

GOMOS Daily Report 19-NOV-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	21NOV2007 05:58:11
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (19NOV2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (20NOV2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	64
Nb of prods with errors	0

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

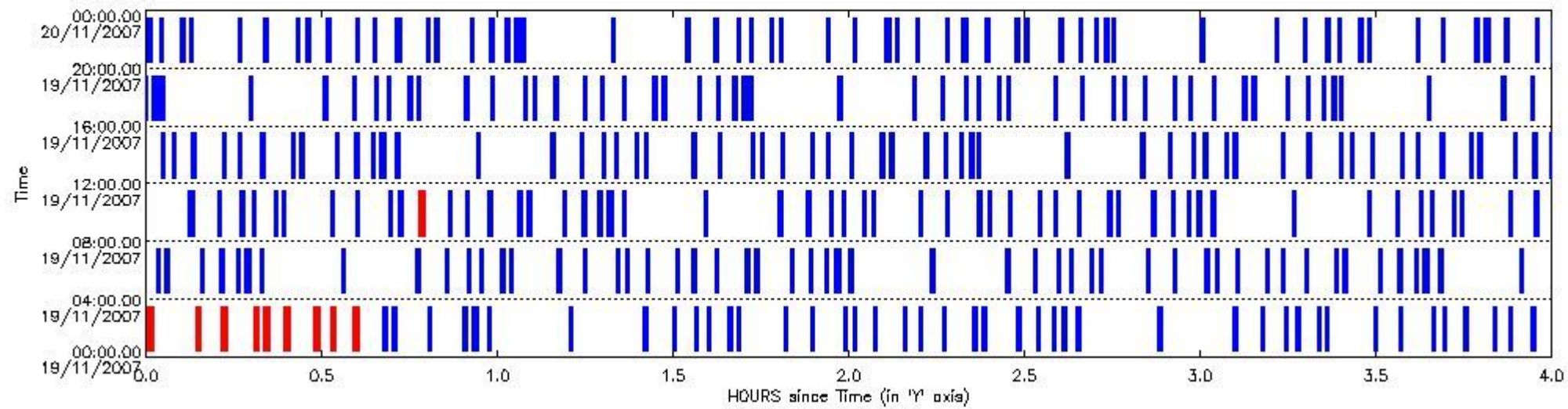
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

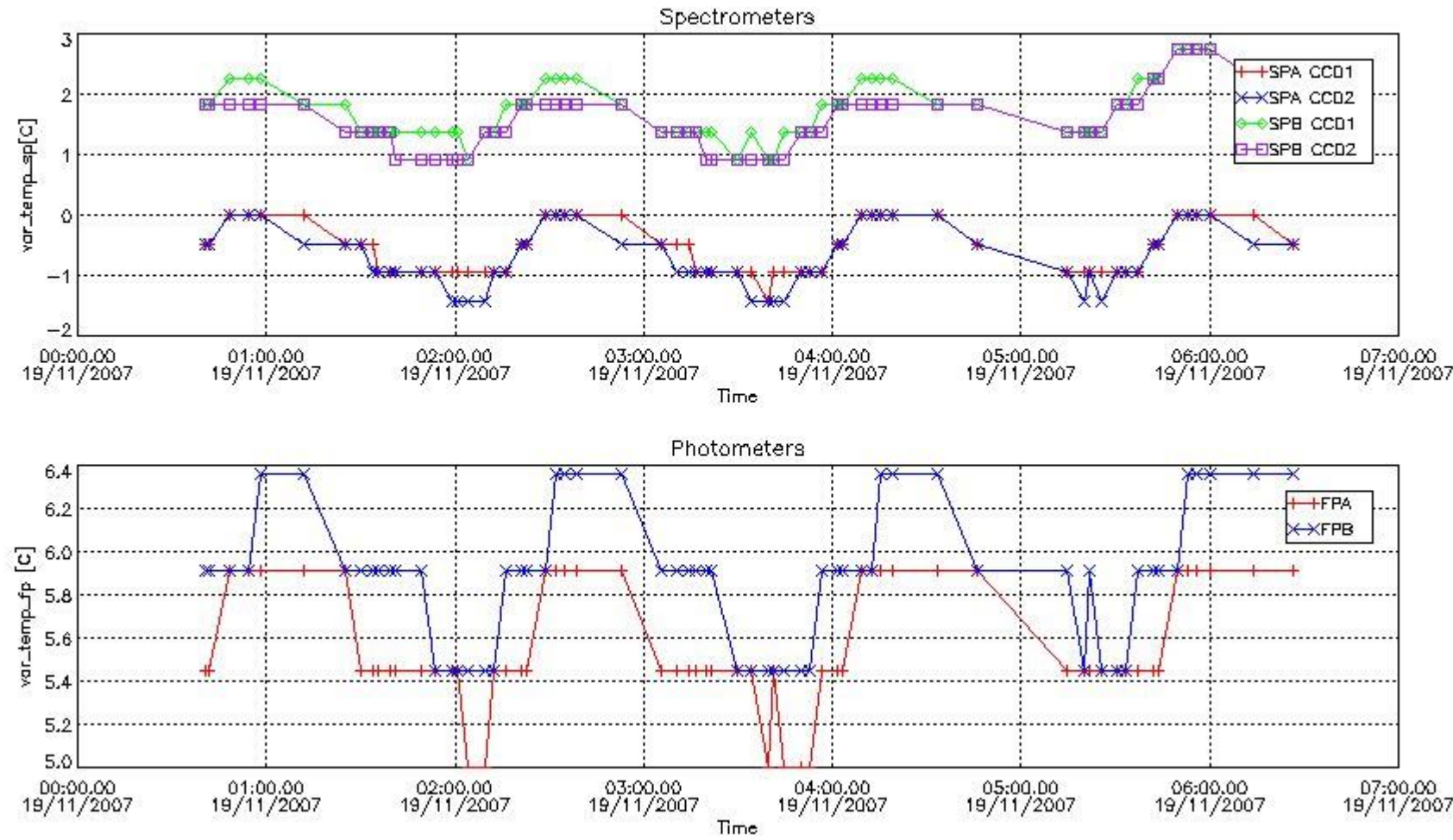
UTC start time	Star name	Star ID	Orbit
19-NOV-2007 00:00:14	37DelCas	110	29901
19-NOV-2007 00:08:23	1AlpUMi	49	29901
19-NOV-2007 00:12:49	7BetUMi	60	29901
19-NOV-2007 00:18:23	77EpsUMa	32	29901
19-NOV-2007 00:20:06	85EtaUMa	39	29901
19-NOV-2007 00:23:34	12Alp2CVn	152	29901
19-NOV-2007 00:28:40	8EtaBoo	111	29901
19-NOV-2007 00:31:25	47EpsVir	138	29901
19-NOV-2007 00:35:18	29GamVir	121	29901
19-NOV-2007 08:46:34	12Alp2CVn	152	29906

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_1PNPDE20071119_004027_000000402063_00288_29901_3138.N1	19-NOV-2007 00:40:27	Twl_and_stray	39.500	100	4Gam Crv	2.5800	13100.	79	29901	No

61	GOM_TRA_1PNPDE20071119_055555_000000382063_00292_29905_3414.N1	19-NOV-2007 05:55:55	Dark	38.000	124	The Car	2.7640	30000.	76	29905	No
62	GOM_TRA_1PNPDE20071119_060000_000000432063_00292_29905_3415.N1	19-NOV-2007 06:00:00	Dark	43.000	41	Eps Car	1.8600	4100.0	86	29905	No
63	GOM_TRA_1PNPDE20071119_061356_000000392063_00292_29905_3416.N1	19-NOV-2007 06:13:56	Straylight	38.500	157	The1Eri	2.9060	9300.0	77	29905	No
64	GOM_TRA_1PNPDE20071119_062639_000000462063_00292_29905_3417.N1	19-NOV-2007 06:26:39	Twilight_stray	46.000	94	92Alp Cet	2.5260	3100.0	92	29905	No

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



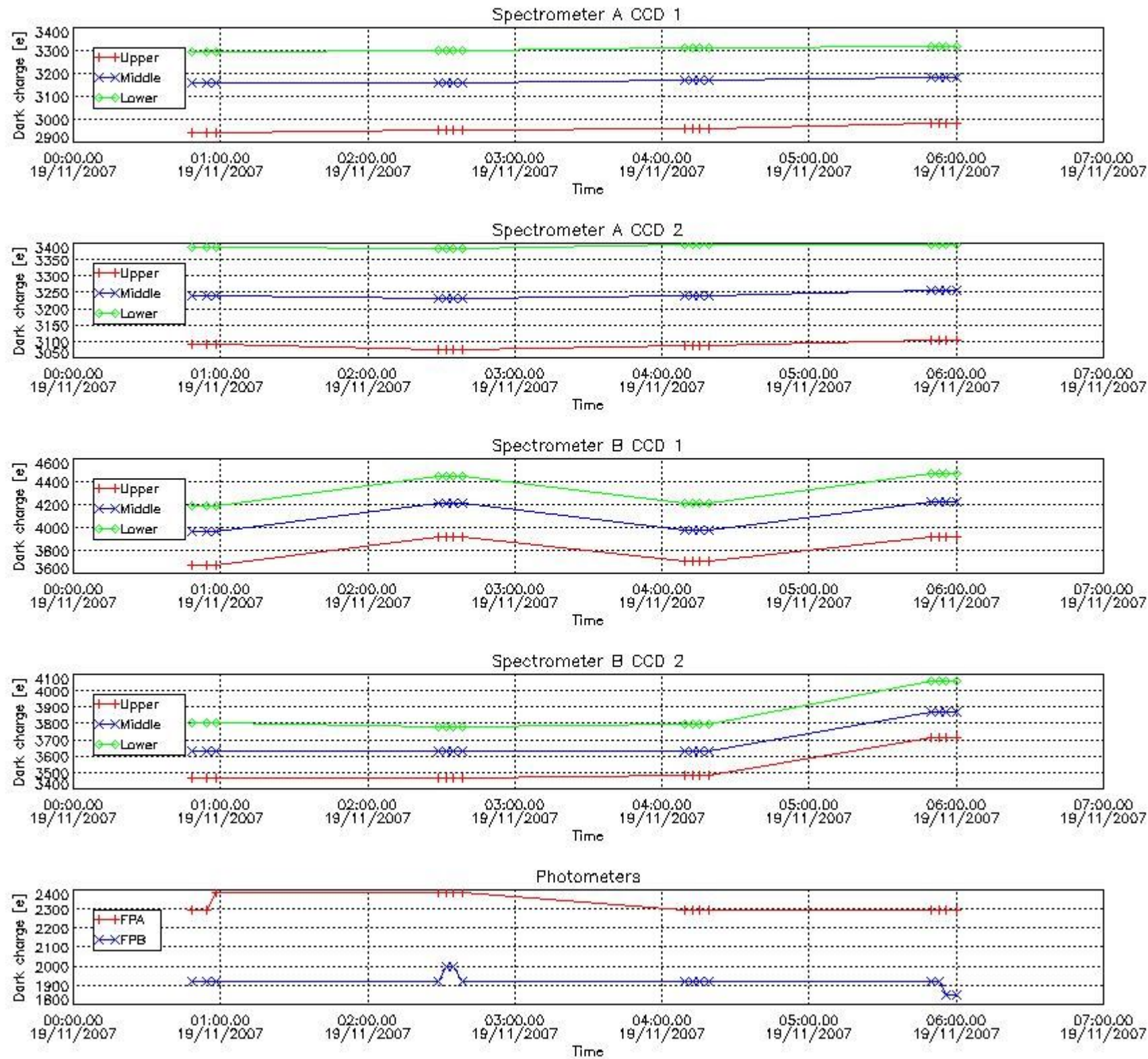
4. Overview of dark signal processing per product

