

# GOMOS Daily Report 23-SEP-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	25SEP2006 07:35:56
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START)-1D (23SEP2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP)-1D (24SEP2006 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	1

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

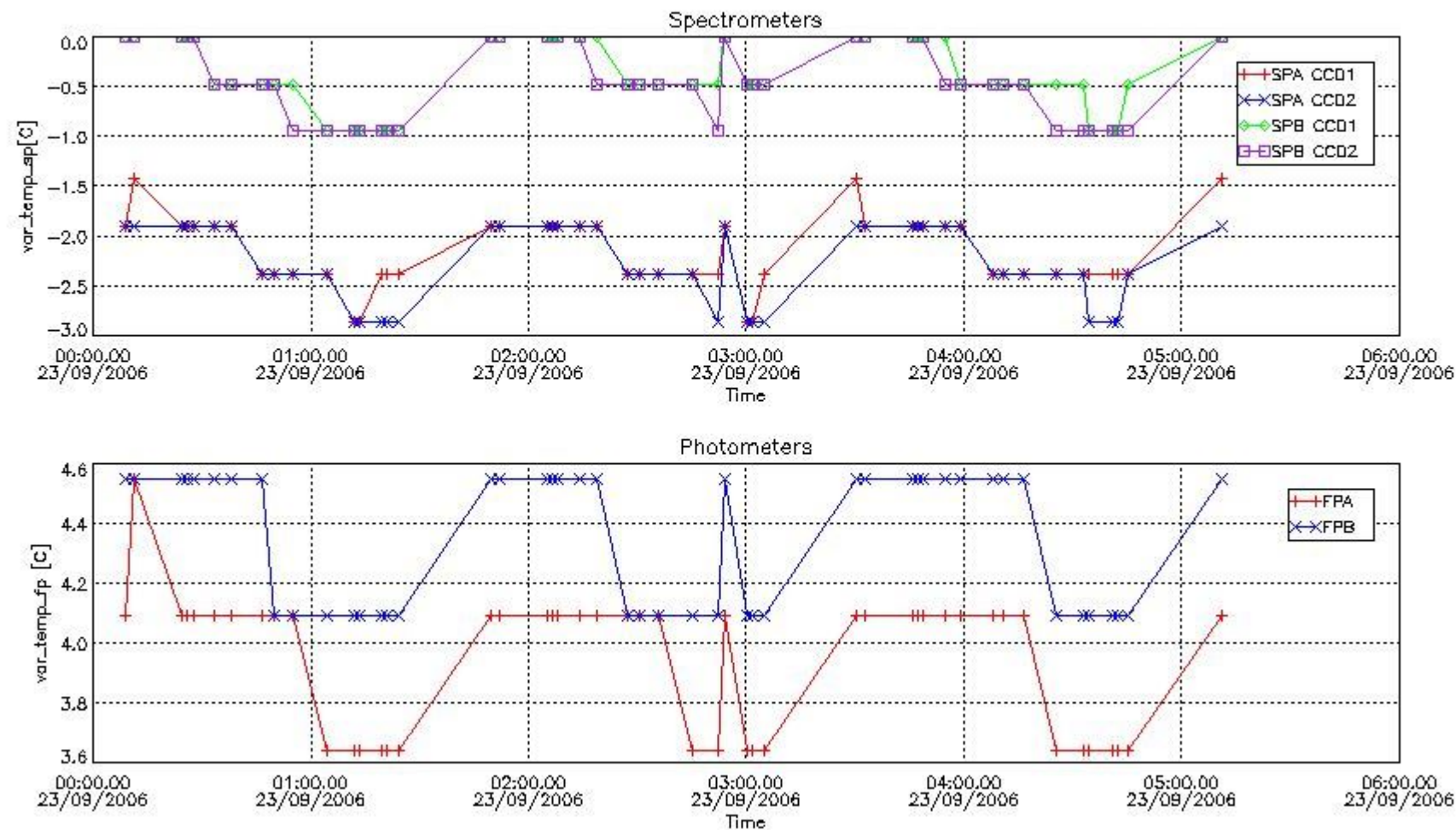
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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_1PNPDE20060923_000910_000000442051_00259_23860_1385.N1	23-SEP-2006 00:09:10	Dark	43.500	65	Lam Vel	2.2040	4400.0	87	23860	No
2	GOM_TRA_1PNPDE20060923_001124_000000382051_00259_23860_1386.N1	23-SEP-2006 00:11:24	Dark	38.000	34	Gam2Vel	1.7930	23000.	76	23860	No
3	GOM_TRA_1PNPDE20060923_002429_000000372051_00260_23861_1387.N1	23-SEP-2006 00:24:29	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	23861	No
4	GOM_TRA_1PNPDE20060923_002605_000000392051_00260_23861_1388.N1	23-SEP-2006 00:26:05	Dark	38.500	143	Alp Hyi	2.8570	7200.0	77	23861	No
5	GOM_TRA_1PNPDE20060923_002732_000000462051_00260_23861_1389.N1	23-SEP-2006 00:27:32	Dark	46.000	9	Alp Eri	0.45300	24000.	92	23861	No
6	GOM_TRA_1PNPDE20060923_003327_000000422051_00260_23861_1390.N1	23-SEP-2006 00:33:27	Straylight	42.000	63	Bet Gru	2.1500	2800.0	84	23861	No
7	GOM_TRA_1PNPDE20060923_003802_000000422051_00260_23861_1391.N1	23-SEP-2006 00:38:02	Straylight	41.500	18	24Alp PsA	1.1660	9700.0	83	23861	No
8	GOM_TRA_1PNPDE20060923_004641_000000362051_00260_23861_1392.N1	23-SEP-2006 00:46:41	Bright	36.000	162	34Alp Aqr	2.9440	5350.0	72	23861	No
9	GOM_TRA_1PNPDE20060923_004945_000000392051_00260_23861_1393.N1	23-SEP-2006 00:49:45	Bright	38.500	61	8Eps Peg	2.1000	3900.0	77	23861	No
10	GOM_TRA_1PNPDE20060923_005505_000000362051_00260_23861_1394.N1	23-SEP-2006 00:55:05	Bright	36.000	164	44Eta Peg	2.9480	5400.0	72	23861	No
11	GOM_TRA_1PNPDE20060923_010423_000000362051_00260_23861_1395.N1	23-SEP-2006 01:04:23	Bright	35.500	89	5Alp Cep	2.4510	8000.0	71	23861	No
12	GOM_TRA_1PNPDE20060923_011152_000000362051_00260_23861_1396.N1	23-SEP-2006 01:11:52	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	23861	No
13	GOM_TRA_1PNPDE20060923_011320_000000372051_00260_23861_1397.N1	23-SEP-2006 01:13:20	Bright	36.500	60	7Bet UMi	2.0810	3950.0	73	23861	No
14	GOM_TRA_1PNPDE20060923_011931_000000382051_00260_23861_1398.N1	23-SEP-2006 01:19:31	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	23861	No
15	GOM_TRA_1PNPDE20060923_012059_000000362051_00260_23861_1399.N1	23-SEP-2006 01:20:59	Bright	35.500	82	48Bet UMa	2.3650	10600.	71	23861	No
16	GOM_TRA_1PNPDE20060923_012407_000000352051_00260_23861_1400.N1	23-SEP-2006 01:24:07	Bright	35.000	174	52Psi UMa	3.0040	4400.0	70	23861	No
17	GOM_TRA_1PNPDE20060923_014946_000000432051_00260_23861_1387.N1	23-SEP-2006 01:49:46	Dark	42.500	65	Lam Vel	2.2040	4400.0	85	23861	No
18	GOM_TRA_1PNPDE20060923_015201_000000412051_00260_23861_1388.N1	23-SEP-2006 01:52:01	Dark	40.500	34	Gam2Vel	1.7930	23000.	81	23861	No
19	GOM_TRA_1PNPDE20060923_020505_000000372051_00261_23862_1389.N1	23-SEP-2006 02:05:05	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	23862	No
20	GOM_TRA_1PNPDE20060923_020641_000000392051_00261_23862_1390.N1	23-SEP-2006 02:06:41	Dark	39.000	143	Alp Hyi	2.8570	7200.0	78	23862	No
21	GOM_TRA_1PNPDE20060923_020809_000000432051_00261_23862_1391.N1	23-SEP-2006 02:08:09	Dark	43.000	9	Alp Eri	0.45300	24000.	86	23862	No
22	GOM_TRA_1PNPDE20060923_021403_000000432051_00261_23862_1392.N1	23-SEP-2006 02:14:03	Straylight	42.500	63	Bet Gru	2.1500	2800.0	85	23862	No
23	GOM_TRA_1PNPDE20060923_021838_000000432051_00261_23862_1393.N1	23-SEP-2006 02:18:38	Straylight	43.000	18	24Alp PsA	1.1660	9700.0	86	23862	No
24	GOM_TRA_1PNPDE20060923_022717_000000362051_00261_23862_1394.N1	23-SEP-2006 02:27:17	Bright	36.000	162	34Alp Aqr	2.9440	5350.0	72	23862	No
25	GOM_TRA_1PNPDE20060923_023021_000000382051_00261_23862_1395.N1	23-SEP-2006 02:30:21	Bright	37.500	61	8Eps Peg	2.1000	3900.0	75	23862	No
26	GOM_TRA_1PNPDE20060923_023541_000000382051_00261_23862_1396.N1	23-SEP-2006 02:35:41	Bright	37.500	164	44Eta Peg	2.9480	5400.0	75	23862	No
27	GOM_TRA_1PNPDE20060923_024459_000000342051_00261_23862_1397.N1	23-SEP-2006 02:44:59	Bright	33.500	89	5Alp Cep	2.4510	8000.0	67	23862	No
28	GOM_TRA_1PNPDE20060923_025228_000000332051_00261_23862_1398.N1	23-SEP-2006 02:52:28	Bright	33.000	49	1Alp UMi	1.9900	6300.0	66	23862	No
29	GOM_TRA_1PNPDE20060923_025356_000000442051_00261_23862_1386.N1	23-SEP-2006 02:53:56	Bright	44.000	60	7Bet UMi	2.0810	3950.0	88	23862	Yes
30	GOM_TRA_1PNPDE20060923_030007_000000362051_00261_23862_1387.N1	23-SEP-2006 03:00:07	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	23862	No
31	GOM_TRA_1PNPDE20060923_030135_000000362051_00261_23862_1388.N1	23-SEP-2006 03:01:35	Bright	35.500	82	48Bet UMa	2.3650	10600.	71	23862	No
32	GOM_TRA_1PNPDE20060923_030444_000000332051_00261_23862_1389.N1	23-SEP-2006 03:04:44	Bright	33.000	174	52Psi UMa	3.0040	4400.0	66	23862	No
33	GOM_TRA_1PNPDE20060923_033022_000000422051_00261_23862_1390.N1	23-SEP-2006 03:30:22	Dark	41.500	65	Lam Vel	2.2040	4400.0	83	23862	No
34	GOM_TRA_1PNPDE20060923_033237_000000432051_00261_23862_1391.N1	23-SEP-2006 03:32:37	Dark	42.500	34	Gam2Vel	1.7930	23000.	85	23862	No
35	GOM_TRA_1PNPDE20060923_034542_000000372051_00262_23863_1392.N1	23-SEP-2006 03:45:42	Dark	36.500	135	Bet Hyi	2.8200	5800.0	73	23863	No
36	GOM_TRA_1PNPDE20060923_034718_000000382051_00262_23863_1393.N1	23-SEP-2006 03:47:18	Dark	38.000	143	Alp Hyi	2.8570	7200.0	76	23863	No
37	GOM_TRA_1PNPDE20060923_034845_000000412051_00262_23863_1394.N1	23-SEP-2006 03:48:45	Dark	41.000	9	Alp Eri	0.45300	24000.	82	23863	No
38	GOM_TRA_1PNPDE20060923_035439_000000462051_00262_23863_1395.N1	23-SEP-2006 03:54:39	Straylight	46.000	63	Bet Gru	2.1500	2800.0	92	23863	No
39	GOM_TRA_1PNPDE20060923_035914_000000452051_00262_23863_1396.N1	23-SEP-2006 03:59:14	Straylight	44.500	18	24Alp PsA	1.1660	9700.0	89	23863	No
40	GOM_TRA_1PNPDE20060923_040754_000000372051_00262_23863_1397.N1	23-SEP-2006 04:07:54	Bright	37.000	162	34Alp Aqr	2.9440	5350.0	74	23863	No
41	GOM_TRA_1PNPDE20060923_041057_000000382051_00262_23863_1398.N1	23-SEP-2006 04:10:57	Bright	37.500	61	8Eps Peg	2.1000	3900.0	75	23863	No
42	GOM_TRA_1PNPDE20060923_041617_000000372051_00262_23863_1399.N1	23-SEP-2006 04:16:17	Bright	37.000	164	44Eta Peg	2.9480	5400.0	74	23863	No

