

# GOMOS Daily Report 28-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	30AUG2006 04:32:08
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (28AUG2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (29AUG2006 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	48
Nb of prods with errors	0

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

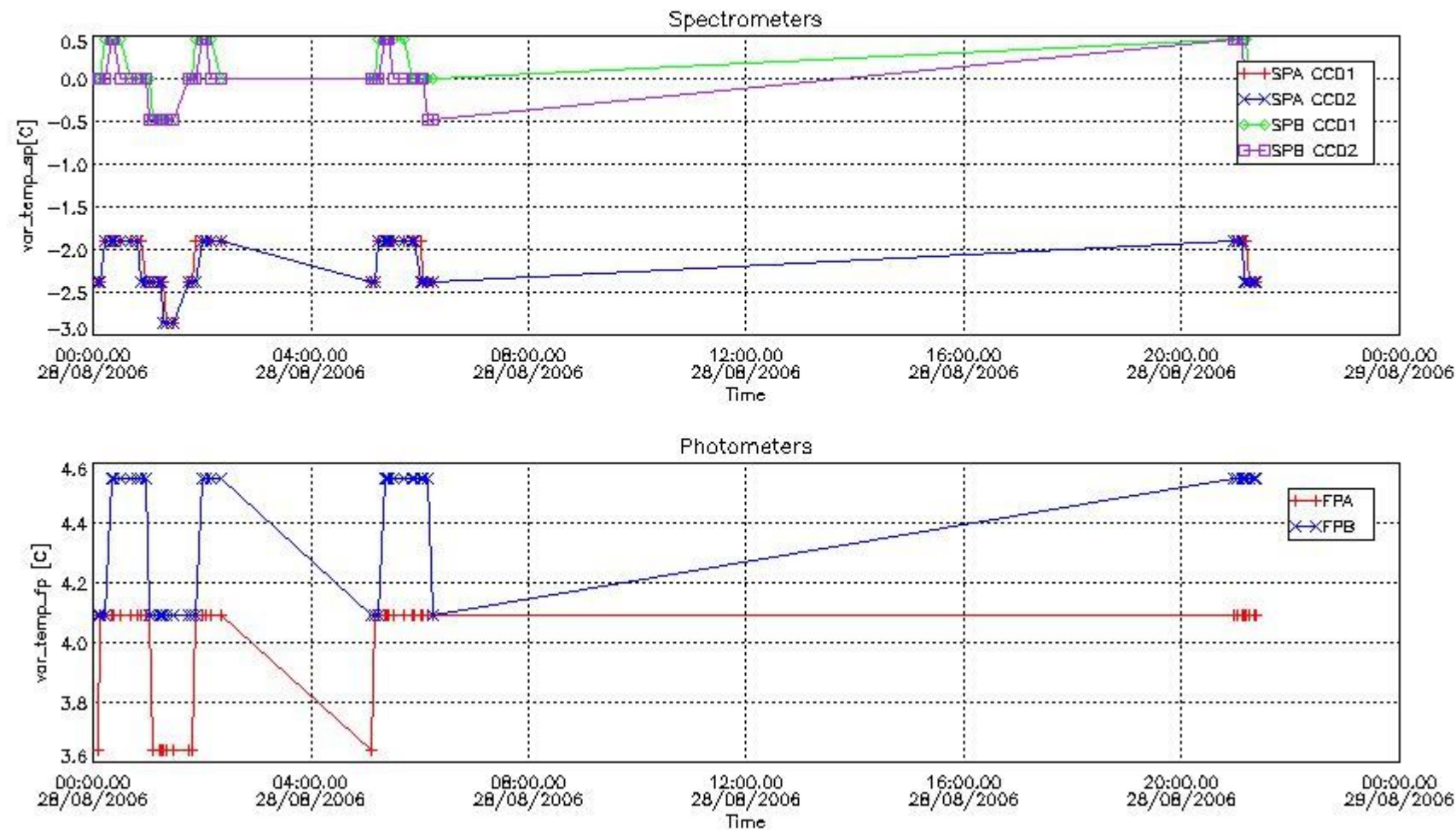
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 2.2 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_1PNPDE20060828_000526_000000542050_00388_23488_1104.N1	28-AUG-2006 00:05:26	Bright	54.000	24	66Alp Gem	1.5800	10200.	108	23488	No
2	GOM_TRA_1PNPDE20060828_000800_000000452050_00388_23488_1105.N1	28-AUG-2006 00:08:00	Bright	44.500	170	27Eps Gem	3.0000	9700.0	89	23488	No
3	GOM_TRA_1PNPDE20060828_001300_000000402050_00388_23488_1106.N1	28-AUG-2006 00:13:00	Twilight	40.000	8	10Alp CMi	0.40000	6500.0	80	23488	No
4	GOM_TRA_1PNPDE20060828_002022_000000382050_00388_23488_1107.N1	28-AUG-2006 00:20:22	Dark	37.500	1	9Alp CMa	-1.4400	11000.	75	23488	No
5	GOM_TRA_1PNPDE20060828_002145_000000422050_00388_23488_1090.N1	28-AUG-2006 00:21:45	Dark	41.500	179	24Omi2CMa	3.0320	24000.	83	23488	No
6	GOM_TRA_1PNPDE20060828_002313_000000442050_00388_23488_1091.N1	28-AUG-2006 00:23:13	Dark	44.000	23	21Eps CMa	1.5020	26000.	88	23488	No
7	GOM_TRA_1PNPDE20060828_003001_000000492050_00388_23488_1092.N1	28-AUG-2006 00:30:01	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	23488	No
8	GOM_TRA_1PNPDE20060828_004125_000000472050_00389_23489_1093.N1	28-AUG-2006 00:41:25	Dark	46.500	9	Alp Eri	0.45300	24000.	93	23489	No
9	GOM_TRA_1PNPDE20060828_004947_000000442050_00389_23489_1094.N1	28-AUG-2006 00:49:47	Straylight	43.500	31	Alp Gru	1.7340	15200.	87	23489	No
10	GOM_TRA_1PNPDE20060828_005239_000000392050_00389_23489_1095.N1	28-AUG-2006 00:52:39	Straylight	38.500	172	Gam Gru	3.0030	13100.	77	23489	No
11	GOM_TRA_1PNPDE20060828_005849_000000512050_00389_23489_1096.N1	28-AUG-2006 00:58:49	Bright	51.000	142	49Del Cap	2.8500	8900.0	102	23489	No
12	GOM_TRA_1PNPDE20060828_010201_000000402050_00389_23489_1097.N1	28-AUG-2006 01:02:01	Bright	39.500	154	22Bet Aqr	2.8990	5700.0	79	23489	No
13	GOM_TRA_1PNPDE20060828_010638_000000392050_00389_23489_1098.N1	28-AUG-2006 01:06:38	Bright	38.500	61	8Eps Peg	2.1000	3900.0	77	23489	No
14	GOM_TRA_1PNPDE20060828_011324_000000342050_00389_23489_1099.N1	28-AUG-2006 01:13:24	Bright	33.500	92	53Eps Cyg	2.5000	4500.0	67	23489	No
15	GOM_TRA_1PNPDE20060828_011513_000000332050_00389_23489_1100.N1	28-AUG-2006 01:15:13	Bright	33.000	66	37Gam Cyg	2.2080	5900.0	66	23489	No
16	GOM_TRA_1PNPDE20060828_011636_000000342050_00389_23489_1101.N1	28-AUG-2006 01:16:36	Bright	34.000	19	50Alp Cyg	1.2460	10500.	68	23489	No
17	GOM_TRA_1PNPDE20060828_012141_000000372050_00389_23489_1102.N1	28-AUG-2006 01:21:41	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	23489	No
18	GOM_TRA_1PNPDE20060828_012914_000000352050_00389_23489_1103.N1	28-AUG-2006 01:29:14	Bright	35.000	49	1Alp UMi	1.9900	6300.0	70	23489	No
19	GOM_TRA_1PNPDE20060828_014602_000000542050_00389_23489_1104.N1	28-AUG-2006 01:46:02	Bright	54.000	24	66Alp Gem	1.5800	10200.	108	23489	No
20	GOM_TRA_1PNPDE20060828_014837_000000452050_00389_23489_1105.N1	28-AUG-2006 01:48:37	Bright	45.000	170	27Eps Gem	3.0000	9700.0	90	23489	No
21	GOM_TRA_1PNPDE20060828_015336_000000402050_00389_23489_1106.N1	28-AUG-2006 01:53:36	Twilight	40.000	8	10Alp CMi	0.40000	6500.0	80	23489	No
22	GOM_TRA_1PNPDE20060828_020058_000000512050_00389_23489_1090.N1	28-AUG-2006 02:00:58	Dark	51.000	1	9Alp CMa	-1.4400	11000.	102	23489	No
23	GOM_TRA_1PNPDE20060828_020349_000000412050_00389_23489_1091.N1	28-AUG-2006 02:03:49	Dark	41.000	23	21Eps CMa	1.5020	26000.	82	23489	No
24	GOM_TRA_1PNPDE20060828_021038_000000492050_00389_23489_1092.N1	28-AUG-2006 02:10:38	Dark	49.000	2	Alp Car	-0.73600	7000.0	98	23489	No
25	GOM_TRA_1PNPDE20060828_022202_000000482050_00390_23490_1093.N1	28-AUG-2006 02:22:02	Dark	48.000	9	Alp Eri	0.45300	24000.	96	23490	No
26	GOM_TRA_1PNPDE20060828_050715_000000342050_00391_23491_1095.N1	28-AUG-2006 05:07:15	Bright	34.000	24	66Alp Gem	1.5800	10200.	68	23491	No
27	GOM_TRA_1PNPDE20060828_050949_000000452050_00391_23491_1096.N1	28-AUG-2006 05:09:49	Bright	45.000	170	27Eps Gem	3.0000	9700.0	90	23491	No
28	GOM_TRA_1PNPDE20060828_051448_000000472050_00391_23491_1097.N1	28-AUG-2006 05:14:48	Twilight	47.000	8	10Alp CMi	0.40000	6500.0	94	23491	No
29	GOM_TRA_1PNPDE20060828_052211_000000482050_00391_23491_1098.N1	28-AUG-2006 05:22:11	Dark	47.500	1	9Alp CMa	-1.4400	11000.	95	23491	No
30	GOM_TRA_1PNPDE20060828_052334_000000402050_00391_23491_1099.N1	28-AUG-2006 05:23:34	Dark	39.500	179	24Omi2CMa	3.0320	24000.	79	23491	No
31	GOM_TRA_1PNPDE20060828_052502_000000452050_00391_23491_1100.N1	28-AUG-2006 05:25:02	Dark	44.500	23	21Eps CMa	1.5020	26000.	89	23491	No
32	GOM_TRA_1PNPDE20060828_052633_000000412050_00391_23491_1101.N1	28-AUG-2006 05:26:33	Dark	41.000	177	1Zet CMa	3.0220	26000.	82	23491	No
33	GOM_TRA_1PNPDE20060828_053150_000000532050_00391_23491_1102.N1	28-AUG-2006 05:31:50	Dark	53.000	2	Alp Car	-0.73600	7000.0	106	23491	No
34	GOM_TRA_1PNPDE20060828_054315_000000422050_00392_23492_1103.N1	28-AUG-2006 05:43:15	Dark	42.000	9	Alp Eri	0.45300	24000.	84	23492	No
35	GOM_TRA_1PNPDE20060828_055136_000000422050_00392_23492_1104.N1	28-AUG-2006 05:51:36	Straylight	41.500	31	Alp Gru	1.7340	15200.	83	23492	No
36	GOM_TRA_1PNPDE20060828_055427_000000382050_00392_23492_1105.N1	28-AUG-2006 05:54:27	Straylight	37.500	172	Gam Gru	3.0030	13100.	75	23492	No
37	GOM_TRA_1PNPDE20060828_060038_000000472050_00392_23492_1106.N1	28-AUG-2006 06:00:38	Bright	46.500	142	49Del Cap	2.8500	8900.0	93	23492	No
38	GOM_TRA_1PNPDE20060828_060349_000000392050_00392_23492_1107.N1	28-AUG-2006 06:03:49	Bright	39.000	154	22Bet Aqr	2.8990	5700.0	78	23492	No
39	GOM_TRA_1PNPDE20060828_060826_000000392050_00392_23492_1108.N1	28-AUG-2006 06:08:26	Bright	38.500	61	8Eps Peg	2.1000	3900.0	77	23492	No
40	GOM_TRA_1PNPDE20060828_061512_000000352050_00392_23492_1109.N1	28-AUG-2006 06:15:12	Bright	35.000	92	53Eps Cyg	2.5000	4500.0	70	23492	No
41	GOM_TRA_1PNPDE20060828_205701_000000412050_00401_23501_1097.N1	28-AUG-2006 20:57:01	Straylight	41.000	31	Alp Gru	1.7340	15200.	82	23501	No
42	GOM_TRA_1PNPDE20060828_210105_000000252050_00401_23501_1098.N1	28-AUG-2006 21:01:05	Straylight	25.000	18	24Alp PsA	1.1660	9700.0	50	23501	No

43	GOM_TRA_1PNPDE20060828_210602_000000442050_00401_23501_1099.N1	28-AUG-2006 21:06:02	Bright	44.000	142	49Del Cap	2.8500	8900.0	88	23501	No
44	GOM_TRA_1PNPDE20060828_210913_000000382050_00401_23501_1100.N1	28-AUG-2006 21:09:13	Bright	38.000	154	22Bet Aqr	2.8990	5700.0	76	23501	No
45	GOM_TRA_1PNPDE20060828_211047_000000422050_00401_23501_1101.N1	28-AUG-2006 21:10:47	Bright	41.500	162	34Alp Aqr	2.9440	5350.0	83	23501	No
46	GOM_TRA_1PNPDE20060828_211348_000000392050_00401_23501_1102.N1	28-AUG-2006 21:13:48	Bright	39.000	61	8Eps Peg	2.1000	3900.0	78	23501	No
47	GOM_TRA_1PNPDE20060828_212036_000000342050_00401_23501_1103.N1	28-AUG-2006 21:20:36	Bright	34.000	92	53Eps Cyg	2.5000	4500.0	68	23501	No
48	GOM_TRA_1PNPDE20060828_212225_000000362050_00401_23501_1104.N1	28-AUG-2006 21:22:25	Bright	35.500	66	37Gam Cyg	2.2080	5900.0	71	23501	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.

