

GOMOS Daily Report 01-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	03JUL2007 05:43:55
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (01JUL2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (02JUL2007 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)

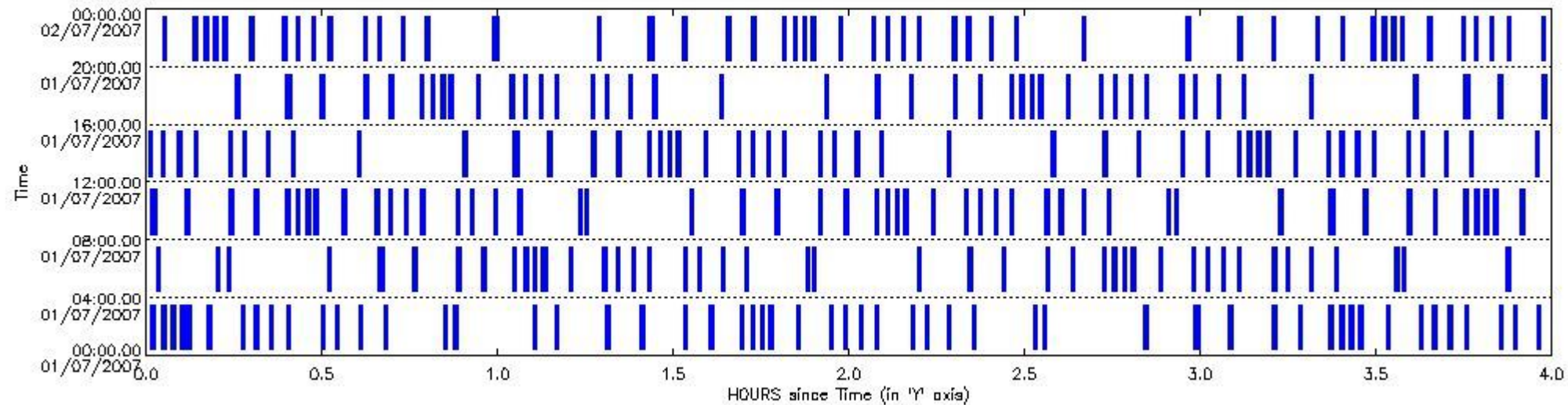
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

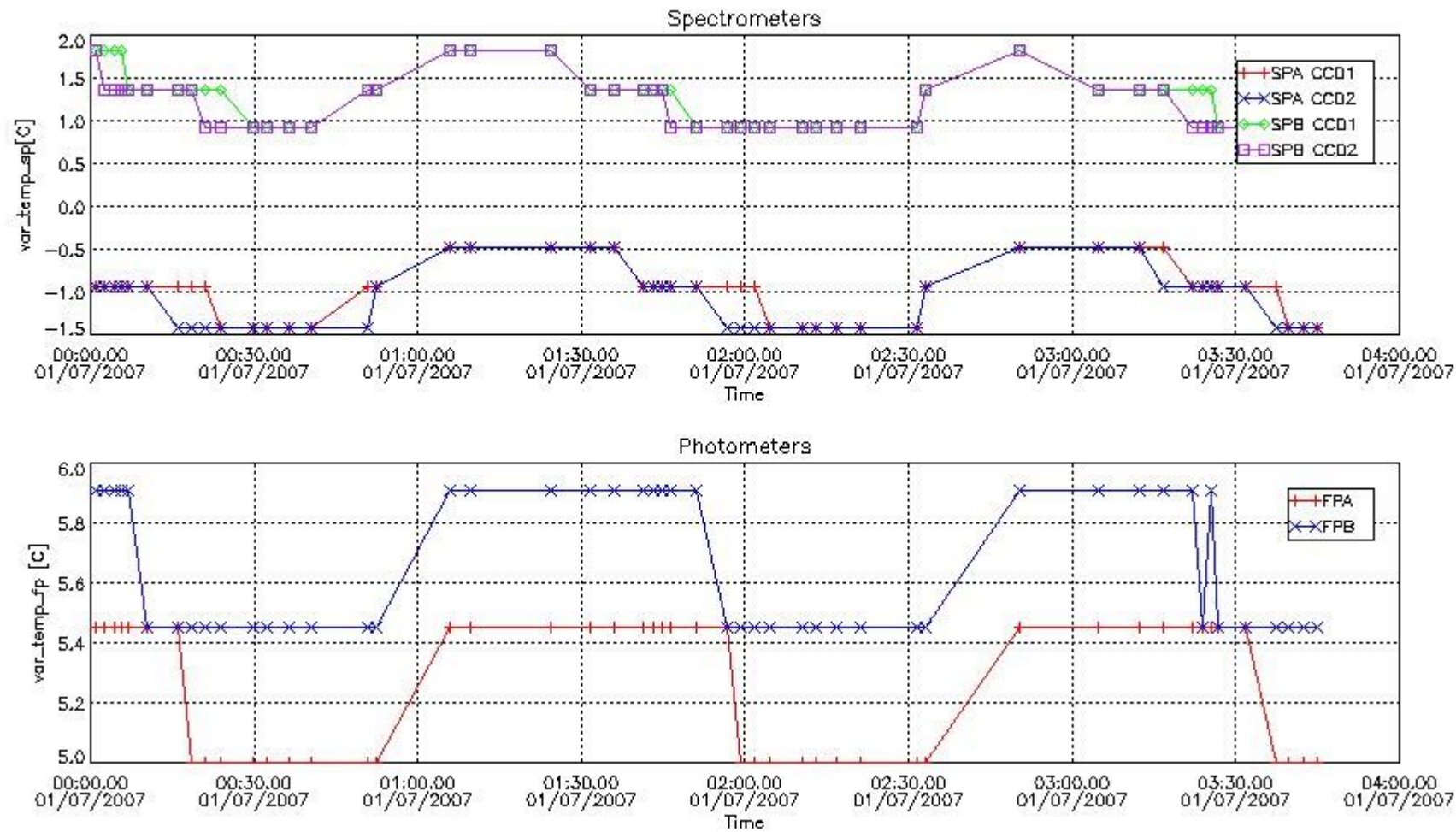
No missing products.

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_1PNPDE20070701_000047_000000382059_00274_27883_6303.N1	01-JUL-2007 00:00:47	Twilight_stray	37.500	147	Alp Ara	2.8770	26000.	75	27883	No
2	GOM_TRA_1PNPDE20070701_000235_000000402059_00274_27883_6304.N1	01-JUL-2007 00:02:35	Twilight_stray	40.000	40	The Sco	1.8590	7100.0	80	27883	No
3	GOM_TRA_1PNPDE20070701_000415_000000412059_00274_27883_6305.N1	01-JUL-2007 00:04:15	Twilight_stray	40.500	25	35Lam Sco	1.6200	28000.	81	27883	No
4	GOM_TRA_1PNPDE20070701_000540_000000552059_00274_27883_6306.N1	01-JUL-2007 00:05:40	Bright	55.000	116	19Del Sgr	2.7000	4100.0	110	27883	No
5	GOM_TRA_1PNPDE20070701_000652_000000412059_00274_27883_6307.N1	01-JUL-2007 00:06:52	Bright	41.000	137	22Lam Sgr	2.8240	4400.0	82	27883	No
6	GOM_TRA_1PNPDE20070701_001027_000000372059_00274_27883_6308.N1	01-JUL-2007 00:10:27	Bright	36.500	86	35Eta Oph	2.4300	10200.	73	27883	No
7	GOM_TRA_1PNPDE20070701_001607_000000372059_00274_27883_6309.N1	01-JUL-2007 00:16:07	Bright	36.500	126	60Bet Oph	2.7700	4250.0	73	27883	No
8	GOM_TRA_1PNPDE20070701_001828_000000382059_00274_27883_6310.N1	01-JUL-2007 00:18:28	Bright	37.500	59	55Alp Oph	2.0800	8900.0	75	27883	No
9	GOM_TRA_1PNPDE20070701_002108_000000352059_00274_27883_6311.N1	01-JUL-2007 00:21:08	Bright	34.500	127	27Bet Her	2.7810	4700.0	69	27883	No
10	GOM_TRA_1PNPDE20070701_002353_000000372059_00274_27883_6312.N1	01-JUL-2007 00:23:53	Bright	37.000	133	40Zet Her	2.8070	6000.0	74	27883	No
11	GOM_TRA_1PNPDE20070701_002955_000000372059_00274_27883_6313.N1	01-JUL-2007 00:29:55	Bright	36.500	130	23Bet Dra	2.7990	5800.0	73	27883	No
12	GOM_TRA_1PNPDE20070701_003218_000000362059_00274_27883_6314.N1	01-JUL-2007 00:32:18	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	27883	No

