

GOMOS Daily Report 27-JUL-2008

Level 0 and Level 1 products

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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	04AUG2008 13:22:39
Data source version	GOMOS/5.00
Start time of products	27-07-2008 (27JUL2008 00:00:00)
Stop time of products	28-07-2008 (28JUL2008 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)

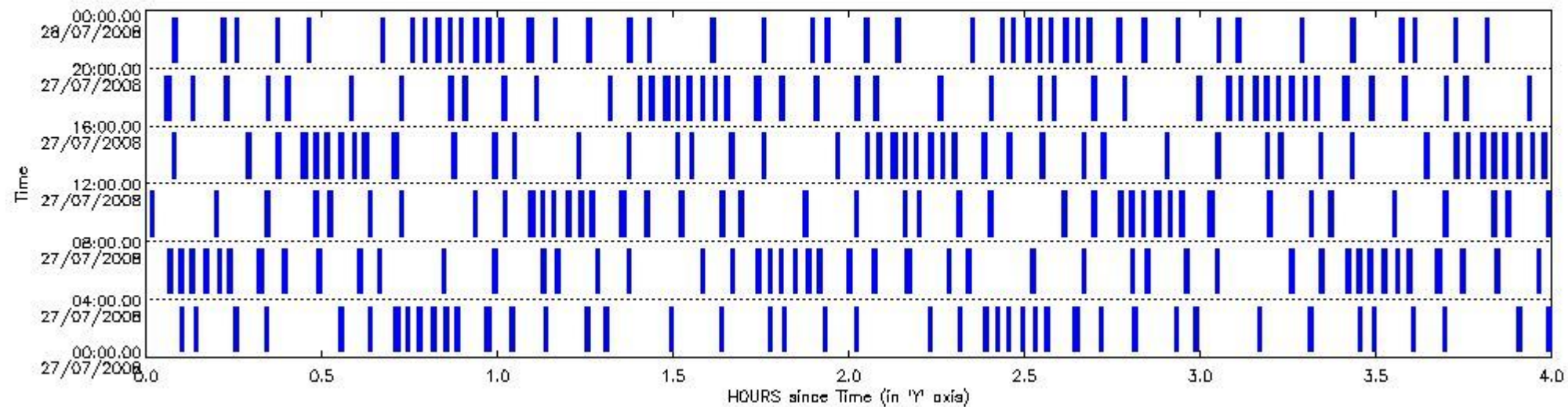
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



2.3 Summary of missing occultations (red segments in previous plot)

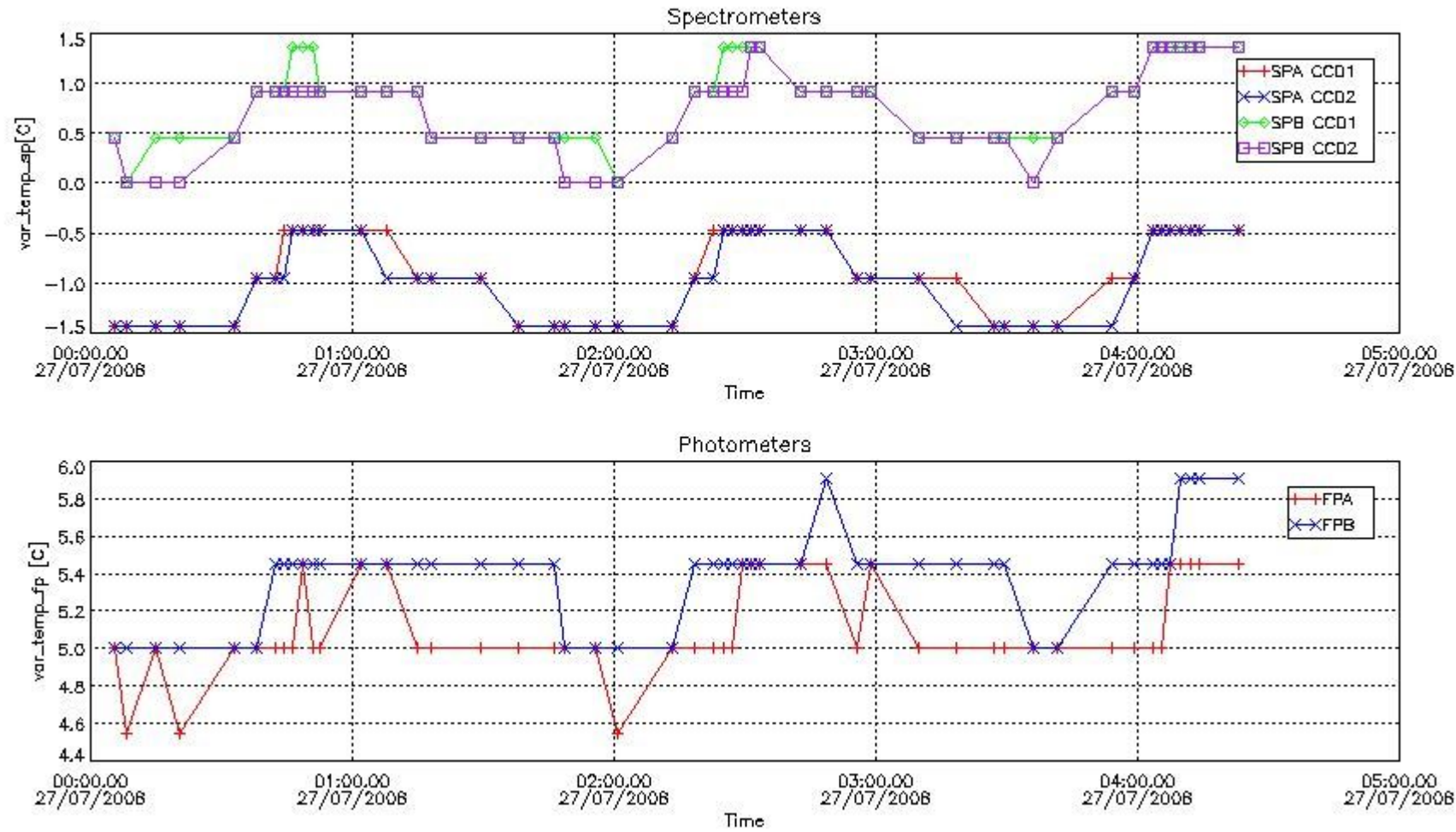
No missing products.

2.4 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_1PNPDE20080727_000541_000000372070_00374_33494_1793.N1	27-JUL-2008 00:05:41	Bright	36.500	5	3Alp Lyr	0.033000	11000.	73	33494	No
2	GOM_TRA_1PNPDE20080727_000805_000000372070_00374_33494_1794.N1	27-JUL-2008 00:08:05	Bright	37.000	144	18Del Cyg	2.8600	11000.	74	33494	No
3	GOM_TRA_1PNPDE20080727_001455_000000412070_00374_33494_1795.N1	27-JUL-2008 00:14:55	Bright	40.500	89	5Alp Cep	2.4510	8000.0	81	33494	No
4	GOM_TRA_1PNPDE20080727_002015_000000362070_00374_33494_1796.N1	27-JUL-2008 00:20:15	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	33494	No
5	GOM_TRA_1PNPDE20080727_003252_000000402070_00374_33494_1797.N1	27-JUL-2008 00:32:52	Bright	39.500	6	13Alp Aur	0.080000	3400.0	79	33494	No
6	GOM_TRA_1PNPDE20080727_003756_000000392070_00374_33494_1798.N1	27-JUL-2008 00:37:56	Bright	39.000	28	12Bet Tau	1.6500	15200.	78	33494	No
7	GOM_TRA_1PNPDE20080727_004218_000000562070_00374_33494_1799.N1	27-JUL-2008 00:42:18	Dark	56.000	13	87Alp Tau	0.86700	3800.0	112	33494	No
8	GOM_TRA_1PNPDE20080727_004421_000000372070_00374_33494_1800.N1	27-JUL-2008 00:44:21	Dark	36.500	27	24Gam Ori	1.6360	26000.	73	33494	No
9	GOM_TRA_1PNPDE20080727_004617_000000392070_00374_33494_1801.N1	27-JUL-2008 00:46:17	Dark	39.000	30	46Eps Ori	1.6940	30000.	78	33494	No
10	GOM_TRA_1PNPDE20080727_004838_000000492070_00374_33494_1802.N1	27-JUL-2008 00:48:38	Dark	48.500	7	19Bet Ori	0.10000	14000.	97	33494	No
11	GOM_TRA_1PNPDE20080727_005054_000000402070_00374_33494_1803.N1	27-JUL-2008 00:50:54	Dark	39.500	101	11Alp Lep	2.5820	7000.0	79	33494	No
12	GOM_TRA_1PNPDE20080727_005241_000000512070_00374_33494_1933.N1	27-JUL-2008 00:52:41	Dark	51.000	165	34Gam Eri	2.9500	3200.0	102	33494	No

