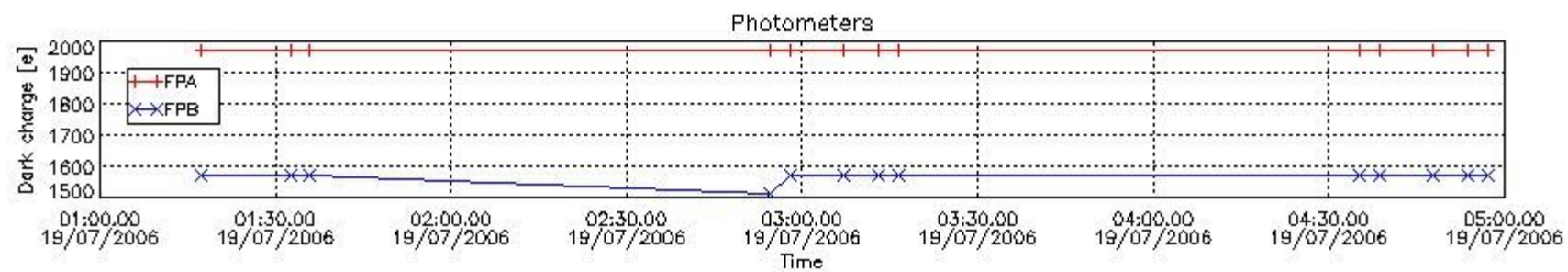
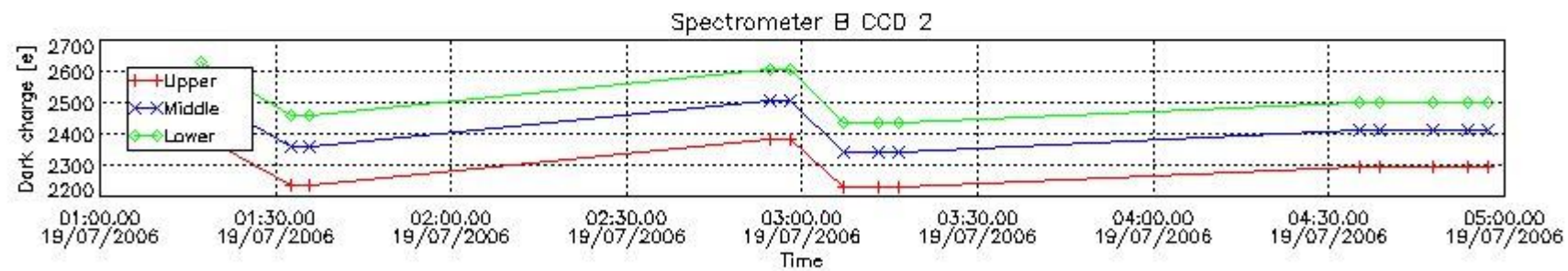
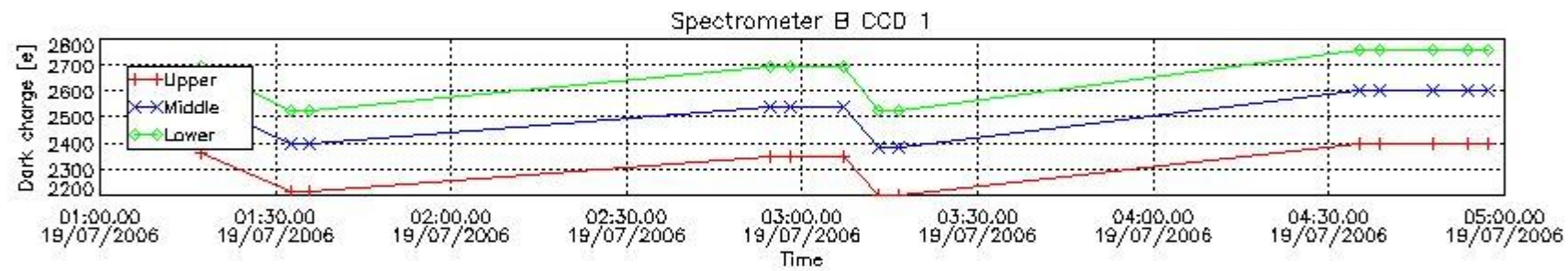
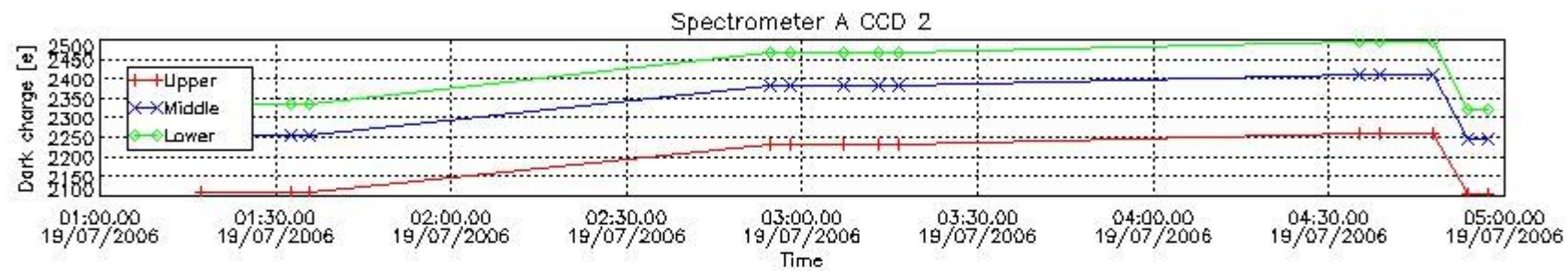
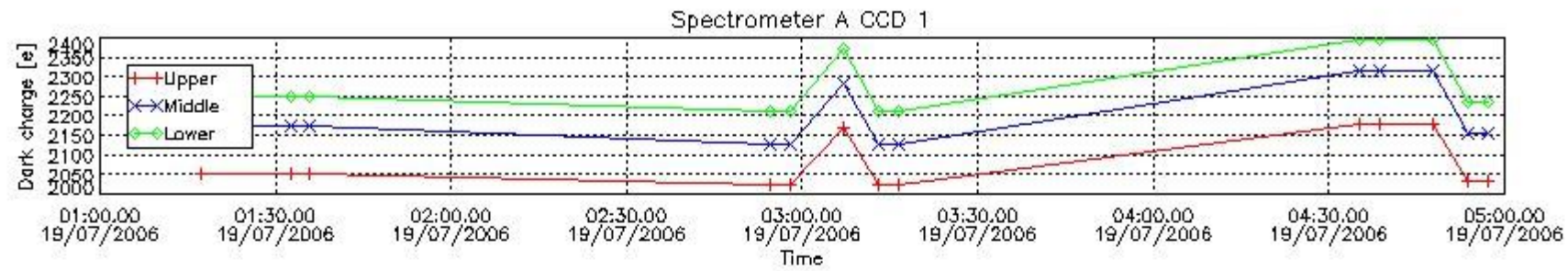
4. Overview of dark signal processing per product

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



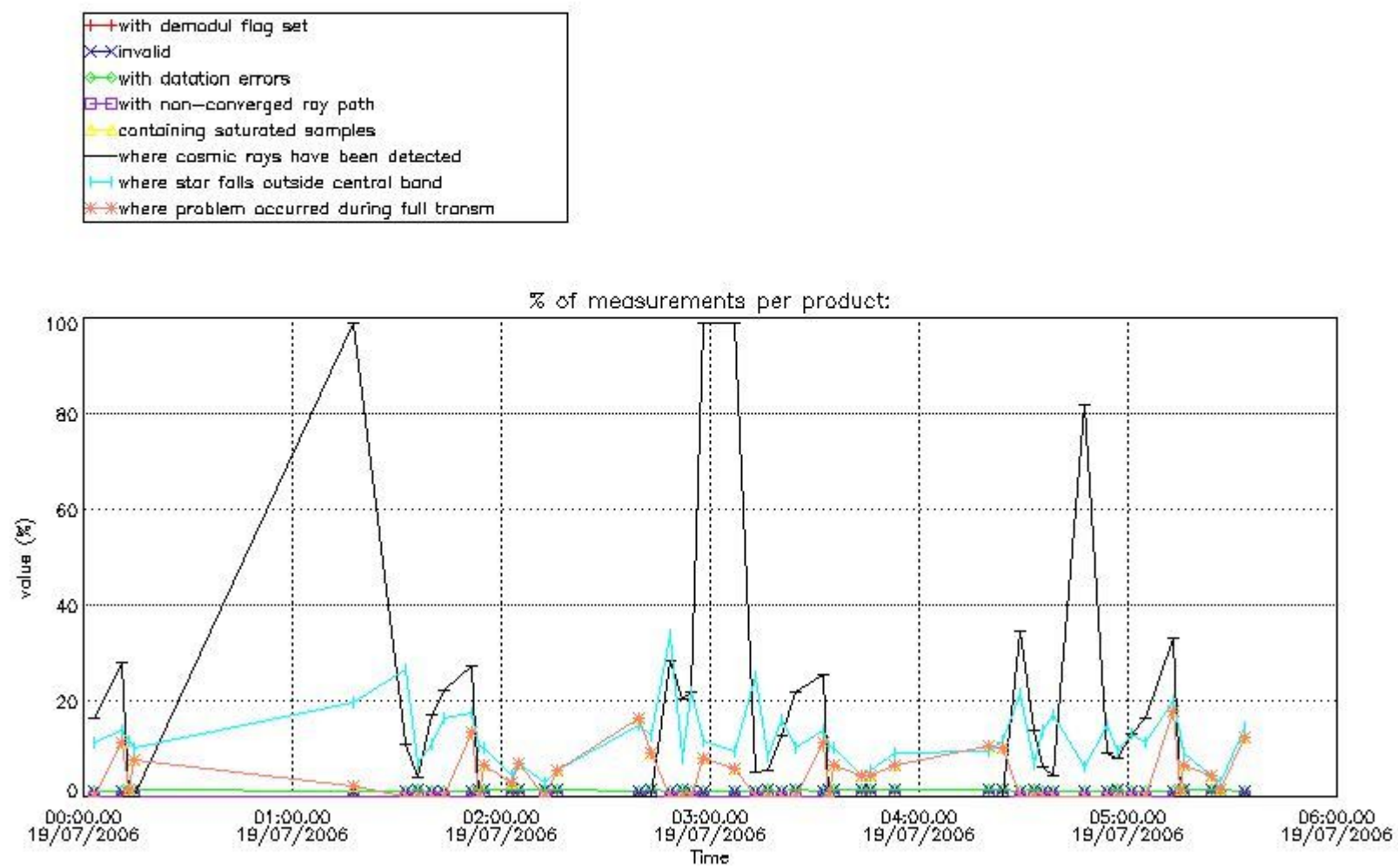
5. Demodulation flag and quality information monitoring

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.

