

# GOMOS Daily Report 06-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	08NOV2007 05:59:17
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (06NOV2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (07NOV2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	53
Nb of prods with errors	0

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

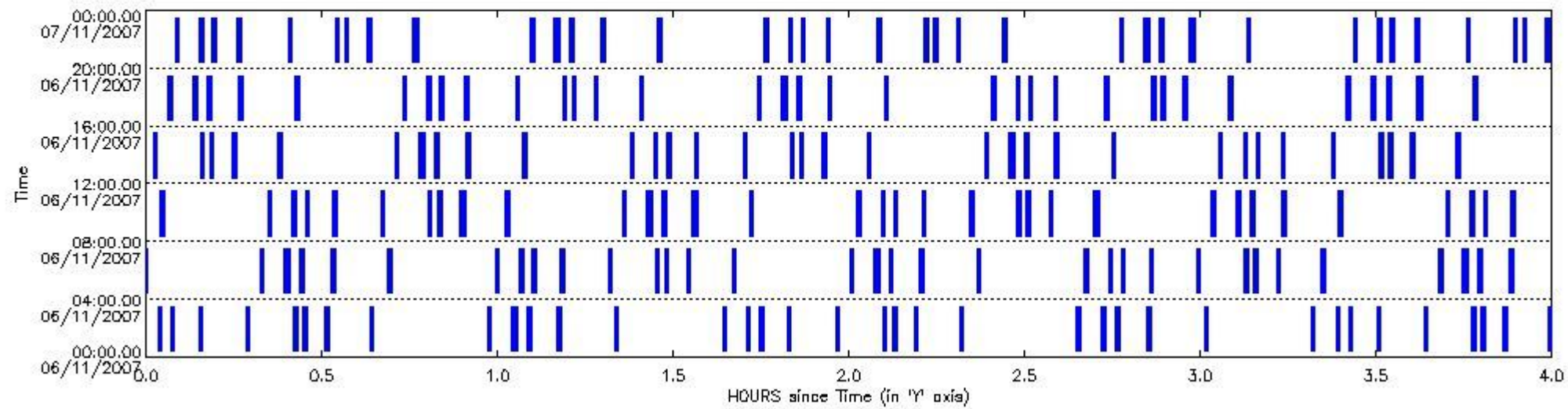
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

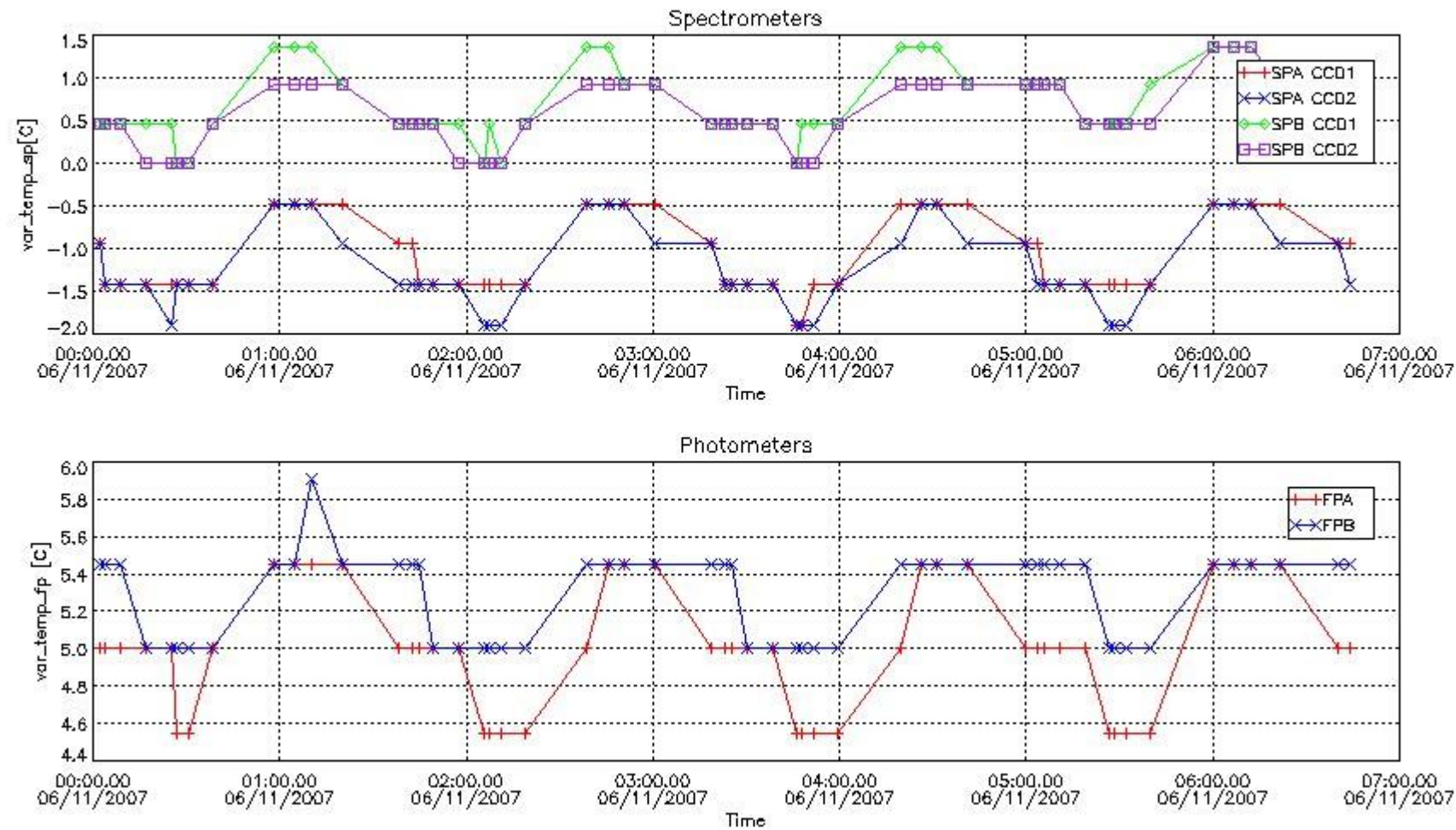
No missing products.

### 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_1PNPDE20071106_000155_000000372063_00102_29715_5665.N1	06-NOV-2007 00:01:55	Bright	36.500	53	43Bet And	2.0480	3300.0	73	29715	No
2	GOM_TRA_1PNPDE20071106_000406_000000382063_00102_29715_5666.N1	06-NOV-2007 00:04:06	Bright	38.000	73	57Gam1And	2.2600	13100.	76	29715	No
3	GOM_TRA_1PNPDE20071106_000853_000000362063_00102_29715_5667.N1	06-NOV-2007 00:08:53	Bright	36.000	110	37Del Cas	2.6780	8900.0	72	29715	No
4	GOM_TRA_1PNPDE20071106_001704_000000322063_00102_29715_5668.N1	06-NOV-2007 00:17:04	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	29715	No
5	GOM_TRA_1PNPDE20071106_002506_000000412063_00102_29715_5669.N1	06-NOV-2007 00:25:06	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	29715	No
6	GOM_TRA_1PNPDE20071106_002643_000000392063_00102_29715_5670.N1	06-NOV-2007 00:26:43	Bright	38.500	82	48Bet UMa	2.3650	10600.	77	29715	No
7	GOM_TRA_1PNPDE20071106_003030_000000392063_00102_29715_5671.N1	06-NOV-2007 00:30:30	Bright	39.000	174	52Psi UMa	3.0040	4400.0	78	29715	No
8	GOM_TRA_1PNPDE20071106_003811_000000412063_00102_29715_5672.N1	06-NOV-2007 00:38:11	Bright	40.500	96	68Del Leo	2.5600	9300.0	81	29715	No
9	GOM_TRA_1PNPDE20071106_005814_000000392063_00102_29715_5824.N1	06-NOV-2007 00:58:14	Dark	39.000	113	Mu Vel	2.6920	5000.0	78	29715	No
10	GOM_TRA_1PNPDE20071106_010455_000000462063_00103_29716_5825.N1	06-NOV-2007 01:04:55	Dark	45.500	34	Gam2Vel	1.7930	23000.	91	29716	No
11	GOM_TRA_1PNPDE20071106_011010_000000502063_00103_29716_5826.N1	06-NOV-2007 01:10:10	Dark	49.500	2	Alp Car	-0.73600	7000.0	99	29716	No
12	GOM_TRA_1PNPDE20071106_011958_000000372063_00103_29716_5827.N1	06-NOV-2007 01:19:58	Straylight	37.000	157	The1Eri	2.9060	9300.0	74	29716	No

