

# GOMOS Daily Report 24-JUL-2008

## 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	26JUL2008 05:32:17
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (24JUL2008 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (25JUL2008 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	48
Nb of prods with errors	1

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

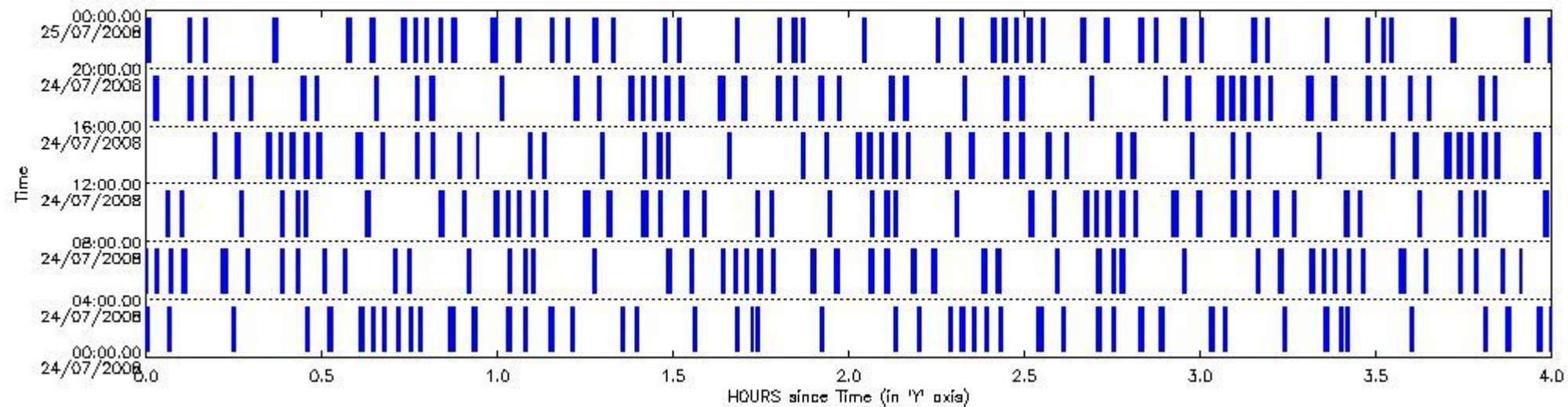
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

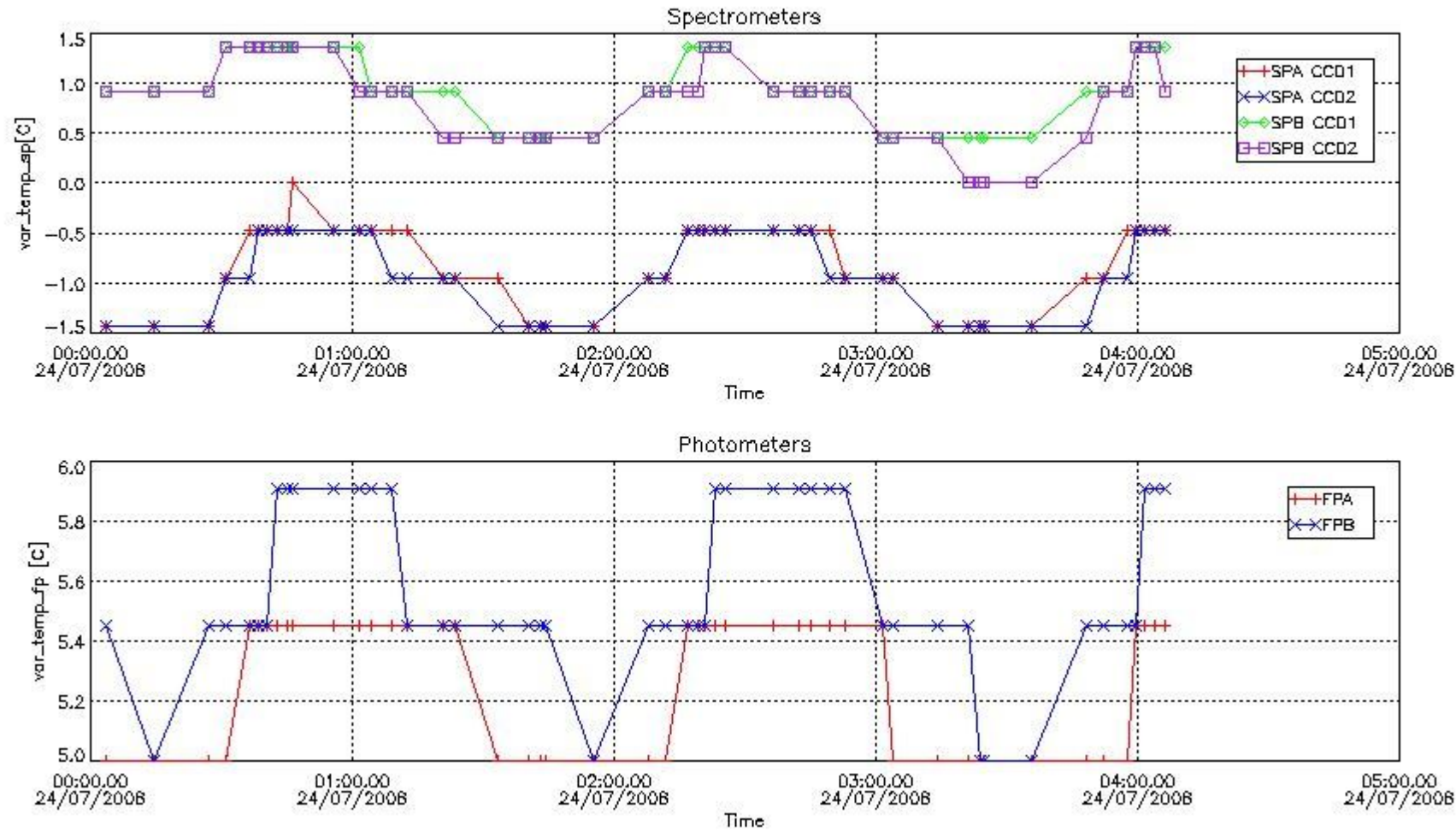
No missing products.

### 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_1PNPDE20080724_000333_000000342070_00331_33451_7707.N1	24-JUL-2008 00:03:33	Bright	34.000	69	33Gam Dra	2.2310	3800.0	68	33451	No
2	GOM_TRA_1PNPDE20080724_001431_000000362070_00331_33451_7708.N1	24-JUL-2008 00:14:31	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	33451	No
3	GOM_TRA_1PNPDE20080724_002705_000000412070_00331_33451_7709.N1	24-JUL-2008 00:27:05	Bright	40.500	6	13Alp Aur	0.080000	3400.0	81	33451	No
4	GOM_TRA_1PNPDE20080724_003100_000000422070_00331_33451_7710.N1	24-JUL-2008 00:31:00	Bright	42.000	114	3Iot Aur	2.6930	4600.0	84	33451	No
5	GOM_TRA_1PNPDE20080724_003620_000000512070_00331_33451_7711.N1	24-JUL-2008 00:36:20	Dark	50.500	13	87Alp Tau	0.86700	3800.0	101	33451	No
6	GOM_TRA_1PNPDE20080724_003825_000000392070_00331_33451_7712.N1	24-JUL-2008 00:38:25	Dark	38.500	27	24Gam Ori	1.6360	26000.	77	33451	No
7	GOM_TRA_1PNPDE20080724_004020_000000402070_00331_33451_7713.N1	24-JUL-2008 00:40:20	Dark	39.500	30	46Eps Ori	1.6940	30000.	79	33451	No
8	GOM_TRA_1PNPDE20080724_004239_000000432070_00331_33451_7714.N1	24-JUL-2008 00:42:39	Dark	42.500	7	19Bet Ori	0.10000	14000.	85	33451	No
9	GOM_TRA_1PNPDE20080724_004457_000000362070_00331_33451_7715.N1	24-JUL-2008 00:44:57	Dark	36.000	101	11Alp Lep	2.5820	7000.0	72	33451	No
10	GOM_TRA_1PNPDE20080724_004624_000000322070_00331_33451_7845.N1	24-JUL-2008 00:46:24	Dark	32.000	165	34Gam Eri	2.9500	3200.0	64	33451	Yes
11	GOM_TRA_1PNPDE20080724_005541_000000442070_00331_33451_7846.N1	24-JUL-2008 00:55:41	Dark	44.000	157	The1Eri	2.9060	9300.0	88	33451	No
12	GOM_TRA_1PNPDE20080724_010136_000000502070_00332_33452_7847.N1	24-JUL-2008 01:01:36	Dark	49.500	9	Alp Eri	0.45300	24000.	99	33452	No

