

# GOMOS Daily Report 10-AUG-2006

## Level 0 and Level 1 products

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### 1. General Info

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	12AUG2006 04:31:58
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (10AUG2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (11AUG2006 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	13

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

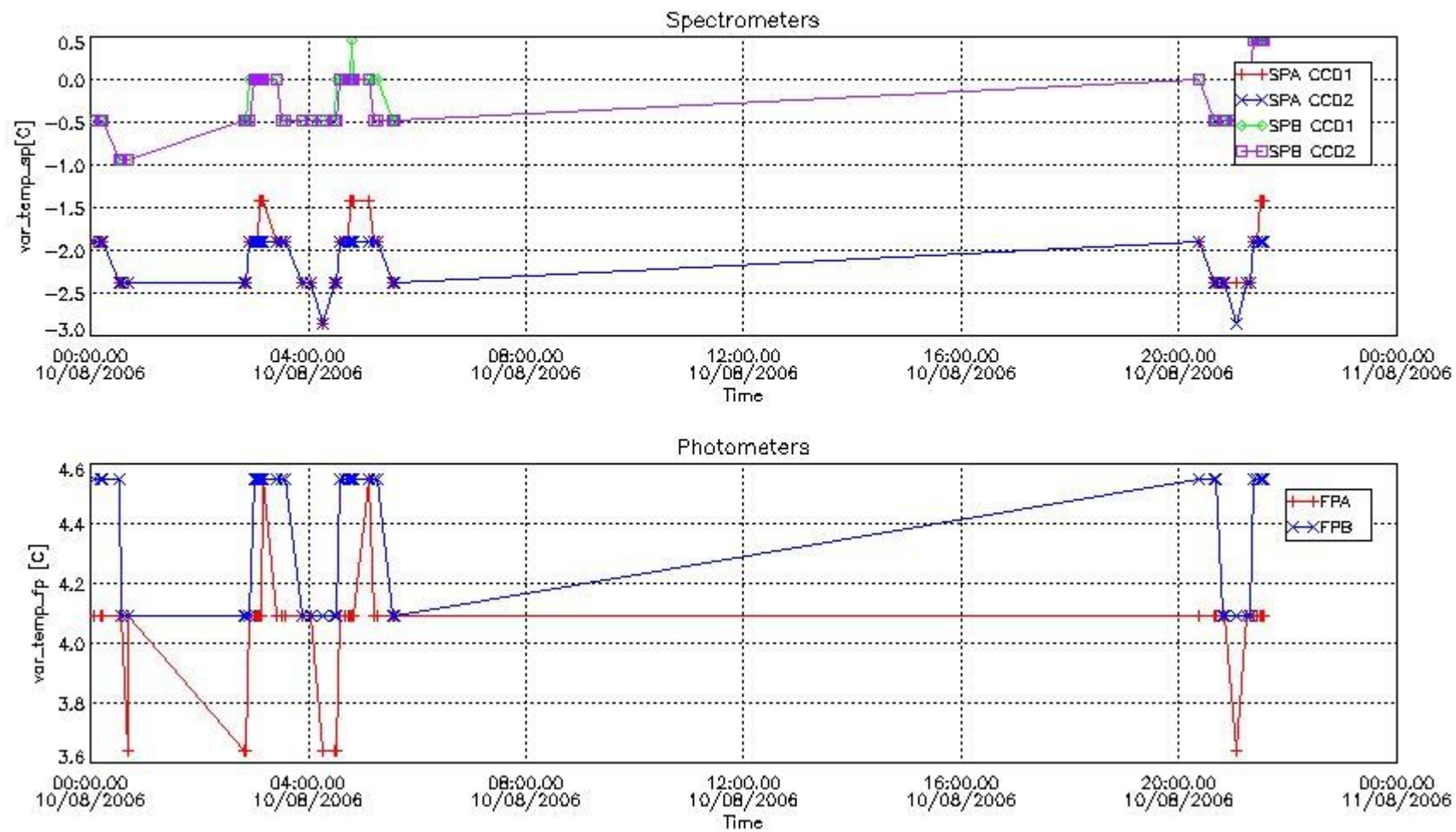
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 2.2 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_1PNPDE20060810_000411_000000362050_00131_23231_0786.N1	10-AUG-2006 00:04:11	Dark	35.500	9	Alp Eri	0.45300	24000.	71	23231	No
2	GOM_TRA_1PNPDE20060810_001026_000000412050_00131_23231_0787.N1	10-AUG-2006 00:10:26	Straylight	41.000	148	Alp Tuc	2.8780	4100.0	82	23231	No
3	GOM_TRA_1PNPDE20060810_001356_000000402050_00131_23231_0788.N1	10-AUG-2006 00:13:56	Straylight	40.000	31	Alp Gru	1.7340	15200.	80	23231	No
4	GOM_TRA_1PNPDE20060810_003155_000000312050_00131_23231_0789.N1	10-AUG-2006 00:31:55	Bright	30.500	11	53Alp Aql	0.76500	8000.0	61	23231	Yes
5	GOM_TRA_1PNPDE20060810_003336_000000292050_00131_23231_0790.N1	10-AUG-2006 00:33:36	Bright	28.500	168	17Zet Aql	2.9860	11000.	57	23231	Yes
6	GOM_TRA_1PNPDE20060810_004044_000000322050_00131_23231_0791.N1	10-AUG-2006 00:40:44	Bright	31.500	5	3Alp Lyr	0.033000	11000.	63	23231	No
7	GOM_TRA_1PNPDE20060810_004215_000000292050_00131_23231_0792.N1	10-AUG-2006 00:42:15	Bright	29.000	144	18Del Cyg	2.8600	11000.	58	23231	Yes
8	GOM_TRA_1PNPDE20060810_024832_000000322050_00132_23232_0785.N1	10-AUG-2006 02:48:32	Bright	31.500	42	34Bet Aur	1.9000	10200.	63	23232	No
9	GOM_TRA_1PNPDE20060810_025053_000000332050_00132_23232_0786.N1	10-AUG-2006 02:50:53	Bright	32.500	107	37The Aur	2.6490	11000.	65	23232	No
10	GOM_TRA_1PNPDE20060810_025500_000000342050_00132_23232_0787.N1	10-AUG-2006 02:55:00	Bright	33.500	151	13Mu Gem	2.8900	3000.0	67	23232	No
11	GOM_TRA_1PNPDE20060810_025950_000000482050_00132_23232_0788.N1	10-AUG-2006 02:59:50	Dark	47.500	14	58Alp Ori	0.87000	3000.0	95	23232	No
12	GOM_TRA_1PNPDE20060810_030254_000000392050_00132_23232_0789.N1	10-AUG-2006 03:02:54	Dark	39.000	33	50Zet Ori	1.7660	30000.	78	23232	No
13	GOM_TRA_1PNPDE20060810_030412_000000372050_00132_23232_0790.N1	10-AUG-2006 03:04:12	Dark	36.500	125	44Iot Ori	2.7700	30000.	73	23232	No
14	GOM_TRA_1PNPDE20060810_030537_000000342050_00132_23232_0791.N1	10-AUG-2006 03:05:37	Dark	33.500	1	9Alp CMa	-1.4400	11000.	67	23232	No
15	GOM_TRA_1PNPDE20060810_030734_000000382050_00132_23232_0792.N1	10-AUG-2006 03:07:34	Dark	37.500	101	11Alp Lep	2.5820	7000.0	75	23232	No
16	GOM_TRA_1PNPDE20060810_030938_000000332050_00132_23232_0793.N1	10-AUG-2006 03:09:38	Dark	33.000	177	1Zet CMa	3.0220	26000.	66	23232	No
17	GOM_TRA_1PNPDE20060810_032524_000000392050_00133_23233_0794.N1	10-AUG-2006 03:25:24	Dark	38.500	9	Alp Eri	0.45300	24000.	77	23233	No
18	GOM_TRA_1PNPDE20060810_033139_000000352050_00133_23233_0795.N1	10-AUG-2006 03:31:39	Straylight	34.500	148	Alp Tuc	2.8780	4100.0	69	23233	No
19	GOM_TRA_1PNPDE20060810_033509_000000382050_00133_23233_0796.N1	10-AUG-2006 03:35:09	Straylight	38.000	31	Alp Gru	1.7340	15200.	76	23233	No
20	GOM_TRA_1PNPDE20060810_035307_000000312050_00133_23233_0797.N1	10-AUG-2006 03:53:07	Bright	30.500	11	53Alp Aql	0.76500	8000.0	61	23233	Yes
21	GOM_TRA_1PNPDE20060810_040156_000000332050_00133_23233_0798.N1	10-AUG-2006 04:01:56	Bright	32.500	5	3Alp Lyr	0.033000	11000.	65	23233	No
22	GOM_TRA_1PNPDE20060810_040326_000000312050_00133_23233_0799.N1	10-AUG-2006 04:03:26	Bright	30.500	144	18Del Cyg	2.8600	11000.	61	23233	Yes
23	GOM_TRA_1PNPDE20060810_041608_000000302050_00133_23233_0800.N1	10-AUG-2006 04:16:08	Bright	29.500	49	1Alp UMi	1.9900	6300.0	59	23233	Yes
24	GOM_TRA_1PNPDE20060810_042908_000000312050_00133_23233_0787.N1	10-AUG-2006 04:29:08	Bright	30.500	42	34Bet Aur	1.9000	10200.	61	23233	No
25	GOM_TRA_1PNPDE20060810_043129_000000302050_00133_23233_0788.N1	10-AUG-2006 04:31:29	Bright	30.000	107	37The Aur	2.6490	11000.	60	23233	No
26	GOM_TRA_1PNPDE20060810_043537_000000372050_00133_23233_0789.N1	10-AUG-2006 04:35:37	Bright	37.000	151	13Mu Gem	2.8900	3000.0	74	23233	No
27	GOM_TRA_1PNPDE20060810_044027_000000452050_00133_23233_0790.N1	10-AUG-2006 04:40:27	Dark	45.000	14	58Alp Ori	0.87000	3000.0	90	23233	No
28	GOM_TRA_1PNPDE20060810_044331_000000372050_00133_23233_0791.N1	10-AUG-2006 04:43:31	Dark	36.500	33	50Zet Ori	1.7660	30000.	73	23233	No
29	GOM_TRA_1PNPDE20060810_044448_000000362050_00133_23233_0792.N1	10-AUG-2006 04:44:48	Dark	35.500	125	44Iot Ori	2.7700	30000.	71	23233	No
30	GOM_TRA_1PNPDE20060810_044614_000000332050_00133_23233_0793.N1	10-AUG-2006 04:46:14	Dark	32.500	1	9Alp CMa	-1.4400	11000.	65	23233	No
31	GOM_TRA_1PNPDE20060810_044811_000000382050_00133_23233_0794.N1	10-AUG-2006 04:48:11	Dark	37.500	101	11Alp Lep	2.5820	7000.0	75	23233	No
32	GOM_TRA_1PNPDE20060810_045015_000000332050_00133_23233_0795.N1	10-AUG-2006 04:50:15	Dark	32.500	177	1Zet CMa	3.0220	26000.	65	23233	No
33	GOM_TRA_1PNPDE20060810_050601_000000372050_00134_23234_0796.N1	10-AUG-2006 05:06:01	Dark	36.500	9	Alp Eri	0.45300	24000.	73	23234	No
34	GOM_TRA_1PNPDE20060810_051215_000000332050_00134_23234_0797.N1	10-AUG-2006 05:12:15	Straylight	33.000	148	Alp Tuc	2.8780	4100.0	66	23234	No
35	GOM_TRA_1PNPDE20060810_051545_000000372050_00134_23234_0798.N1	10-AUG-2006 05:15:45	Straylight	37.000	31	Alp Gru	1.7340	15200.	74	23234	No
36	GOM_TRA_1PNPDE20060810_053343_000000302050_00134_23234_0799.N1	10-AUG-2006 05:33:43	Bright	30.000	11	53Alp Aql	0.76500	8000.0	60	23234	Yes
37	GOM_TRA_1PNPDE20060810_053524_000000292050_00134_23234_0800.N1	10-AUG-2006 05:35:24	Bright	28.500	168	17Zet Aql	2.9860	11000.	57	23234	Yes
38	GOM_TRA_1PNPDE20060810_202113_000000412050_00143_23243_0792.N1	10-AUG-2006 20:21:13	Straylight	40.500	31	Alp Gru	1.7340	15200.	81	23243	No
39	GOM_TRA_1PNPDE20060810_203907_000000302050_00143_23243_0793.N1	10-AUG-2006 20:39:07	Bright	30.000	11	53Alp Aql	0.76500	8000.0	60	23243	Yes
40	GOM_TRA_1PNPDE20060810_204049_000000292050_00143_23243_0794.N1	10-AUG-2006 20:40:49	Bright	28.500	168	17Zet Aql	2.9860	11000.	57	23243	Yes
41	GOM_TRA_1PNPDE20060810_204757_000000322050_00143_23243_0795.N1	10-AUG-2006 20:47:57	Bright	31.500	5	3Alp Lyr	0.033000	11000.	63	23243	No
42	GOM_TRA_1PNPDE20060810_204925_000000302050_00143_23243_0796.N1	10-AUG-2006 20:49:25	Bright	30.000	144	18Del Cyg	2.8600	11000.	60	23243	Yes

