

GOMOS Daily Report 12-DEC-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	14DEC2007 05:52:27
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (12DEC2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (13DEC2007 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)

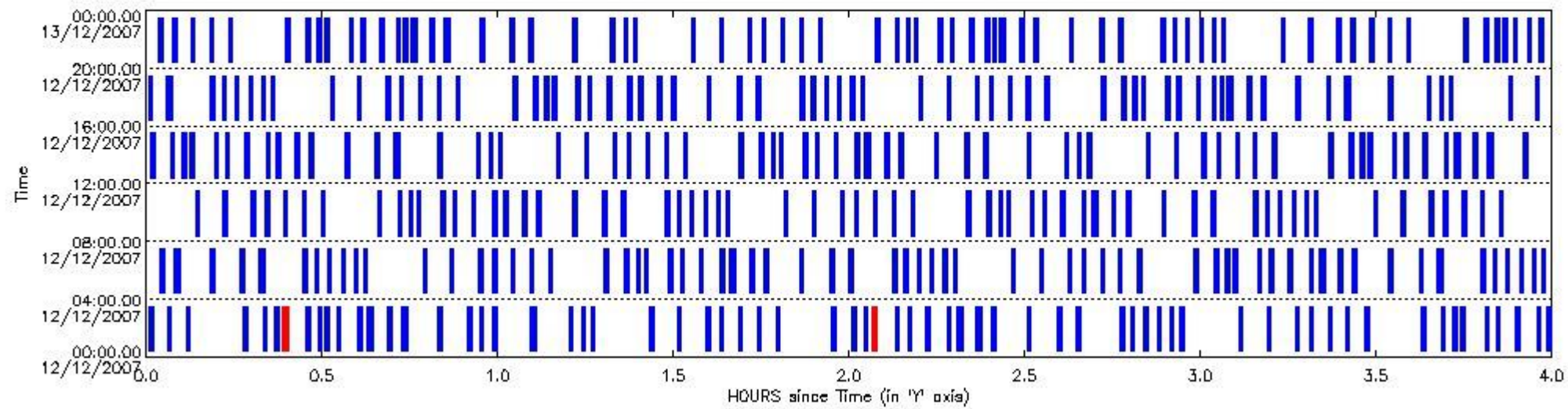
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 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)

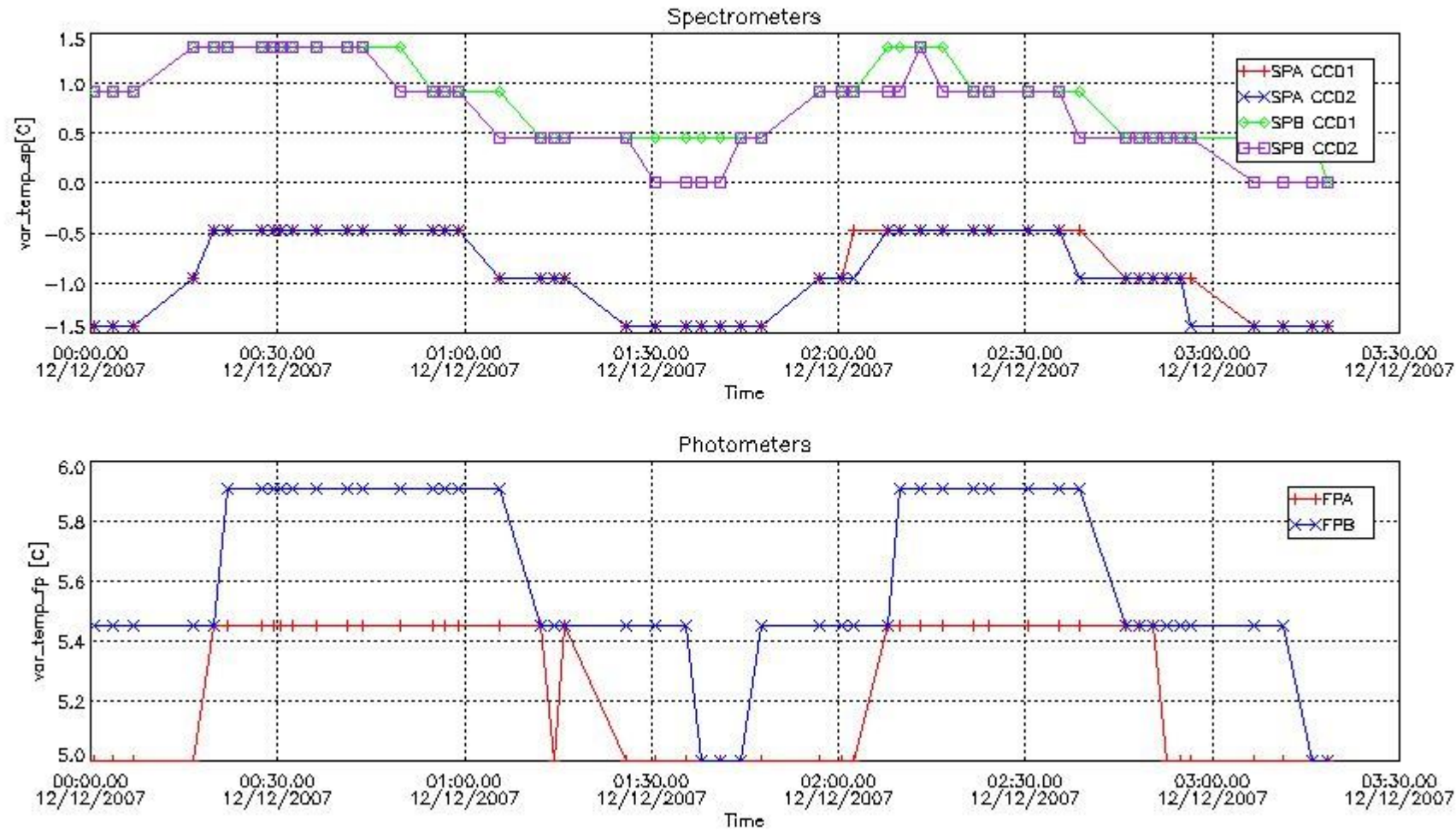
UTC start time	Star name	Star ID	Orbit
12-DEC-2007 00:23:13	lotCen	123	30230
12-DEC-2007 02:03:49	lotCen	123	30231

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_1PNPDE20071212_000032_000000352064_00116_30230_3259.N1	12-DEC-2007 00:00:32	Bright	35.000	180	27Gam Boo	3.0400	8000.0	70	30230	No
2	GOM_TRA_1PNPDE20071212_000340_000000352064_00116_30230_3260.N1	12-DEC-2007 00:03:40	Bright	35.000	83		2.3780	11000.	70	30230	No
3	GOM_TRA_1PNPDE20071212_000652_000000392064_00116_30230_3261.N1	12-DEC-2007 00:06:52	Bright	38.500	111	8Eta Boo	2.6800	6000.0	77	30230	No
4	GOM_TRA_1PNPDE20071212_001624_000000482064_00116_30230_3262.N1	12-DEC-2007 00:16:24	Twilight	48.000	15	67Alp Vir	0.97600	28000.	96	30230	No
5	GOM_TRA_1PNPDE20071212_001953_000000442064_00116_30230_3373.N1	12-DEC-2007 00:19:53	Twilight	43.500	169	46Gam Hya	2.9910	4700.0	87	30230	No
6	GOM_TRA_1PNPDE20071212_002151_000000422064_00116_30230_3374.N1	12-DEC-2007 00:21:51	Twilight	41.500	54	5The Cen	2.0550	4500.0	83	30230	No
7	GOM_TRA_1PNPDE20071212_002719_000000392064_00116_30230_3375.N1	12-DEC-2007 00:27:19	Dark	38.500	64	Gam Cen	2.2000	10600.	77	30230	No
8	GOM_TRA_1PNPDE20071212_002921_000000392064_00117_30231_3376.N1	12-DEC-2007 00:29:21	Dark	39.000	20	Bet Cru	1.2530	30000.	78	30231	No
9	GOM_TRA_1PNPDE20071212_003032_000000402064_00117_30231_3377.N1	12-DEC-2007 00:30:32	Dark	39.500	12	Alp1Cru	0.77500	30000.	79	30231	No

10	GOM_TRA_1PNPDE20071212_003229_000000452064_00117_30231_3378.N1	12-DEC-2007 00:32:29	Dark	44.500	113	Mu Vel	2.6920	5000.0	89	30231	No
11	GOM_TRA_1PNPDE20071212_003610_000000382064_00117_30231_3379.N1	12-DEC-2007 00:36:10	Dark	38.000	29	Bet Car	1.6720	10200.	76	30231	No
12	GOM_TRA_1PNPDE20071212_004106_000000462064_00117_30231_3380.N1	12-DEC-2007 00:41:06	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	30231	No
13	GOM_TRA_1PNPDE20071212_004335_000000552064_00117_30231_3381.N1	12-DEC-2007 00:43:35	Dark	55.000	2	Alp Car	-0.73600	7000.0	110	30231	No
14	GOM_TRA_1PNPDE20071212_004943_000000442064_00117_30231_3382.N1	12-DEC-2007 00:49:43	Straylight	43.500	108	Alp Col	2.6520	15200.	87	30231	No
15	GOM_TRA_1PNPDE20071212_005453_000000472064_00117_30231_3383.N1	12-DEC-2007 00:54:53	Straylight	47.000	101	11Alp Lep	2.5820	7000.0	94	30231	No
16	GOM_TRA_1PNPDE20071212_005655_000000412064_00117_30231_3384.N1	12-DEC-2007 00:56:55	Straylight	41.000	165	34Gam Eri	2.9500	3200.0	82	30231	No
17	GOM_TRA_1PNPDE20071212_005904_000000442064_00117_30231_3385.N1	12-DEC-2007 00:59:04	Straylight	44.000	128	67Bet Eri	2.7840	9700.0	88	30231	No
18	GOM_TRA_1PNPDE20071212_010533_000000562064_00117_30231_3386.N1	12-DEC-2007 01:05:33	Twilight	56.000	13	87Alp Tau	0.86700	3800.0	112	30231	No
19	GOM_TRA_1PNPDE20071212_011208_000000362064_00117_30231_3387.N1	12-DEC-2007 01:12:08	Bright	35.500	149	45Eps Per	2.8880	30000.	71	30231	No
20	GOM_TRA_1PNPDE20071212_011417_000000352064_00117_30231_3388.N1	12-DEC-2007 01:14:17	Bright	34.500	175	39Del Per	3.0100	19400.	69	30231	No
21	GOM_TRA_1PNPDE20071212_011556_000000352064_00117_30231_3389.N1	12-DEC-2007 01:15:56	Bright	35.000	160	23Gam Per	2.9300	4700.0	70	30231	No
22	GOM_TRA_1PNPDE20071212_012558_000000362064_00117_30231_3390.N1	12-DEC-2007 01:25:58	Bright	36.000	49	1Alp UMi	1.9900	6300.0	72	30231	No
23	GOM_TRA_1PNPDE20071212_013042_000000382064_00117_30231_3391.N1	12-DEC-2007 01:30:42	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	30231	No
24	GOM_TRA_1PNPDE20071212_013532_000000412064_00117_30231_3392.N1	12-DEC-2007 01:35:32	Bright	40.500	32	77Eps UMa	1.7630	11000.	81	30231	No
25	GOM_TRA_1PNPDE20071212_013757_000000402064_00117_30231_3393.N1	12-DEC-2007 01:37:57	Bright	39.500	39	85Eta UMa	1.8540	24000.	79	30231	No
26	GOM_TRA_1PNPDE20071212_014108_000000362064_00117_30231_3394.N1	12-DEC-2007 01:41:08	Bright	36.000	180	27Gam Boo	3.0400	8000.0	72	30231	No
27	GOM_TRA_1PNPDE20071212_014416_000000352064_00117_30231_3395.N1	12-DEC-2007 01:44:16	Bright	34.500	83		2.3780	11000.	69	30231	No
28	GOM_TRA_1PNPDE20071212_014728_000000382064_00117_30231_3396.N1	12-DEC-2007 01:47:28	Bright	37.500	111	8Eta Boo	2.6800	6000.0	75	30231	No
29	GOM_TRA_1PNPDE20071212_015701_000000482064_00117_30231_3530.N1	12-DEC-2007 01:57:01	Twilight	47.500	15	67Alp Vir	0.97600	28000.	95	30231	No
30	GOM_TRA_1PNPDE20071212_020029_000000422064_00117_30231_3531.N1	12-DEC-2007 02:00:29	Twilight	42.000	169	46Gam Hya	2.9910	4700.0	84	30231	No
31	GOM_TRA_1PNPDE20071212_020228_000000452064_00117_30231_3532.N1	12-DEC-2007 02:02:28	Twilight	44.500	54	5The Cen	2.0550	4500.0	89	30231	No
32	GOM_TRA_1PNPDE20071212_020755_000000392064_00117_30231_3533.N1	12-DEC-2007 02:07:55	Dark	39.000	64	Gam Cen	2.2000	10600.	78	30231	No
33	GOM_TRA_1PNPDE20071212_020957_000000412064_00118_30232_3534.N1	12-DEC-2007 02:09:57	Dark	40.500	20	Bet Cru	1.2530	30000.	81	30232	No
34	GOM_TRA_1PNPDE20071212_021306_000000442064_00118_30232_3535.N1	12-DEC-2007 02:13:06	Dark	44.000	113	Mu Vel	2.6920	5000.0	88	30232	No
35	GOM_TRA_1PNPDE20071212_021646_000000372064_00118_30232_3536.N1	12-DEC-2007 02:16:46	Dark	37.000	29	Bet Car	1.6720	10200.	74	30232	No
36	GOM_TRA_1PNPDE20071212_022143_000000522064_00118_30232_3537.N1	12-DEC-2007 02:21:43	Dark	52.000	34	Gam2Vel	1.7930	23000.	104	30232	No
37	GOM_TRA_1PNPDE20071212_022411_000000562064_00118_30232_3538.N1	12-DEC-2007 02:24:11	Dark	56.000	2	Alp Car	-0.73600	7000.0	112	30232	No
38	GOM_TRA_1PNPDE20071212_023020_000000432064_00118_30232_3539.N1	12-DEC-2007 02:30:20	Straylight	43.000	108	Alp Col	2.6520	15200.	86	30232	No
39	GOM_TRA_1PNPDE20071212_023529_000000452064_00118_30232_3540.N1	12-DEC-2007 02:35:29	Straylight	44.500	101	11Alp Lep	2.5820	7000.0	89	30232	No
40	GOM_TRA_1PNPDE20071212_023841_000000482064_00118_30232_3541.N1	12-DEC-2007 02:38:41	Straylight	48.000	7	19Bet Ori	0.10000	14000.	96	30232	No
41	GOM_TRA_1PNPDE20071212_024609_000000522064_00118_30232_3542.N1	12-DEC-2007 02:46:09	Twilight	51.500	13	87Alp Tau	0.86700	3800.0	103	30232	No
42	GOM_TRA_1PNPDE20071212_024811_000000372064_00118_30232_3543.N1	12-DEC-2007 02:48:11	Bright	36.500	146	25Eta Tau	2.8730	15200.	73	30232	No
43	GOM_TRA_1PNPDE20071212_025024_000000352064_00118_30232_3544.N1	12-DEC-2007 02:50:24	Bright	35.000	150	44Zet Per	2.8900	28000.	70	30232	No
44	GOM_TRA_1PNPDE20071212_025244_000000362064_00118_30232_3545.N1	12-DEC-2007 02:52:44	Bright	36.000	149	45Eps Per	2.8880	30000.	72	30232	No
45	GOM_TRA_1PNPDE20071212_025453_000000342064_00118_30232_3546.N1	12-DEC-2007 02:54:53	Bright	34.000	175	39Del Per	3.0100	19400.	68	30232	No
46	GOM_TRA_1PNPDE20071212_025632_000000362064_00118_30232_3547.N1	12-DEC-2007 02:56:32	Bright	35.500	160	23Gam Per	2.9300	4700.0	71	30232	No
47	GOM_TRA_1PNPDE20071212_030634_000000342064_00118_30232_3548.N1	12-DEC-2007 03:06:34	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	30232	No
48	GOM_TRA_1PNPDE20071212_031118_000000362064_00118_30232_3706.N1	12-DEC-2007 03:11:18	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	30232	No
49	GOM_TRA_1PNPDE20071212_031607_000000422064_00118_30232_3707.N1	12-DEC-2007 03:16:07	Bright	42.000	32	77Eps UMa	1.7630	11000.	84	30232	No
50	GOM_TRA_1PNPDE20071212_031833_000000402064_00118_30232_3708.N1	12-DEC-2007 03:18:33	Bright	39.500	39	85Eta UMa	1.8540	24000.	79	30232	No

