

# GOMOS Daily Report 26-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	28JUL2007 05:42:47
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (26JUL2007 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (27JUL2007 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)

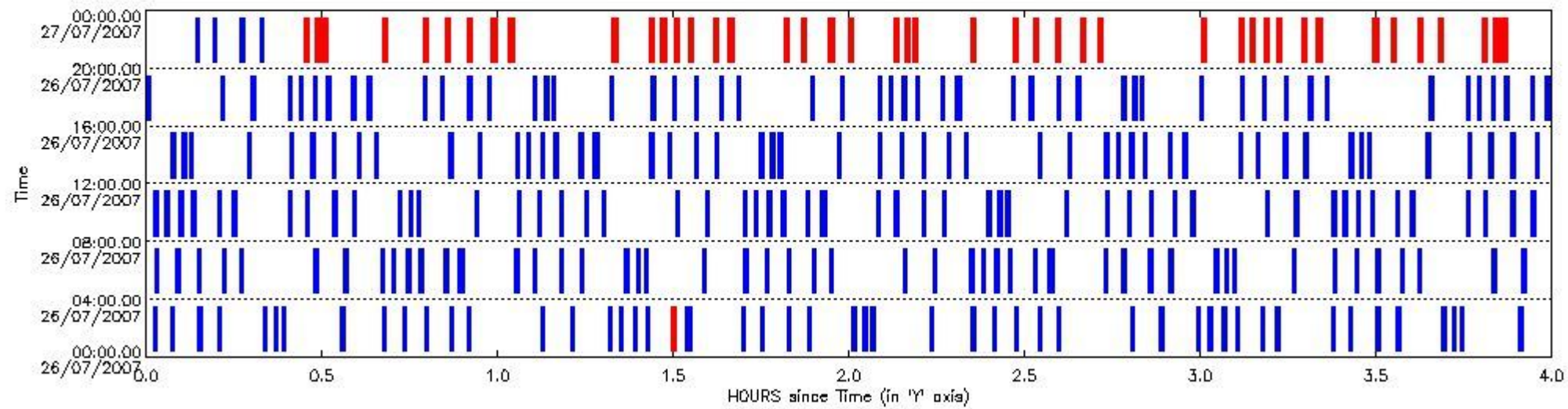
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

UTC start time	Star name	Star ID	Orbit
26-JUL-2007 01:29:32	AlpCol	108	28241
26-JUL-2007 20:26:59	20EpsSgr	38	28253
26-JUL-2007 20:28:54	34SigSgr	57	28253
26-JUL-2007 20:30:13	41PiSgr	155	28253
26-JUL-2007 20:40:14	17ZetAql	168	28253
26-JUL-2007 20:47:18	3AlpLyr	5	28253
26-JUL-2007 20:50:57	33GamDra	69	28253
26-JUL-2007 20:54:42	14EtaDra	119	28253
26-JUL-2007 20:58:55	7BetUMi	60	28253
26-JUL-2007 21:01:52	1AlpUMi	49	28253
26-JUL-2007 21:19:32	12BetTau	28	28253
26-JUL-2007 21:25:55	24GamOri	27	28253
26-JUL-2007 21:27:51	46EpsOri	30	28253
26-JUL-2007 21:30:11	19BetOri	7	28253
26-JUL-2007 21:32:28	11AlpLep	101	28253

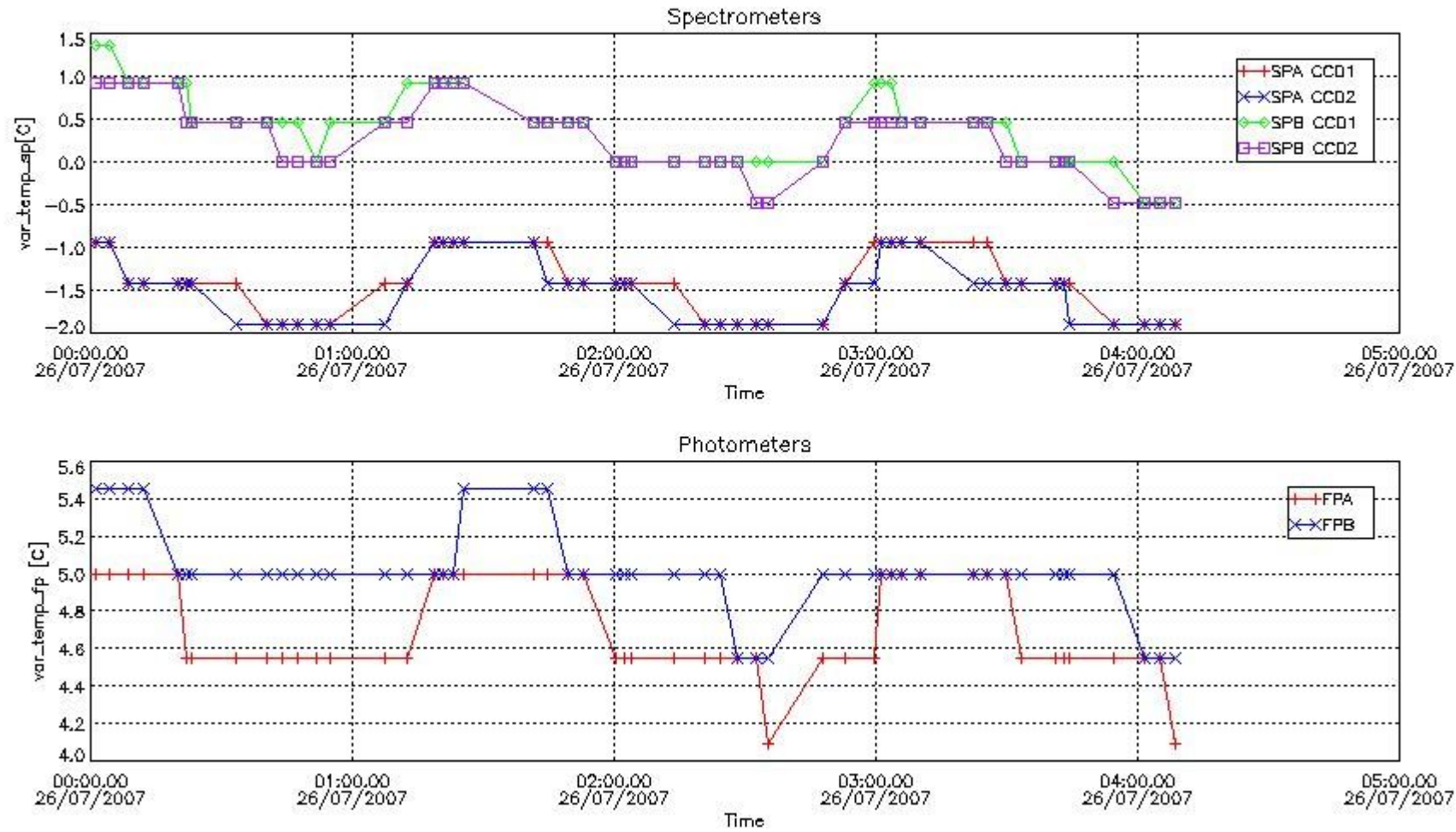
26-JUL-2007 21:36:45	AlpCol	108	28253
26-JUL-2007 21:39:13	DSA1061	0	28253
26-JUL-2007 21:48:52	AlpHyi	143	28254
26-JUL-2007 21:51:52	BetHyi	135	28254
26-JUL-2007 21:56:28	AlpTuc	148	28254
26-JUL-2007 21:59:55	AlpPav	45	28254
26-JUL-2007 22:07:35	20EpsSgr	38	28254
26-JUL-2007 22:09:30	34SigSgr	57	28254
26-JUL-2007 22:10:49	41PiSgr	155	28254
26-JUL-2007 22:20:50	17ZetAql	168	28254
26-JUL-2007 22:27:54	3AlpLyr	5	28254
26-JUL-2007 22:31:33	33GamDra	69	28254
26-JUL-2007 22:35:18	14EtaDra	119	28254
26-JUL-2007 22:39:32	7BetUMi	60	28254
26-JUL-2007 22:42:28	1AlpUMi	49	28254
26-JUL-2007 23:00:08	12BetTau	28	28254
26-JUL-2007 23:06:32	24GamOri	27	28254
26-JUL-2007 23:08:27	46EpsOri	30	28254
26-JUL-2007 23:10:48	19BetOri	7	28254
26-JUL-2007 23:13:04	11AlpLep	101	28254
26-JUL-2007 23:17:21	AlpCol	108	28254
26-JUL-2007 23:19:49	DSA1061	0	28254
26-JUL-2007 23:29:29	AlpHyi	143	28255
26-JUL-2007 23:32:28	BetHyi	135	28255
26-JUL-2007 23:37:05	AlpTuc	148	28255
26-JUL-2007 23:40:32	AlpPav	45	28255
26-JUL-2007 23:48:11	20EpsSgr	38	28255
26-JUL-2007 23:50:06	34SigSgr	57	28255
26-JUL-2007 23:51:25	41PiSgr	155	28255

