

# GOMOS Daily Report 22-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	24AUG2006 04:31:55
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (22AUG2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (23AUG2006 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	48
Nb of prods with errors	12

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

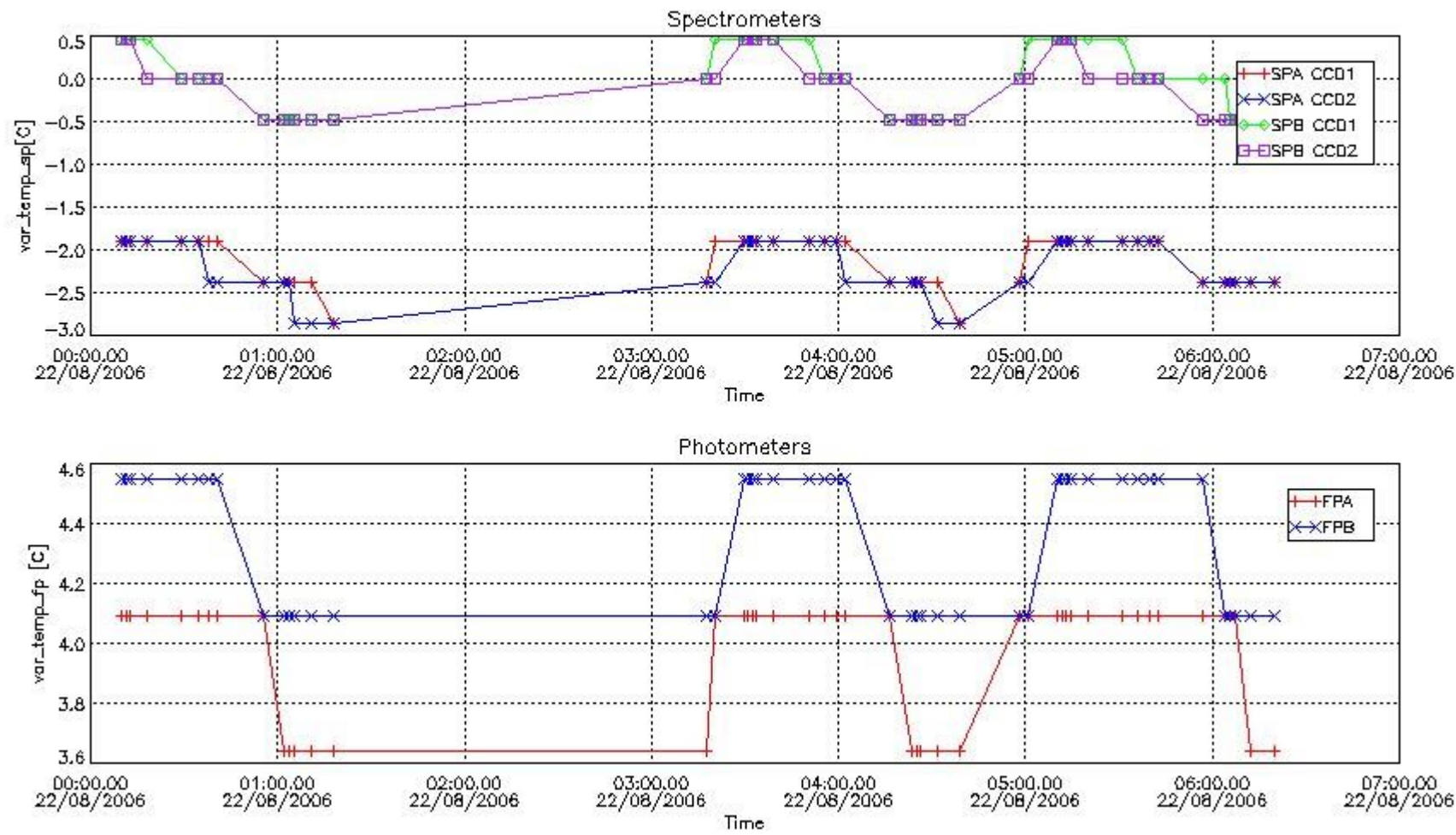
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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_1PNPDE20060822_000949_000000342050_00302_23402_1006.N1	22-AUG-2006 00:09:49	Dark	33.500	179	24Omi2CMa	3.0320	24000.	67	23402	No
2	GOM_TRA_1PNPDE20060822_001117_000000362050_00302_23402_0984.N1	22-AUG-2006 00:11:17	Dark	36.000	23	21Eps CMa	1.5020	26000.	72	23402	No
3	GOM_TRA_1PNPDE20060822_001232_000000342050_00302_23402_0985.N1	22-AUG-2006 00:12:32	Dark	33.500	177	1Zet CMa	3.0220	26000.	67	23402	No
4	GOM_TRA_1PNPDE20060822_001807_000000392050_00302_23402_0986.N1	22-AUG-2006 00:18:07	Dark	39.000	2	Alp Car	-0.73600	7000.0	78	23402	No
5	GOM_TRA_1PNPDE20060822_002907_000000382050_00303_23403_0987.N1	22-AUG-2006 00:29:07	Dark	37.500	9	Alp Eri	0.45300	24000.	75	23403	No
6	GOM_TRA_1PNPDE20060822_003422_000000432050_00303_23403_0988.N1	22-AUG-2006 00:34:22	Straylight	42.500	148	Alp Tuc	2.8780	4100.0	85	23403	No
7	GOM_TRA_1PNPDE20060822_003758_000000362050_00303_23403_0989.N1	22-AUG-2006 00:37:58	Straylight	35.500	31	Alp Gru	1.7340	15200.	71	23403	No
8	GOM_TRA_1PNPDE20060822_004053_000000362050_00303_23403_0990.N1	22-AUG-2006 00:40:53	Straylight	35.500	172	Gam Gru	3.0030	13100.	71	23403	No
9	GOM_TRA_1PNPDE20060822_005512_000000292050_00303_23403_0991.N1	22-AUG-2006 00:55:12	Bright	29.000	11	53Alp Aql	0.76500	8000.0	58	23403	No
10	GOM_TRA_1PNPDE20060822_010206_000000302050_00303_23403_0992.N1	22-AUG-2006 01:02:06	Bright	30.000	92	53Eps Cyg	2.5000	4500.0	60	23403	Yes
11	GOM_TRA_1PNPDE20060822_010348_000000322050_00303_23403_0993.N1	22-AUG-2006 01:03:48	Bright	32.000	66	37Gam Cyg	2.2080	5900.0	64	23403	Yes
12	GOM_TRA_1PNPDE20060822_010515_000000302050_00303_23403_0994.N1	22-AUG-2006 01:05:15	Bright	30.000	144	18Del Cyg	2.8600	11000.	60	23403	Yes
13	GOM_TRA_1PNPDE20060822_011033_000000322050_00303_23403_0995.N1	22-AUG-2006 01:10:33	Bright	31.500	89	5Alp Cep	2.4510	8000.0	63	23403	No
14	GOM_TRA_1PNPDE20060822_011752_000000302050_00303_23403_0996.N1	22-AUG-2006 01:17:52	Bright	29.500	49	1Alp UMi	1.9900	6300.0	59	23403	Yes
15	GOM_TRA_1PNPDE20060822_031732_000000352050_00304_23404_0984.N1	22-AUG-2006 03:17:32	Bright	35.000	170	27Eps Gem	3.0000	9700.0	70	23404	No
16	GOM_TRA_1PNPDE20060822_032015_000000382050_00304_23404_0985.N1	22-AUG-2006 03:20:15	Twilight	37.500	44	24Gam Gem	1.9280	11000.	75	23404	No
17	GOM_TRA_1PNPDE20060822_032931_000000482050_00304_23404_0986.N1	22-AUG-2006 03:29:31	Dark	47.500	1	9Alp CMa	-1.4400	11000.	95	23404	No
18	GOM_TRA_1PNPDE20060822_033102_000000352050_00304_23404_0987.N1	22-AUG-2006 03:31:02	Dark	35.000	179	24Omi2CMa	3.0320	24000.	70	23404	No
19	GOM_TRA_1PNPDE20060822_033229_000000372050_00304_23404_0988.N1	22-AUG-2006 03:32:29	Dark	37.000	23	21Eps CMa	1.5020	26000.	74	23404	No
20	GOM_TRA_1PNPDE20060822_033345_000000342050_00304_23404_0989.N1	22-AUG-2006 03:33:45	Dark	34.000	177	1Zet CMa	3.0220	26000.	68	23404	No
21	GOM_TRA_1PNPDE20060822_033919_000000422050_00304_23404_0990.N1	22-AUG-2006 03:39:19	Dark	41.500	2	Alp Car	-0.73600	7000.0	83	23404	No
22	GOM_TRA_1PNPDE20060822_035020_000000402050_00305_23405_0991.N1	22-AUG-2006 03:50:20	Dark	39.500	9	Alp Eri	0.45300	24000.	79	23405	No
23	GOM_TRA_1PNPDE20060822_035534_000000382050_00305_23405_0992.N1	22-AUG-2006 03:55:34	Straylight	37.500	148	Alp Tuc	2.8780	4100.0	75	23405	No
24	GOM_TRA_1PNPDE20060822_035911_000000332050_00305_23405_0993.N1	22-AUG-2006 03:59:11	Straylight	33.000	31	Alp Gru	1.7340	15200.	66	23405	No
25	GOM_TRA_1PNPDE20060822_040205_000000322050_00305_23405_0994.N1	22-AUG-2006 04:02:05	Straylight	32.000	172	Gam Gru	3.0030	13100.	64	23405	No
26	GOM_TRA_1PNPDE20060822_041624_000000312050_00305_23405_0995.N1	22-AUG-2006 04:16:24	Bright	30.500	11	53Alp Aql	0.76500	8000.0	61	23405	No
27	GOM_TRA_1PNPDE20060822_042318_000000312050_00305_23405_0996.N1	22-AUG-2006 04:23:18	Bright	30.500	92	53Eps Cyg	2.5000	4500.0	61	23405	Yes
28	GOM_TRA_1PNPDE20060822_042500_000000322050_00305_23405_0997.N1	22-AUG-2006 04:25:00	Bright	32.000	66	37Gam Cyg	2.2080	5900.0	64	23405	Yes
29	GOM_TRA_1PNPDE20060822_042627_000000292050_00305_23405_0998.N1	22-AUG-2006 04:26:27	Bright	29.000	144	18Del Cyg	2.8600	11000.	58	23405	Yes
30	GOM_TRA_1PNPDE20060822_043144_000000302050_00305_23405_0999.N1	22-AUG-2006 04:31:44	Bright	29.500	89	5Alp Cep	2.4510	8000.0	59	23405	No
31	GOM_TRA_1PNPDE20060822_043904_000000302050_00305_23405_1000.N1	22-AUG-2006 04:39:04	Bright	29.500	49	1Alp UMi	1.9900	6300.0	59	23405	Yes
32	GOM_TRA_1PNPDE20060822_045808_000000342050_00305_23405_0985.N1	22-AUG-2006 04:58:08	Bright	34.000	170	27Eps Gem	3.0000	9700.0	68	23405	No
33	GOM_TRA_1PNPDE20060822_050051_000000392050_00305_23405_0986.N1	22-AUG-2006 05:00:51	Twilight	39.000	44	24Gam Gem	1.9280	11000.	78	23405	No
34	GOM_TRA_1PNPDE20060822_051008_000000432050_00305_23405_0987.N1	22-AUG-2006 05:10:08	Dark	42.500	1	9Alp CMa	-1.4400	11000.	85	23405	No
35	GOM_TRA_1PNPDE20060822_051138_000000342050_00305_23405_0988.N1	22-AUG-2006 05:11:38	Dark	33.500	179	24Omi2CMa	3.0320	24000.	67	23405	No
36	GOM_TRA_1PNPDE20060822_051306_000000372050_00305_23405_0989.N1	22-AUG-2006 05:13:06	Dark	37.000	23	21Eps CMa	1.5020	26000.	74	23405	No
37	GOM_TRA_1PNPDE20060822_051422_000000332050_00305_23405_0990.N1	22-AUG-2006 05:14:22	Dark	32.500	177	1Zet CMa	3.0220	26000.	65	23405	No
38	GOM_TRA_1PNPDE20060822_051956_000000472050_00305_23405_0991.N1	22-AUG-2006 05:19:56	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	23405	No
39	GOM_TRA_1PNPDE20060822_053057_000000392050_00306_23406_0992.N1	22-AUG-2006 05:30:57	Dark	38.500	9	Alp Eri	0.45300	24000.	77	23406	No
40	GOM_TRA_1PNPDE20060822_053611_000000332050_00306_23406_0993.N1	22-AUG-2006 05:36:11	Straylight	33.000	148	Alp Tuc	2.8780	4100.0	66	23406	No
41	GOM_TRA_1PNPDE20060822_053947_000000352050_00306_23406_0994.N1	22-AUG-2006 05:39:47	Straylight	35.000	31	Alp Gru	1.7340	15200.	70	23406	No
42	GOM_TRA_1PNPDE20060822_054242_000000322050_00306_23406_0995.N1	22-AUG-2006 05:42:42	Straylight	32.000	172	Gam Gru	3.0030	13100.	64	23406	No