13	GOM_TRA_1PNPDE20070701_003616_000000352059_00274_27883_6315.N1	01-JUL-2007 00:36:16	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	27883	No
14	GOM_TRA_1PNPDE20070701_004031_000000332059_00274_27883_6316.N1	01-JUL-2007 00:40:31	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	27883	No
15	GOM_TRA_1PNPDE20070701_005049_000000372059_00274_27883_6317.N1	01-JUL-2007 00:50:49	Bright	36.500	160	23Gam Per	2.9300	4700.0	73	27883	No
16	GOM_TRA_1PNPDE20070701_005231_000000342059_00274_27883_6318.N1	01-JUL-2007 00:52:31	Bright	34.000	175	39Del Per	3.0100	19400.	68	27883	No
17	GOM_TRA_1PNPDE20070701_010600_000000372059_00274_27883_6319.N1	01-JUL-2007 01:06:00	Dark	37.000	94	92Alp Cet	2.5260	3100.0	74	27883	No
18	GOM_TRA_1PNPDE20070701_010945_000000372059_00274_27883_6436.N1	01-JUL-2007 01:09:45	Dark	37.000	165	34Gam Eri	2.9500	3200.0	74	27883	No
19	GOM_TRA_1PNPDE20070701_012415_000000492059_00275_27884_6437.N1	01-JUL-2007 01:24:15	Dark	48.500	9	Alp Eri	0.45300	24000.	97	27884	No
20	GOM_TRA_1PNPDE20070701_013142_000000412059_00275_27884_6438.N1	01-JUL-2007 01:31:42	Straylight	41.000	148	Alp Tuc	2.8780	4100.0	82	27884	No
21	GOM_TRA_1PNPDE20070701_013604_000000412059_00275_27884_6439.N1	01-JUL-2007 01:36:04	Straylight	41.000	45	Alp Pav	1.9400	26000.	82	27884	No
22	GOM_TRA_1PNPDE20070701_014123_000000382059_00275_27884_6440.N1	01-JUL-2007 01:41:23	Tw_i_and_stray	38.000	147	Alp Ara	2.8770	26000.	76	27884	No
23	GOM_TRA_1PNPDE20070701_014311_000000422059_00275_27884_6441.N1	01-JUL-2007 01:43:11	Tw_i_and_stray	41.500	40	The Sco	1.8590	7100.0	83	27884	No
24	GOM_TRA_1PNPDE20070701_014451_000000412059_00275_27884_6442.N1	01-JUL-2007 01:44:51	Tw_i_and_stray	41.000	25	35Lam Sco	1.6200	28000.	82	27884	No
25	GOM_TRA_1PNPDE20070701_014616_000000452059_00275_27884_6443.N1	01-JUL-2007 01:46:16	Bright	44.500	116	19Del Sgr	2.7000	4100.0	89	27884	No
26	GOM_TRA_1PNPDE20070701_015103_000000372059_00275_27884_6444.N1	01-JUL-2007 01:51:03	Bright	37.000	86	35Eta Oph	2.4300	10200.	74	27884	No
27	GOM_TRA_1PNPDE20070701_015643_000000362059_00275_27884_6445.N1	01-JUL-2007 01:56:43	Bright	36.000	126	60Bet Oph	2.7700	4250.0	72	27884	No
28	GOM_TRA_1PNPDE20070701_015904_000000392059_00275_27884_6446.N1	01-JUL-2007 01:59:04	Bright	38.500	59	55Alp Oph	2.0800	8900.0	77	27884	No
29	GOM_TRA_1PNPDE20070701_020144_000000362059_00275_27884_6447.N1	01-JUL-2007 02:01:44	Bright	35.500	127	27Bet Her	2.7810	4700.0	71	27884	No
30	GOM_TRA_1PNPDE20070701_020429_000000372059_00275_27884_6448.N1	01-JUL-2007 02:04:29	Bright	36.500	133	40Zet Her	2.8070	6000.0	73	27884	No
31	GOM_TRA_1PNPDE20070701_021031_000000382059_00275_27884_6449.N1	01-JUL-2007 02:10:31	Bright	38.000	130	23Bet Dra	2.7990	5800.0	76	27884	No
32	GOM_TRA_1PNPDE20070701_021254_000000362059_00275_27884_6450.N1	01-JUL-2007 02:12:54	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	27884	No
33	GOM_TRA_1PNPDE20070701_021652_000000332059_00275_27884_6451.N1	01-JUL-2007 02:16:52	Bright	32.500	60	7Bet UMi	2.0810	3950.0	65	27884	No
34	GOM_TRA_1PNPDE20070701_022107_000000362059_00275_27884_6452.N1	01-JUL-2007 02:21:07	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	27884	No
35	GOM_TRA_1PNPDE20070701_023125_000000362059_00275_27884_6585.N1	01-JUL-2007 02:31:25	Bright	36.000	160	23Gam Per	2.9300	4700.0	72	27884	No
36	GOM_TRA_1PNPDE20070701_023307_000000332059_00275_27884_6586.N1	01-JUL-2007 02:33:07	Bright	32.500	175	39Del Per	3.0100	19400.	65	27884	No
37	GOM_TRA_1PNPDE20070701_025021_000000412059_00275_27884_6587.N1	01-JUL-2007 02:50:21	Dark	40.500	165	34Gam Eri	2.9500	3200.0	81	27884	No
38	GOM_TRA_1PNPDE20070701_030451_000000452059_00276_27885_6588.N1	01-JUL-2007 03:04:51	Dark	45.000	9	Alp Eri	0.45300	24000.	90	27885	No
39	GOM_TRA_1PNPDE20070701_031218_000000412059_00276_27885_6589.N1	01-JUL-2007 03:12:18	Straylight	40.500	148	Alp Tuc	2.8780	4100.0	81	27885	No
40	GOM_TRA_1PNPDE20070701_031641_000000422059_00276_27885_6590.N1	01-JUL-2007 03:16:41	Straylight	41.500	45	Alp Pav	1.9400	26000.	83	27885	No
41	GOM_TRA_1PNPDE20070701_032159_000000372059_00276_27885_6591.N1	01-JUL-2007 03:21:59	Tw_i_and_stray	37.000	147	Alp Ara	2.8770	26000.	74	27885	No
42	GOM_TRA_1PNPDE20070701_032347_000000412059_00276_27885_6592.N1	01-JUL-2007 03:23:47	Tw_i_and_stray	41.000	40	The Sco	1.8590	7100.0	82	27885	No
43	GOM_TRA_1PNPDE20070701_032527_000000402059_00276_27885_6593.N1	01-JUL-2007 03:25:27	Tw_i_and_stray	39.500	25	35Lam Sco	1.6200	28000.	79	27885	No
44	GOM_TRA_1PNPDE20070701_032652_000000532059_00276_27885_6594.N1	01-JUL-2007 03:26:52	Bright	53.000	116	19Del Sgr	2.7000	4100.0	106	27885	No
45	GOM_TRA_1PNPDE20070701_033139_000000362059_00276_27885_6595.N1	01-JUL-2007 03:31:39	Bright	36.000	86	35Eta Oph	2.4300	10200.	72	27885	No
46	GOM_TRA_1PNPDE20070701_033719_000000382059_00276_27885_6596.N1	01-JUL-2007 03:37:19	Bright	37.500	126	60Bet Oph	2.7700	4250.0	75	27885	No
47	GOM_TRA_1PNPDE20070701_033940_000000382059_00276_27885_6597.N1	01-JUL-2007 03:39:40	Bright	38.000	59	55Alp Oph	2.0800	8900.0	76	27885	No
48	GOM_TRA_1PNPDE20070701_034220_000000352059_00276_27885_6598.N1	01-JUL-2007 03:42:20	Bright	34.500	127	27Bet Her	2.7810	4700.0	69	27885	No
49	GOM_TRA_1PNPDE20070701_034505_000000362059_00276_27885_6599.N1	01-JUL-2007 03:45:05	Bright	35.500	133	40Zet Her	2.8070	6000.0	71	27885	No

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



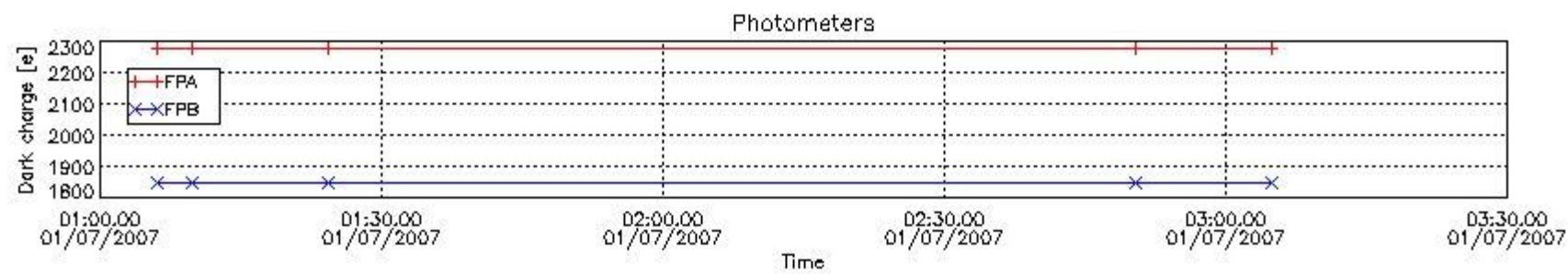
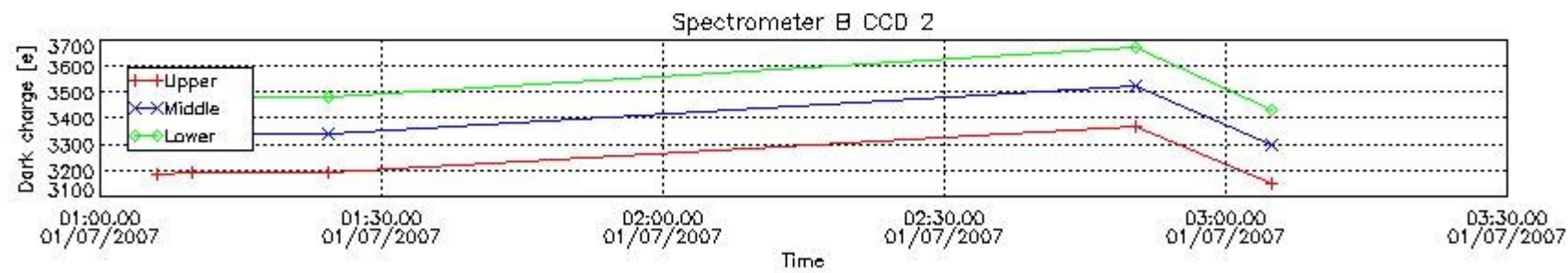
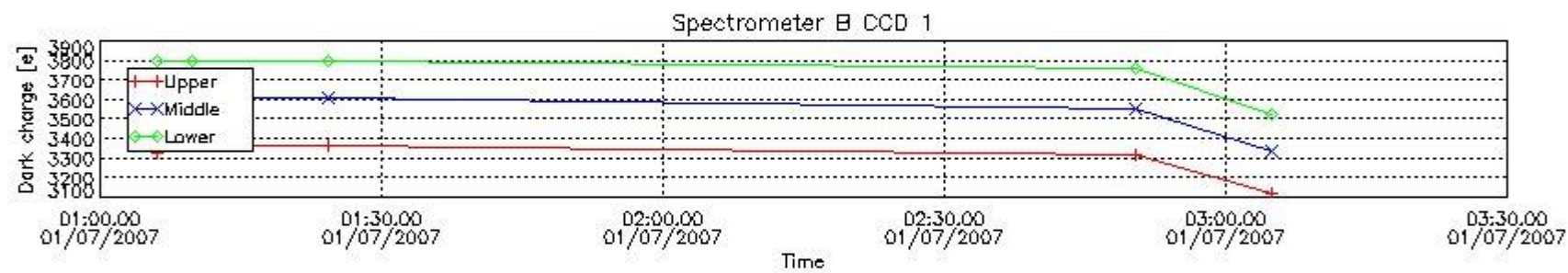
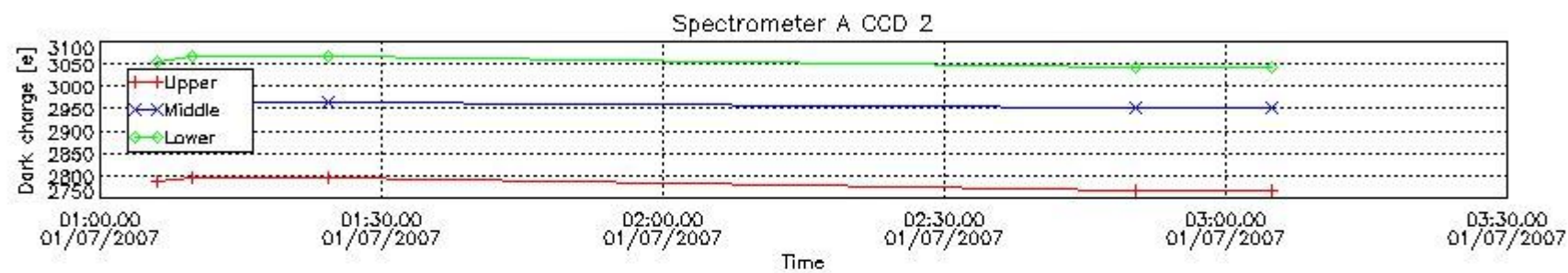
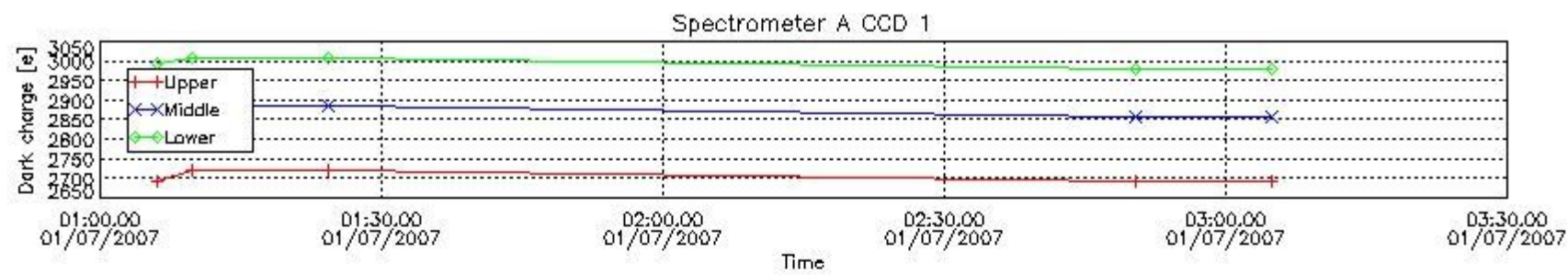
4. Overview of dark signal processing per product