13	GOM_TRA_1PNPDE20080727_010203_000000442070_00374_33494_1934.N1	27-JUL-2008 01:02:03	Dark	44.000	157	The1Eri	2.9060	9300.0	88	33494	No
14	GOM_TRA_1PNPDE20080727_010750_000000432070_00375_33495_1935.N1	27-JUL-2008 01:07:50	Dark	43.000	9	Alp Eri	0.45300	24000.	86	33495	No
15	GOM_TRA_1PNPDE20080727_011457_000000392070_00375_33495_1936.N1	27-JUL-2008 01:14:57	Straylight	38.500	148	Alp Tuc	2.8780	4100.0	77	33495	No
16	GOM_TRA_1PNPDE20080727_011811_000000462070_00375_33495_1937.N1	27-JUL-2008 01:18:11	Straylight	46.000	31	Alp Gru	1.7340	15200.	92	33495	No
17	GOM_TRA_1PNPDE20080727_012914_000000382070_00375_33495_1938.N1	27-JUL-2008 01:29:14	Bright	37.500	155	41Pi Sgr	2.9000	6600.0	75	33495	No
18	GOM_TRA_1PNPDE20080727_013755_000000392070_00375_33495_1939.N1	27-JUL-2008 01:37:55	Bright	39.000	11	53Alp Aql	0.76500	8000.0	78	33495	No
19	GOM_TRA_1PNPDE20080727_014616_000000372070_00375_33495_1940.N1	27-JUL-2008 01:46:16	Bright	37.000	5	3Alp Lyr	0.033000	11000.	74	33495	No
20	GOM_TRA_1PNPDE20080727_014841_000000372070_00375_33495_1941.N1	27-JUL-2008 01:48:41	Bright	37.000	144	18Del Cyg	2.8600	11000.	74	33495	No
21	GOM_TRA_1PNPDE20080727_015531_000000402070_00375_33495_1942.N1	27-JUL-2008 01:55:31	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	33495	No
22	GOM_TRA_1PNPDE20080727_020051_000000332070_00375_33495_1943.N1	27-JUL-2008 02:00:51	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	33495	No
23	GOM_TRA_1PNPDE20080727_021328_000000412070_00375_33495_2127.N1	27-JUL-2008 02:13:28	Bright	41.000	6	13Alp Aur	0.080000	3400.0	82	33495	No
24	GOM_TRA_1PNPDE20080727_021833_000000392070_00375_33495_2128.N1	27-JUL-2008 02:18:33	Bright	39.000	28	12Bet Tau	1.6500	15200.	78	33495	No
25	GOM_TRA_1PNPDE20080727_022254_000000562070_00375_33495_2129.N1	27-JUL-2008 02:22:54	Dark	55.500	13	87Alp Tau	0.86700	3800.0	111	33495	No
26	GOM_TRA_1PNPDE20080727_022458_000000402070_00375_33495_2130.N1	27-JUL-2008 02:24:58	Dark	39.500	27	24Gam Ori	1.6360	26000.	79	33495	No
27	GOM_TRA_1PNPDE20080727_022653_000000382070_00375_33495_2131.N1	27-JUL-2008 02:26:53	Dark	38.000	30	46Eps Ori	1.6940	30000.	76	33495	No
28	GOM_TRA_1PNPDE20080727_022915_000000442070_00375_33495_2132.N1	27-JUL-2008 02:29:15	Dark	44.000	7	19Bet Ori	0.10000	14000.	88	33495	No
29	GOM_TRA_1PNPDE20080727_023130_000000392070_00375_33495_2133.N1	27-JUL-2008 02:31:30	Dark	39.000	101	11Alp Lep	2.5820	7000.0	78	33495	No
30	GOM_TRA_1PNPDE20080727_023318_000000542070_00375_33495_2134.N1	27-JUL-2008 02:33:18	Dark	53.500	165	34Gam Eri	2.9500	3200.0	107	33495	No
31	GOM_TRA_1PNPDE20080727_024239_000000442070_00375_33495_2135.N1	27-JUL-2008 02:42:39	Dark	44.000	157	The1Eri	2.9060	9300.0	88	33495	No
32	GOM_TRA_1PNPDE20080727_024826_000000412070_00376_33496_2136.N1	27-JUL-2008 02:48:26	Dark	41.000	9	Alp Eri	0.45300	24000.	82	33496	No
33	GOM_TRA_1PNPDE20080727_025533_000000432070_00376_33496_2137.N1	27-JUL-2008 02:55:33	Straylight	42.500	148	Alp Tuc	2.8780	4100.0	85	33496	No
34	GOM_TRA_1PNPDE20080727_025848_000000522070_00376_33496_2138.N1	27-JUL-2008 02:58:48	Straylight	52.000	31	Alp Gru	1.7340	15200.	104	33496	No
35	GOM_TRA_1PNPDE20080727_030950_000000352070_00376_33496_2139.N1	27-JUL-2008 03:09:50	Bright	35.000	155	41Pi Sgr	2.9000	6600.0	70	33496	No
36	GOM_TRA_1PNPDE20080727_031831_000000412070_00376_33496_2140.N1	27-JUL-2008 03:18:31	Bright	40.500	11	53Alp Aql	0.76500	8000.0	81	33496	No
37	GOM_TRA_1PNPDE20080727_032652_000000342070_00376_33496_2141.N1	27-JUL-2008 03:26:52	Bright	34.000	5	3Alp Lyr	0.033000	11000.	68	33496	No
38	GOM_TRA_1PNPDE20080727_032916_000000392070_00376_33496_2142.N1	27-JUL-2008 03:29:16	Bright	38.500	144	18Del Cyg	2.8600	11000.	77	33496	No
39	GOM_TRA_1PNPDE20080727_033606_000000372070_00376_33496_2143.N1	27-JUL-2008 03:36:06	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	33496	No
40	GOM_TRA_1PNPDE20080727_034127_000000372070_00376_33496_2144.N1	27-JUL-2008 03:41:27	Bright	36.500	49	1Alp UMi	1.9900	6300.0	73	33496	No
41	GOM_TRA_1PNPDE20080727_035404_000000392070_00376_33496_2257.N1	27-JUL-2008 03:54:04	Bright	39.000	6	13Alp Aur	0.080000	3400.0	78	33496	No
42	GOM_TRA_1PNPDE20080727_035909_000000402070_00376_33496_2258.N1	27-JUL-2008 03:59:09	Bright	40.000	28	12Bet Tau	1.6500	15200.	80	33496	No
43	GOM_TRA_1PNPDE20080727_040331_000000522070_00376_33496_2259.N1	27-JUL-2008 04:03:31	Dark	52.000	13	87Alp Tau	0.86700	3800.0	104	33496	No
44	GOM_TRA_1PNPDE20080727_040534_000000412070_00376_33496_2260.N1	27-JUL-2008 04:05:34	Dark	40.500	27	24Gam Ori	1.6360	26000.	81	33496	No
45	GOM_TRA_1PNPDE20080727_040729_000000362070_00376_33496_2261.N1	27-JUL-2008 04:07:29	Dark	36.000	30	46Eps Ori	1.6940	30000.	72	33496	No
46	GOM_TRA_1PNPDE20080727_040951_000000442070_00376_33496_2262.N1	27-JUL-2008 04:09:51	Dark	43.500	7	19Bet Ori	0.10000	14000.	87	33496	No
47	GOM_TRA_1PNPDE20080727_041206_000000422070_00376_33496_2263.N1	27-JUL-2008 04:12:06	Dark	41.500	101	11Alp Lep	2.5820	7000.0	83	33496	No
48	GOM_TRA_1PNPDE20080727_041355_000000482070_00376_33496_2264.N1	27-JUL-2008 04:13:55	Dark	48.000	165	34Gam Eri	2.9500	3200.0	96	33496	No
49	GOM_TRA_1PNPDE20080727_042316_000000452070_00376_33496_2265.N1	27-JUL-2008 04:23:16	Dark	45.000	157	The1Eri	2.9060	9300.0	90	33496	No

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



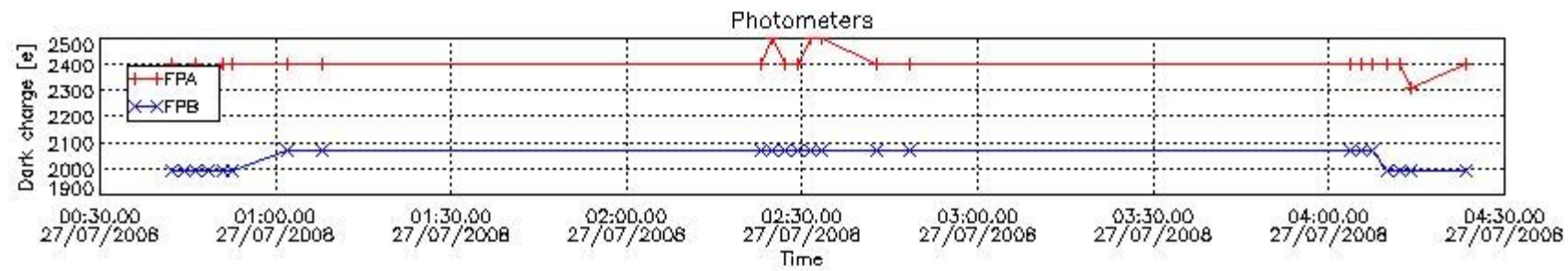
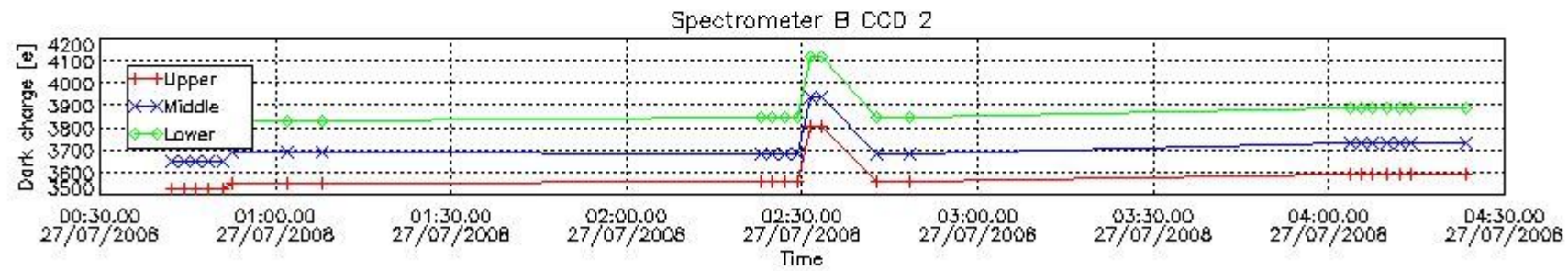
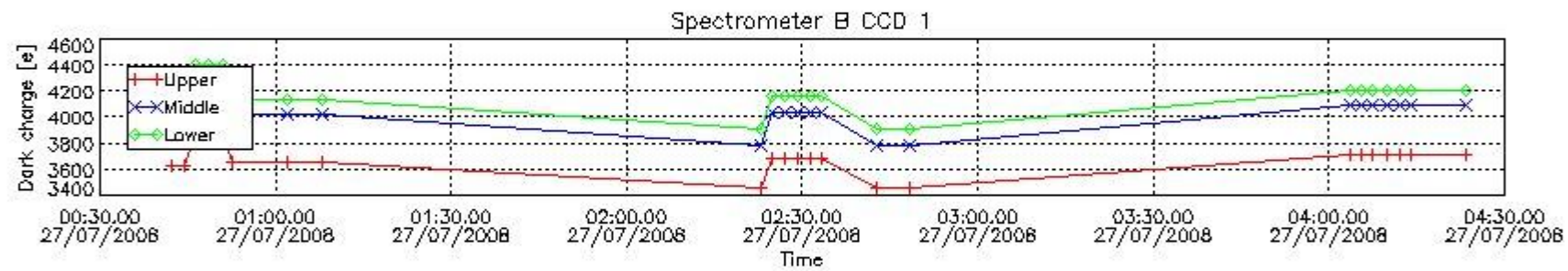
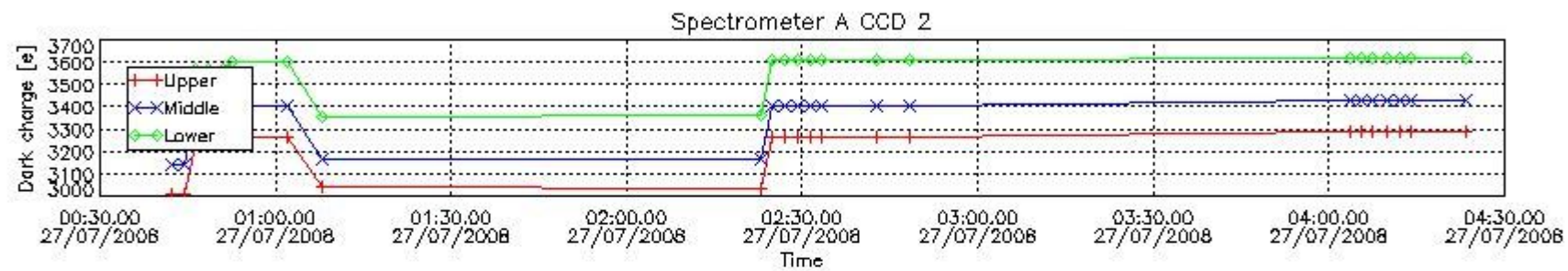
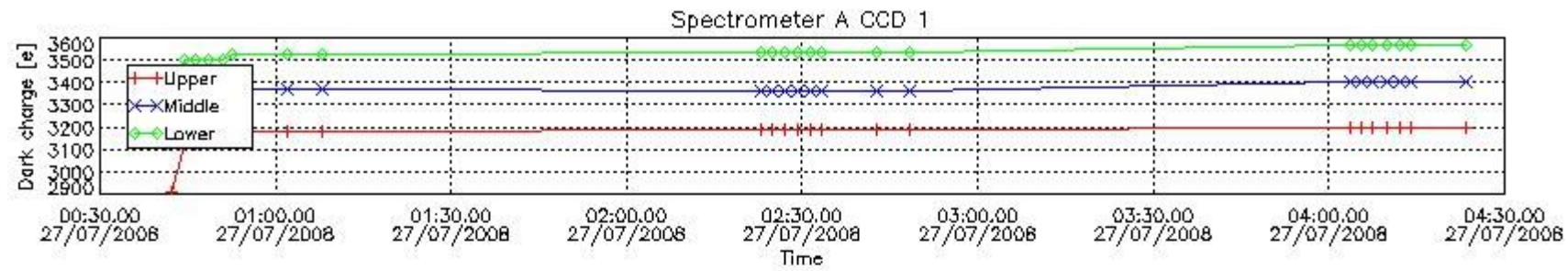
4. Overview of dark signal processing per product