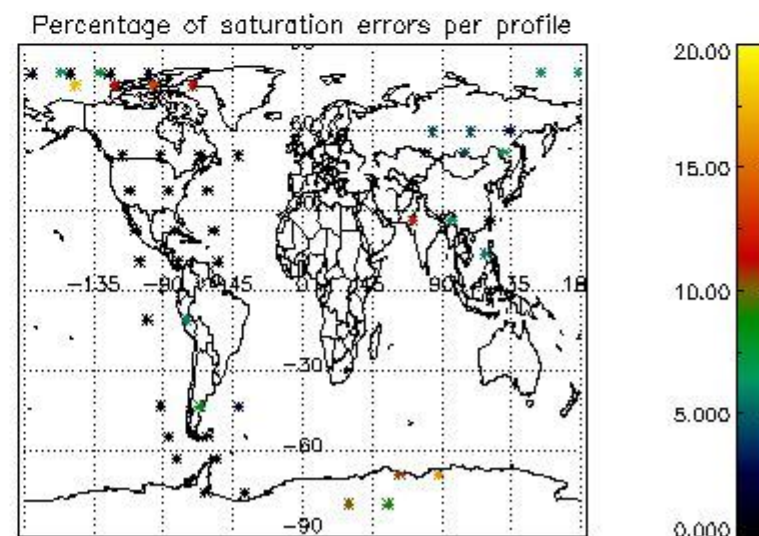
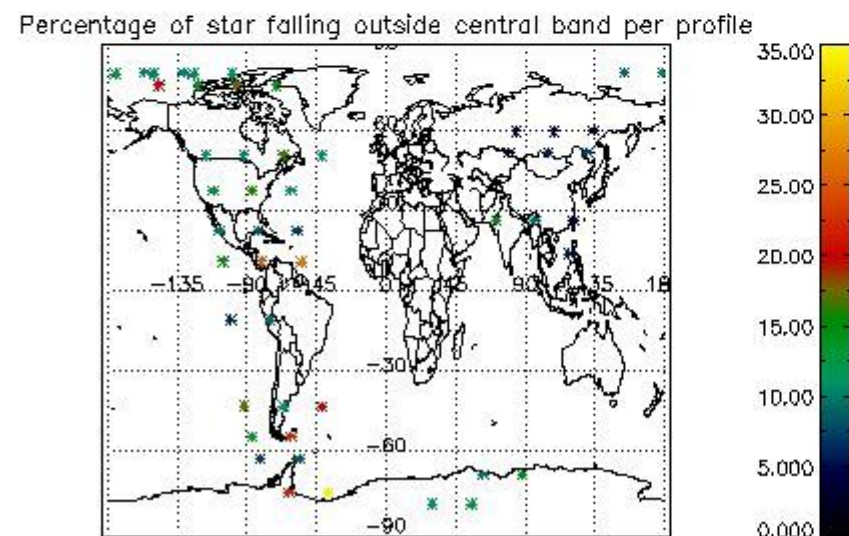
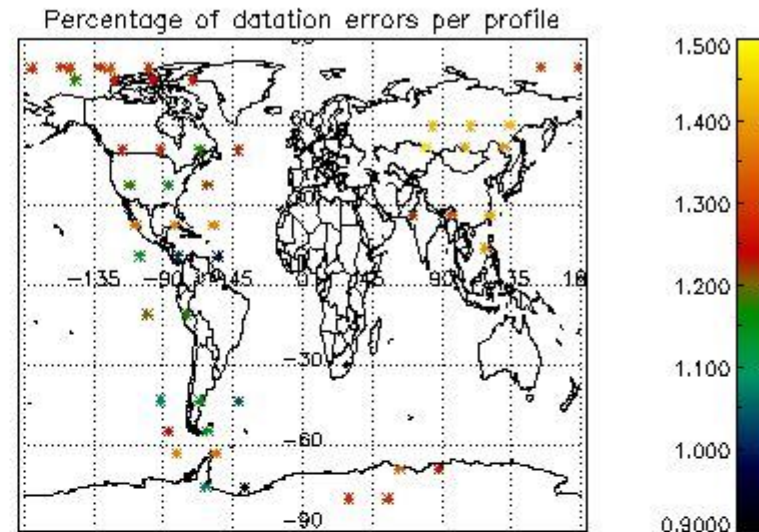
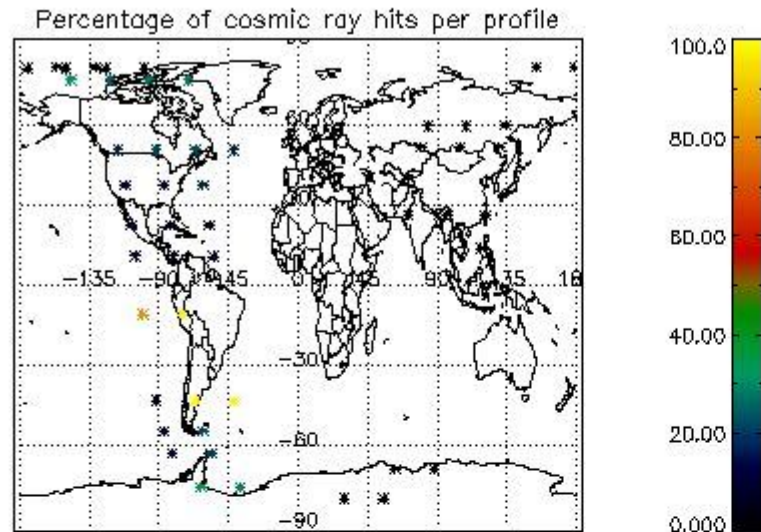
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	6.00000 %
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)



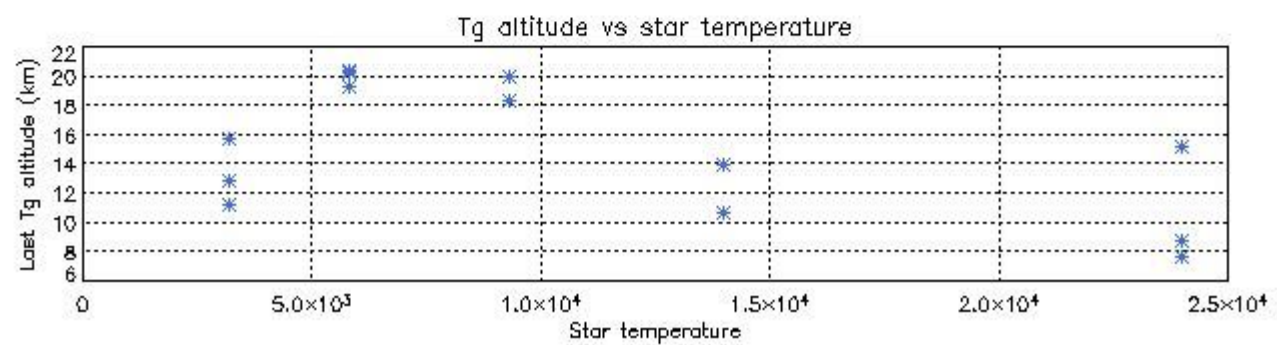
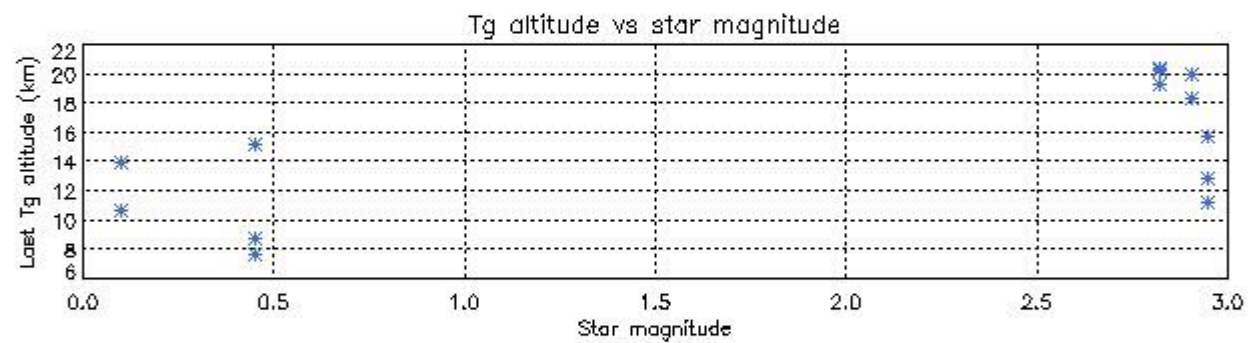
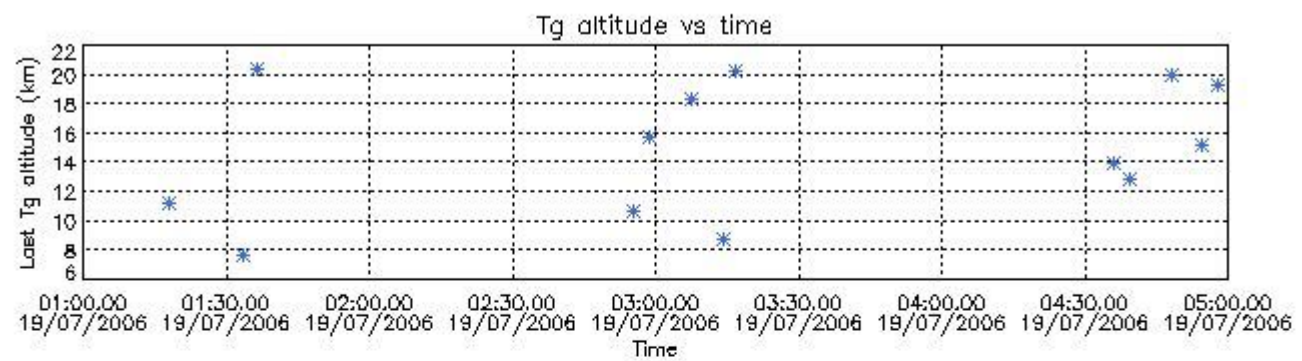
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.922	18.479	15.552
St. deviation:	4.5019	3.1971	3.6385
Maximum:	20.409	23.939	18.308
Minimum:	7.6019	11.855	4.8263
Number of data:	13.000	22.000	15.000