#### 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_1PNPDE20070726_000107_000000412060_00131_28241_1014.N1	26-JUL-2007 00:01:07	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	28241	No
2	GOM_TRA_1PNPDE20070726_000410_000000372060_00131_28241_1015.N1	26-JUL-2007 00:04:10	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	28241	No
3	GOM_TRA_1PNPDE20070726_000844_000000422060_00131_28241_1016.N1	26-JUL-2007 00:08:44	Straylight	42.000	148	Alp Tuc	2.8780	4100.0	84	28241	No
4	GOM_TRA_1PNPDE20070726_001213_000000402060_00131_28241_1017.N1	26-JUL-2007 00:12:13	Straylight	39.500	45	Alp Pav	1.9400	26000.	79	28241	No
5	GOM_TRA_1PNPDE20070726_001954_000000422060_00131_28241_1018.N1	26-JUL-2007 00:19:54	Bright	41.500	38	20Eps Sgr	1.8360	11000.	83	28241	No
6	GOM_TRA_1PNPDE20070726_002149_000000382060_00131_28241_1019.N1	26-JUL-2007 00:21:49	Bright	38.000	57	34Sig Sgr	2.0660	26000.	76	28241	No
7	GOM_TRA_1PNPDE20070726_002309_000000382060_00131_28241_1020.N1	26-JUL-2007 00:23:09	Bright	37.500	155	41Pi Sgr	2.9000	6600.0	75	28241	No
8	GOM_TRA_1PNPDE20070726_003312_000000362060_00131_28241_1021.N1	26-JUL-2007 00:33:12	Bright	35.500	168	17Zet Aql	2.9860	11000.	71	28241	No
9	GOM_TRA_1PNPDE20070726_004016_000000362060_00131_28241_1022.N1	26-JUL-2007 00:40:16	Bright	36.000	5	3Alp Lyr	0.033000	11000.	72	28241	No
10	GOM_TRA_1PNPDE20070726_004354_000000332060_00131_28241_1023.N1	26-JUL-2007 00:43:54	Bright	33.000	69	33Gam Dra	2.2310	3800.0	66	28241	No
11	GOM_TRA_1PNPDE20070726_004736_000000362060_00131_28241_1024.N1	26-JUL-2007 00:47:36	Bright	35.500	119	14Eta Dra	2.7270	4700.0	71	28241	No
12	GOM_TRA_1PNPDE20070726_005150_000000362060_00131_28241_1025.N1	26-JUL-2007 00:51:50	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	28241	No
13	GOM_TRA_1PNPDE20070726_005450_000000332060_00131_28241_1026.N1	26-JUL-2007 00:54:50	Bright	32.500	49	1Alp UMi	1.9900	6300.0	65	28241	No
14	GOM_TRA_1PNPDE20070726_010726_000000382060_00131_28241_1027.N1	26-JUL-2007 01:07:26	Bright	38.000	6	13Alp Aur	0.080000	3400.0	76	28241	No
15	GOM_TRA_1PNPDE20070726_011228_000000412060_00131_28241_1028.N1	26-JUL-2007 01:12:28	Bright	40.500	28	12Bet Tau	1.6500	15200.	81	28241	No
16	GOM_TRA_1PNPDE20070726_011849_000000362060_00131_28241_1029.N1	26-JUL-2007 01:18:49	Dark	36.000	27	24Gam Ori	1.6360	26000.	72	28241	No
17	GOM_TRA_1PNPDE20070726_012045_000000352060_00131_28241_1030.N1	26-JUL-2007 01:20:45	Dark	35.000	30	46Eps Ori	1.6940	30000.	70	28241	No
18	GOM_TRA_1PNPDE20070726_012304_000000412060_00131_28241_1031.N1	26-JUL-2007 01:23:04	Dark	41.000	7	19Bet Ori	0.10000	14000.	82	28241	No
19	GOM_TRA_1PNPDE20070726_012522_000000392060_00131_28241_1150.N1	26-JUL-2007 01:25:22	Dark	38.500	101	11Alp Lep	2.5820	7000.0	77	28241	No
20	GOM_TRA_1PNPDE20070726_014143_000000392060_00132_28242_1151.N1	26-JUL-2007 01:41:43	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	28242	No
21	GOM_TRA_1PNPDE20070726_014446_000000382060_00132_28242_1152.N1	26-JUL-2007 01:44:46	Dark	37.500	135	Bet Hyi	2.8200	5800.0	75	28242	No
22	GOM_TRA_1PNPDE20070726_014920_000000422060_00132_28242_1153.N1	26-JUL-2007 01:49:20	Straylight	42.000	148	Alp Tuc	2.8780	4100.0	84	28242	No
23	GOM_TRA_1PNPDE20070726_015249_000000402060_00132_28242_1154.N1	26-JUL-2007 01:52:49	Straylight	39.500	45	Alp Pav	1.9400	26000.	79	28242	No
24	GOM_TRA_1PNPDE20070726_020030_000000422060_00132_28242_1155.N1	26-JUL-2007 02:00:30	Bright	42.000	38	20Eps Sgr	1.8360	11000.	84	28242	No
25	GOM_TRA_1PNPDE20070726_020225_000000392060_00132_28242_1156.N1	26-JUL-2007 02:02:25	Bright	38.500	57	34Sig Sgr	2.0660	26000.	77	28242	No

26	GOM_TRA_1PNPDE20070726_020345_000000382060_00132_28242_1157.N1	26-JUL-2007 02:03:45	Bright	38.000	155	41Pi Sgr	2.9000	6600.0	76	28242	No
27	GOM_TRA_1PNPDE20070726_021348_000000372060_00132_28242_1158.N1	26-JUL-2007 02:13:48	Bright	36.500	168	17Zet Aql	2.9860	11000.	73	28242	No
28	GOM_TRA_1PNPDE20070726_022052_000000412060_00132_28242_1159.N1	26-JUL-2007 02:20:52	Bright	40.500	5	3Alp Lyr	0.033000	11000.	81	28242	No
29	GOM_TRA_1PNPDE20070726_022430_000000342060_00132_28242_1160.N1	26-JUL-2007 02:24:30	Bright	33.500	69	33Gam Dra	2.2310	3800.0	67	28242	No
30	GOM_TRA_1PNPDE20070726_022813_000000342060_00132_28242_1161.N1	26-JUL-2007 02:28:13	Bright	34.000	119	14Eta Dra	2.7270	4700.0	68	28242	No
31	GOM_TRA_1PNPDE20070726_023226_000000332060_00132_28242_1162.N1	26-JUL-2007 02:32:26	Bright	33.000	60	7Bet UMi	2.0810	3950.0	66	28242	No
32	GOM_TRA_1PNPDE20070726_023526_000000332060_00132_28242_1163.N1	26-JUL-2007 02:35:26	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	28242	No
33	GOM_TRA_1PNPDE20070726_024802_000000402060_00132_28242_1333.N1	26-JUL-2007 02:48:02	Bright	39.500	6	13Alp Aur	0.080000	3400.0	79	28242	No
34	GOM_TRA_1PNPDE20070726_025304_000000412060_00132_28242_1334.N1	26-JUL-2007 02:53:04	Bright	41.000	28	12Bet Tau	1.6500	15200.	82	28242	No
35	GOM_TRA_1PNPDE20070726_025925_000000362060_00132_28242_1335.N1	26-JUL-2007 02:59:25	Dark	36.000	27	24Gam Ori	1.6360	26000.	72	28242	No
36	GOM_TRA_1PNPDE20070726_030121_000000362060_00132_28242_1336.N1	26-JUL-2007 03:01:21	Dark	36.000	30	46Eps Ori	1.6940	30000.	72	28242	No
37	GOM_TRA_1PNPDE20070726_030341_000000472060_00132_28242_1337.N1	26-JUL-2007 03:03:41	Dark	46.500	7	19Bet Ori	0.10000	14000.	93	28242	No
38	GOM_TRA_1PNPDE20070726_030558_000000412060_00132_28242_1338.N1	26-JUL-2007 03:05:58	Dark	40.500	101	11Alp Lep	2.5820	7000.0	81	28242	No
39	GOM_TRA_1PNPDE20070726_031016_000000392060_00132_28242_1339.N1	26-JUL-2007 03:10:16	Dark	38.500	108	Alp Col	2.6520	15200.	77	28242	No
40	GOM_TRA_1PNPDE20070726_032220_000000392060_00133_28243_1340.N1	26-JUL-2007 03:22:20	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	28243	No
41	GOM_TRA_1PNPDE20070726_032522_000000362060_00133_28243_1341.N1	26-JUL-2007 03:25:22	Dark	36.000	135	Bet Hyi	2.8200	5800.0	72	28243	No
42	GOM_TRA_1PNPDE20070726_032957_000000432060_00133_28243_1342.N1	26-JUL-2007 03:29:57	Straylight	43.000	148	Alp Tuc	2.8780	4100.0	86	28243	No
43	GOM_TRA_1PNPDE20070726_033325_000000412060_00133_28243_1343.N1	26-JUL-2007 03:33:25	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	28243	No
44	GOM_TRA_1PNPDE20070726_034107_000000492060_00133_28243_1344.N1	26-JUL-2007 03:41:07	Bright	49.000	38	20Eps Sgr	1.8360	11000.	98	28243	No
45	GOM_TRA_1PNPDE20070726_034301_000000372060_00133_28243_1345.N1	26-JUL-2007 03:43:01	Bright	37.000	57	34Sig Sgr	2.0660	26000.	74	28243	No
46	GOM_TRA_1PNPDE20070726_034421_000000382060_00133_28243_1346.N1	26-JUL-2007 03:44:21	Bright	38.000	155	41Pi Sgr	2.9000	6600.0	76	28243	No
47	GOM_TRA_1PNPDE20070726_035424_000000362060_00133_28243_1347.N1	26-JUL-2007 03:54:24	Bright	35.500	168	17Zet Aql	2.9860	11000.	71	28243	No
48	GOM_TRA_1PNPDE20070726_040128_000000392060_00133_28243_1348.N1	26-JUL-2007 04:01:28	Bright	38.500	5	3Alp Lyr	0.033000	11000.	77	28243	No
49	GOM_TRA_1PNPDE20070726_040506_000000362060_00133_28243_1349.N1	26-JUL-2007 04:05:06	Bright	36.000	69	33Gam Dra	2.2310	3800.0	72	28243	No
50	GOM_TRA_1PNPDE20070726_040849_000000332060_00133_28243_1350.N1	26-JUL-2007 04:08:49	Bright	32.500	119	14Eta Dra	2.7270	4700.0	65	28243	No