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



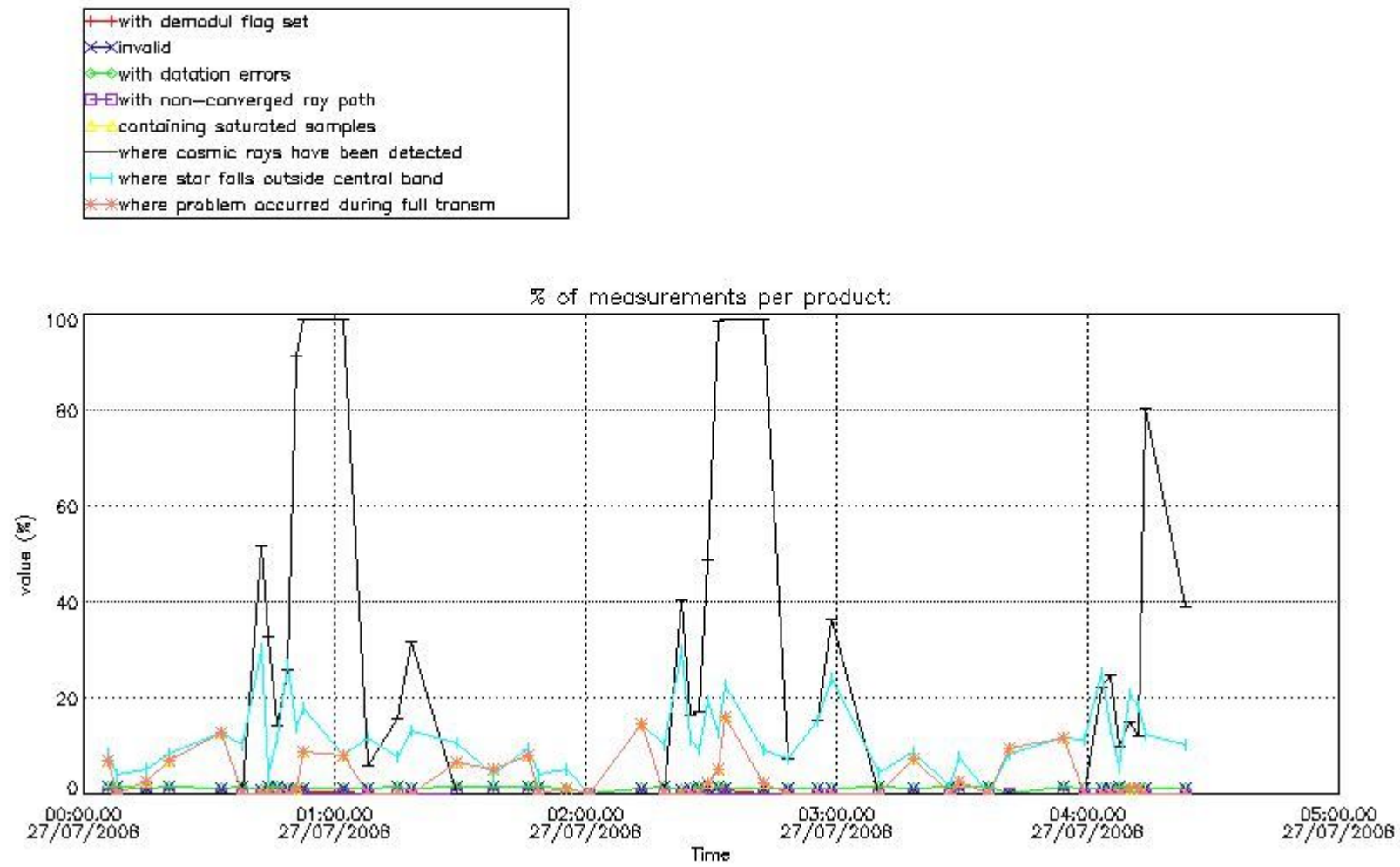
5. Demodulation flag and quality information monitoring

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.

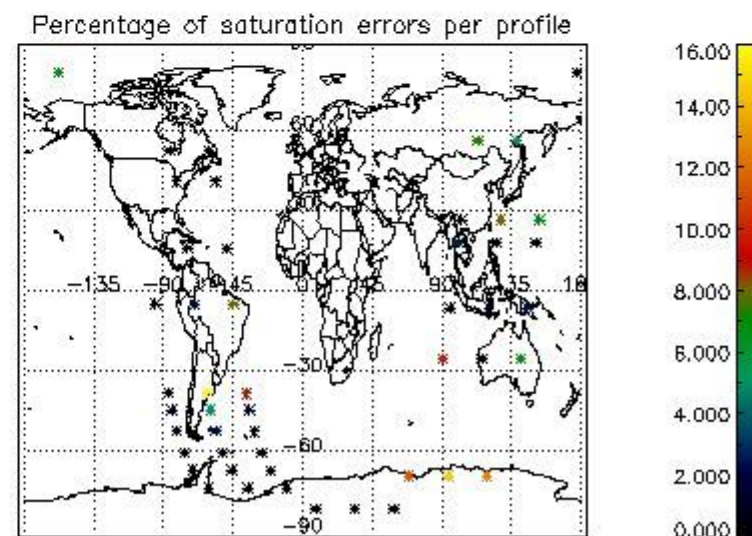
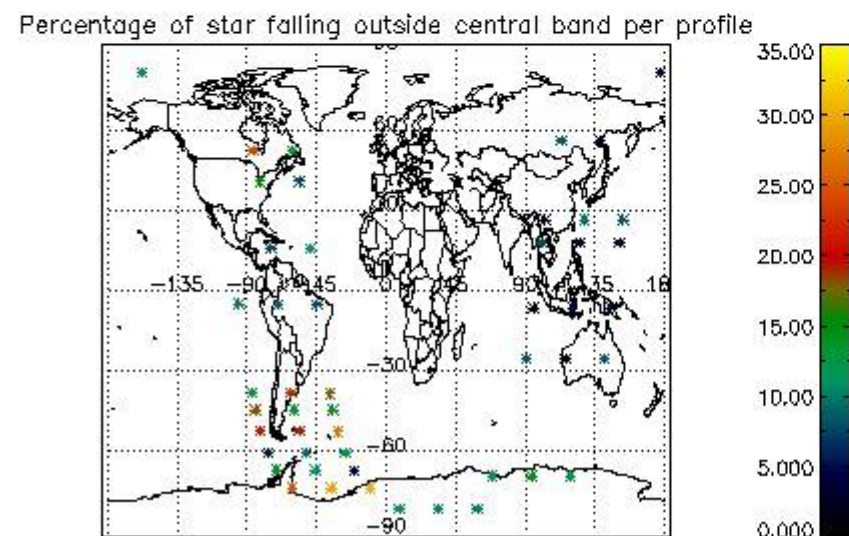
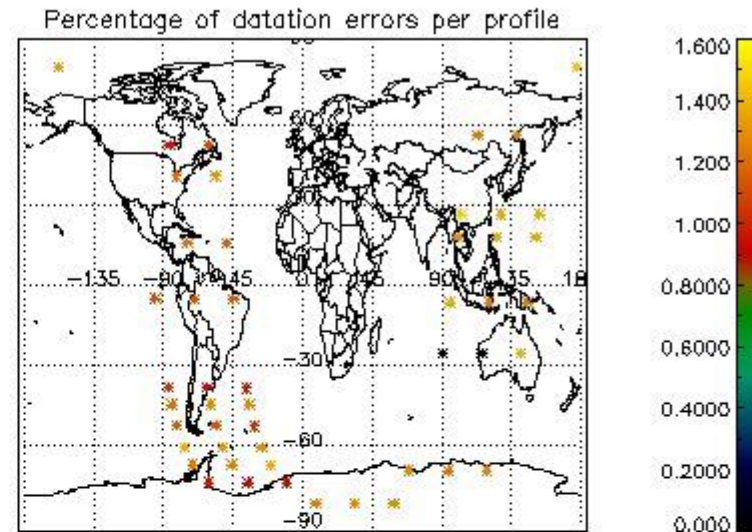
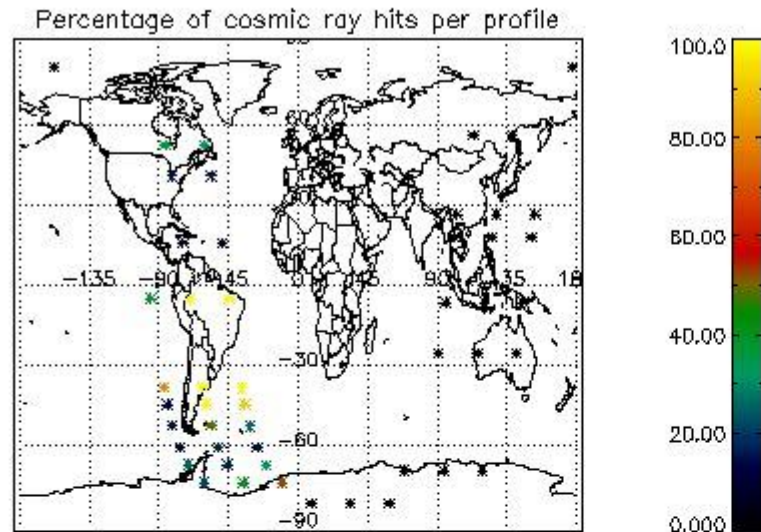
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	24.4898 %
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)



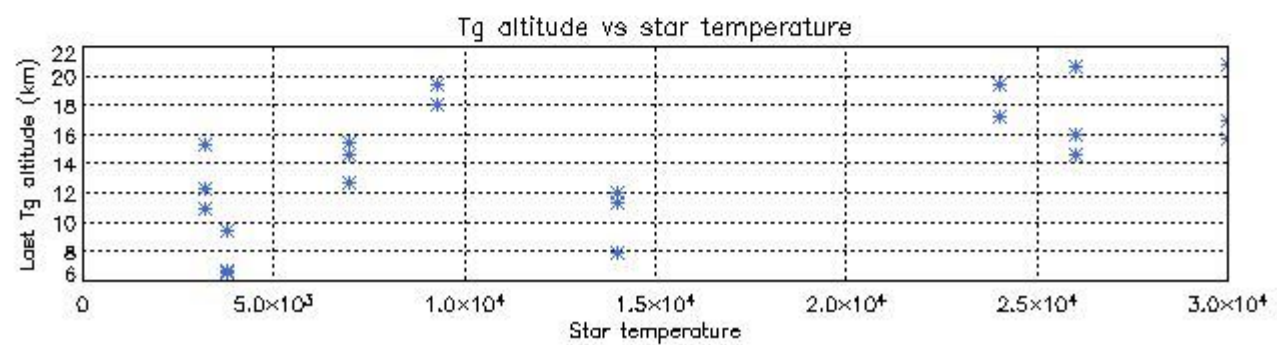
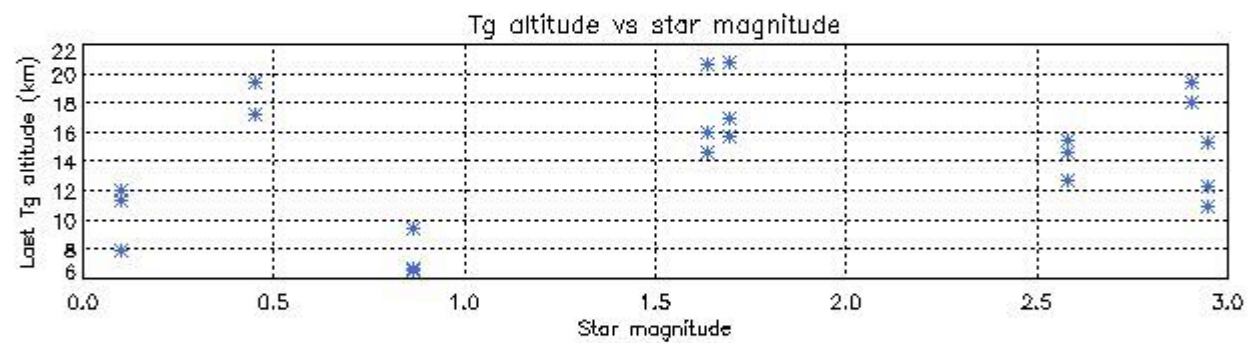
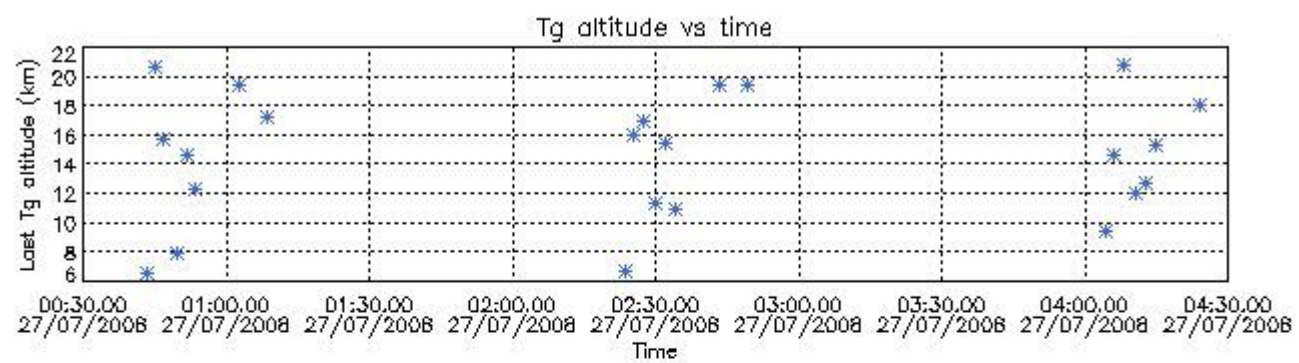
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.500	20.714	NaN
St. deviation:	4.3068	3.8471	NaN
Maximum:	20.709	29.634	NaN
Minimum:	6.5338	14.674	NaN
Number of data:	23.000	22.000	NaN

