

# GOMOS Daily Report 24-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	26AUG2006 04:33:11
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (24AUG2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (25AUG2006 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	41
Nb of prods with errors	13

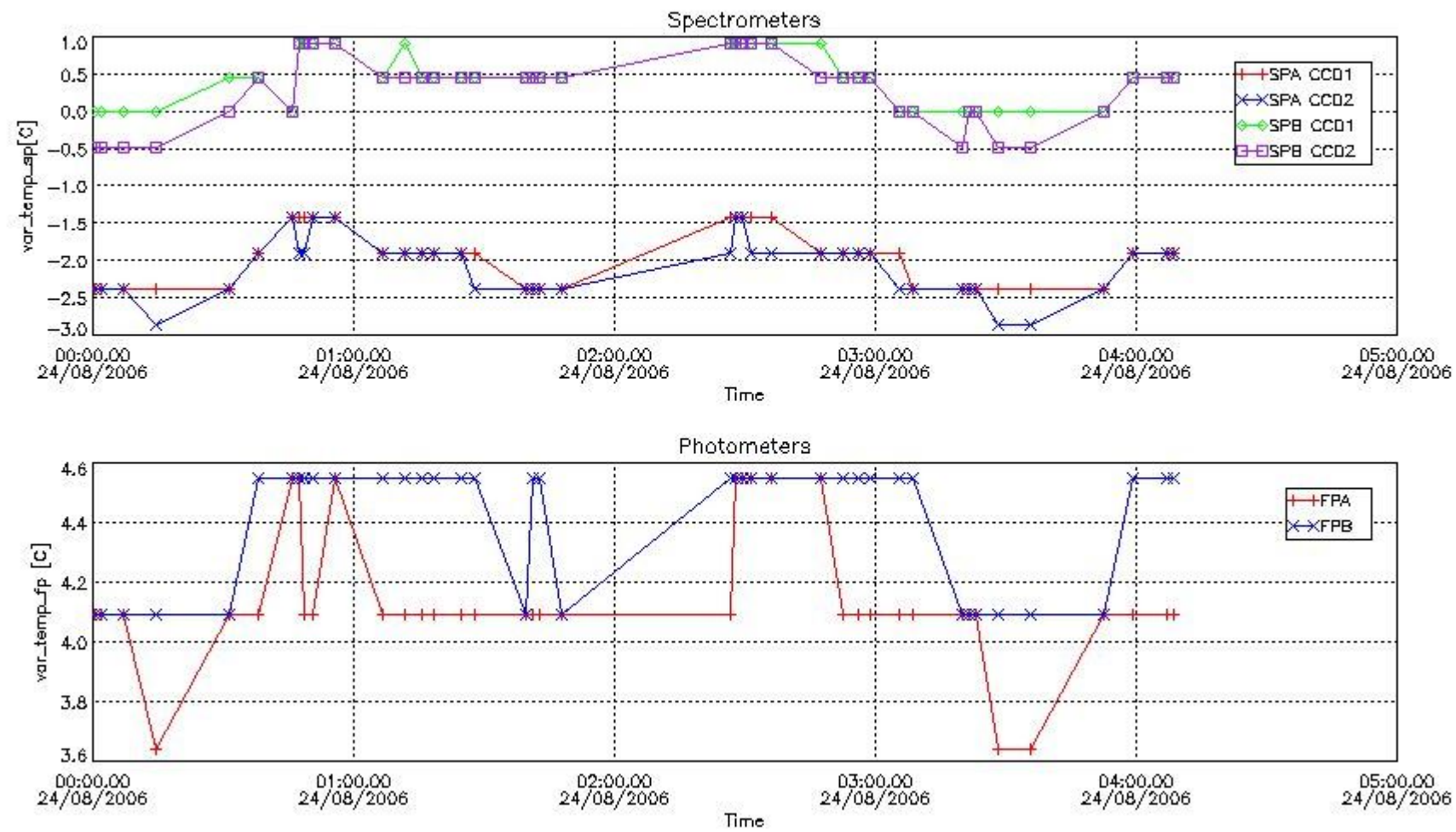
## 2. Summary of products arrived in PCF (Product Control Facility)

### 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_1PNPDE20060824_000033_000000282050_00331_23431_1022.N1	24-AUG-2006 00:00:33	Bright	28.000	66	37Gam Cyg	2.2080	5900.0	56	23431	Yes
2	GOM_TRA_1PNPDE20060824_000201_000000302050_00331_23431_1023.N1	24-AUG-2006 00:02:01	Bright	29.500	19	50Alp Cyg	1.2460	10500.	59	23431	Yes
3	GOM_TRA_1PNPDE20060824_000713_000000312050_00331_23431_1024.N1	24-AUG-2006 00:07:13	Bright	30.500	89	5Alp Cep	2.4510	8000.0	61	23431	Yes
4	GOM_TRA_1PNPDE20060824_001437_000000282050_00331_23431_1025.N1	24-AUG-2006 00:14:37	Bright	27.500	49	1Alp UMi	1.9900	6300.0	55	23431	Yes
5	GOM_TRA_1PNPDE20060824_003116_000000472050_00331_23431_1026.N1	24-AUG-2006 00:31:16	Bright	47.000	24	66Alp Gem	1.5800	10200.	94	23431	No
6	GOM_TRA_1PNPDE20060824_003803_000000322050_00331_23431_1027.N1	24-AUG-2006 00:38:03	Twilight	32.000	153	3Bet CMi	2.8940	13100.	64	23431	No
7	GOM_TRA_1PNPDE20060824_004553_000000412050_00331_23431_1018.N1	24-AUG-2006 00:45:53	Dark	40.500	1	9Alp CMa	-1.4400	11000.	81	23431	No
8	GOM_TRA_1PNPDE20060824_004721_000000342050_00331_23431_1019.N1	24-AUG-2006 00:47:21	Dark	34.000	179	24Omi2CMa	3.0320	24000.	68	23431	No
9	GOM_TRA_1PNPDE20060824_004849_000000352050_00331_23431_1020.N1	24-AUG-2006 00:48:49	Dark	35.000	23	21Eps CMa	1.5020	26000.	70	23431	No
10	GOM_TRA_1PNPDE20060824_005037_000000382050_00331_23431_1021.N1	24-AUG-2006 00:50:37	Dark	38.000	117	Pi Pup	2.7060	3800.0	76	23431	No
11	GOM_TRA_1PNPDE20060824_005538_000000372050_00331_23431_1015.N1	24-AUG-2006 00:55:38	Dark	37.000	2	Alp Car	-0.73600	7000.0	74	23431	No
12	GOM_TRA_1PNPDE20060824_010648_000000382050_00332_23432_1023.N1	24-AUG-2006 01:06:48	Dark	37.500	9	Alp Eri	0.45300	24000.	75	23432	No
13	GOM_TRA_1PNPDE20060824_011152_000000382050_00332_23432_1024.N1	24-AUG-2006 01:11:52	Straylight	37.500	148	Alp Tuc	2.8780	4100.0	75	23432	No
14	GOM_TRA_1PNPDE20060824_011529_000000372050_00332_23432_1025.N1	24-AUG-2006 01:15:29	Straylight	37.000	31	Alp Gru	1.7340	15200.	74	23432	No
15	GOM_TRA_1PNPDE20060824_011823_000000342050_00332_23432_1026.N1	24-AUG-2006 01:18:23	Straylight	34.000	172	Gam Gru	3.0030	13100.	68	23432	No
16	GOM_TRA_1PNPDE20060824_012442_000000392050_00332_23432_1027.N1	24-AUG-2006 01:24:42	Bright	39.000	142	49Del Cap	2.8500	8900.0	78	23432	No
17	GOM_TRA_1PNPDE20060824_012757_000000342050_00332_23432_1028.N1	24-AUG-2006 01:27:57	Bright	33.500	154	22Bet Aqr	2.8990	5700.0	67	23432	No
18	GOM_TRA_1PNPDE20060824_013925_000000312050_00332_23432_1029.N1	24-AUG-2006 01:39:25	Bright	31.000	92	53Eps Cyg	2.5000	4500.0	62	23432	Yes
19	GOM_TRA_1PNPDE20060824_014109_000000312050_00332_23432_1030.N1	24-AUG-2006 01:41:09	Bright	30.500	66	37Gam Cyg	2.2080	5900.0	61	23432	Yes
20	GOM_TRA_1PNPDE20060824_014237_000000322050_00332_23432_1031.N1	24-AUG-2006 01:42:37	Bright	32.000	19	50Alp Cyg	1.2460	10500.	64	23432	Yes
21	GOM_TRA_1PNPDE20060824_014749_000000282050_00332_23432_1032.N1	24-AUG-2006 01:47:49	Bright	27.500	89	5Alp Cep	2.4510	8000.0	55	23432	Yes
22	GOM_TRA_1PNPDE20060824_022629_000000492050_00332_23432_1016.N1	24-AUG-2006 02:26:29	Dark	49.000	1	9Alp CMa	-1.4400	11000.	98	23432	No
23	GOM_TRA_1PNPDE20060824_022757_000000352050_00332_23432_1017.N1	24-AUG-2006 02:27:57	Dark	34.500	179	24Omi2CMa	3.0320	24000.	69	23432	No
24	GOM_TRA_1PNPDE20060824_022925_000000372050_00332_23432_1018.N1	24-AUG-2006 02:29:25	Dark	36.500	23	21Eps CMa	1.5020	26000.	73	23432	No
25	GOM_TRA_1PNPDE20060824_023113_000000382050_00332_23432_1019.N1	24-AUG-2006 02:31:13	Dark	38.000	117	Pi Pup	2.7060	3800.0	76	23432	No
26	GOM_TRA_1PNPDE20060824_023615_000000472050_00332_23432_1020.N1	24-AUG-2006 02:36:15	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	23432	No
27	GOM_TRA_1PNPDE20060824_024724_000000382050_00333_23433_1021.N1	24-AUG-2006 02:47:24	Dark	37.500	9	Alp Eri	0.45300	24000.	75	23433	No
28	GOM_TRA_1PNPDE20060824_025228_000000352050_00333_23433_1022.N1	24-AUG-2006 02:52:28	Straylight	34.500	148	Alp Tuc	2.8780	4100.0	69	23433	No
29	GOM_TRA_1PNPDE20060824_025605_000000372050_00333_23433_1023.N1	24-AUG-2006 02:56:05	Straylight	36.500	31	Alp Gru	1.7340	15200.	73	23433	No
30	GOM_TRA_1PNPDE20060824_025859_000000352050_00333_23433_1024.N1	24-AUG-2006 02:58:59	Straylight	34.500	172	Gam Gru	3.0030	13100.	69	23433	No
31	GOM_TRA_1PNPDE20060824_030518_000000372050_00333_23433_1025.N1	24-AUG-2006 03:05:18	Bright	37.000	142	49Del Cap	2.8500	8900.0	74	23433	No
32	GOM_TRA_1PNPDE20060824_030833_000000332050_00333_23433_1026.N1	24-AUG-2006 03:08:33	Bright	33.000	154	22Bet Aqr	2.8990	5700.0	66	23433	No
33	GOM_TRA_1PNPDE20060824_032001_000000312050_00333_23433_1027.N1	24-AUG-2006 03:20:01	Bright	30.500	92	53Eps Cyg	2.5000	4500.0	61	23433	Yes
34	GOM_TRA_1PNPDE20060824_032145_000000322050_00333_23433_1028.N1	24-AUG-2006 03:21:45	Bright	31.500	66	37Gam Cyg	2.2080	5900.0	63	23433	Yes
35	GOM_TRA_1PNPDE20060824_032313_000000322050_00333_23433_1029.N1	24-AUG-2006 03:23:13	Bright	31.500	19	50Alp Cyg	1.2460	10500.	63	23433	Yes
36	GOM_TRA_1PNPDE20060824_032824_000000302050_00333_23433_1030.N1	24-AUG-2006 03:28:24	Bright	29.500	89	5Alp Cep	2.4510	8000.0	59	23433	Yes
37	GOM_TRA_1PNPDE20060824_033549_000000302050_00333_23433_1031.N1	24-AUG-2006 03:35:49	Bright	29.500	49	1Alp UMi	1.9900	6300.0	59	23433	Yes
38	GOM_TRA_1PNPDE20060824_035228_000000312050_00333_23433_1012.N1	24-AUG-2006 03:52:28	Bright	30.500	24	66Alp Gem	1.5800	10200.	61	23433	No
39	GOM_TRA_1PNPDE20060824_035915_000000342050_00333_23433_1013.N1	24-AUG-2006 03:59:15	Twilight	33.500	153	3Bet CMi	2.8940	13100.	67	23433	No
40	GOM_TRA_1PNPDE20060824_040706_000000442050_00333_23433_1014.N1	24-AUG-2006 04:07:06	Dark	43.500	1	9Alp CMa	-1.4400	11000.	87	23433	No
41	GOM_TRA_1PNPDE20060824_040833_000000342050_00333_23433_1015.N1	24-AUG-2006 04:08:33	Dark	34.000	179	24Omi2CMa	3.0320	24000.	68	23433	No