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



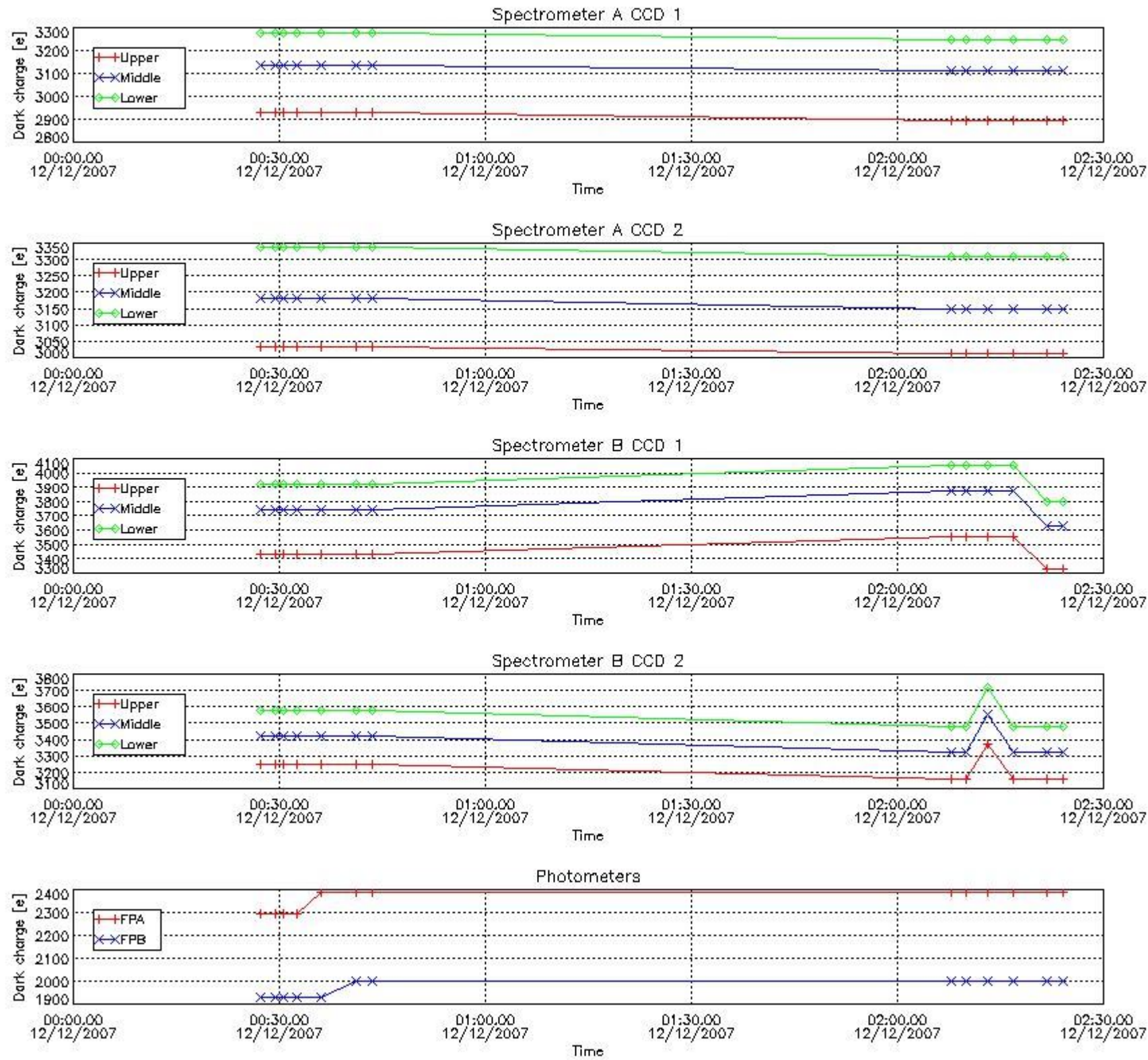
4. Overview of dark signal processing per product

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



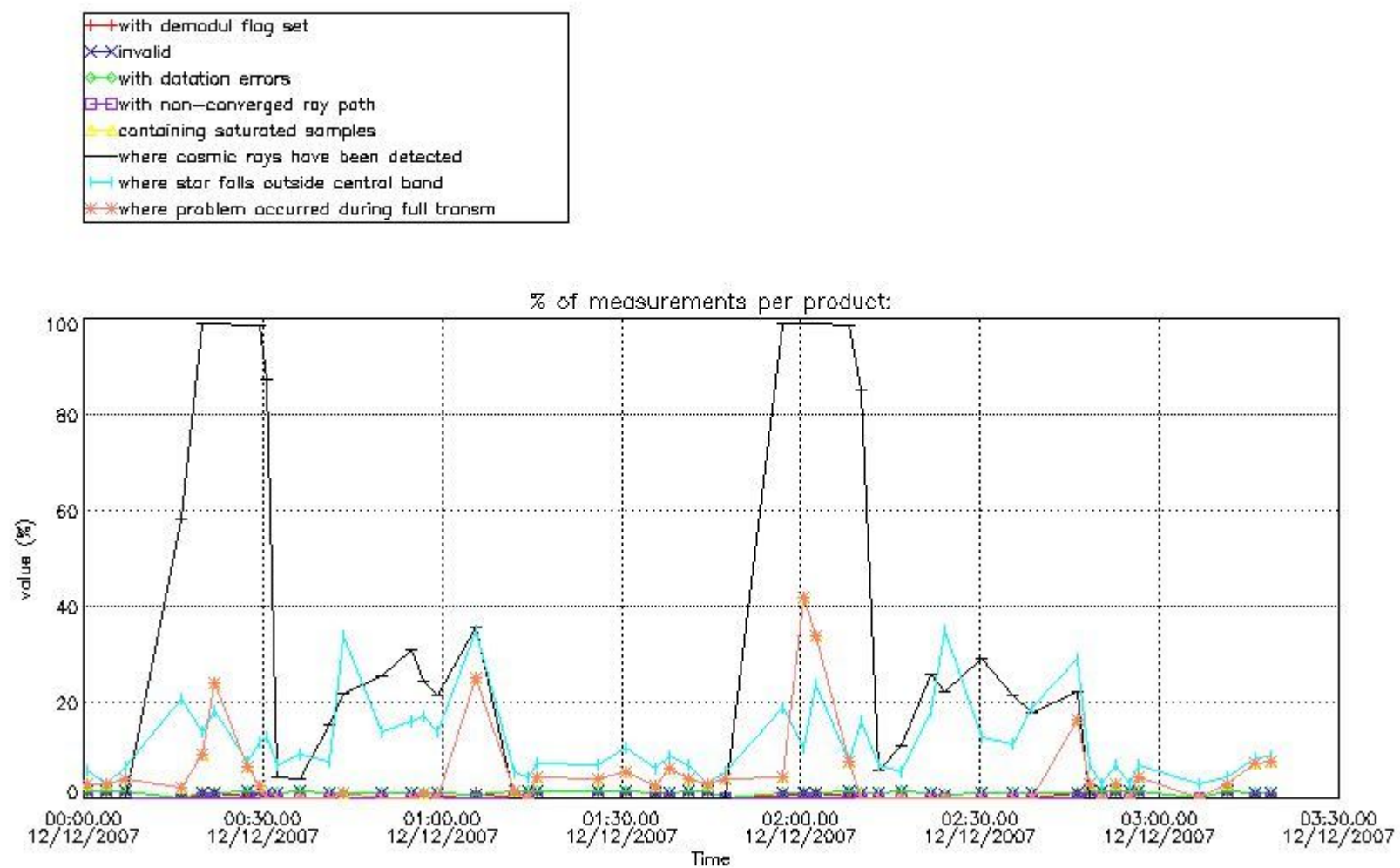
5. Demodulation flag and quality information monitoring

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.