43	GOM_TRA_1PNPDE20060810_210207_000000302050_00143_23243_0797.N1	10-AUG-2006 21:02:07	Bright	29.500	49	1Alp UMi	1.9900	6300.0	59	23243	Yes
44	GOM_TRA_1PNPDE20060810_211508_000000342050_00143_23243_0798.N1	10-AUG-2006 21:15:08	Bright	34.000	42	34Bet Aur	1.9000	10200.	68	23243	Yes
45	GOM_TRA_1PNPDE20060810_211729_000000332050_00143_23243_0799.N1	10-AUG-2006 21:17:29	Bright	32.500	107	37The Aur	2.6490	11000.	65	23243	No
46	GOM_TRA_1PNPDE20060810_212138_000000482050_00143_23243_0800.N1	10-AUG-2006 21:21:38	Bright	48.000	151	13Mu Gem	2.8900	3000.0	96	23243	No
47	GOM_TRA_1PNPDE20060810_212630_000000502050_00143_23243_0801.N1	10-AUG-2006 21:26:30	Dark	50.000	14	58Alp Ori	0.87000	3000.0	100	23243	No
48	GOM_TRA_1PNPDE20060810_212935_000000362050_00143_23243_0802.N1	10-AUG-2006 21:29:35	Dark	36.000	33	50Zet Ori	1.7660	30000.	72	23243	No
49	GOM_TRA_1PNPDE20060810_213053_000000362050_00143_23243_0803.N1	10-AUG-2006 21:30:53	Dark	36.000	125	44Iot Ori	2.7700	30000.	72	23243	No
50	GOM_TRA_1PNPDE20060810_213215_000000272050_00143_23243_0804.N1	10-AUG-2006 21:32:15	Dark	26.500	1	9Alp CMa	-1.4400	11000.	53	23243	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.

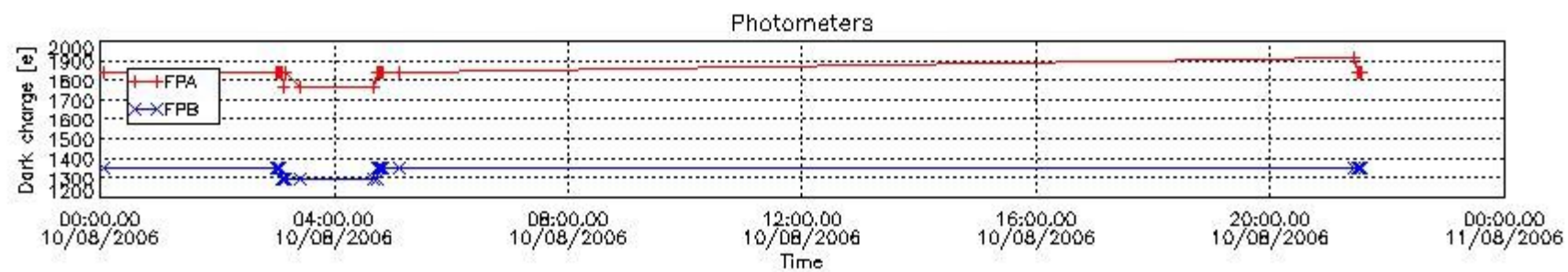
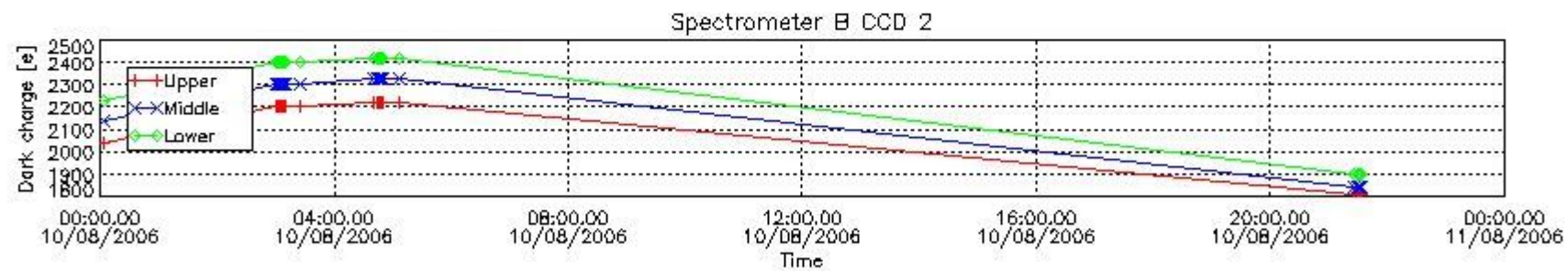
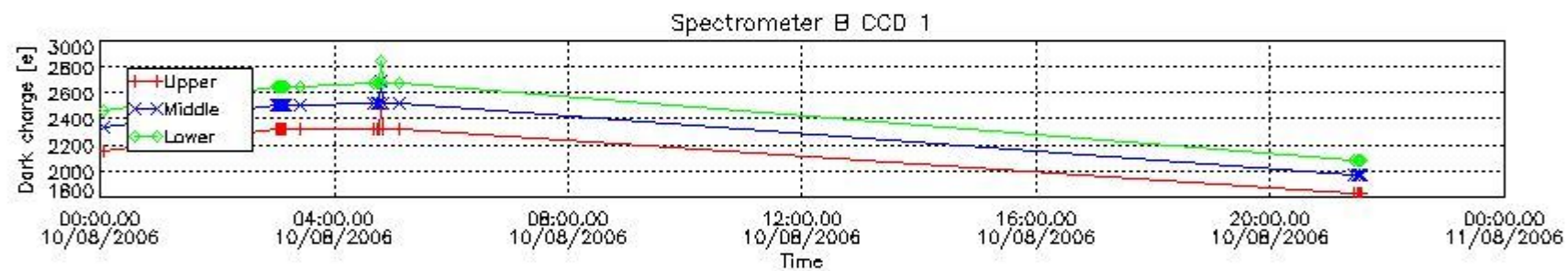
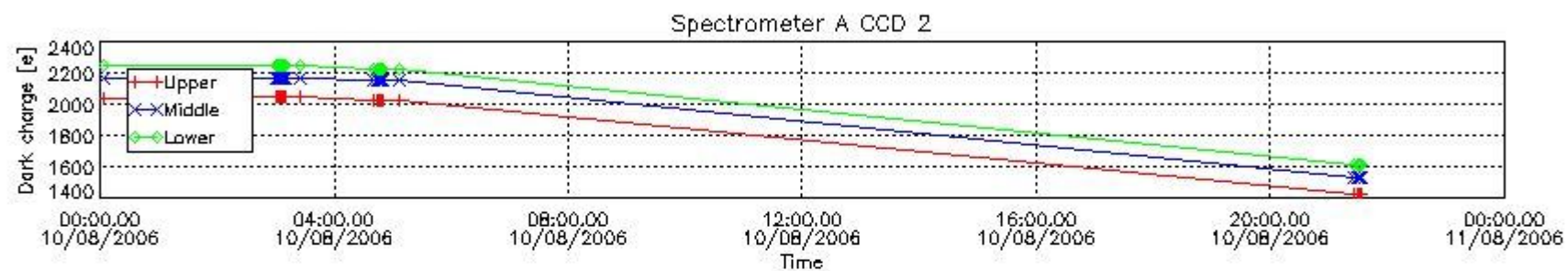
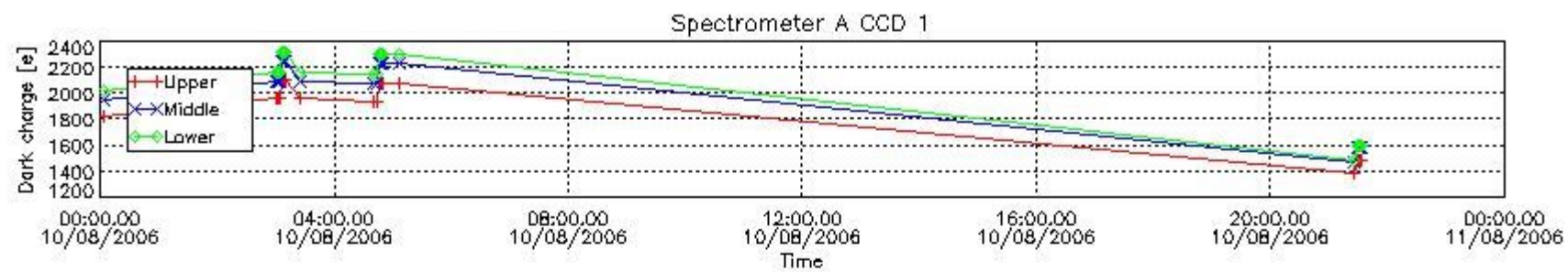
#### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20060810_202113_000000412050_00143_23243_0792.N1	DC map used
GOM_TRA_1PNPDE20060810_203907_000000302050_00143_23243_0793.N1	DC map used

GOM_TRA_1PNPDE20060810_204049_000000292050_00143_23243_0794.N1	DC map used
GOM_TRA_1PNPDE20060810_204757_000000322050_00143_23243_0795.N1	DC map used
GOM_TRA_1PNPDE20060810_204925_000000302050_00143_23243_0796.N1	DC map used
GOM_TRA_1PNPDE20060810_210207_000000302050_00143_23243_0797.N1	DC map used
GOM_TRA_1PNPDE20060810_211508_000000342050_00143_23243_0798.N1	DC map used
GOM_TRA_1PNPDE20060810_211729_000000332050_00143_23243_0799.N1	DC map used
GOM_TRA_1PNPDE20060810_212138_000000482050_00143_23243_0800.N1	DC map used
GOM_TRA_1PNPDE20060810_212630_000000502050_00143_23243_0801.N1	DC map used
GOM_TRA_1PNPDE20060810_212935_000000362050_00143_23243_0802.N1	DC map used
GOM_TRA_1PNPDE20060810_213053_000000362050_00143_23243_0803.N1	DC map used
GOM_TRA_1PNPDE20060810_213215_000000272050_00143_23243_0804.N1	DC map used