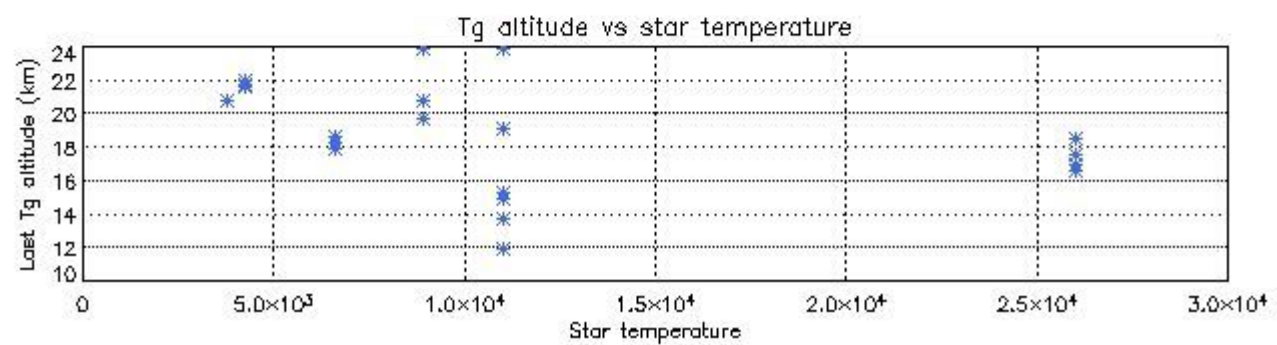
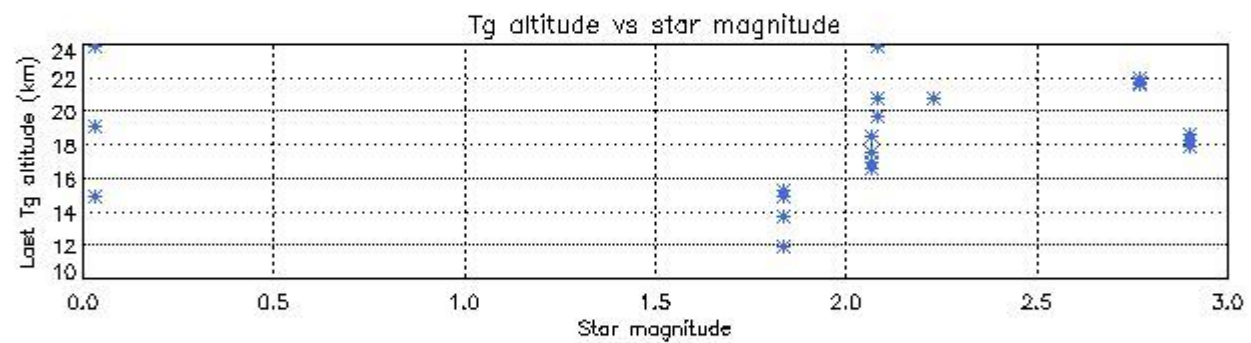
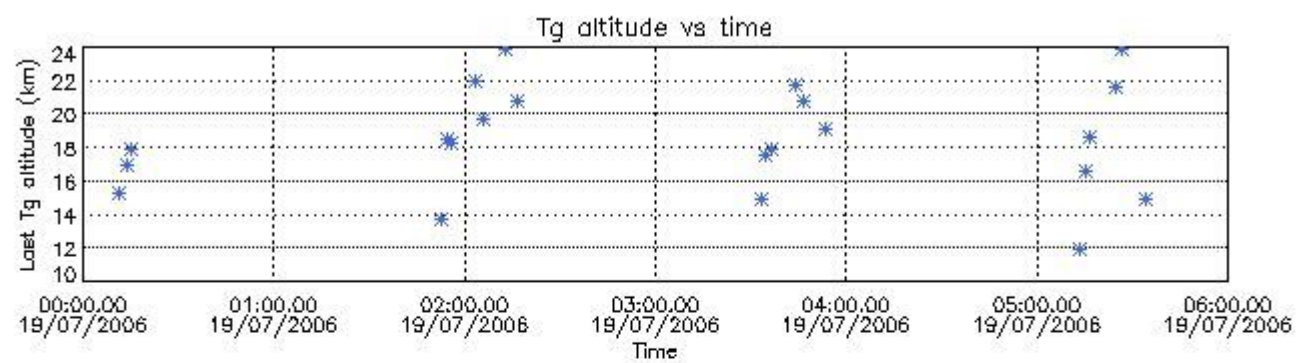
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



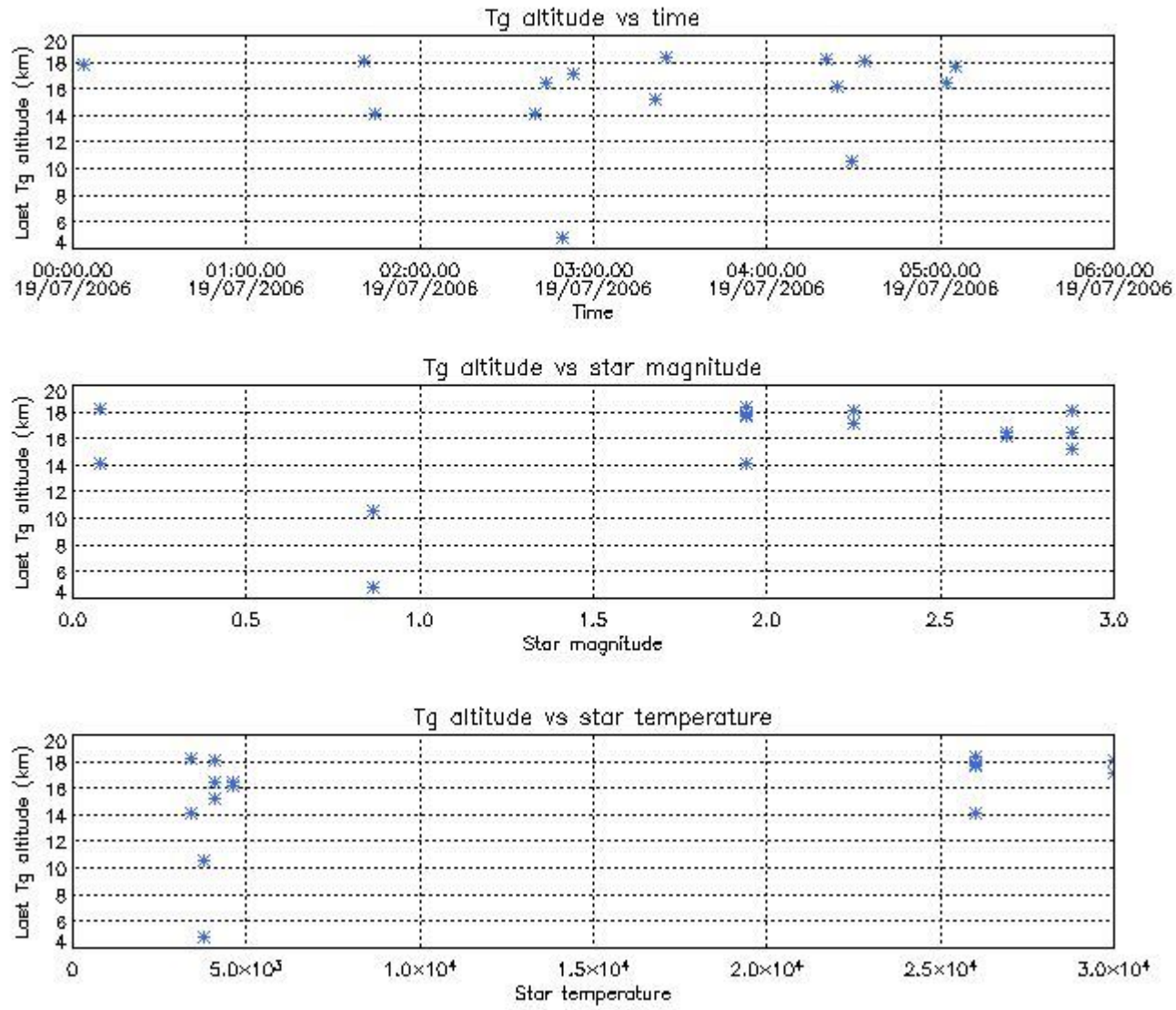
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

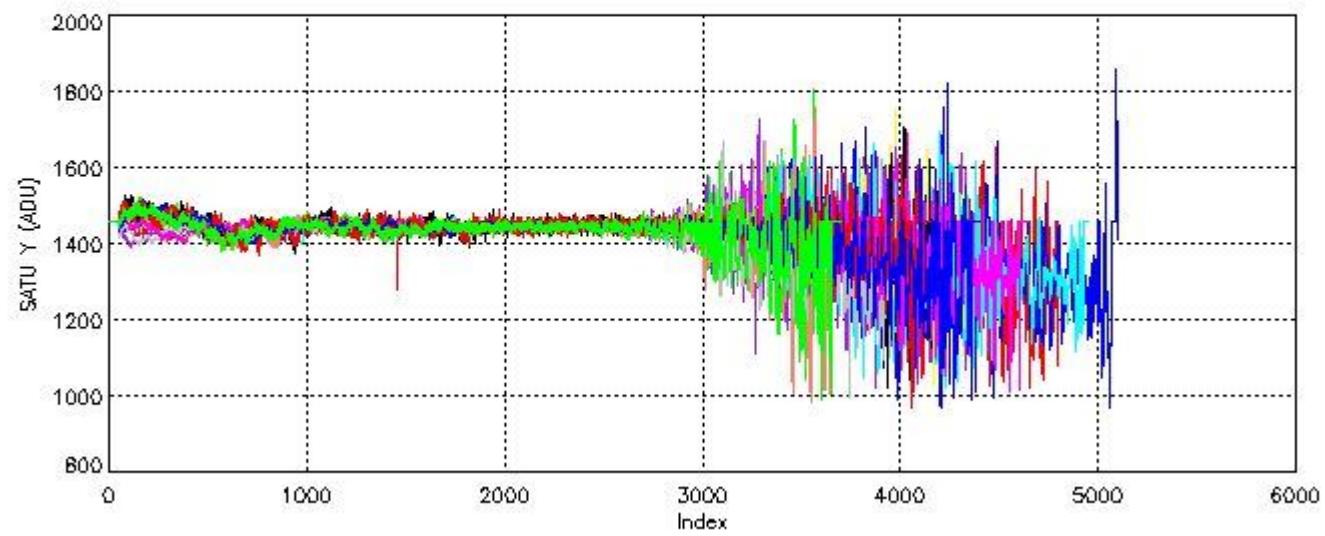
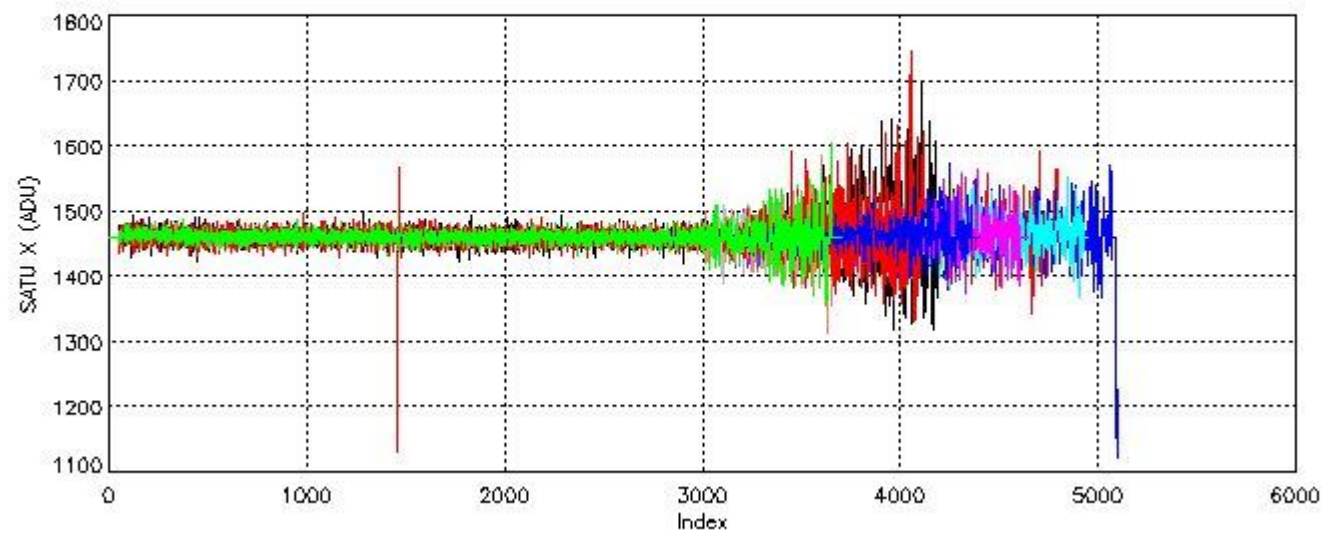


7. Star Acquisition and Tracking Unit (SATU)

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 ADU) 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.

