

# GOMOS Daily Report 21-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	23NOV2007 05:50:25
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (21NOV2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (22NOV2007 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)

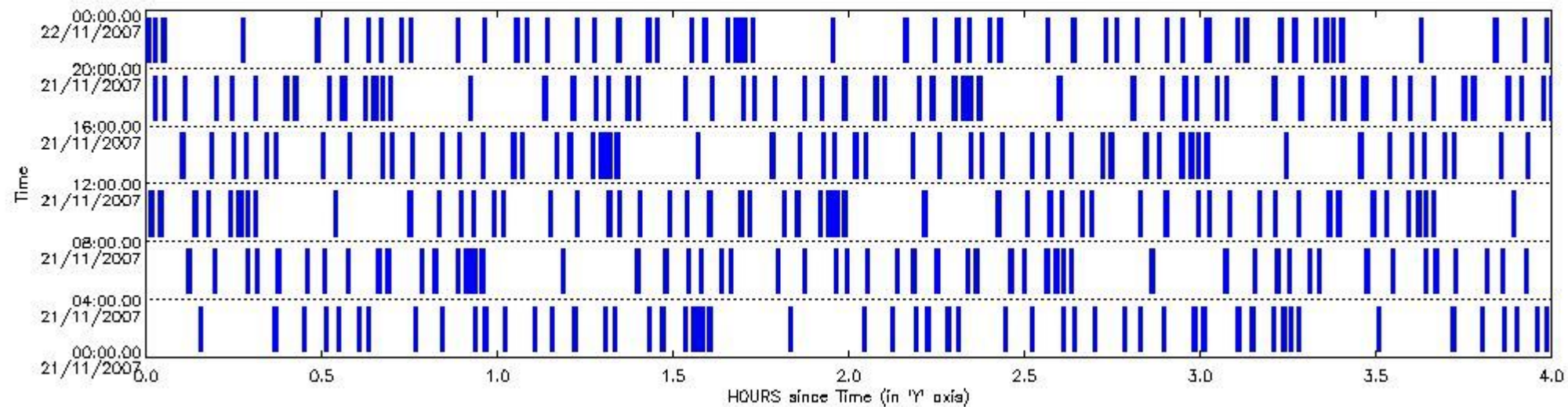
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

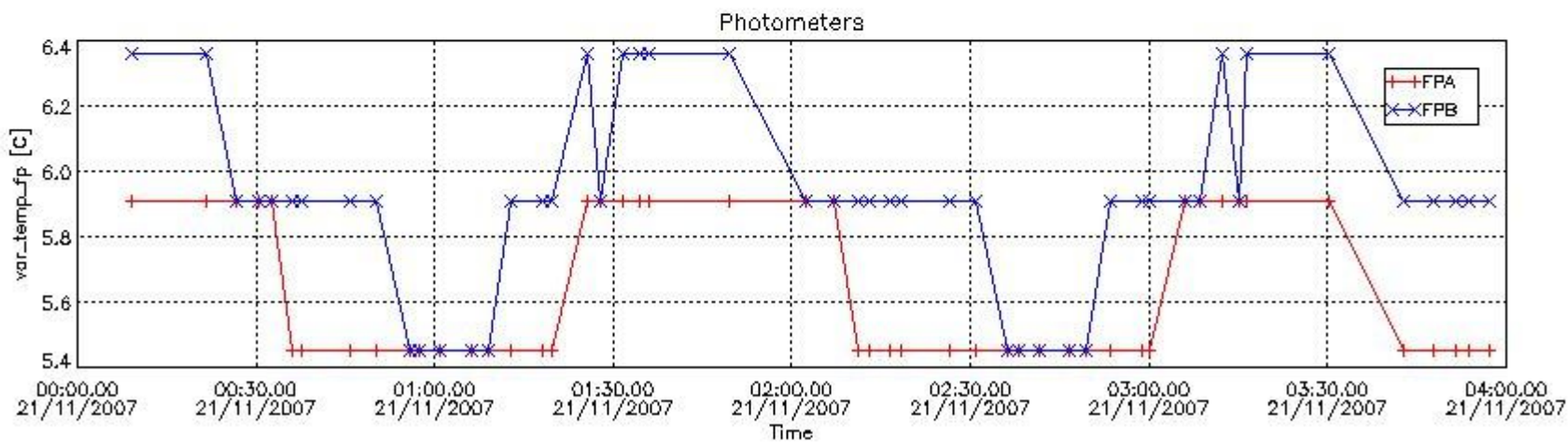
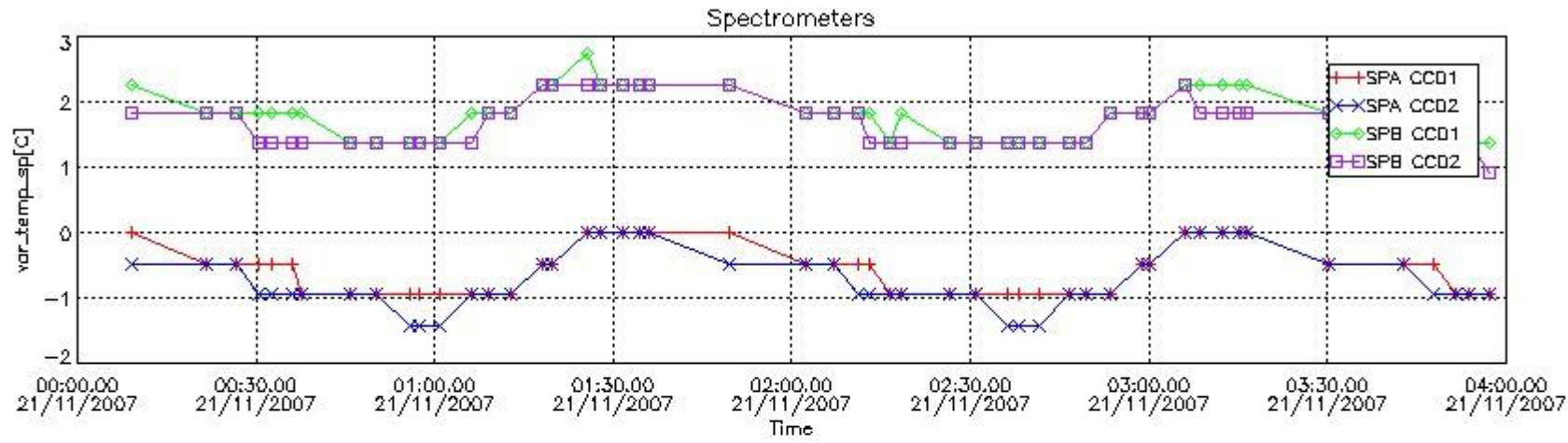
No missing products.

### 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_1PNPDE20071121_000859_000000392063_00317_29930_5665.N1	21-NOV-2007 00:08:59	Straylight	39.000	157	The1Eri	2.9060	9300.0	78	29930	No
2	GOM_TRA_1PNPDE20071121_002137_000000422063_00317_29930_5666.N1	21-NOV-2007 00:21:37	Twilight_stray	42.000	94	92Alp Cet	2.5260	3100.0	84	29930	No
3	GOM_TRA_1PNPDE20071121_002635_000000362063_00317_29930_5667.N1	21-NOV-2007 00:26:35	Bright	36.000	105	6Bet Ari	2.6450	8900.0	72	29930	No
4	GOM_TRA_1PNPDE20071121_003027_000000352063_00317_29930_5668.N1	21-NOV-2007 00:30:27	Bright	34.500	173	4Bet Tri	3.0040	8900.0	69	29930	No
5	GOM_TRA_1PNPDE20071121_003231_000000362063_00317_29930_5669.N1	21-NOV-2007 00:32:31	Bright	35.500	73	57Gam1And	2.2600	13100.	71	29930	No
6	GOM_TRA_1PNPDE20071121_003601_000000382063_00317_29930_5670.N1	21-NOV-2007 00:36:01	Bright	37.500	160	23Gam Per	2.9300	4700.0	75	29930	No
7	GOM_TRA_1PNPDE20071121_003739_000000352063_00317_29930_5671.N1	21-NOV-2007 00:37:39	Bright	35.000	110	37Del Cas	2.6780	8900.0	70	29930	No
8	GOM_TRA_1PNPDE20071121_004545_000000332063_00317_29930_5672.N1	21-NOV-2007 00:45:45	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	29930	No
9	GOM_TRA_1PNPDE20071121_005015_000000372063_00317_29930_5673.N1	21-NOV-2007 00:50:15	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	29930	No
10	GOM_TRA_1PNPDE20071121_005545_000000382063_00317_29930_5674.N1	21-NOV-2007 00:55:45	Bright	37.500	32	77Eps UMa	1.7630	11000.	75	29930	No
11	GOM_TRA_1PNPDE20071121_005732_000000522063_00317_29930_5675.N1	21-NOV-2007 00:57:32	Bright	52.000	39	85Eta UMa	1.8540	24000.	104	29930	No
12	GOM_TRA_1PNPDE20071121_010100_000000362063_00317_29930_5676.N1	21-NOV-2007 01:01:00	Bright	36.000	152	12Alp2CVn	2.8900	11000.	72	29930	No

13	GOM_TRA_1PNPDE20071121_010608_000000332063_00317_29930_5677.N1	21-NOV-2007 01:06:08	Bright	32.500	111	8Eta Boo	2.6800	6000.0	65	29930	No
14	GOM_TRA_1PNPDE20071121_010855_000000362063_00317_29930_5678.N1	21-NOV-2007 01:08:55	Bright	36.000	138	47Eps Vir	2.8280	4700.0	72	29930	No
15	GOM_TRA_1PNPDE20071121_011251_000000392063_00317_29930_5679.N1	21-NOV-2007 01:12:51	Bright	39.000	121	29Gam Vir	2.7400	7200.0	78	29930	No
16	GOM_TRA_1PNPDE20071121_011804_000000412063_00317_29930_5810.N1	21-NOV-2007 01:18:04	Twilight	41.000	100	4Gam Crv	2.5800	13100.	82	29930	No
17	GOM_TRA_1PNPDE20071121_011936_000000402063_00317_29930_5811.N1	21-NOV-2007 01:19:36	Twilight	40.000	171	2Eps Crv	3.0010	4250.0	80	29930	No
18	GOM_TRA_1PNPDE20071121_012532_000000402063_00317_29930_5812.N1	21-NOV-2007 01:25:32	Dark	40.000	64	Gam Cen	2.2000	10600.	80	29930	No
19	GOM_TRA_1PNPDE20071121_012747_000000442063_00317_29930_5813.N1	21-NOV-2007 01:27:47	Dark	43.500	26	Gam Cru	1.6240	2900.0	87	29930	No
20	GOM_TRA_1PNPDE20071121_013139_000000362063_00318_29931_5814.N1	21-NOV-2007 01:31:39	Dark	36.000	124	The Car	2.7640	30000.	72	29931	No
21	GOM_TRA_1PNPDE20071121_013431_000000382063_00318_29931_5815.N1	21-NOV-2007 01:34:31	Dark	37.500	29	Bet Car	1.6720	10200.	75	29931	No
22	GOM_TRA_1PNPDE20071121_013551_000000422063_00318_29931_5816.N1	21-NOV-2007 01:35:51	Dark	42.000	41	Eps Car	1.8600	4100.0	84	29931	No
23	GOM_TRA_1PNPDE20071121_014936_000000382063_00318_29931_5817.N1	21-NOV-2007 01:49:36	Straylight	37.500	157	The1Eri	2.9060	9300.0	75	29931	No
24	GOM_TRA_1PNPDE20071121_020212_000000442063_00318_29931_5818.N1	21-NOV-2007 02:02:12	Twilight	43.500	94	92Alp Cet	2.5260	3100.0	87	29931	No
25	GOM_TRA_1PNPDE20071121_020711_000000372063_00318_29931_5819.N1	21-NOV-2007 02:07:11	Bright	36.500	105	6Bet Ari	2.6450	8900.0	73	29931	No
26	GOM_TRA_1PNPDE20071121_021103_000000352063_00318_29931_5820.N1	21-NOV-2007 02:11:03	Bright	35.000	173	4Bet Tri	3.0040	8900.0	70	29931	No
27	GOM_TRA_1PNPDE20071121_021307_000000392063_00318_29931_5821.N1	21-NOV-2007 02:13:07	Bright	38.500	73	57Gam1And	2.2600	13100.	77	29931	No
28	GOM_TRA_1PNPDE20071121_021637_000000382063_00318_29931_5822.N1	21-NOV-2007 02:16:37	Bright	37.500	160	23Gam Per	2.9300	4700.0	75	29931	No
29	GOM_TRA_1PNPDE20071121_021815_000000352063_00318_29931_5823.N1	21-NOV-2007 02:18:15	Bright	34.500	110	37Del Cas	2.6780	8900.0	69	29931	No
30	GOM_TRA_1PNPDE20071121_022621_000000322063_00318_29931_5824.N1	21-NOV-2007 02:26:21	Bright	31.500	49	1Alp UMi	1.9900	6300.0	63	29931	No
31	GOM_TRA_1PNPDE20071121_023050_000000372063_00318_29931_5987.N1	21-NOV-2007 02:30:50	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	29931	No
32	GOM_TRA_1PNPDE20071121_023621_000000382063_00318_29931_5988.N1	21-NOV-2007 02:36:21	Bright	37.500	32	77Eps UMa	1.7630	11000.	75	29931	No
33	GOM_TRA_1PNPDE20071121_023808_000000362063_00318_29931_5989.N1	21-NOV-2007 02:38:08	Bright	36.000	39	85Eta UMa	1.8540	24000.	72	29931	No
34	GOM_TRA_1PNPDE20071121_024136_000000372063_00318_29931_5990.N1	21-NOV-2007 02:41:36	Bright	36.500	152	12Alp2CVn	2.8900	11000.	73	29931	No
35	GOM_TRA_1PNPDE20071121_024644_000000332063_00318_29931_5991.N1	21-NOV-2007 02:46:44	Bright	33.000	111	8Eta Boo	2.6800	6000.0	66	29931	No
36	GOM_TRA_1PNPDE20071121_024931_000000362063_00318_29931_5992.N1	21-NOV-2007 02:49:31	Bright	35.500	138	47Eps Vir	2.8280	4700.0	71	29931	No
37	GOM_TRA_1PNPDE20071121_025328_000000392063_00318_29931_5993.N1	21-NOV-2007 02:53:28	Bright	38.500	121	29Gam Vir	2.7400	7200.0	77	29931	No
38	GOM_TRA_1PNPDE20071121_025840_000000422063_00318_29931_5994.N1	21-NOV-2007 02:58:40	Twilight	41.500	100	4Gam Crv	2.5800	13100.	83	29931	No
39	GOM_TRA_1PNPDE20071121_030013_000000462063_00318_29931_5995.N1	21-NOV-2007 03:00:13	Twilight	46.000	171	2Eps Crv	3.0010	4250.0	92	29931	No
40	GOM_TRA_1PNPDE20071121_030609_000000412063_00318_29931_5996.N1	21-NOV-2007 03:06:09	Dark	40.500	64	Gam Cen	2.2000	10600.	81	29931	No
41	GOM_TRA_1PNPDE20071121_030824_000000492063_00318_29931_5997.N1	21-NOV-2007 03:08:24	Dark	48.500	26	Gam Cru	1.6240	2900.0	97	29931	No
42	GOM_TRA_1PNPDE20071121_031216_000000372063_00319_29932_5998.N1	21-NOV-2007 03:12:16	Dark	37.000	124	The Car	2.7640	30000.	74	29932	No
43	GOM_TRA_1PNPDE20071121_031508_000000382063_00319_29932_5999.N1	21-NOV-2007 03:15:08	Dark	38.000	29	Bet Car	1.6720	10200.	76	29932	No
44	GOM_TRA_1PNPDE20071121_031627_000000432063_00319_29932_6000.N1	21-NOV-2007 03:16:27	Dark	43.000	41	Eps Car	1.8600	4100.0	86	29932	No
45	GOM_TRA_1PNPDE20071121_033012_000000362063_00319_29932_6001.N1	21-NOV-2007 03:30:12	Straylight	36.000	157	The1Eri	2.9060	9300.0	72	29932	No
46	GOM_TRA_1PNPDE20071121_034248_000000472063_00319_29932_6002.N1	21-NOV-2007 03:42:48	Twilight	47.000	94	92Alp Cet	2.5260	3100.0	94	29932	No
47	GOM_TRA_1PNPDE20071121_034747_000000372063_00319_29932_6003.N1	21-NOV-2007 03:47:47	Bright	36.500	105	6Bet Ari	2.6450	8900.0	73	29932	No
48	GOM_TRA_1PNPDE20071121_035139_000000362063_00319_29932_6004.N1	21-NOV-2007 03:51:39	Bright	35.500	173	4Bet Tri	3.0040	8900.0	71	29932	No
49	GOM_TRA_1PNPDE20071121_035343_000000372063_00319_29932_6005.N1	21-NOV-2007 03:53:43	Bright	36.500	73	57Gam1And	2.2600	13100.	73	29932	No
50	GOM_TRA_1PNPDE20071121_035712_000000372063_00319_29932_6006.N1	21-NOV-2007 03:57:12	Bright	36.500	160	23Gam Per	2.9300	4700.0	73	29932	No