13	GOM_TRA_1PNPDE20071106_013822_000000392063_00103_29716_5828.N1	06-NOV-2007 01:38:22	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	29716	No
14	GOM_TRA_1PNPDE20071106_014231_000000372063_00103_29716_5829.N1	06-NOV-2007 01:42:31	Bright	36.500	53	43Bet And	2.0480	3300.0	73	29716	No
15	GOM_TRA_1PNPDE20071106_014442_000000382063_00103_29716_5830.N1	06-NOV-2007 01:44:42	Bright	37.500	73	57Gam1And	2.2600	13100.	75	29716	No
16	GOM_TRA_1PNPDE20071106_014929_000000342063_00103_29716_5831.N1	06-NOV-2007 01:49:29	Bright	34.000	110	37Del Cas	2.6780	8900.0	68	29716	No
17	GOM_TRA_1PNPDE20071106_015740_000000342063_00103_29716_5832.N1	06-NOV-2007 01:57:40	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	29716	No
18	GOM_TRA_1PNPDE20071106_020542_000000392063_00103_29716_5833.N1	06-NOV-2007 02:05:42	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	29716	No
19	GOM_TRA_1PNPDE20071106_020719_000000572063_00103_29716_5834.N1	06-NOV-2007 02:07:19	Bright	57.000	82	48Bet UMa	2.3650	10600.	114	29716	No
20	GOM_TRA_1PNPDE20071106_021106_000000402063_00103_29716_5835.N1	06-NOV-2007 02:11:06	Bright	39.500	174	52Psi UMa	3.0040	4400.0	79	29716	No
21	GOM_TRA_1PNPDE20071106_021847_000000402063_00103_29716_5836.N1	06-NOV-2007 02:18:47	Bright	40.000	96	68Del Leo	2.5600	9300.0	80	29716	No
22	GOM_TRA_1PNPDE20071106_023850_000000402063_00103_29716_5992.N1	06-NOV-2007 02:38:50	Dark	40.000	113	Mu Vel	2.6920	5000.0	80	29716	No
23	GOM_TRA_1PNPDE20071106_024532_000000452063_00104_29717_5993.N1	06-NOV-2007 02:45:32	Dark	45.000	34	Gam2Vel	1.7930	23000.	90	29717	No
24	GOM_TRA_1PNPDE20071106_025047_000000522063_00104_29717_5994.N1	06-NOV-2007 02:50:47	Dark	51.500	2	Alp Car	-0.73600	7000.0	103	29717	No
25	GOM_TRA_1PNPDE20071106_030035_000000392063_00104_29717_5995.N1	06-NOV-2007 03:00:35	Straylight	38.500	157	The1Eri	2.9060	9300.0	77	29717	No
26	GOM_TRA_1PNPDE20071106_031858_000000382063_00104_29717_5996.N1	06-NOV-2007 03:18:58	Bright	38.000	105	6Bet Ari	2.6450	8900.0	76	29717	No
27	GOM_TRA_1PNPDE20071106_032307_000000392063_00104_29717_5997.N1	06-NOV-2007 03:23:07	Bright	39.000	53	43Bet And	2.0480	3300.0	78	29717	No
28	GOM_TRA_1PNPDE20071106_032517_000000382063_00104_29717_5998.N1	06-NOV-2007 03:25:17	Bright	38.000	73	57Gam1And	2.2600	13100.	76	29717	No
29	GOM_TRA_1PNPDE20071106_033005_000000352063_00104_29717_5999.N1	06-NOV-2007 03:30:05	Bright	34.500	110	37Del Cas	2.6780	8900.0	69	29717	No
30	GOM_TRA_1PNPDE20071106_033816_000000342063_00104_29717_6000.N1	06-NOV-2007 03:38:16	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	29717	No
31	GOM_TRA_1PNPDE20071106_034617_000000412063_00104_29717_6127.N1	06-NOV-2007 03:46:17	Bright	41.000	36	50Alp UMa	1.8000	6300.0	82	29717	No
32	GOM_TRA_1PNPDE20071106_034755_000000402063_00104_29717_6128.N1	06-NOV-2007 03:47:55	Bright	40.000	82	48Bet UMa	2.3650	10600.	80	29717	No
33	GOM_TRA_1PNPDE20071106_035142_000000402063_00104_29717_6129.N1	06-NOV-2007 03:51:42	Bright	39.500	174	52Psi UMa	3.0040	4400.0	79	29717	No
34	GOM_TRA_1PNPDE20071106_035924_000000392063_00104_29717_6130.N1	06-NOV-2007 03:59:24	Bright	38.500	96	68Del Leo	2.5600	9300.0	77	29717	No
35	GOM_TRA_1PNPDE20071106_041926_000000412063_00104_29717_6131.N1	06-NOV-2007 04:19:26	Dark	40.500	113	Mu Vel	2.6920	5000.0	81	29717	No
36	GOM_TRA_1PNPDE20071106_042609_000000442063_00105_29718_6132.N1	06-NOV-2007 04:26:09	Dark	44.000	34	Gam2Vel	1.7930	23000.	88	29718	No
37	GOM_TRA_1PNPDE20071106_043124_000000482063_00105_29718_6133.N1	06-NOV-2007 04:31:24	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	29718	No
38	GOM_TRA_1PNPDE20071106_044111_000000402063_00105_29718_6134.N1	06-NOV-2007 04:41:11	Straylight	39.500	157	The1Eri	2.9060	9300.0	79	29718	No
39	GOM_TRA_1PNPDE20071106_045934_000000382063_00105_29718_6135.N1	06-NOV-2007 04:59:34	Bright	37.500	105	6Bet Ari	2.6450	8900.0	75	29718	No
40	GOM_TRA_1PNPDE20071106_050343_000000382063_00105_29718_6136.N1	06-NOV-2007 05:03:43	Bright	37.500	53	43Bet And	2.0480	3300.0	75	29718	No
41	GOM_TRA_1PNPDE20071106_050553_000000392063_00105_29718_6137.N1	06-NOV-2007 05:05:53	Bright	39.000	73	57Gam1And	2.2600	13100.	78	29718	No
42	GOM_TRA_1PNPDE20071106_051041_000000372063_00105_29718_6138.N1	06-NOV-2007 05:10:41	Bright	36.500	110	37Del Cas	2.6780	8900.0	73	29718	No
43	GOM_TRA_1PNPDE20071106_051851_000000372063_00105_29718_6139.N1	06-NOV-2007 05:18:51	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	29718	No
44	GOM_TRA_1PNPDE20071106_052653_000000412063_00105_29718_6309.N1	06-NOV-2007 05:26:53	Bright	41.000	36	50Alp UMa	1.8000	6300.0	82	29718	No
45	GOM_TRA_1PNPDE20071106_052831_000000392063_00105_29718_6310.N1	06-NOV-2007 05:28:31	Bright	39.000	82	48Bet UMa	2.3650	10600.	78	29718	No
46	GOM_TRA_1PNPDE20071106_053218_000000392063_00105_29718_6311.N1	06-NOV-2007 05:32:18	Bright	38.500	174	52Psi UMa	3.0040	4400.0	77	29718	No
47	GOM_TRA_1PNPDE20071106_054000_000000402063_00105_29718_6312.N1	06-NOV-2007 05:40:00	Bright	40.000	96	68Del Leo	2.5600	9300.0	80	29718	No
48	GOM_TRA_1PNPDE20071106_060003_000000402063_00105_29718_6313.N1	06-NOV-2007 06:00:03	Dark	40.000	113	Mu Vel	2.6920	5000.0	80	29718	No
49	GOM_TRA_1PNPDE20071106_060646_000000452063_00106_29719_6314.N1	06-NOV-2007 06:06:46	Dark	44.500	34	Gam2Vel	1.7930	23000.	89	29719	No
50	GOM_TRA_1PNPDE20071106_061201_000000502063_00106_29719_6315.N1	06-NOV-2007 06:12:01	Dark	49.500	2	Alp Car	-0.73600	7000.0	99	29719	No
51	GOM_TRA_1PNPDE20071106_062147_000000392063_00106_29719_6316.N1	06-NOV-2007 06:21:47	Straylight	39.000	157	The1Eri	2.9060	9300.0	78	29719	No
52	GOM_TRA_1PNPDE20071106_064010_000000382063_00106_29719_6317.N1	06-NOV-2007 06:40:10	Bright	37.500	105	6Bet Ari	2.6450	8900.0	75	29719	No
53	GOM_TRA_1PNPDE20071106_064419_000000372063_00106_29719_6318.N1	06-NOV-2007 06:44:19	Bright	36.500	53	43Bet And	2.0480	3300.0	73	29719	No

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



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

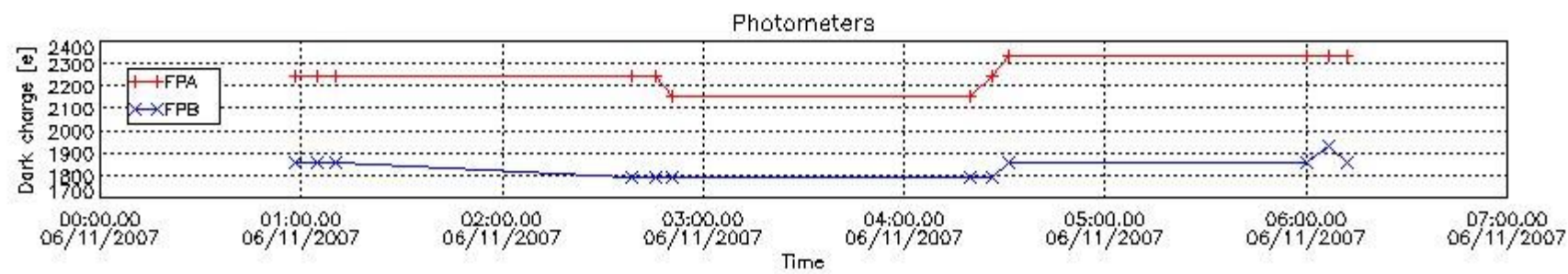
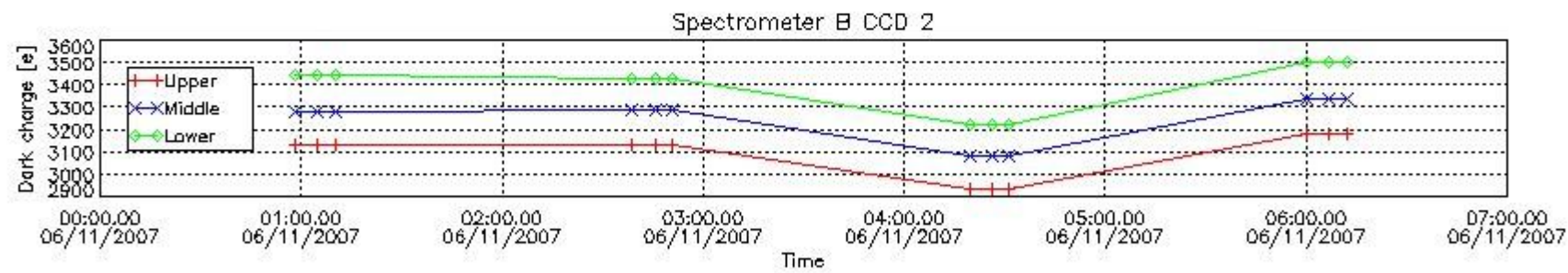
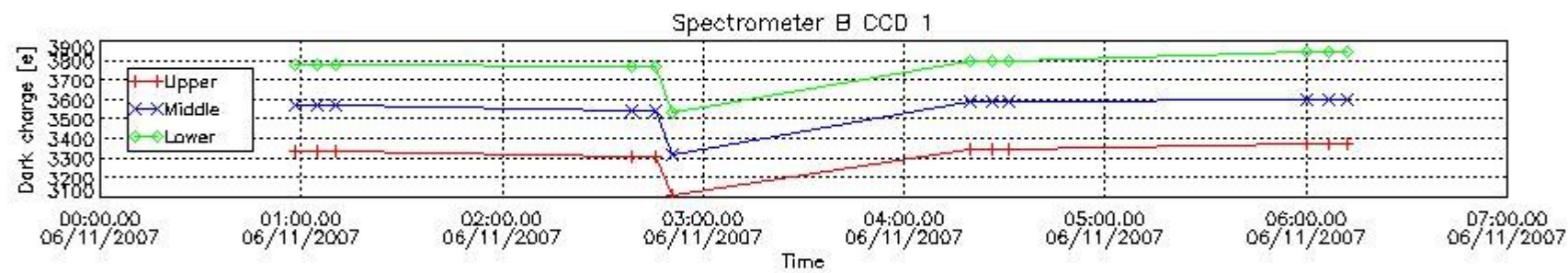
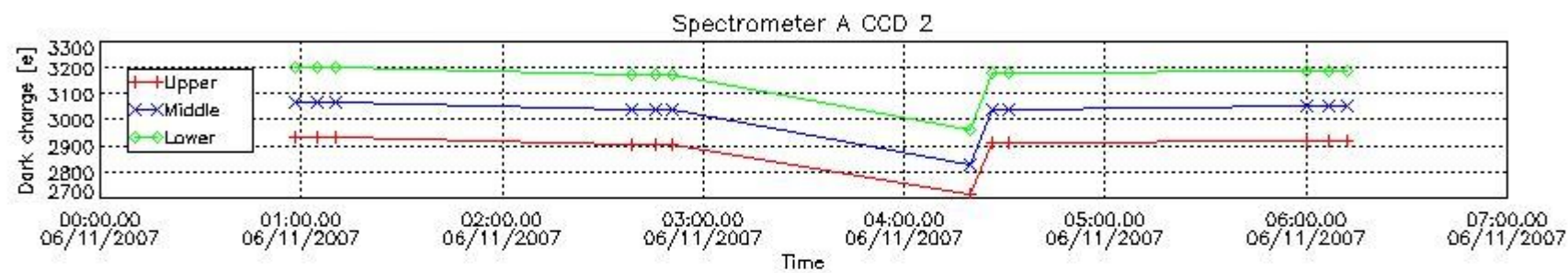
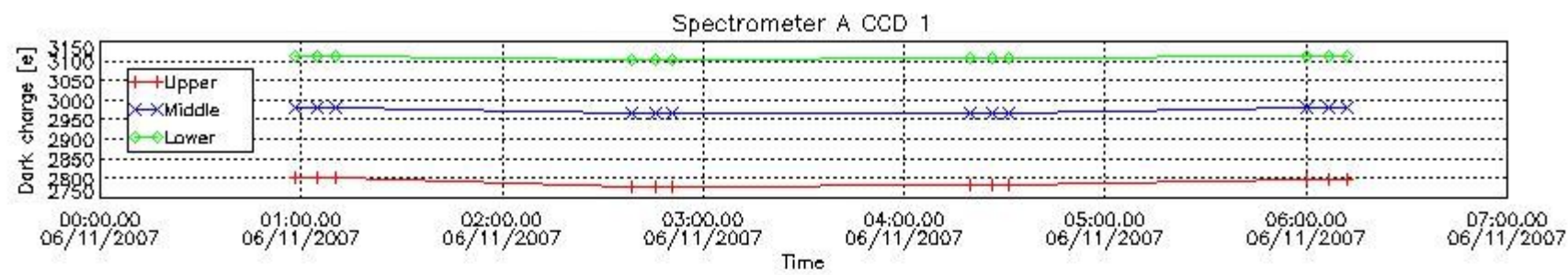
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