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



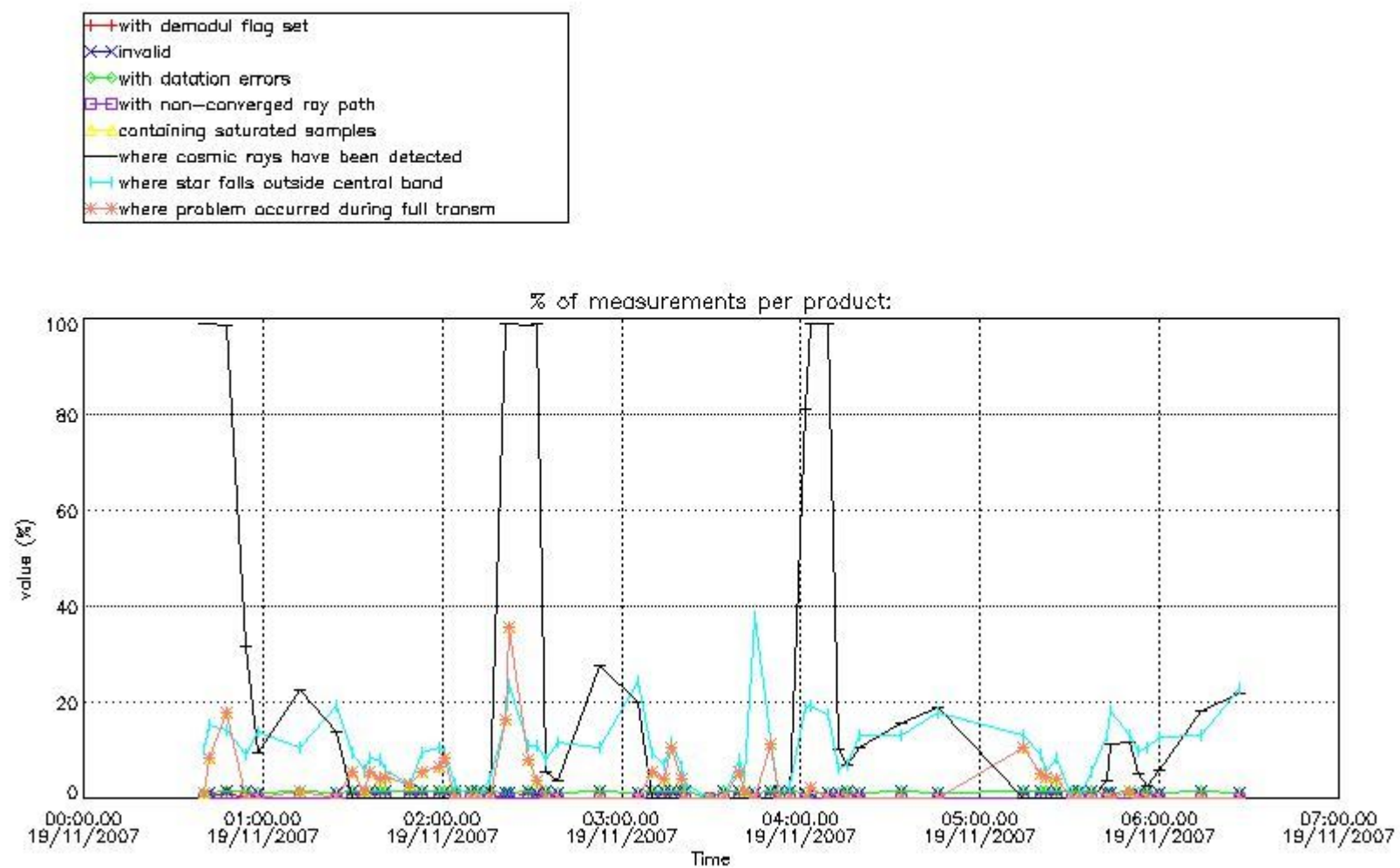
5. Demodulation flag and quality information monitoring

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.

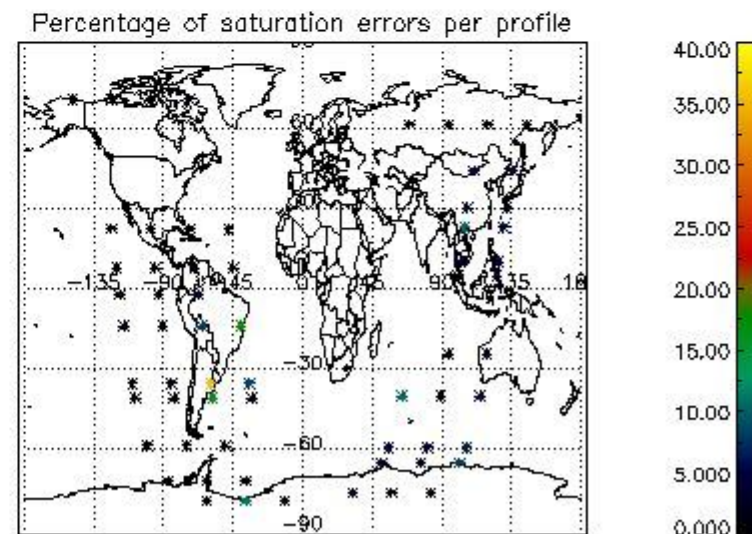
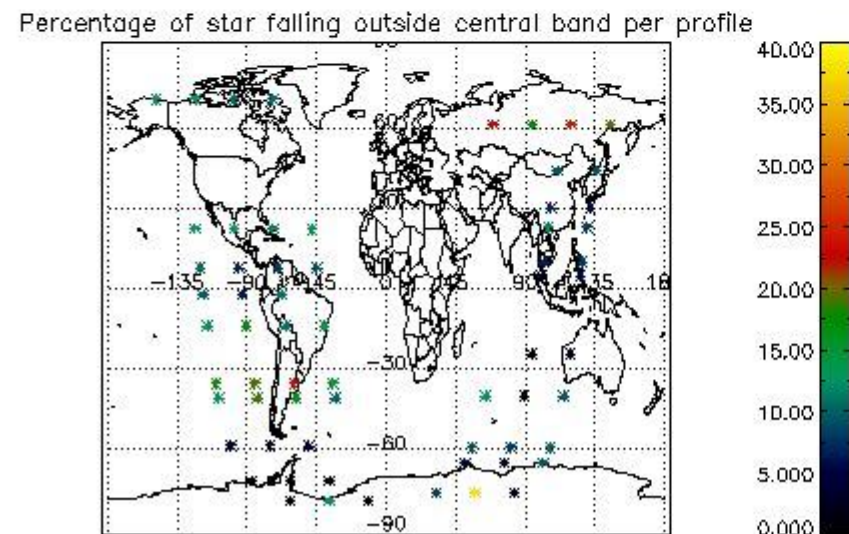
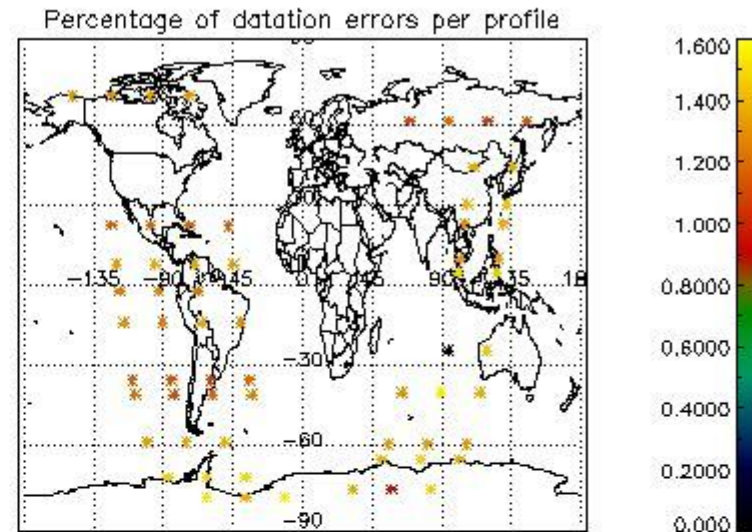
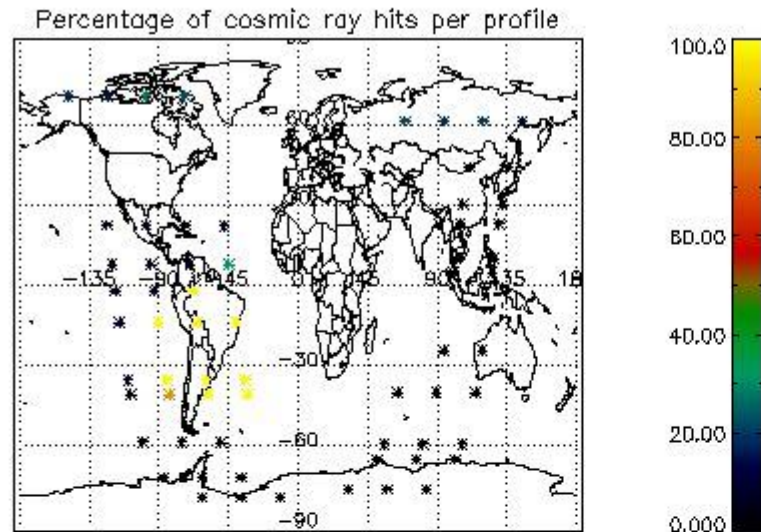
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	23.4375 %
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)



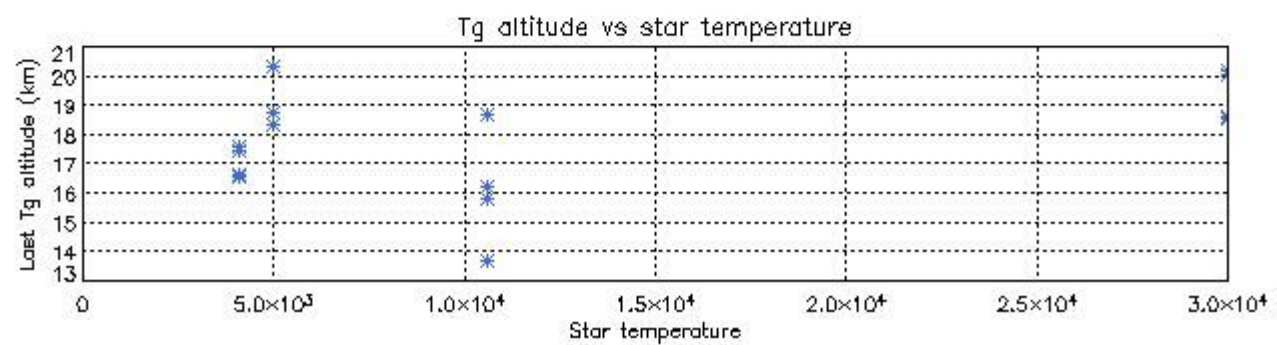
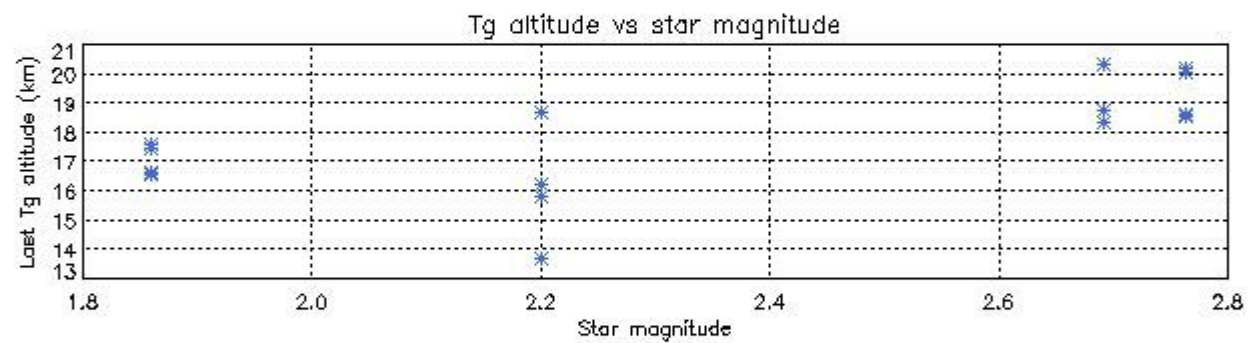
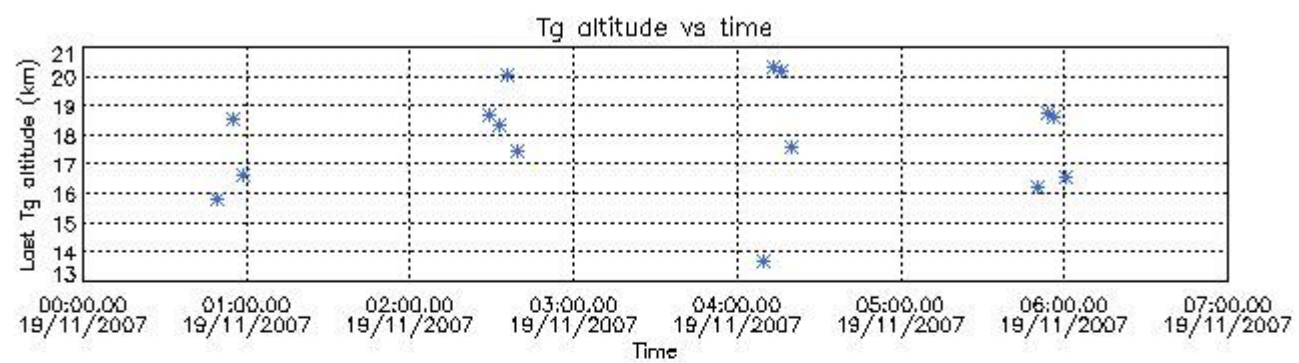
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.824	21.583	12.527
St. deviation:	1.8371	4.7810	1.7361
Maximum:	20.345	30.280	14.481
Minimum:	13.651	4.0345	10.476
Number of data:	15.000	33.000	4.0000