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



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

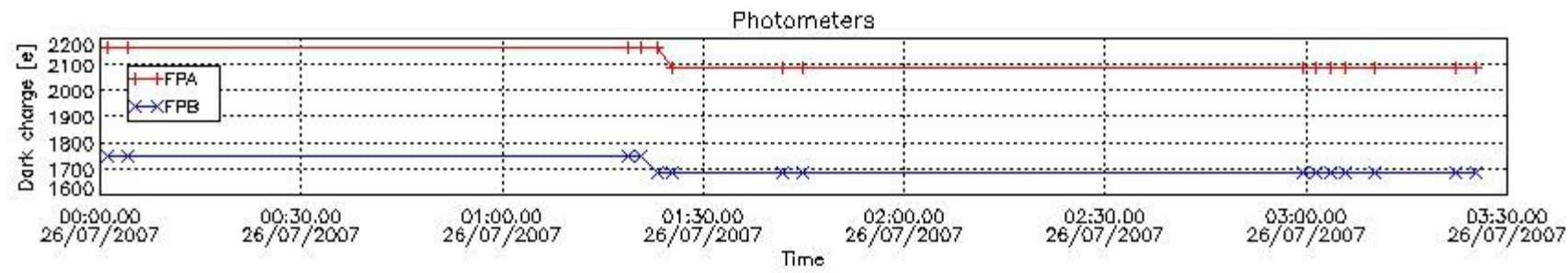
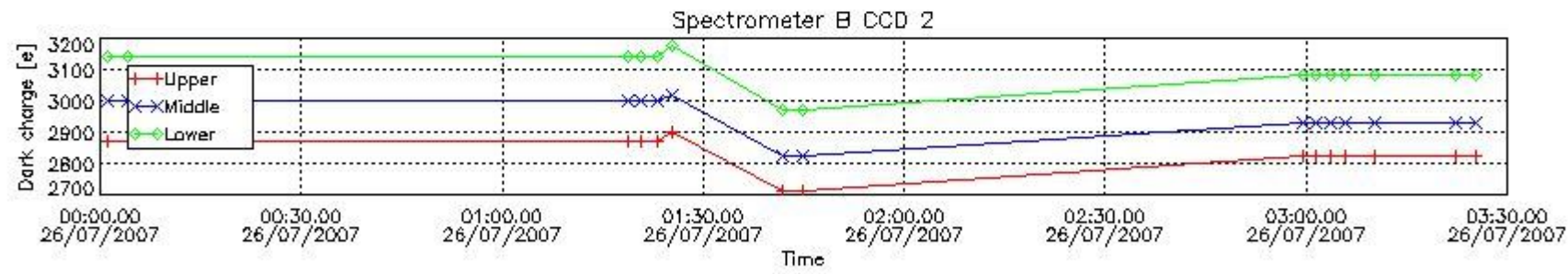
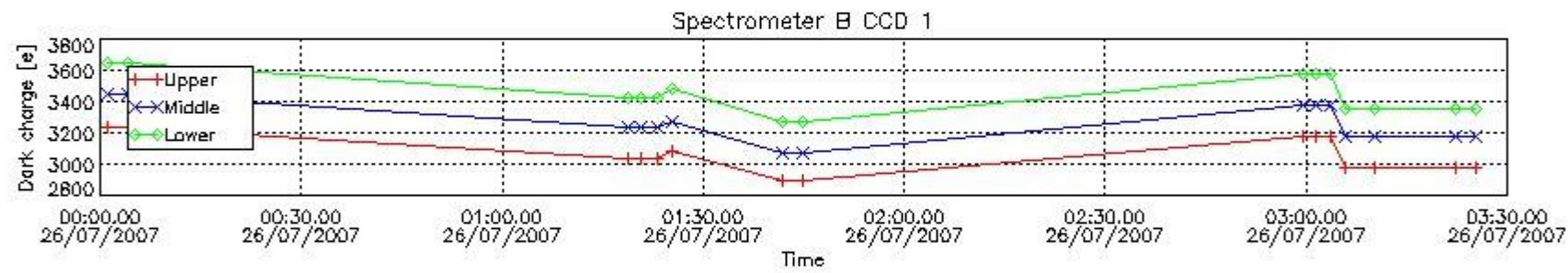
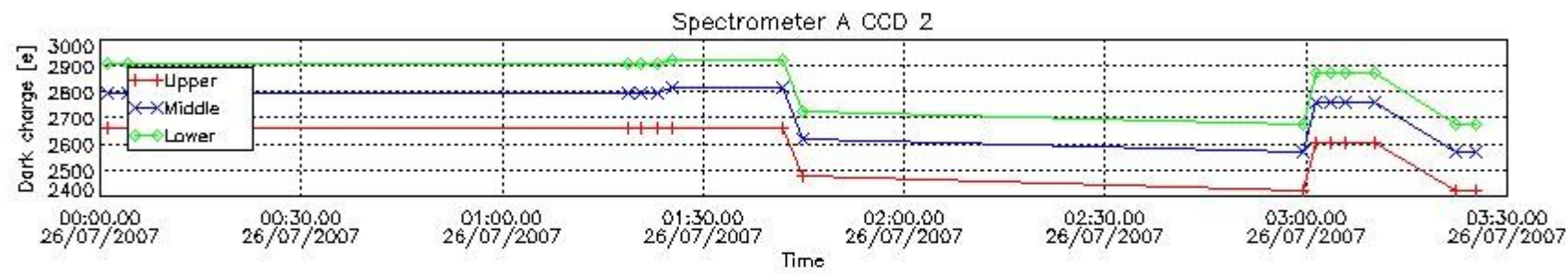
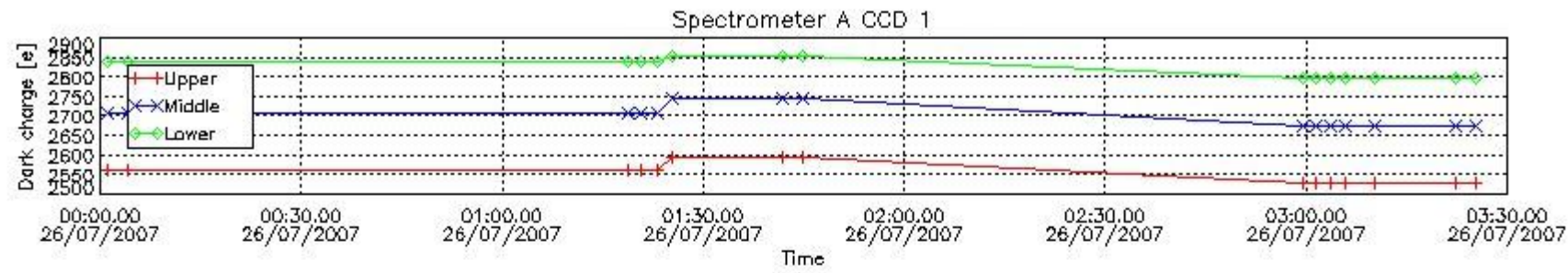
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





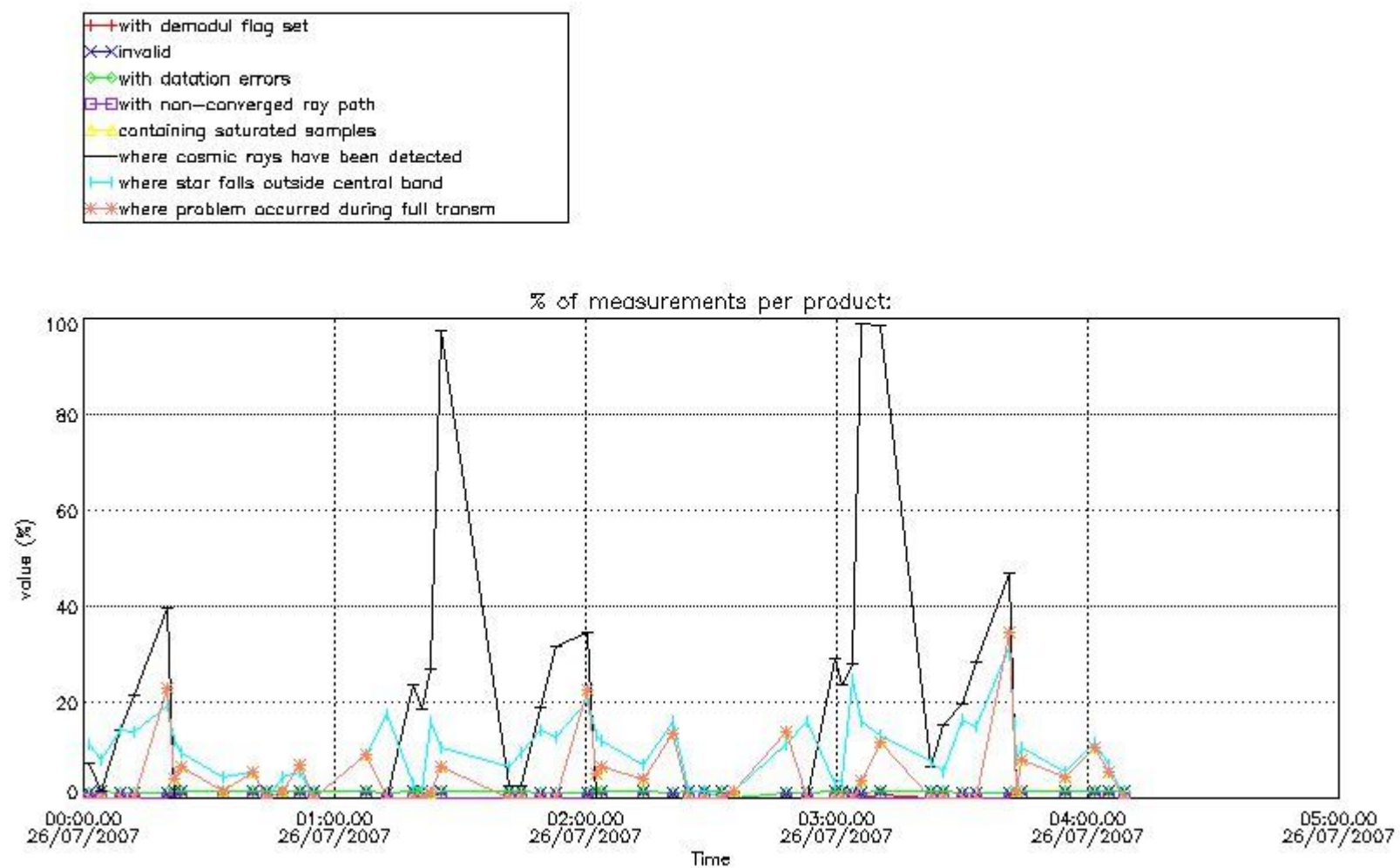
## 5. Demodulation flag and quality information monitoring

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:

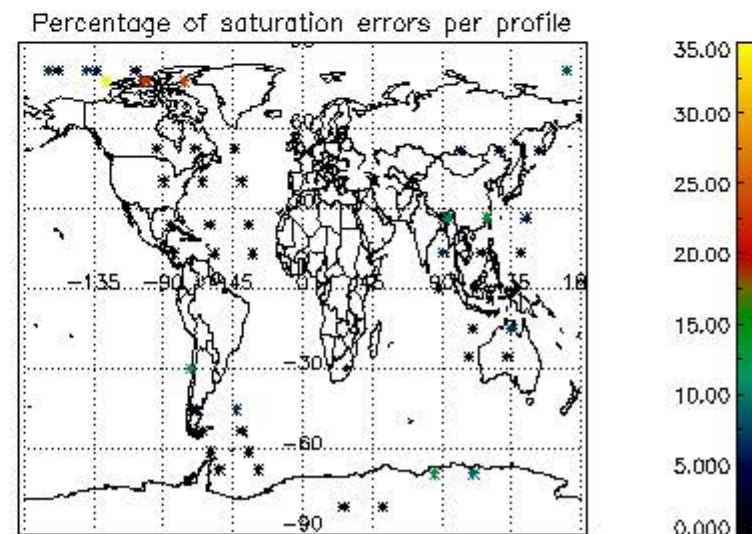
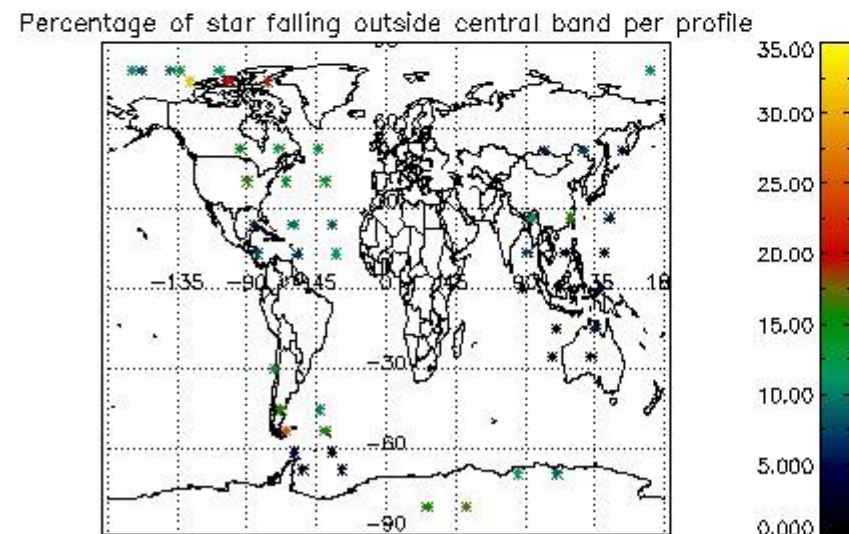
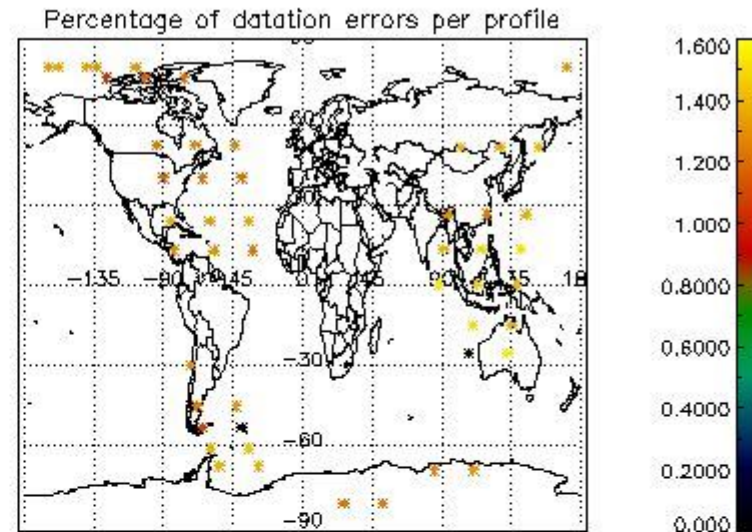
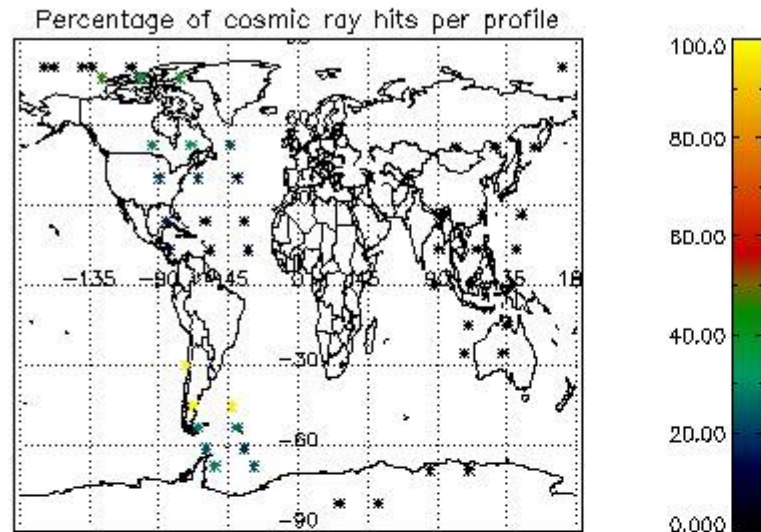
At least one measurement with demodulation flag set:	12.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 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)

