

# GOMOS Daily Report 24-JUL-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	26JUL2007 08:41:01
Data source version	GOMOS/5.00
Start time of products	24-07-2007 (24JUL2007 00:00:00)
Stop time of products	25-07-2007 (25JUL2007 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	0

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

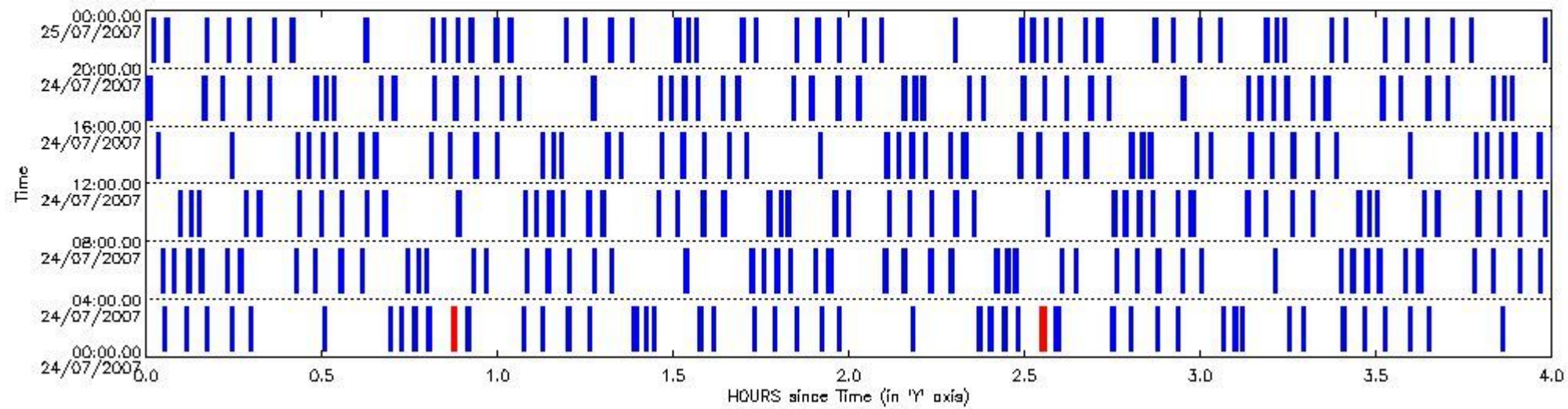
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

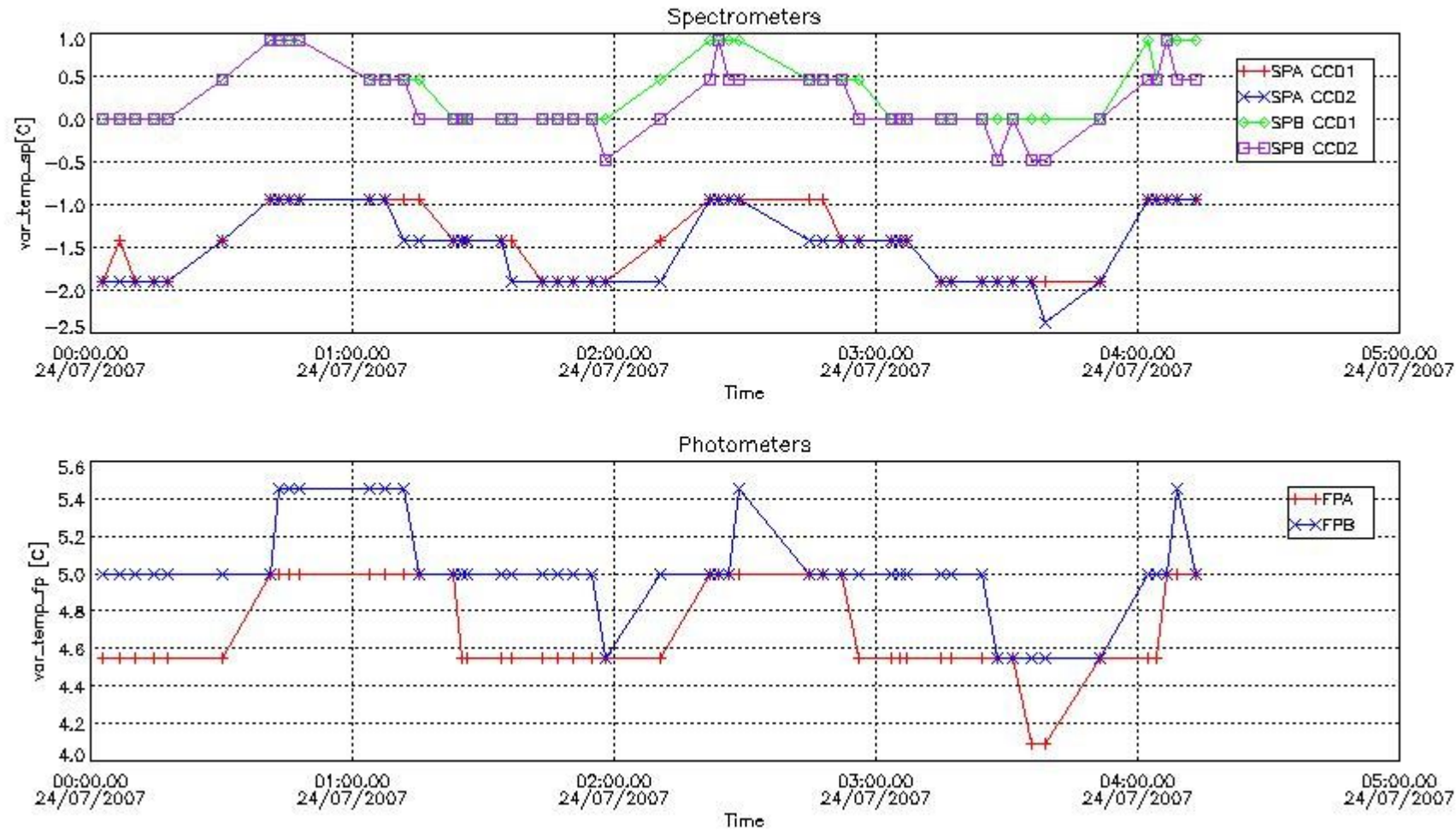
UTC start time	Star name	Star ID	Orbit
24-JUL-2007 00:52:04	AlpCol	108	28212
24-JUL-2007 02:32:40	AlpCol	108	28213

### 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_1PNPDE20070724_000255_000000342060_00102_28212_7903.N1	24-JUL-2007 00:02:55	Bright	34.000	5	3Alp Lyr	0.033000	11000.	68	28212	No
2	GOM_TRA_1PNPDE20070724_000630_000000342060_00102_28212_7904.N1	24-JUL-2007 00:06:30	Bright	33.500	69	33Gam Dra	2.2310	3800.0	67	28212	No
3	GOM_TRA_1PNPDE20070724_001007_000000362060_00102_28212_7905.N1	24-JUL-2007 00:10:07	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	28212	No
4	GOM_TRA_1PNPDE20070724_001421_000000372060_00102_28212_7906.N1	24-JUL-2007 00:14:21	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	28212	No
5	GOM_TRA_1PNPDE20070724_001728_000000322060_00102_28212_7907.N1	24-JUL-2007 00:17:28	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	28212	No
6	GOM_TRA_1PNPDE20070724_003002_000000372060_00102_28212_7908.N1	24-JUL-2007 00:30:02	Bright	37.000	6	13Alp Aur	0.080000	3400.0	74	28212	No
7	GOM_TRA_1PNPDE20070724_004120_000000382060_00102_28212_7909.N1	24-JUL-2007 00:41:20	Dark	37.500	27	24Gam Ori	1.6360	26000.	75	28212	No
8	GOM_TRA_1PNPDE20070724_004315_000000382060_00102_28212_7910.N1	24-JUL-2007 00:43:15	Dark	38.000	30	46Eps Ori	1.6940	30000.	76	28212	No
9	GOM_TRA_1PNPDE20070724_004533_000000432060_00102_28212_7911.N1	24-JUL-2007 00:45:33	Dark	42.500	7	19Bet Ori	0.10000	14000.	85	28212	No

