

# GOMOS Daily Report 16-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	17SEP2006 05:40:03
Data source version	GOMOS/5.00
Start time of products	QDS_YESTERDAY(/START) (16SEP2006 00:00:00)
Stop time of products	QDS_YESTERDAY(/STOP) (17SEP2006 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	26
Nb of prods with errors	0

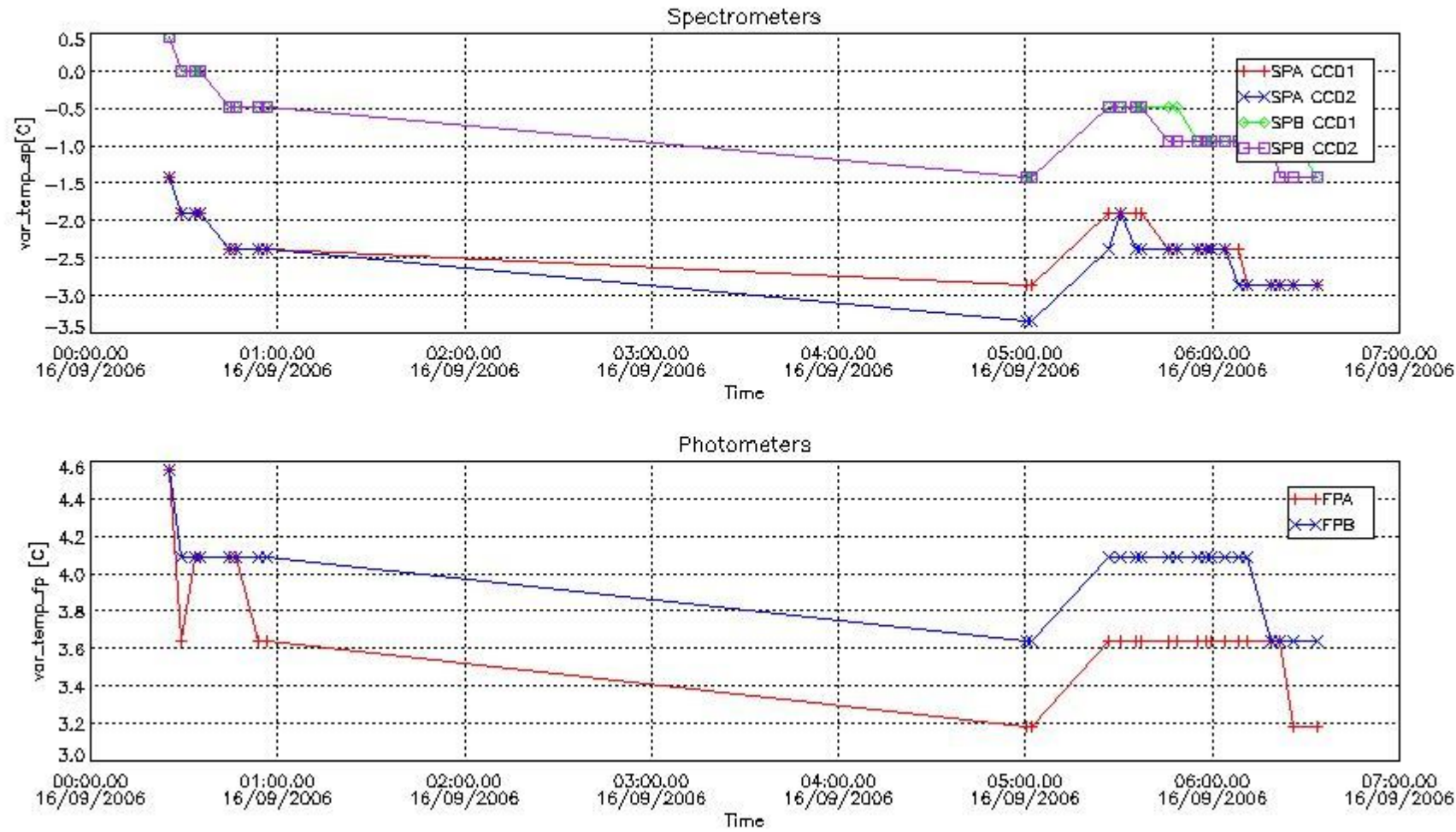
## 2. Summary of products arrived in PCF (Product Control Facility)

### 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_1PNPDE20060916_002459_000000412051_00159_23760_1291.N1	16-SEP-2006 00:24:59	Dark	40.500	132	15Rho Pup	2.8030	6900.0	81	23760	No
2	GOM_TRA_1PNPDE20060916_002854_000000432051_00159_23760_1292.N1	16-SEP-2006 00:28:54	Dark	42.500	65	Lam Vel	2.2040	4400.0	85	23760	No
3	GOM_TRA_1PNPDE20060916_003343_000000512051_00159_23760_1293.N1	16-SEP-2006 00:33:43	Dark	50.500	41	Eps Car	1.8600	4100.0	101	23760	No