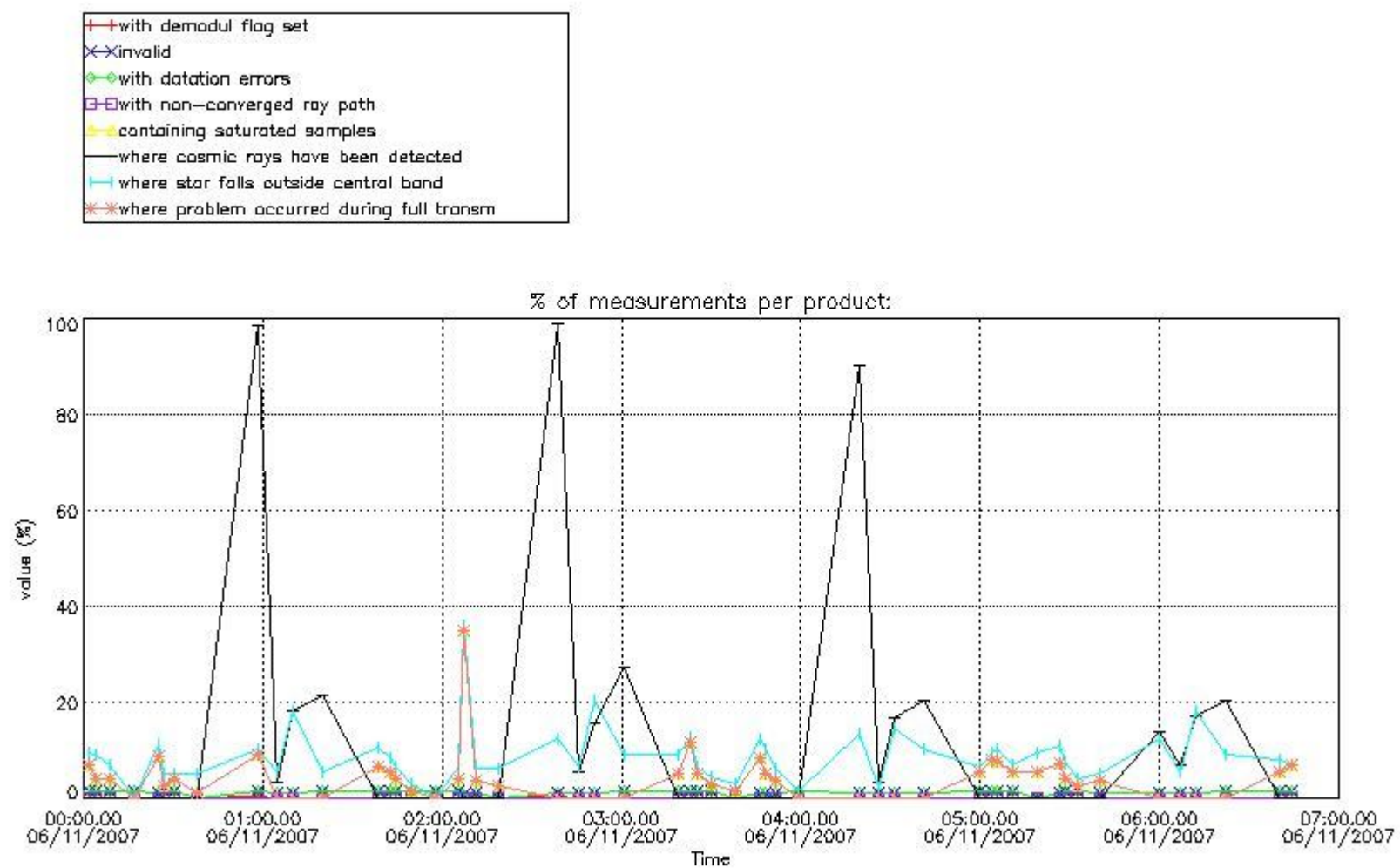
## 5. Demodulation flag and quality information monitoring

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:

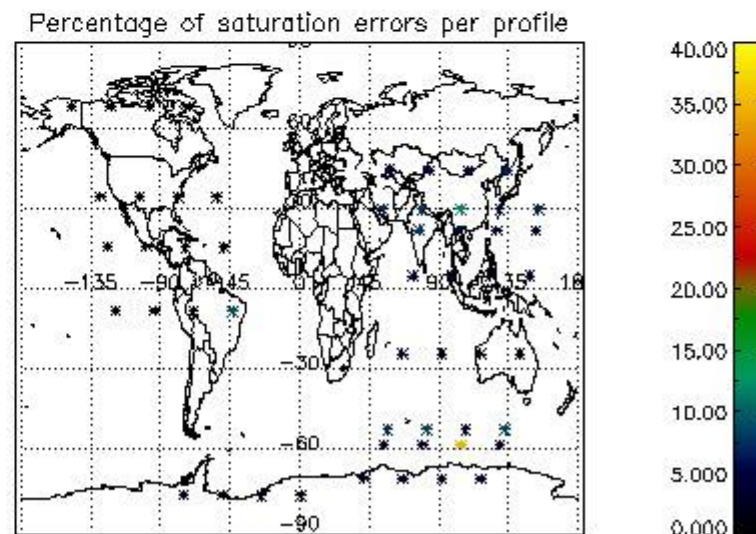
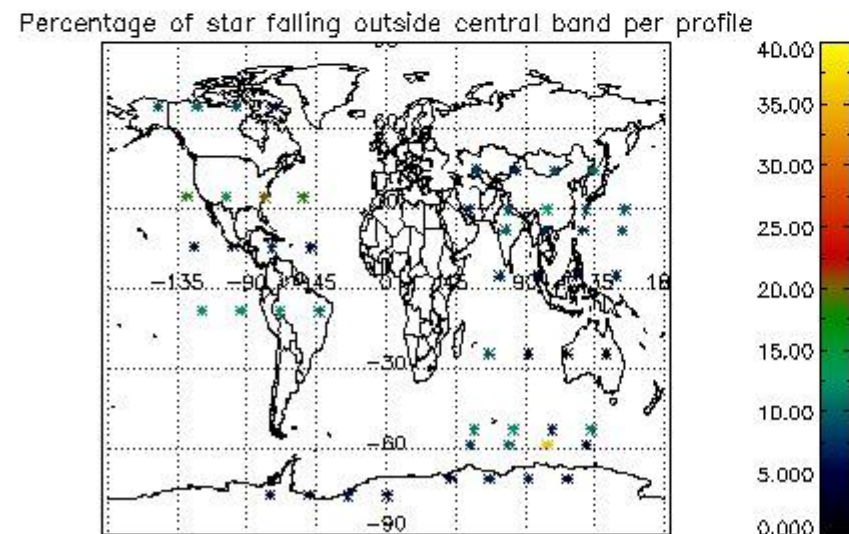
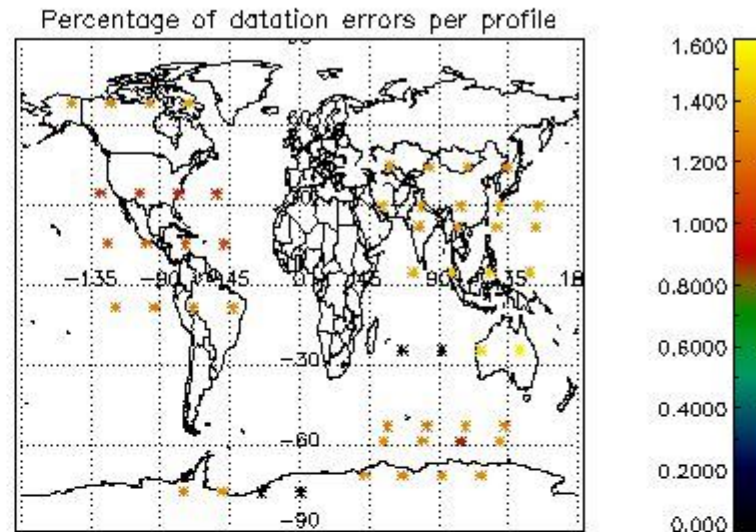
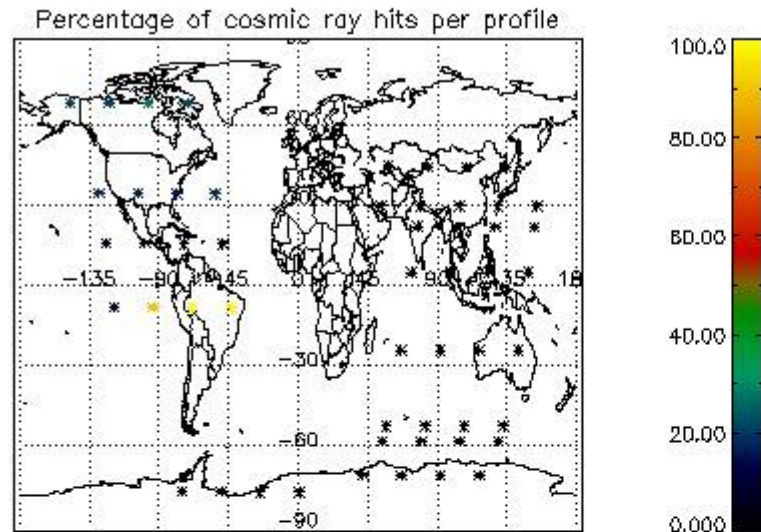
At least one measurement with demodulation flag set:	13.2075 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





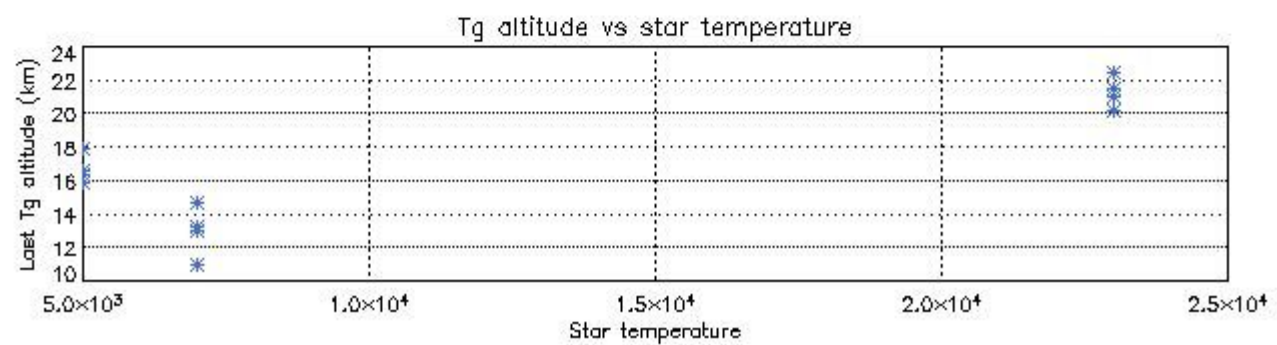
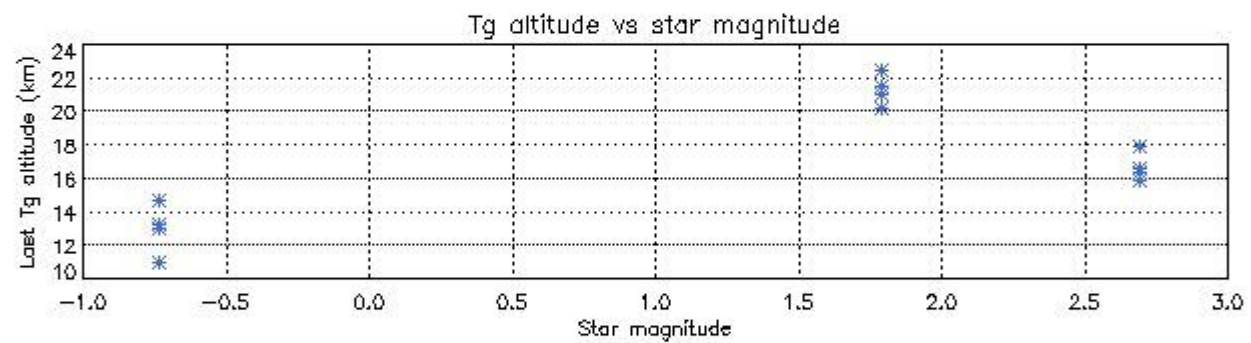
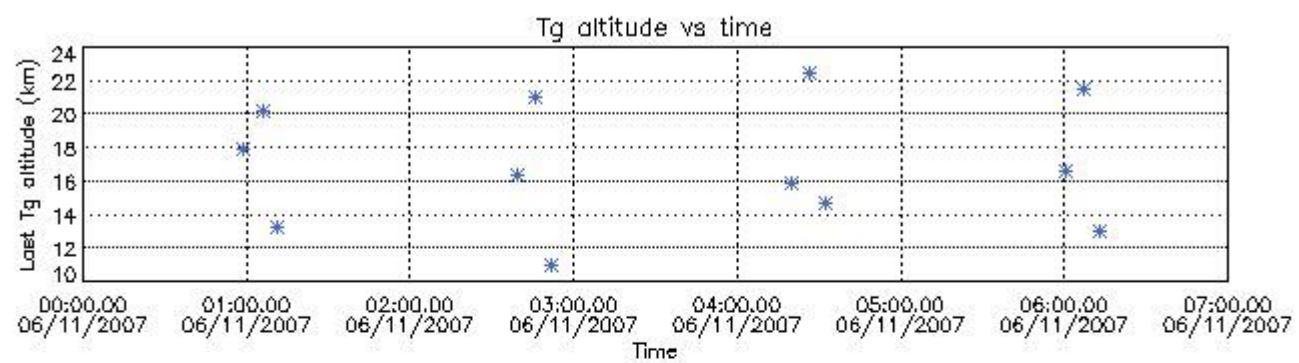
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.974	20.441	NaN
St. deviation:	3.7108	4.0331	NaN
Maximum:	22.433	29.915	NaN
Minimum:	10.898	3.7206	NaN
Number of data:	12.000	37.000	NaN