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



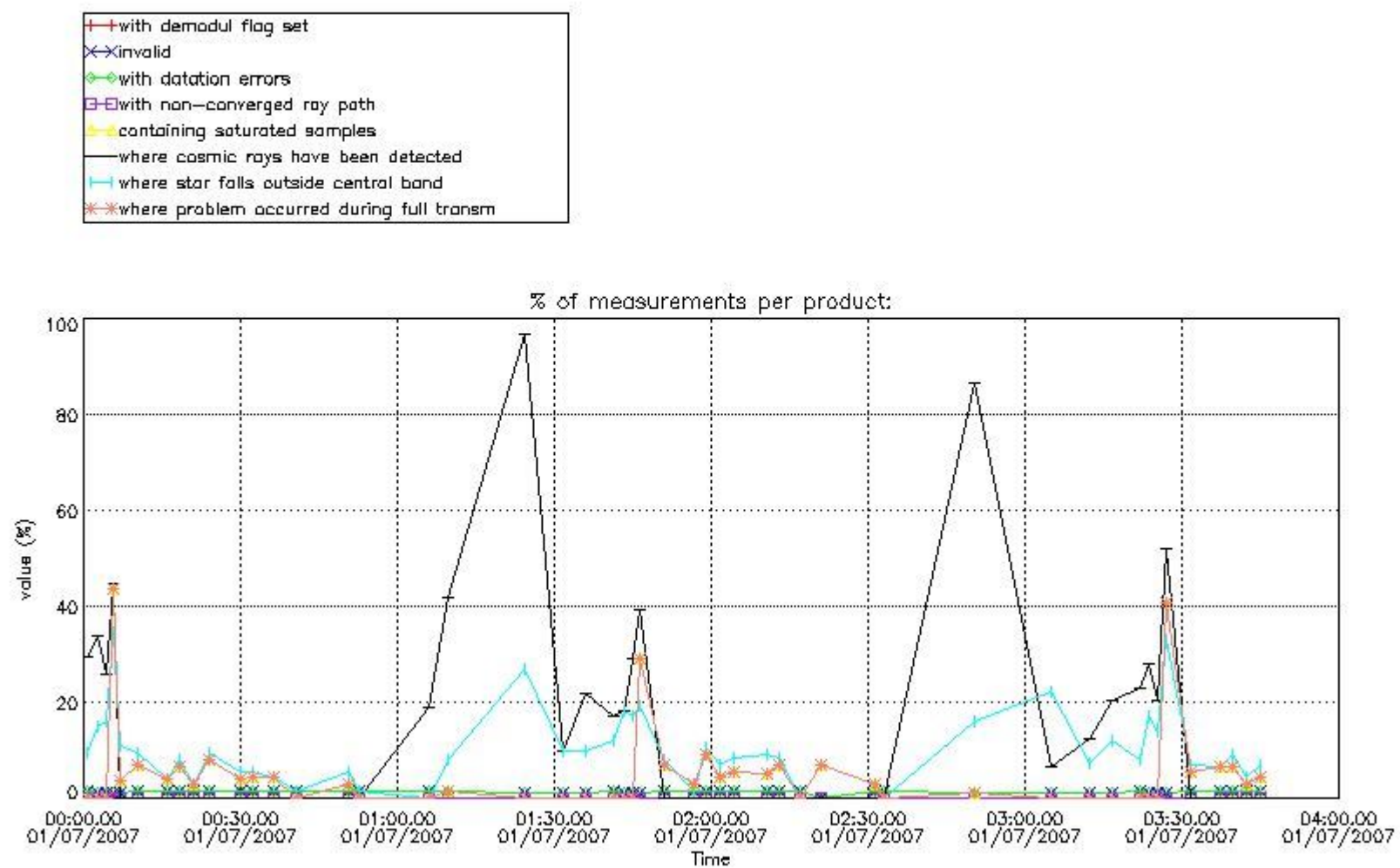
5. Demodulation flag and quality information monitoring

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.

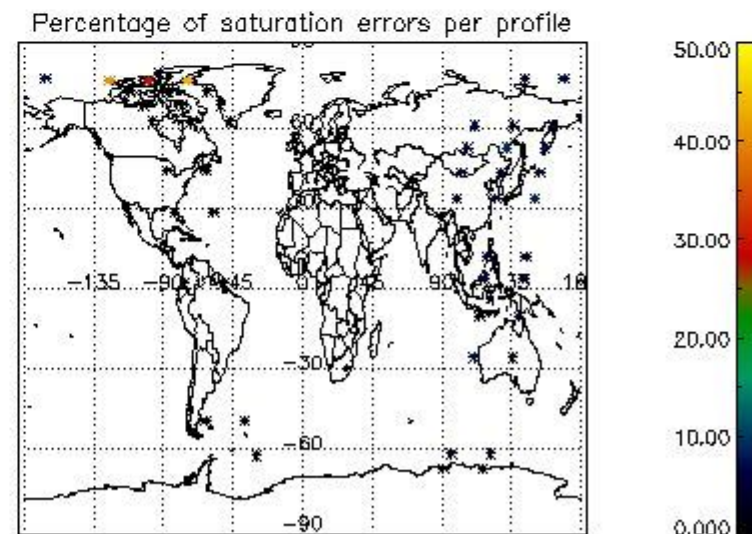
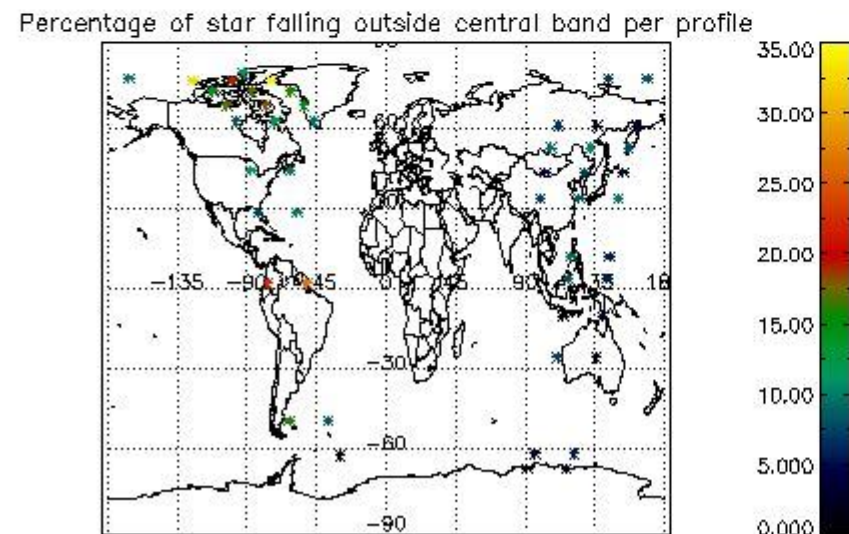
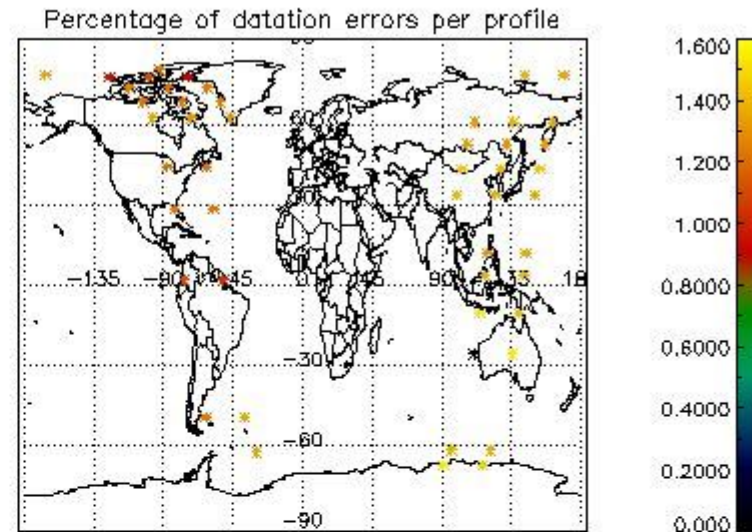
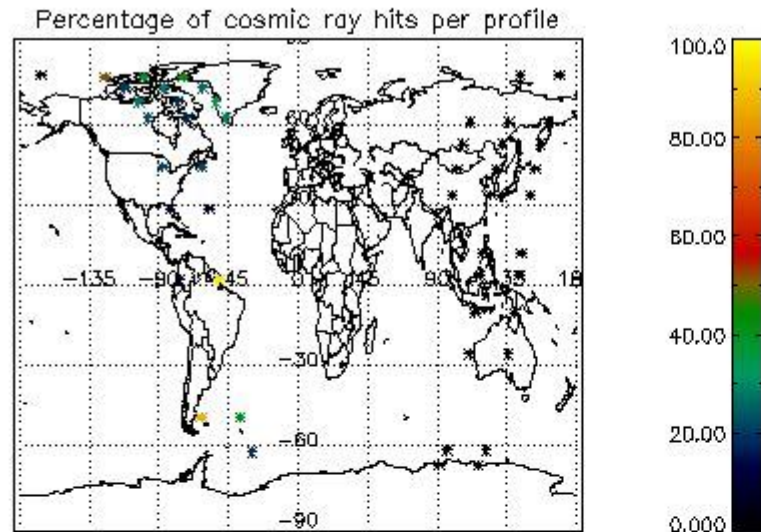
5.1 Percentage of products during reporting period with:

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)



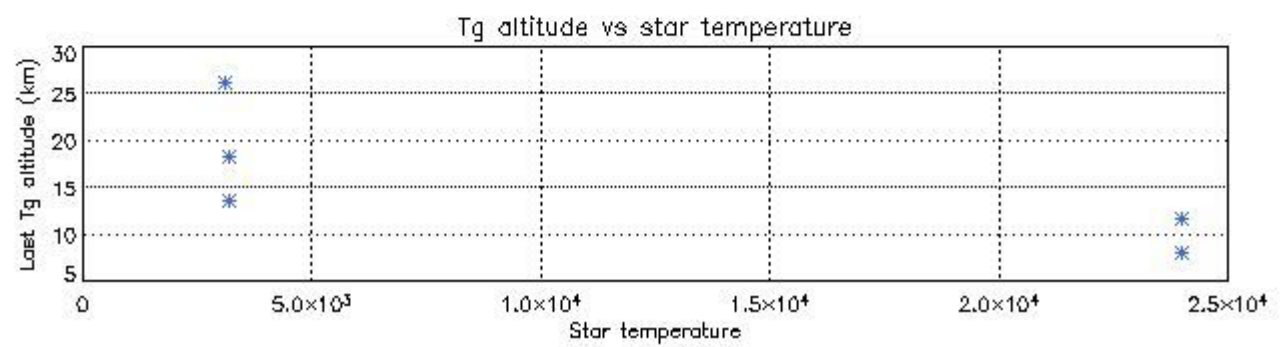
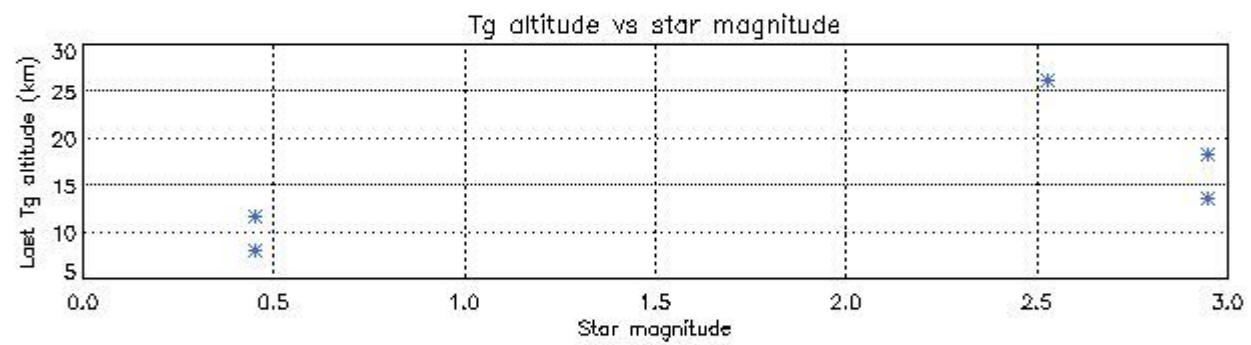
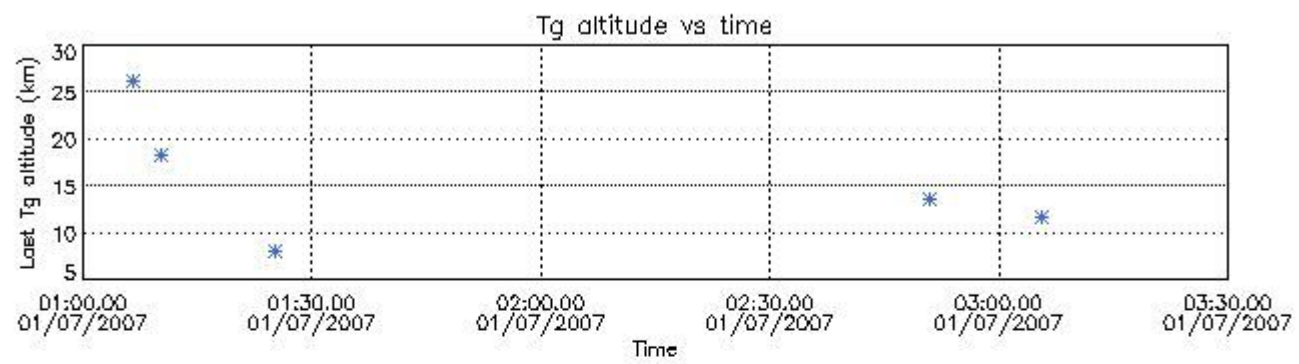
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.490	20.301	NaN
St. deviation:	6.9983	5.4479	NaN
Maximum:	26.149	29.193	NaN
Minimum:	8.0283	4.0005	NaN
Number of data:	5.0000	31.000	NaN