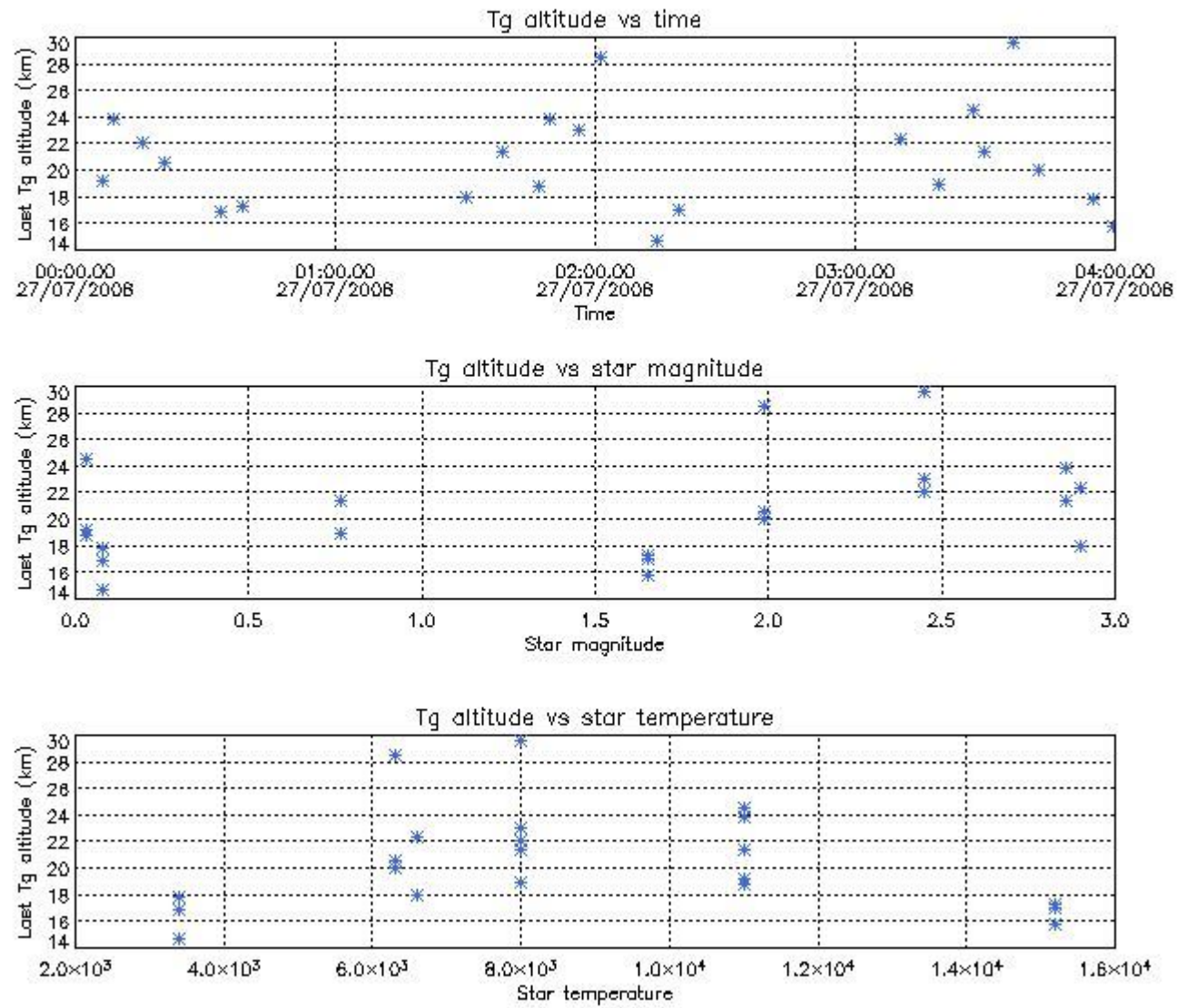
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

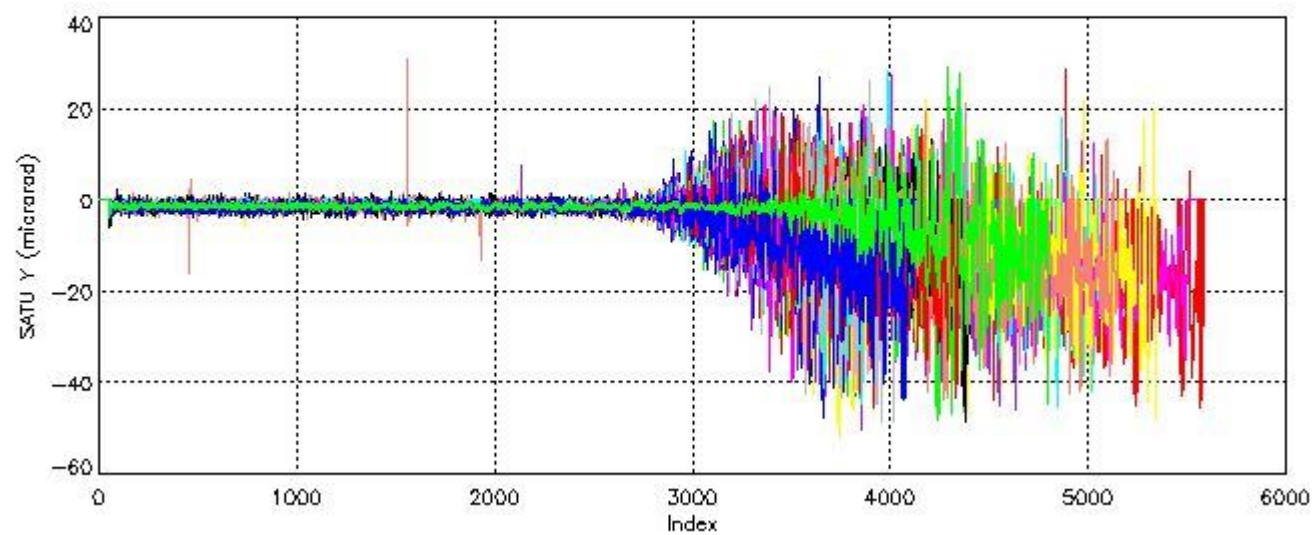
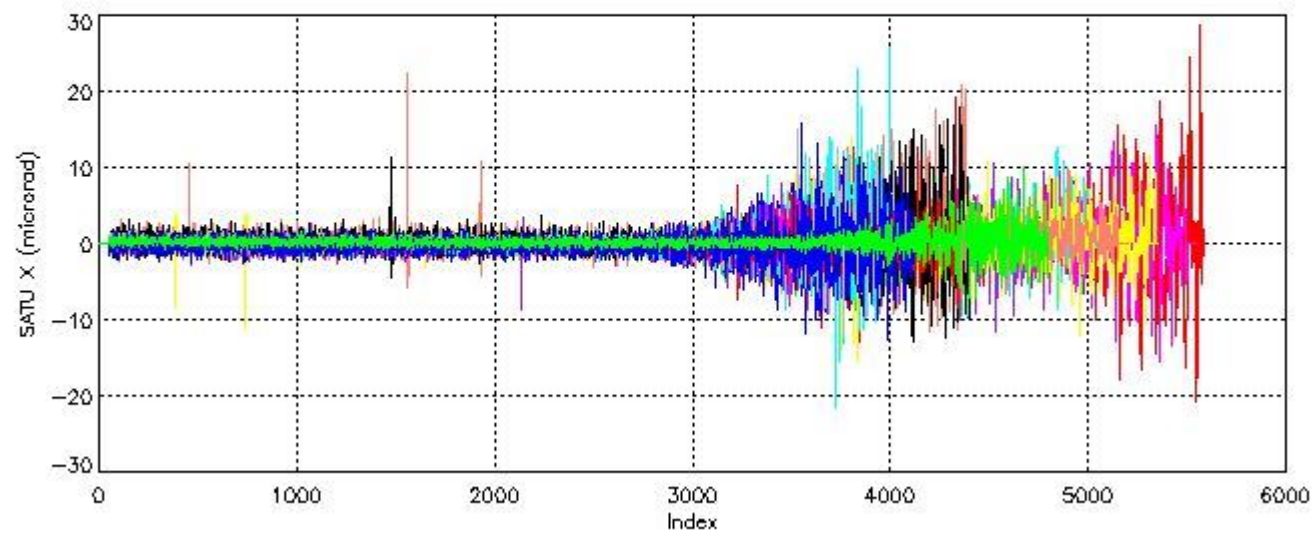


7. Star Acquisition and Tracking Unit (SATU)

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:	0.080052	-1.3380	0.12215	-1.3232
St. deviation:	0.45523	0.59447	0.62641	0.75085
Maximum:	10.500	4.3000	5.4000	4.8000
Minimum:	-11.200	-16.300	-5.4000	-8.1000

Number of data:	21400.	21400.	18900.	18900.
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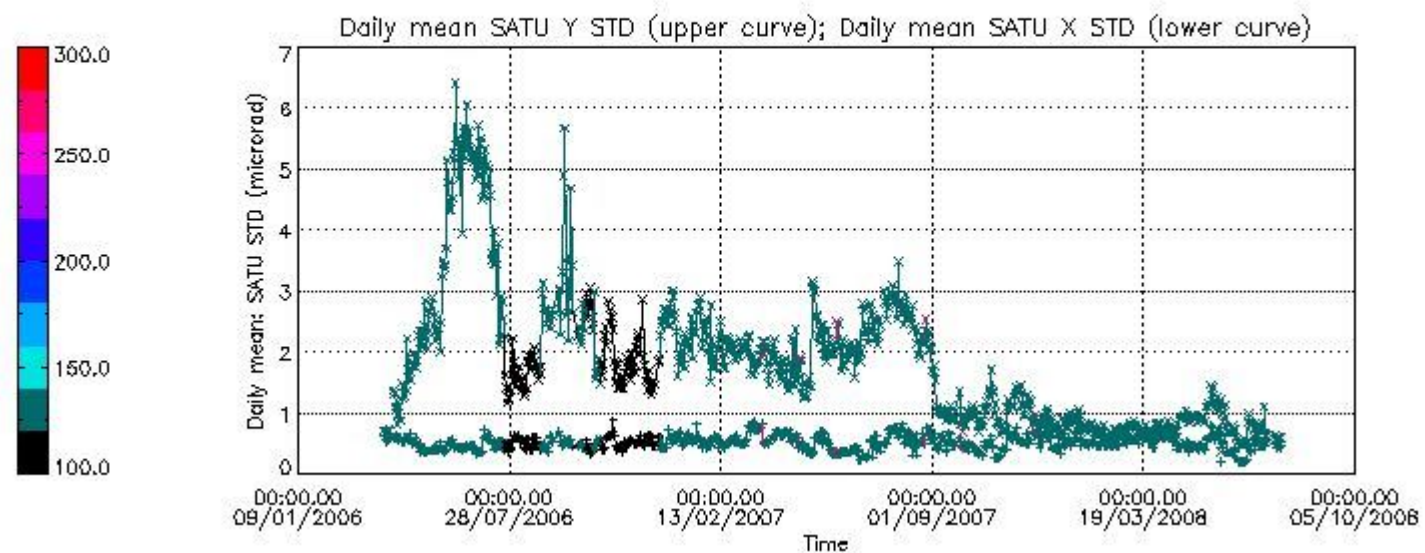
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

