

# GOMOS Daily Report 27-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	29DEC2007 05:45:33
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (27DEC2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (28DEC2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	1

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

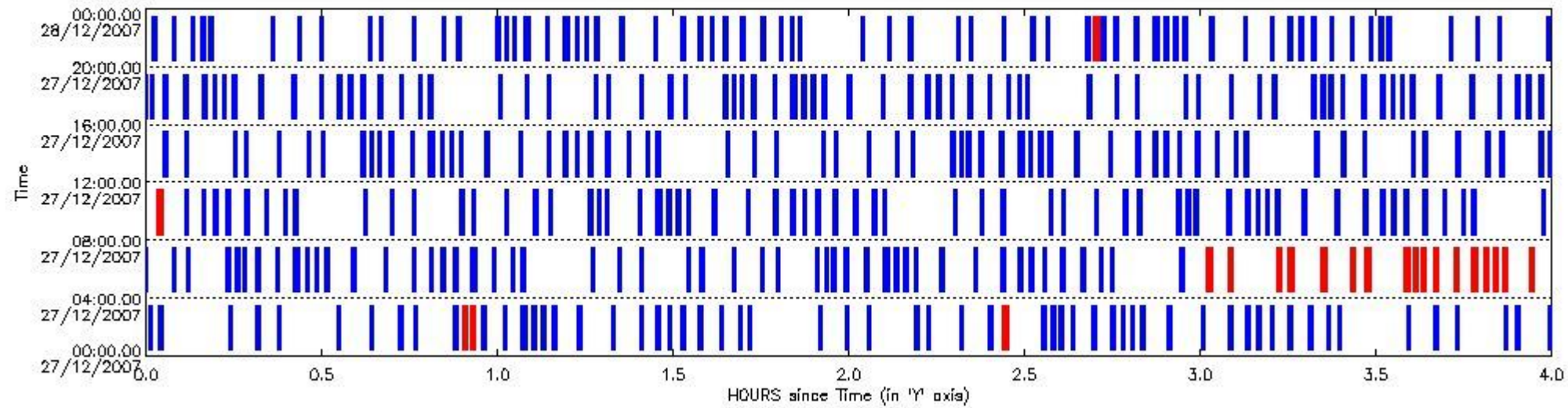
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
27-DEC-2007 00:53:57	AlpLup	78	30445
27-DEC-2007 00:55:12	ZetCen	95	30445
27-DEC-2007 02:26:13	9Alp2Lib	122	30446
27-DEC-2007 07:01:06	7BetUMi	60	30449
27-DEC-2007 07:04:46	14EtaDra	119	30449
27-DEC-2007 07:12:58	40ZetHer	133	30449
27-DEC-2007 07:15:02	5AlpCrB	67	30449
27-DEC-2007 07:20:39	24AlpSer	102	30449
27-DEC-2007 07:25:33	27BetLib	104	30449
27-DEC-2007 07:28:02	9Alp2Lib	122	30449
27-DEC-2007 07:34:46	5TheCen	54	30449
27-DEC-2007 07:36:22	AlpLup	78	30449
27-DEC-2007 07:37:38	ZetCen	95	30449
27-DEC-2007 07:39:43	Alp1Cen	4	30449
27-DEC-2007 07:43:17	Alp1Cru	12	30450

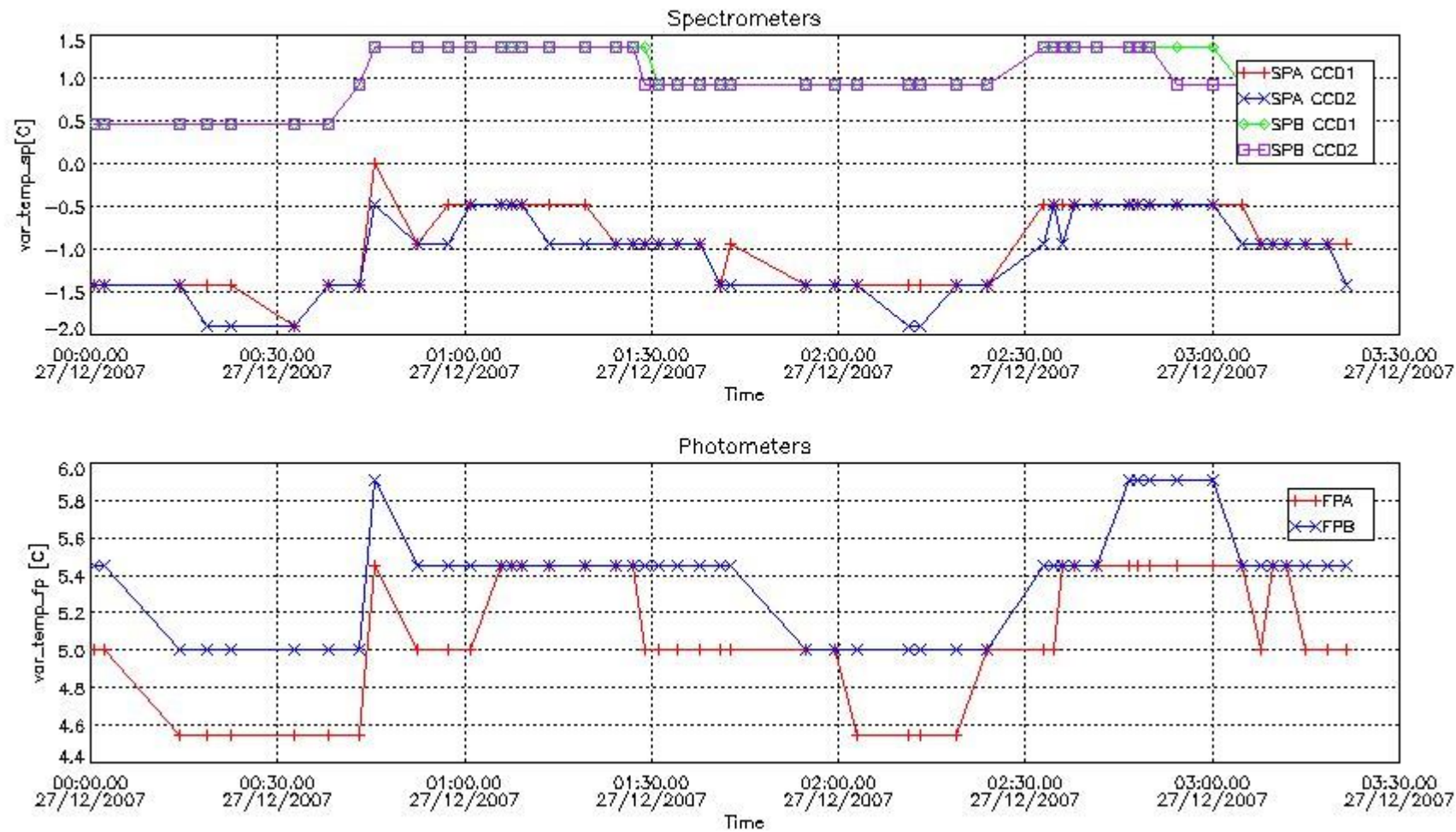
27-DEC-2007 07:46:23	DSA1029	0	30450
27-DEC-2007 07:48:18	UpsCar	159	30450
27-DEC-2007 07:49:54	lotCar	71	30450
27-DEC-2007 07:51:36	EpsCar	41	30450
27-DEC-2007 07:56:03	AlpCar	2	30450
27-DEC-2007 08:01:50	AlpCol	108	30450
27-DEC-2007 22:41:49	AlpLup	78	30458

## 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_1PNPDE20071227_000025_000000352064_00331_30445_3173.N1	27-DEC-2007 00:00:25	Bright	34.500	149	45Eps Per	2.8880	30000.	69	30445	No
2	GOM_TRA_1PNPDE20071227_000209_000000442064_00331_30445_3174.N1	27-DEC-2007 00:02:09	Bright	43.500	6	13Alp Aur	0.080000	3400.0	87	30445	No
3	GOM_TRA_1PNPDE20071227_001409_000000352064_00331_30445_3175.N1	27-DEC-2007 00:14:09	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	30445	No
4	GOM_TRA_1PNPDE20071227_001844_000000352064_00331_30445_3176.N1	27-DEC-2007 00:18:44	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	30445	No
5	GOM_TRA_1PNPDE20071227_002223_000000362064_00331_30445_3177.N1	27-DEC-2007 00:22:23	Bright	36.000	119	14Eta Dra	2.7270	4700.0	72	30445	No
6	GOM_TRA_1PNPDE20071227_003238_000000362064_00331_30445_3178.N1	27-DEC-2007 00:32:38	Bright	35.500	67	5Alp CrB	2.2210	11000.	71	30445	No
7	GOM_TRA_1PNPDE20071227_003816_000000342064_00331_30445_3179.N1	27-DEC-2007 00:38:16	Bright	33.500	102	24Alp Ser	2.6000	4250.0	67	30445	No
8	GOM_TRA_1PNPDE20071227_004309_000000372064_00331_30445_3180.N1	27-DEC-2007 00:43:09	Bright	36.500	104	27Bet Lib	2.6140	13100.	73	30445	No
9	GOM_TRA_1PNPDE20071227_004538_000000412064_00331_30445_3313.N1	27-DEC-2007 00:45:38	Bright	41.000	122	9Alp2Lib	2.7470	9700.0	82	30445	Yes
10	GOM_TRA_1PNPDE20071227_005221_000000512064_00331_30445_3314.N1	27-DEC-2007 00:52:21	Dark	51.000	54	5The Cen	2.0550	4500.0	102	30445	No
11	GOM_TRA_1PNPDE20071227_005719_000000452064_00331_30445_3315.N1	27-DEC-2007 00:57:19	Dark	44.500	4	Alp1Cen	-0.010000	5800.0	89	30445	No
12	GOM_TRA_1PNPDE20071227_010053_000000402064_00332_30446_3316.N1	27-DEC-2007 01:00:53	Dark	40.000	12	Alp1Cru	0.77500	30000.	80	30446	No
13	GOM_TRA_1PNPDE20071227_010554_000000392064_00332_30446_3317.N1	27-DEC-2007 01:05:54	Dark	39.000	159	Ups Car	2.9200	7200.0	78	30446	No
14	GOM_TRA_1PNPDE20071227_010729_000000432064_00332_30446_3318.N1	27-DEC-2007 01:07:29	Dark	43.000	71	lot Car	2.2460	7700.0	86	30446	No
15	GOM_TRA_1PNPDE20071227_010912_000000462064_00332_30446_3319.N1	27-DEC-2007 01:09:12	Dark	46.000	41	Eps Car	1.8600	4100.0	92	30446	No
16	GOM_TRA_1PNPDE20071227_011339_000000502064_00332_30446_3320.N1	27-DEC-2007 01:13:39	Dark	49.500	2	Alp Car	-0.73600	7000.0	99	30446	No
17	GOM_TRA_1PNPDE20071227_011926_000000382064_00332_30446_3321.N1	27-DEC-2007 01:19:26	Straylight	37.500	108	Alp Col	2.6520	15200.	75	30446	No
18	GOM_TRA_1PNPDE20071227_012409_000000442064_00332_30446_3322.N1	27-DEC-2007 01:24:09	Straylight	43.500	101	11Alp Lep	2.5820	7000.0	87	30446	No
19	GOM_TRA_1PNPDE20071227_012703_000000442064_00332_30446_3323.N1	27-DEC-2007 01:27:03	Straylight	44.000	7	19Bet Ori	0.10000	14000.	88	30446	No
20	GOM_TRA_1PNPDE20071227_012901_000000442064_00332_30446_3324.N1	27-DEC-2007 01:29:01	Straylight	44.000	30	46Eps Ori	1.6940	30000.	88	30446	No
21	GOM_TRA_1PNPDE20071227_013115_000000432064_00332_30446_3325.N1	27-DEC-2007 01:31:15	Twilight_stray	43.000	27	24Gam Ori	1.6360	26000.	86	30446	No
22	GOM_TRA_1PNPDE20071227_013414_000000502064_00332_30446_3326.N1	27-DEC-2007 01:34:14	Bright	49.500	13	87Alp Tau	0.86700	3800.0	99	30446	No
23	GOM_TRA_1PNPDE20071227_013749_000000402064_00332_30446_3327.N1	27-DEC-2007 01:37:49	Bright	40.000	28	12Bet Tau	1.6500	15200.	80	30446	No
24	GOM_TRA_1PNPDE20071227_014101_000000332064_00332_30446_3328.N1	27-DEC-2007 01:41:01	Bright	33.000	149	45Eps Per	2.8880	30000.	66	30446	No
25	GOM_TRA_1PNPDE20071227_014245_000000402064_00332_30446_3329.N1	27-DEC-2007 01:42:45	Bright	40.000	6	13Alp Aur	0.080000	3400.0	80	30446	No
26	GOM_TRA_1PNPDE20071227_015445_000000352064_00332_30446_3330.N1	27-DEC-2007 01:54:45	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	30446	No
27	GOM_TRA_1PNPDE20071227_015920_000000372064_00332_30446_3331.N1	27-DEC-2007 01:59:20	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	30446	No
28	GOM_TRA_1PNPDE20071227_020259_000000352064_00332_30446_3332.N1	27-DEC-2007 02:02:59	Bright	35.000	119	14Eta Dra	2.7270	4700.0	70	30446	No
29	GOM_TRA_1PNPDE20071227_021111_000000502064_00332_30446_3333.N1	27-DEC-2007 02:11:11	Bright	50.000	133	40Zet Her	2.8070	6000.0	100	30446	No
30	GOM_TRA_1PNPDE20071227_021315_000000362064_00332_30446_3334.N1	27-DEC-2007 02:13:15	Bright	35.500	67	5Alp CrB	2.2210	11000.	71	30446	No
31	GOM_TRA_1PNPDE20071227_021852_000000342064_00332_30446_3335.N1	27-DEC-2007 02:18:52	Bright	33.500	102	24Alp Ser	2.6000	4250.0	67	30446	No
32	GOM_TRA_1PNPDE20071227_022345_000000542064_00332_30446_3465.N1	27-DEC-2007 02:23:45	Bright	54.000	104	27Bet Lib	2.6140	13100.	108	30446	No
33	GOM_TRA_1PNPDE20071227_023258_000000462064_00332_30446_3466.N1	27-DEC-2007 02:32:58	Dark	45.500	54	5The Cen	2.0550	4500.0	91	30446	No
34	GOM_TRA_1PNPDE20071227_023434_000000382064_00332_30446_3467.N1	27-DEC-2007 02:34:34	Dark	37.500	78	Alp Lup	2.3040	28000.	75	30446	No
35	GOM_TRA_1PNPDE20071227_023550_000000392064_00332_30446_3468.N1	27-DEC-2007 02:35:50	Dark	38.500	95	Zet Cen	2.5450	26000.	77	30446	No
36	GOM_TRA_1PNPDE20071227_023755_000000412064_00332_30446_3469.N1	27-DEC-2007 02:37:55	Dark	40.500	4	Alp1Cen	-0.010000	5800.0	81	30446	No
37	GOM_TRA_1PNPDE20071227_024129_000000412064_00333_30447_3470.N1	27-DEC-2007 02:41:29	Dark	40.500	12	Alp1Cru	0.77500	30000.	81	30447	No
38	GOM_TRA_1PNPDE20071227_024630_000000382064_00333_30447_3471.N1	27-DEC-2007 02:46:30	Dark	38.000	159	Ups Car	2.9200	7200.0	76	30447	No
39	GOM_TRA_1PNPDE20071227_024806_000000412064_00333_30447_3472.N1	27-DEC-2007 02:48:06	Dark	41.000	71	lot Car	2.2460	7700.0	82	30447	No
40	GOM_TRA_1PNPDE20071227_024948_000000442064_00333_30447_3473.N1	27-DEC-2007 02:49:48	Dark	43.500	41	Eps Car	1.8600	4100.0	87	30447	No
41	GOM_TRA_1PNPDE20071227_025415_000000532064_00333_30447_3474.N1	27-DEC-2007 02:54:15	Dark	53.000	2	Alp Car	-0.73600	7000.0	106	30447	No
42	GOM_TRA_1PNPDE20071227_030003_000000372064_00333_30447_3475.N1	27-DEC-2007 03:00:03	Straylight	37.000	108	Alp Col	2.6520	15200.	74	30447	No
43	GOM_TRA_1PNPDE20071227_030445_000000412064_00333_30447_3476.N1	27-DEC-2007 03:04:45	Straylight	40.500	101	11Alp Lep	2.5820	7000.0	81	30447	No
44	GOM_TRA_1PNPDE20071227_030739_000000492064_00333_30447_3477.N1	27-DEC-2007 03:07:39	Straylight	48.500	7	19Bet Ori	0.10000	14000.	97	30447	No
45	GOM_TRA_1PNPDE20071227_030937_000000452064_00333_30447_3478.N1	27-DEC-2007 03:09:37	Straylight	44.500	30	46Eps Ori	1.6940	30000.	89	30447	No
46	GOM_TRA_1PNPDE20071227_031151_000000442064_00333_30447_3479.N1	27-DEC-2007 03:11:51	Twilight_stray	43.500	27	24Gam Ori	1.6360	26000.	87	30447	No
47	GOM_TRA_1PNPDE20071227_031450_000000522064_00333_30447_3480.N1	27-DEC-2007 03:14:50	Bright	52.000	13	87Alp Tau	0.86700	3800.0	104	30447	No