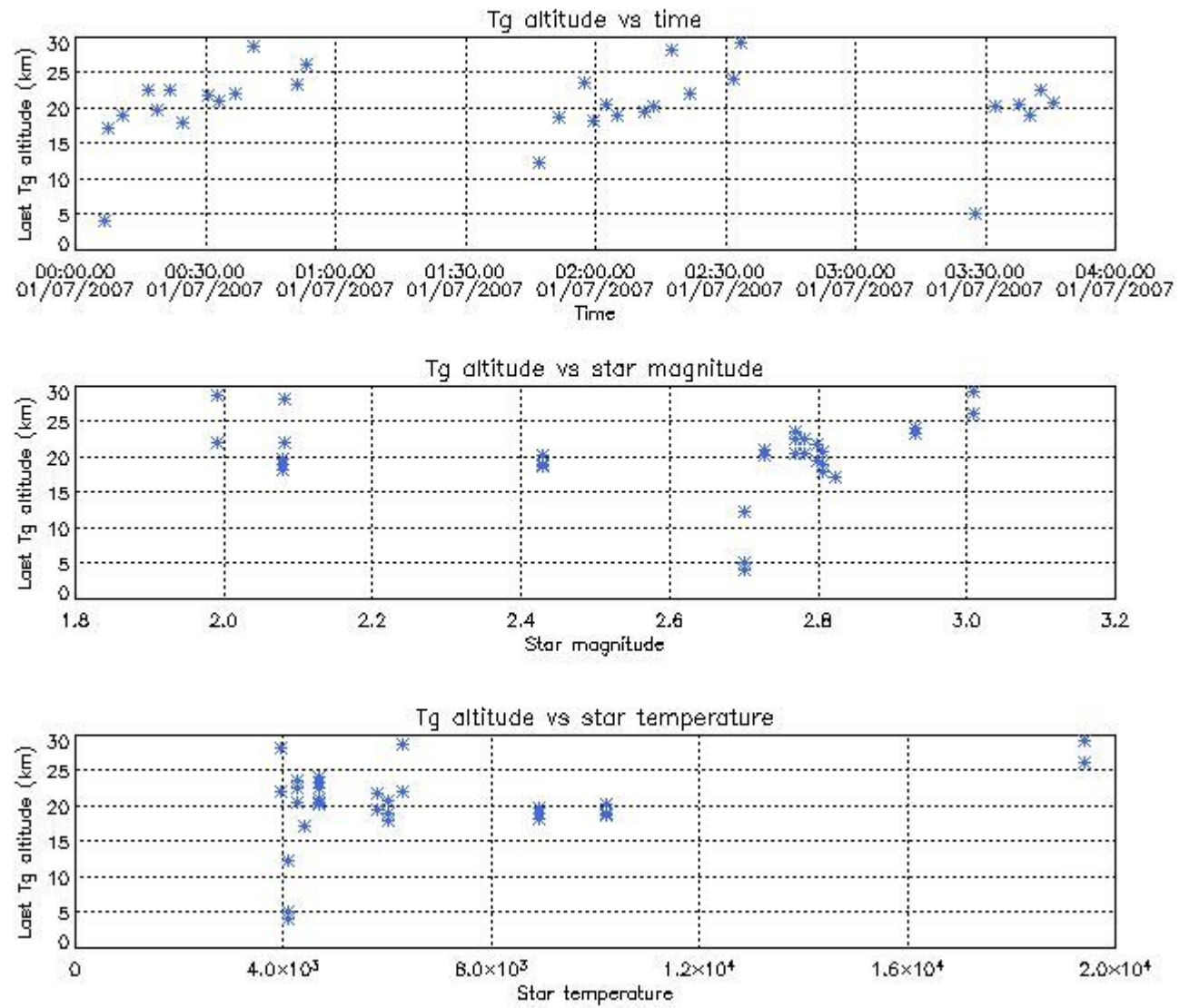
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

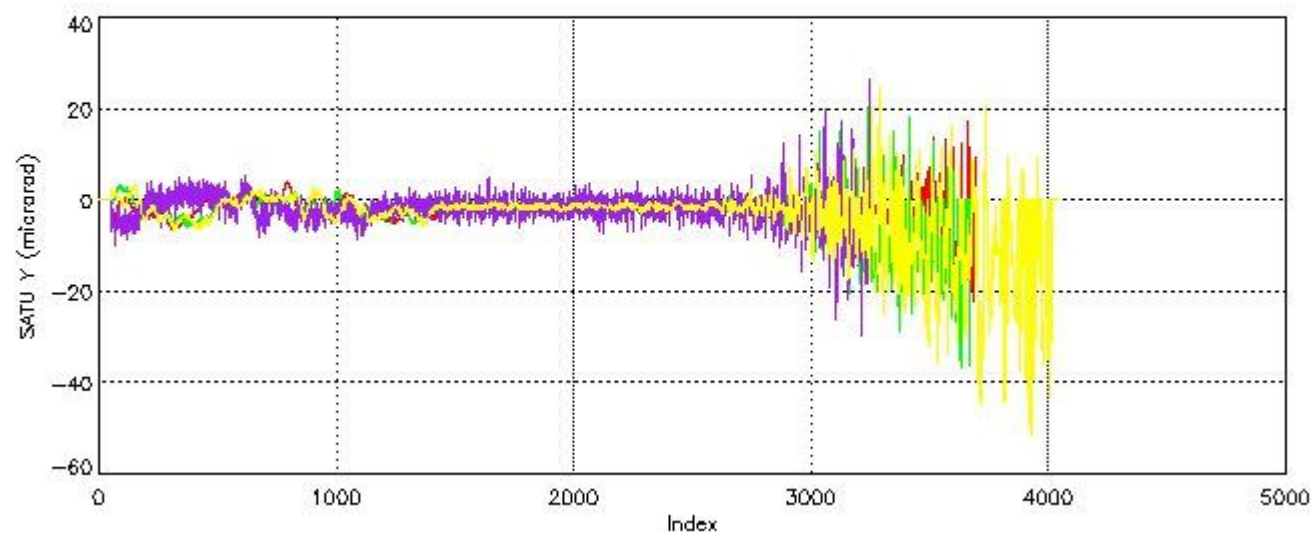
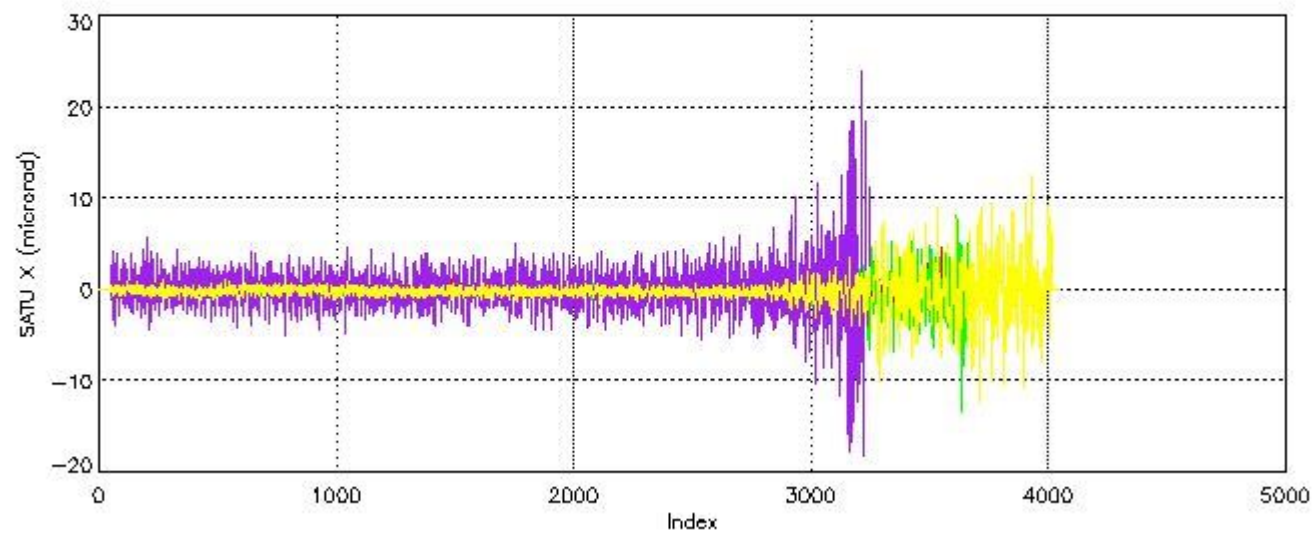


7. Star Acquisition and Tracking Unit (SATU)

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:	-0.028288	-1.2701	0.12678	-1.1944
St. deviation:	0.27864	2.3448	0.75739	2.7274
Maximum:	1.1000	4.9000	5.7000	6.9000
Minimum:	-1.2000	-7.2000	-5.1000	-9.8000

Number of data:	4450.0	4450.0	25700.	25700.
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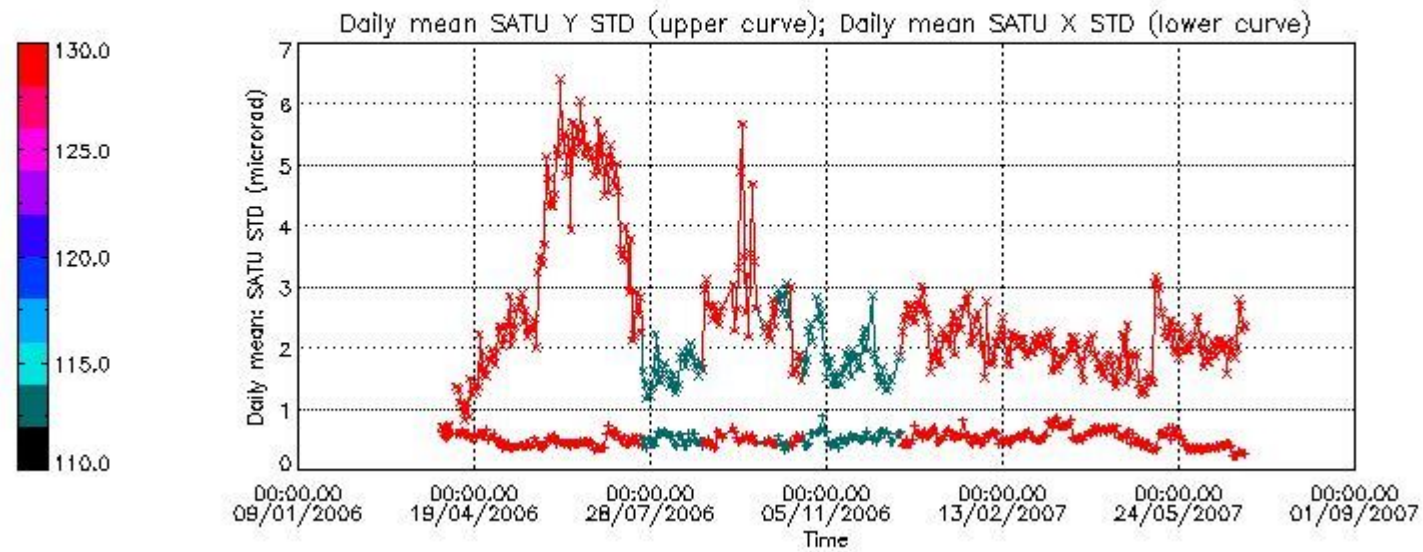
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