43	GOM_TRA_1PNPDE20060923_042535_000000322051_00262_23863_1400.N1	23-SEP-2006 04:25:35	Bright	32.000	89	5Alp Cep	2.4510	8000.0	64	23863	No
44	GOM_TRA_1PNPDE20060923_043304_000000372051_00262_23863_1401.N1	23-SEP-2006 04:33:04	Bright	37.000	49	1Alp UMi	1.9900	6300.0	74	23863	No
45	GOM_TRA_1PNPDE20060923_043432_000000392051_00262_23863_1402.N1	23-SEP-2006 04:34:32	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	23863	No
46	GOM_TRA_1PNPDE20060923_044043_000000382051_00262_23863_1391.N1	23-SEP-2006 04:40:43	Bright	37.500	36	50Alp UMa	1.8000	6300.0	75	23863	No
47	GOM_TRA_1PNPDE20060923_044212_000000352051_00262_23863_1392.N1	23-SEP-2006 04:42:12	Bright	34.500	82	48Bet UMa	2.3650	10600.	69	23863	No
48	GOM_TRA_1PNPDE20060923_044520_000000352051_00262_23863_1393.N1	23-SEP-2006 04:45:20	Bright	34.500	174	52Psi UMa	3.0040	4400.0	69	23863	No
49	GOM_TRA_1PNPDE20060923_051059_000000462051_00262_23863_1394.N1	23-SEP-2006 05:10:59	Dark	45.500	65	Lam Vel	2.2040	4400.0	91	23863	No

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



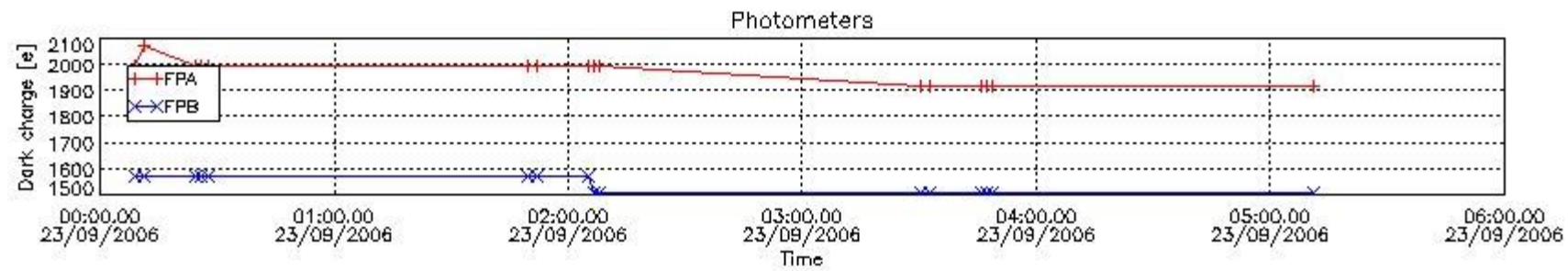
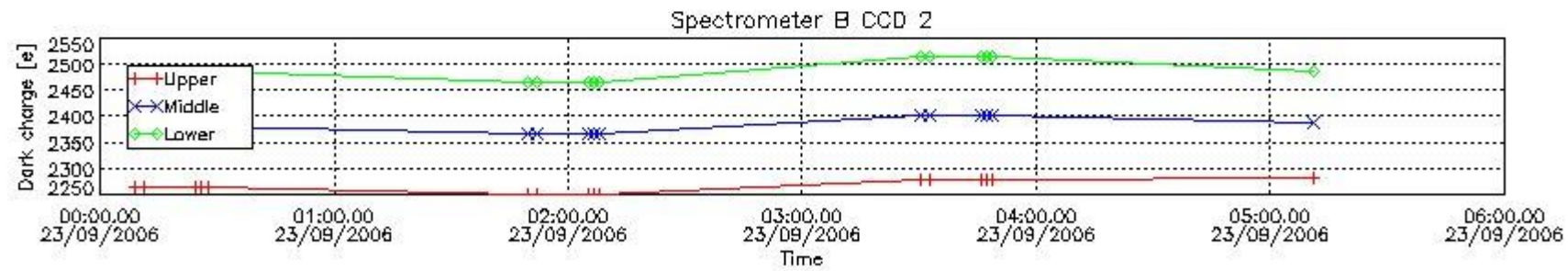
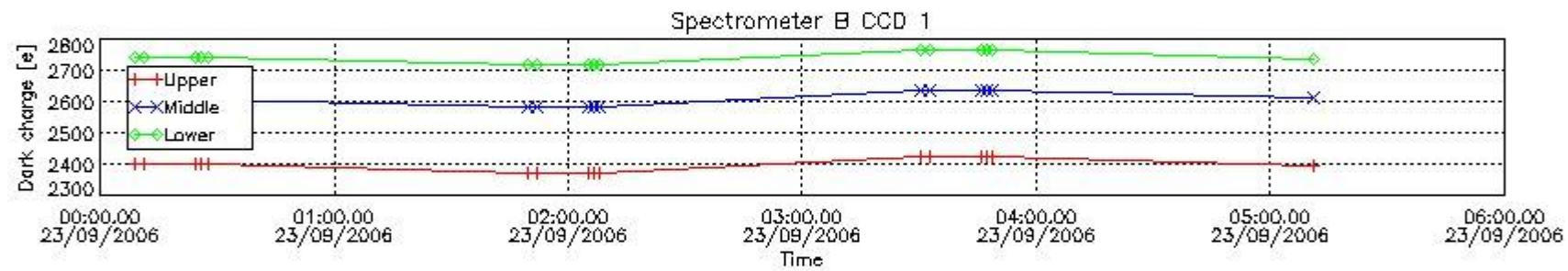
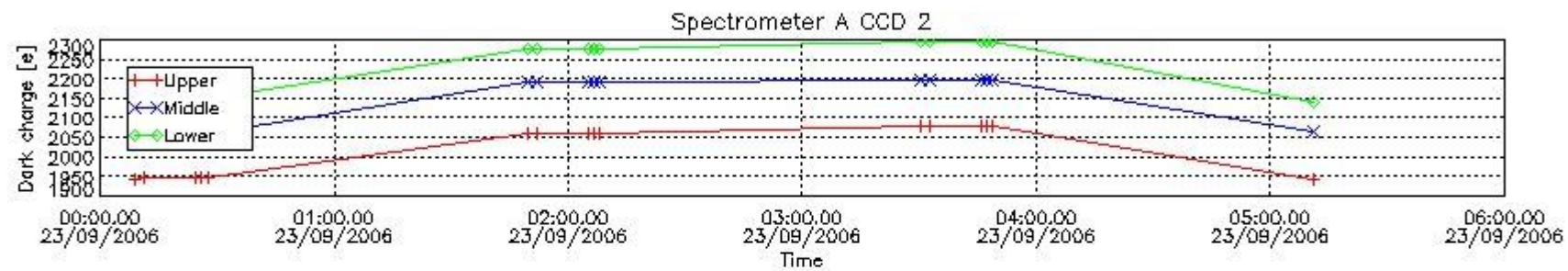
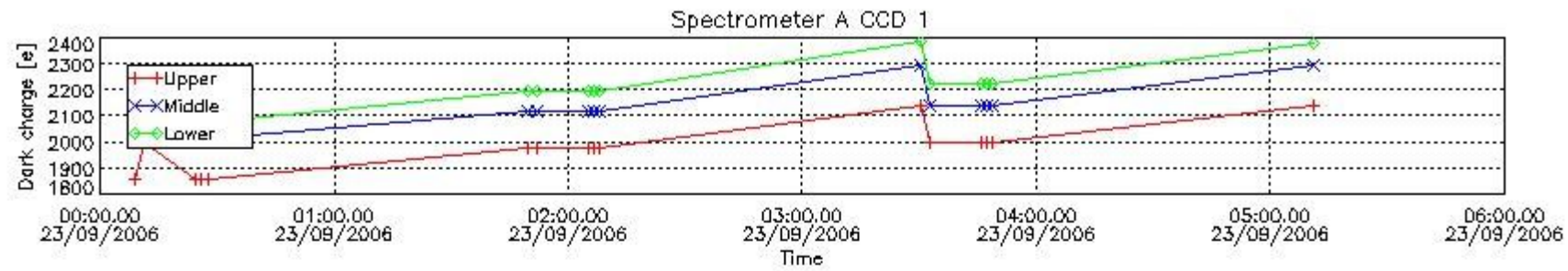
### 4. Overview of dark signal processing per product