48	GOM_TRA_1PNPDE20071227_031825_00000402064_00333_30447_3481.N1	27-DEC-2007 03:18:25	Bright	39.500	28	12Bet Tau	1.6500	15200.	79	30447	No
49	GOM_TRA_1PNPDE20071227_032137_00000342064_00333_30447_3482.N1	27-DEC-2007 03:21:37	Bright	34.000	149	45Eps Per	2.8880	30000.	68	30447	No

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



### 4. Overview of dark signal processing per product

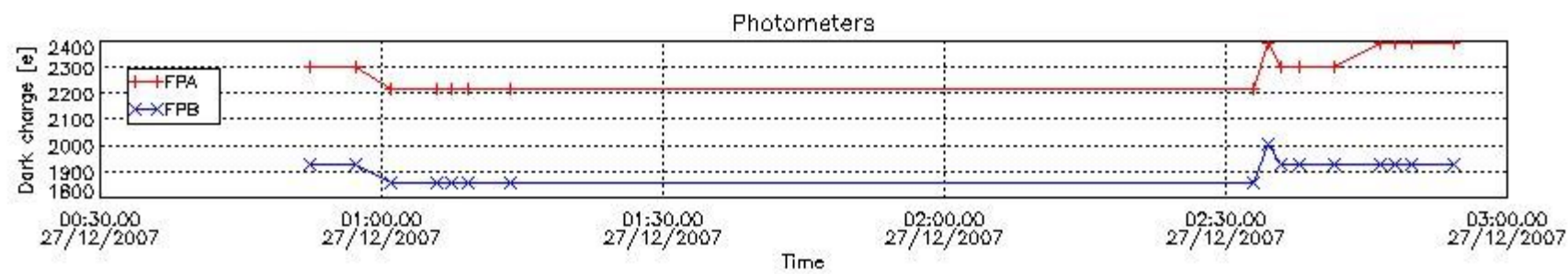
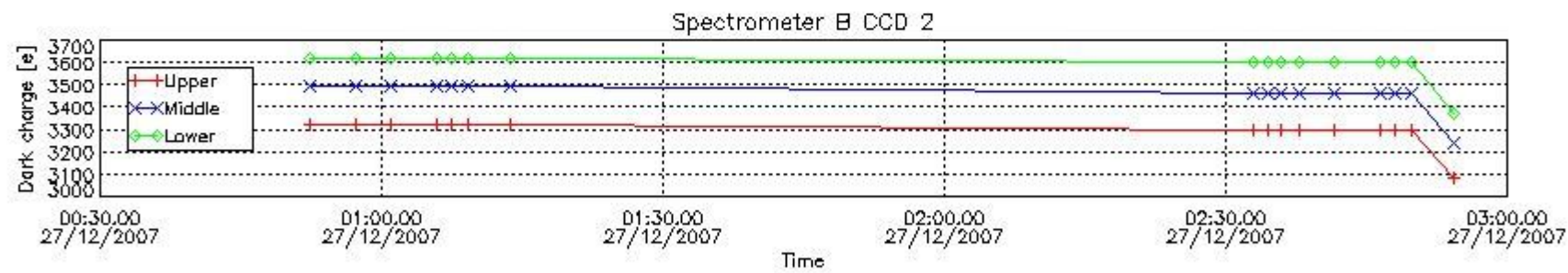
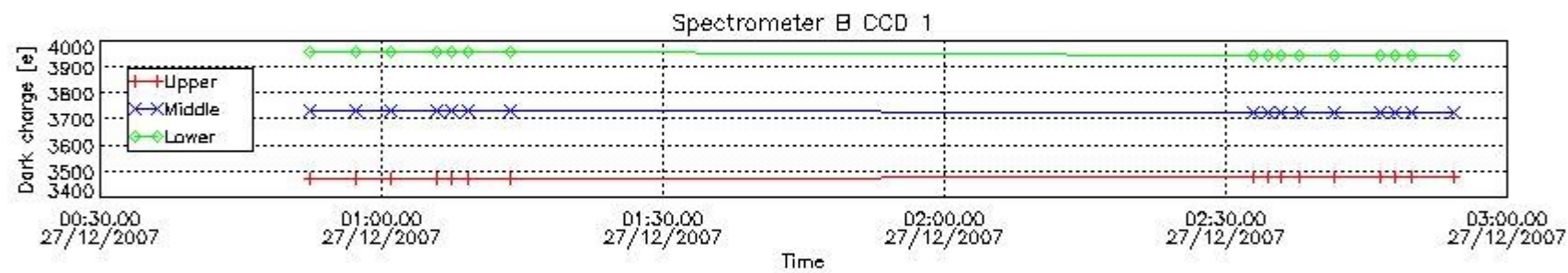
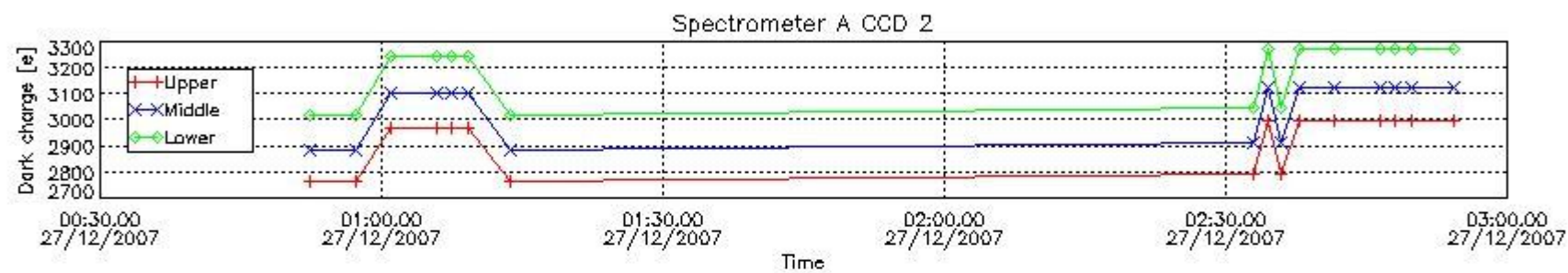
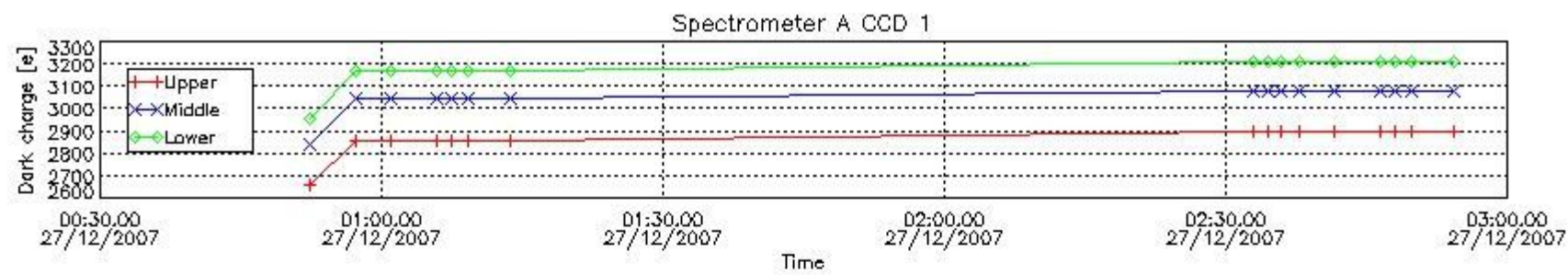
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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





