

GOMOS Daily Report 07-JUL-2007

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	09JUL2007 10:40:46
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (07JUL2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (08JUL2007 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)

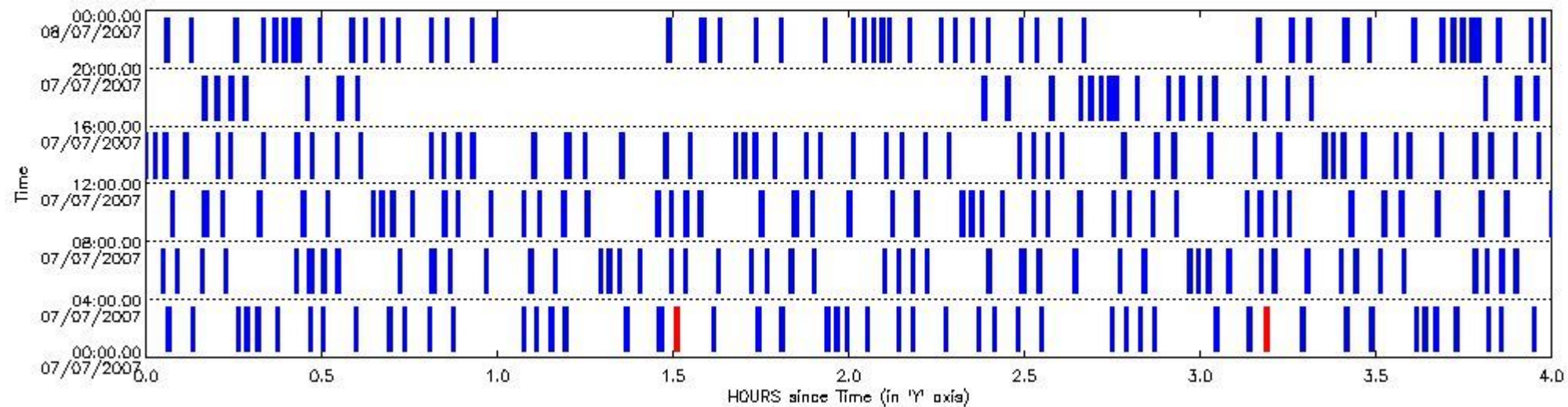
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

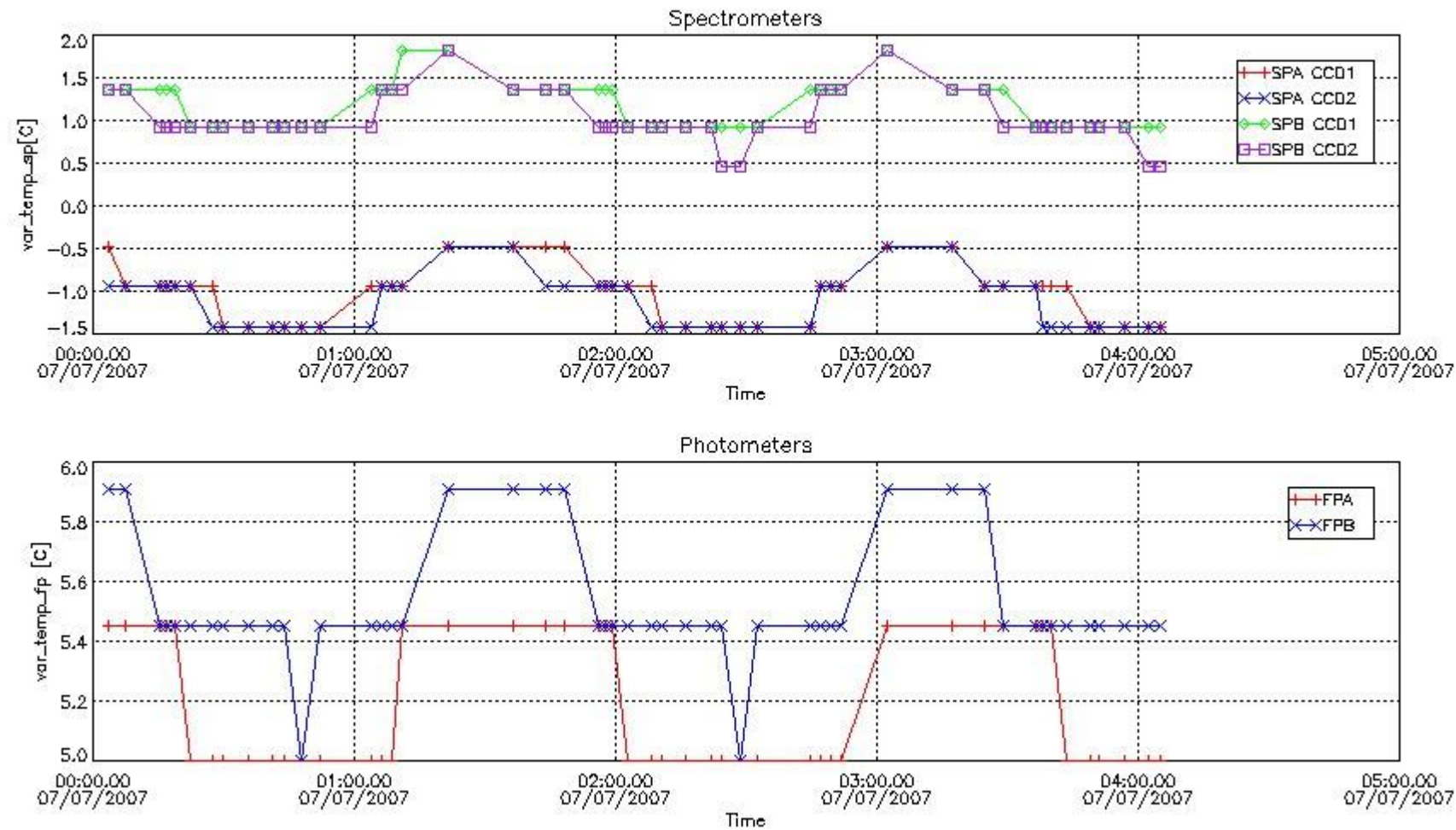
UTC start time	Star name	Star ID	Orbit
07-JUL-2007 01:30:10	The1Eri	157	27969
07-JUL-2007 03:10:46	The1Eri	157	27970

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_1PNPDE20070707_000326_000000412059_00360_27969_4745.N1	07-JUL-2007 00:03:26	Straylight	41.000	148	Alp Tuc	2.8780	4100.0	82	27969	No
2	GOM_TRA_1PNPDE20070707_000738_000000412059_00360_27969_4746.N1	07-JUL-2007 00:07:38	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	27969	No
3	GOM_TRA_1PNPDE20070707_001524_000000392059_00360_27969_4747.N1	07-JUL-2007 00:15:24	Twilight_and_stray	38.500	85	Kap Sco	2.4070	28000.	77	27969	No
4	GOM_TRA_1PNPDE20070707_001652_000000442059_00360_27969_4748.N1	07-JUL-2007 00:16:52	Twilight_and_stray	43.500	103	38Zet Sgr	2.6000	9700.0	87	27969	No
5	GOM_TRA_1PNPDE20070707_001839_000000522059_00360_27969_4749.N1	07-JUL-2007 00:18:39	Bright	51.500	137	22Lam Sgr	2.8240	4400.0	103	27969	No
6	GOM_TRA_1PNPDE20070707_002211_000000372059_00360_27969_4750.N1	07-JUL-2007 00:22:11	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	27969	No
7	GOM_TRA_1PNPDE20070707_002738_000000362059_00360_27969_4751.N1	07-JUL-2007 00:27:38	Bright	36.000	126	60Bet Oph	2.7700	4250.0	72	27969	No
8	GOM_TRA_1PNPDE20070707_002956_000000352059_00360_27969_4752.N1	07-JUL-2007 00:29:56	Bright	35.000	59	55Alp Oph	2.0800	8900.0	70	27969	No
9	GOM_TRA_1PNPDE20070707_003532_000000342059_00360_27969_4753.N1	07-JUL-2007 00:35:32	Bright	33.500	133	40Zet Her	2.8070	6000.0	67	27969	No

10	GOM_TRA_1PNPDE20070707_004115_000000352059_00360_27969_4754.N1	07-JUL-2007 00:41:15	Bright	34.500	130	23Bet Dra	2.7990	5800.0	69	27969	No
11	GOM_TRA_1PNPDE20070707_004353_000000362059_00360_27969_4755.N1	07-JUL-2007 00:43:53	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	27969	No
12	GOM_TRA_1PNPDE20070707_004759_000000362059_00360_27969_4756.N1	07-JUL-2007 00:47:59	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	27969	No
13	GOM_TRA_1PNPDE20070707_005200_000000362059_00360_27969_4757.N1	07-JUL-2007 00:52:00	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	27969	No
14	GOM_TRA_1PNPDE20070707_010403_000000352059_00360_27969_4758.N1	07-JUL-2007 01:04:03	Bright	34.500	175	39Del Per	3.0100	19400.	69	27969	No
15	GOM_TRA_1PNPDE20070707_010620_000000352059_00360_27969_4759.N1	07-JUL-2007 01:06:20	Bright	35.000	149	45Eps Per	2.8880	30000.	70	27969	No
16	GOM_TRA_1PNPDE20070707_010847_000000412059_00360_27969_4760.N1	07-JUL-2007 01:08:47	Bright	41.000	150	44Zet Per	2.8900	28000.	82	27969	No
17	GOM_TRA_1PNPDE20070707_011110_000000402059_00360_27969_4761.N1	07-JUL-2007 01:11:10	Twilight	39.500	146	25Eta Tau	2.8730	15200.	79	27969	No
18	GOM_TRA_1PNPDE20070707_012141_000000402059_00360_27969_4896.N1	07-JUL-2007 01:21:41	Dark	40.000	165	34Gam Eri	2.9500	3200.0	80	27969	No
19	GOM_TRA_1PNPDE20070707_013629_000000462059_00361_27970_4897.N1	07-JUL-2007 01:36:29	Dark	46.000	9	Alp Eri	0.45300	24000.	92	27970	No
20	GOM_TRA_1PNPDE20070707_014402_000000512059_00361_27970_4898.N1	07-JUL-2007 01:44:02	Straylight	51.000	148	Alp Tuc	2.8780	4100.0	102	27970	No
21	GOM_TRA_1PNPDE20070707_014814_000000392059_00361_27970_4899.N1	07-JUL-2007 01:48:14	Straylight	39.000	45	Alp Pav	1.9400	26000.	78	27970	No
22	GOM_TRA_1PNPDE20070707_015600_000000392059_00361_27970_4900.N1	07-JUL-2007 01:56:00	Tw_i_and_stray	39.000	85	Kap Sco	2.4070	28000.	78	27970	No
23	GOM_TRA_1PNPDE20070707_015728_000000452059_00361_27970_4901.N1	07-JUL-2007 01:57:28	Tw_i_and_stray	44.500	103	38Zet Sgr	2.6000	9700.0	89	27970	No
24	GOM_TRA_1PNPDE20070707_015915_000000402059_00361_27970_4902.N1	07-JUL-2007 01:59:15	Bright	39.500	137	22Lam Sgr	2.8240	4400.0	79	27970	No
25	GOM_TRA_1PNPDE20070707_020247_000000372059_00361_27970_4903.N1	07-JUL-2007 02:02:47	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	27970	No
26	GOM_TRA_1PNPDE20070707_020814_000000362059_00361_27970_4904.N1	07-JUL-2007 02:08:14	Bright	35.500	126	60Bet Oph	2.7700	4250.0	71	27970	No
27	GOM_TRA_1PNPDE20070707_021032_000000372059_00361_27970_4905.N1	07-JUL-2007 02:10:32	Bright	36.500	59	55Alp Oph	2.0800	8900.0	73	27970	No
28	GOM_TRA_1PNPDE20070707_021608_000000372059_00361_27970_4906.N1	07-JUL-2007 02:16:08	Bright	36.500	133	40Zet Her	2.8070	6000.0	73	27970	No
29	GOM_TRA_1PNPDE20070707_022150_000000372059_00361_27970_4907.N1	07-JUL-2007 02:21:50	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	27970	No
30	GOM_TRA_1PNPDE20070707_022429_000000362059_00361_27970_4908.N1	07-JUL-2007 02:24:29	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	27970	No
31	GOM_TRA_1PNPDE20070707_022835_000000332059_00361_27970_4909.N1	07-JUL-2007 02:28:35	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	27970	No
32	GOM_TRA_1PNPDE20070707_023236_000000352059_00361_27970_4910.N1	07-JUL-2007 02:32:36	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	27970	No
33	GOM_TRA_1PNPDE20070707_024439_000000372059_00361_27970_5057.N1	07-JUL-2007 02:44:39	Bright	37.000	175	39Del Per	3.0100	19400.	74	27970	No
34	GOM_TRA_1PNPDE20070707_024656_000000362059_00361_27970_5058.N1	07-JUL-2007 02:46:56	Bright	35.500	149	45Eps Per	2.8880	30000.	71	27970	No
35	GOM_TRA_1PNPDE20070707_024923_000000402059_00361_27970_5059.N1	07-JUL-2007 02:49:23	Bright	40.000	150	44Zet Per	2.8900	28000.	80	27970	No
36	GOM_TRA_1PNPDE20070707_025146_000000412059_00361_27970_5060.N1	07-JUL-2007 02:51:46	Twilight	40.500	146	25Eta Tau	2.8730	15200.	81	27970	No
37	GOM_TRA_1PNPDE20070707_030217_000000432059_00361_27970_5061.N1	07-JUL-2007 03:02:17	Dark	42.500	165	34Gam Eri	2.9500	3200.0	85	27970	No
38	GOM_TRA_1PNPDE20070707_031705_000000452059_00362_27971_5062.N1	07-JUL-2007 03:17:05	Dark	45.000	9	Alp Eri	0.45300	24000.	90	27971	No
39	GOM_TRA_1PNPDE20070707_032439_000000442059_00362_27971_5063.N1	07-JUL-2007 03:24:39	Straylight	43.500	148	Alp Tuc	2.8780	4100.0	87	27971	No
40	GOM_TRA_1PNPDE20070707_032851_000000422059_00362_27971_5064.N1	07-JUL-2007 03:28:51	Straylight	42.000	45	Alp Pav	1.9400	26000.	84	27971	No
41	GOM_TRA_1PNPDE20070707_033636_000000402059_00362_27971_5065.N1	07-JUL-2007 03:36:36	Tw_i_and_stray	39.500	85	Kap Sco	2.4070	28000.	79	27971	No
42	GOM_TRA_1PNPDE20070707_033805_000000452059_00362_27971_5066.N1	07-JUL-2007 03:38:05	Tw_i_and_stray	45.000	103	38Zet Sgr	2.6000	9700.0	90	27971	No
43	GOM_TRA_1PNPDE20070707_033952_000000472059_00362_27971_5067.N1	07-JUL-2007 03:39:52	Bright	46.500	137	22Lam Sgr	2.8240	4400.0	93	27971	No
44	GOM_TRA_1PNPDE20070707_034323_000000372059_00362_27971_5068.N1	07-JUL-2007 03:43:23	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	27971	No
45	GOM_TRA_1PNPDE20070707_034850_000000362059_00362_27971_5069.N1	07-JUL-2007 03:48:50	Bright	36.000	126	60Bet Oph	2.7700	4250.0	72	27971	No
46	GOM_TRA_1PNPDE20070707_035108_000000362059_00362_27971_5070.N1	07-JUL-2007 03:51:08	Bright	36.000	59	55Alp Oph	2.0800	8900.0	72	27971	No
47	GOM_TRA_1PNPDE20070707_035644_000000352059_00362_27971_5071.N1	07-JUL-2007 03:56:44	Bright	35.000	133	40Zet Her	2.8070	6000.0	70	27971	No
48	GOM_TRA_1PNPDE20070707_040226_000000362059_00362_27971_5072.N1	07-JUL-2007 04:02:26	Bright	36.000	130	23Bet Dra	2.7990	5800.0	72	27971	No
49	GOM_TRA_1PNPDE20070707_040505_000000332059_00362_27971_5073.N1	07-JUL-2007 04:05:05	Bright	33.000	119	14Eta Dra	2.7270	4700.0	66	27971	No