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



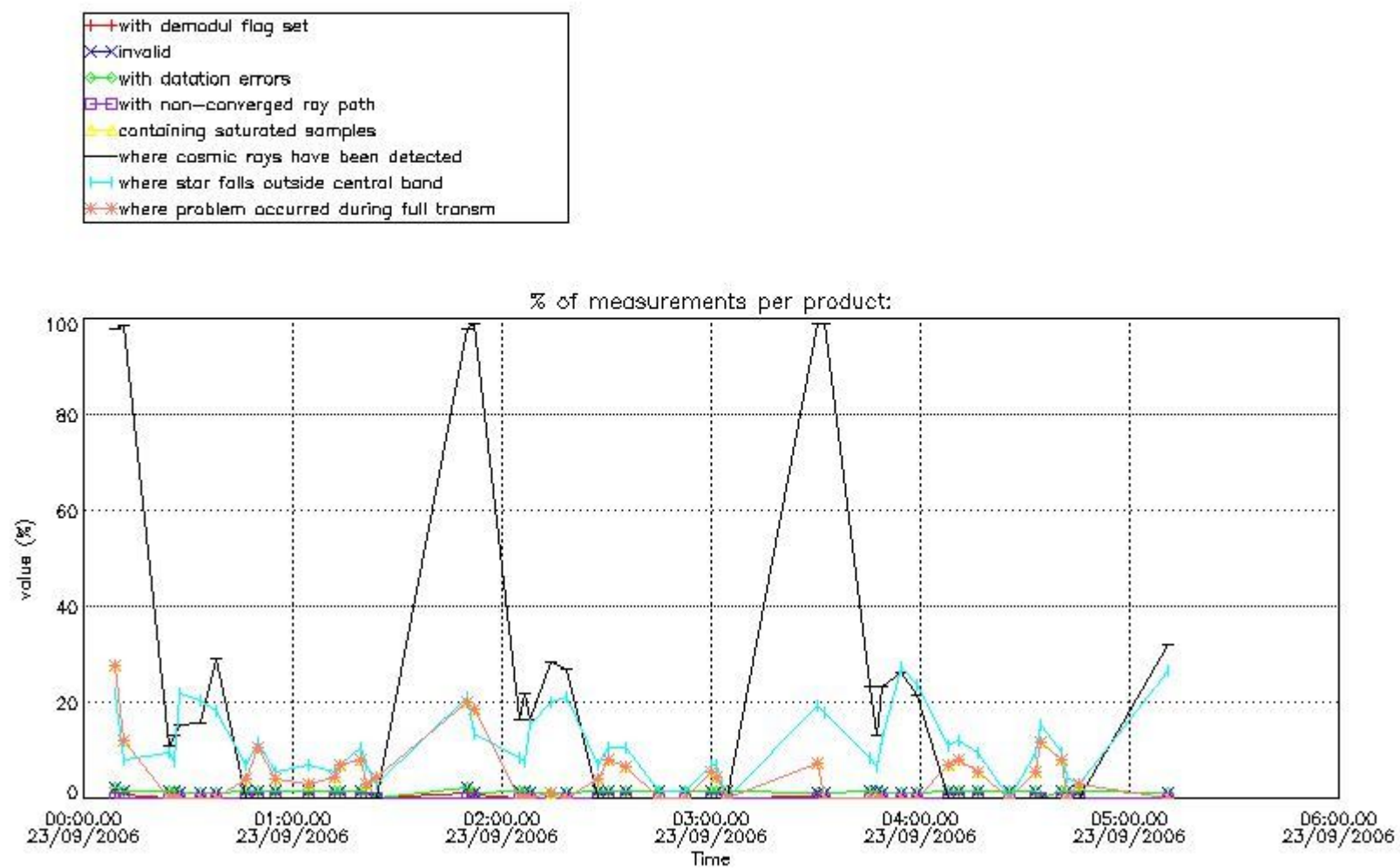
## 5. Demodulation flag and quality information monitoring

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.

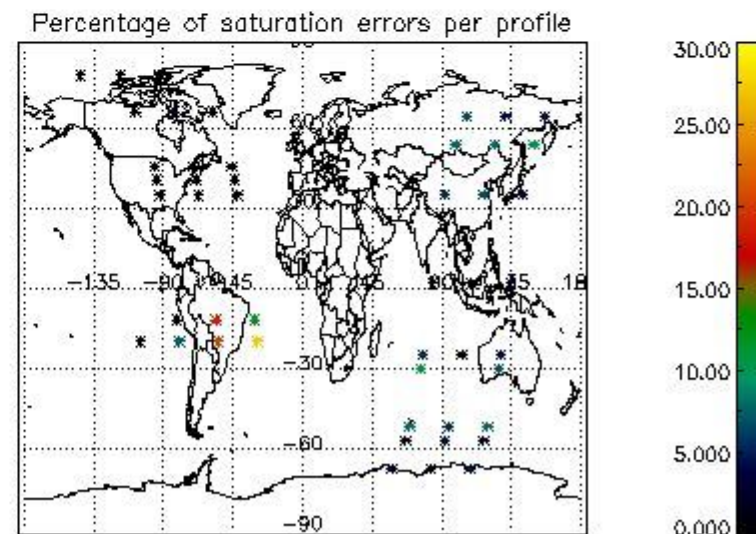
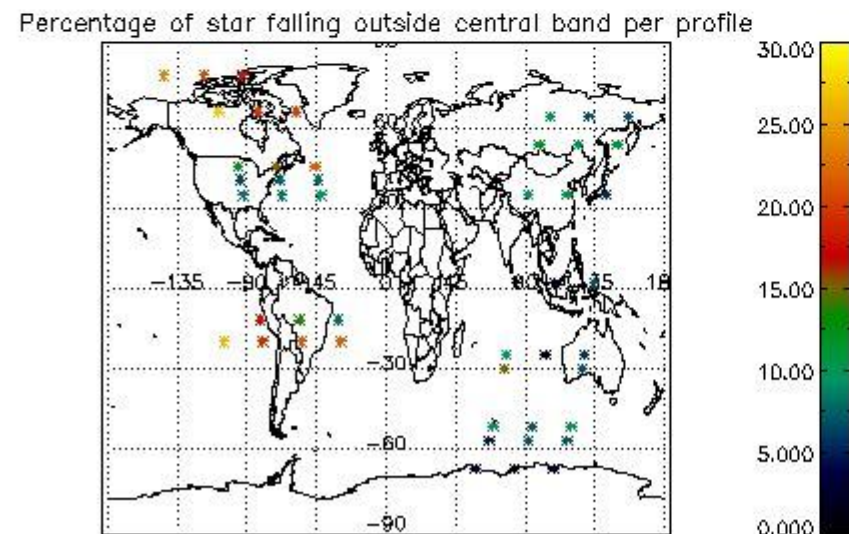
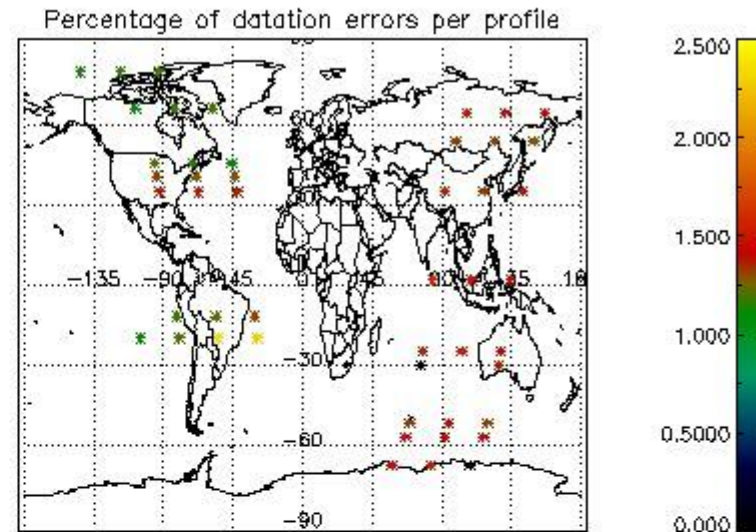
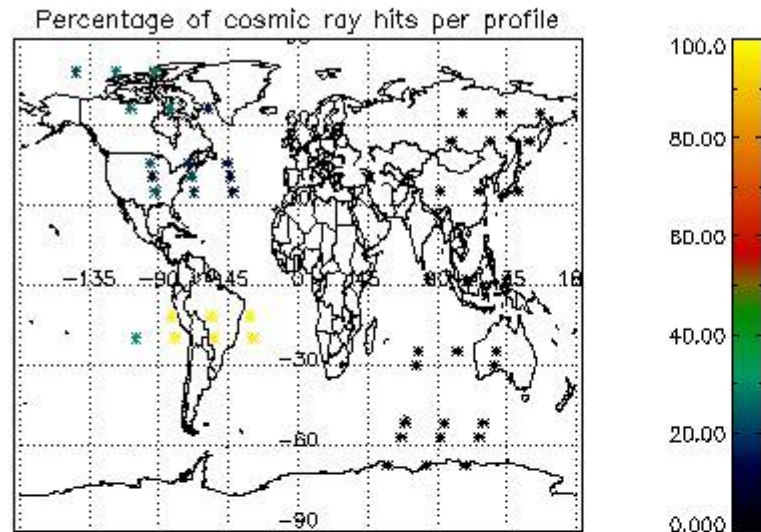
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	16.6667 %
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)



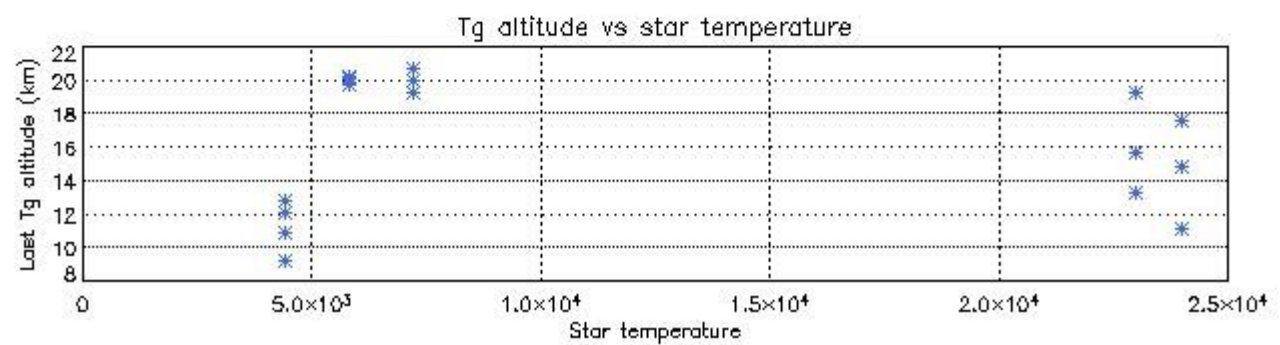
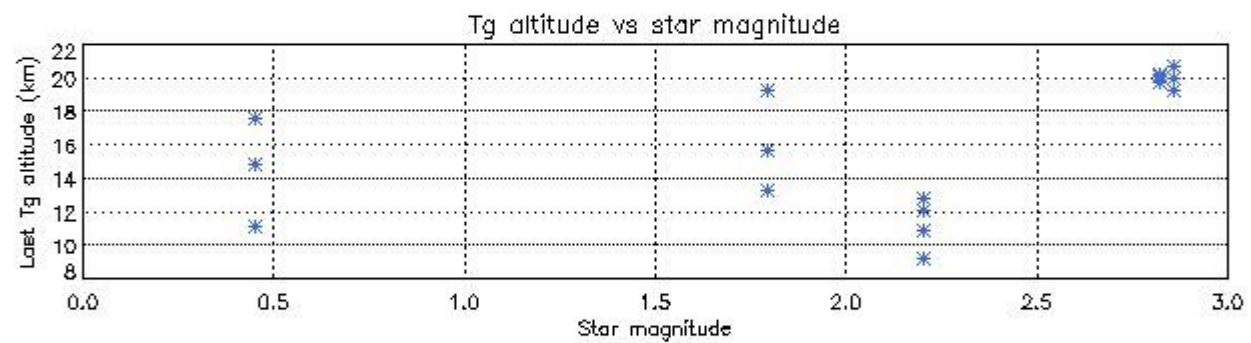
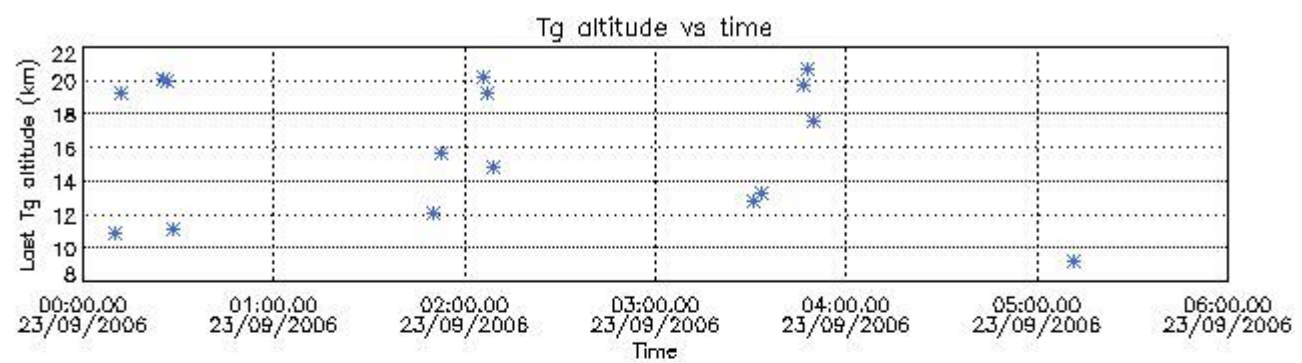
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.021	20.969	NaN
St. deviation:	4.0079	3.4049	NaN
Maximum:	20.646	28.889	NaN
Minimum:	9.1941	15.905	NaN
Number of data:	16.000	26.000	NaN