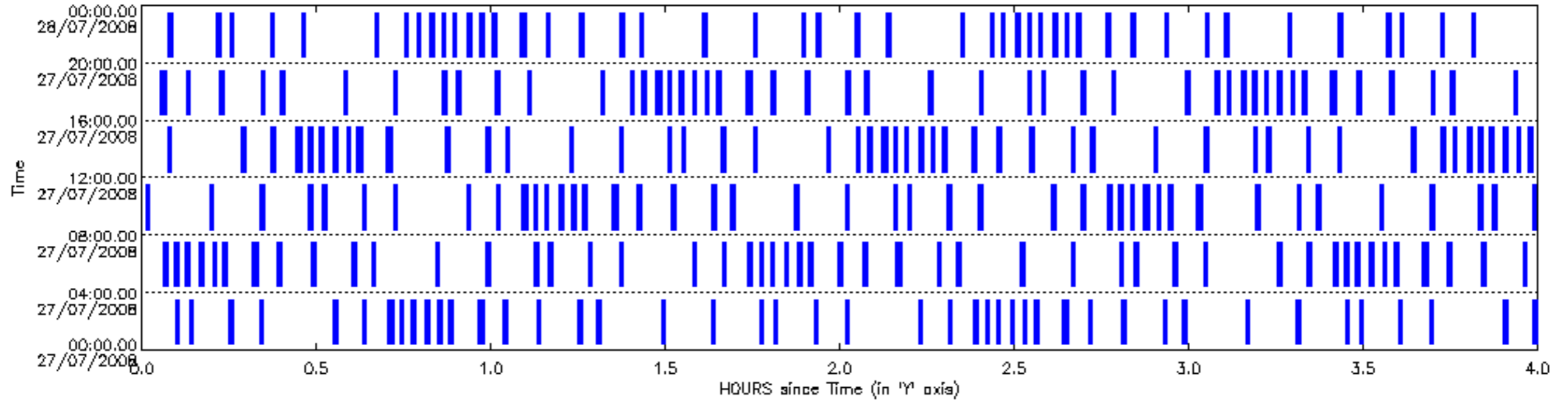
Lower curve: STD of SATU X axis

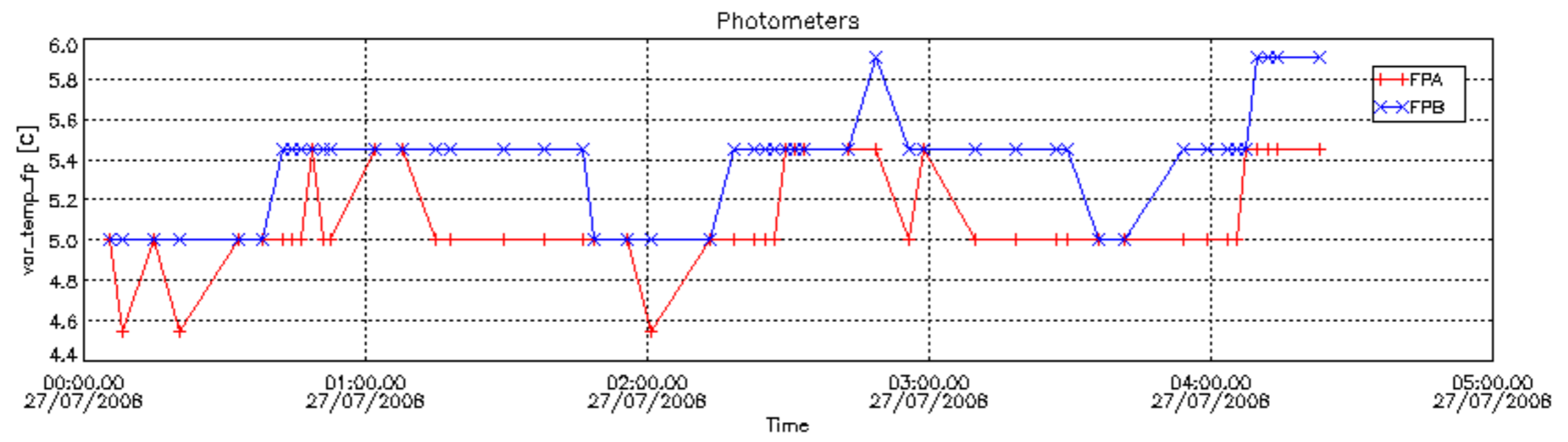
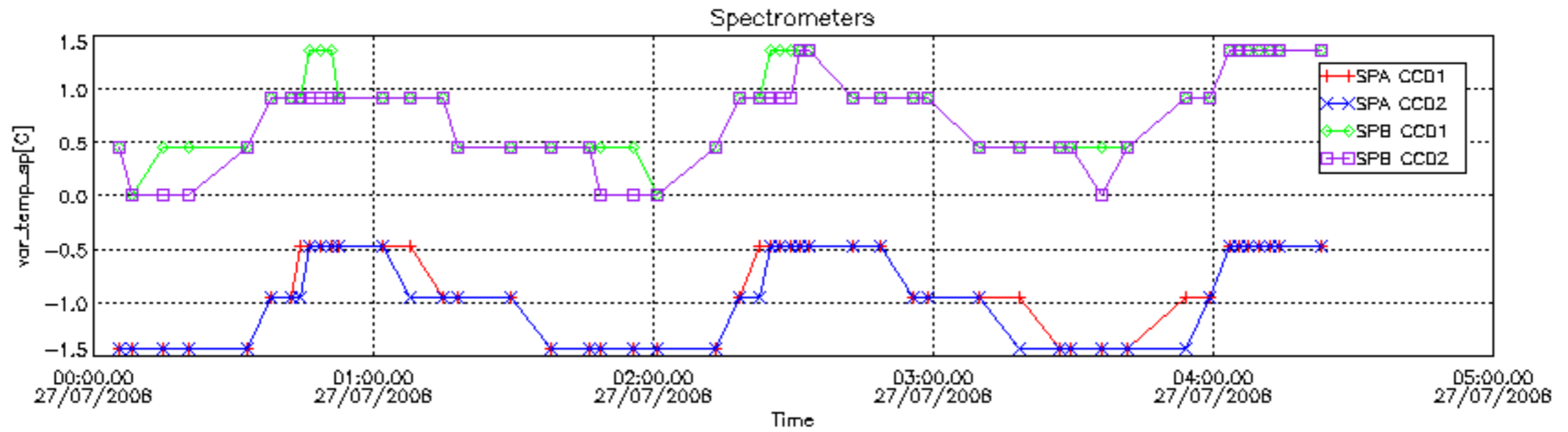


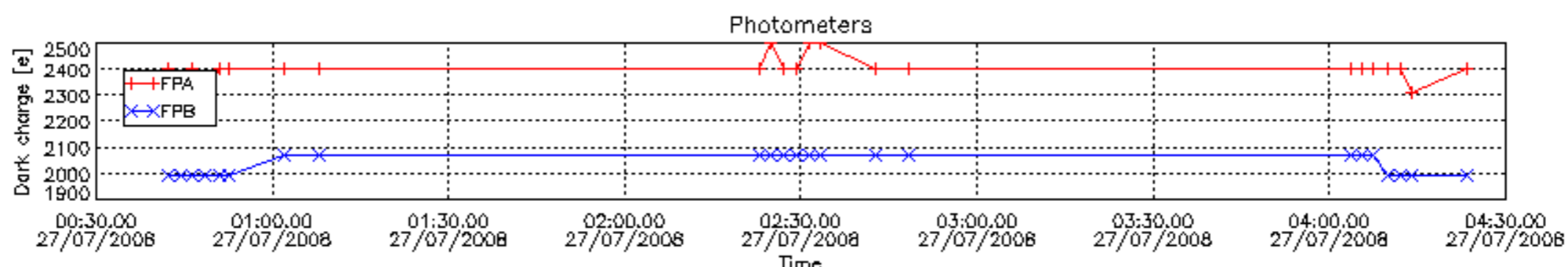
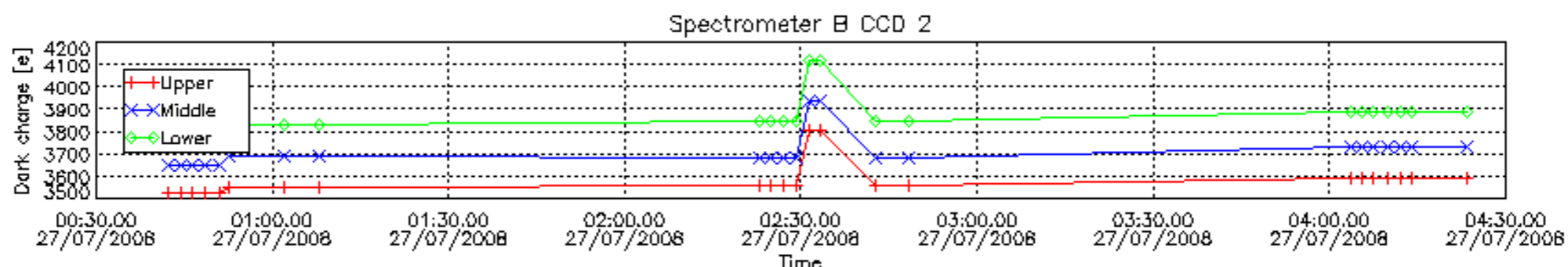
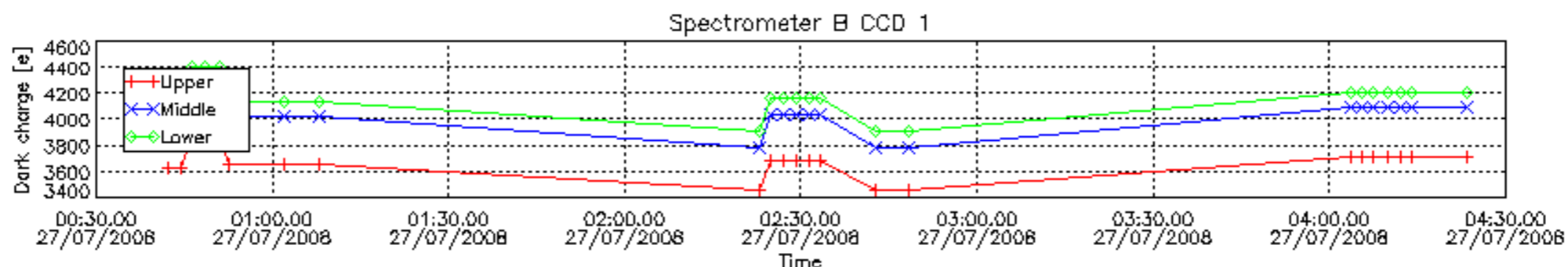
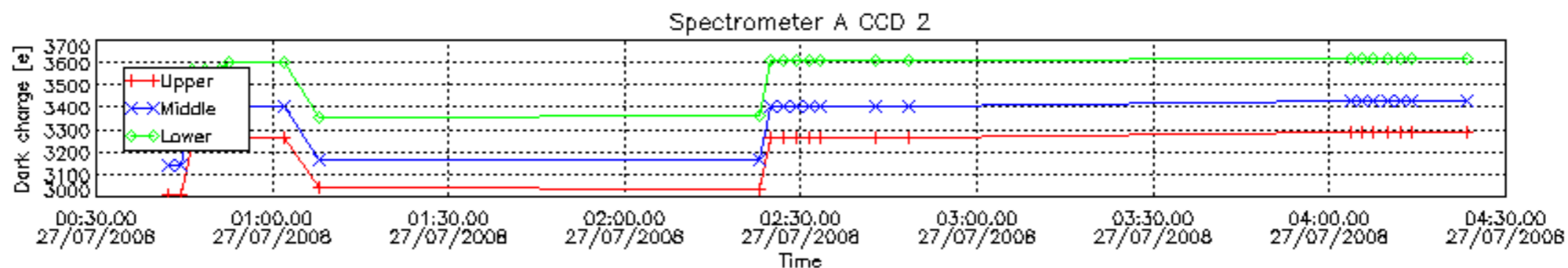
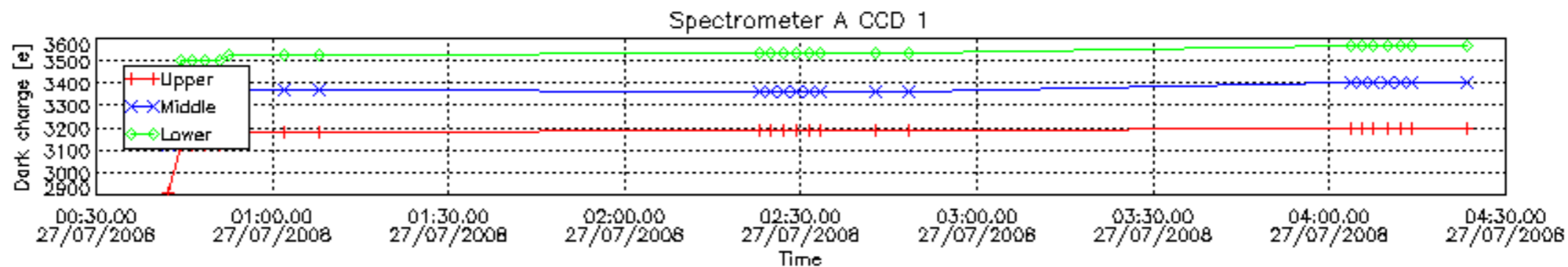
8. Auxiliary Data Files used for the production reported in section 2.4