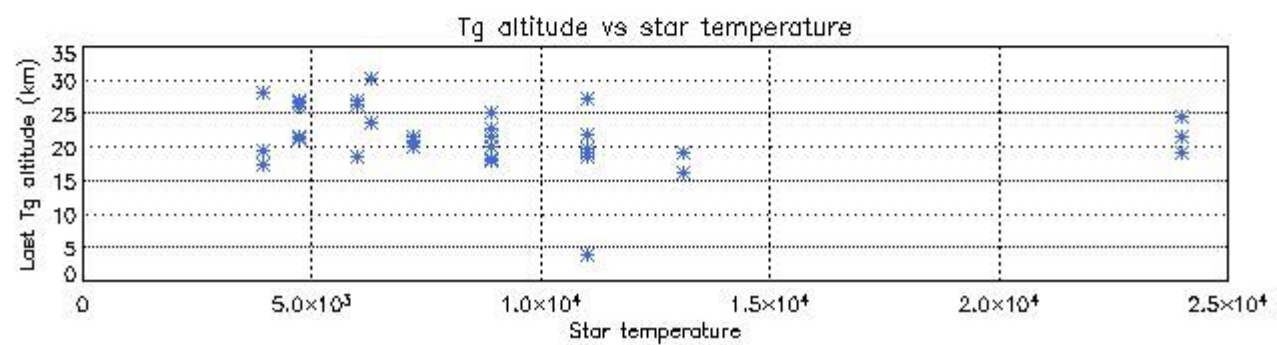
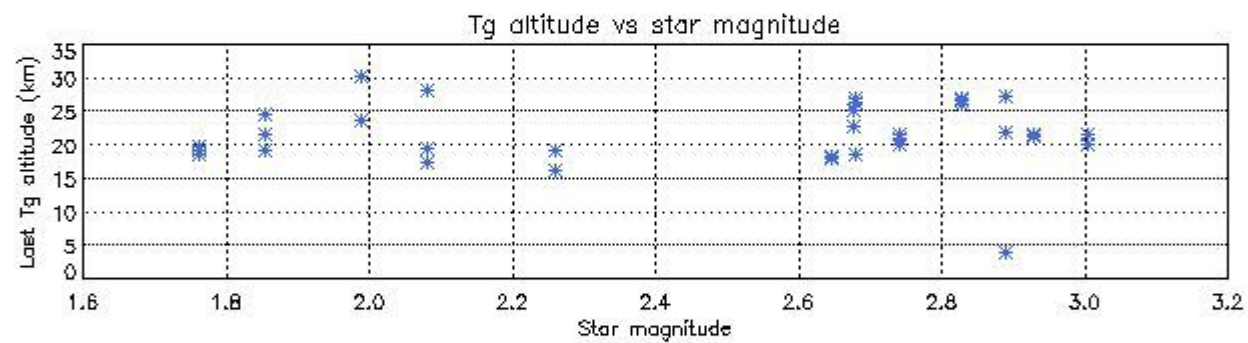
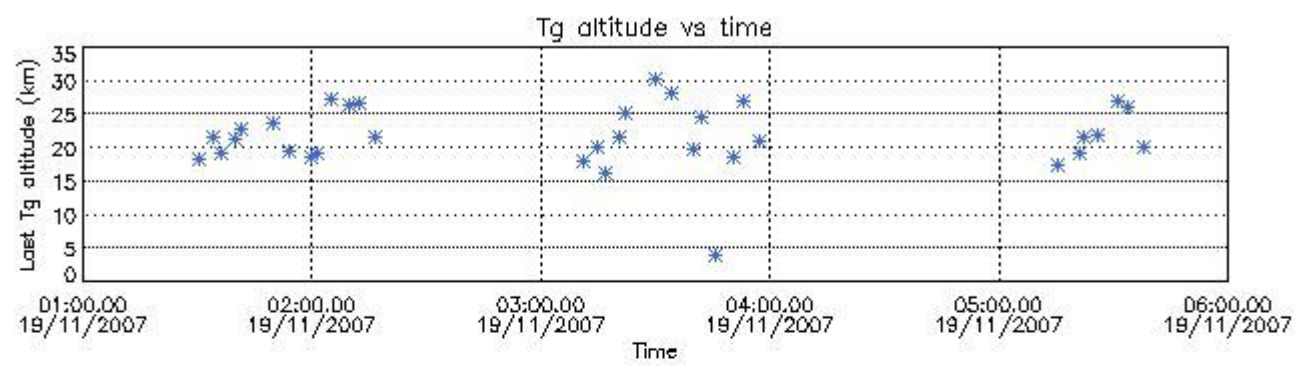
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



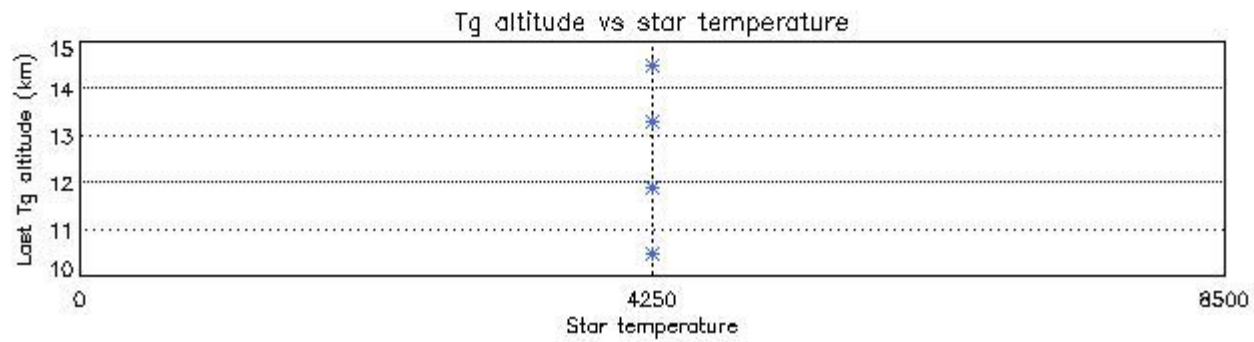
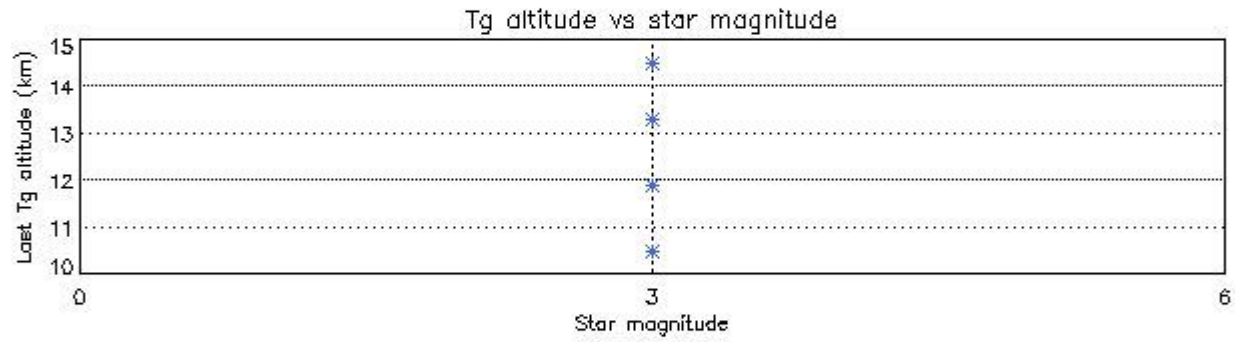
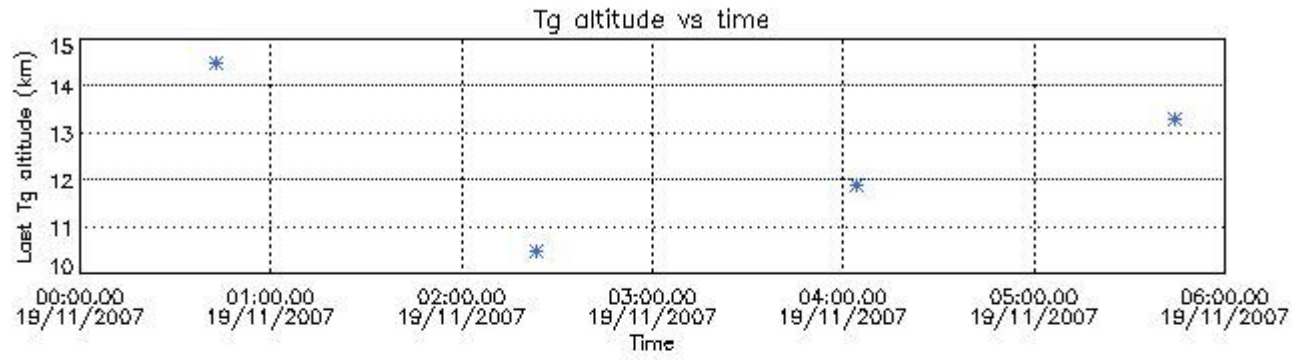
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

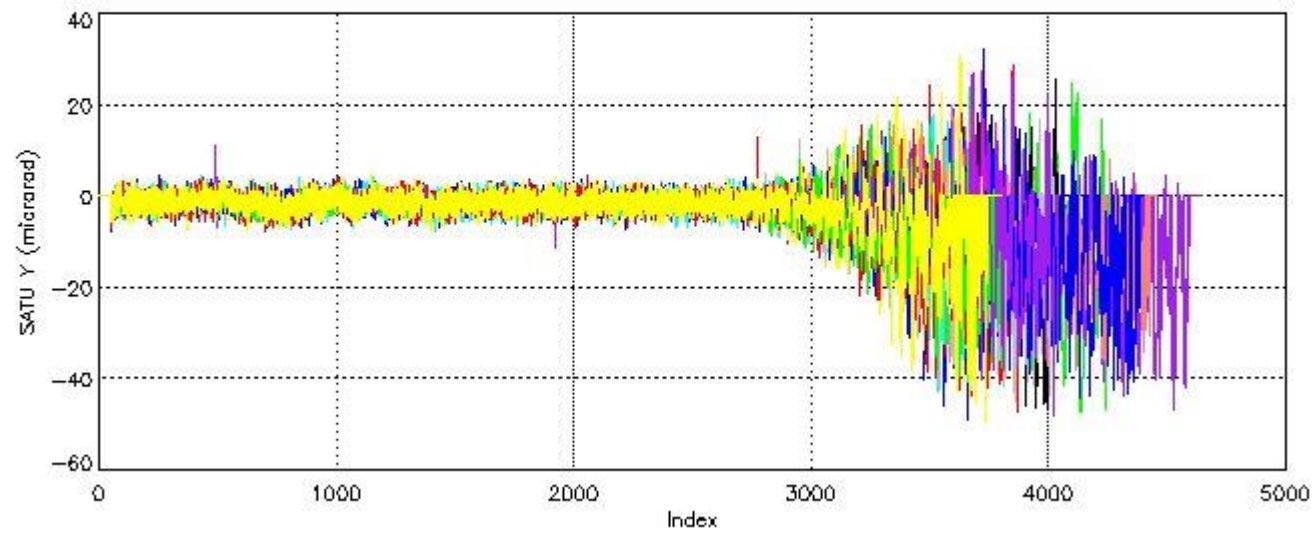
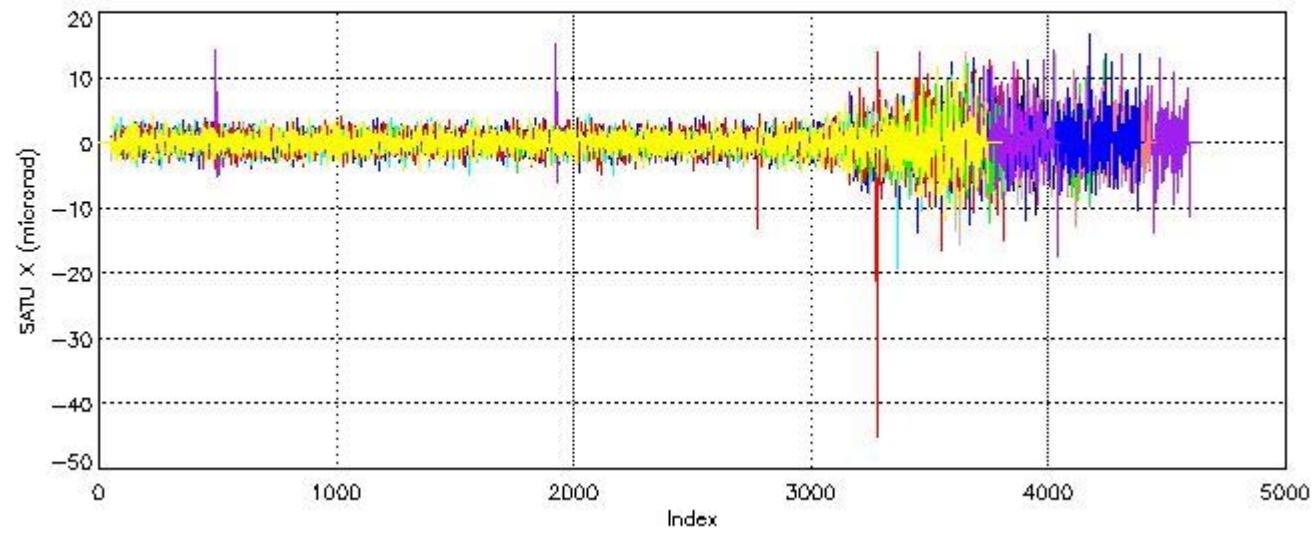