43	GOM_TRA_1PNPDE20060822_055701_000000322050_00306_23406_0996.N1	22-AUG-2006 05:57:01	Bright	31.500	11	53Alp Aql	0.76500	8000.0	63	23406	No
44	GOM_TRA_1PNPDE20060822_060354_000000292050_00306_23406_0997.N1	22-AUG-2006 06:03:54	Bright	29.000	92	53Eps Cyg	2.5000	4500.0	58	23406	Yes
45	GOM_TRA_1PNPDE20060822_060536_000000322050_00306_23406_0998.N1	22-AUG-2006 06:05:36	Bright	32.000	66	37Gam Cyg	2.2080	5900.0	64	23406	Yes
46	GOM_TRA_1PNPDE20060822_060703_000000292050_00306_23406_0999.N1	22-AUG-2006 06:07:03	Bright	28.500	144	18Del Cyg	2.8600	11000.	57	23406	Yes
47	GOM_TRA_1PNPDE20060822_061220_000000312050_00306_23406_1000.N1	22-AUG-2006 06:12:20	Bright	30.500	89	5Alp Cep	2.4510	8000.0	61	23406	No
48	GOM_TRA_1PNPDE20060822_061940_000000302050_00306_23406_1001.N1	22-AUG-2006 06:19:40	Bright	29.500	49	1Alp UMi	1.9900	6300.0	59	23406	Yes

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



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

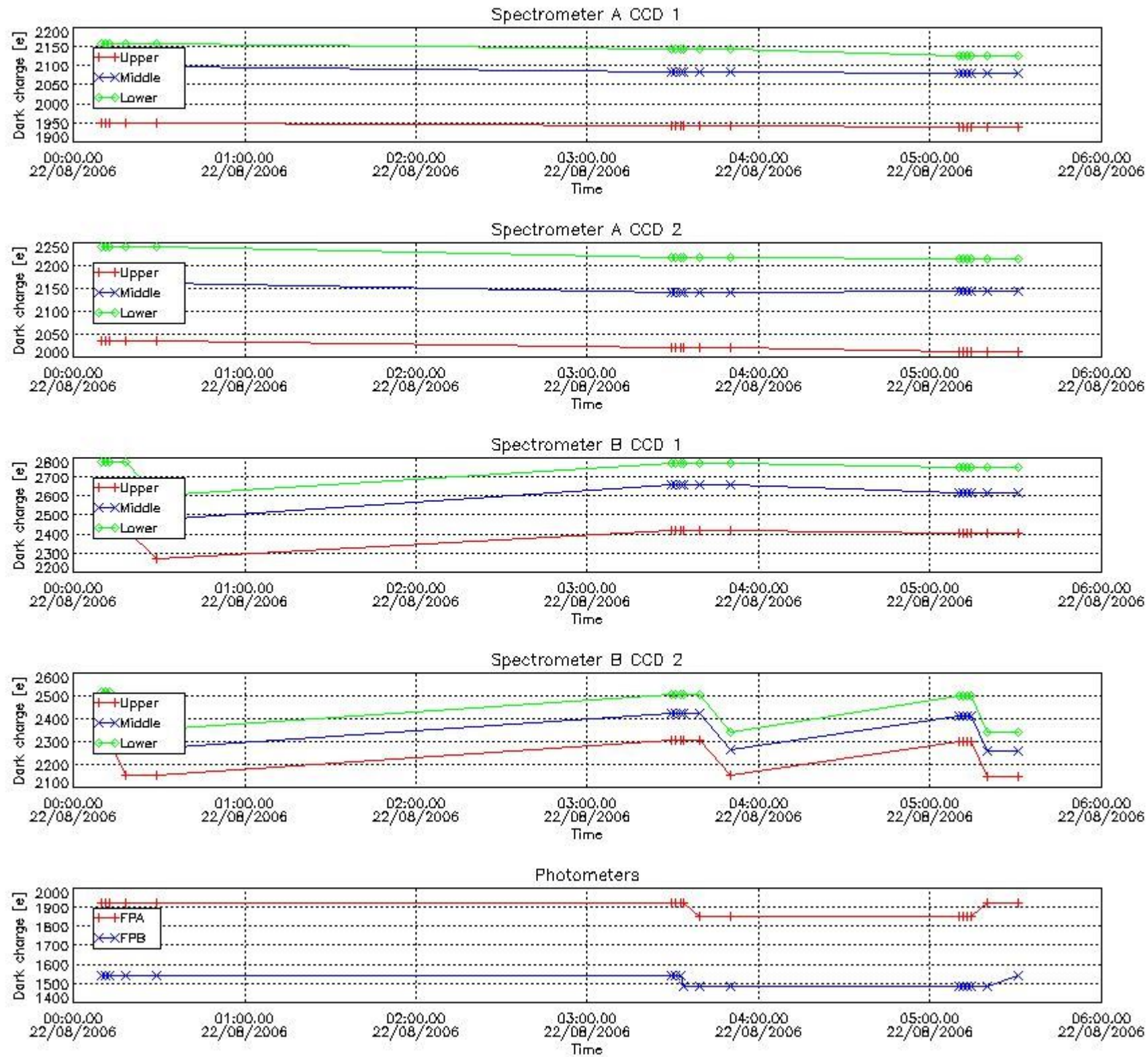
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount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





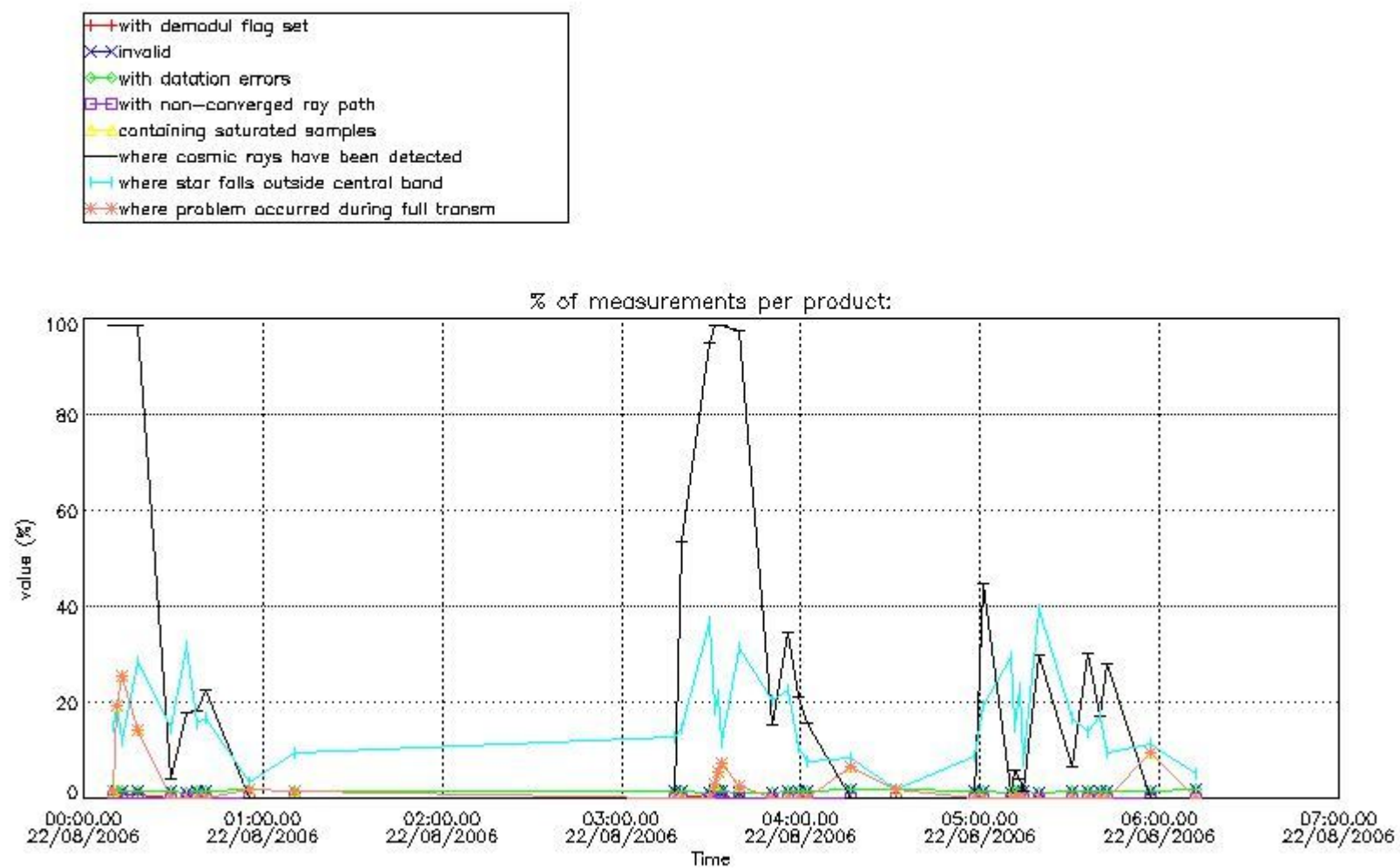
## 5. Demodulation flag and quality information monitoring

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.