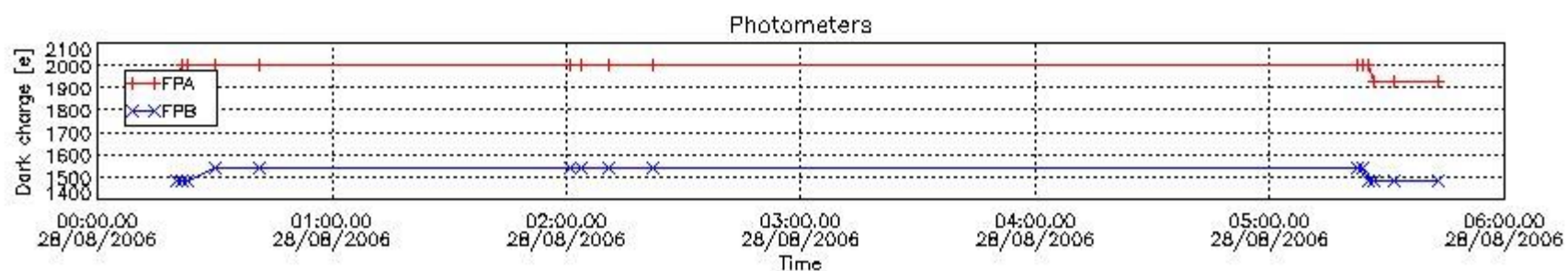
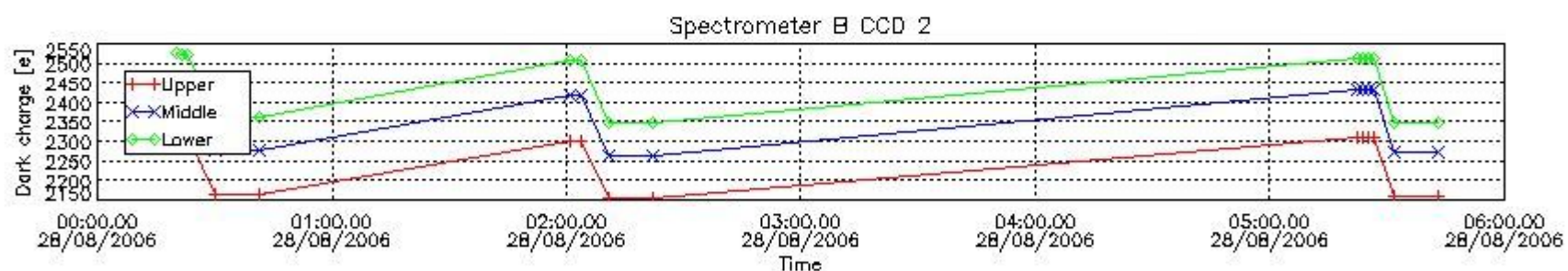
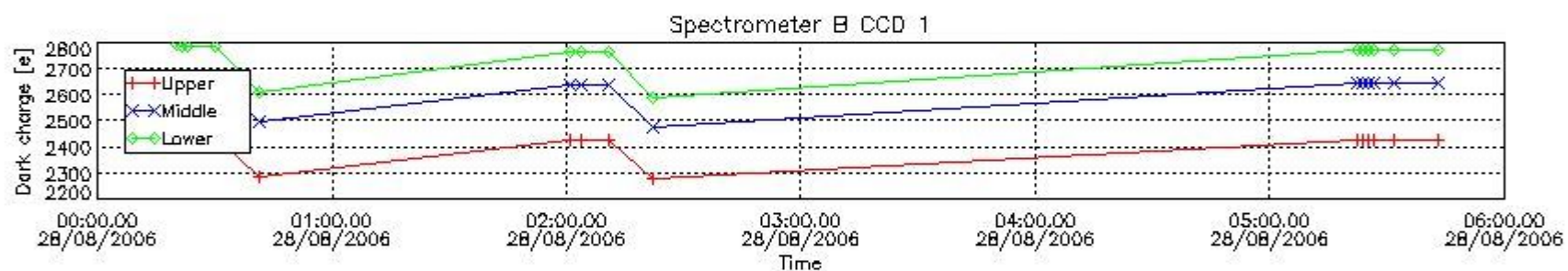
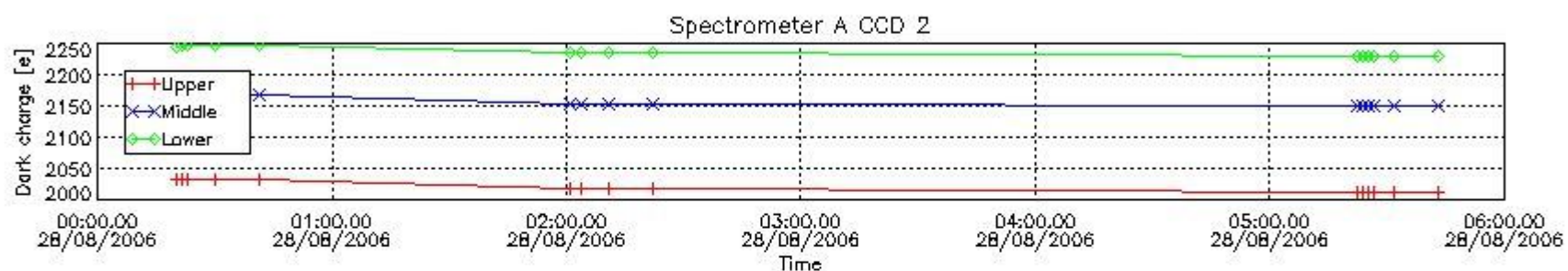
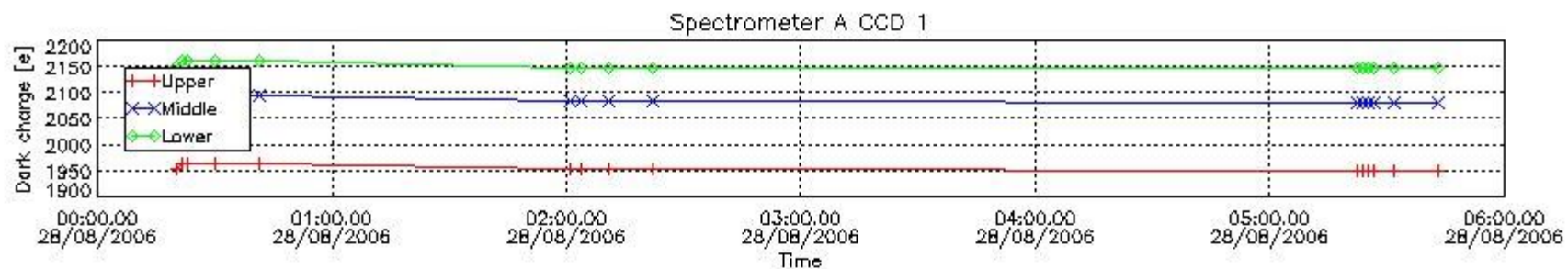
#### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20060828_205701_000000412050_00401_23501_1097.N1	DC map used
GOM_TRA_1PNPDE20060828_210105_000000252050_00401_23501_1098.N1	DC map used
GOM_TRA_1PNPDE20060828_210602_000000442050_00401_23501_1099.N1	DC map used
GOM_TRA_1PNPDE20060828_210913_000000382050_00401_23501_1100.N1	DC map used



GOM_TRA_1PNPDE20060828_211047_000000422050_00401_23501_1101.N1	DC map used
GOM_TRA_1PNPDE20060828_211348_000000392050_00401_23501_1102.N1	DC map used
GOM_TRA_1PNPDE20060828_212036_000000342050_00401_23501_1103.N1	DC map used
GOM_TRA_1PNPDE20060828_212225_000000362050_00401_23501_1104.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

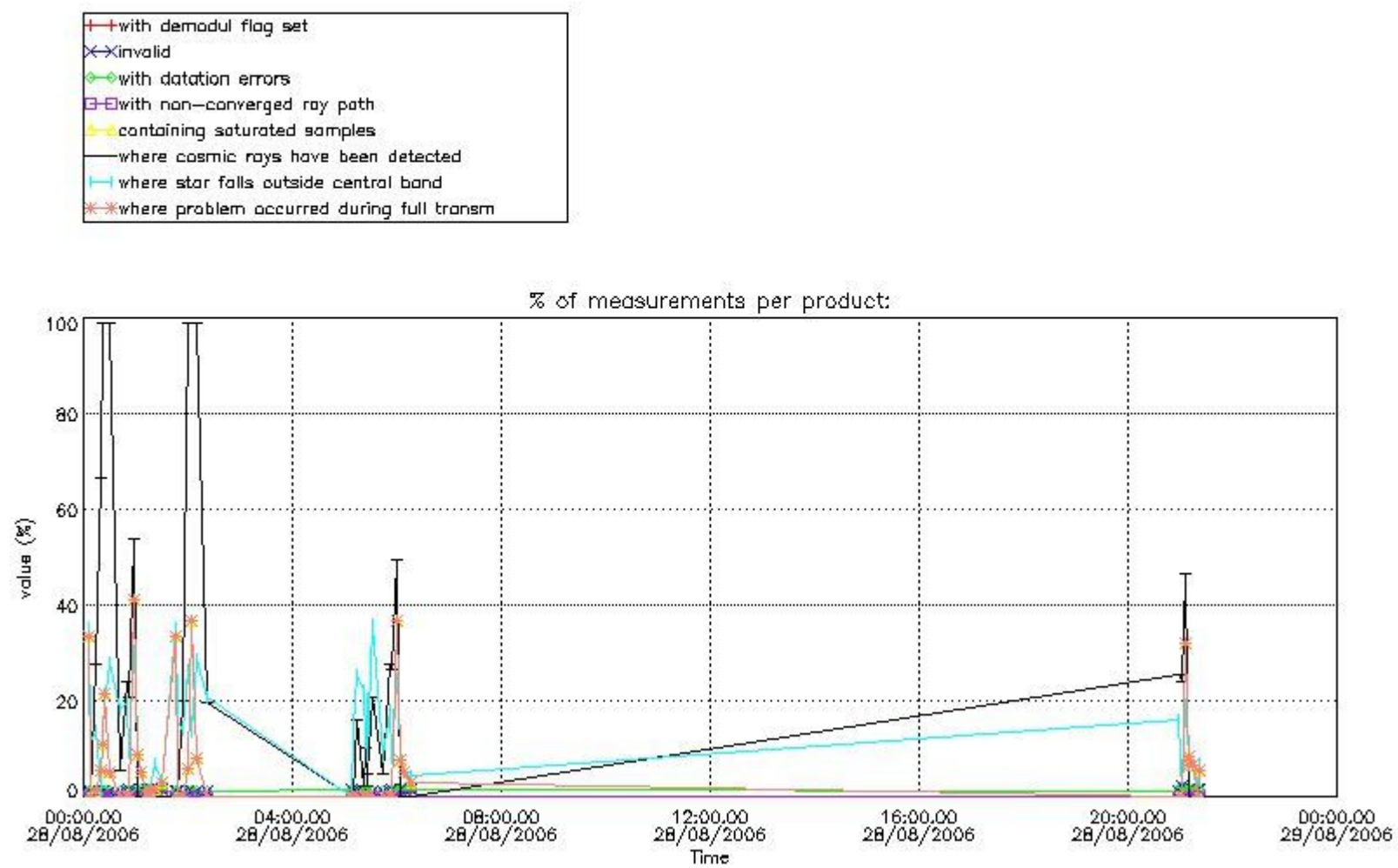
In this section it is presented the modulation information extracted from the pcd (product confidence data)