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



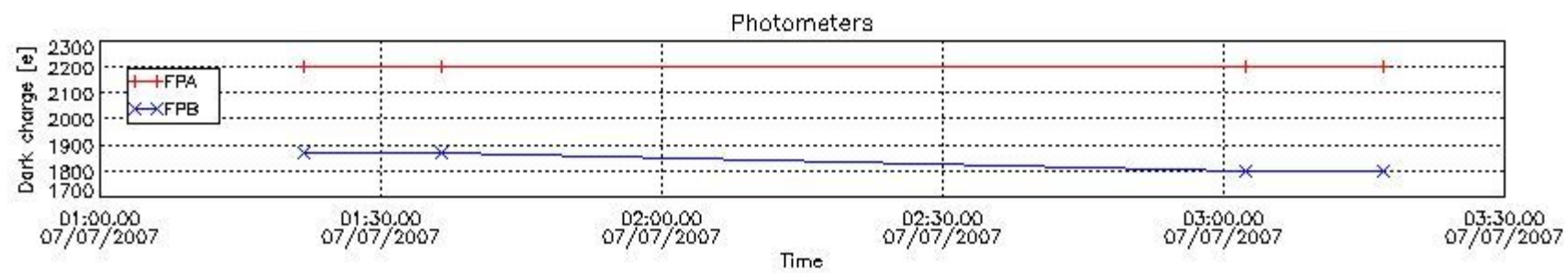
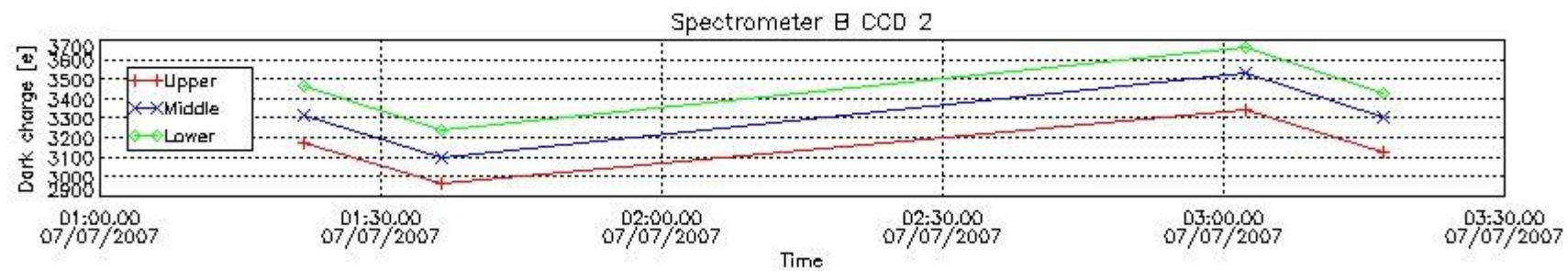
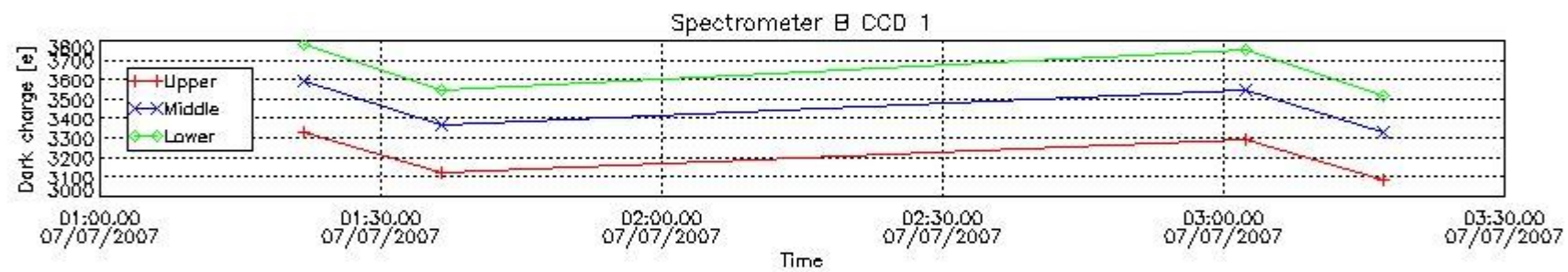
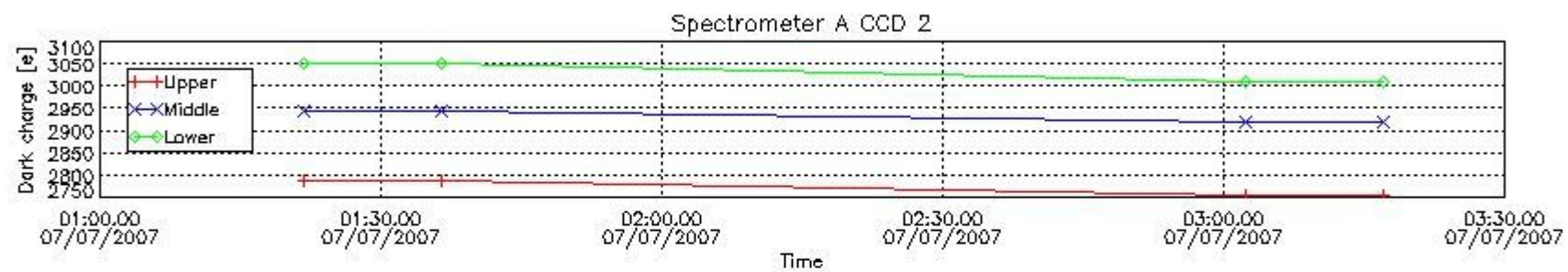
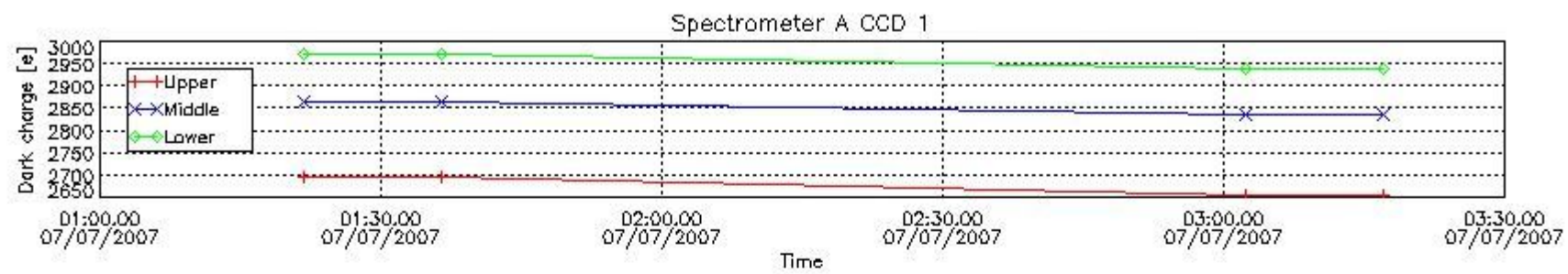
4. Overview of dark signal processing per product

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



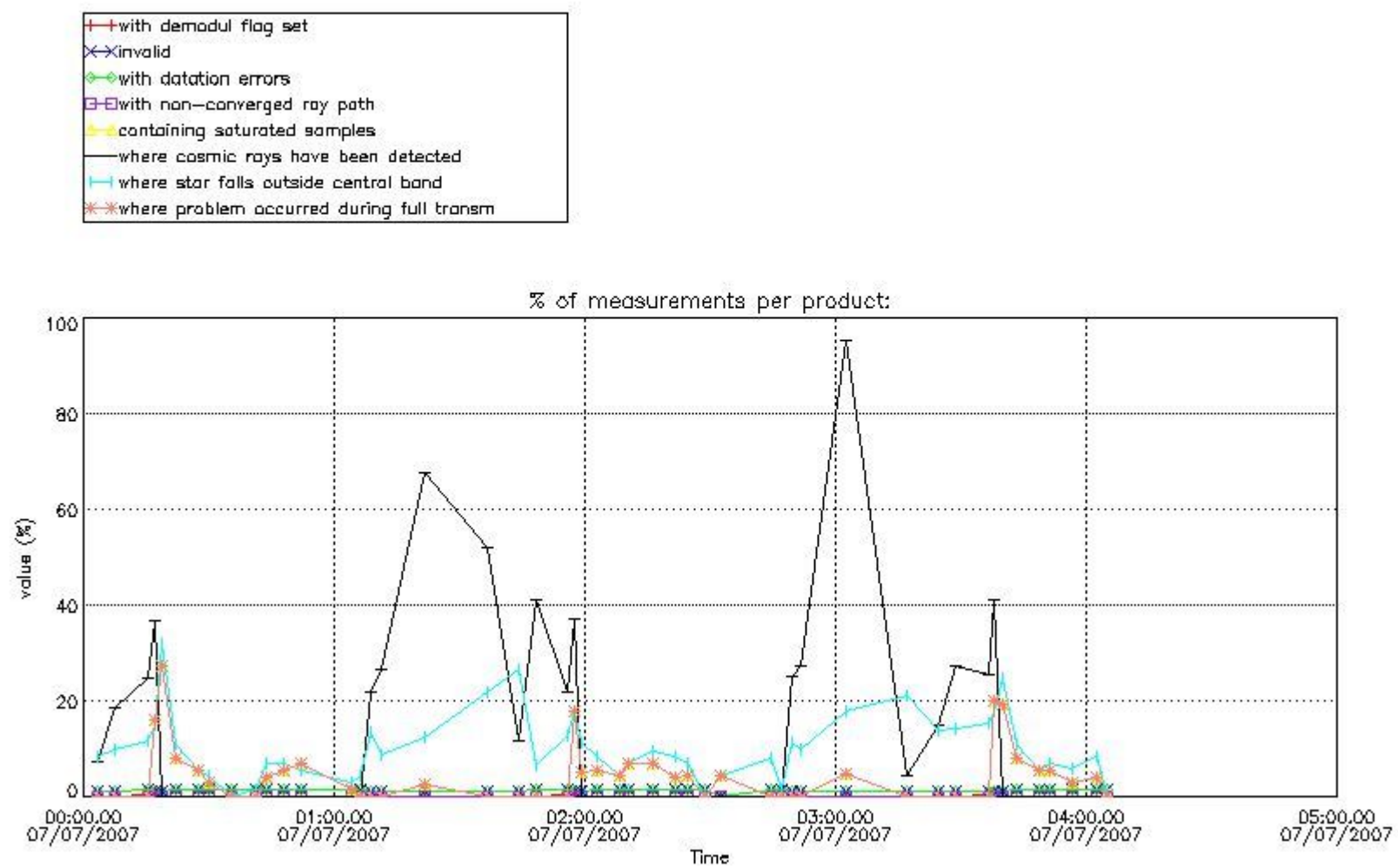
5. Demodulation flag and quality information monitoring

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.