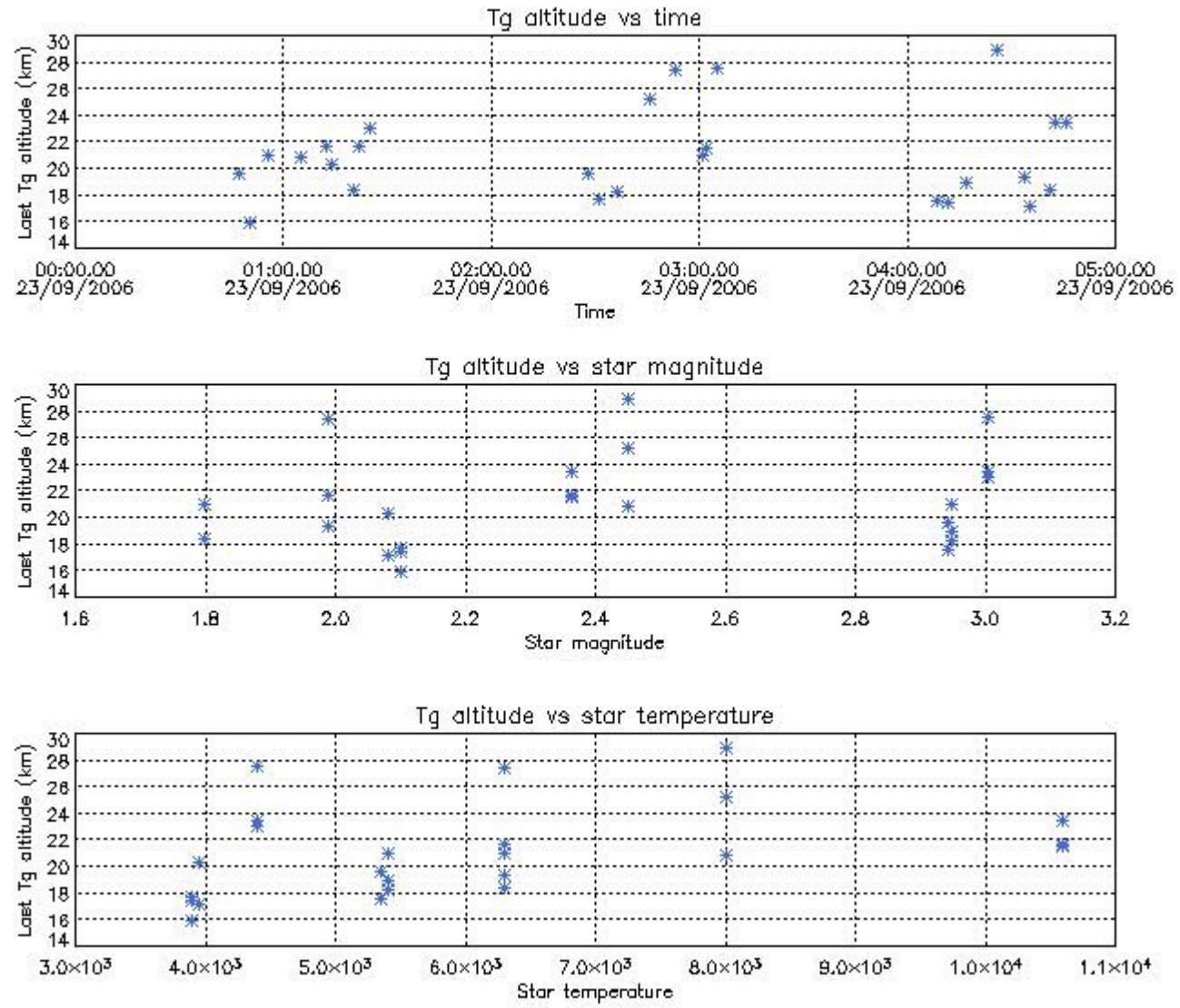
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



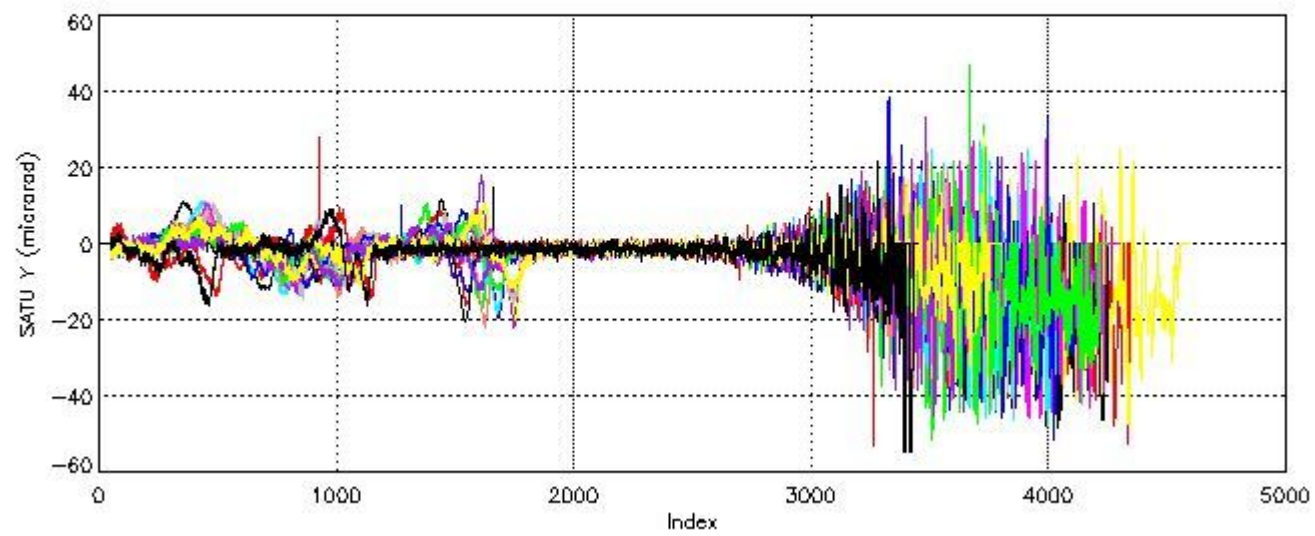
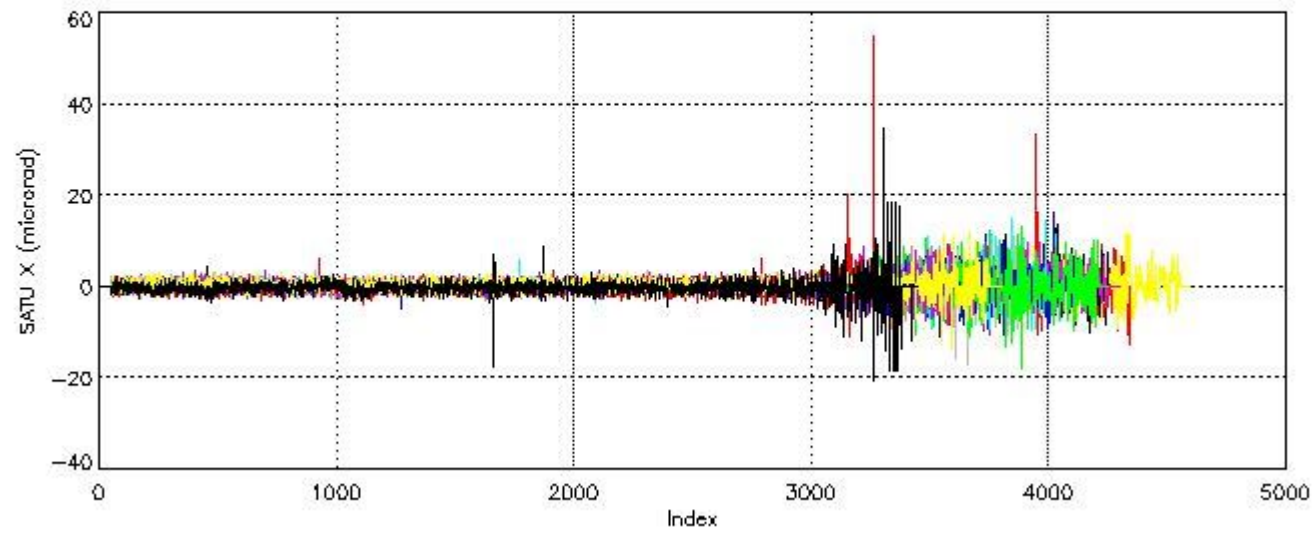
## 7. Star Acquisition and Tracking Unit (SATU)

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.