13	GOM_TRA_1PNPDE20080724_010422_000000372070_00332_33452_7848.N1	24-JUL-2008 01:04:22	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	33452	No
14	GOM_TRA_1PNPDE20080724_010852_000000422070_00332_33452_7849.N1	24-JUL-2008 01:08:52	Straylight	42.000	148	Alp Tuc	2.8780	4100.0	84	33452	No
15	GOM_TRA_1PNPDE20080724_011224_000000402070_00332_33452_7850.N1	24-JUL-2008 01:12:24	Straylight	40.000	45	Alp Pav	1.9400	26000.	80	33452	No
16	GOM_TRA_1PNPDE20080724_012058_000000442070_00332_33452_7851.N1	24-JUL-2008 01:20:58	Bright	44.000	103	38Zet Sgr	2.6000	9700.0	88	33452	No
17	GOM_TRA_1PNPDE20080724_012322_000000382070_00332_33452_7852.N1	24-JUL-2008 01:23:22	Bright	37.500	155	41Pi Sgr	2.9000	6600.0	75	33452	No
18	GOM_TRA_1PNPDE20080724_013329_000000212070_00332_33452_7853.N1	24-JUL-2008 01:33:29	Tw_i_and_stray	20.500	168	17Zet Aql	2.9860	11000.	41	33452	No
19	GOM_TRA_1PNPDE20080724_014032_000000402070_00332_33452_7854.N1	24-JUL-2008 01:40:32	Bright	39.500	5	3Alp Lyr	0.033000	11000.	79	33452	No
20	GOM_TRA_1PNPDE20080724_014309_000000262070_00332_33452_7855.N1	24-JUL-2008 01:43:09	Tw_i_and_stray	26.000	144	18Del Cyg	2.8600	11000.	52	33452	No
21	GOM_TRA_1PNPDE20080724_014409_000000332070_00332_33452_7856.N1	24-JUL-2008 01:44:09	Bright	32.500	69	33Gam Dra	2.2310	3800.0	65	33452	No
22	GOM_TRA_1PNPDE20080724_015506_000000342070_00332_33452_7857.N1	24-JUL-2008 01:55:06	Bright	33.500	49	1Alp UMi	1.9900	6300.0	67	33452	No
23	GOM_TRA_1PNPDE20080724_020741_000000382070_00332_33452_7858.N1	24-JUL-2008 02:07:41	Bright	38.000	6	13Alp Aur	0.080000	3400.0	76	33452	No
24	GOM_TRA_1PNPDE20080724_021136_000000412070_00332_33452_7859.N1	24-JUL-2008 02:11:36	Bright	41.000	114	3Iot Aur	2.6930	4600.0	82	33452	No
25	GOM_TRA_1PNPDE20080724_021656_000000452070_00332_33452_7860.N1	24-JUL-2008 02:16:56	Dark	44.500	13	87Alp Tau	0.86700	3800.0	89	33452	No
26	GOM_TRA_1PNPDE20080724_021901_000000392070_00332_33452_7861.N1	24-JUL-2008 02:19:01	Dark	38.500	27	24Gam Ori	1.6360	26000.	77	33452	No
27	GOM_TRA_1PNPDE20080724_022057_000000372070_00332_33452_8012.N1	24-JUL-2008 02:20:57	Dark	37.000	30	46Eps Ori	1.6940	30000.	74	33452	No
28	GOM_TRA_1PNPDE20080724_022315_000000372070_00332_33452_8013.N1	24-JUL-2008 02:23:15	Dark	36.500	7	19Bet Ori	0.10000	14000.	73	33452	No
29	GOM_TRA_1PNPDE20080724_022533_000000352070_00332_33452_8014.N1	24-JUL-2008 02:25:33	Dark	34.500	101	11Alp Lep	2.5820	7000.0	69	33452	No
30	GOM_TRA_1PNPDE20080724_023618_000000432070_00332_33452_8015.N1	24-JUL-2008 02:36:18	Dark	42.500	157	The1Eri	2.9060	9300.0	85	33452	No
31	GOM_TRA_1PNPDE20080724_024213_000000502070_00333_33453_8016.N1	24-JUL-2008 02:42:13	Dark	50.000	9	Alp Eri	0.45300	24000.	100	33453	No
32	GOM_TRA_1PNPDE20080724_024458_000000372070_00333_33453_8017.N1	24-JUL-2008 02:44:58	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	33453	No
33	GOM_TRA_1PNPDE20080724_024928_000000422070_00333_33453_8018.N1	24-JUL-2008 02:49:28	Straylight	42.000	148	Alp Tuc	2.8780	4100.0	84	33453	No
34	GOM_TRA_1PNPDE20080724_025300_000000412070_00333_33453_8019.N1	24-JUL-2008 02:53:00	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	33453	No
35	GOM_TRA_1PNPDE20080724_030134_000000392070_00333_33453_8020.N1	24-JUL-2008 03:01:34	Bright	38.500	103	38Zet Sgr	2.6000	9700.0	77	33453	No
36	GOM_TRA_1PNPDE20080724_030358_000000372070_00333_33453_8021.N1	24-JUL-2008 03:03:58	Bright	37.000	155	41Pi Sgr	2.9000	6600.0	74	33453	No
37	GOM_TRA_1PNPDE20080724_031405_000000362070_00333_33453_8022.N1	24-JUL-2008 03:14:05	Bright	35.500	168	17Zet Aql	2.9860	11000.	71	33453	No
38	GOM_TRA_1PNPDE20080724_032108_000000392070_00333_33453_8023.N1	24-JUL-2008 03:21:08	Bright	38.500	5	3Alp Lyr	0.033000	11000.	77	33453	No
39	GOM_TRA_1PNPDE20080724_032345_000000262070_00333_33453_8024.N1	24-JUL-2008 03:23:45	Tw_i_and_stray	26.000	144	18Del Cyg	2.8600	11000.	52	33453	No
40	GOM_TRA_1PNPDE20080724_032445_000000342070_00333_33453_8025.N1	24-JUL-2008 03:24:45	Bright	34.000	69	33Gam Dra	2.2310	3800.0	68	33453	No
41	GOM_TRA_1PNPDE20080724_033542_000000322070_00333_33453_8026.N1	24-JUL-2008 03:35:42	Bright	32.000	49	1Alp UMi	1.9900	6300.0	64	33453	No
42	GOM_TRA_1PNPDE20080724_034817_000000382070_00333_33453_8167.N1	24-JUL-2008 03:48:17	Bright	38.000	6	13Alp Aur	0.080000	3400.0	76	33453	No
43	GOM_TRA_1PNPDE20080724_035212_000000412070_00333_33453_8168.N1	24-JUL-2008 03:52:12	Bright	41.000	114	3Iot Aur	2.6930	4600.0	82	33453	No
44	GOM_TRA_1PNPDE20080724_035732_000000442070_00333_33453_8169.N1	24-JUL-2008 03:57:32	Dark	43.500	13	87Alp Tau	0.86700	3800.0	87	33453	No
45	GOM_TRA_1PNPDE20080724_035937_000000382070_00333_33453_8170.N1	24-JUL-2008 03:59:37	Dark	37.500	27	24Gam Ori	1.6360	26000.	75	33453	No
46	GOM_TRA_1PNPDE20080724_040133_000000352070_00333_33453_8171.N1	24-JUL-2008 04:01:33	Dark	35.000	30	46Eps Ori	1.6940	30000.	70	33453	No
47	GOM_TRA_1PNPDE20080724_040351_000000352070_00333_33453_8172.N1	24-JUL-2008 04:03:51	Dark	35.000	7	19Bet Ori	0.10000	14000.	70	33453	No
48	GOM_TRA_1PNPDE20080724_040609_000000392070_00333_33453_8173.N1	24-JUL-2008 04:06:09	Dark	38.500	101	11Alp Lep	2.5820	7000.0	77	33453	No

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



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

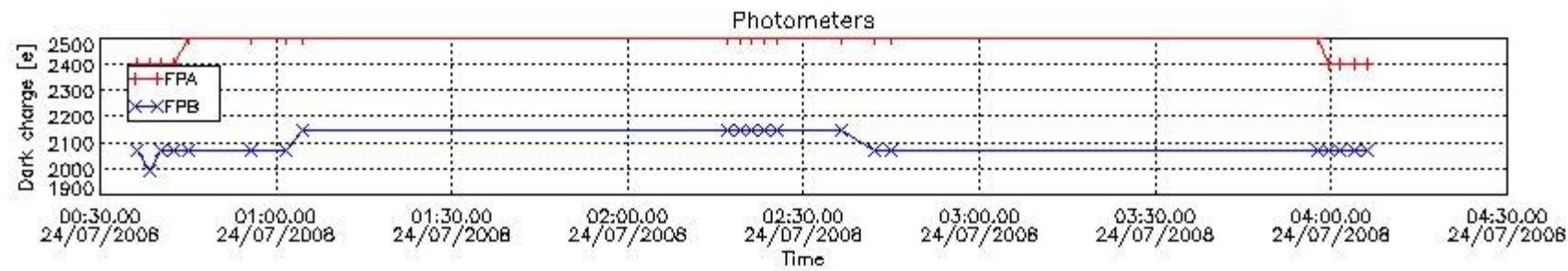
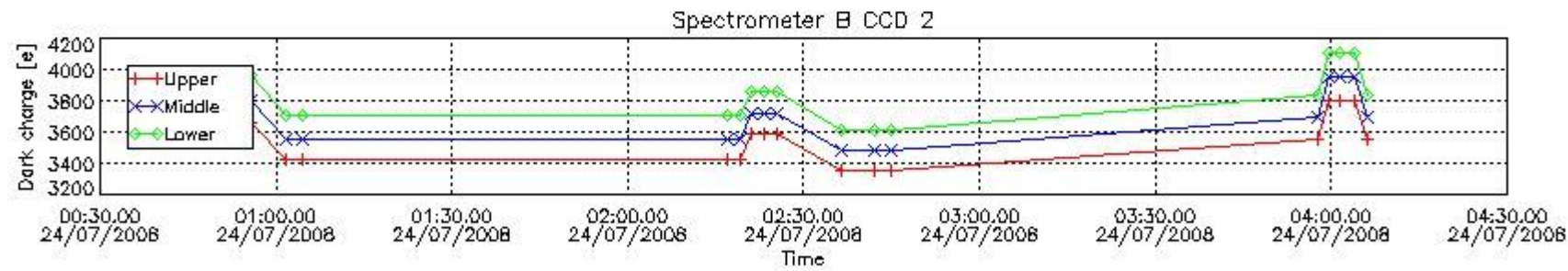
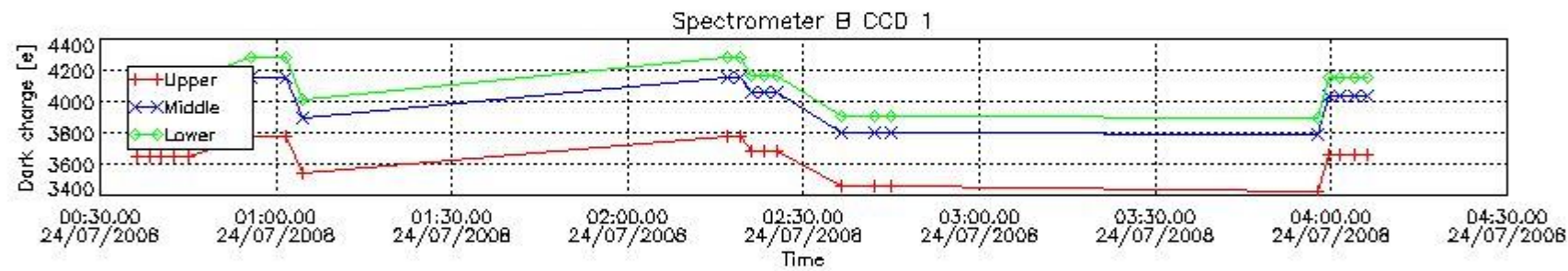
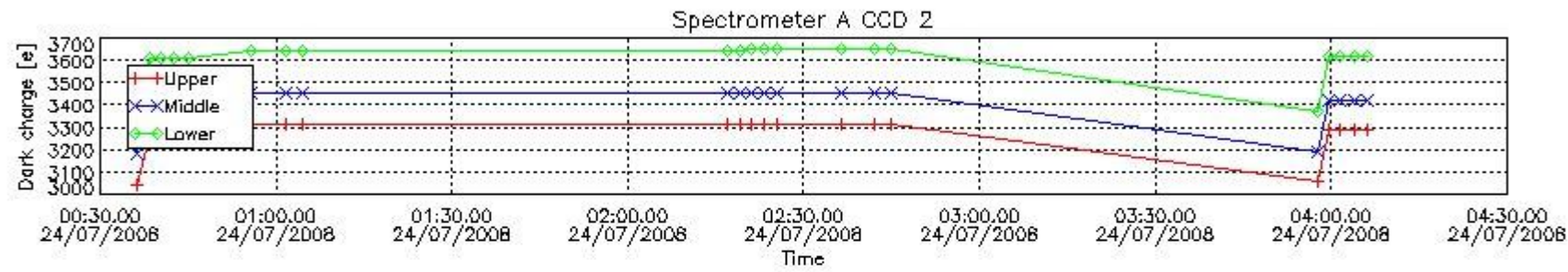
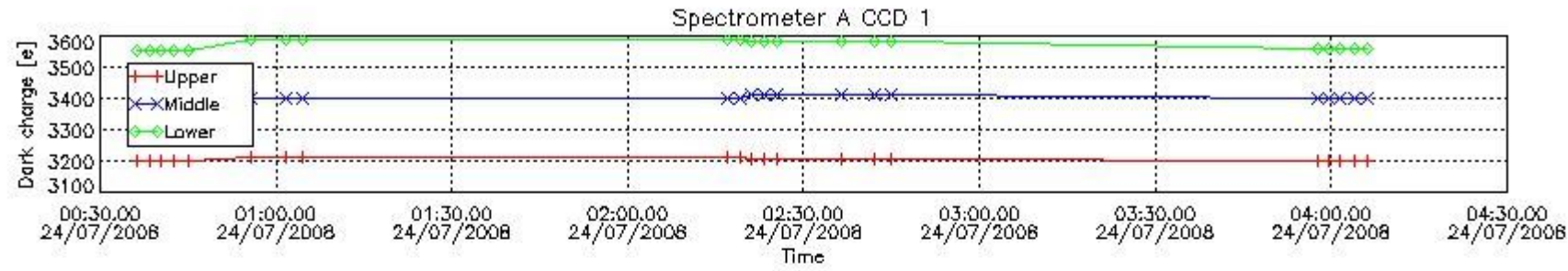
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