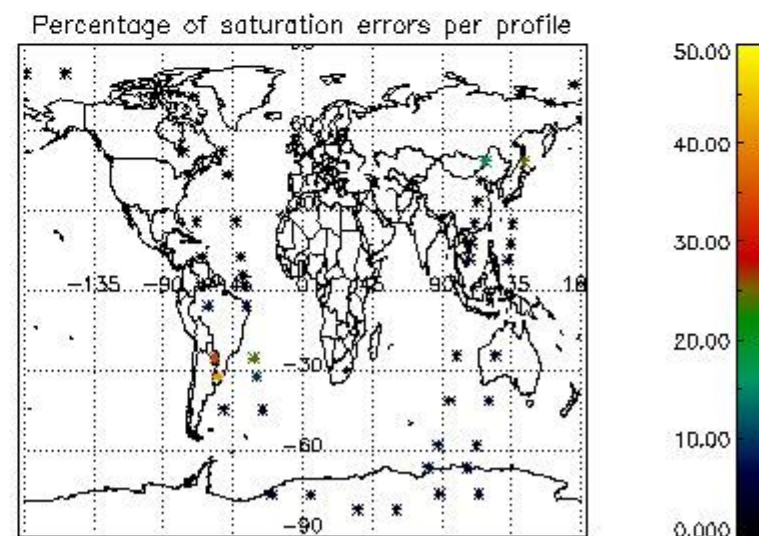
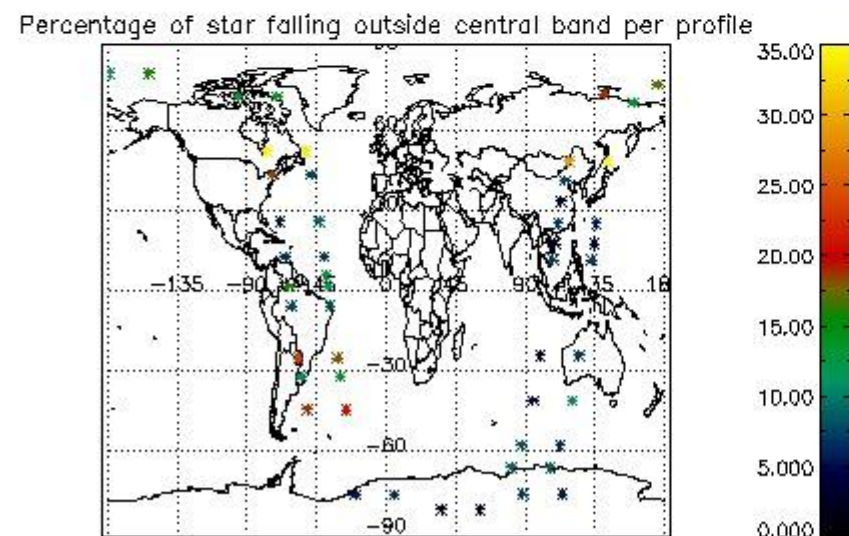
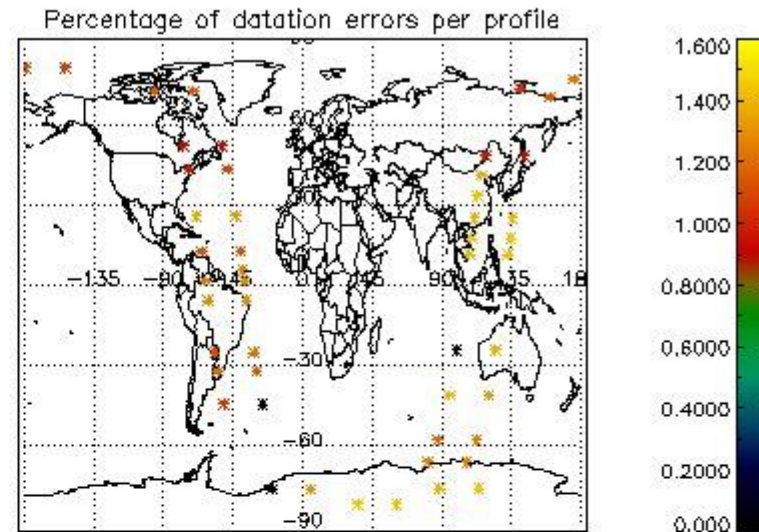
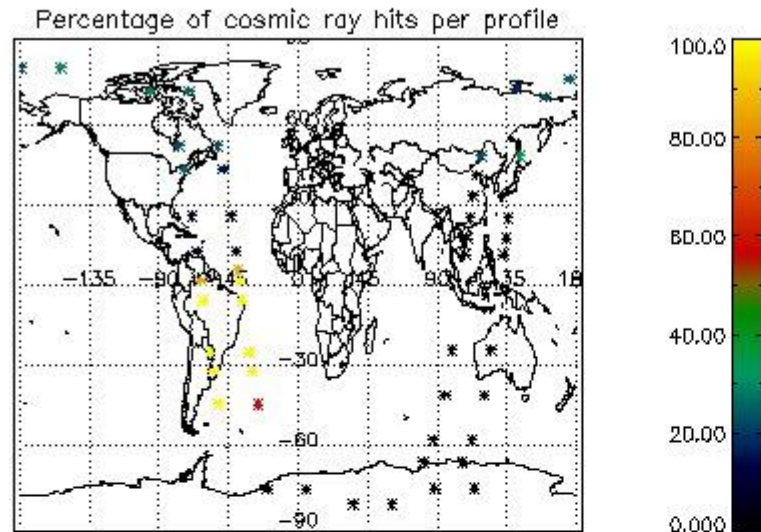
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	36.0000 %
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)



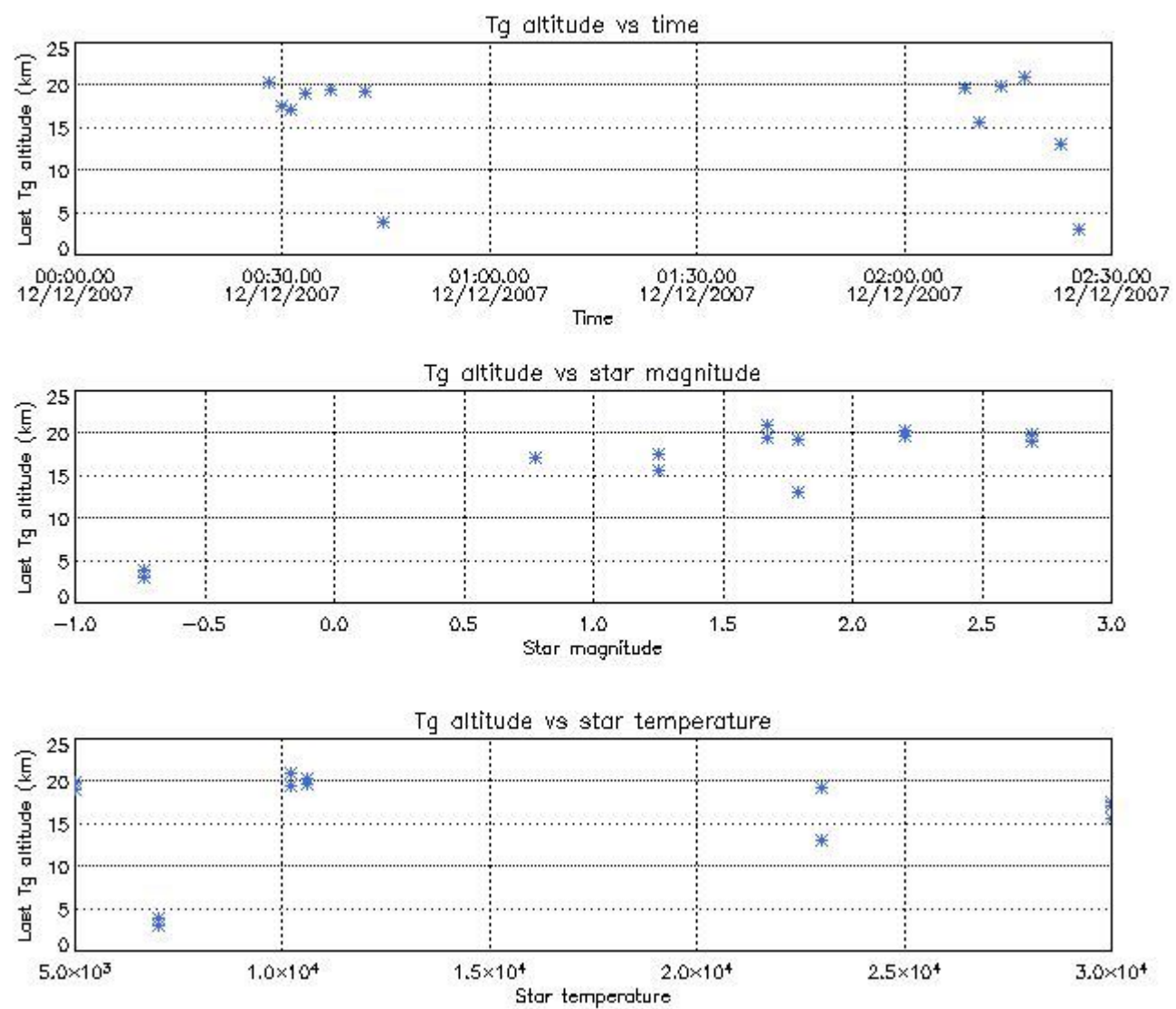
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.027	22.059	14.029
St. deviation:	5.9630	1.9456	3.0286
Maximum:	20.936	26.327	17.272
Minimum:	3.0831	18.950	10.255
Number of data:	13.000	22.000	4.0000

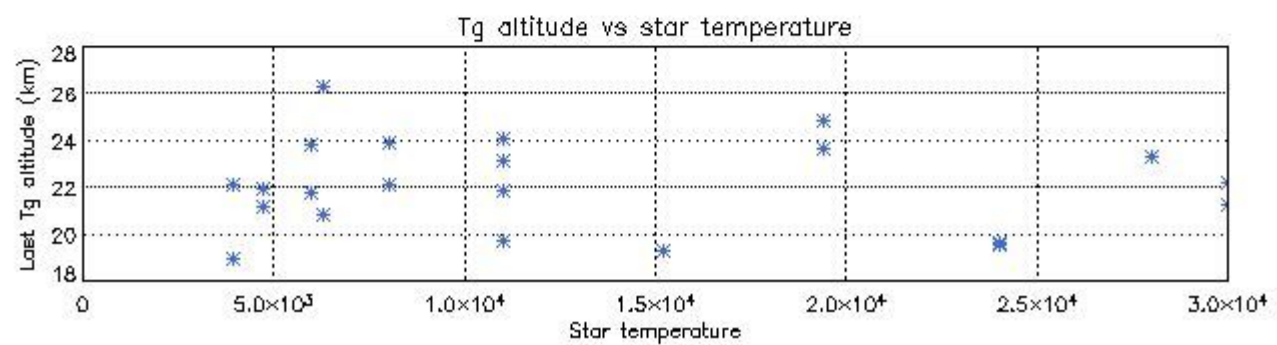
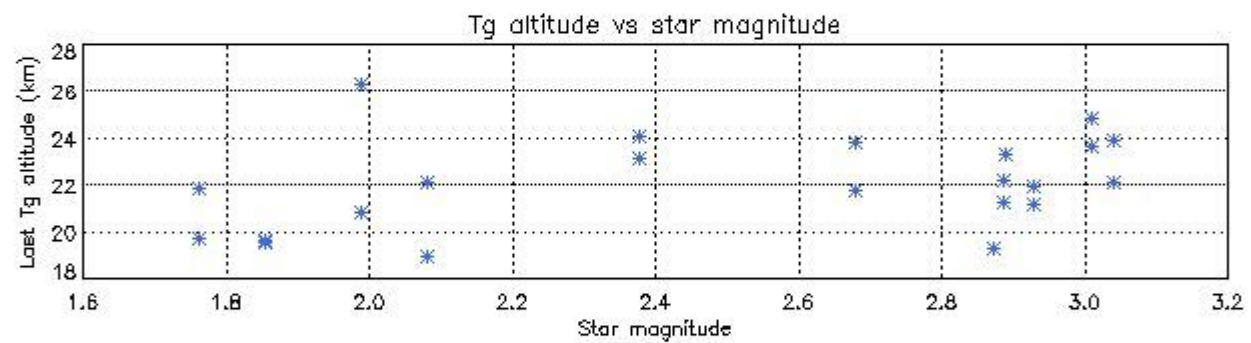
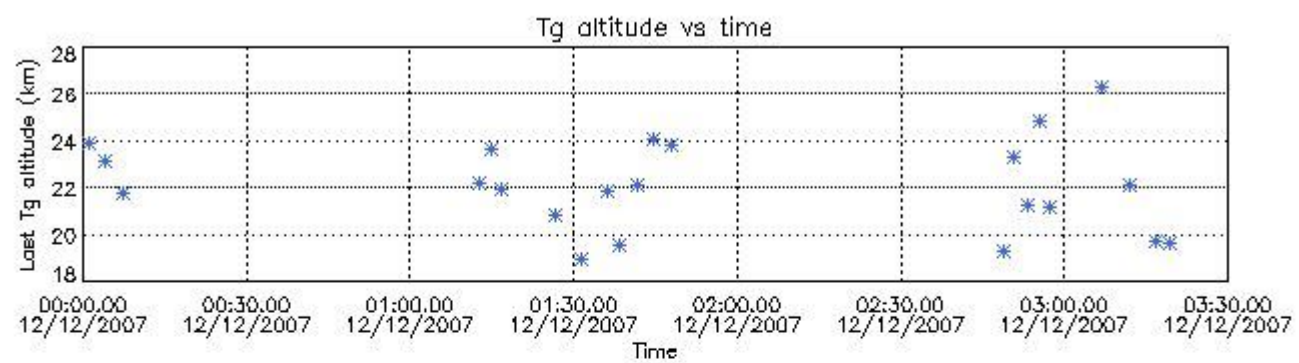
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



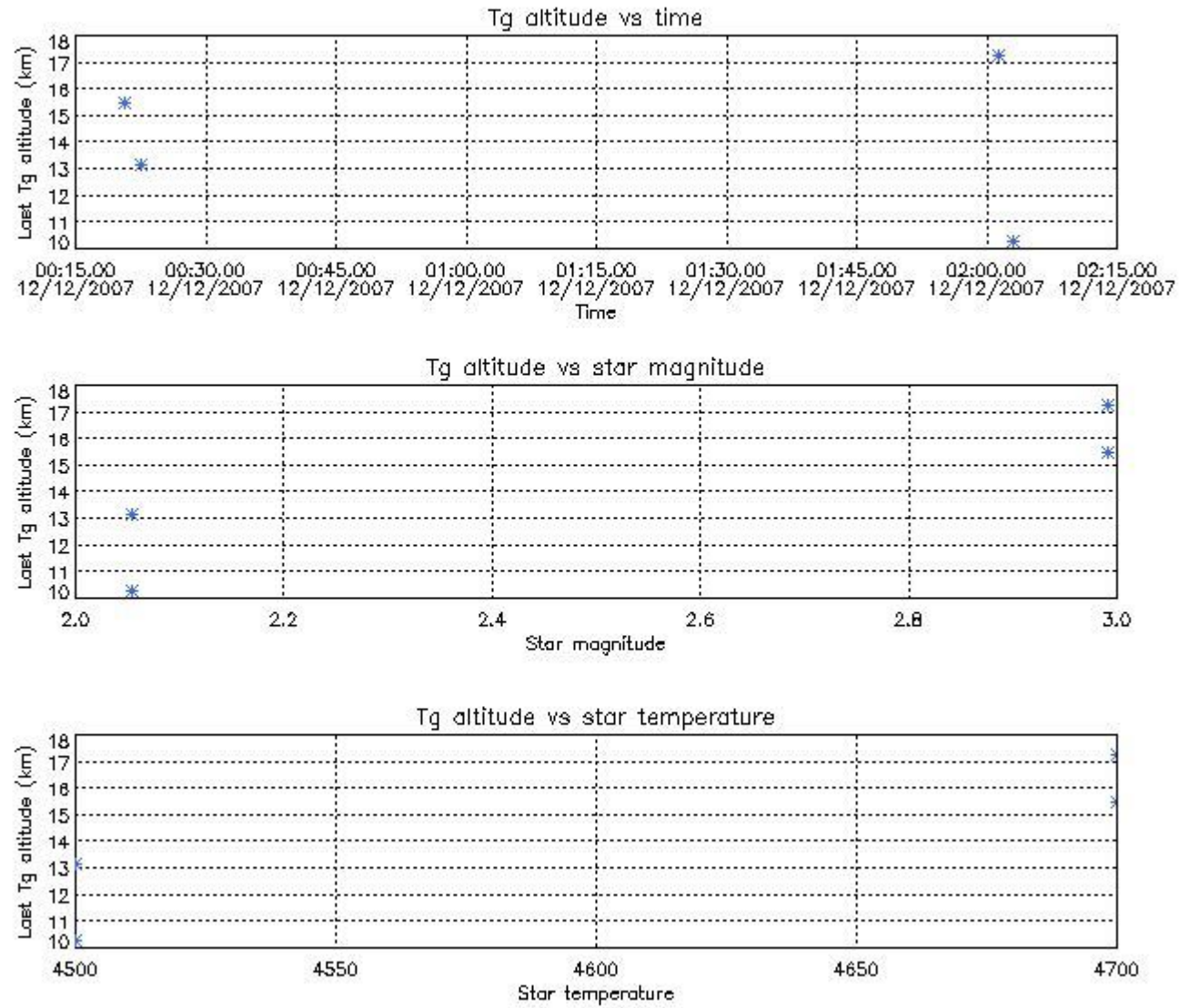
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