The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

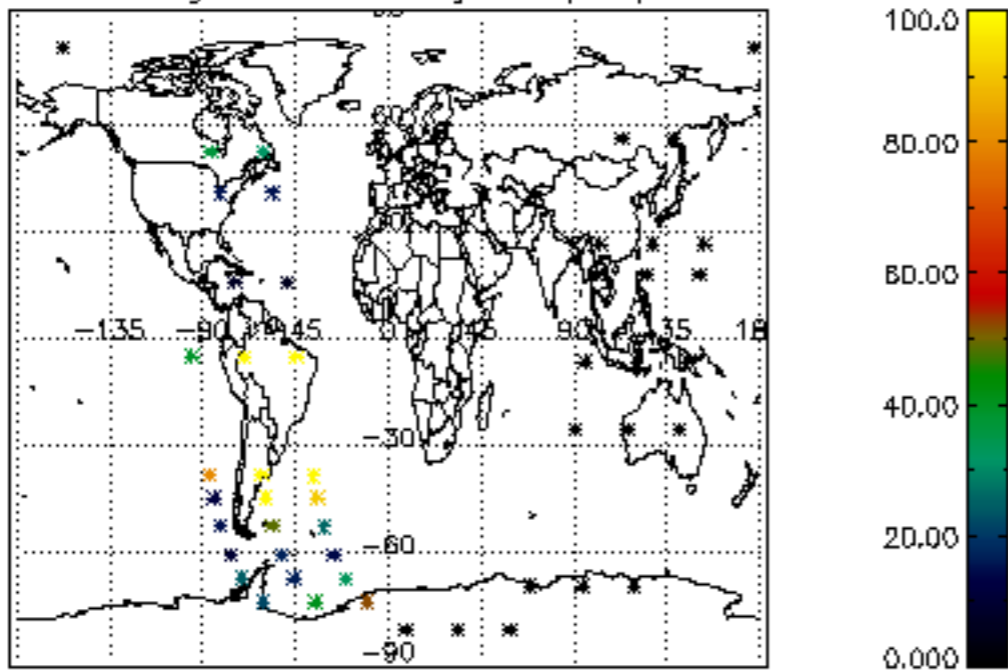
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	27-JUL-2008 00:05:41
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080711_132227_20080708_000000_20100101_000000	1	27-JUL-2008 00:05:41
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	27-JUL-2008 00:05:41
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	27-JUL-2008 00:05:41
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	27-JUL-2008 00:05:41
ECMWF_FILE	AUX_ECF_AXNECM20080726_072112_20080726_210000_20080727_090000	1	27-JUL-2008 00:05:41
ECMWF_FILE	AUX_ECF_AXNECM20080726_192110_20080727_030000_20080727_150000	41	27-JUL-2008 03:54:04
OPTIONAL_ECMWF_FILE	MISSING	1	27-JUL-2008 00:05:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080726_212918_000057382070_00372_33492_6029.N1	1	27-JUL-2008 00:05:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080726_231015_000057382070_00373_33493_6030.N1	12	27-JUL-2008 00:52:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080727_005112_000041442070_00374_33494_6031.N1	23	27-JUL-2008 02:13:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080727_020535_000054192070_00375_33495_6032.N1	41	27-JUL-2008 03:54:04



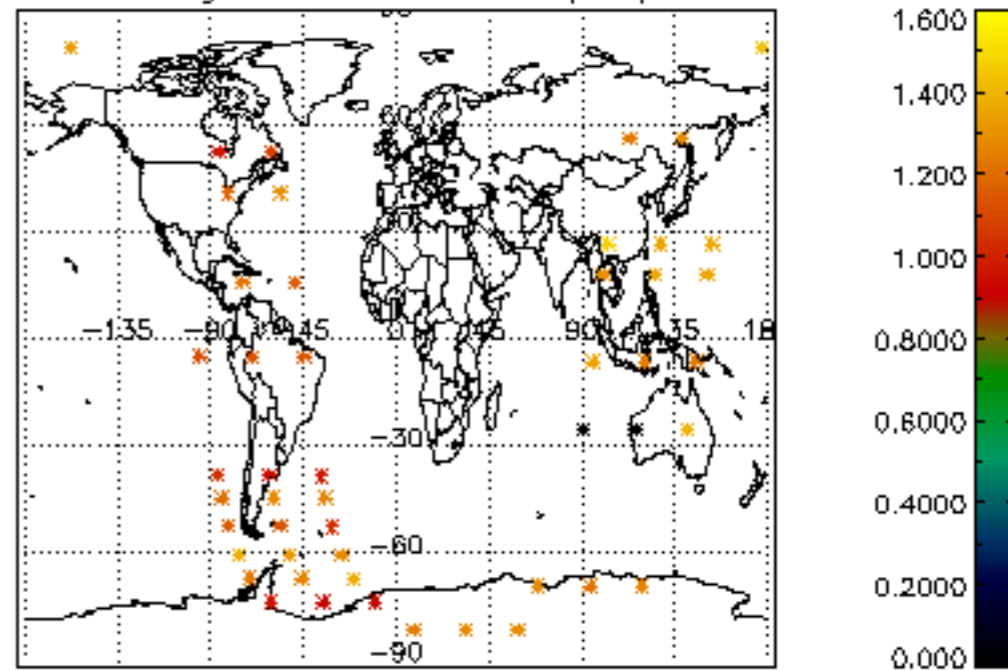




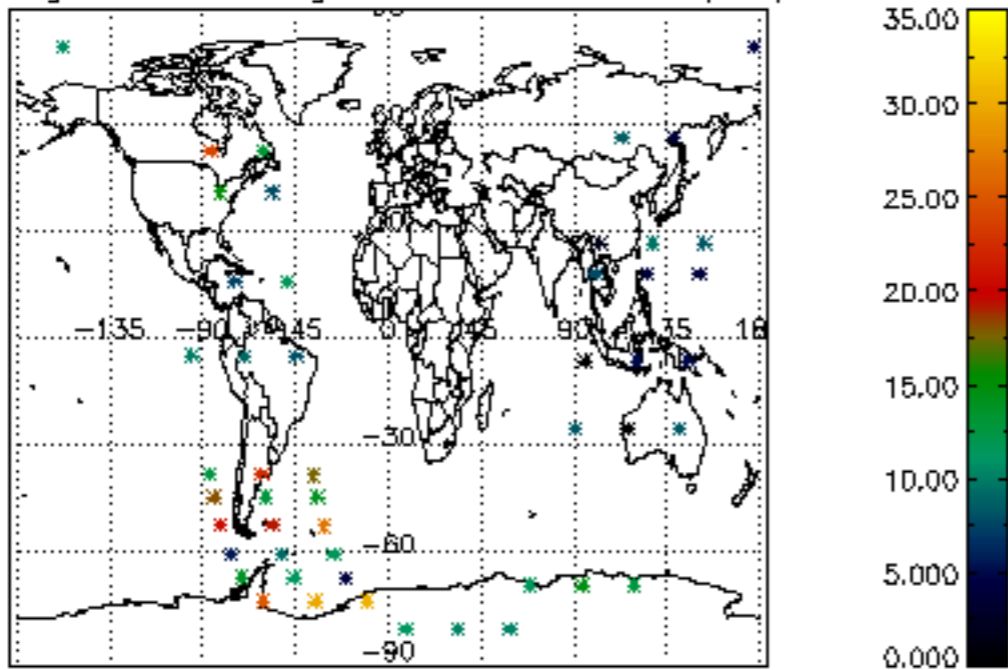
Percentage of cosmic ray hits per profile



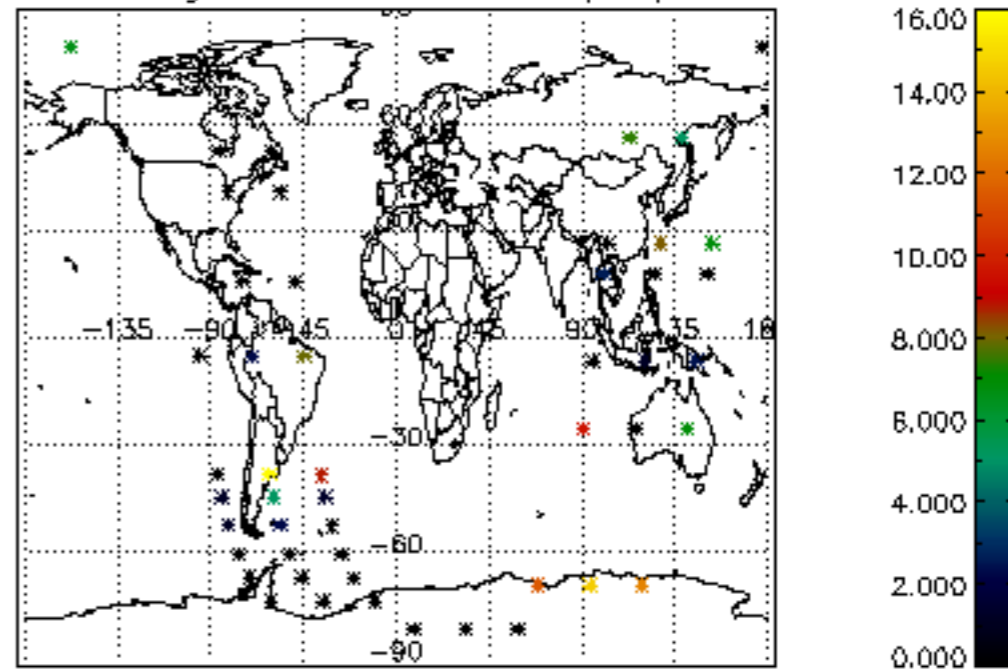
Percentage of datation errors per profile