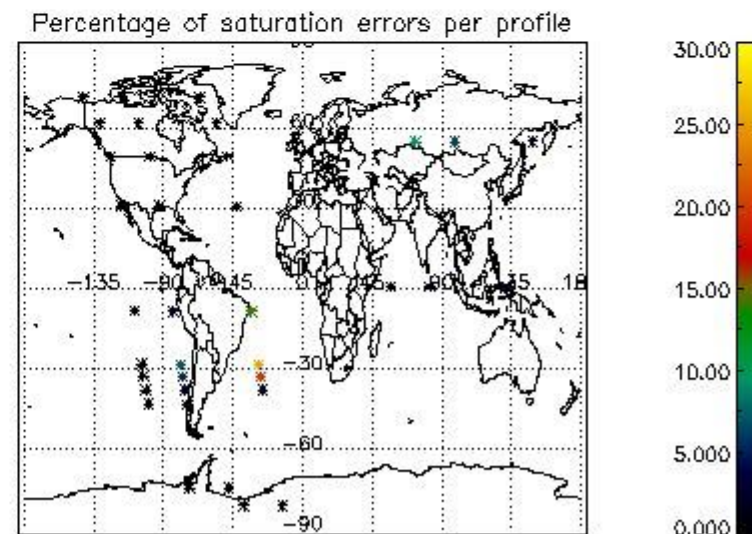
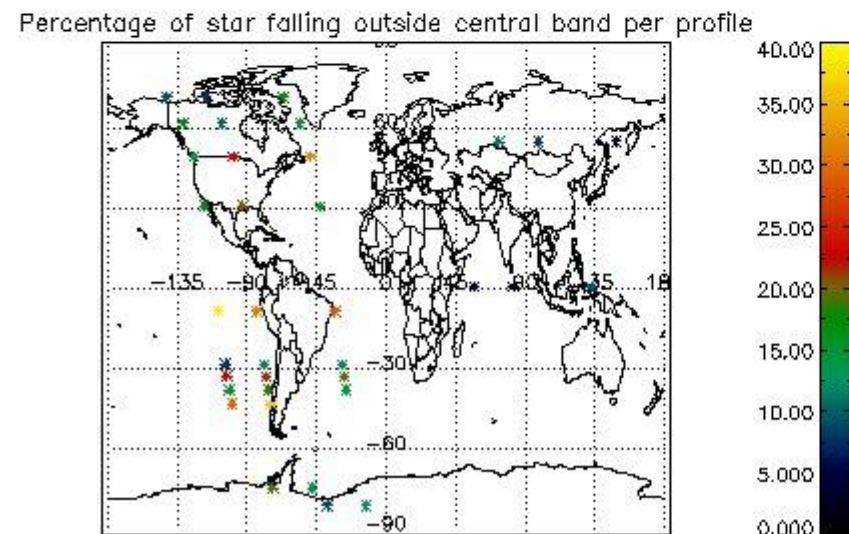
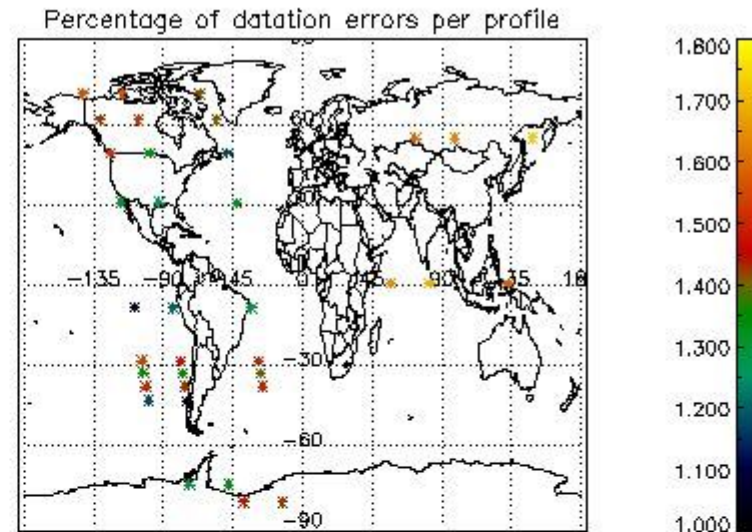
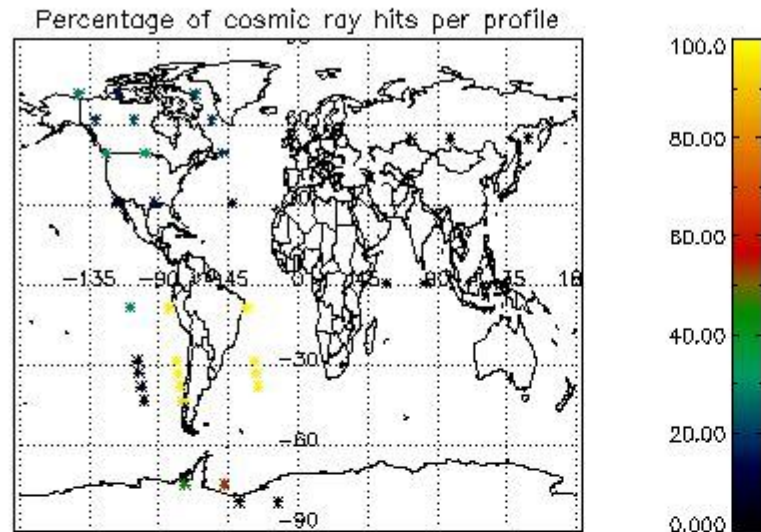
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	36.1111 %
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)

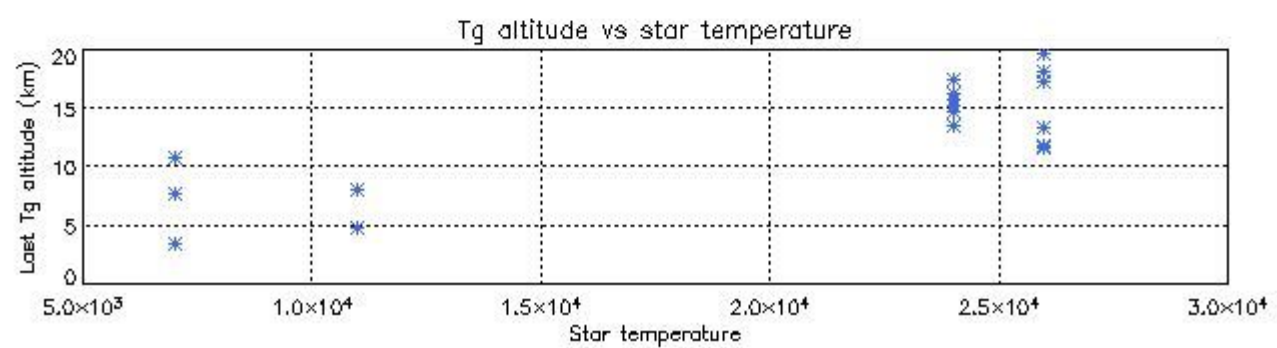
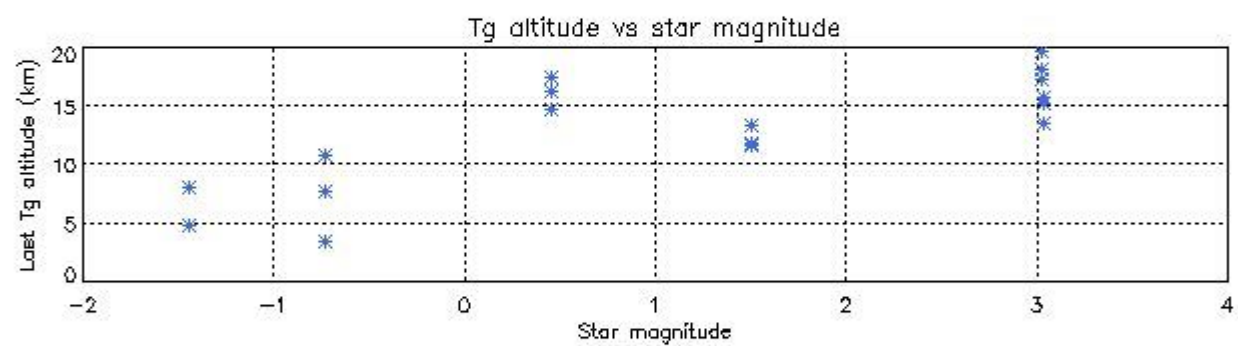
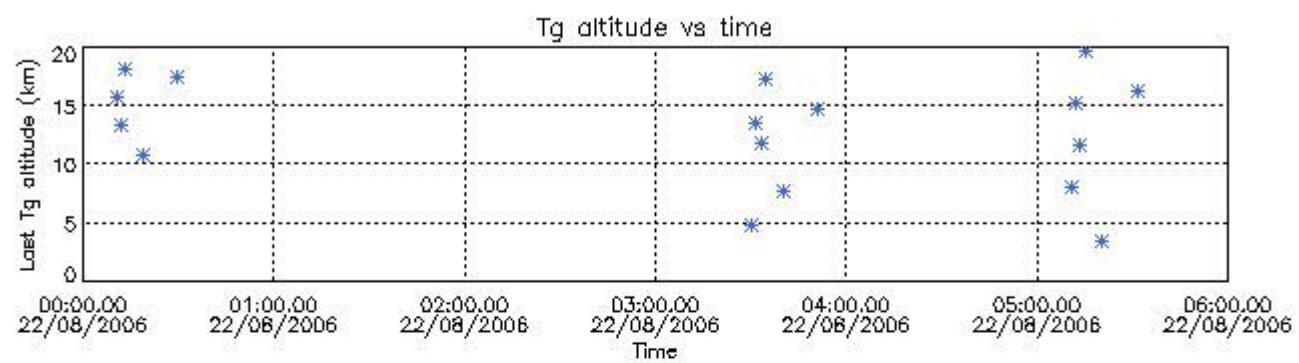
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.889	20.354	NaN
St. deviation:	4.7005	2.8851	NaN
Maximum:	19.702	24.658	NaN
Minimum:	3.4042	16.584	NaN
Number of data:	17.000	8.0000	NaN