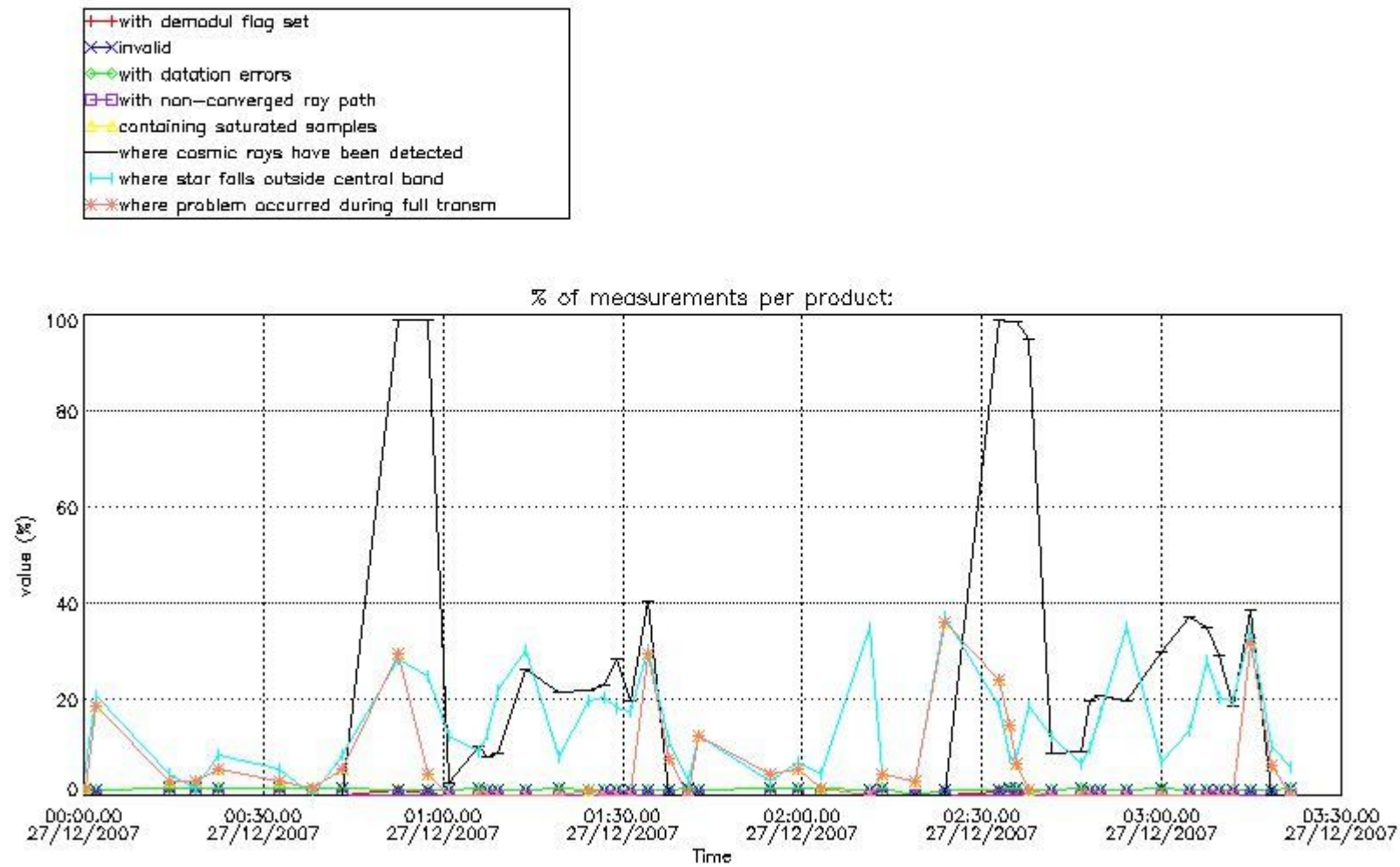
## 5. Demodulation flag and quality information monitoring

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:

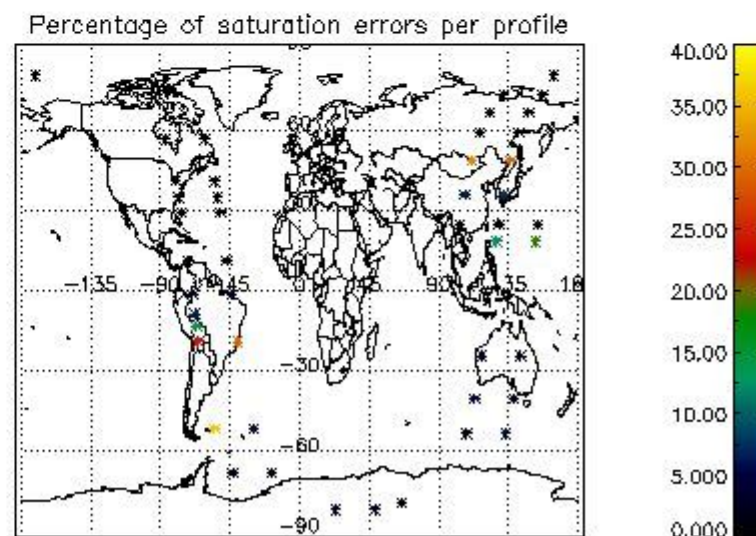
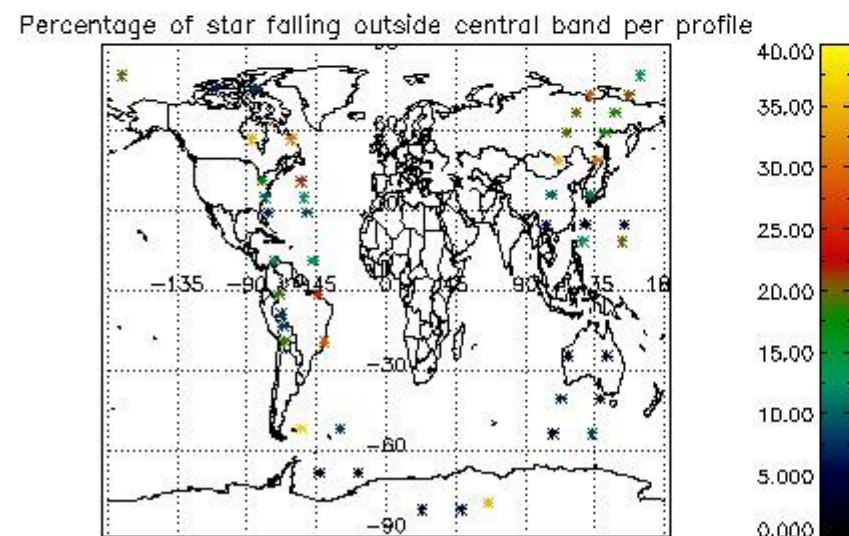
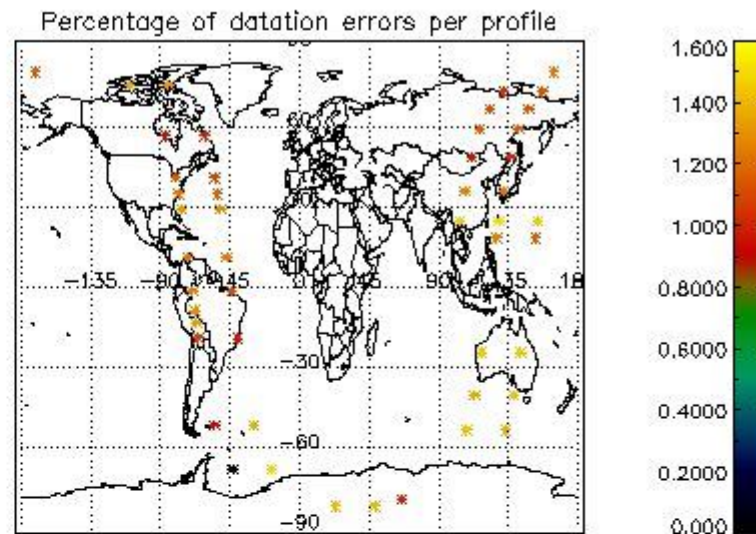
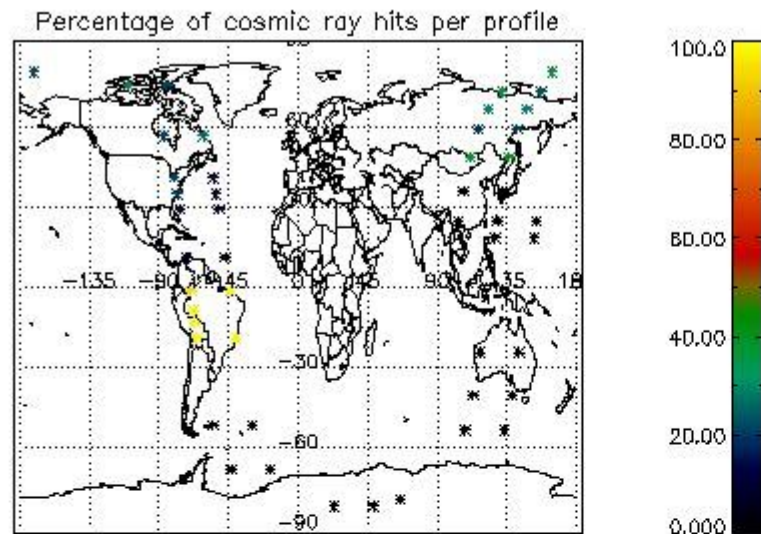
At least one measurement with demodulation flag set:	22.9167 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)





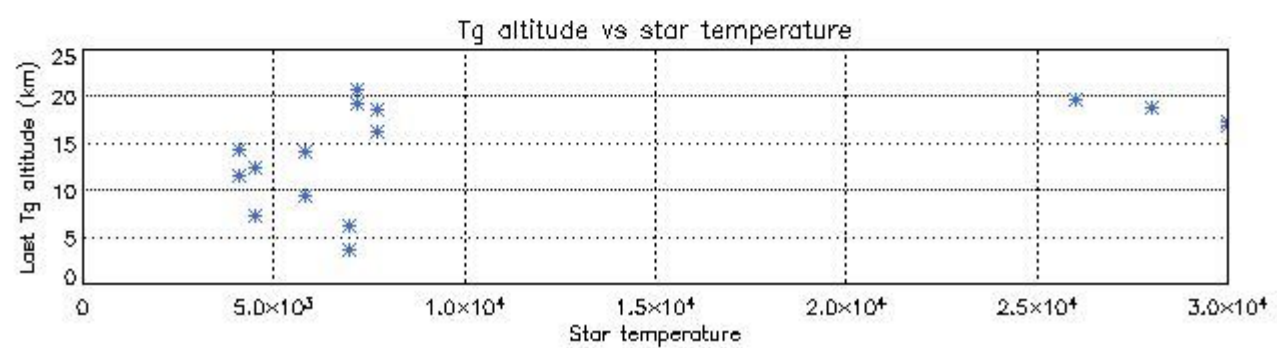
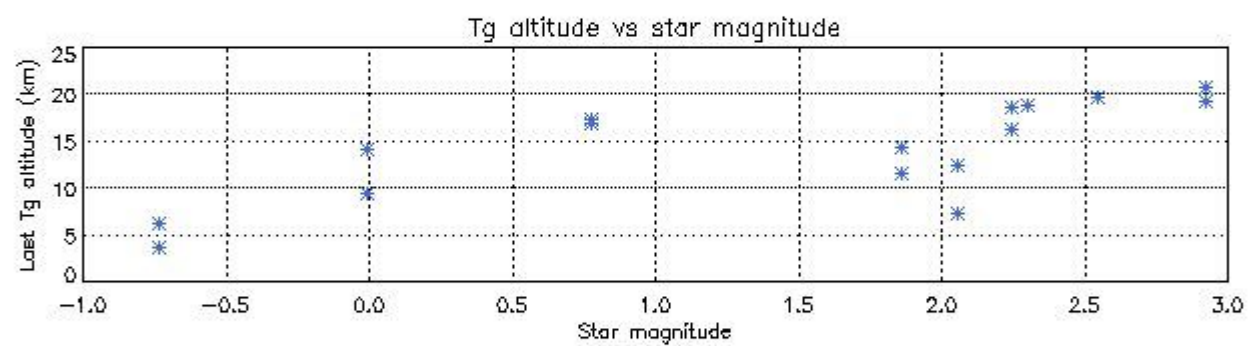
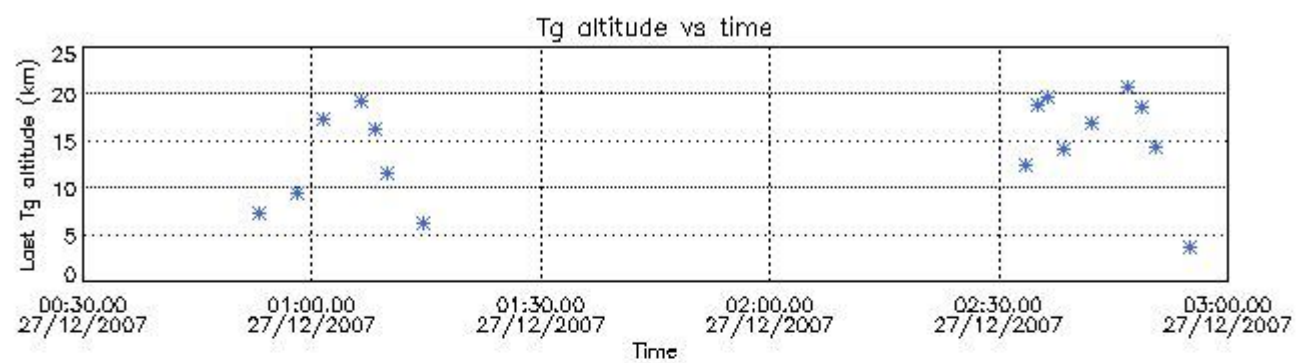
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.153	18.307	NaN
St. deviation:	5.2645	7.2755	NaN
Maximum:	20.721	25.525	NaN
Minimum:	3.6471	3.5834	NaN
Number of data:	16.000	22.000	NaN