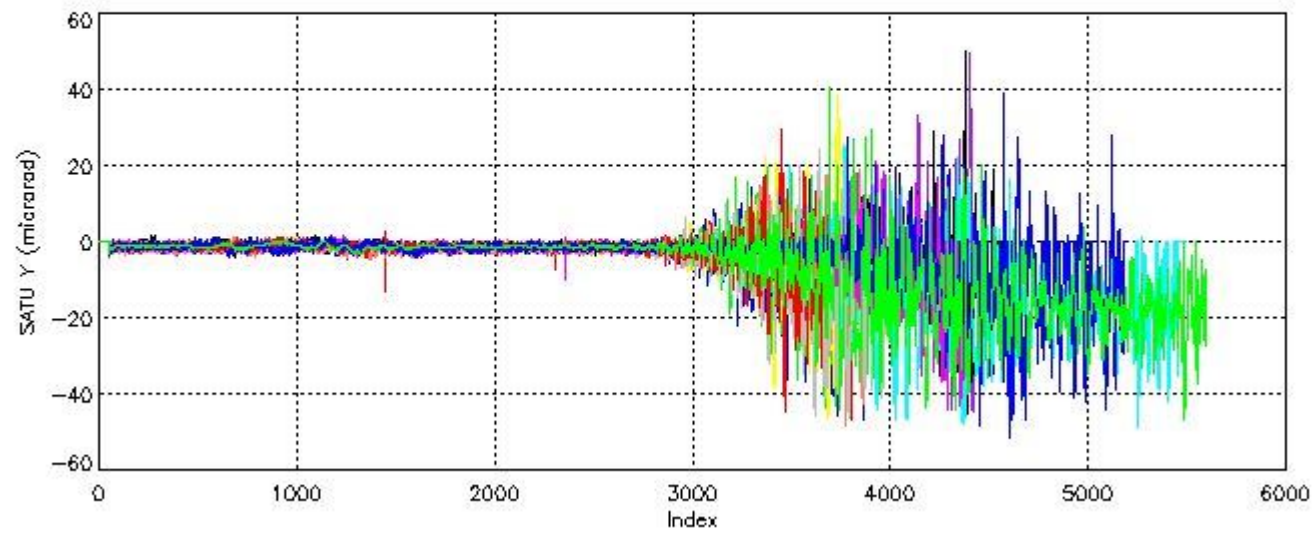
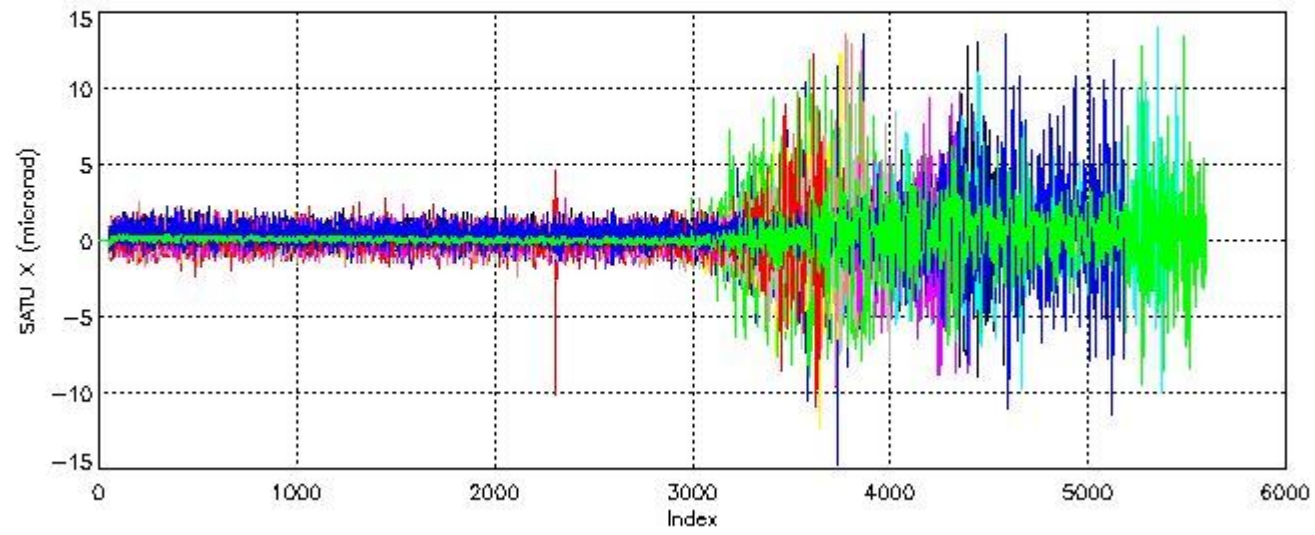


7. Star Acquisition and Tracking Unit (SATU)

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:	0.16836	-1.3017	0.081073	-1.2068
St. deviation:	0.42664	0.69056	0.95557	1.2509
Maximum:	2.5000	1.7000	6.0000	5.1000
Minimum:	-2.4000	-4.4000	-6.1000	-8.6000

Number of data:	12300.	12300.	18550.	18550.
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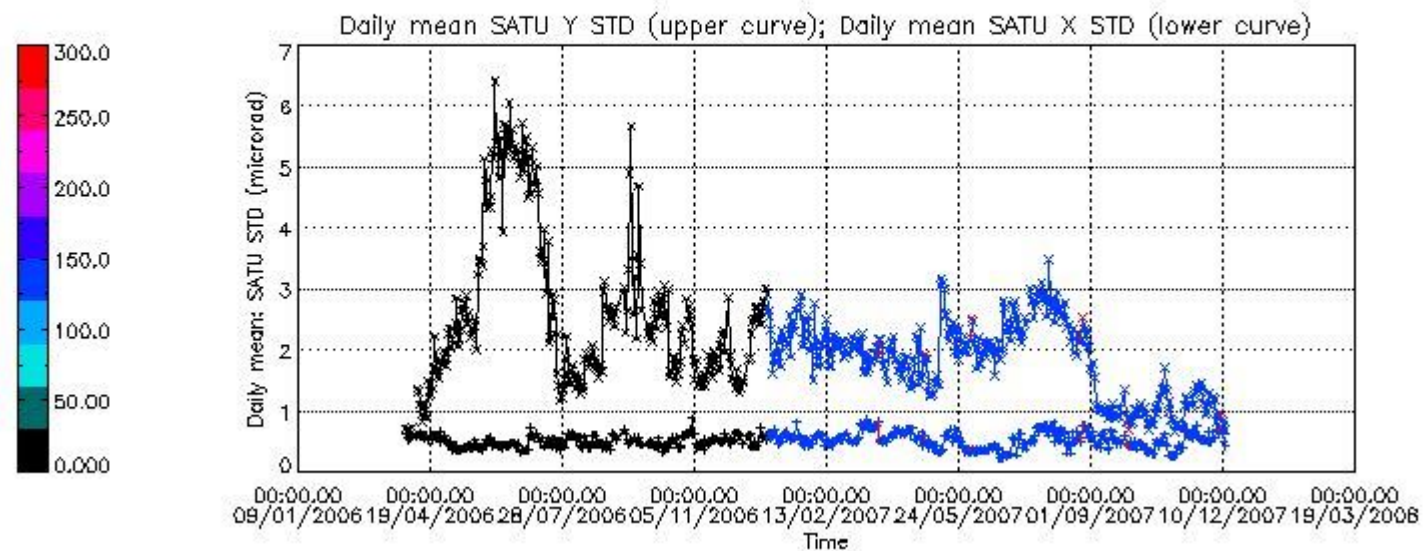
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

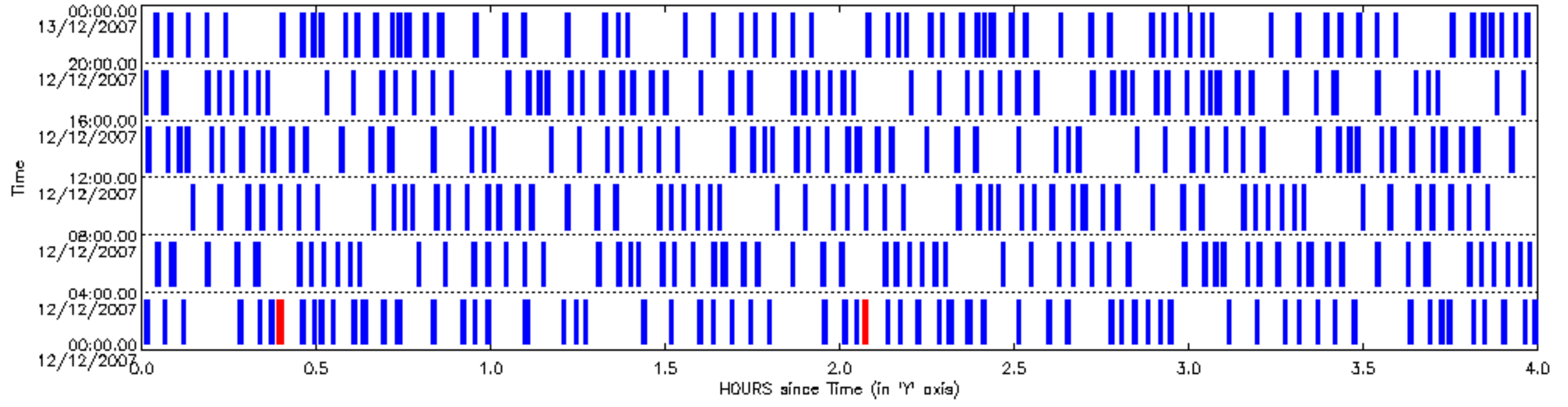
Lower curve: STD of SATU X axis

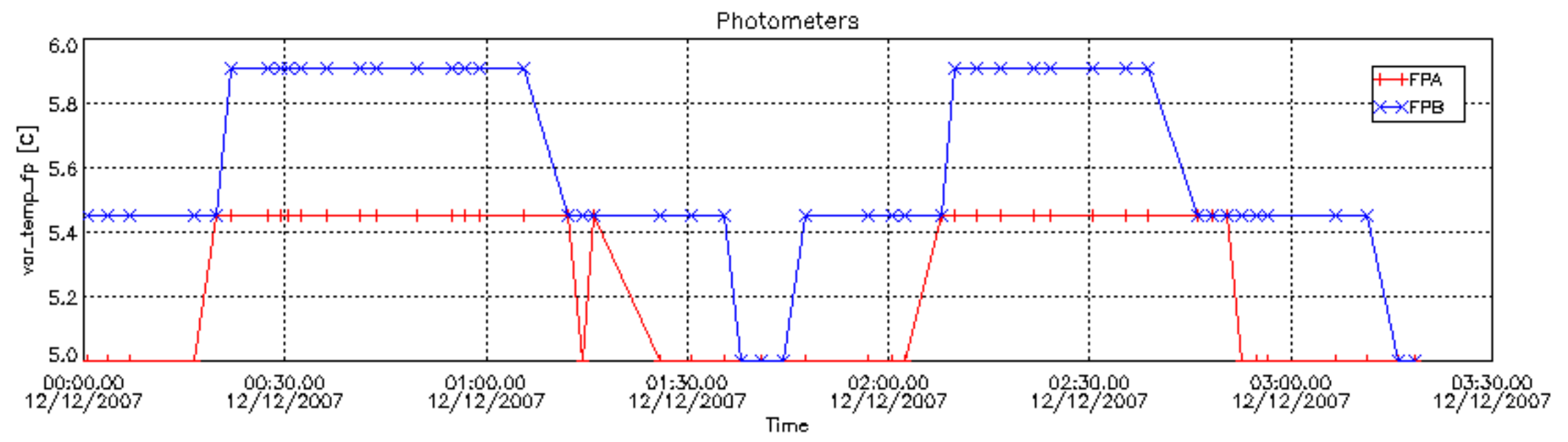
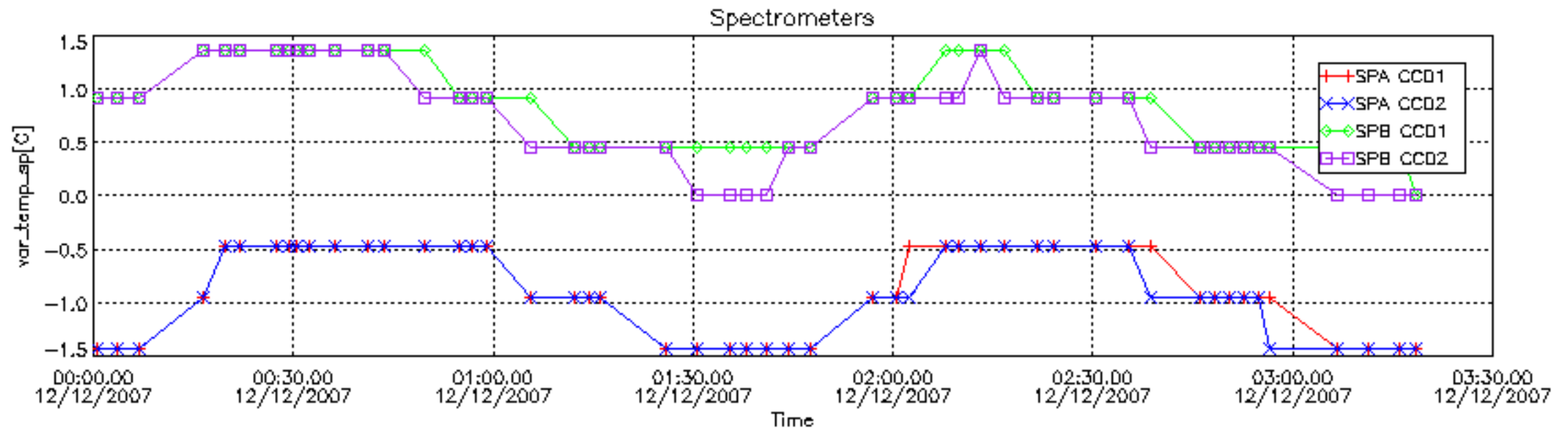