4	GOM_TRA_1PNPDE20060916_003509_000000422051_00160_23761_1294.N1	16-SEP-2006 00:35:09	Dark	42.000	2	Alp Car	-0.73600	7000.0	84	23761	No
5	GOM_TRA_1PNPDE20060916_004419_000000372051_00160_23761_1295.N1	16-SEP-2006 00:44:19	Dark	37.000	135	Bet Hyi	2.8200	5800.0	74	23761	No
6	GOM_TRA_1PNPDE20060916_004650_000000442051_00160_23761_1296.N1	16-SEP-2006 00:46:50	Dark	44.000	9	Alp Eri	0.45300	24000.	88	23761	No
7	GOM_TRA_1PNPDE20060916_005335_000000392051_00160_23761_1297.N1	16-SEP-2006 00:53:35	Straylight	39.000	31	Alp Gru	1.7340	15200.	78	23761	No
8	GOM_TRA_1PNPDE20060916_005622_000000372051_00160_23761_1298.N1	16-SEP-2006 00:56:22	Straylight	37.000	172	Gam Gru	3.0030	13100.	74	23761	No
9	GOM_TRA_1PNPDE20060916_050031_000000362051_00162_23763_1296.N1	16-SEP-2006 05:00:31	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	23763	No
10	GOM_TRA_1PNPDE20060916_050157_000000352051_00162_23763_1297.N1	16-SEP-2006 05:01:57	Bright	35.000	82	48Bet UMa	2.3650	10600.	70	23763	No