10	GOM_TRA_1PNPDE20070724_004752_000000392060_00102_28212_7912.N1	24-JUL-2007 00:47:52	Dark	39.000	101	11Alp Lep	2.5820	7000.0	78	28212	No
11	GOM_TRA_1PNPDE20070724_010405_000000392060_00103_28213_8036.N1	24-JUL-2007 01:04:05	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	28213	No
12	GOM_TRA_1PNPDE20070724_010717_000000372060_00103_28213_8037.N1	24-JUL-2007 01:07:17	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	28213	No
13	GOM_TRA_1PNPDE20070724_011144_000000422060_00103_28213_8038.N1	24-JUL-2007 01:11:44	Straylight	41.500	148	Alp Tuc	2.8780	4100.0	83	28213	No
14	GOM_TRA_1PNPDE20070724_011518_000000412060_00103_28213_8039.N1	24-JUL-2007 01:15:18	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	28213	No
15	GOM_TRA_1PNPDE20070724_012303_000000522060_00103_28213_8040.N1	24-JUL-2007 01:23:03	Bright	52.000	38	20Eps Sgr	1.8360	11000.	104	28213	No
16	GOM_TRA_1PNPDE20070724_012458_000000392060_00103_28213_8041.N1	24-JUL-2007 01:24:58	Bright	39.000	57	34Sig Sgr	2.0660	26000.	78	28213	No
17	GOM_TRA_1PNPDE20070724_012618_000000372060_00103_28213_8042.N1	24-JUL-2007 01:26:18	Bright	36.500	155	41Pi Sgr	2.9000	6600.0	73	28213	No
18	GOM_TRA_1PNPDE20070724_013417_000000372060_00103_28213_8043.N1	24-JUL-2007 01:34:17	Bright	37.000	126	60Bet Oph	2.7700	4250.0	74	28213	No
19	GOM_TRA_1PNPDE20070724_013636_000000362060_00103_28213_8044.N1	24-JUL-2007 01:36:36	Bright	36.000	59	55Alp Oph	2.0800	8900.0	72	28213	No
20	GOM_TRA_1PNPDE20070724_014331_000000402060_00103_28213_8045.N1	24-JUL-2007 01:43:31	Bright	39.500	5	3Alp Lyr	0.033000	11000.	79	28213	No
21	GOM_TRA_1PNPDE20070724_014706_000000342060_00103_28213_8046.N1	24-JUL-2007 01:47:06	Bright	33.500	69	33Gam Dra	2.2310	3800.0	67	28213	No
22	GOM_TRA_1PNPDE20070724_015043_000000372060_00103_28213_8047.N1	24-JUL-2007 01:50:43	Bright	37.000	119	14Eta Dra	2.7270	4700.0	74	28213	No
23	GOM_TRA_1PNPDE20070724_015457_000000352060_00103_28213_8048.N1	24-JUL-2007 01:54:57	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	28213	No
24	GOM_TRA_1PNPDE20070724_015804_000000332060_00103_28213_8049.N1	24-JUL-2007 01:58:04	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	28213	No
25	GOM_TRA_1PNPDE20070724_021038_000000392060_00103_28213_8050.N1	24-JUL-2007 02:10:38	Bright	38.500	6	13Alp Aur	0.080000	3400.0	77	28213	No
26	GOM_TRA_1PNPDE20070724_022156_000000392060_00103_28213_8051.N1	24-JUL-2007 02:21:56	Dark	38.500	27	24Gam Ori	1.6360	26000.	77	28213	No
27	GOM_TRA_1PNPDE20070724_022352_000000382060_00103_28213_8179.N1	24-JUL-2007 02:23:52	Dark	38.000	30	46Eps Ori	1.6940	30000.	76	28213	No
28	GOM_TRA_1PNPDE20070724_022609_000000462060_00103_28213_8180.N1	24-JUL-2007 02:26:09	Dark	46.000	7	19Bet Ori	0.10000	14000.	92	28213	No
29	GOM_TRA_1PNPDE20070724_022828_000000412060_00103_28213_8181.N1	24-JUL-2007 02:28:28	Dark	40.500	101	11Alp Lep	2.5820	7000.0	81	28213	No
30	GOM_TRA_1PNPDE20070724_024442_000000402060_00104_28214_8182.N1	24-JUL-2007 02:44:42	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	28214	No
31	GOM_TRA_1PNPDE20070724_024753_000000362060_00104_28214_8183.N1	24-JUL-2007 02:47:53	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	28214	No
32	GOM_TRA_1PNPDE20070724_025221_000000432060_00104_28214_8184.N1	24-JUL-2007 02:52:21	Straylight	42.500	148	Alp Tuc	2.8780	4100.0	85	28214	No
33	GOM_TRA_1PNPDE20070724_025554_000000392060_00104_28214_8185.N1	24-JUL-2007 02:55:54	Straylight	38.500	45	Alp Pav	1.9400	26000.	77	28214	No
34	GOM_TRA_1PNPDE20070724_030340_000000402060_00104_28214_8186.N1	24-JUL-2007 03:03:40	Bright	39.500	38	20Eps Sgr	1.8360	11000.	79	28214	No
35	GOM_TRA_1PNPDE20070724_030534_000000402060_00104_28214_8187.N1	24-JUL-2007 03:05:34	Bright	39.500	57	34Sig Sgr	2.0660	26000.	79	28214	No
36	GOM_TRA_1PNPDE20070724_030654_000000382060_00104_28214_8188.N1	24-JUL-2007 03:06:54	Bright	37.500	155	41Pi Sgr	2.9000	6600.0	75	28214	No
37	GOM_TRA_1PNPDE20070724_031453_000000372060_00104_28214_8189.N1	24-JUL-2007 03:14:53	Bright	37.000	126	60Bet Oph	2.7700	4250.0	74	28214	No
38	GOM_TRA_1PNPDE20070724_031712_000000372060_00104_28214_8190.N1	24-JUL-2007 03:17:12	Bright	37.000	59	55Alp Oph	2.0800	8900.0	74	28214	No
39	GOM_TRA_1PNPDE20070724_032407_000000382060_00104_28214_8191.N1	24-JUL-2007 03:24:07	Bright	37.500	5	3Alp Lyr	0.033000	11000.	75	28214	No
40	GOM_TRA_1PNPDE20070724_032742_000000372060_00104_28214_8192.N1	24-JUL-2007 03:27:42	Bright	36.500	69	33Gam Dra	2.2310	3800.0	73	28214	No
41	GOM_TRA_1PNPDE20070724_033119_000000332060_00104_28214_8193.N1	24-JUL-2007 03:31:19	Bright	33.000	119	14Eta Dra	2.7270	4700.0	66	28214	No
42	GOM_TRA_1PNPDE20070724_033533_000000342060_00104_28214_8194.N1	24-JUL-2007 03:35:33	Bright	33.500	60	7Bet UMi	2.0810	3950.0	67	28214	No
43	GOM_TRA_1PNPDE20070724_033840_000000342060_00104_28214_8195.N1	24-JUL-2007 03:38:40	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	28214	No
44	GOM_TRA_1PNPDE20070724_035114_000000392060_00104_28214_8342.N1	24-JUL-2007 03:51:14	Bright	39.000	6	13Alp Aur	0.080000	3400.0	78	28214	No
45	GOM_TRA_1PNPDE20070724_040232_000000402060_00104_28214_8343.N1	24-JUL-2007 04:02:32	Dark	39.500	27	24Gam Ori	1.6360	26000.	79	28214	No
46	GOM_TRA_1PNPDE20070724_040428_000000392060_00104_28214_8344.N1	24-JUL-2007 04:04:28	Dark	39.000	30	46Eps Ori	1.6940	30000.	78	28214	No
47	GOM_TRA_1PNPDE20070724_040645_000000492060_00104_28214_8345.N1	24-JUL-2007 04:06:45	Dark	48.500	7	19Bet Ori	0.10000	14000.	97	28214	No
48	GOM_TRA_1PNPDE20070724_040904_000000402060_00104_28214_8346.N1	24-JUL-2007 04:09:04	Dark	40.000	101	11Alp Lep	2.5820	7000.0	80	28214	No
49	GOM_TRA_1PNPDE20070724_041325_000000382060_00104_28214_8347.N1	24-JUL-2007 04:13:25	Dark	37.500	108	Alp Col	2.6520	15200.	75	28214	No

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



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

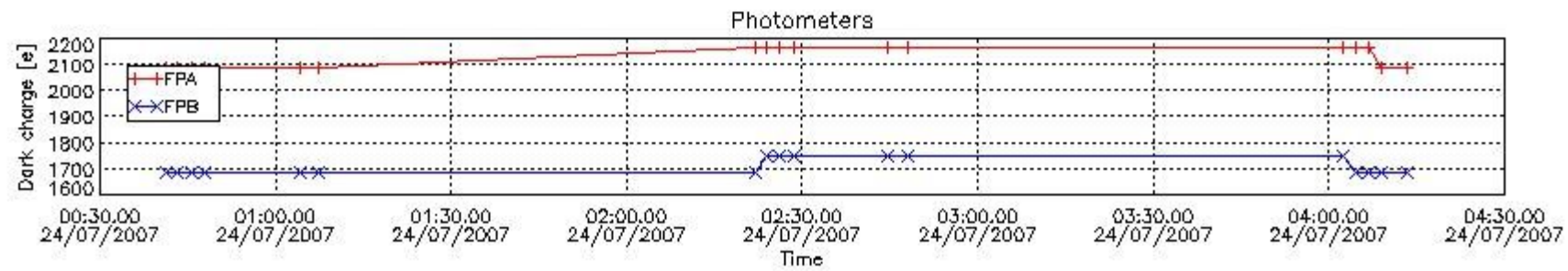
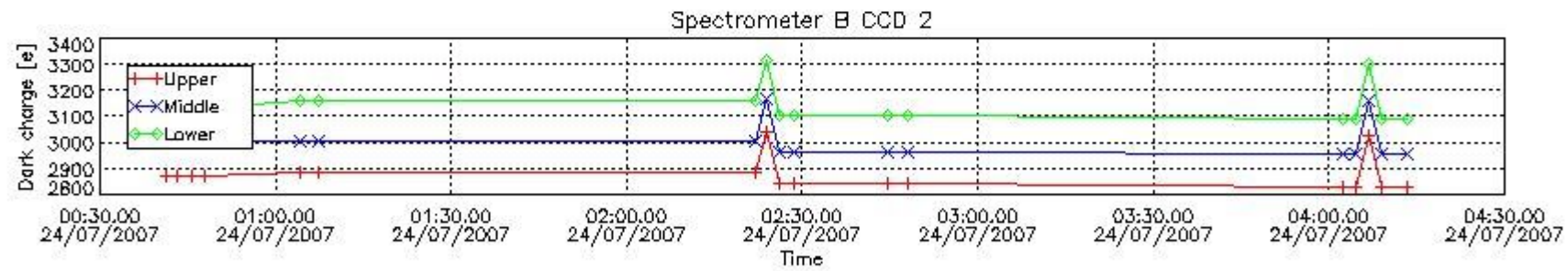
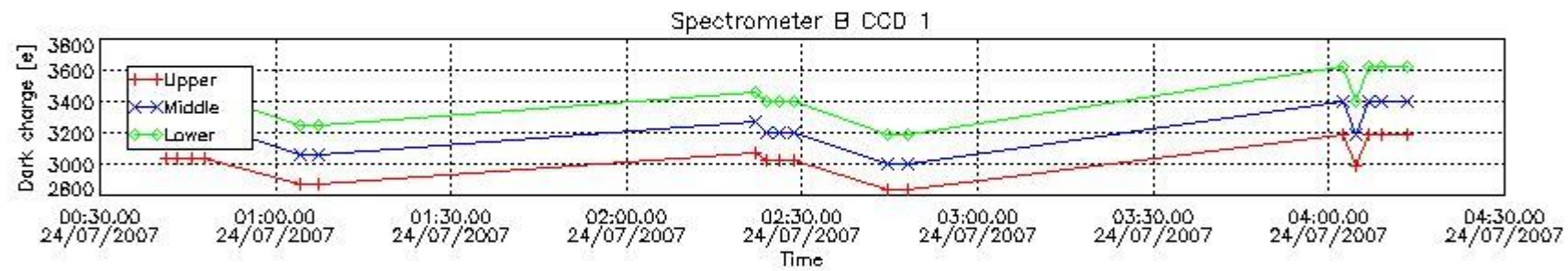
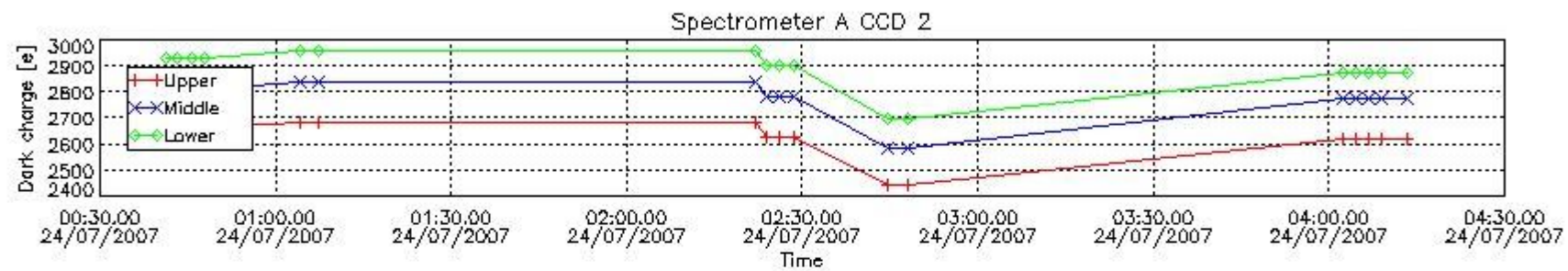
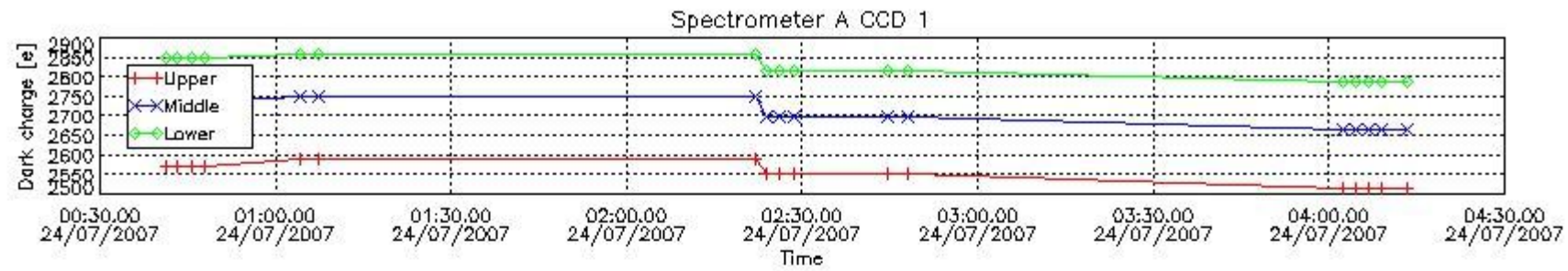
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