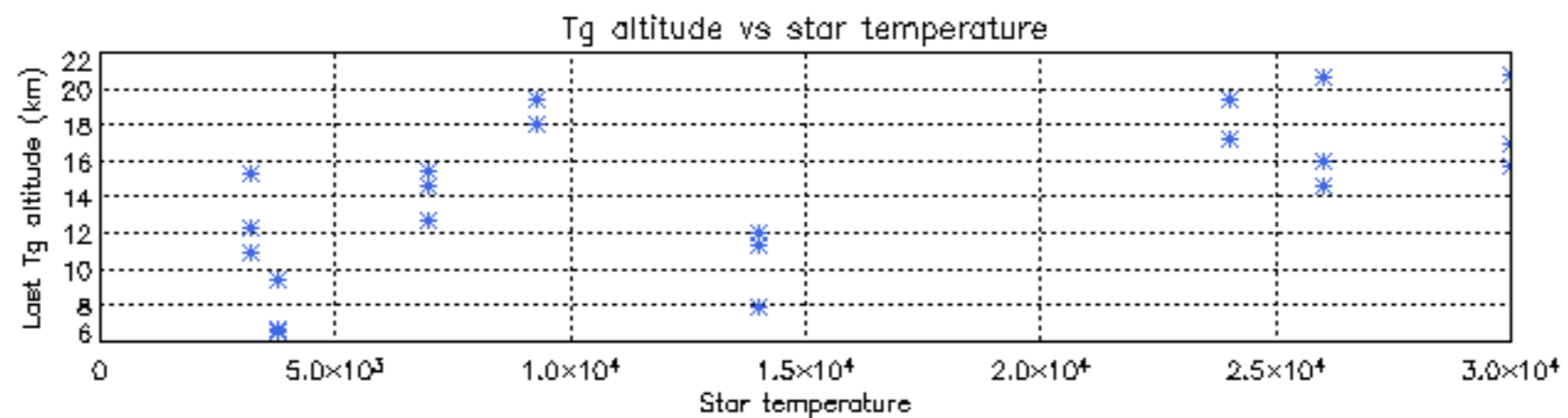
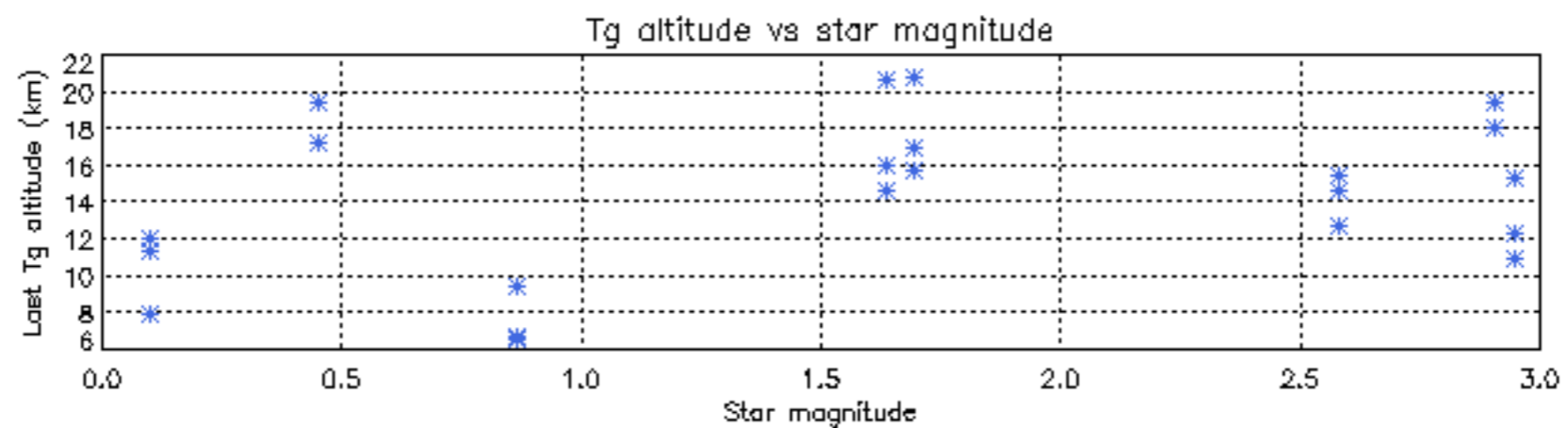
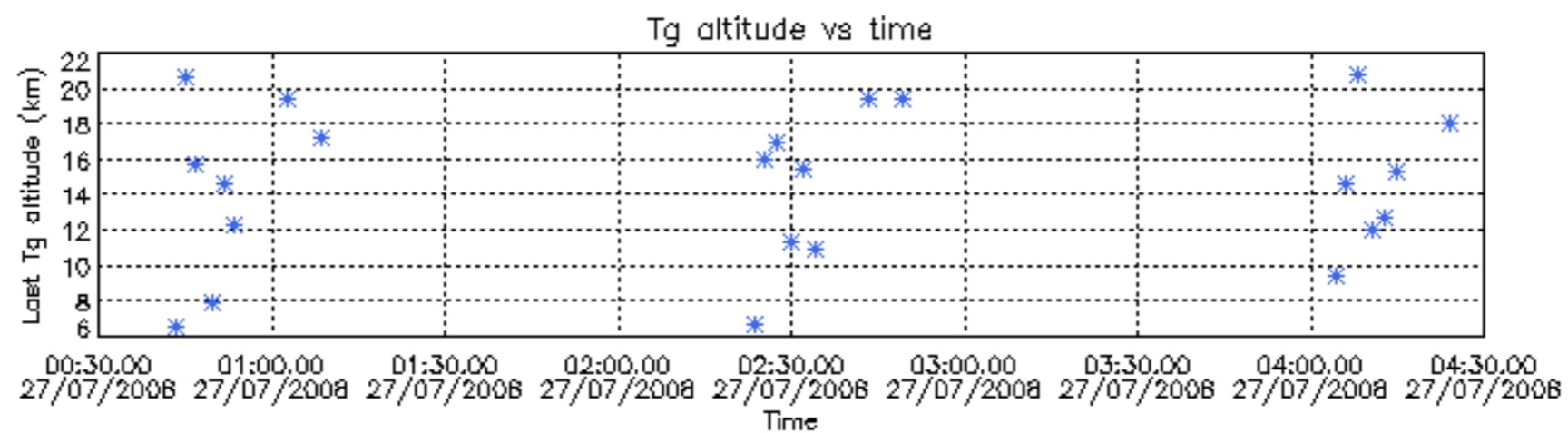
Percentage of star falling outside central band per profile



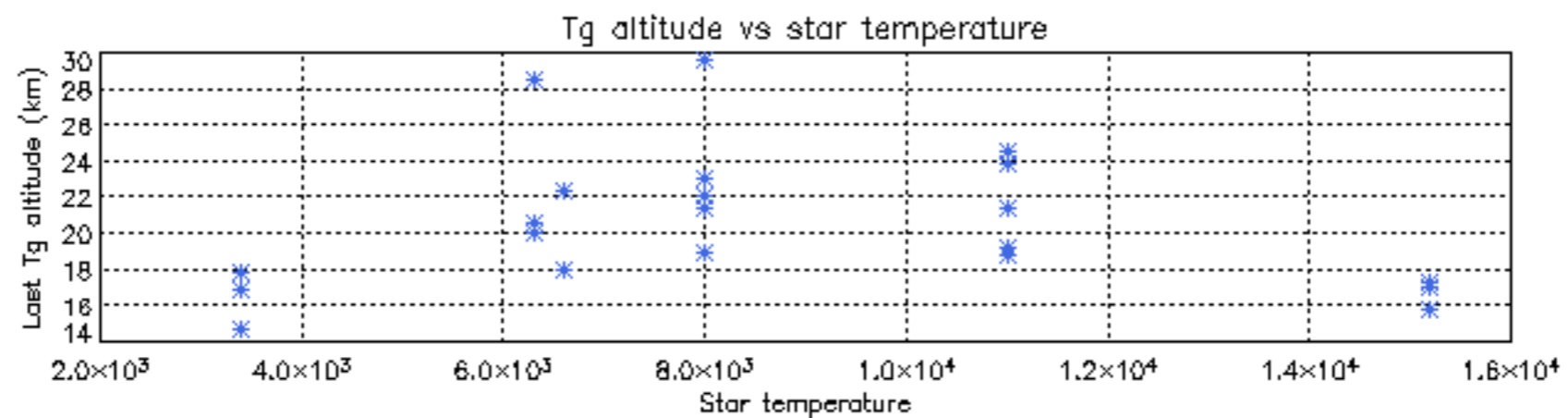
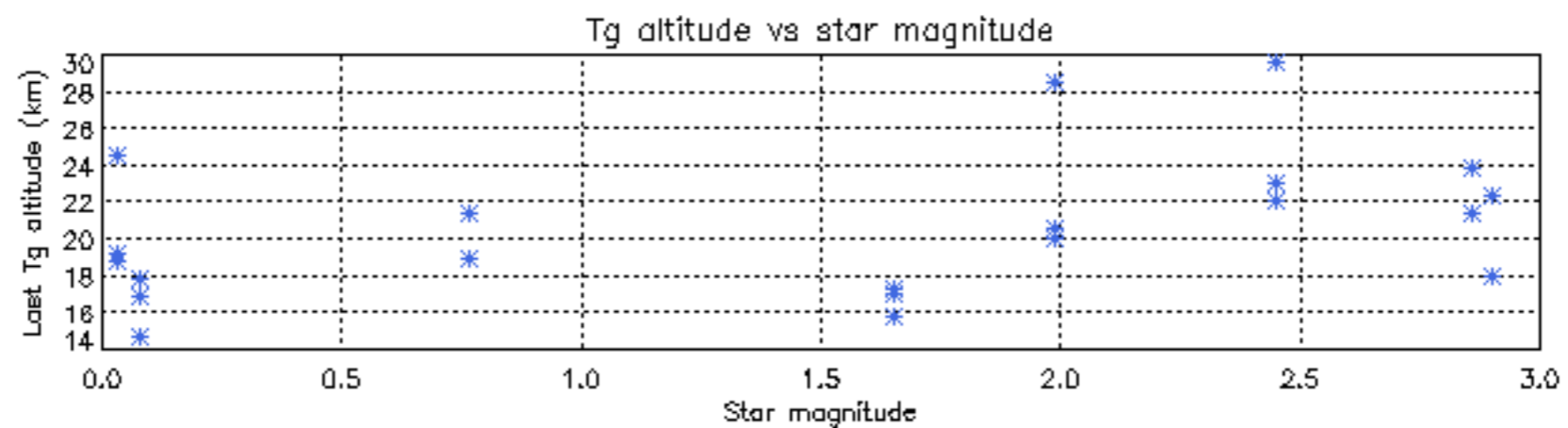
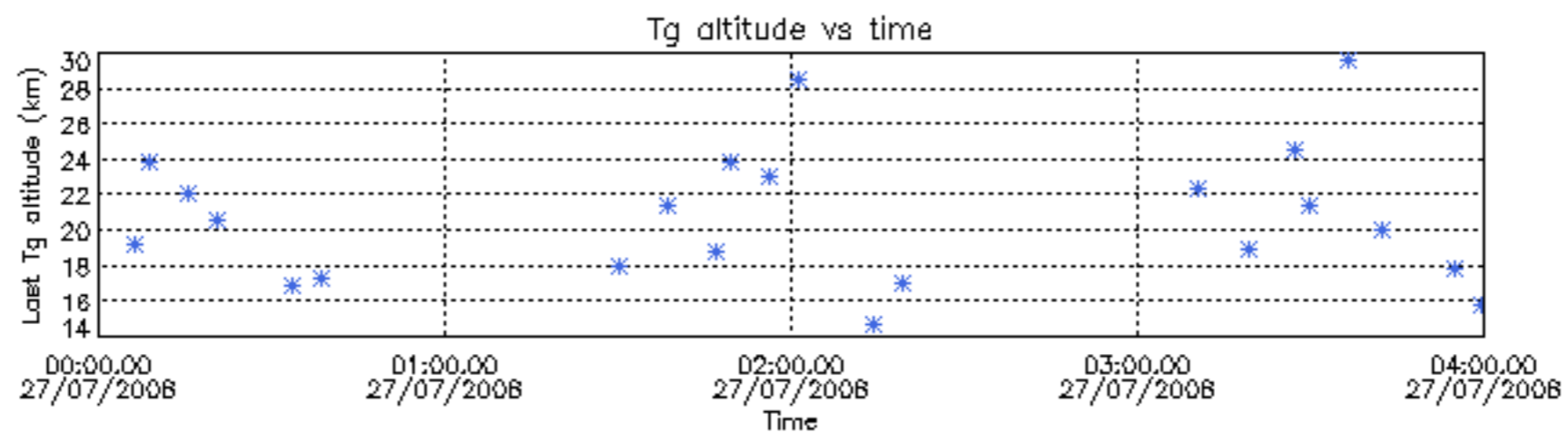
Percentage of saturation errors per profile