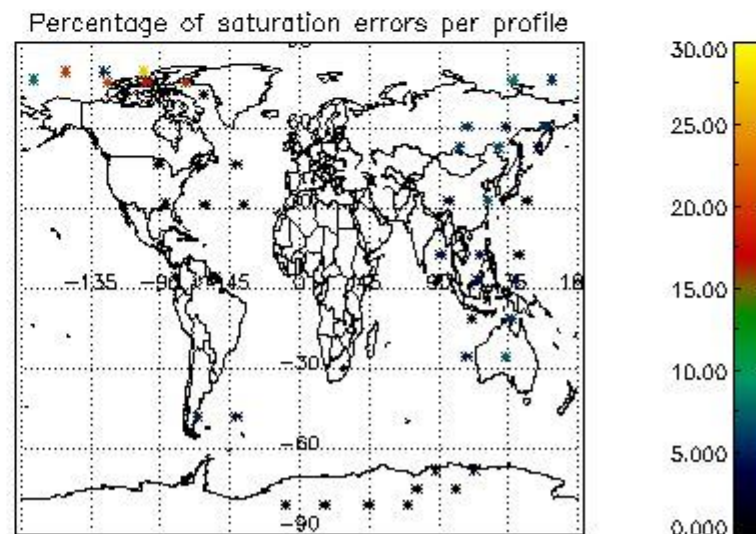
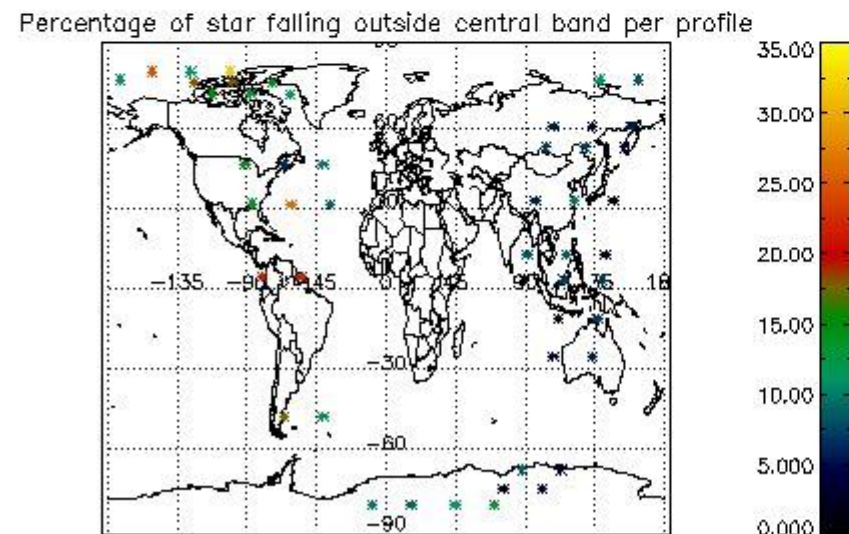
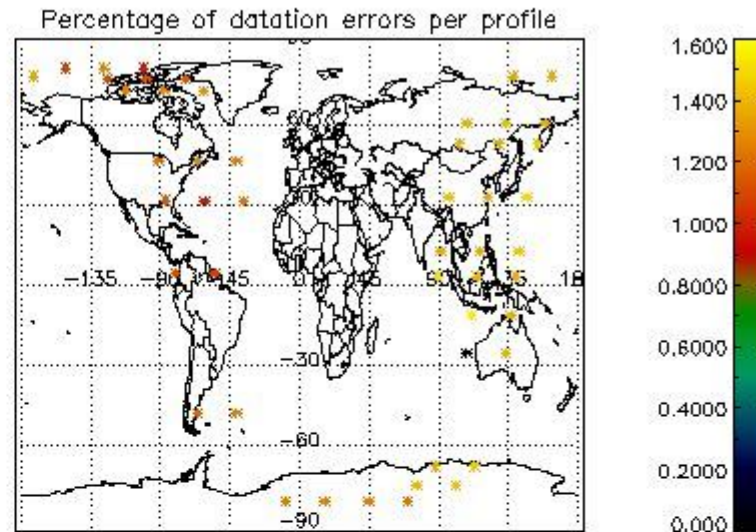
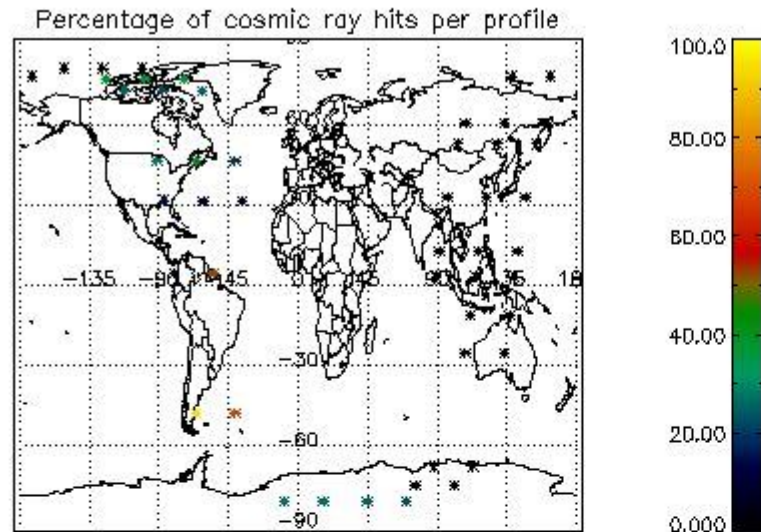
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	22.4490 %
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)



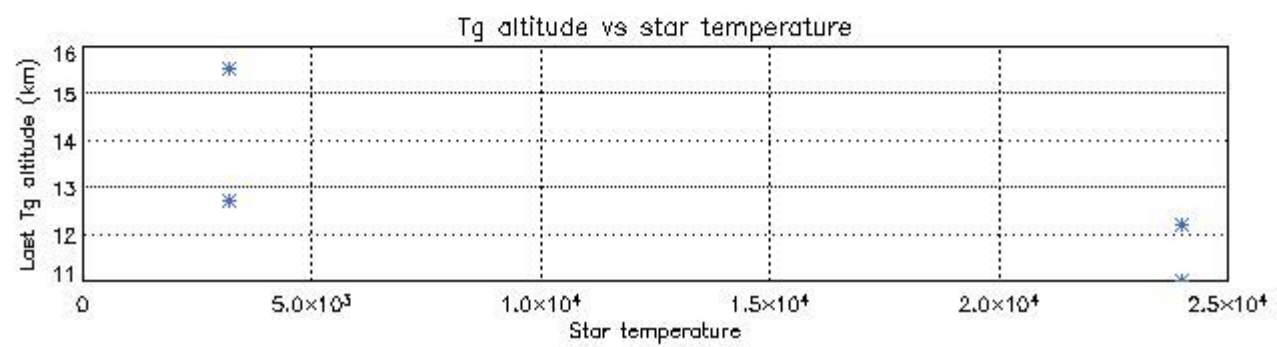
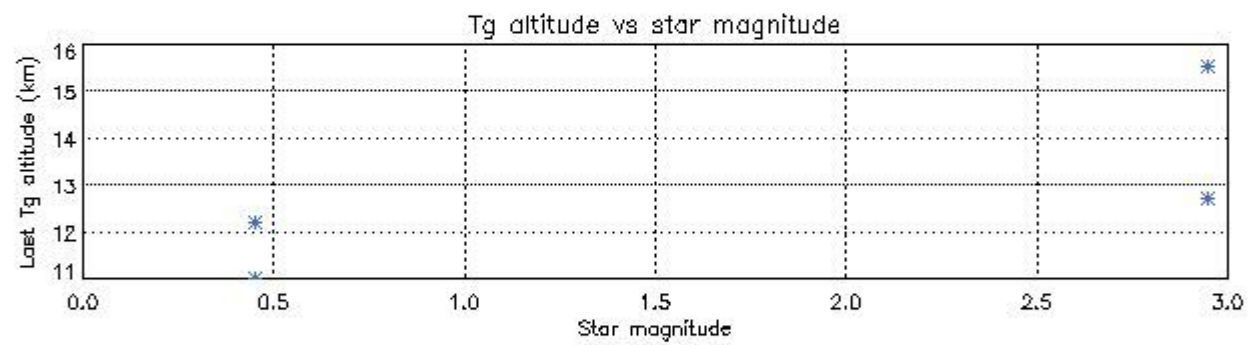
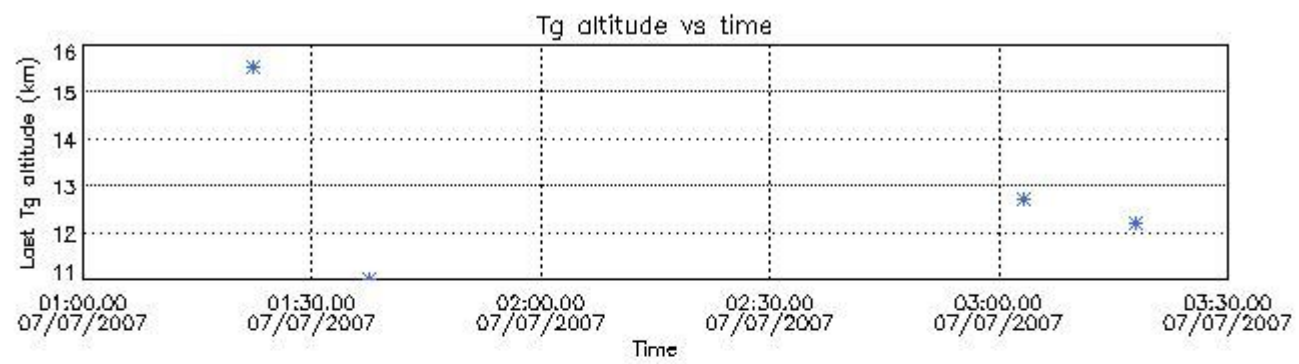
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.857	20.625	16.918
St. deviation:	1.9090	4.6254	0.88613
Maximum:	15.509	28.613	17.545
Minimum:	11.004	5.7209	16.292
Number of data:	4.0000	31.000	2.0000

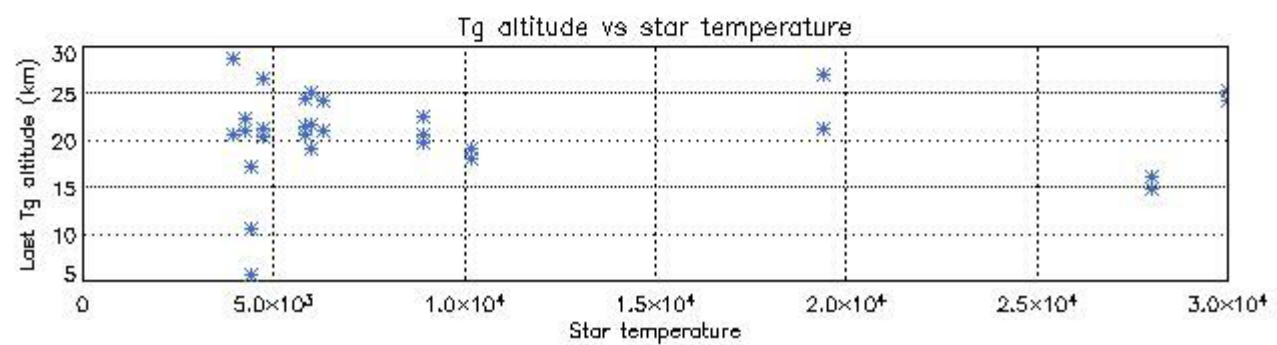
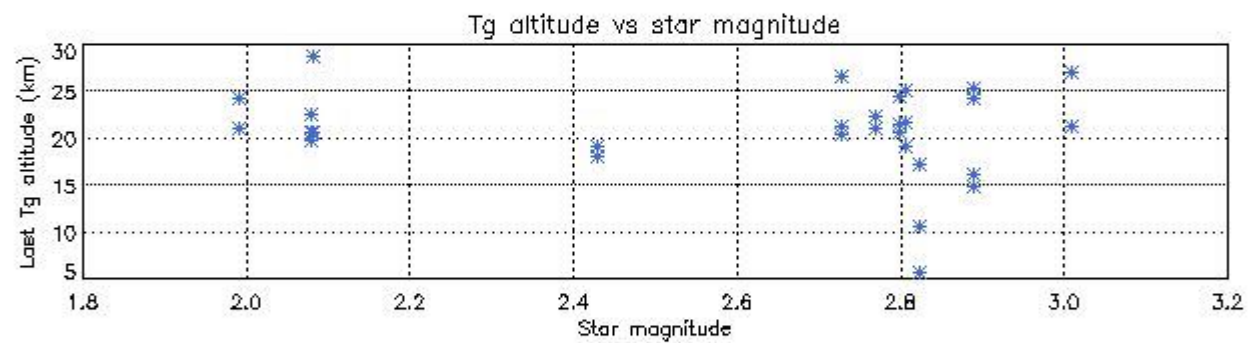
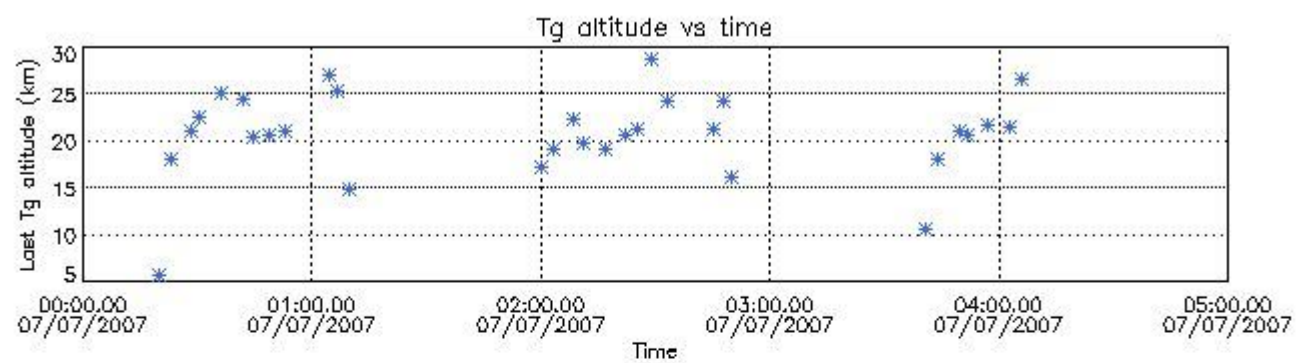
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



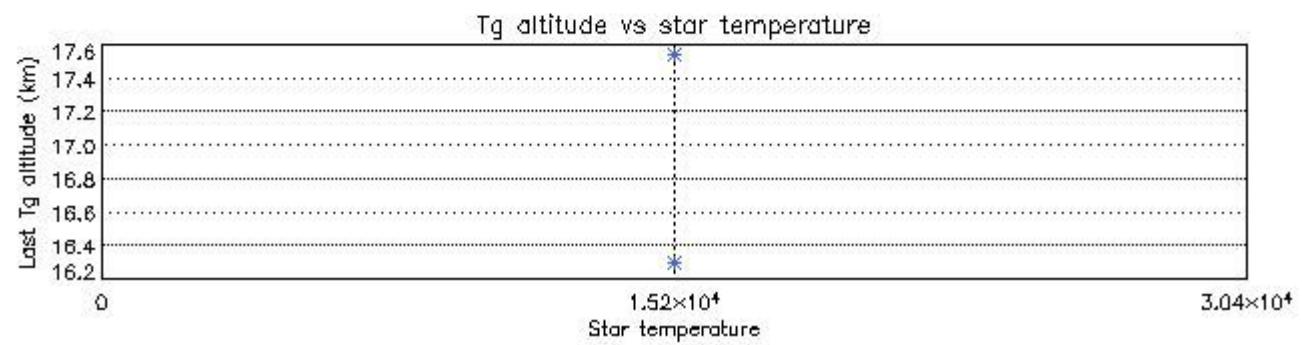
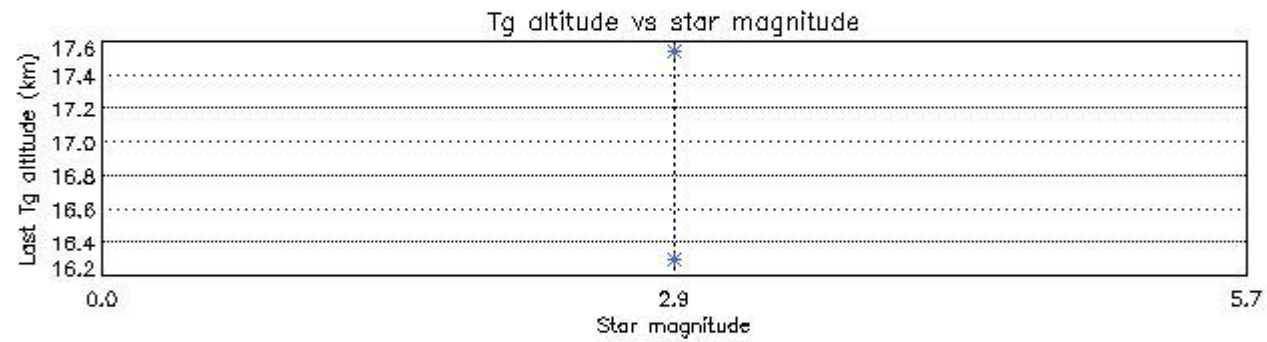
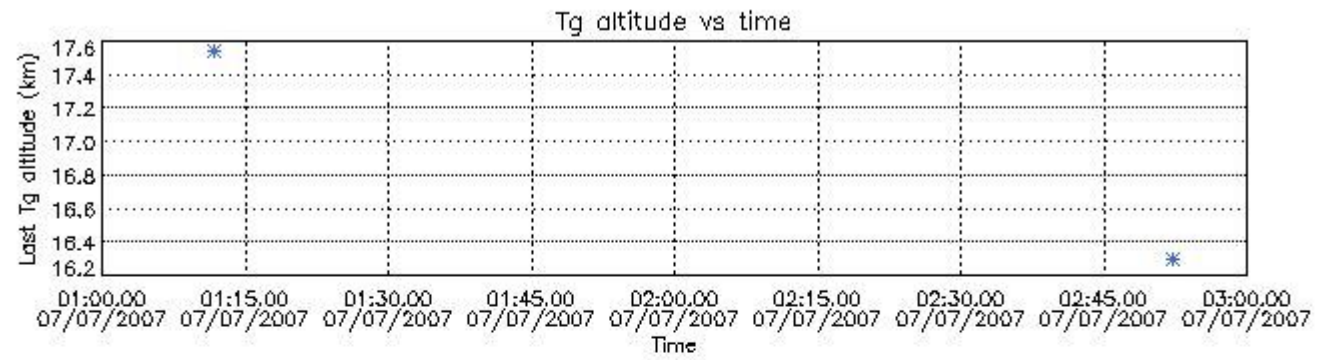
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