### 6.2 Plot for DARK limb products

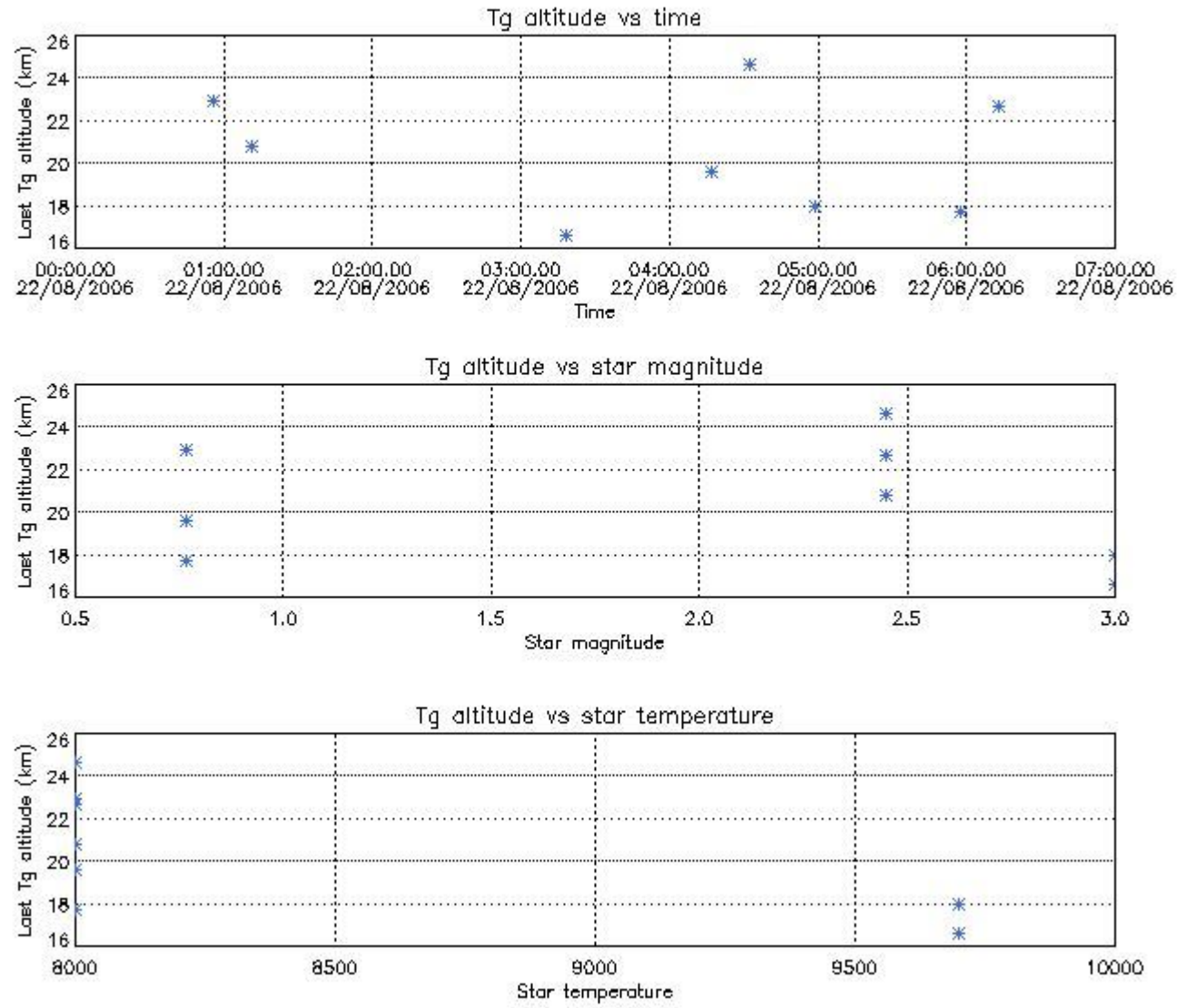


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost



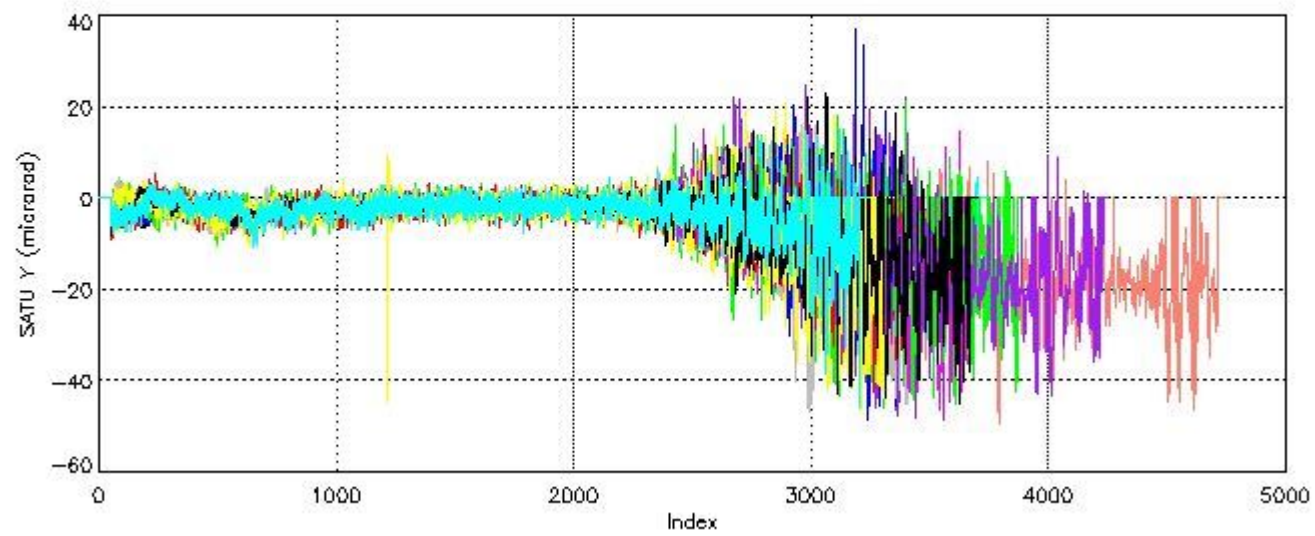
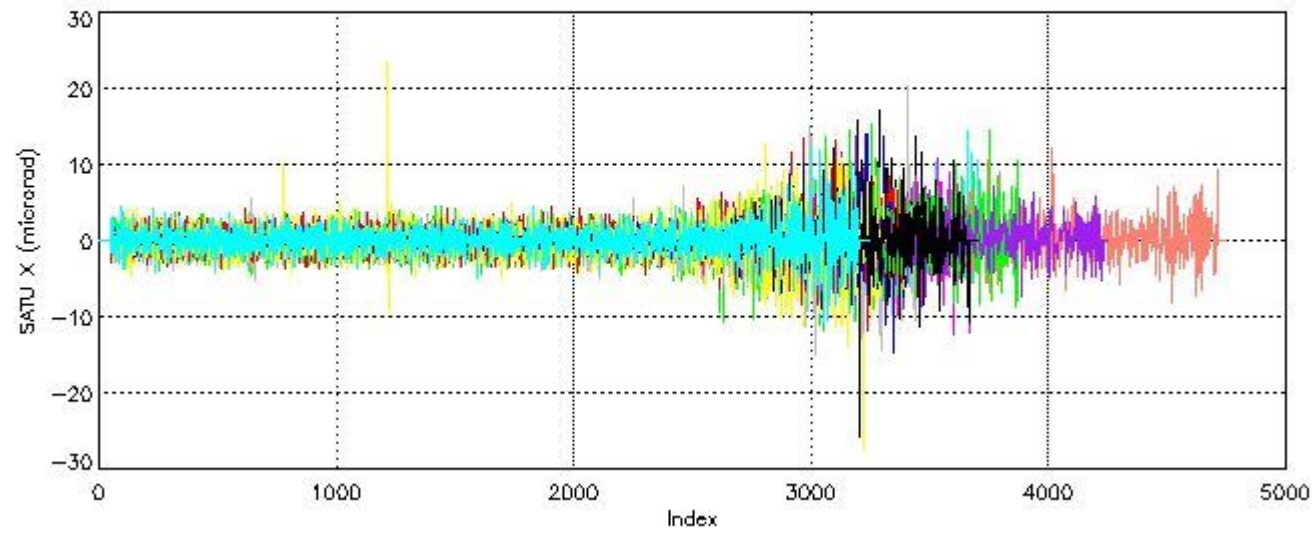
## 7. Star Acquisition and Tracking Unit (SATU)

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.

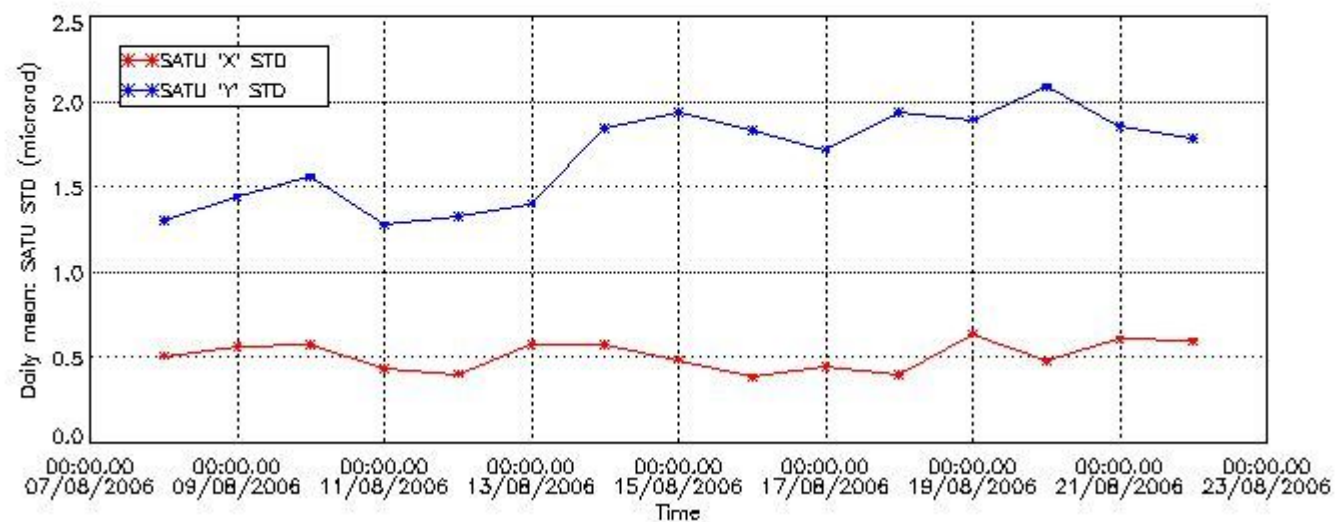
### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.013204	-1.6161	0.071208	-2.9946
St. deviation:	0.59288	1.7813	0.56408	1.8622
Maximum:	4.6000	5.2000	3.4000	1.4664E-14
Minimum:	-0.20000	-5.5000	-2.3000	-6.2000

Number of data:	5550.0	5550.0	2150.0	2150.0
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### 7.2.2 Trend of daily SATU NEA St. deviation during the last two months (dark limb)

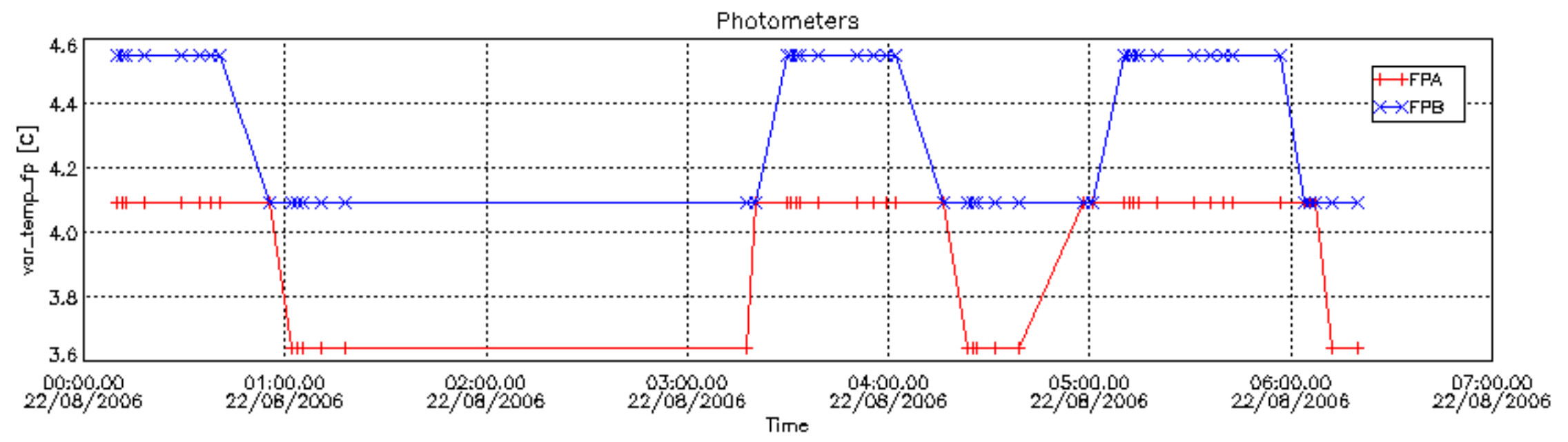
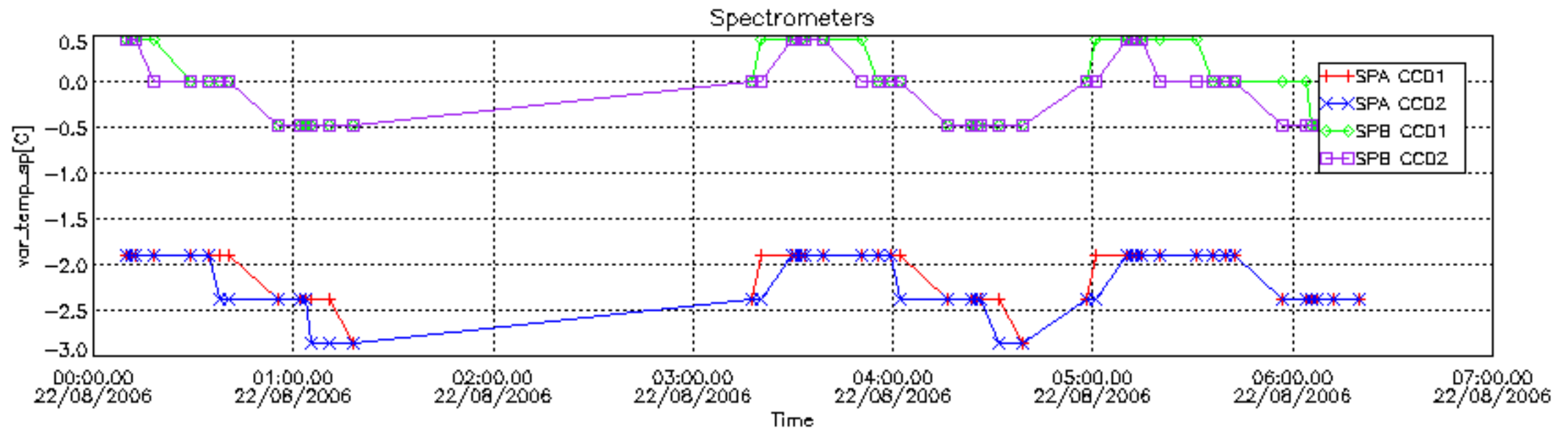
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