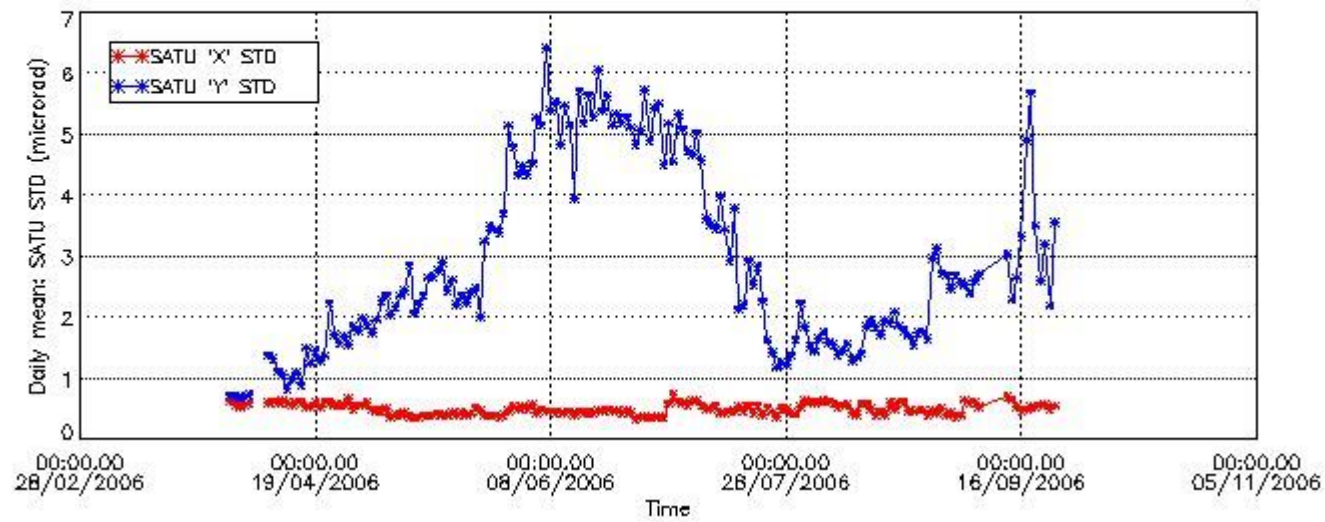
### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.12029	-0.60878	-0.12840	-1.3431
St. deviation:	0.54137	3.5488	0.72296	3.9592
Maximum:	4.3000	11.200	4.3000	9.8000
Minimum:	-0.90000	-8.2000	-3.5000	-16.300

Number of data:	14200.	14200.	21650.	21650.
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### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

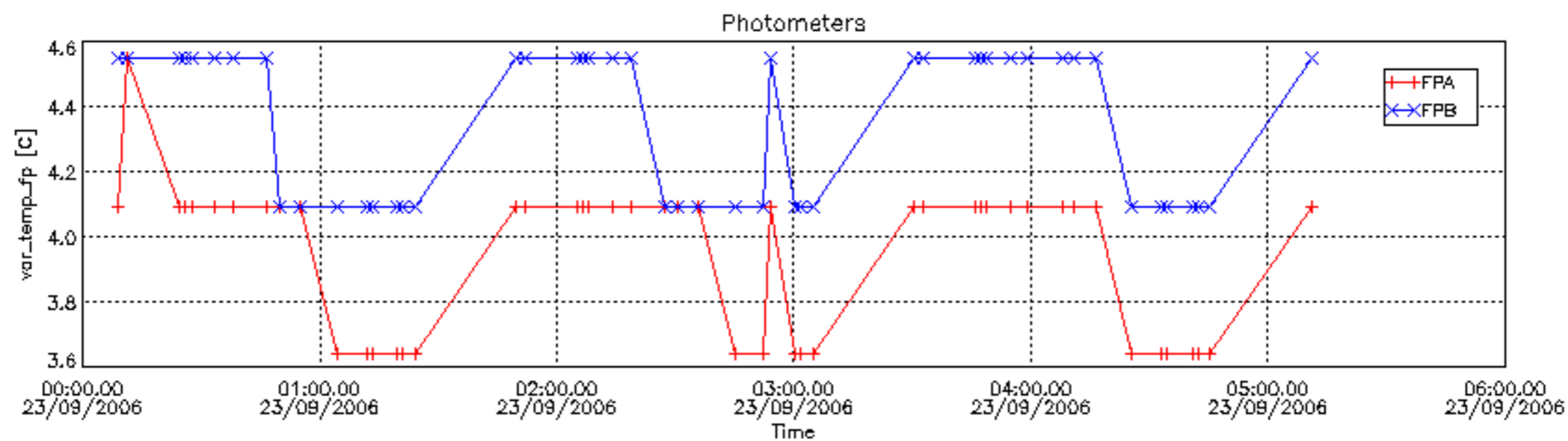
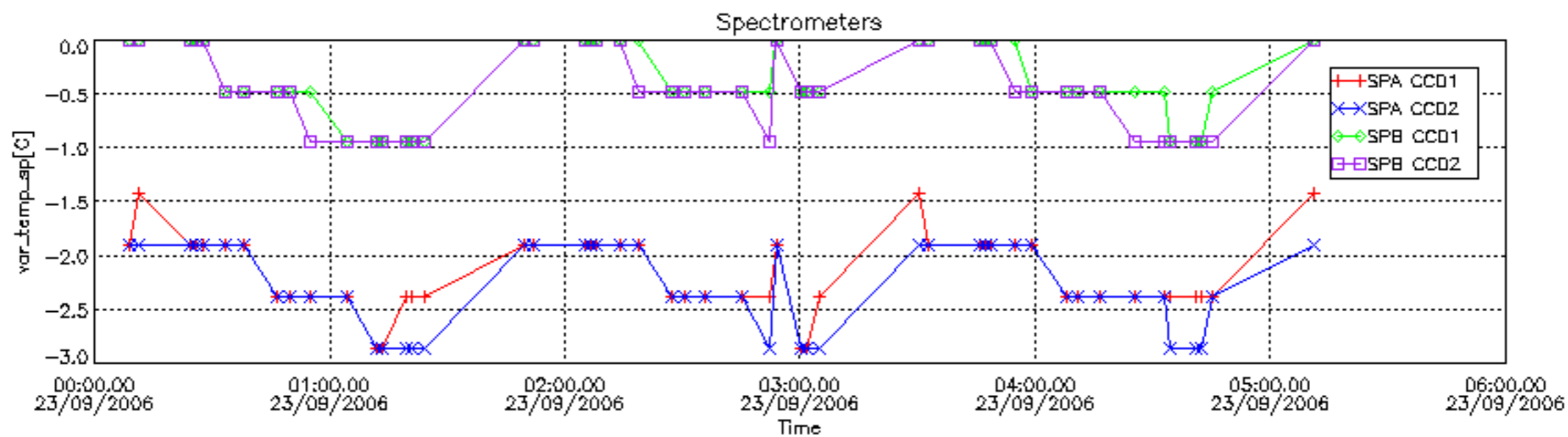
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

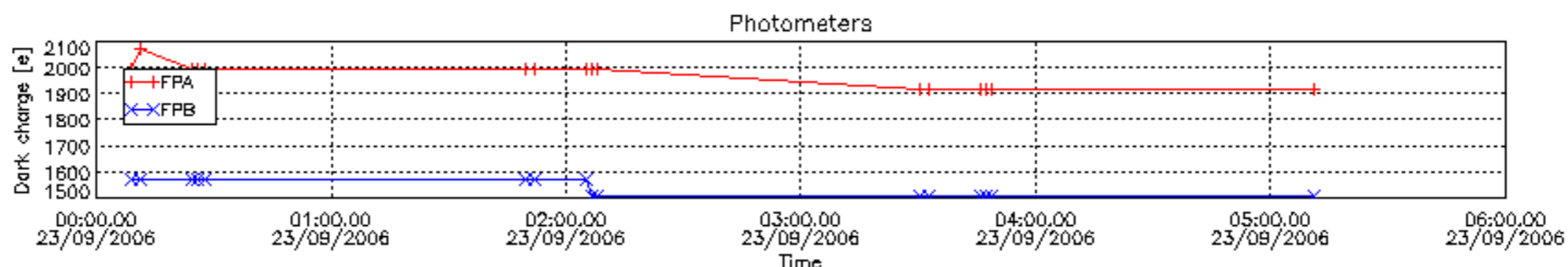
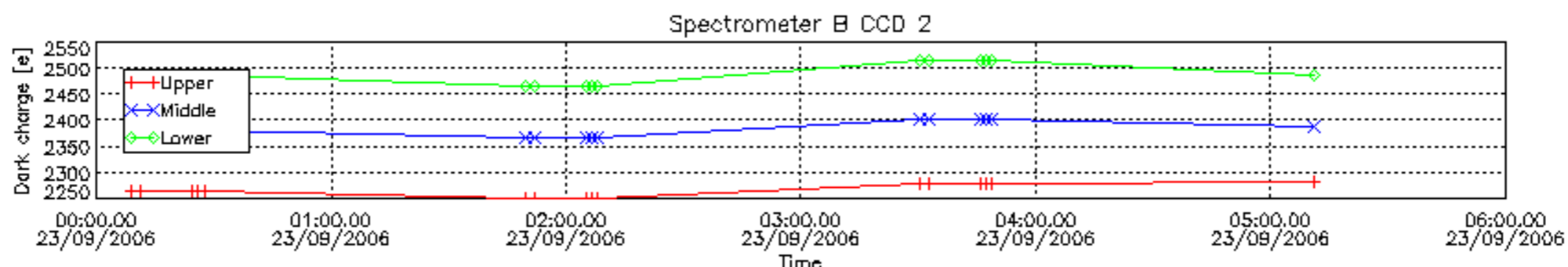
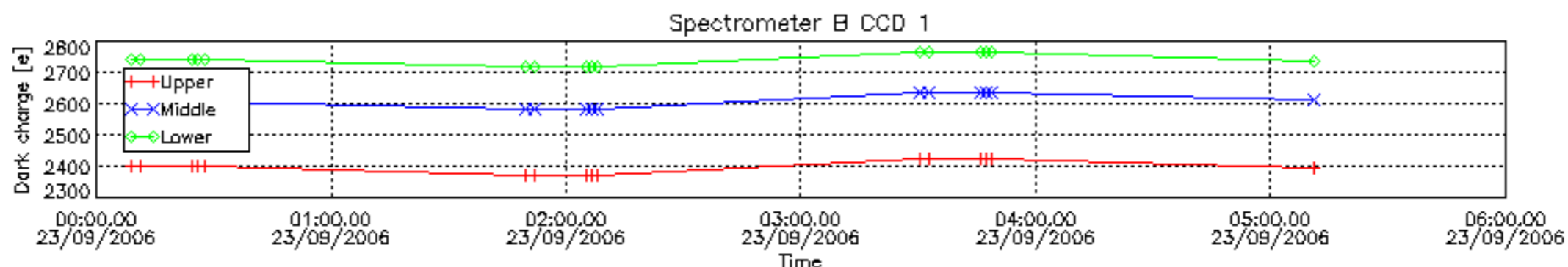
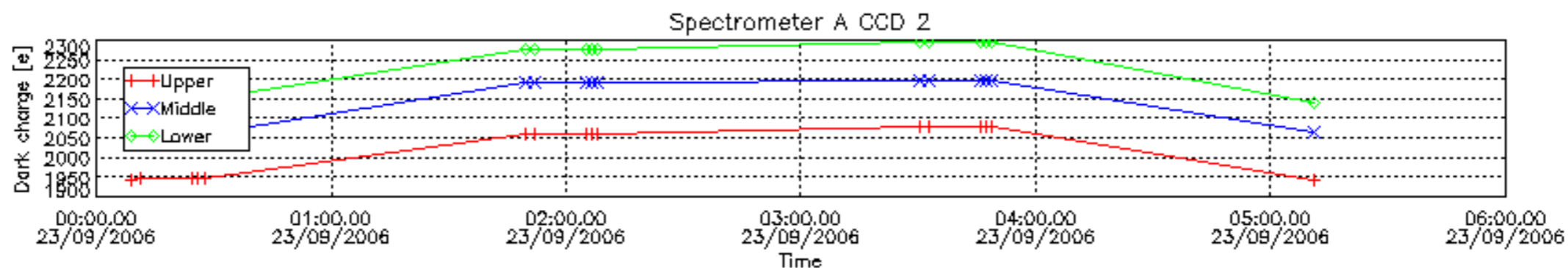
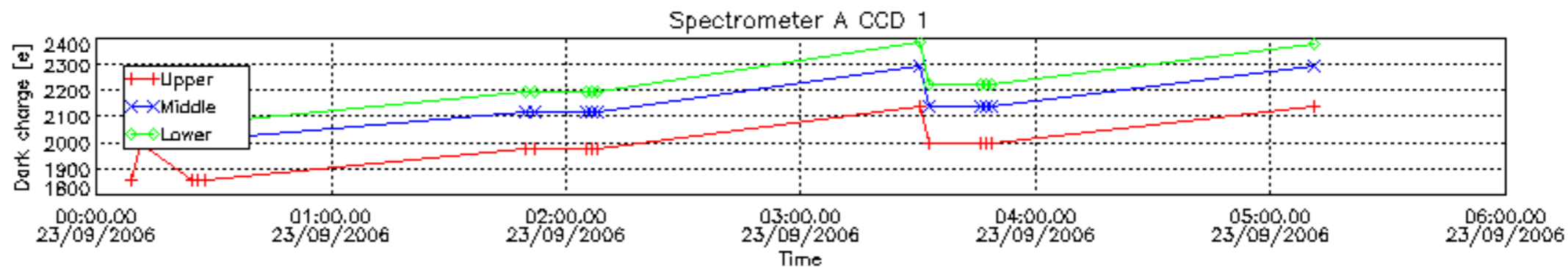