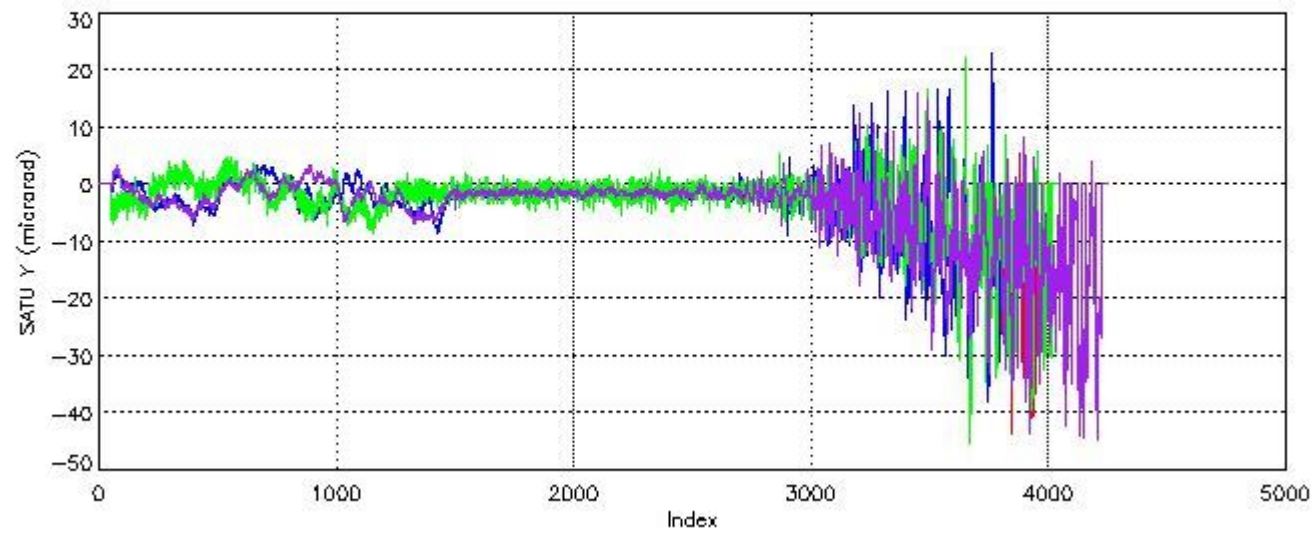
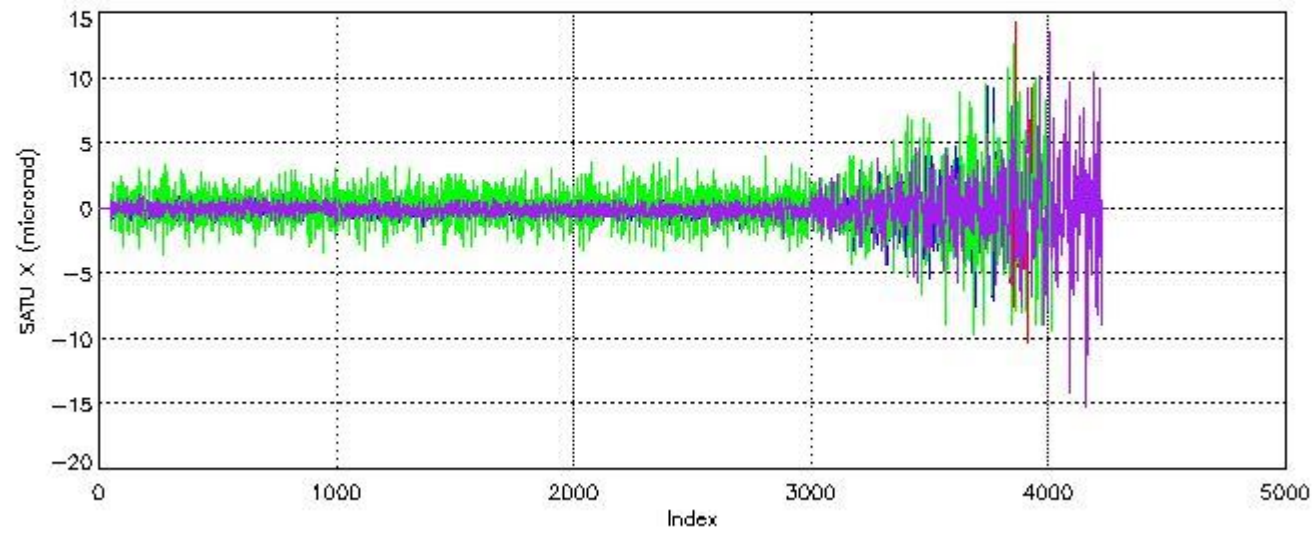


7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.043946	-1.2218	0.10271	-1.0866
St. deviation:	0.27832	2.3210	0.83195	2.3981
Maximum:	1.2000	5.8000	5.7000	6.8000
Minimum:	-1.2000	-7.2000	-4.7000	-11.300

Number of data:	3700.0	3700.0	25650.	25650.
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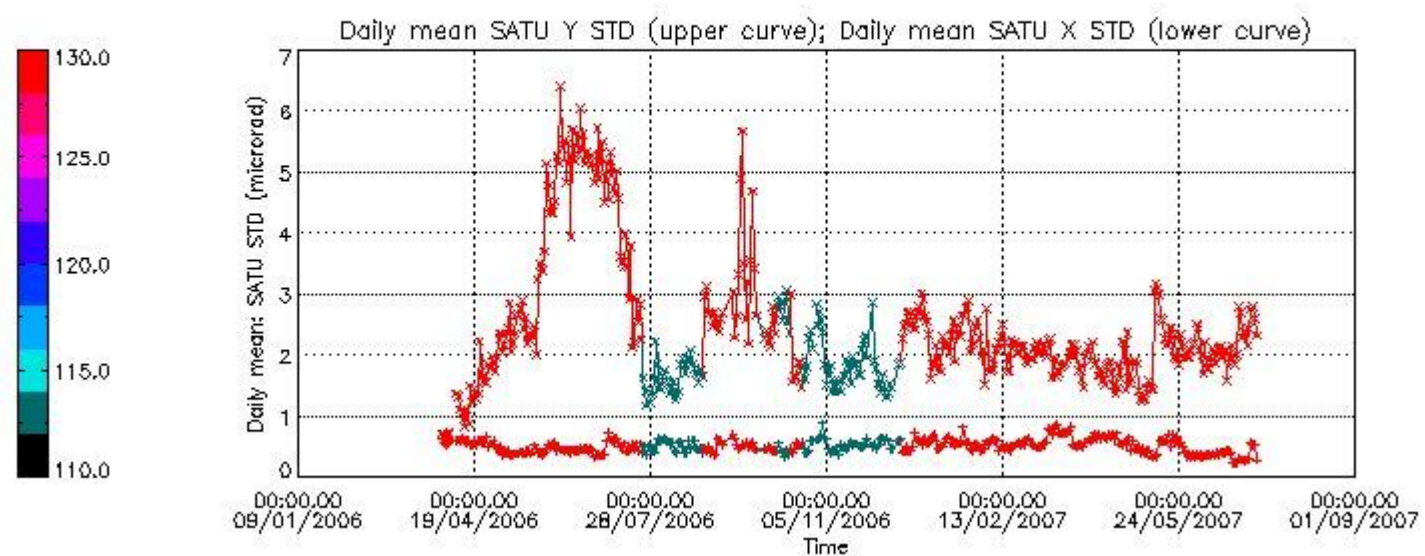
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

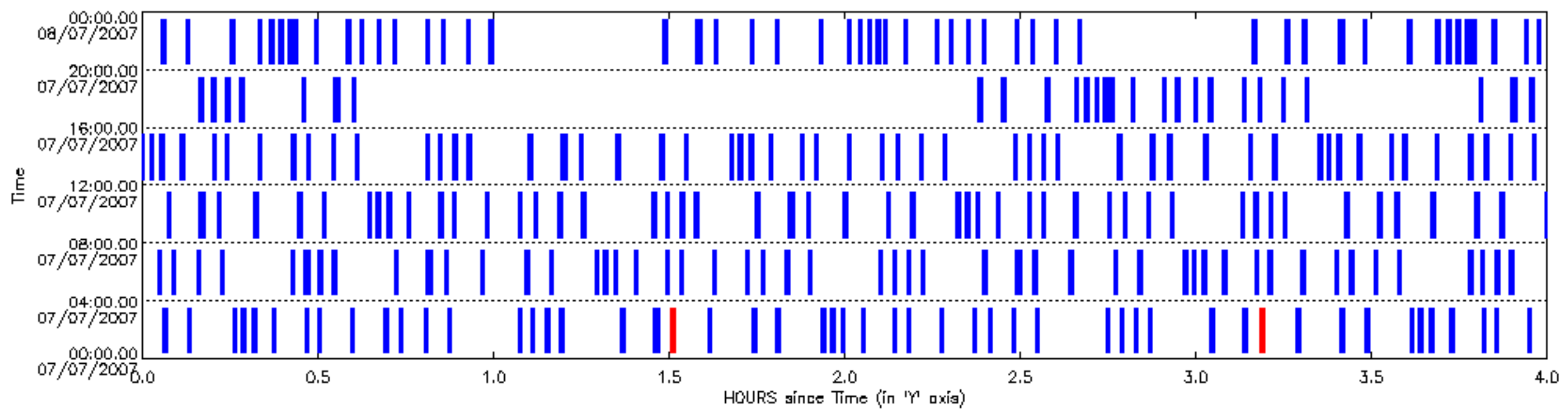
Lower curve: STD of SATU X axis

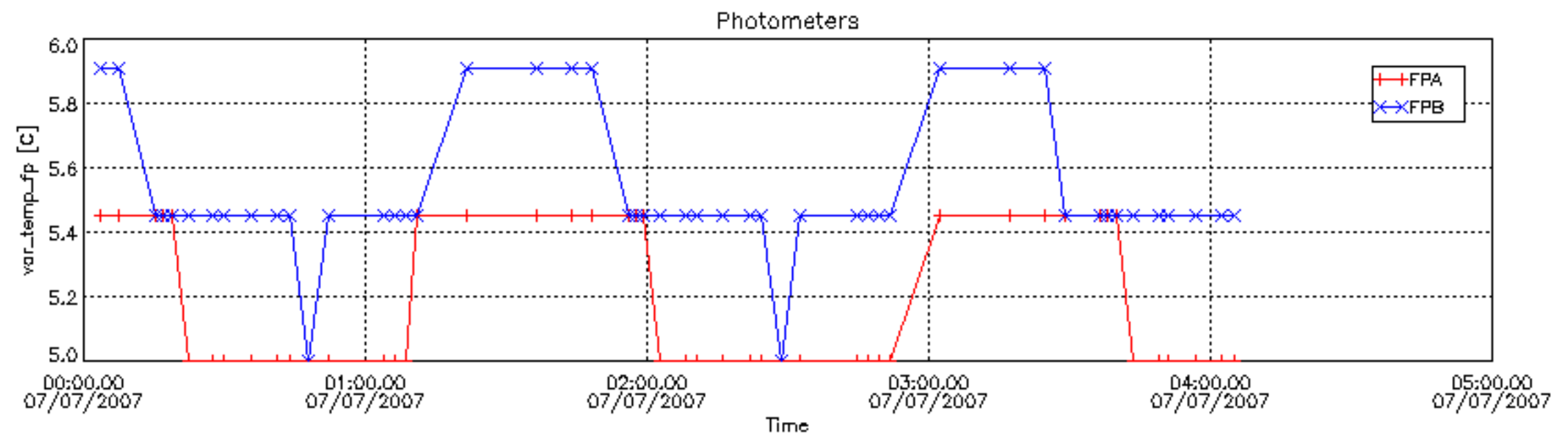
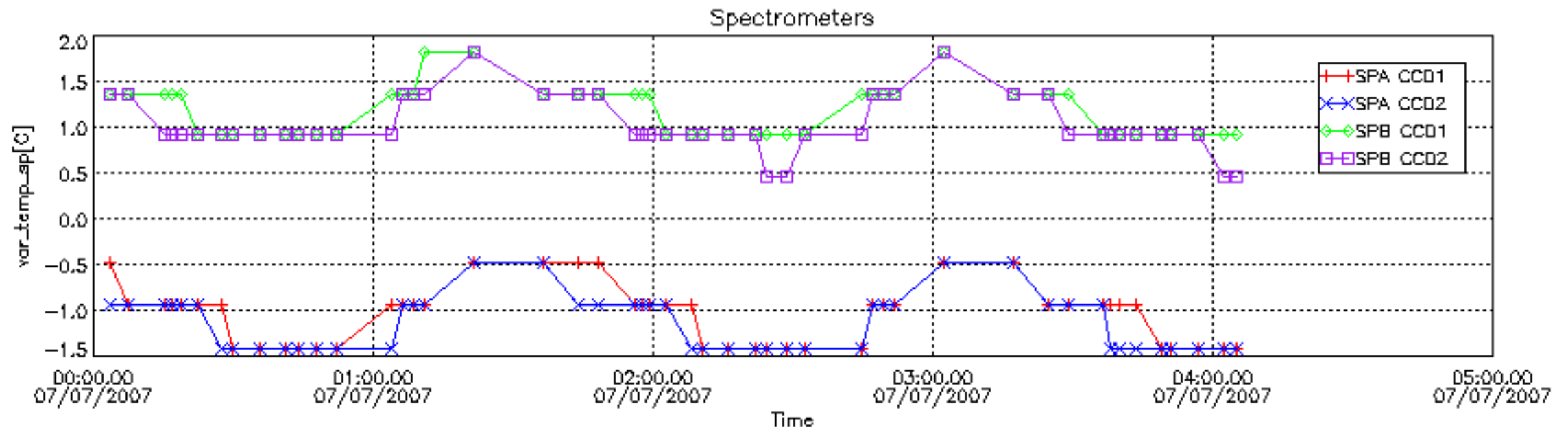