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



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

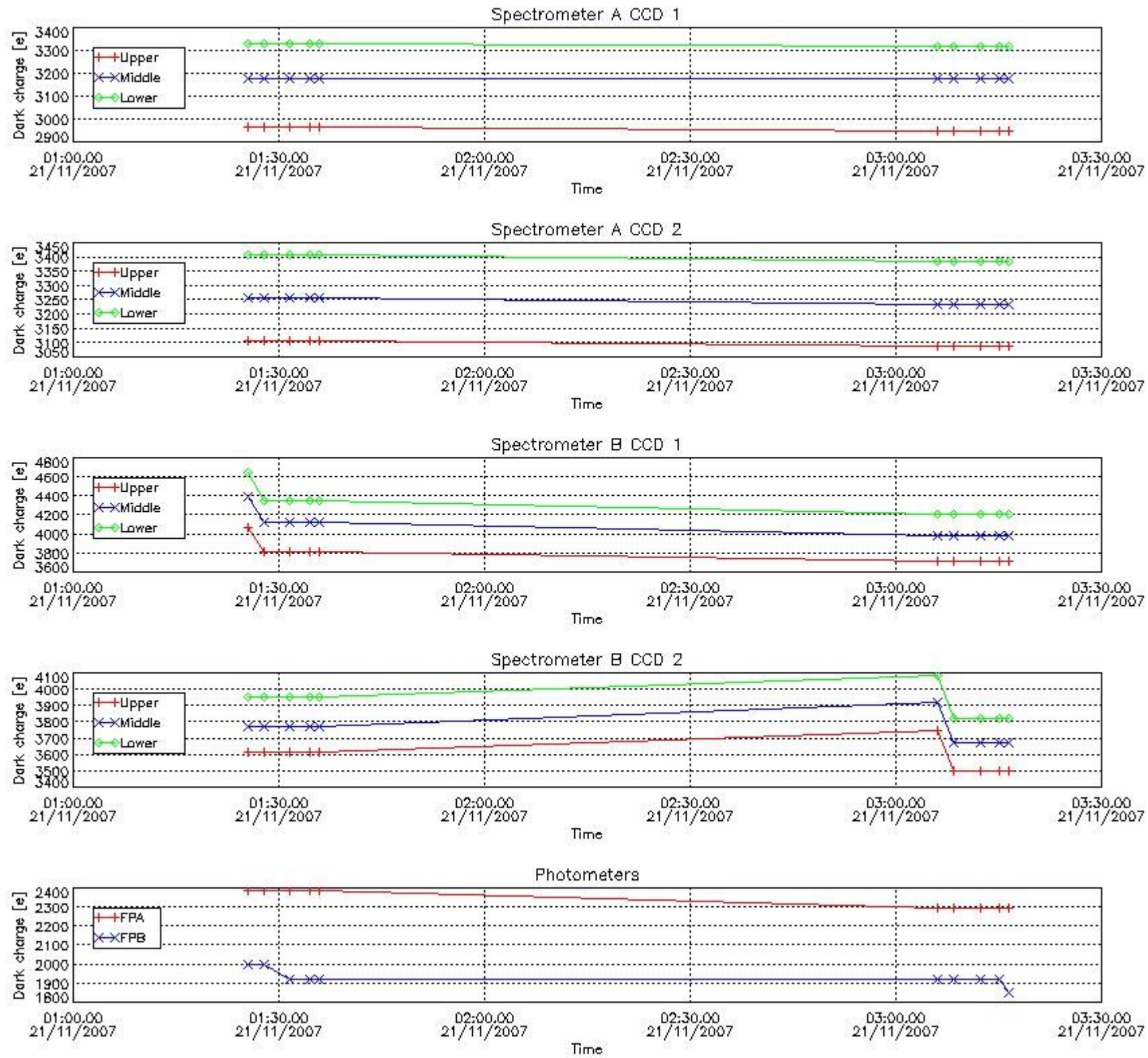
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





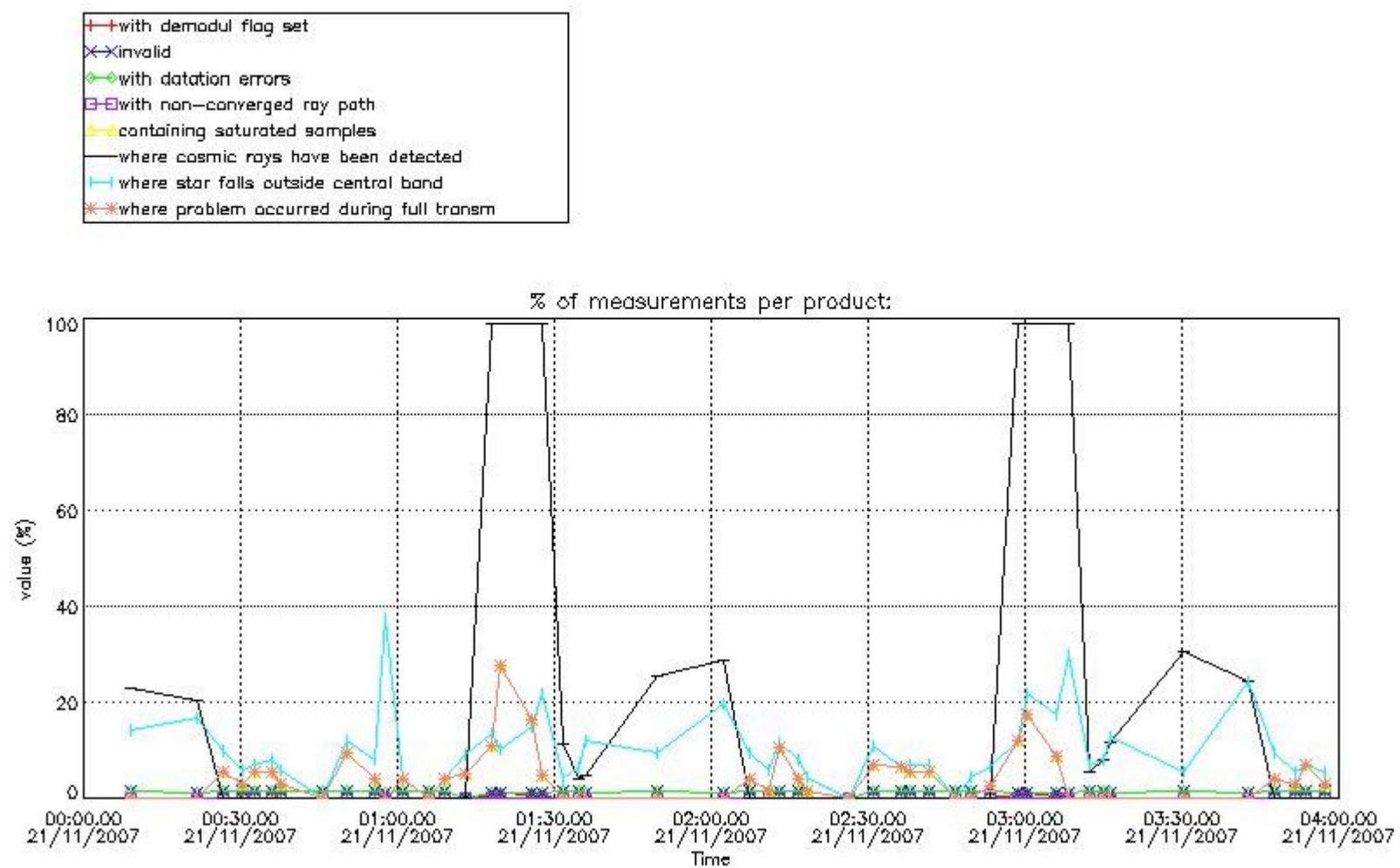
## 5. Demodulation flag and quality information monitoring

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.

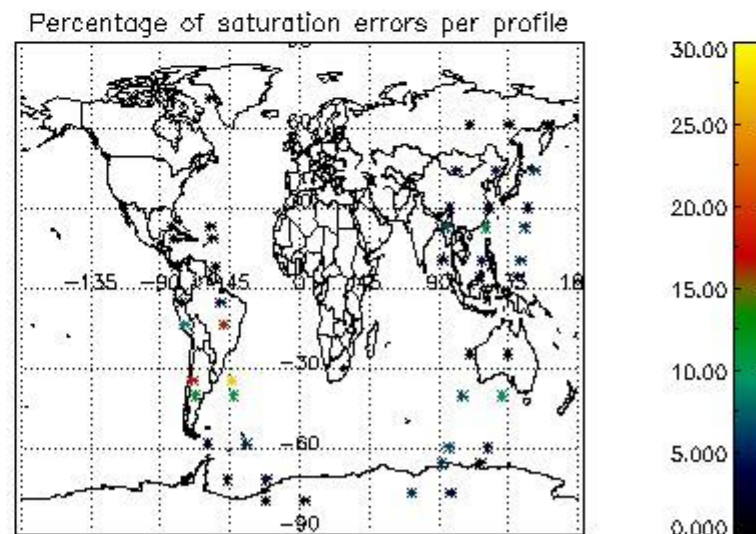
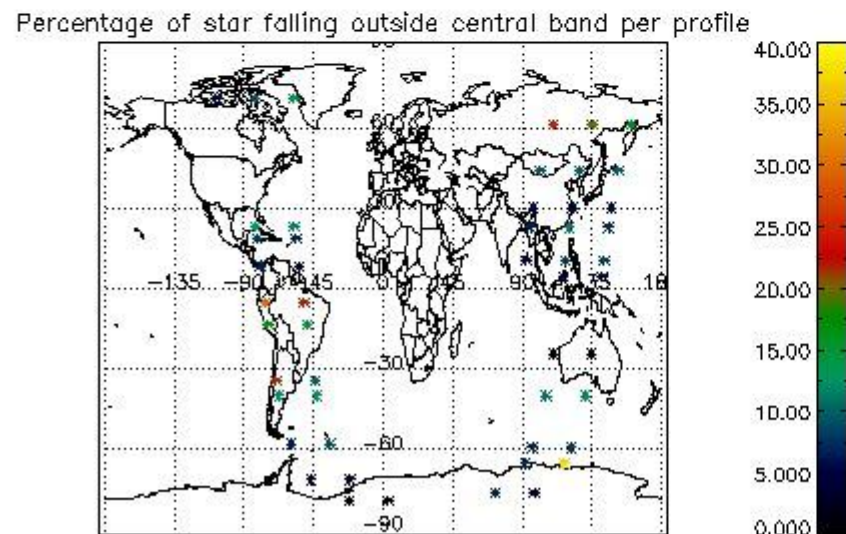
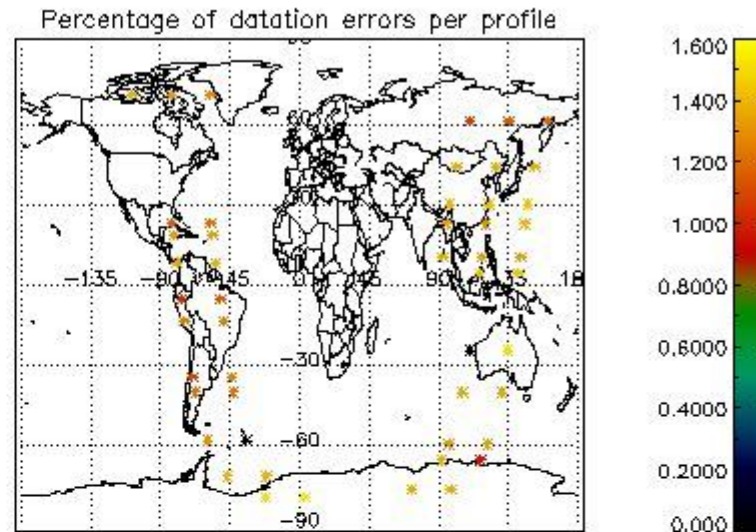
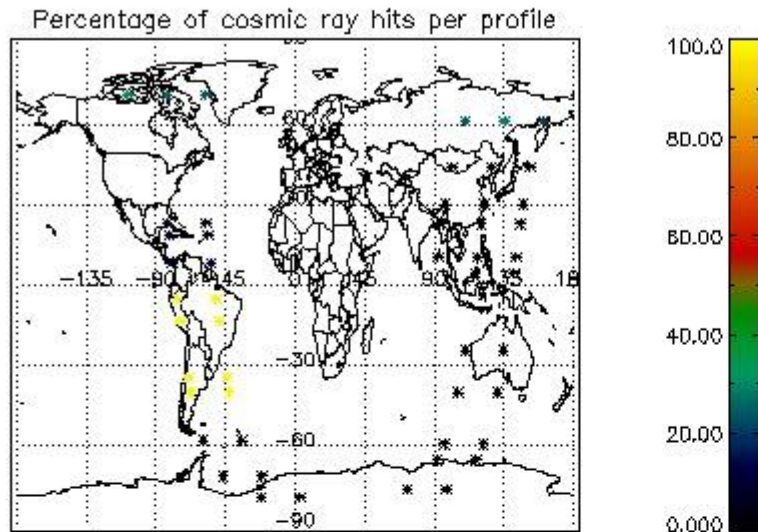
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	22.0000 %
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)