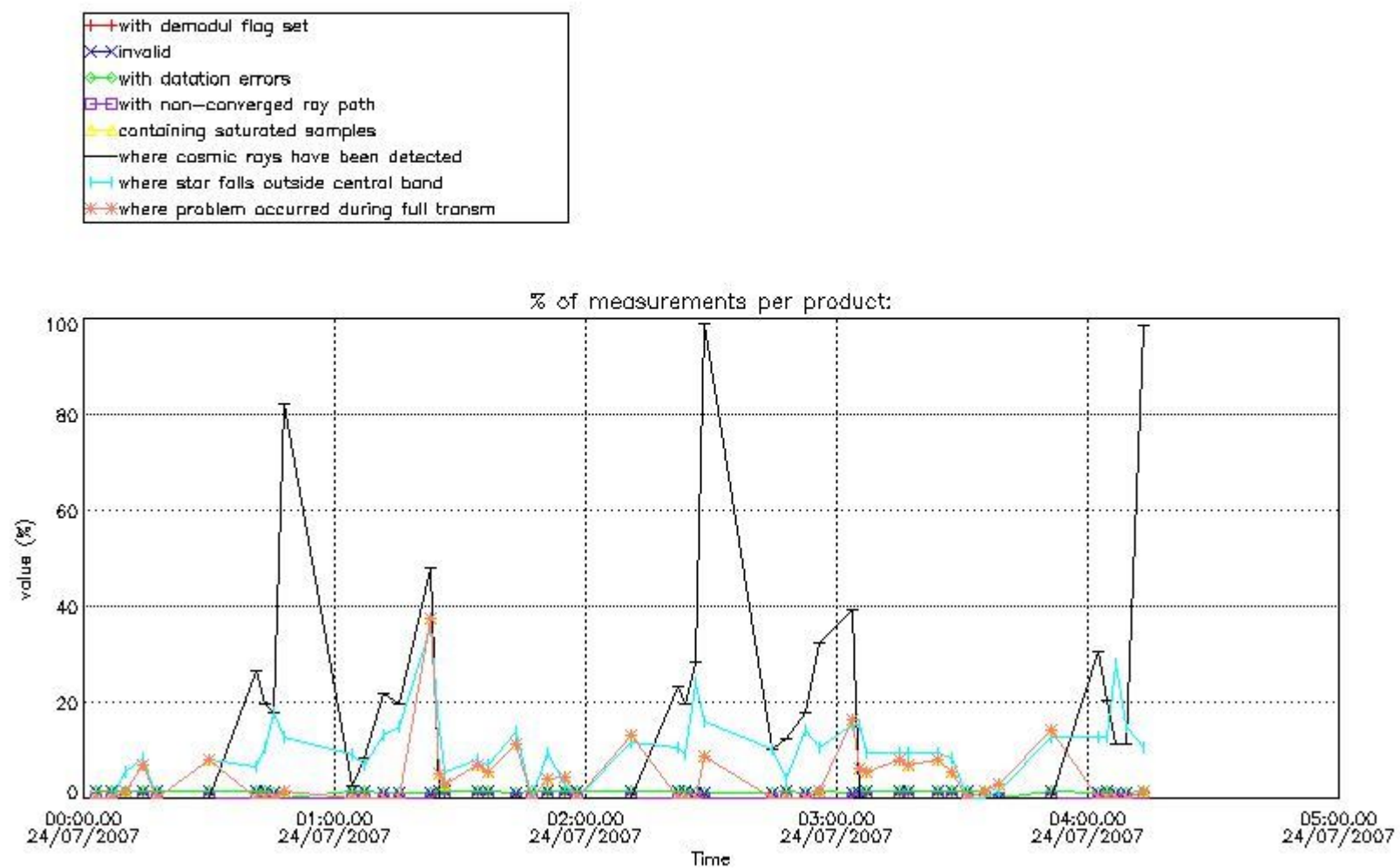
## 5. Demodulation flag and quality information monitoring

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:

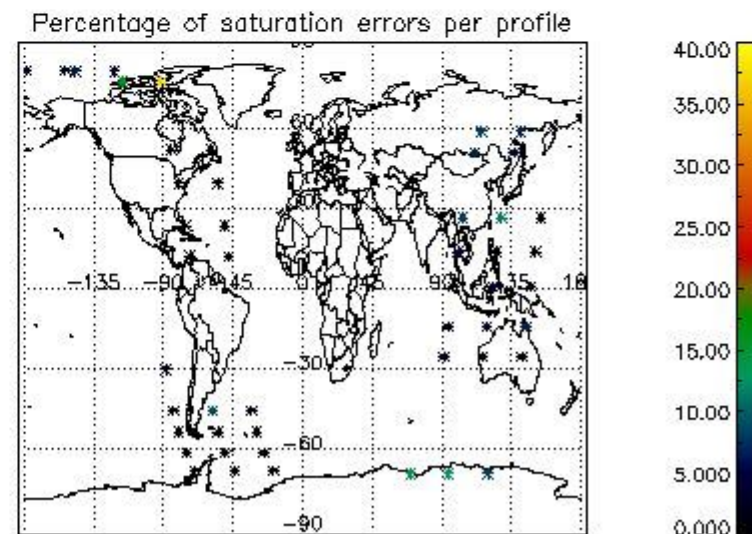
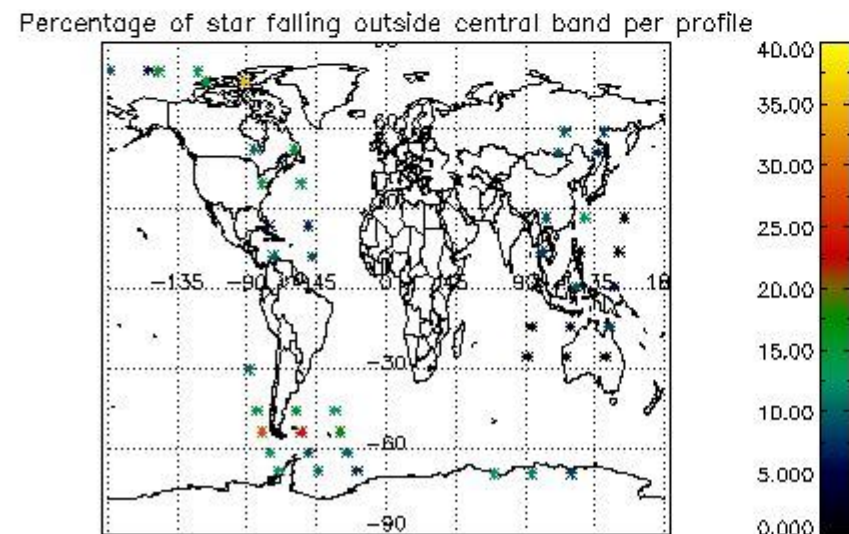
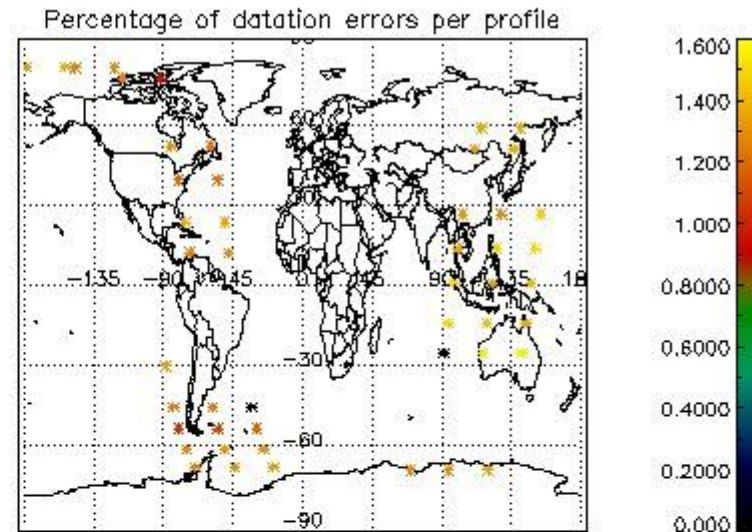
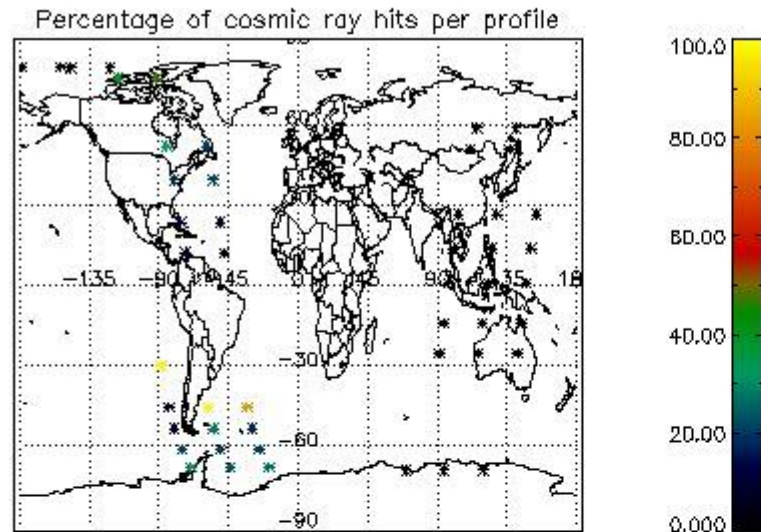
At least one measurement with demodulation flag set:	4.08163 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





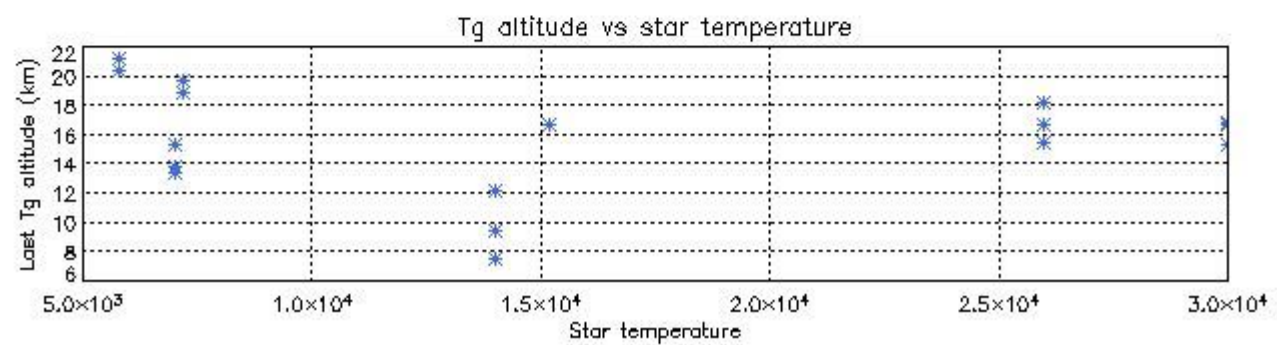
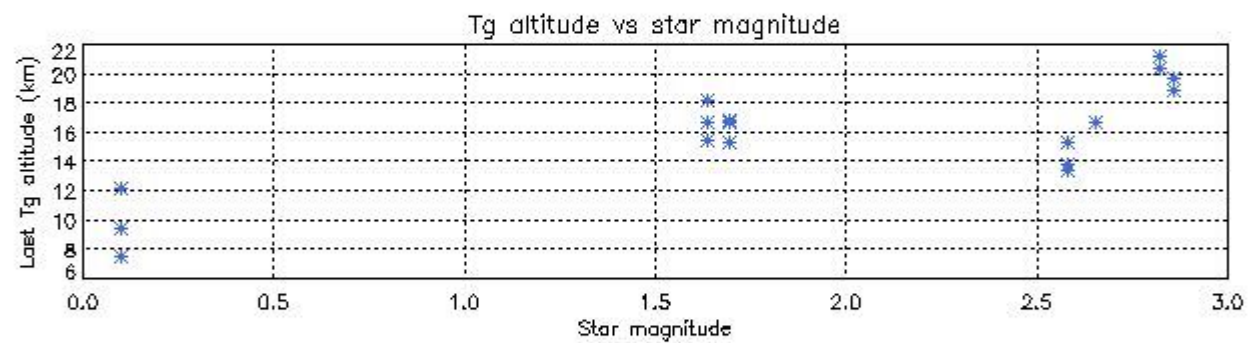
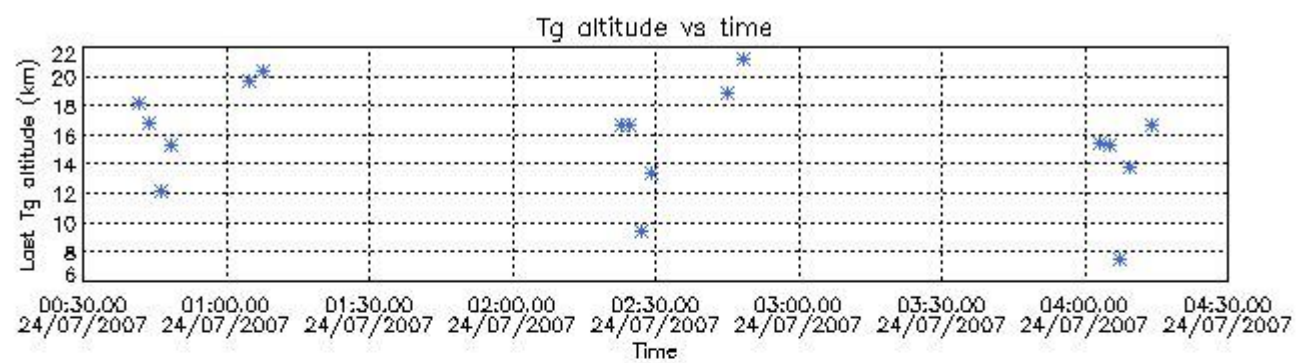
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.729	20.326	NaN
St. deviation:	3.6871	5.3567	NaN
Maximum:	21.159	30.053	NaN
Minimum:	7.4969	3.6059	NaN
Number of data:	17.000	28.000	NaN