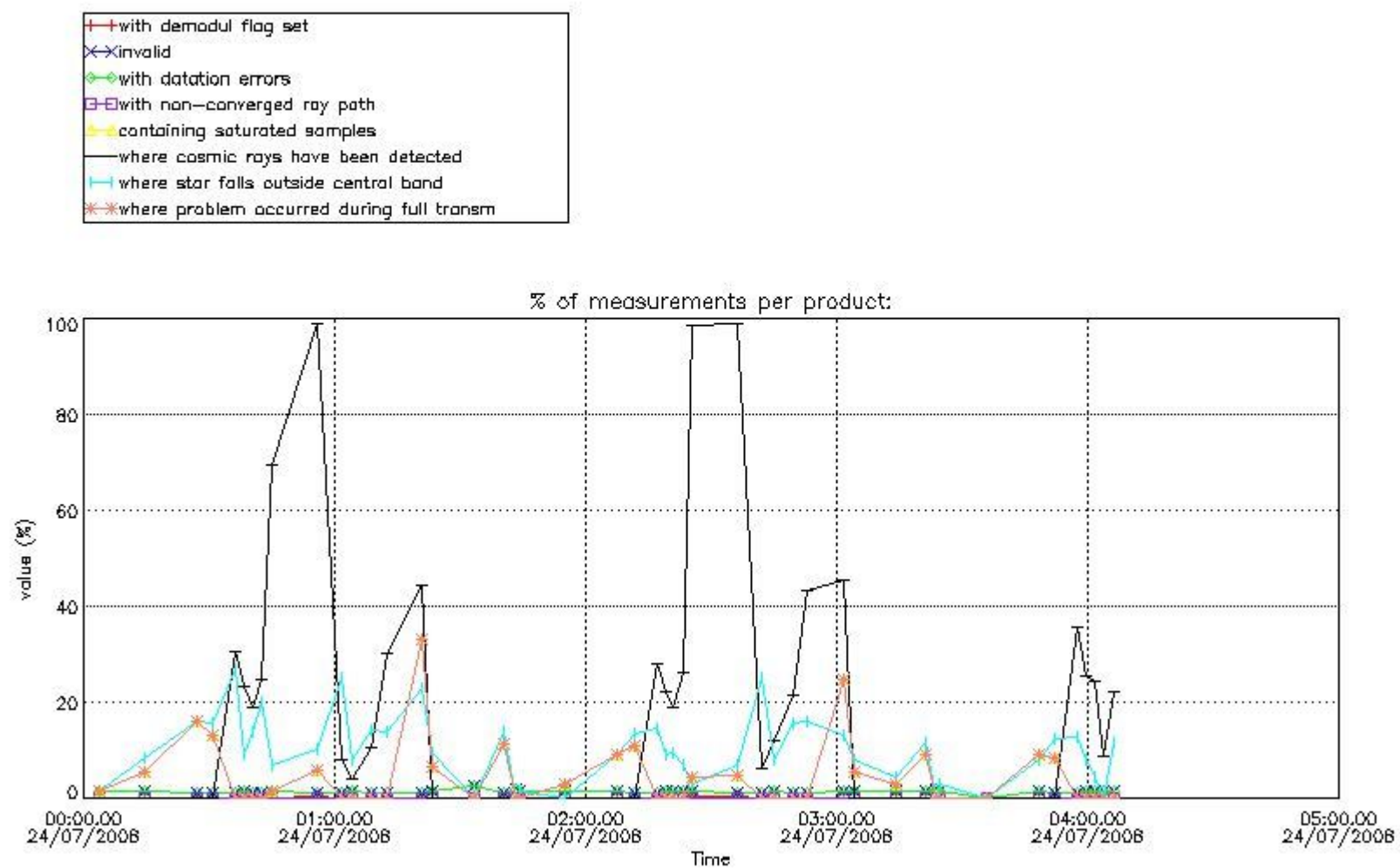
## 5. Demodulation flag and quality information monitoring

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:

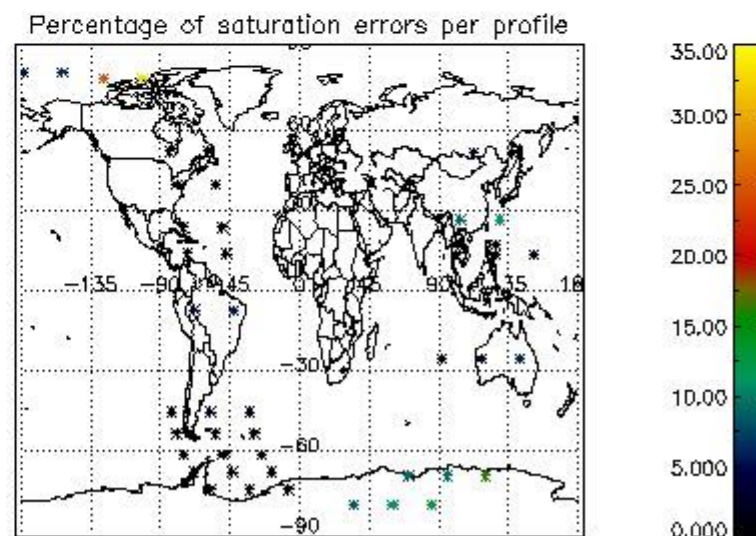
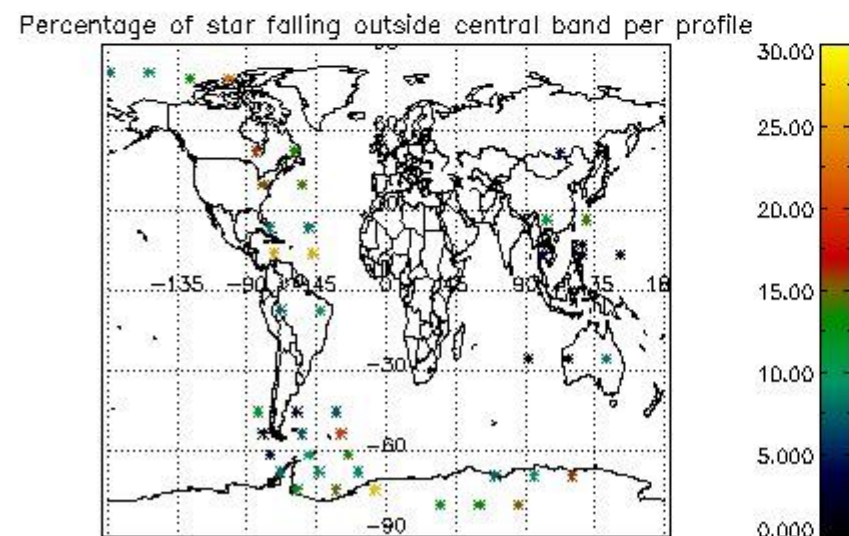
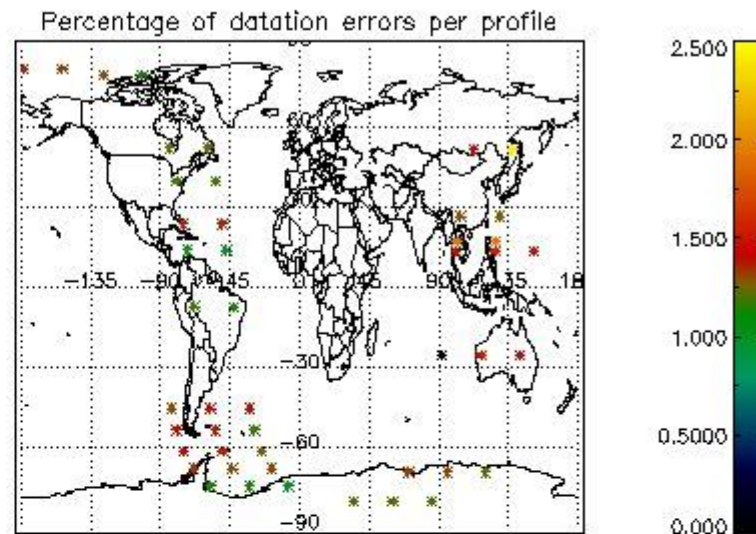
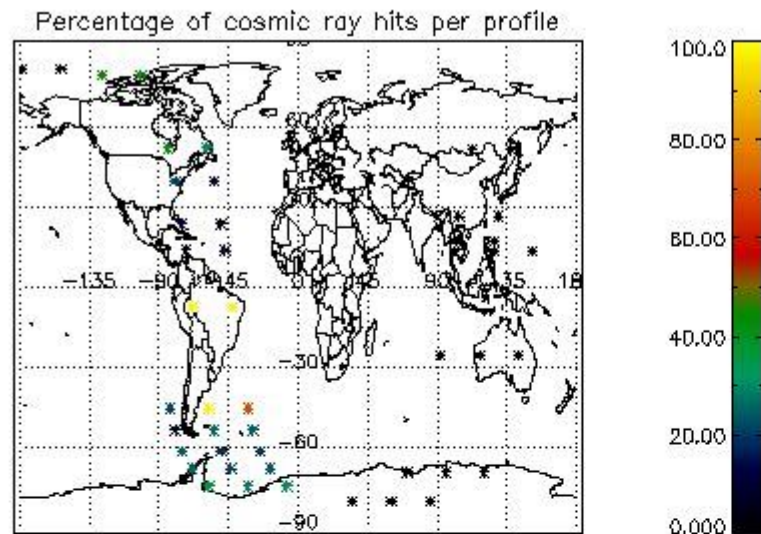
At least one measurement with demodulation flag set:	25.5319 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





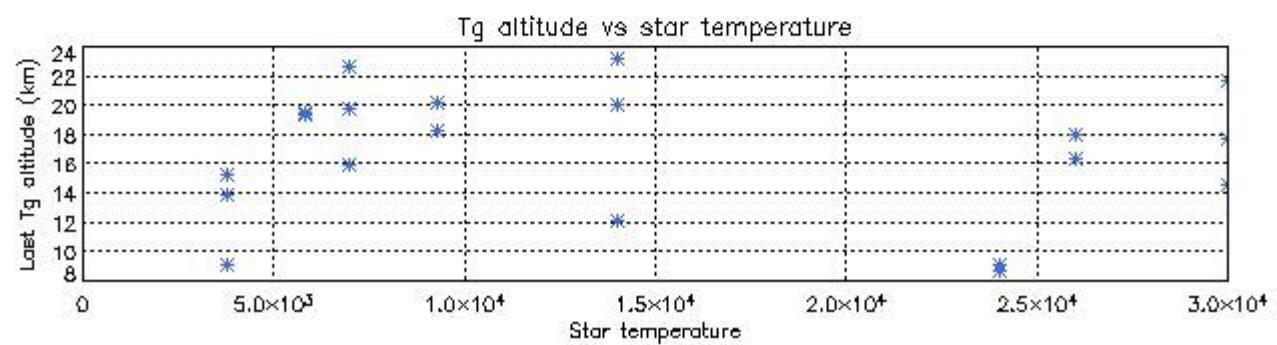
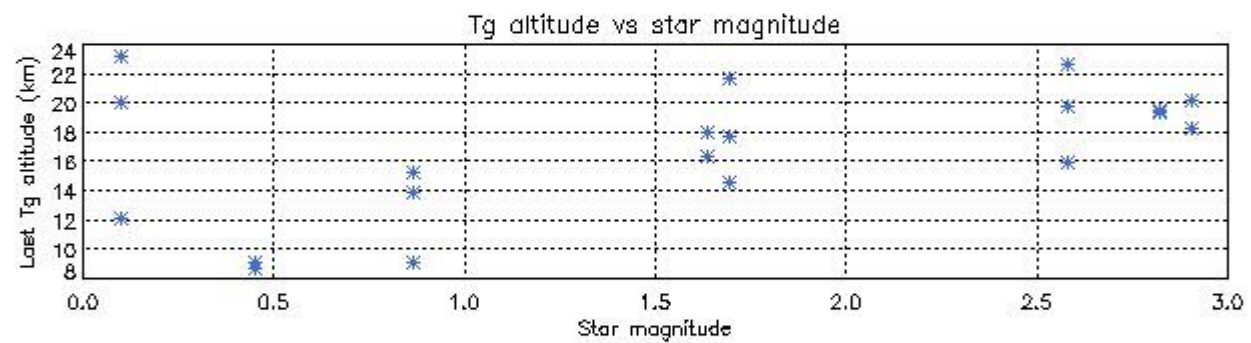
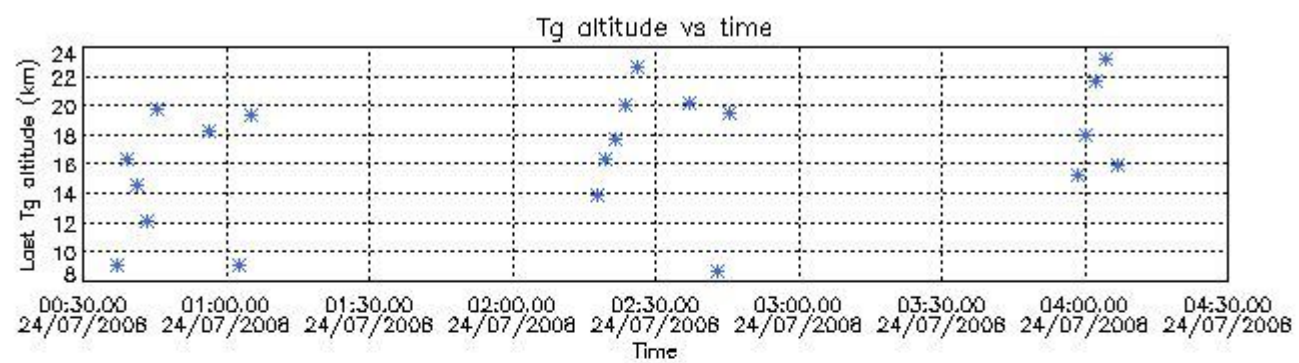
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.738	19.507	NaN
St. deviation:	4.3052	5.0974	NaN
Maximum:	23.178	29.988	NaN
Minimum:	8.6236	10.549	NaN
Number of data:	21.000	19.000	NaN