### 8. Auxiliary Data Files used for the production reported in section 2.2

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.

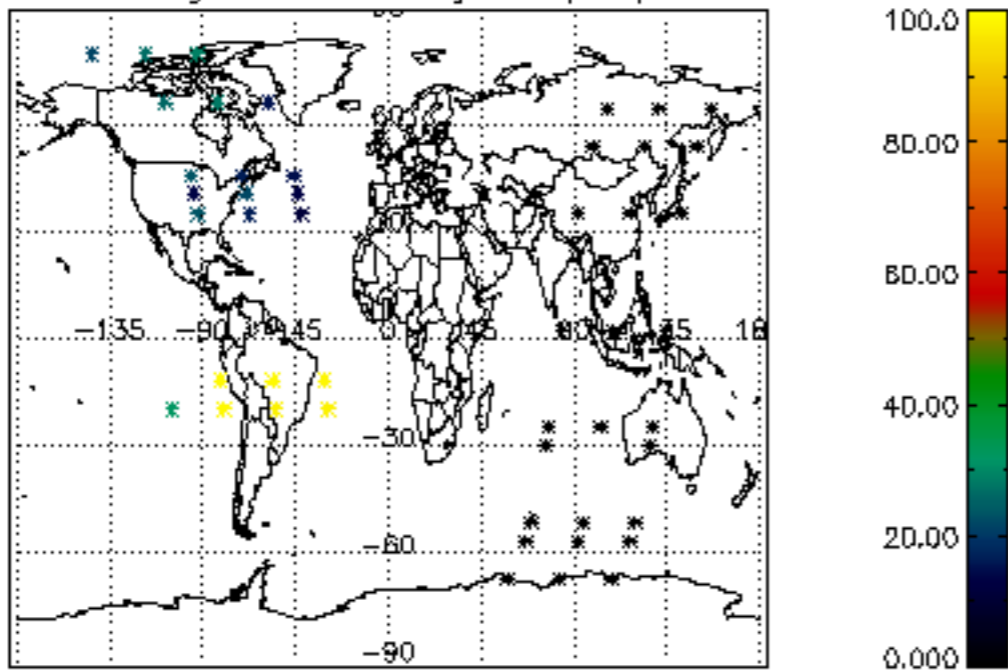
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	23-SEP-2006 00:09:10
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060918_152556_20060916_000000_20100101_000000	1	23-SEP-2006 00:09:10
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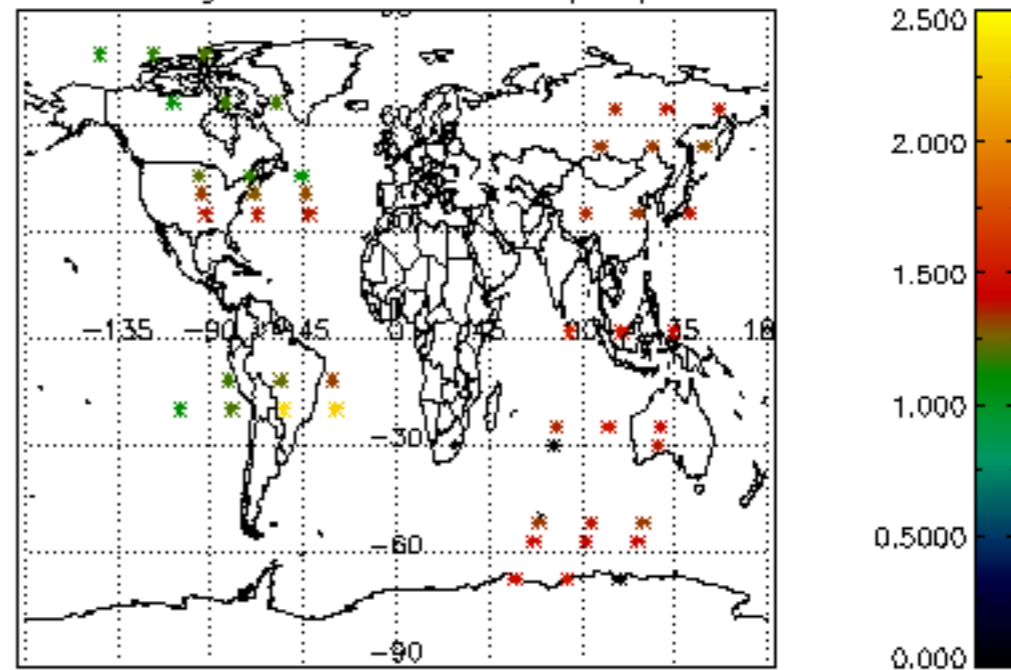




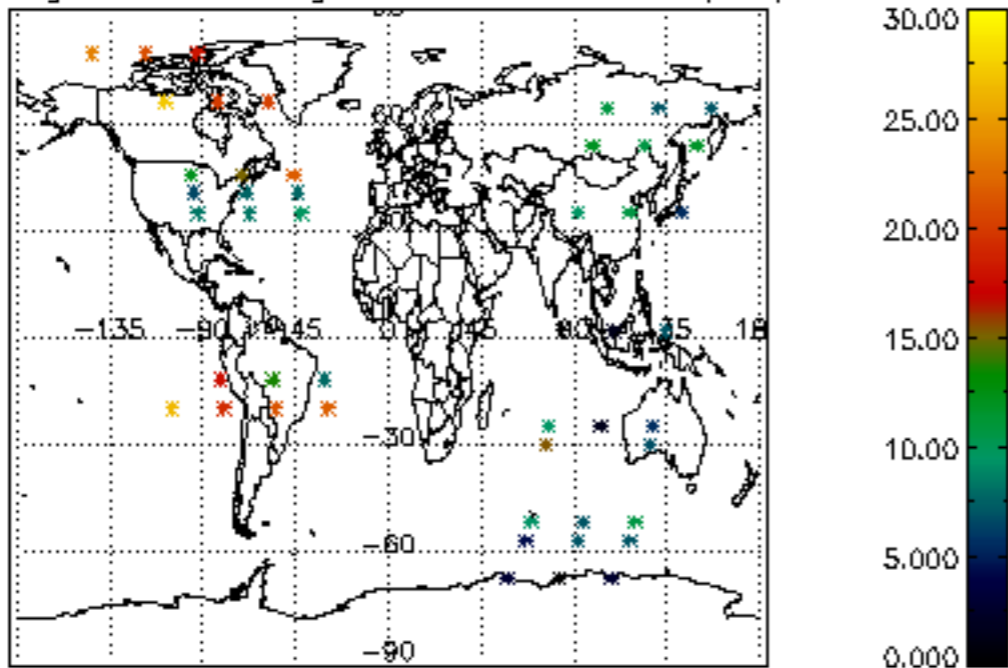
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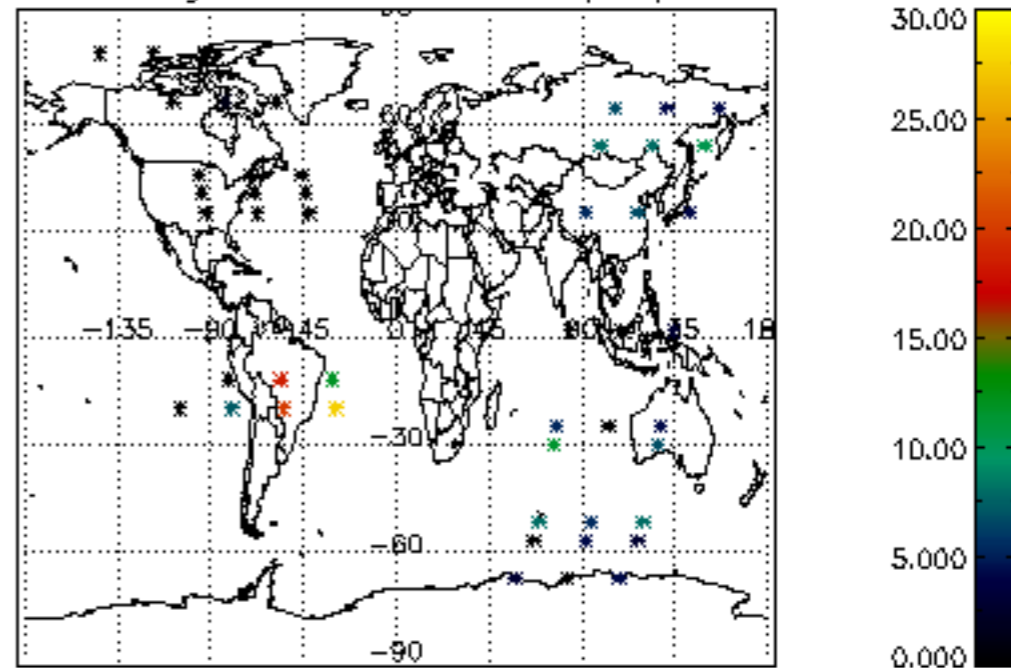
Percentage of datation errors per profile