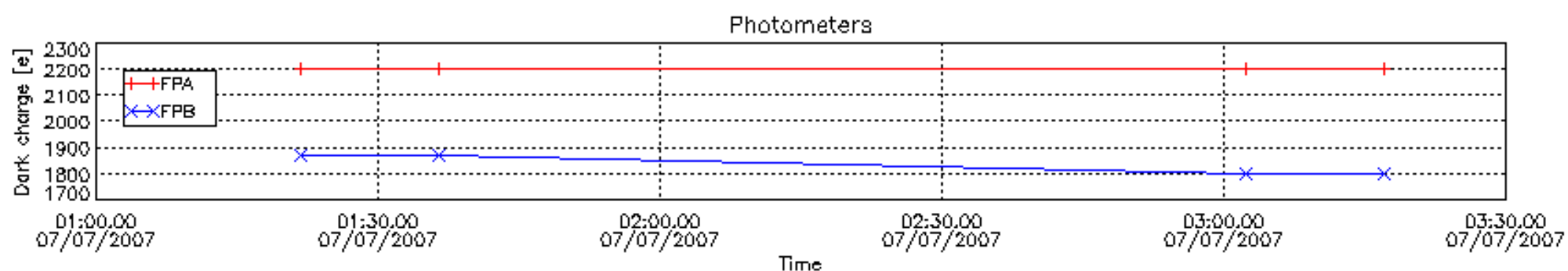
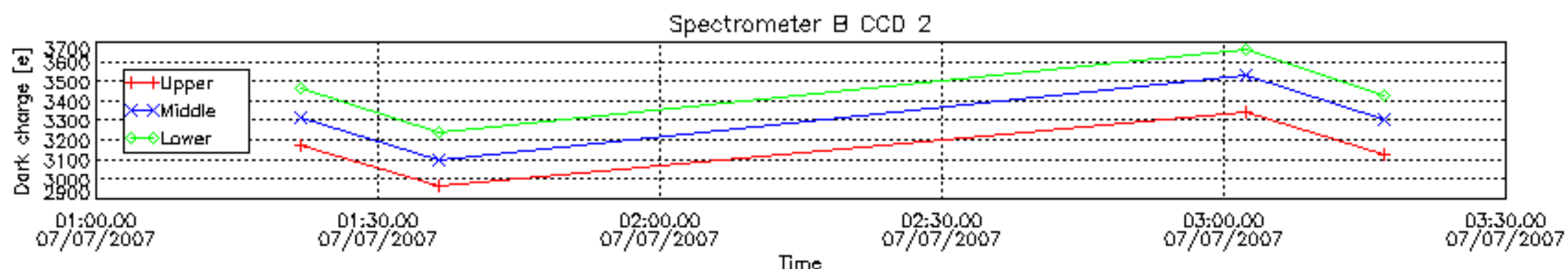
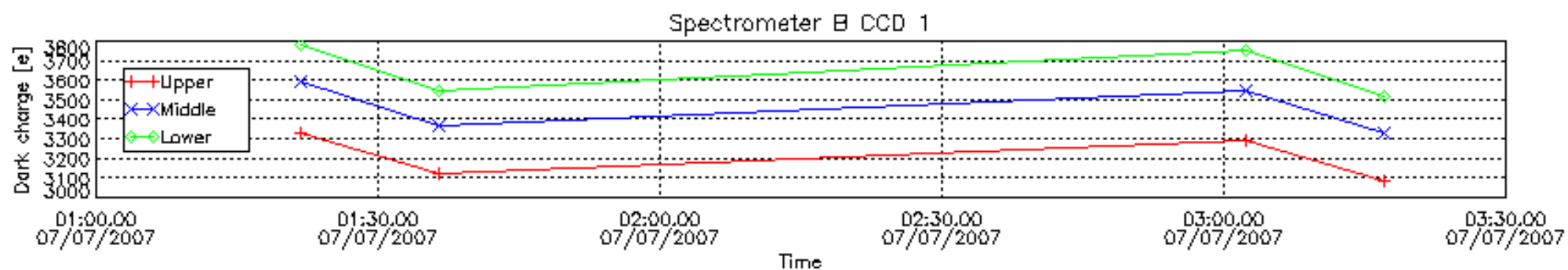
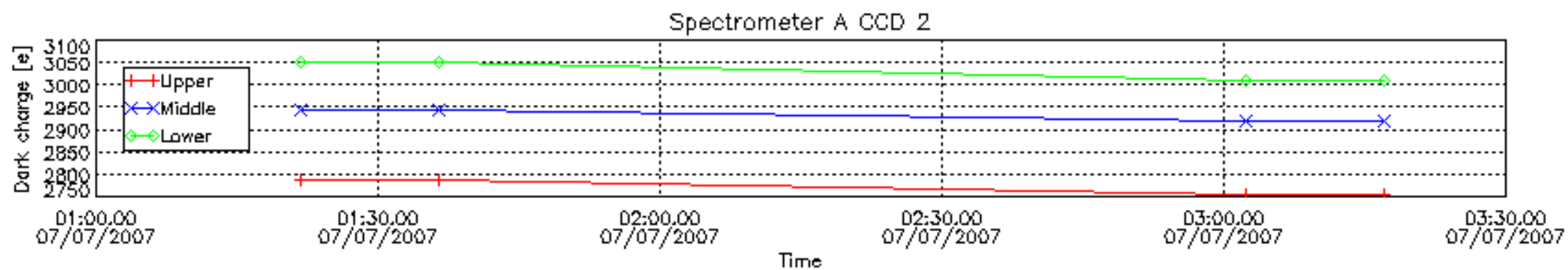
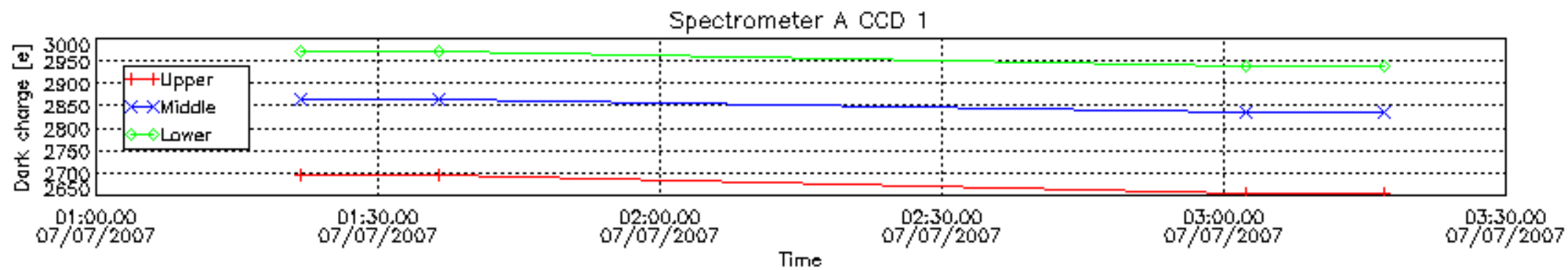
8. Auxiliary Data Files used for the production reported in section 2.4

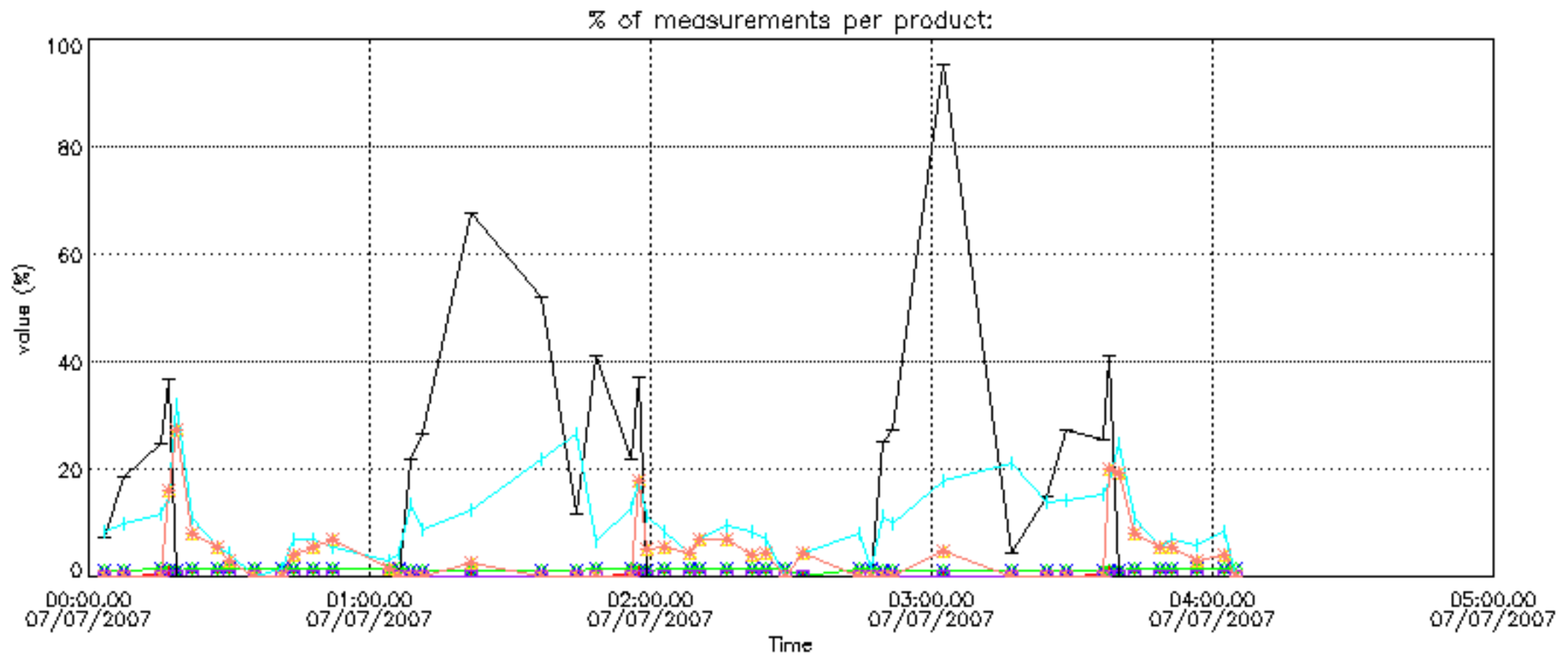
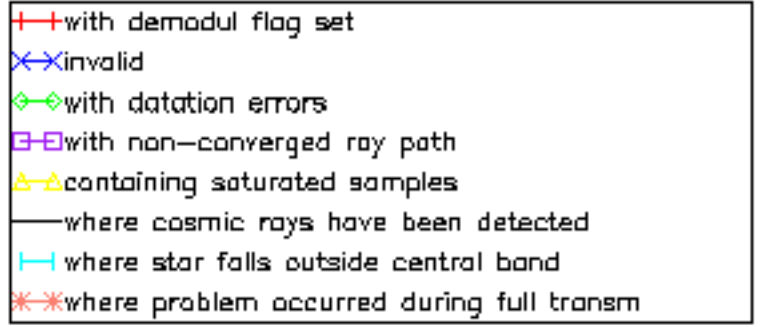
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	07-JUL-2007 00:03:26
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070702_090425_20070701_000000_20100101_000000	1	07-JUL-2007 00:03:26
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	07-JUL-2007 00:03:26
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	07-JUL-2007 00:03:26
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	07-JUL-2007 00:03:26
ECMWF_FILE	AUX_ECF_AXNECM20070706_061111_20070706_210000_20070707_090000	1	07-JUL-2007 00:03:26
OPTIONAL_ECMWF_FILE	MISSING	1	07-JUL-2007 00:03:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070706_215714_000057382059_00358_27967_3725.N1	1	07-JUL-2007 00:03:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070706_233811_000057382059_00359_27968_3726.N1	18	07-JUL-2007 01:21:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070707_011908_000041442059_00360_27969_3727.N1	33	07-JUL-2007 02:44:39