11	GOM_TRA_1PNPDE20060916_052648_000000432051_00162_23763_1298.N1	16-SEP-2006 05:26:48	Dark	42.500	132	15Rho Pup	2.8030	6900.0	85	23763	No
12	GOM_TRA_1PNPDE20060916_053043_000000422051_00162_23763_1299.N1	16-SEP-2006 05:30:43	Dark	41.500	65	Lam Vel	2.2040	4400.0	83	23763	No
13	GOM_TRA_1PNPDE20060916_053532_000000492051_00162_23763_1300.N1	16-SEP-2006 05:35:32	Dark	48.500	41	Eps Car	1.8600	4100.0	97	23763	No
14	GOM_TRA_1PNPDE20060916_053659_000000572051_00163_23764_1301.N1	16-SEP-2006 05:36:59	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	23764	No
15	GOM_TRA_1PNPDE20060916_054607_000000362051_00163_23764_1302.N1	16-SEP-2006 05:46:07	Dark	35.500	135	Bet Hyi	2.8200	5800.0	71	23764	No
16	GOM_TRA_1PNPDE20060916_054840_000000412051_00163_23764_1303.N1	16-SEP-2006 05:48:40	Dark	40.500	9	Alp Eri	0.45300	24000.	81	23764	No
17	GOM_TRA_1PNPDE20060916_055524_000000402051_00163_23764_1304.N1	16-SEP-2006 05:55:24	Straylight	39.500	31	Alp Gru	1.7340	15200.	79	23764	No