### 6.2 Plot for DARK limb products

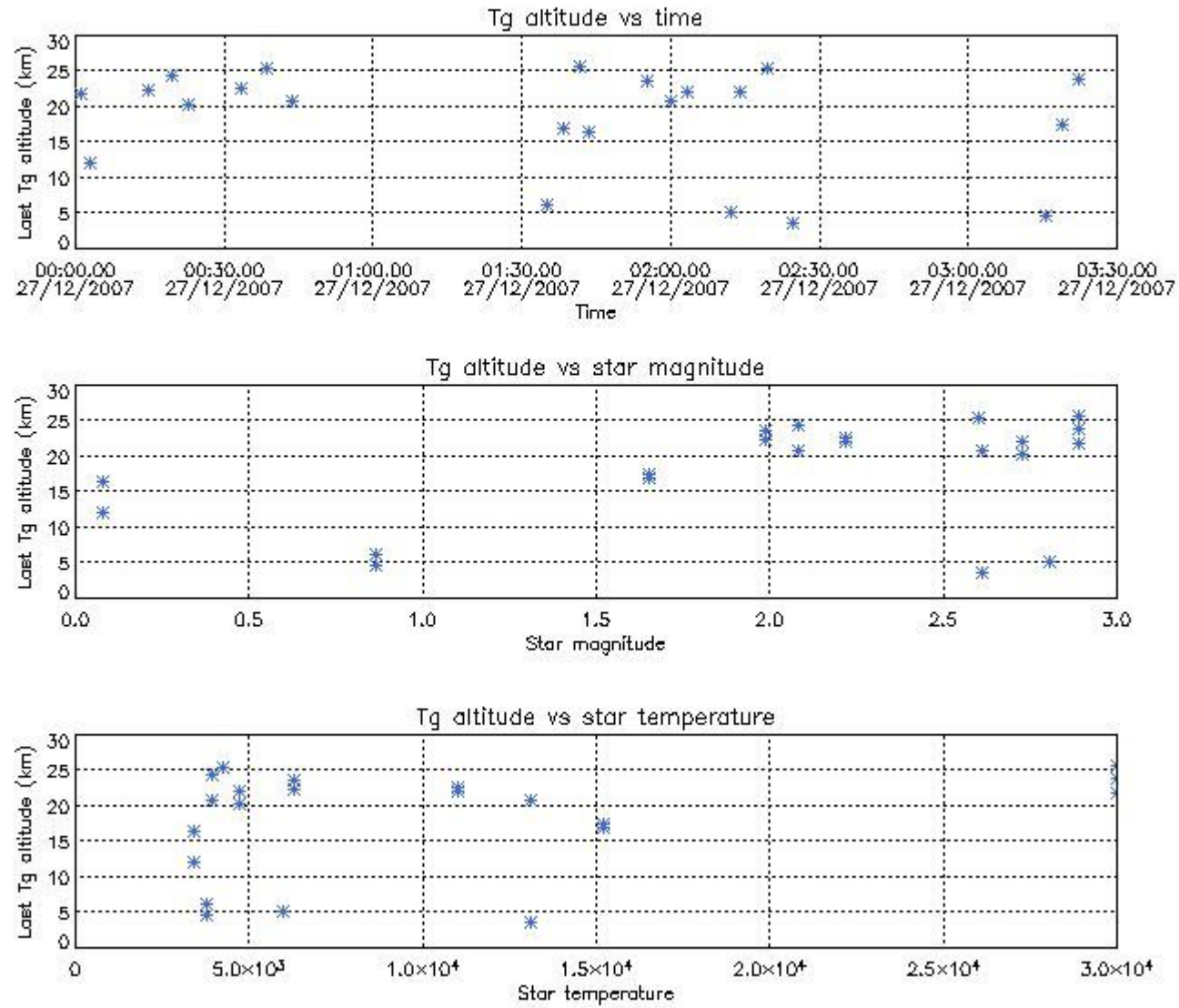
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

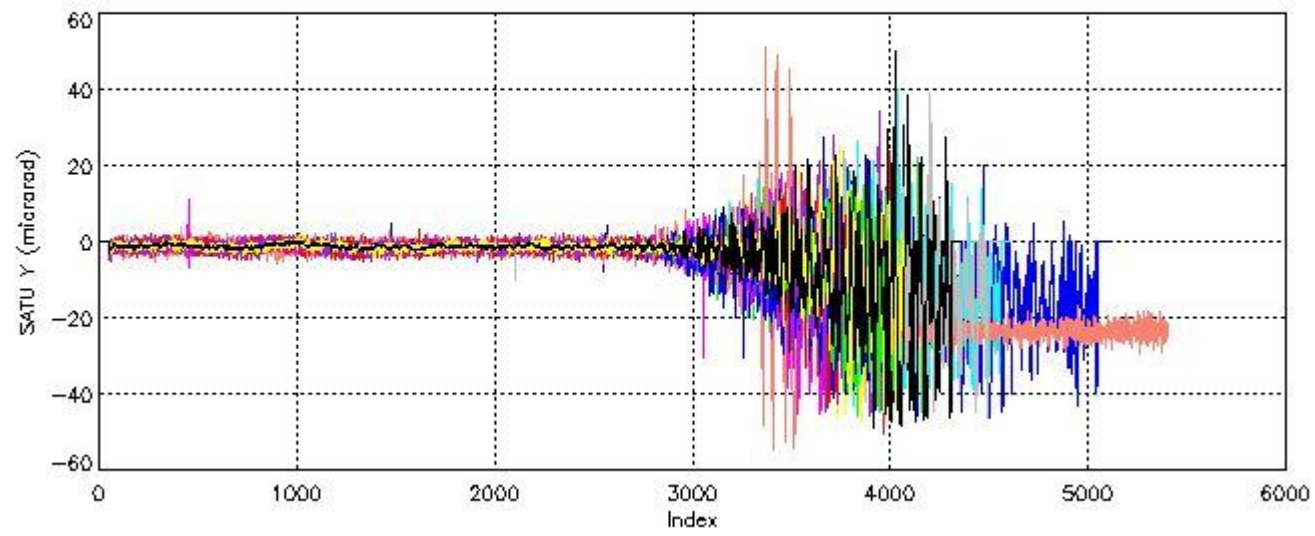
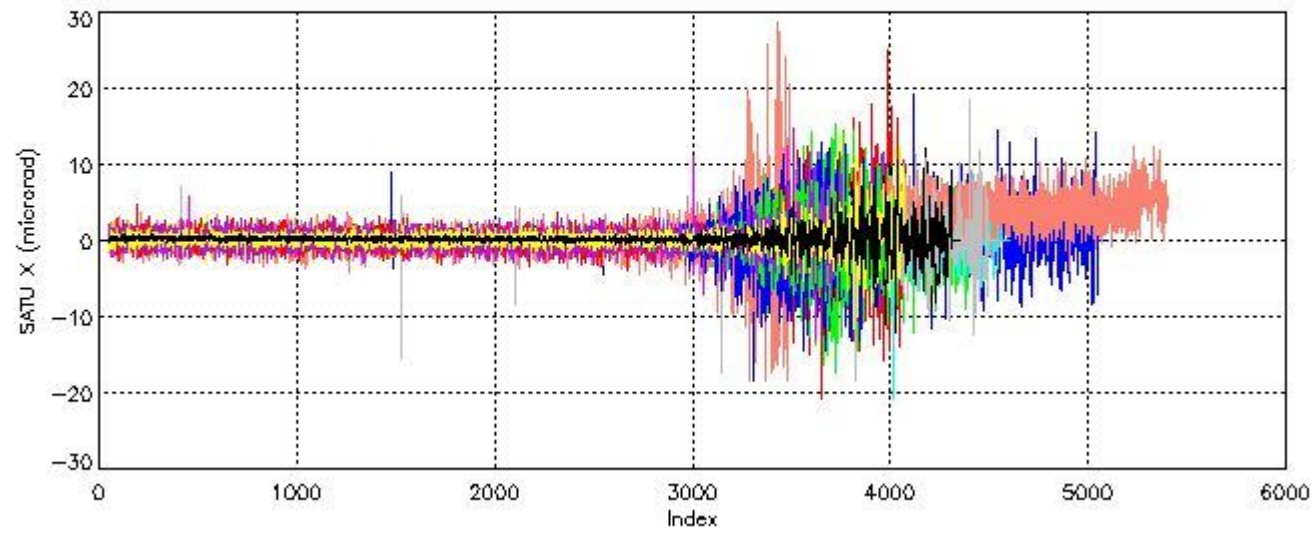


## 7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.11250	-1.2655	0.036000	-1.2203
St. deviation:	0.43990	0.73899	0.73759	1.0444
Maximum:	7.1000	11.100	6.2000	5.6000
Minimum:	-3.1000	-7.1000	-5.8000	-7.2000

Number of data:	14350.	14350.	18050.	18050.
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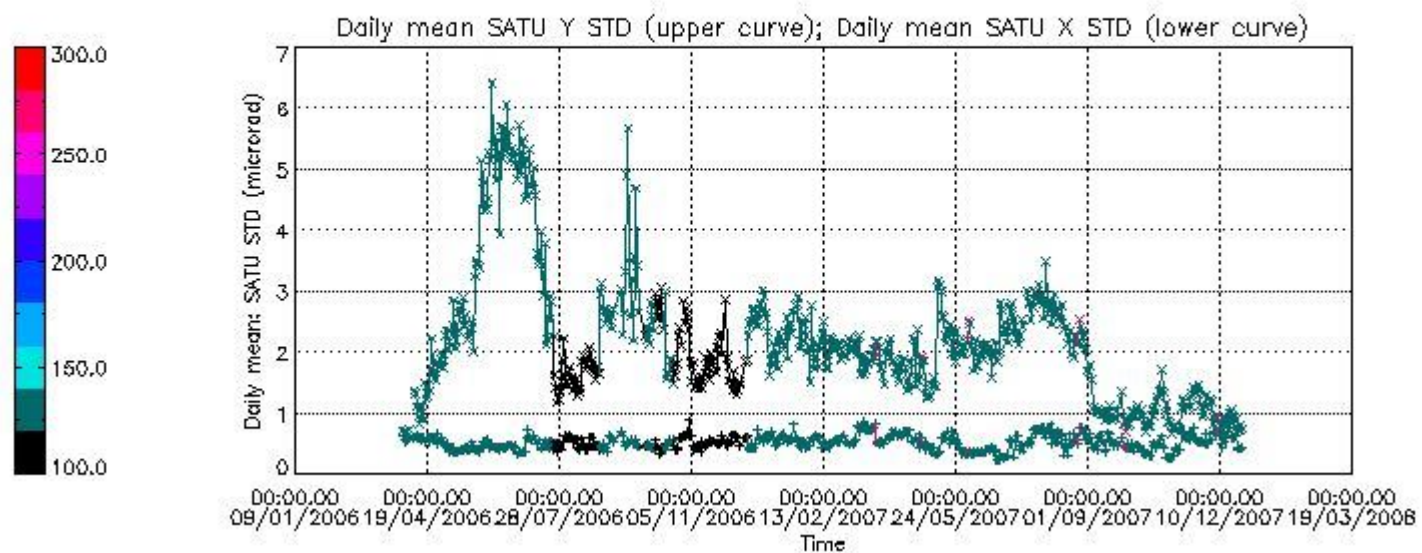
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