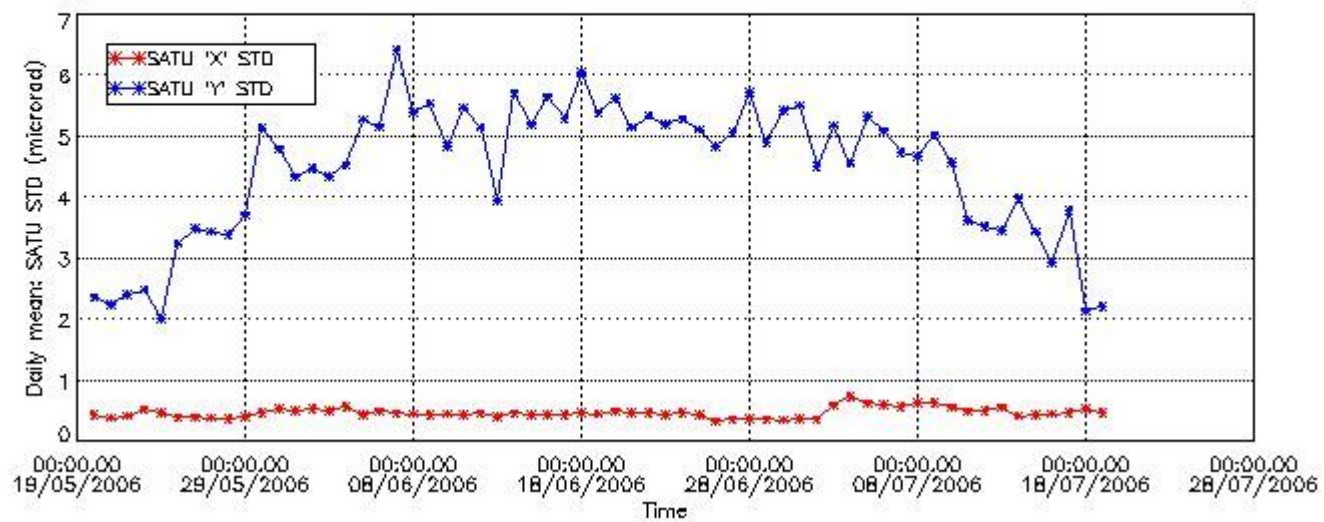
7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.6	1446.4	1460.5	1444.1
St. deviation:	4.6626	22.016	6.4155	22.028
Maximum:	1495.0	1528.0	1496.0	1508.0
Minimum:	1440.0	1378.0	1454.0	1400.0

Number of data:	12300.	12300.	18650.	18650.
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7.2.2 Trend of daily SATU NEA St. deviation during the last two months (dark limb)

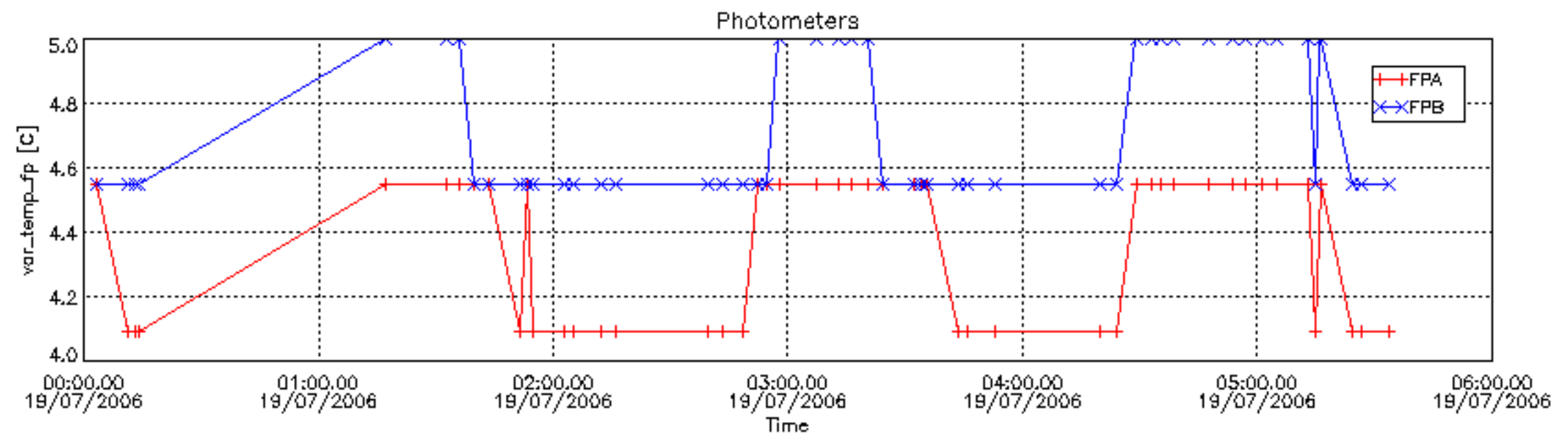
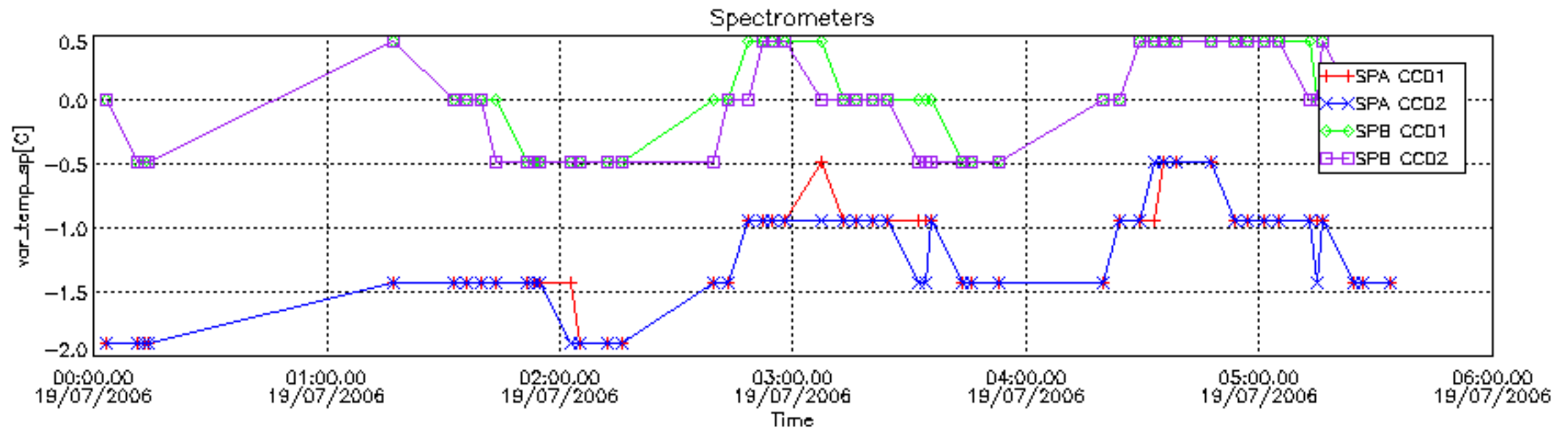
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

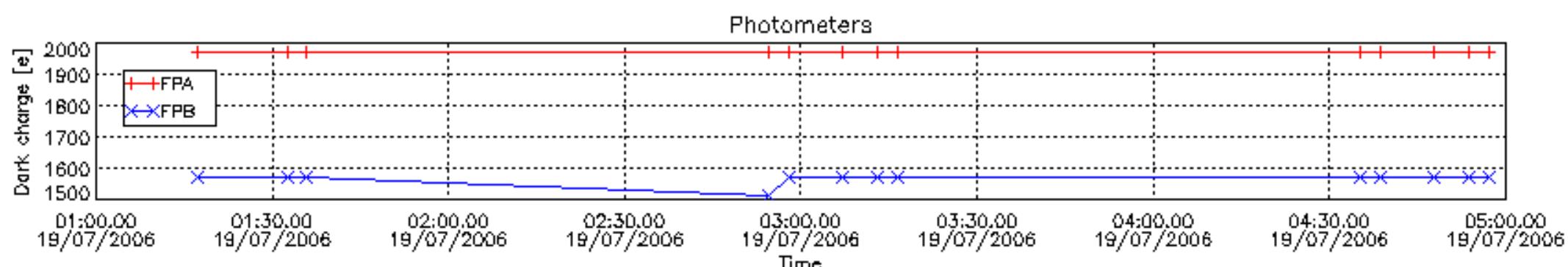
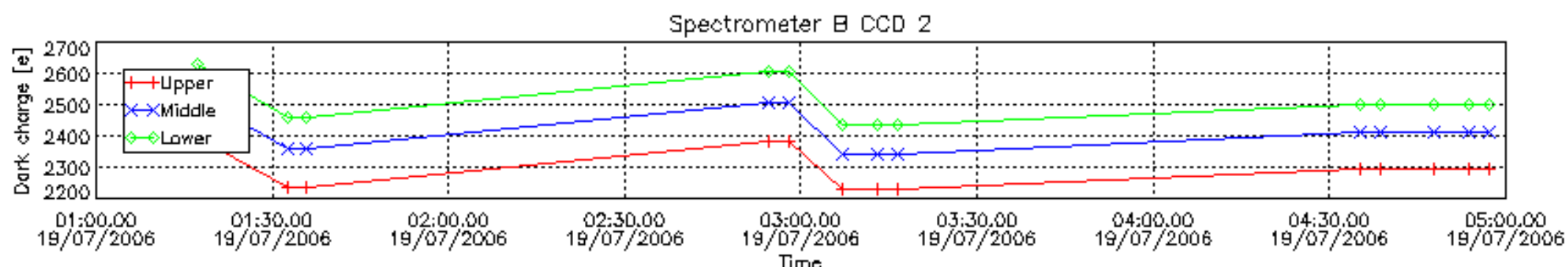
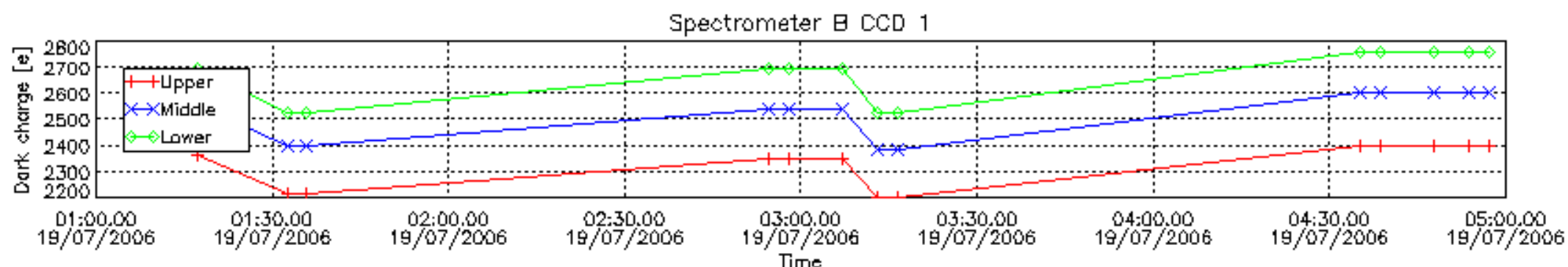
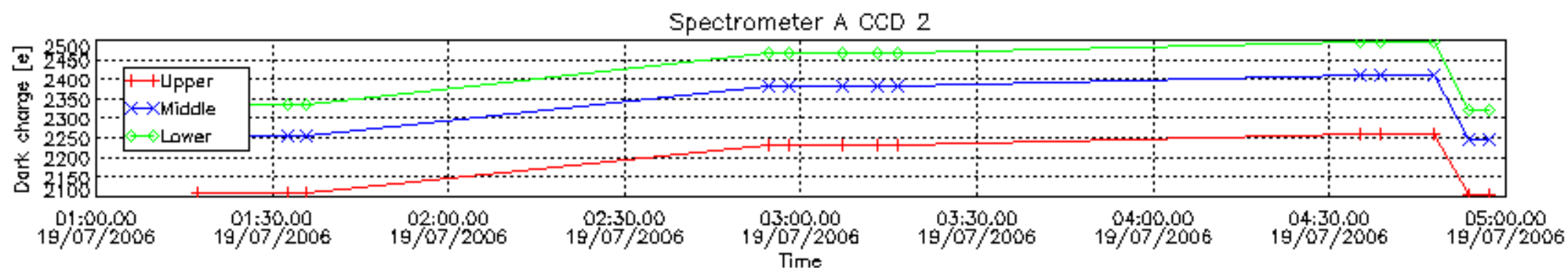
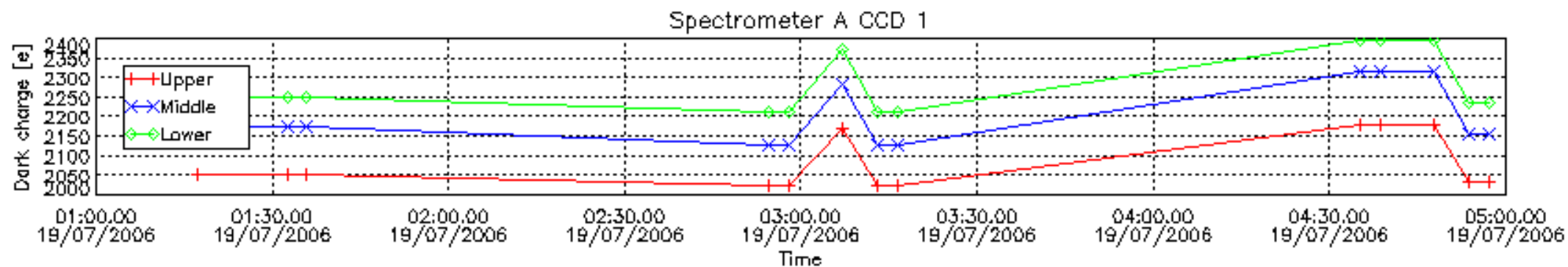