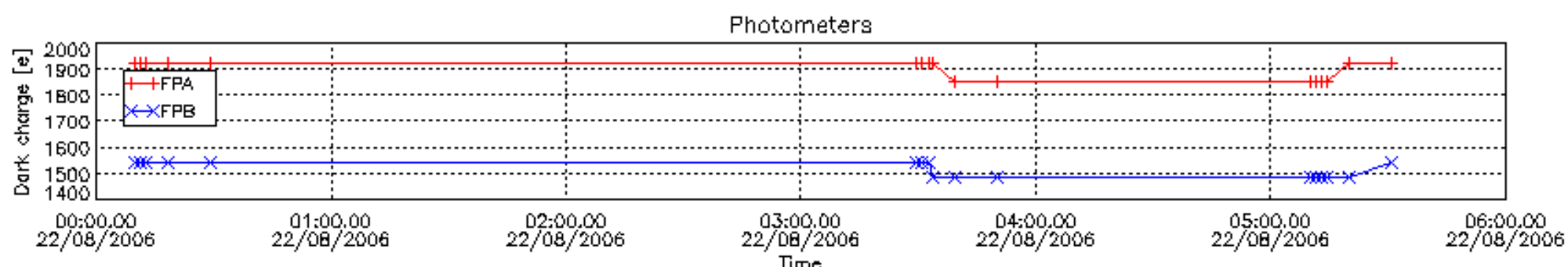
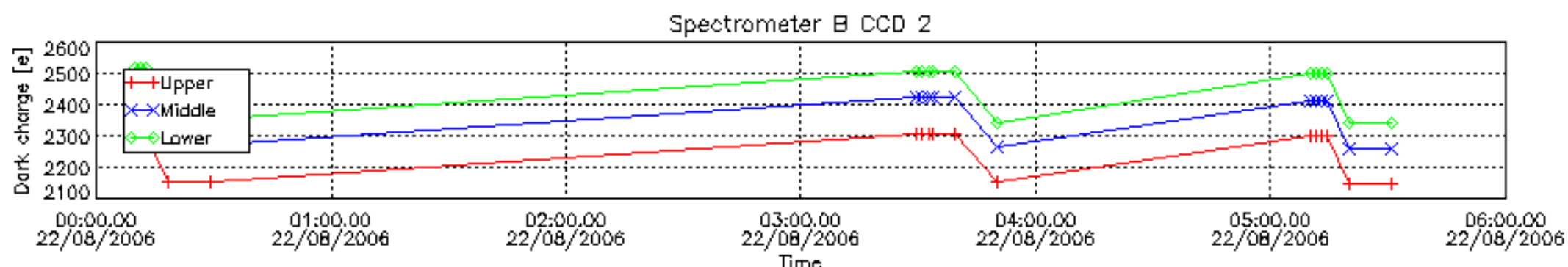
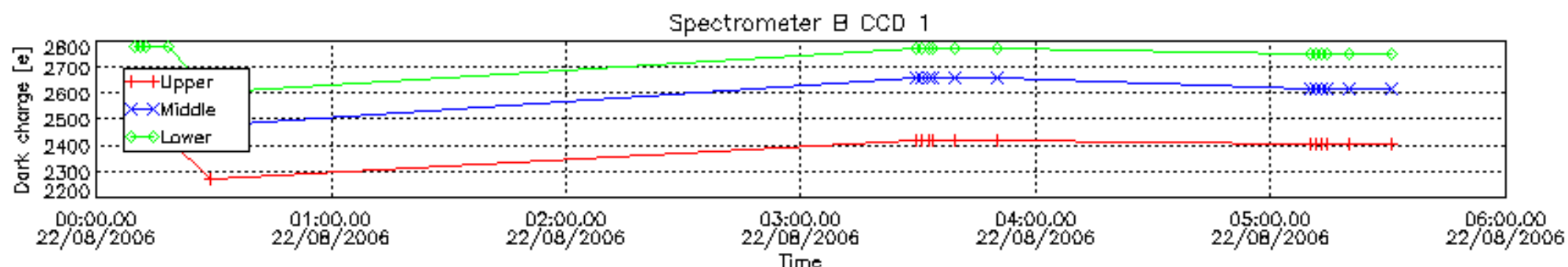
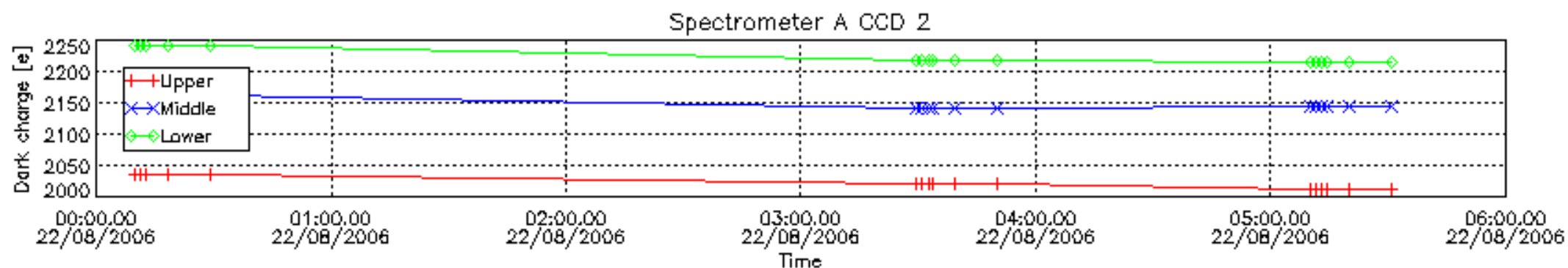
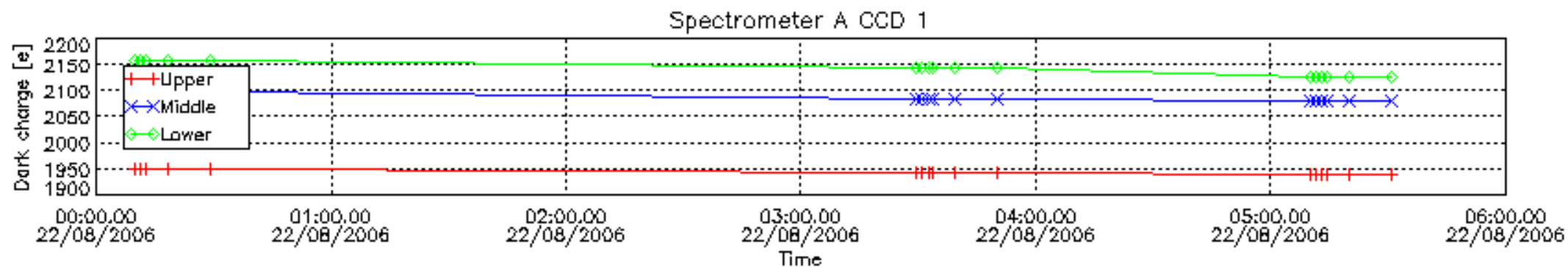


### 8. Auxiliary Data Files used for the production reported in section 2.2

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	22-AUG-2006 00:09:49
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060817_094138_20060816_000000_20100101_000000	1	22-AUG-2006 00:09:49
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	22-AUG-2006 00:09:49
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	22-AUG-2006 00:09:49
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	22-AUG-2006 00:09:49
ECMWF_FILE	AUX_ECA_AXNECM20060822_060911_20060821_210000_20060822_090000	1	22-AUG-2006 00:09:49
ECMWF_FILE	AUX_ECF_AXNECM20060821_062845_20060821_210000_20060822_090000	2	22-AUG-2006 00:11:17
ECMWF_FILE	AUX_ECF_AXNECM20060821_182913_20060822_030000_20060822_150000	32	22-AUG-2006 04:58:08
OPTIONAL_ECMWF_FILE	MISSING	1	22-AUG-2006 00:09:49
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060822_000637_000054192050_00302_23402_0398.N1	1	22-AUG-2006 00:09:49
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060822_014216_000041442050_00303_23403_0399.N1	15	22-AUG-2006 03:17:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060822_043736_000057382050_00305_23405_0401.N1	32	22-AUG-2006 04:58:08