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

Upper curve: STD of SATU Y axis

Lower curve: STD of SATU X axis

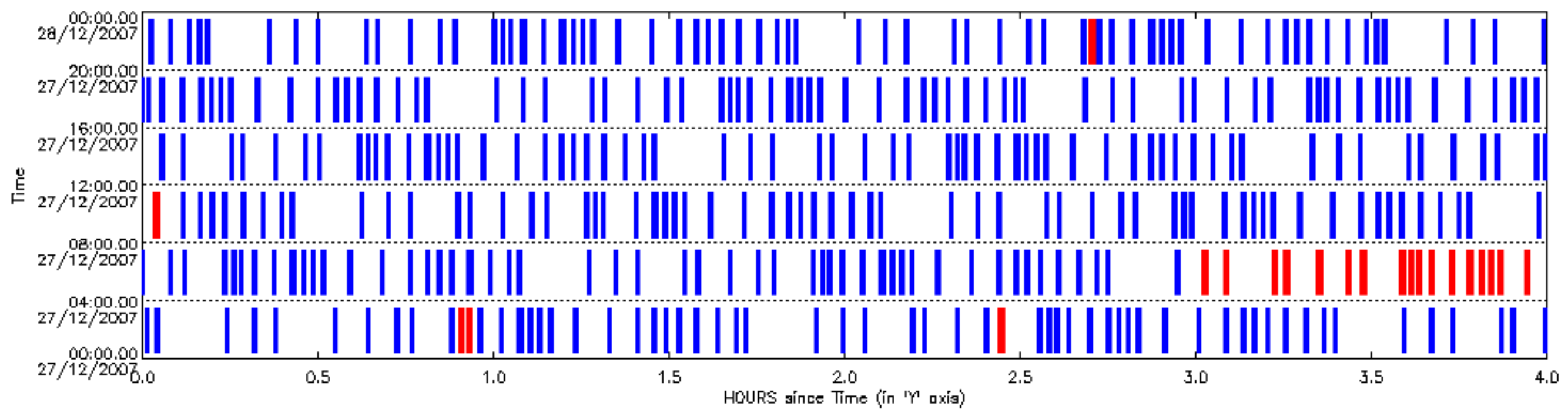


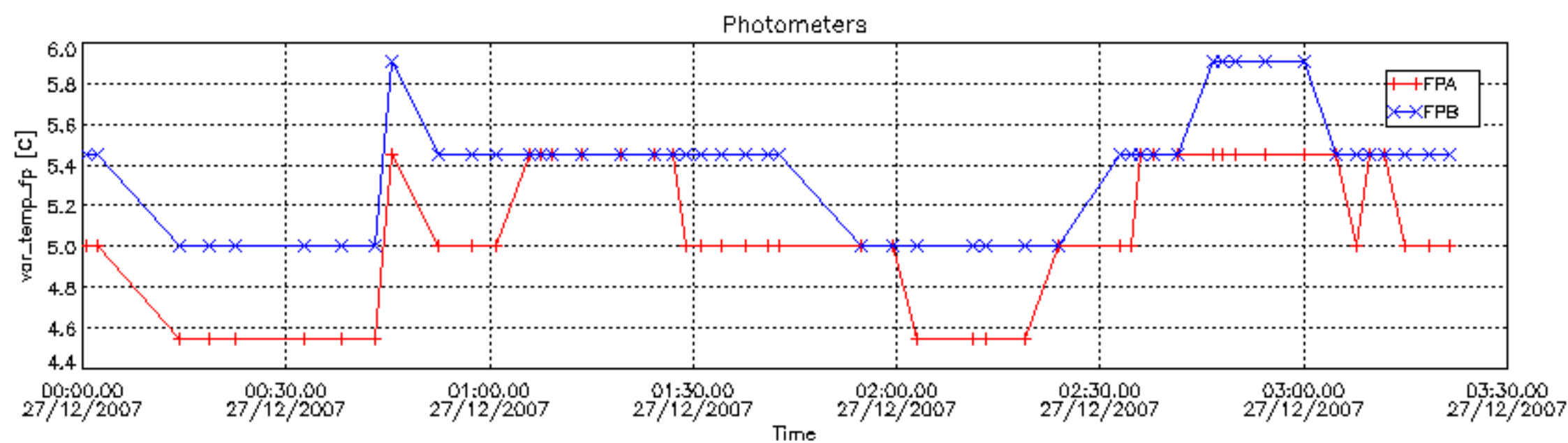
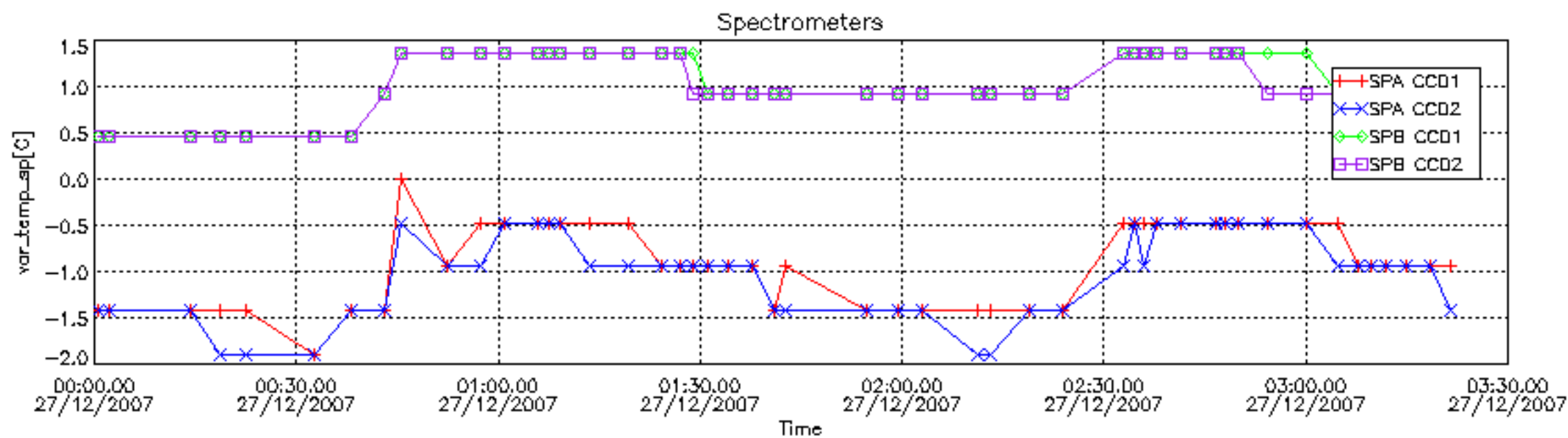
### 8. Auxiliary Data Files used for the production reported in section 2.4

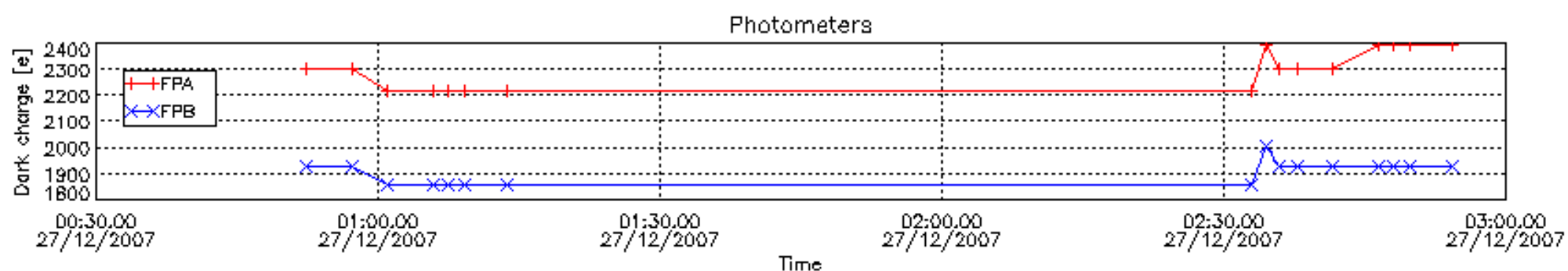
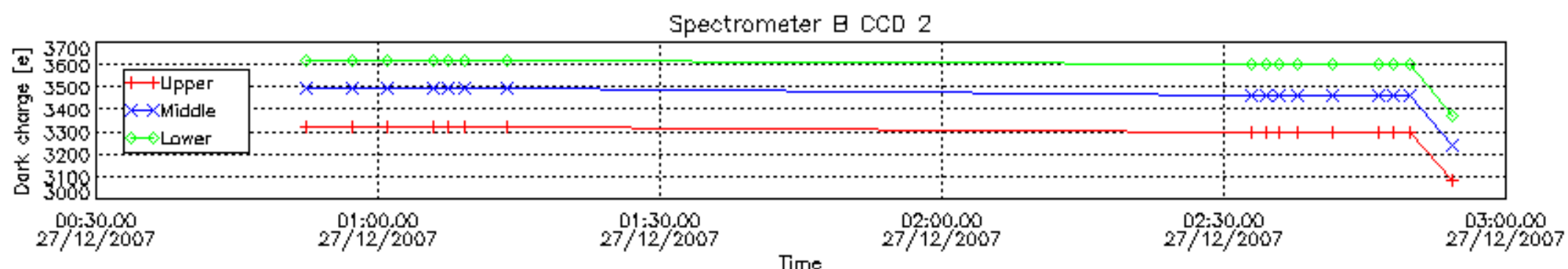
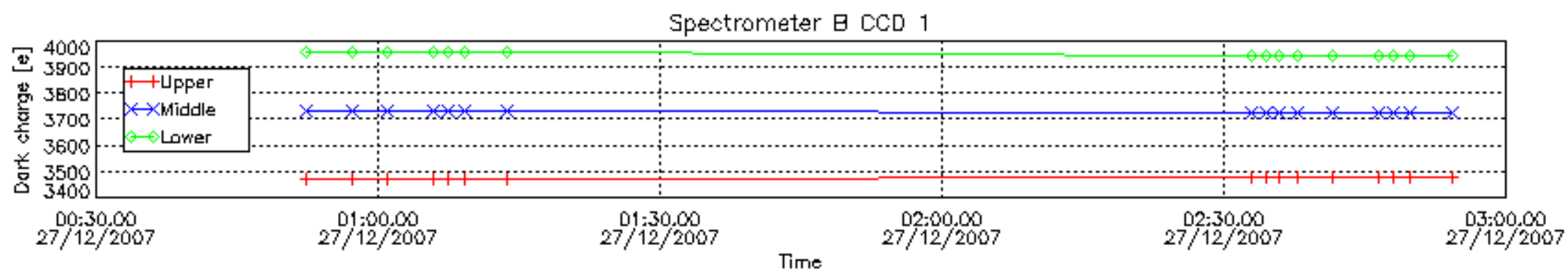
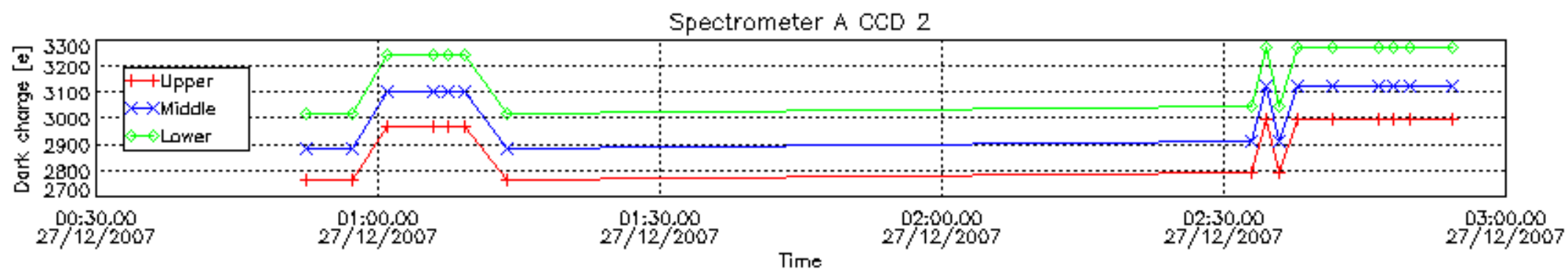
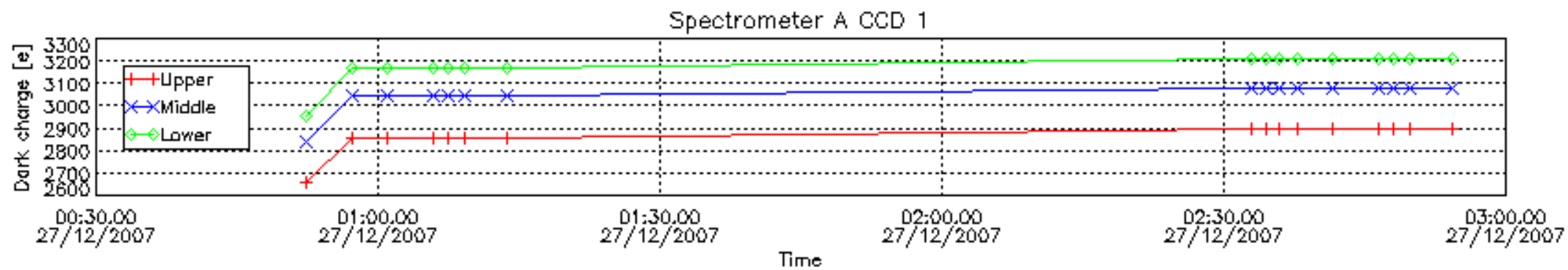
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	27-DEC-2007 00:00:25
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071220_110231_20071218_000000_20100101_000000	1	27-DEC-2007 00:00:25
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	27-DEC-2007 00:00:25
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	27-DEC-2007 00:00:25
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	27-DEC-2007 00:00:25
ECMWF_FILE	AUX_ECF_AXNECM20071226_073112_20071226_210000_20071227_090000	1	27-DEC-2007 00:00:25
OPTIONAL_ECMWF_FILE	MISSING	1	27-DEC-2007 00:00:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071226_212018_000060572064_00329_30443_4829.N1	1	27-DEC-2007 00:00:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071226_230115_000057382064_00330_30444_4830.N1	9	27-DEC-2007 00:45:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071227_004212_000054192064_00331_30445_4831.N1	32	27-DEC-2007 02:23:45