18	GOM_TRA_1PNPDE20060916_055811_000000372051_00163_23764_1305.N1	16-SEP-2006 05:58:11	Straylight	37.000	172	Gam Gru	3.0030	13100.	74	23764	No
19	GOM_TRA_1PNPDE20060916_055936_000000452051_00163_23764_1306.N1	16-SEP-2006 05:59:36	Straylight	45.000	18	24Alp PsA	1.1660	9700.0	90	23764	No
20	GOM_TRA_1PNPDE20060916_060408_000000382051_00163_23764_1307.N1	16-SEP-2006 06:04:08	Twilight	37.500	142	49Del Cap	2.8500	8900.0	75	23764	No
21	GOM_TRA_1PNPDE20060916_060821_000000372051_00163_23764_1308.N1	16-SEP-2006 06:08:21	Bright	37.000	162	34Alp Aqr	2.9440	5350.0	74	23764	No
22	GOM_TRA_1PNPDE20060916_061121_000000372051_00163_23764_1309.N1	16-SEP-2006 06:11:21	Bright	36.500	61	8Eps Peg	2.1000	3900.0	73	23764	No
23	GOM_TRA_1PNPDE20060916_061840_000000382051_00163_23764_1310.N1	16-SEP-2006 06:18:40	Bright	38.000	92	53Eps Cyg	2.5000	4500.0	76	23764	No