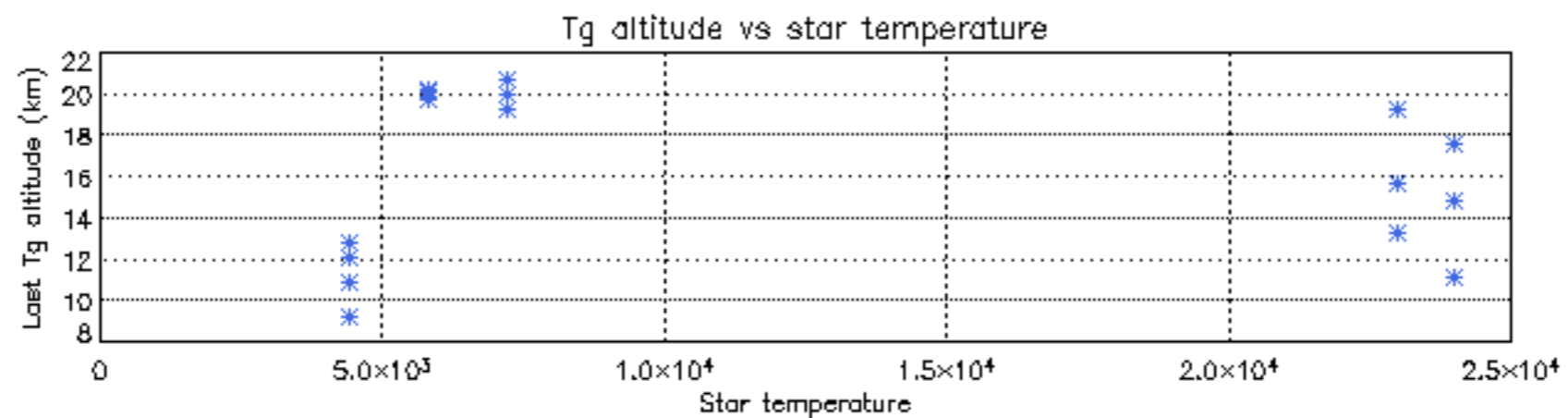
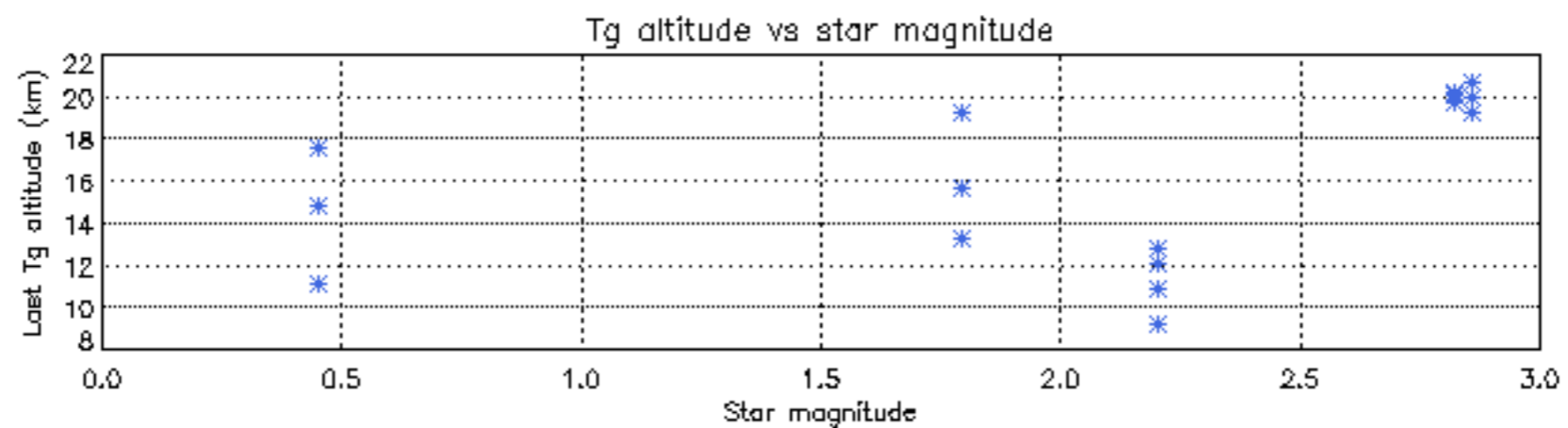
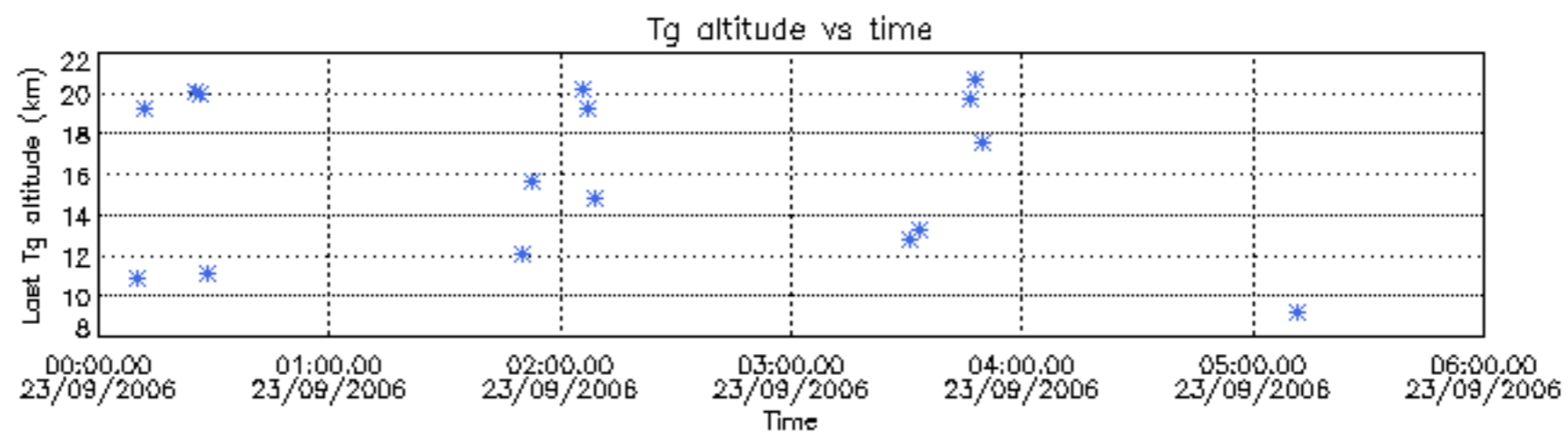
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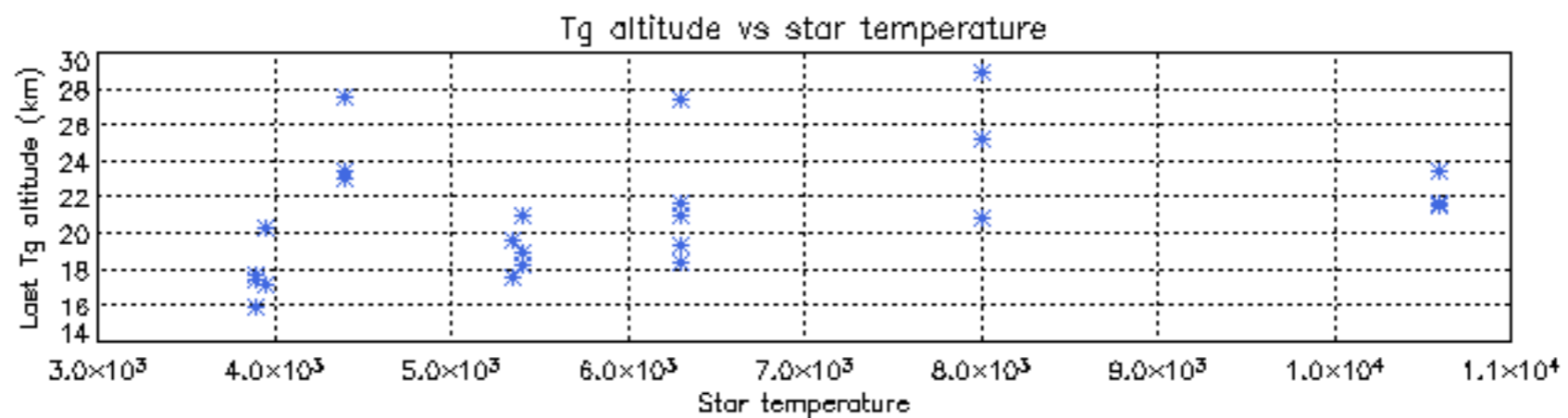
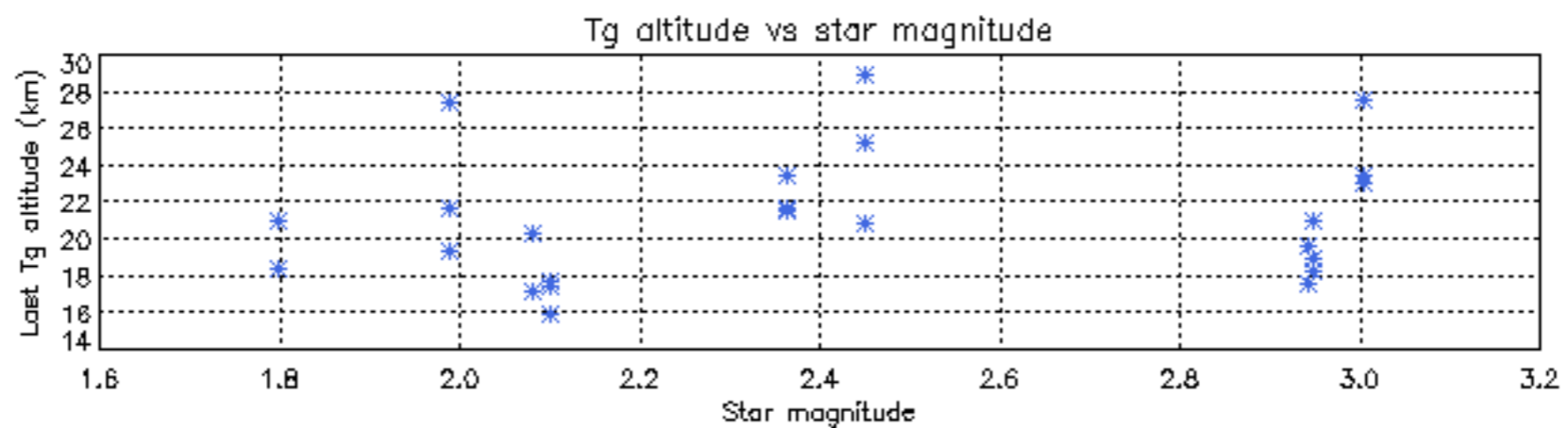
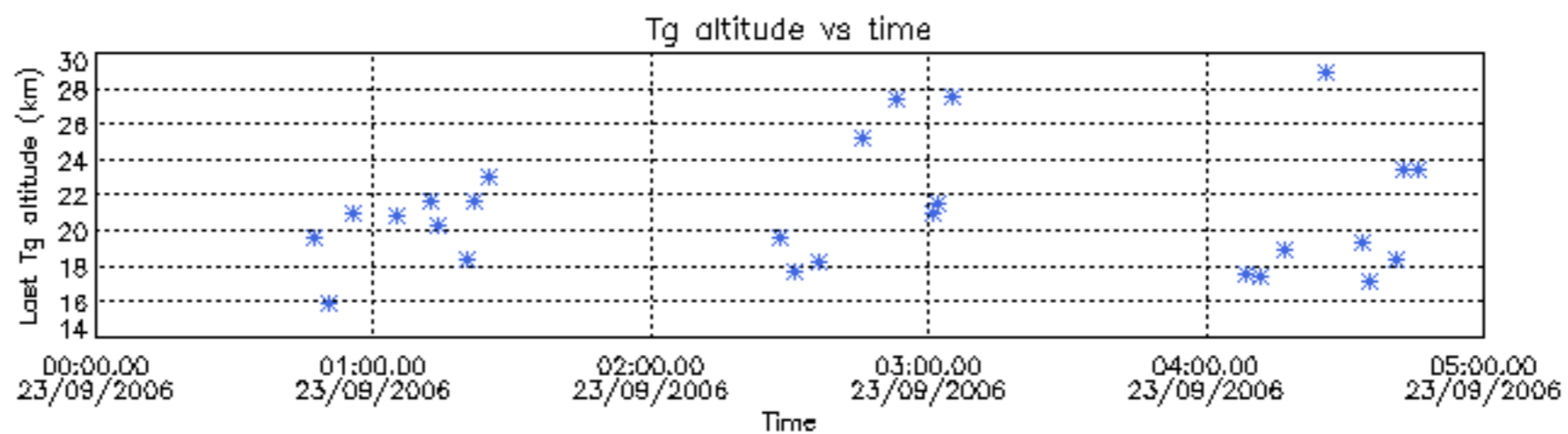
Percentage of saturation errors per profile