### 6.2 Plot for DARK limb products

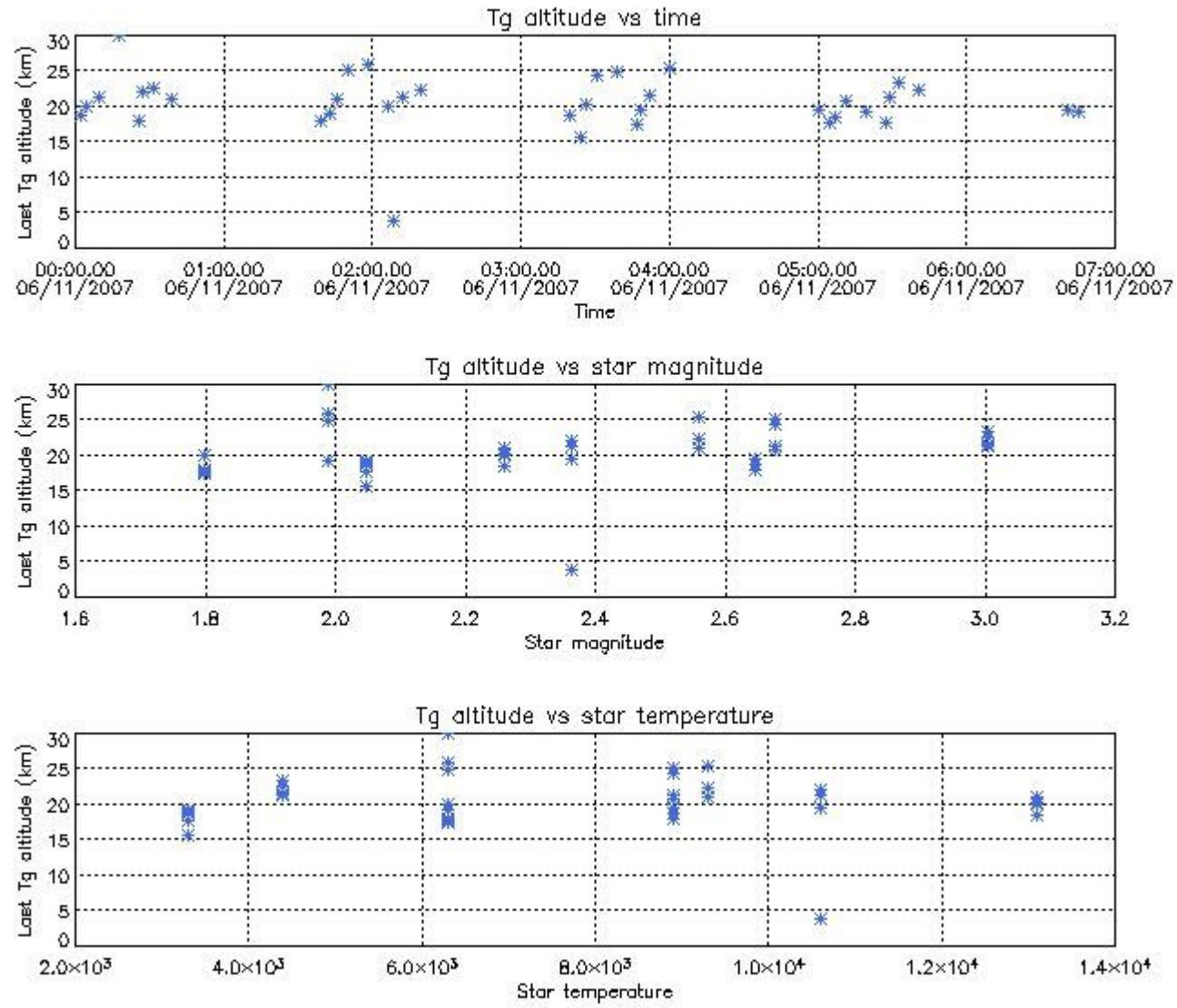
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

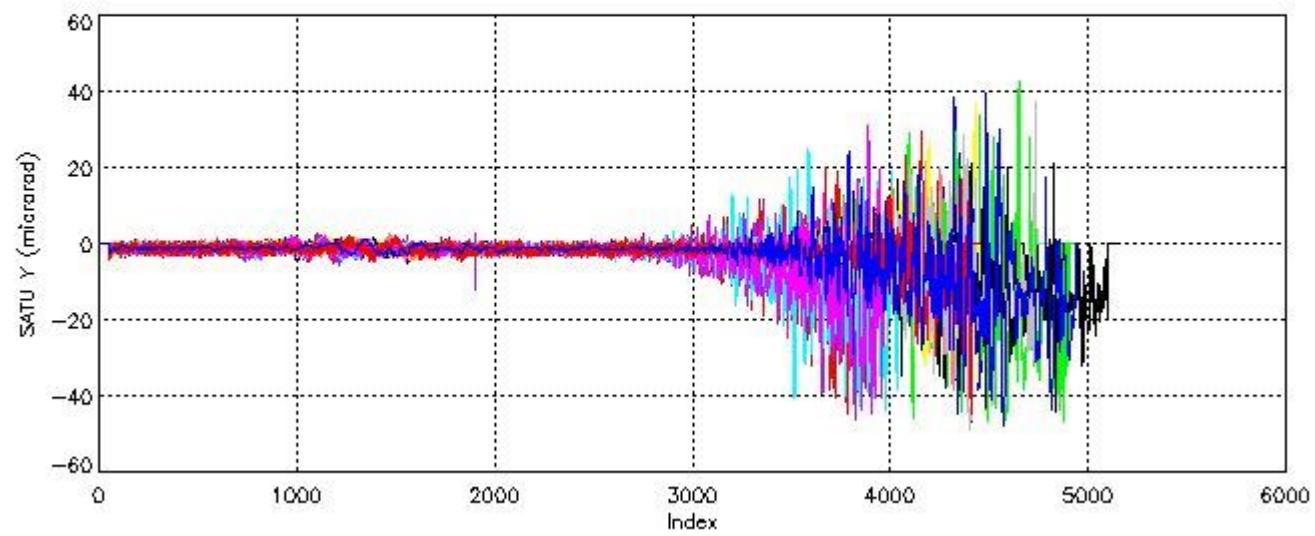
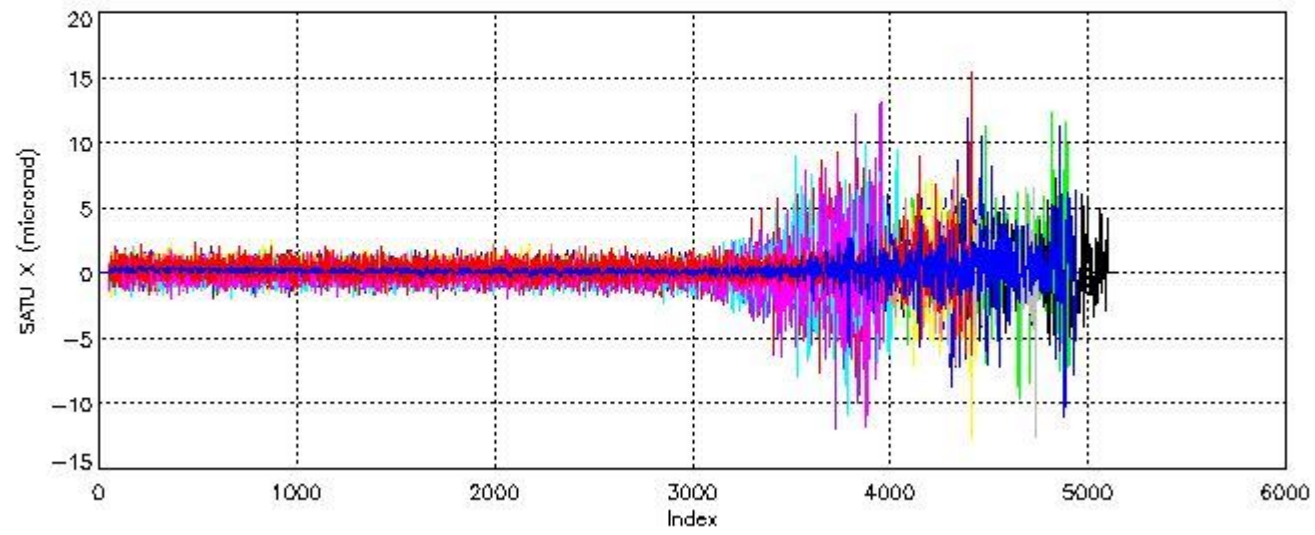


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.17337	-1.2708	0.14172	-1.3067
St. deviation:	0.40587	0.75033	0.70516	1.1771
Maximum:	2.5000	1.4000	4.5000	4.4000
Minimum:	-2.0000	-4.6000	-4.1000	-7.9000

Number of data:	12200.	12200.	31700.	31700.
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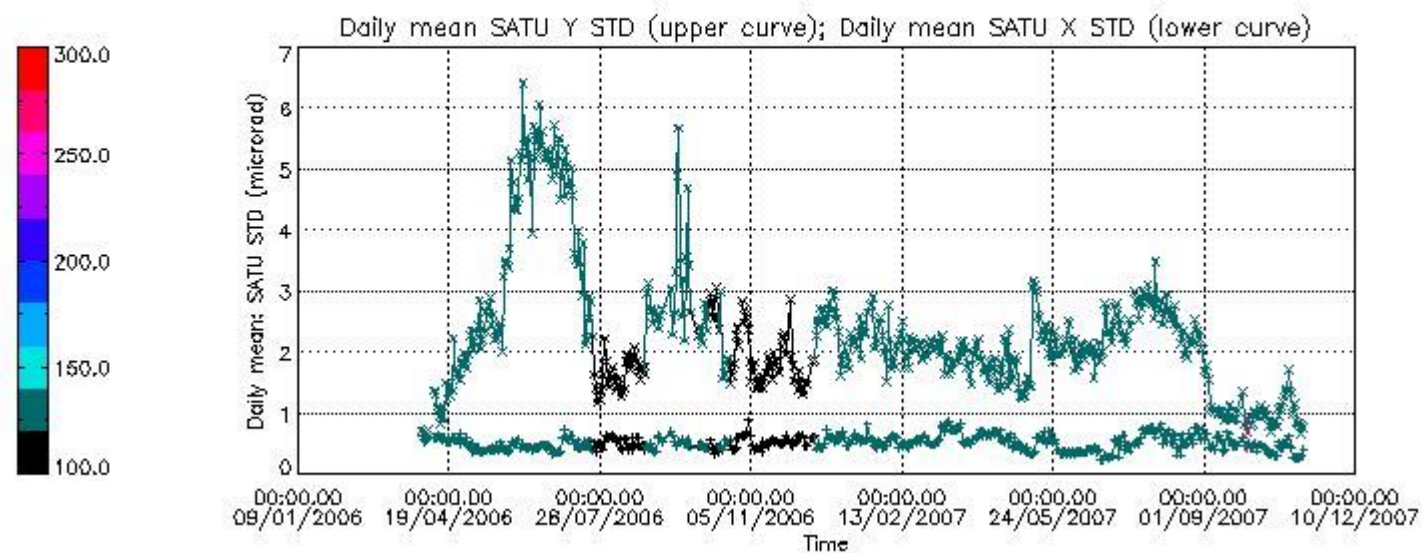
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