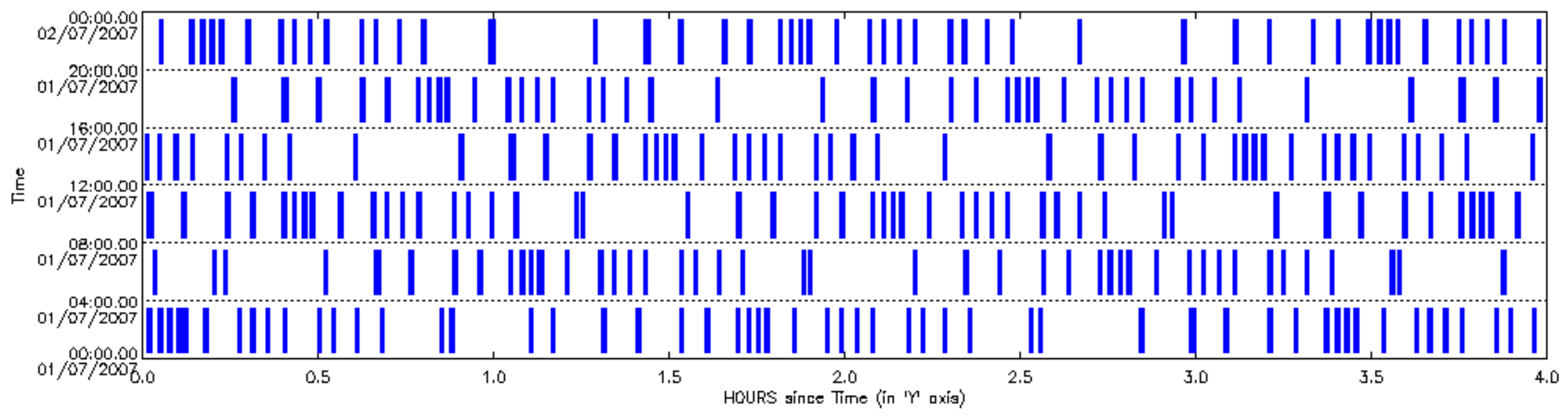
Lower curve: STD of SATU X axis

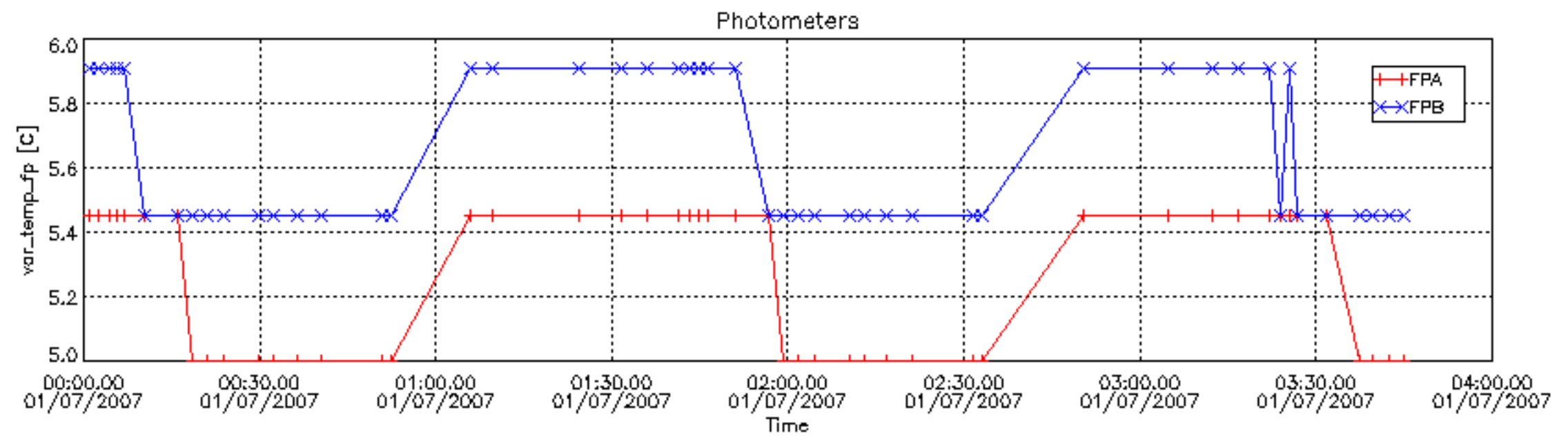
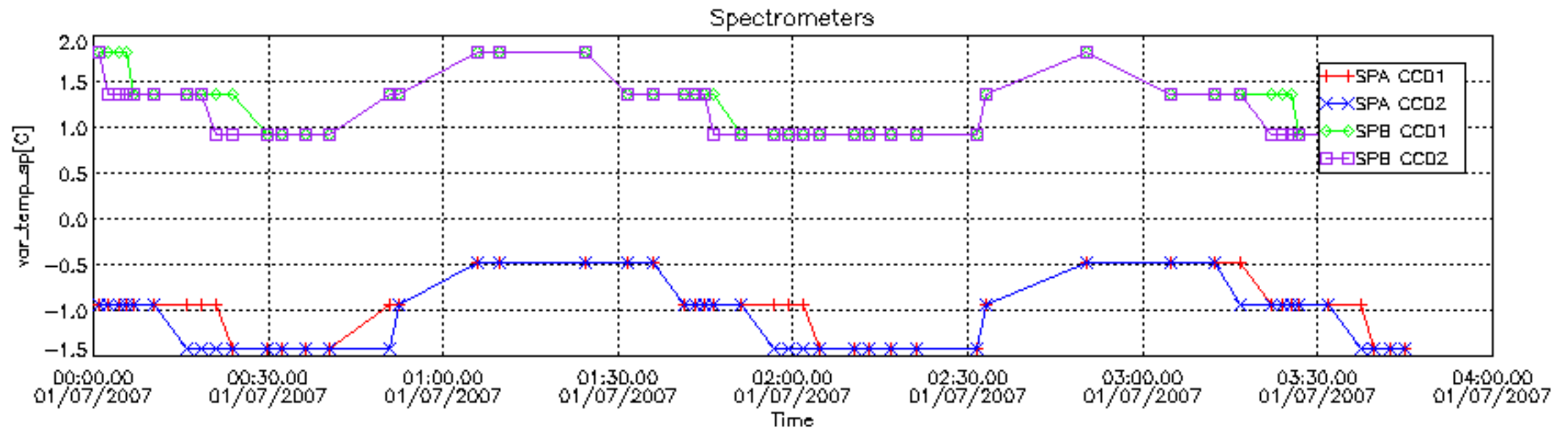


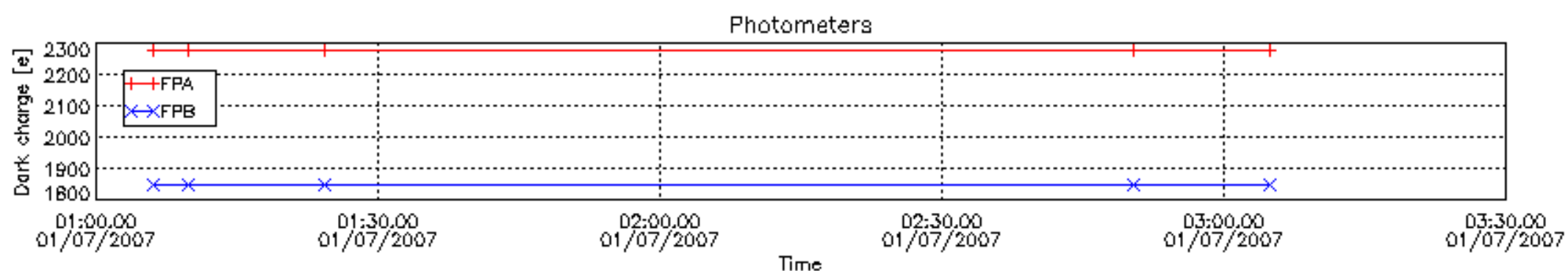
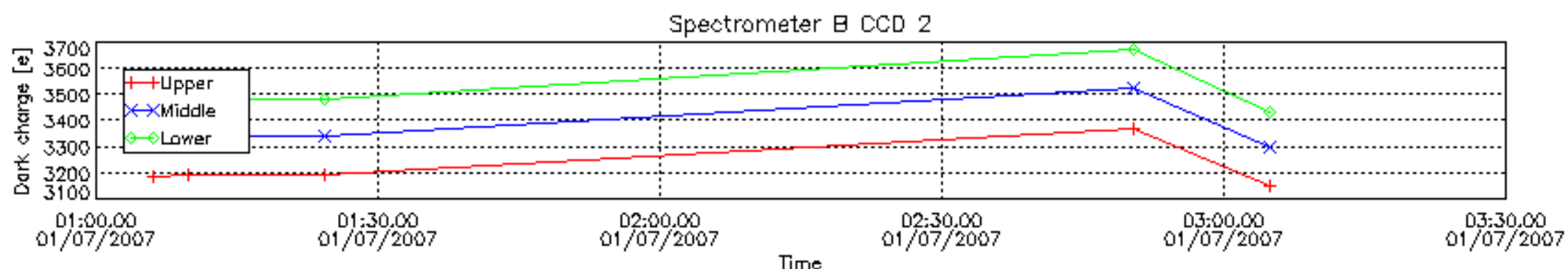
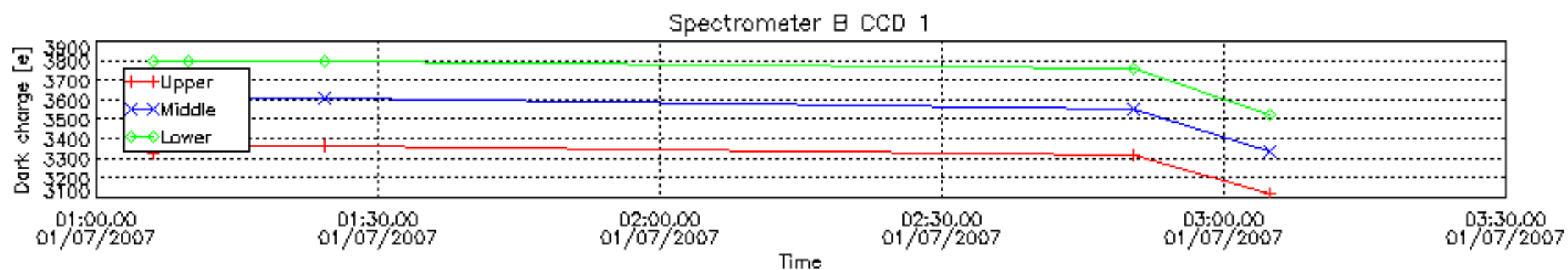
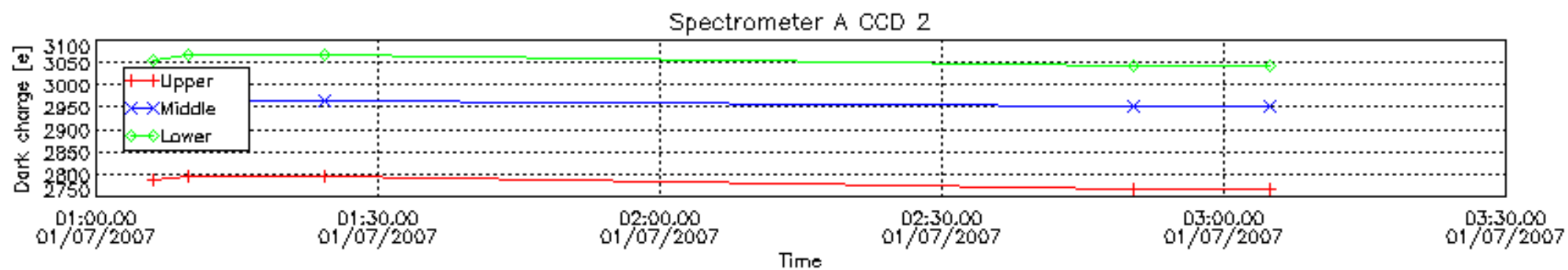
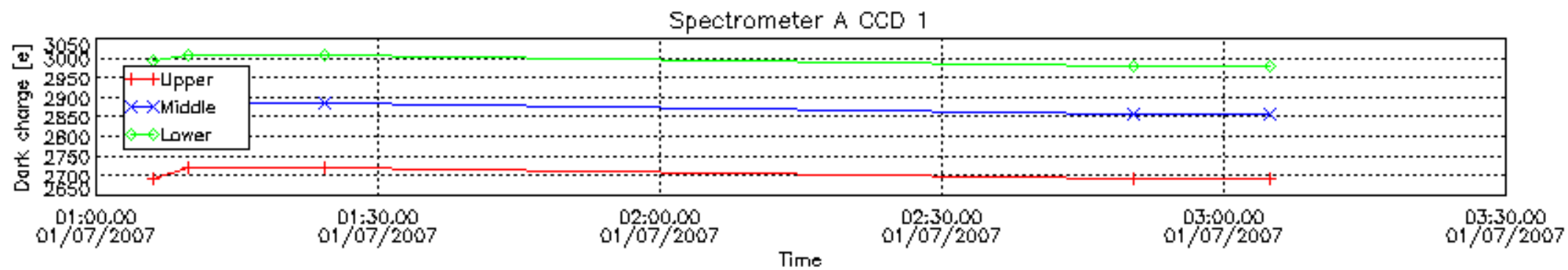
8. Auxiliary Data Files used for the production reported in section 2.4