### 6.2 Plot for DARK limb products

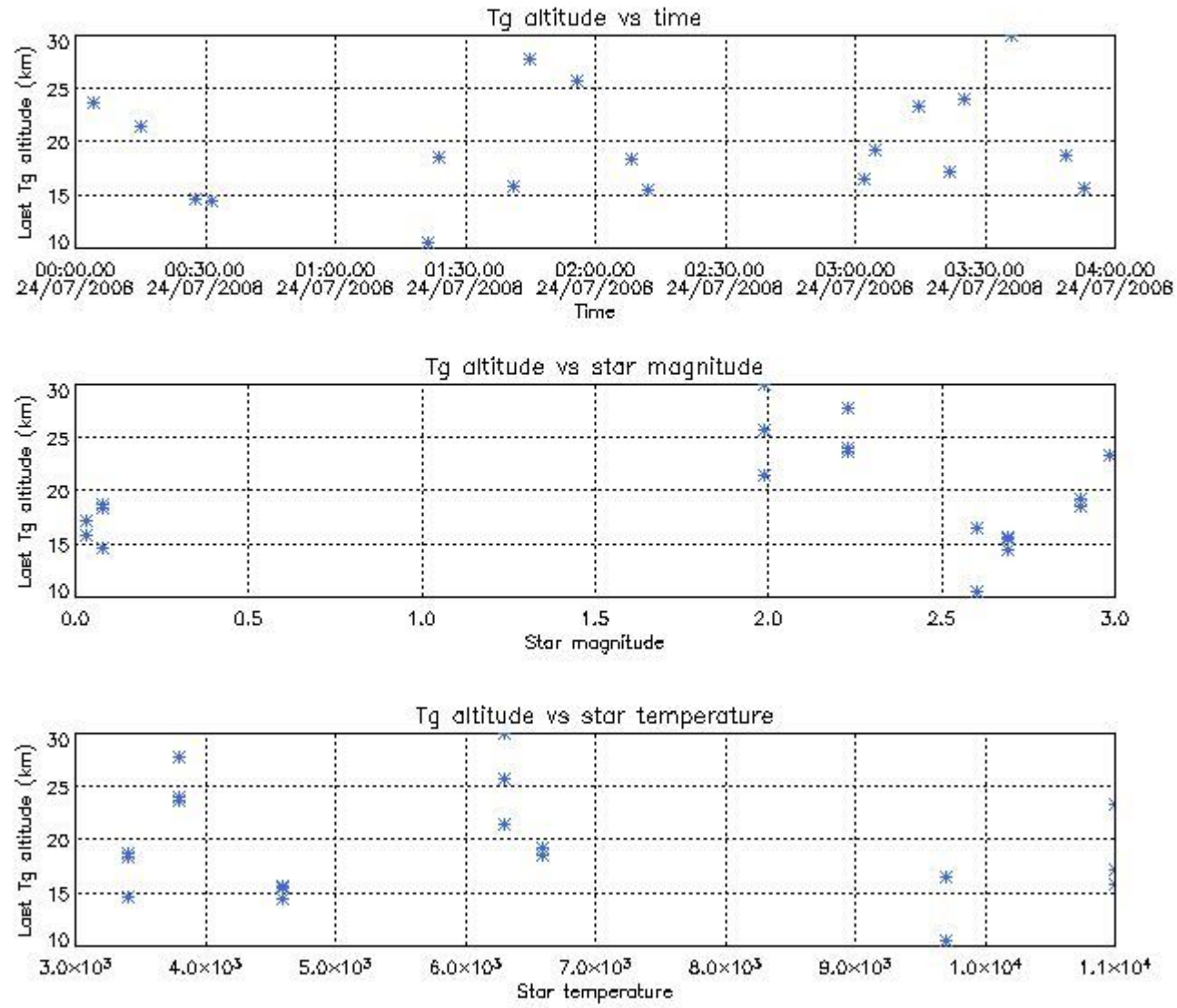
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



Tangent altitude at which the star is lost

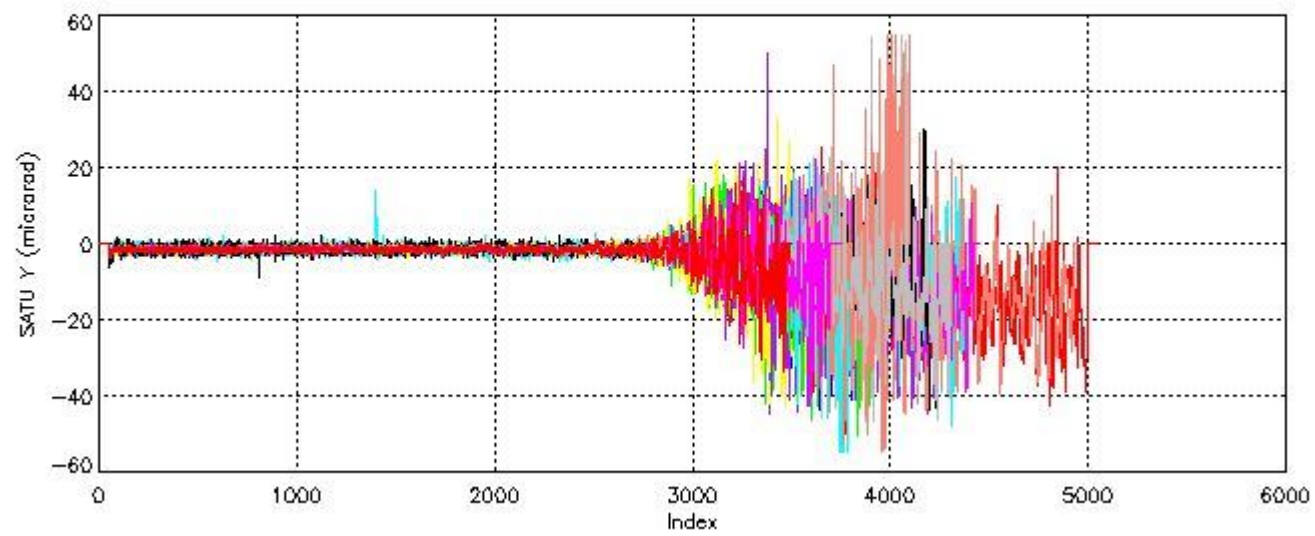
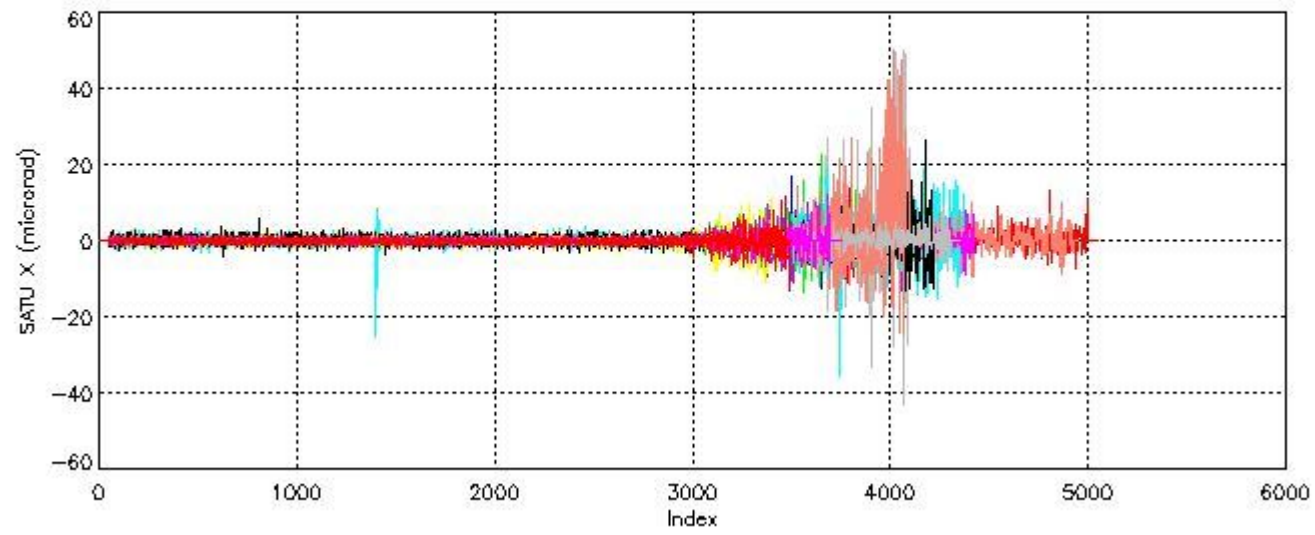


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.0069388	-1.4212	0.068789	-1.4028
St. deviation:	0.45769	0.61062	0.52000	0.67512
Maximum:	5.7000	2.1000	4.5000	3.5000
Minimum:	-4.1000	-8.8000	-4.6000	-6.5000