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:*

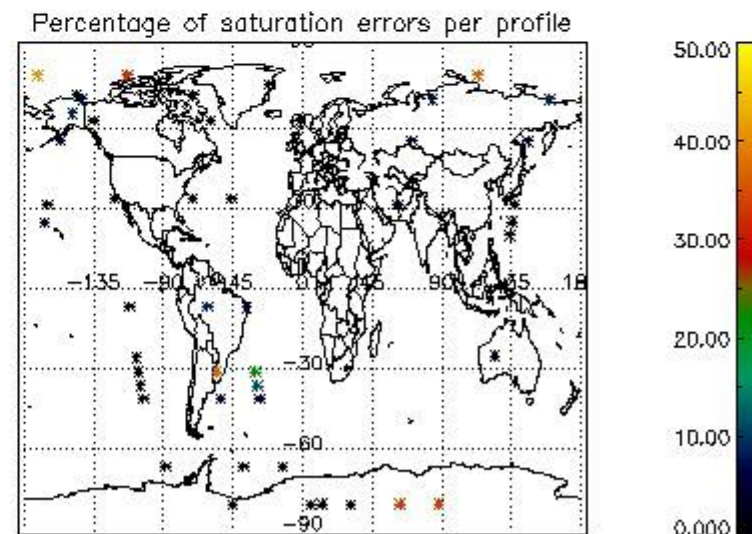
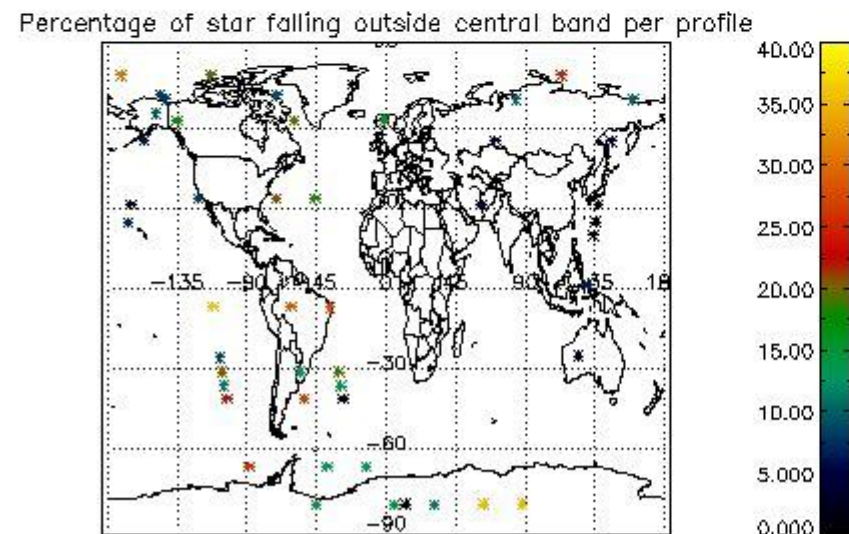
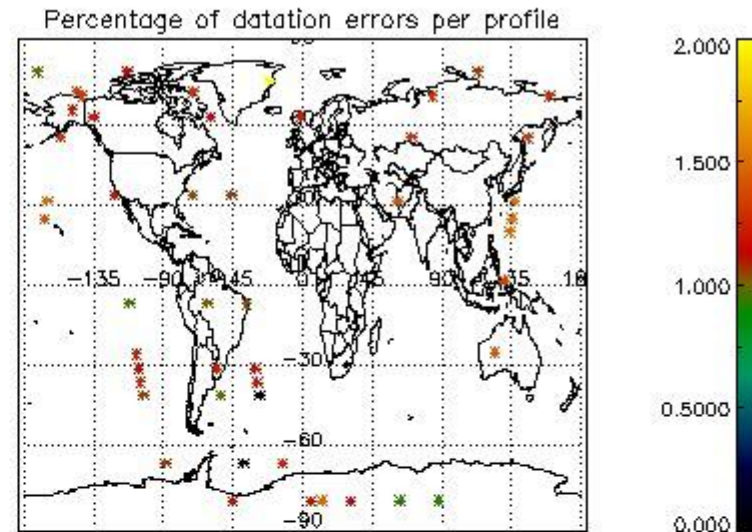
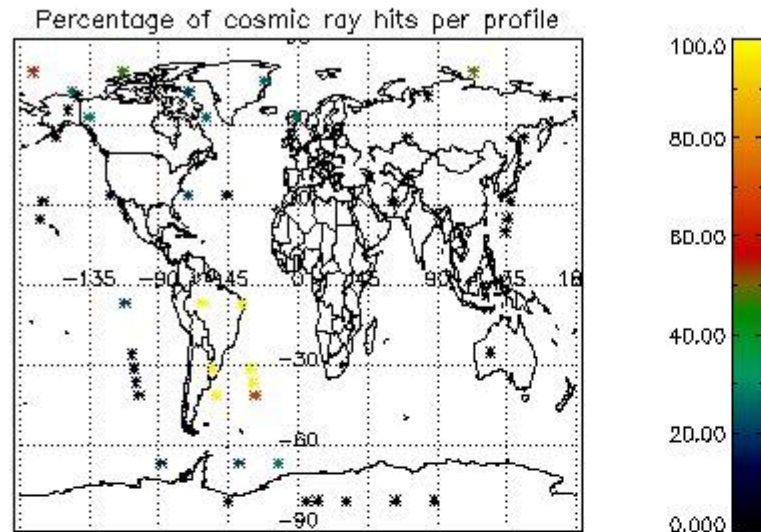
At least one measurement with demodulation flag set:	18.7500 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





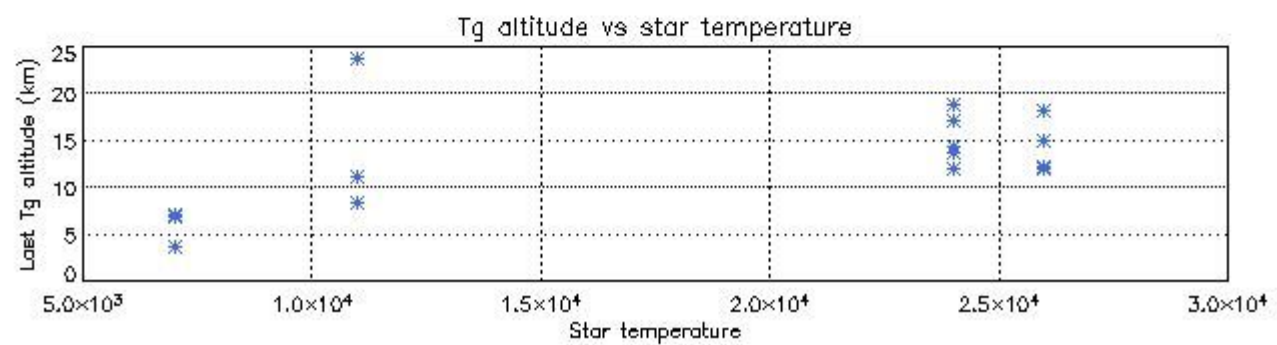
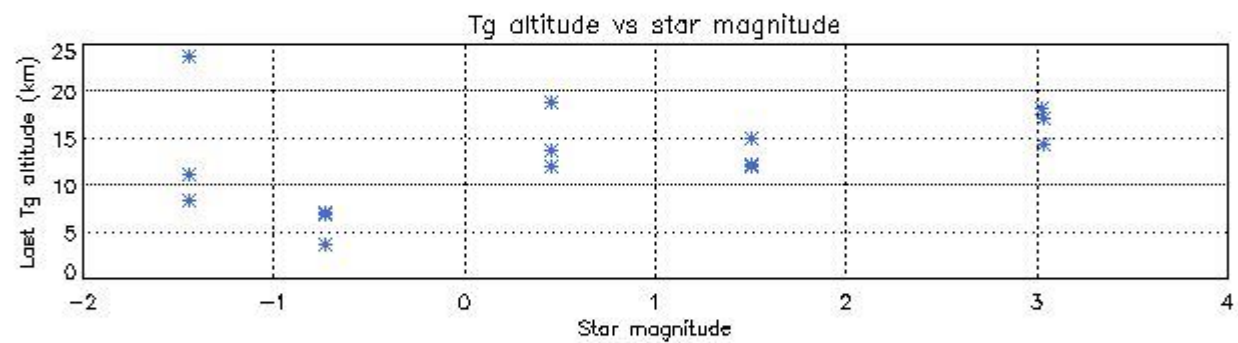
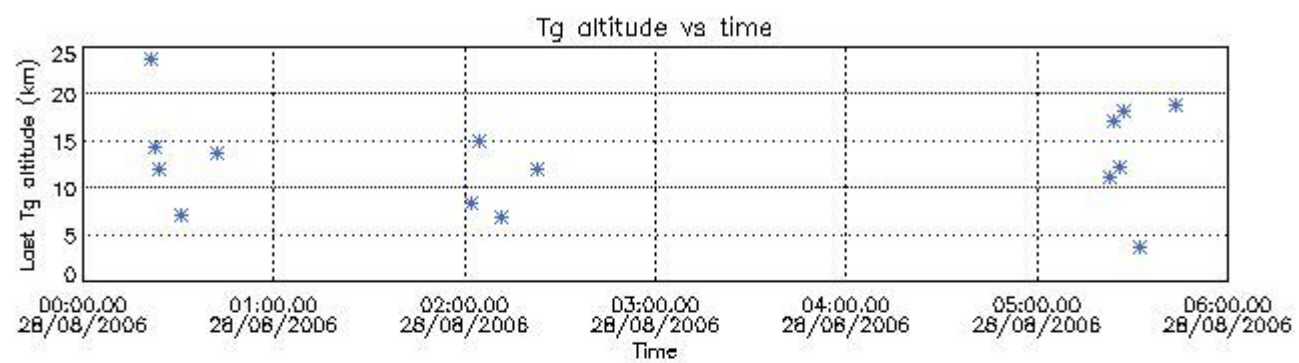
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.925	17.803	12.452
St. deviation:	5.2327	6.5814	3.5565
Maximum:	23.656	26.460	14.537
Minimum:	3.6762	3.9185	8.3460
Number of data:	15.000	24.000	3.0000

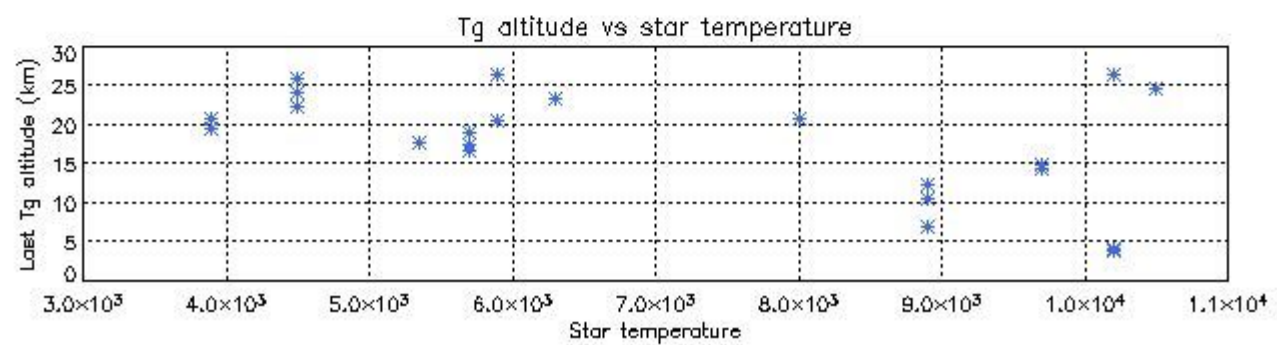
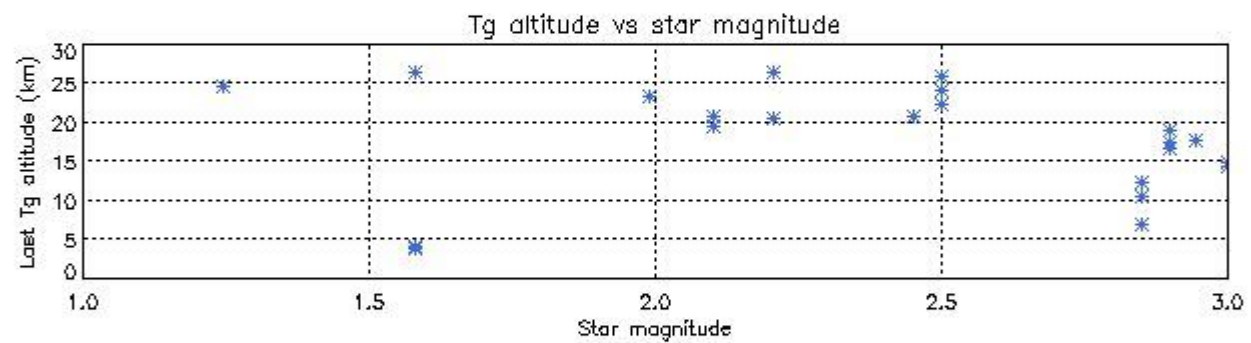
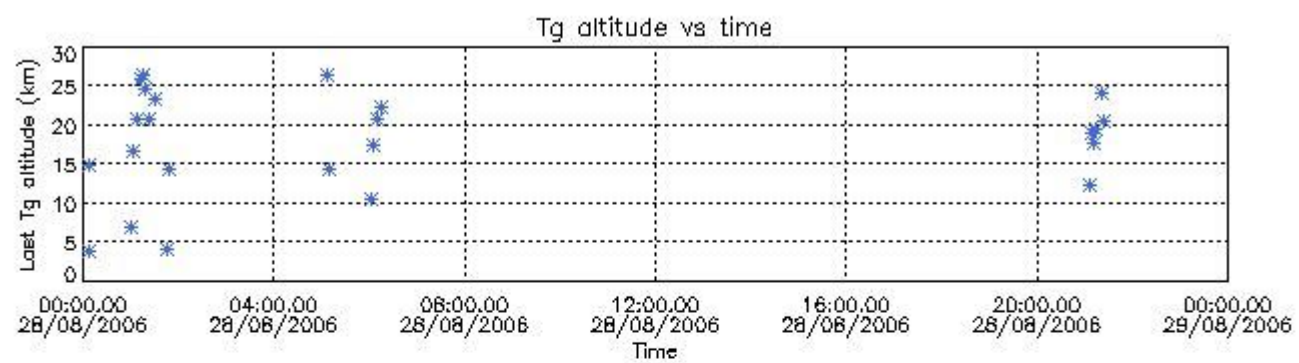
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