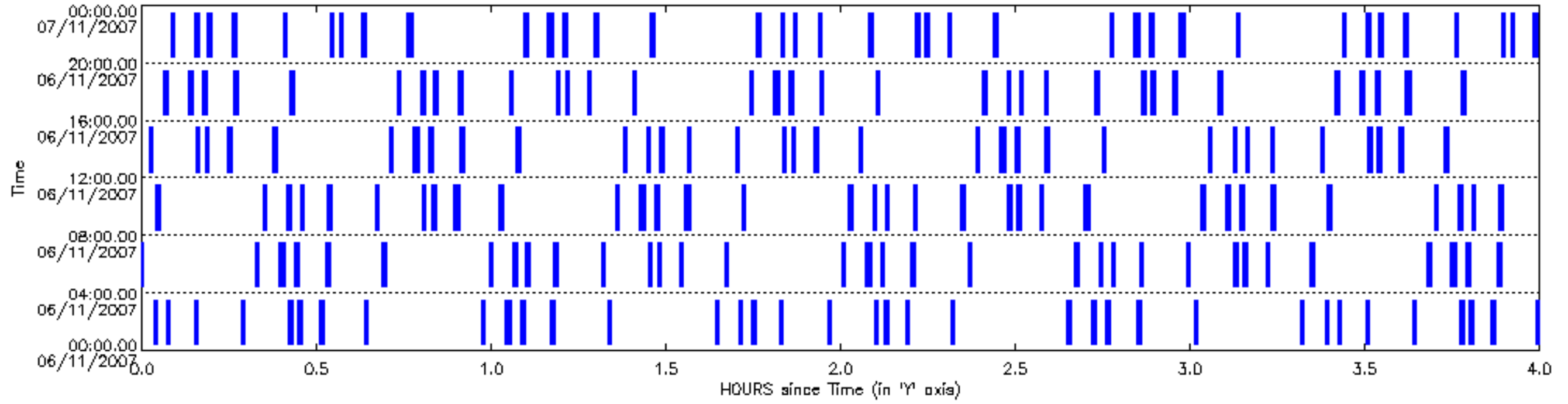


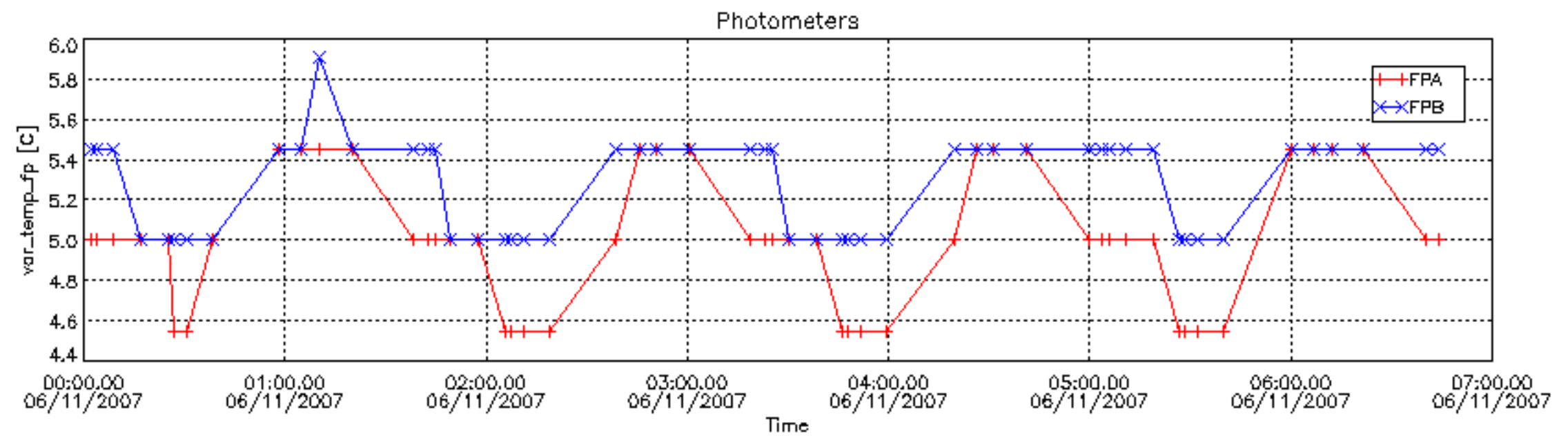
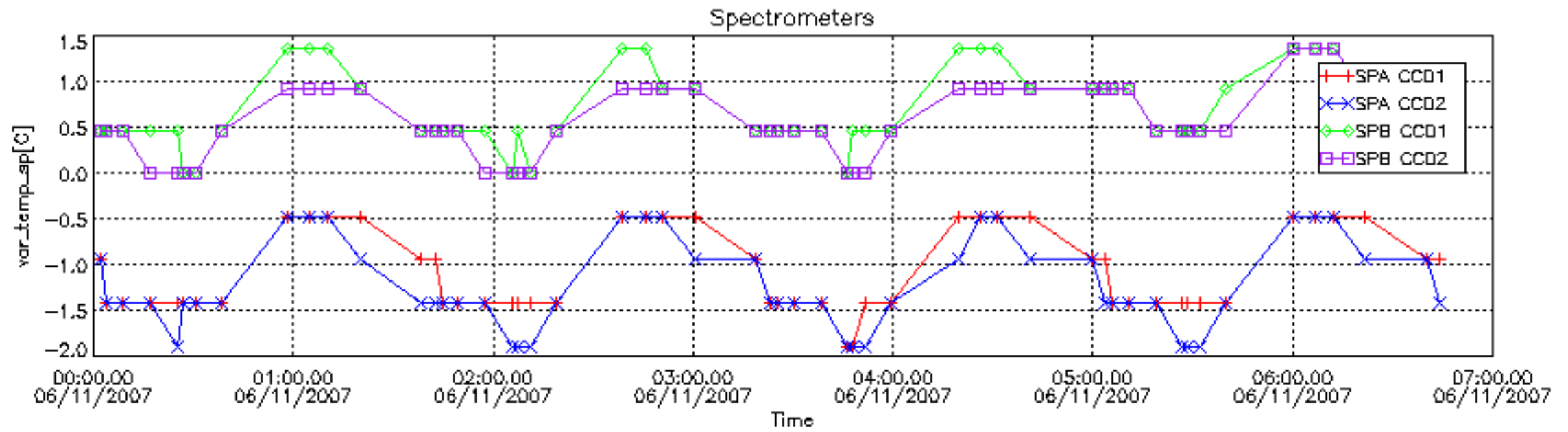
### 8. Auxiliary Data Files used for the production reported in section 2.4

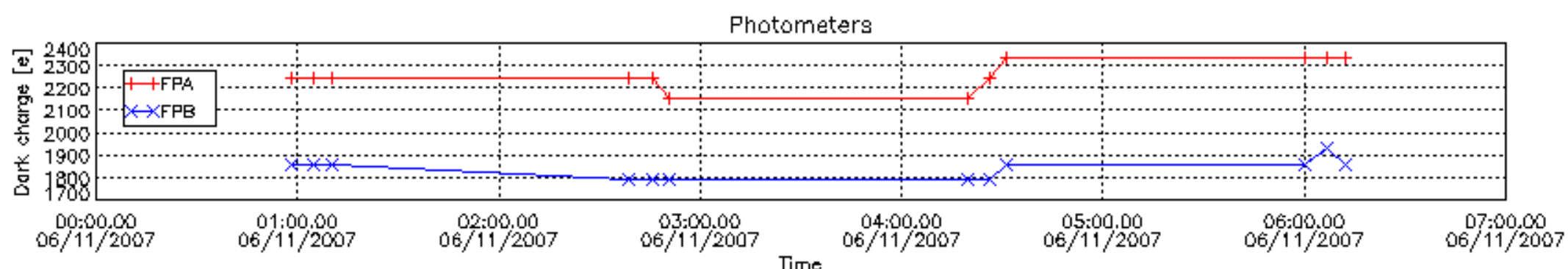
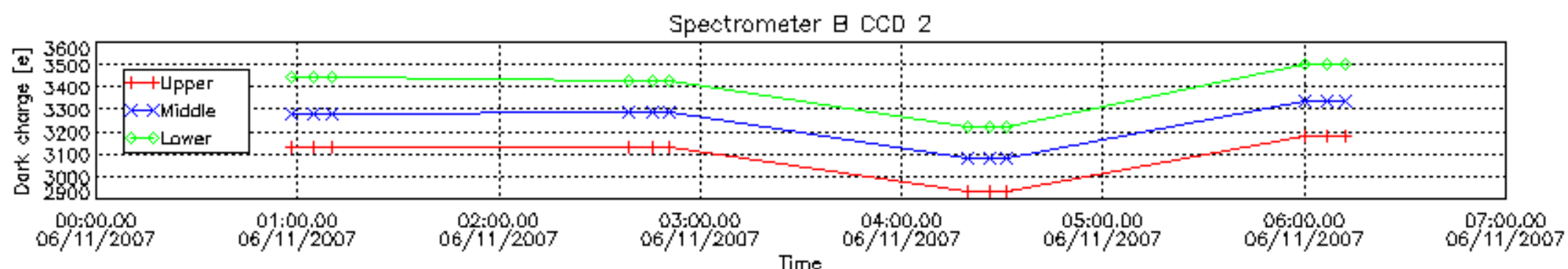
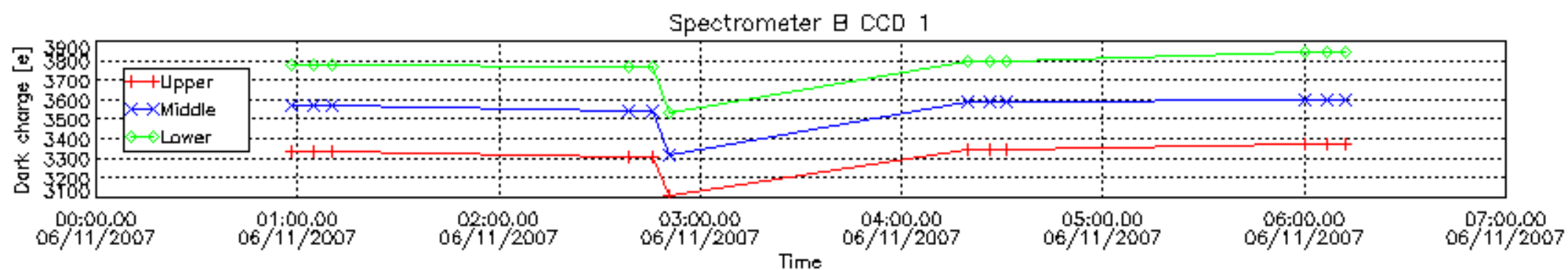
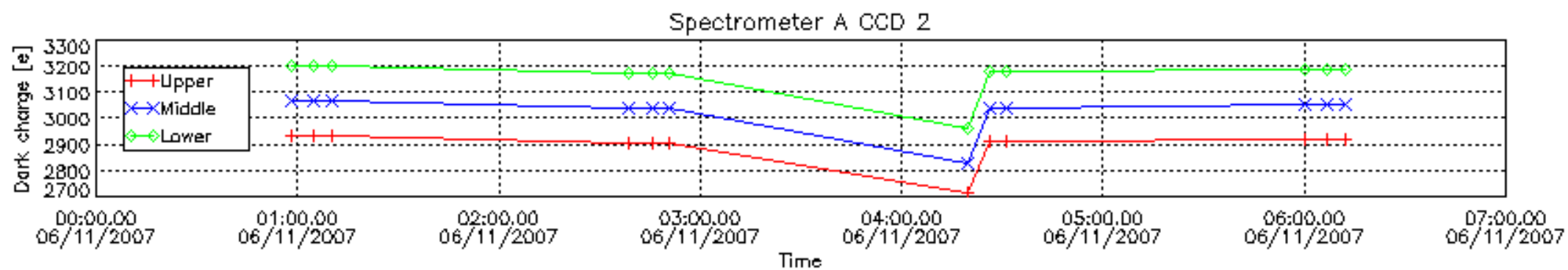
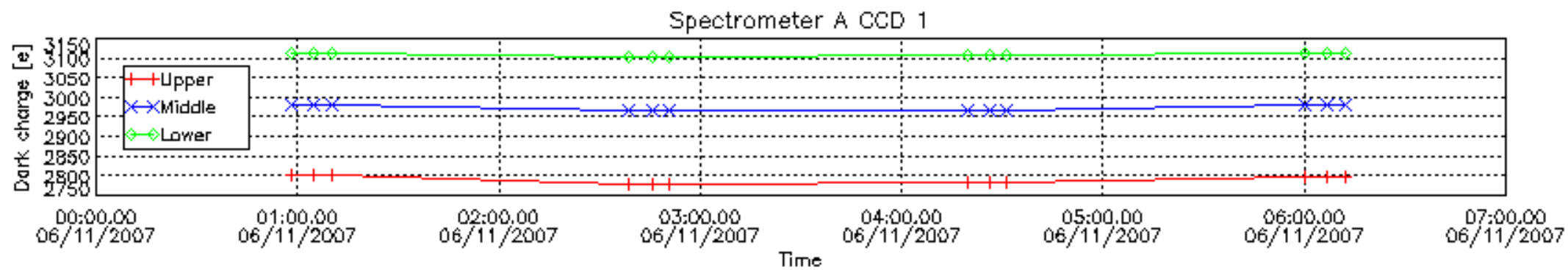
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	06-NOV-2007 00:01:55
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20071029_132344_20071028_000000_20100101_000000	1	06-NOV-2007 00:01:55
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	06-NOV-2007 00:01:55
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	06-NOV-2007 00:01:55
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	06-NOV-2007 00:01:55
ECMWF_FILE	AUX_ECF_AXNECM20071105_110711_20071105_210000_20071106_090000	1	06-NOV-2007 00:01:55
ECMWF_FILE	AUX_ECF_AXNECM20071105_183120_20071106_030000_20071106_150000	31	06-NOV-2007 03:46:17
OPTIONAL_ECMWF_FILE	MISSING	1	06-NOV-2007 00:01:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071105_212112_000060572063_00100_29713_4501.N1	1	06-NOV-2007 00:01:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071105_230728_000057382063_00101_29714_4502.N1	9	06-NOV-2007 00:58:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071106_004306_000057382063_00102_29715_4503.N1	22	06-NOV-2007 02:38:50
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071106_022403_000041442063_00103_29716_4504.N1	31	06-NOV-2007 03:46:17
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20071106_033826_000057382063_00104_29717_4505.N1	44	06-NOV-2007 05:26:53