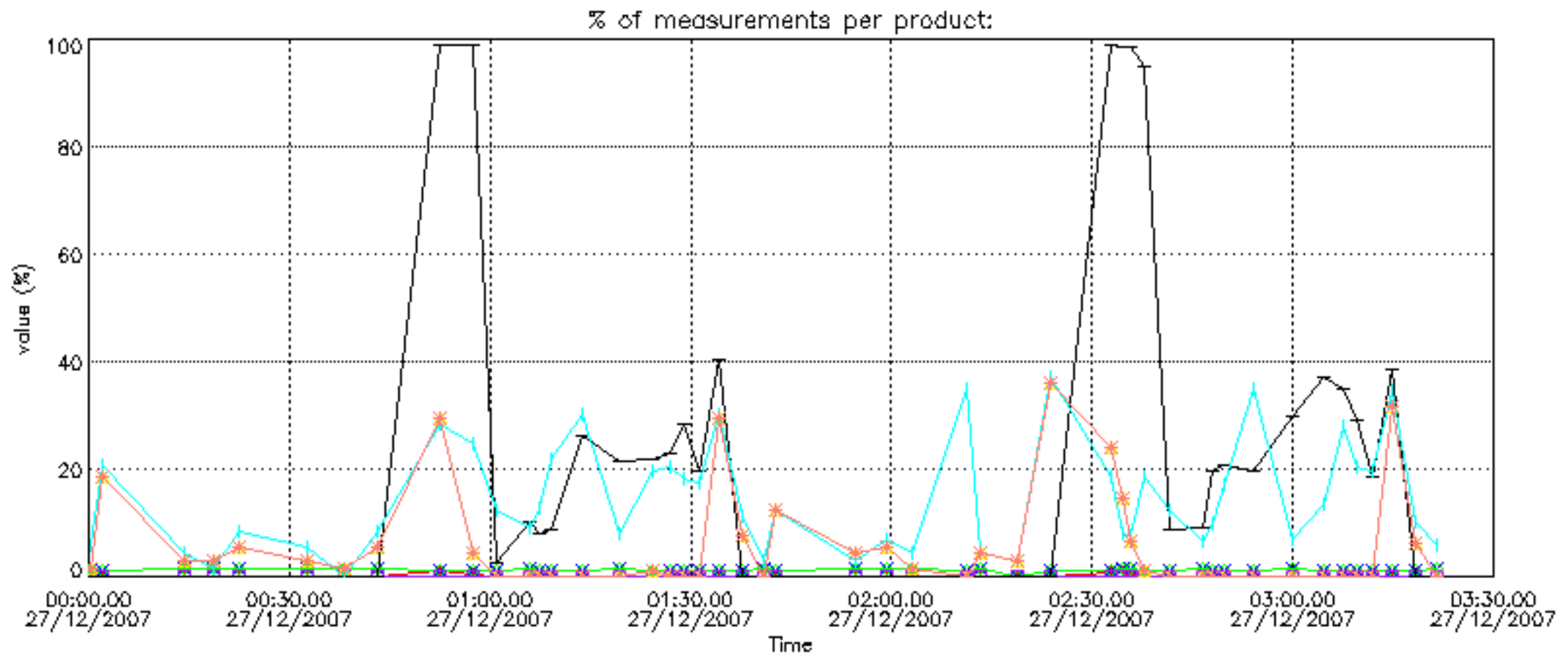




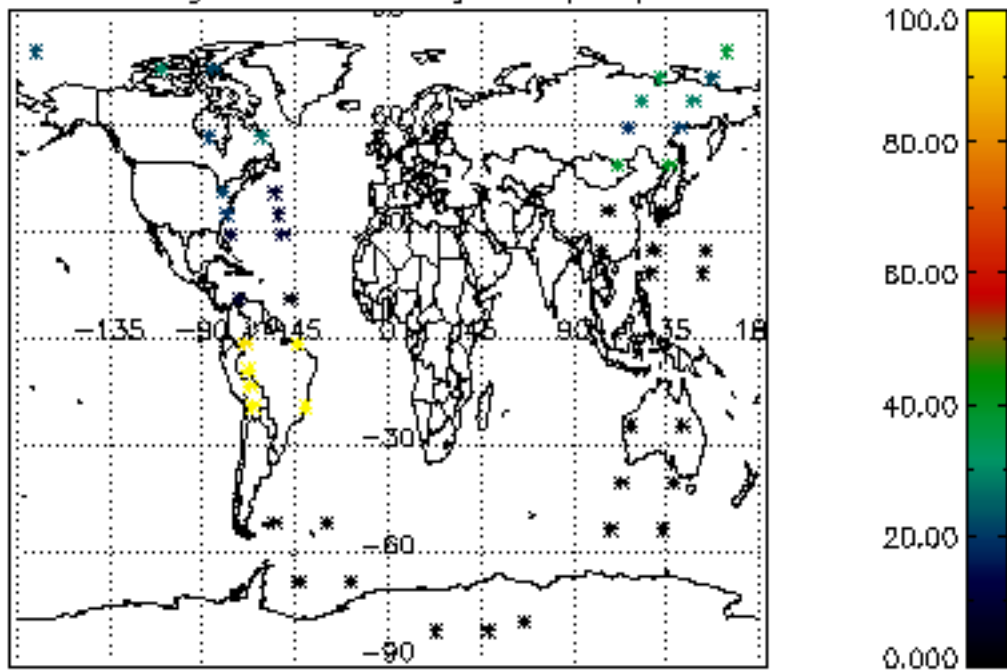




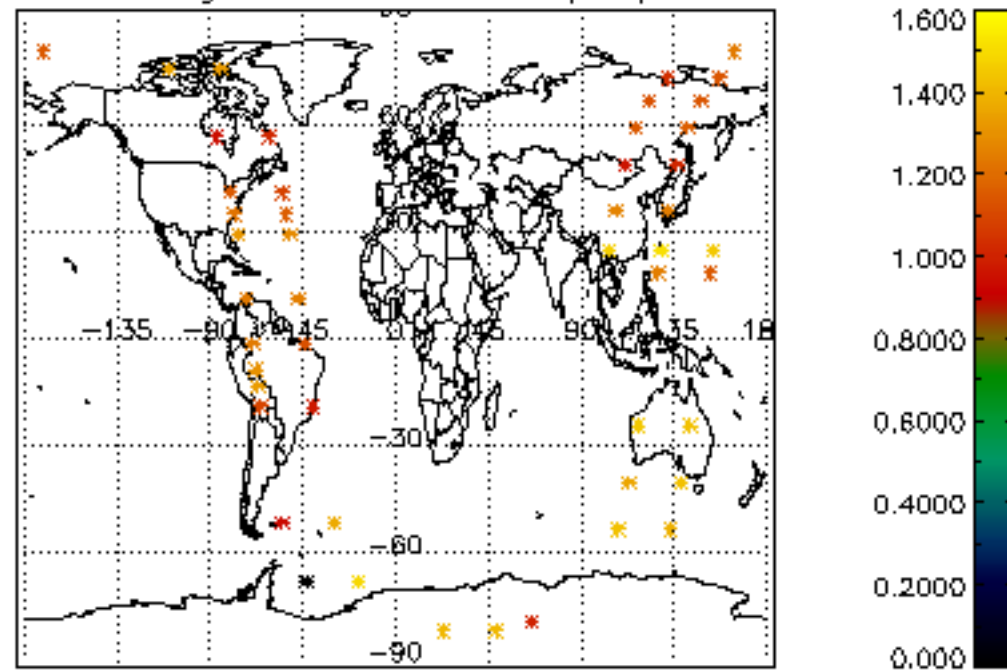




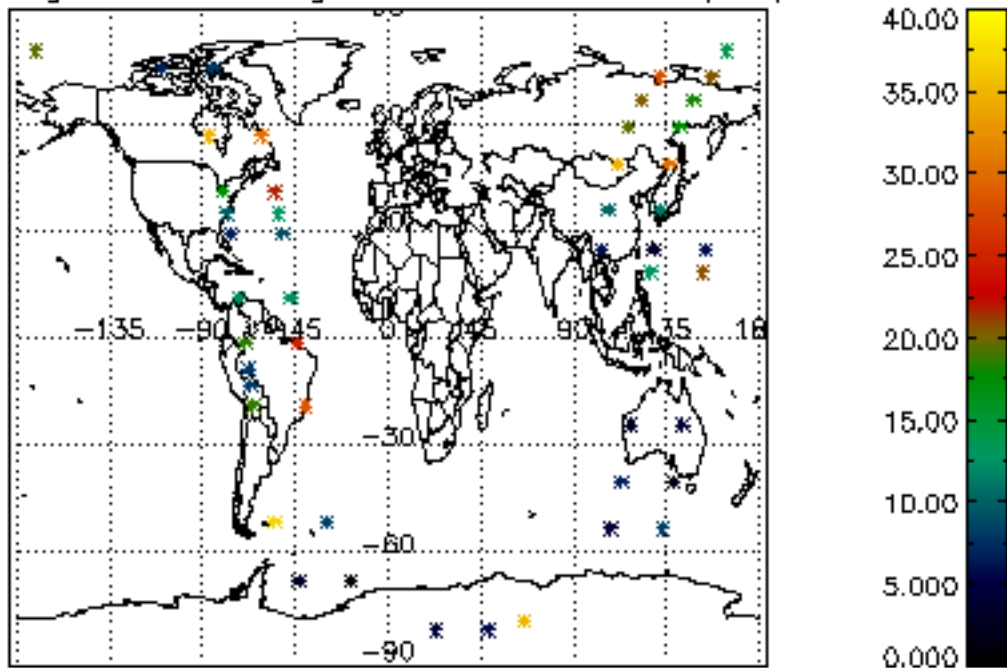
Percentage of cosmic ray hits per profile



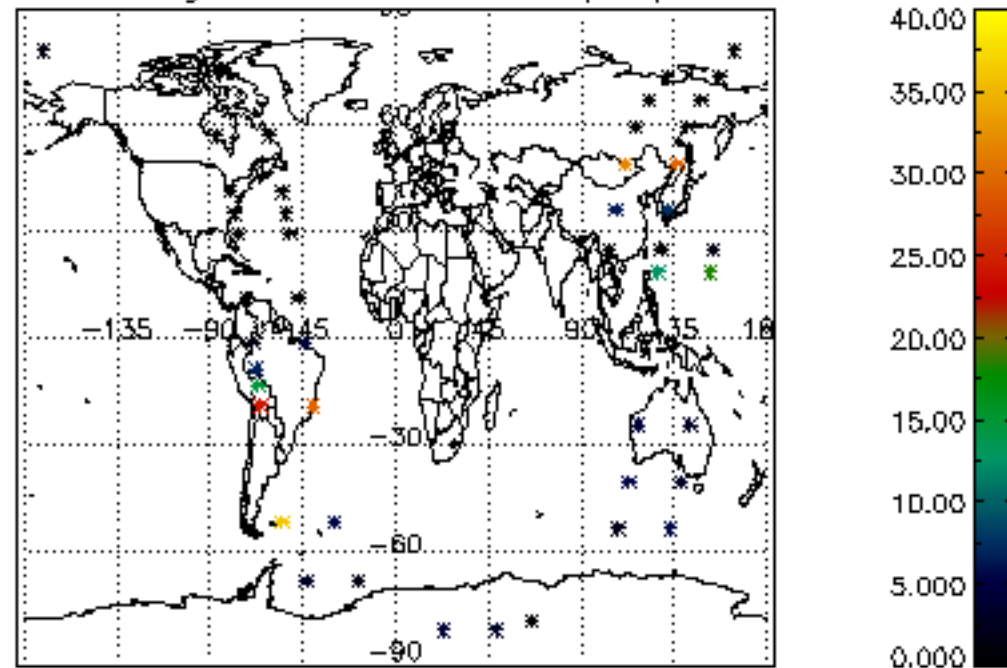
Percentage of datation errors per profile