8. Auxiliary Data Files used for the production reported in section 2.2

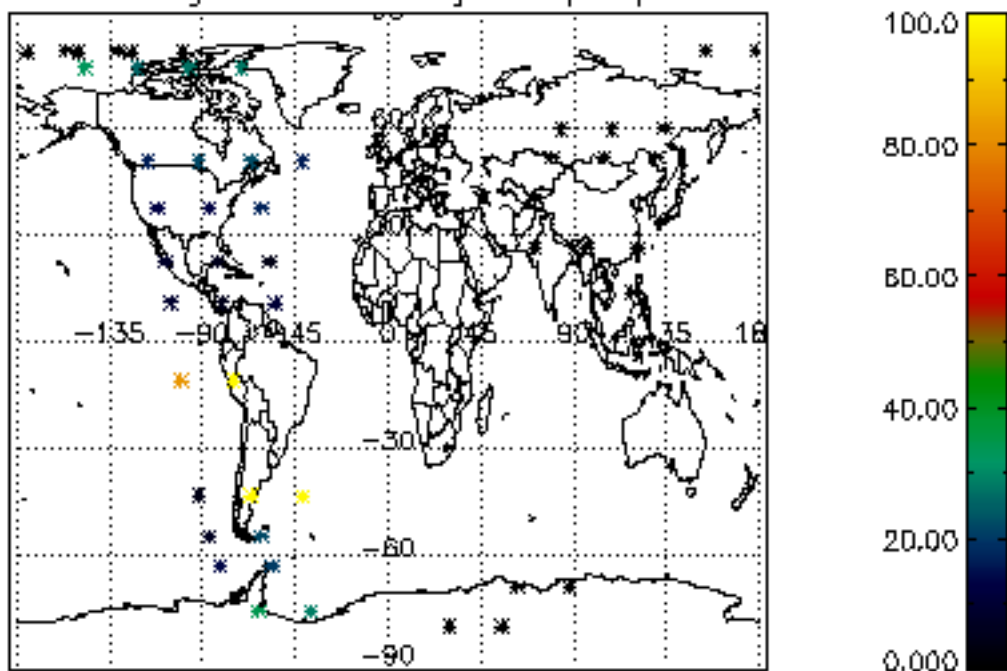
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	19-JUL-2006 00:03:08
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060712_153513_20060710_000000_20100101_000000	1	19-JUL-2006 00:03:08
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	19-JUL-2006 00:03:08
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	19-JUL-2006 00:03:08
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	19-JUL-2006 00:03:08
ECMWF_FILE	AUX_ECF_AXNECM20060718_062444_20060718_210000_20060719_090000	1	19-JUL-2006 00:03:08
ECMWF_FILE	AUX_ECF_AXNECM20060718_182440_20060719_030000_20060719_150000	34	19-JUL-2006 04:19:58
OPTIONAL_ECMWF_FILE	NOT USED	1	19-JUL-2006 00:03:08
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060718_233407_000057382049_00316_22915_0153.N1	1	19-JUL-2006 00:03:08
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060719_011503_000038252049_00317_22916_0154.N1	17	19-JUL-2006 02:39:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060719_041023_000054192049_00319_22918_0156.N1	34	19-JUL-2006 04:19:58

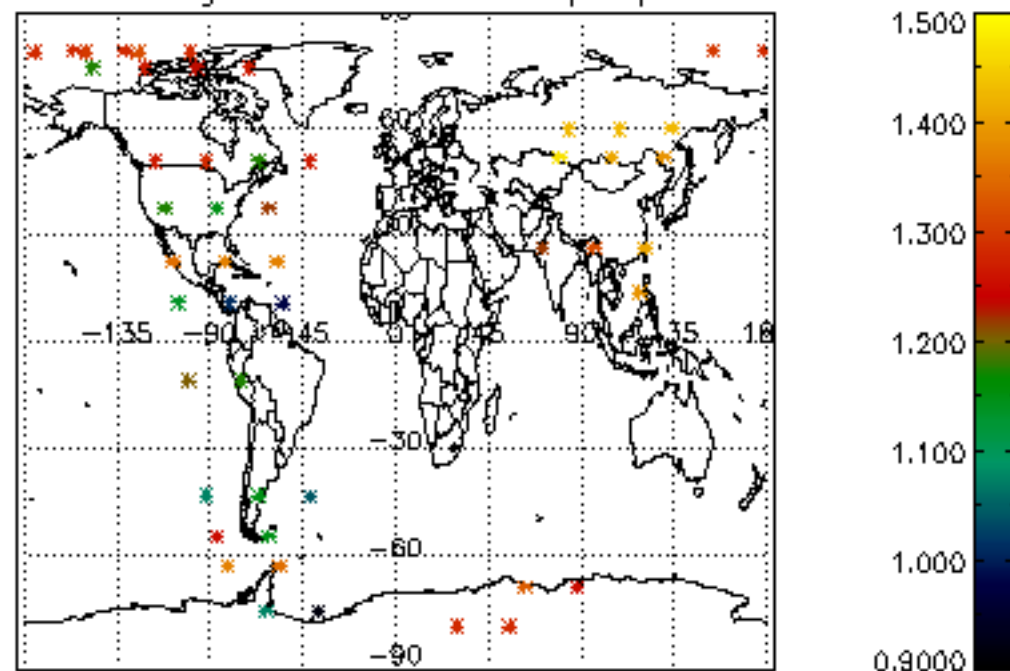




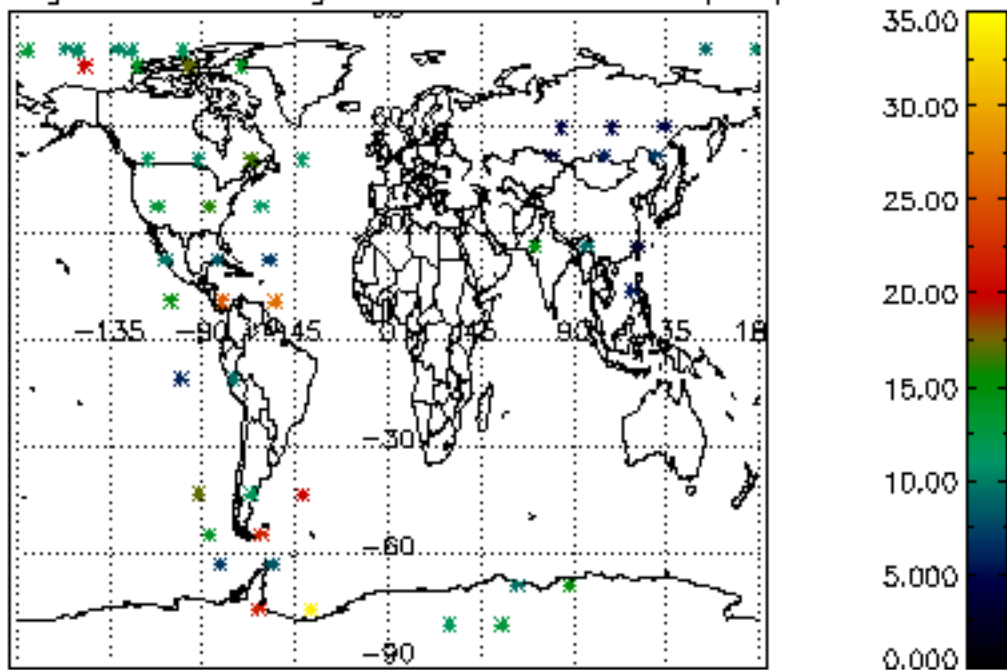
Percentage of cosmic ray hits per profile



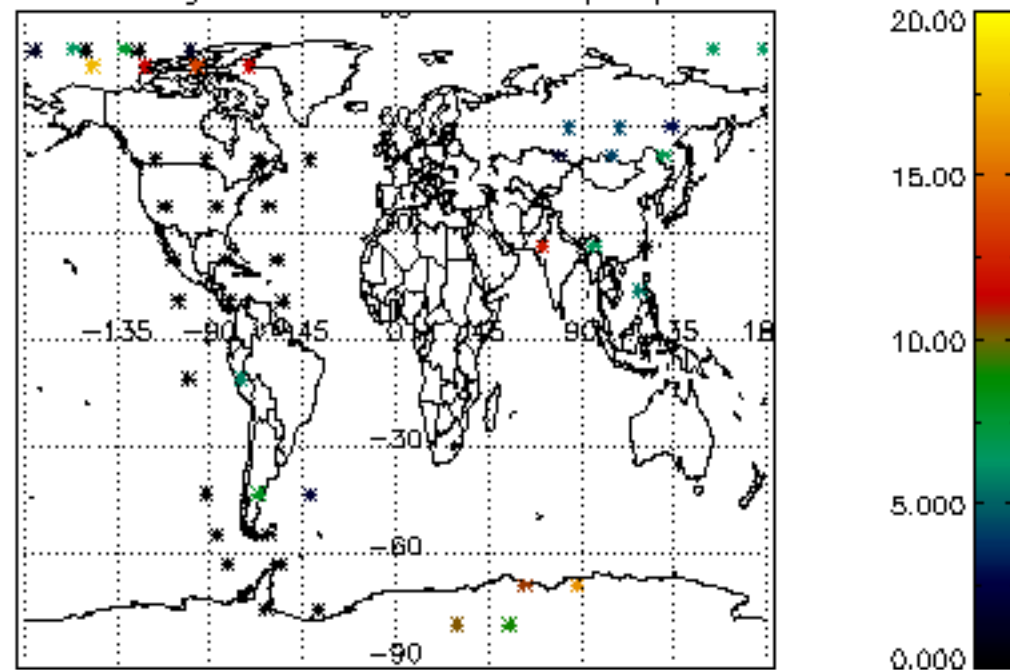
Percentage of datation errors per profile