*4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used*





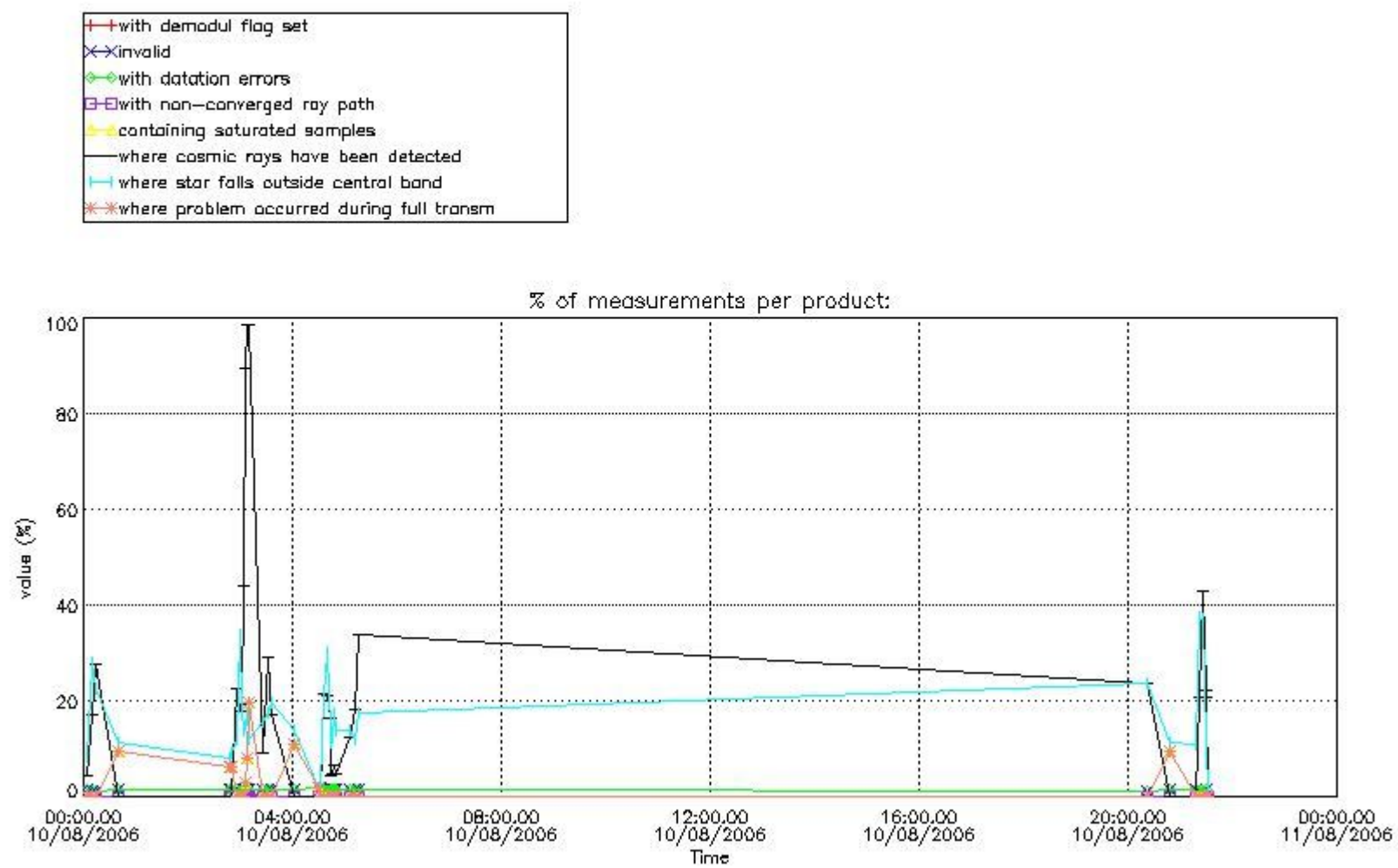
## 5. Demodulation flag and quality information monitoring

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.

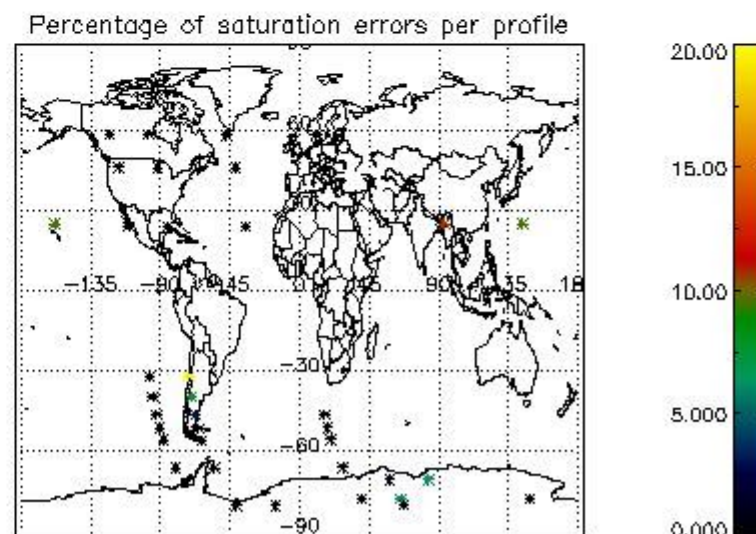
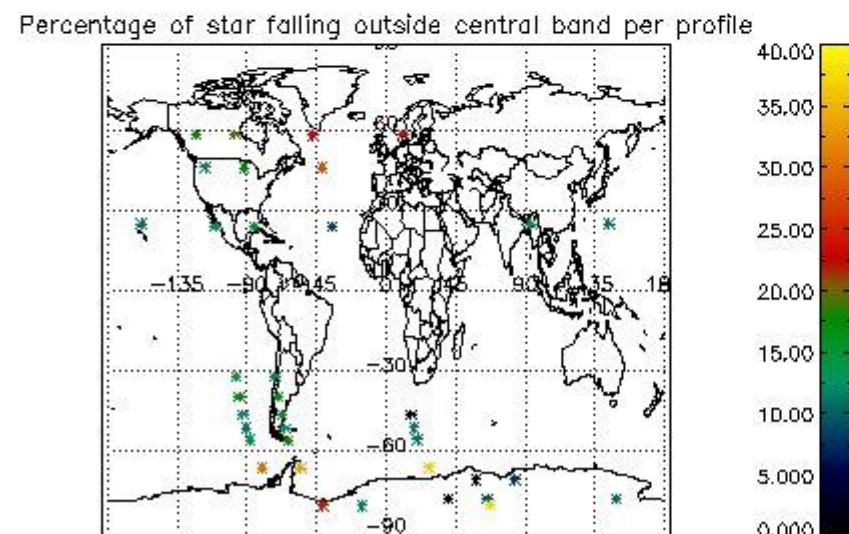
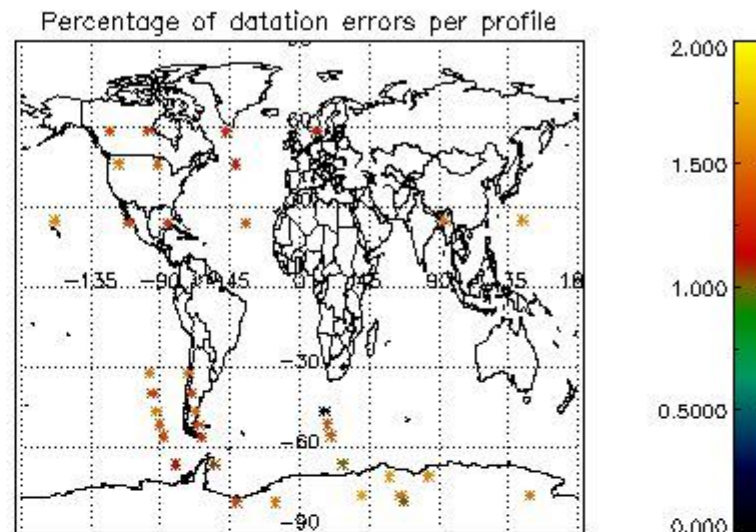
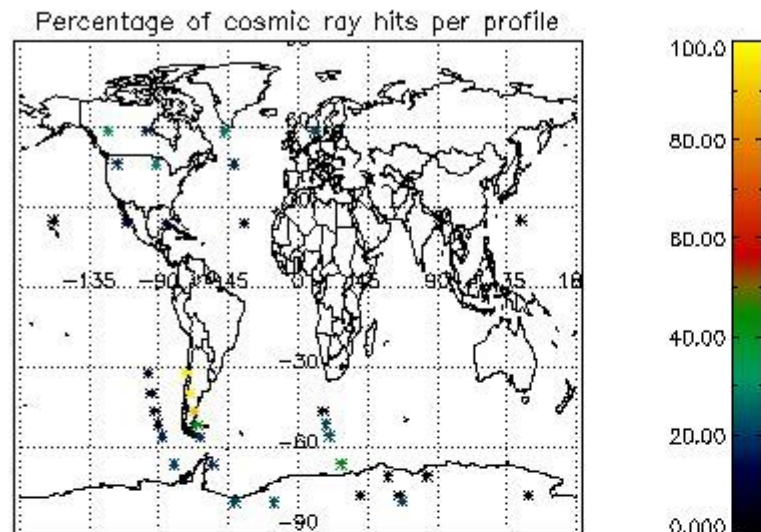
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	21.6216 %
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)

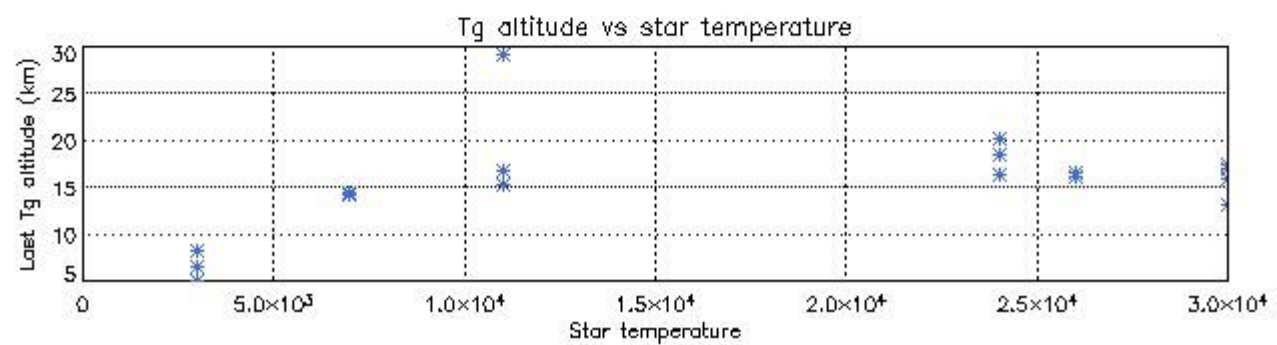
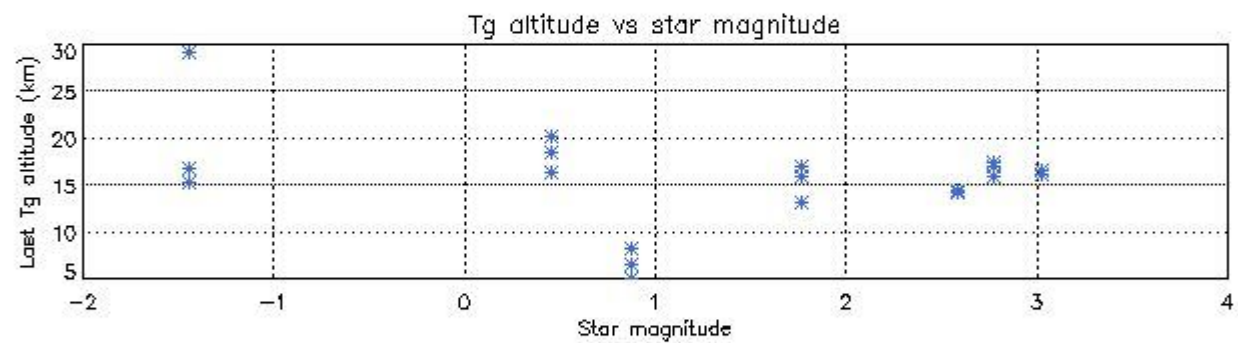
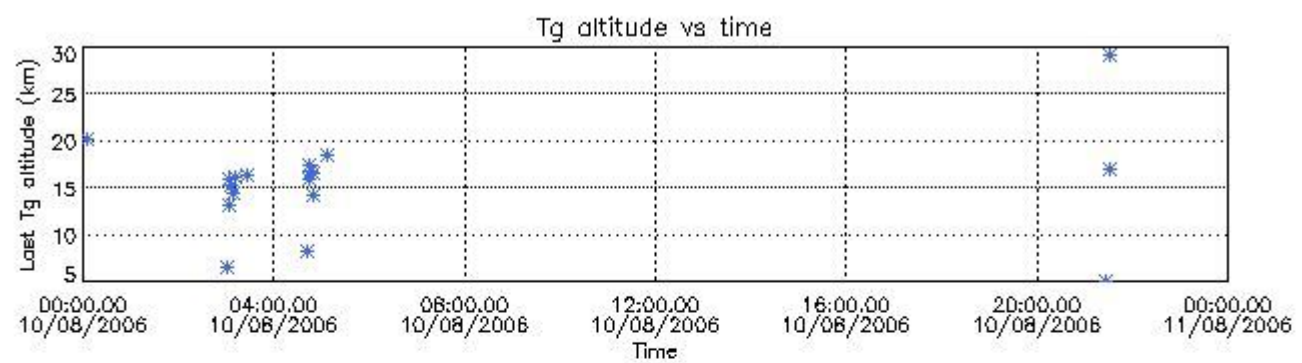
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.447	17.868	NaN
St. deviation:	5.1826	5.4738	NaN
Maximum:	29.189	24.621	NaN
Minimum:	5.0867	4.7037	NaN
Number of data:	19.000	11.000	NaN