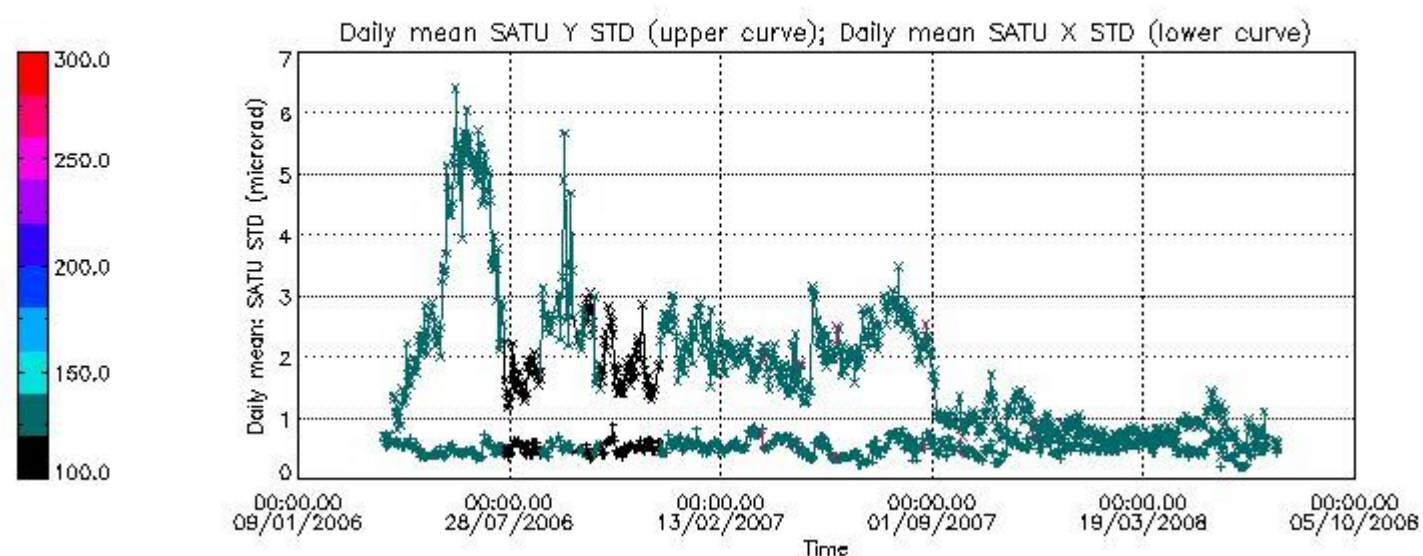
Number of data:	18600.	18600.	15600.	15600.
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### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

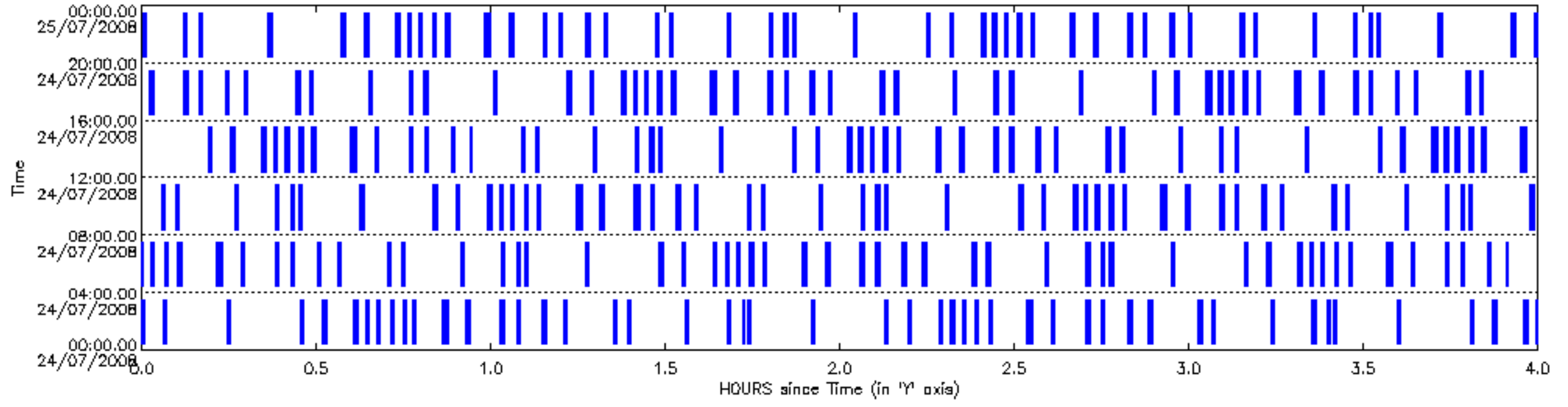


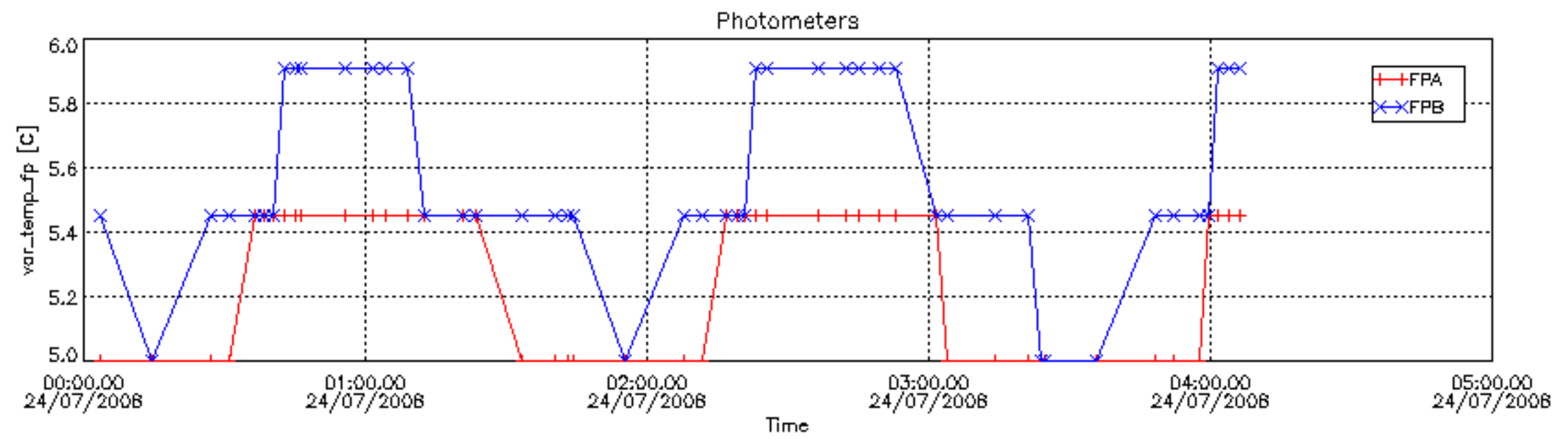
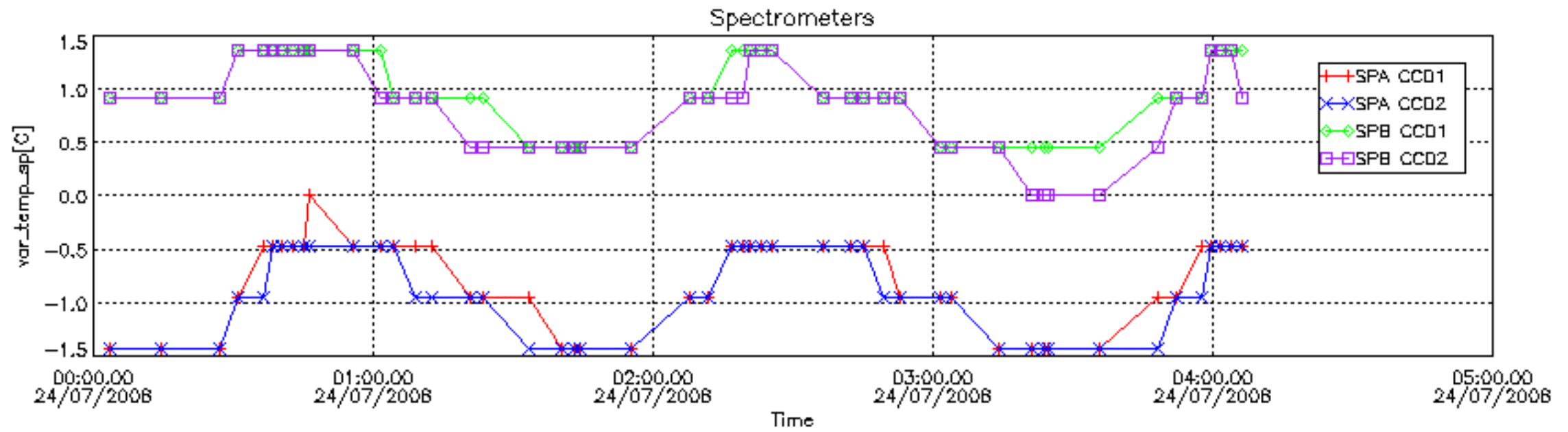
### 8. Auxiliary Data Files used for the production reported in section 2.4