### 6.2 Plot for DARK limb products

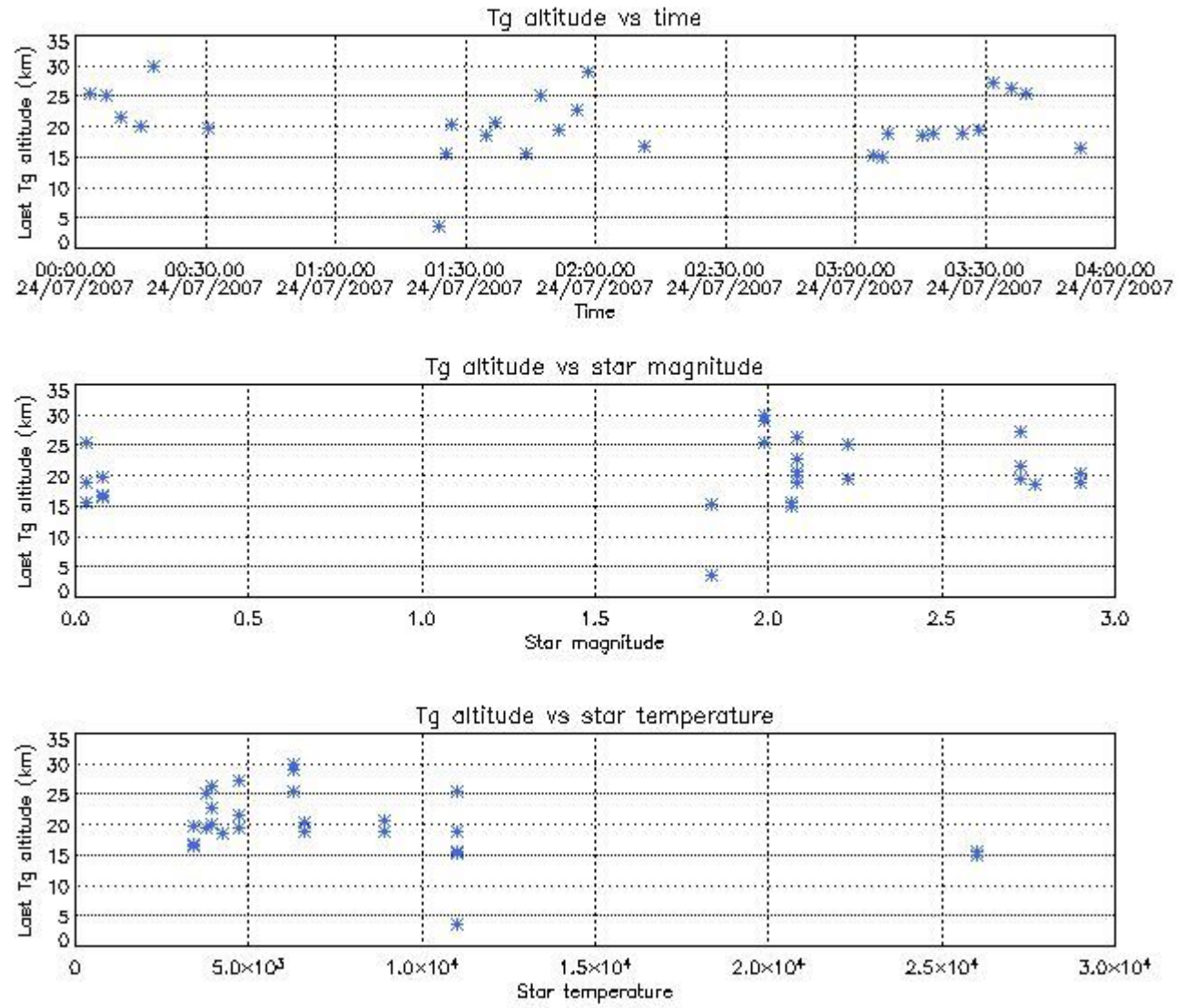
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

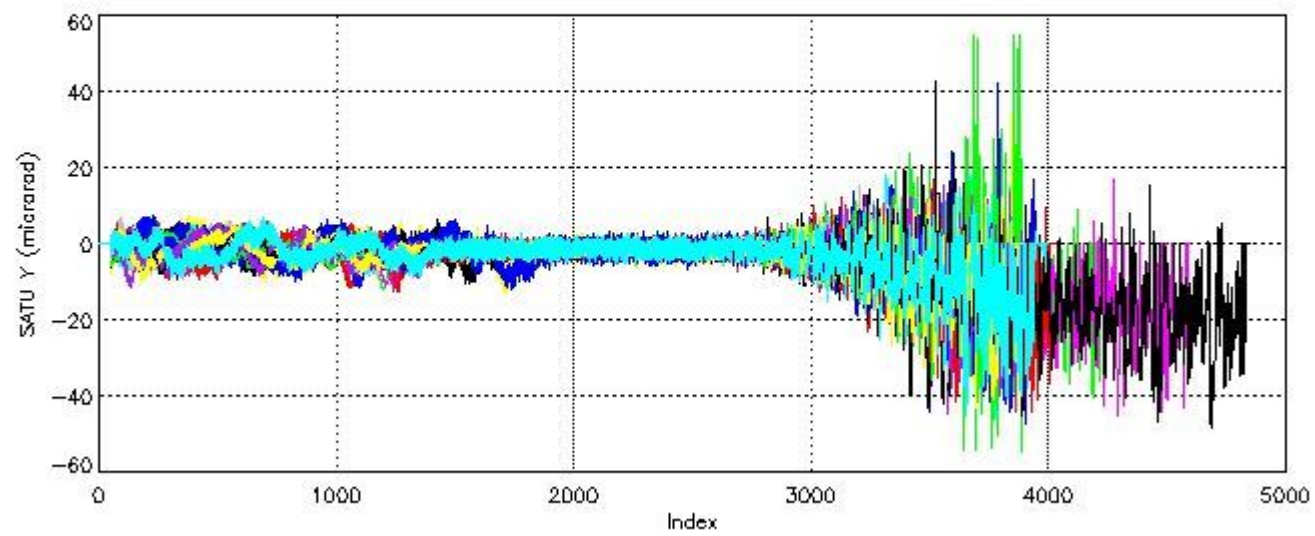
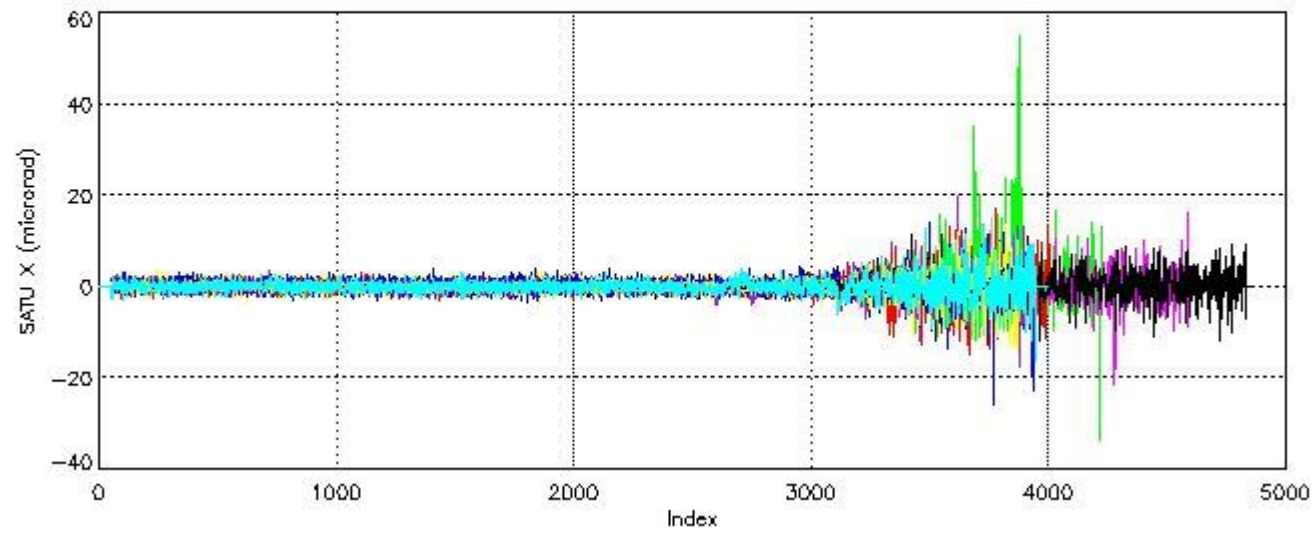


## 7. Star Acquisition and Tracking Unit (SATU)

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:	-0.034711	-1.3667	0.047213	-1.0235
St. deviation:	0.66611	2.9964	0.54287	2.8215
Maximum:	3.4000	8.3000	3.5000	6.8000
Minimum:	-4.0000	-11.400	-3.9000	-11.200

Number of data:	14750.	14750.	23200.	23200.
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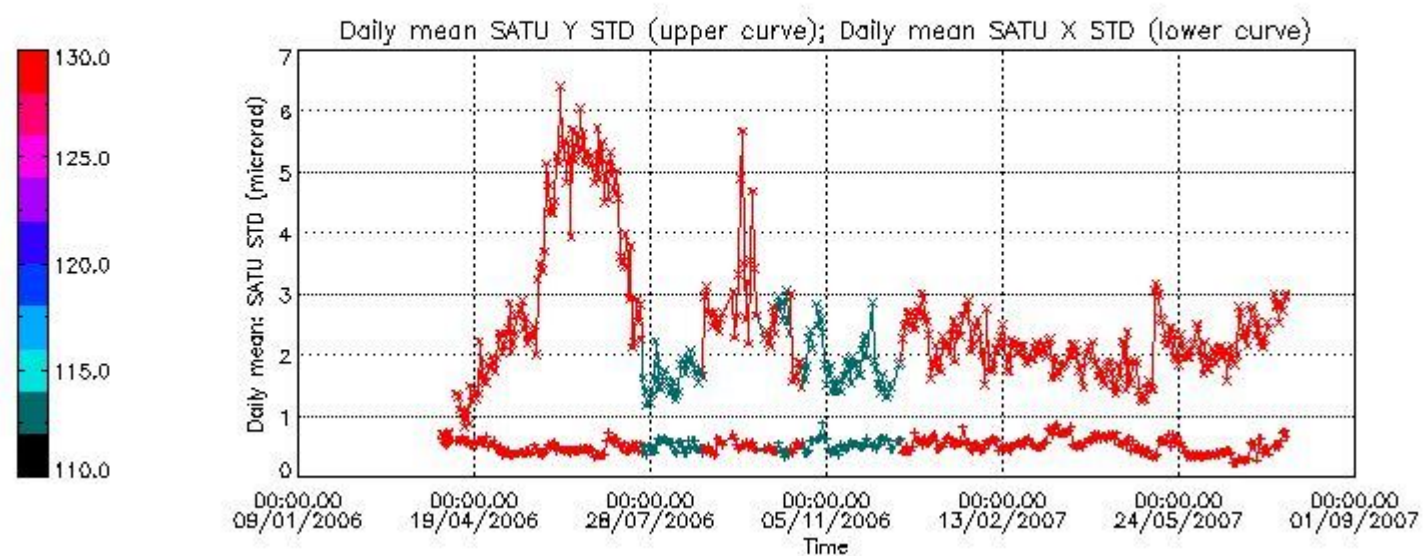
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