### 6.2 Plot for DARK limb products



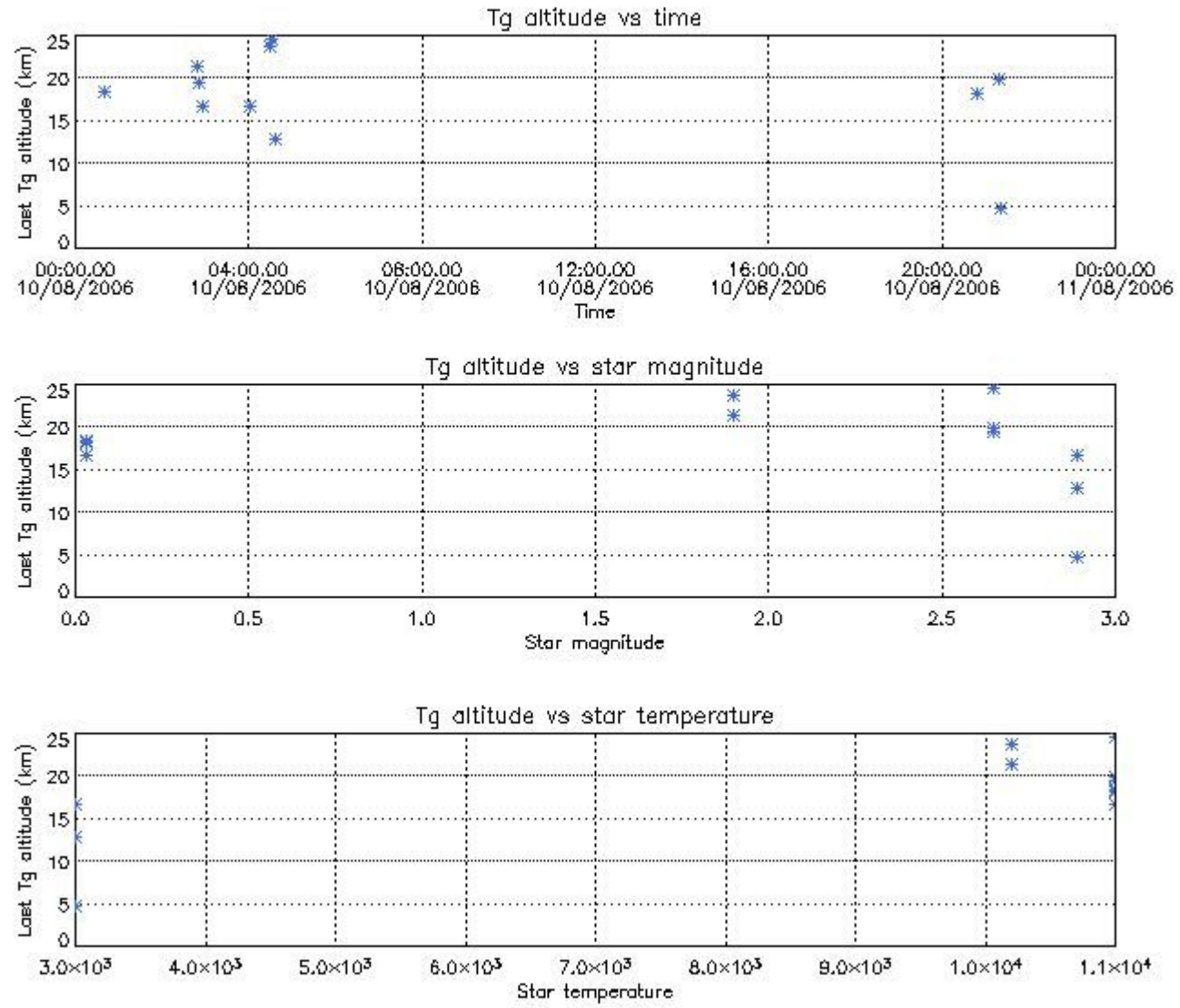
Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products



## Tangent altitude at which the star is lost

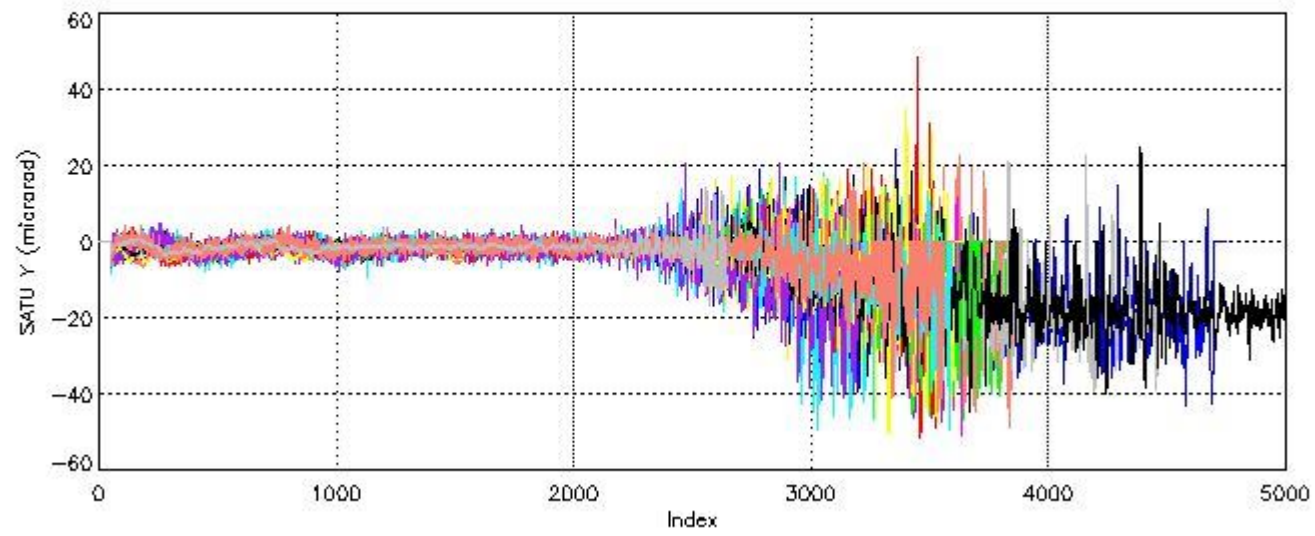
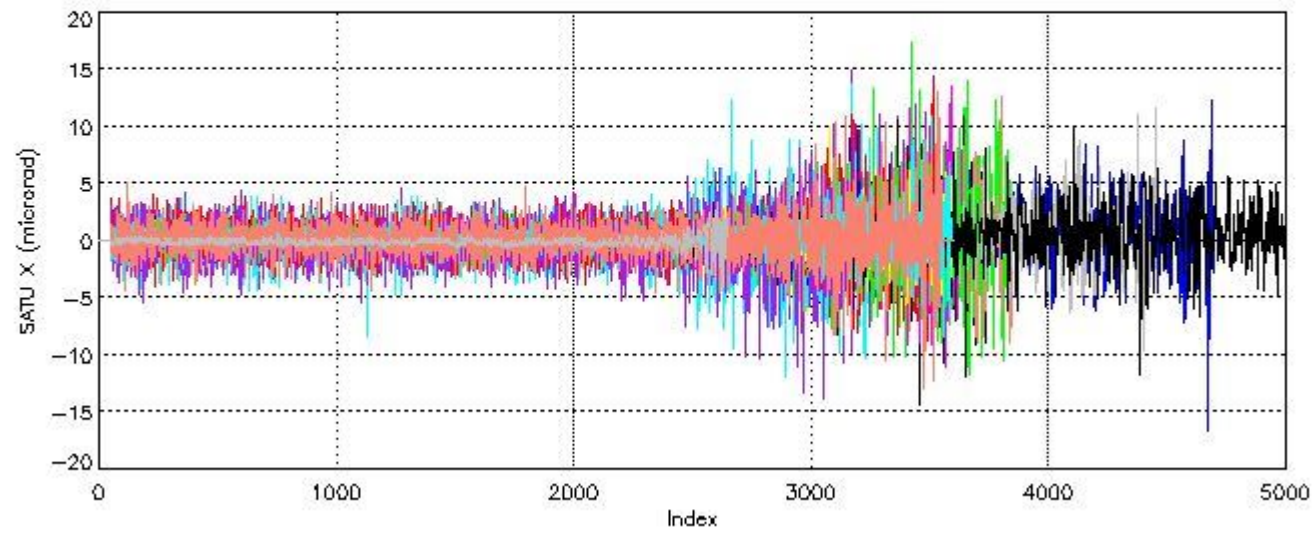


## 7. Star Acquisition and Tracking Unit (SATU)

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.