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



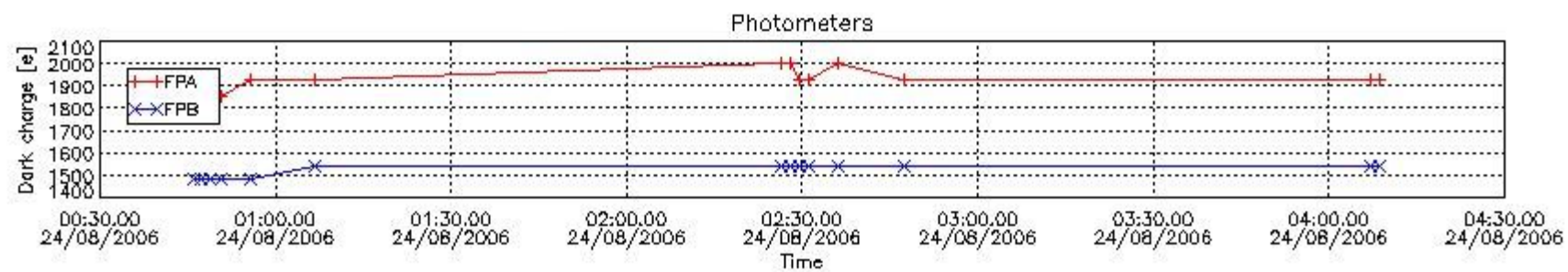
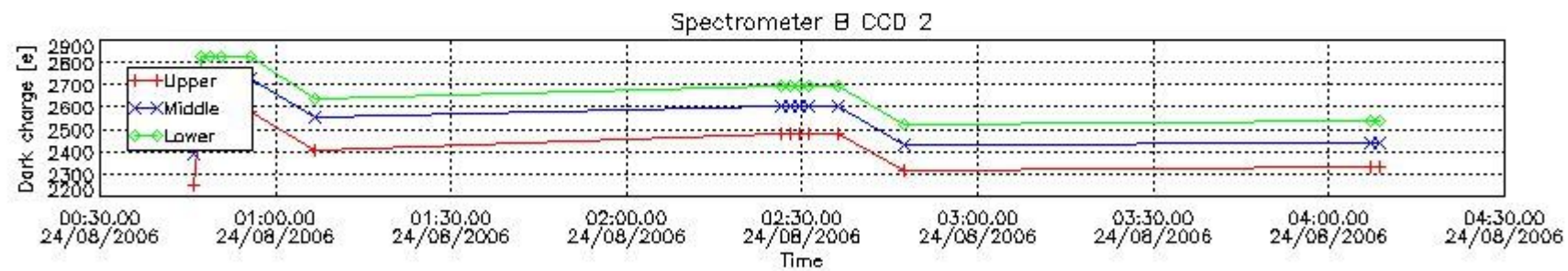
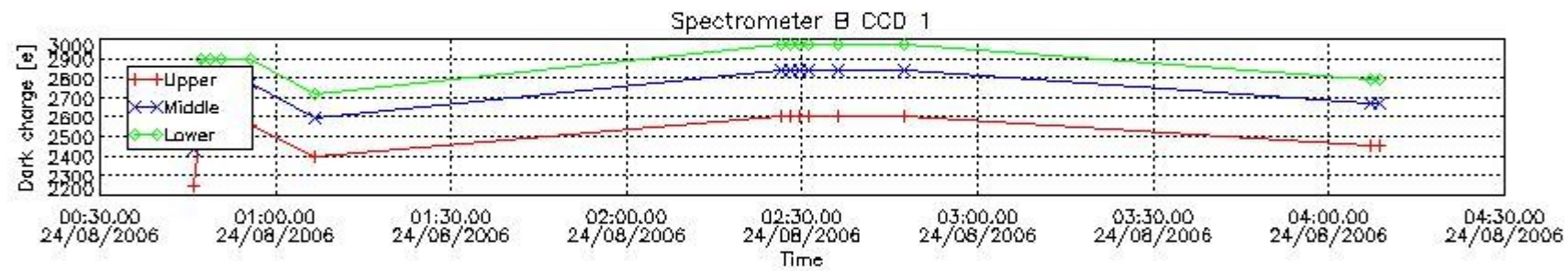
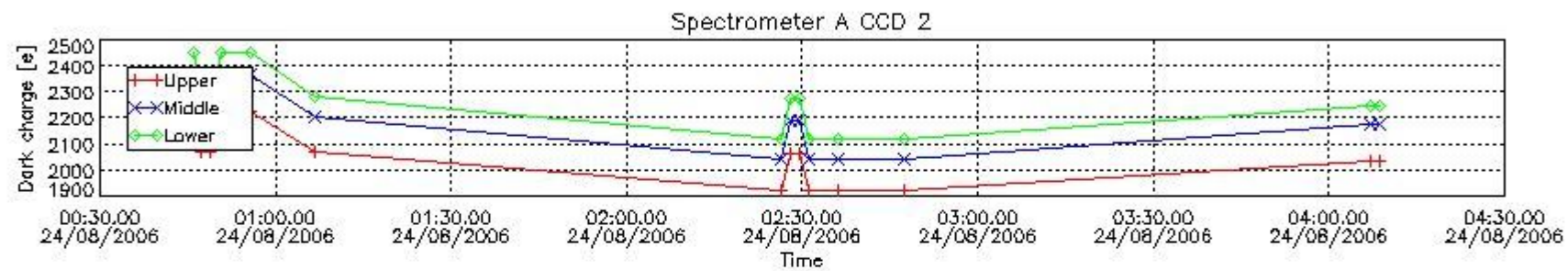
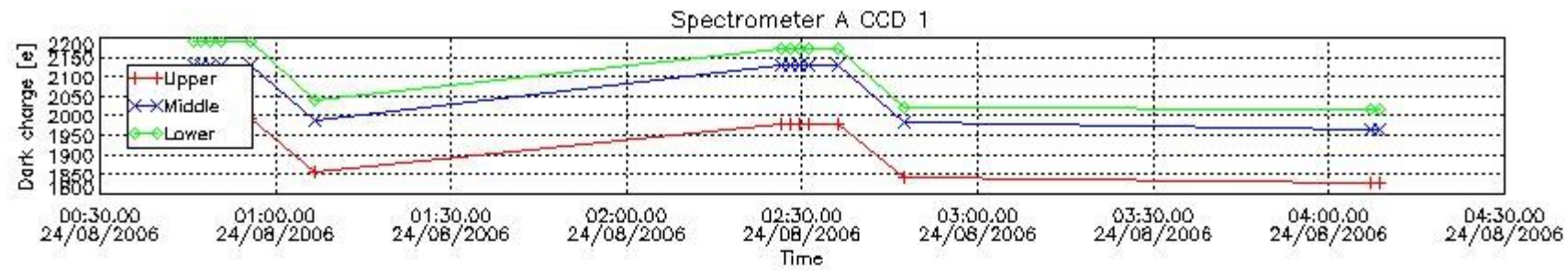
### 4. Overview of dark signal processing per product

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



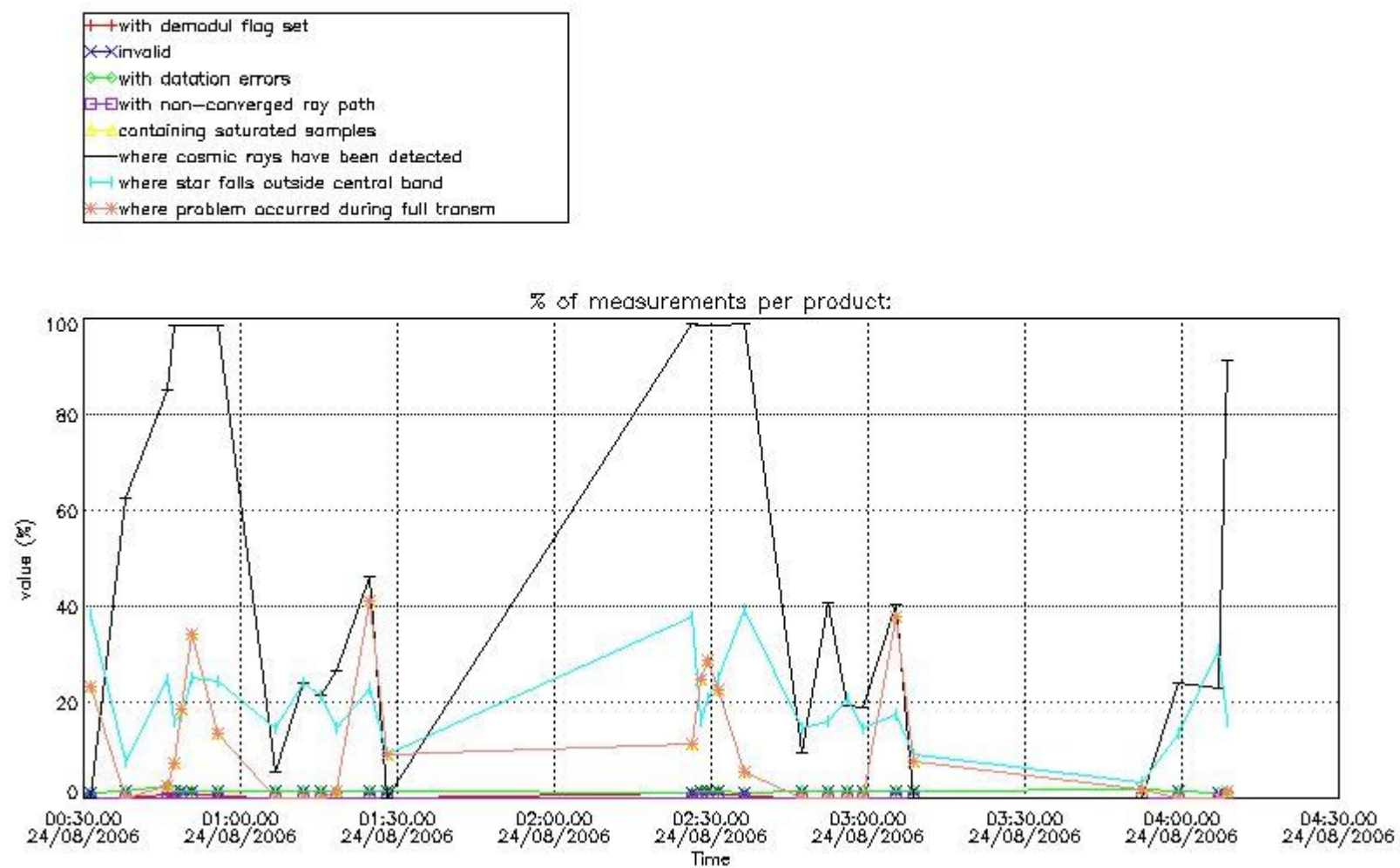
## 5. Demodulation flag and quality information monitoring

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.