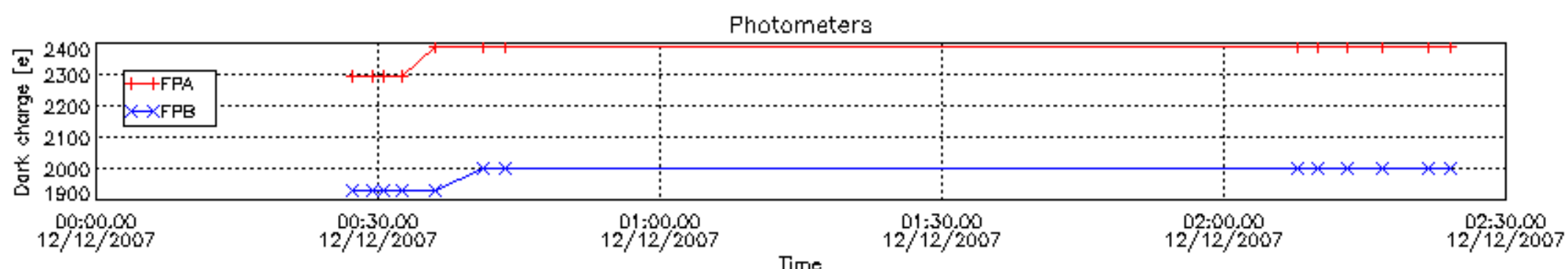
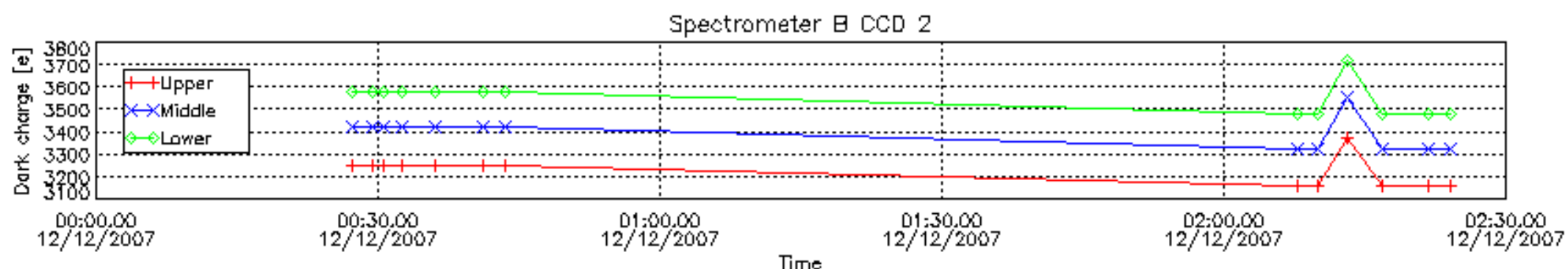
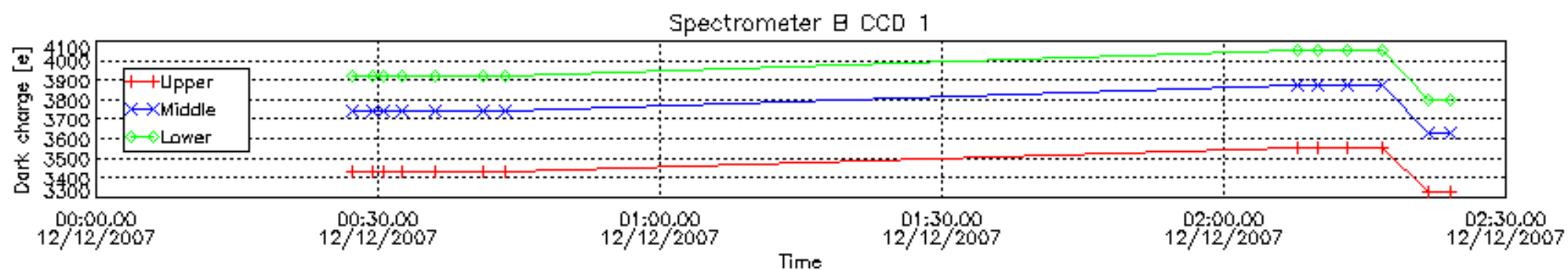
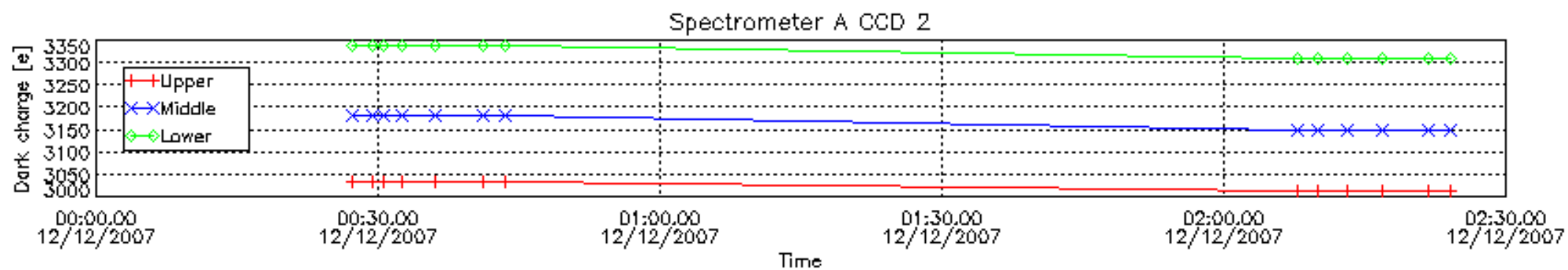
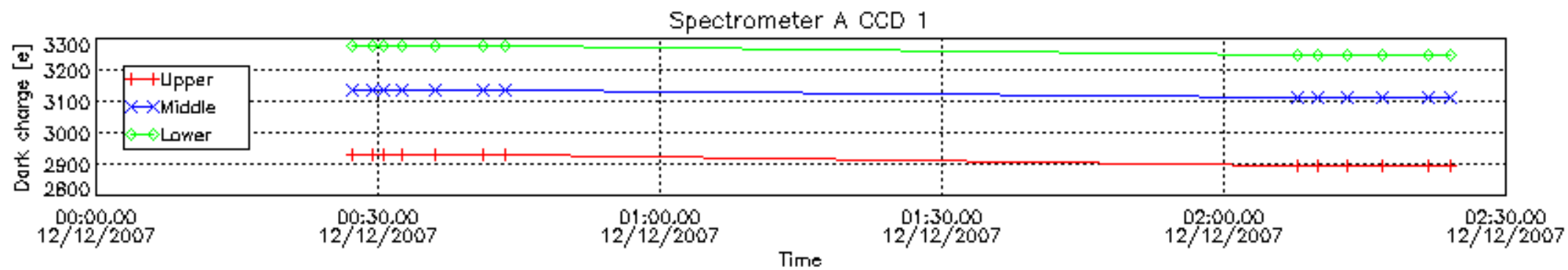
8. Auxiliary Data Files used for the production reported in section 2.4

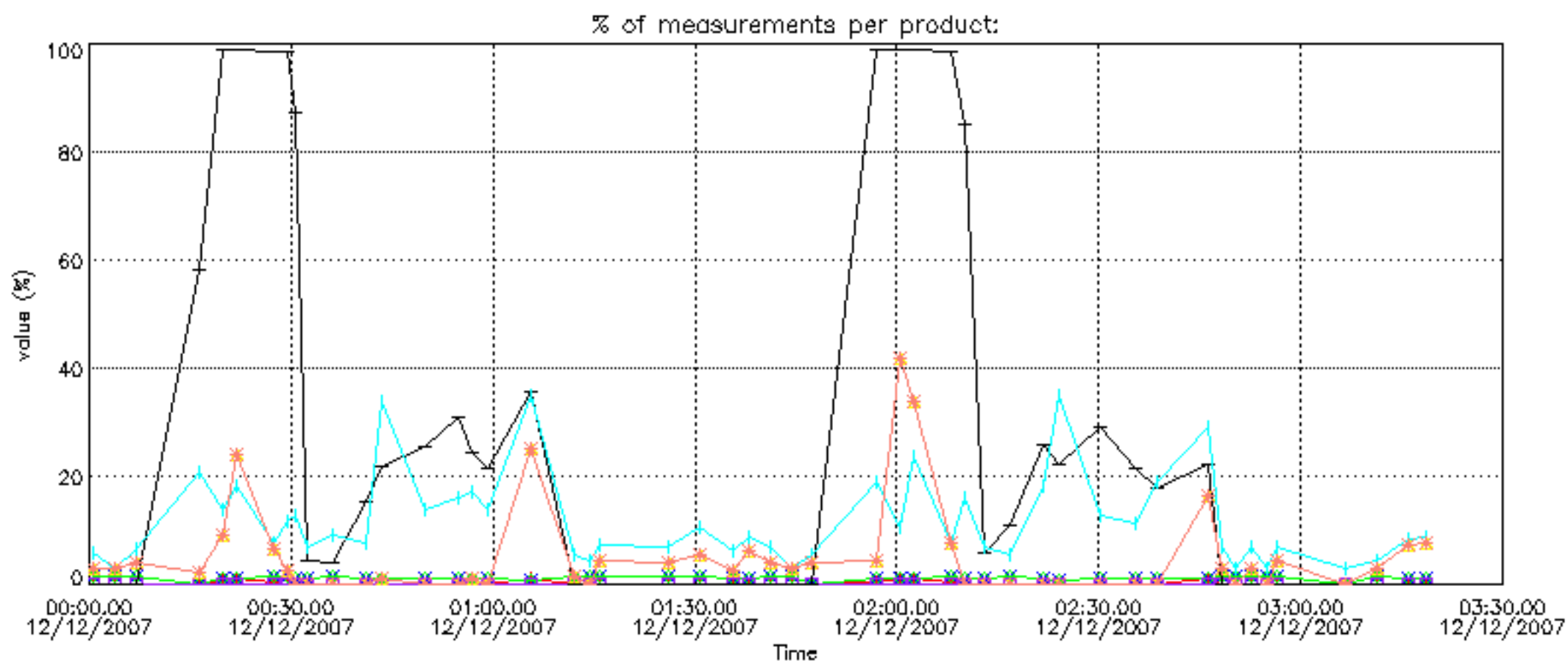
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	12-DEC-2007 00:00:32
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071207_090506_20071205_000000_20100101_000000	1	12-DEC-2007 00:00:32
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	12-DEC-2007 00:00:32
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	12-DEC-2007 00:00:32
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	12-DEC-2007 00:00:32
ECMWF_FILE	AUX_ECF_AXNECM20071211_102113_20071211_210000_20071212_090000	1	12-DEC-2007 00:00:32
ECMWF_FILE	AUX_ECF_AXNECM20071211_182133_20071212_030000_20071212_150000	48	12-DEC-2007 03:11:18
OPTIONAL_ECMWF_FILE	MISSING	1	12-DEC-2007 00:00:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071211_223111_000060572064_00115_30229_4734.N1	1	12-DEC-2007 00:00:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071212_001727_000054192064_00116_30230_4735.N1	29	12-DEC-2007 01:57:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071212_015305_000041442064_00117_30231_4736.N1	48	12-DEC-2007 03:11:18