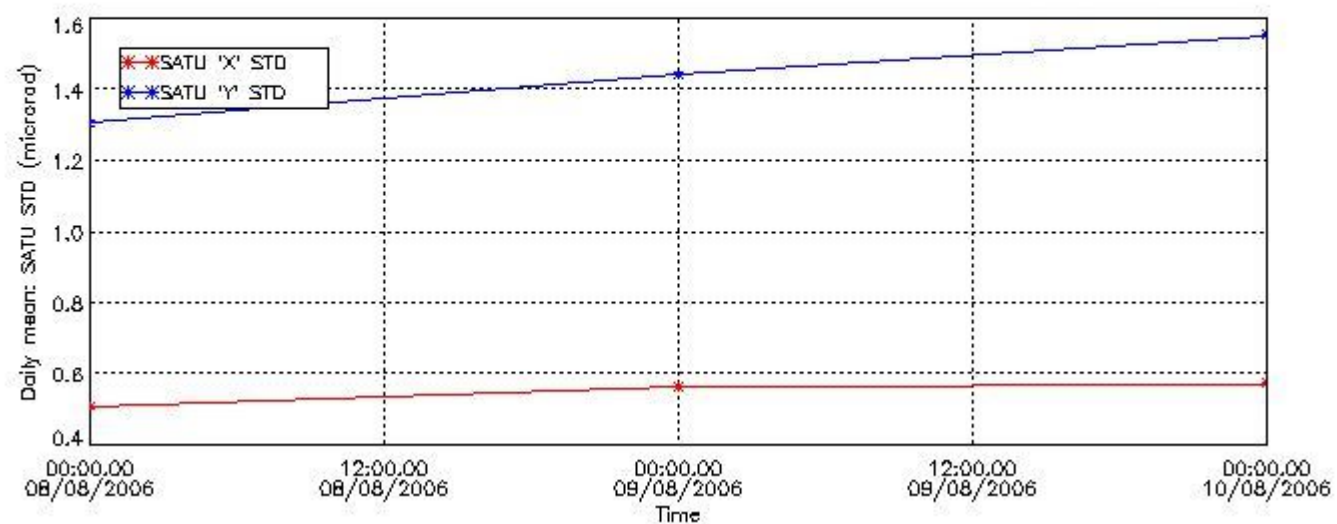
### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.079920	-1.4879	-0.018594	-2.2180
St. deviation:	0.57402	1.5564	0.49112	1.4305
Maximum:	5.0000	4.8000	3.1000	1.5000
Minimum:	-0.50000	-3.6000	-0.80000	-4.8000

Number of data:	6550.0	6550.0	2950.0	2950.0
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### 7.2.2 Trend of daily SATU NEA St. deviation during the last two months (dark limb)

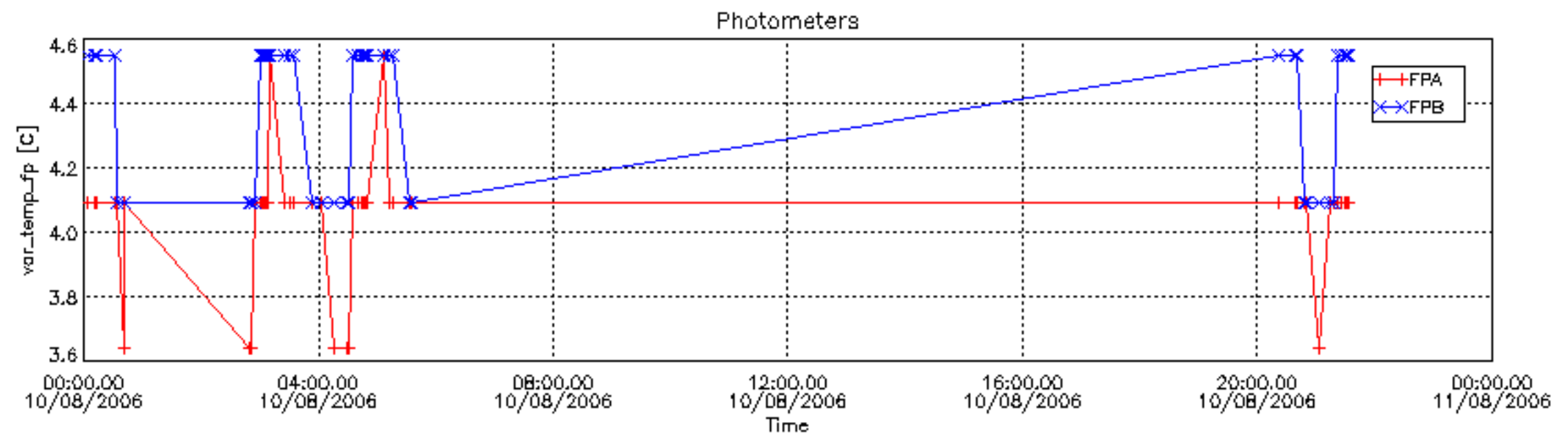
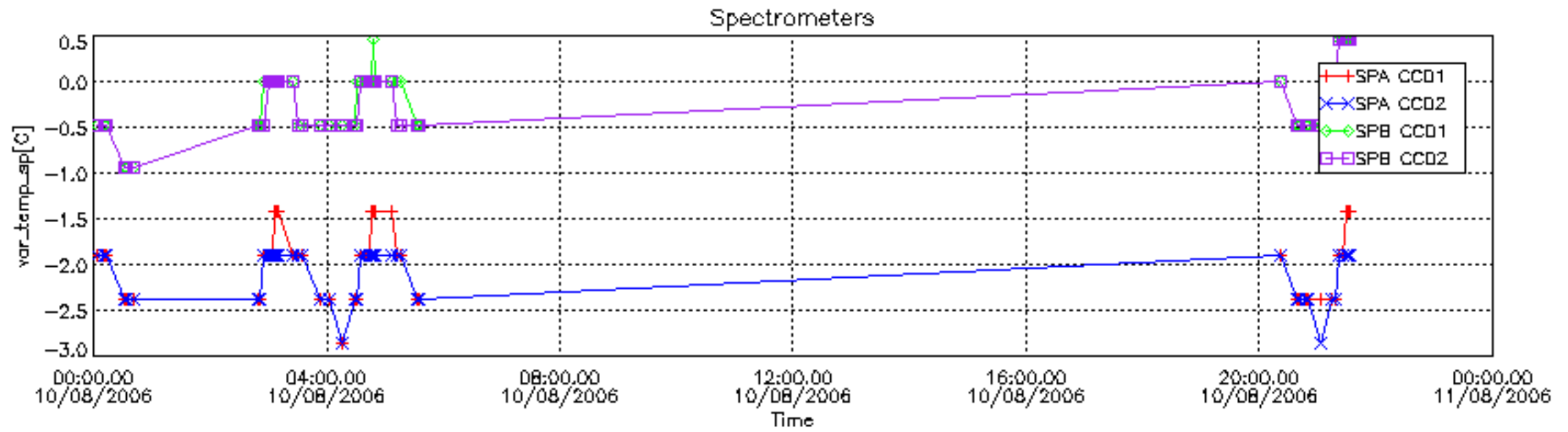
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.



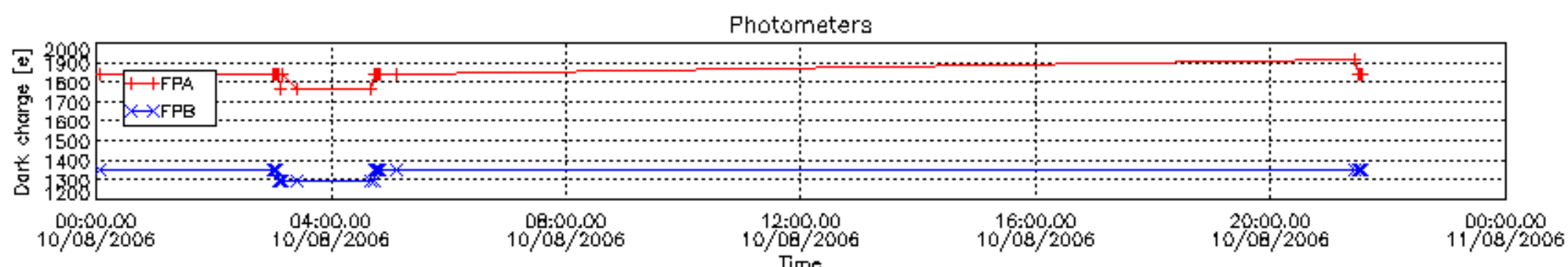
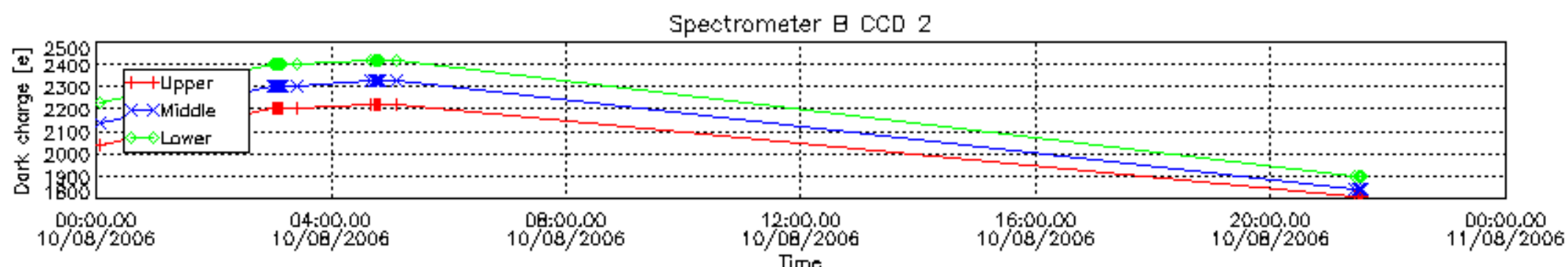
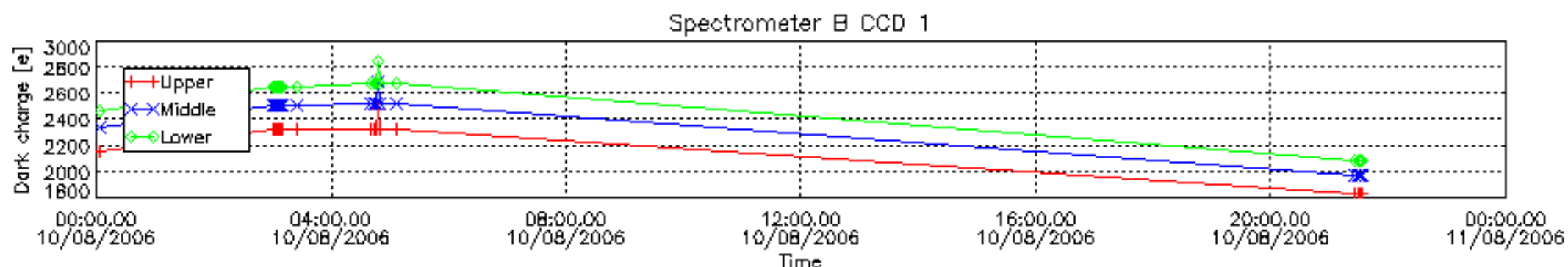
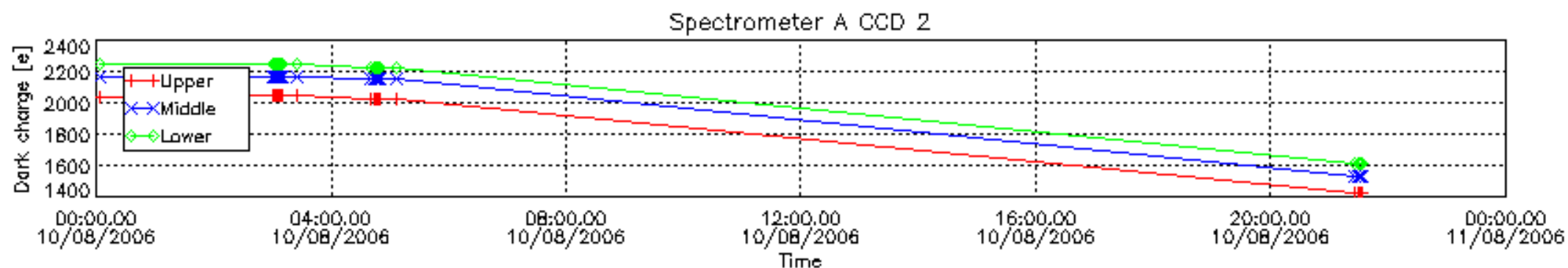
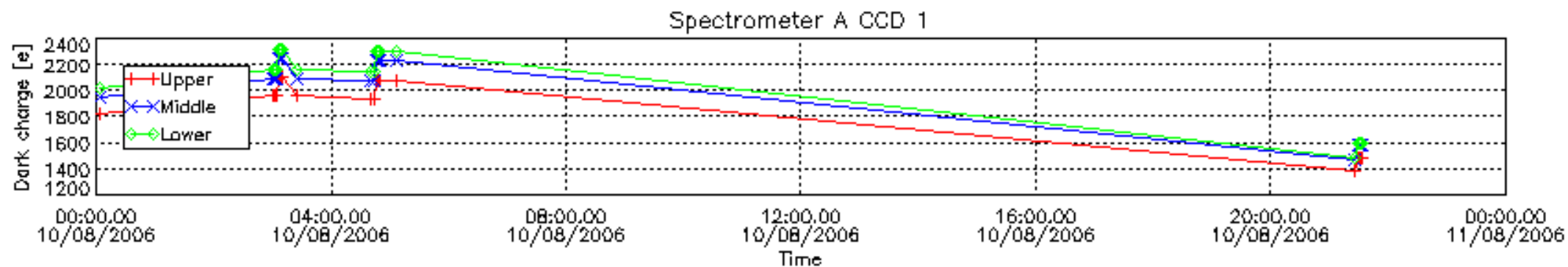
### 8. Auxiliary Data Files used for the production reported in section 2.2