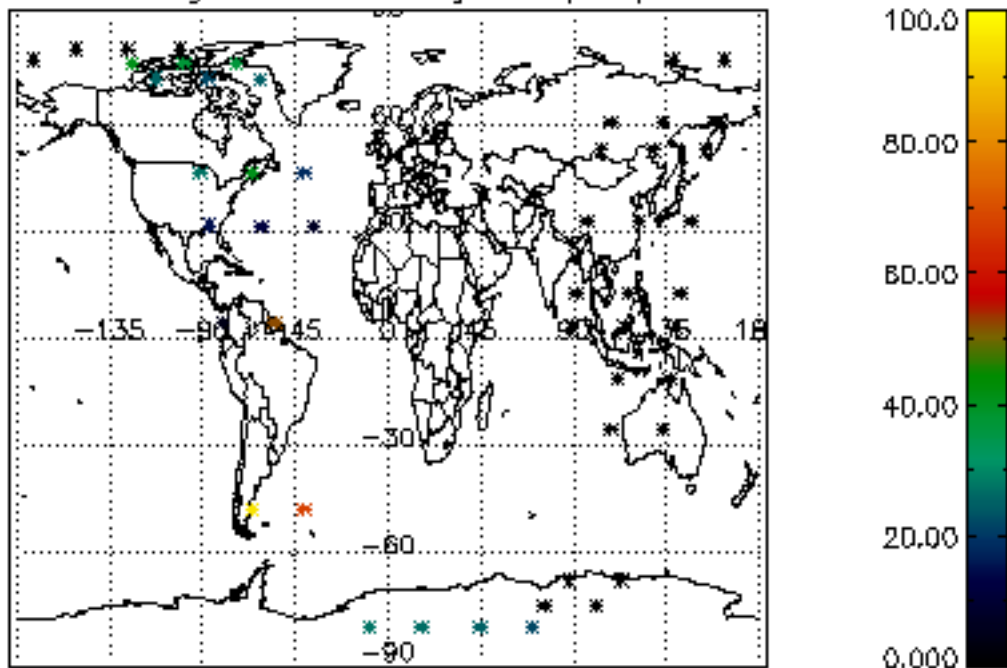




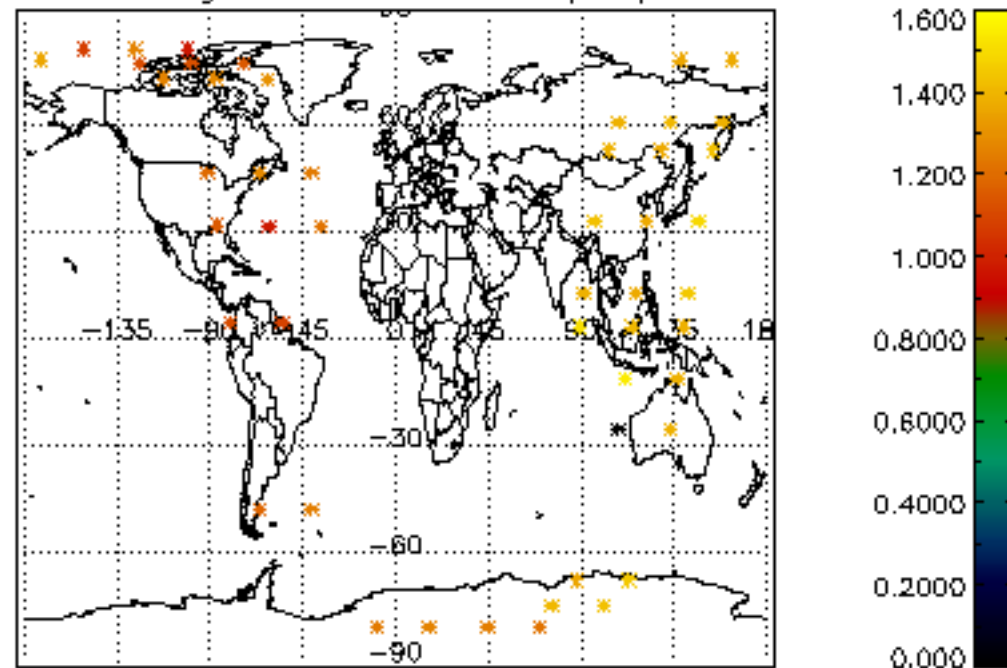




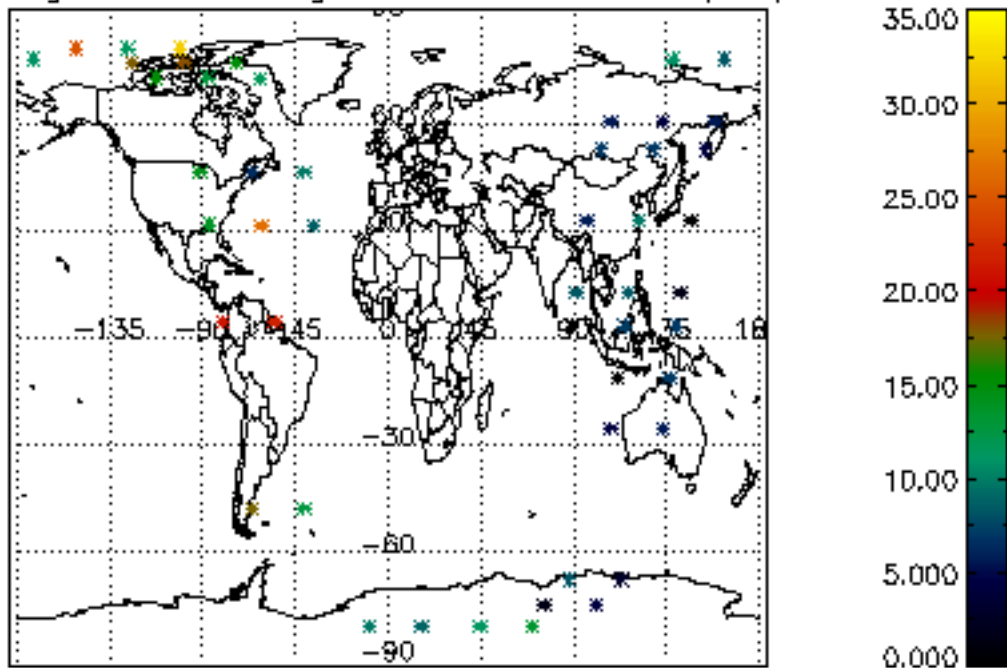
Percentage of cosmic ray hits per profile



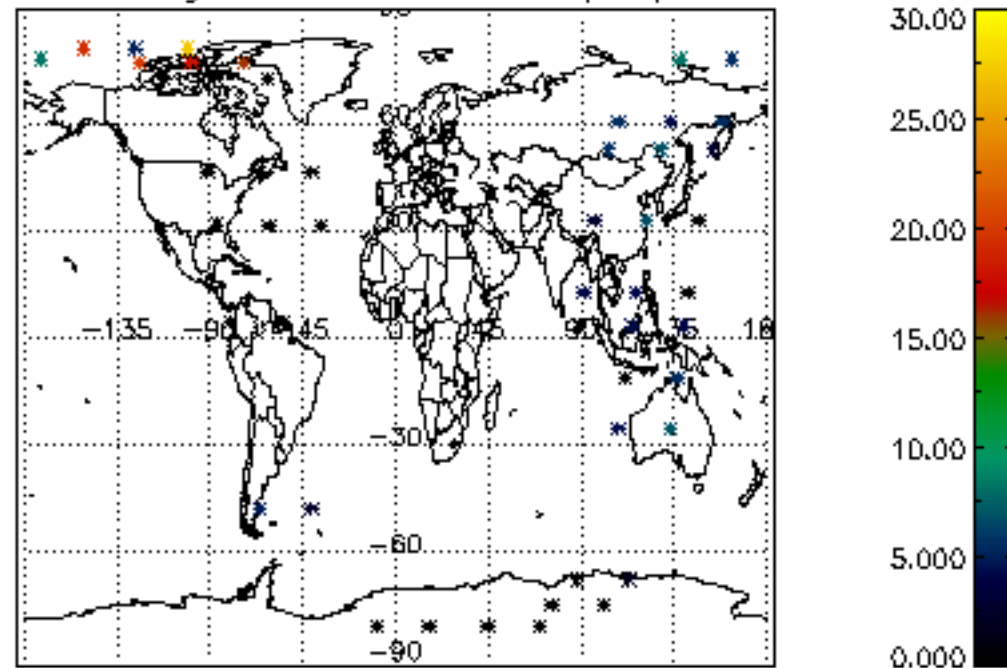
Percentage of datation errors per profile



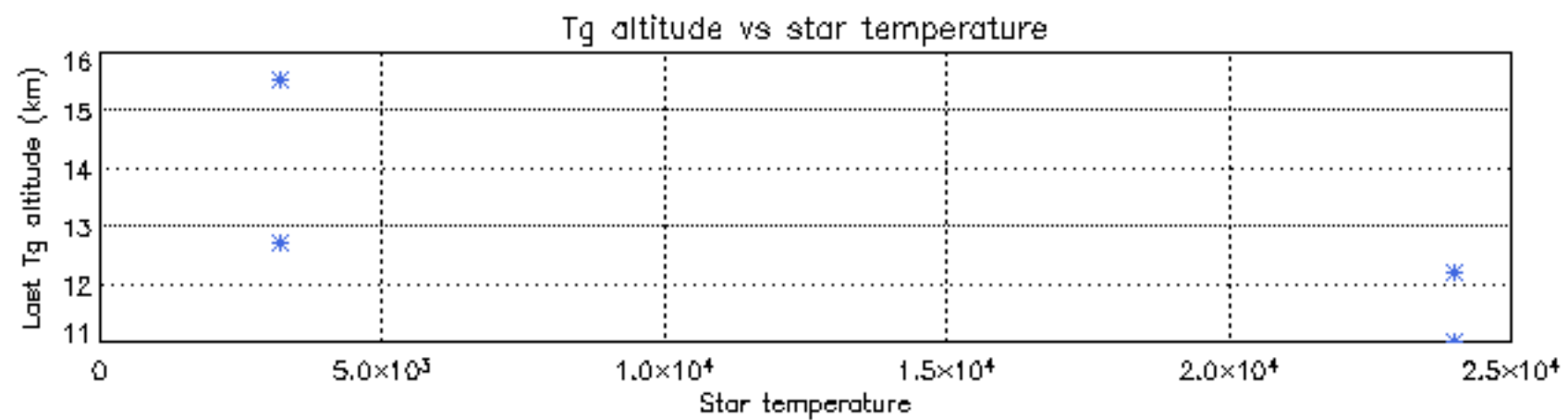
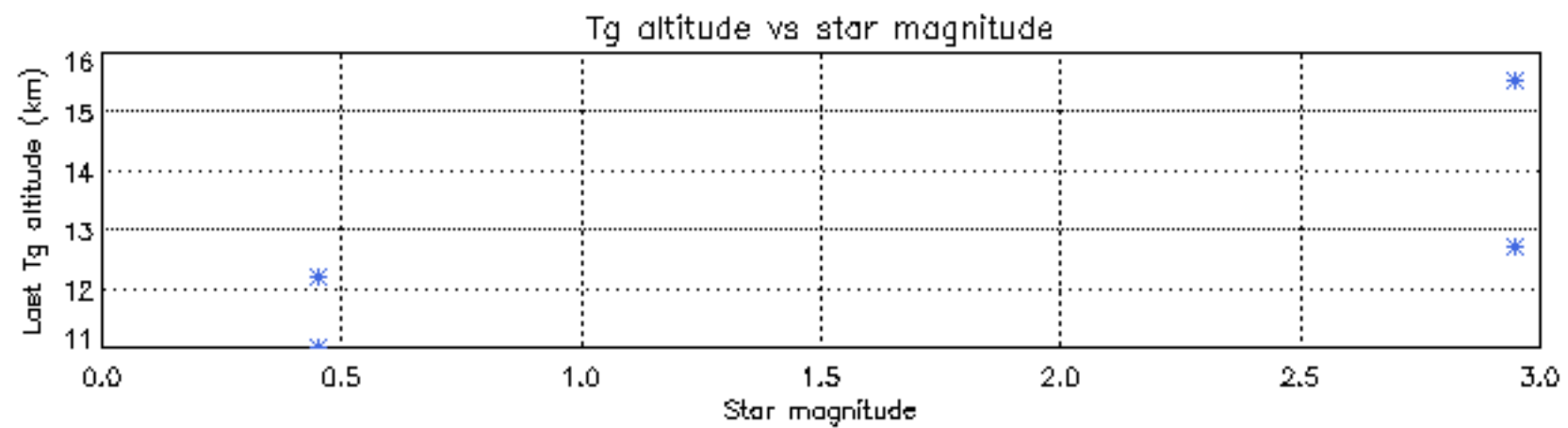
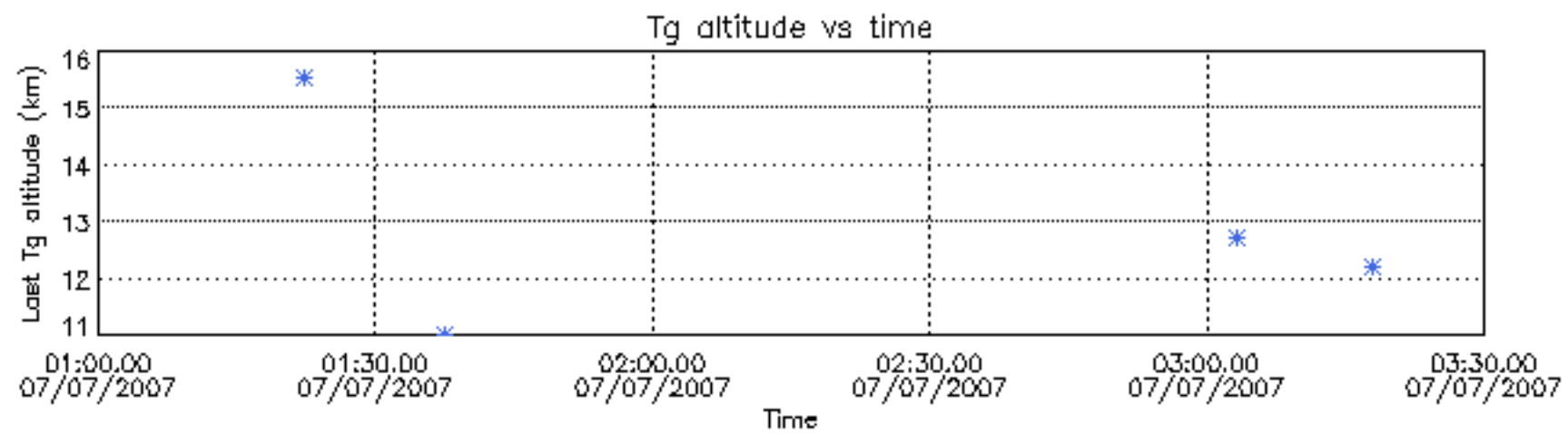
Percentage of star falling outside central band per profile