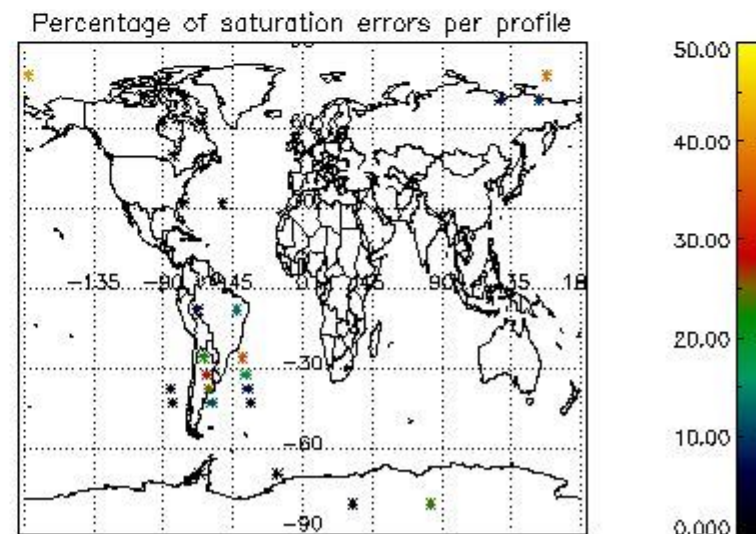
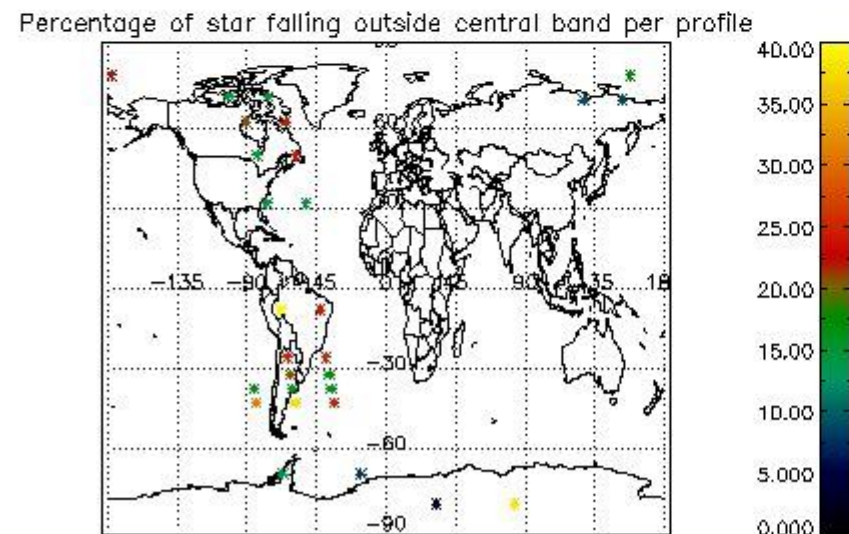
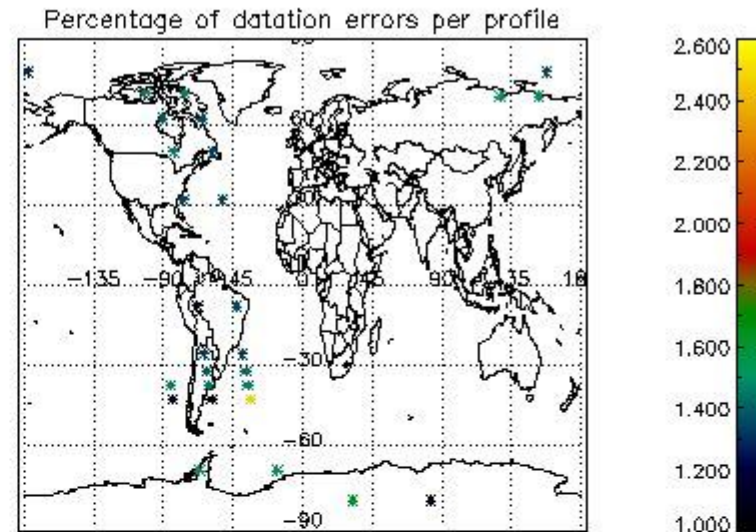
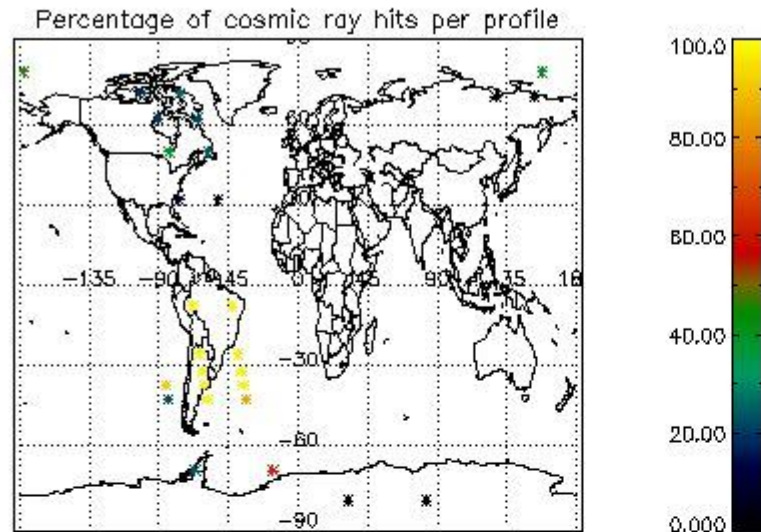
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	50.0000 %
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)



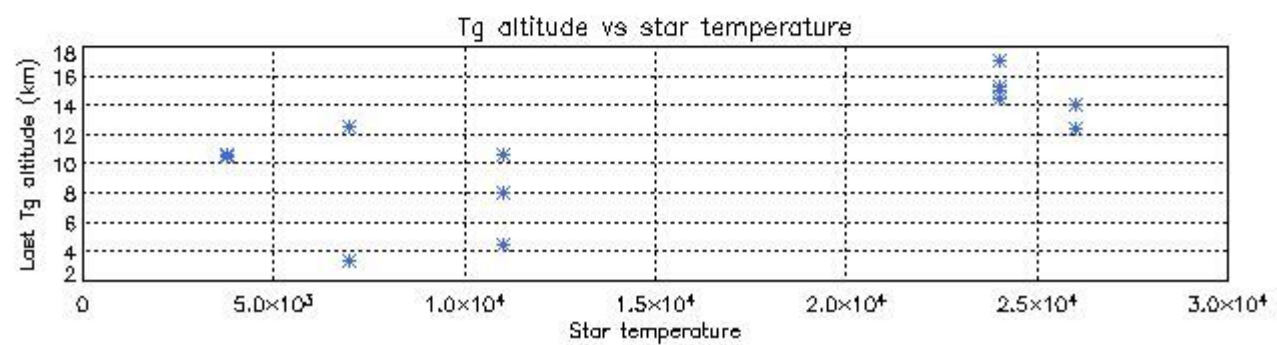
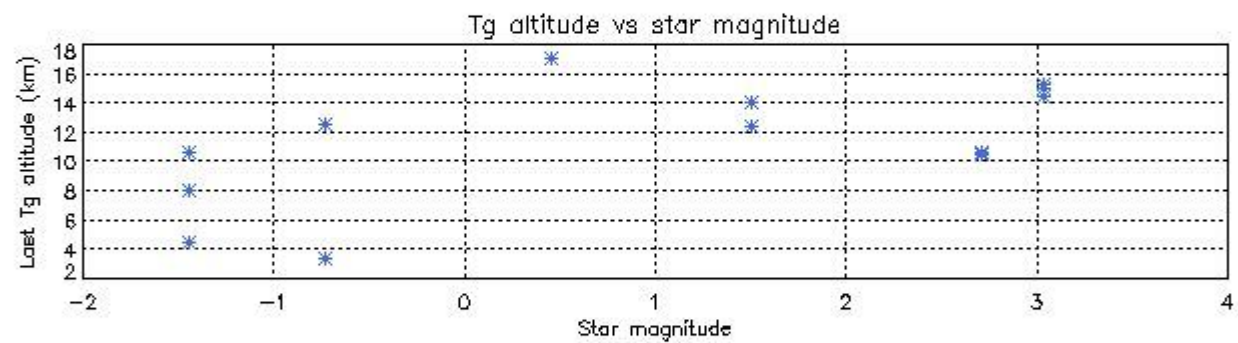
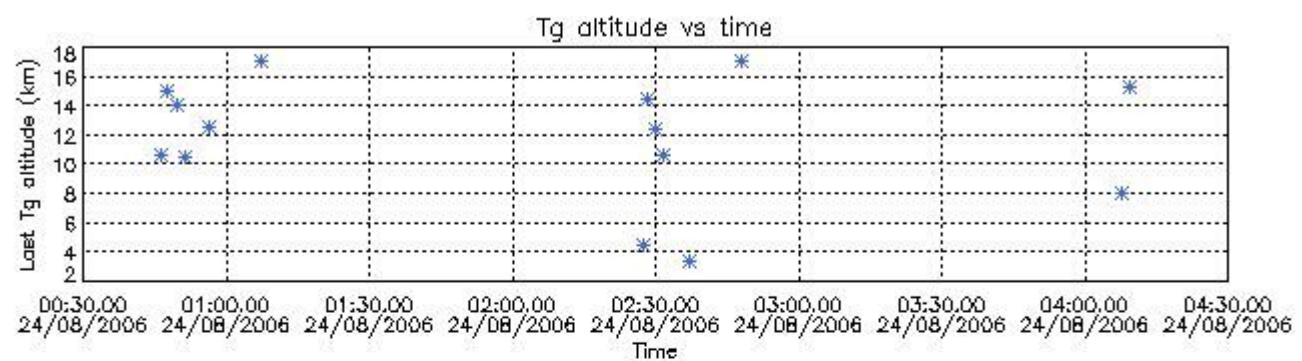
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	11.822	14.831	16.990
St. deviation:	4.2353	5.9739	1.2808
Maximum:	17.056	20.874	17.895
Minimum:	3.3973	4.5960	16.084
Number of data:	14.000	6.0000	2.0000

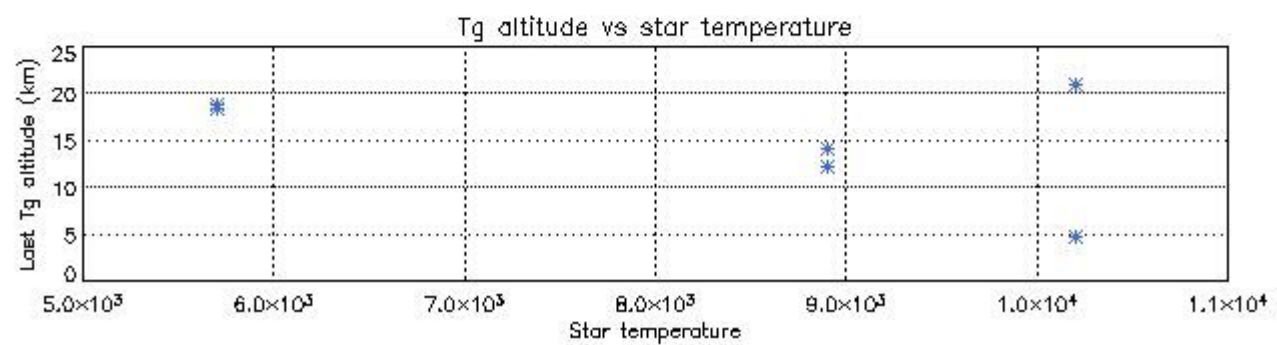
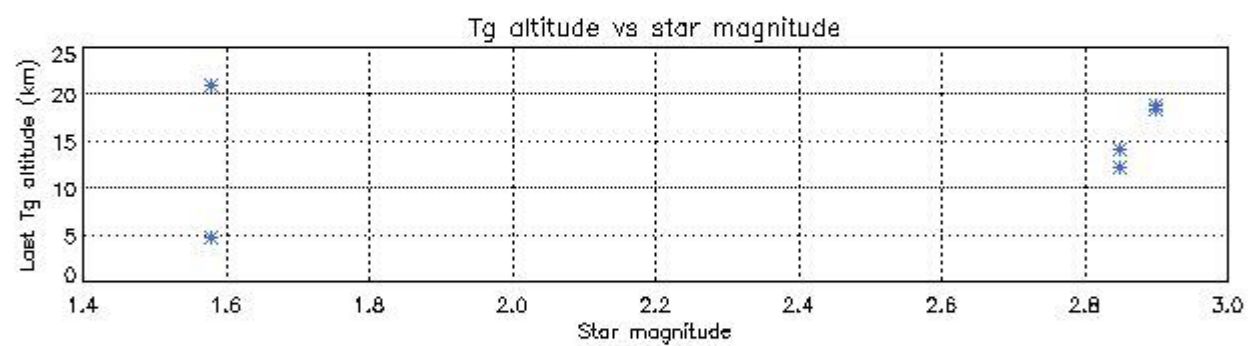
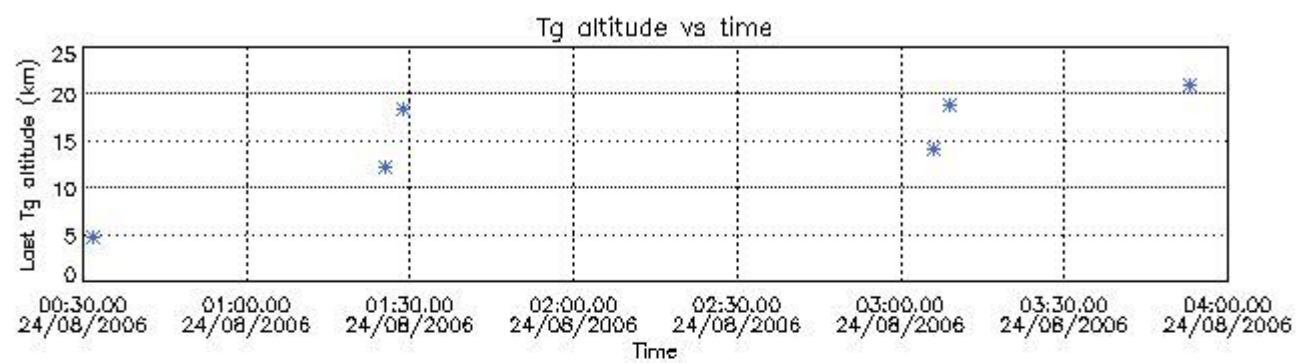
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