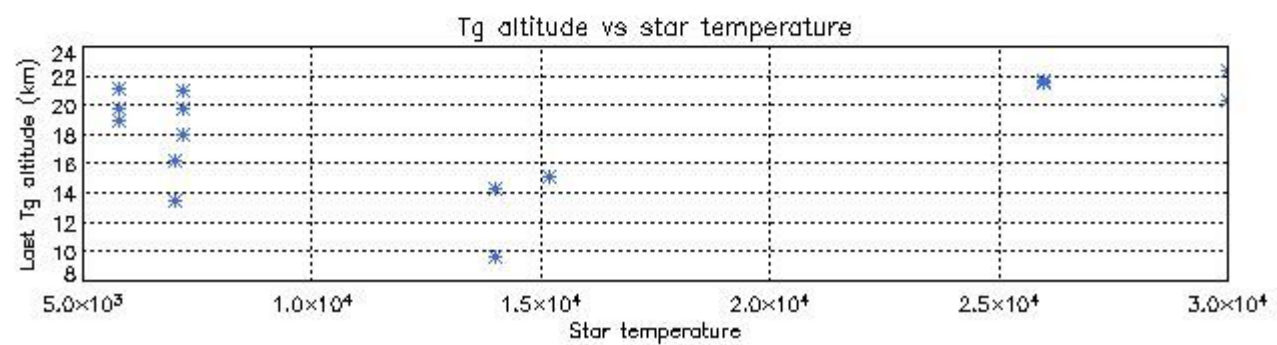
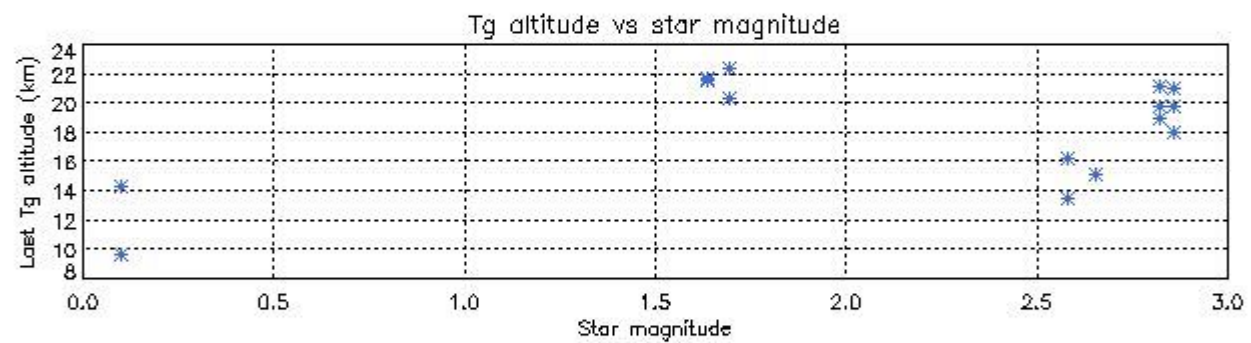
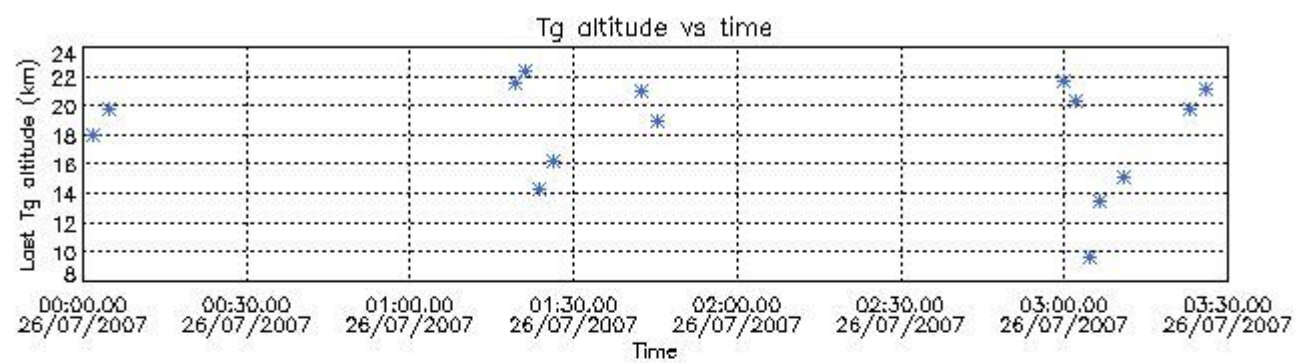
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	18.209	19.679	NaN
St. deviation:	3.7017	5.6041	NaN
Maximum:	22.361	28.989	NaN
Minimum:	9.5889	5.4600	NaN
Number of data:	15.000	29.000	NaN