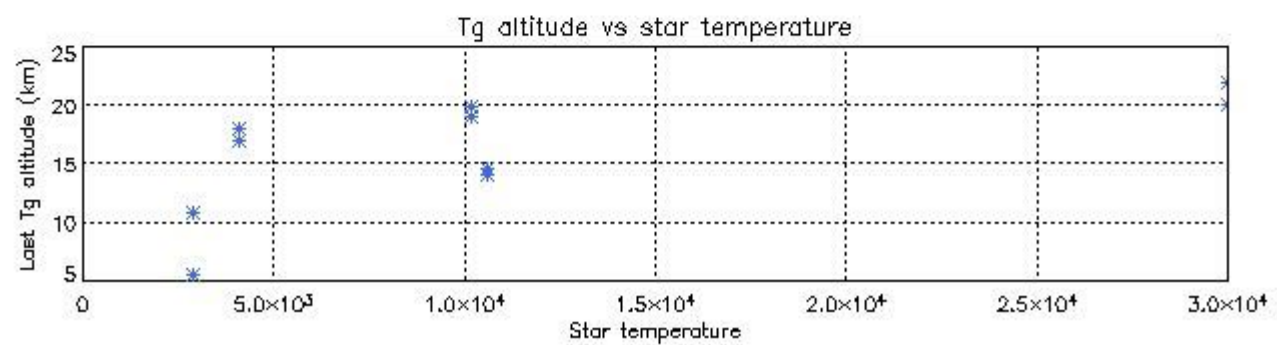
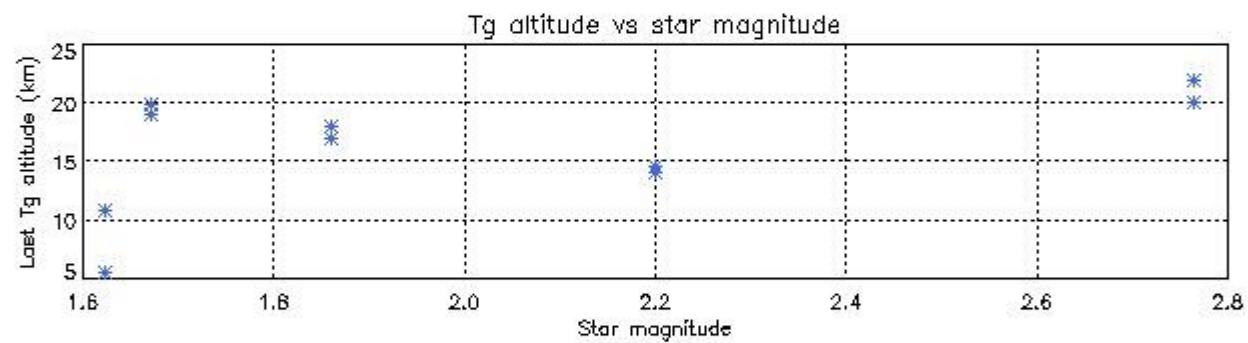
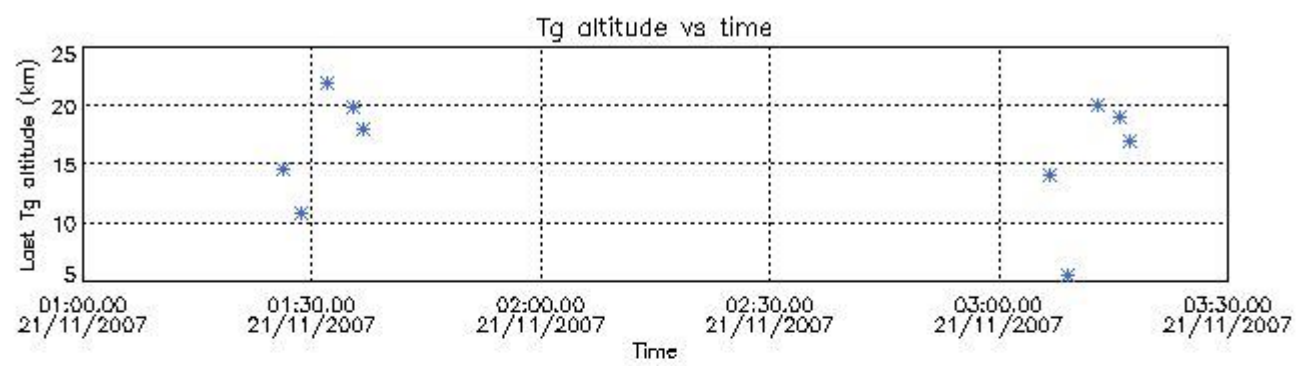
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.078	20.787	14.834
St. deviation:	4.9997	4.4856	5.1038
Maximum:	21.920	31.218	18.443
Minimum:	5.4566	3.6525	11.225
Number of data:	10.000	30.000	2.0000

### 6.2 Plot for DARK limb products



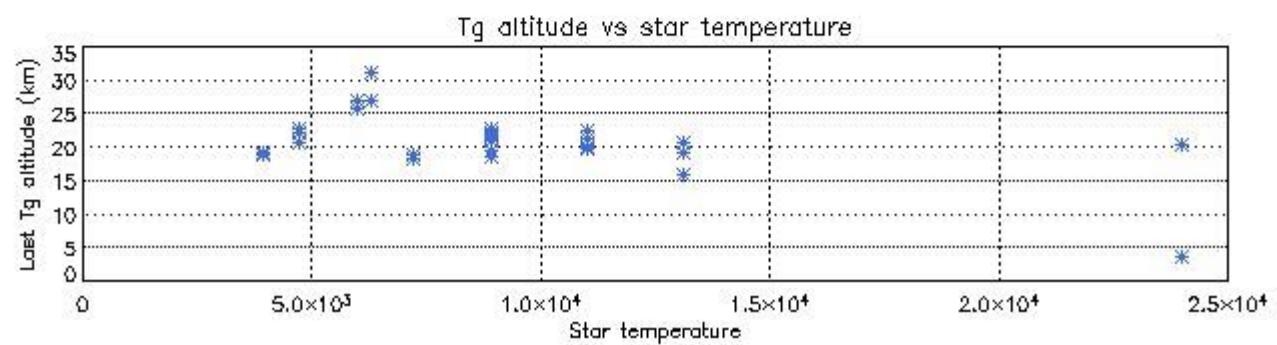
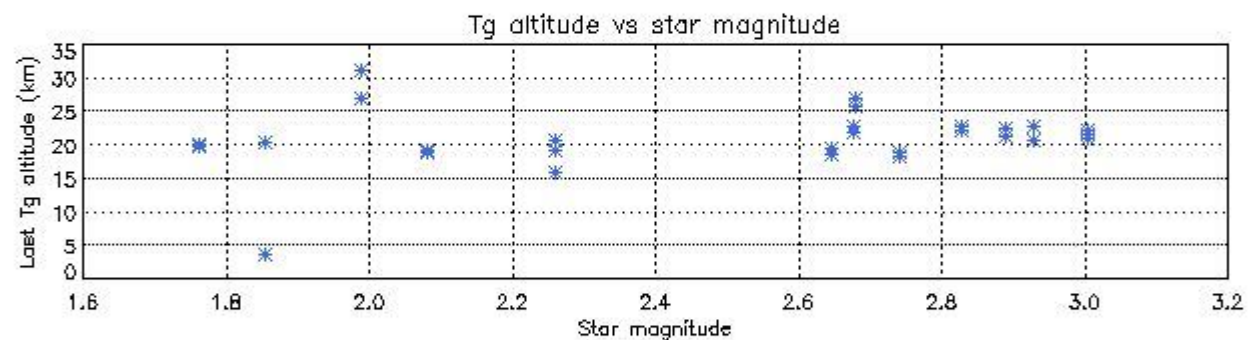
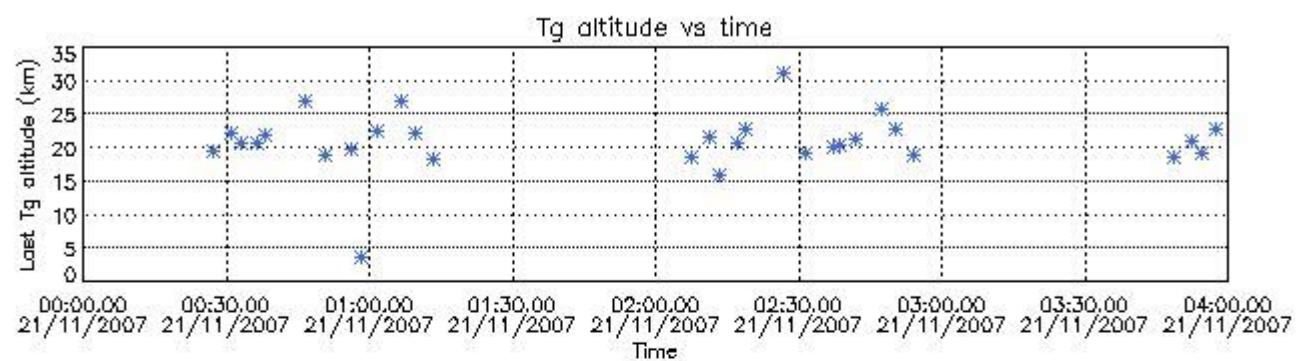
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

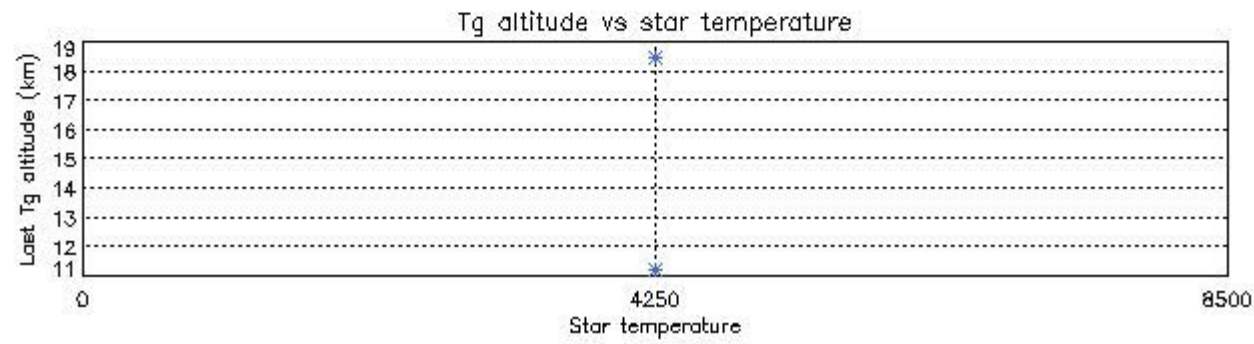
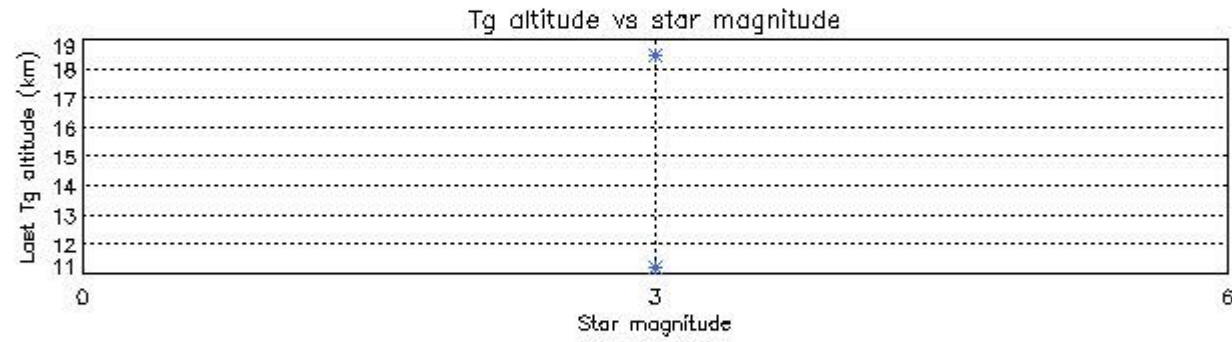
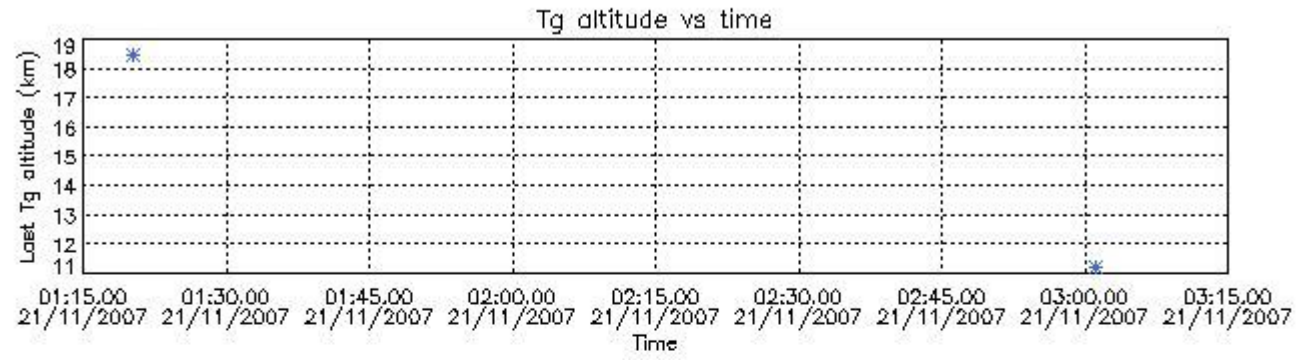


Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

## Tangent altitude at which the star is lost

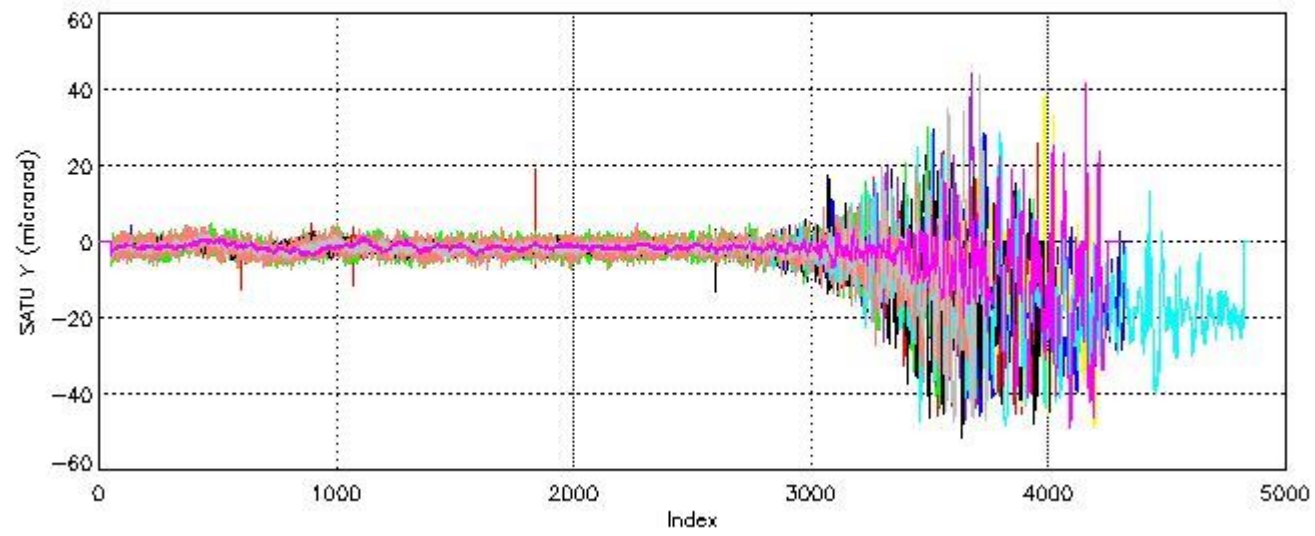
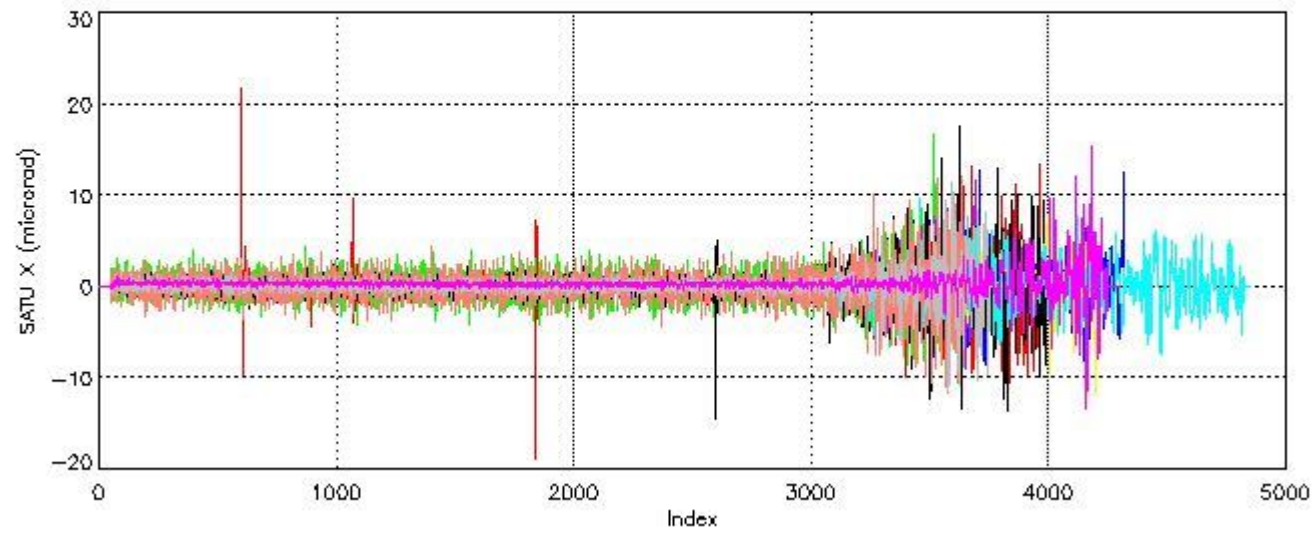


## 7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.073963	-1.4784	0.035954	-1.4186
St. deviation:	0.57389	1.3411	0.89055	1.6015
Maximum:	21.600	4.6000	5.0000	6.7000
Minimum:	-9.8000	-12.800	-6.1000	-9.2000



Number of data:	8750.0	8750.0	24450.	24450.
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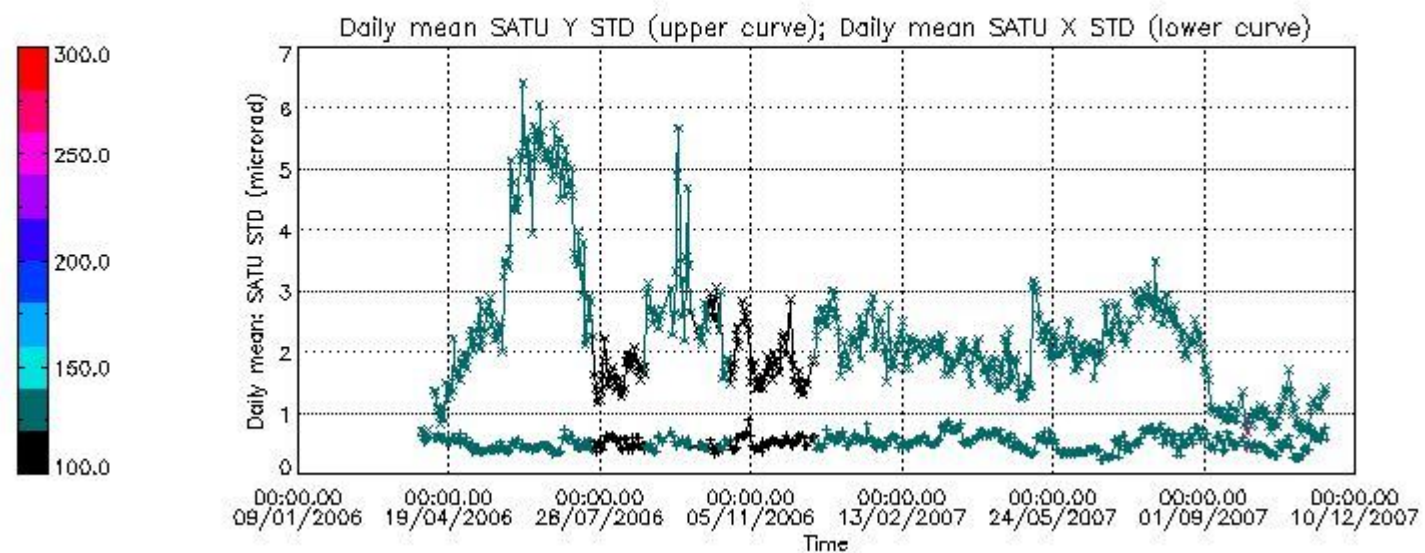
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

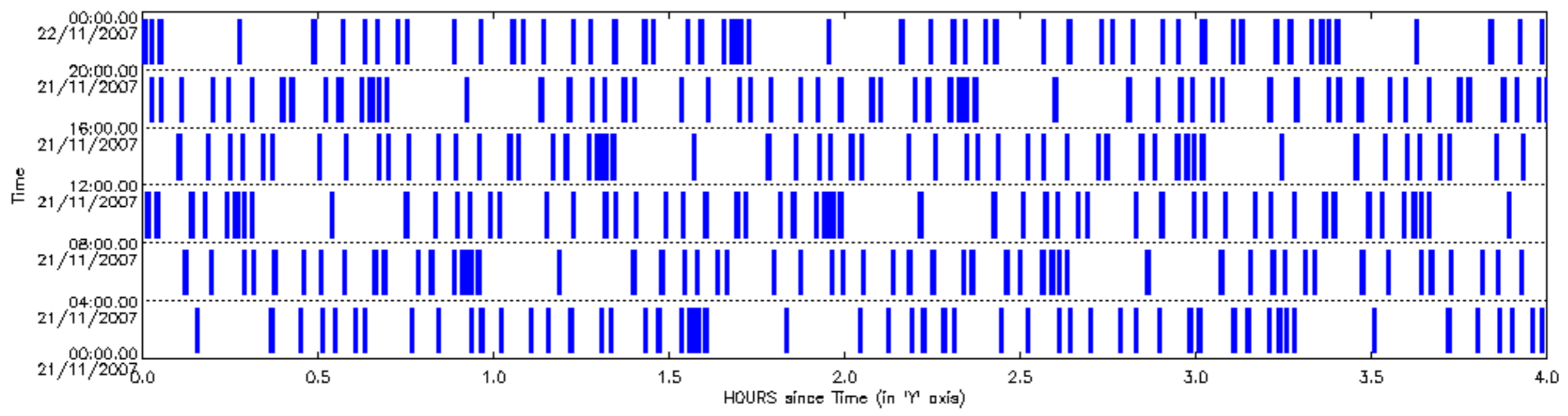
Lower curve: STD of SATU X axis

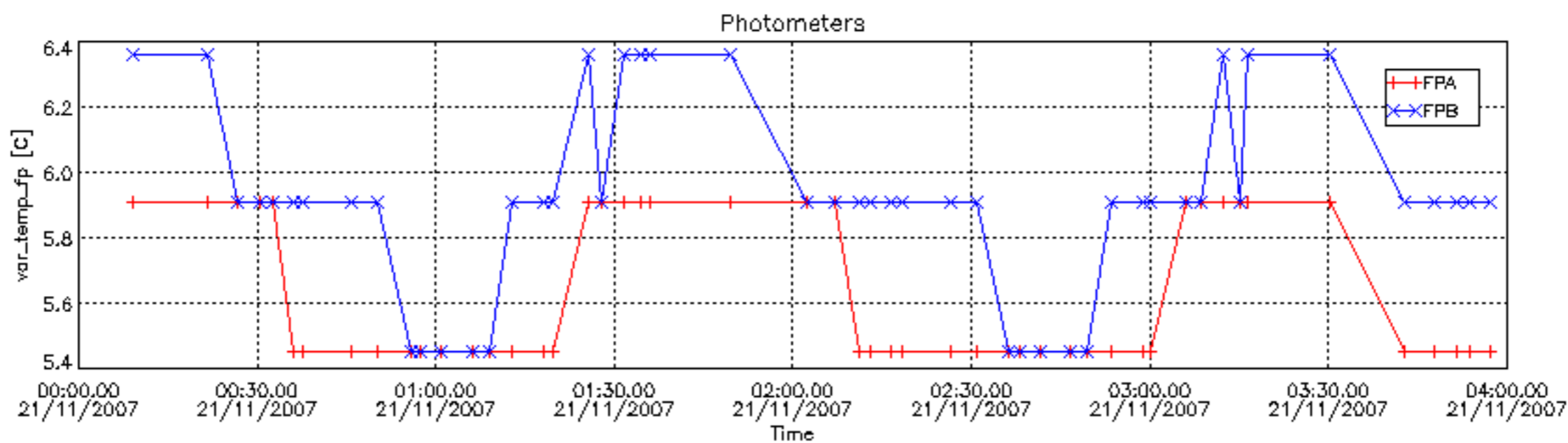
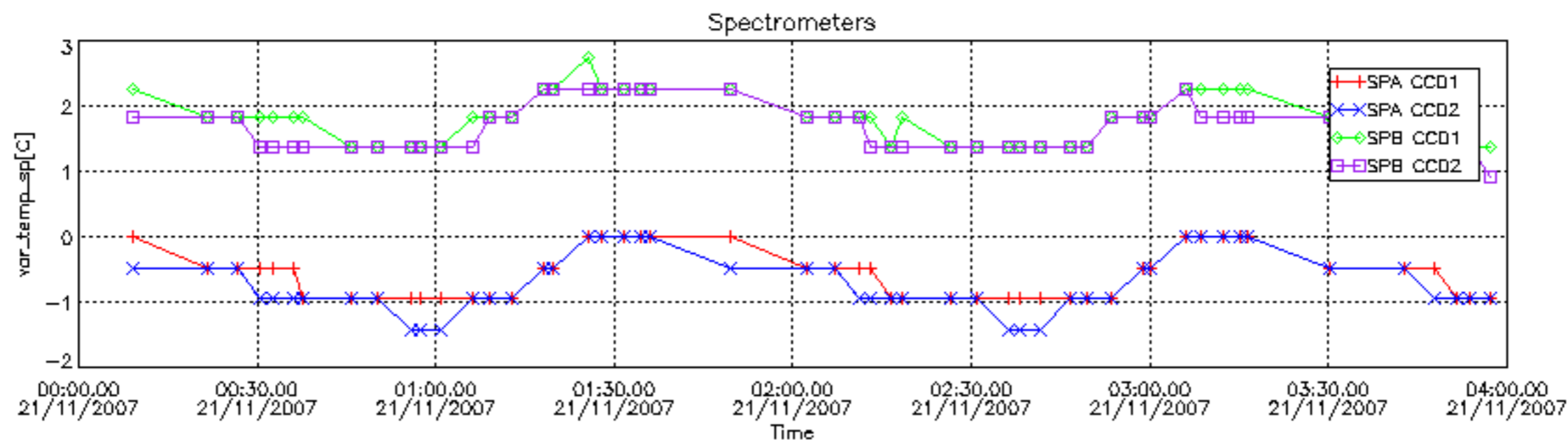