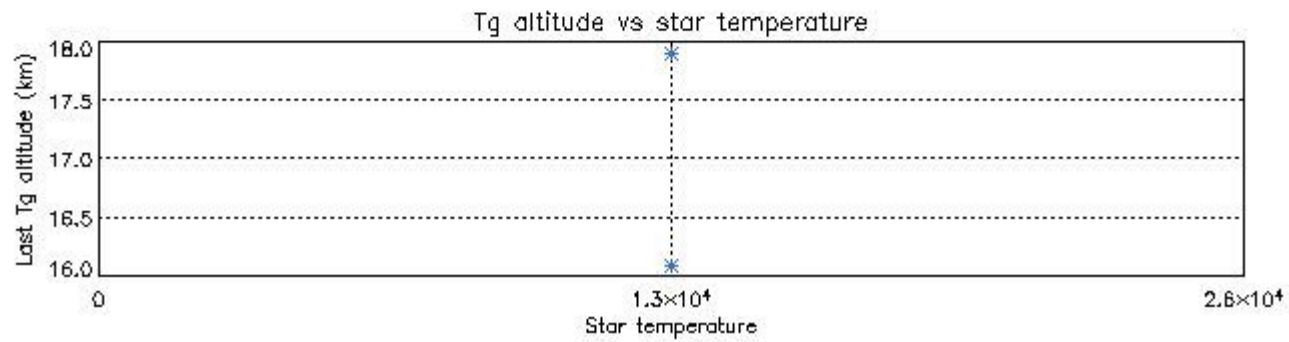
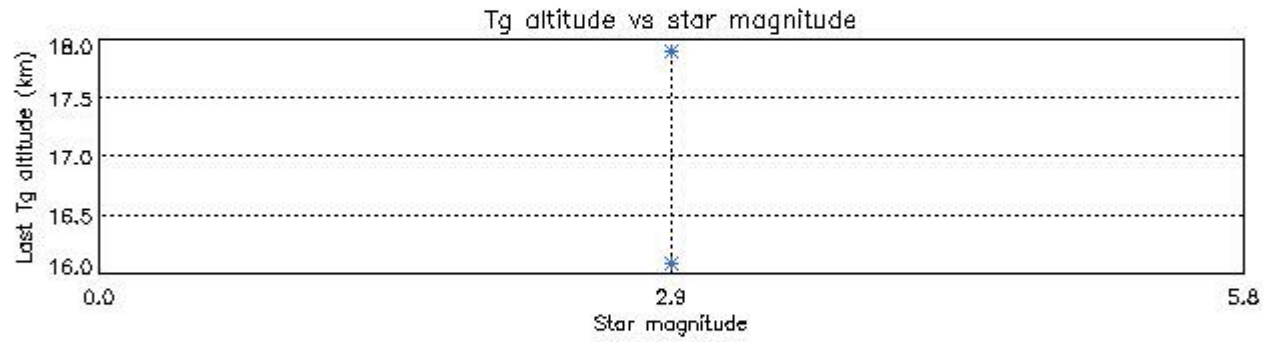
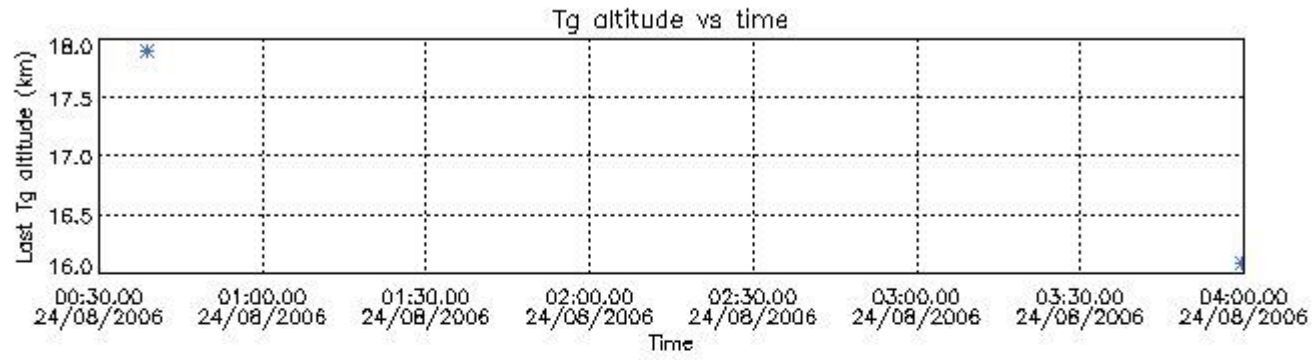
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



Tangent altitude at which the star is lost

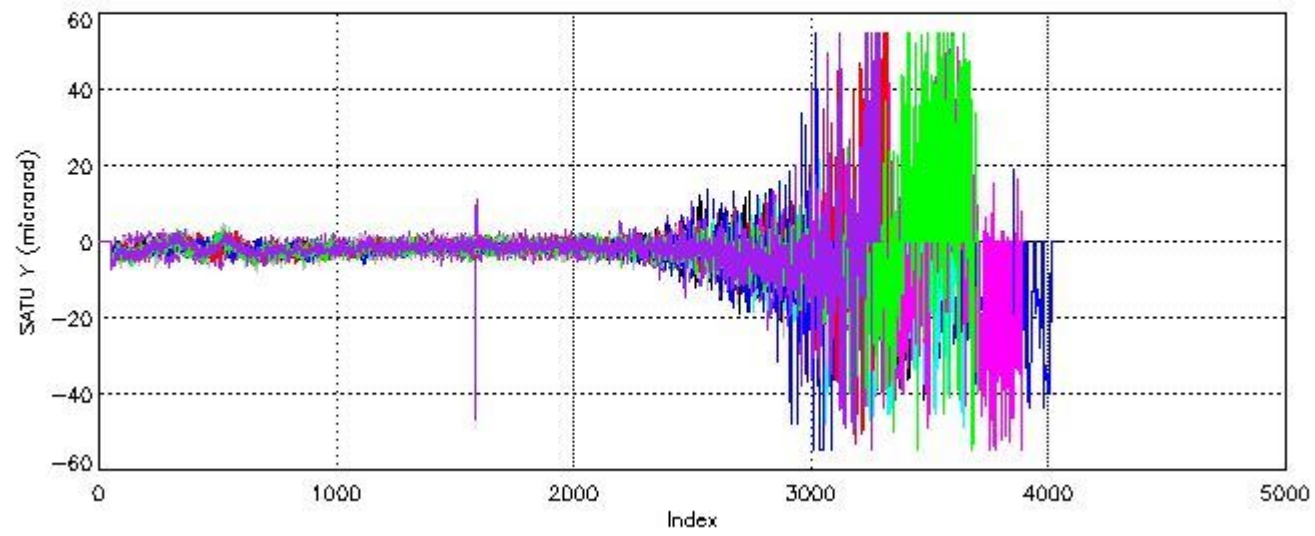
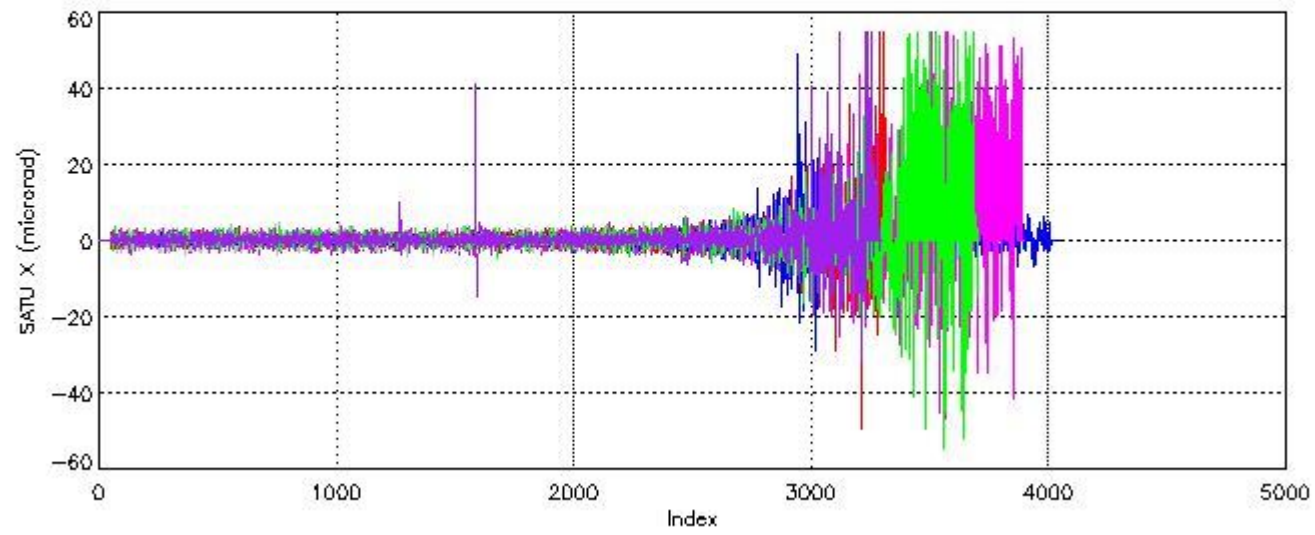


## 7. Star Acquisition and Tracking Unit (SATU)

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.

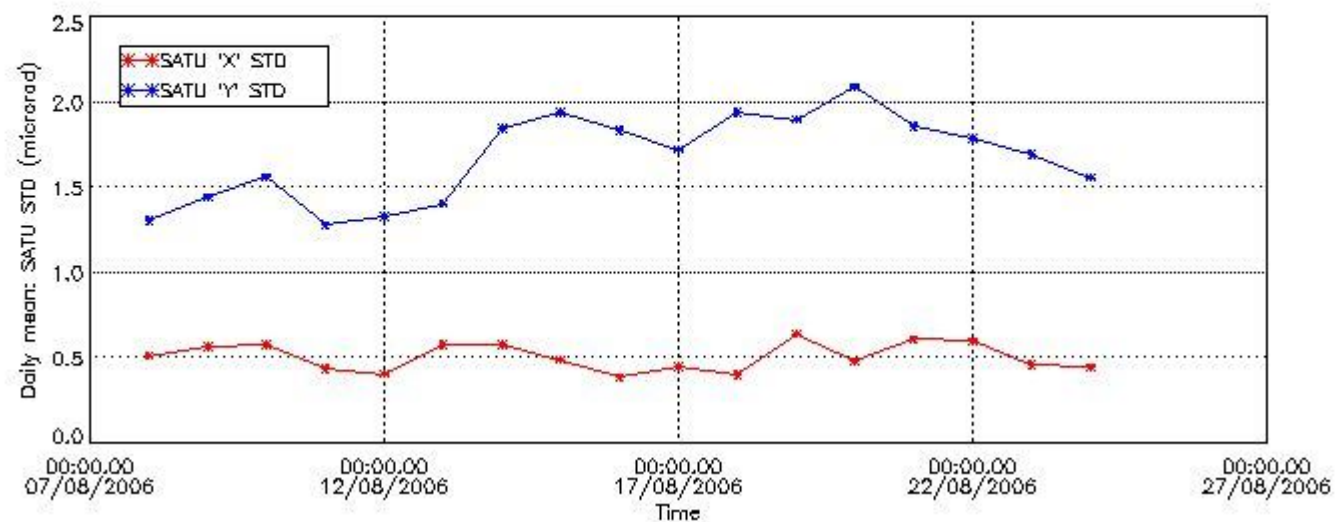
### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	-0.018684	-1.5216	0.16008	-2.2034
St. deviation:	0.44204	1.5539	0.72280	1.5701
Maximum:	3.8000	4.3000	3.5000	2.1000
Minimum:	-3.9000	-8.4000	-2.2000	-4.8000

Number of data:	4400.0	4400.0	1750.0	1750.0
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### 7.2.2 Trend of daily SATU NEA St. deviation during the last two months (dark limb)