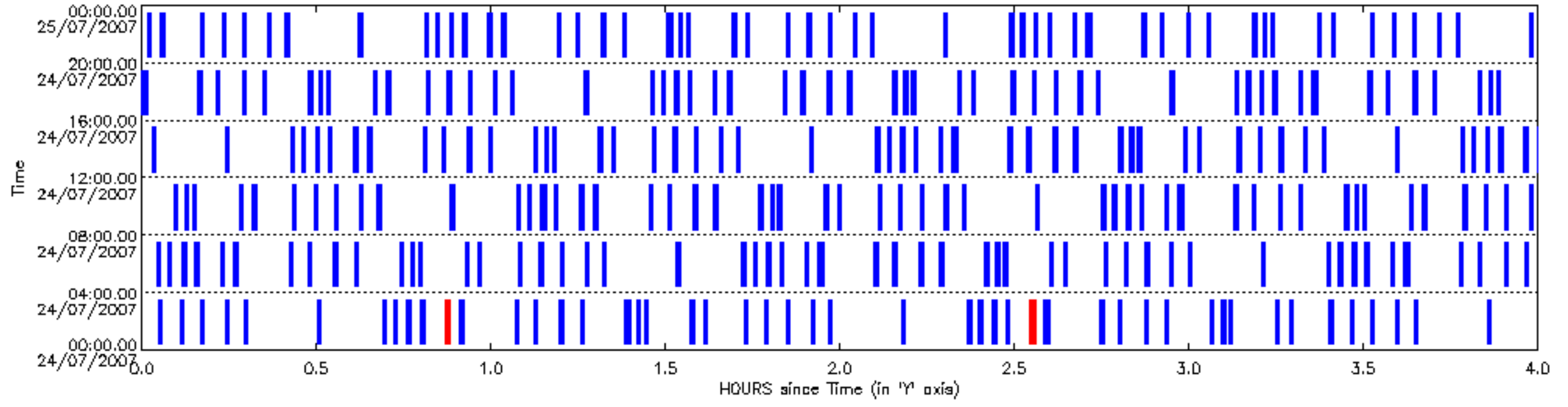


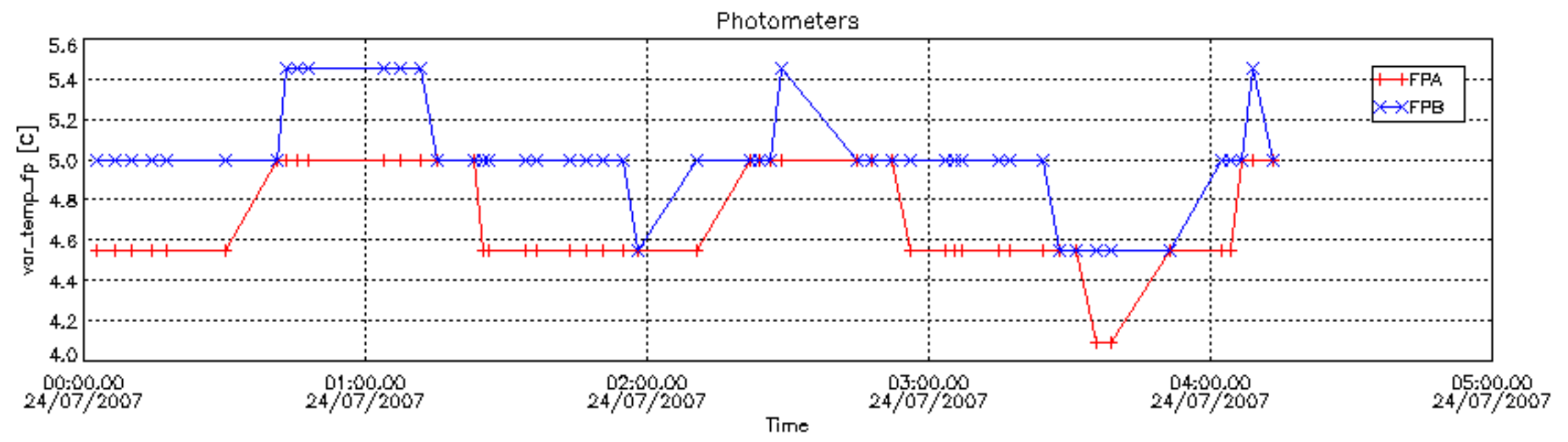
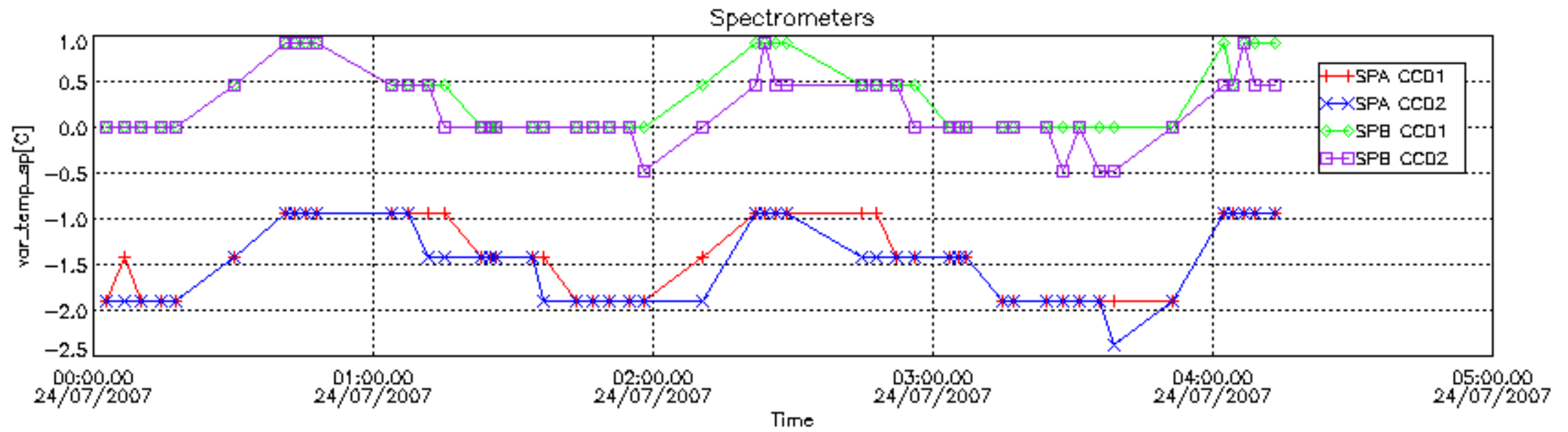
### 8. Auxiliary Data Files used for the production reported in section 2.4

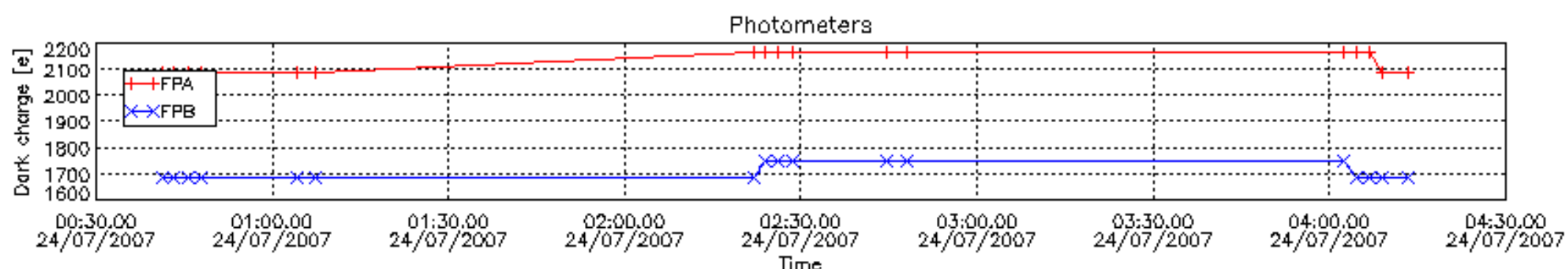
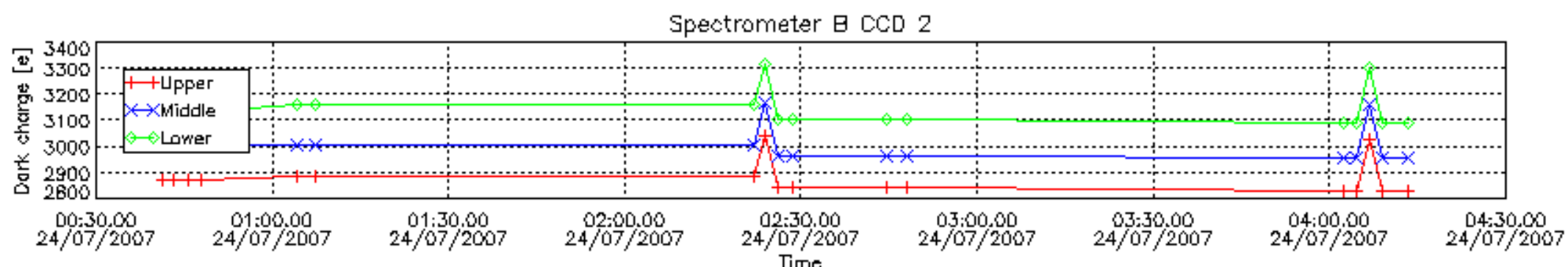
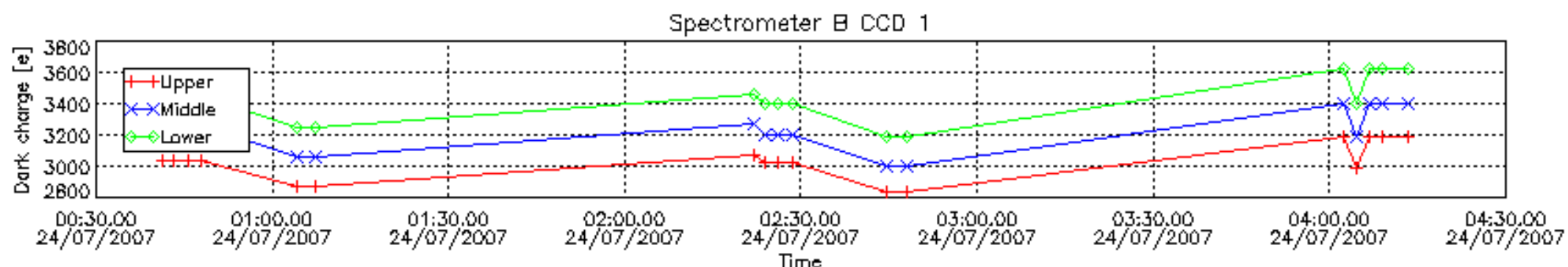
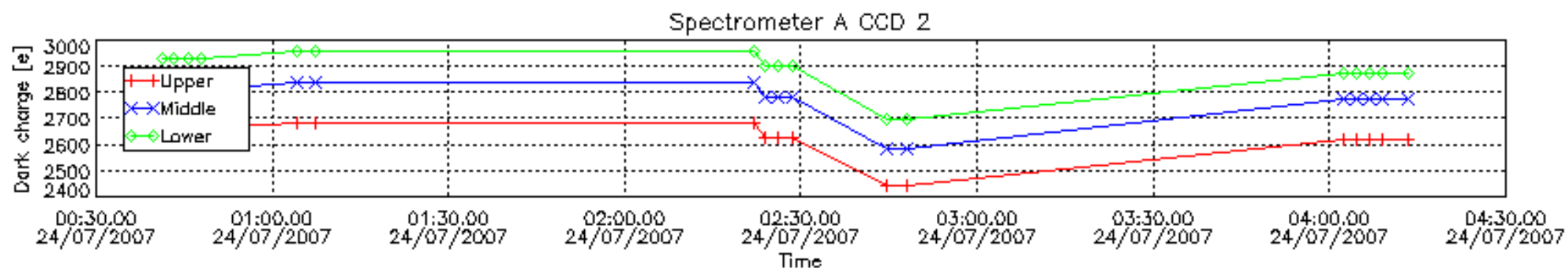
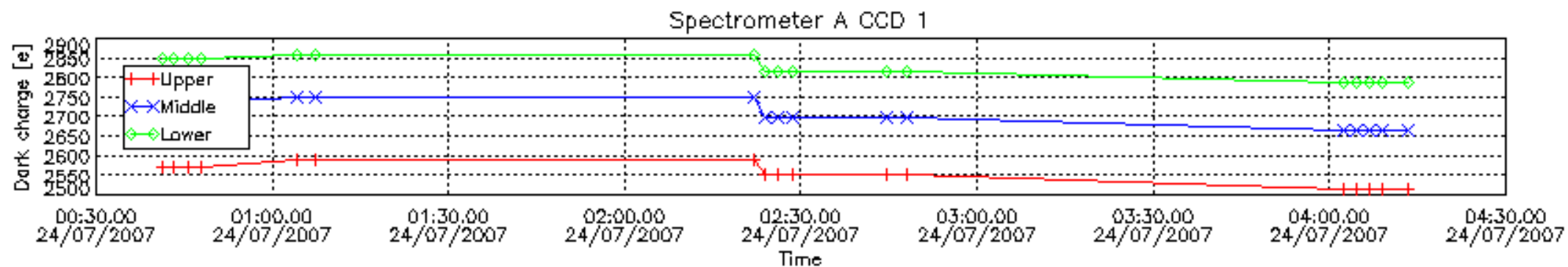
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
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LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	24-JUL-2007 00:02:55
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	24-JUL-2007 00:02:55
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	24-JUL-2007 00:02:55
ECMWF_FILE	AUX_ECF_AXNECM20070723_061112_20070723_210000_20070724_090000	1	24-JUL-2007 00:02:55
ECMWF_FILE	AUX_ECF_AXNECM20070723_181645_20070724_030000_20070724_150000	44	24-JUL-2007 03:51:14
OPTIONAL_ECMWF_FILE	MISSING	1	24-JUL-2007 00:02:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070723_212311_000057382060_00100_28210_3835.N1	1	24-JUL-2007 00:02:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070723_230408_000057382060_00101_28211_3836.N1	11	24-JUL-2007 01:04:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070724_004505_000054192060_00102_28212_3837.N1	27	24-JUL-2007 02:23:52
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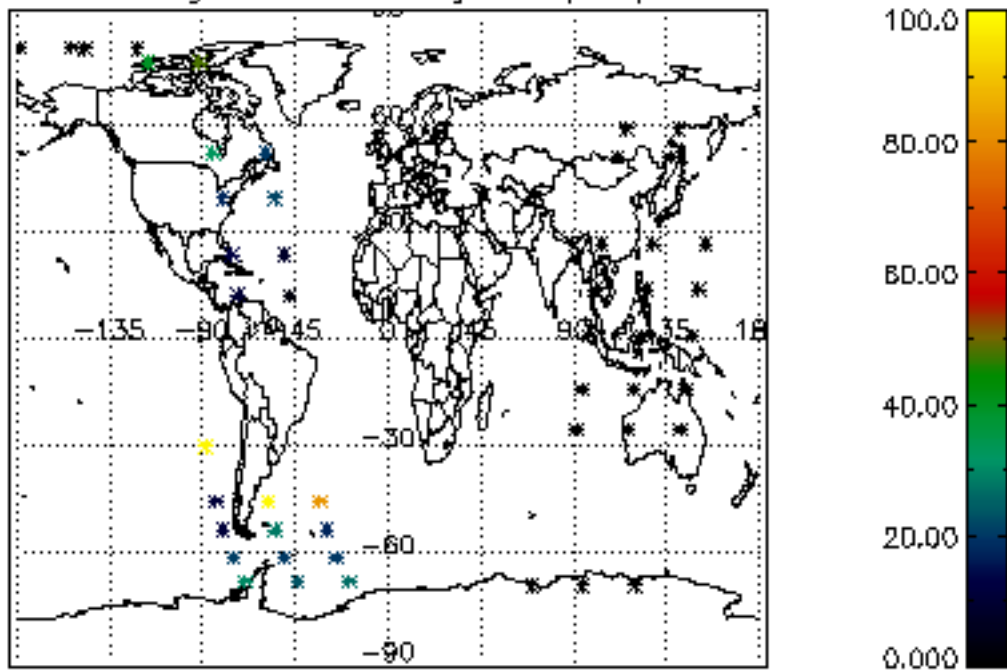