### 8. Auxiliary Data Files used for the production reported in section 2.4

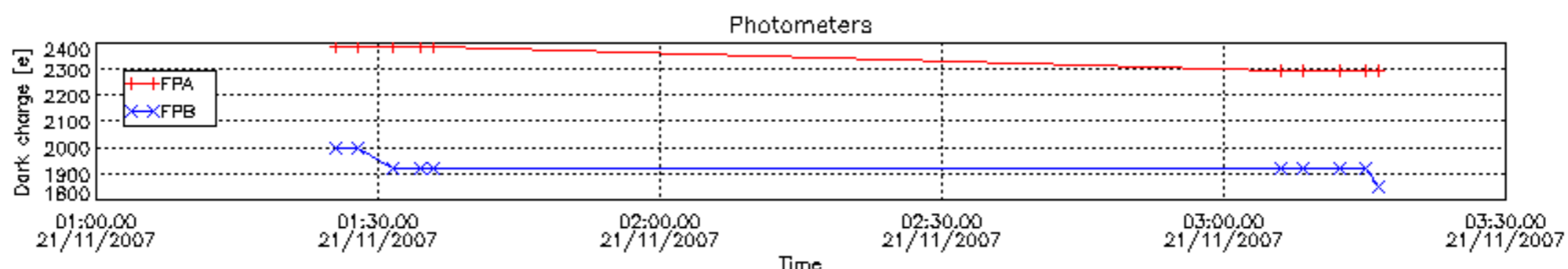
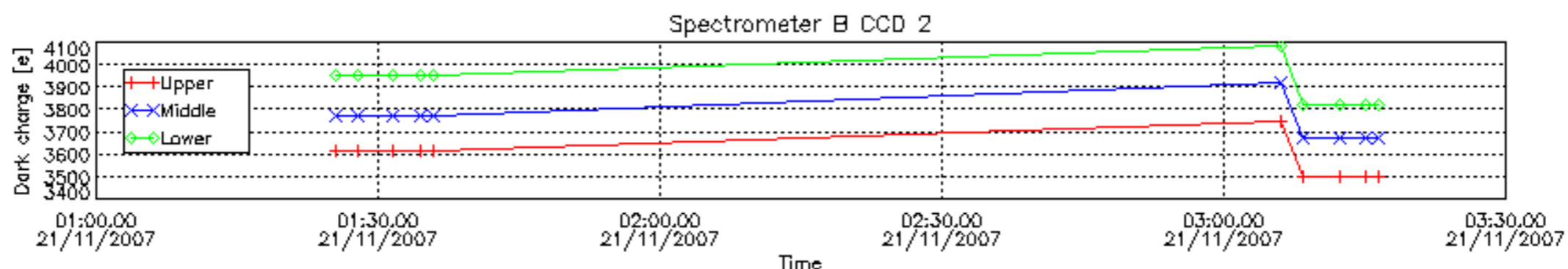
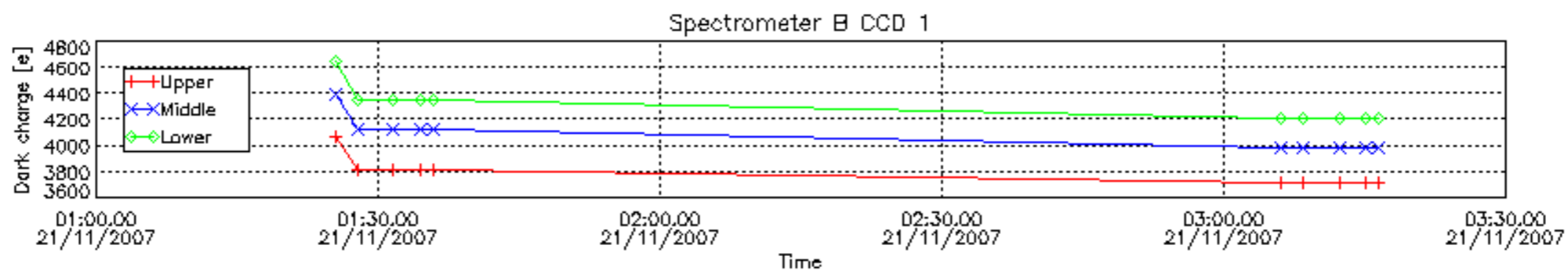
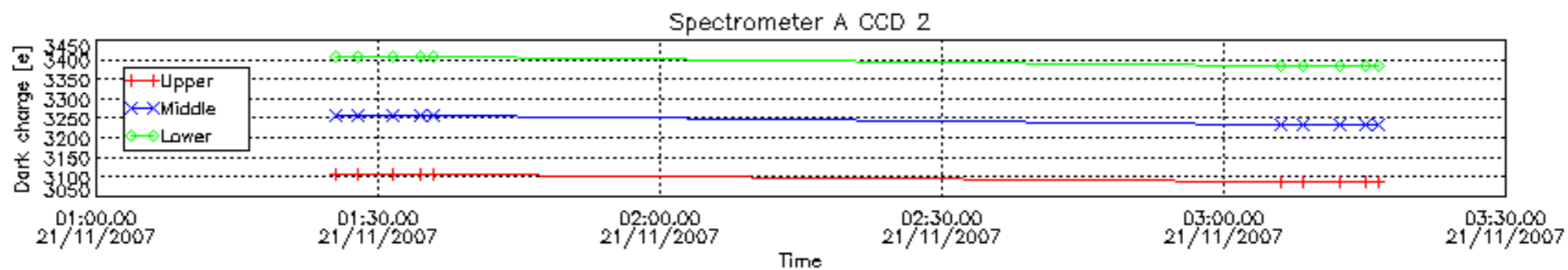
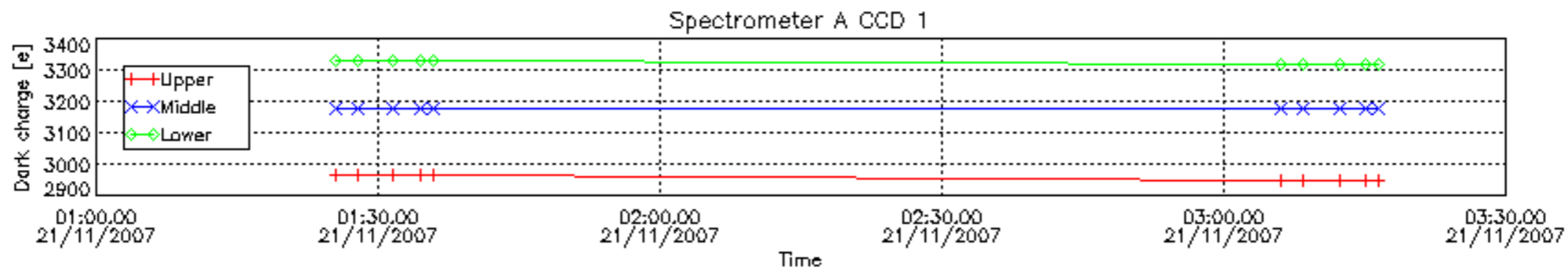
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

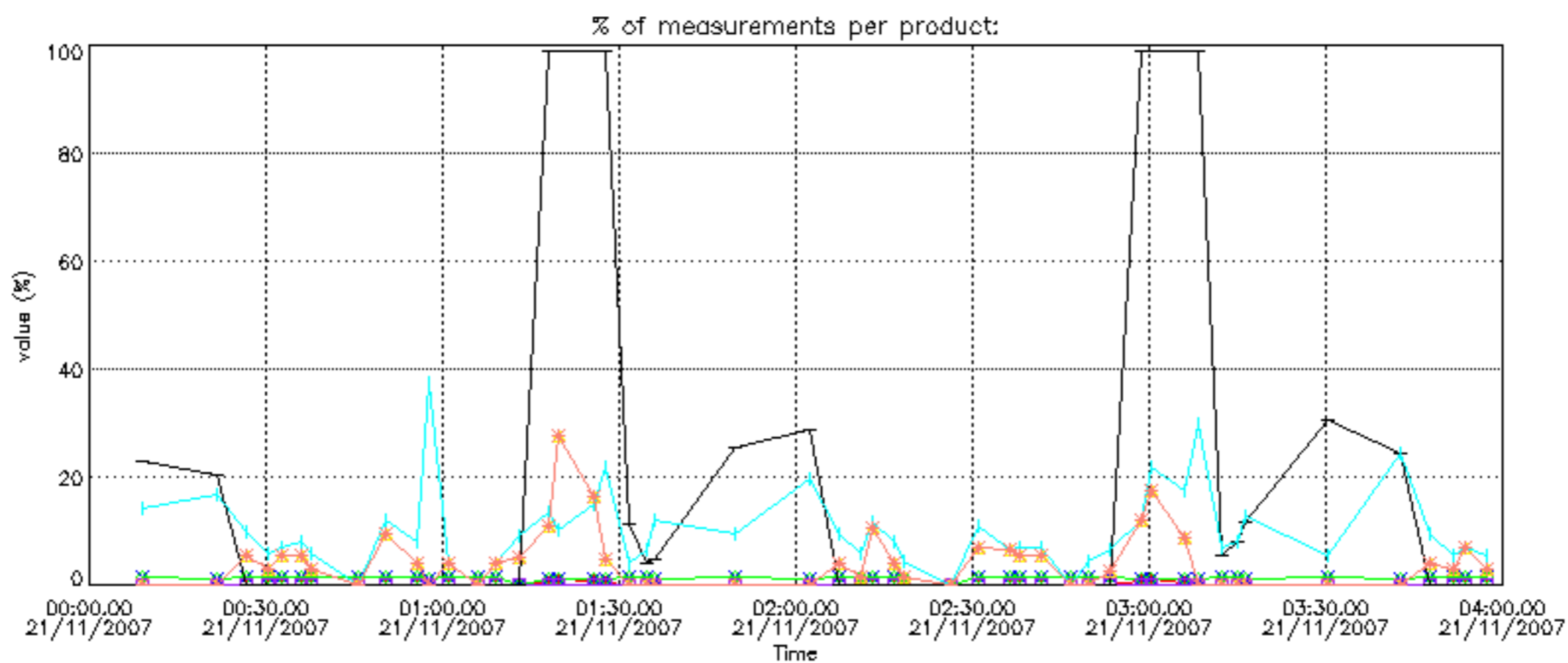
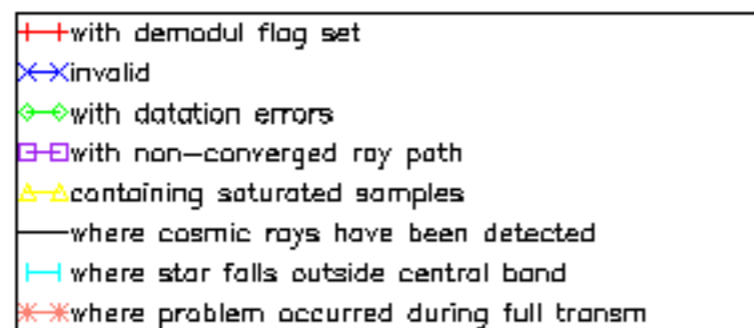
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	21-NOV-2007 00:08:59
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071114_162731_20071113_000000_20100101_000000	1	21-NOV-2007 00:08:59
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	21-NOV-2007 00:08:59
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	21-NOV-2007 00:08:59
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	21-NOV-2007 00:08:59
ECMWF_FILE	AUX_ECF_AXNECM20071120_063111_20071120_210000_20071121_090000	1	21-NOV-2007 00:08:59
OPTIONAL_ECMWF_FILE	MISSING	1	21-NOV-2007 00:08:59
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071120_215116_000057382063_00315_29928_4601.N1	1	21-NOV-2007 00:08:59
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071120_233213_000057382063_00316_29929_4602.N1	16	21-NOV-2007 01:18:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071121_011310_000041442063_00317_29930_4603.N1	31	21-NOV-2007 02:30:50