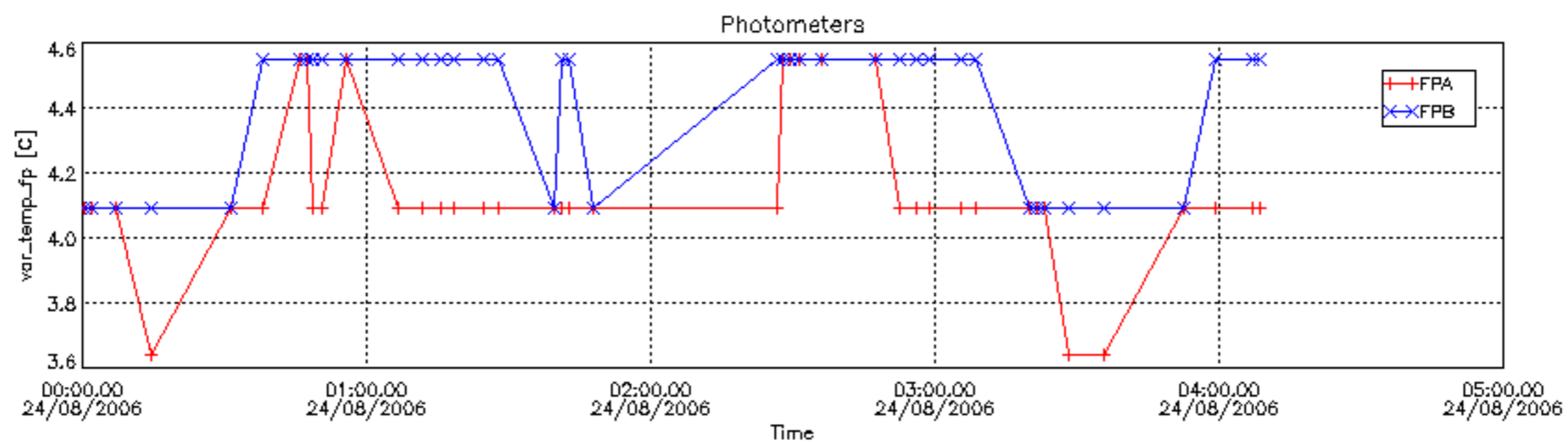
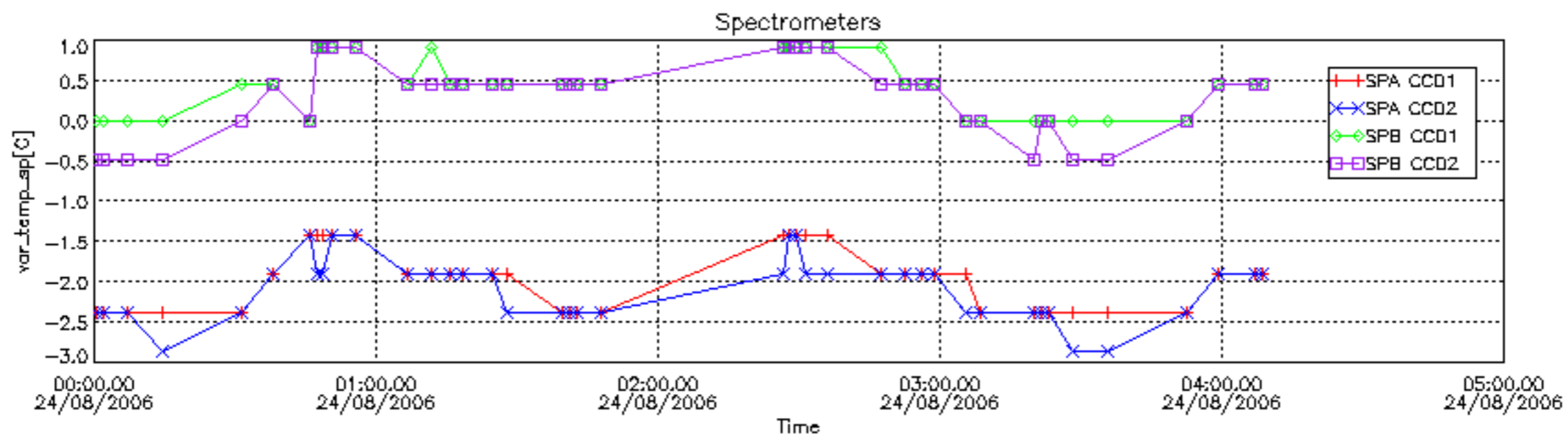
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

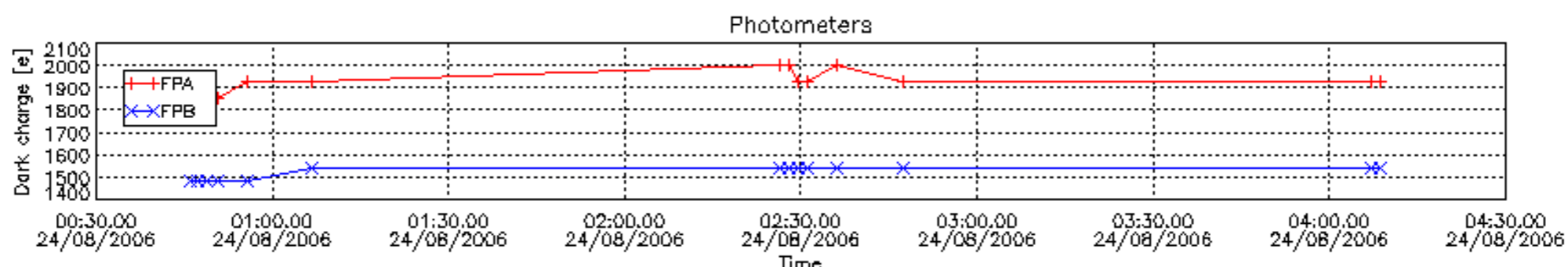
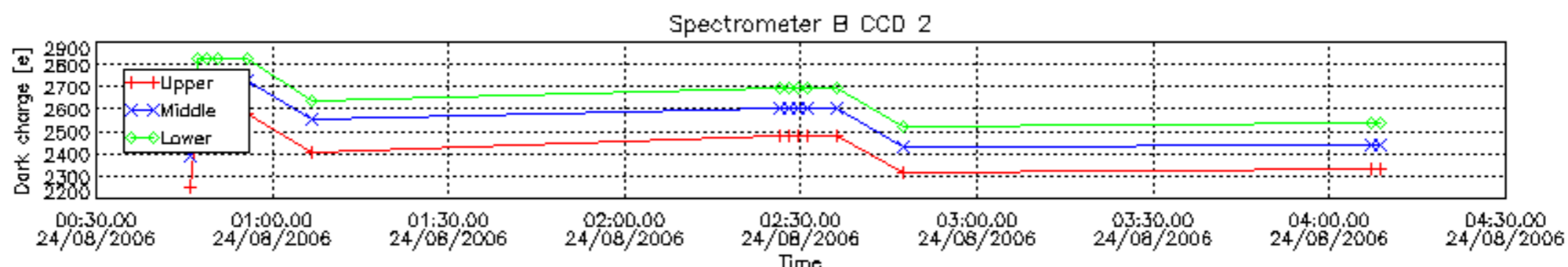
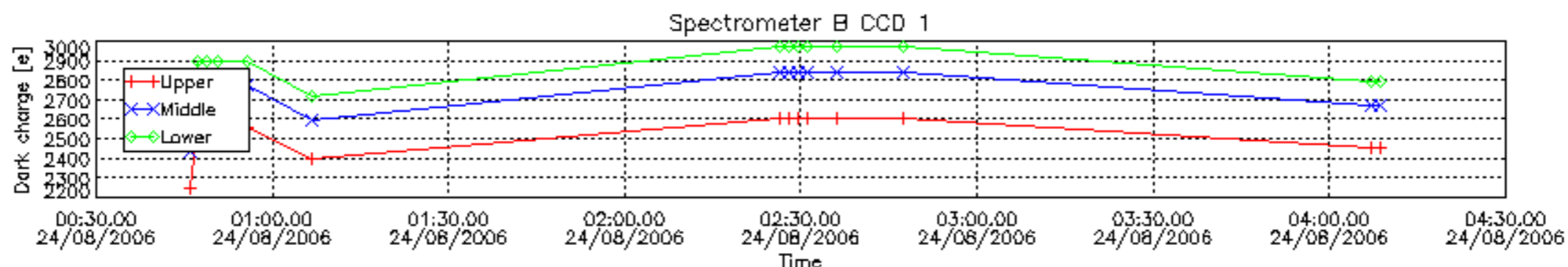
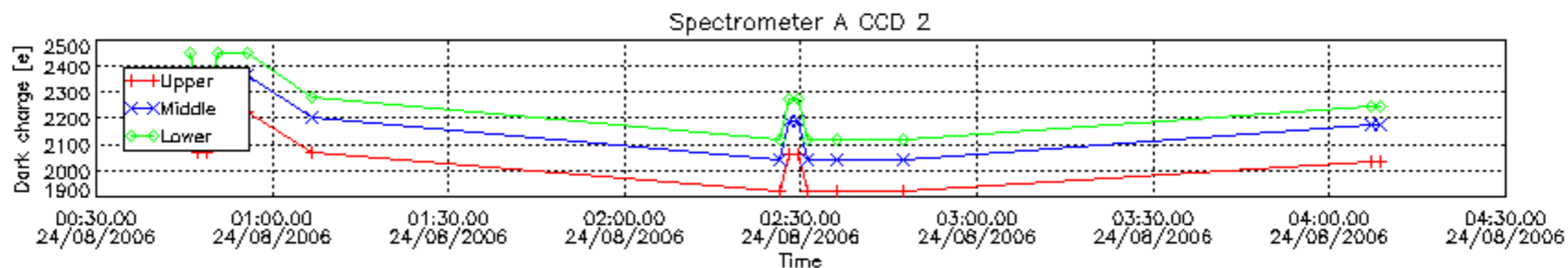
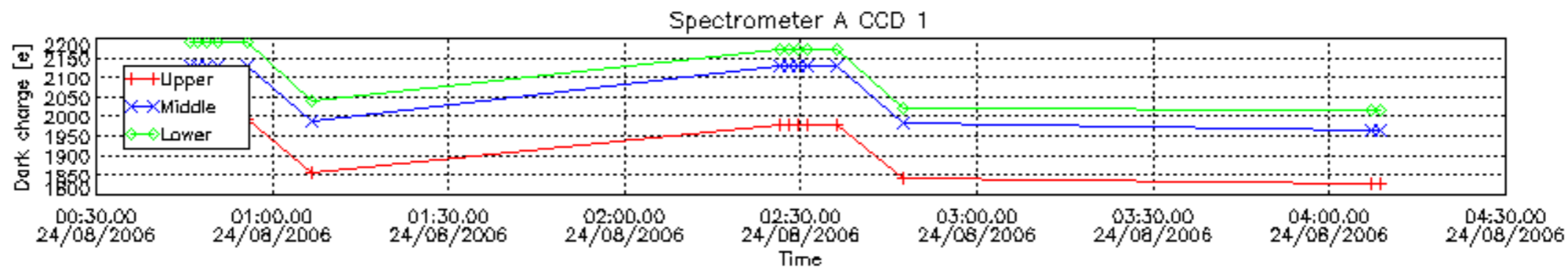


### 8. Auxiliary Data Files used for the production reported in section 2.2

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.

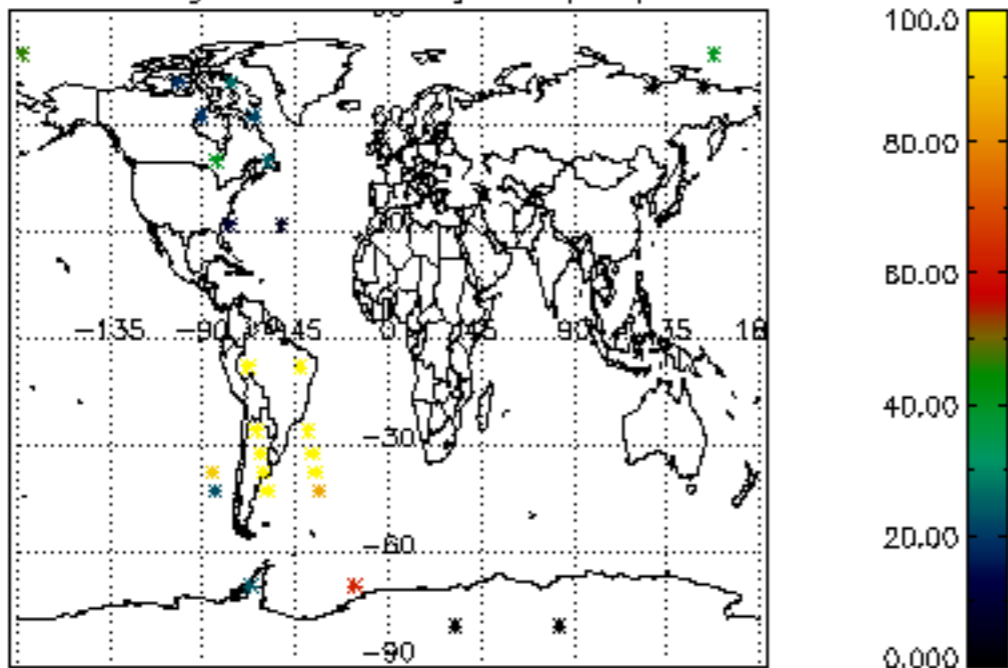
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	24-AUG-2006 00:00:33
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060817_094138_20060816_000000_20100101_000000	1	24-AUG-2006 00:00:33
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	24-AUG-2006 00:00:33
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	24-AUG-2006 00:00:33
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	24-AUG-2006 00:00:33
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ECMWF_FILE	AUX_ECF_AXNECM20060823_062856_20060823_210000_20060824_090000	11	24-AUG-2006 00:55:38
ECMWF_FILE	AUX_ECA_AXNECM20060824_061725_20060823_210000_20060824_090000	12	24-AUG-2006 01:06:48
ECMWF_FILE	AUX_ECF_AXNECM20060823_183722_20060824_030000_20060824_150000	38	24-AUG-2006 03:52:28
OPTIONAL_ECMWF_FILE	MISSING	1	24-AUG-2006 00:00:33
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ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060824_004332_000054192050_00331_23431_0412.N1	7	24-AUG-2006 00:45:53
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060824_021911_000041442050_00332_23432_0413.N1	22	24-AUG-2006 02:26:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060824_033334_000057382050_00333_23433_0414.N1	38	24-AUG-2006 03:52:28