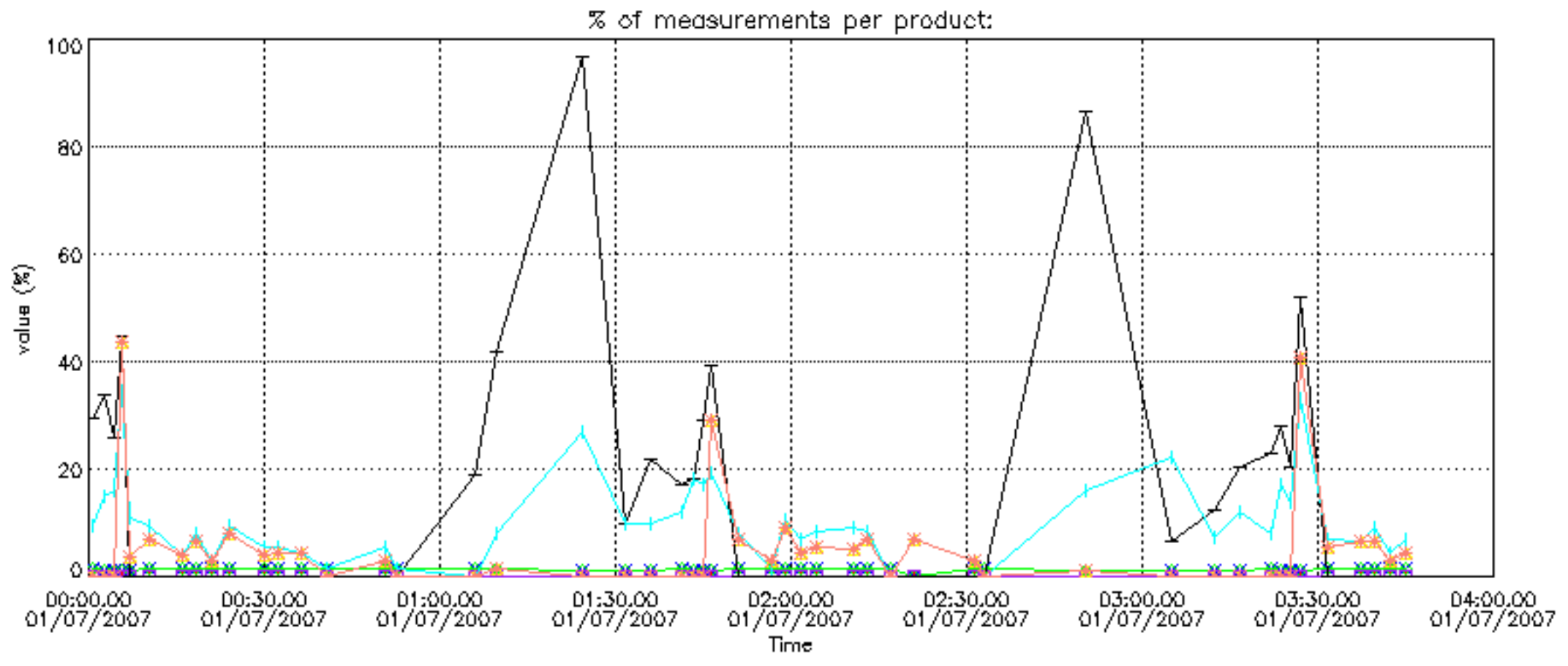
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	01-JUL-2007 00:00:47
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070618_075311_20070617_000000_20100101_000000	1	01-JUL-2007 00:00:47
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	01-JUL-2007 00:00:47
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	01-JUL-2007 00:00:47
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	01-JUL-2007 00:00:47
ECMWF_FILE	AUX_ECF_AXNECM20070630_062112_20070630_150000_20070701_030000	1	01-JUL-2007 00:00:47
ECMWF_FILE	AUX_ECF_AXNECM20070701_012112_20070630_210000_20070701_090000	18	01-JUL-2007 01:09:45
OPTIONAL_ECMWF_FILE	MISSING	1	01-JUL-2007 00:00:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070630_214203_000060572059_00272_27881_3684.N1	1	01-JUL-2007 00:00:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070630_232819_000057382059_00273_27882_3685.N1	18	01-JUL-2007 01:09:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070701_010916_000038262059_00274_27883_3686.N1	35	01-JUL-2007 02:31:25

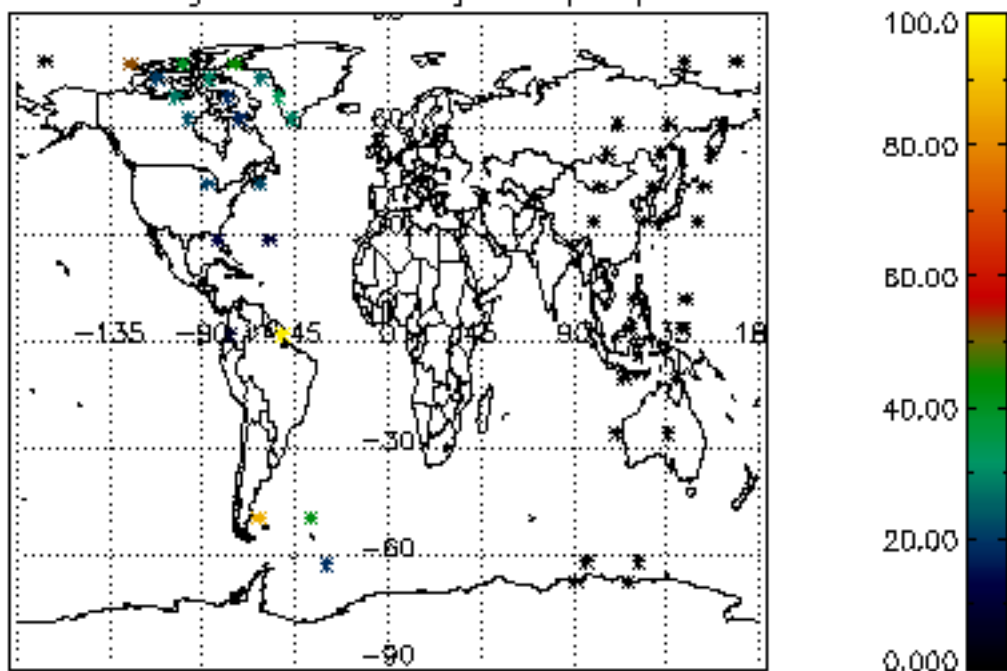




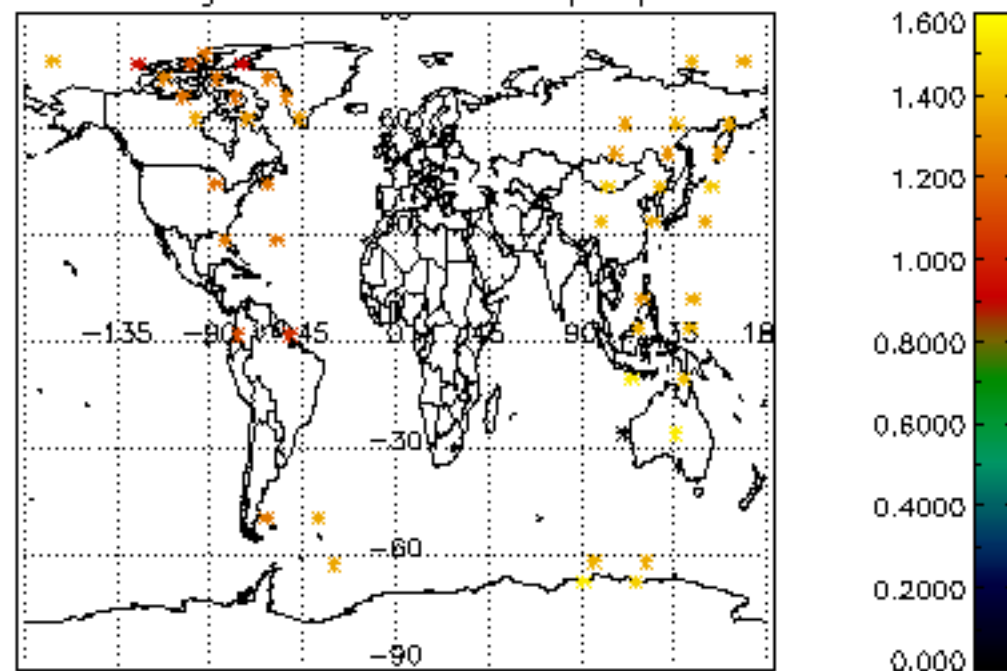




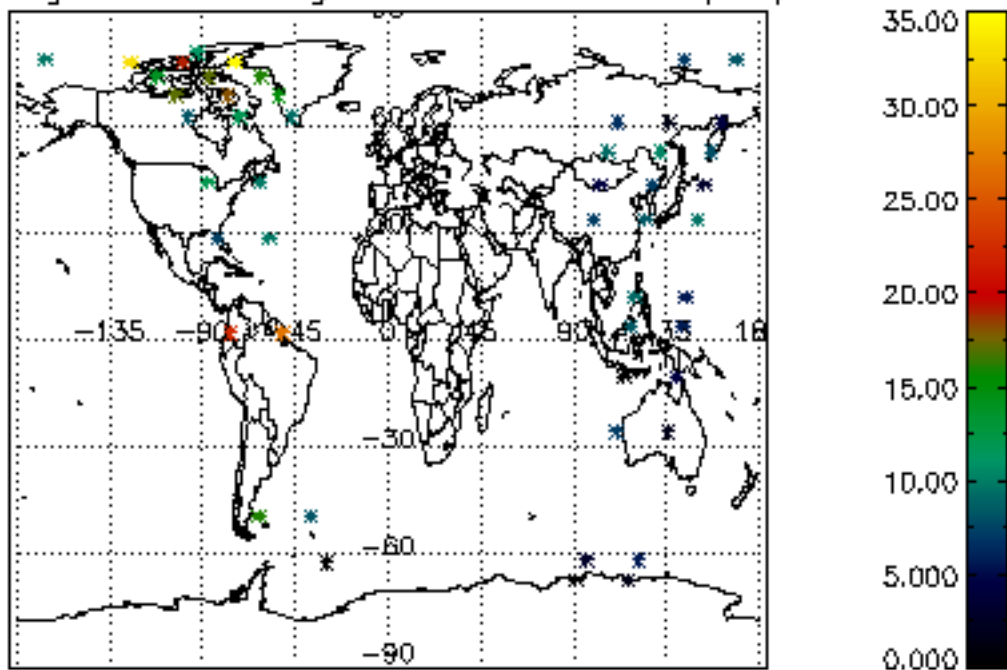
Percentage of cosmic ray hits per profile



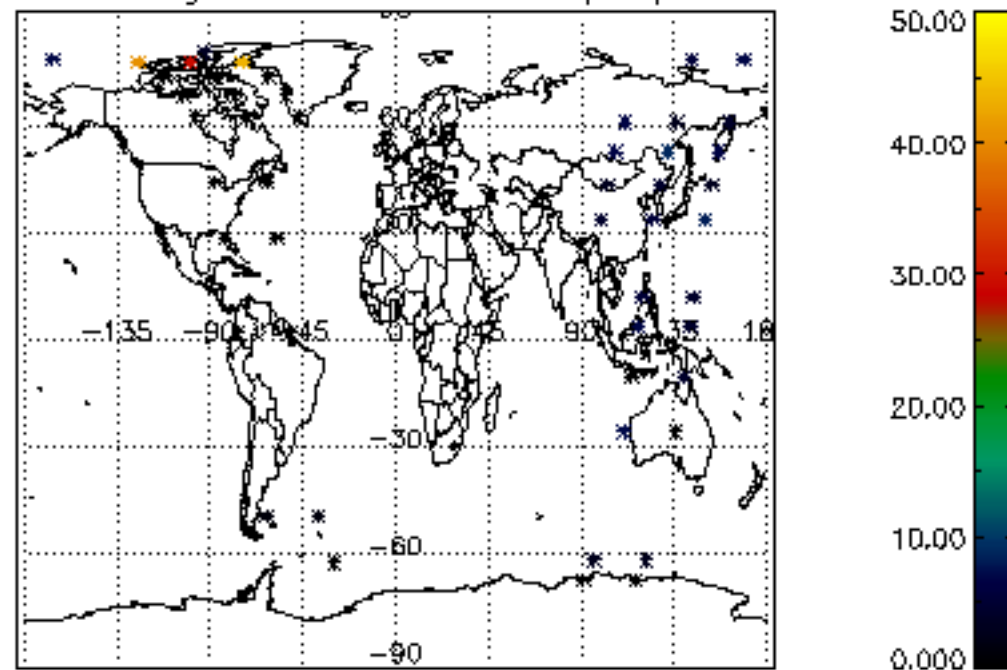
Percentage of datation errors per profile