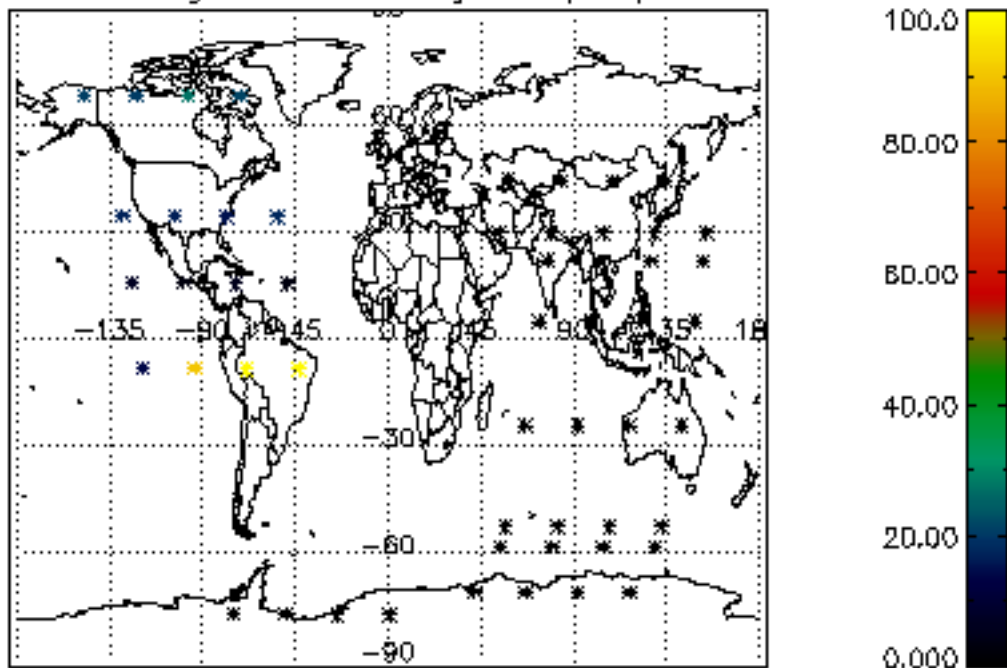




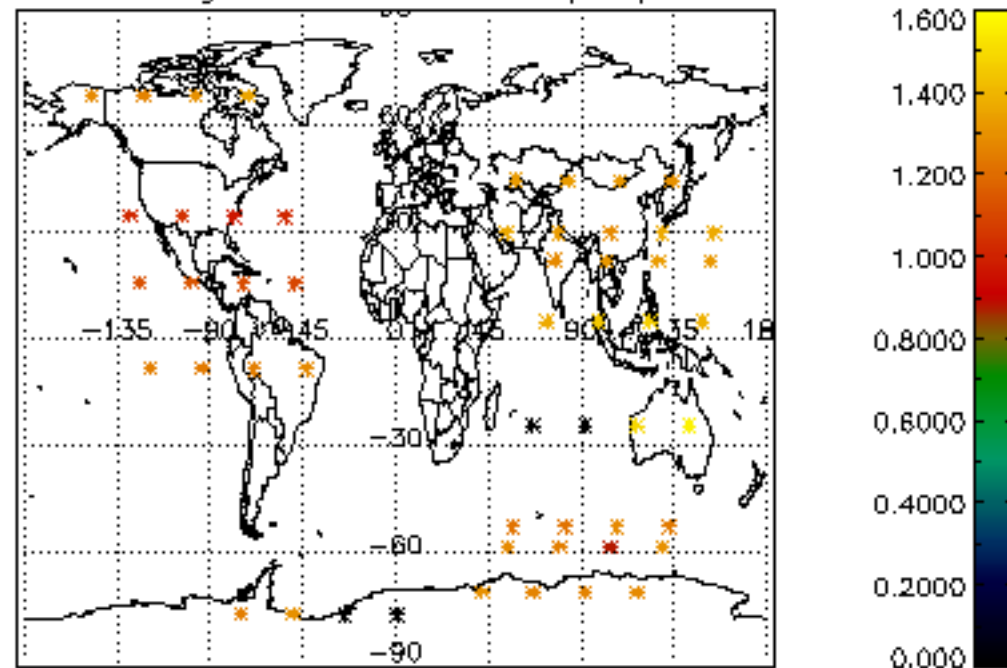




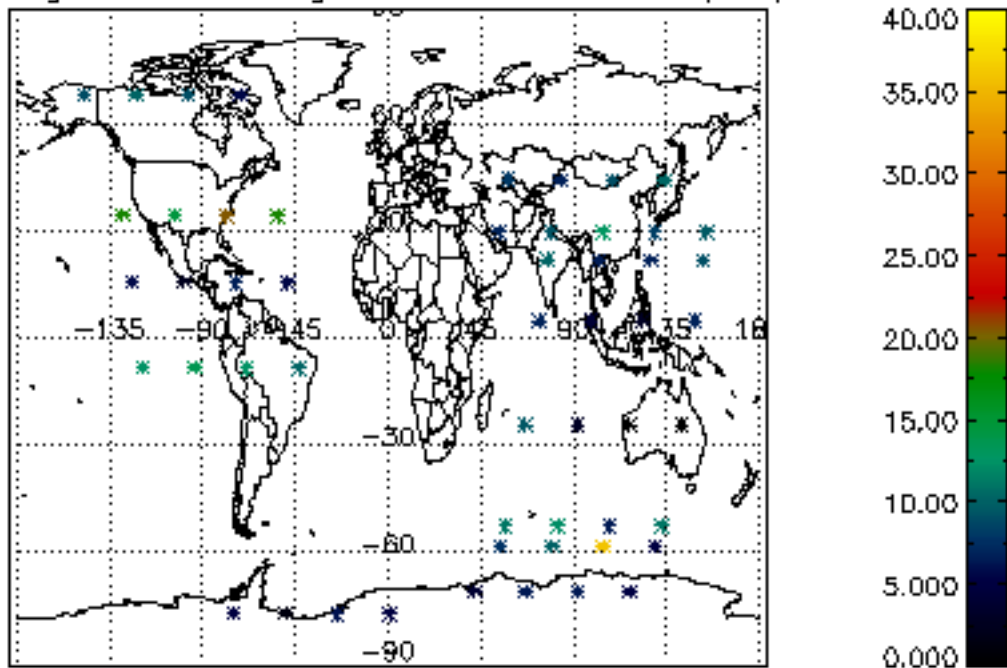
Percentage of cosmic ray hits per profile



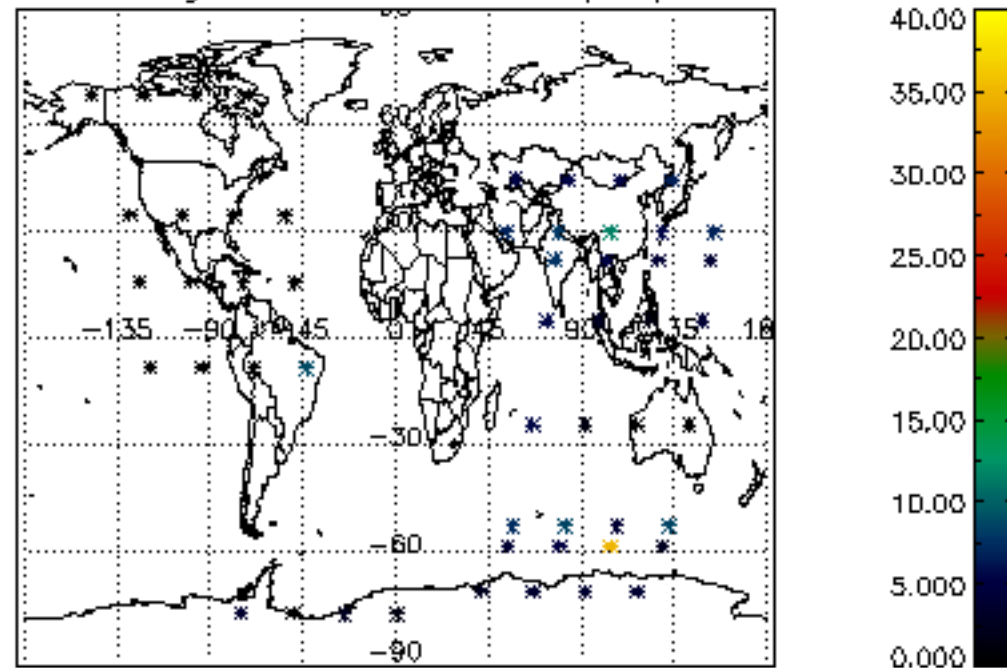
Percentage of datation errors per profile