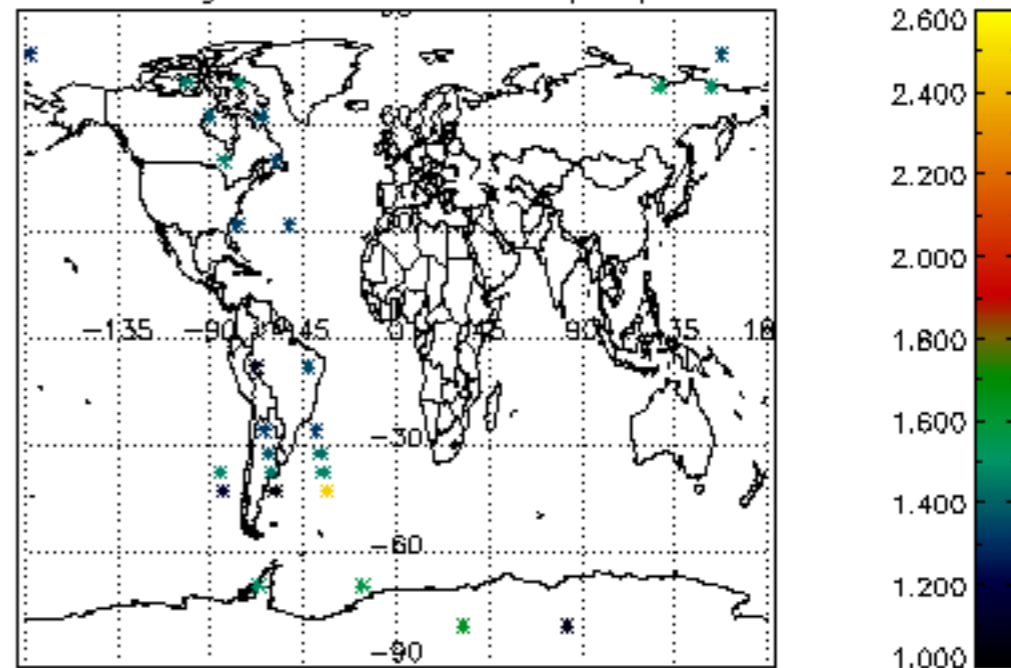




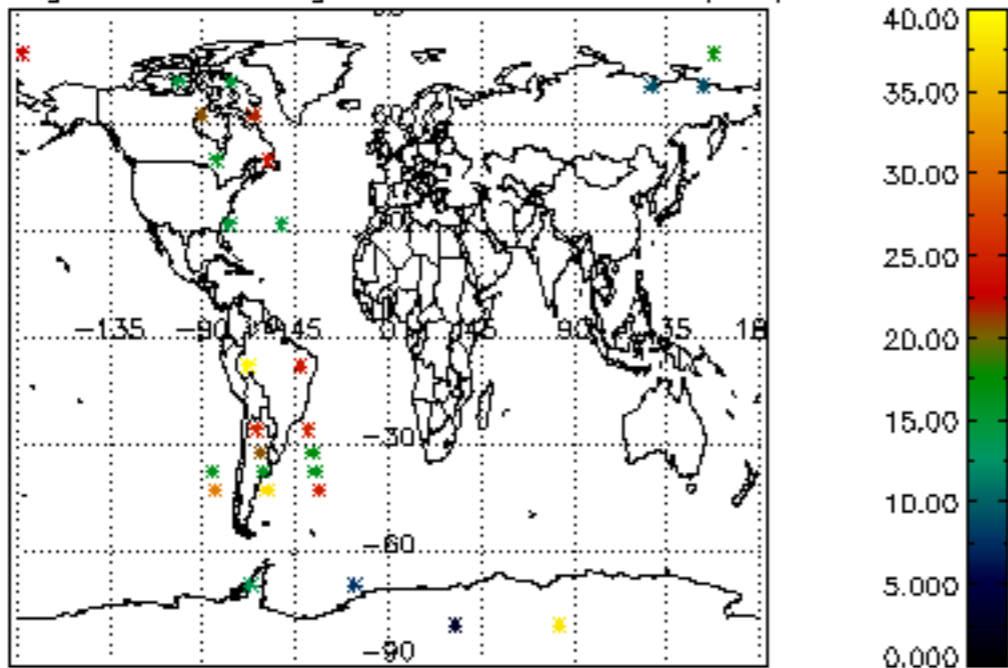
Percentage of cosmic ray hits per profile



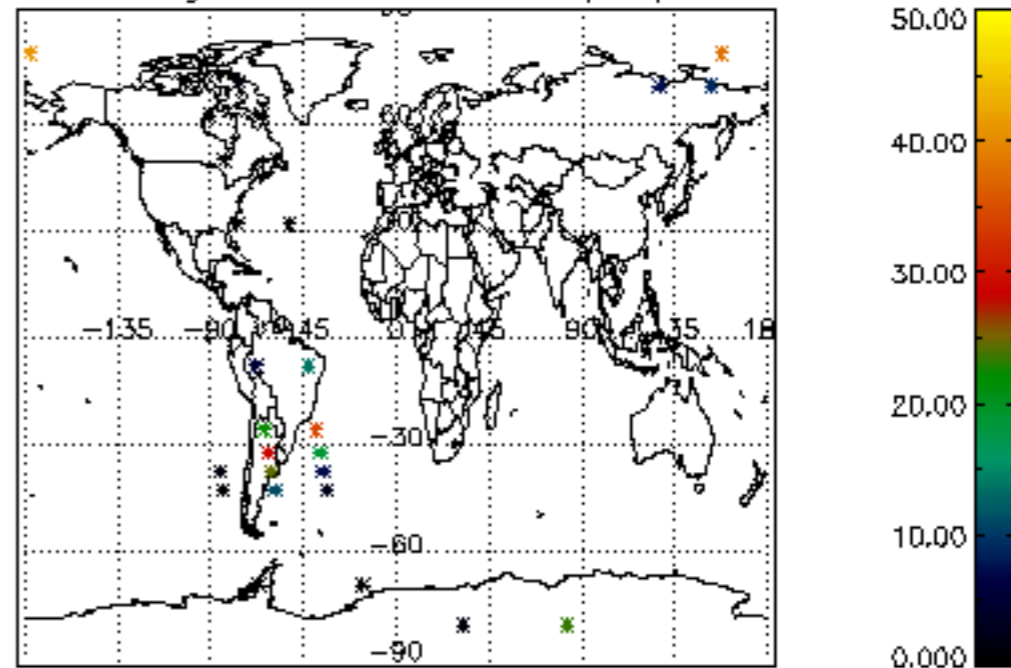
Percentage of datation errors per profile



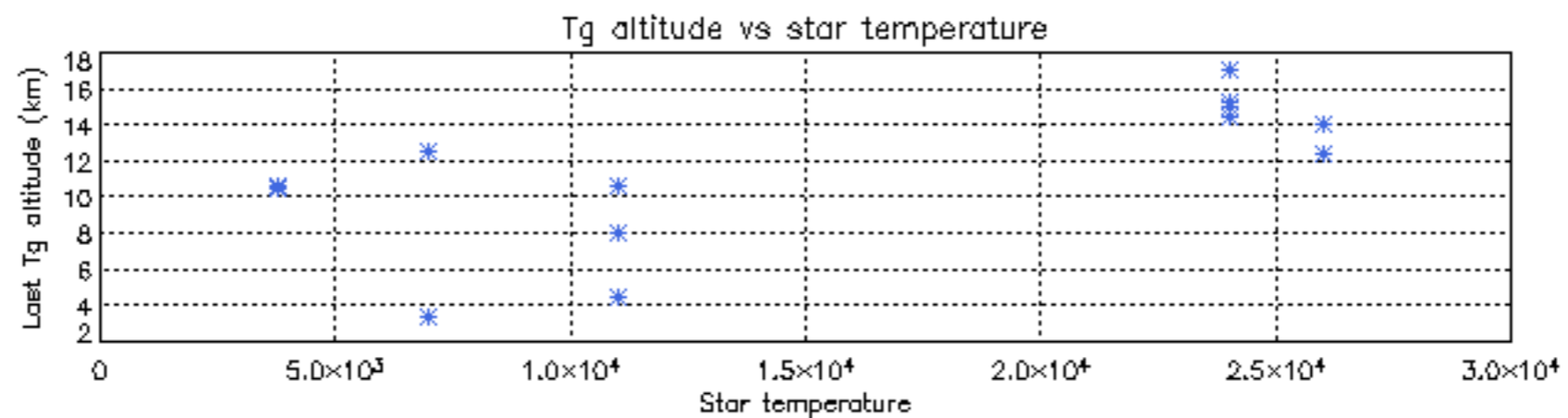
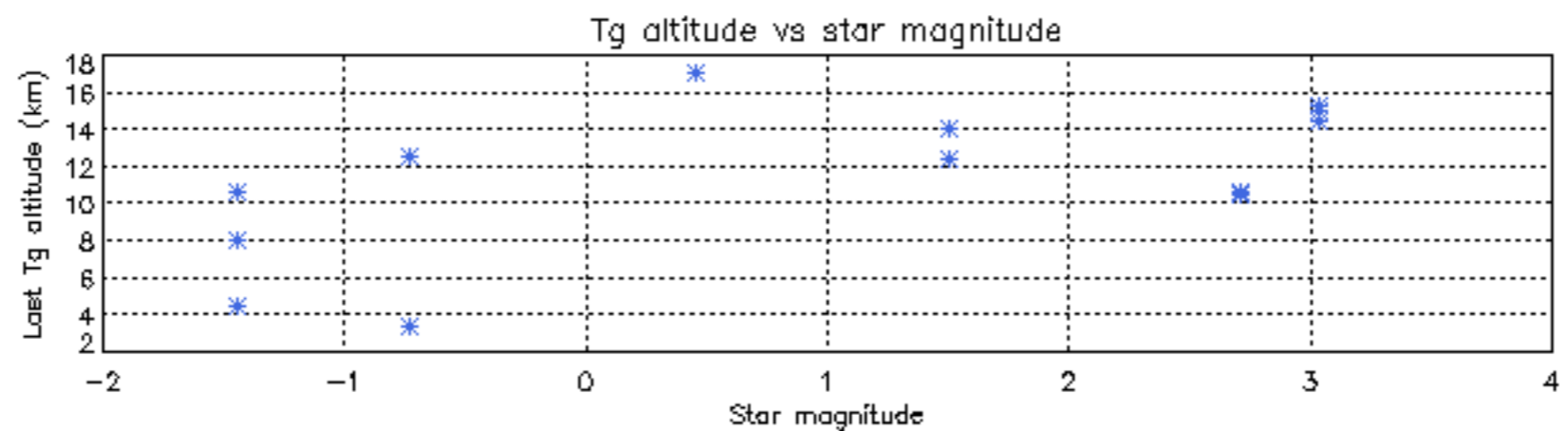
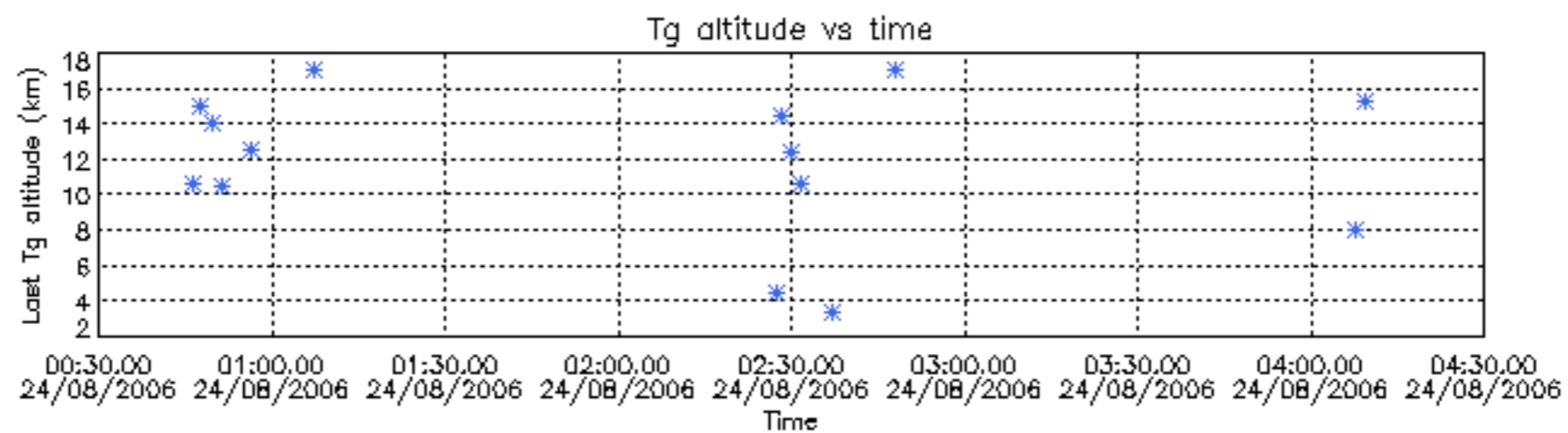
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