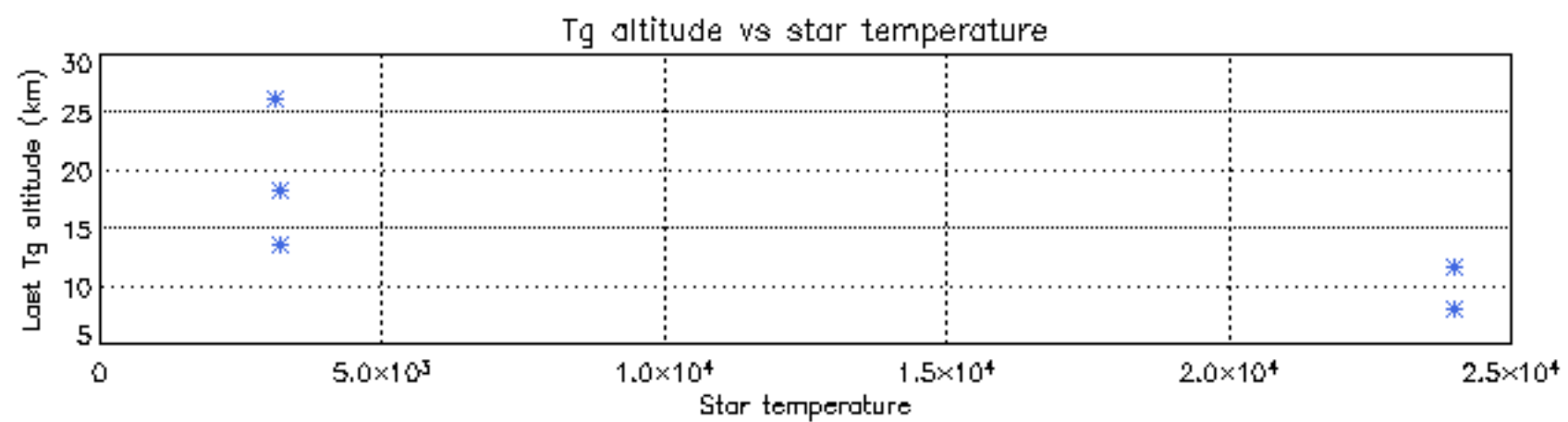
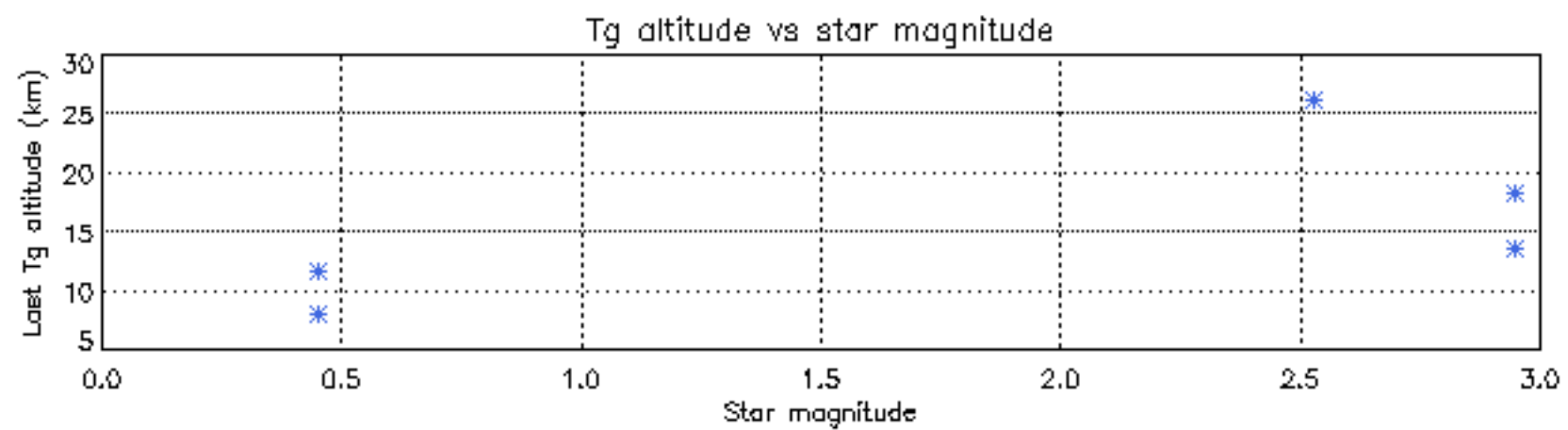
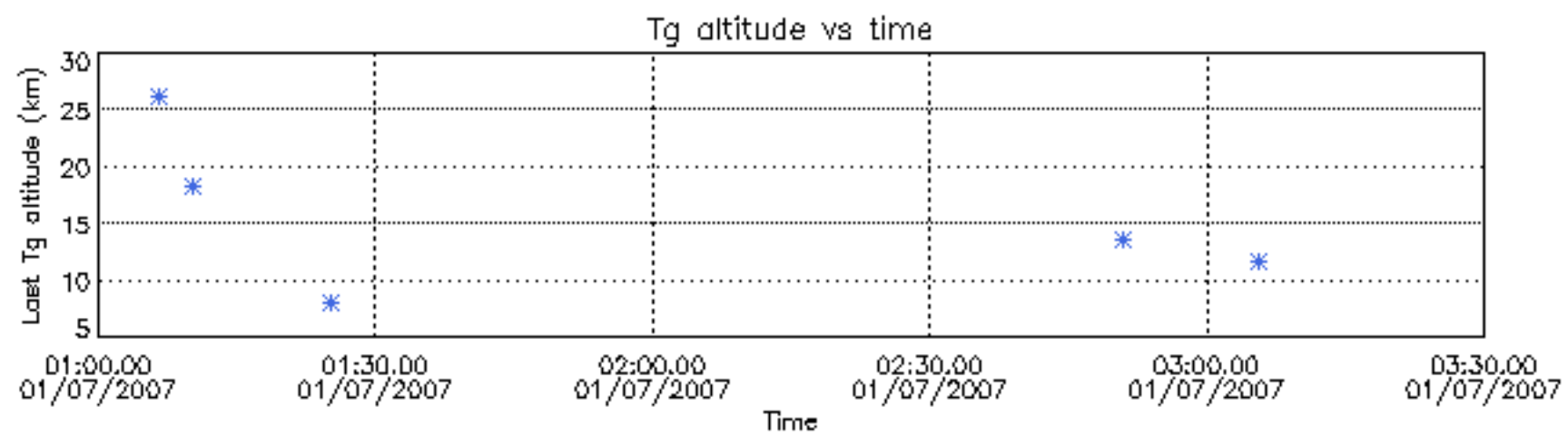
Percentage of star falling outside central band per profile



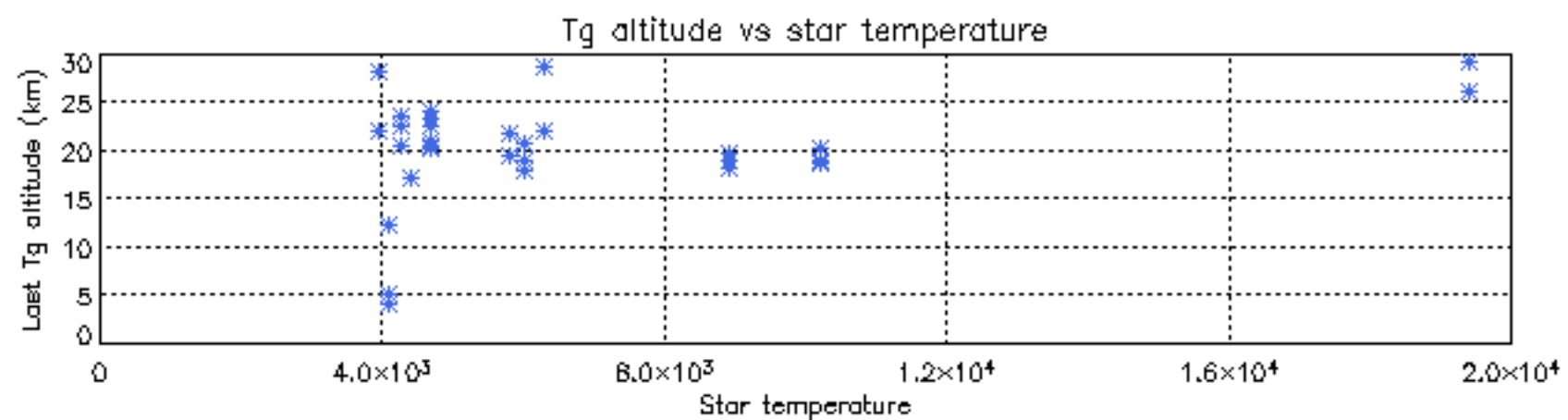
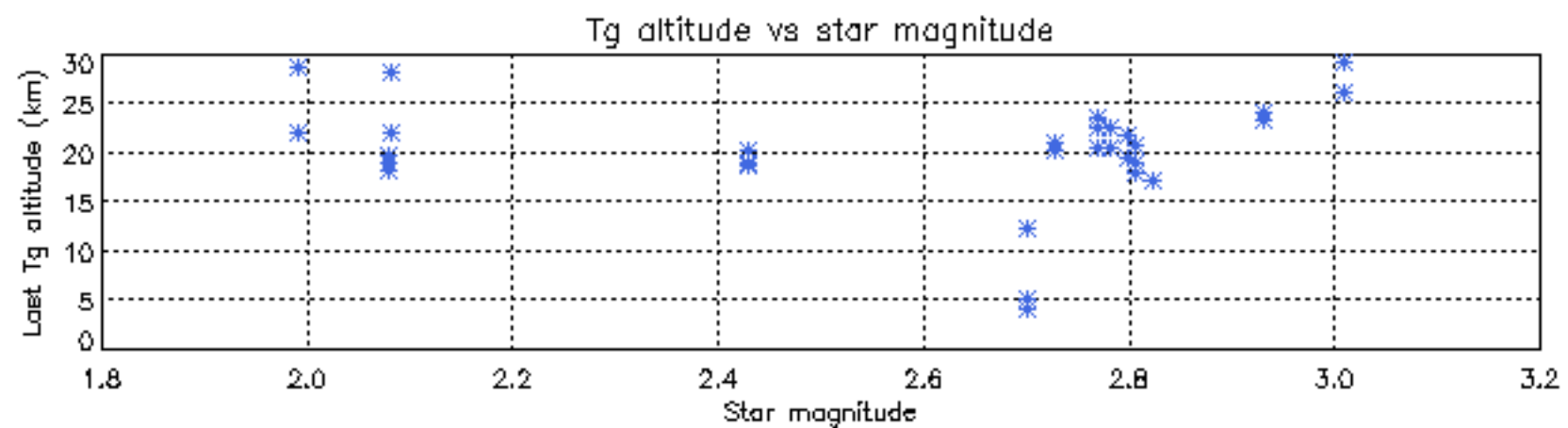
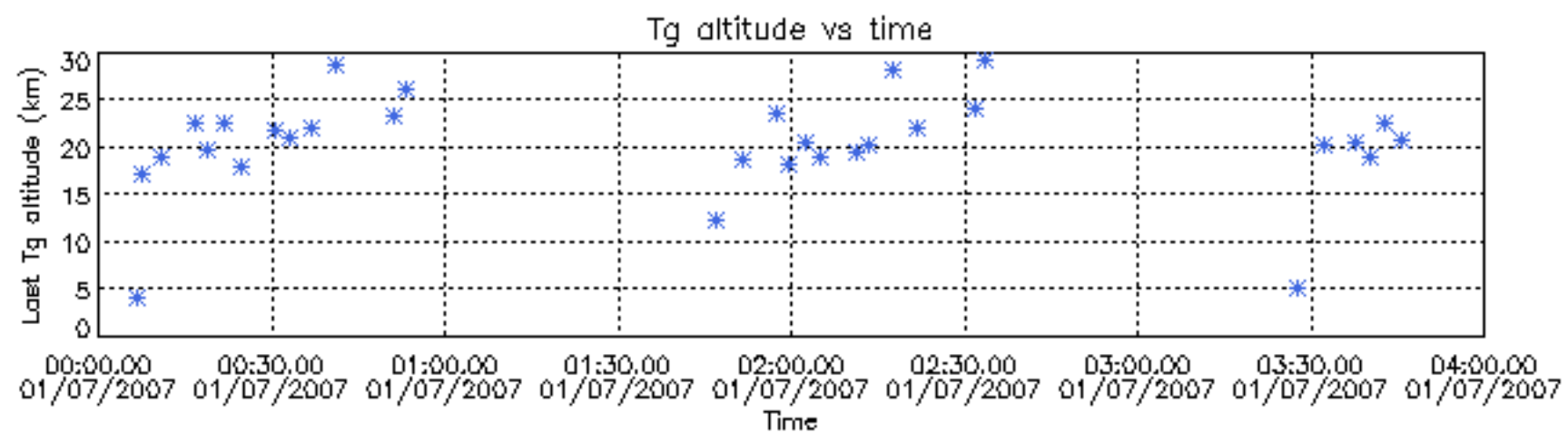
Percentage of saturation errors per profile