The number reported in the third column indicates since which file (see list in section 2.2) 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	10-AUG-2006 00:04:11
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060808_122114_20050125_224800_20100101_000000	1	10-AUG-2006 00:04:11
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	10-AUG-2006 00:04:11
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	10-AUG-2006 00:04:11
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	10-AUG-2006 00:04:11
ECMWF_FILE	AUX_ECF_AXNECM20060809_085915_20060809_210000_20060810_090000	1	10-AUG-2006 00:04:11
ECMWF_FILE	AUX_ECF_AXNECM20060809_182510_20060810_030000_20060810_150000	24	10-AUG-2006 04:29:08
ECMWF_FILE	AUX_ECF_AXNECM20060810_084508_20060810_150000_20060811_030000	38	10-AUG-2006 20:21:13
OPTIONAL_ECMWF_FILE	MISSING	1	10-AUG-2006 00:04:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060809_220045_000057382050_00129_23229_0310.N1	1	10-AUG-2006 00:04:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060810_012239_000038252050_00131_23231_0312.N1	8	10-AUG-2006 02:48:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060810_023143_000060562050_00132_23232_0313.N1	24	10-AUG-2006 04:29:08
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20060809_235450_20060809_185544_20060819_202156	38	10-AUG-2006 20:21:13

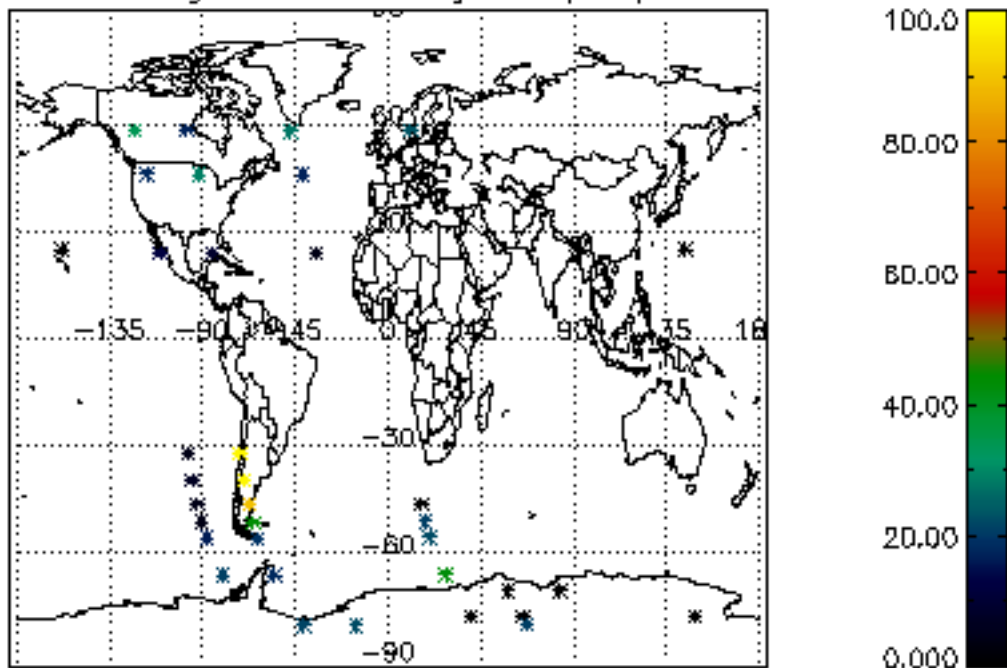




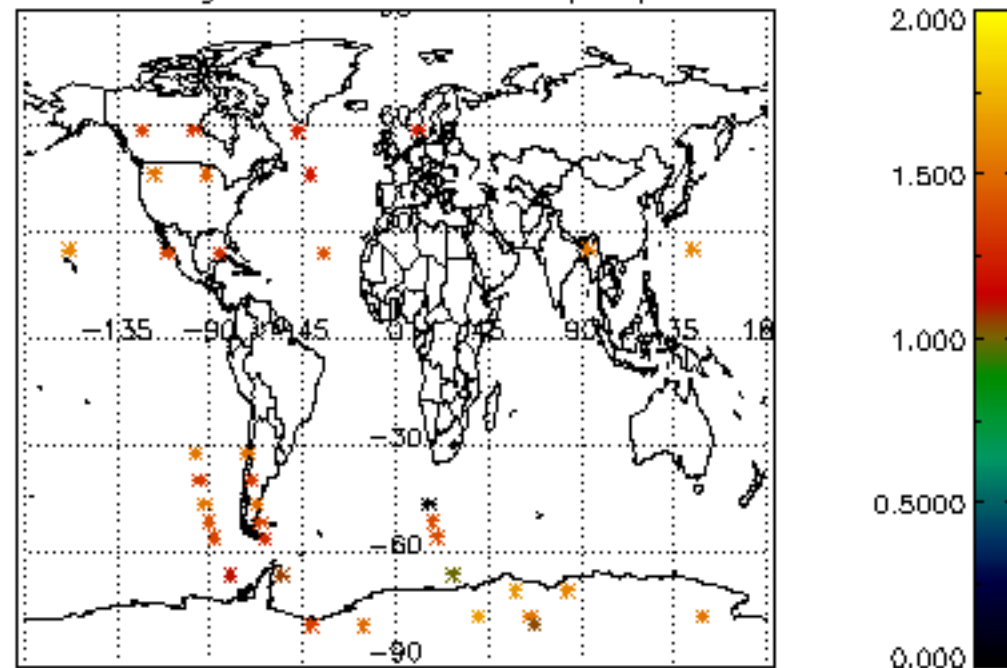




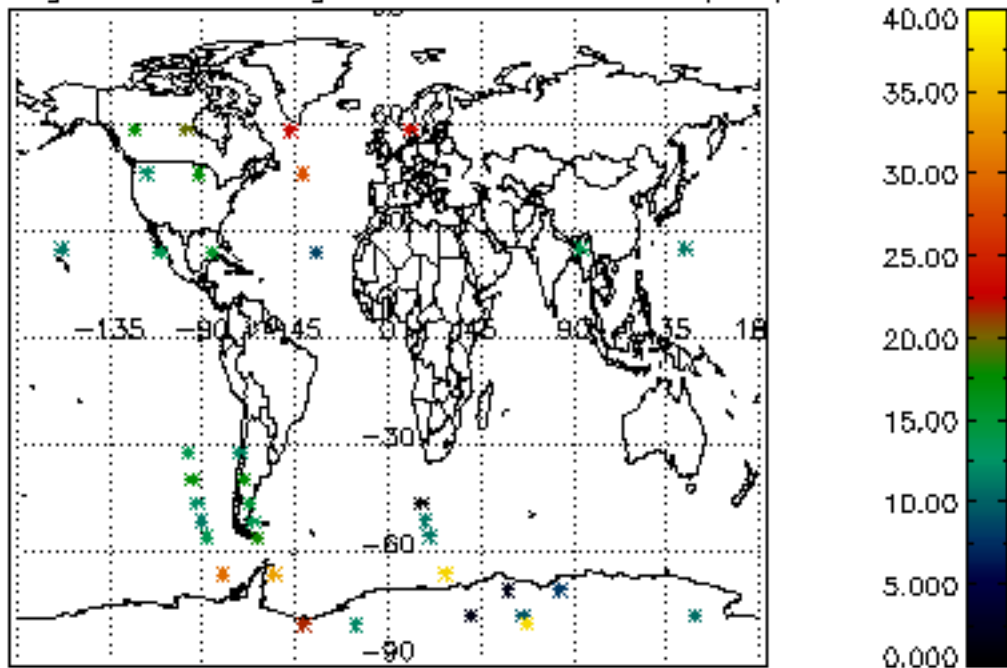
Percentage of cosmic ray hits per profile



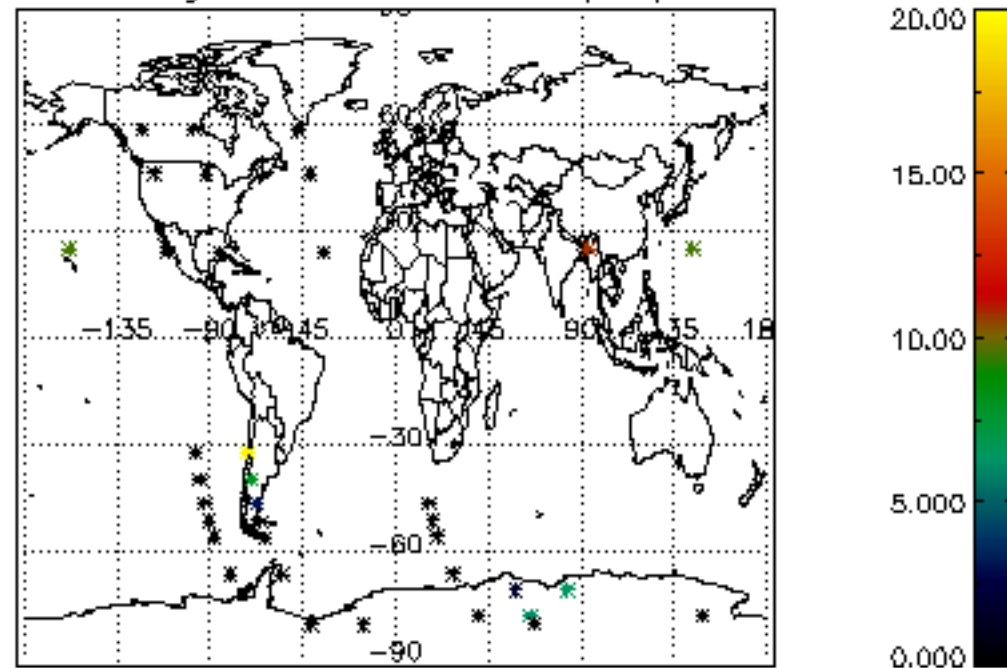
Percentage of datation errors per profile