24	GOM_TRA_1PNPDE20060916_062145_000000372051_00163_23764_1311.N1	16-SEP-2006 06:21:45	Bright	37.000	19	50Alp Cyg	1.2460	10500.	74	23764	No
25	GOM_TRA_1PNPDE20060916_062607_000000352051_00163_23764_1312.N1	16-SEP-2006 06:26:07	Bright	35.000	89	5Alp Cep	2.4510	8000.0	70	23764	No
26	GOM_TRA_1PNPDE20060916_063347_000000352051_00163_23764_1313.N1	16-SEP-2006 06:33:47	Bright	34.500	49	1Alp UMi	1.9900	6300.0	69	23764	No

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



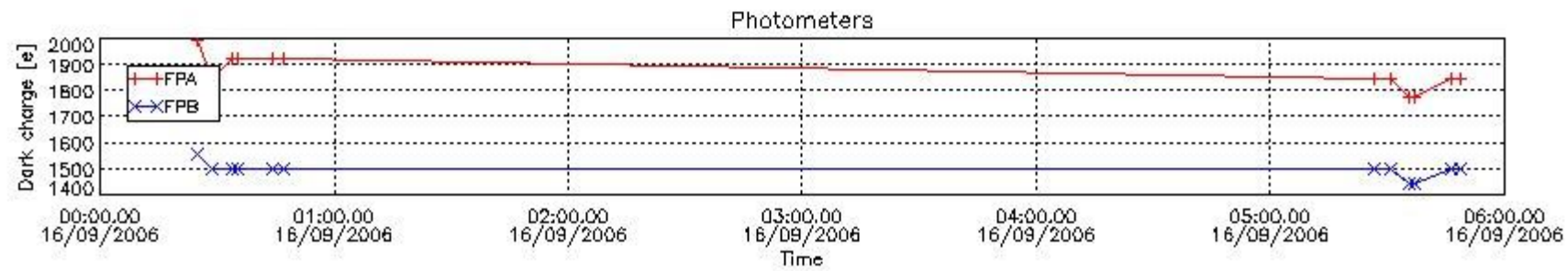
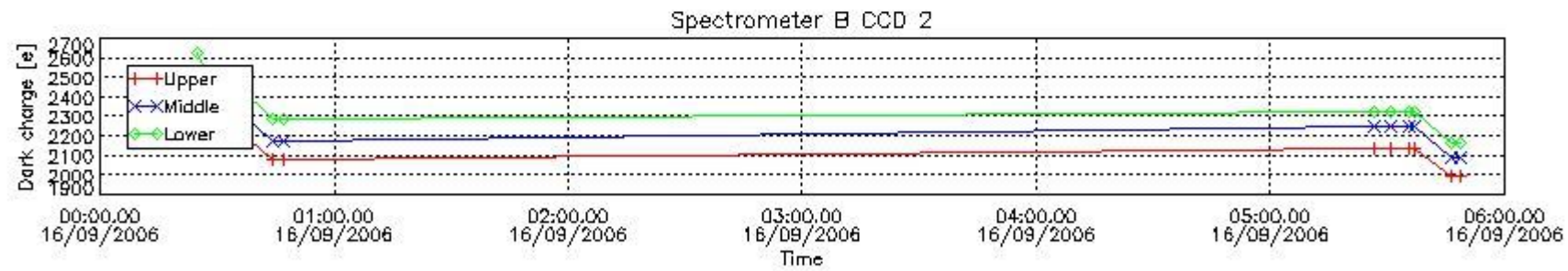
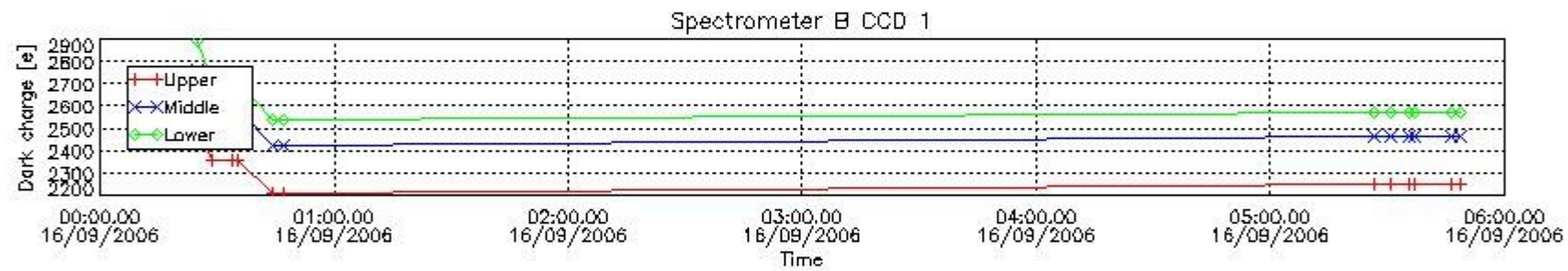
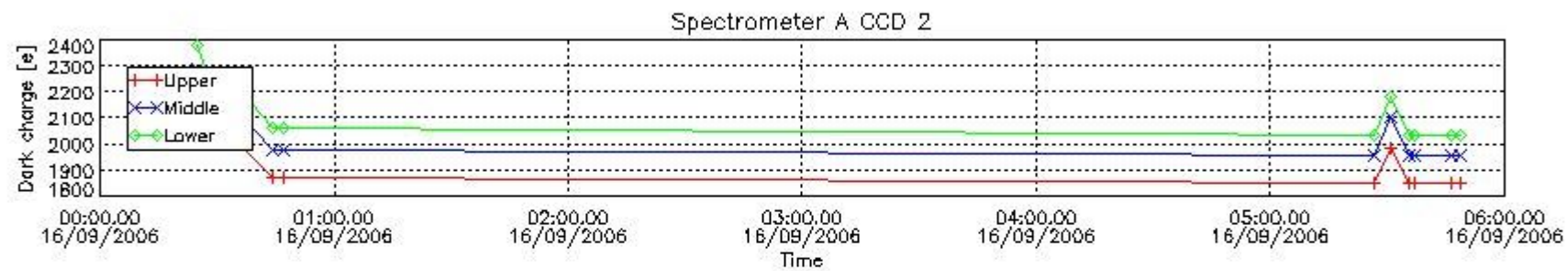
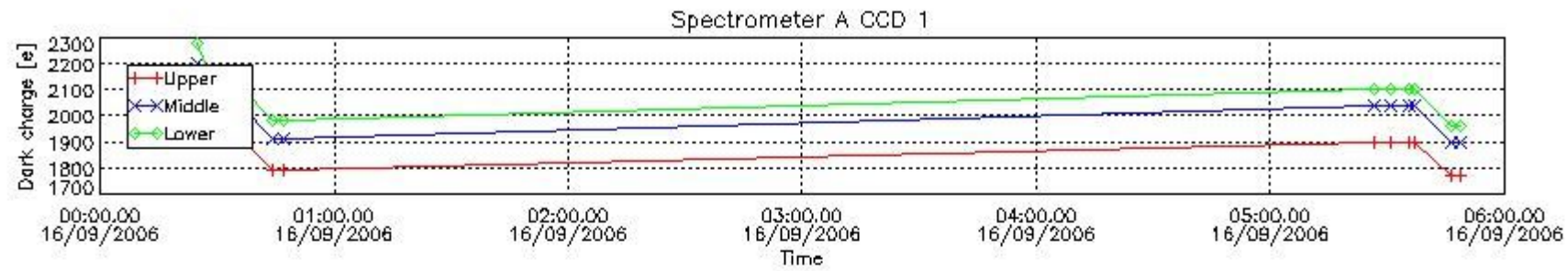
#### 4. Overview of dark signal processing per product

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



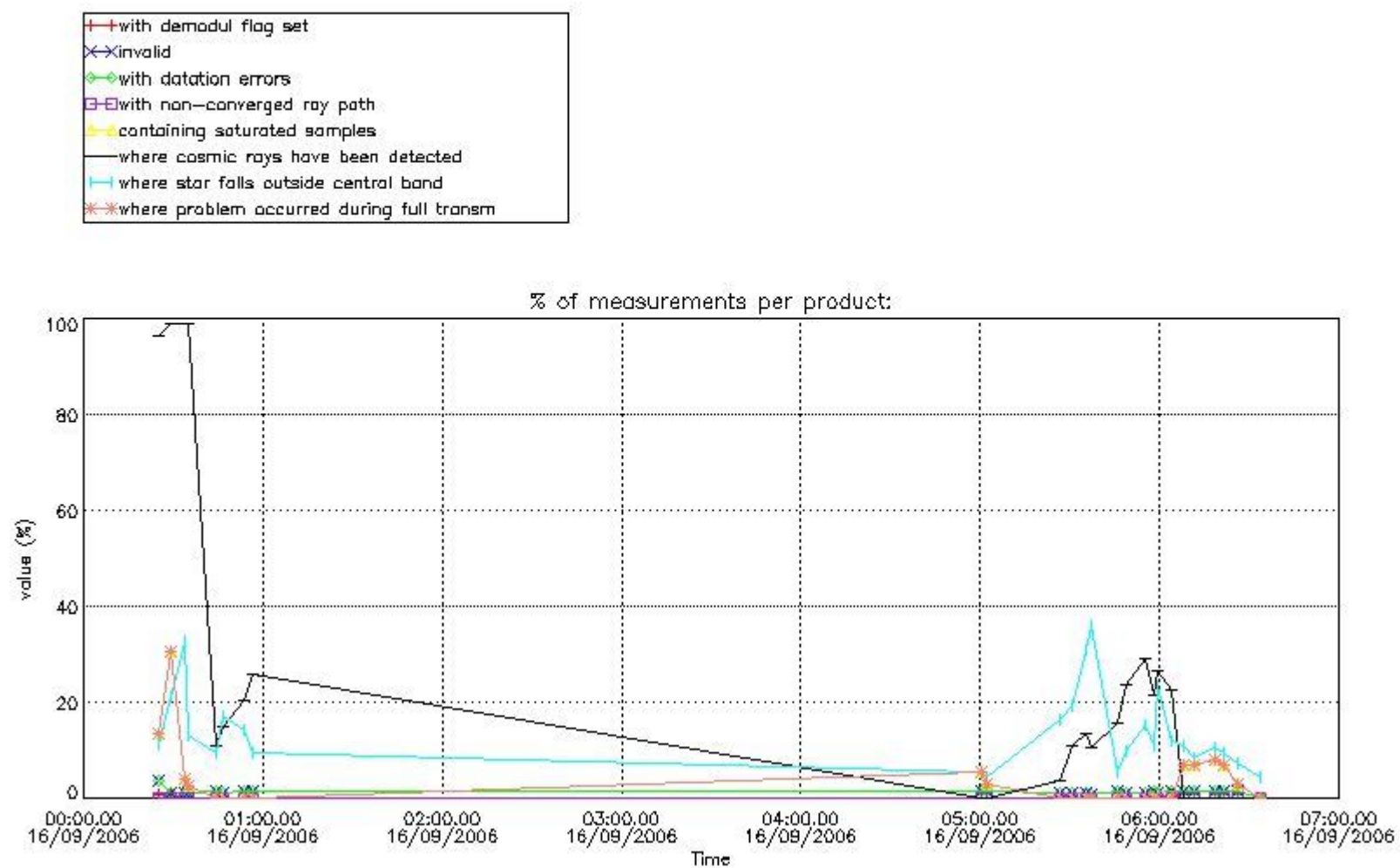
## 5. Demodulation flag and quality information monitoring

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.