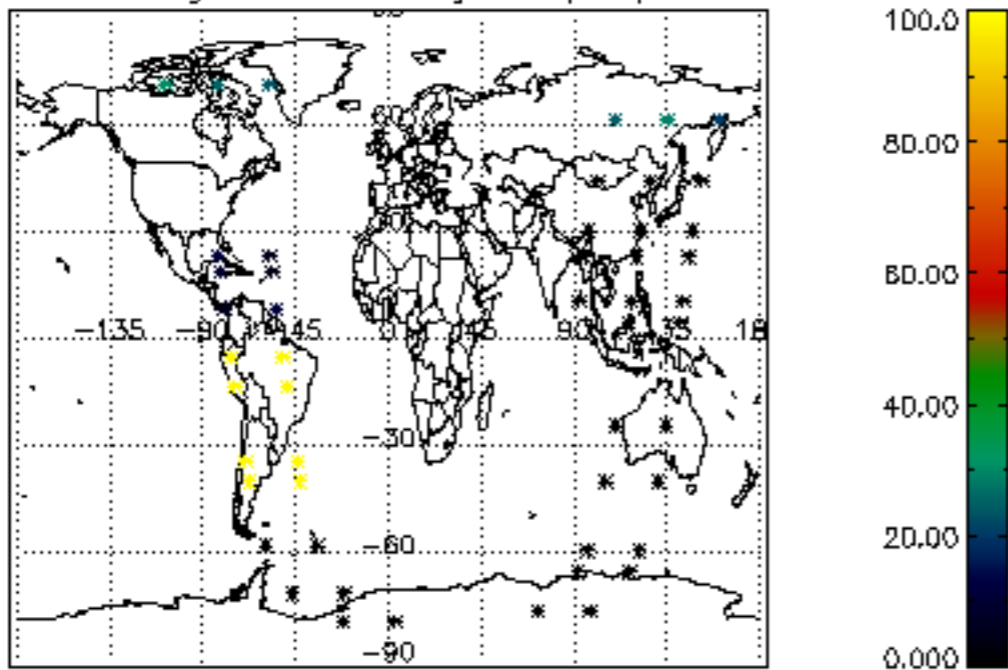




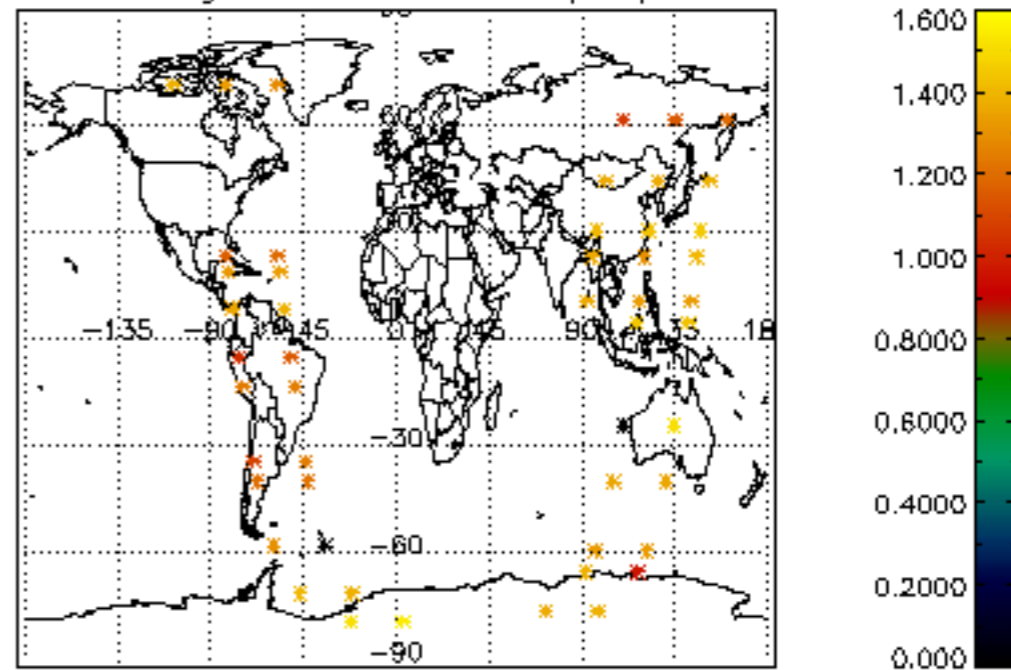




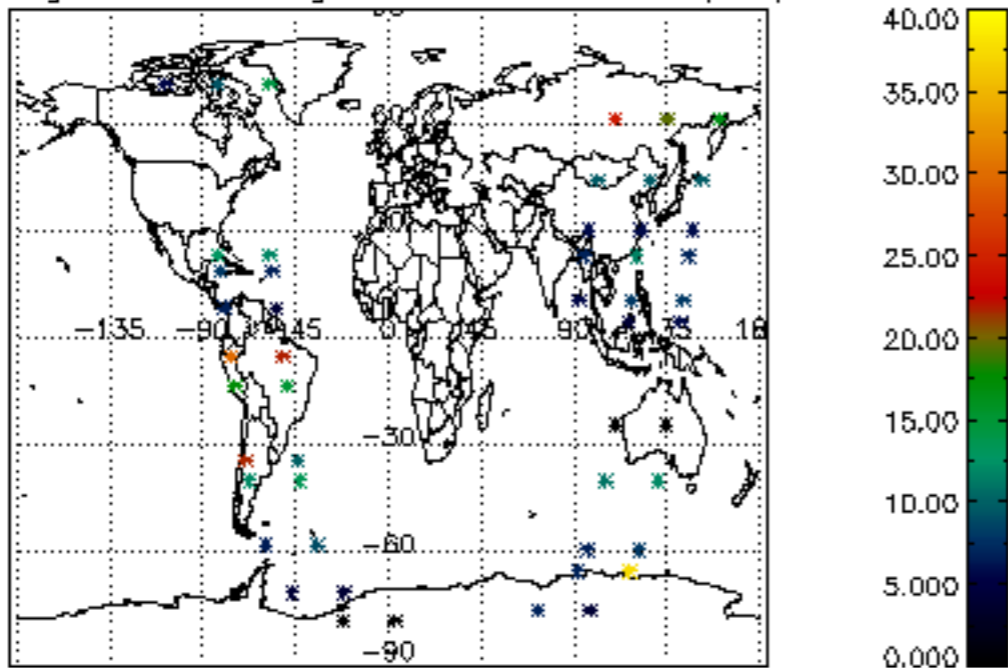
Percentage of cosmic ray hits per profile



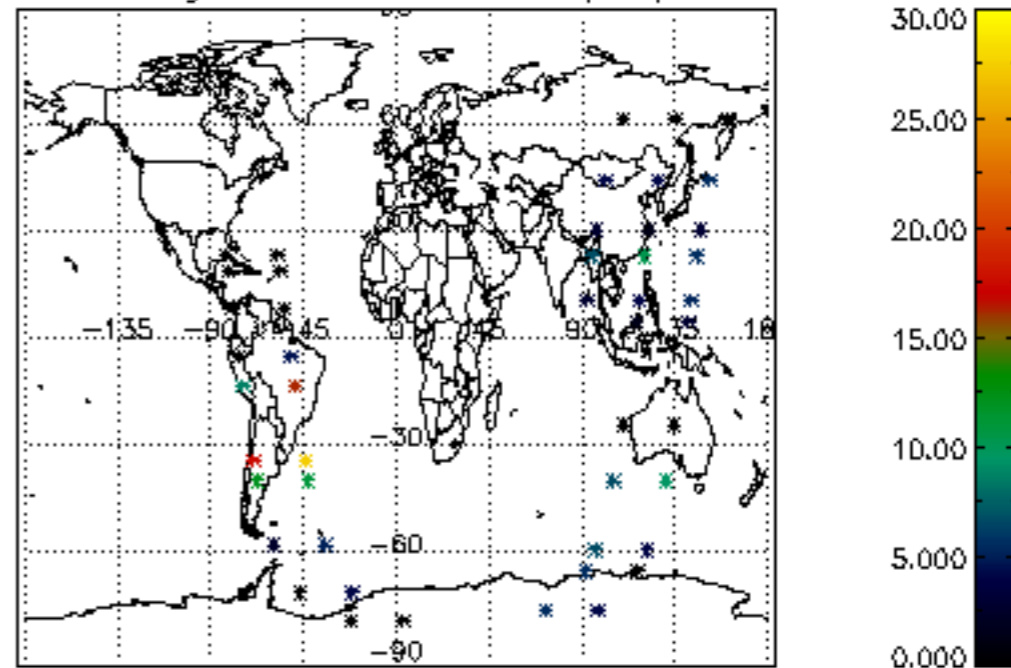
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

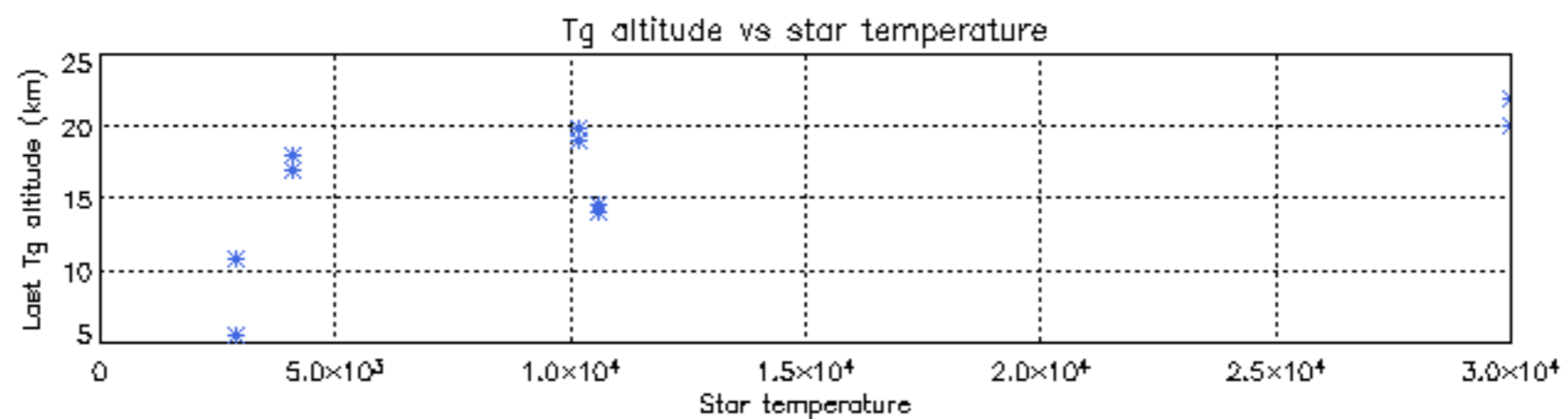
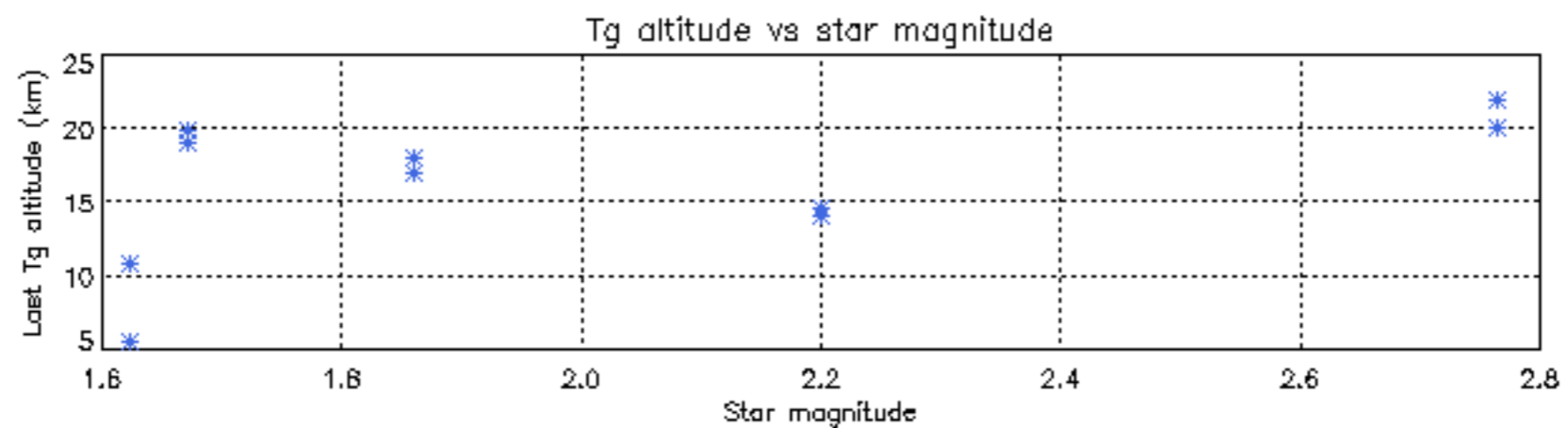
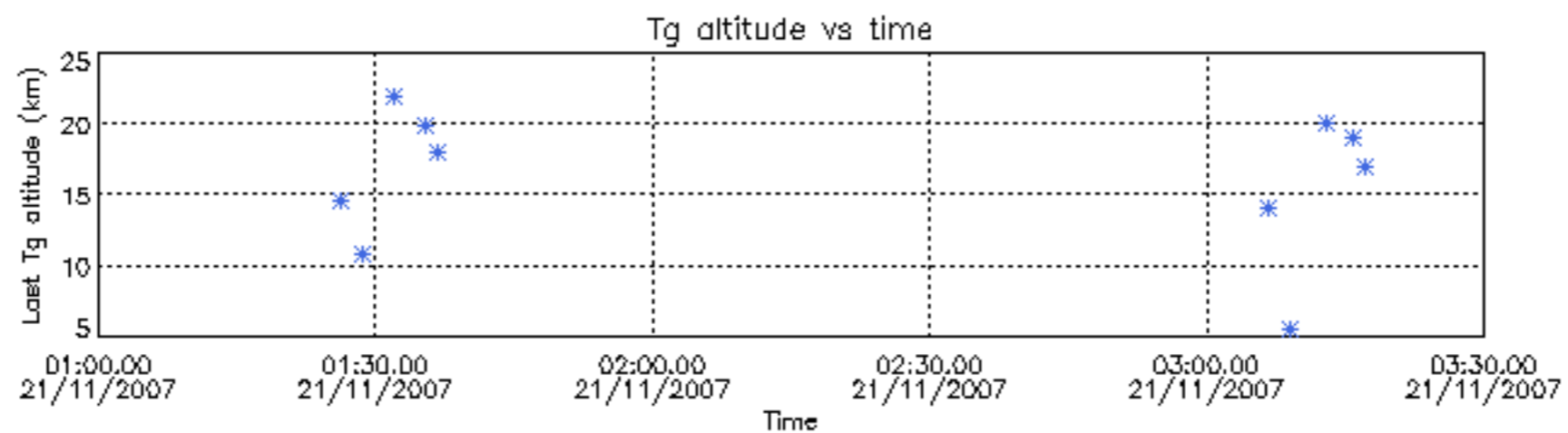