### 6.2 Plot for DARK limb products

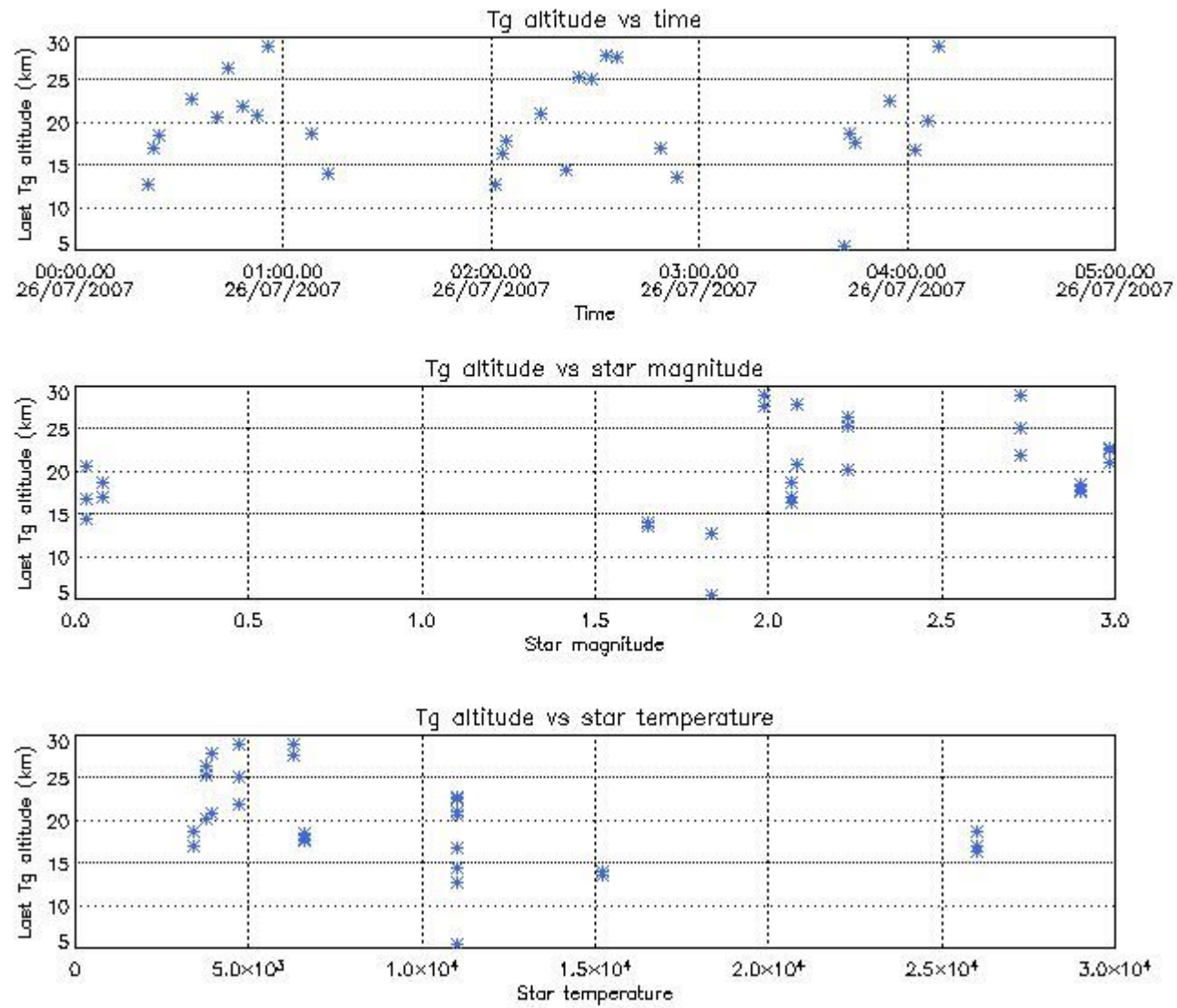


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost

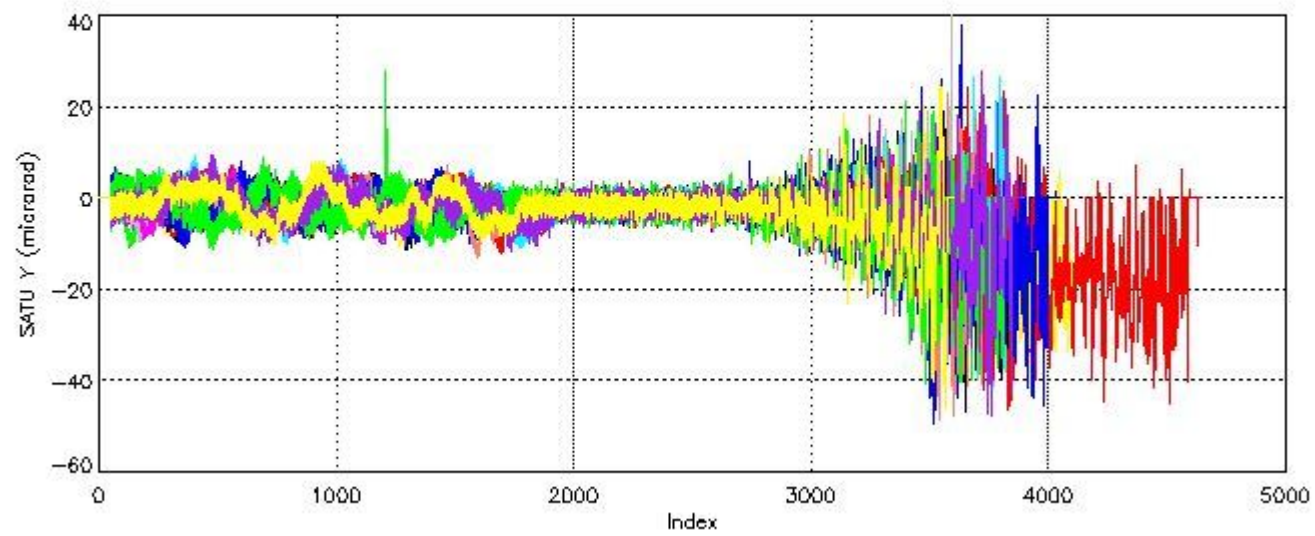
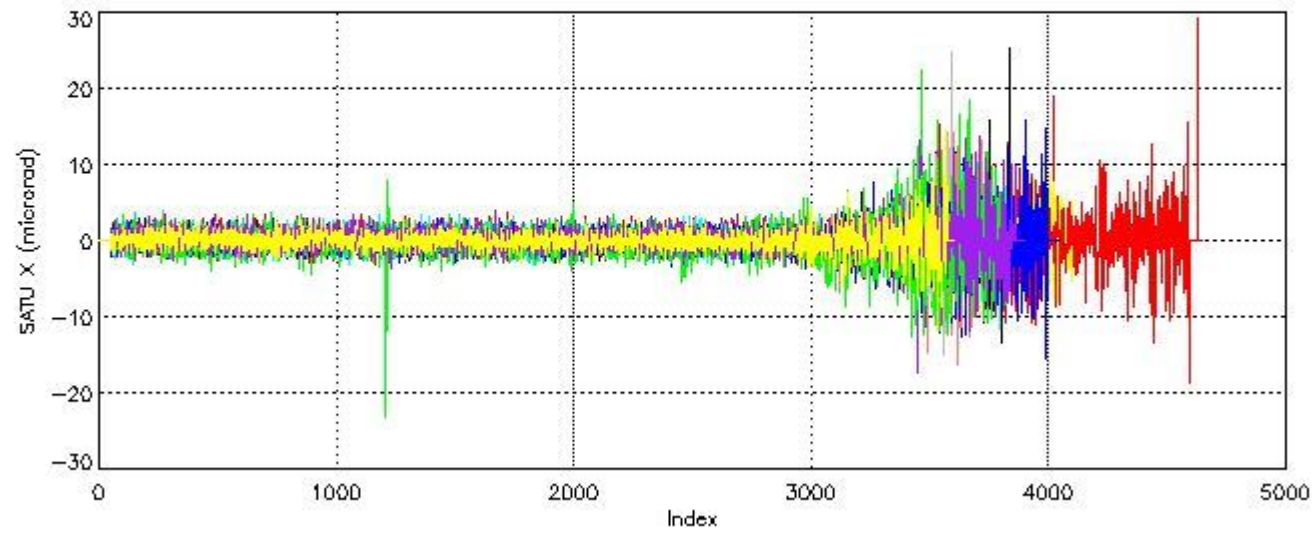


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.033908	-1.2997	0.057313	-0.92959
St. deviation:	0.73686	3.1019	0.68691	2.9608
Maximum:	3.9000	9.4000	5.7000	9.0000
Minimum:	-3.9000	-11.300	-5.5000	-13.300

Number of data:	13200.	13200.	24000.	24000.
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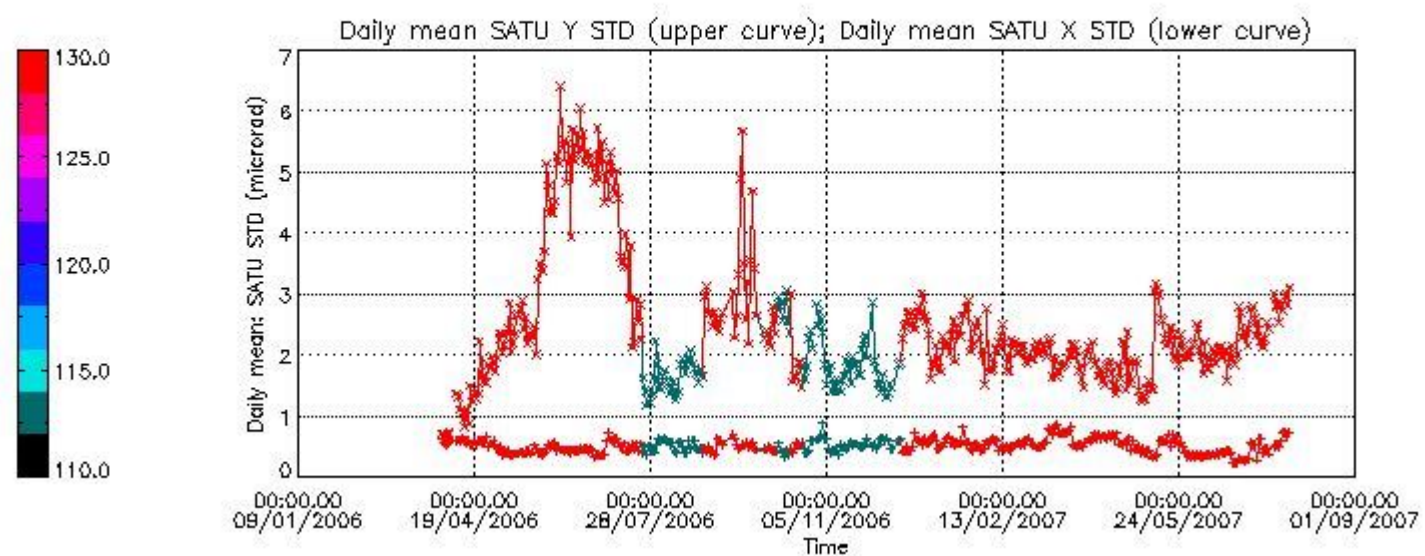
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

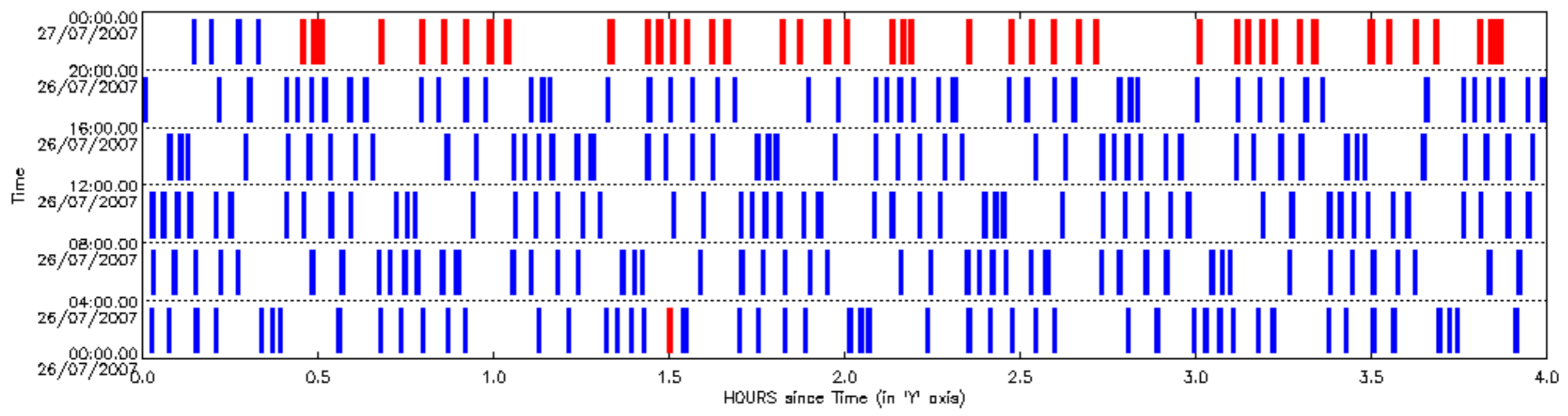


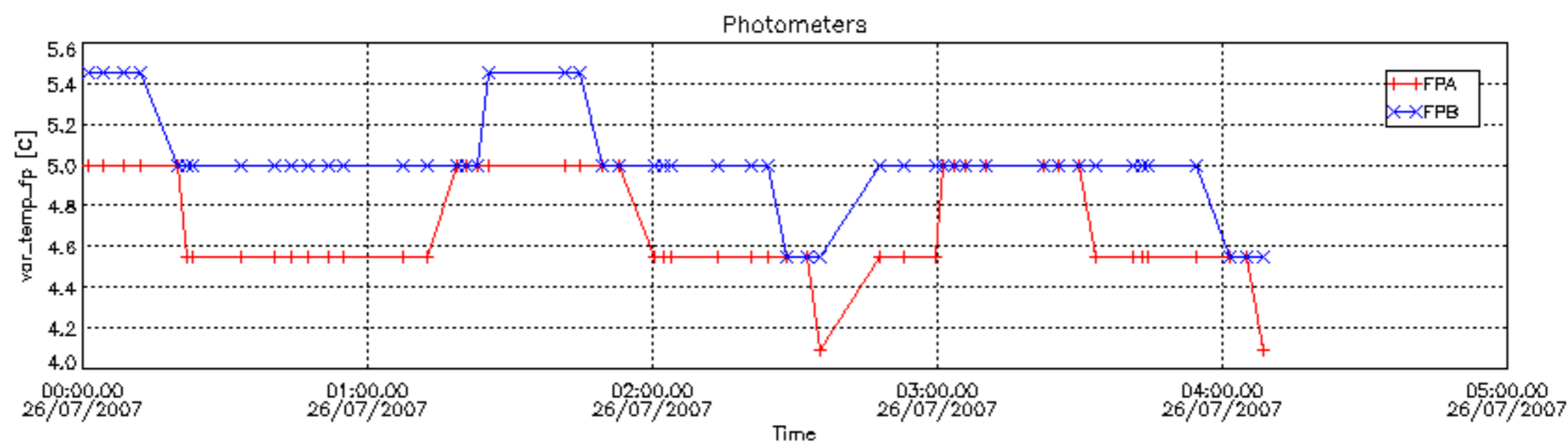
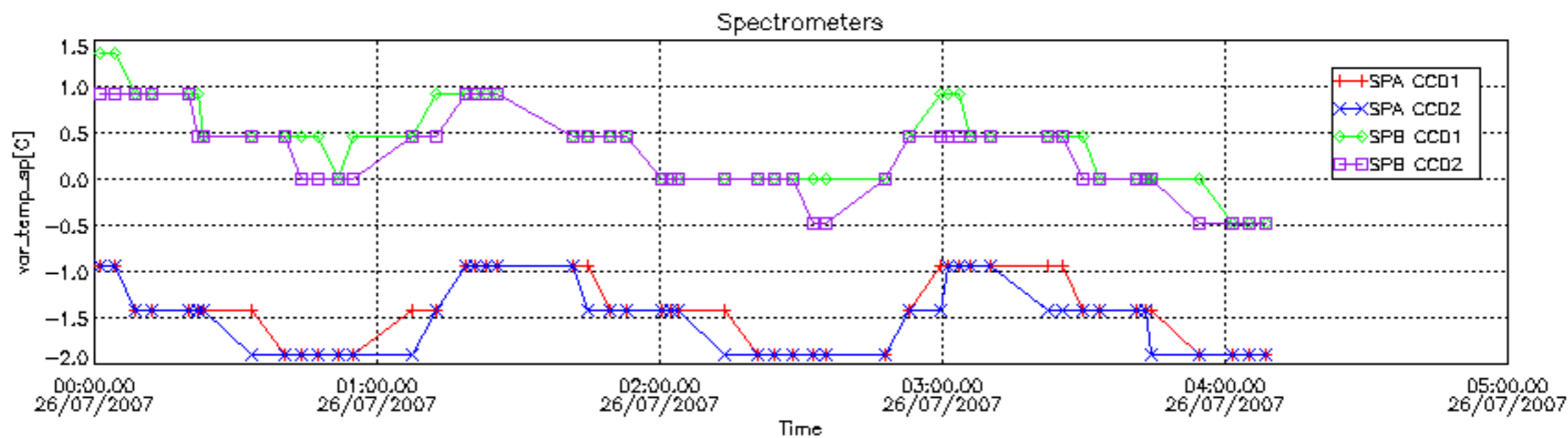
### 8. Auxiliary Data Files used for the production reported in section 2.4