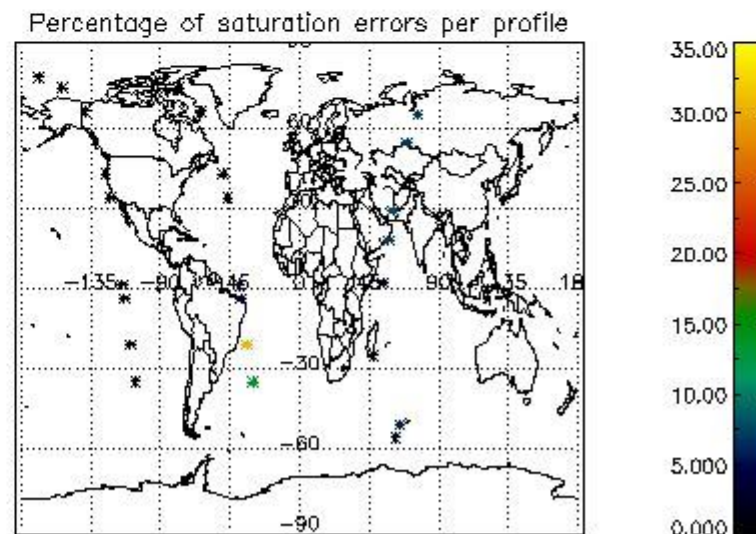
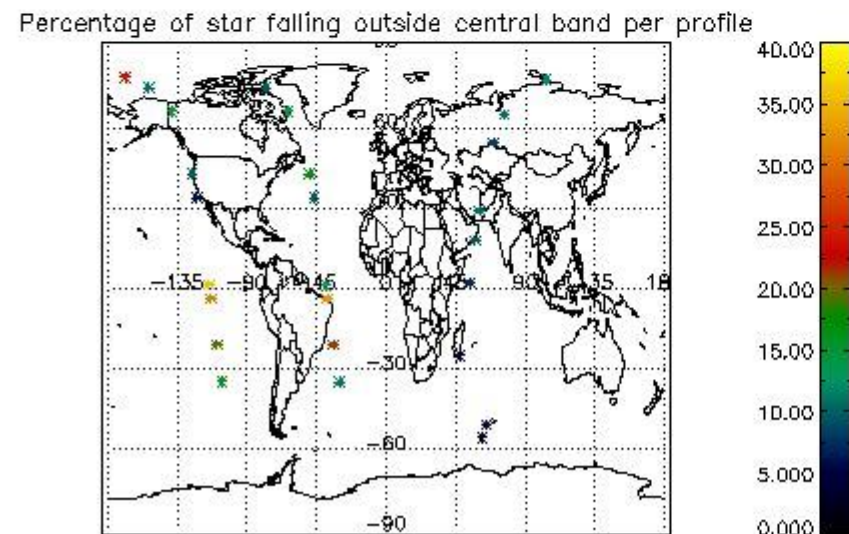
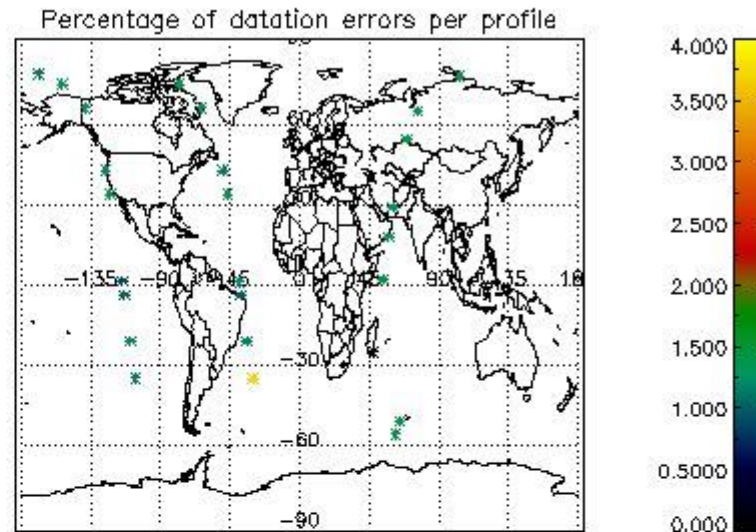
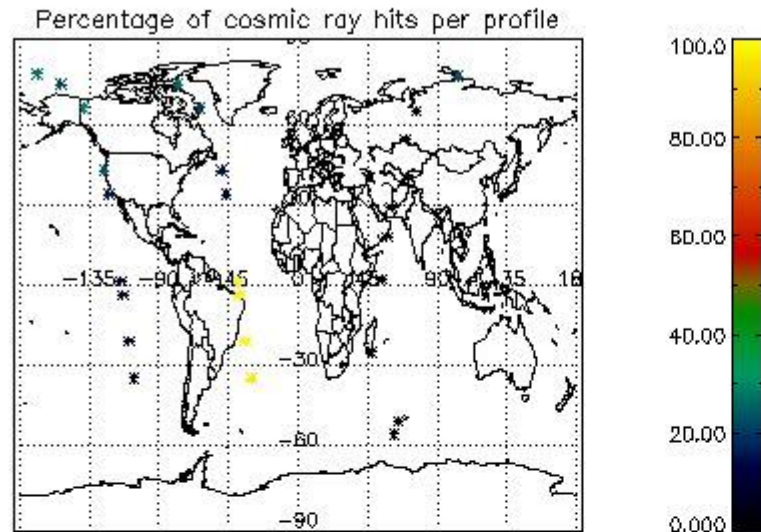
### 5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	30.7692 %