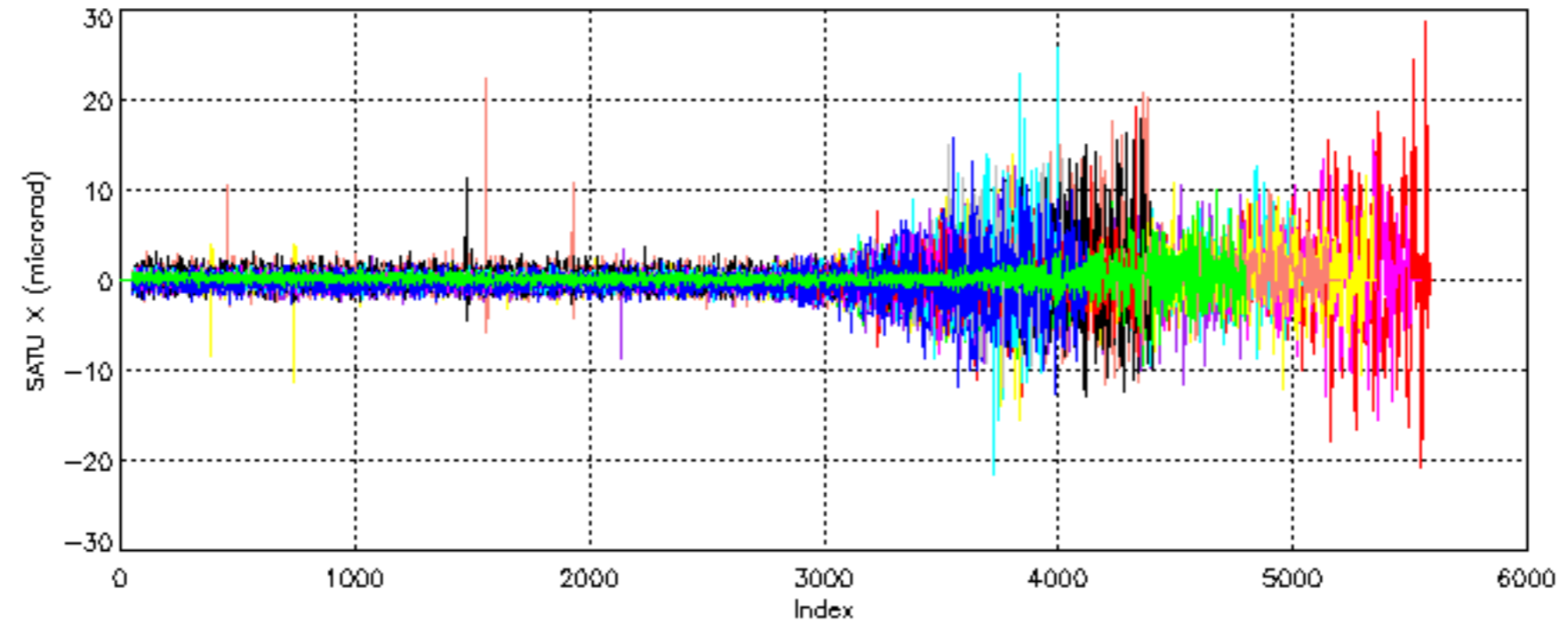


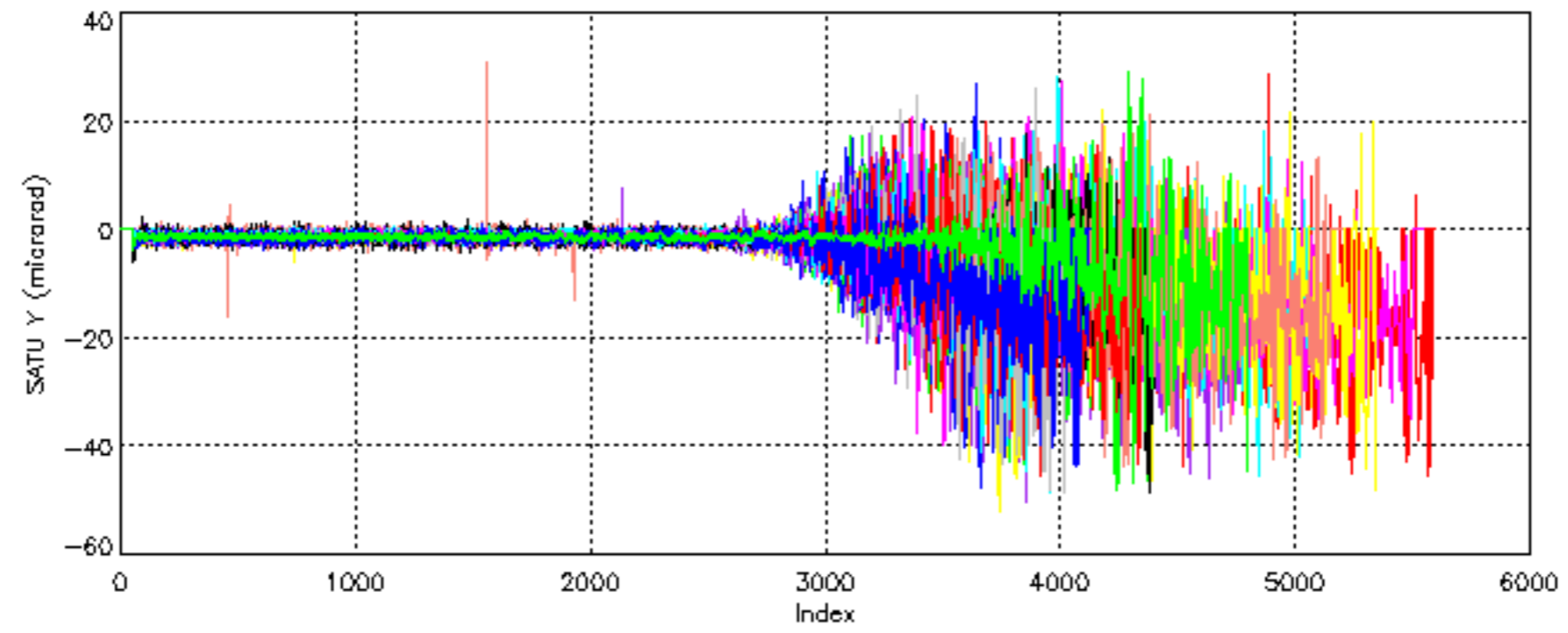
Tangent altitude at which the star is lost

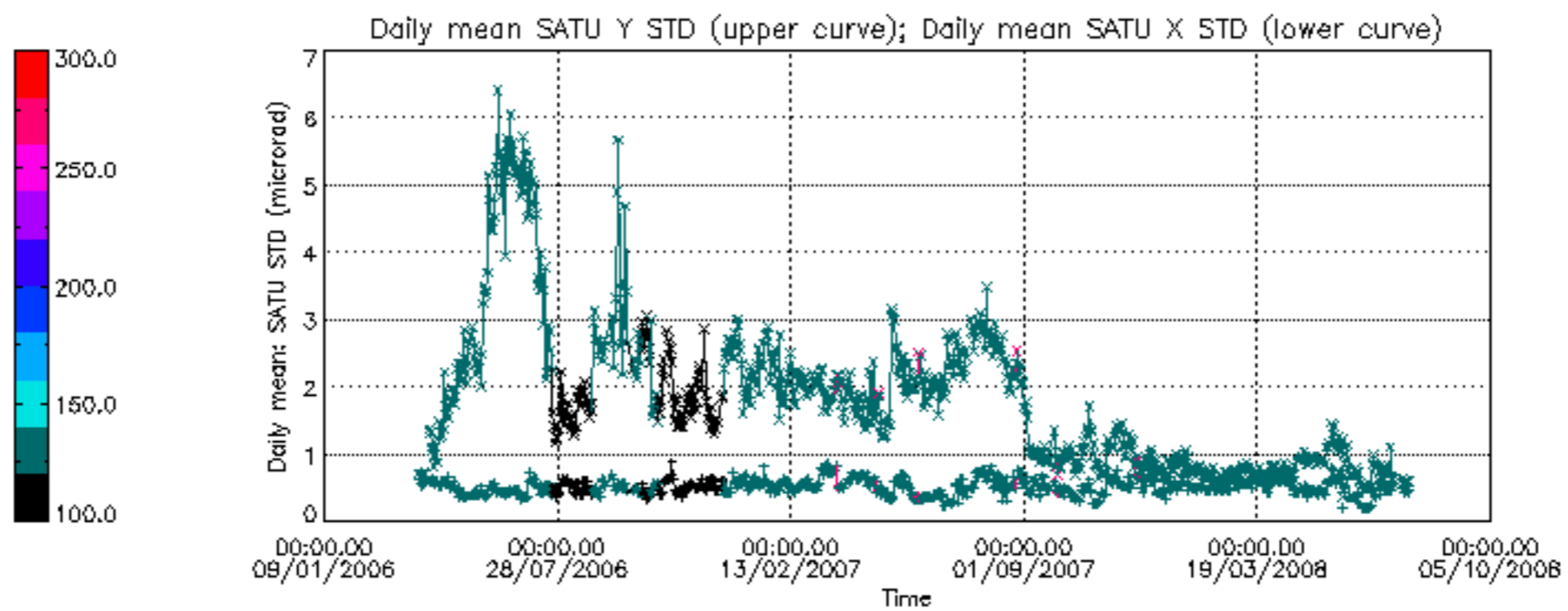


Tangent altitude at which the star is lost









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 9; 2286.4; 01-JUL-2008 20:25:24; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;33134
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 18; 4582.1; 01-JUL-2008 21:03:40; Dark ; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;33134
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 5; 494.6; 01-JUL-2008 23:16:44; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;33136
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 14; 2286.7; 01-JUL-2008 23:46:36; Bright; 33.5; 127; 27Bet Her ; 2.78; 4700;occ; 67; 0;33136
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 3; 1983.1; 01-JUL-2008 10:16:45; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;33128
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 5; 2286.2; 01-JUL-2008 10:21:49; Bright; 33.5; 127; 27Bet Her ; 2.78; 4700;occ; 67; 0;33128
 6; 2449.8; 01-JUL-2008 10:24:32; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;33128
 7; 2808.4; 01-JUL-2008 10:30:31; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;33128
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5; 2295.9; 05-JUL-2008 13:17:19; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;33187
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8; 2956.8; 05-JUL-2008 13:28:19; Bright; 33.5; 119; 14Eta Dra ; 2.73; 4700;occ; 67; 0;33187
9; 3202.3; 05-JUL-2008 13:32:25; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;33187
10; 3445.0; 05-JUL-2008 13:36:28; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;33187
11; 4304.4; 05-JUL-2008 13:50:47; Bright; 34.5; 149; 45Eps Per ; 2.89; 30000;occ; 69; 0;33187
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9; 2956.9; 05-JUL-2008 15:08:55; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;33188
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19; 7022.6; 05-JUL-2008 16:16:41; Dark ; 39.5; 141; Bet Ara ; 2.84; 4600;occ; 79; 0;33188
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4; 68.7; 05-JUL-2008 02:36:36; Dark ; 50.0; 9; Alp Eri ; 0.45; 24000;occ; 100; 0;33181

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7; 667.2; 23-JUL-2008 23:28:15; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;33451
8; 879.4; 23-JUL-2008 23:31:48; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;33451
9; 1393.5; 23-JUL-2008 23:40:22; Dark ; 46.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 93; 0;33451
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13; 2784.6; 24-JUL-2008 00:03:33; Bright; 34.0; 69; 33Gam Dra ; 2.23; 3800;occ; 68; 0;33451
14; 3442.5; 24-JUL-2008 00:14:31; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;33451
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 6; 4430.8; 23-JUL-2008 09:25:36; Bright; 38.5; 114; 3Iot Aur ; 2.69; 4600;occ; 77; 0;33442
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 17; 6699.2; 23-JUL-2008 10:03:24; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;33442
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 19; 7427.9; 23-JUL-2008 10:15:33; Dark ; 46.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 92; 0;33442
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13; 5661.4; 23-JUL-2008 14:47:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;33445
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6; 4197.2; 24-JUL-2008 10:30:41; Bright; 54.0; 6; 13Alp Aur ; 0.08; 3400;occ; 108; 0;33457
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11; 2712.4; 26-JUL-2008 22:27:30; Bright; 36.0; 144; 18Del Cyg ; 2.86; 11000;occ; 72; 0;33493
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13; 3442.0; 26-JUL-2008 22:39:39; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;33493
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12; 3122.1; 27-JUL-2008 00:14:55; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;33494
13; 3441.9; 27-JUL-2008 00:20:15; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;33494
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13; 5019.8; 30-JUL-2008 17:38:17; Dark ; 39.5; 30; 46Eps Ori ; 1.69; 30000;occ; 79; 0;33547
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17; 5998.2; 30-JUL-2008 17:54:35; Dark ; 45.5; 157; The1Eri ; 2.91; 9300;occ; 91; 0;33547
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6; 2656.4; 30-JUL-2008 18:39:29; Bright; 40.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 81; 0;33548
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18; 5999.2; 30-JUL-2008 19:35:12; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;33548
19; 6333.7; 30-JUL-2008 19:40:47; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;33548
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5; 913.8; 31-JUL-2008 00:52:50; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;33552

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19; 4906.4; 31-JUL-2008 01:59:23; Dark ; 42.0; 27; 24Gam Ori ; 1.64; 26000;occ; 84; 0;33552
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5; 300.5; 31-JUL-2008 02:23:13; Dark ; 49.0; 9; Alp Eri ; 0.45; 24000;occ; 98; 0;33553
6; 714.3; 31-JUL-2008 02:30:07; Dark ; 45.5; 148; Alp Tuc ; 2.88; 4100;occ; 91; 0;33553
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13; 2654.3; 31-JUL-2008 03:02:27; Bright; 41.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 82; 0;33553
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15; 1104.0; 31-JUL-2008 04:17:12; Dark ; 44.5; 172; Gam Gru ; 3.00; 13100;occ; 89; 0;33554
16; 2060.1; 31-JUL-2008 04:33:09; Bright; 38.0; 11; 53Alp Aql ; 0.76; 8000;occ; 76; 0;33554
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12; 301.9; 31-JUL-2008 05:44:26; Dark ; 53.0; 9; Alp Eri ; 0.45; 24000;occ; 106; 0;33555
13; 715.2; 31-JUL-2008 05:51:20; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;33555

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19; 2653.6; 31-JUL-2008 06:23:38; Bright; 39.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 79; 0;33555
20; 3094.4; 31-JUL-2008 06:30:59; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;33555
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16; 4346.7; 31-JUL-2008 23:37:50; Bright; 35.5; 107; 37The Aur ; 2.65; 11000;occ; 71; 0;33565
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