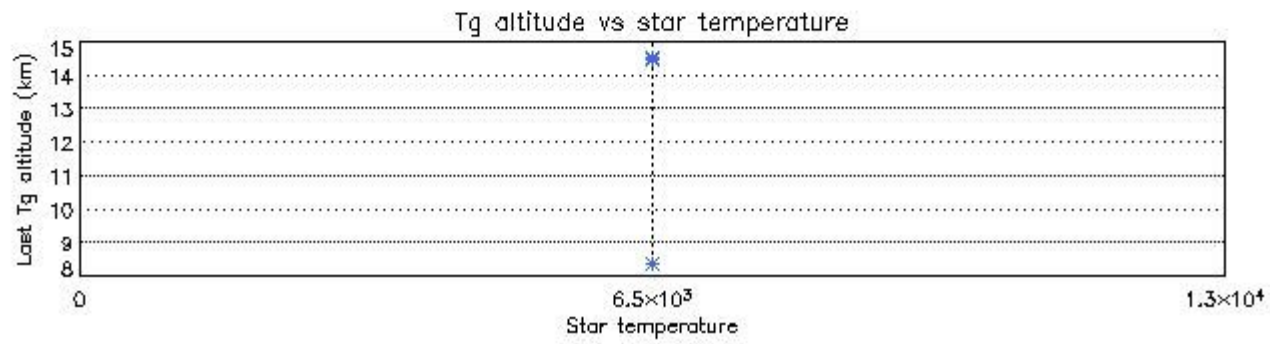
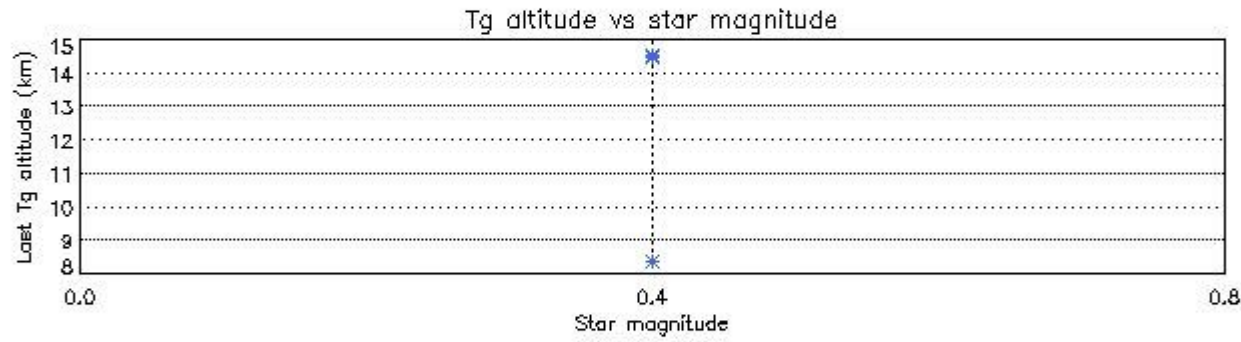
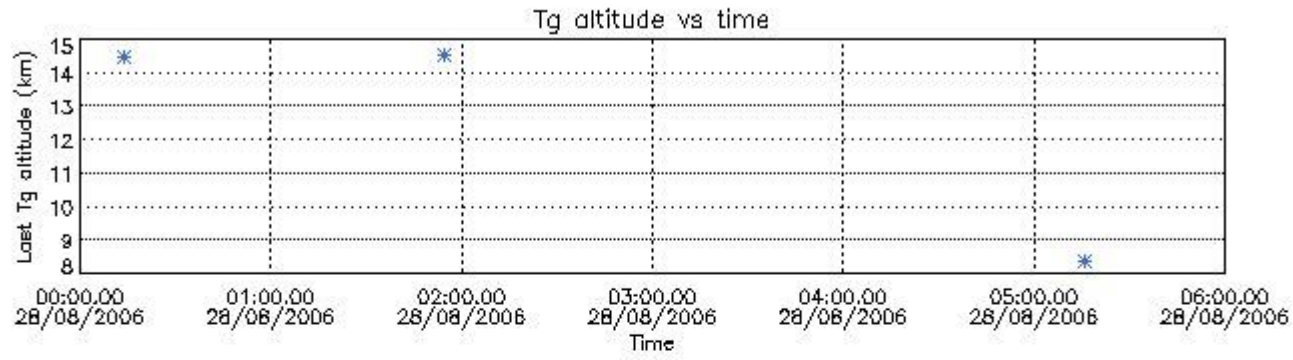
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



Tangent altitude at which the star is lost

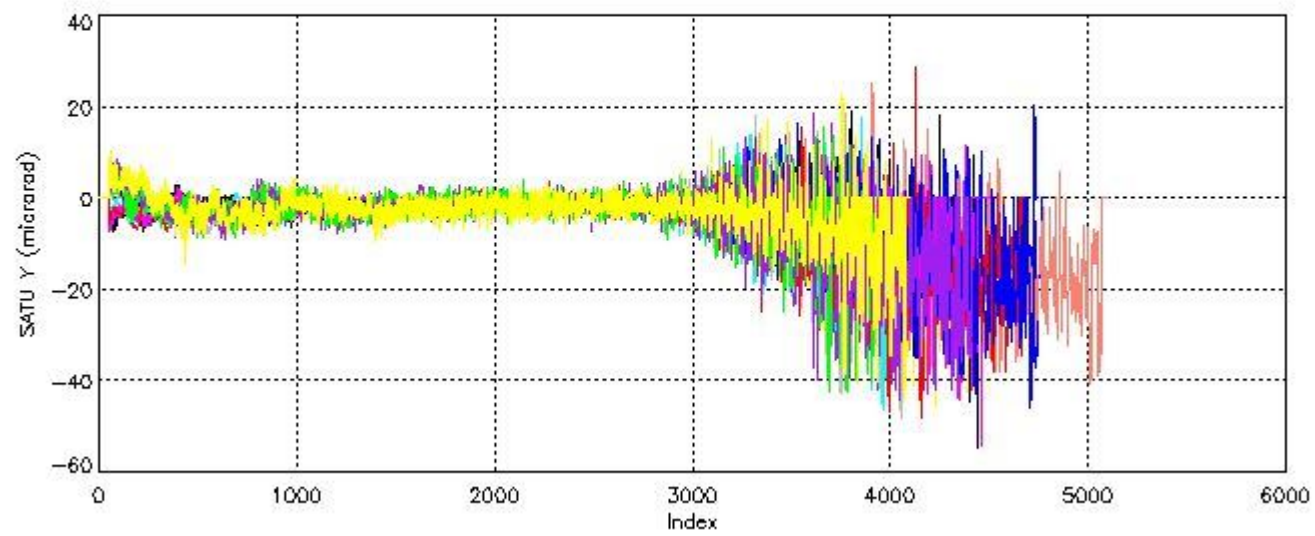
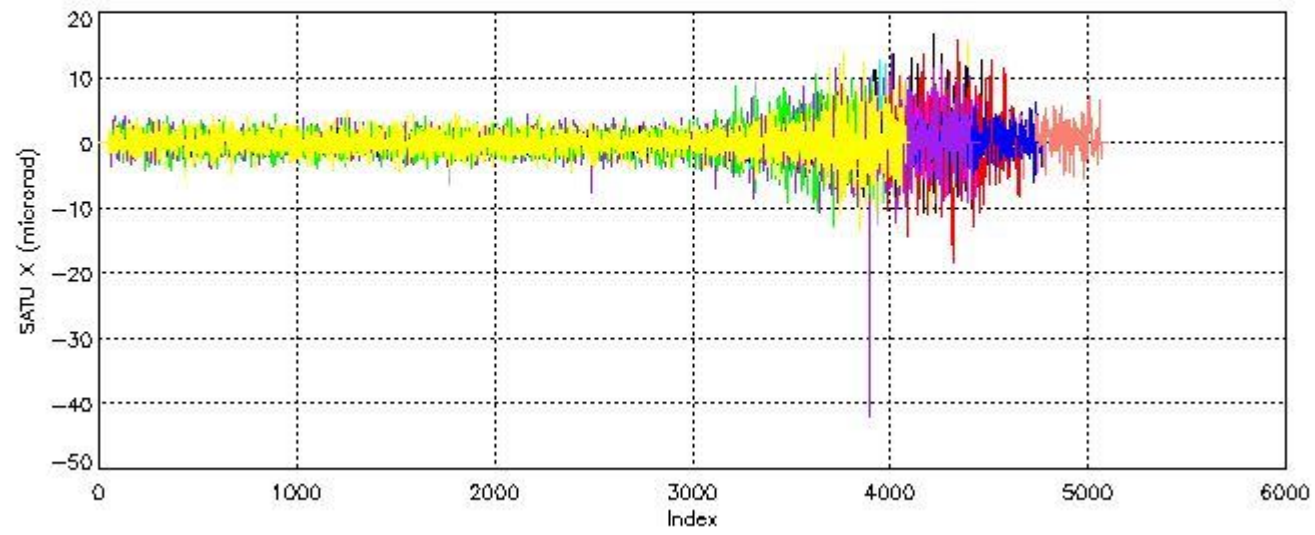


## 7. Star Acquisition and Tracking Unit (SATU)

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.

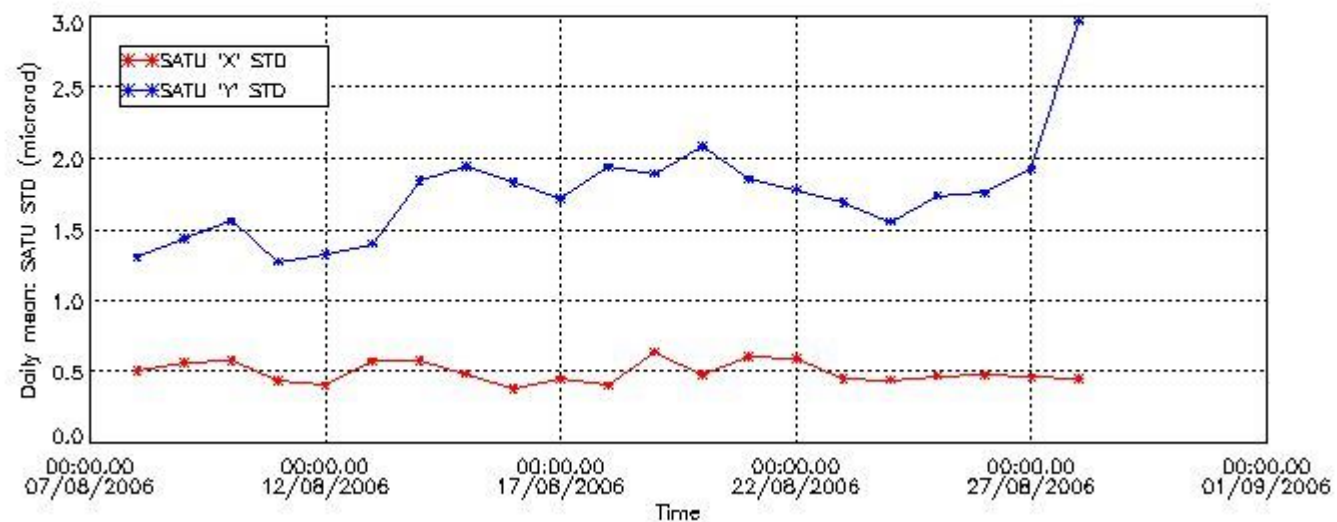
### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.090845	-1.2249	0.15839	-1.1984
St. deviation:	0.45291	2.9634	0.62818	2.8795
Maximum:	4.4000	10.200	3.4000	8.4000
Minimum:	-0.30000	-6.8000	-1.6000	-6.7000

Number of data:	14200.	14200.	20750.	20750.
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### 7.2.2 Trend of daily SATU NEA St. deviation during the last two months (dark limb)

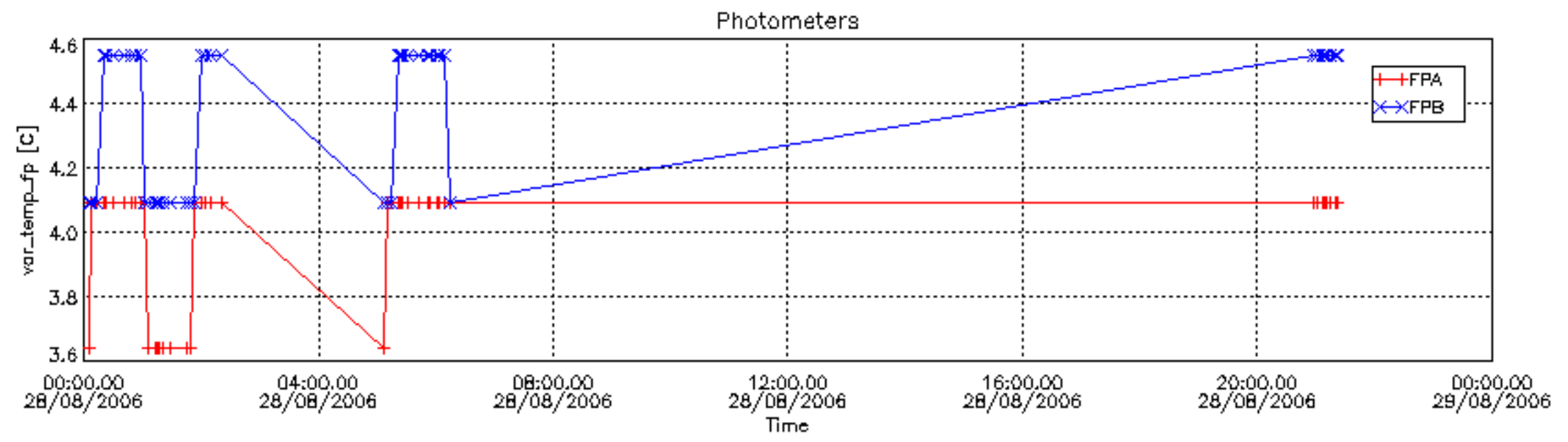
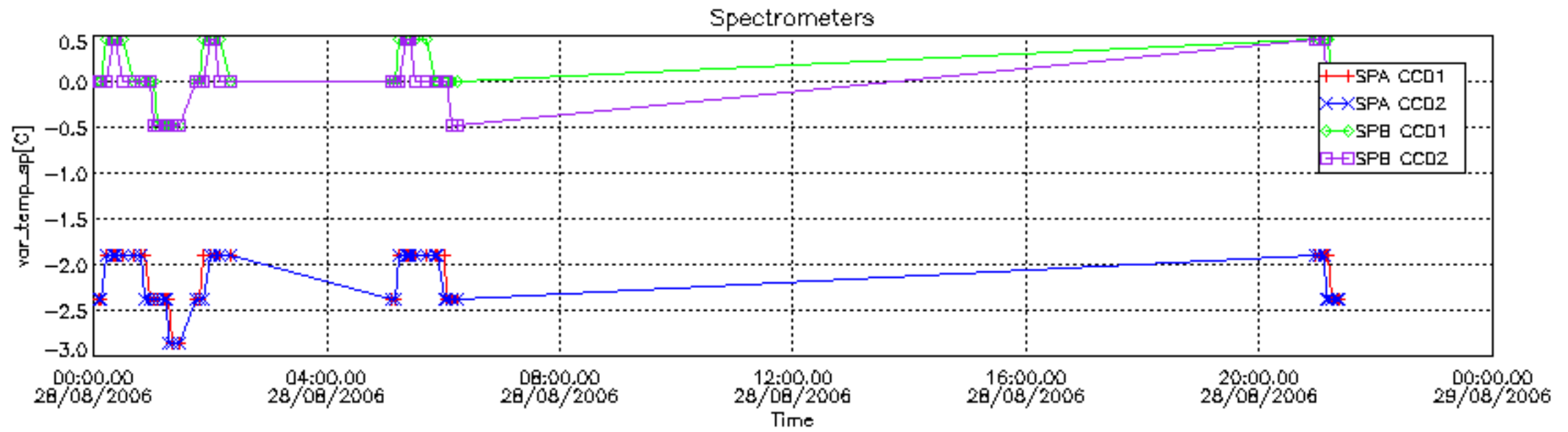
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.