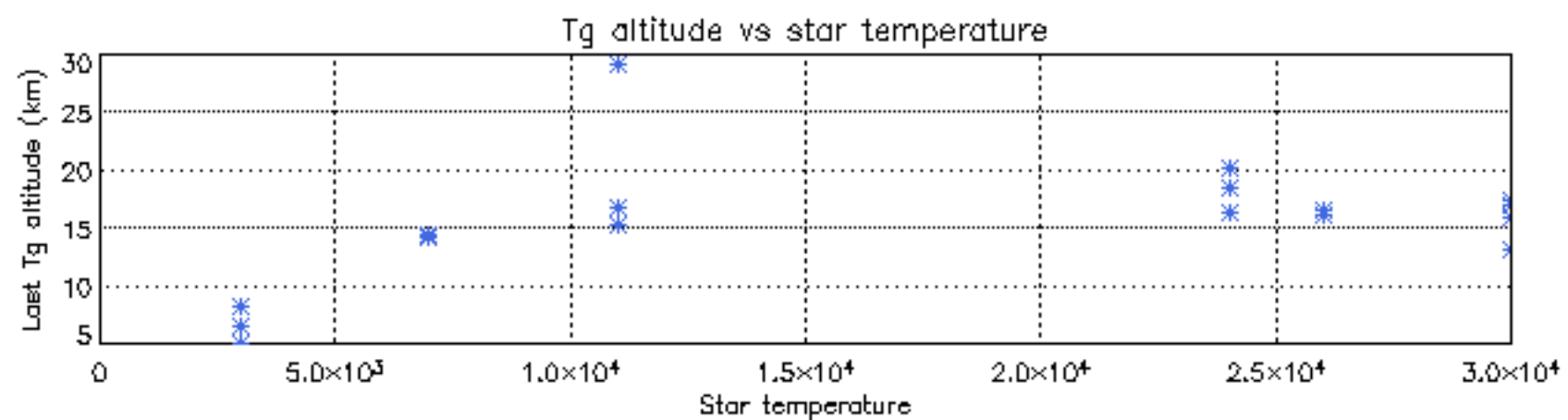
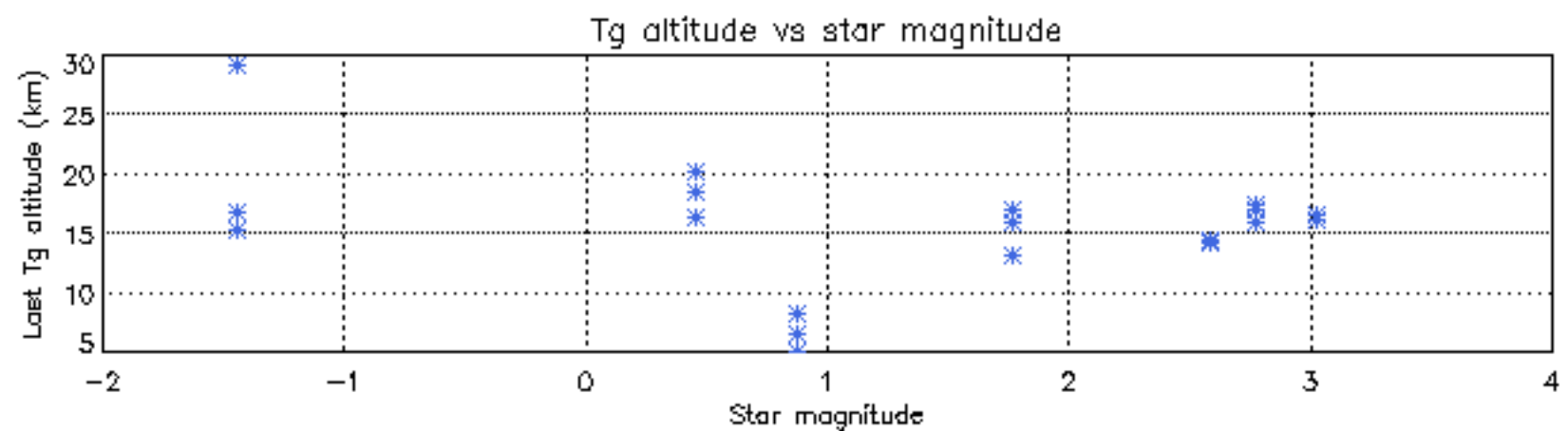
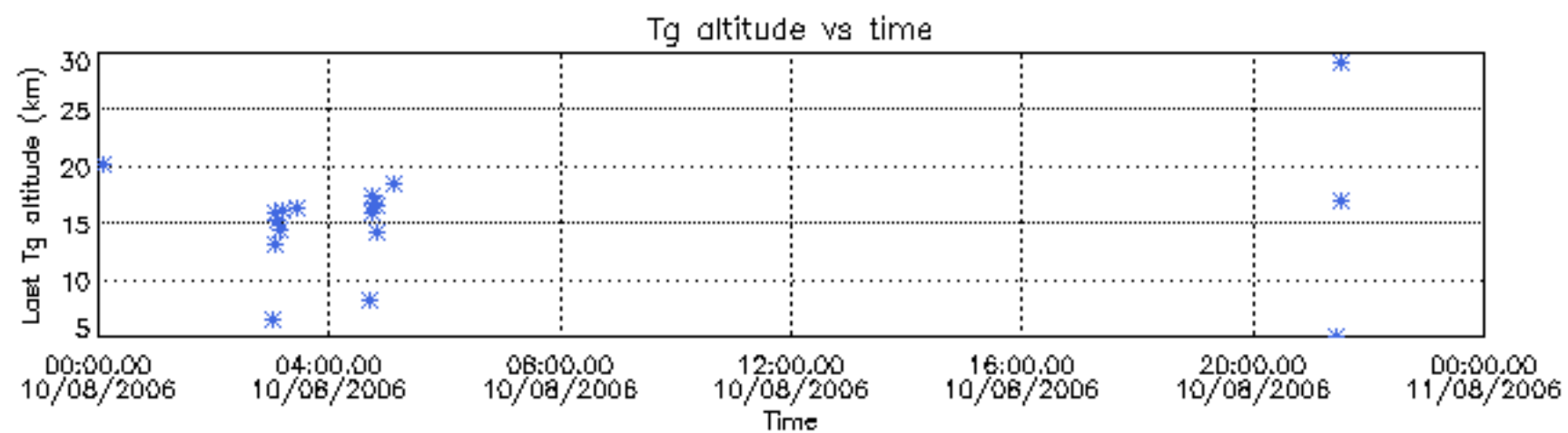
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

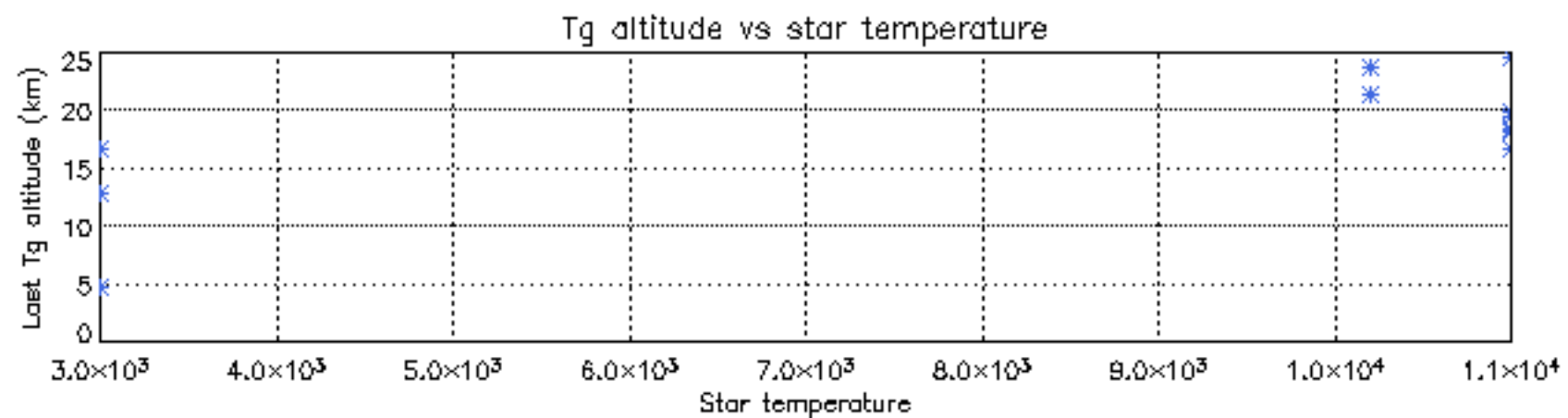
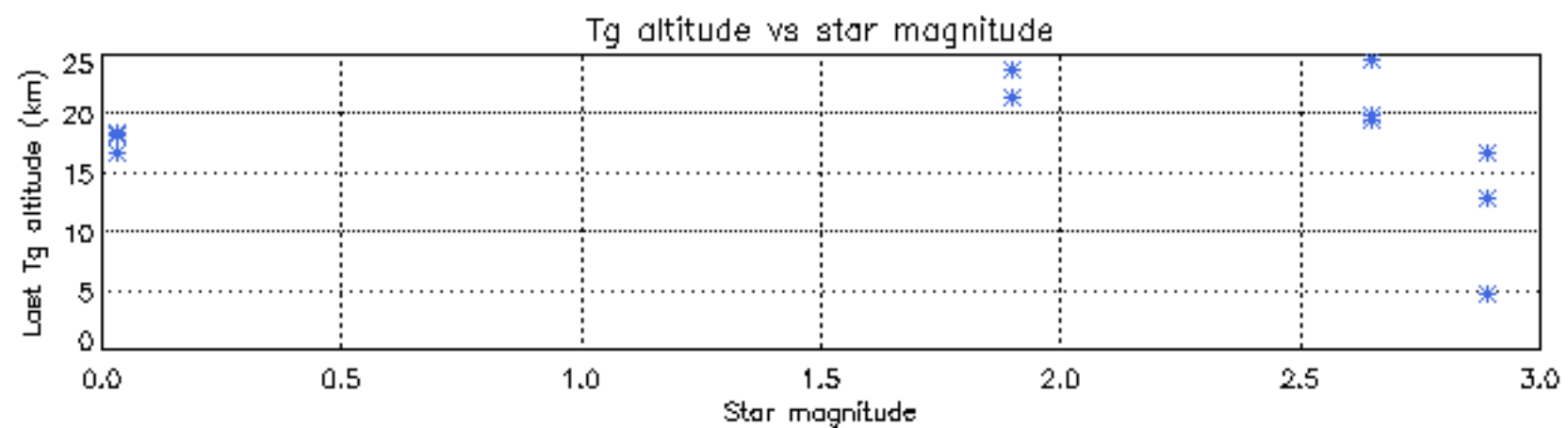
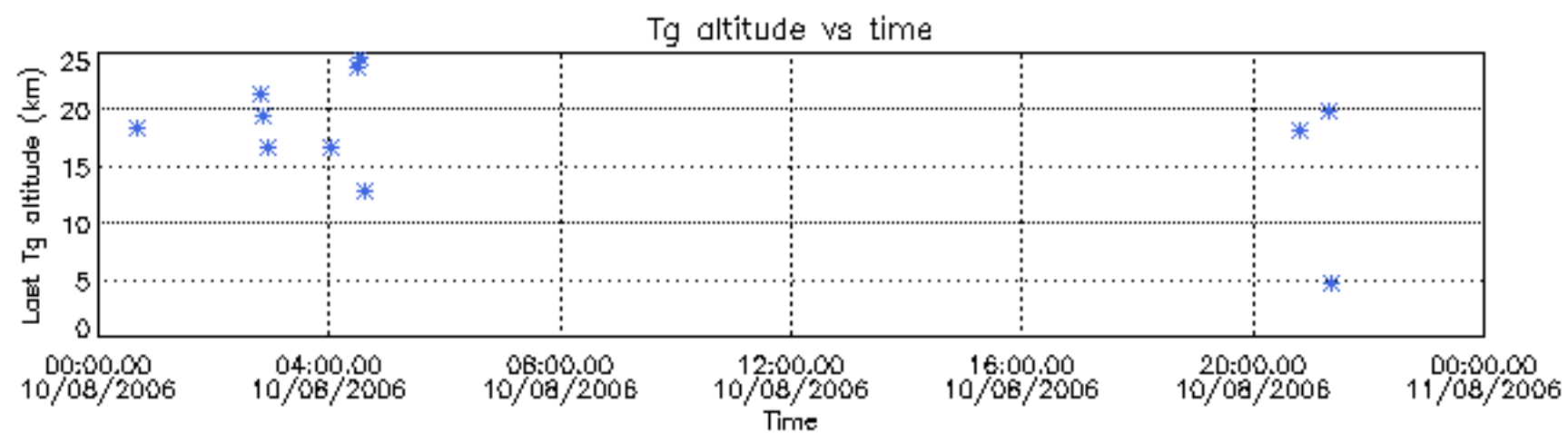