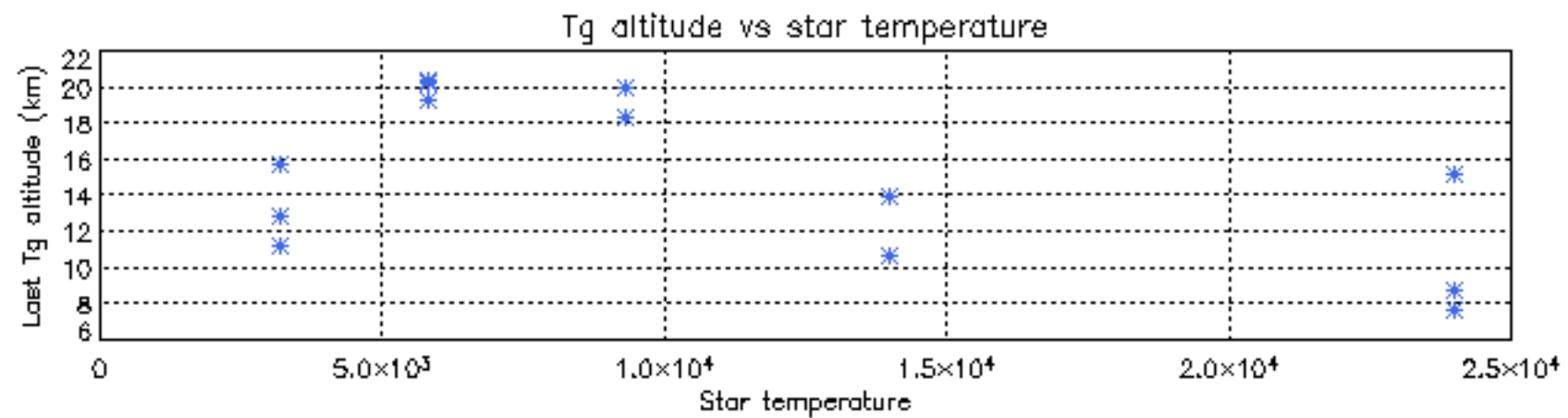
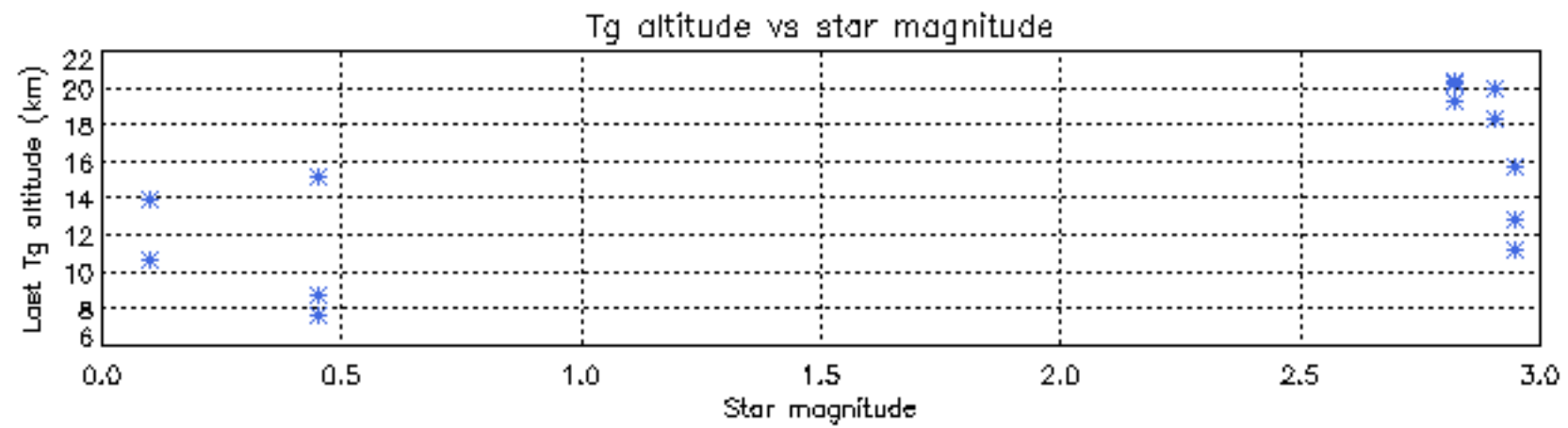
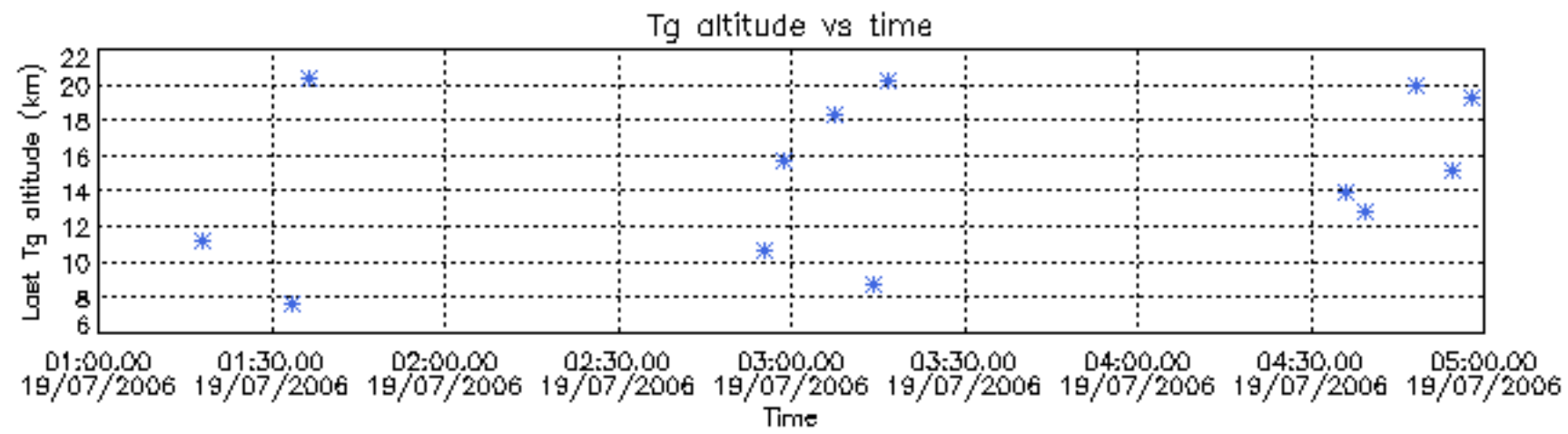
Percentage of star falling outside central band per profile



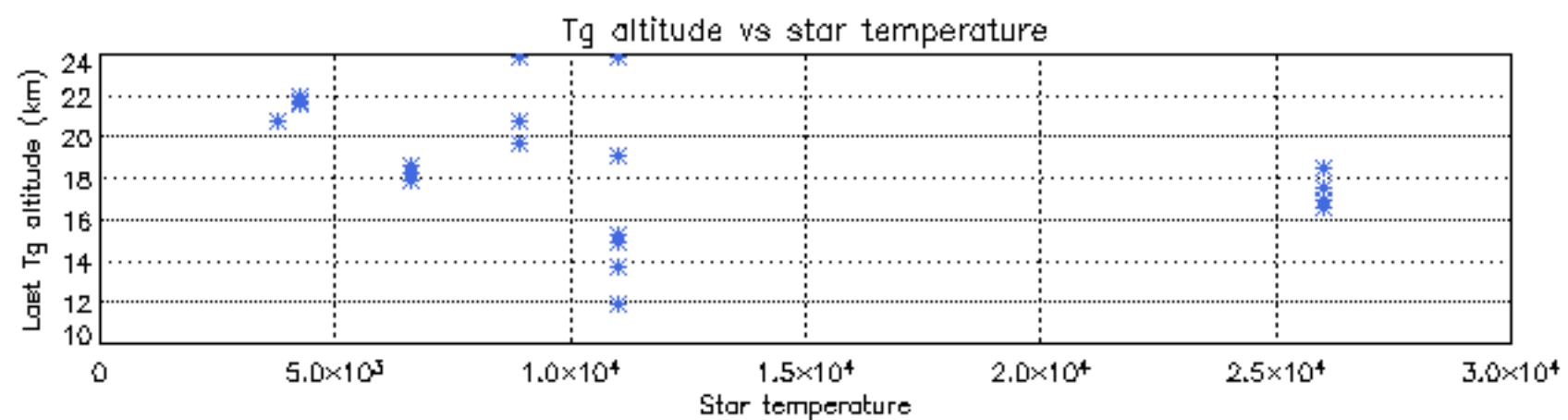
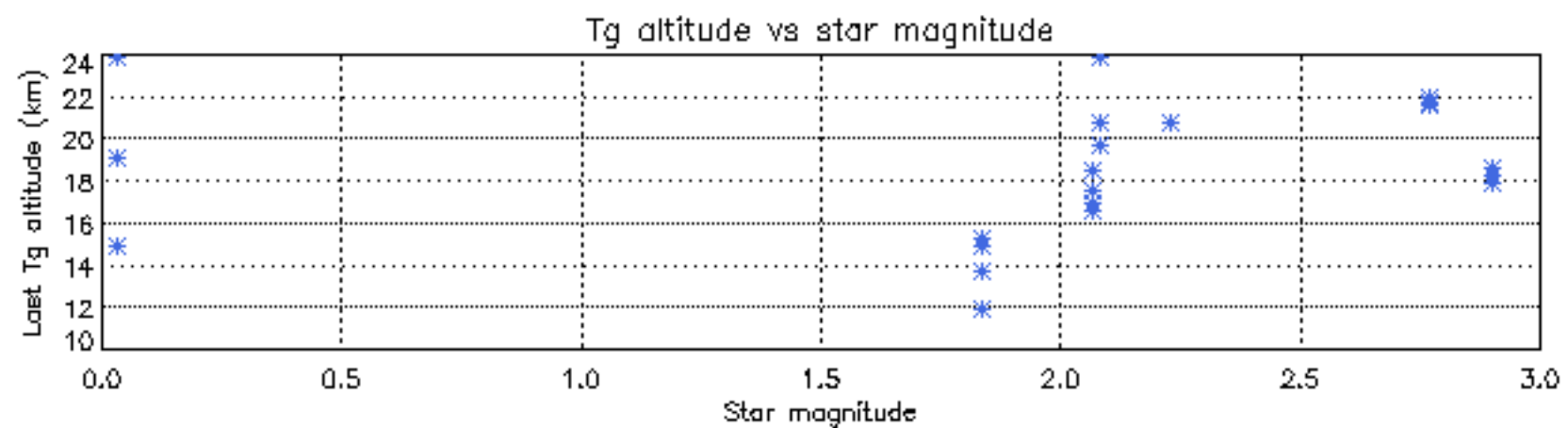
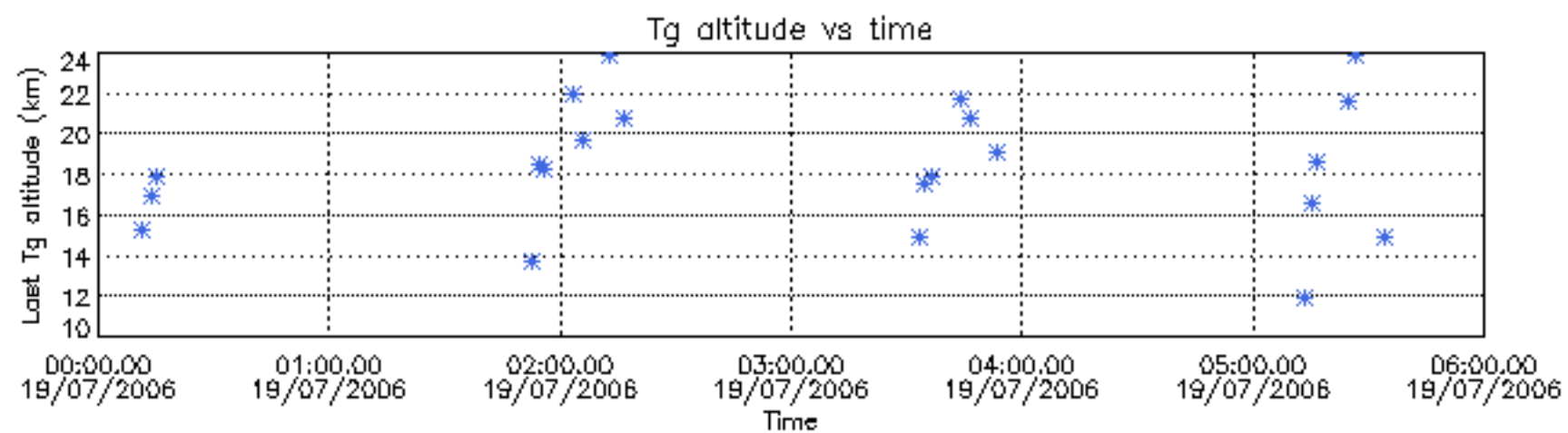
Percentage of saturation errors per profile