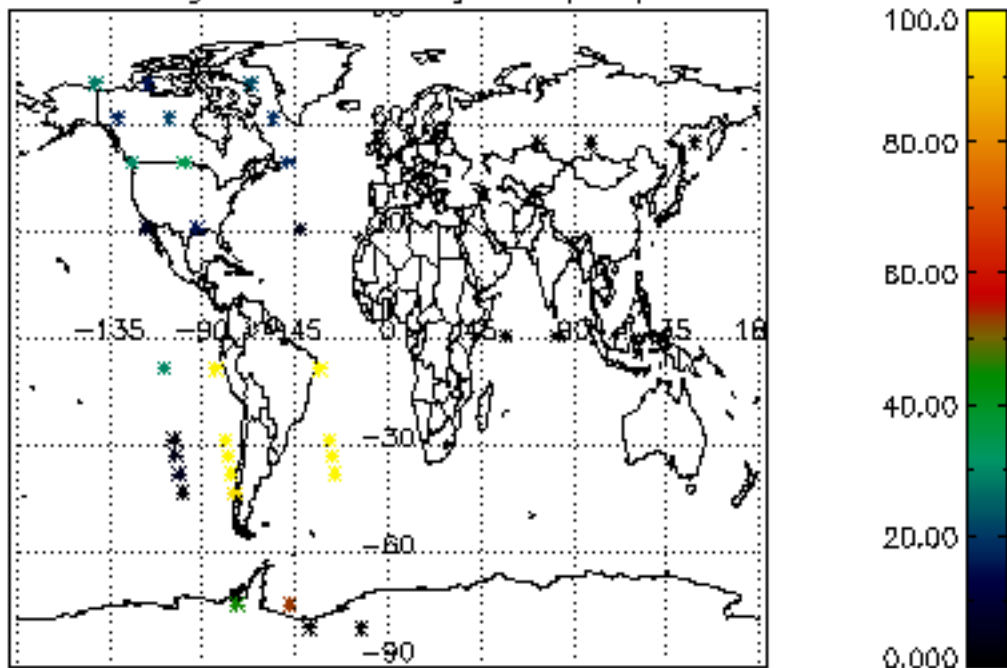




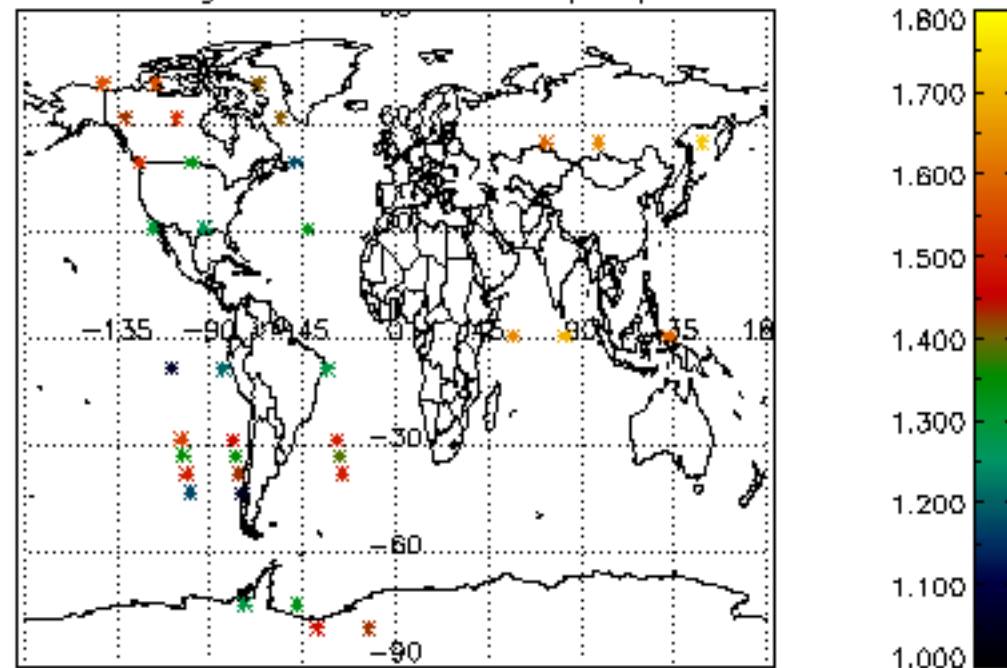




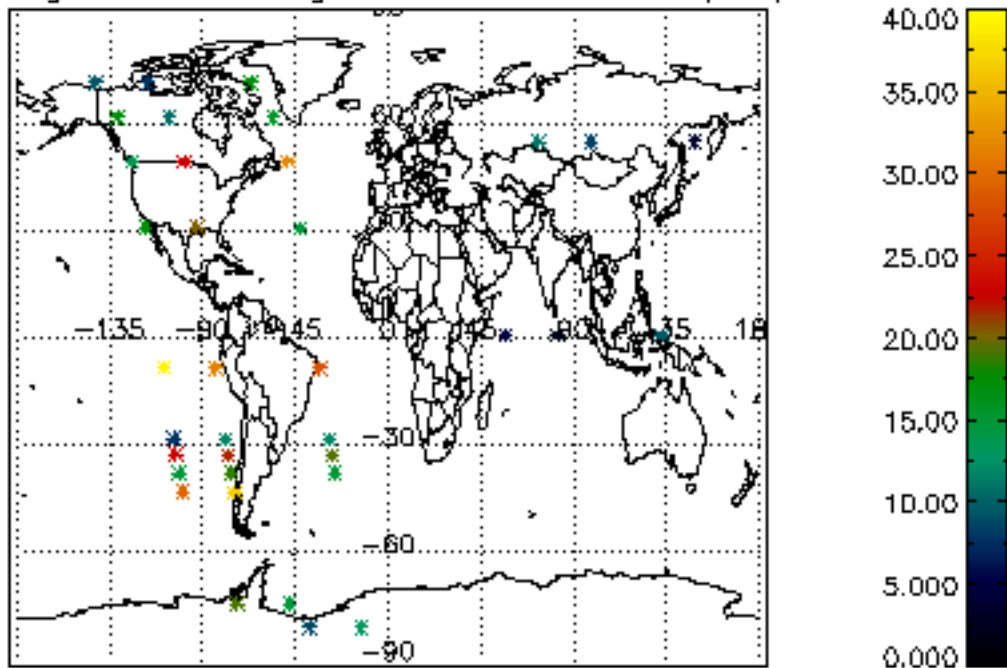
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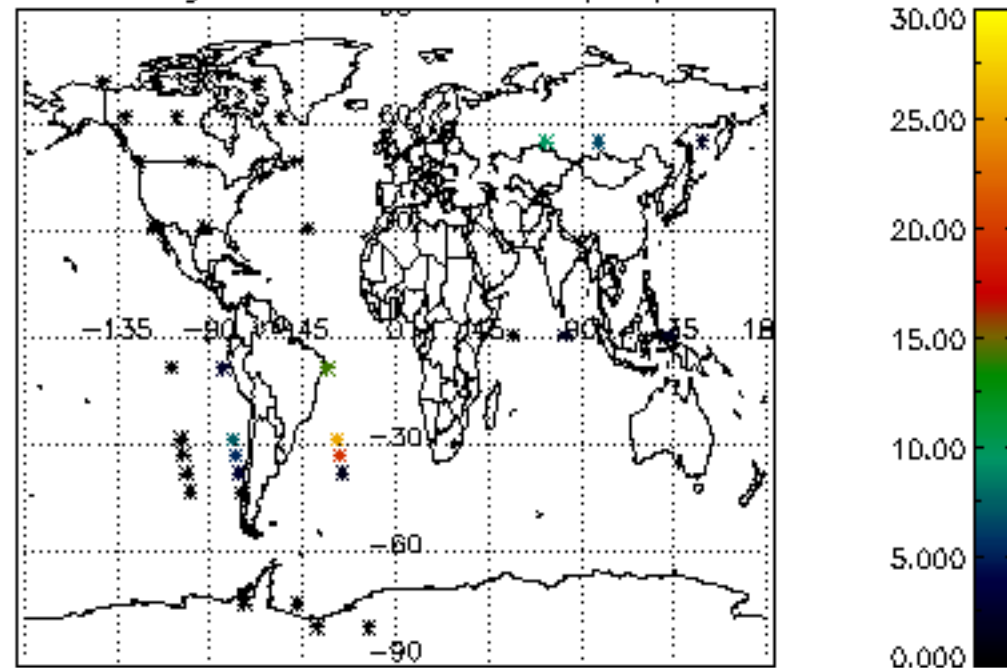
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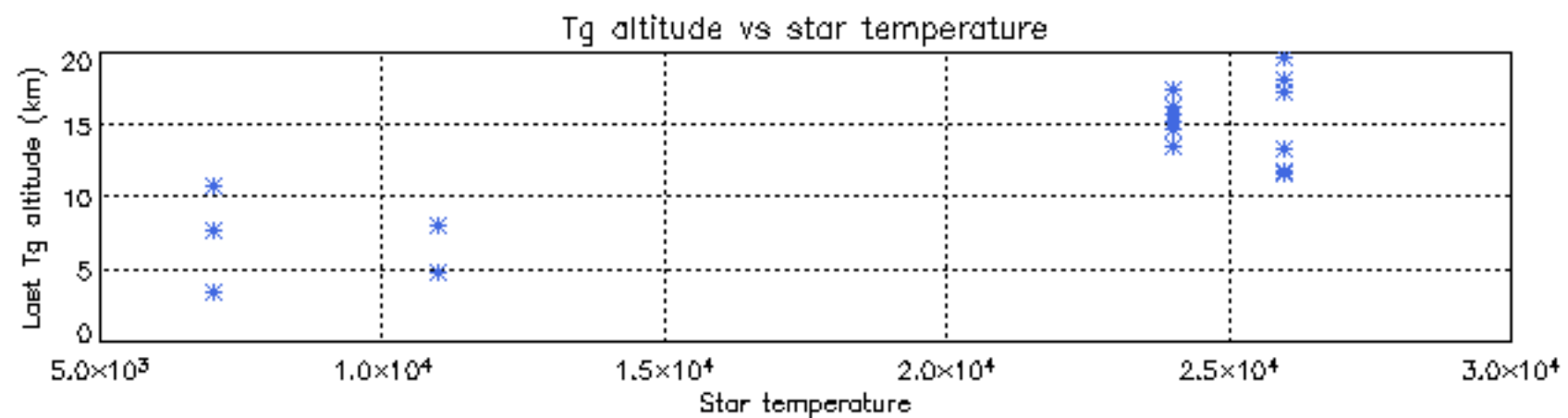
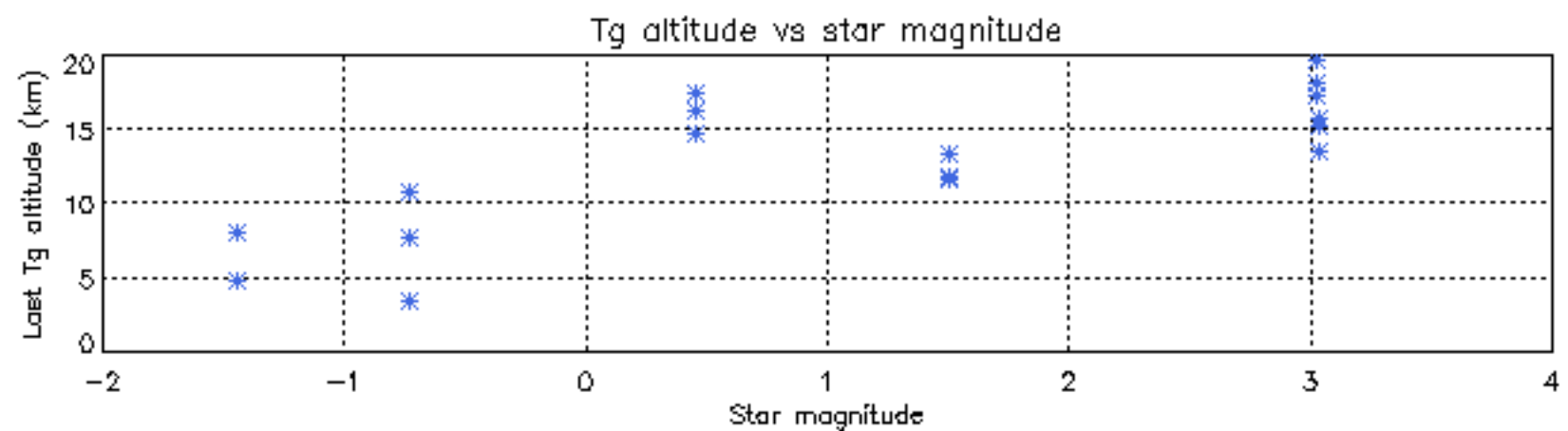
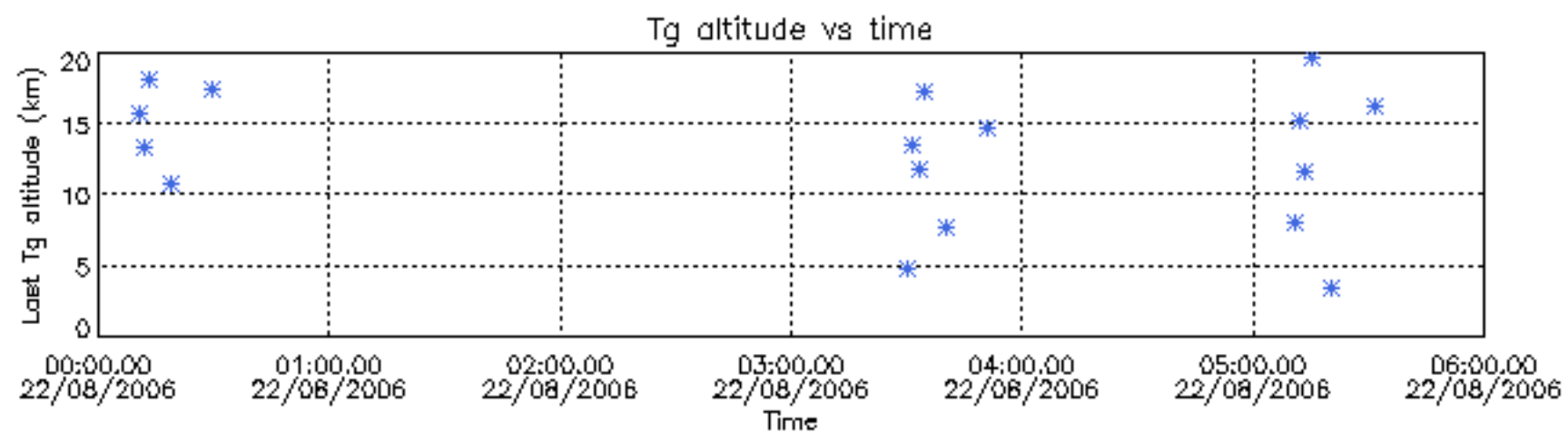