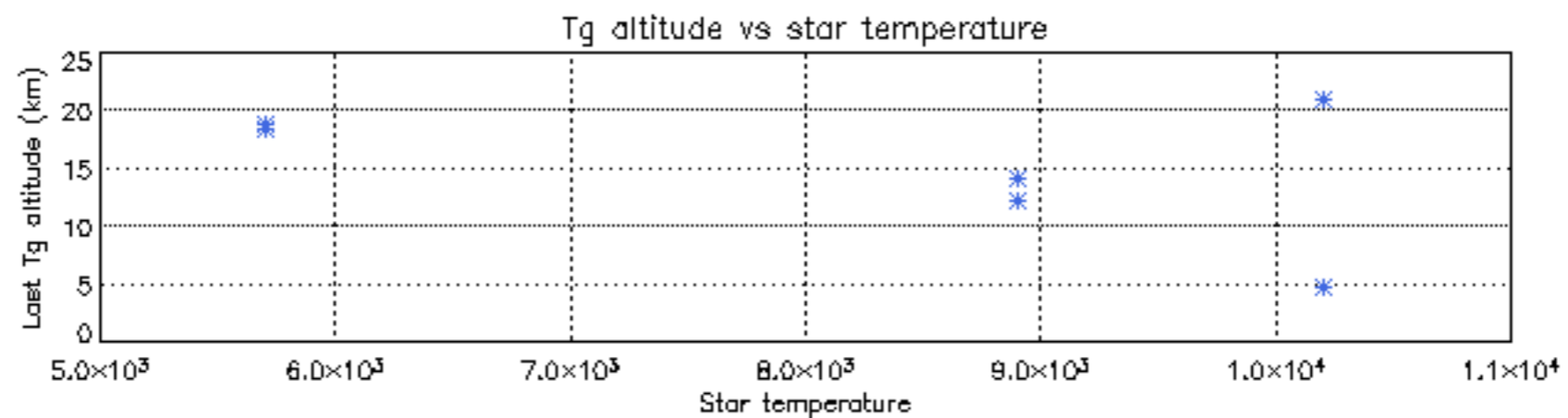
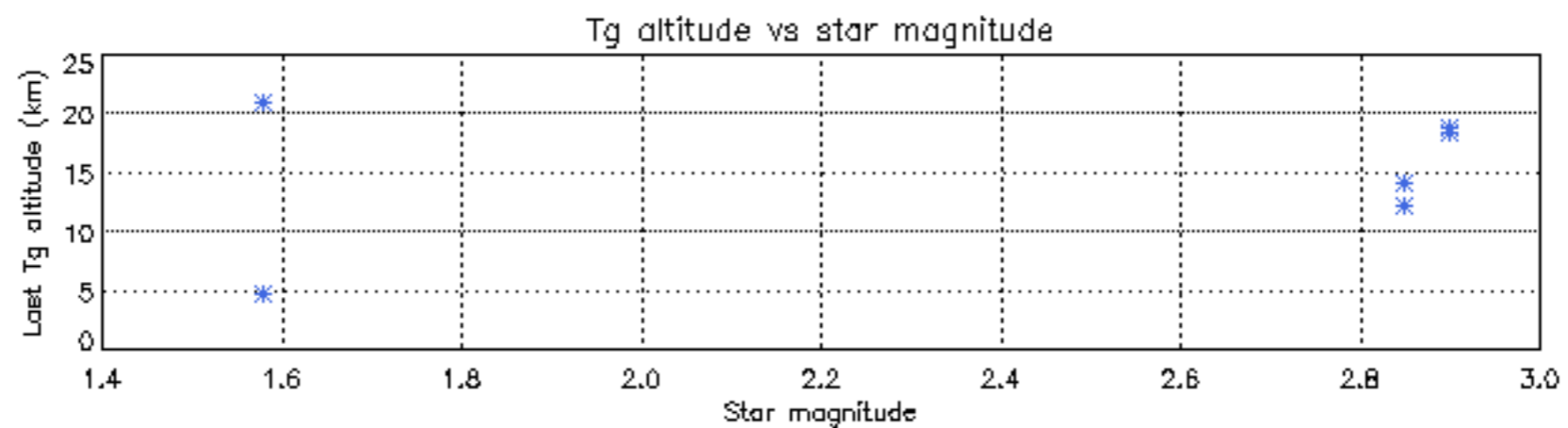
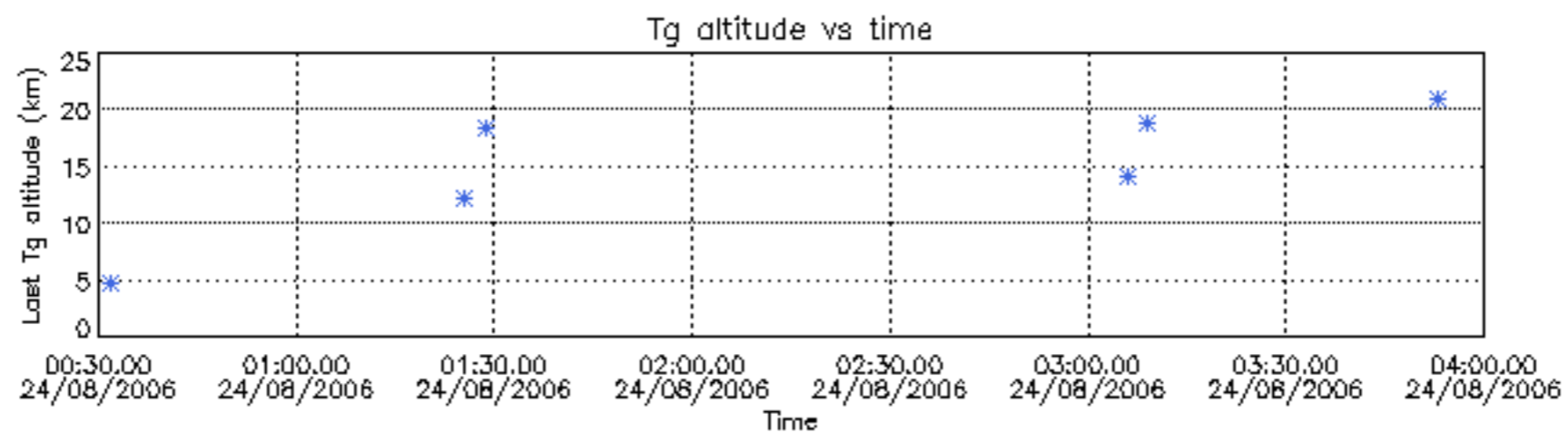


Tangent altitude at which the star is lost

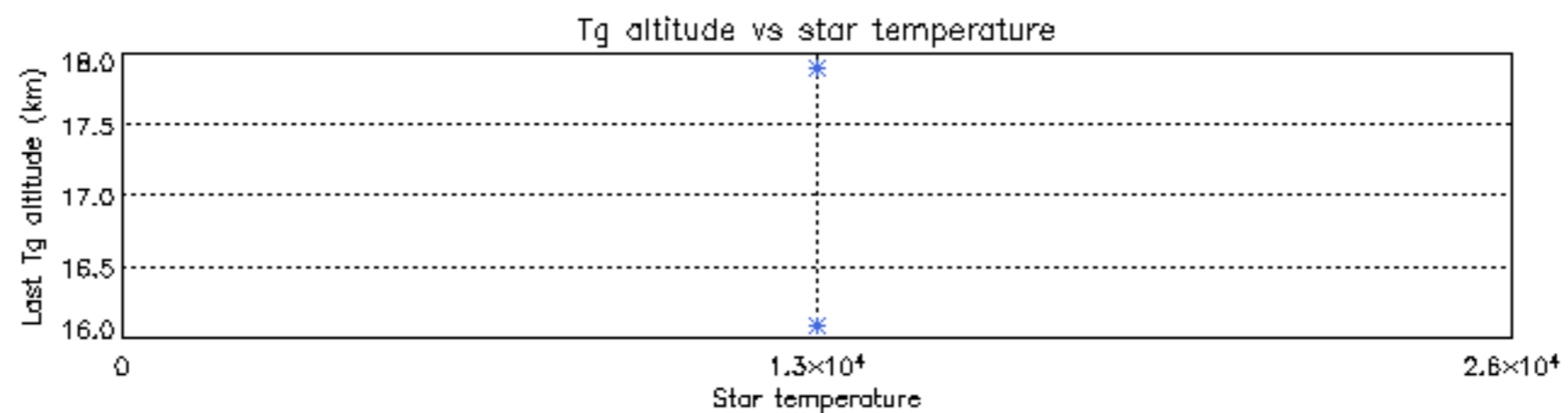
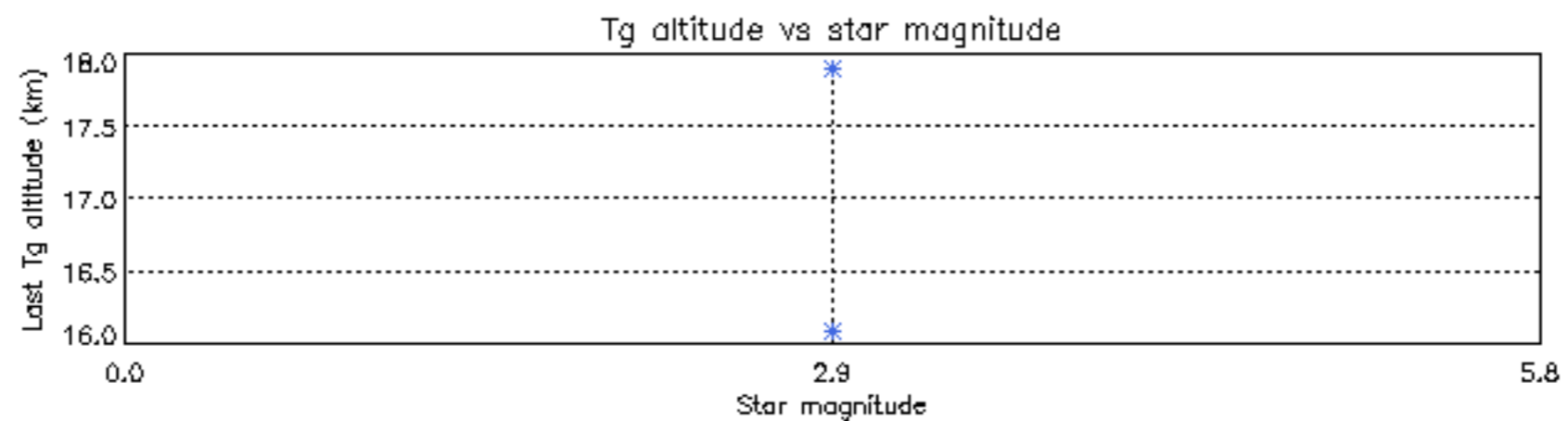
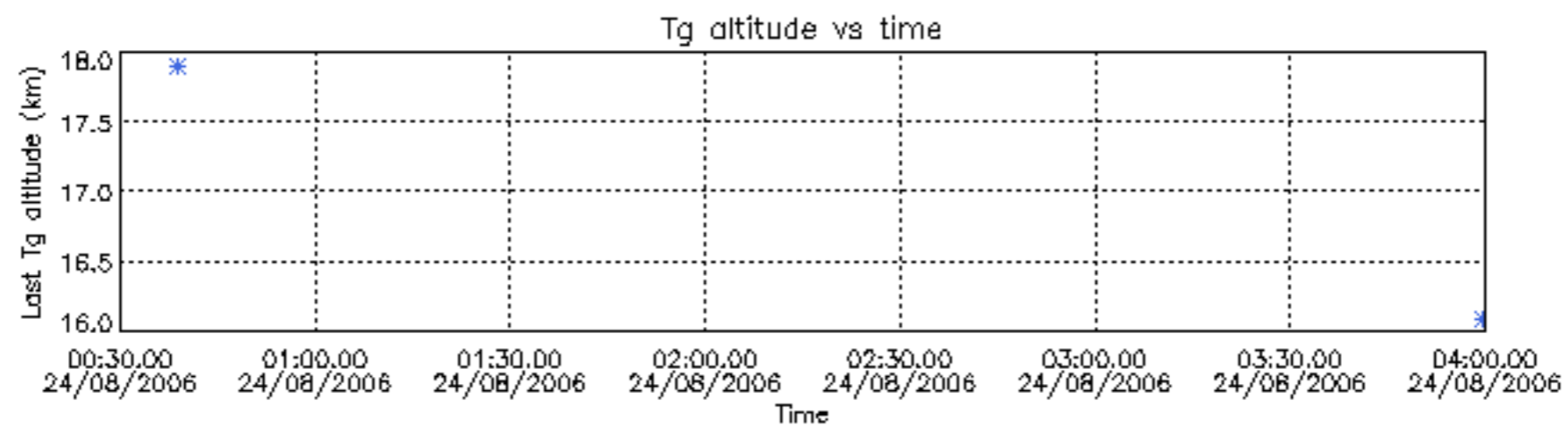