7. Star Acquisition and Tracking Unit (SATU)

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:	0.035777	-1.3861	0.0071008	-1.3824
St. deviation:	0.66495	1.3155	0.88167	1.4735
Maximum:	4.1000	4.3000	7.6000	6.3000
Minimum:	-4.1000	-7.7000	-7.8000	-9.2000

Number of data:	13450.	13450.	27350.	27350.
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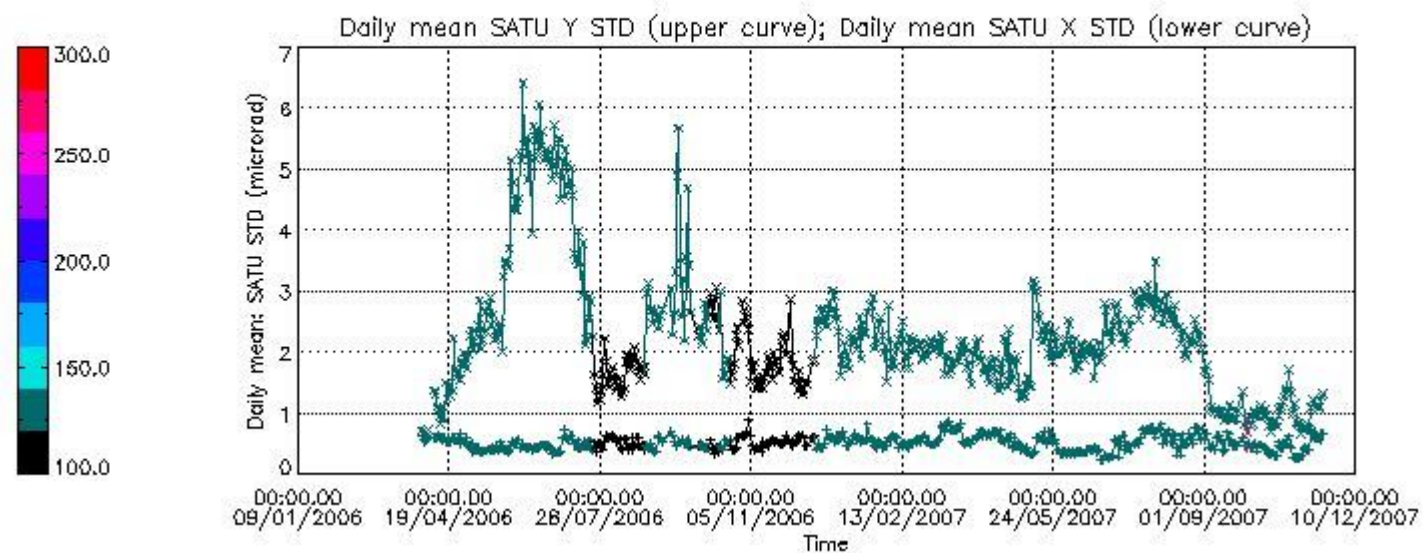
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

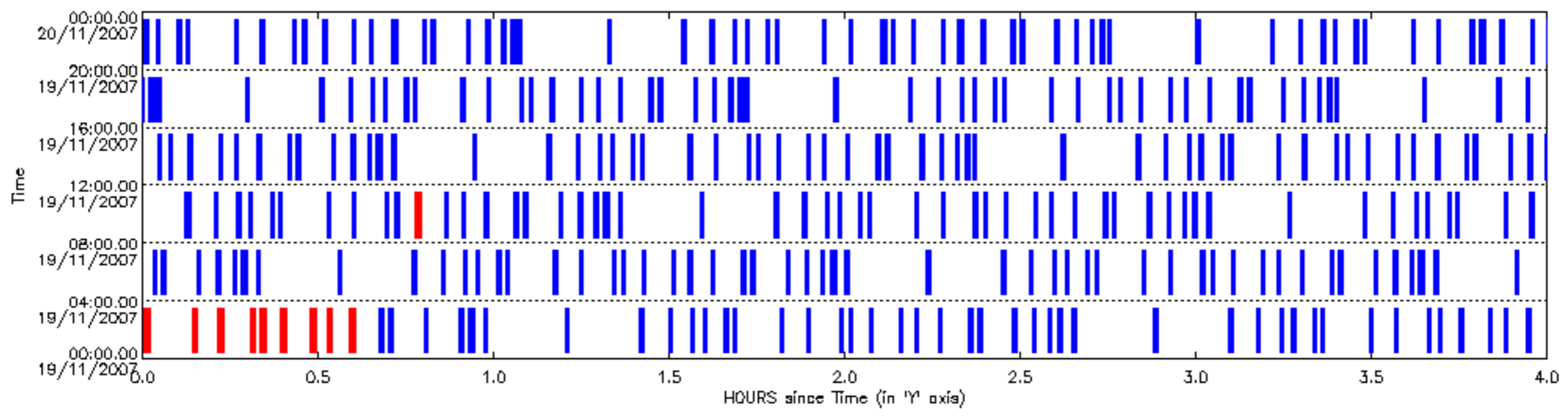
Lower curve: STD of SATU X axis

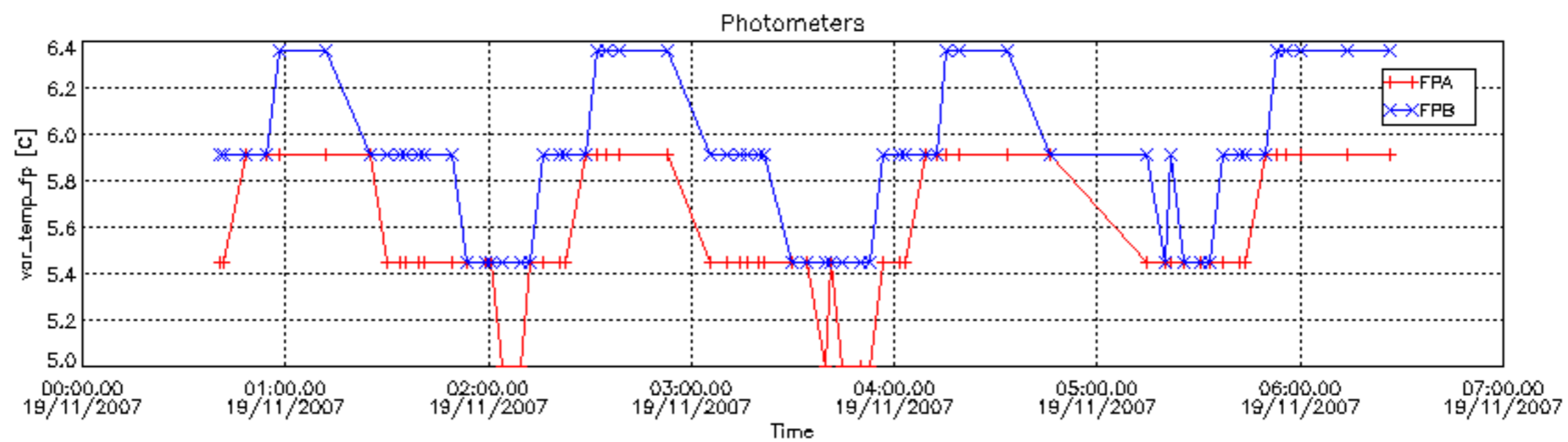
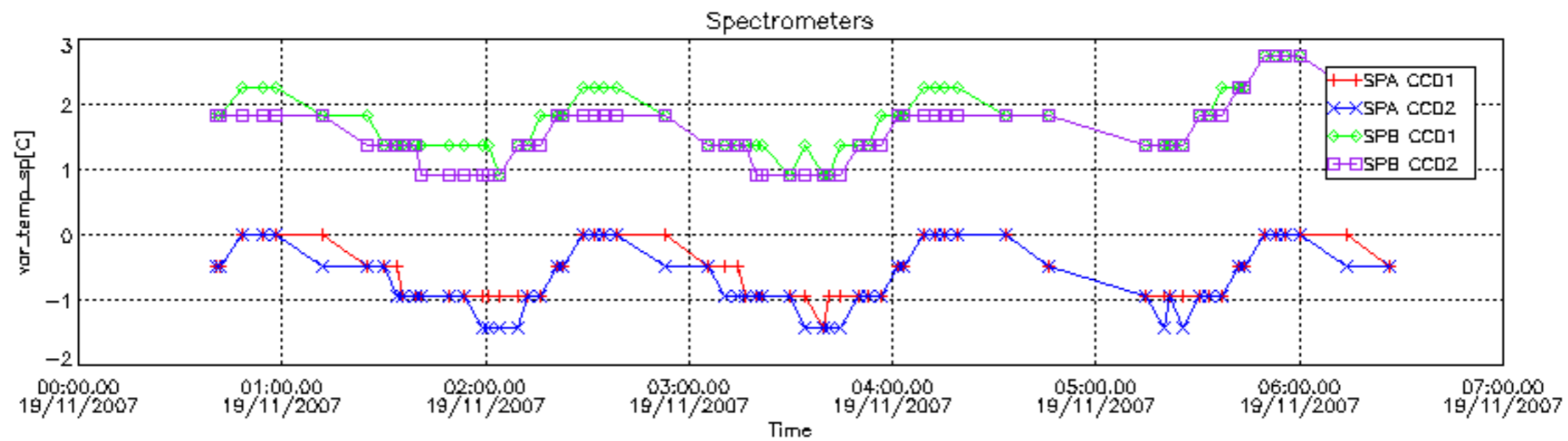