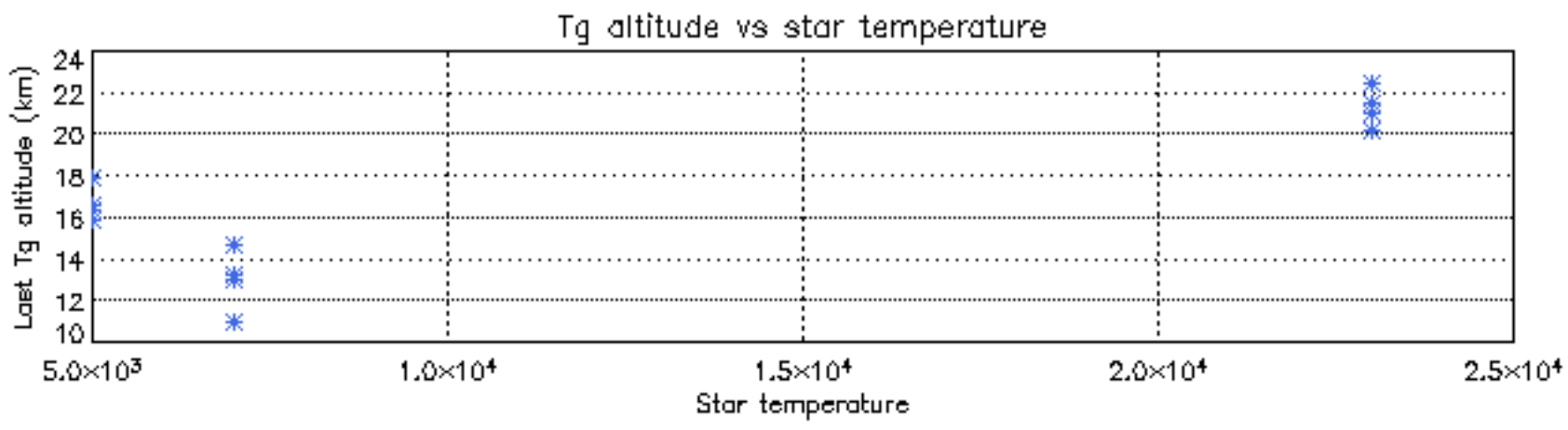
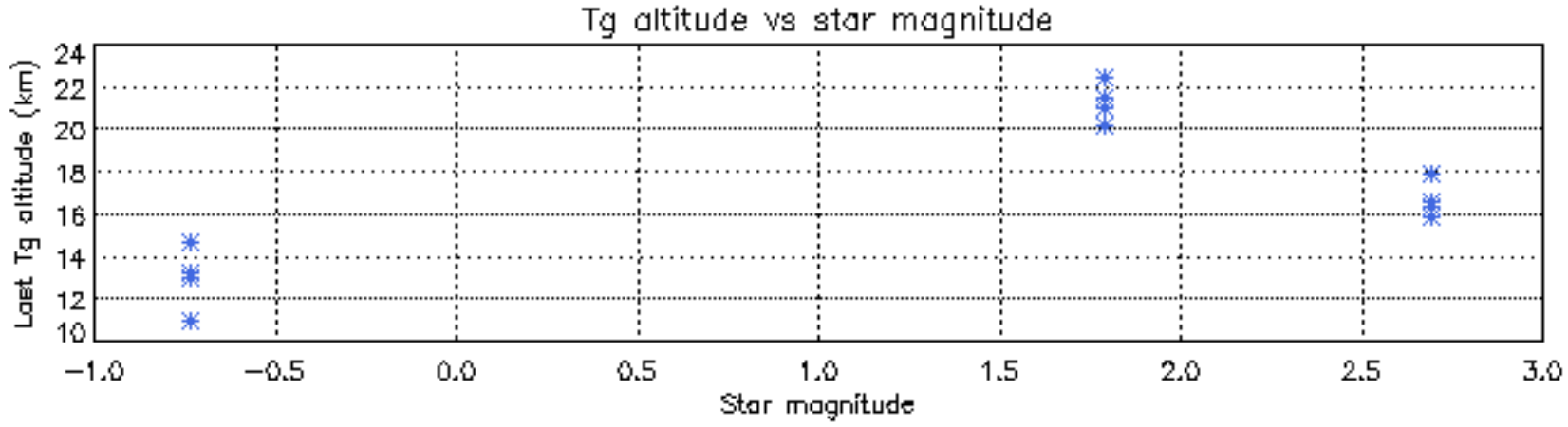
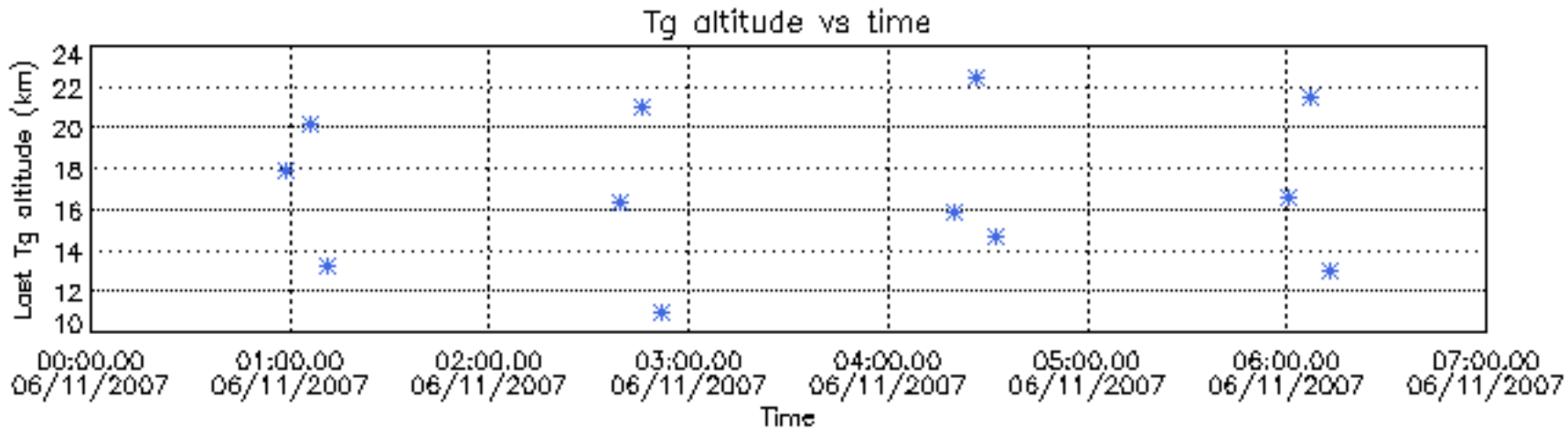
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

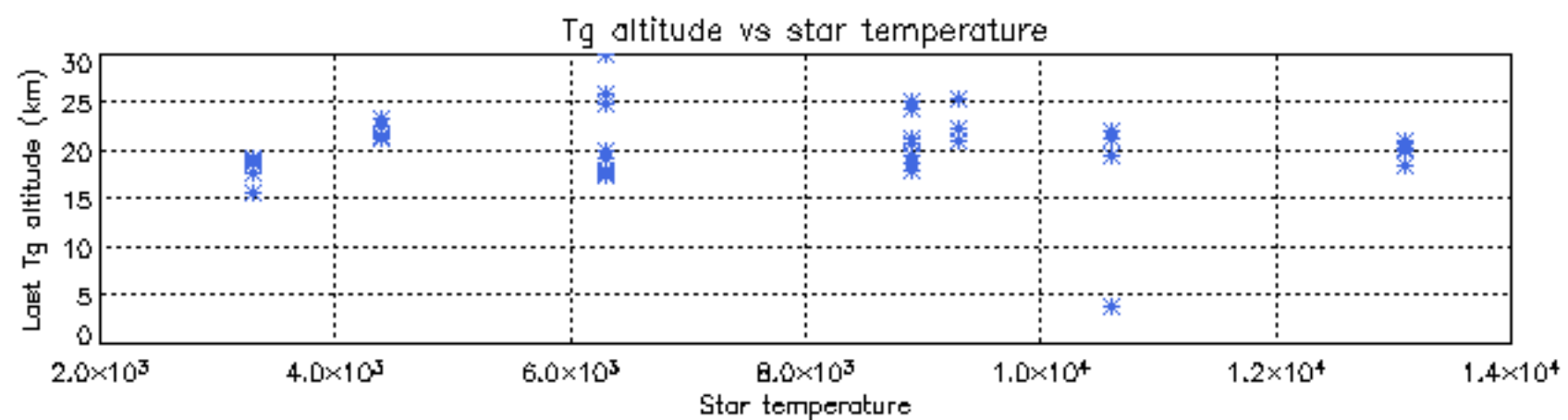
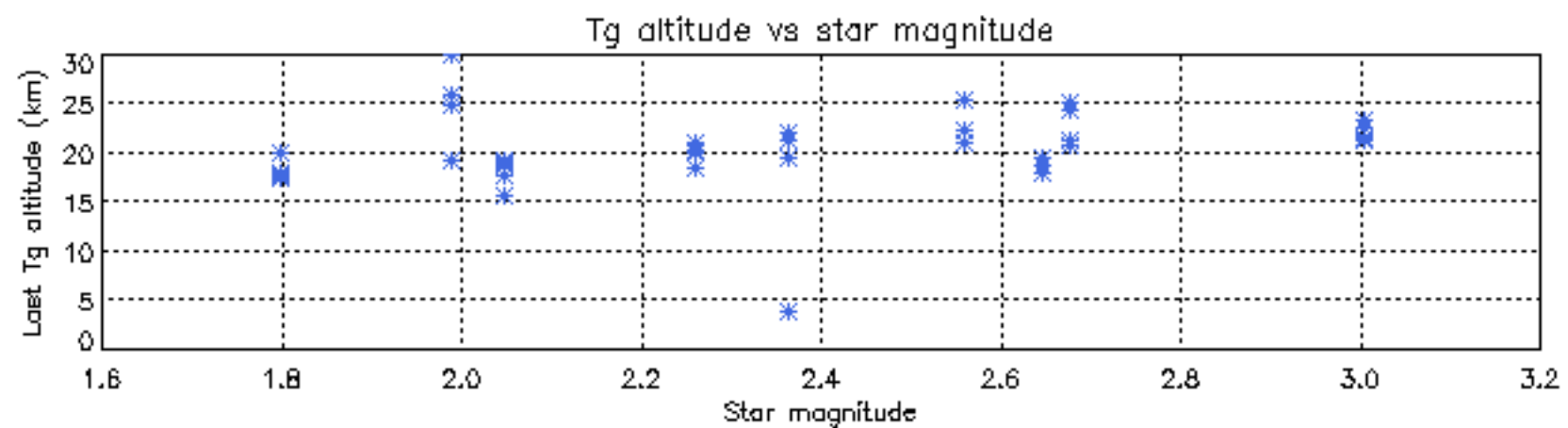
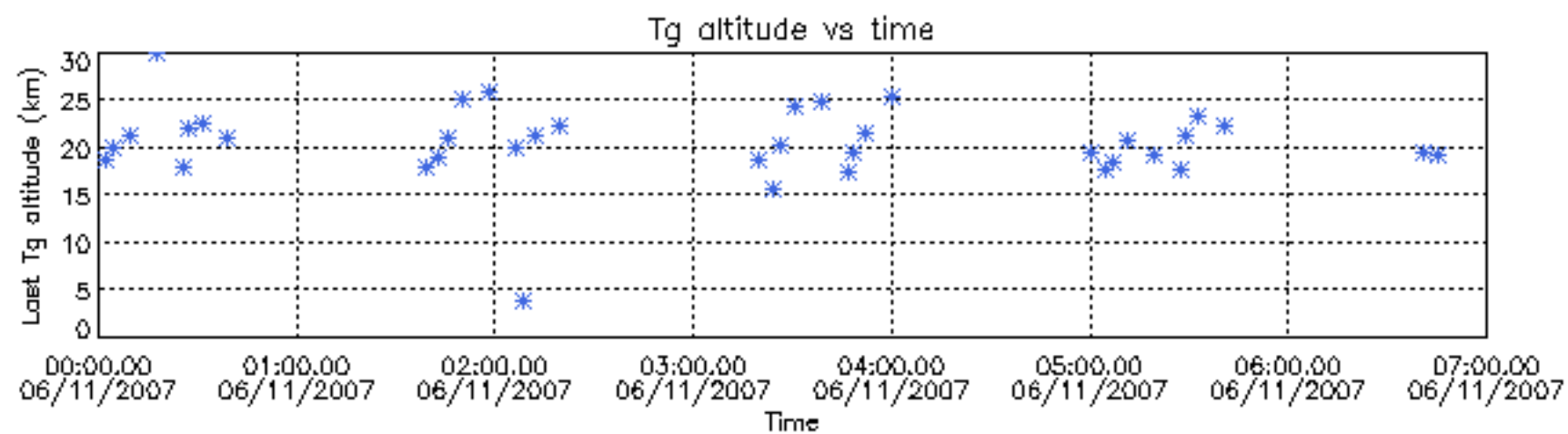


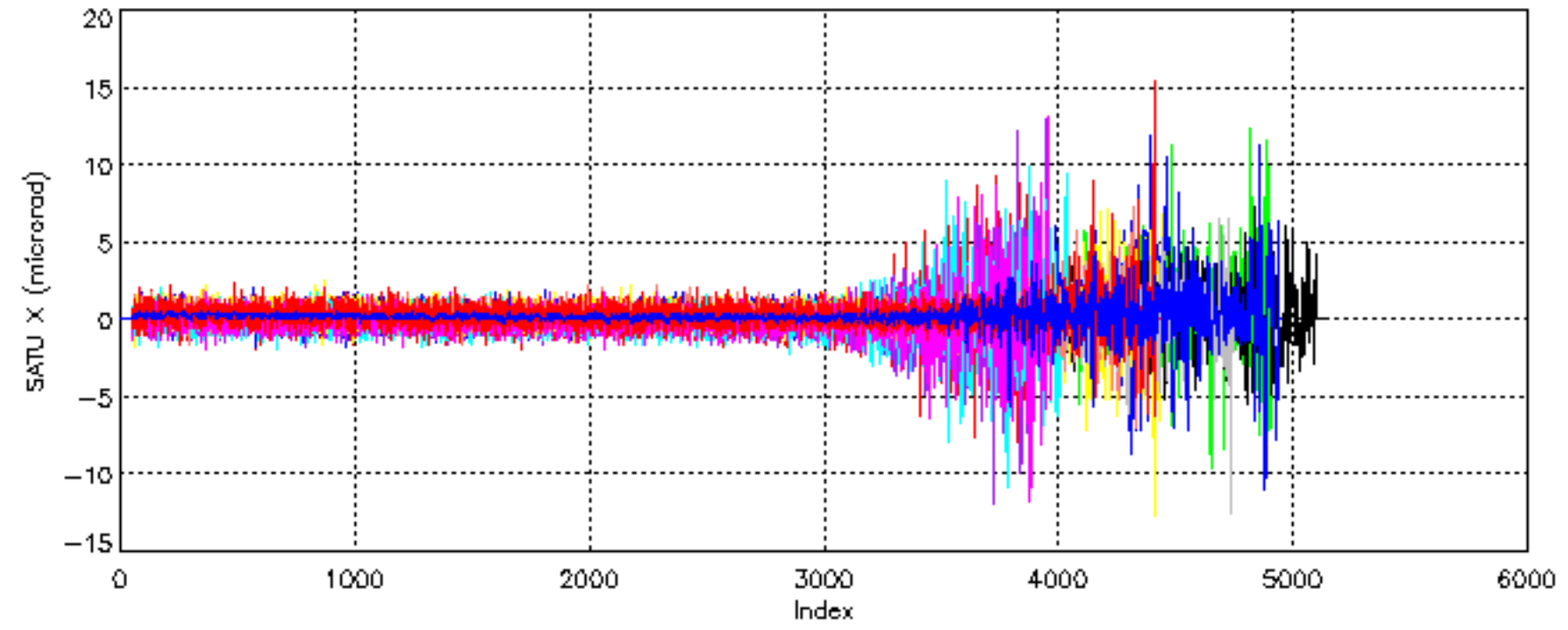
Tangent altitude at which the star is lost