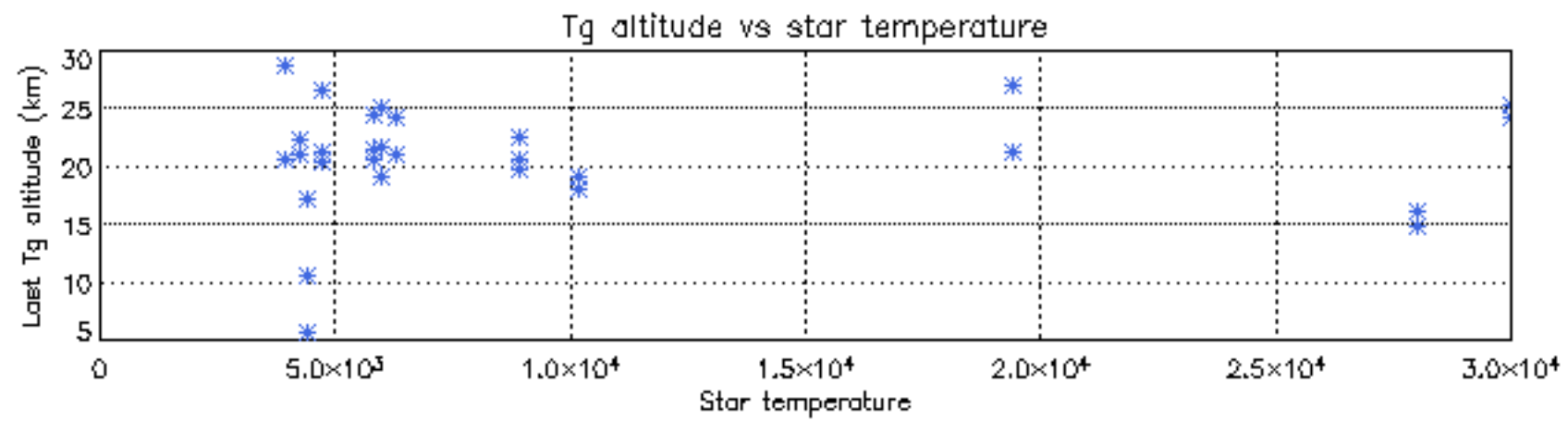
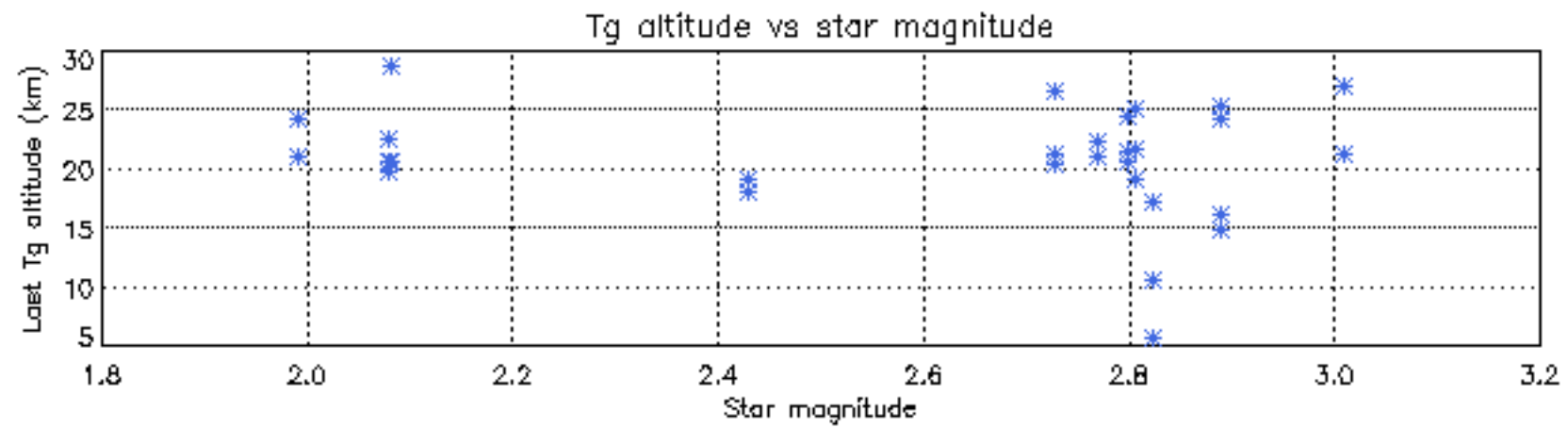
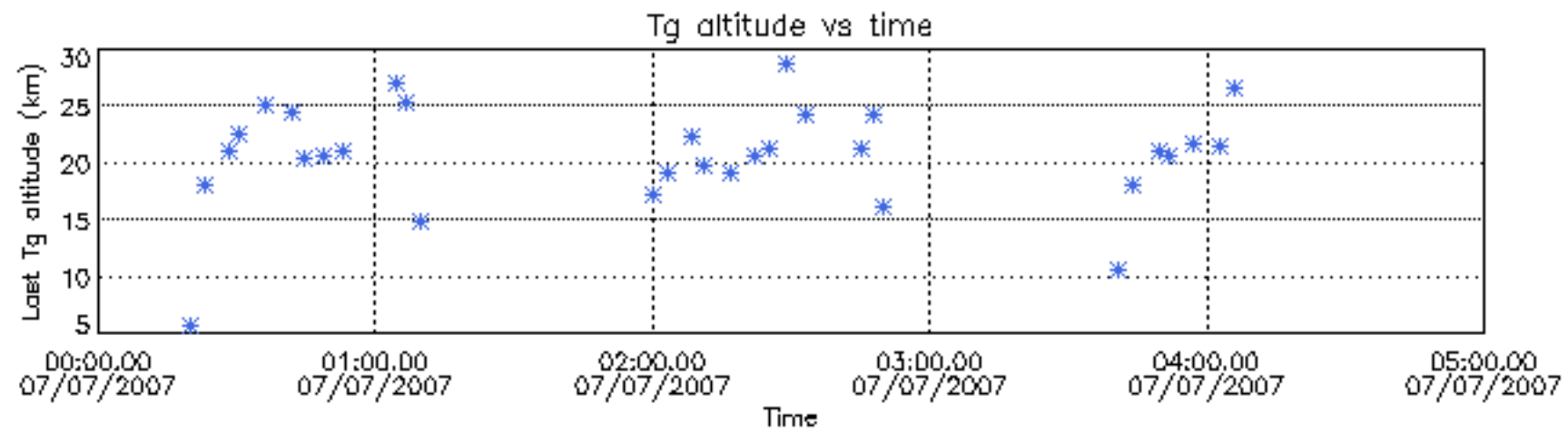
Percentage of saturation errors per profile



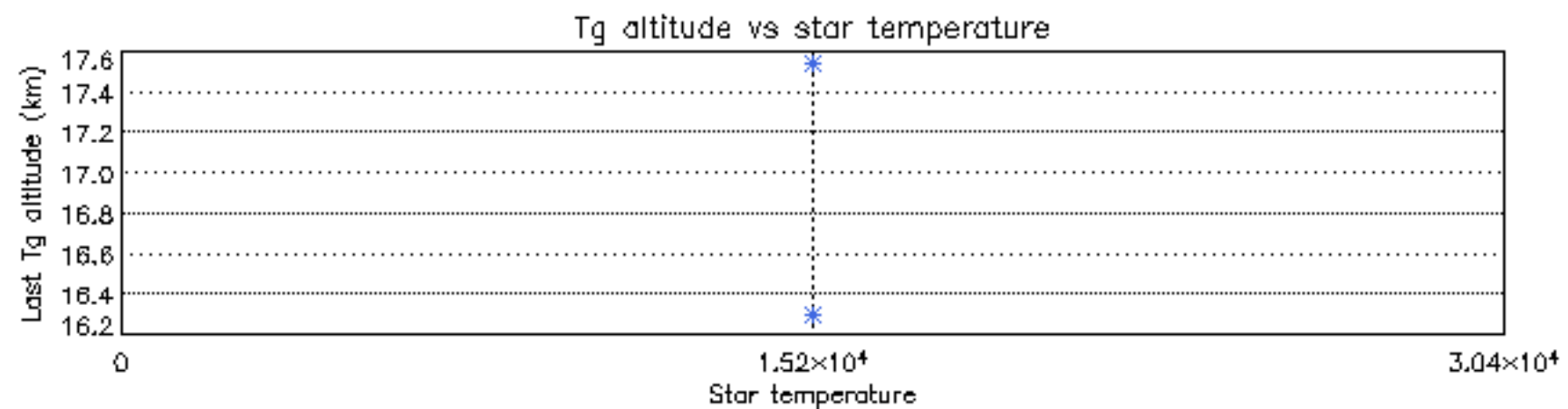
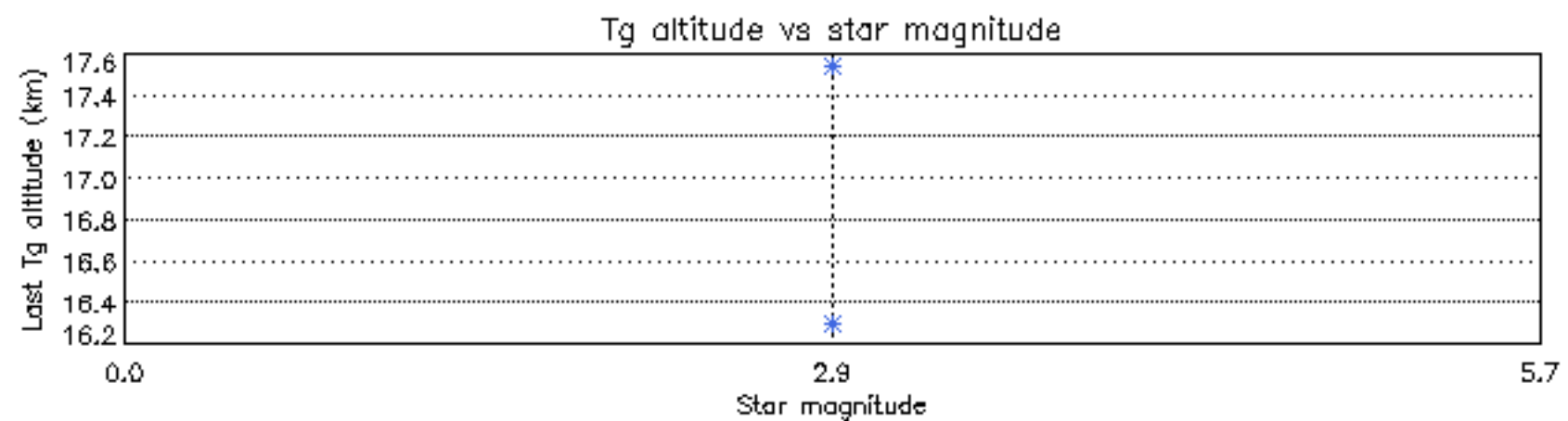
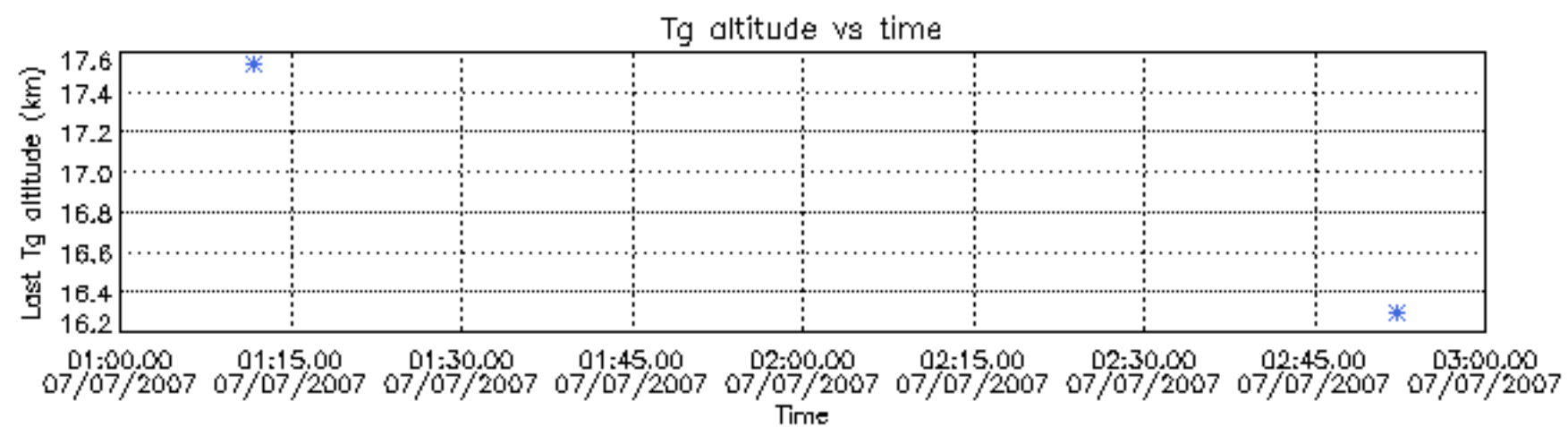
Tangent altitude at which the star is lost