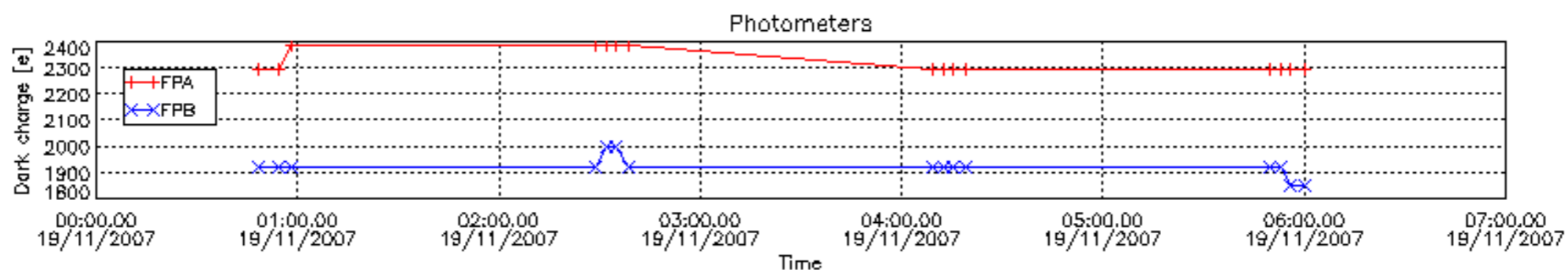
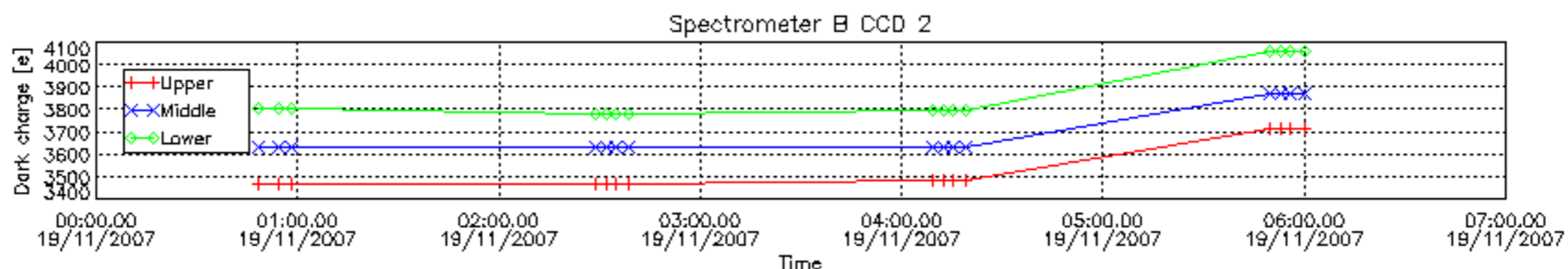
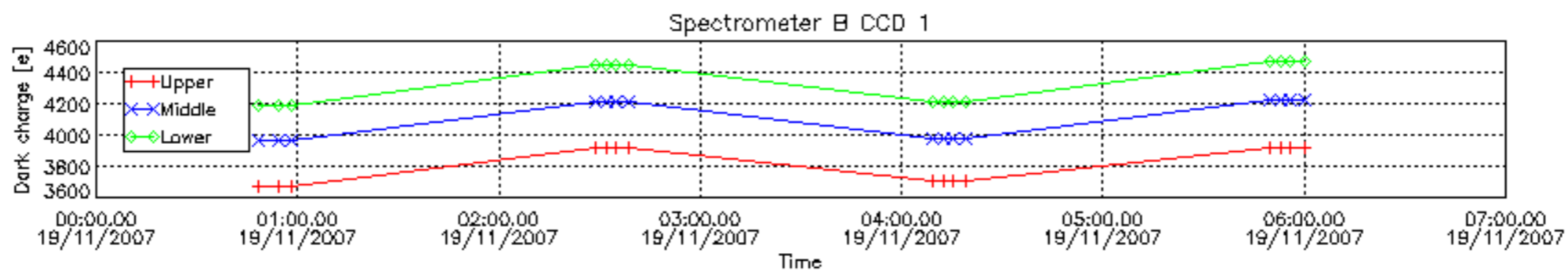
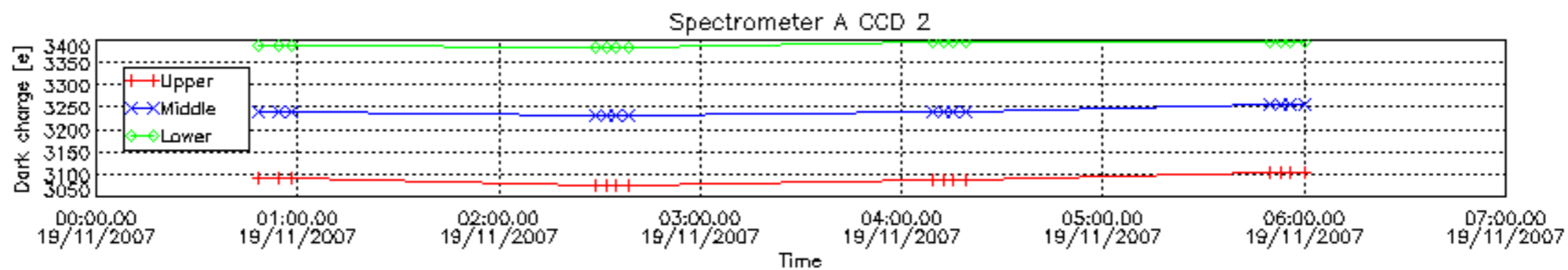
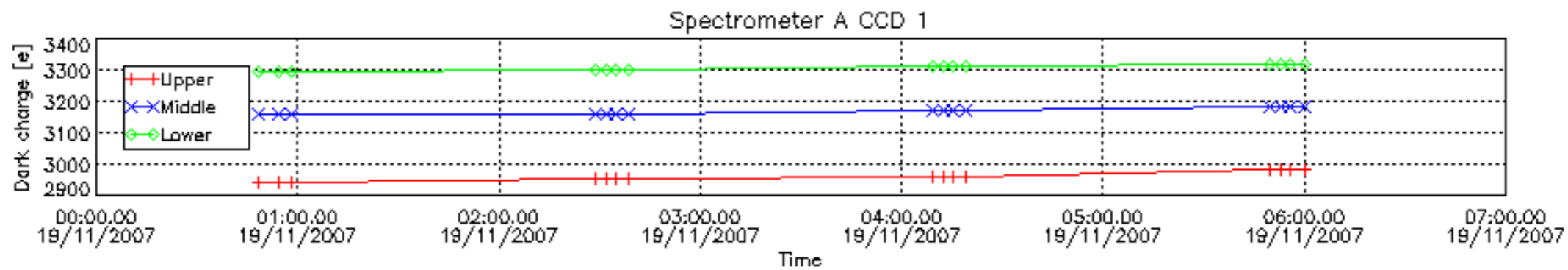
8. Auxiliary Data Files used for the production reported in section 2.4

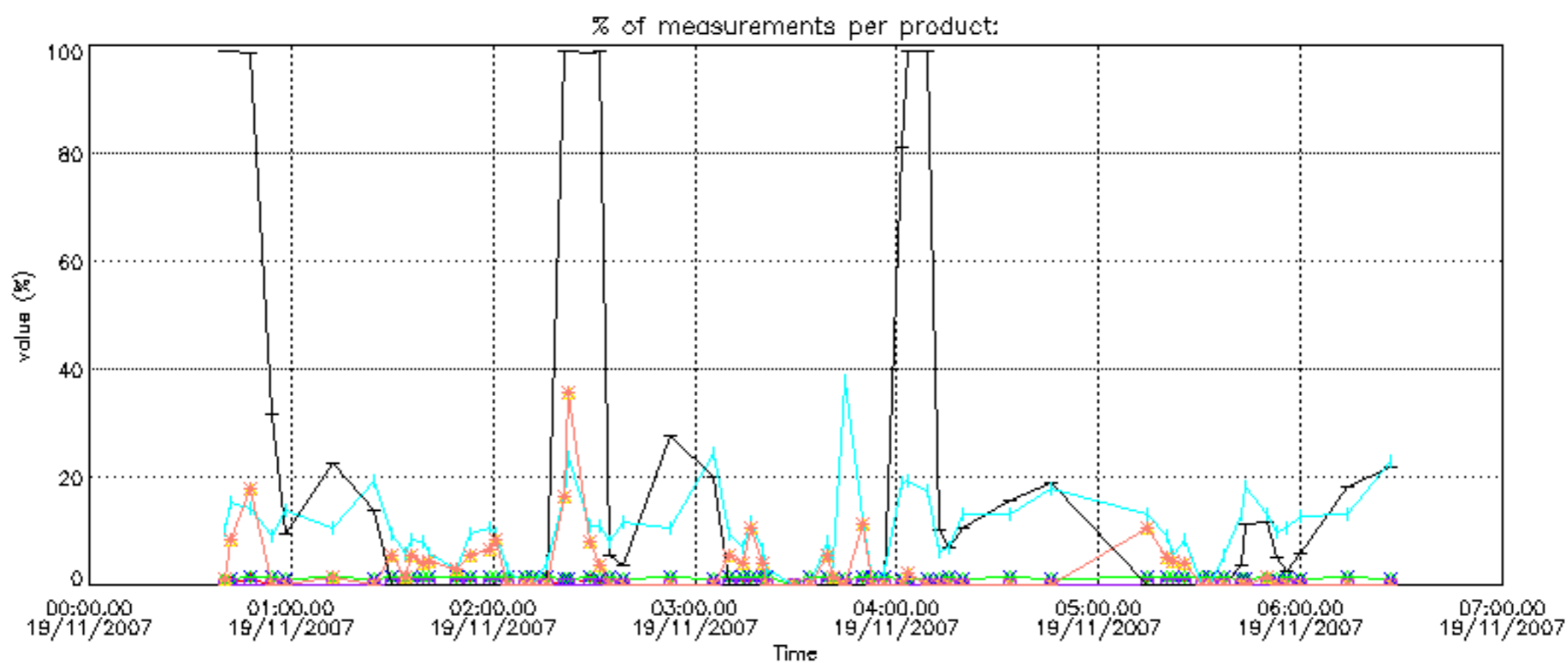
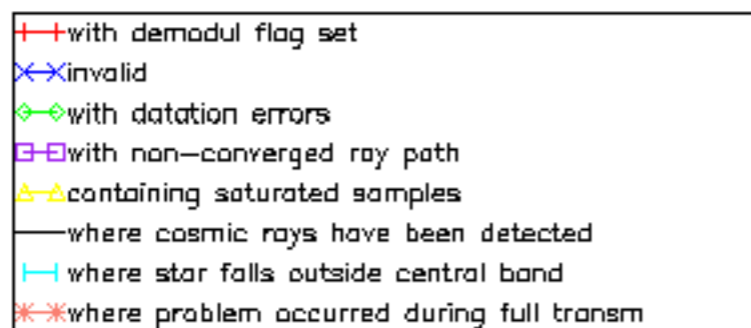
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	19-NOV-2007 00:40:27
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071114_162731_20071113_000000_20100101_000000	1	19-NOV-2007 00:40:27
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	19-NOV-2007 00:40:27
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	19-NOV-2007 00:40:27
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	19-NOV-2007 00:40:27
ECMWF_FILE	AUX_ECF_AXNECM20071118_063111_20071118_210000_20071119_090000	1	19-NOV-2007 00:40:27
ECMWF_FILE	AUX_ECF_AXNECM20071118_183110_20071119_030000_20071119_150000	35	19-NOV-2007 03:34:02
OPTIONAL_ECMWF_FILE	MISSING	1	19-NOV-2007 00:40:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071118_211419_000057382063_00286_29899_4588.N1	1	19-NOV-2007 00:40:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071119_003613_000054202063_00288_29901_4589.N1	20	19-NOV-2007 02:15:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071119_033133_000057382063_00290_29903_4591.N1	35	19-NOV-2007 03:34:02
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071119_051230_000057382063_00291_29904_4592.N1	50	19-NOV-2007 05:14:38