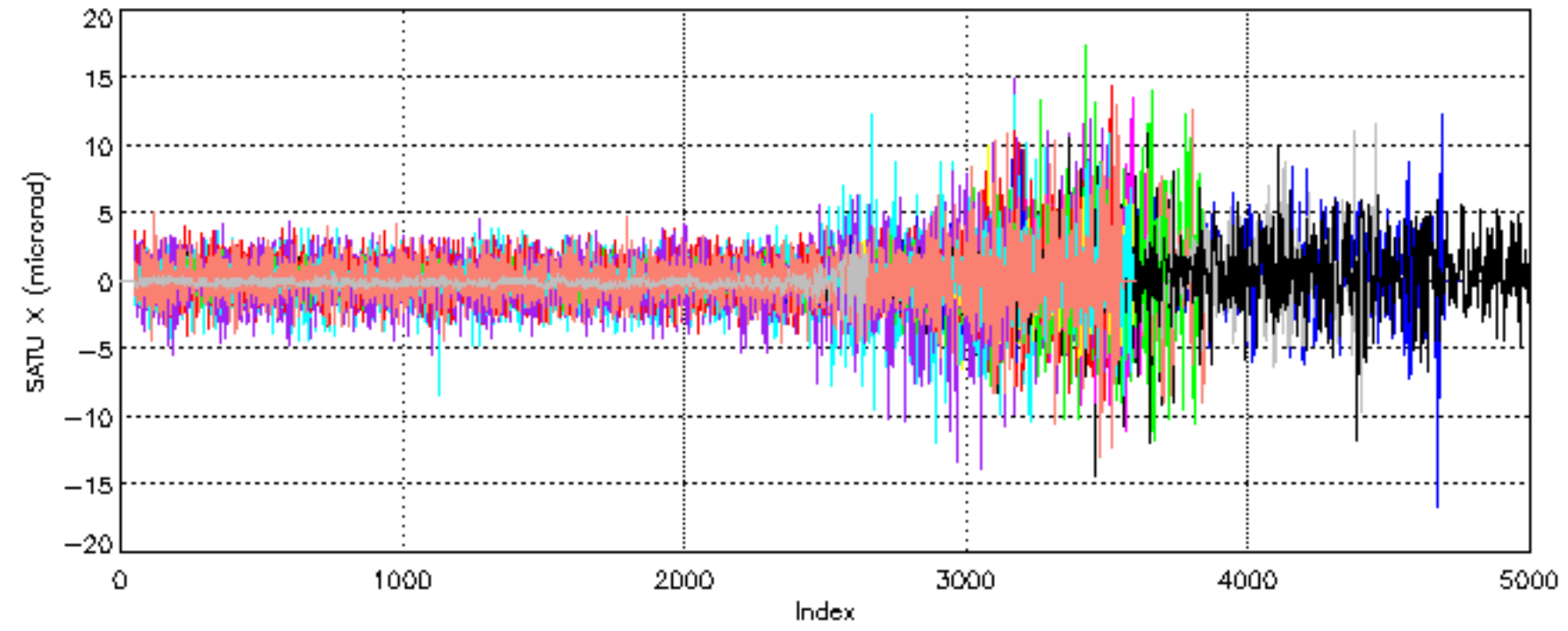
Tangent altitude at which the star is lost

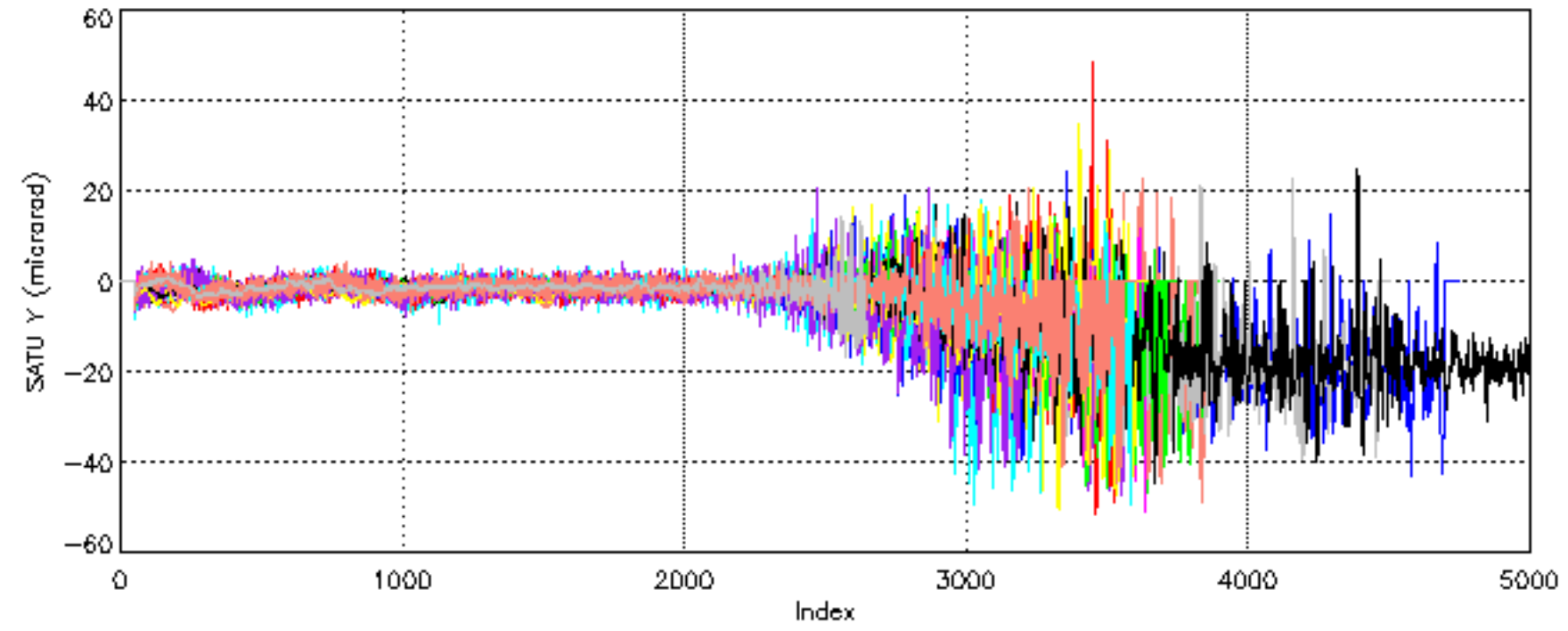


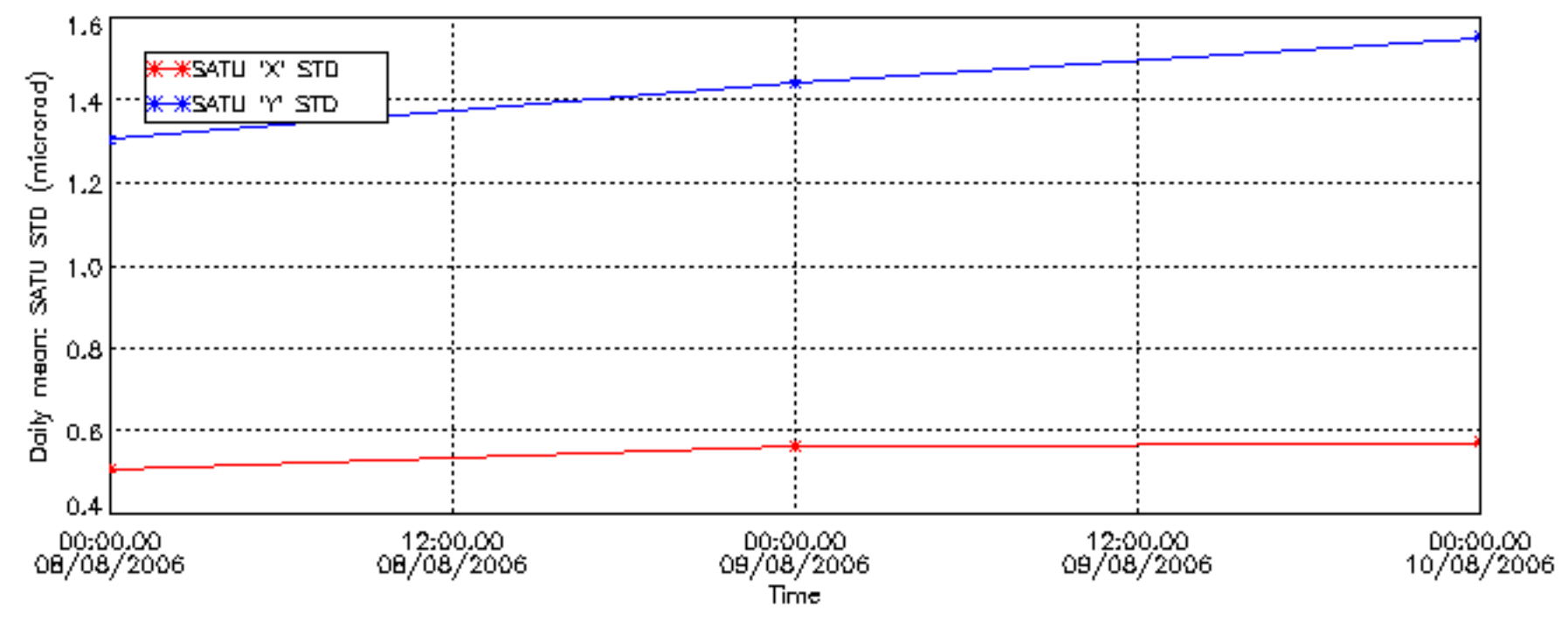


Tangent altitude at which the star is lost











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5; 6759.1; 01-AUG-2006 01:32:56; Dark ; 35.0; 148; Alp Tuc ; 2.88; 4100;occ; 70; 0;23102
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7; 7149.2; 01-AUG-2006 01:39:26; Dark ; 38.5; 172; Gam Gru ; 3.00; 13100;occ; 77; 0;23102
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11; 9134.3; 01-AUG-2006 02:12:31; Bright; 32.5; 89; 5Alp Cep ; 2.45; 8000;occ; 65; 0;23102
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3;-1515.5; 01-AUG-2006 02:36:13; Dark ; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;23103
4;-1391.1; 01-AUG-2006 02:38:18; Dark ; 33.5; 176; 23Zet Tau ; 3.02; 22000;occ; 67; 0;23103
5;-1171.5; 01-AUG-2006 02:41:57; Dark ; 46.0; 14; 58Alp Ori ; 0.87; 3000;occ; 92; 0;23103
6;-1006.2; 01-AUG-2006 02:44:43; Dark ; 33.5; 30; 46Eps Ori ; 1.69; 30000;occ; 67; 0;23103
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8; 5178.6; 01-AUG-2006 06:08:23; Dark ; 35.5; 7; 19Bet Ori ; 0.10; 14000;occ; 71; 0;23105
9; 5309.3; 01-AUG-2006 06:10:34; Dark ; 36.0; 101; 11Alp Lep ; 2.58; 7000;occ; 72; 0;23105
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15; 7150.8; 01-AUG-2006 06:41:16; Dark ; 38.5; 172; Gam Gru ; 3.00; 13100;occ; 77; 0;23105
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12; -406.7; 18-AUG-2006 14:04:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23353
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16; 1032.6; 18-AUG-2006 14:28:22; Dark ; 39.0; 31; Alp Gru ; 1.73; 15200;occ; 78; 0;23354
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 18; 818.1; 18-AUG-2006 17:45:59; Dark ; 34.0; 148; Alp Tuc ; 2.88; 4100;occ; 68; 0;23356  
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