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)



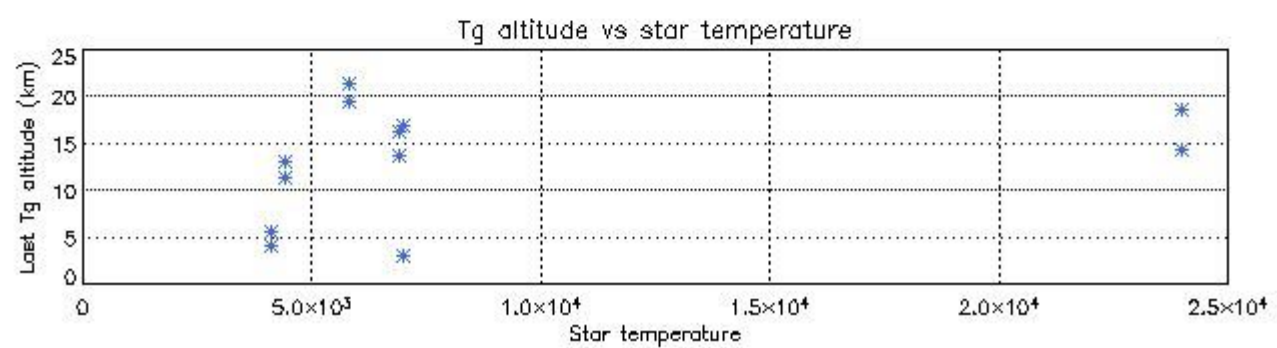
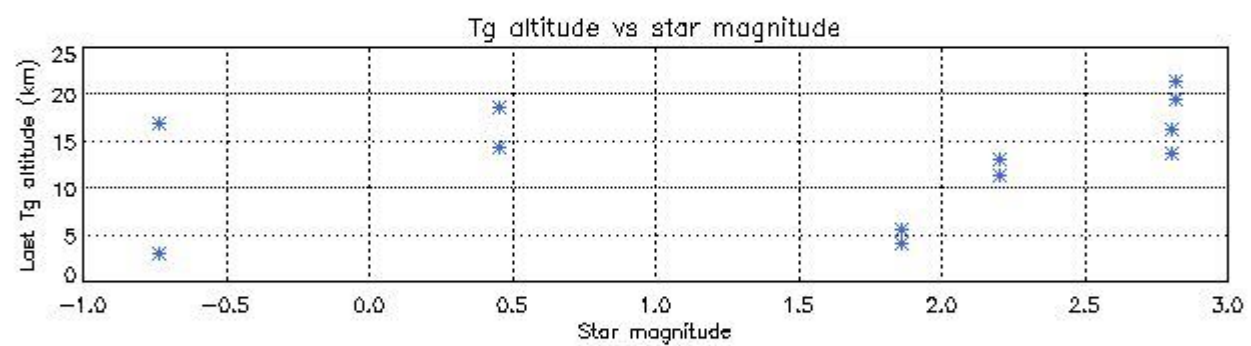
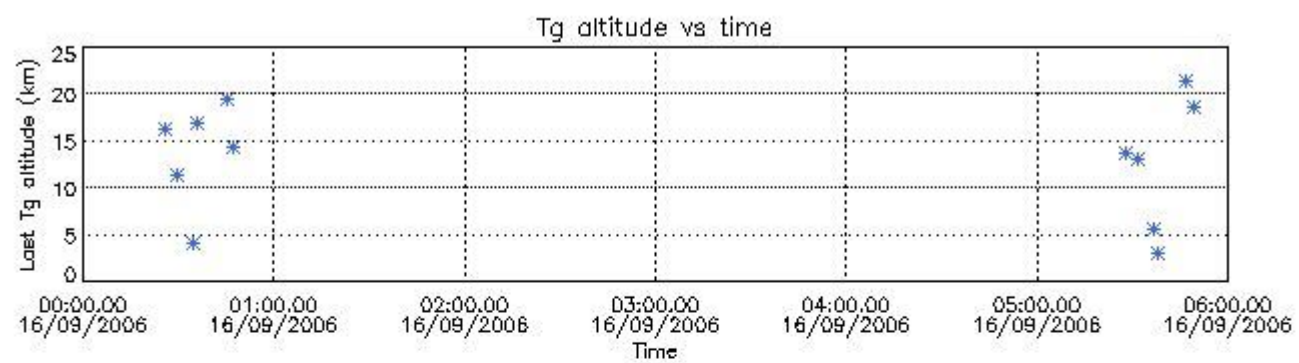
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.164	20.095	NaN