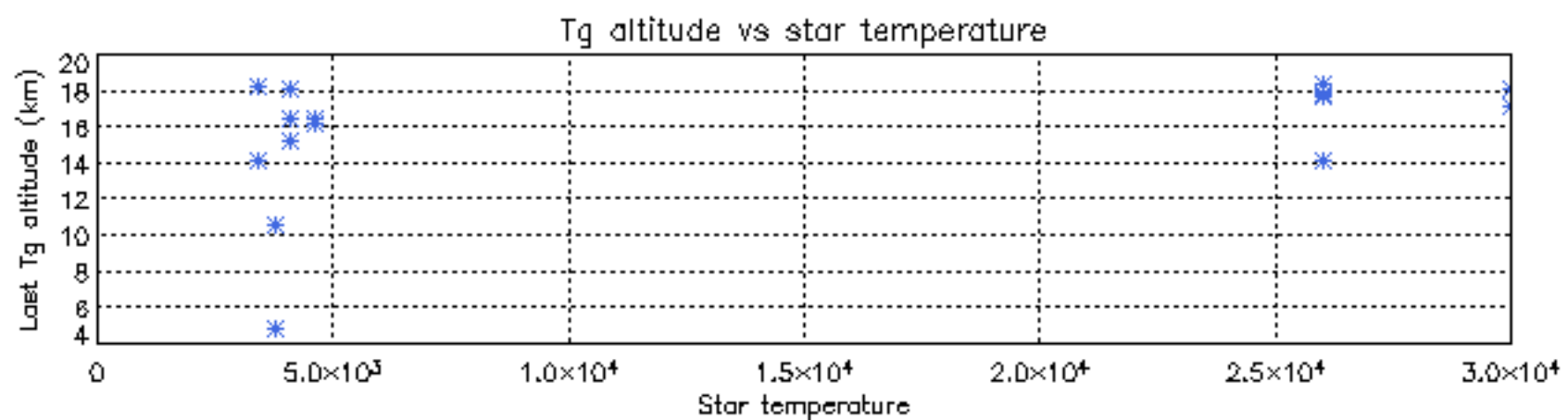
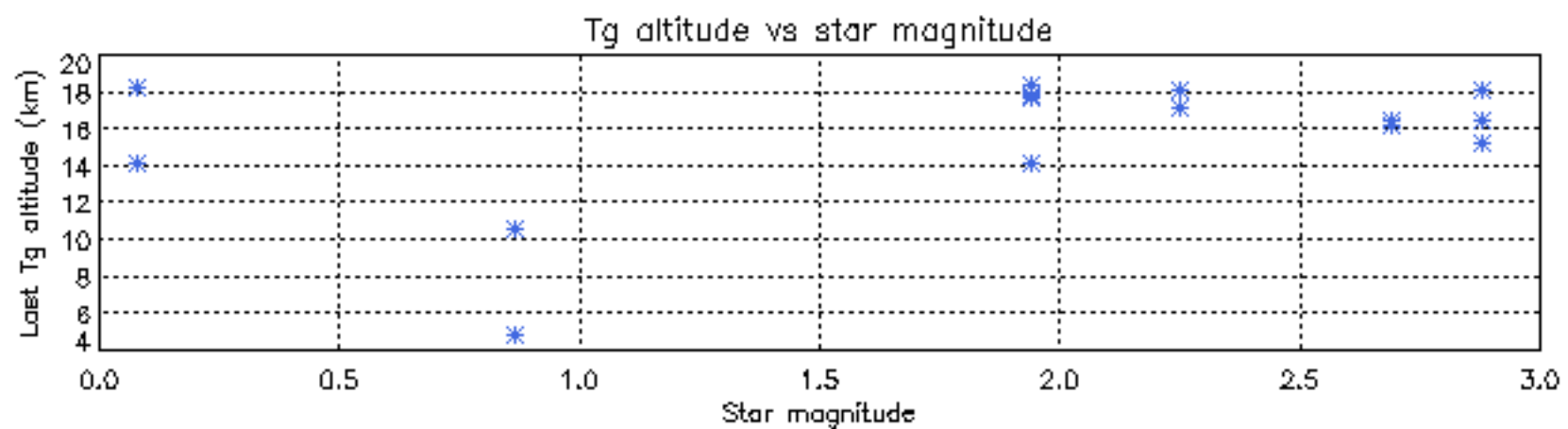
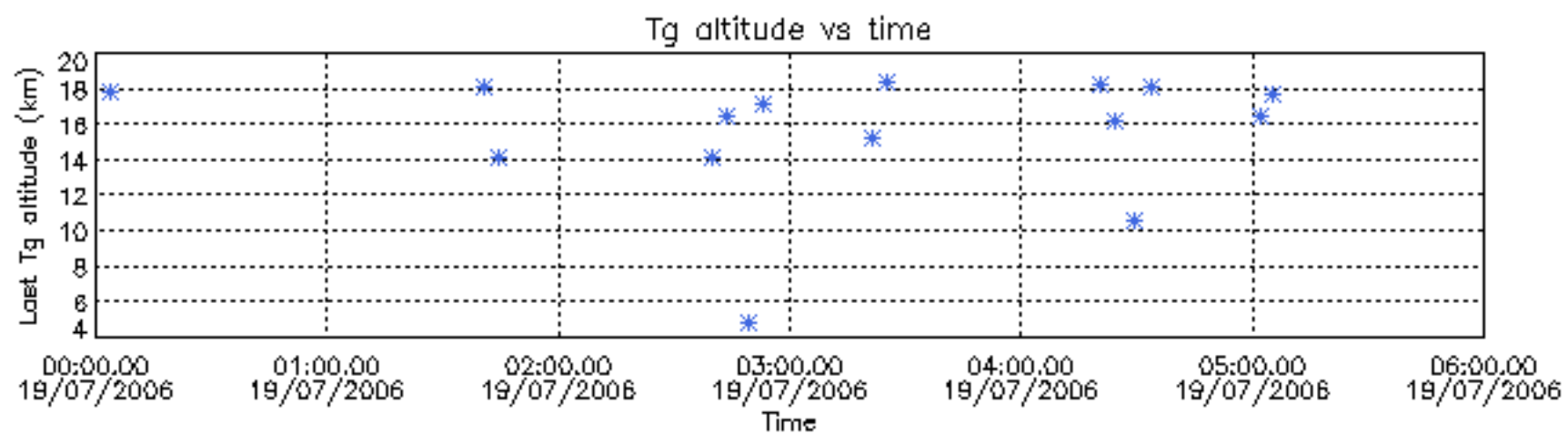
Tangent altitude at which the star is lost