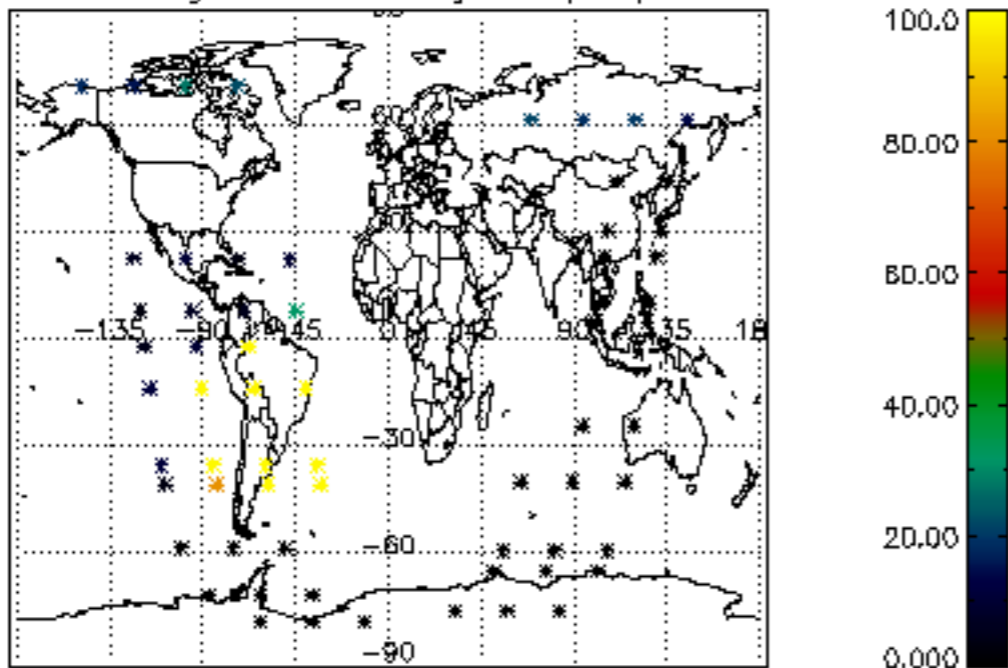




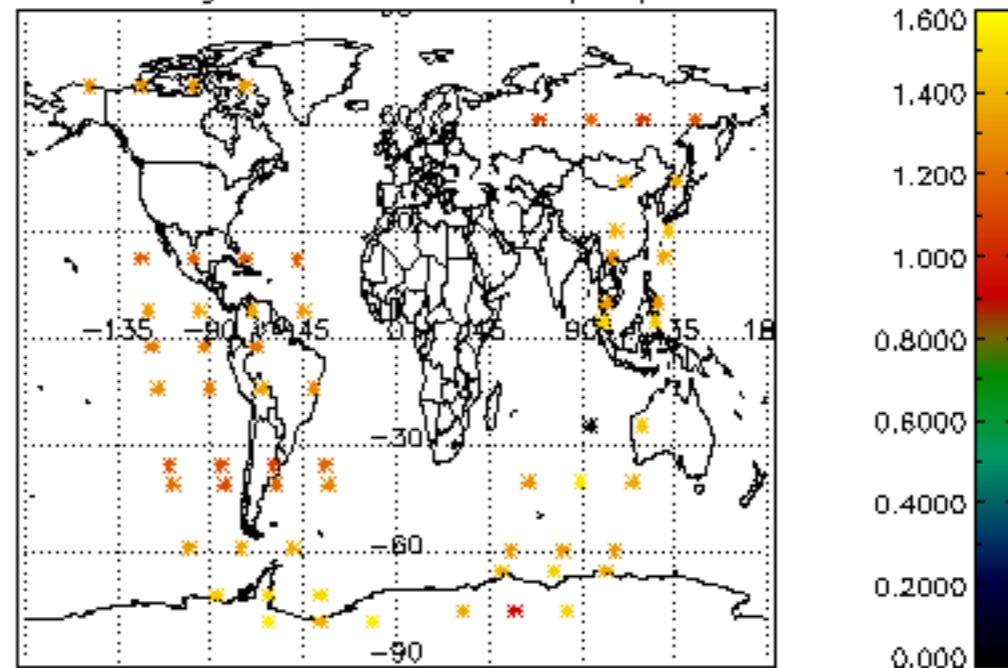




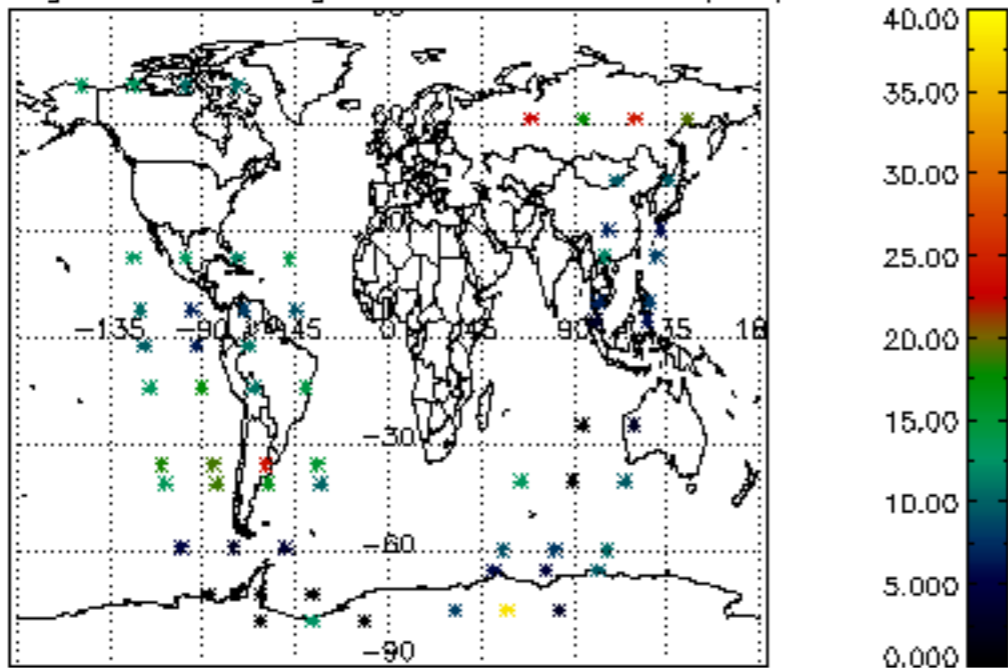
Percentage of cosmic ray hits per profile



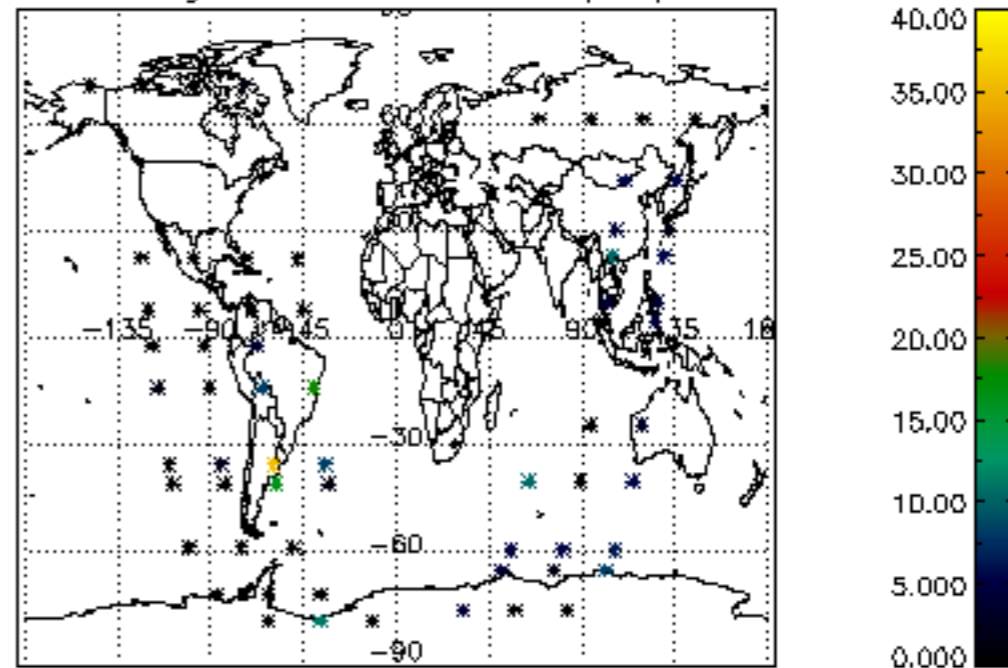
Percentage of datation errors per profile



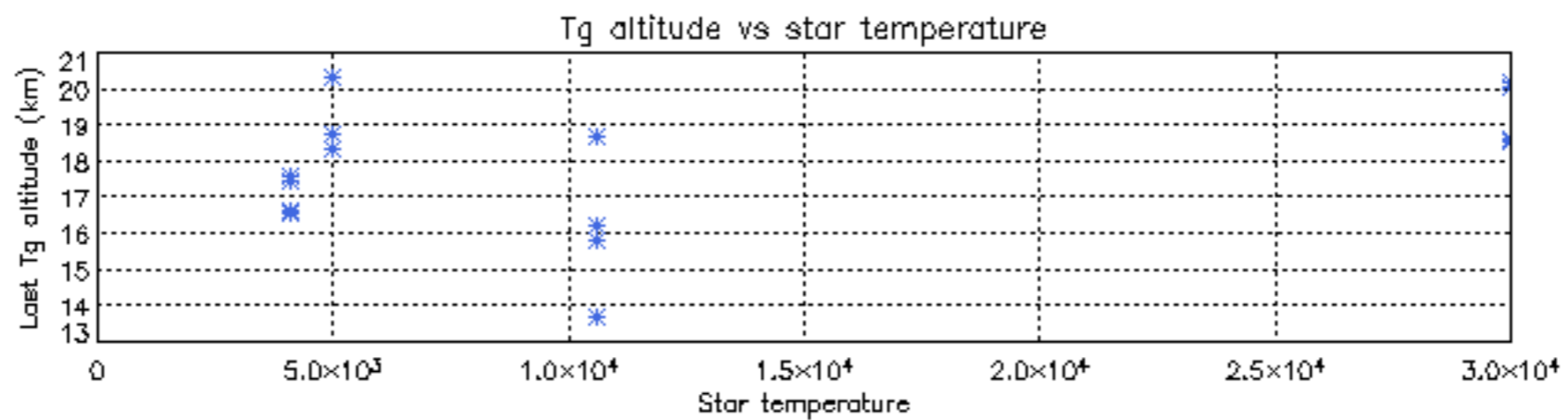
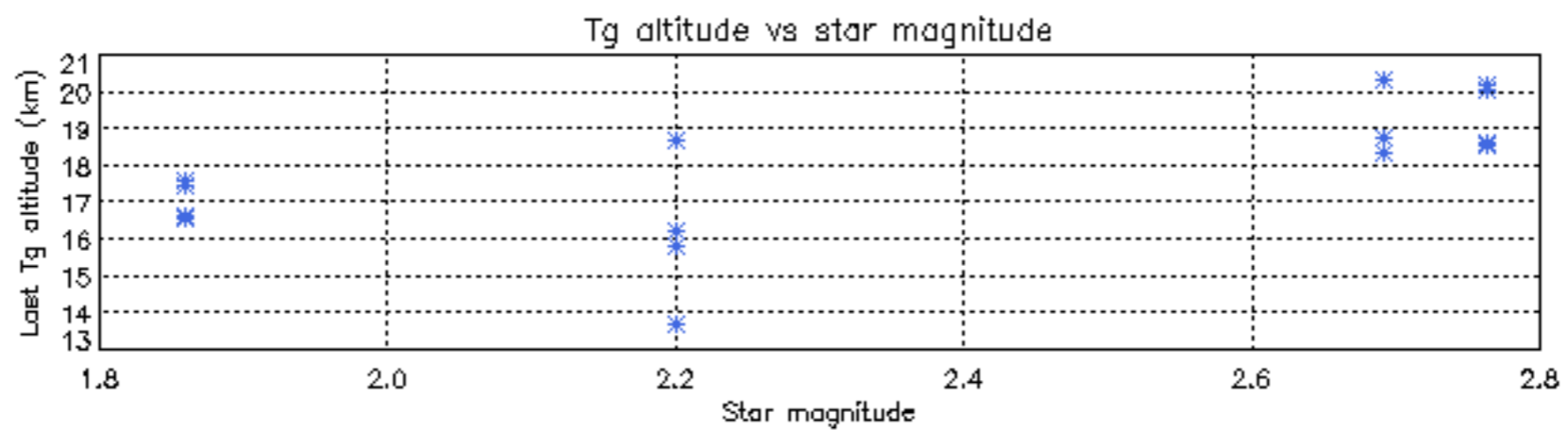
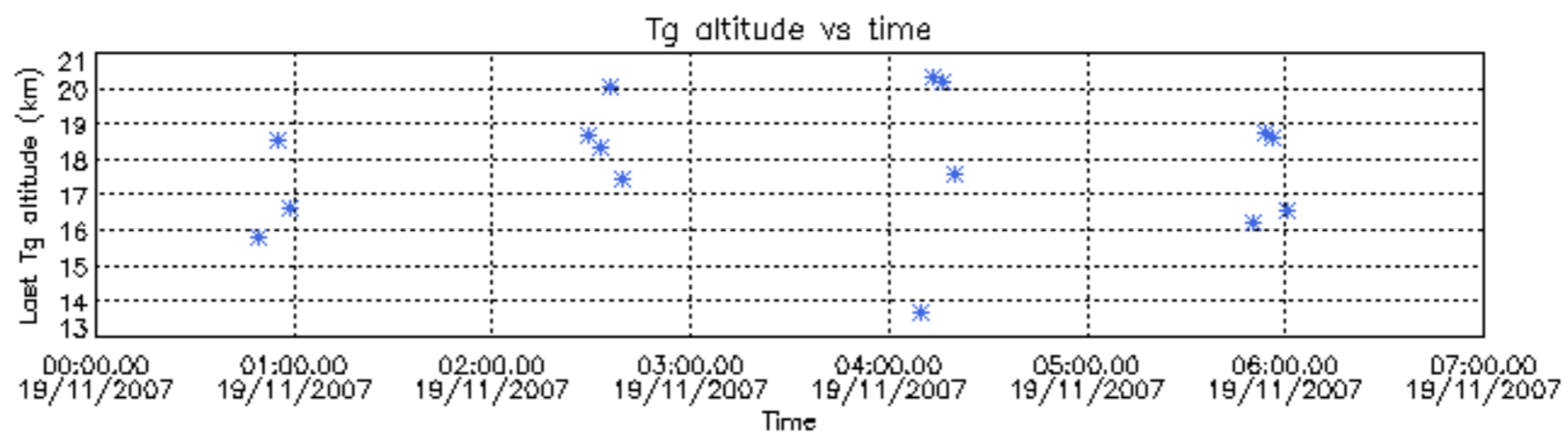
Percentage of star falling outside central band per profile