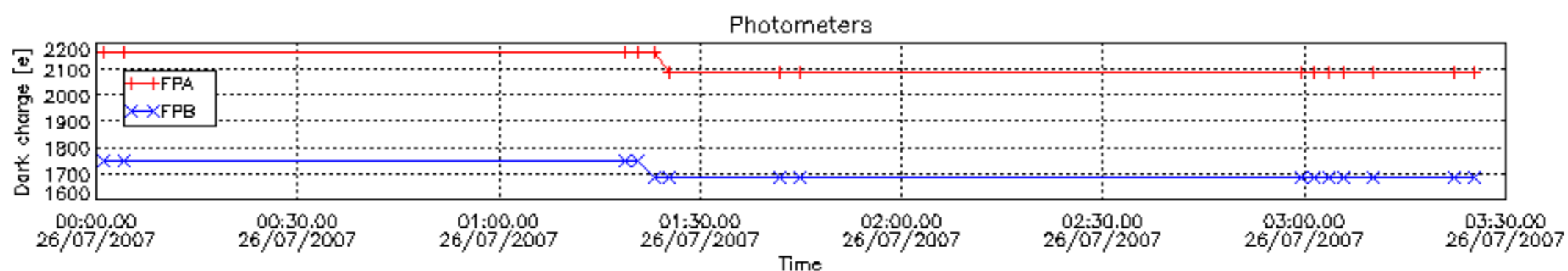
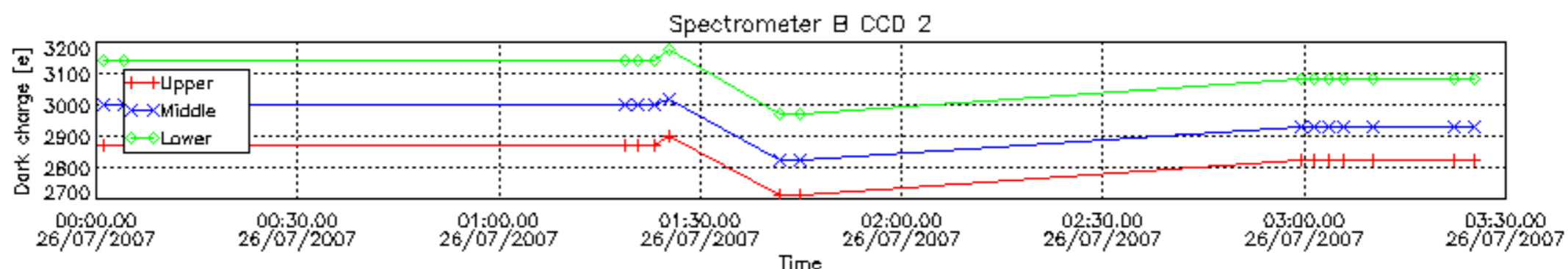
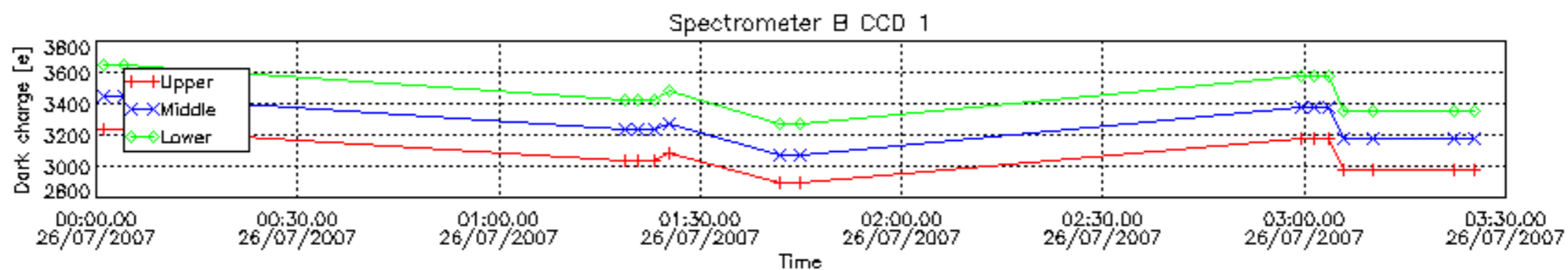
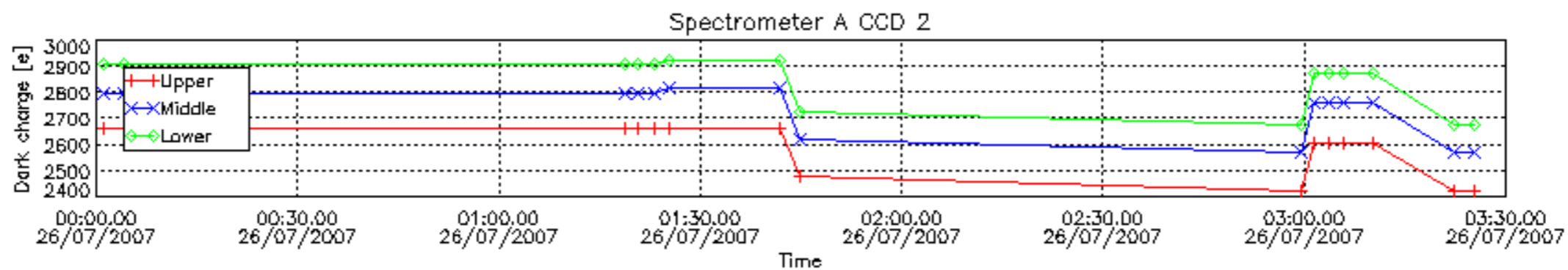
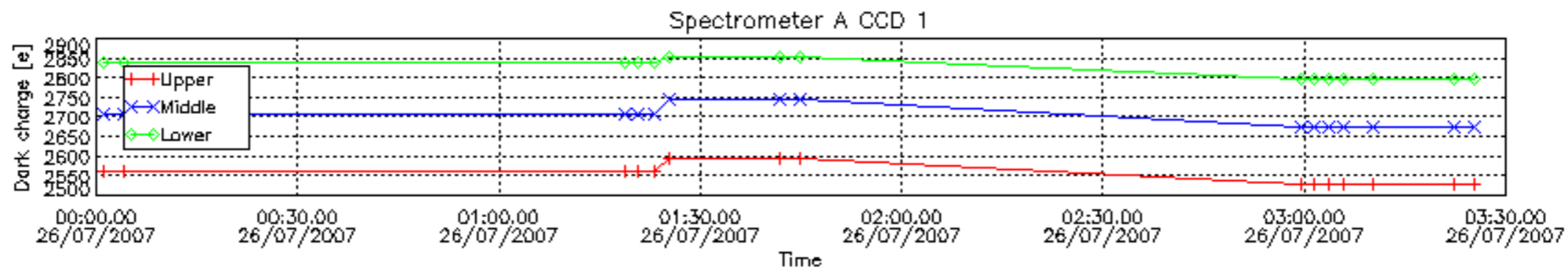
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20070713_071616_20070710_000000_20100101_000000	1	26-JUL-2007 00:01:07
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	26-JUL-2007 00:01:07
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	26-JUL-2007 00:01:07
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	26-JUL-2007 00:01:07
ECMWF_FILE	AUX_ECF_AXNECM20070725_062113_20070725_210000_20070726_090000	1	26-JUL-2007 00:01:07
OPTIONAL_ECMWF_FILE	MISSING	1	26-JUL-2007 00:01:07
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070725_220007_000057382060_00129_28239_3849.N1	1	26-JUL-2007 00:01:07
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20070725_234104_000057382060_00130_28240_3850.N1	19	26-JUL-2007 01:25:22
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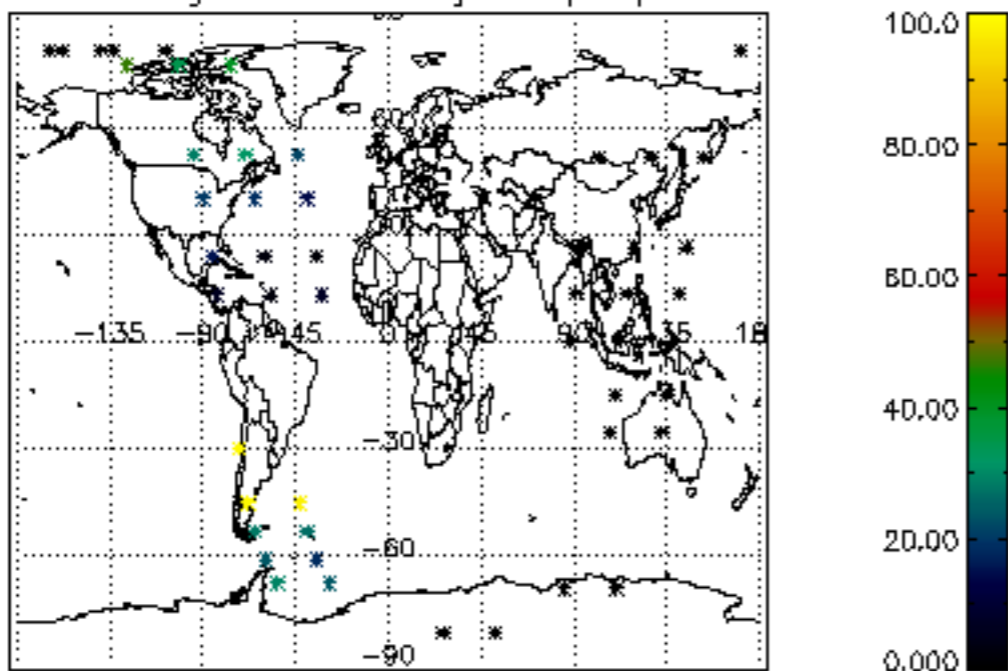