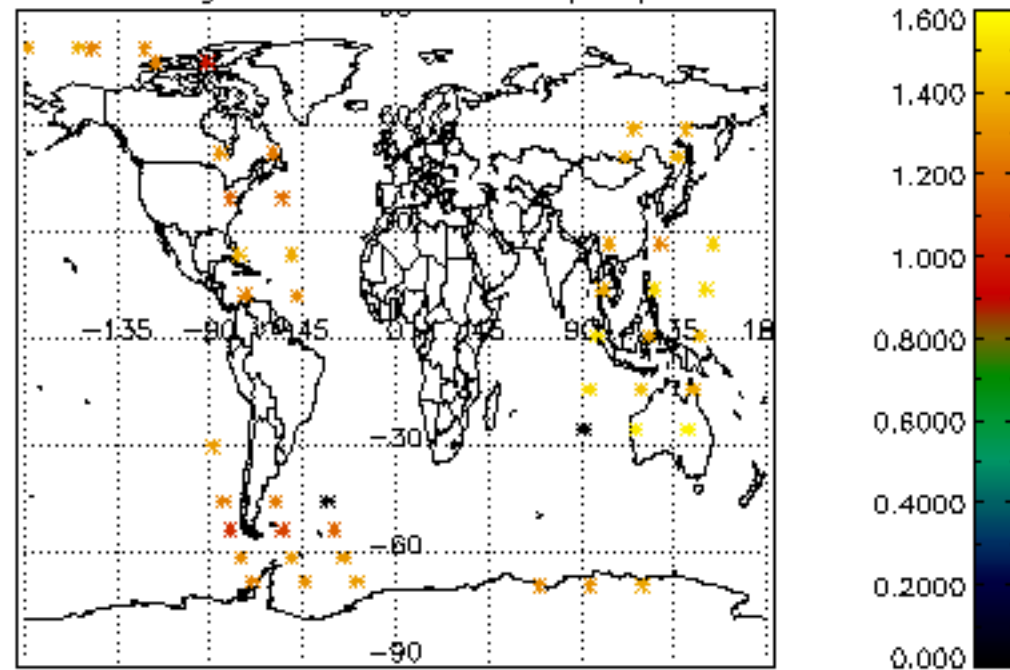




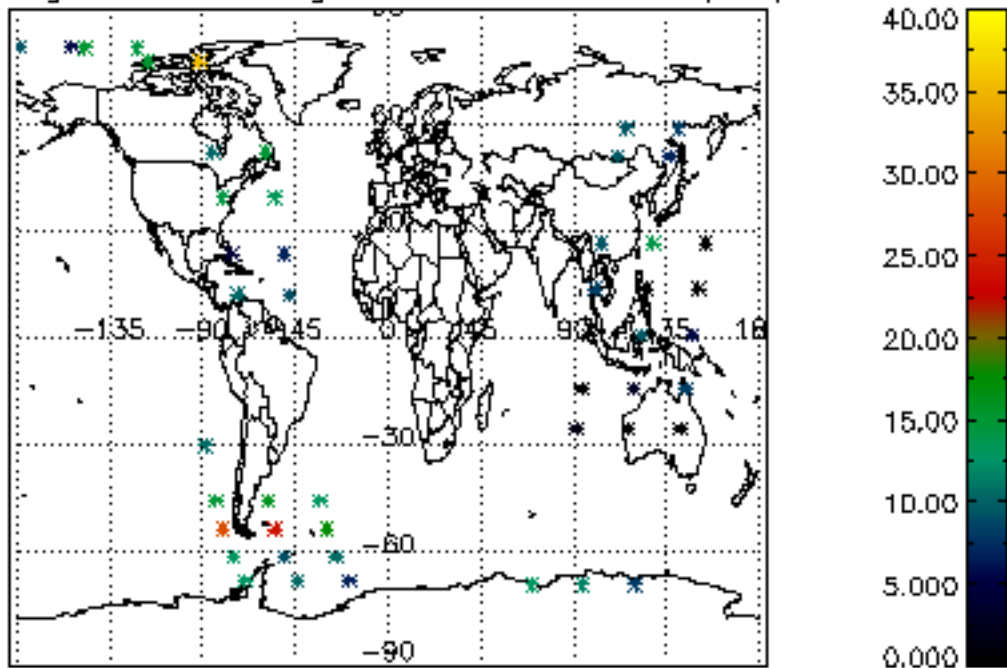
Percentage of cosmic ray hits per profile



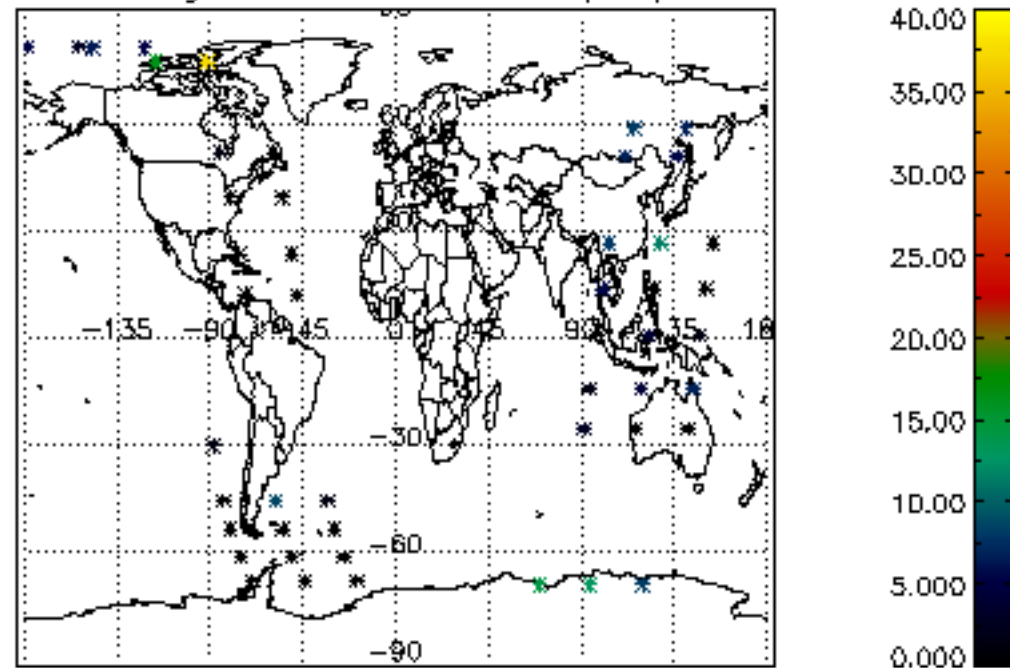
Percentage of datation errors per profile