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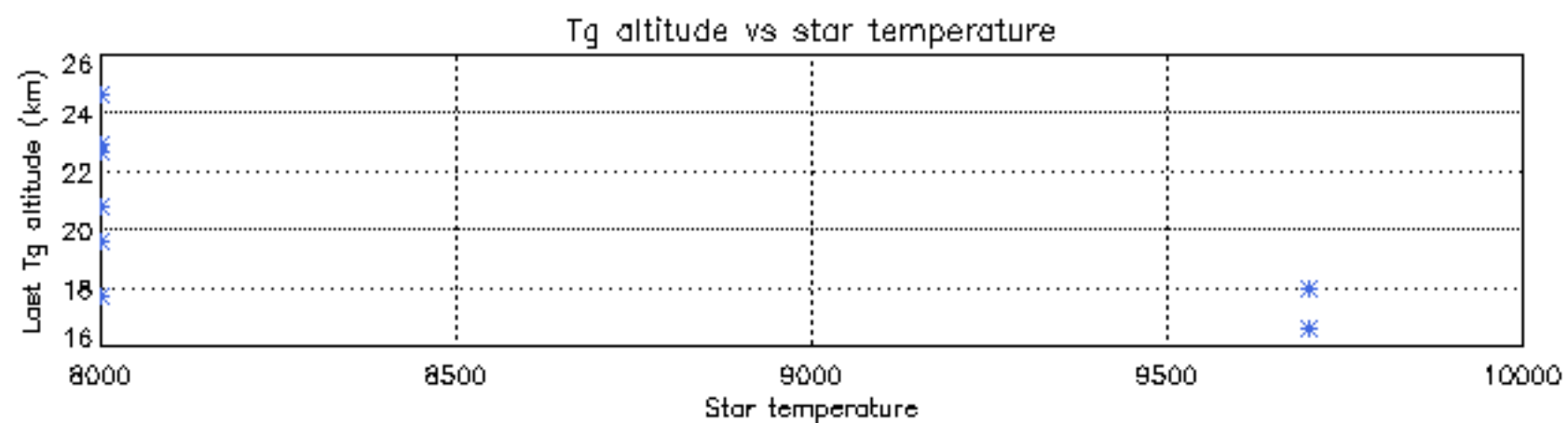
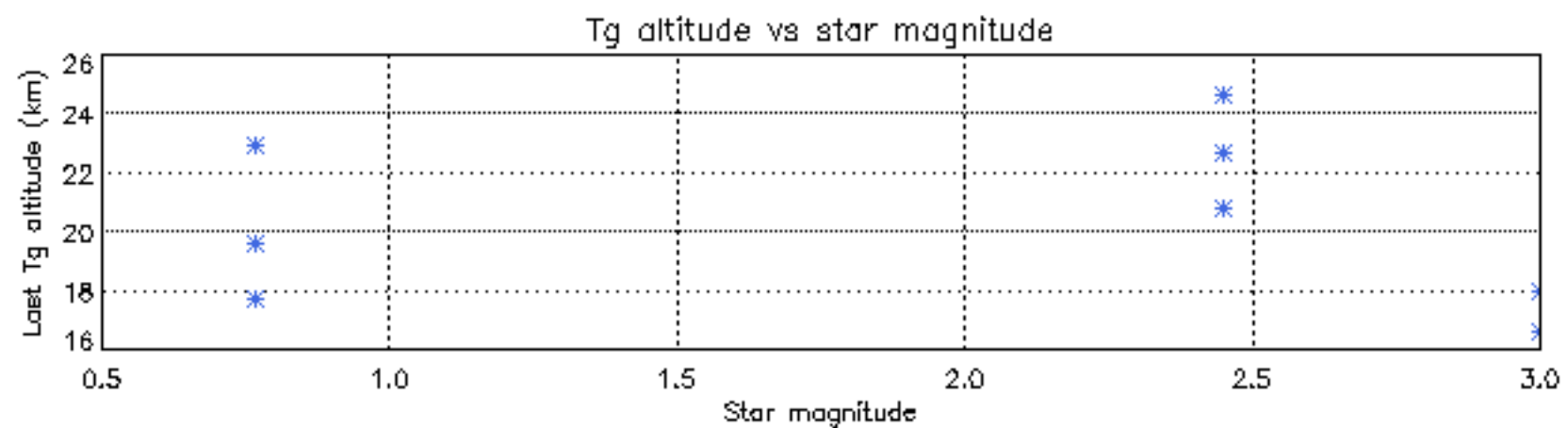
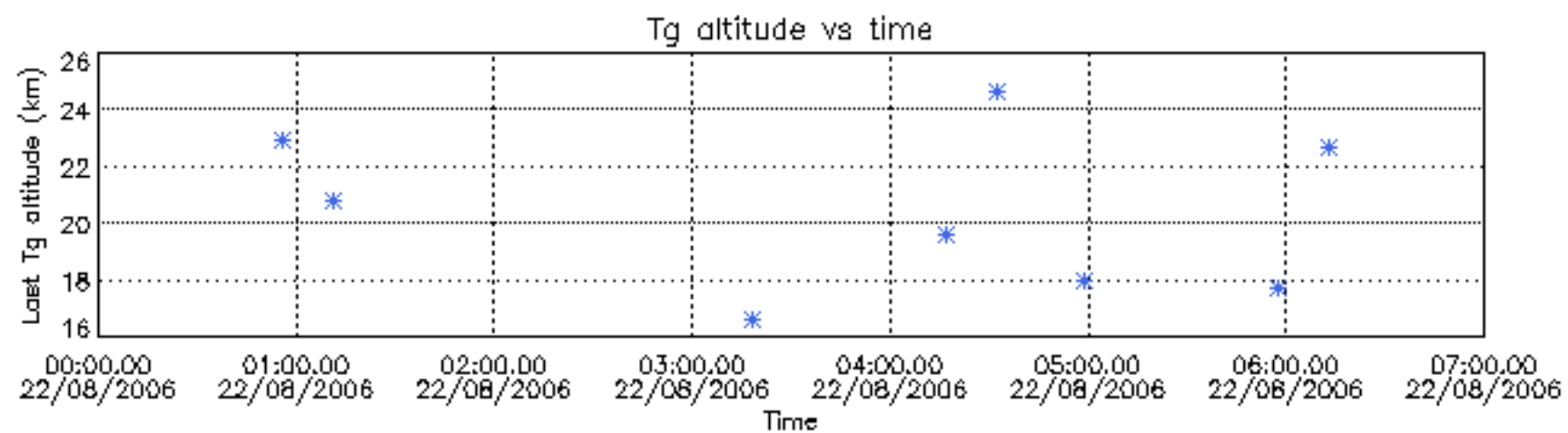
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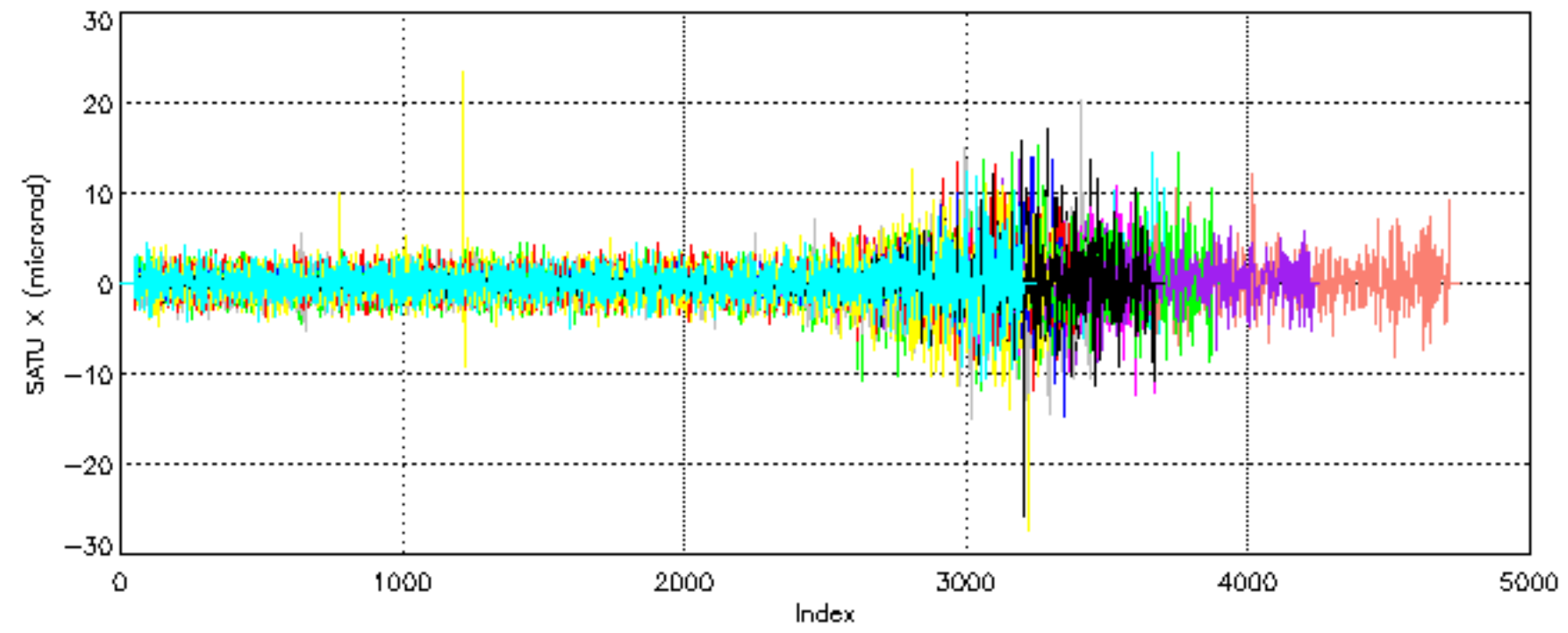
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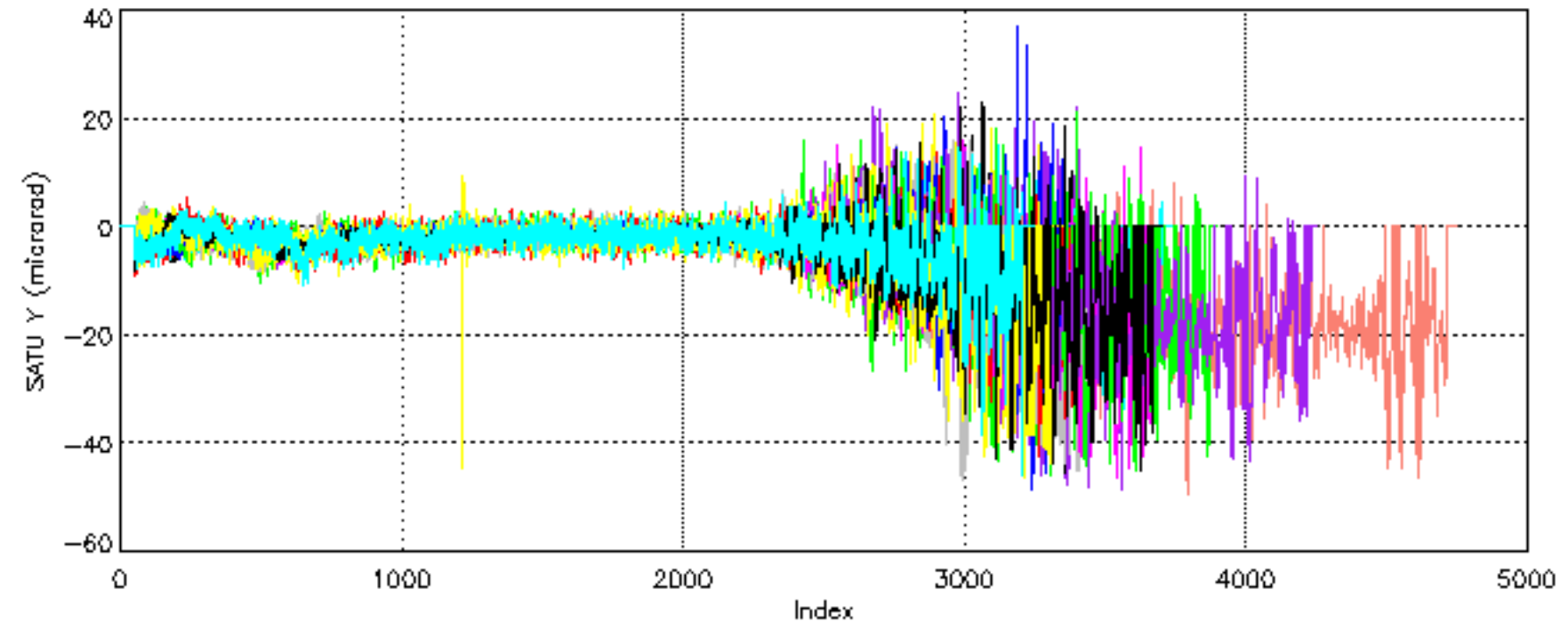