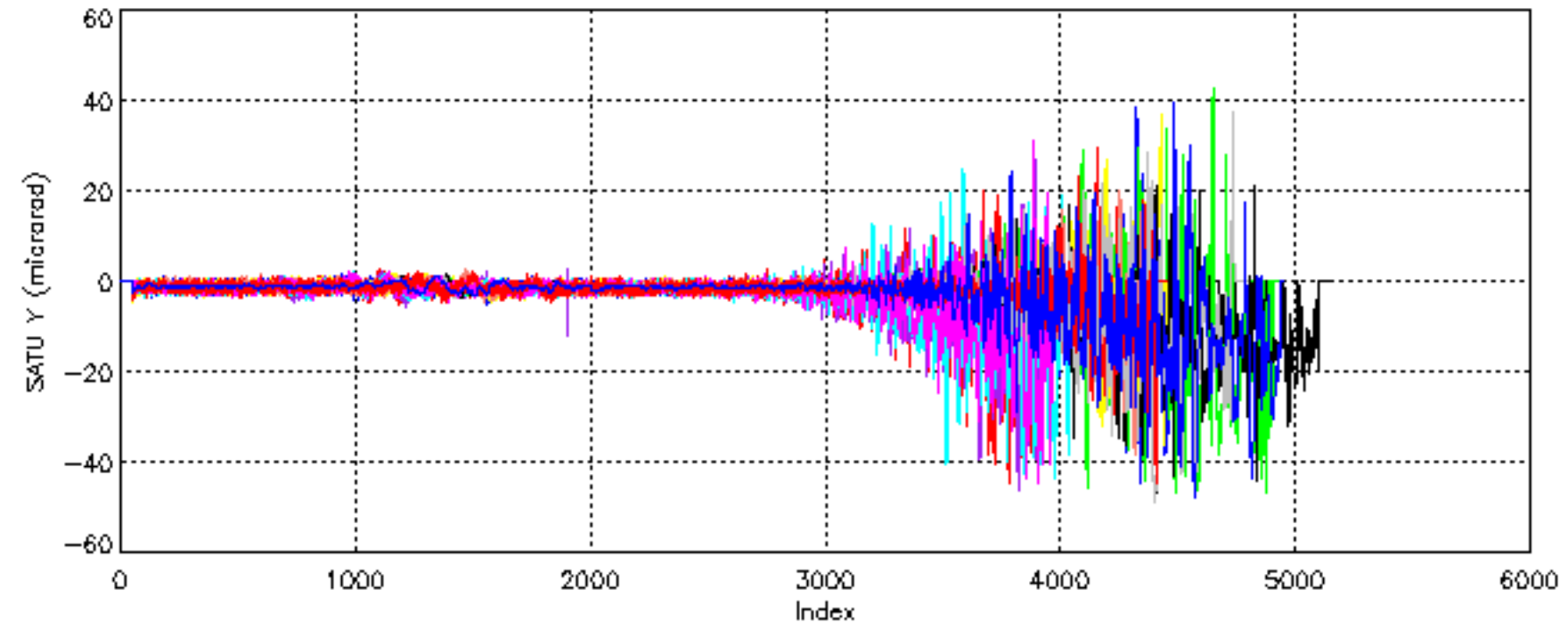




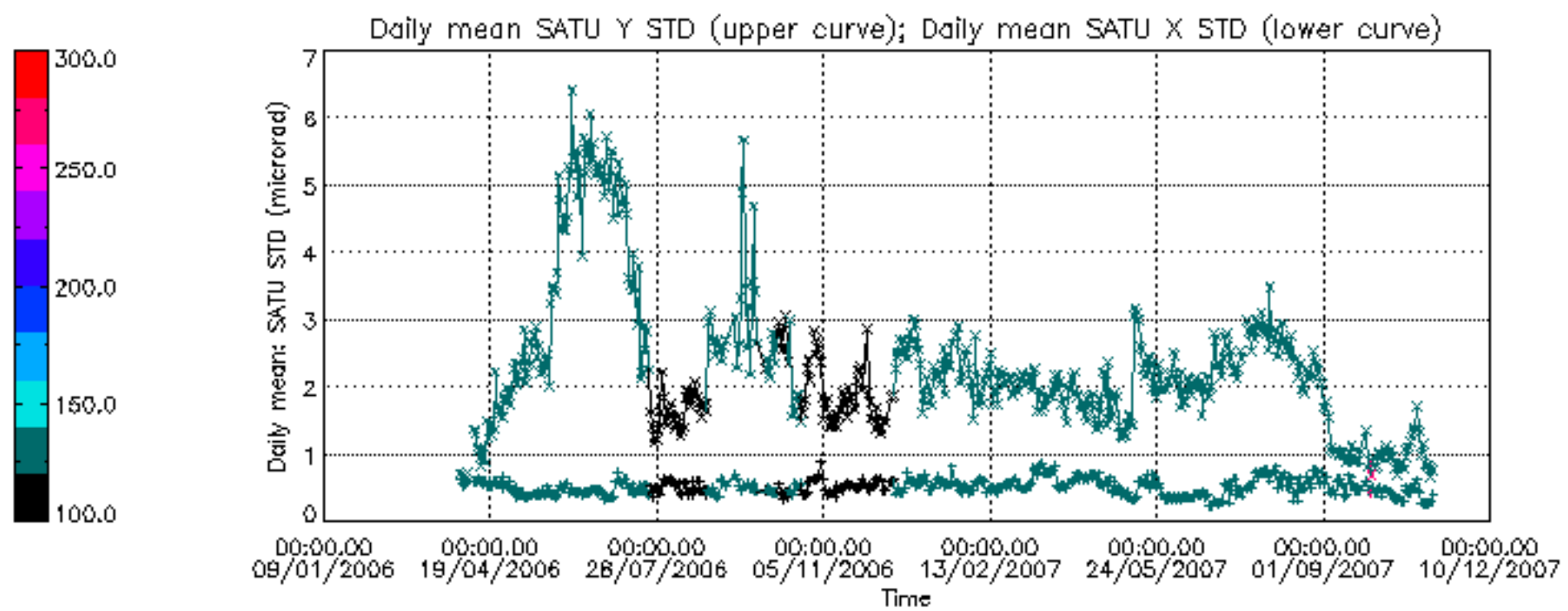
Tangent altitude at which the star is lost











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 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  
 16; 4671.4; 01-NOV-2007 01:35:21; Bright; 39.0; 96; 68Del Leo ; 2.56; 9300;occ; 78; 0;29644

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 3; 213.0; 01-NOV-2007 02:01:39; Dark ; 42.0; 41; Eps Car ; 1.86; 4100;occ; 84; 0;29645  
 4; 342.2; 01-NOV-2007 02:03:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29645  
 5; 519.9; 01-NOV-2007 02:06:46; Dark ; 53.0; 2; Alp Car ;-0.74; 7000;occ; 106; 0;29645  
 6; 1139.3; 01-NOV-2007 02:17:05; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;29645  
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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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 11; 2938.9; 01-NOV-2007 02:47:05; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;29645  
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 3;-1806.6; 01-NOV-2007 03:08:35; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 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  
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 8; 343.1; 01-NOV-2007 03:44:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29646  
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 11; 2274.3; 01-NOV-2007 04:16:36; Bright; 38.5; 105; 6Bet Ari ; 2.64; 8900;occ; 77; 0;29646  
 12; 2514.8; 01-NOV-2007 04:20:36; Bright; 36.5; 53; 43Bet And ; 2.05; 3300;occ; 73; 0;29646  
 13; 2662.4; 01-NOV-2007 04:23:04; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;29646  
 14; 2867.5; 01-NOV-2007 04:26:29; Bright; 36.5; 68; 18Alp Cas ; 2.22; 4500;occ; 73; 0;29646  
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 4;-1364.1; 01-NOV-2007 04:56:34; Bright; 42.0; 96; 68Del Leo ; 2.56; 9300;occ; 84; 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  
 7; 214.2; 01-NOV-2007 05:22:52; Dark ; 50.5; 41; Eps Car ; 1.86; 4100;occ; 101; 0;29647  
 8; 344.1; 01-NOV-2007 05:25:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29647  
 9; 521.5; 01-NOV-2007 05:27:59; Dark ; 63.0; 2; Alp Car ;-0.74; 7000;occ; 126; 0;29647  
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 15; 2939.1; 01-NOV-2007 06:08:17; Bright; 35.5; 76; 27Gam Cas ; 2.30; 30000;occ; 71; 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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5; 2867.7; 01-NOV-2007 21:12:29; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29656
6; 2938.7; 01-NOV-2007 21:13:40; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;29656
7; 3423.7; 01-NOV-2007 21:21:45; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;29656
8; 3911.5; 01-NOV-2007 21:29:53; Bright; 39.5; 36; 50Alp UMA ; 1.80; 6300;occ; 79; 0;29656
9; 4008.4; 01-NOV-2007 21:31:29; Bright; 56.0; 82; 48Bet UMA ; 2.37; 10600;occ; 112; 0;29656
10; 4229.7; 01-NOV-2007 21:35:11; Bright; 57.0; 174; 52Psi UMA ; 3.00; 4400;occ; 114; 0;29656
11; 4674.8; 01-NOV-2007 21:42:36; Bright; 38.0; 96; 68Del Leo ; 2.56; 9300;occ; 76; 0;29656
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4; -1363.6; 01-NOV-2007 06:37:10; Bright; 45.5; 96; 68Del Leo ; 2.56; 9300;occ; 91; 0;29647
5; -22.0; 01-NOV-2007 06:59:32; Dark ; 58.0; 65; Lam Vel ; 2.20; 4400;occ; 116; 0;29647
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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
8; 345.0; 01-NOV-2007 07:05:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;29648
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3; 2661.8; 01-NOV-2007 07:44:15; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;29648
4; 2867.6; 01-NOV-2007 07:47:41; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;29648
5; 2939.0; 01-NOV-2007 07:48:53; Bright; 36.0; 76; 27Gam Cas ; 2.30; 30000;occ; 72; 0;29648
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10; 4672.6; 01-NOV-2007 08:17:46; Bright; 53.0; 96; 68Del Leo ; 2.56; 9300;occ; 106; 0;29648
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13; 6251.3; 01-NOV-2007 08:44:05; Dark ; 53.0; 41; Eps Car ; 1.86; 4100;occ; 106; 0;29648
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10; 4672.9; 01-NOV-2007 09:58:22; Bright; 37.5; 96; 68Del Leo ; 2.56; 9300;occ; 75; 0;29649
11; 6015.6; 01-NOV-2007 10:20:45; Dark ; 47.0; 65; Lam Vel ; 2.20; 4400;occ; 94; 0;29649
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 7; 3421.8; 28-NOV-2007 08:48:36; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;30035  
 8; 3699.5; 28-NOV-2007 08:53:14; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;30035  
 9; 4018.1; 28-NOV-2007 08:58:32; Bright; 37.0; 32; 77Eps UMa ; 1.76; 11000;occ; 74; 0;30035  
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 23; 6819.4; 28-NOV-2007 09:45:14; Dark ; 55.0; 2; Alp Car ; -0.74; 7000;occ; 110; 0;30035  
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 13; 4844.1; 28-NOV-2007 10:52:54; Bright; 38.5; 138; 47Eps Vir ; 2.83; 4700;occ; 77; 0;30036  
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 23; 6819.9; 28-NOV-2007 11:25:50; Dark ; 56.0; 2; Alp Car ; -0.74; 7000;occ; 112; 0;30036

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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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9; 4017.9; 28-NOV-2007 14:00:20; Bright; 38.0; 32; 77Eps UMa ; 1.76; 11000;occ; 76; 0;30038  
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22; 6391.4; 28-NOV-2007 14:39:53; Dark ; 40.0; 29; Bet Car ; 1.67; 10200;occ; 80; 0;30038  
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22; 4138.6; 30-NOV-2007 23:02:42; Bright; 37.0; 39; 85Eta UMa ; 1.85; 24000;occ; 74; 0;30072
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