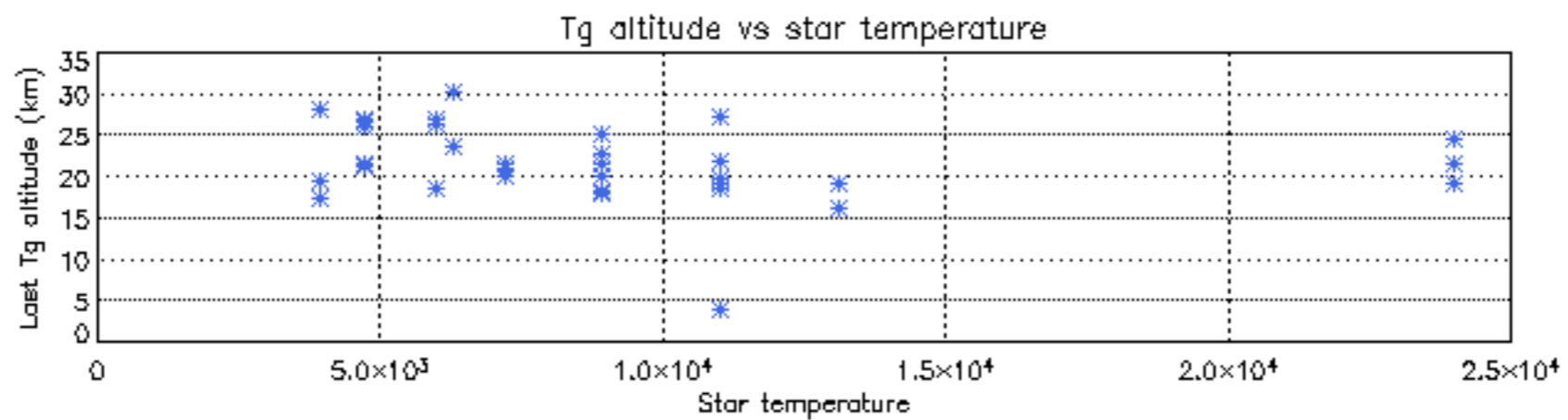
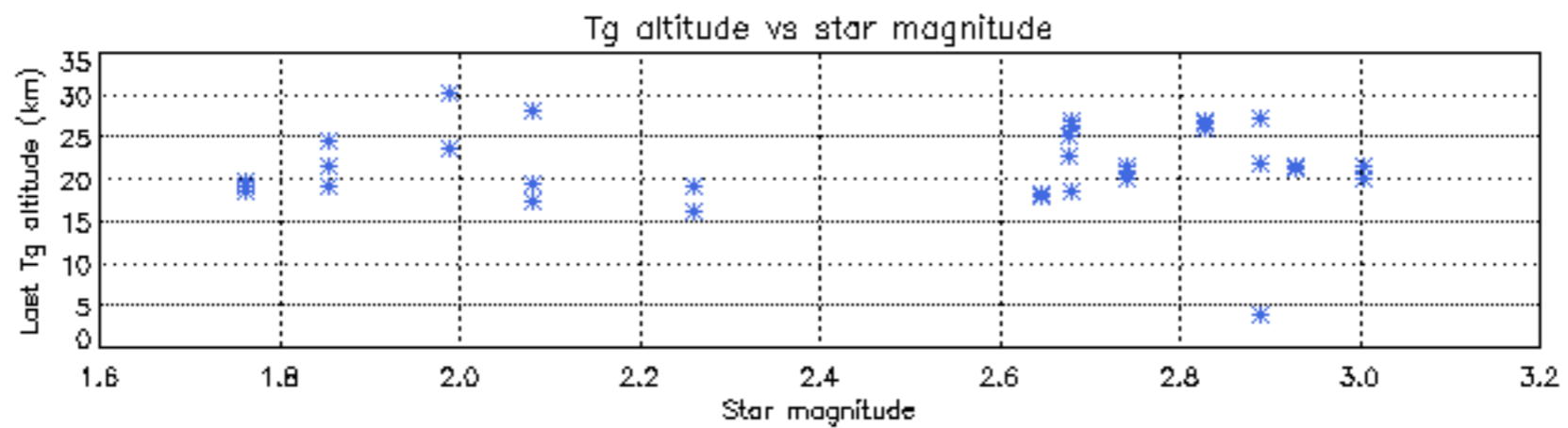
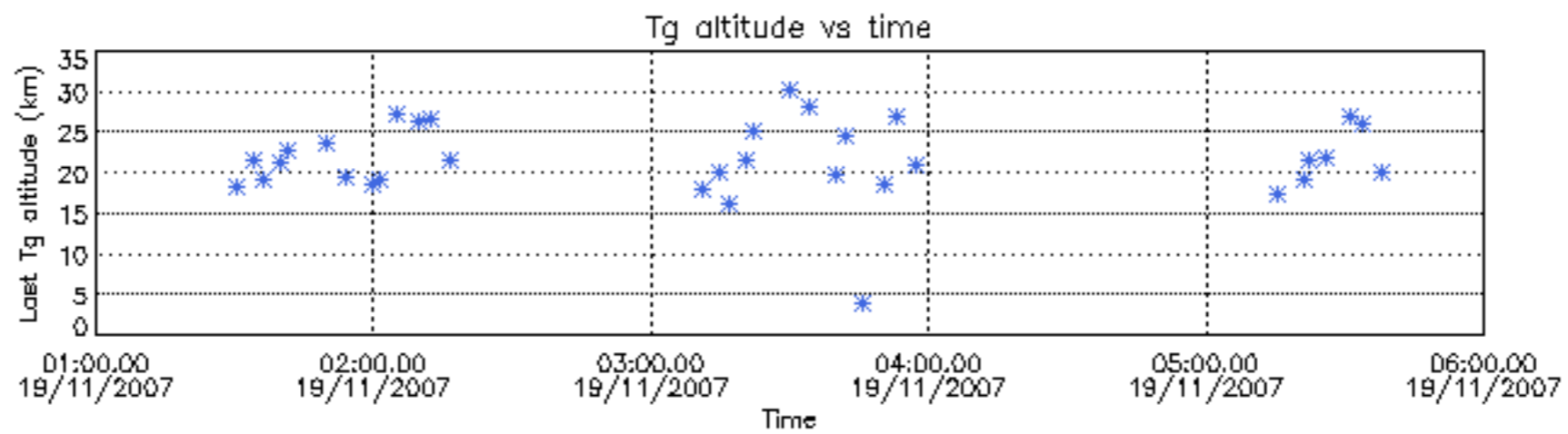
Percentage of saturation errors per profile



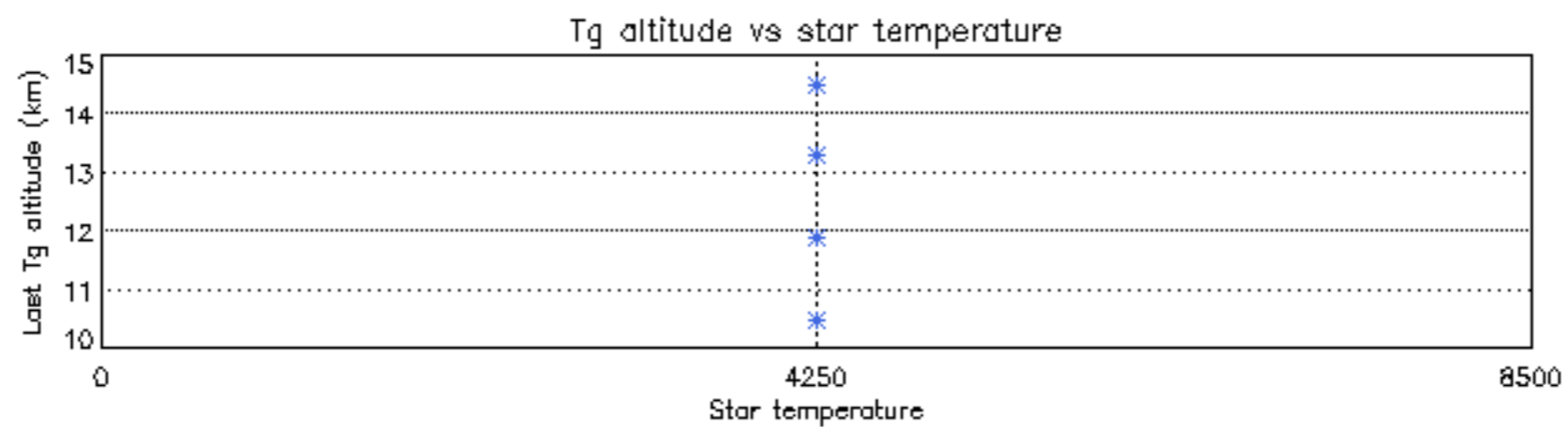
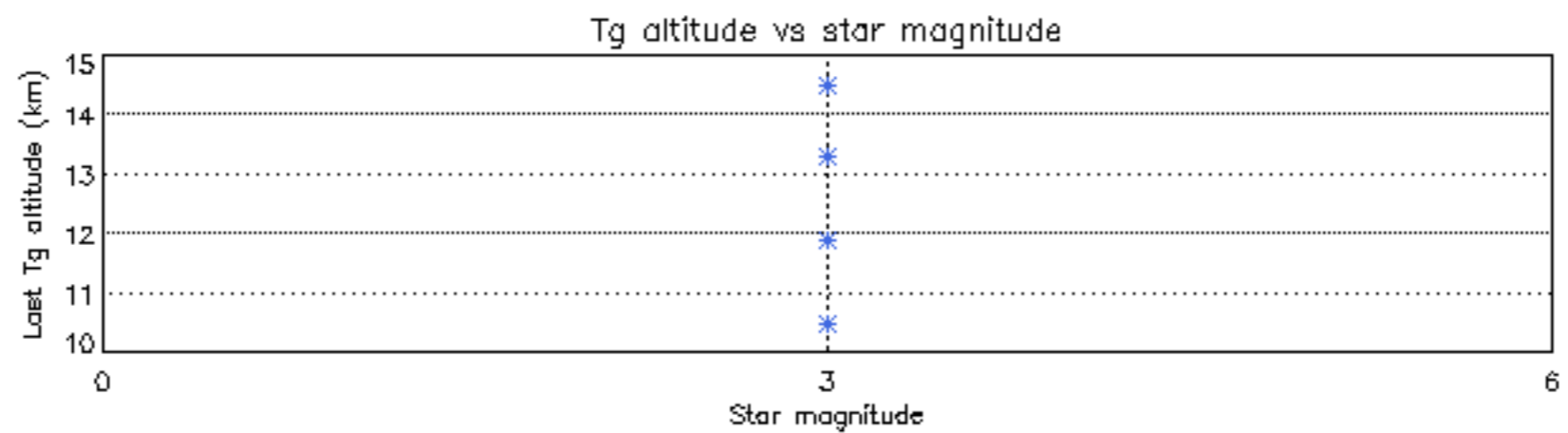
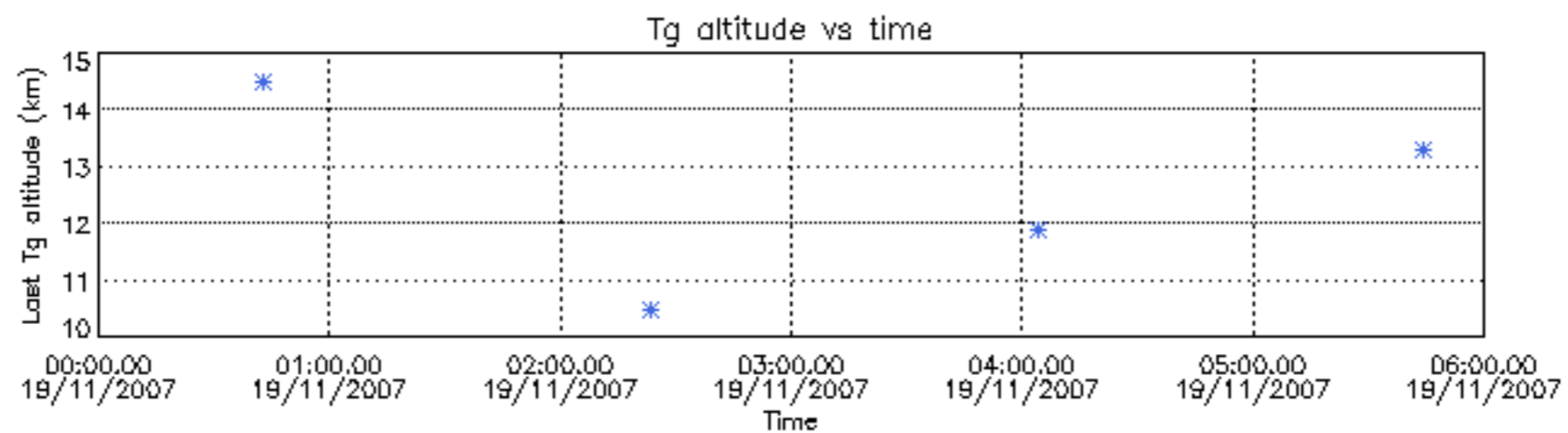
Tangent altitude at which the star is lost