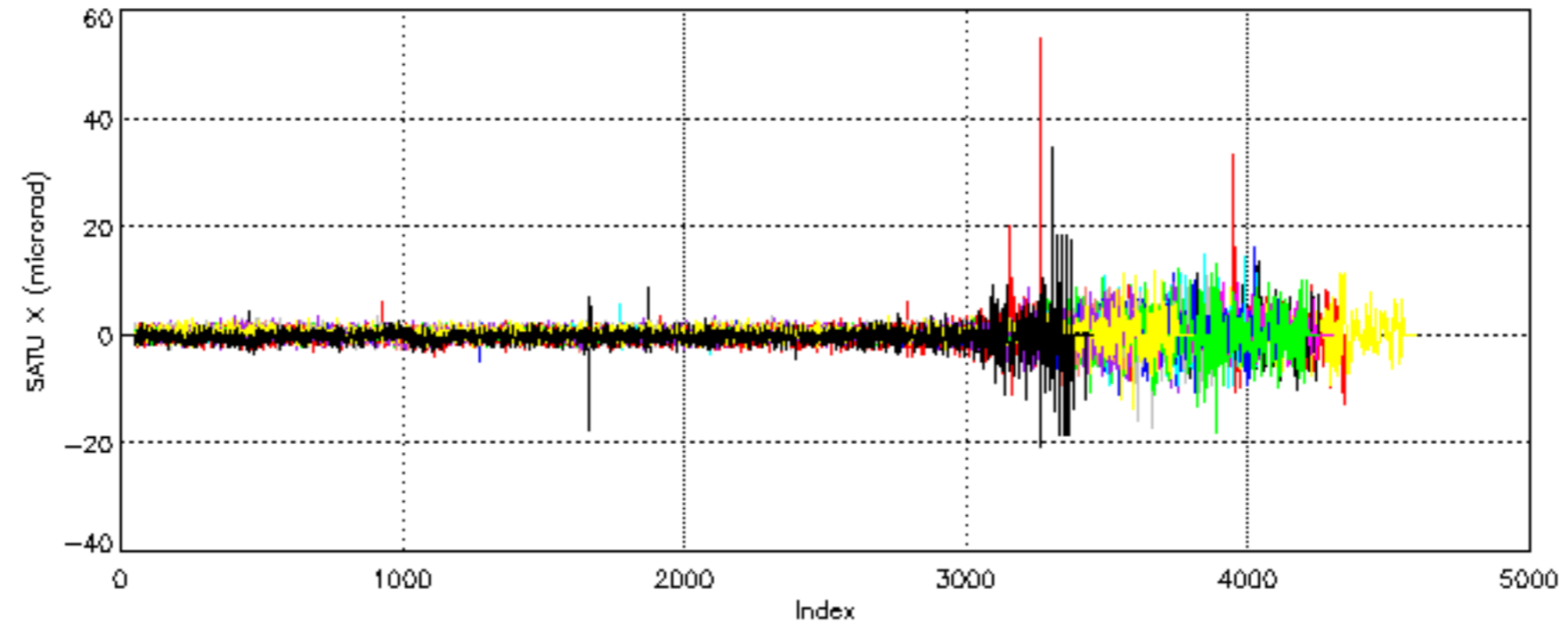
Tangent altitude at which the star is lost

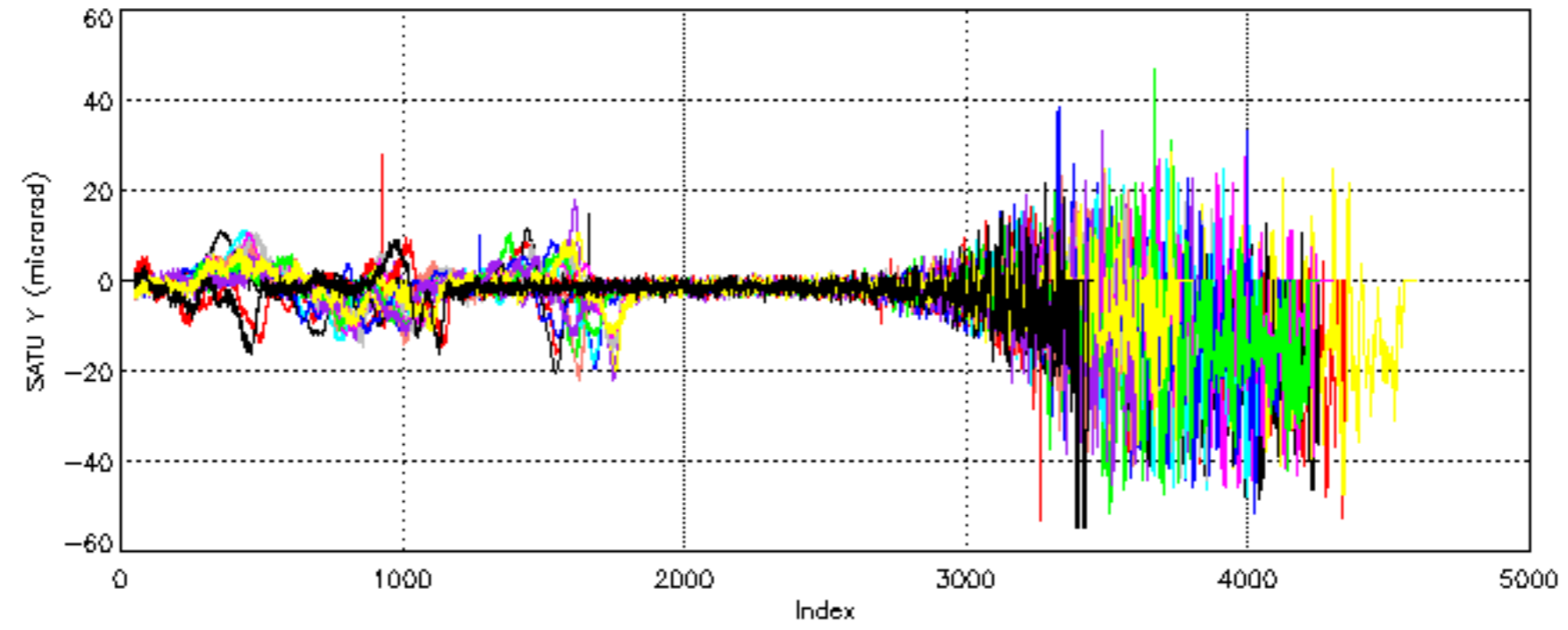


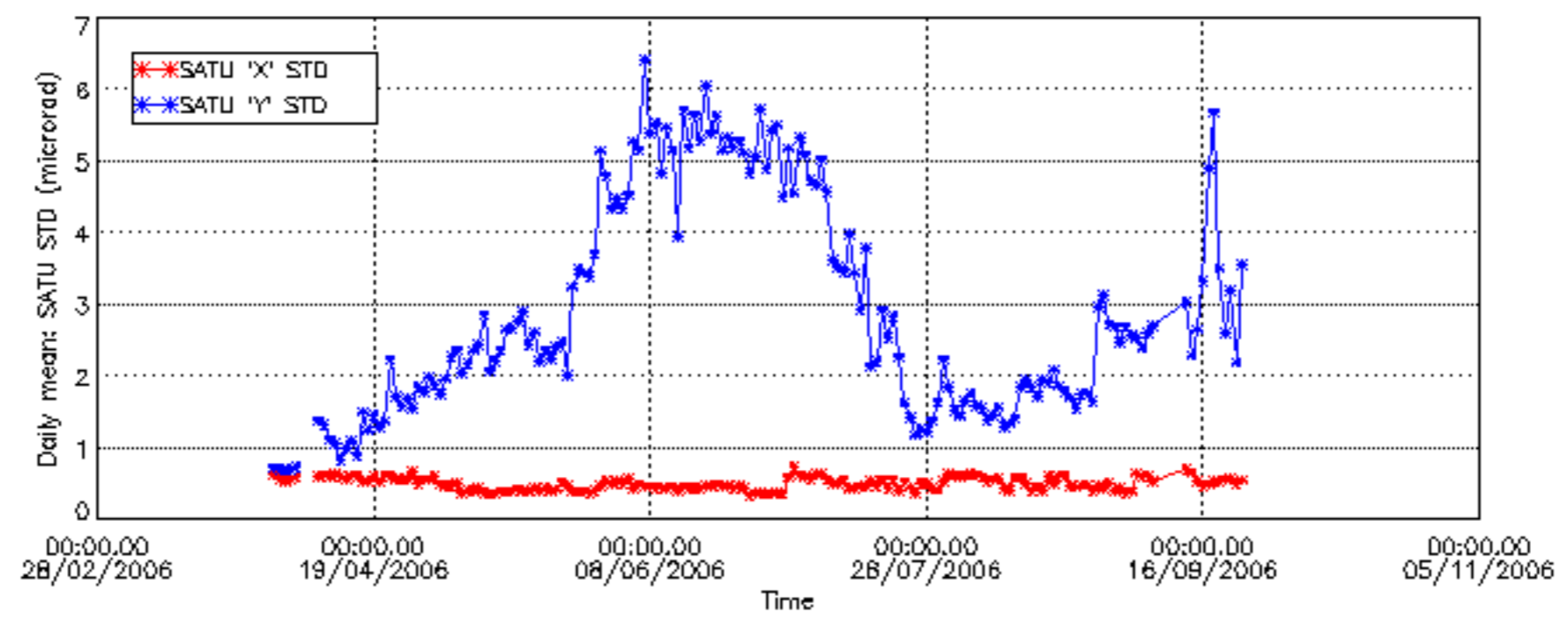
Tangent altitude at which the star is lost











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