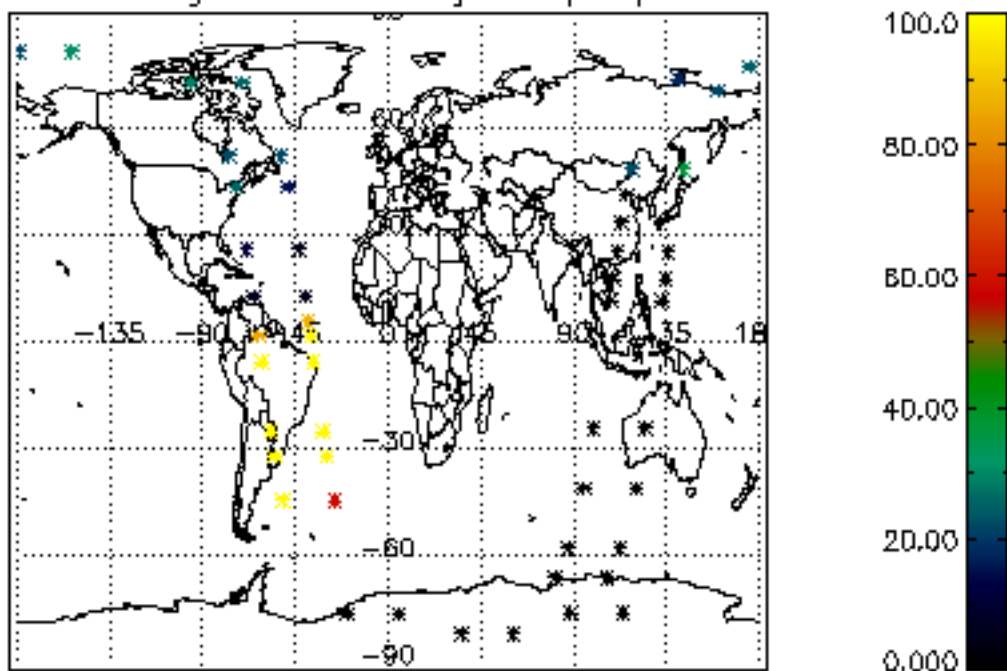




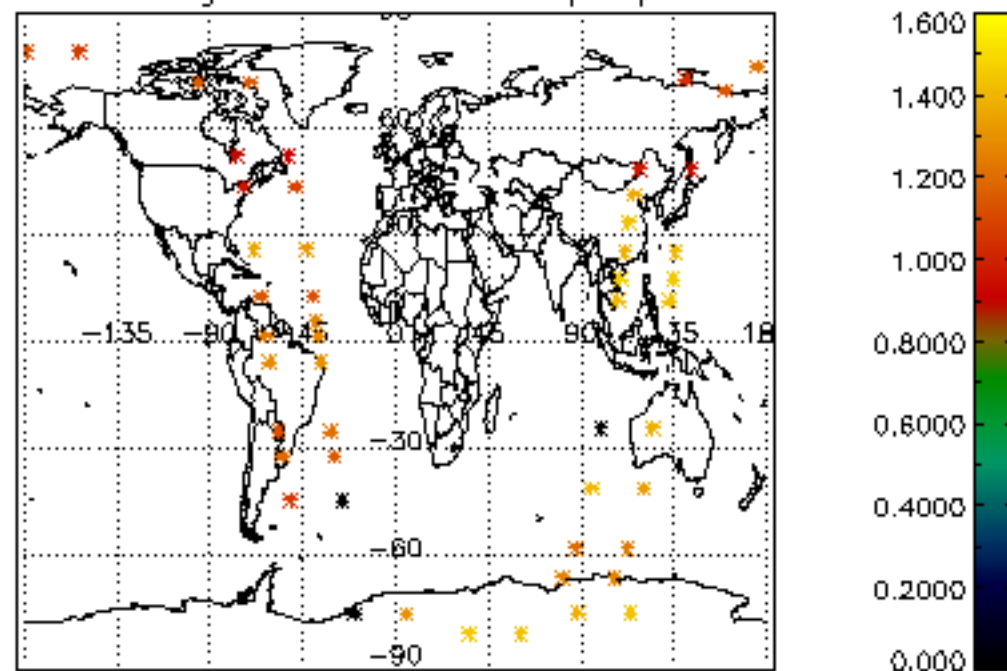




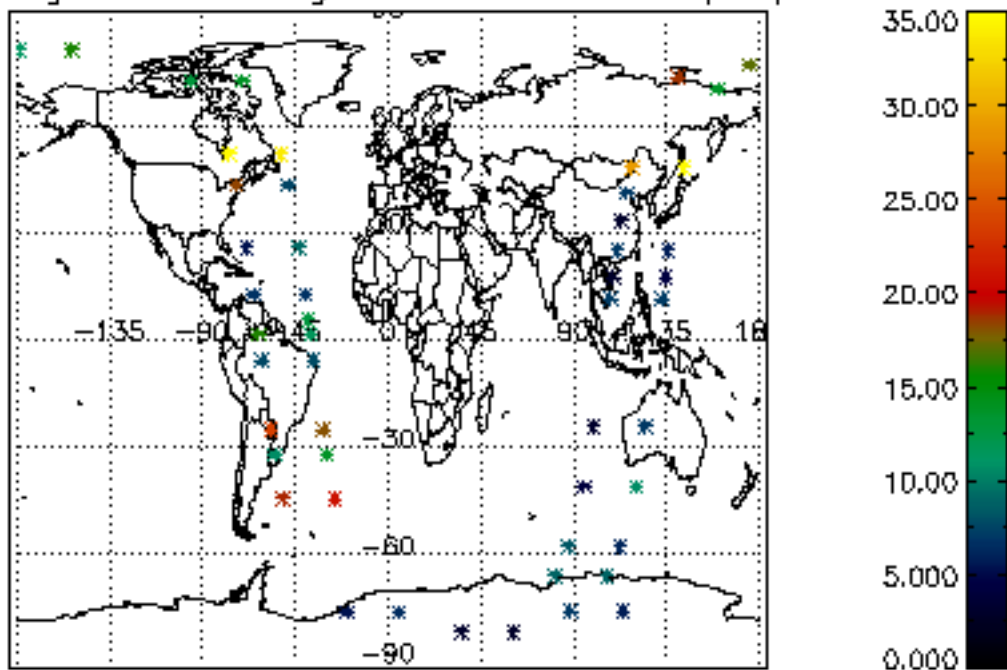
Percentage of cosmic ray hits per profile



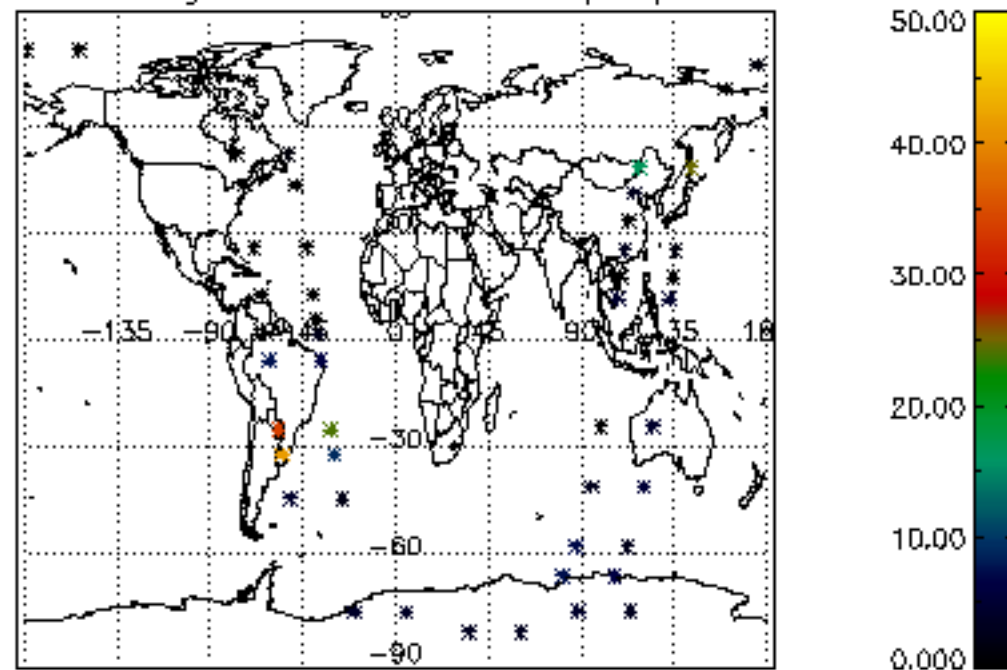
Percentage of datation errors per profile



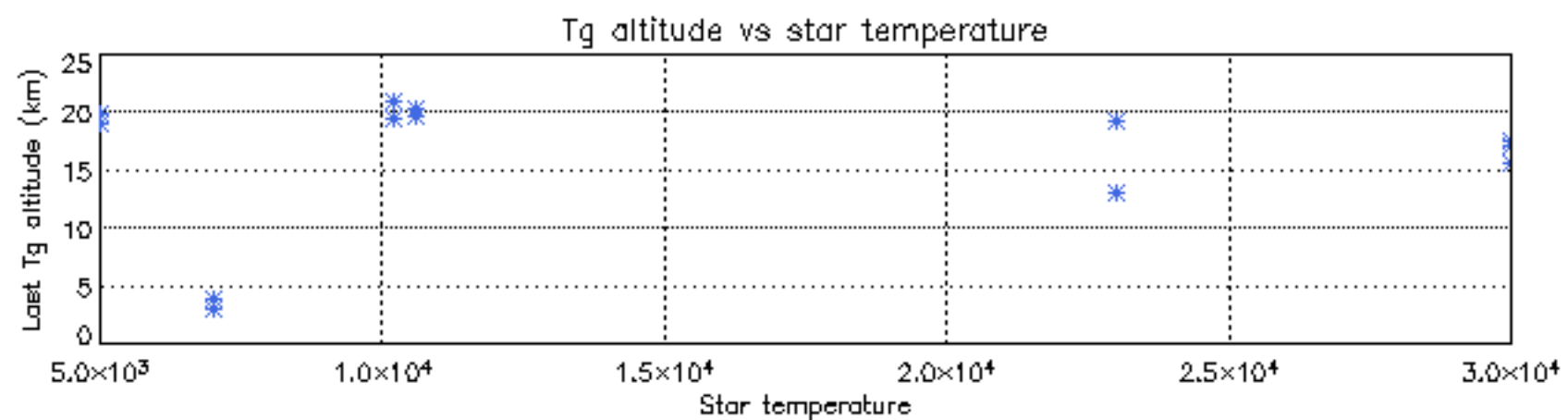
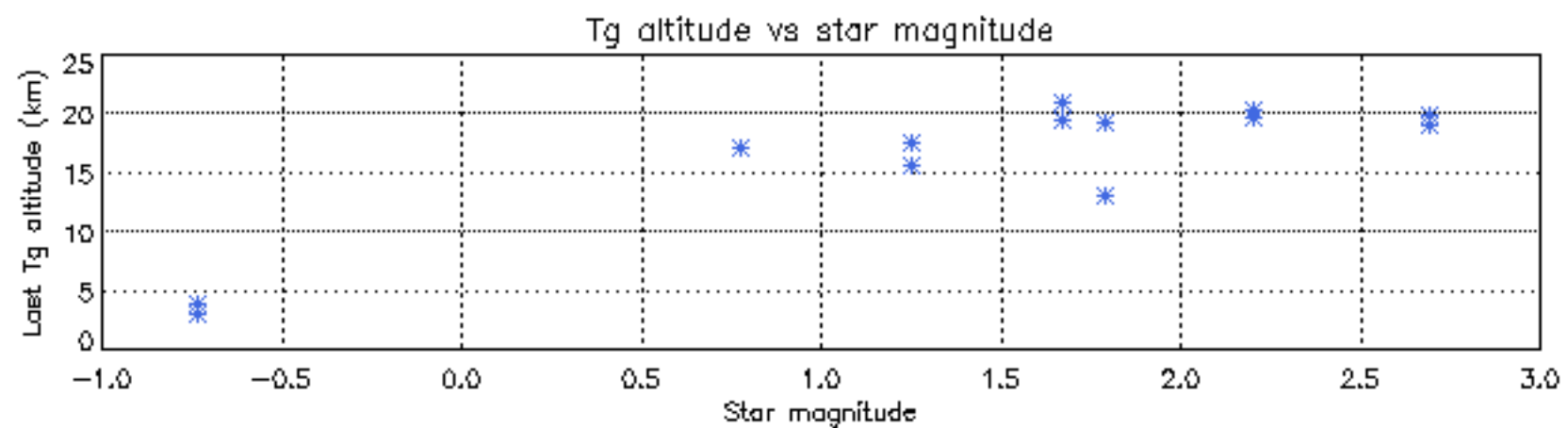
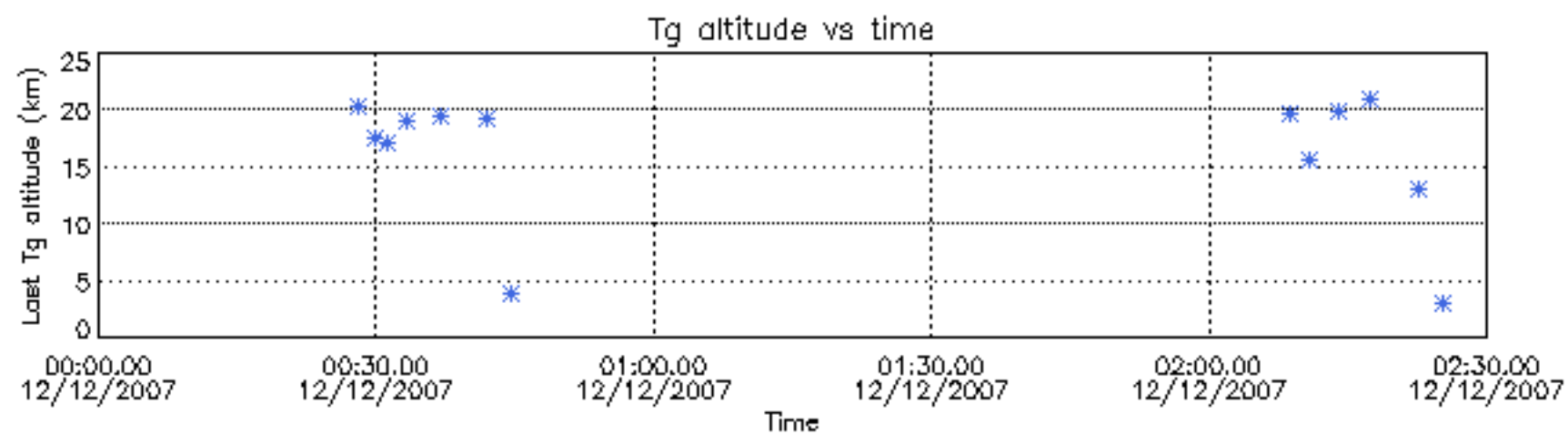
Percentage of star falling outside central band per profile