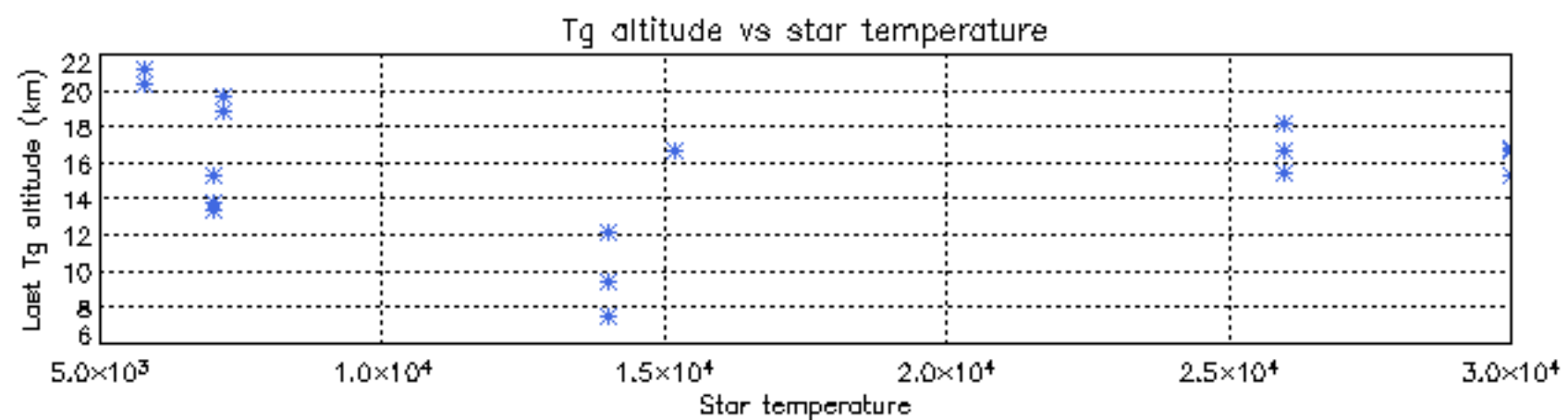
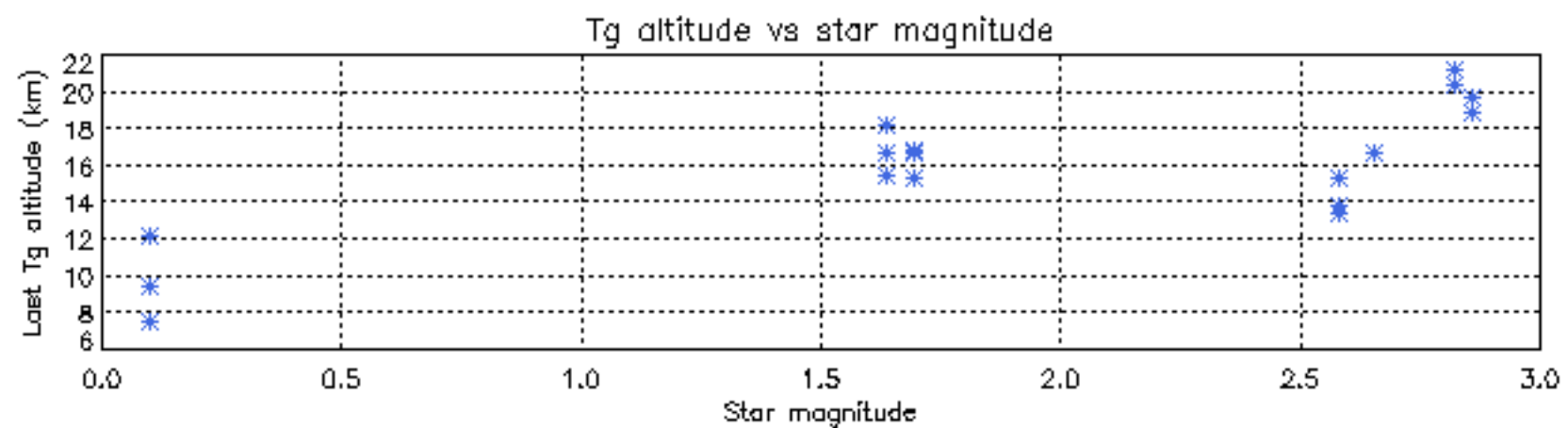
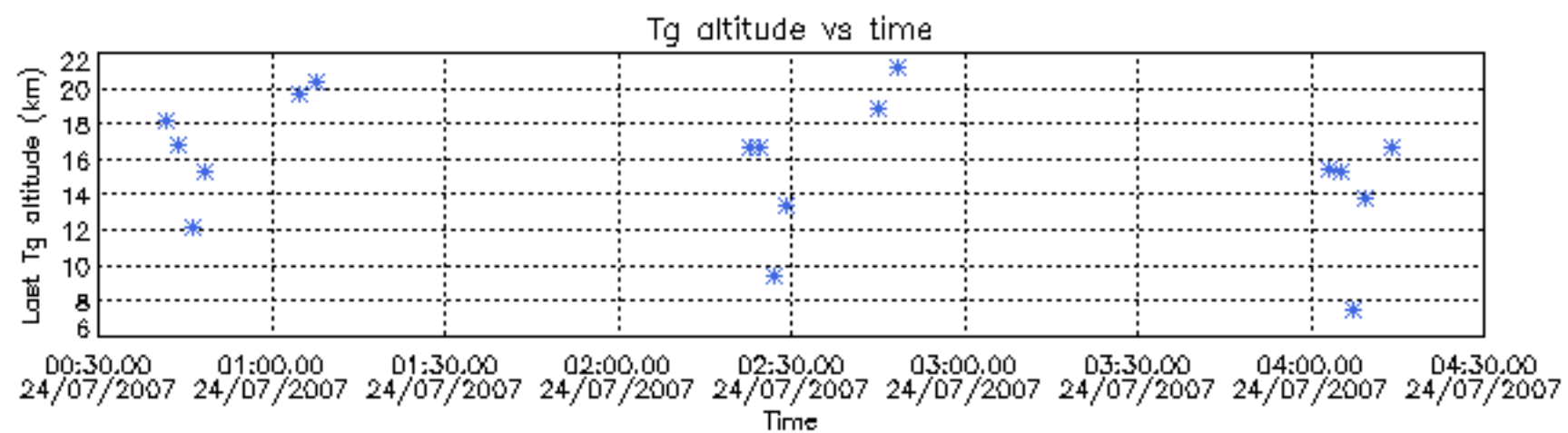
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

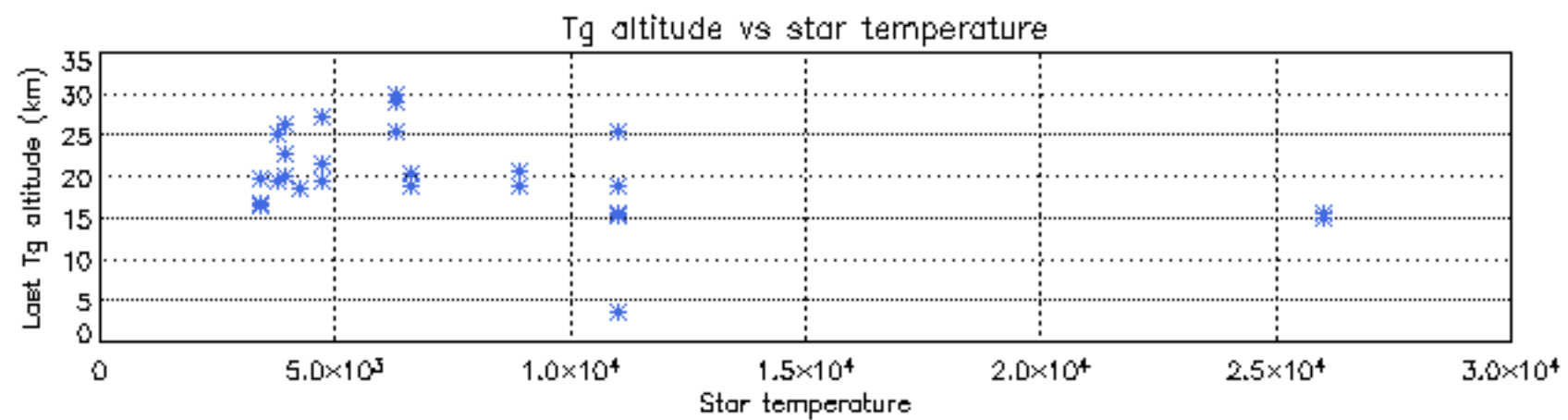
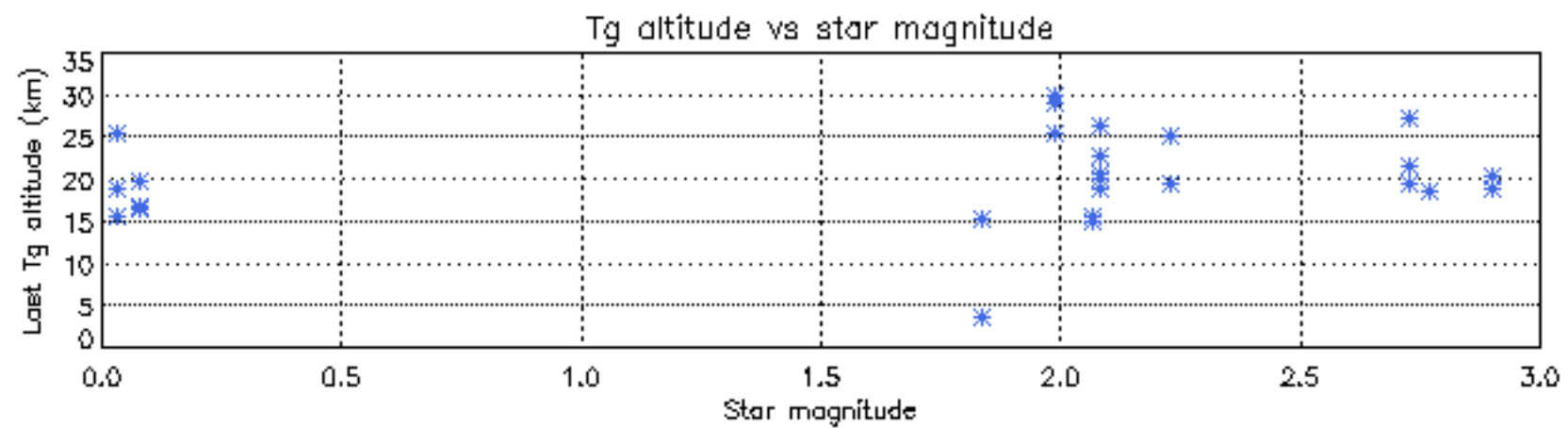
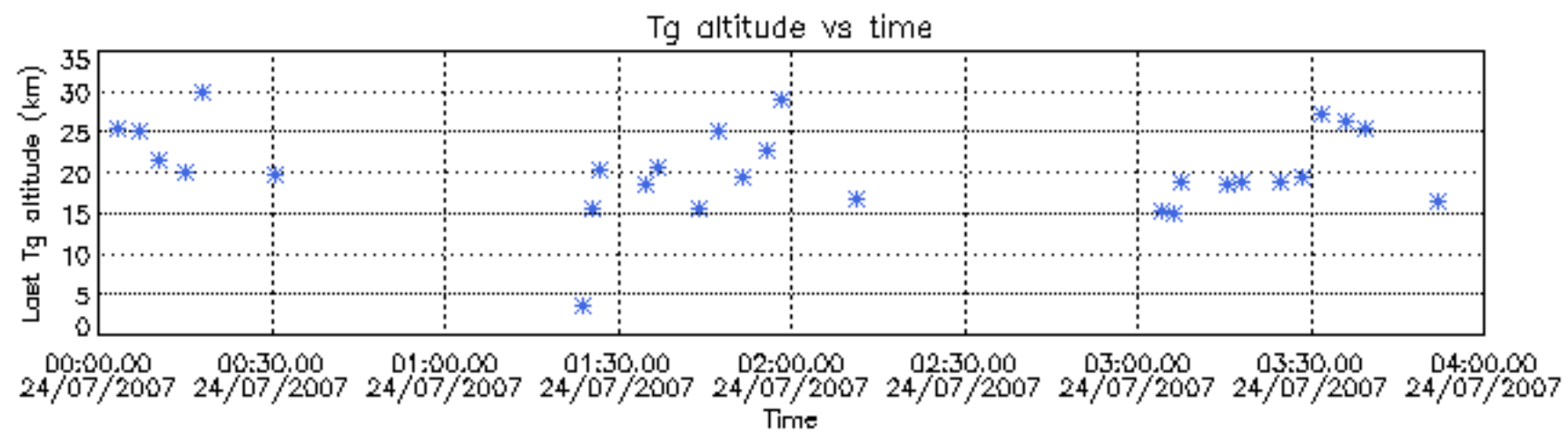