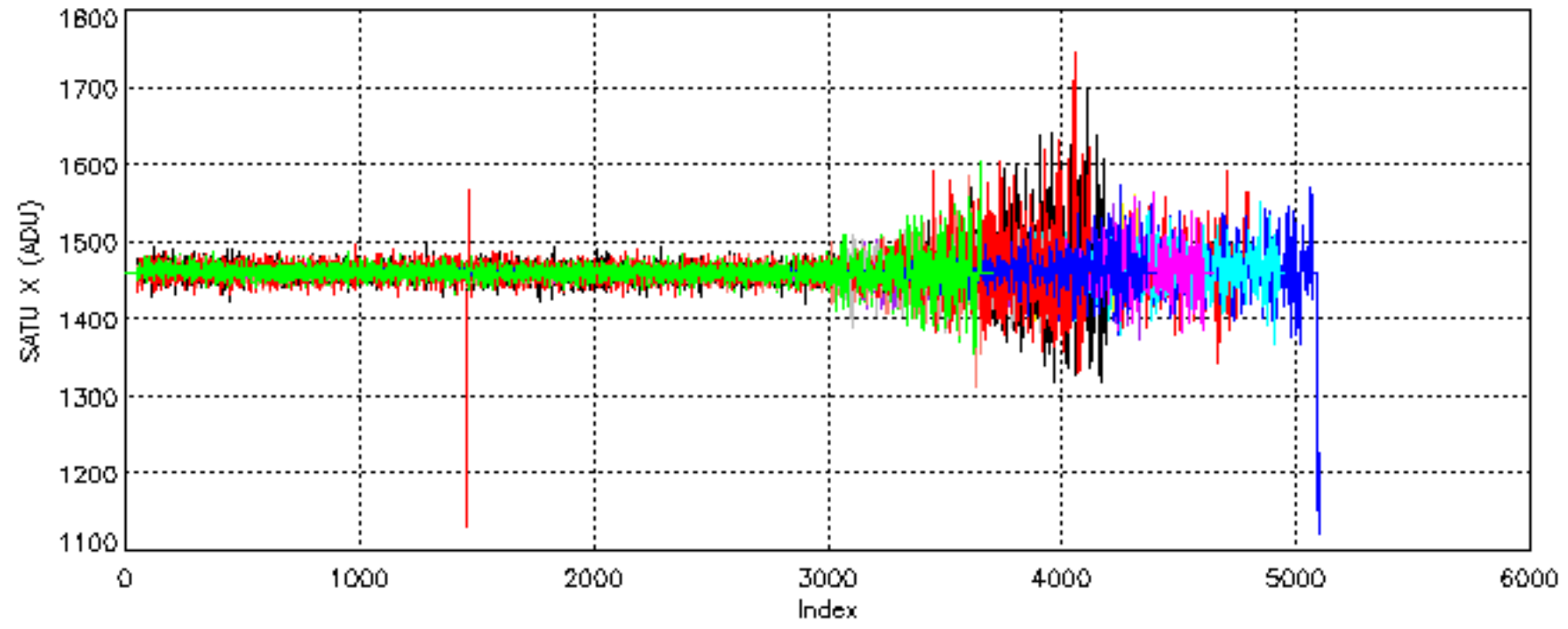


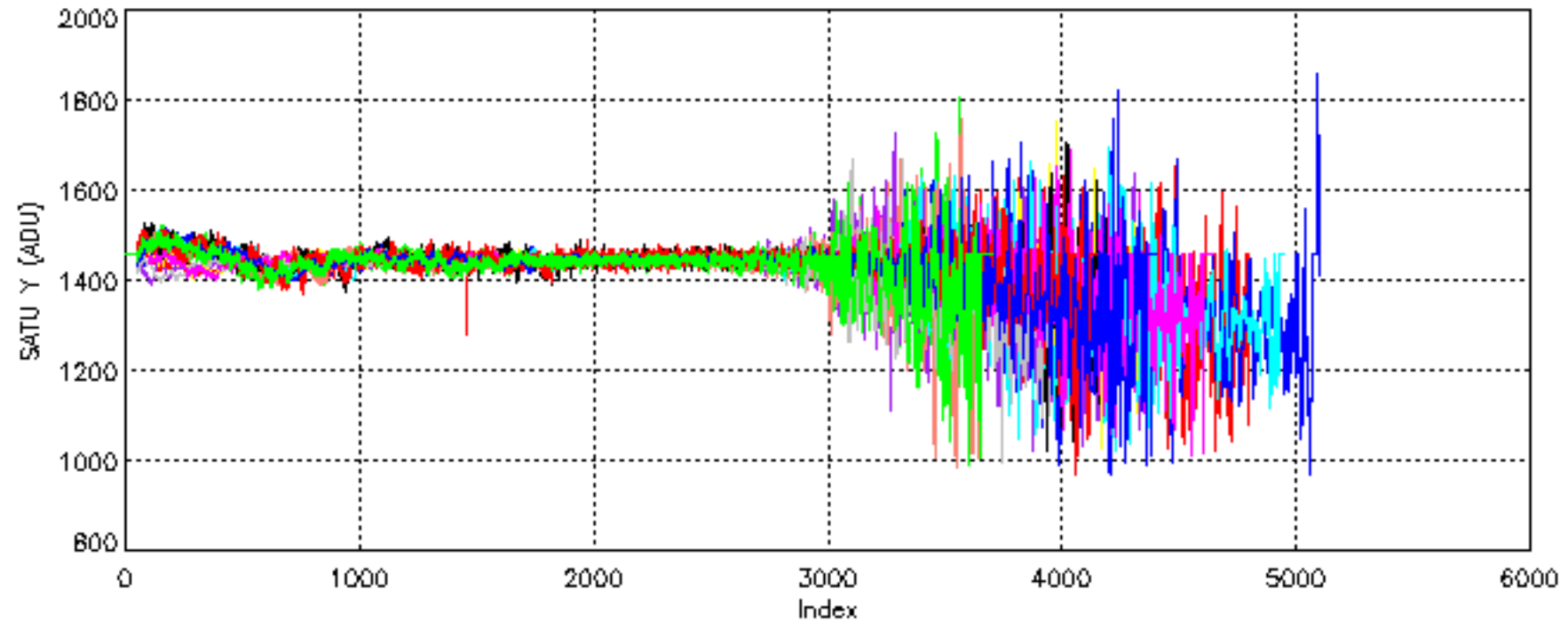
Tangent altitude at which the star is lost

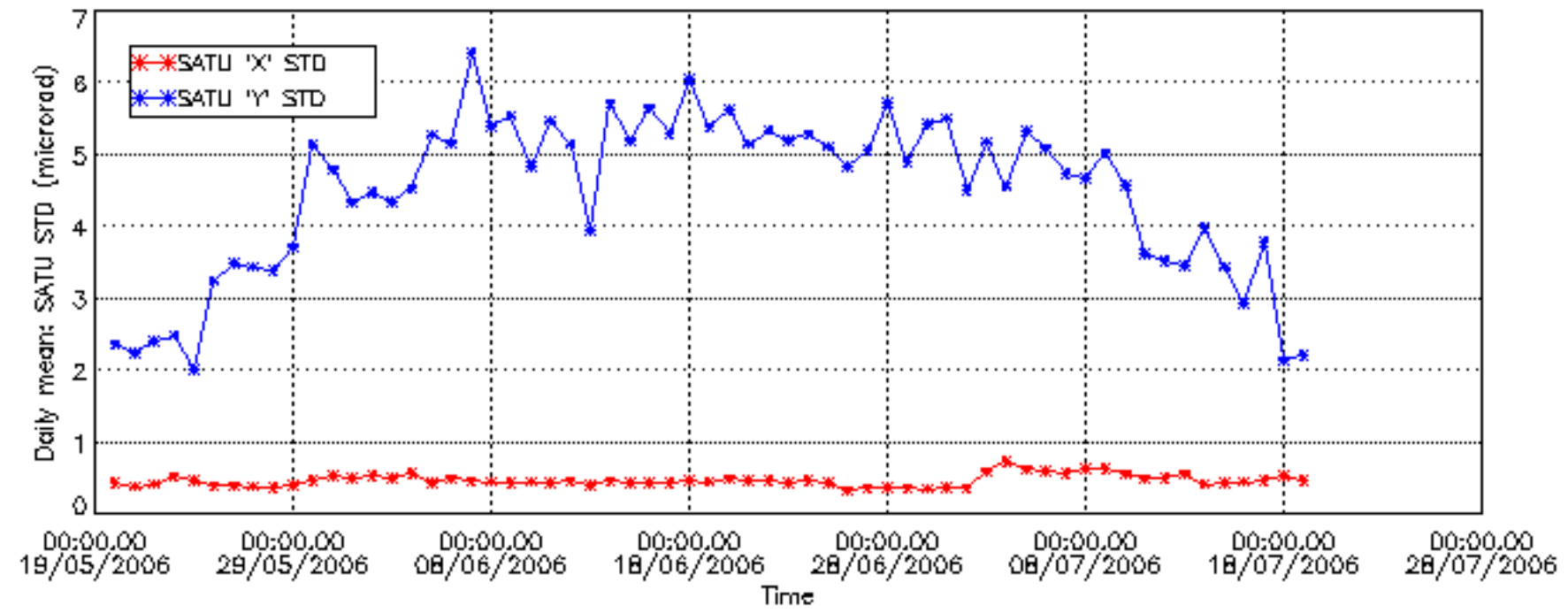


Tangent altitude at which the star is lost









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 4; 482.2; 01-JUL-2006 01:03:02; Dark ; 41.5; 148; Alp Tuc ; 2.88; 4100;occ; 83; 0;22659
 5; 744.3; 01-JUL-2006 01:07:24; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;22659
 6; 1062.5; 01-JUL-2006 01:12:43; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;22659
 7; 1170.7; 01-JUL-2006 01:14:31; Dark ; 38.5; 40; The Sco ; 1.86; 7100;occ; 77; 0;22659
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 9; 1354.9; 01-JUL-2006 01:17:35; Dark ; 48.5; 116; 19Del Sgr ; 2.70; 4100;occ; 97; 0;22659
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 12; 2121.9; 01-JUL-2006 01:30:22; Bright; 36.5; 59; 55Alp Oph ; 2.08; 8900;occ; 73; 0;22659
 13; 2283.2; 01-JUL-2006 01:33:03; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;22659
 14; 2447.8; 01-JUL-2006 01:35:48; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;22659
 15; 2809.2; 01-JUL-2006 01:41:49; Bright; 35.0; 130; 23Bet Dra ; 2.80; 5800;occ; 70; 0;22659
 16; 2952.2; 01-JUL-2006 01:44:12; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;22659
 17; 3191.1; 01-JUL-2006 01:48:11; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;22659
 18; 3444.7; 01-JUL-2006 01:52:25; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;22659
 19; 4063.2; 01-JUL-2006 02:02:43; Bright; 35.5; 160; 23Gam Per ; 2.93; 4700;occ; 71; 0;22659
 20; 4130.4; 01-JUL-2006 02:03:51; Bright; 36.5; 35; 33Alp Per ; 1.79; 6250;occ; 73; 0;22659

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 6; 1062.7; 01-JUL-2006 02:53:19; Dark ; 38.5; 147; Alp Ara ; 2.88; 26000;occ; 77; 0;22660
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 13; 2283.4; 01-JUL-2006 03:13:39; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;22660
 14; 2447.9; 01-JUL-2006 03:16:24; Bright; 34.0; 133; 40Zet Her ; 2.81; 6000;occ; 68; 0;22660
 15; 2809.2; 01-JUL-2006 03:22:25; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;22660
 16; 2952.3; 01-JUL-2006 03:24:48; Bright; 33.5; 119; 14Eta Dra ; 2.73; 4700;occ; 67; 0;22660
 17; 3191.3; 01-JUL-2006 03:28:47; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;22660
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 9; 1171.1; 01-JUL-2006 04:35:43; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;22661
 10; 1270.8; 01-JUL-2006 04:37:23; Dark ; 41.5; 25; 35Lam Sco ; 1.62; 28000;occ; 83; 0;22661
 11; 1355.3; 01-JUL-2006 04:38:47; Dark ; 49.0; 116; 19Del Sgr ; 2.70; 4100;occ; 98; 0;22661
 12; 1642.8; 01-JUL-2006 04:43:35; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;22661
 13; 1981.8; 01-JUL-2006 04:49:14; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;22661
 14; 2121.8; 01-JUL-2006 04:51:34; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 0;22661
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 19; 3191.4; 01-JUL-2006 05:09:23; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;22661
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 6; 484.0; 01-JUL-2006 06:04:52; Dark ; 42.0; 148; Alp Tuc ; 2.88; 4100;occ; 84; 0;22662

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9; 1171.3; 01-JUL-2006 06:16:19; Dark ; 42.0; 40; The Sco ; 1.86; 7100;occ; 84; 0;22662
10; 1271.0; 01-JUL-2006 06:17:59; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;22662
11; 1355.6; 01-JUL-2006 06:19:24; Dark ; 46.0; 116; 19Del Sgr ; 2.70; 4100;occ; 92; 0;22662
12; 1642.9; 01-JUL-2006 06:24:11; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;22662
13; 1981.8; 01-JUL-2006 06:29:50; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;22662
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18; 2952.2; 01-JUL-2006 06:46:00; Bright; 34.5; 119; 14Eta Dra ; 2.73; 4700;occ; 69; 0;22662
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6; 1064.8; 01-JUL-2006 21:19:56; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;22671
7; 1173.1; 01-JUL-2006 21:21:45; Dark ; 38.5; 40; The Sco ; 1.86; 7100;occ; 77; 0;22671
8; 1272.8; 01-JUL-2006 21:23:24; Dark ; 37.5; 25; 35Lam Sco ; 1.62; 28000;occ; 75; 0;22671
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17; 3192.7; 01-JUL-2006 21:55:24; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;22671
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 9; 245.7; 25-JUL-2006 06:46:54; Dark ; 36.5; 9; Alp Eri ; 0.45; 24000;occ; 73; 0;23006
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12; 869.8; 25-JUL-2006 06:57:18; Dark ; 38.5; 31; Alp Gru ; 1.73; 15200;occ; 77; 0;23006
13; 1545.4; 25-JUL-2006 07:08:34; Bright; 32.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 64; 0;23006
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