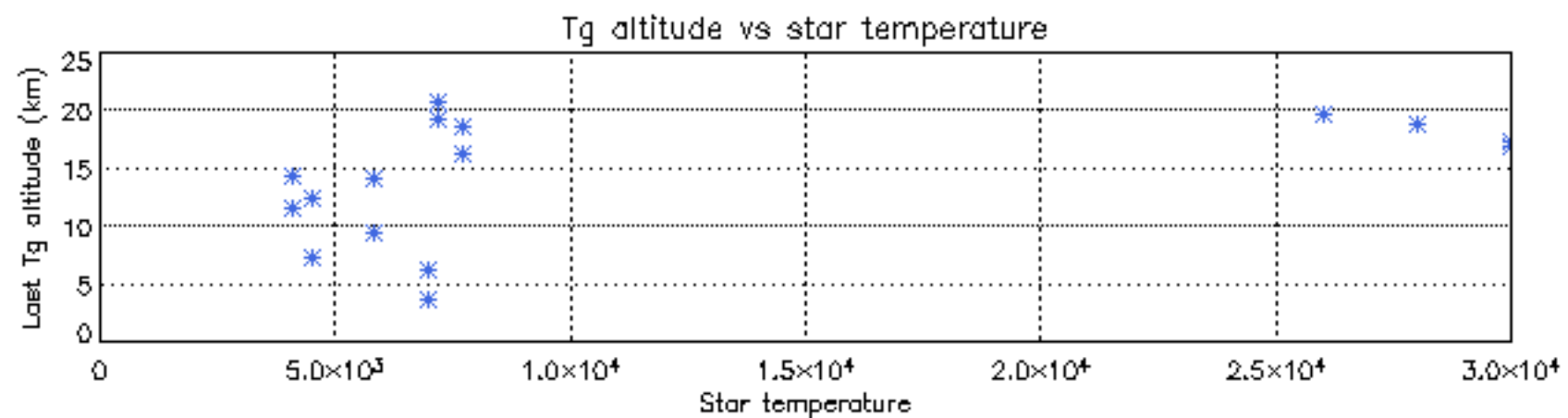
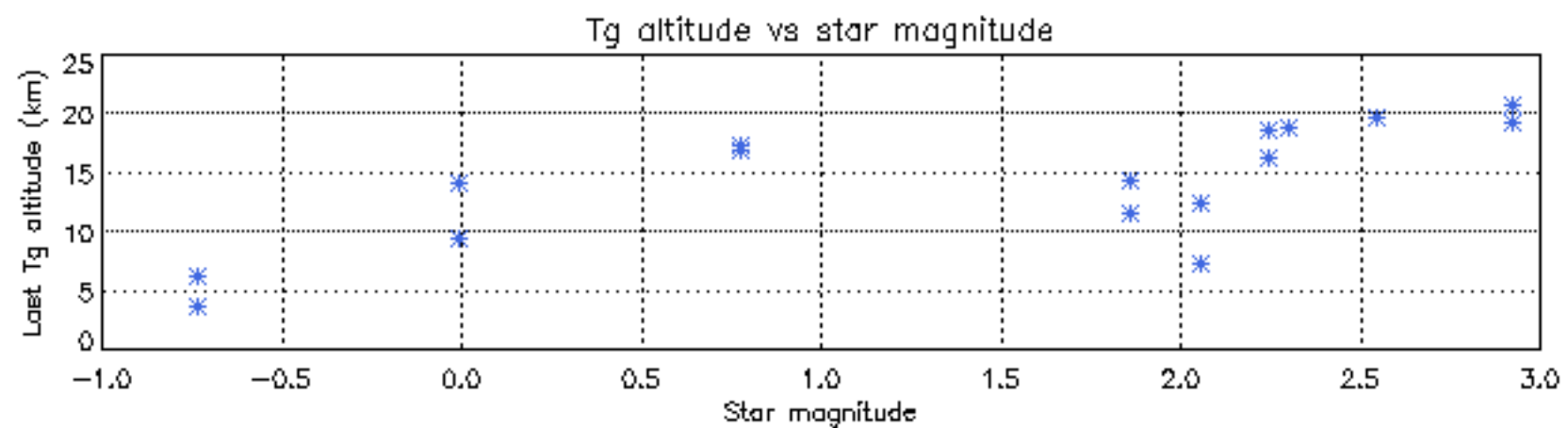
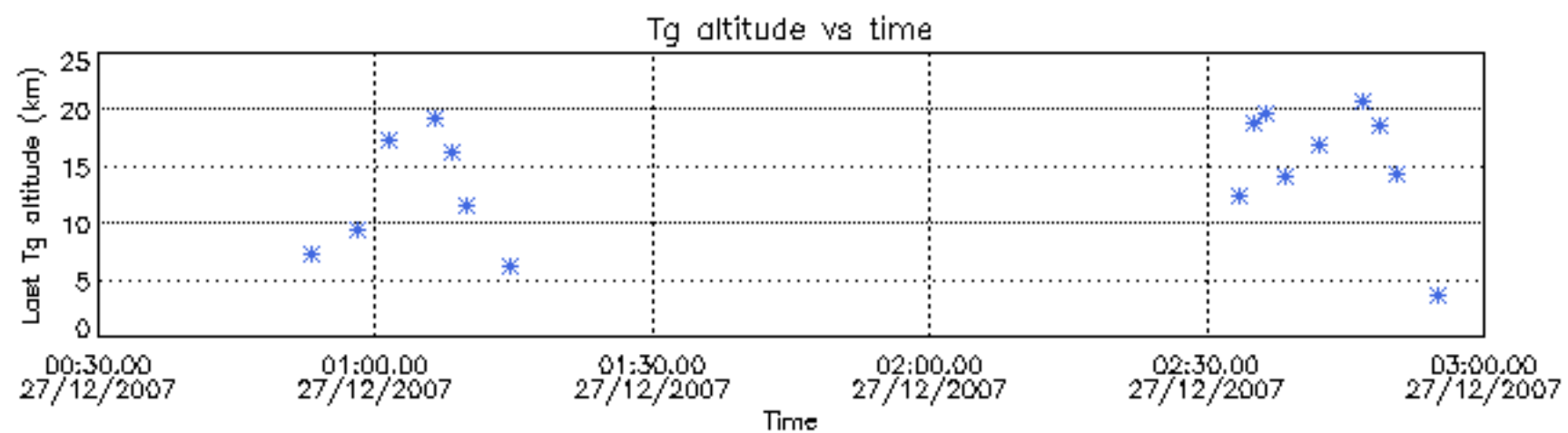
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

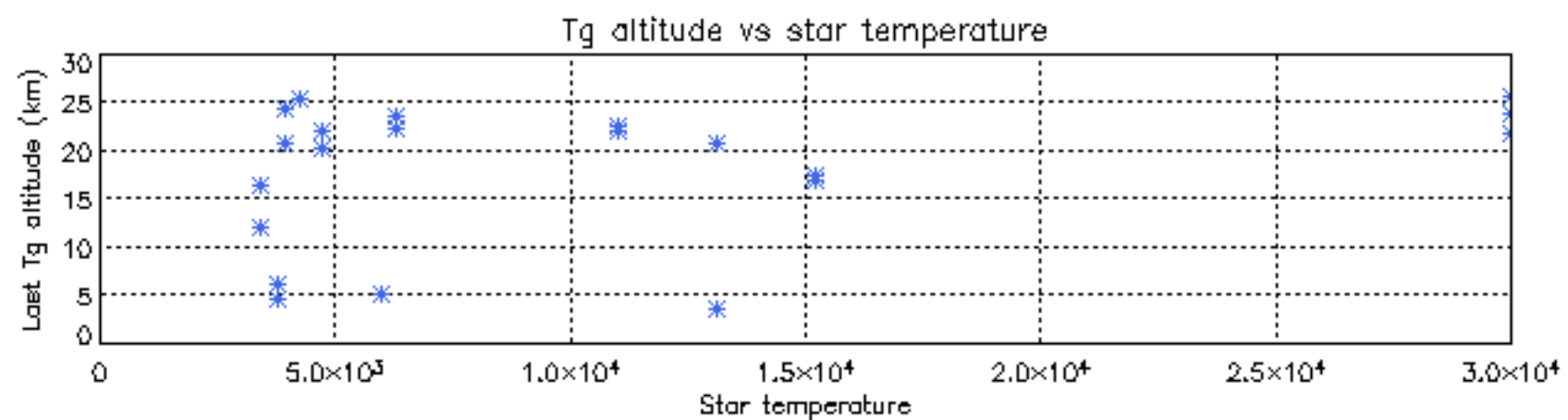
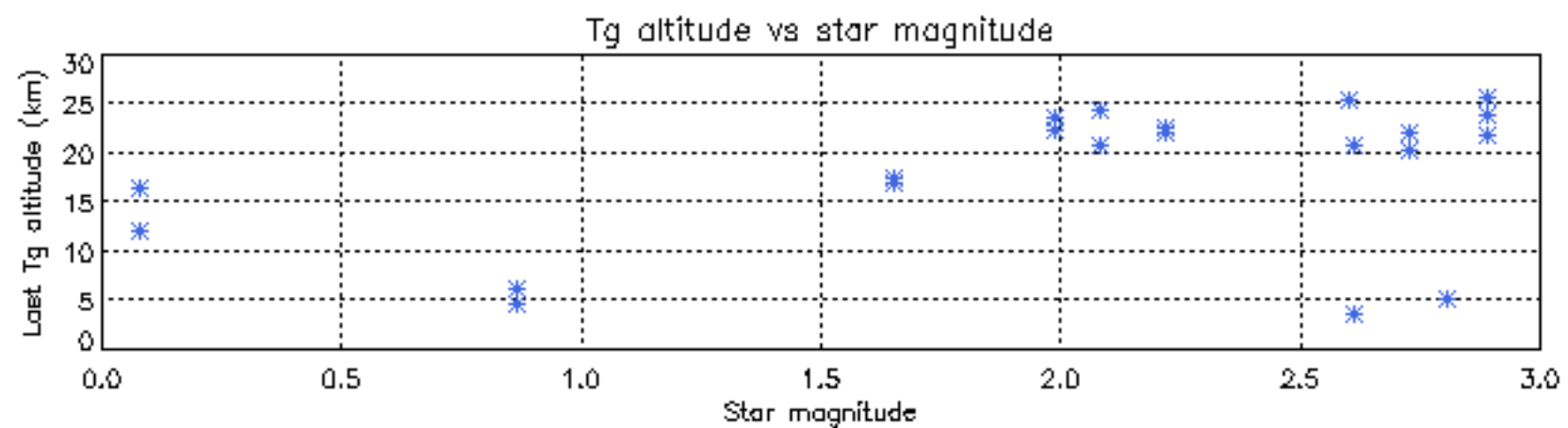
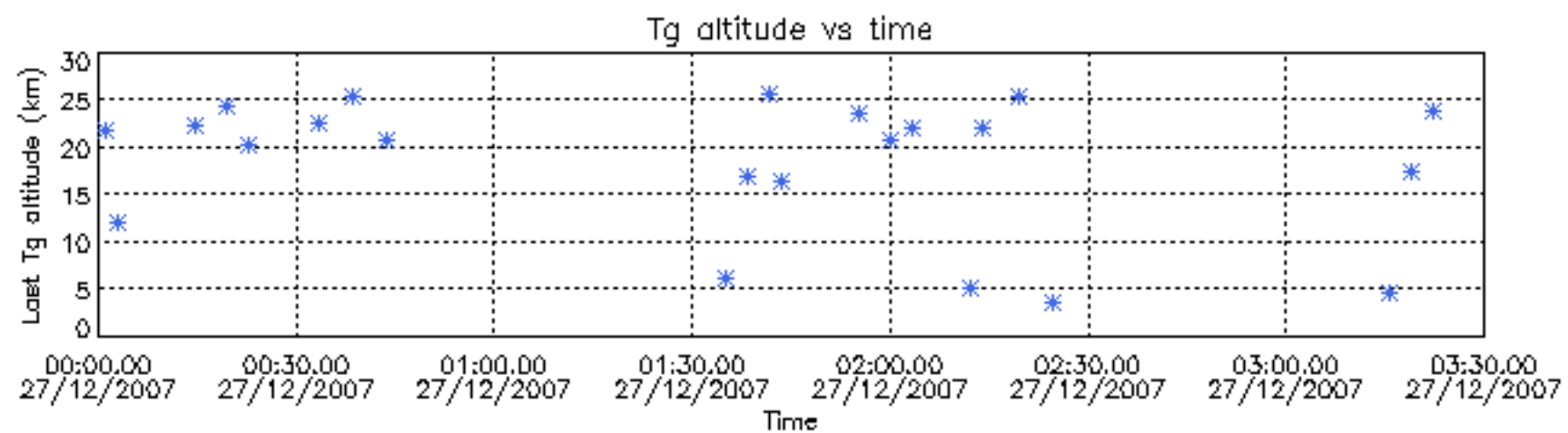