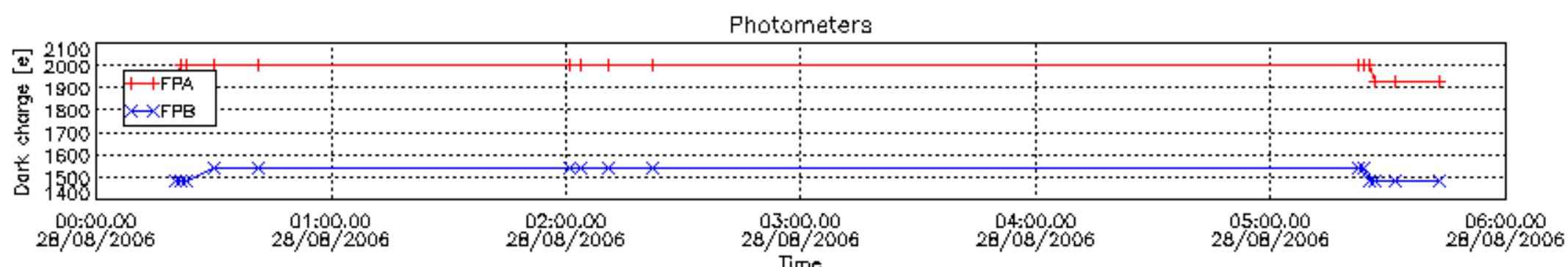
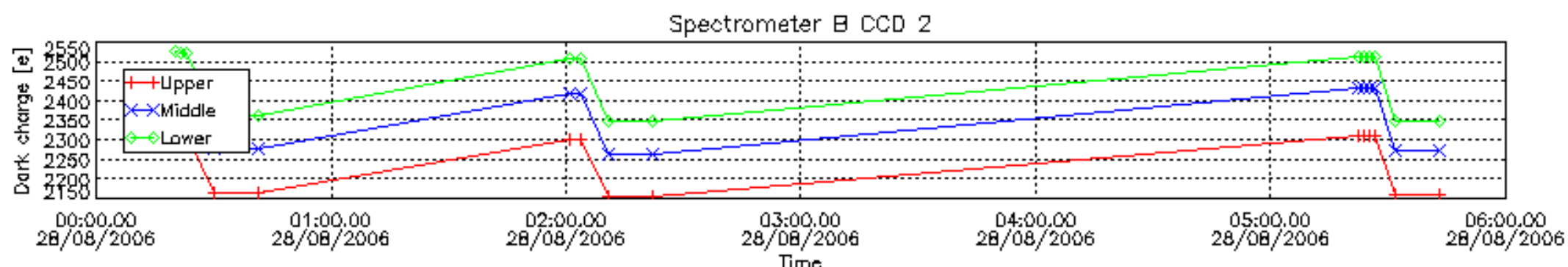
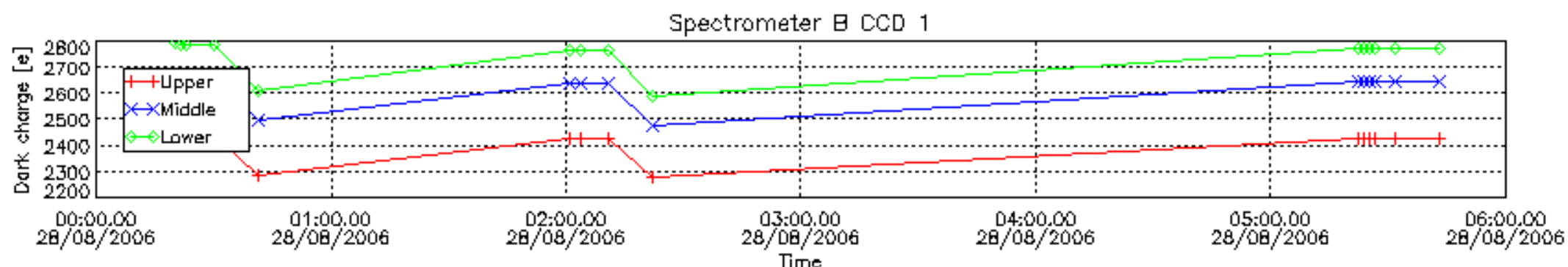
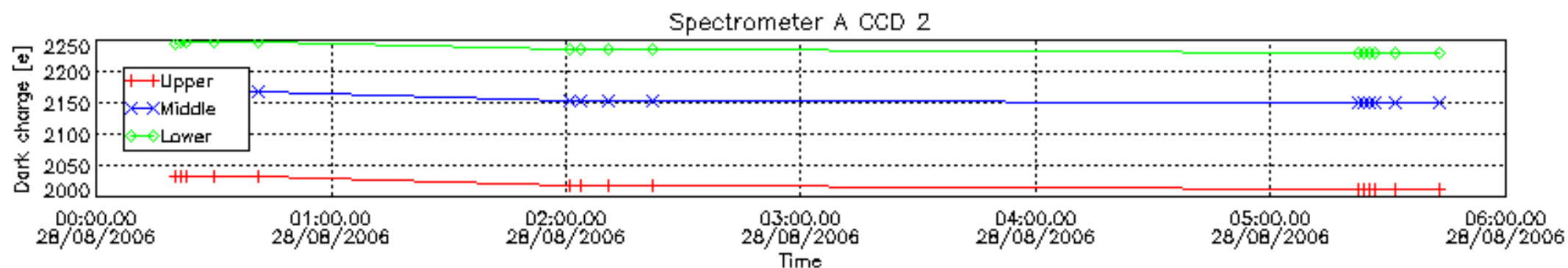
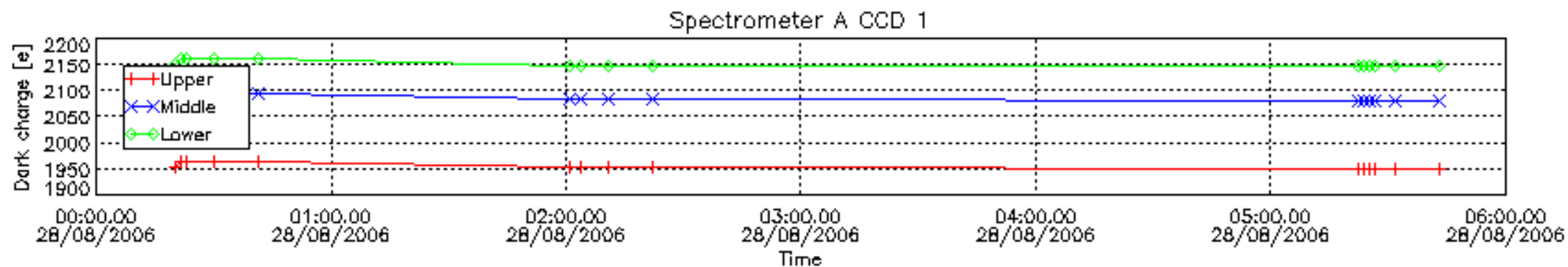
### 8. Auxiliary Data Files used for the production reported in section 2.2

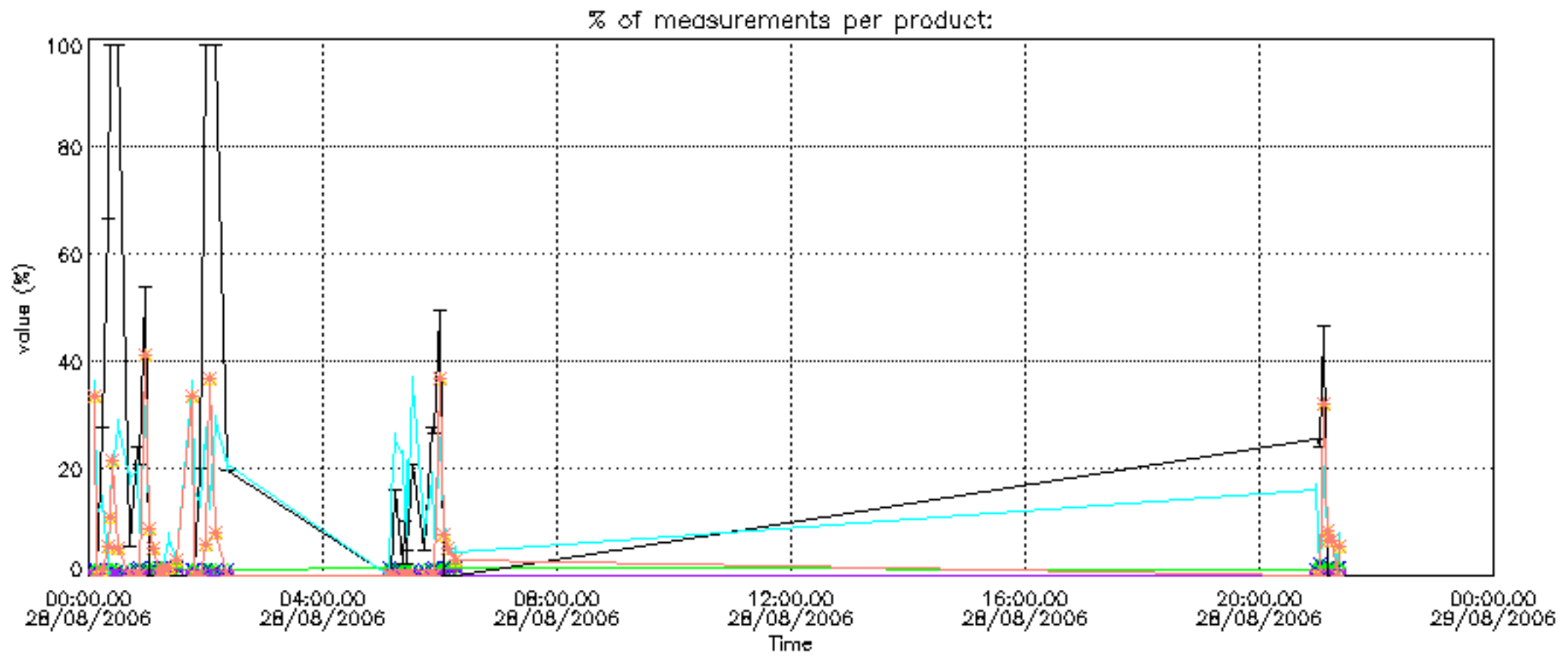
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	28-AUG-2006 00:05:26
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060825_091604_20060823_000000_20100101_000000	1	28-AUG-2006 00:05:26
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	28-AUG-2006 00:05:26
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	28-AUG-2006 00:05:26
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	28-AUG-2006 00:05:26
ECMWF_FILE	AUX_ECF_AXNECM20060827_103633_20060827_210000_20060828_090000	1	28-AUG-2006 00:05:26
ECMWF_FILE	AUX_ECA_AXNECM20060828_061342_20060827_210000_20060828_090000	22	28-AUG-2006 02:00:58
ECMWF_FILE	AUX_ECF_AXNECM20060828_062409_20060828_150000_20060829_030000	41	28-AUG-2006 20:57:01
OPTIONAL_ECMWF_FILE	MISSING	1	28-AUG-2006 00:05:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060827_223529_000057382050_00387_23487_0438.N1	1	28-AUG-2006 00:05:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060828_001626_000054192050_00388_23488_0439.N1	5	28-AUG-2006 00:21:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060828_015204_000044632050_00389_23489_0440.N1	22	28-AUG-2006 02:00:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060828_045243_000057382050_00391_23491_0442.N1	26	28-AUG-2006 05:07:15
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060828_204905_000041442050_00401_23501_0443.N1	41	28-AUG-2006 20:57:01