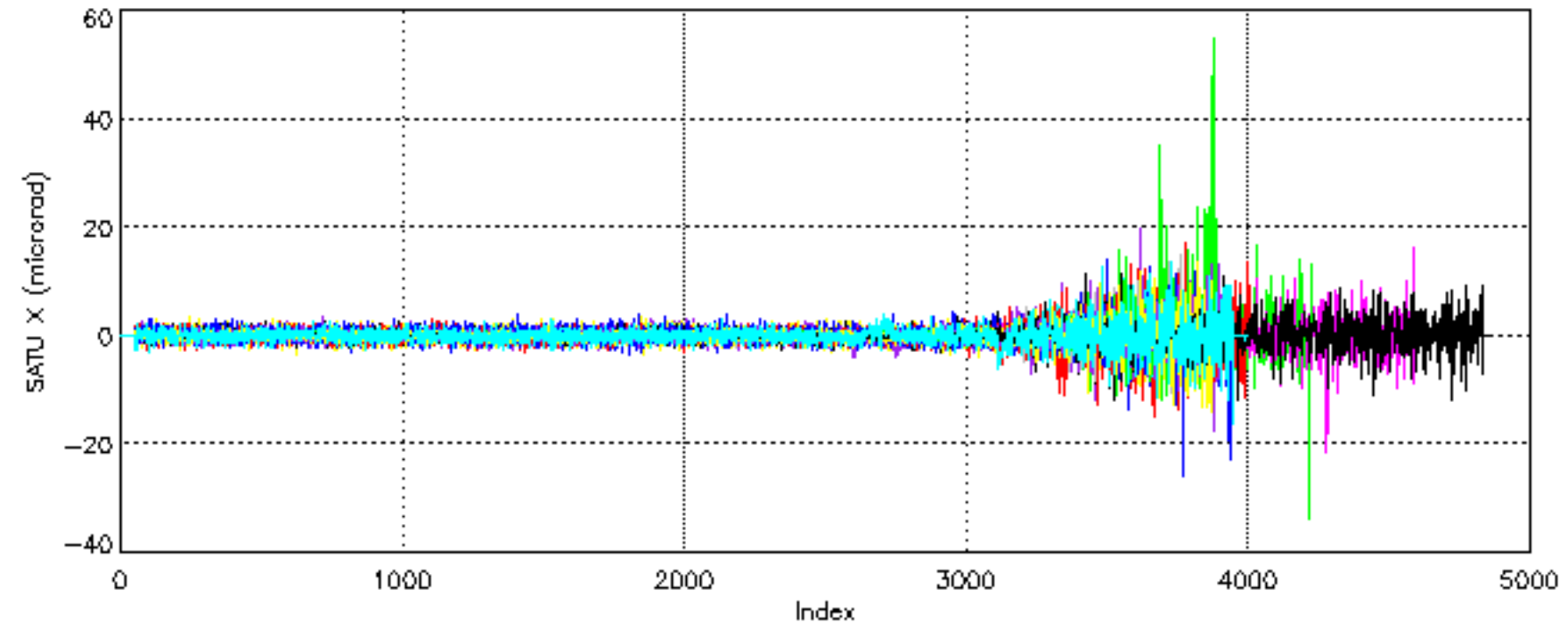
Tangent altitude at which the star is lost

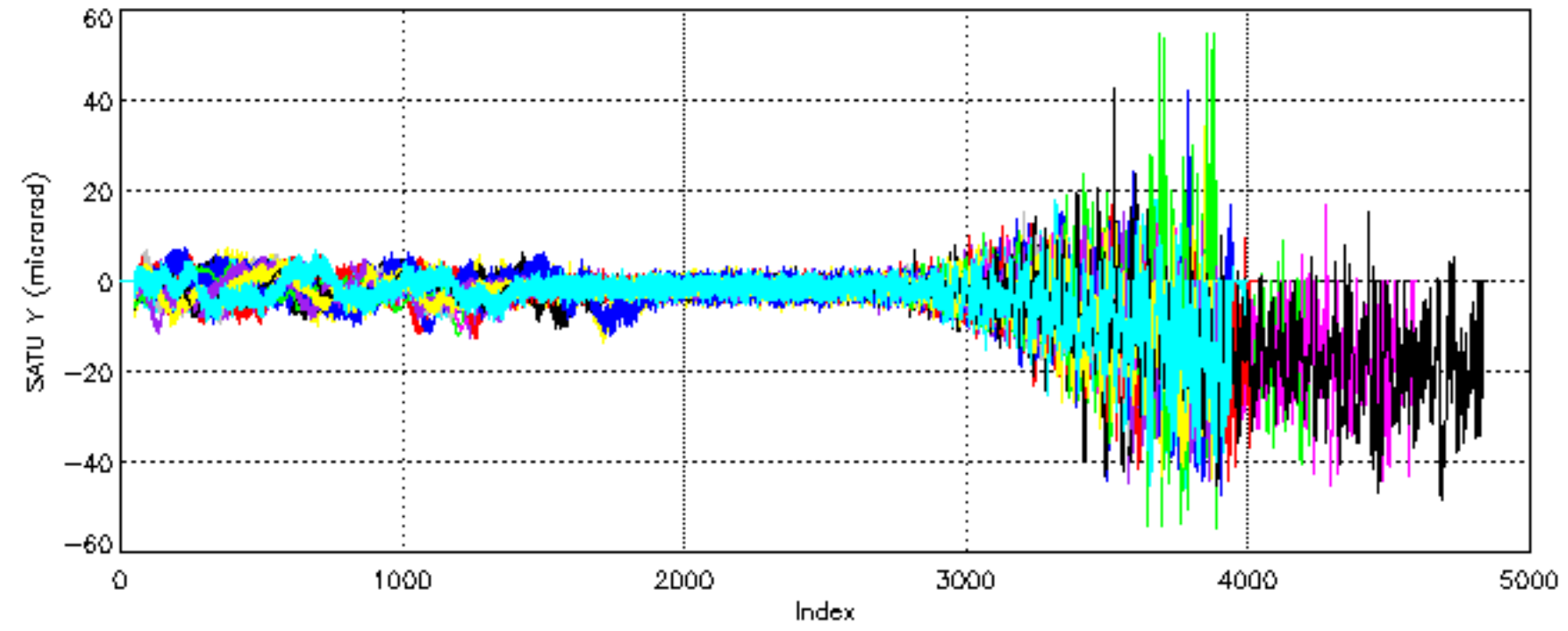




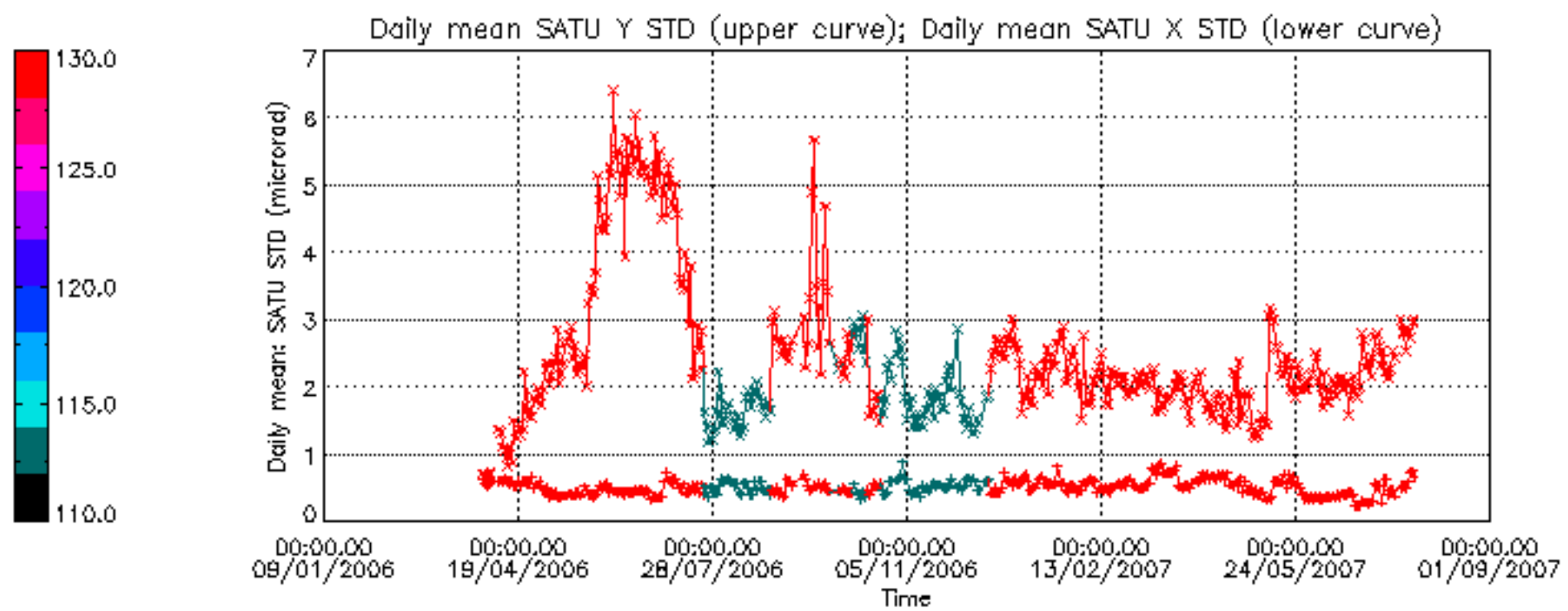
Tangent altitude at which the star is lost











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3; 2783.4; 17-JUL-2007 10:30:12; Bright; 37.5; 69; 33Gam Dra ; 2.23; 3800;occ; 75; 0;28118
4; 2980.0; 17-JUL-2007 10:33:29; Bright; 35.0; 119; 14Eta Dra ; 2.73; 4700;occ; 70; 0;28118
5; 3233.8; 17-JUL-2007 10:37:42; Bright; 33.0; 60; 7Bet UMi ; 2.08; 3950;occ; 66; 0;28118
6; 3444.3; 17-JUL-2007 10:41:13; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;28118
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8; 5102.3; 17-JUL-2007 11:08:51; Dark ; 37.0; 7; 19Bet Ori ; 0.10; 14000;occ; 74; 0;28118
9; 5248.4; 17-JUL-2007 11:11:17; Dark ; 37.0; 101; 11Alp Lep ; 2.58; 7000;occ; 74; 0;28118
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12; 6407.9; 17-JUL-2007 11:30:37; Dark ; 36.0; 135; Bet Hyi ; 2.82; 5800;occ; 72; 0;28118
13; 6651.0; 17-JUL-2007 11:34:40; Dark ; 41.5; 148; Alp Tuc ; 2.88; 4100;occ; 83; 0;28118
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4; 2135.8; 17-JUL-2007 17:01:48; Bright; 35.5; 59; 55Alp Oph ; 2.08; 8900;occ; 71; 0;28122

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9; 4723.8; 17-JUL-2007 17:44:56; Dark ; 46.0; 13; 87Alp Tau ; 0.87; 3800;occ; 92; 0;28122  
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11; 5248.5; 17-JUL-2007 17:53:41; Dark ; 37.5; 101; 11Alp Lep ; 2.58; 7000;occ; 75; 0;28122  
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13; 6203.8; 17-JUL-2007 18:09:36; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;28122  
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6; 2980.6; 17-JUL-2007 18:56:29; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;28123  
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3; 2782.8; 17-JUL-2007 12:10:47; Bright; 38.5; 69; 33Gam Dra ; 2.23; 3800;occ; 77; 0;28119  
4; 2979.6; 17-JUL-2007 12:14:04; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;28119  
5; 3233.5; 17-JUL-2007 12:18:18; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;28119  
6; 3443.6; 17-JUL-2007 12:21:48; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;28119  
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8; 5101.9; 17-JUL-2007 12:49:26; Dark ; 39.0; 7; 19Bet Ori ; 0.10; 14000;occ; 78; 0;28119  
9; 5247.9; 17-JUL-2007 12:51:52; Dark ; 38.5; 101; 11Alp Lep ; 2.58; 7000;occ; 77; 0;28119  
10; 5613.2; 17-JUL-2007 12:57:58; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;28119  
11; 6201.8; 17-JUL-2007 13:07:46; Dark ; 52.0; 9; Alp Eri ; 0.45; 24000;occ; 104; 0;28119  
12; 6407.6; 17-JUL-2007 13:11:12; Dark ; 37.5; 135; Bet Hyi ; 2.82; 5800;occ; 75; 0;28119  
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15; 7361.4; 17-JUL-2007 13:27:06; Dark ; 38.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 77; 0;28119  
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3; 2782.8; 17-JUL-2007 13:51:23; Bright; 37.0; 69; 33Gam Dra ; 2.23; 3800;occ; 74; 0;28120  
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5; 3233.7; 17-JUL-2007 13:58:54; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;28120  
6; 3443.8; 17-JUL-2007 14:02:24; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;28120  
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13; 6651.5; 17-JUL-2007 14:55:52; Dark ; 41.0; 148; Alp Tuc ; 2.88; 4100;occ; 82; 0;28120  
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