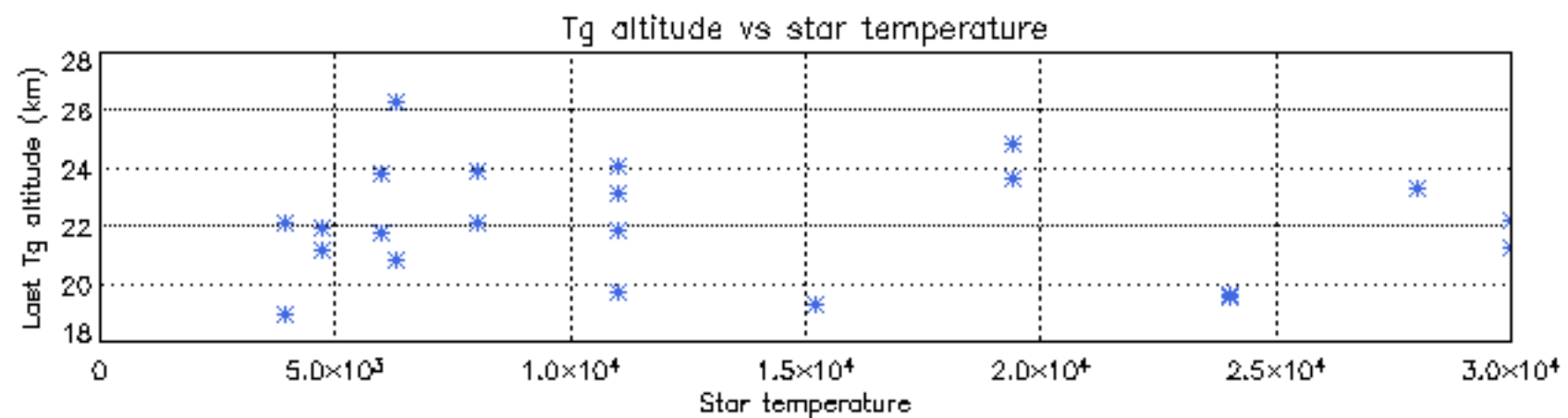
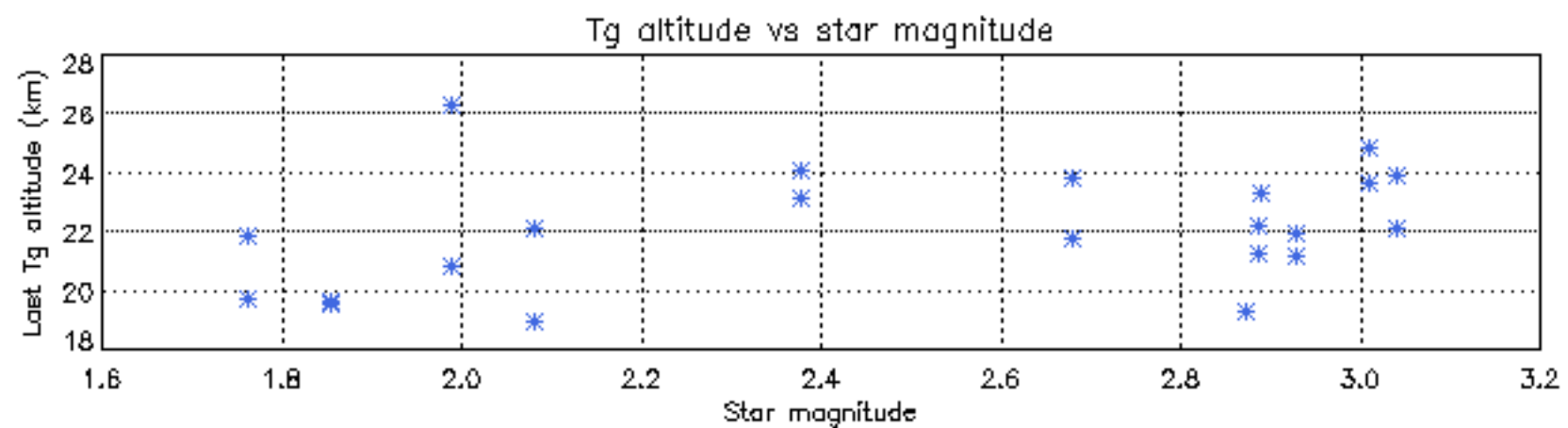
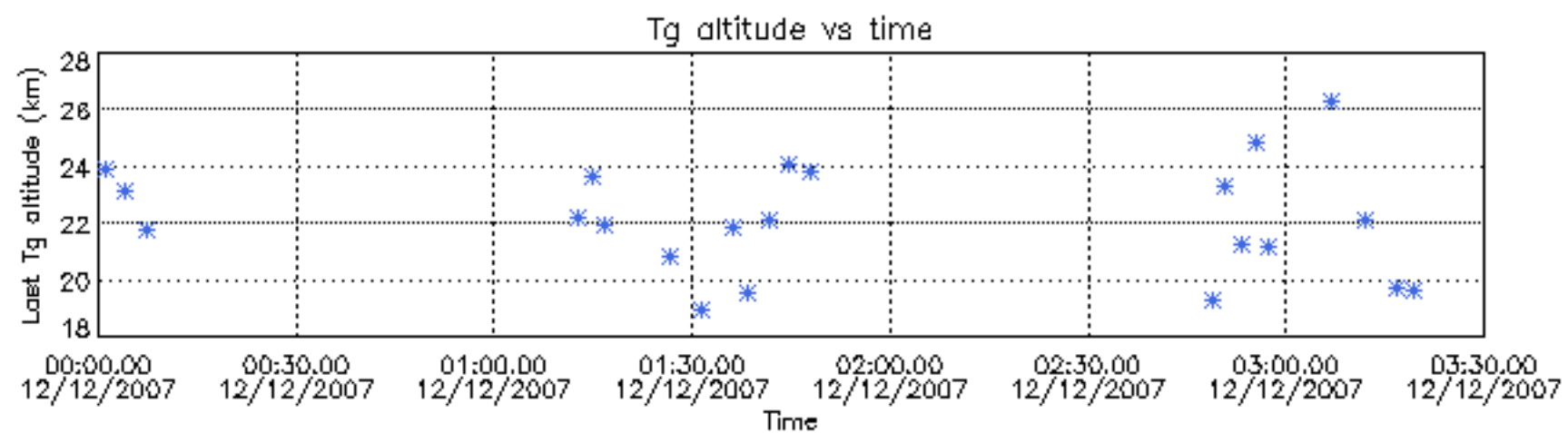
Percentage of saturation errors per profile



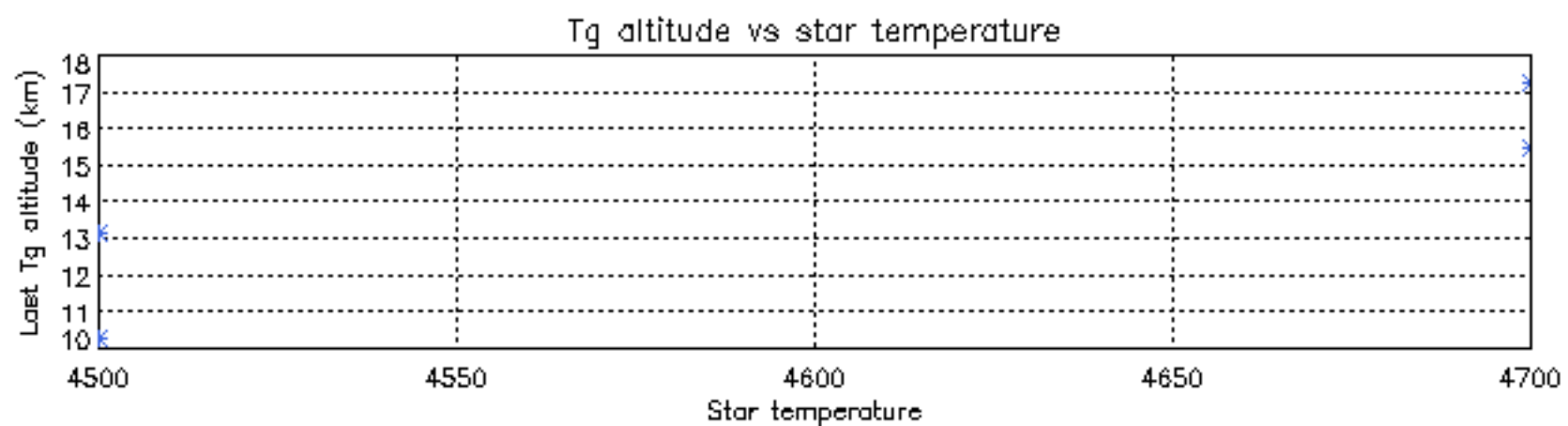
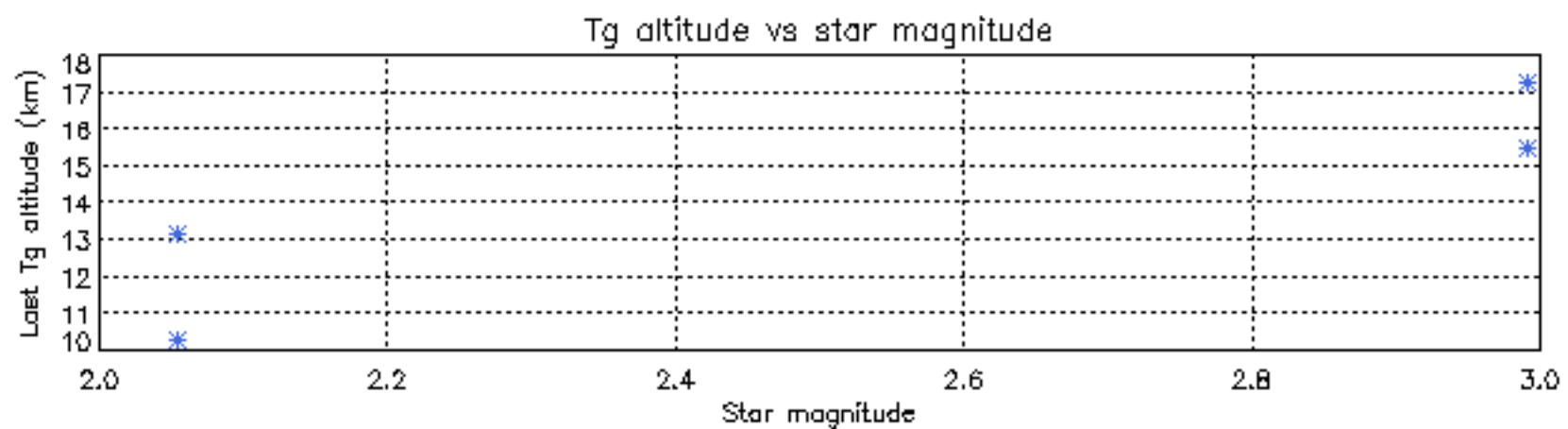
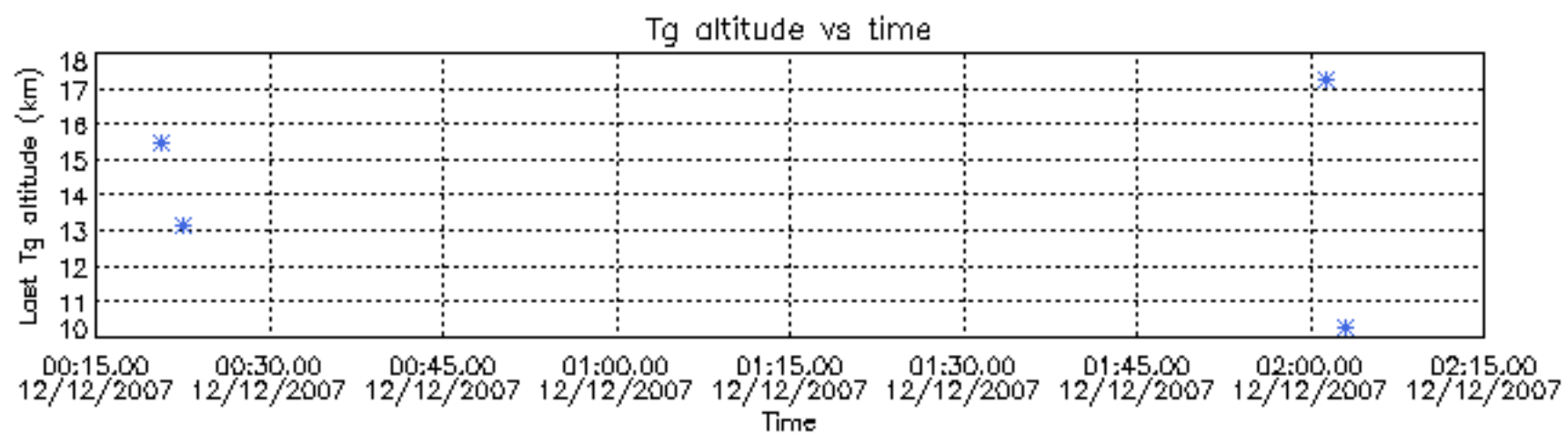
Tangent altitude at which the star is lost