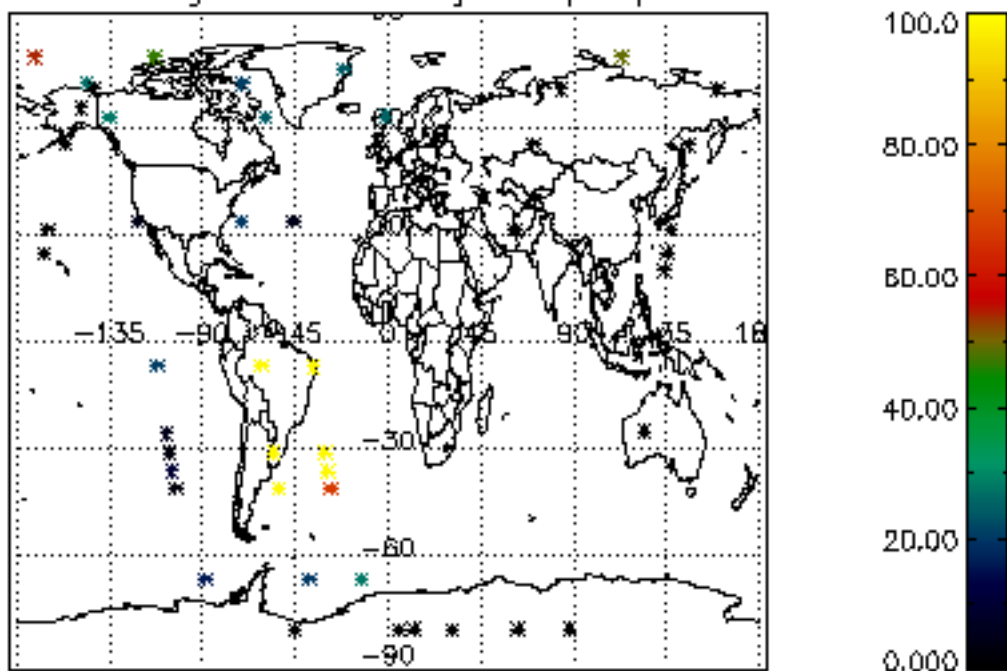




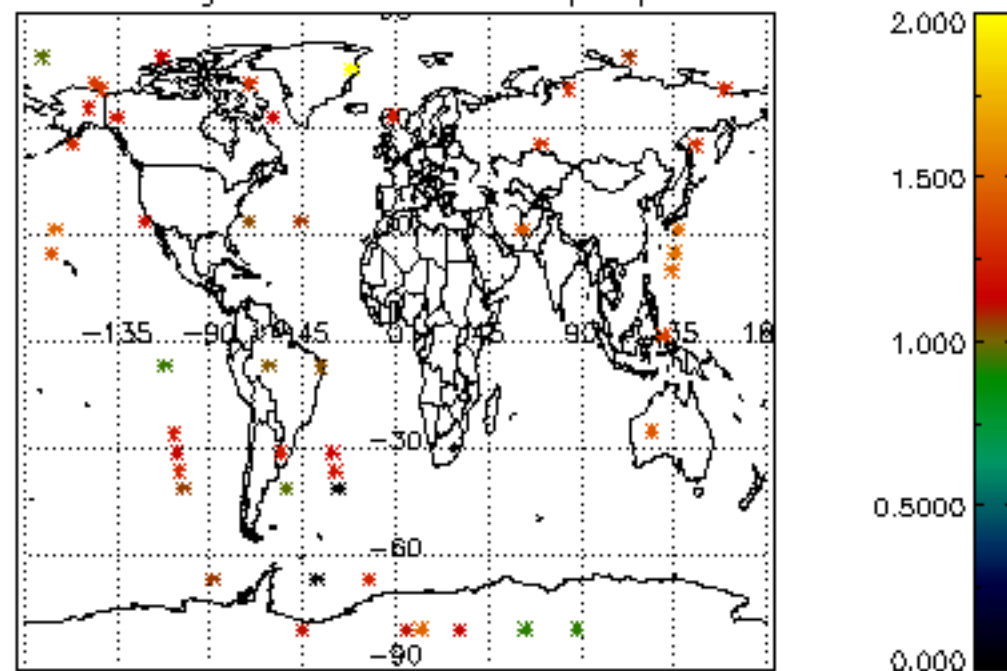




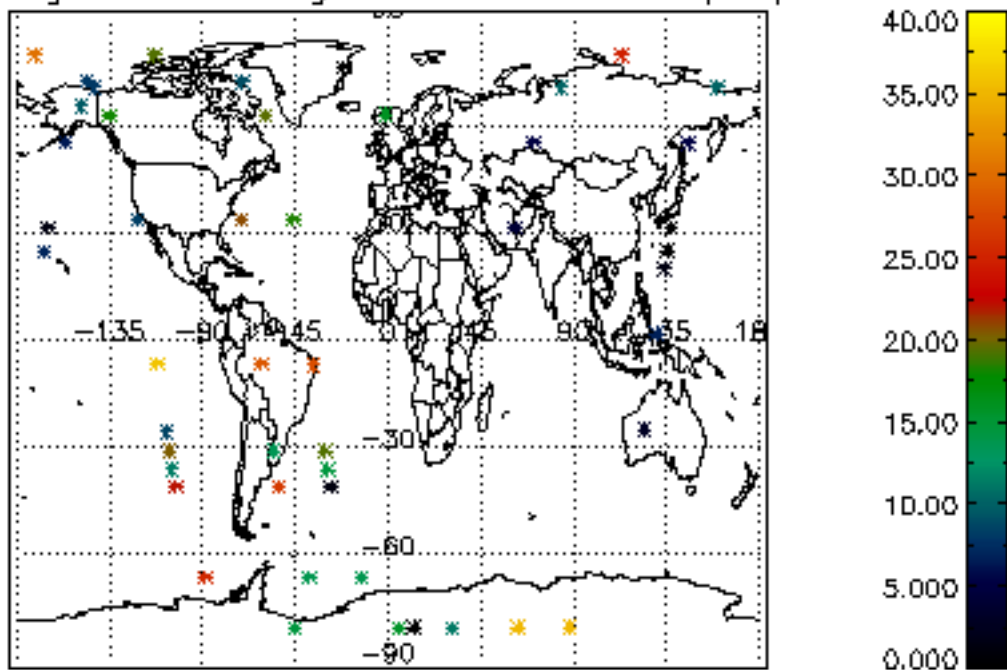
Percentage of cosmic ray hits per profile



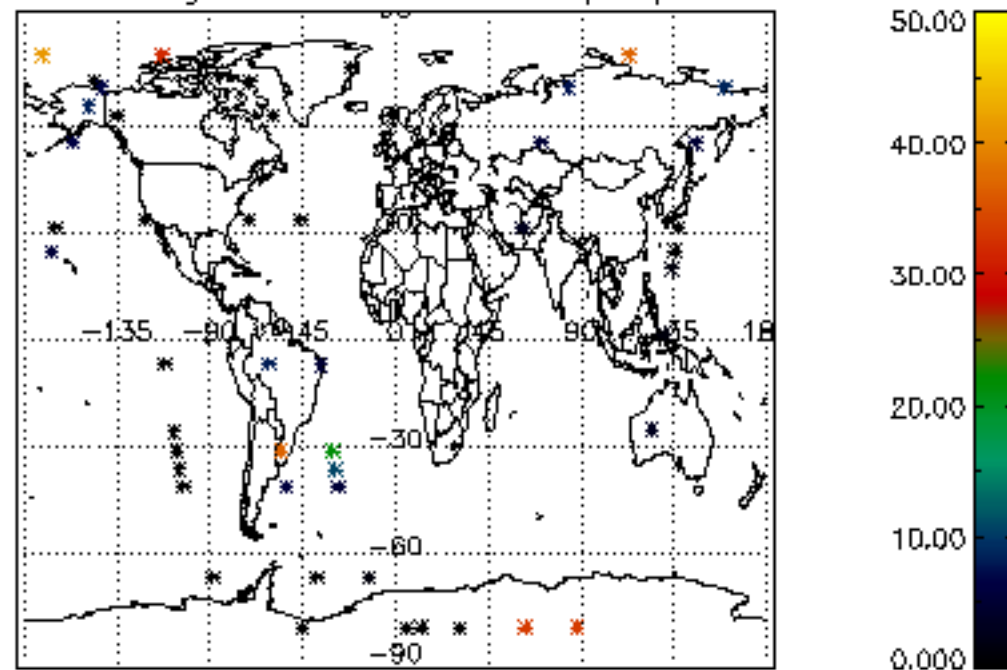
Percentage of datation errors per profile



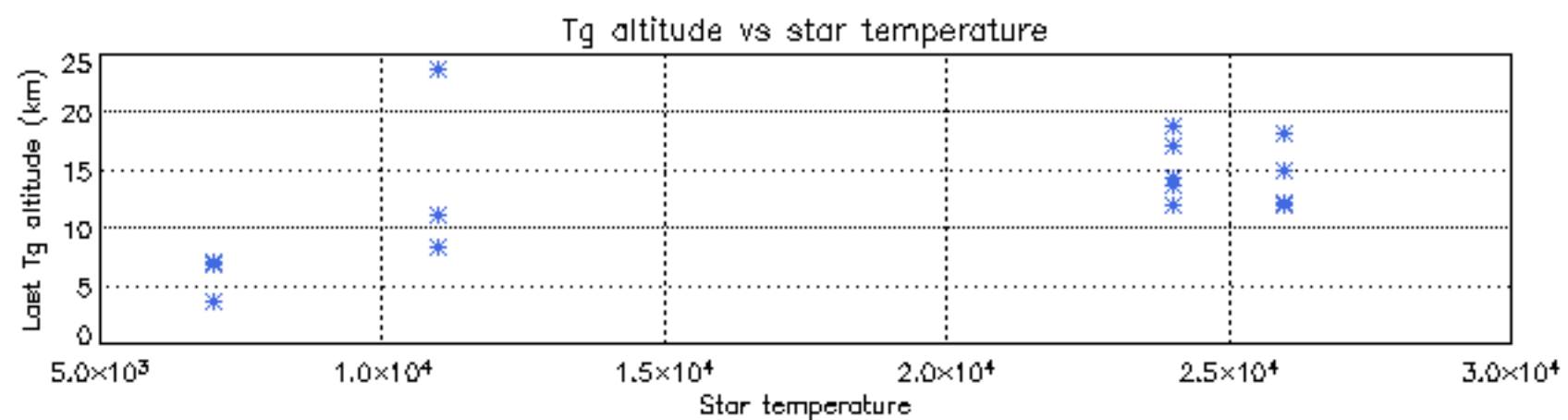
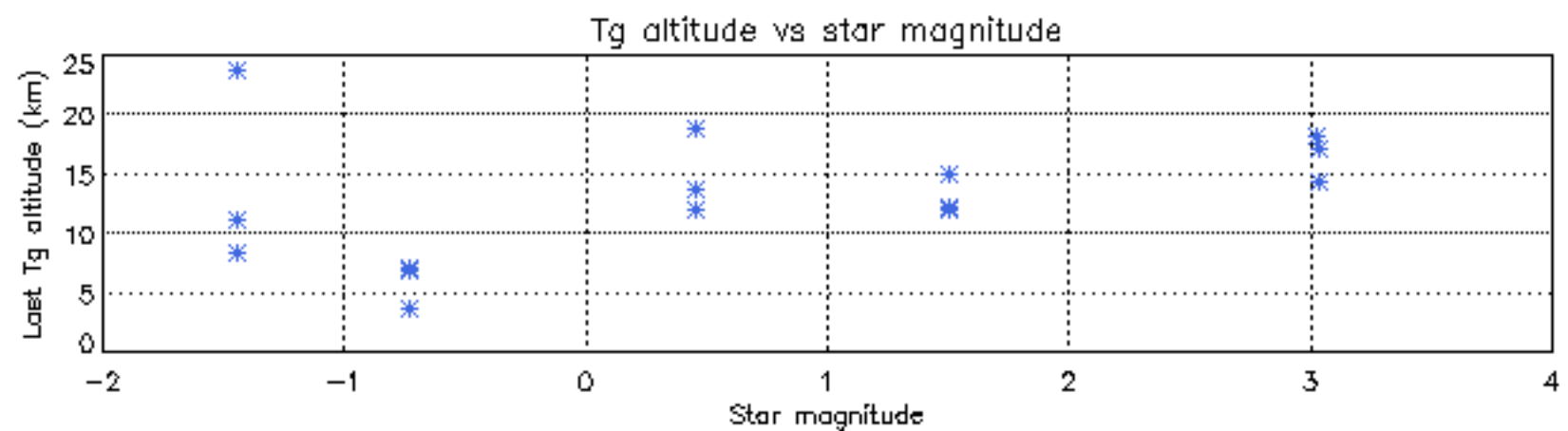
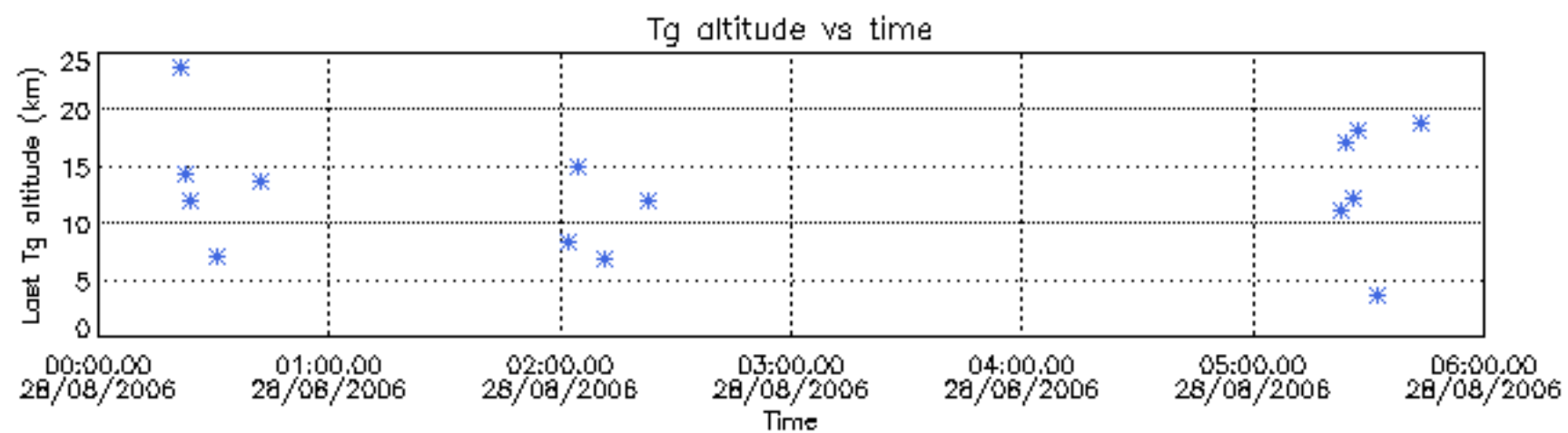
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