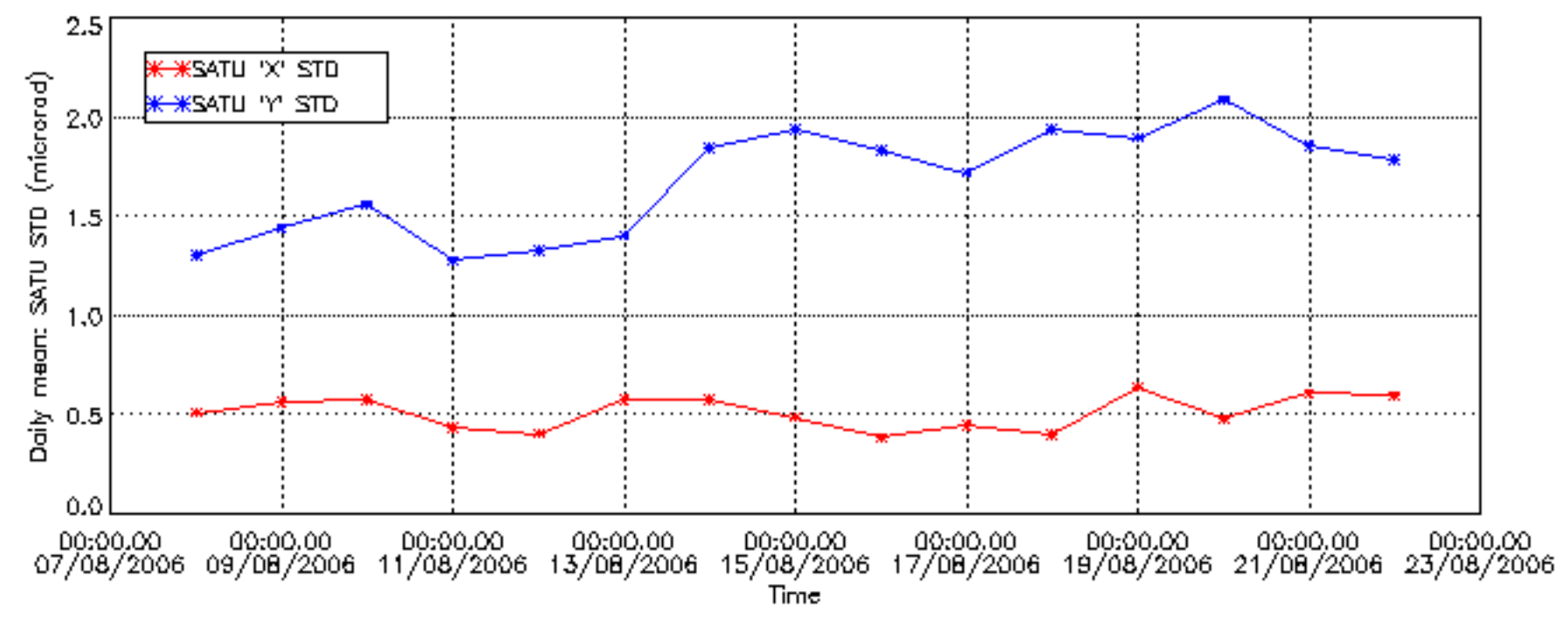
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 19; 451.5; 06-AUG-2006 17:16:54; Dark ; 30.5; 135; Bet Hyi ; 2.82; 5800;occ; 61; 0;23184  
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 9; 4361.2; 06-AUG-2006 18:22:04; Bright; 30.5; 107; 37The Aur ; 2.65; 11000;occ; 61; 0;23184  
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 20; 6793.4; 06-AUG-2006 19:02:36; Dark ; 33.0; 148; Alp Tuc ; 2.88; 4100;occ; 66; 0;23184

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9; 371.8; 07-AUG-2006 03:19:10; Dark ; 38.0; 9; Alp Eri ; 0.45; 24000;occ; 76; 0;23190  
10; 759.4; 07-AUG-2006 03:25:38; Dark ; 39.5; 148; Alp Tuc ; 2.88; 4100;occ; 79; 0;23190  
11; 966.9; 07-AUG-2006 03:29:05; Dark ; 40.0; 31; Alp Gru ; 1.73; 15200;occ; 80; 0;23190  
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 7;-1667.7; 11-AUG-2006 20:45:53; Bright; 32.5; 107; 37The Aur ; 2.65; 11000;occ; 65; 0;23257  
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 5;-443.3; 11-AUG-2006 21:06:18; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;23257  
 6; 418.6; 11-AUG-2006 21:20:40; Dark ; 40.5; 9; Alp Eri ; 0.45; 24000;occ; 81; 0;23258  
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 8; 996.5; 11-AUG-2006 21:30:17; Dark ; 39.5; 31; Alp Gru ; 1.73; 15200;occ; 79; 0;23258  
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 13; 4618.8; 12-AUG-2006 00:11:16; Dark ; 39.0; 151; 13Mu Gem ; 2.89; 3000;occ; 78; 0;23259  
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 17; 1033.3; 18-AUG-2006 16:08:58; Dark ; 33.5; 31; Alp Gru ; 1.73; 15200;occ; 67; 0;23355

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 19; 1033.3; 18-AUG-2006 17:49:35; Dark ; 39.5; 31; Alp Gru ; 1.73; 15200;occ; 79; 0;23356

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 18; 818.3; 18-AUG-2006 19:26:36; Dark ; 40.0; 148; Alp Tuc ; 2.88; 4100;occ; 80; 0;23357

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 18; 487.4; 18-AUG-2006 21:01:40; Dark ; 39.0; 9; Alp Eri ; 0.45; 24000;occ; 78; 0;23358  
 19; 819.0; 18-AUG-2006 21:07:12; Dark ; 31.5; 148; Alp Tuc ; 2.88; 4100;occ; 63; 0;23358

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 9; 1211.7; 19-AUG-2006 00:34:56; Dark ; 35.5; 172; Gam Gru ; 3.00; 13100;occ; 71; 0;23360  
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 13; 2682.2; 19-AUG-2006 00:59:27; Bright; 29.5; 144; 18Del Cyg ; 2.86; 11000;occ; 59; 0;23360  
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 13; 2600.4; 19-AUG-2006 02:38:41; Bright; 29.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 58; 0;23361  
 14; 2682.4; 19-AUG-2006 02:40:03; Bright; 28.0; 144; 18Del Cyg ; 2.86; 11000;occ; 56; 0;23361  
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17; 1046.7; 21-AUG-2006 11:13:08; Dark ; 35.0; 31; Alp Gru ; 1.73; 15200;occ; 70; 0;23395
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14; 5370.6; 31-AUG-2006 18:53:12; Dark ; 55.5; 1; 9Alp CMa ; -1.44; 11000;occ; 111; 0;23542
15; 5536.7; 31-AUG-2006 18:55:58; Dark ; 43.0; 23; 21Eps CMa ; 1.50; 26000;occ; 86; 0;23542
16; 5632.5; 31-AUG-2006 18:57:34; Dark ; 41.5; 117; Pi Pup ; 2.71; 3800;occ; 83; 0;23542
17; 5756.3; 31-AUG-2006 18:59:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;23542
18; 5942.2; 31-AUG-2006 19:02:44; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;23542
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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1; 1084.0; 31-AUG-2006 19:22:21; Dark ; 38.0; 31; Alp Gru ; 1.73; 15200;occ; 76; 1;23543
2; 1328.1; 31-AUG-2006 19:26:25; Dark ; 45.0; 18; 24Alp PsA ; 1.17; 9700;occ; 90; 0;23543
3; 1618.8; 31-AUG-2006 19:31:16; Dark ; 51.5; 142; 49Del Cap ; 2.85; 8900;occ; 103; 0;23543
4; 1807.2; 31-AUG-2006 19:34:25; Bright; 38.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 77; 0;23543
5; 1896.0; 31-AUG-2006 19:35:53; Bright; 40.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 81; 0;23543
6; 2076.1; 31-AUG-2006 19:38:53; Bright; 37.5; 61; 8Eps Peg ; 2.10; 3900;occ; 75; 0;23543
7; 2487.9; 31-AUG-2006 19:45:45; Bright; 34.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 68; 0;23543
8; 2600.2; 31-AUG-2006 19:47:38; Bright; 36.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 72; 0;23543
9; 2678.4; 31-AUG-2006 19:48:56; Bright; 38.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 76; 0;23543

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10;	2976.5;	31-AUG-2006	19:53:54;	Bright;	37.0;	89;	5Alp	Cep	;	2.45;	8000;occ;	74;	0;	23543
11;	3435.1;	31-AUG-2006	20:01:32;	Bright;	35.5;	49;	1Alp	UMi	;	1.99;	6300;occ;	71;	0;	23543
12;	4452.2;	31-AUG-2006	20:18:29;	Bright;	35.5;	24;	66Alp	Gem	;	1.58;	10200;occ;	71;	0;	23543
13;	4913.7;	31-AUG-2006	20:26:11;	Dark	;	8;	10Alp	CMi	;	0.40;	6500;occ;	96;	0;	23543
14;	5371.1;	31-AUG-2006	20:33:48;	Dark	;	1;	9Alp	CMa	;	-1.44;	11000;occ;	100;	0;	23543
15;	5537.1;	31-AUG-2006	20:36:34;	Dark	;	23;	21Eps	CMa	;	1.50;	26000;occ;	84;	0;	23543
16;	5632.7;	31-AUG-2006	20:38:10;	Dark	;	117;	Pi	Pup	;	2.71;	3800;occ;	86;	0;	23543
17;	5756.6;	31-AUG-2006	20:40:14;	Dark	;	0;			;	0.00;	0;occ;	119;	0;	23543
18;	5942.6;	31-AUG-2006	20:43:20;	Dark	;	2;	Alp	Car	;	-0.74;	7000;occ;	105;	0;	23543
19;	6561.1;	31-AUG-2006	20:53:38;	Dark	;	143;	Alp	Hyi	;	2.86;	7200;occ;	80;	0;	23543
20;	6637.6;	31-AUG-2006	20:54:55;	Dark	;	9;	Alp	Eri	;	0.45;	24000;occ;	101;	0;	23543