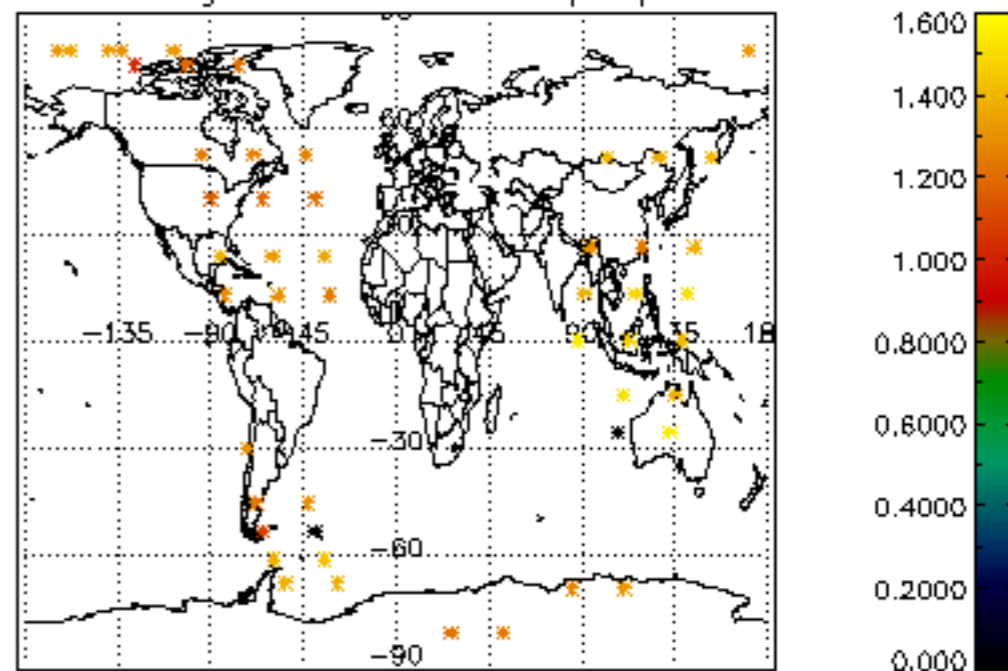




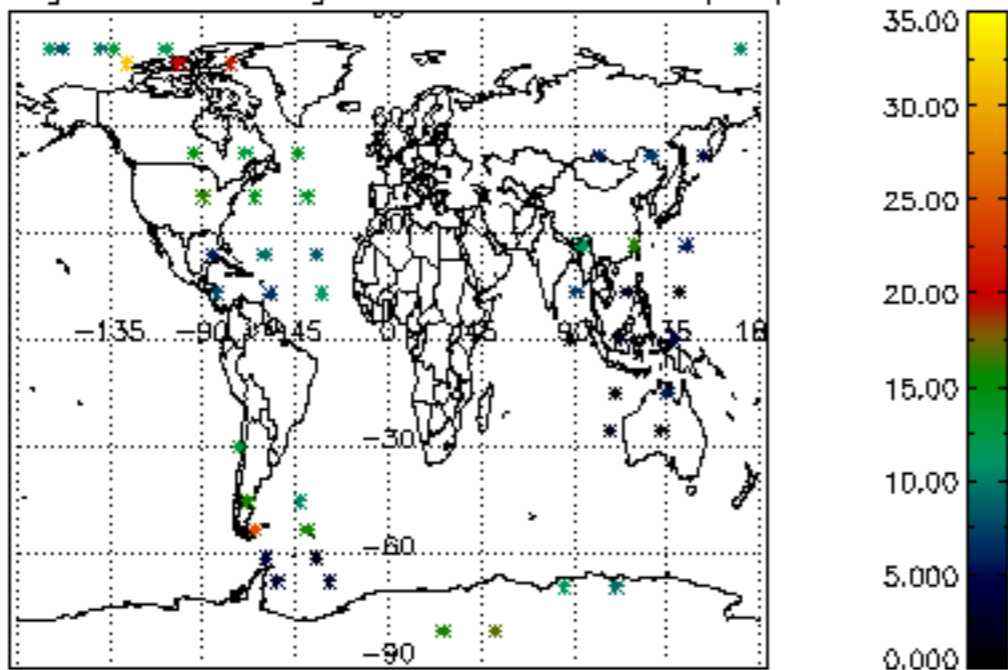
Percentage of cosmic ray hits per profile



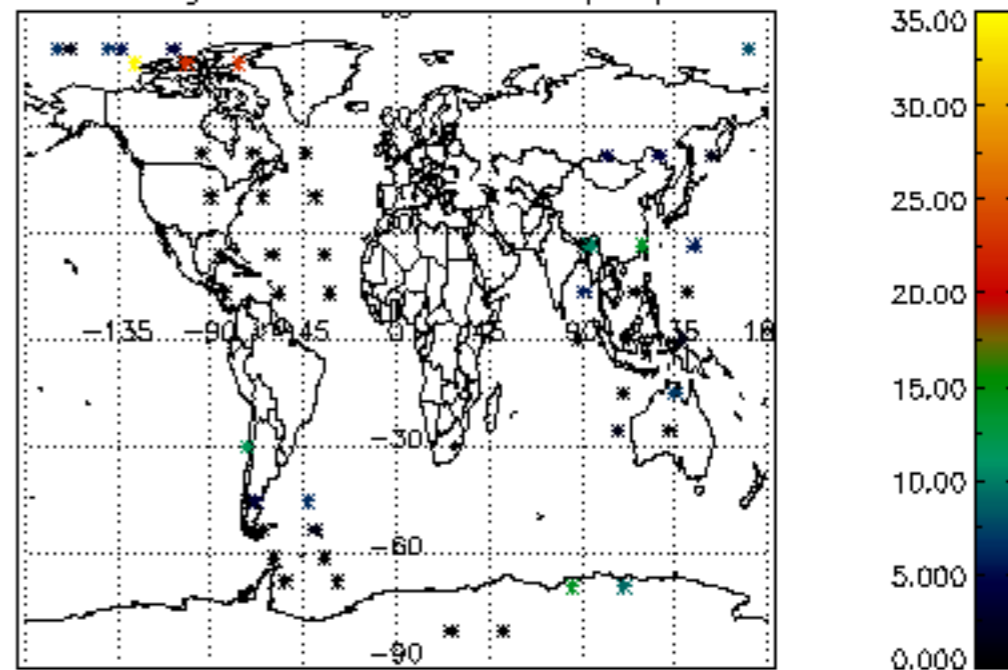
Percentage of datation errors per profile



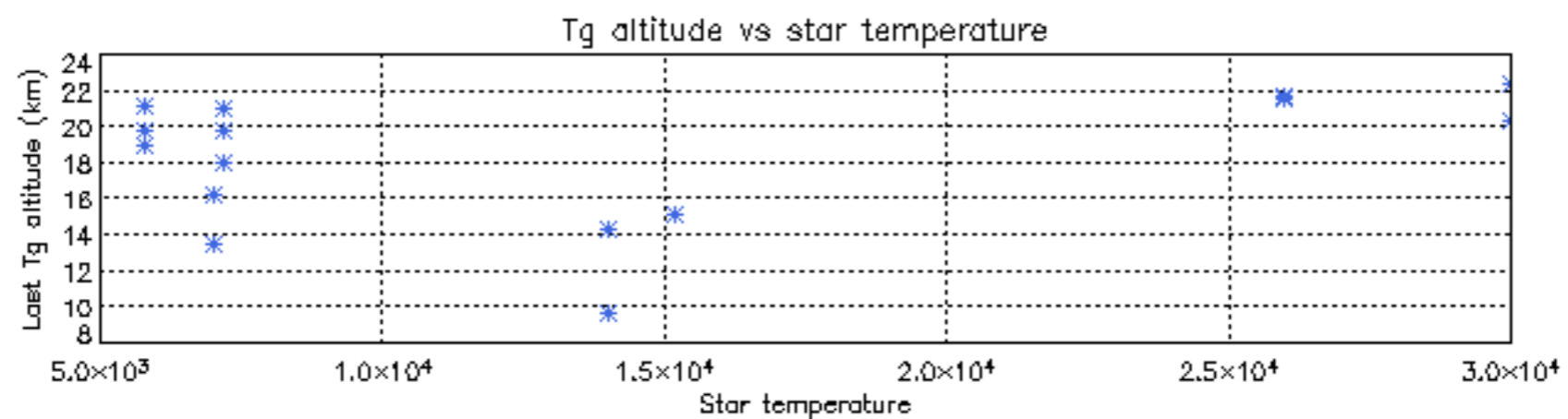
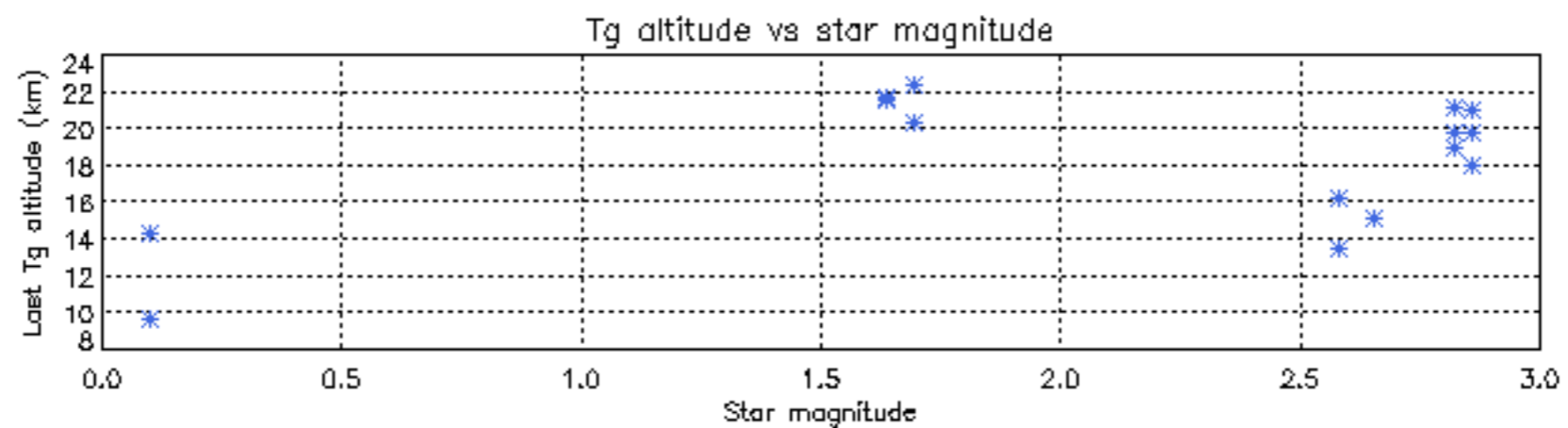
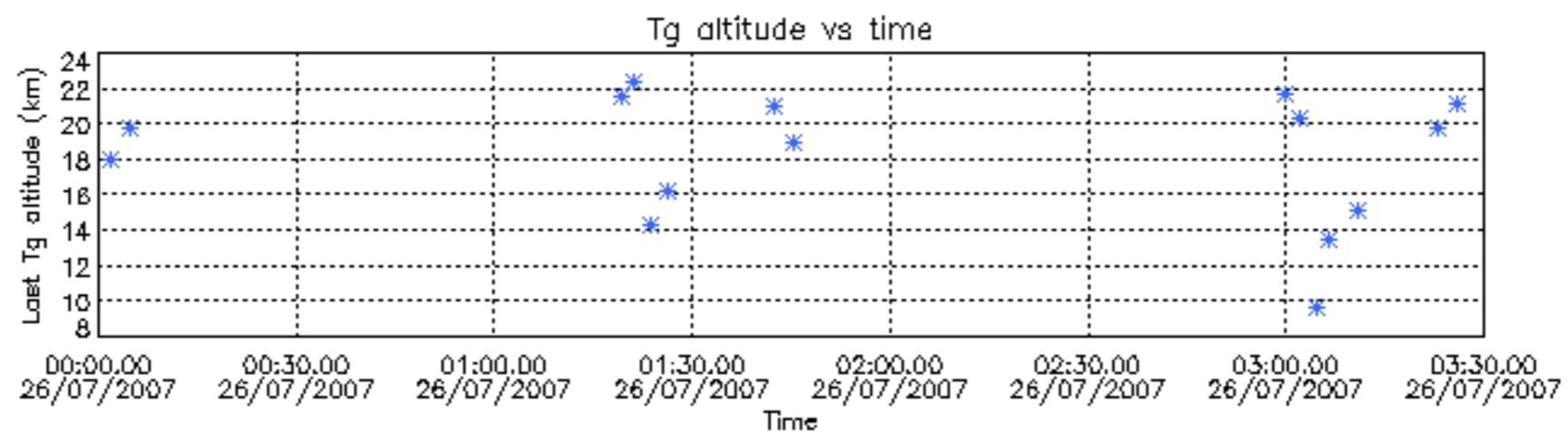
Percentage of star falling outside central band per profile