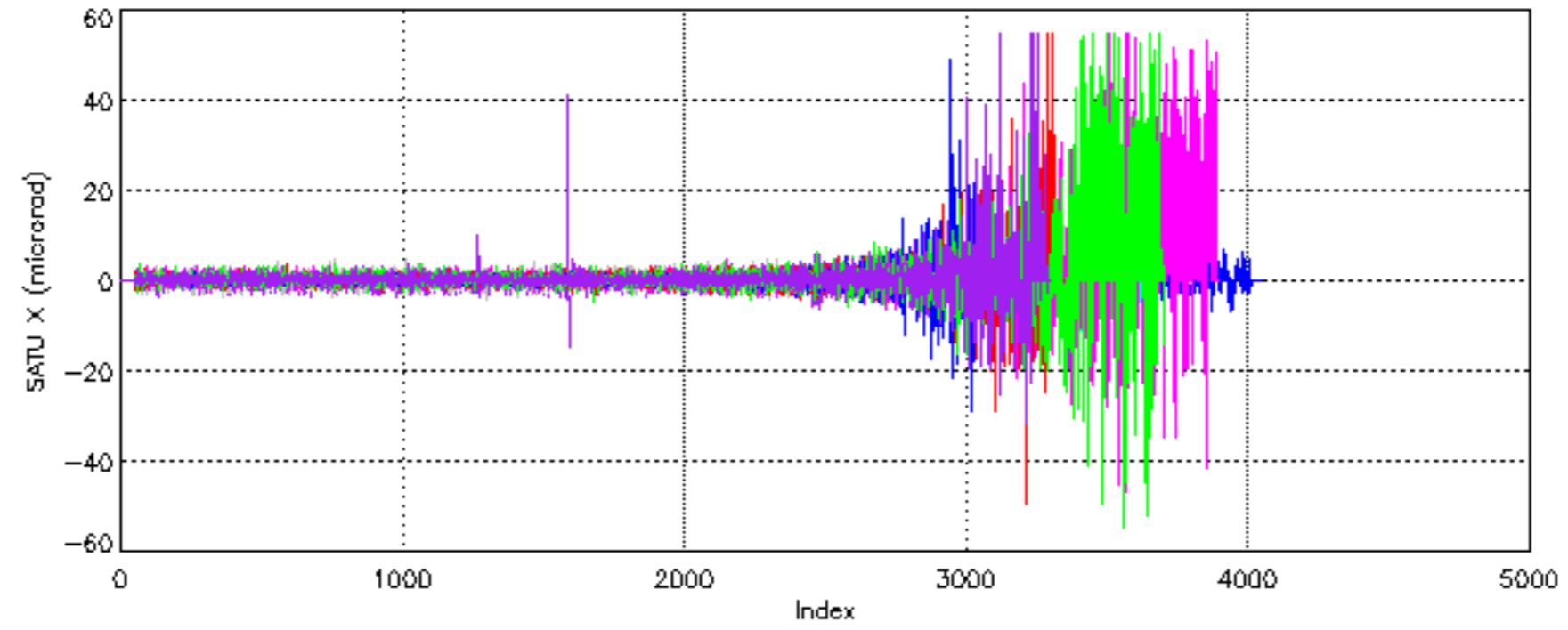


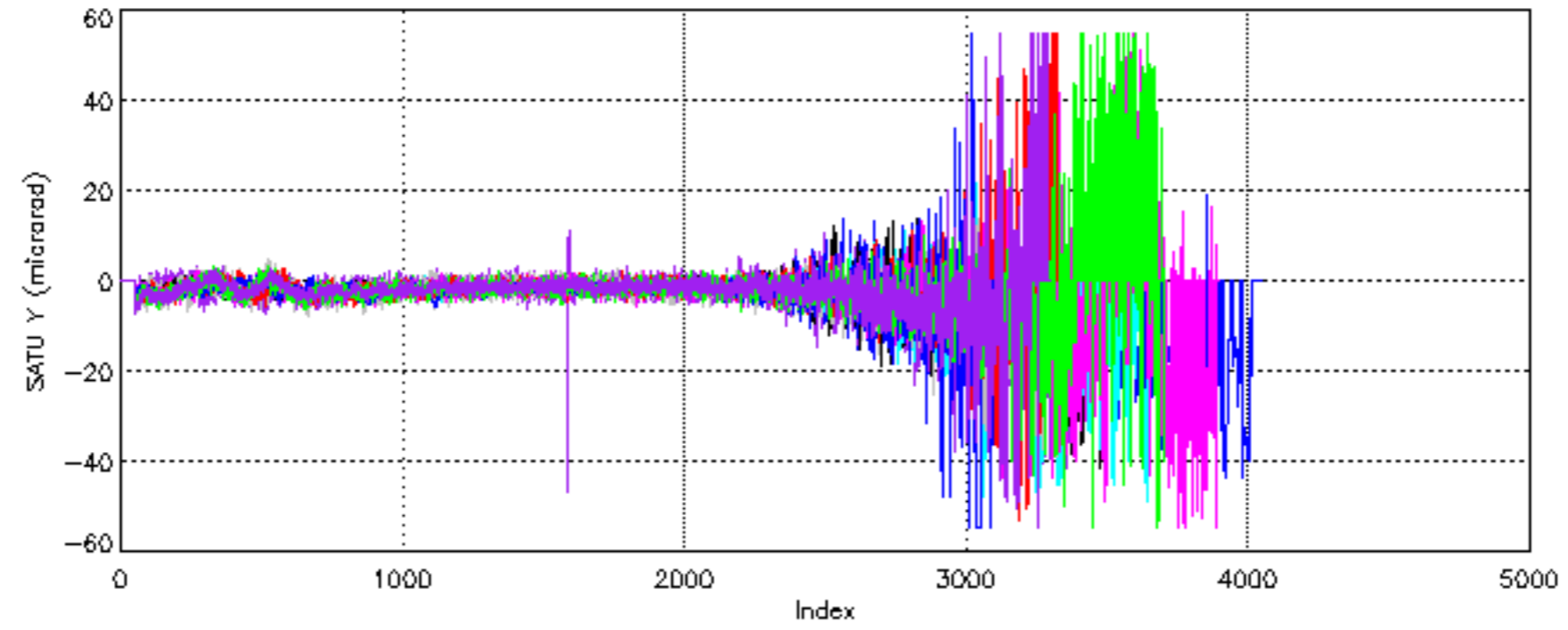
Tangent altitude at which the star is lost

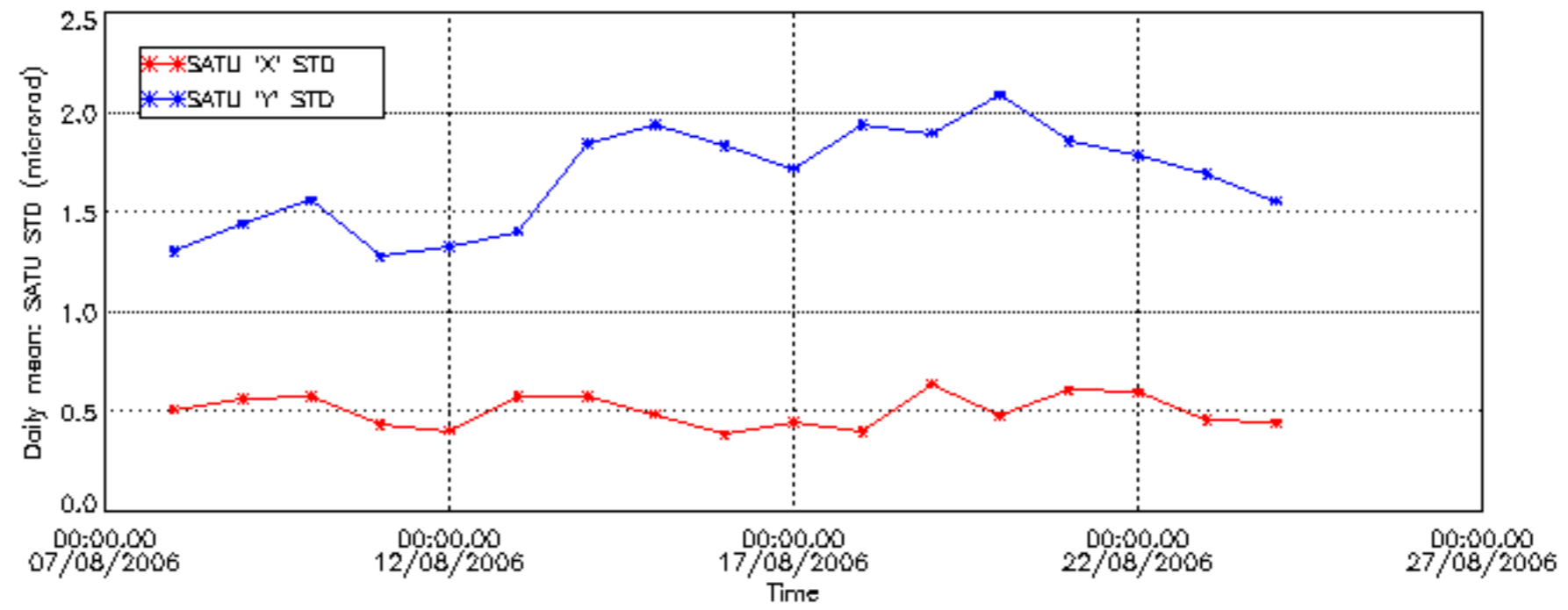


Tangent altitude at which the star is lost









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 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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 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  
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 17; 2150.9; 01-AUG-2006 03:37:20; Bright; 29.5; 168; 17Zet Aql ; 2.99; 11000;occ; 59; 0;23104  
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 13; 724.0; 01-AUG-2006 04:54:09; Dark ; 36.0; 148; Alp Tuc ; 2.88; 4100;occ; 72; 0;23105  
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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  
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 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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4; 1807.2; 31-AUG-2006 17:53:48; Bright; 38.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 76; 0;23542
5; 1896.0; 31-AUG-2006 17:55:17; Bright; 40.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 80; 0;23542
6; 2076.2; 31-AUG-2006 17:58:18; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;23542
7; 2487.8; 31-AUG-2006 18:05:09; Bright; 36.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 73; 0;23542
8; 2600.0; 31-AUG-2006 18:07:01; Bright; 34.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 69; 0;23542
9; 2678.5; 31-AUG-2006 18:08:20; Bright; 37.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 75; 0;23542
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11; 3435.0; 31-AUG-2006 18:20:56; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;23542
12; 4452.3; 31-AUG-2006 18:37:54; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;23542
13; 4913.5; 31-AUG-2006 18:45:35; Dark ; 52.0; 8; 10Alp CMi ; 0.40; 6500;occ; 104; 0;23542
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16; 5632.5; 31-AUG-2006 18:57:34; Dark ; 41.5; 117; Pi Pup ; 2.71; 3800;occ; 83; 0;23542
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19; 6560.5; 31-AUG-2006 19:13:02; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;23542
20; 6637.1; 31-AUG-2006 19:14:18; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;23542
21; 7119.4; 31-AUG-2006 19:22:21; Dark ; 5.0; 31; Alp Gru ; 1.73; 15200;occ; 10; 0;23542
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