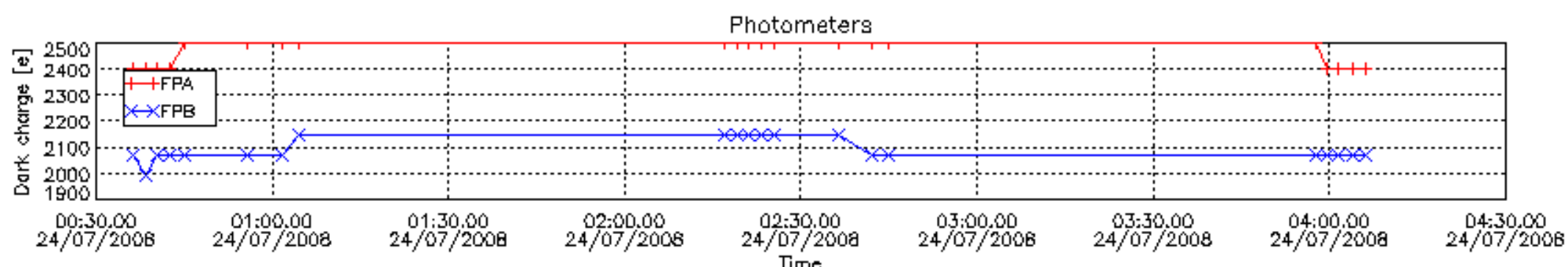
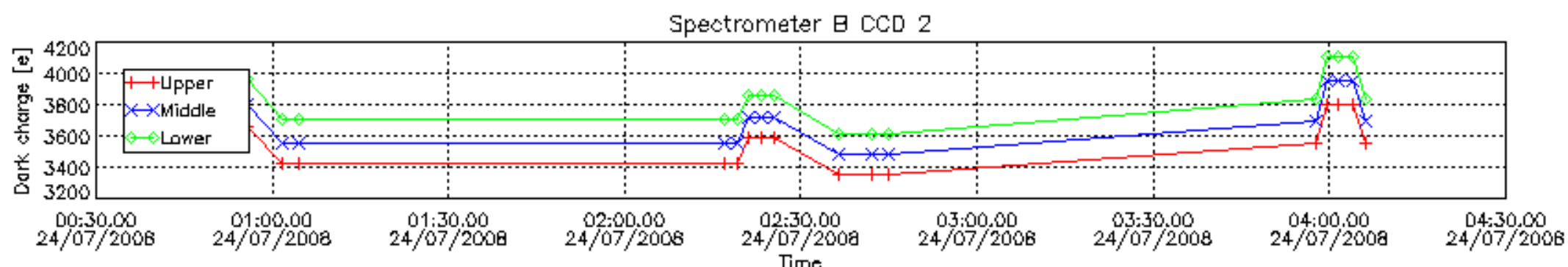
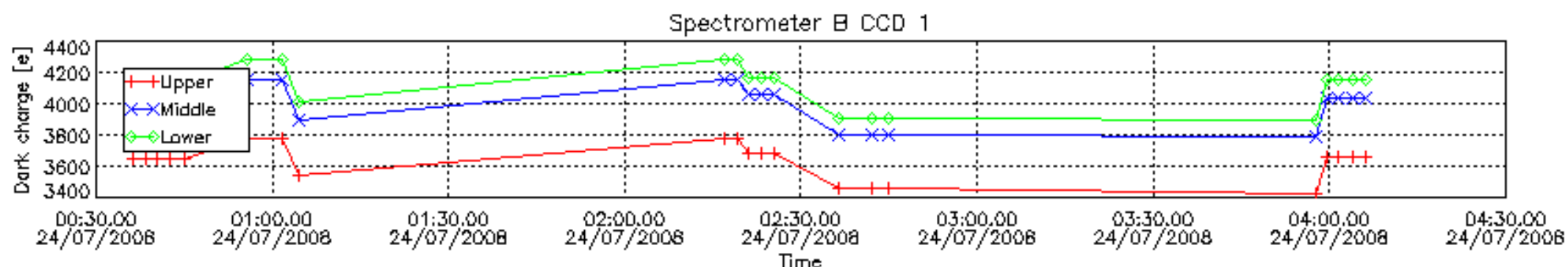
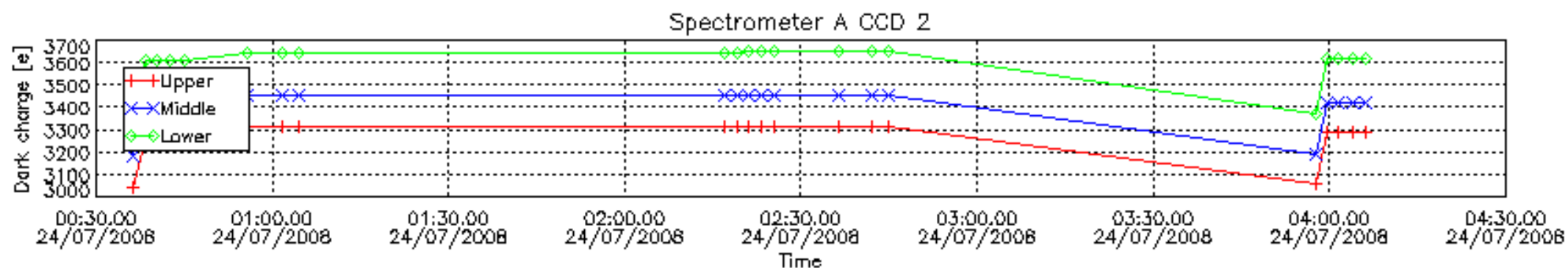
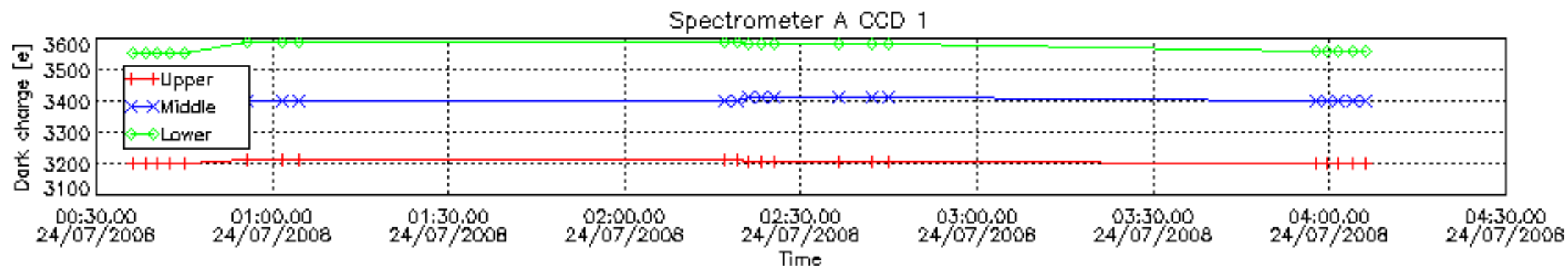
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	24-JUL-2008 00:03:33
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20080711_132227_20080708_000000_20100101_000000	1	24-JUL-2008 00:03:33
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	24-JUL-2008 00:03:33
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	24-JUL-2008 00:03:33
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	24-JUL-2008 00:03:33
ECMWF_FILE	AUX_ECF_AXNECM20080723_072114_20080723_210000_20080724_090000	1	24-JUL-2008 00:03:33
ECMWF_FILE	AUX_ECF_AXNECM20080723_190114_20080724_030000_20080724_150000	42	24-JUL-2008 03:48:17
OPTIONAL_ECMWF_FILE	MISSING	1	24-JUL-2008 00:03:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080723_211903_000057382070_00329_33449_6009.N1	1	24-JUL-2008 00:03:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080723_230000_000060572070_00330_33450_6010.N1	10	24-JUL-2008 00:46:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080724_004616_000051012070_00331_33451_6011.N1	27	24-JUL-2008 02:20:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20080724_021635_000044632070_00332_33452_6012.N1	42	24-JUL-2008 03:48:17





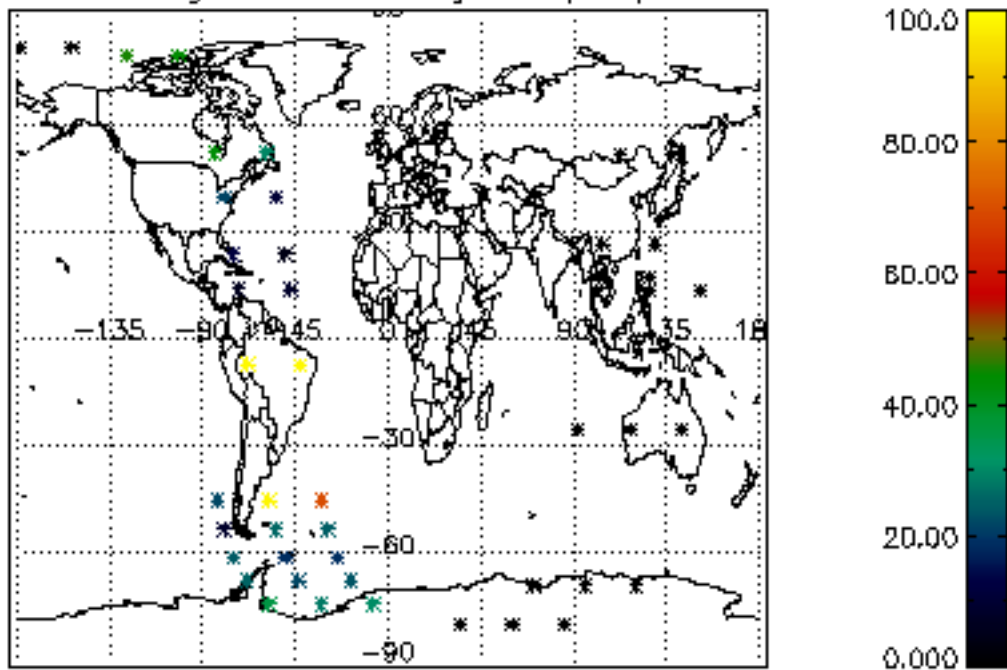




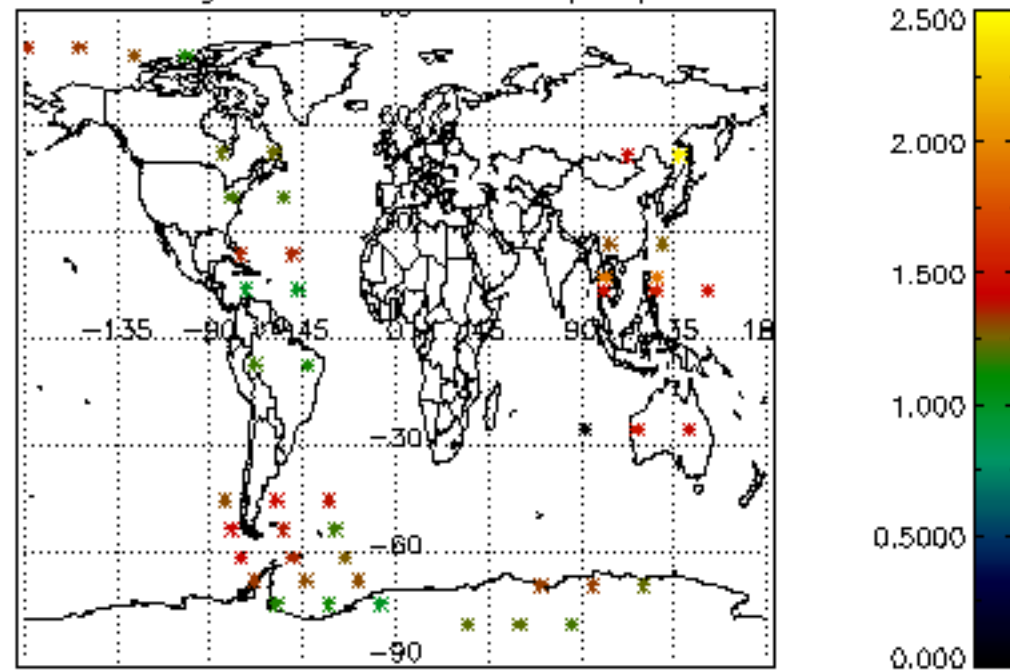




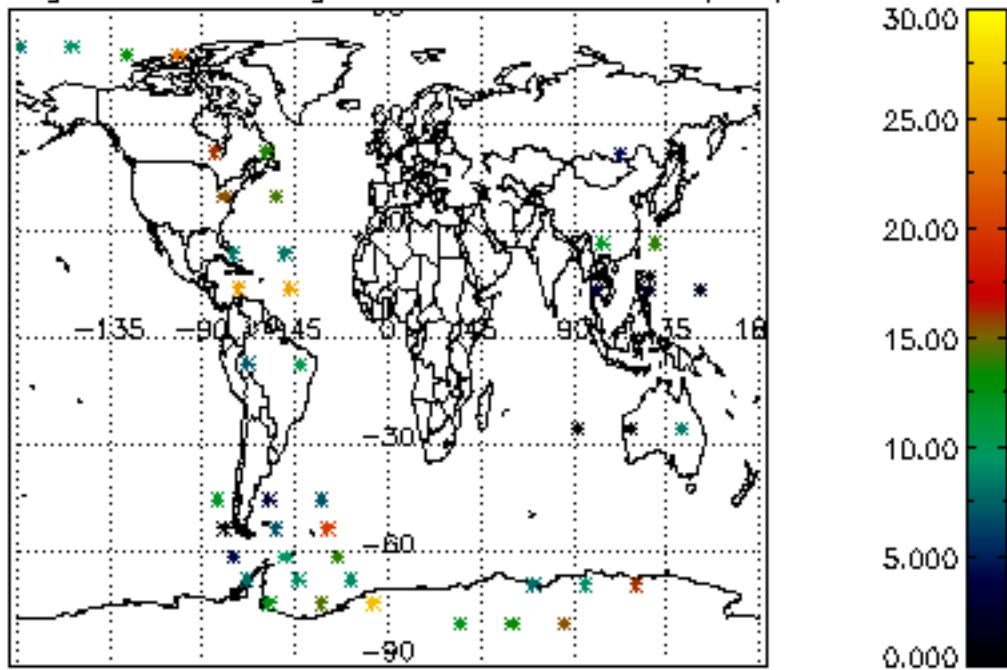
Percentage of cosmic ray hits per profile



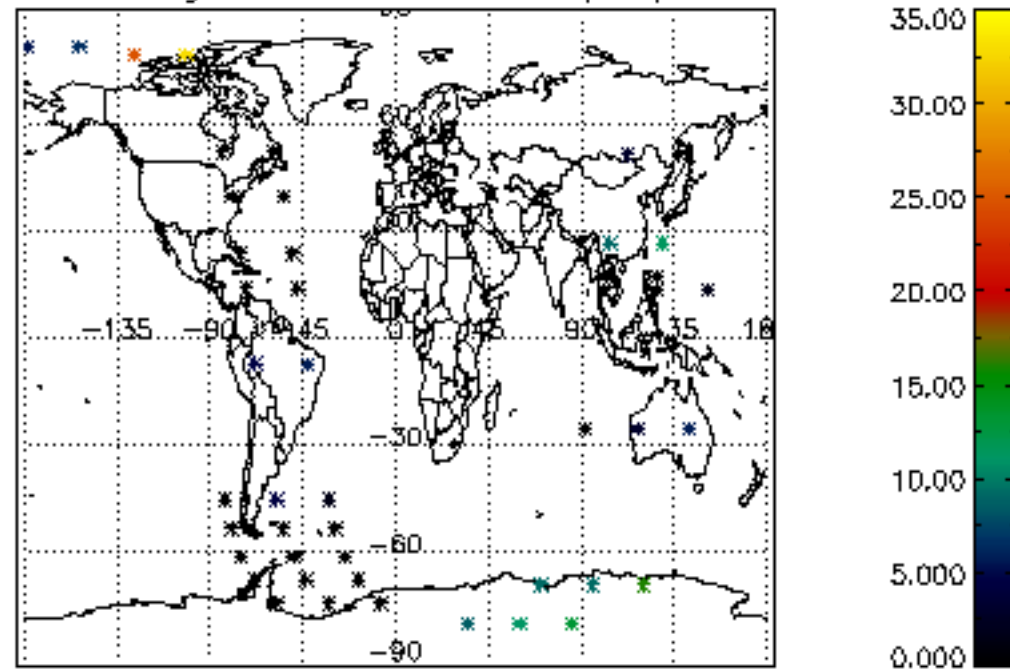
Percentage of datation errors per profile