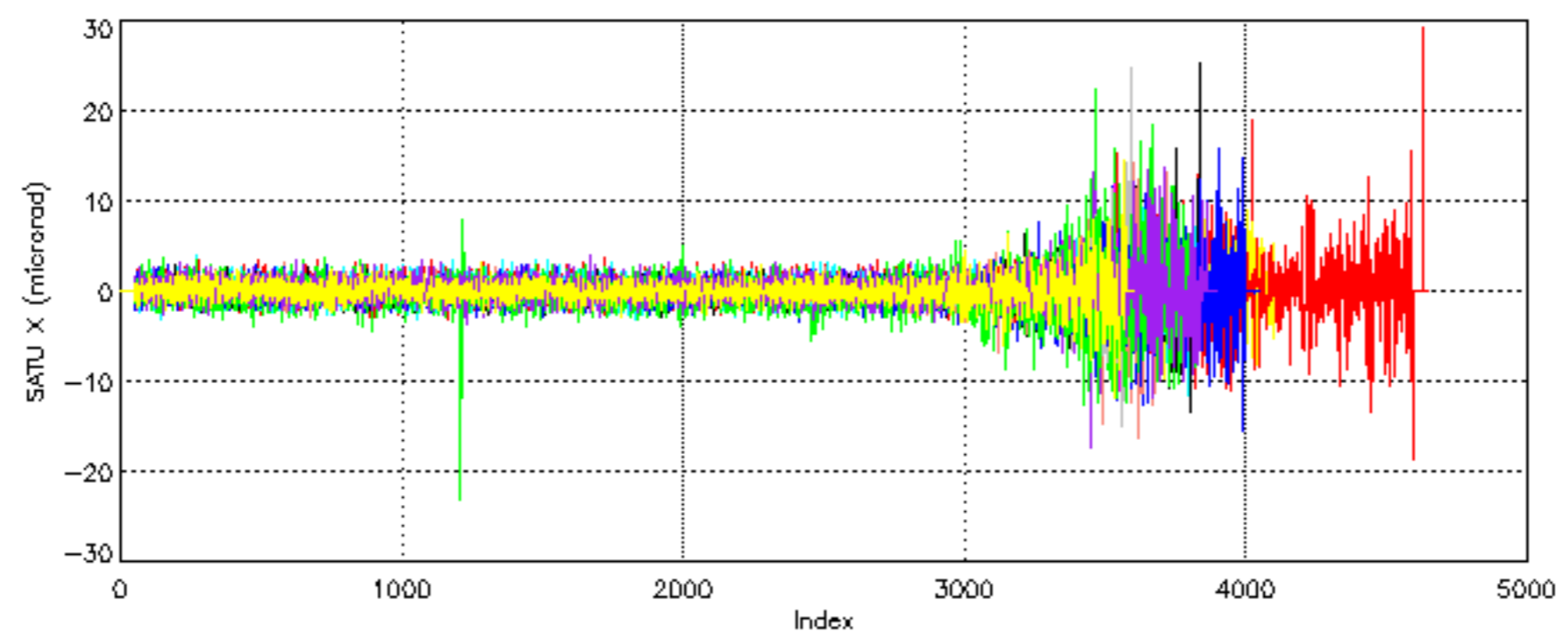
Percentage of saturation errors per profile



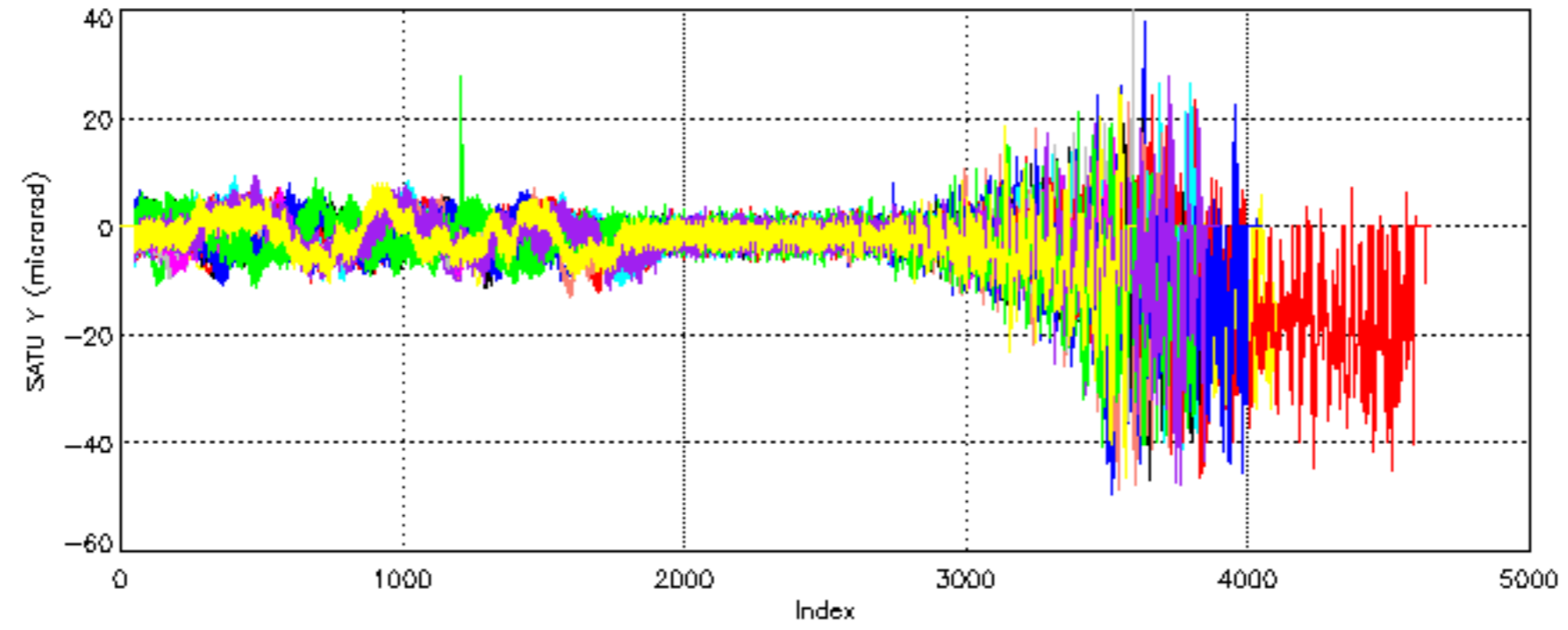
Tangent altitude at which the star is lost

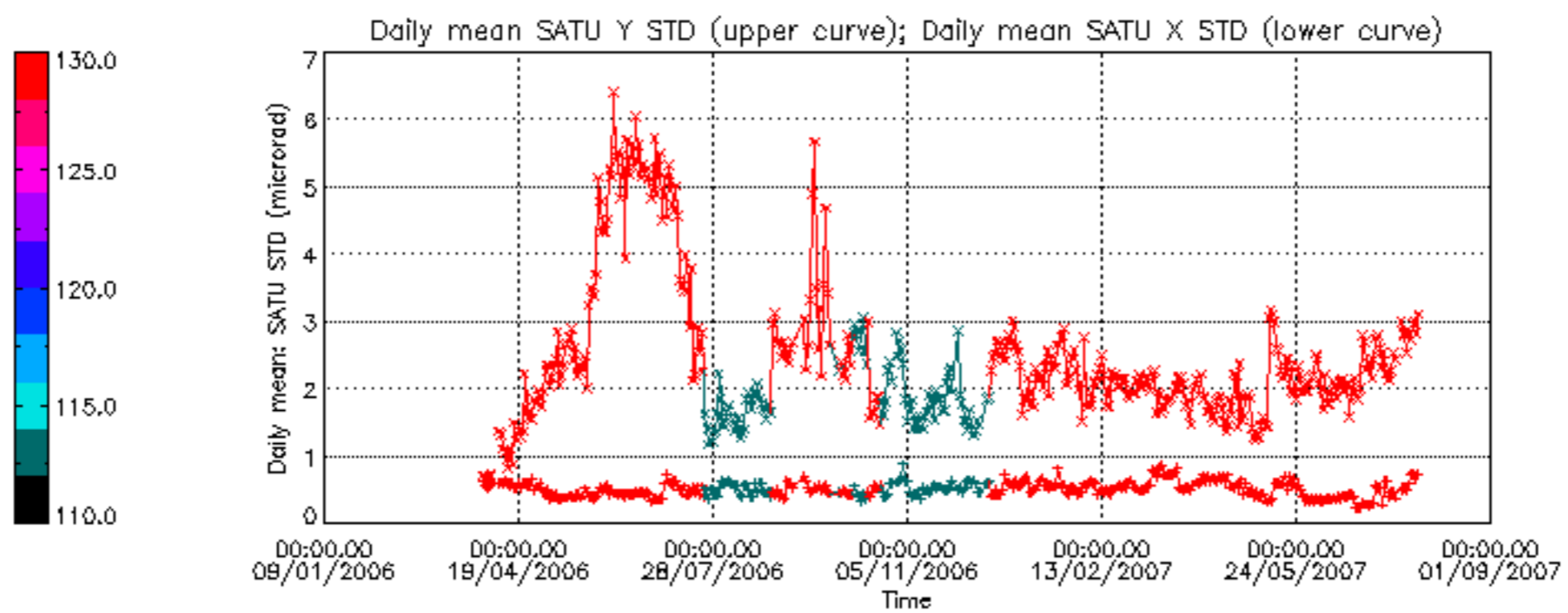












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