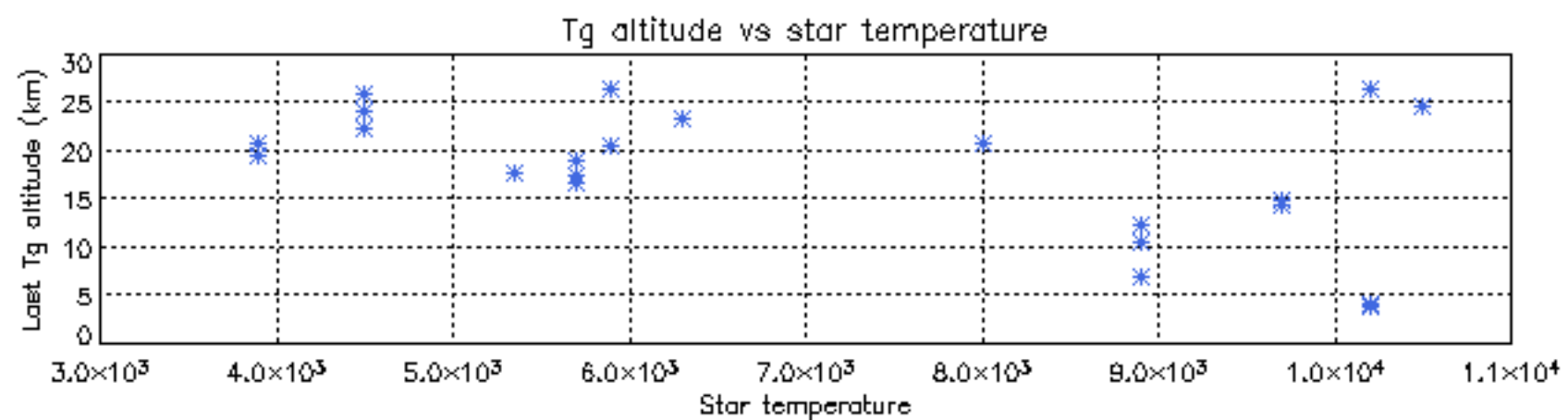
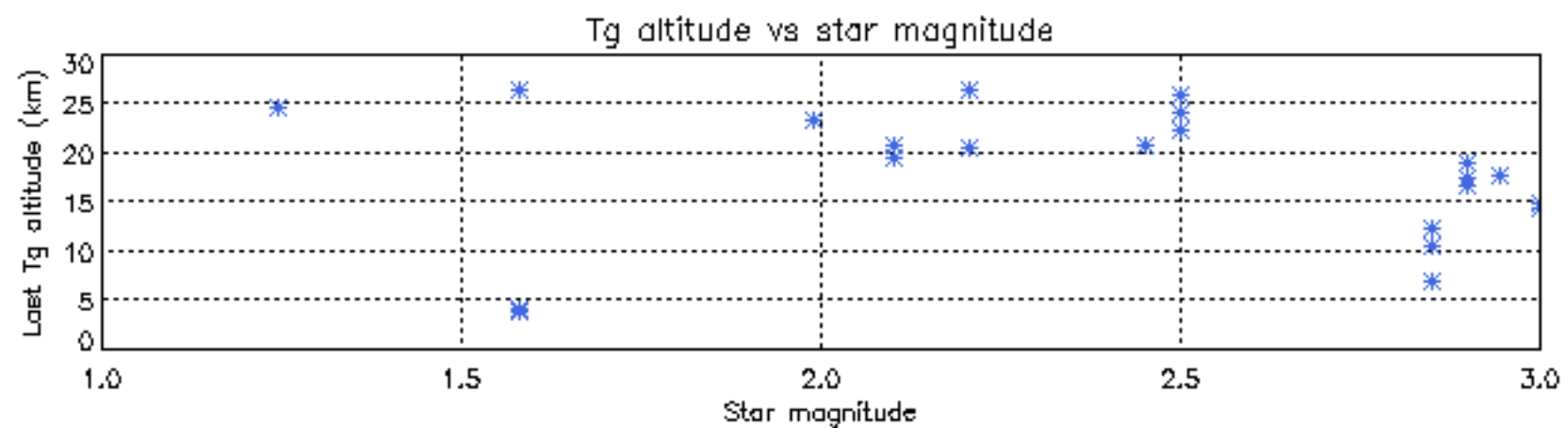
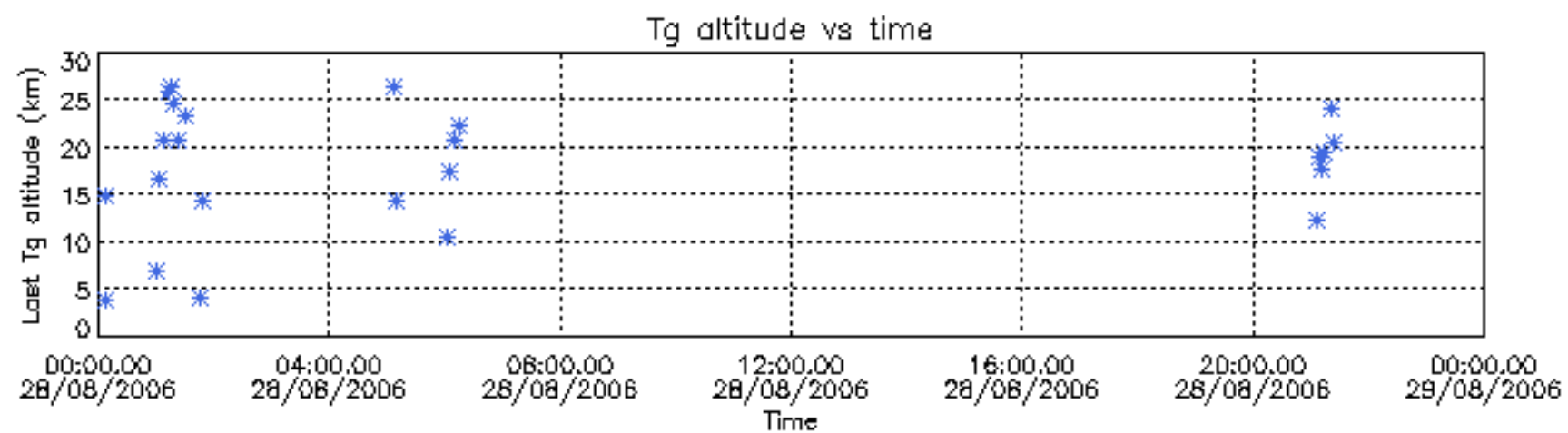


Tangent altitude at which the star is lost

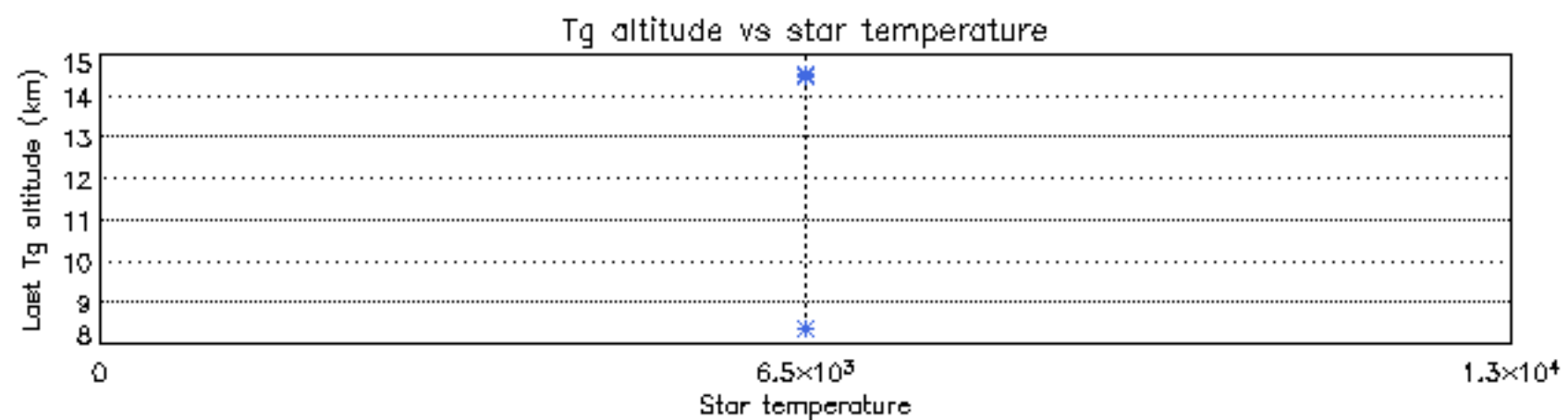
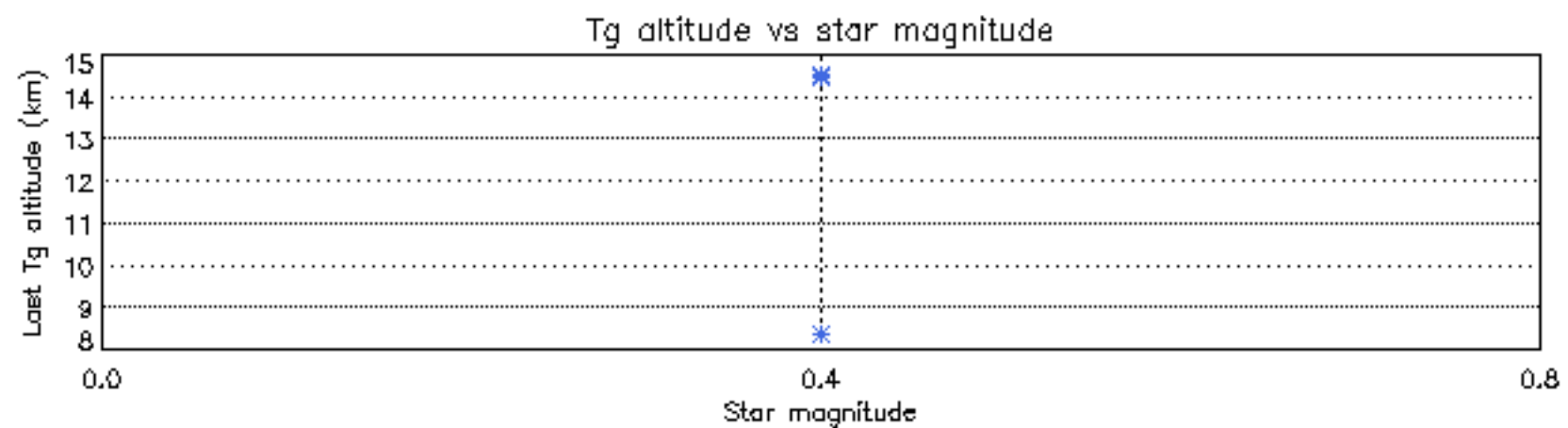
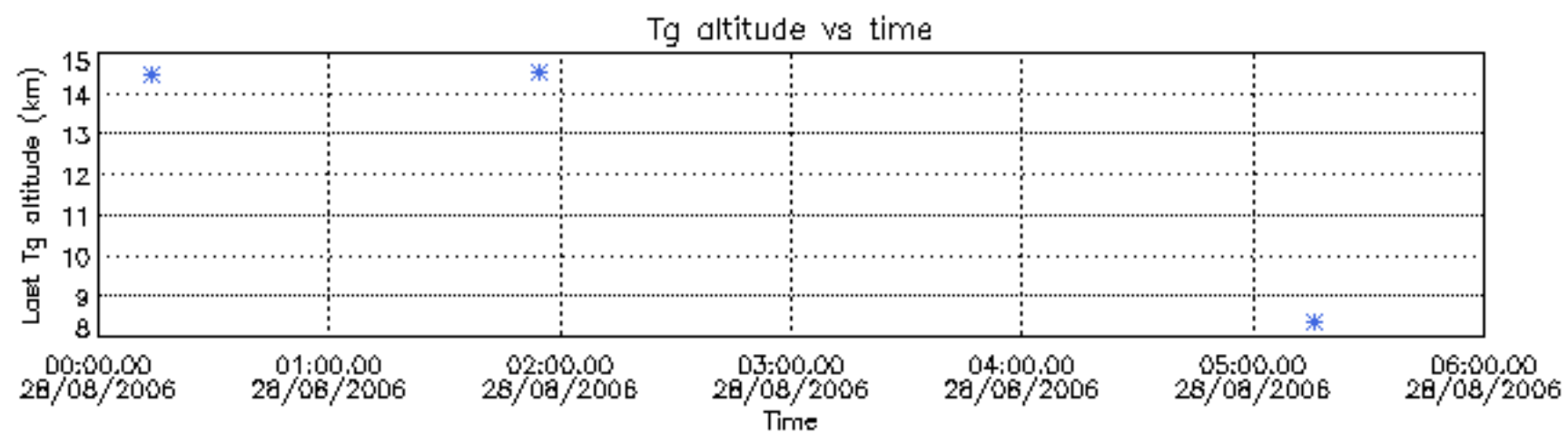