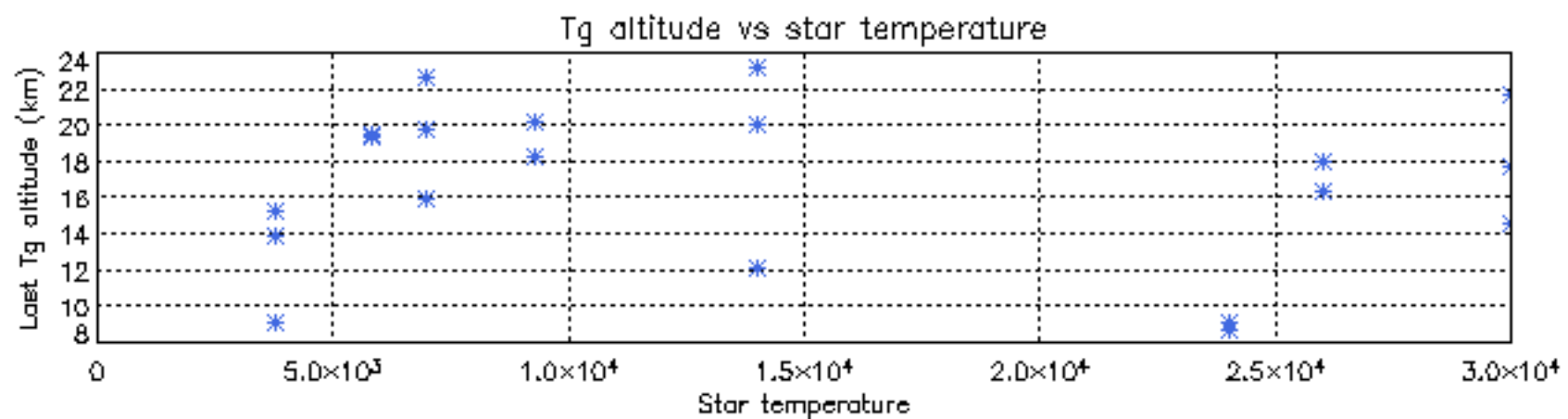
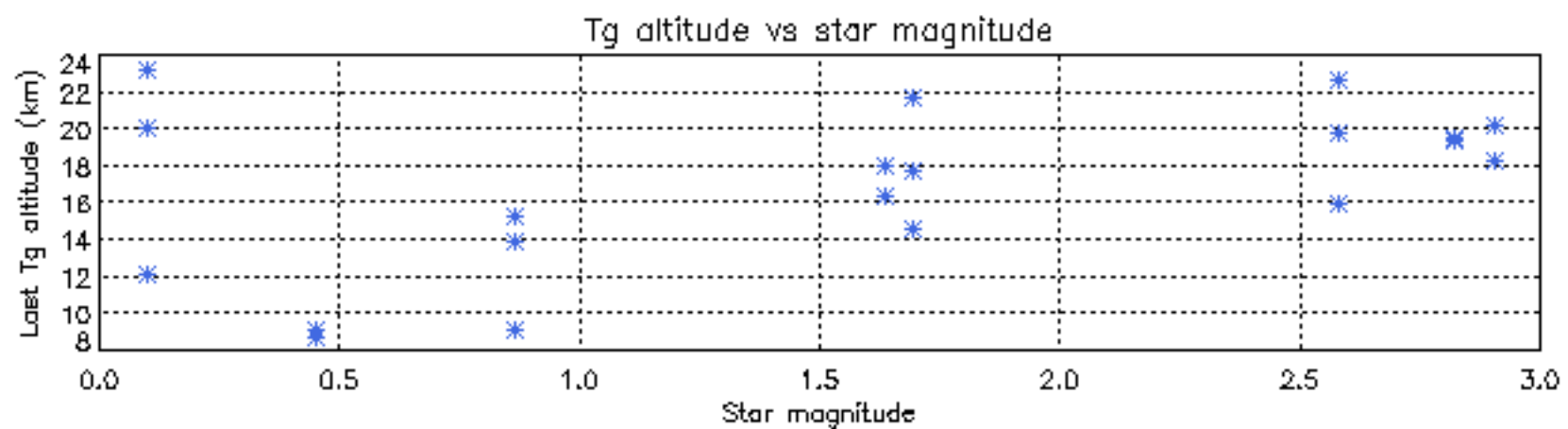
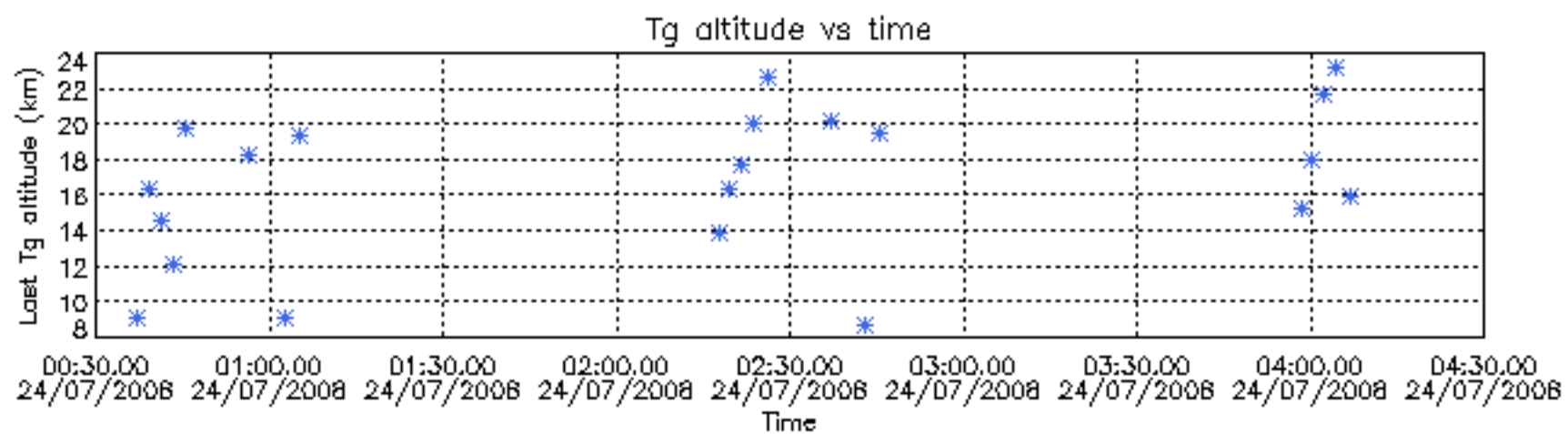
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

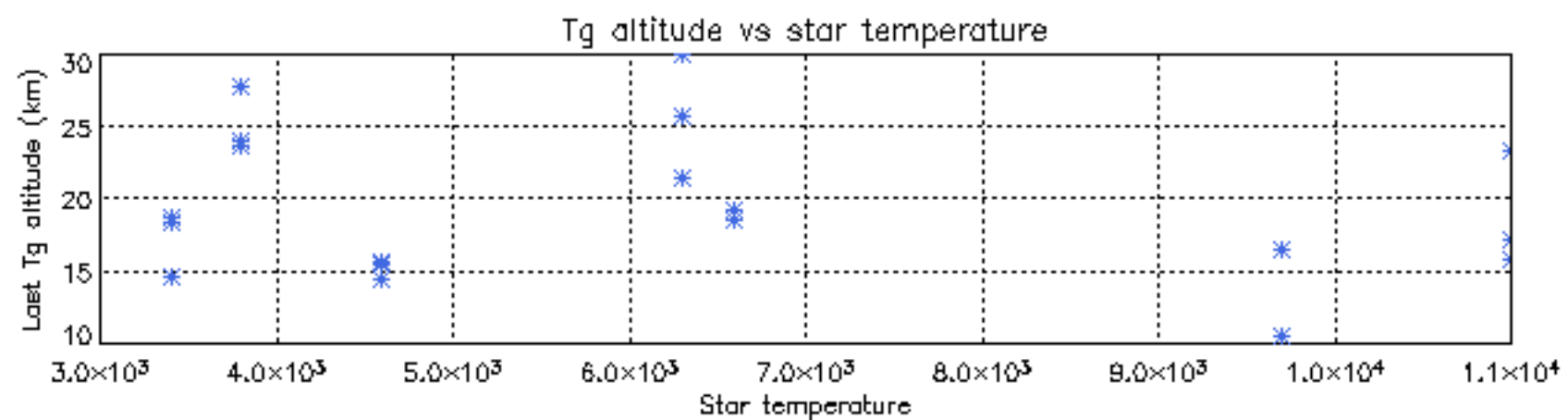
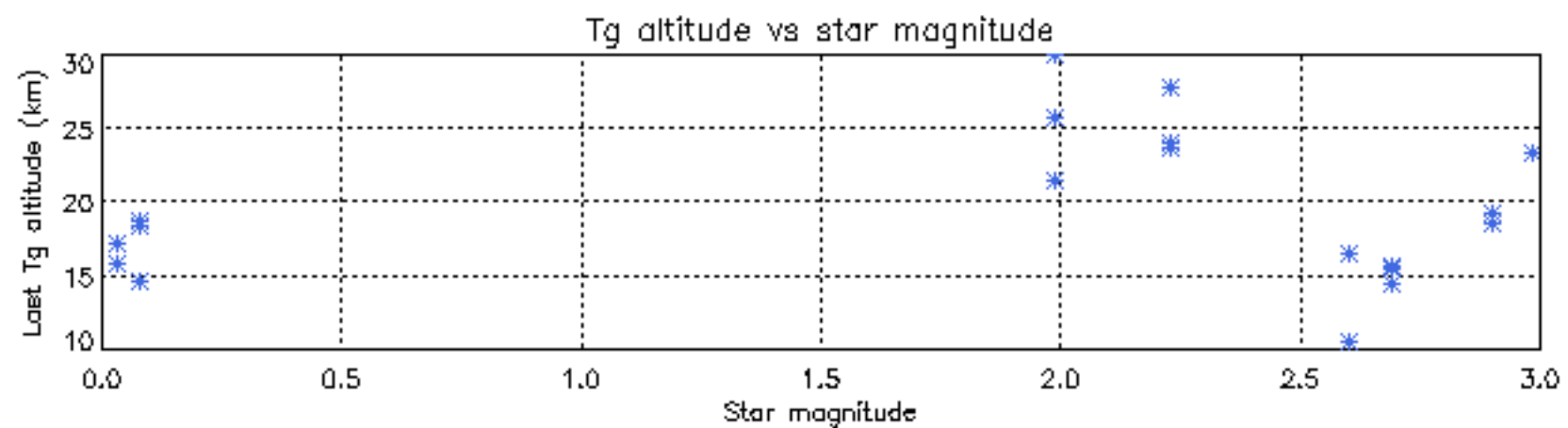
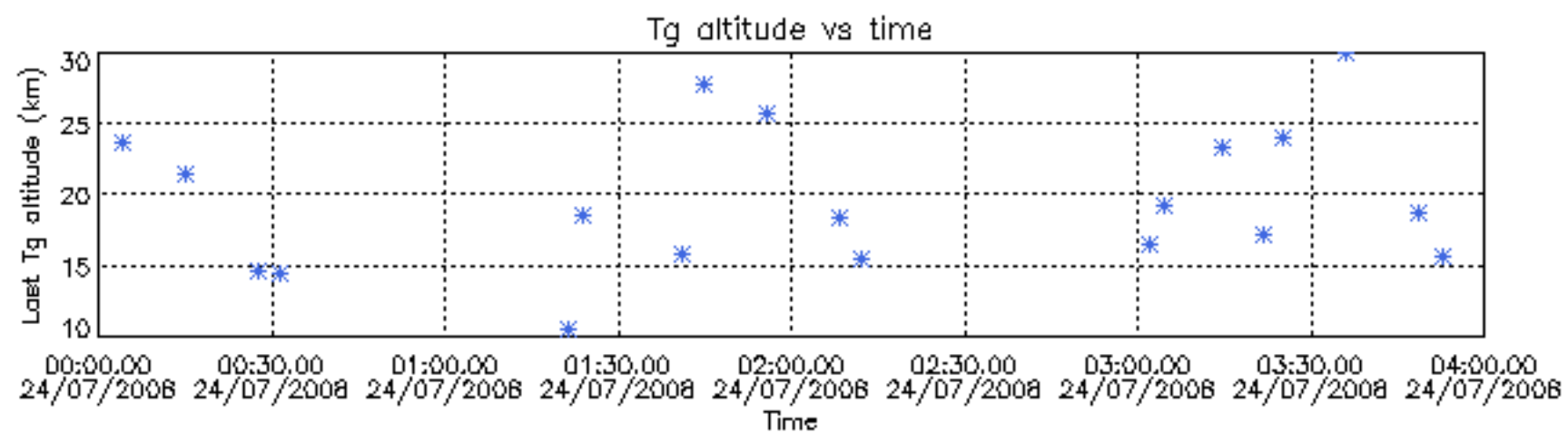