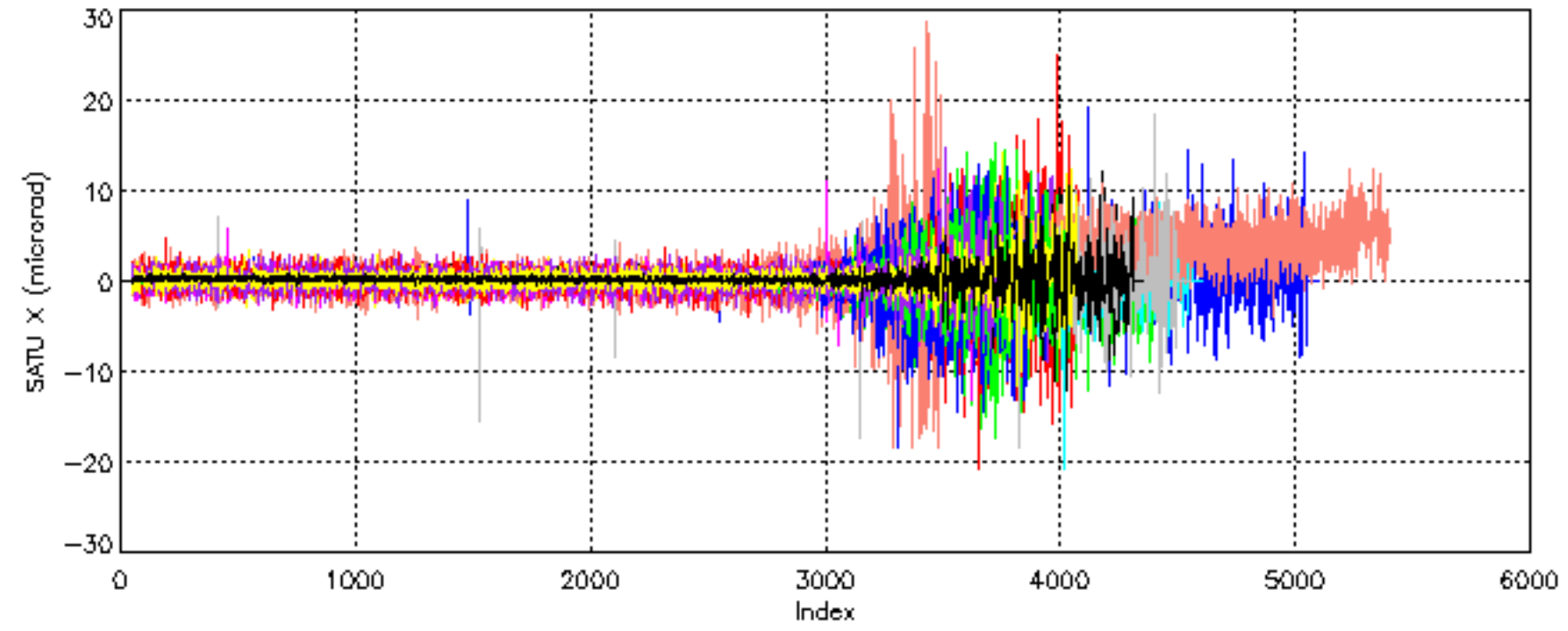
Tangent altitude at which the star is lost

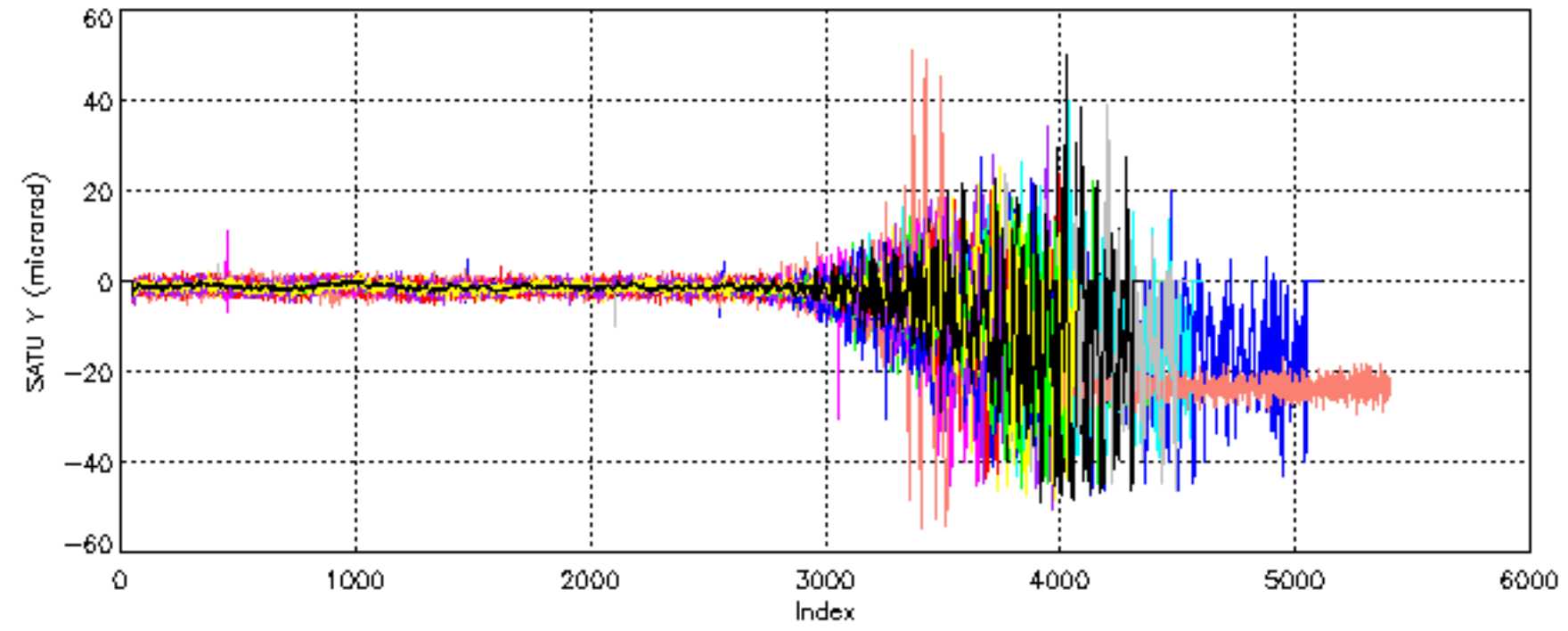




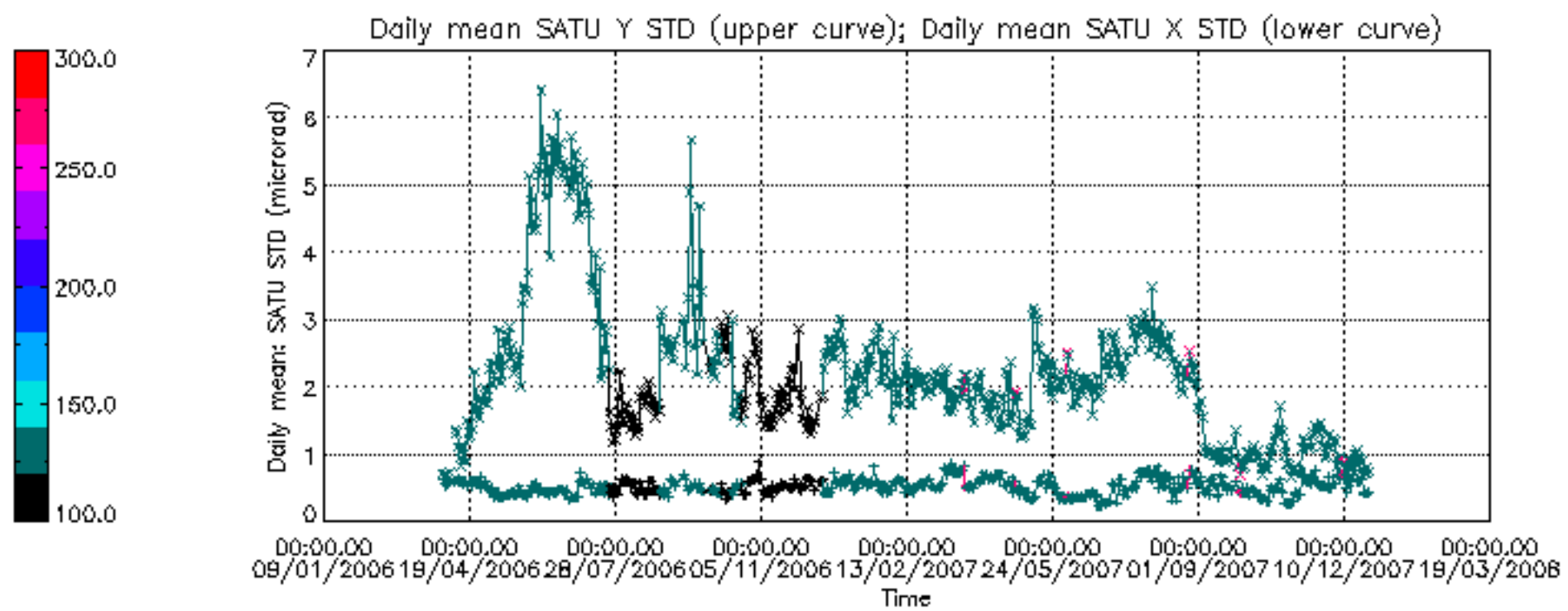
Tangent altitude at which the star is lost











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 3; -537.4; 01-DEC-2007 01:05:58; Dark ; 44.0; 106; 9Bet Crv ; 2.65; 5600;occ; 88; 0;30073  
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 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  
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 15; 2605.6; 01-DEC-2007 01:58:21; Bright; 34.0; 79; 26Bet Per ; 2.31; 13100;occ; 68; 0;30074  
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 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; 83.9; 01-DEC-2007 02:56:55; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;30075  
 14; 203.0; 01-DEC-2007 02:58:54; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;30075  
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 3; -1897.3; 01-DEC-2007 04:04:30; Bright; 53.0; 39; 85Eta UMa ; 1.85; 24000;occ; 106; 0;30075  
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 21; 2472.0; 01-DEC-2007 05:17:19; Bright; 37.5; 150; 44Zet Per ; 2.89; 28000;occ; 75; 0;30076

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13; 85.3; 01-DEC-2007 06:18:08; Dark ; 42.5; 113; Mu Vel ; 2.69; 5000;occ; 85; 0;30077
14; 203.7; 01-DEC-2007 06:20:07; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;30077
15; 370.9; 01-DEC-2007 06:22:54; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;30077
16; 483.5; 01-DEC-2007 06:24:47; Dark ; 40.0; 41; Eps Car ; 1.86; 4100;occ; 80; 0;30077
17; 805.4; 01-DEC-2007 06:30:09; Dark ; 58.0; 2; Alp Car ; -0.74; 7000;occ; 116; 0;30077
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23; 2738.8; 01-DEC-2007 07:02:22; Bright; 35.5; 175; 39Del Per ; 3.01; 19400;occ; 71; 0;30077
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6; 2012.8; 28-DEC-2007 21:06:49; Dark ; 44.0; 27; 24Gam Ori ; 1.64; 26000;occ; 88; 0;30472  
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