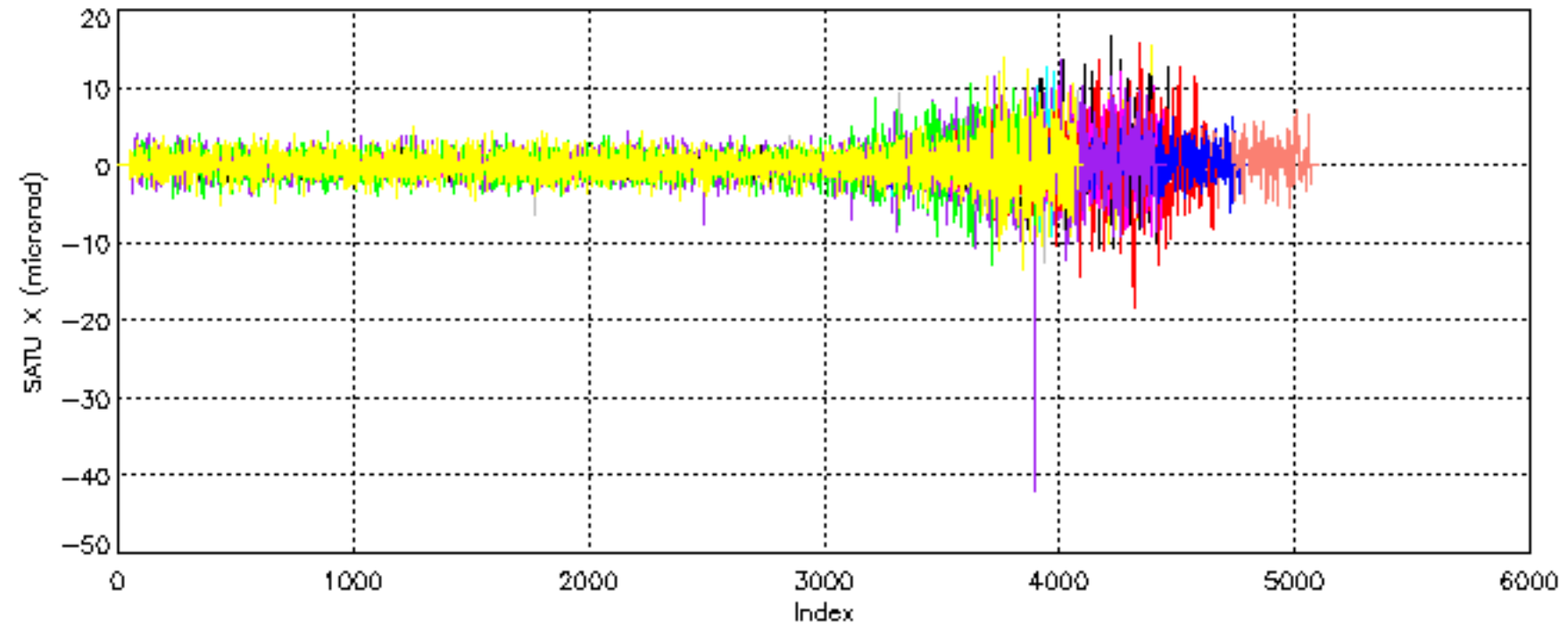


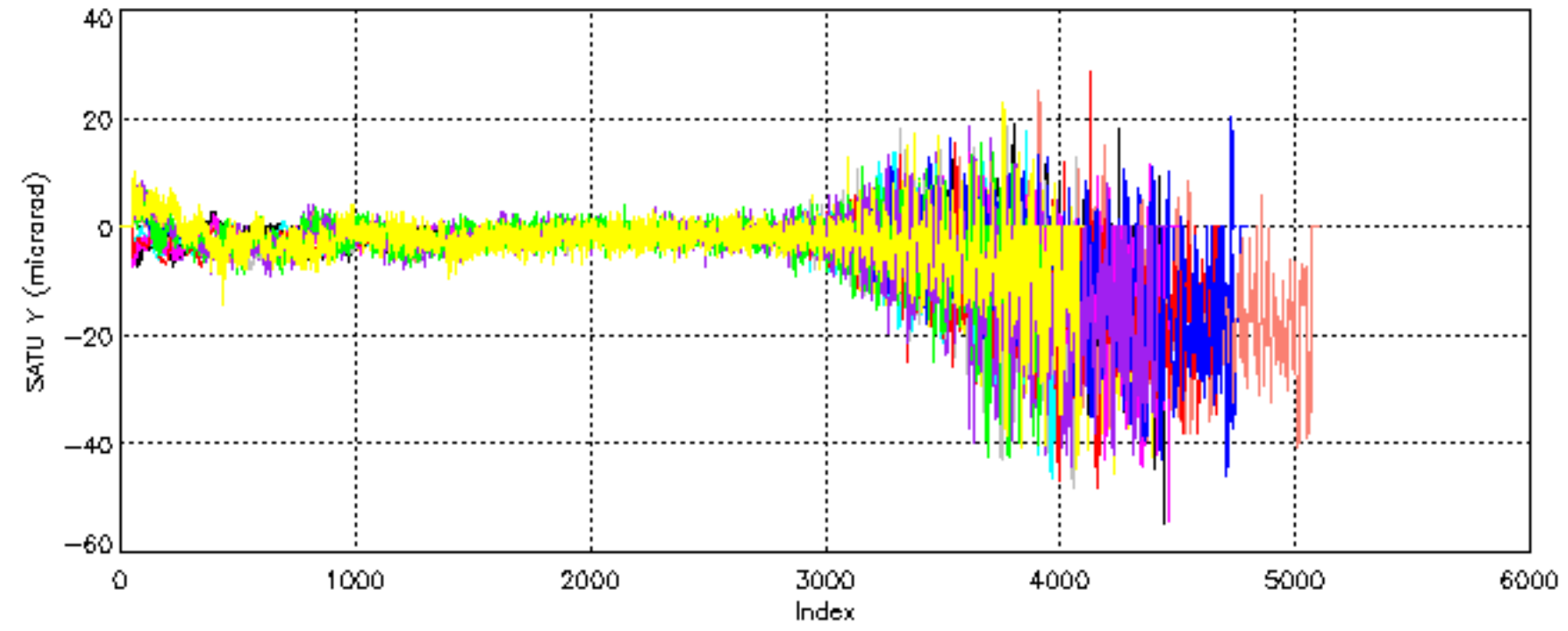
Tangent altitude at which the star is lost



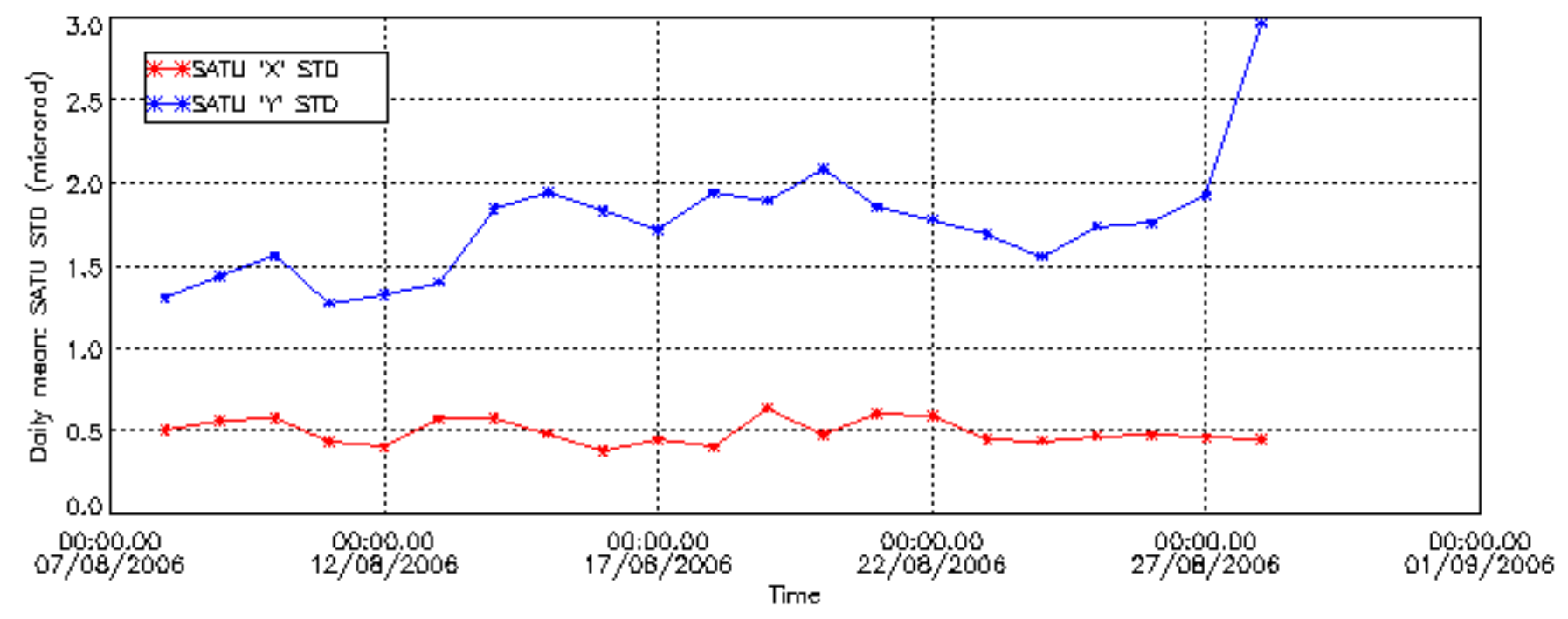
Tangent altitude at which the star is lost











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 3; 6016.1; 01-AUG-2006 01:20:33; Dark ; 39.5; 157; The1Eri ; 2.91; 9300;occ; 79; 0;23102  
 4; 6347.2; 01-AUG-2006 01:26:04; Dark ; 39.5; 9; Alp Eri ; 0.45; 24000;occ; 79; 0;23102  
 5; 6759.1; 01-AUG-2006 01:32:56; Dark ; 35.0; 148; Alp Tuc ; 2.88; 4100;occ; 70; 0;23102  
 6; 6960.2; 01-AUG-2006 01:36:17; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;23102  
 7; 7149.2; 01-AUG-2006 01:39:26; Dark ; 38.5; 172; Gam Gru ; 3.00; 13100;occ; 77; 0;23102  
 8; 8101.6; 01-AUG-2006 01:55:19; Bright; 30.5; 11; 53Alp Aql ; 0.76; 8000;occ; 61; 0;23102  
 9; 8186.3; 01-AUG-2006 01:56:43; Bright; 30.0; 168; 17Zet Aql ; 2.99; 11000;occ; 60; 0;23102  
 10; 8694.0; 01-AUG-2006 02:05:11; Bright; 33.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 66; 0;23102  
 11; 9134.3; 01-AUG-2006 02:12:31; Bright; 32.5; 89; 5Alp Cep ; 2.45; 8000;occ; 65; 0;23102  
 12; 9482.7; 01-AUG-2006 02:18:20; Bright; 28.5; 49; 1Alp UMi ; 1.99; 6300;occ; 57; 0;23102

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 2;-1684.0; 01-AUG-2006 02:33:25; Bright; 29.5; 107; 37The Aur ; 2.65; 11000;occ; 59; 0;23103  
 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  
 7; -926.5; 01-AUG-2006 02:46:02; Dark ; 33.5; 125; 44Iot Ori ; 2.77; 30000;occ; 67; 0;23103  
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 9; -727.4; 01-AUG-2006 02:49:21; Dark ; 34.0; 101; 11Alp Lep ; 2.58; 7000;occ; 68; 0;23103  
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 16; 2065.6; 01-AUG-2006 03:35:54; Bright; 32.5; 11; 53Alp Aql ; 0.76; 8000;occ; 65; 0;23104  
 17; 2150.9; 01-AUG-2006 03:37:20; Bright; 29.5; 168; 17Zet Aql ; 2.99; 11000;occ; 59; 0;23104  
 18; 2658.0; 01-AUG-2006 03:45:47; Bright; 34.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 68; 0;23104  
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 7; -926.2; 01-AUG-2006 04:26:39; Dark ; 33.5; 125; 44Iot Ori ; 2.77; 30000;occ; 67; 0;23104  
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 17; 2150.9; 01-AUG-2006 05:17:56; Bright; 29.5; 168; 17Zet Aql ; 2.99; 11000;occ; 59; 0;23105  
 18; 2657.6; 01-AUG-2006 05:26:22; Bright; 34.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 68; 0;23105  
 19; 3097.9; 01-AUG-2006 05:33:43; Bright; 33.5; 89; 5Alp Cep ; 2.45; 8000;occ; 67; 0;23105  
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 3; 4521.0; 01-AUG-2006 05:57:26; Dark ; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;23105  
 4; 4645.4; 01-AUG-2006 05:59:30; Dark ; 33.0; 176; 23Zet Tau ; 3.02; 22000;occ; 66; 0;23105  
 5; 4865.2; 01-AUG-2006 06:03:10; Dark ; 41.5; 14; 58Alp Ori ; 0.87; 3000;occ; 83; 0;23105  
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 7; 5110.3; 01-AUG-2006 06:07:15; Dark ; 30.0; 125; 44Iot Ori ; 2.77; 30000;occ; 60; 0;23105  
 8; 5178.6; 01-AUG-2006 06:08:23; Dark ; 35.5; 7; 19Bet Ori ; 0.10; 14000;occ; 71; 0;23105  
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 10; 5733.8; 01-AUG-2006 06:17:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23105  
 11; 6019.4; 01-AUG-2006 06:22:24; Dark ; 39.5; 157; The1Eri ; 2.91; 9300;occ; 79; 0;23105  
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13; 6760.6; 01-AUG-2006 06:34:45; Dark ; 35.0; 148; Alp Tuc ; 2.88; 4100;occ; 70; 0;23105
14; 6962.3; 01-AUG-2006 06:38:07; Dark ; 37.0; 31; Alp Gru ; 1.73; 15200;occ; 74; 0;23105
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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19; 9133.6; 01-AUG-2006 07:14:18; Bright; 32.5; 89; 5Alp Cep ; 2.45; 8000;occ; 65; 0;23105
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12; -1388.6; 01-AUG-2006 21:04:56; Dark ; 36.0; 176; 23Zet Tau ; 3.02; 22000;occ; 72; 0;23114
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5; 728.4; 01-AUG-2006 21:40:13; Dark ; 34.0; 148; Alp Tuc ; 2.88; 4100;occ; 68; 0;23115
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7; 1118.9; 01-AUG-2006 21:46:43; Dark ; 38.0; 172; Gam Gru ; 3.00; 13100;occ; 76; 0;23115
8; 2065.1; 01-AUG-2006 22:02:29; Bright; 31.0; 11; 53Alp Aql ; 0.76; 8000;occ; 62; 0;23115
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10; 2768.5; 01-AUG-2006 22:14:13; Bright; 36.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 72; 0;23115
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15; 817.4; 18-AUG-2006 12:44:11; Dark ; 34.5; 148; Alp Tuc ; 2.88; 4100;occ; 69; 0;23353
16; 1032.5; 18-AUG-2006 12:47:46; Dark ; 36.0; 31; Alp Gru ; 1.73; 15200;occ; 72; 0;23353
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9; -749.6; 18-AUG-2006 13:58:40; Dark ; 39.5; 1; 9Alp CMA ;-1.44; 11000;occ; 79; 0;23353
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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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15; 817.4; 18-AUG-2006 14:24:47; Dark ; 33.5; 148; Alp Tuc ; 2.88; 4100;occ; 67; 0;23354
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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