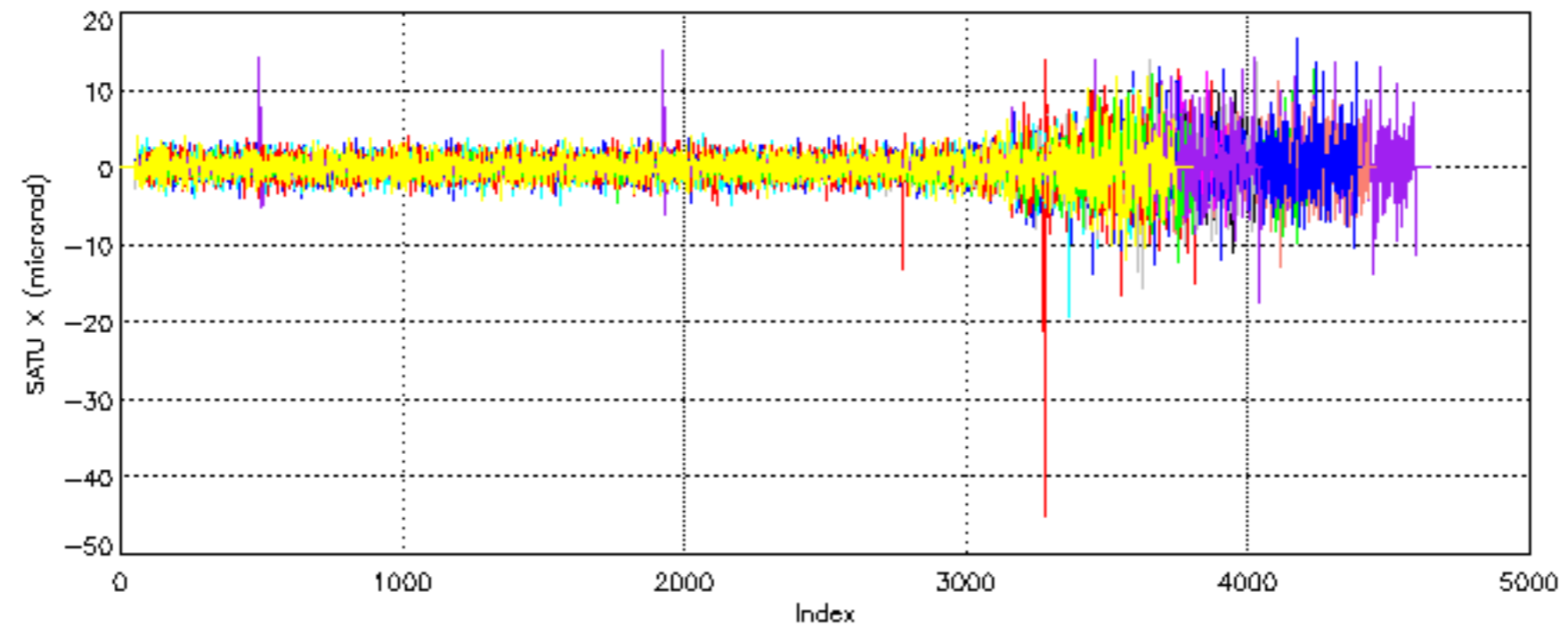


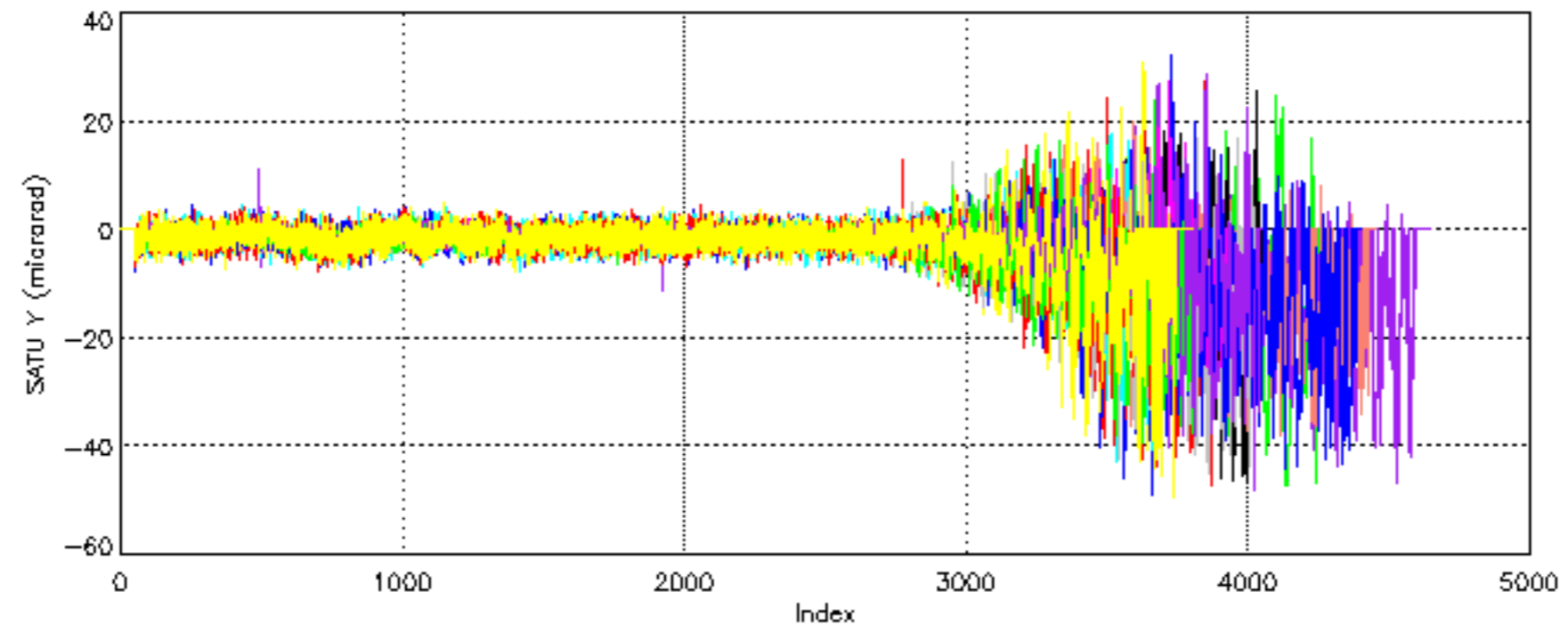
Tangent altitude at which the star is lost

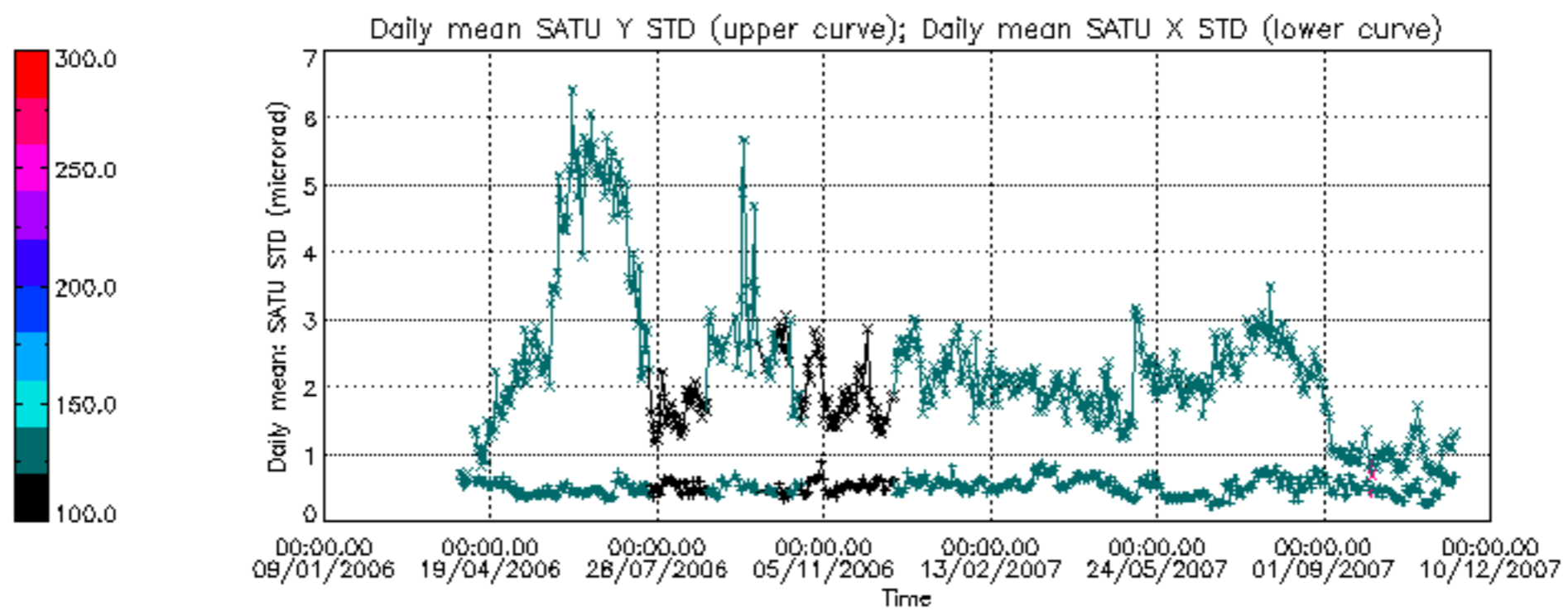


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20071101_001704_000047352063_00030_29643_4652.N1

1; -25.5; 01-NOV-2007 00:17:04; Dark ; 48.5; 65; Lam Vel ; 2.20; 4400;occ; 97; 0;29643
 2; 131.3; 01-NOV-2007 00:19:41; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;29644
 3; 212.3; 01-NOV-2007 00:21:02; Dark ; 46.5; 41; Eps Car ; 1.86; 4100;occ; 93; 0;29644
 4; 341.2; 01-NOV-2007 00:23:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29644
 5; 519.1; 01-NOV-2007 00:26:09; Dark ; 49.5; 2; Alp Car ;-0.74; 7000;occ; 99; 0;29644
 6; 1138.9; 01-NOV-2007 00:36:29; Dark ; 39.5; 157; The1Eri ; 2.91; 9300;occ; 79; 0;29644
 7; 2274.5; 01-NOV-2007 00:55:24; Bright; 40.0; 105; 6Bet Ari ; 2.64; 8900;occ; 80; 0;29644
 8; 2514.8; 01-NOV-2007 00:59:25; Bright; 38.0; 53; 43Bet And ; 2.05; 3300;occ; 76; 0;29644
 9; 2662.9; 01-NOV-2007 01:01:53; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;29644
 10; 2867.3; 01-NOV-2007 01:05:17; Bright; 35.5; 68; 18Alp Cas ; 2.22; 4500;occ; 71; 0;29644
 11; 2939.0; 01-NOV-2007 01:06:29; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 0;29644
 12; 3423.6; 01-NOV-2007 01:14:34; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;29644
 13; 3912.7; 01-NOV-2007 01:22:43; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;29644
 14; 4009.0; 01-NOV-2007 01:24:19; Bright; 56.0; 82; 48Bet UMa ; 2.37; 10600;occ; 112; 0;29644
 15; 4229.4; 01-NOV-2007 01:27:59; Bright; 56.0; 174; 52Psi UMa ; 3.00; 4400;occ; 112; 0;29644
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9; 4229.5; 01-NOV-2007 11:31:35; Bright; 39.0; 174; 52Psi UMA ; 3.00; 4400;occ; 78; 0;29650
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 14; 5095.6; 28-NOV-2007 09:16:30; Bright; 41.5; 121; 29Gam Vir ; 2.74; 7200;occ; 83; 0;30035
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6; 2747.6; 28-NOV-2007 11:58:34; Bright; 37.0; 175; 39Del Per ; 3.01; 19400;occ; 74; 0;30037
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23; 6820.4; 28-NOV-2007 13:06:27; Dark ; 44.0; 2; Alp Car ; -0.74; 7000;occ; 88; 0;30037

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7; 3422.0; 28-NOV-2007 15:31:00; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;30039
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4; -145.8; 30-NOV-2007 23:31:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;30072
5; -47.0; 30-NOV-2007 23:33:32; Dark ; 42.0; 26; Gam Cru ; 1.62; 2900;occ; 84; 0;30072
6; 82.4; 30-NOV-2007 23:35:42; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;30073
7; 201.9; 30-NOV-2007 23:37:41; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;30073
8; 369.2; 30-NOV-2007 23:40:29; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;30073
9; 481.0; 30-NOV-2007 23:42:20; Dark ; 44.0; 41; Eps Car ; 1.86; 4100;occ; 88; 0;30073
10; 803.3; 30-NOV-2007 23:47:43; Dark ; 58.0; 2; Alp Car ; -0.74; 7000;occ; 116; 0;30073
11; 1658.7; 01-DEC-2007 00:01:58; Dark ; 44.5; 165; 34Gam Eri ; 2.95; 3200;occ; 89; 0;30073
12; 1980.2; 01-DEC-2007 00:07:20; Dark ; 40.5; 94; 92Alp Cet ; 2.53; 3100;occ; 81; 0;30073
13; 2330.1; 01-DEC-2007 00:13:09; Bright; 37.5; 146; 25Eta Tau ; 2.87; 15200;occ; 75; 0;30073
14; 2472.6; 01-DEC-2007 00:15:32; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;30073
15; 2605.9; 01-DEC-2007 00:17:45; Bright; 36.5; 79; 26Bet Per ; 2.31; 13100;occ; 73; 0;30073
16; 2739.7; 01-DEC-2007 00:19:59; Bright; 35.5; 175; 39Del Per ; 3.01; 19400;occ; 71; 0;30073
17; 2818.8; 01-DEC-2007 00:21:18; Bright; 34.5; 160; 23Gam Per ; 2.93; 4700;occ; 69; 0;30073
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20; 4015.4; 01-DEC-2007 00:41:15; Bright; 39.5; 32; 77Eps UMa ; 1.76; 11000;occ; 79; 0;30073
21; 4138.7; 01-DEC-2007 00:43:18; Bright; 36.0; 39; 85Eta UMa ; 1.85; 24000;occ; 72; 0;30073
22; 4312.4; 01-DEC-2007 00:46:12; Bright; 33.5; 180; 27Gam Boo ; 3.04; 8000;occ; 67; 0;30073
23; 4644.1; 01-DEC-2007 00:51:43; Bright; 33.5; 3; 16Alp Boo ; -0.05; 4250;occ; 67; 0;30073
24; 4857.3; 01-DEC-2007 00:55:17; Bright; 40.0; 138; 47Eps Vir ; 2.83; 4700;occ; 80; 0;30073
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