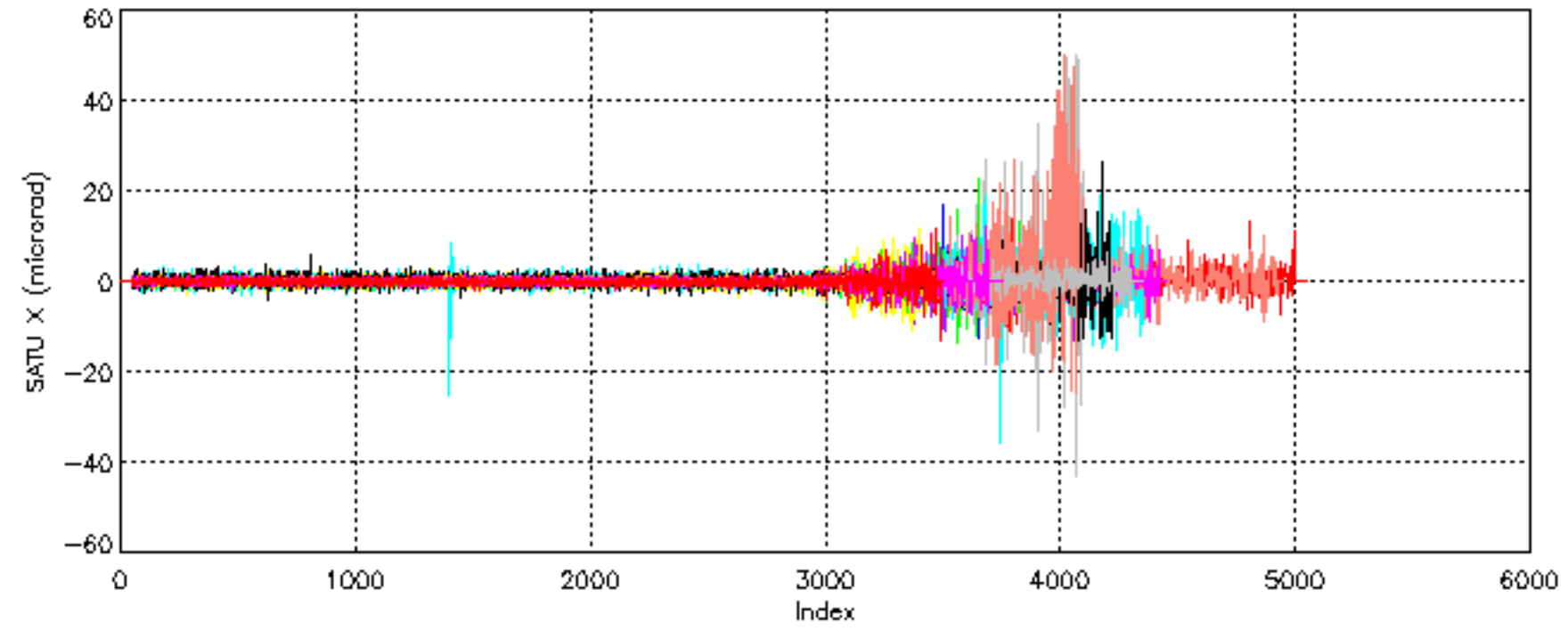
Tangent altitude at which the star is lost

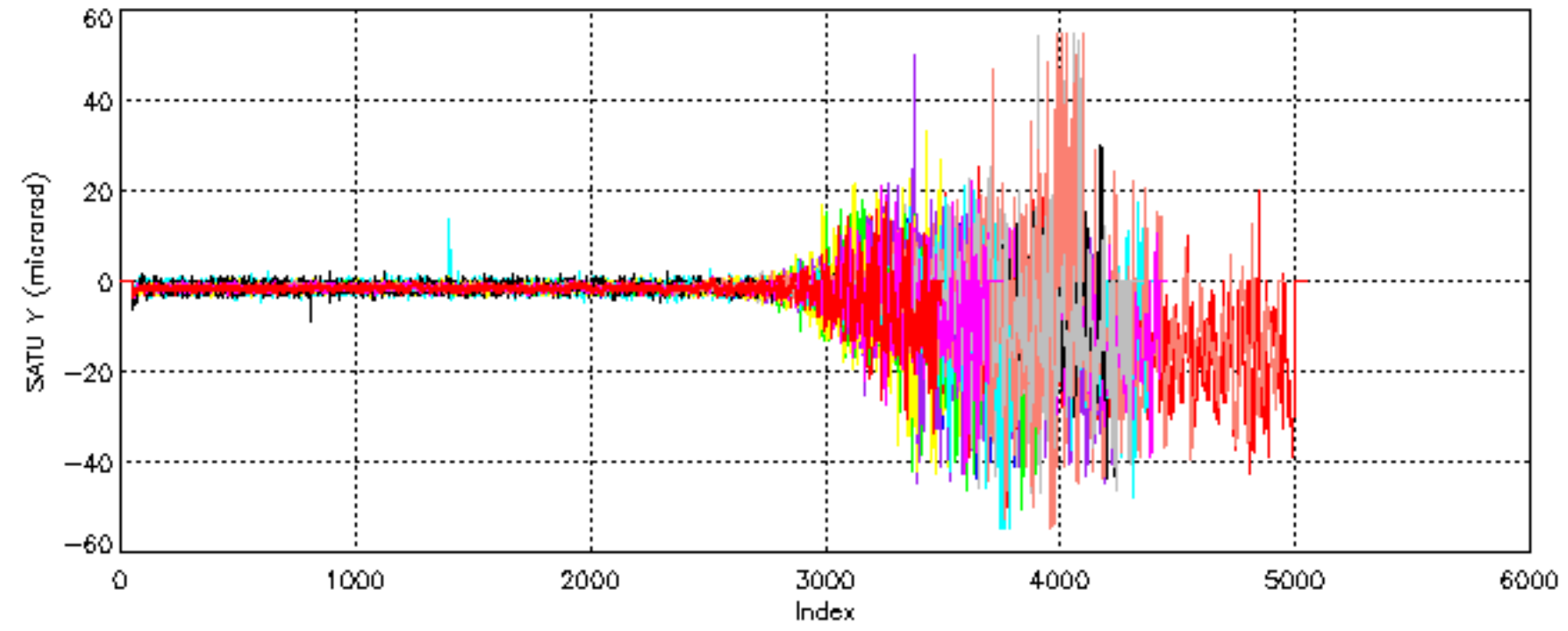




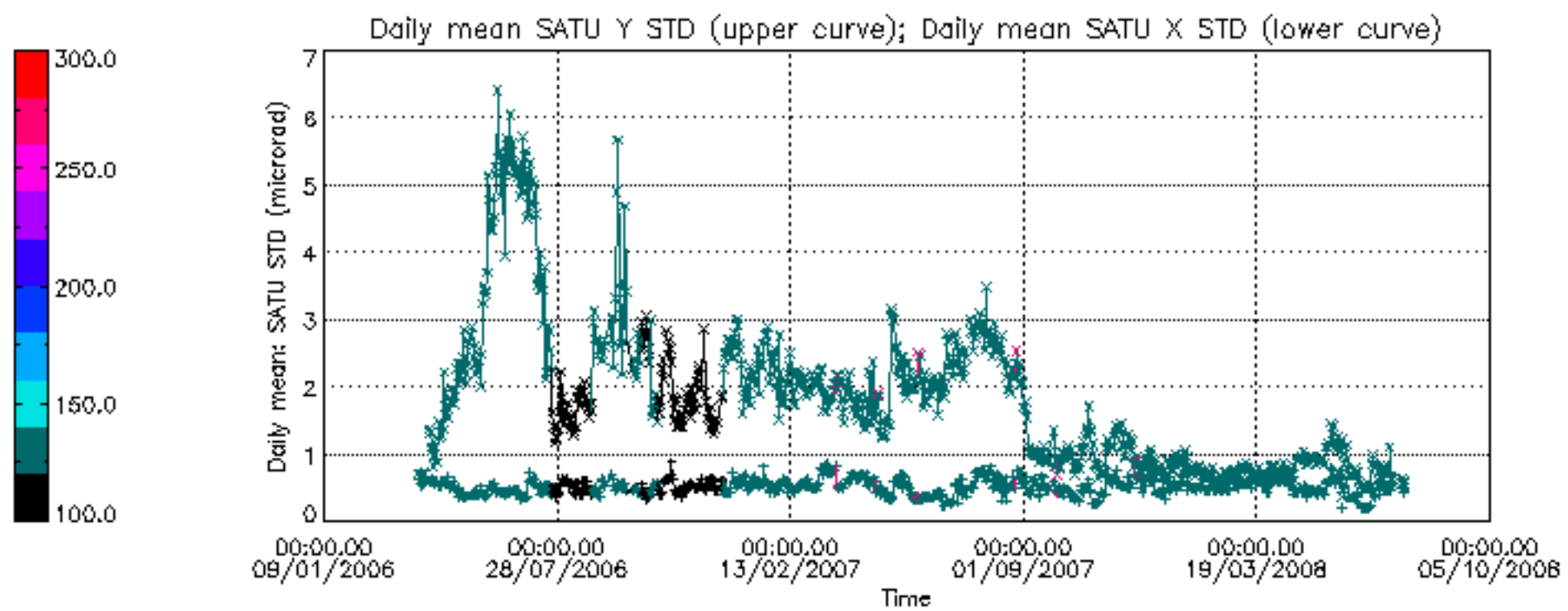
Tangent altitude at which the star is lost











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17; 3222.9; 13-JUL-2008 05:58:38; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;33297
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13; 2784.6; 24-JUL-2008 00:03:33; Bright; 34.0; 69; 33Gam Dra ; 2.23; 3800;occ; 68; 0;33451
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