Percentage of saturation errors per profile

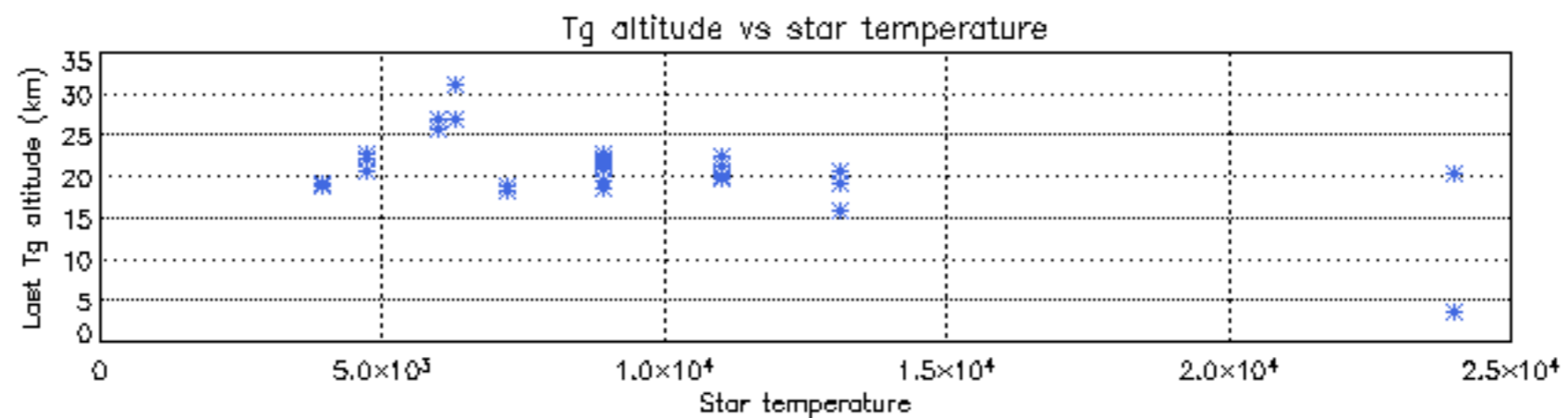
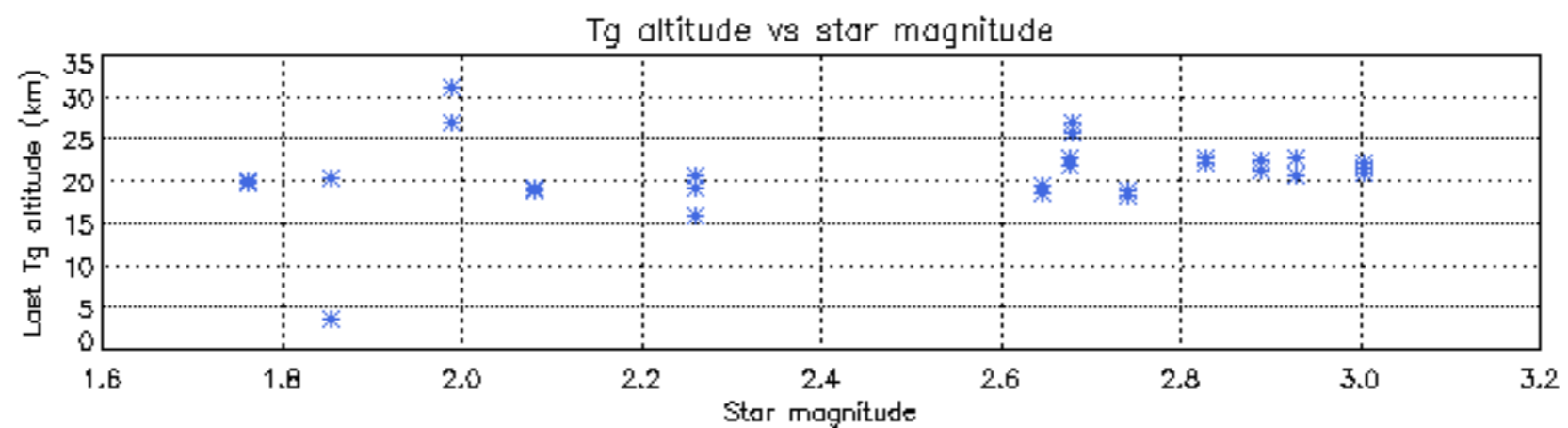
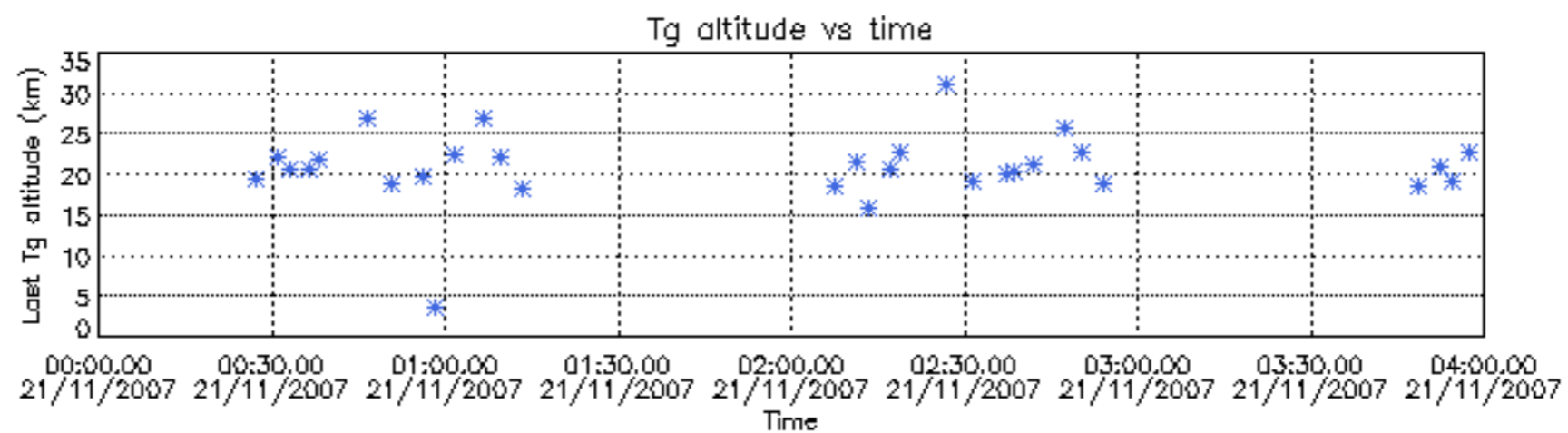




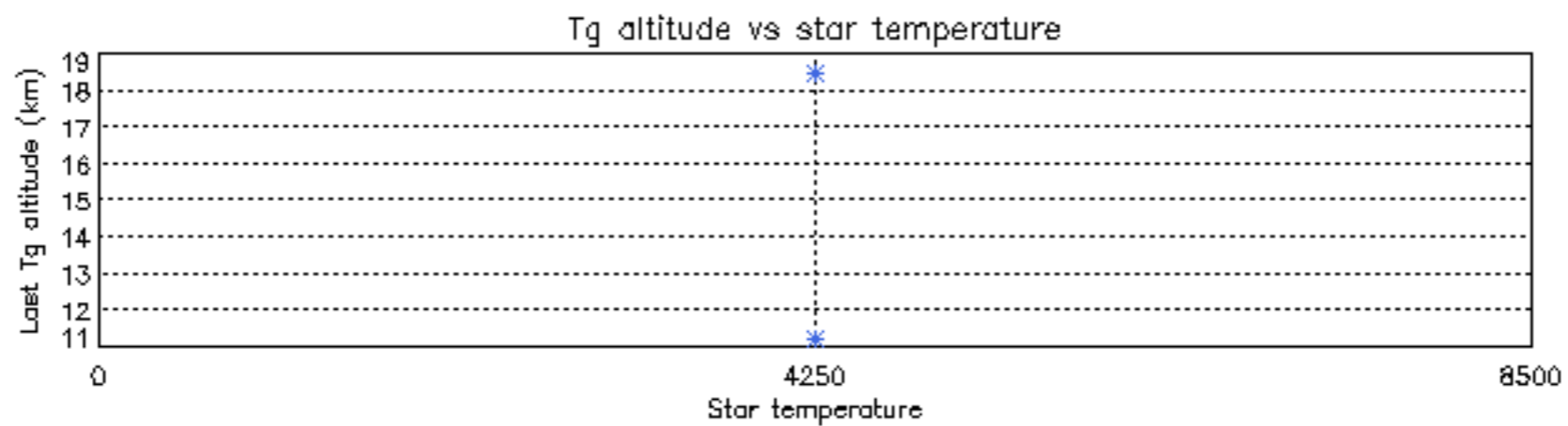
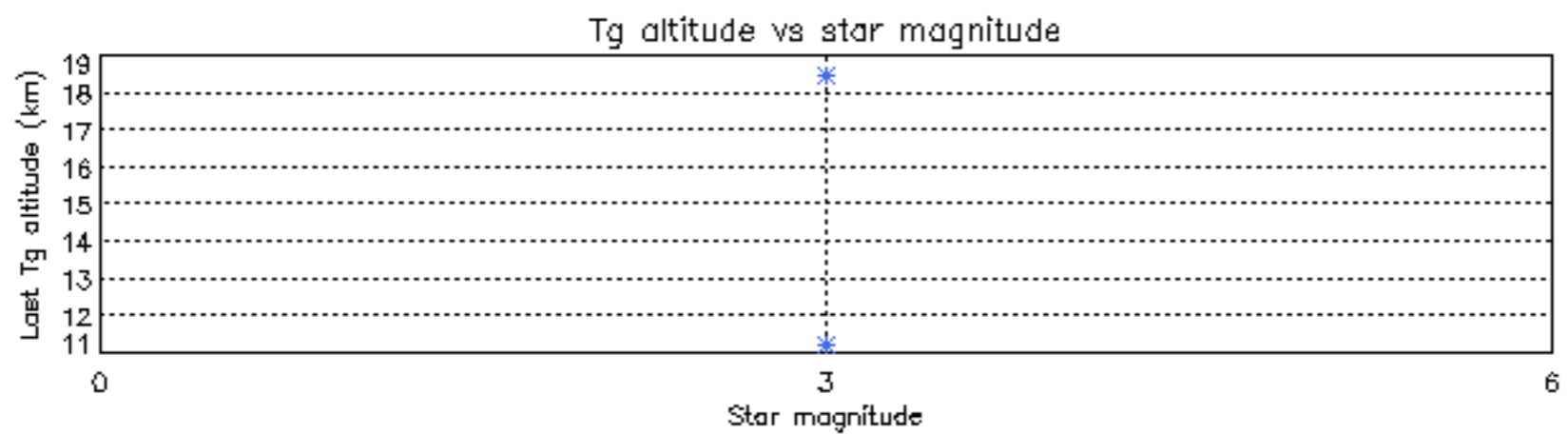
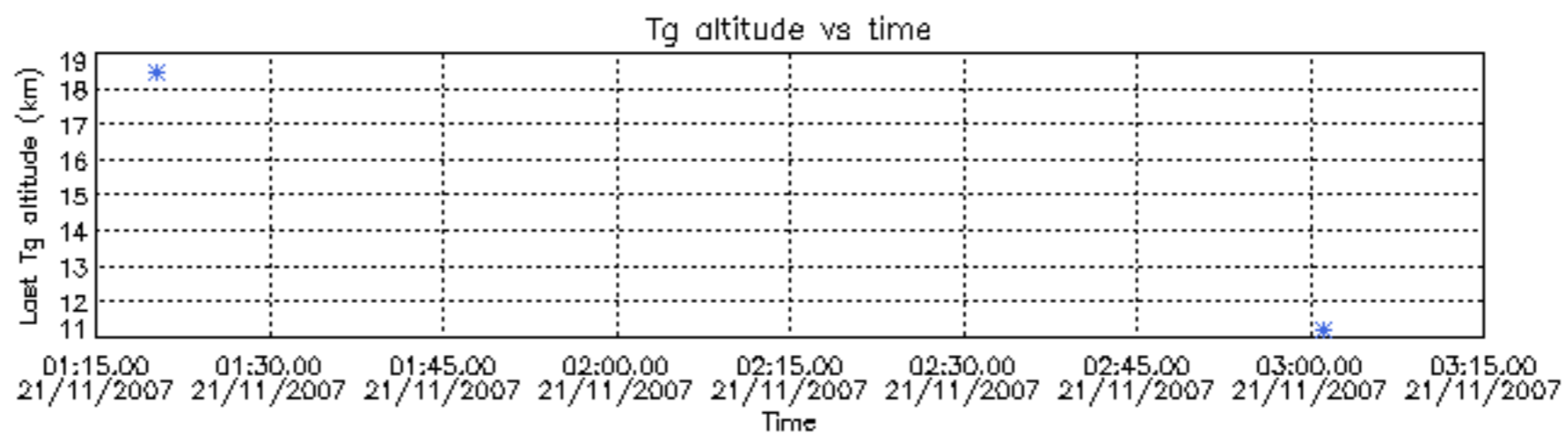
Tangent altitude at which the star is lost