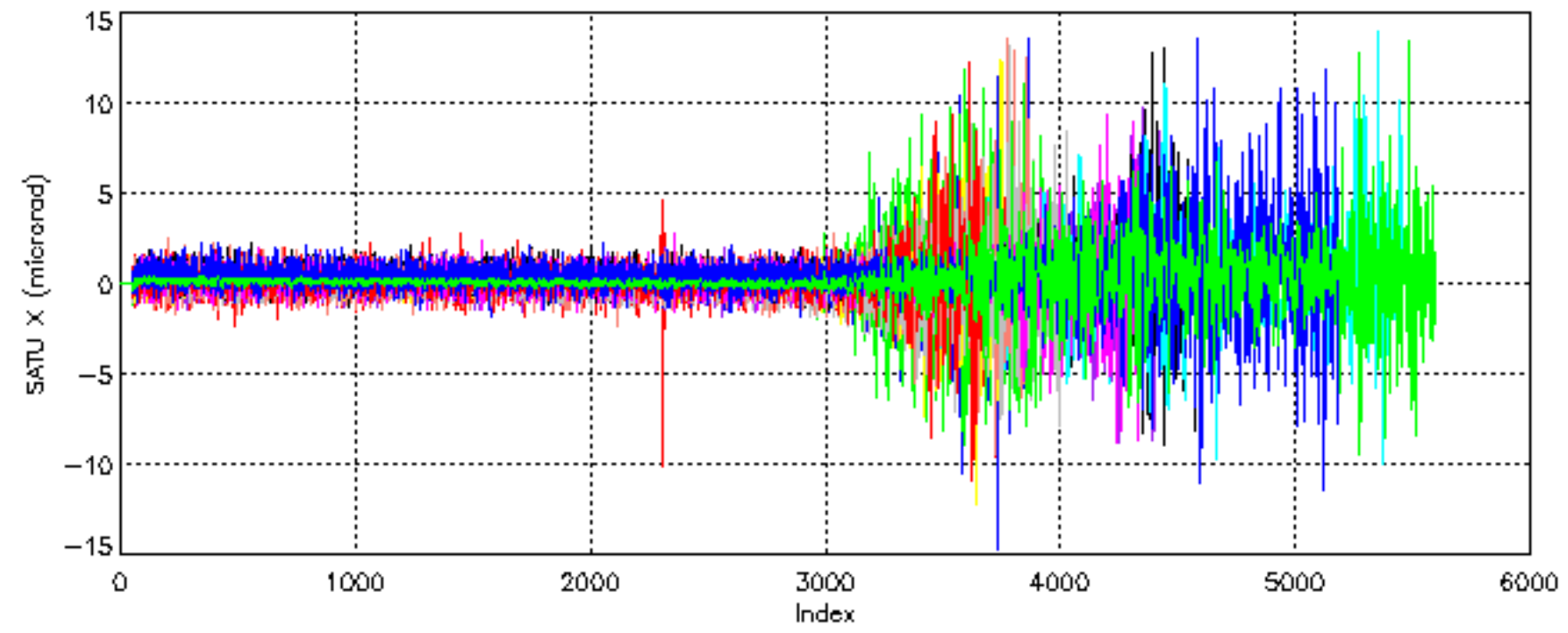


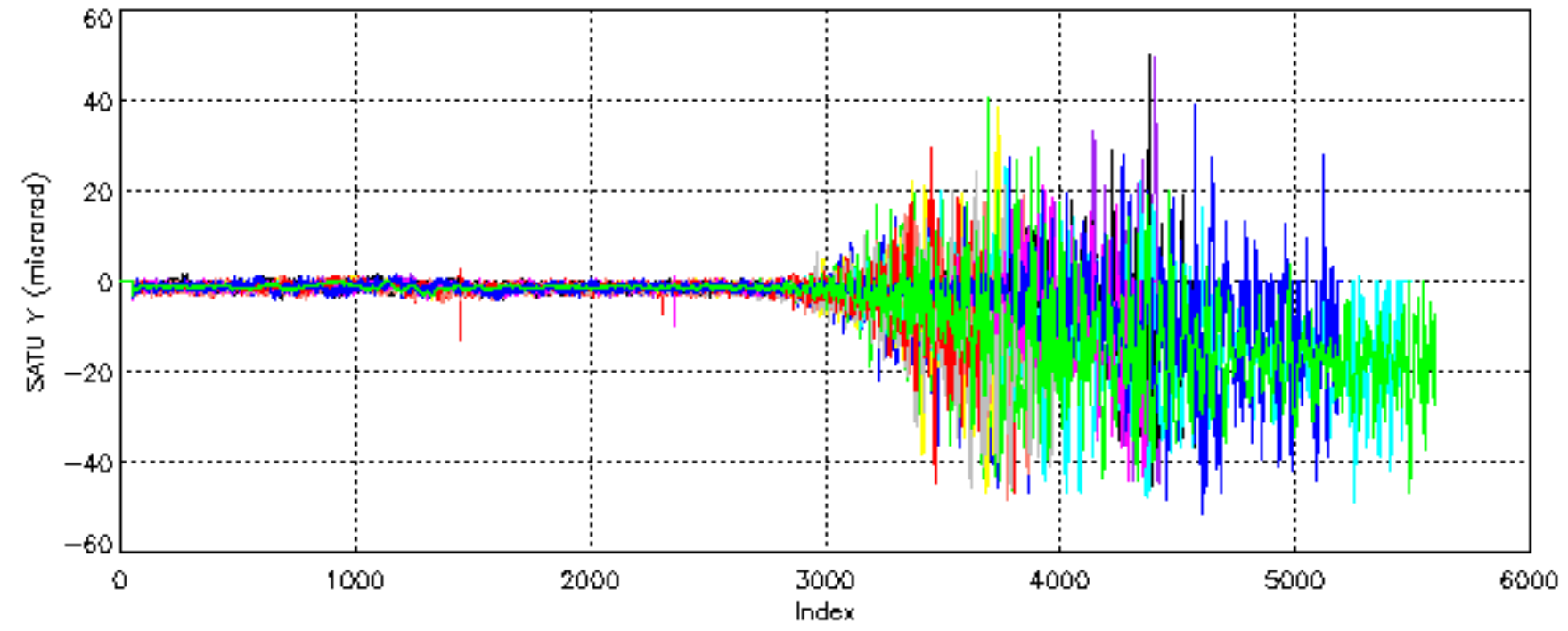
Tangent altitude at which the star is lost

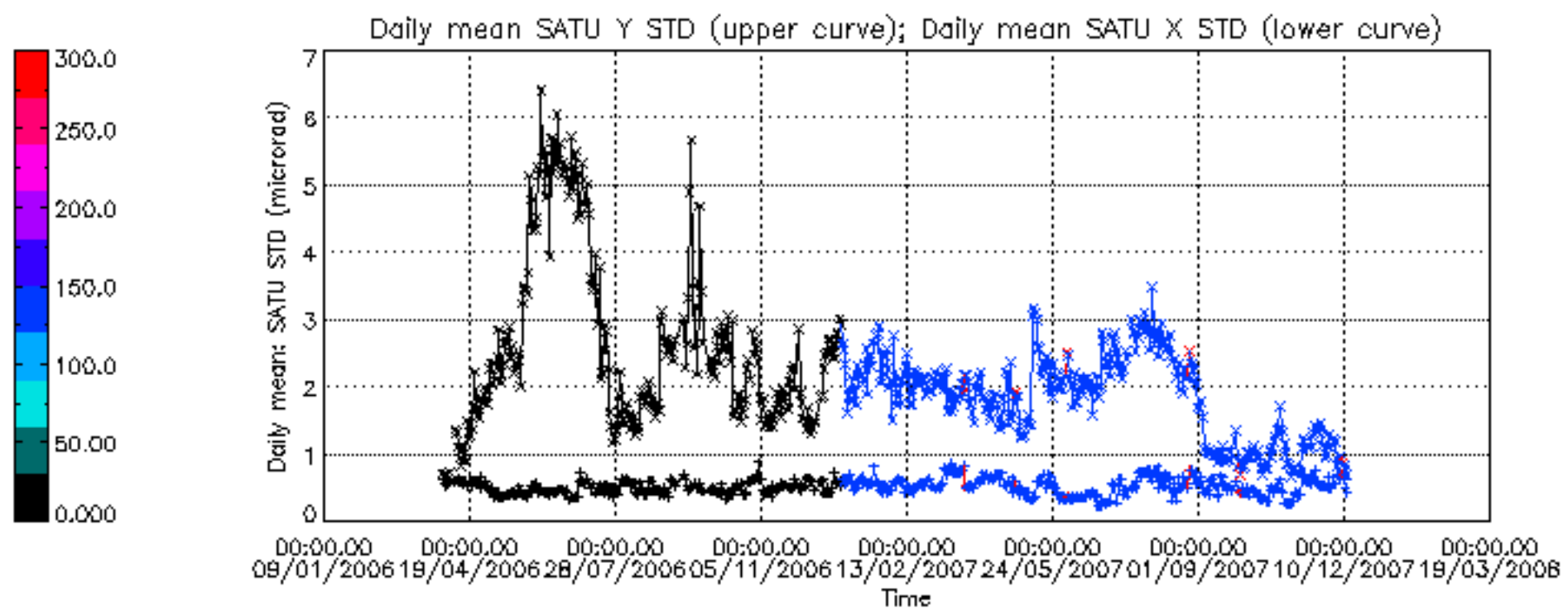


Tangent altitude at which the star is lost









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 3; -537.4; 01-DEC-2007 01:05:58; Dark ; 44.0; 106; 9Bet Crv ; 2.65; 5600;occ; 88; 0;30073
 4; -145.2; 01-DEC-2007 01:12:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30073
 5; -46.6; 01-DEC-2007 01:14:09; Dark ; 53.0; 26; Gam Cru ; 1.62; 2900;occ; 106; 0;30073
 6; 83.1; 01-DEC-2007 01:16:18; Dark ; 43.5; 113; Mu Vel ; 2.69; 5000;occ; 87; 0;30074
 7; 202.5; 01-DEC-2007 01:18:18; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;30074
 8; 369.6; 01-DEC-2007 01:21:05; Dark ; 39.5; 29; Bet Car ; 1.67; 10200;occ; 79; 0;30074
 9; 481.6; 01-DEC-2007 01:22:57; Dark ; 41.5; 41; Eps Car ; 1.86; 4100;occ; 83; 0;30074
 10; 803.9; 01-DEC-2007 01:28:19; Dark ; 47.0; 2; Alp Car ; -0.74; 7000;occ; 94; 0;30074
 11; 1658.7; 01-DEC-2007 01:42:34; Dark ; 44.0; 165; 34Gam Eri ; 2.95; 3200;occ; 88; 0;30074
 12; 1980.3; 01-DEC-2007 01:47:56; Dark ; 42.0; 94; 92Alp Cet ; 2.53; 3100;occ; 84; 0;30074
 13; 2330.0; 01-DEC-2007 01:53:45; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;30074
 14; 2472.4; 01-DEC-2007 01:56:08; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;30074
 15; 2605.6; 01-DEC-2007 01:58:21; Bright; 34.0; 79; 26Bet Per ; 2.31; 13100;occ; 68; 0;30074
 16; 2739.4; 01-DEC-2007 02:00:35; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;30074
 17; 2818.6; 01-DEC-2007 02:01:54; Bright; 37.5; 160; 23Gam Per ; 2.93; 4700;occ; 75; 0;30074
 18; 3421.9; 01-DEC-2007 02:11:57; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;30074

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 13; 84.5; 01-DEC-2007 04:37:32; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;30076
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16; 483.5; 01-DEC-2007 06:24:47; Dark ; 40.0; 41; Eps Car ; 1.86; 4100;occ; 80; 0;30077
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12; 204.3; 11-DEC-2007 07:46:22; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;30221
13; 378.1; 11-DEC-2007 07:49:15; Dark ; 38.5; 159; Ups Car ; 2.92; 7200;occ; 77; 0;30221
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11; 4140.5; 11-DEC-2007 13:53:45; Bright; 43.0; 39; 85Eta UMa ; 1.85; 24000;occ; 86; 0;30224
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 16; 5618.0; 11-DEC-2007 17:39:35; Dark ; 52.0; 106; 9Bet Crv ; 2.65; 5600;occ; 104; 0;30226
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21;	3917.1;	27-DEC-2007	02:02:59;	Bright;	;	35.0;	119;	14Eta Dra	;	2.73;	4700;occ;	70;	0;	30446
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24;	4869.5;	27-DEC-2007	02:18:52;	Bright;	;	33.5;	102;	24Alp Ser	;	2.60;	4250;occ;	67;	0;	30446
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 26; 6730.4; 27-DEC-2007 17:55:16; Dark ; 50.5; 41; Eps Car ; 1.86; 4100;occ; 101; 0;30455
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