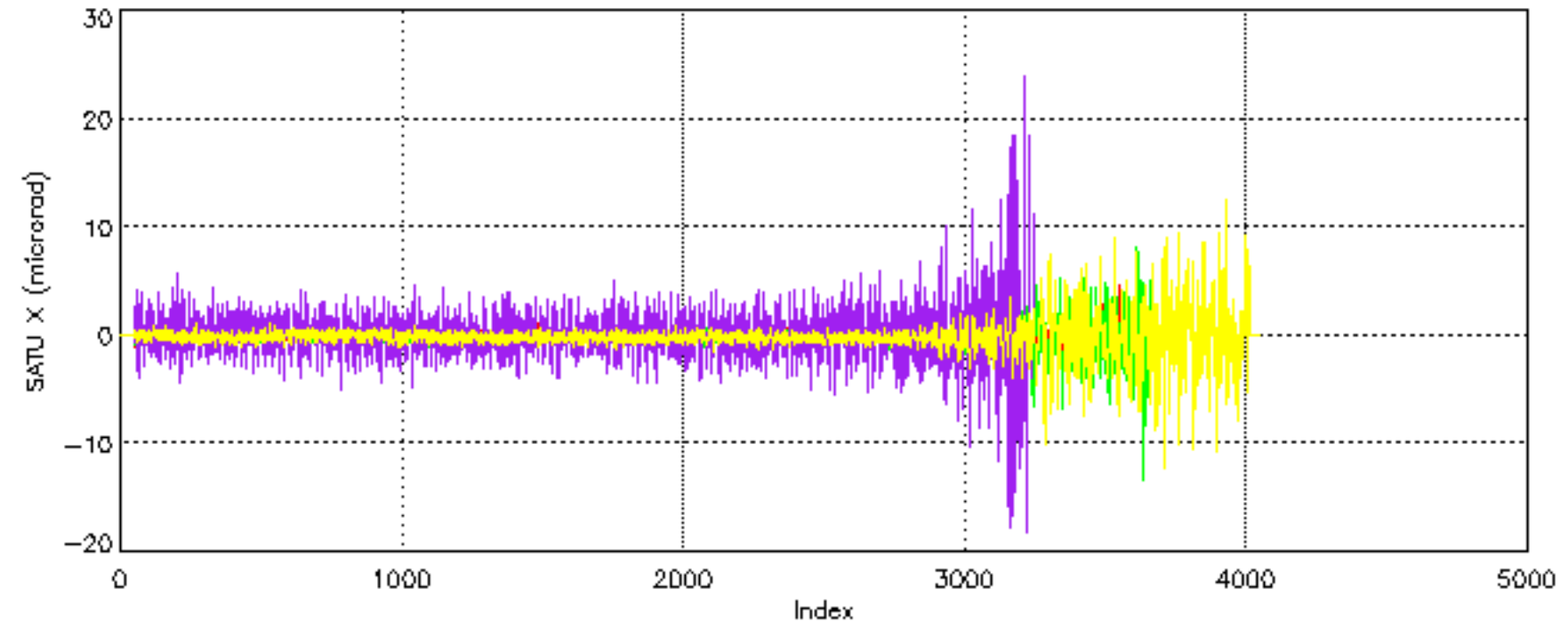


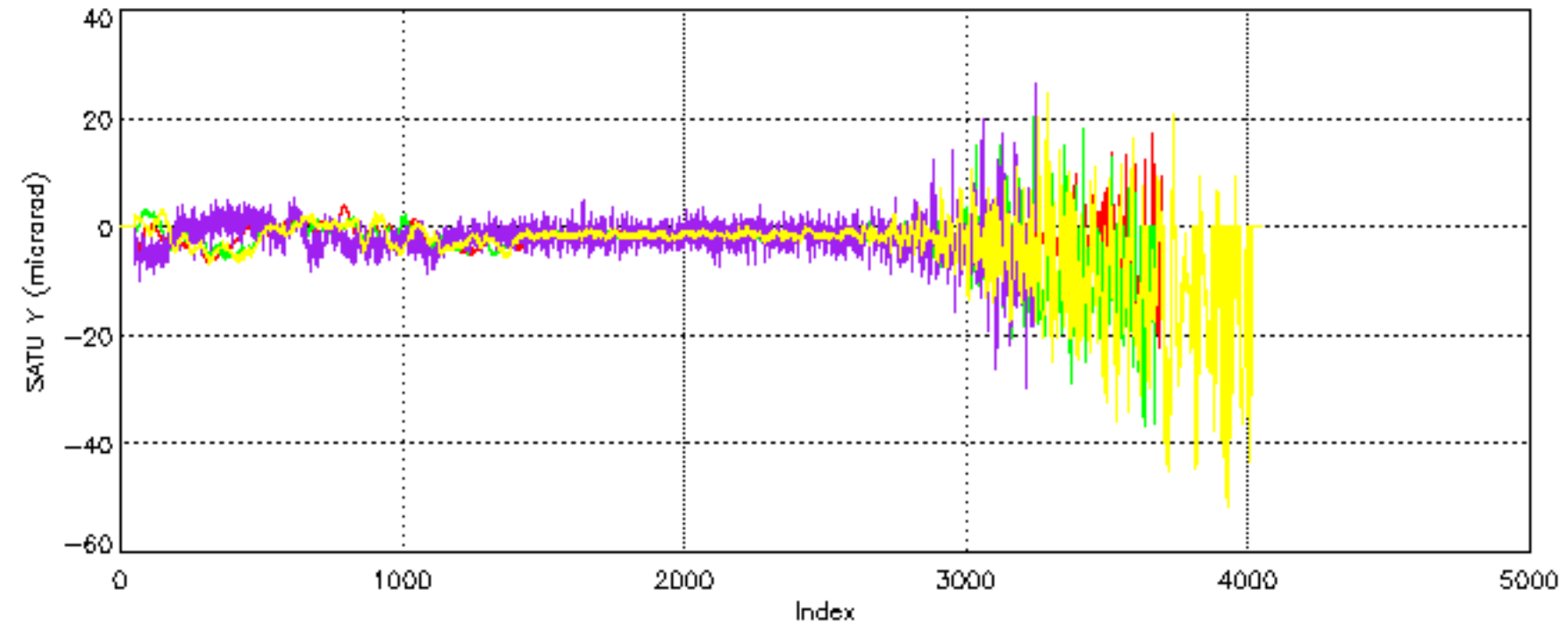
Tangent altitude at which the star is lost

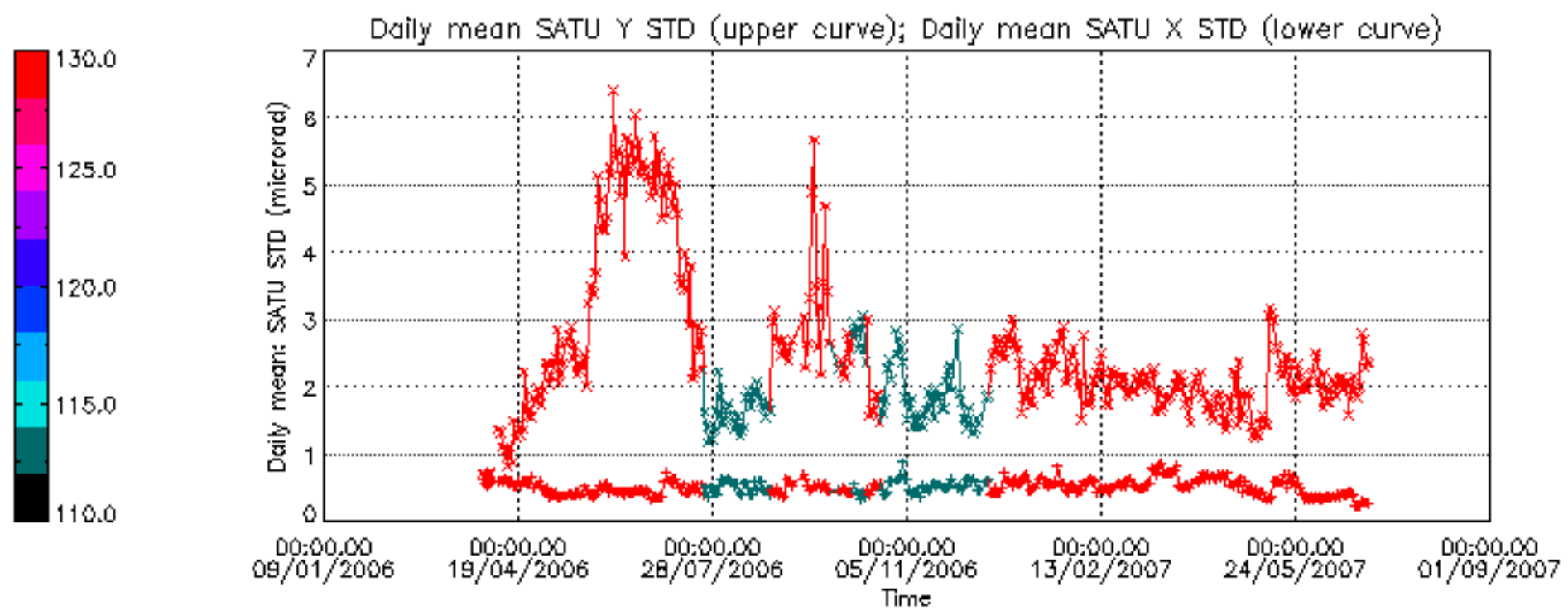


Tangent altitude at which the star is lost









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 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
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 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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 6; 481.1; 01-JUL-2007 03:12:18; Dark ; 40.5; 148; Alp Tuc ; 2.88; 4100;occ; 81; 0;27885
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 8; 1062.3; 01-JUL-2007 03:21:59; Dark ; 37.0; 147; Alp Ara ; 2.88; 26000;occ; 74; 0;27885
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 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
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 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
 13; 1982.2; 01-JUL-2007 05:17:55; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;27886
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 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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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
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12; 1642.7; 01-JUL-2007 06:52:52; Bright; 36.0; 86; 35Eta Oph ; 2.43; 10200;occ; 72; 0;27887
13; 1982.3; 01-JUL-2007 06:58:31; Bright; 36.5; 126; 60Bet Oph ; 2.77; 4250;occ; 73; 0;27887
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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
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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
11; 2952.8; 01-JUL-2007 20:39:29; Bright; 36.0; 119; 14Eta Dra ; 2.73; 4700;occ; 72; 0;27895
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4; 487.6; 01-JUL-2007 21:39:00; Dark ; 41.5; 148; Alp Tuc ; 2.88; 4100;occ; 83; 0;27896
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5; 1064.5; 01-JUL-2007 23:29:13; Dark ; 36.5; 147; Alp Ara ; 2.88; 26000;occ; 73; 0;27897
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 9; 4855.8; 31-JUL-2007 13:45:42; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;28320
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