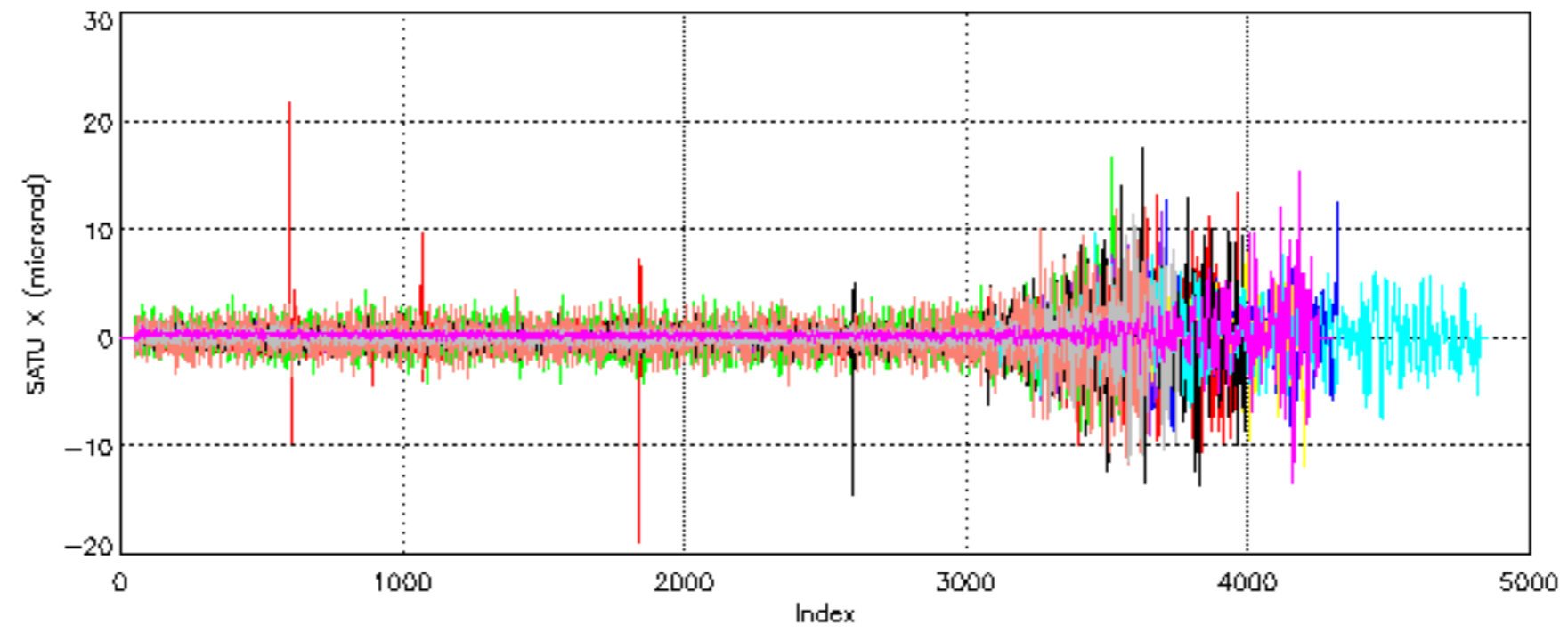


Tangent altitude at which the star is lost

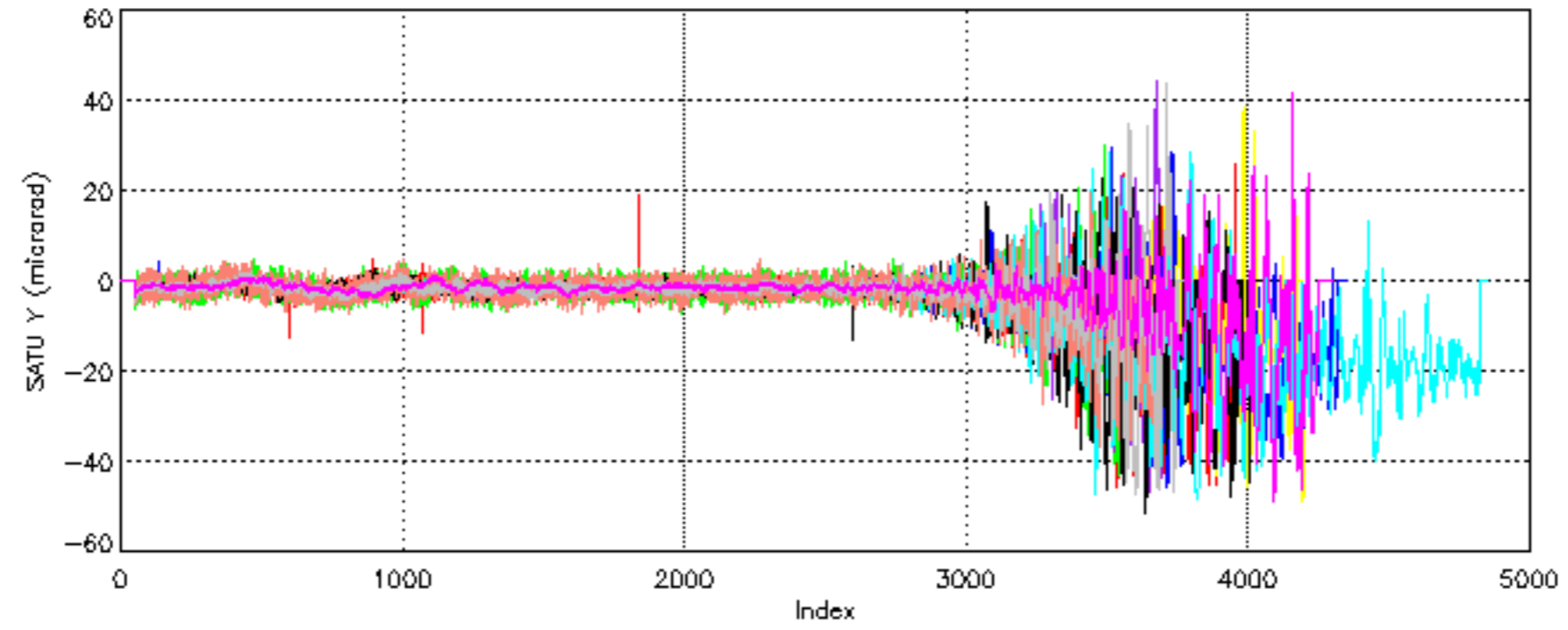


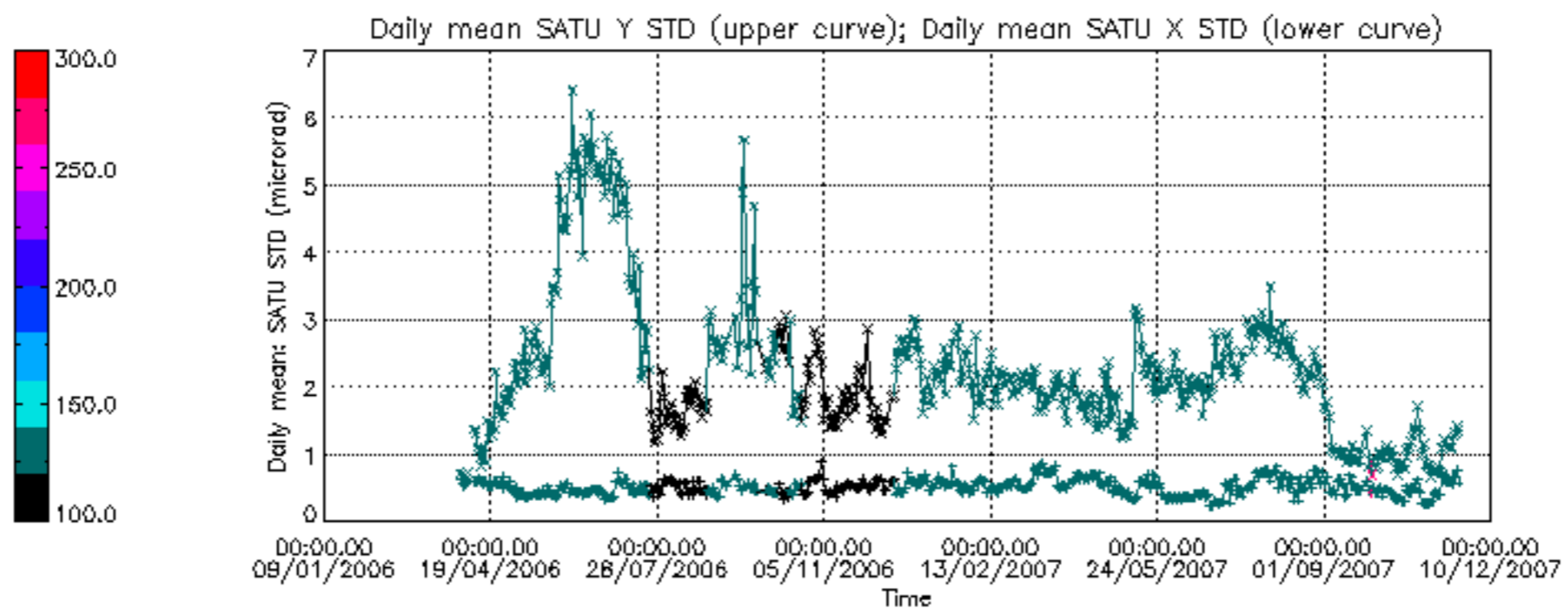
Tangent altitude at which the star is lost











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 4; 341.2; 01-NOV-2007 00:23:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29644  
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 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  
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 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  
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 13; 3912.7; 01-NOV-2007 01:22:43; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;29644  
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 8; 2514.7; 01-NOV-2007 02:40:00; Bright; 35.5; 53; 43Bet And ; 2.05; 3300;occ; 71; 0;29645  
 9; 2662.6; 01-NOV-2007 02:42:28; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;29645  
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 6; 132.7; 01-NOV-2007 03:40:54; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;29646  
 7; 213.6; 01-NOV-2007 03:42:15; Dark ; 41.0; 41; Eps Car ; 1.86; 4100;occ; 82; 0;29646  
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 6; 133.2; 01-NOV-2007 05:21:31; Dark ; 45.0; 46; Del Vel ; 1.95; 10600;occ; 90; 0;29647  
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 3; 2514.4; 01-NOV-2007 21:06:36; Bright; 37.0; 53; 43Bet And ; 2.05; 3300;occ; 74; 0;29656

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6; 2938.7; 01-NOV-2007 21:13:40; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;29656
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7; 214.8; 01-NOV-2007 07:03:28; Dark ; 40.5; 41; Eps Car ; 1.86; 4100;occ; 81; 0;29648
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10; 1140.5; 01-NOV-2007 07:18:54; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;29648
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11; 4138.3; 30-NOV-2007 09:37:54; Bright; 35.5; 39; 85Eta UMa ; 1.85; 24000;occ; 71; 0;30064
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 22; 6112.0; 30-NOV-2007 10:10:48; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;30064  
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 26; 6835.0; 30-NOV-2007 10:22:51; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0;30064

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 10; 4016.0; 30-NOV-2007 12:57:04; Bright; 36.5; 32; 77Eps UMa ; 1.76; 11000;occ; 73; 0;30066  
 11; 4138.4; 30-NOV-2007 12:59:06; Bright; 35.5; 39; 85Eta UMa ; 1.85; 24000;occ; 71; 0;30066  
 12; 4311.3; 30-NOV-2007 13:01:59; Bright; 35.5; 180; 27Gam Boo ; 3.04; 8000;occ; 71; 0;30066  
 13; 4642.8; 30-NOV-2007 13:07:31; Bright; 33.5; 3; 16Alp Boo ; -0.05; 4250;occ; 67; 0;30066  
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 16; 5201.8; 30-NOV-2007 13:16:50; Bright; 38.5; 15; 67Alp Vir ; 0.98; 28000;occ; 77; 0;30066  
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 18; 5493.9; 30-NOV-2007 13:21:42; Dark ; 42.0; 106; 9Bet Crv ; 2.65; 5600;occ; 84; 0;30066  
 19; 5617.4; 30-NOV-2007 13:23:45; Dark ; 38.5; 123; Iot Cen ; 2.75; 10200;occ; 77; 0;30066  
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 22; 6113.6; 30-NOV-2007 13:32:01; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;30066  
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 26; 6836.1; 30-NOV-2007 13:44:04; Dark ; 54.0; 2; Alp Car ; -0.74; 7000;occ; 108; 0;30066

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 9; 3701.4; 30-NOV-2007 16:13:01; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;30068  
 10; 4015.9; 30-NOV-2007 16:18:16; Bright; 39.0; 32; 77Eps UMa ; 1.76; 11000;occ; 78; 0;30068  
 11; 4138.6; 30-NOV-2007 16:20:18; Bright; 35.5; 39; 85Eta UMa ; 1.85; 24000;occ; 71; 0;30068  
 12; 4311.9; 30-NOV-2007 16:23:11; Bright; 34.5; 180; 27Gam Boo ; 3.04; 8000;occ; 69; 0;30068  
 13; 4643.3; 30-NOV-2007 16:28:43; Bright; 34.0; 3; 16Alp Boo ;-0.05; 4250;occ; 68; 0;30068  
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 15; 5113.4; 30-NOV-2007 16:36:33; Bright; 40.0; 121; 29Gam Vir ; 2.74; 7200;occ; 80; 0;30068  
 16; 5202.7; 30-NOV-2007 16:38:02; Bright; 40.0; 15; 67Alp Vir ; 0.98; 28000;occ; 80; 0;30068  
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 26; 6515.2; 30-NOV-2007 18:40:31; Dark ; 47.0; 41; Eps Car ; 1.86; 4100;occ; 94; 0;30069  
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