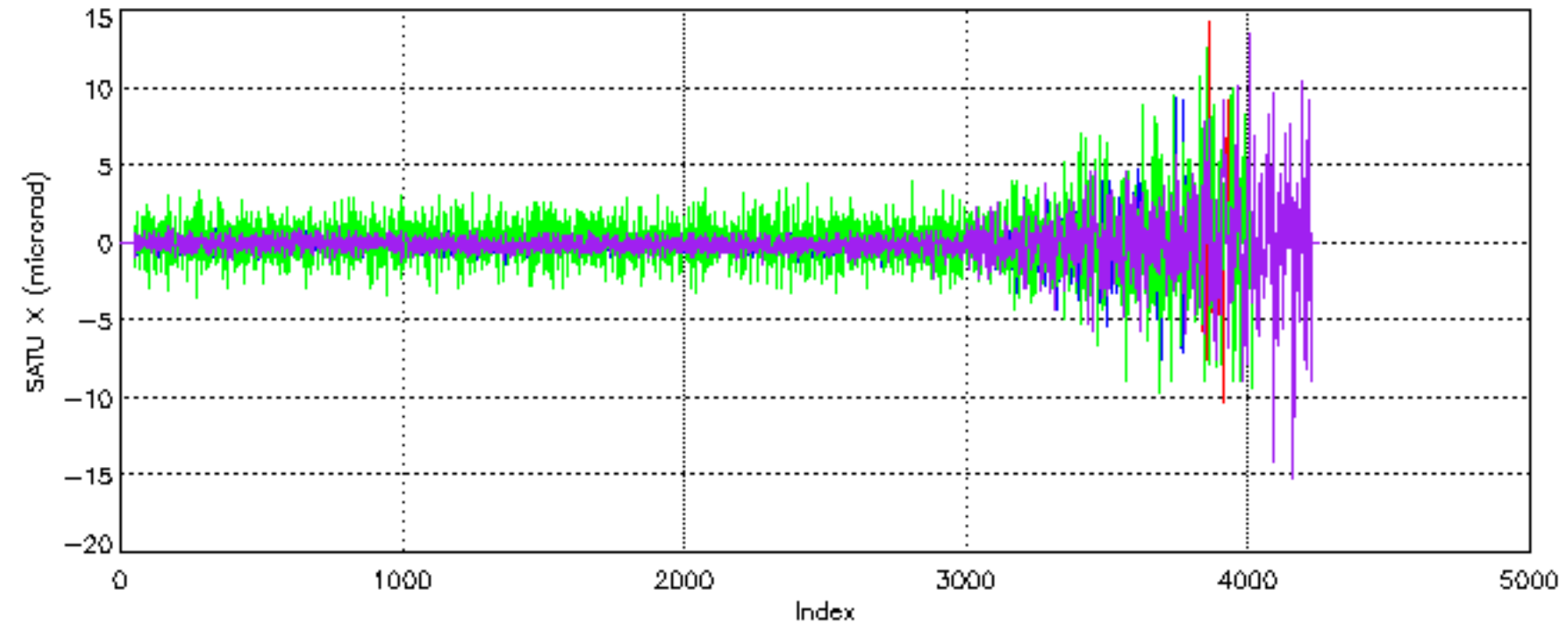


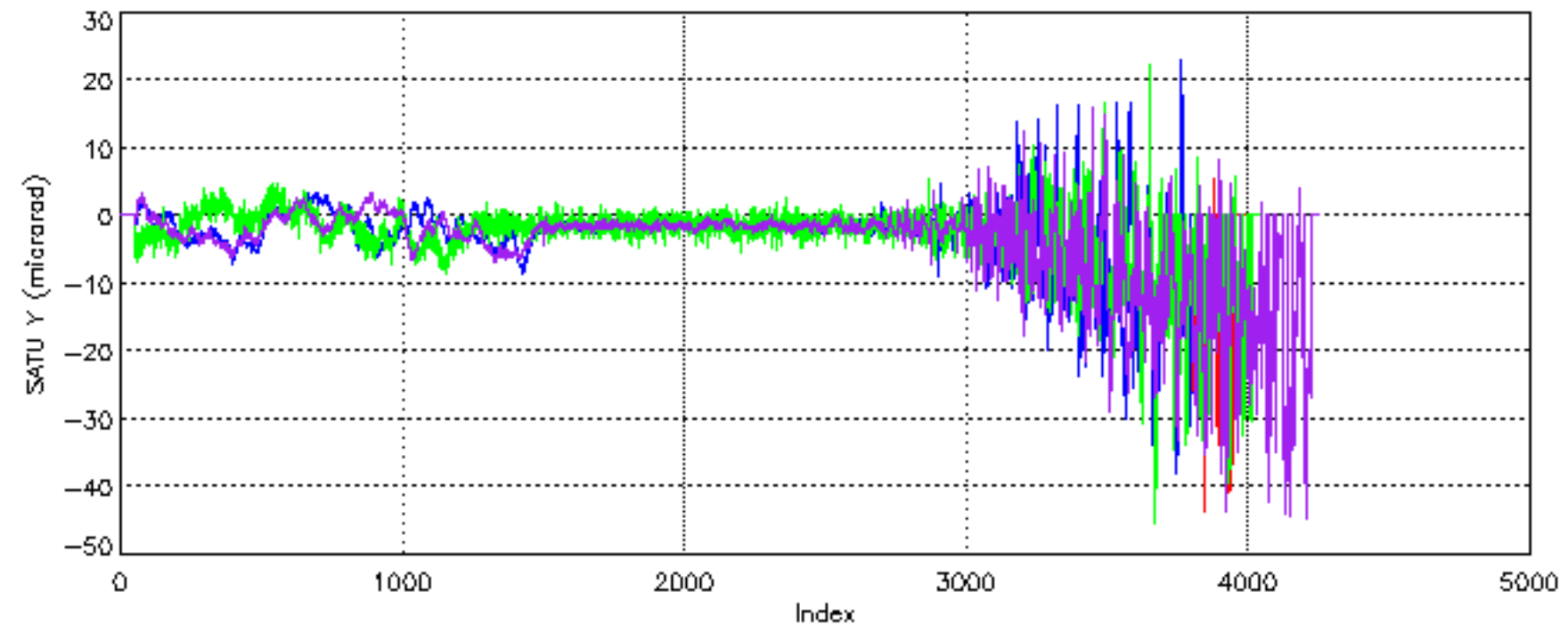
Tangent altitude at which the star is lost

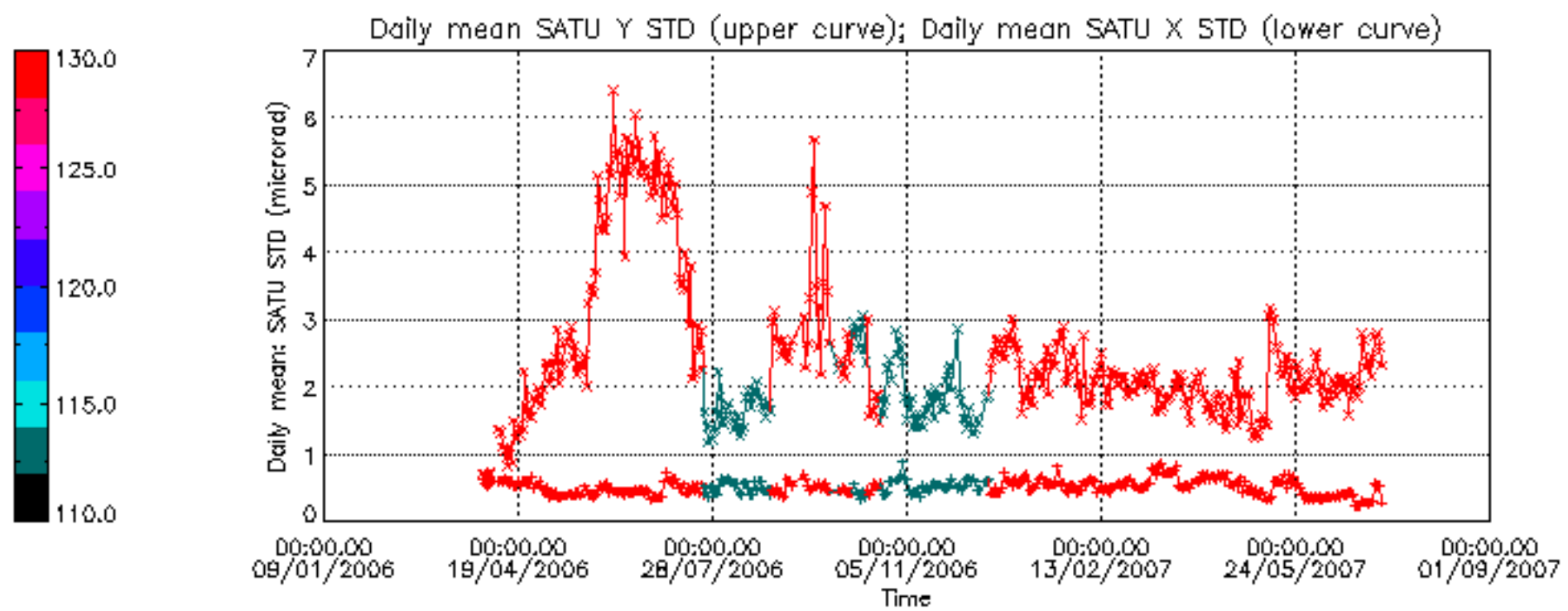


Tangent altitude at which the star is lost









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 2; -323.4; 01-JUL-2007 01:18:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27883
 3; 33.5; 01-JUL-2007 01:24:15; Dark ; 48.5; 9; Alp Eri ; 0.45; 24000;occ; 97; 0;27884
 4; 480.3; 01-JUL-2007 01:31:42; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;27884
 5; 742.9; 01-JUL-2007 01:36:04; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;27884
 6; 1062.1; 01-JUL-2007 01:41:23; Dark ; 38.0; 147; Alp Ara ; 2.88; 26000;occ; 76; 0;27884
 7; 1170.1; 01-JUL-2007 01:43:11; Dark ; 41.5; 40; The Sco ; 1.86; 7100;occ; 83; 0;27884
 8; 1269.9; 01-JUL-2007 01:44:51; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;27884
 9; 1354.5; 01-JUL-2007 01:46:16; Dark ; 44.5; 116; 19Del Sgr ; 2.70; 4100;occ; 89; 0;27884
 10; 1642.0; 01-JUL-2007 01:51:03; Bright; 37.0; 86; 35Eta Oph ; 2.43; 10200;occ; 74; 0;27884
 11; 1982.2; 01-JUL-2007 01:56:43; Bright; 36.0; 126; 60Bet Oph ; 2.77; 4250;occ; 72; 0;27884
 12; 2122.3; 01-JUL-2007 01:59:04; Bright; 38.5; 59; 55Alp Oph ; 2.08; 8900;occ; 77; 0;27884
 13; 2283.2; 01-JUL-2007 02:01:44; Bright; 35.5; 127; 27Bet Her ; 2.78; 4700;occ; 71; 0;27884
 14; 2447.8; 01-JUL-2007 02:04:29; Bright; 36.5; 133; 40Zet Her ; 2.81; 6000;occ; 73; 0;27884
 15; 2810.0; 01-JUL-2007 02:10:31; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;27884
 16; 2952.4; 01-JUL-2007 02:12:54; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;27884
 17; 3190.9; 01-JUL-2007 02:16:52; Bright; 32.5; 60; 7Bet UMi ; 2.08; 3950;occ; 65; 0;27884
 18; 3445.4; 01-JUL-2007 02:21:07; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27884

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 5; 34.1; 01-JUL-2007 03:04:51; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;27885
 6; 481.1; 01-JUL-2007 03:12:18; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;27885
 7; 743.5; 01-JUL-2007 03:16:41; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;27885
 8; 1062.3; 01-JUL-2007 03:21:59; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;27885
 9; 1170.4; 01-JUL-2007 03:23:47; Dark ; 41.0; 40; The Sco ; 1.86; 7100;occ; 82; 0;27885
 10; 1270.3; 01-JUL-2007 03:25:27; Dark ; 39.5; 25; 35Lam Sco ; 1.62; 28000;occ; 79; 0;27885
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 12; 1642.3; 01-JUL-2007 03:31:39; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;27885
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 14; 2122.4; 01-JUL-2007 03:39:40; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;27885
 15; 2283.4; 01-JUL-2007 03:42:20; Bright; 34.5; 127; 27Bet Her ; 2.78; 4700;occ; 69; 0;27885
 16; 2448.0; 01-JUL-2007 03:45:05; Bright; 35.5; 133; 40Zet Her ; 2.81; 6000;occ; 71; 0;27885
 17; 2810.0; 01-JUL-2007 03:51:07; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;27885
 18; 2952.5; 01-JUL-2007 03:53:30; Bright; 33.0; 119; 14Eta Dra ; 2.73; 4700;occ; 66; 0;27885
 19; 3191.1; 01-JUL-2007 03:57:28; Bright; 33.0; 60; 7Bet UMi ; 2.08; 3950;occ; 66; 0;27885
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 6; 481.7; 01-JUL-2007 04:52:55; Dark ; 44.0; 148; Alp Tuc ; 2.88; 4100;occ; 88; 0;27886
 7; 743.9; 01-JUL-2007 04:57:17; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;27886
 8; 1062.5; 01-JUL-2007 05:02:36; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;27886
 9; 1170.6; 01-JUL-2007 05:04:24; Dark ; 46.0; 40; The Sco ; 1.86; 7100;occ; 92; 0;27886
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 11; 1355.1; 01-JUL-2007 05:07:28; Dark ; 55.0; 116; 19Del Sgr ; 2.70; 4100;occ; 110; 0;27886
 12; 1642.5; 01-JUL-2007 05:12:16; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;27886
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 16; 2448.1; 01-JUL-2007 05:25:41; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;27886
 17; 2809.8; 01-JUL-2007 05:31:43; Bright; 37.5; 130; 23Bet Dra ; 2.80; 5800;occ; 75; 0;27886
 18; 2952.6; 01-JUL-2007 05:34:06; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;27886
 19; 3191.3; 01-JUL-2007 05:38:04; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;27886
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 2; -1905.1; 01-JUL-2007 05:53:44; Bright; 35.0; 35; 33Alp Per ; 1.79; 6250;occ; 70; 0;27886
 3; -835.7; 01-JUL-2007 06:11:33; Dark ; 34.5; 165; 34Gam Eri ; 2.95; 3200;occ; 69; 0;27886
 4; -321.6; 01-JUL-2007 06:20:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;27886
 5; 35.1; 01-JUL-2007 06:26:04; Dark ; 40.0; 9; Alp Eri ; 0.45; 24000;occ; 80; 0;27887
 6; 482.3; 01-JUL-2007 06:33:31; Dark ; 42.5; 148; Alp Tuc ; 2.88; 4100;occ; 85; 0;27887


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7; 744.5; 01-JUL-2007 06:37:54; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;27887
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9; 1170.8; 01-JUL-2007 06:45:00; Dark ; 43.0; 40; The Sco ; 1.86; 7100;occ; 86; 0;27887
10; 1270.7; 01-JUL-2007 06:46:40; Dark ; 40.5; 25; 35Lam Sco ; 1.62; 28000;occ; 81; 0;27887
11; 1355.3; 01-JUL-2007 06:48:04; Dark ; 48.5; 116; 19Del Sgr ; 2.70; 4100;occ; 97; 0;27887
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13; 1982.3; 01-JUL-2007 06:58:31; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;27887
14; 2122.3; 01-JUL-2007 07:00:51; Bright; 39.0; 59; 55Alp Oph ; 2.08; 8900;occ; 78; 0;27887
15; 2283.7; 01-JUL-2007 07:03:33; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;27887
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17; 2809.7; 01-JUL-2007 07:12:19; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;27887
18; 2952.5; 01-JUL-2007 07:14:42; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;27887
19; 3191.4; 01-JUL-2007 07:18:40; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;27887
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3; 1272.3; 01-JUL-2007 20:11:29; Dark ; 40.0; 25; 35Lam Sco ; 1.62; 28000;occ; 80; 0;27895
4; 1357.1; 01-JUL-2007 20:12:54; Dark ; 55.0; 116; 19Del Sgr ; 2.70; 4100;occ; 110; 0;27895
5; 1643.8; 01-JUL-2007 20:17:40; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;27895
6; 1982.2; 01-JUL-2007 20:23:19; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;27895
7; 2121.8; 01-JUL-2007 20:25:38; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;27895
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10; 2808.4; 01-JUL-2007 20:37:05; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;27895
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13; 3445.4; 01-JUL-2007 20:47:42; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;27895
14; 4131.0; 01-JUL-2007 20:59:08; Bright; 55.0; 35; 33Alp Per ; 1.79; 6250;occ; 110; 0;27895
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5; 748.9; 01-JUL-2007 21:43:21; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;27896
6; 1064.5; 01-JUL-2007 21:48:37; Dark ; 35.5; 147; Alp Ara ; 2.88; 26000;occ; 71; 0;27896
7; 1172.7; 01-JUL-2007 21:50:25; Dark ; 42.5; 40; The Sco ; 1.86; 7100;occ; 85; 0;27896
8; 1272.5; 01-JUL-2007 21:52:05; Dark ; 41.0; 25; 35Lam Sco ; 1.62; 28000;occ; 82; 0;27896
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