St. deviation:	6.0818	2.5171	NaN
Maximum:	21.454	23.814	NaN
Minimum:	3.0802	17.028	NaN
Number of data:	12.000	8.0000	NaN

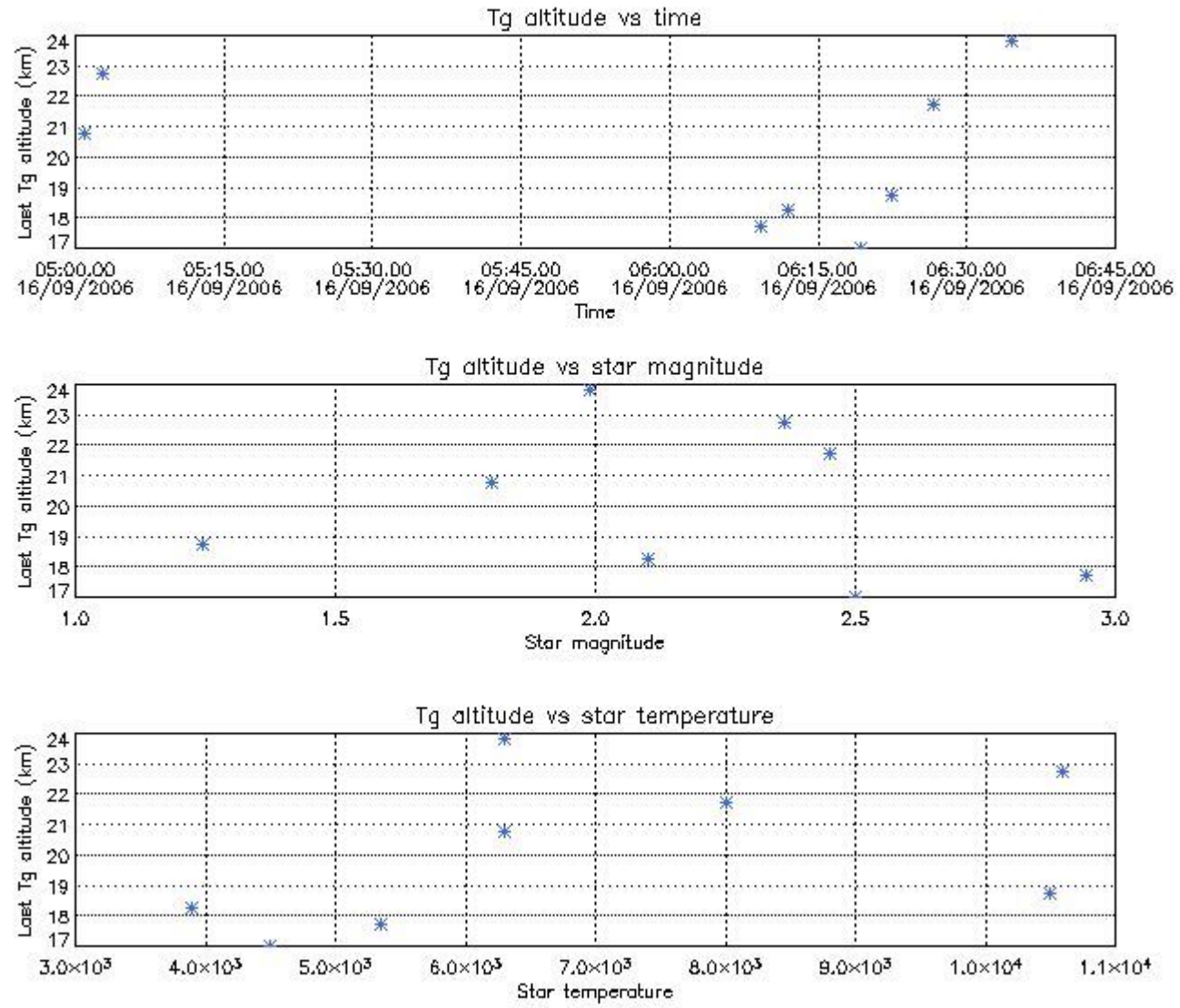
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



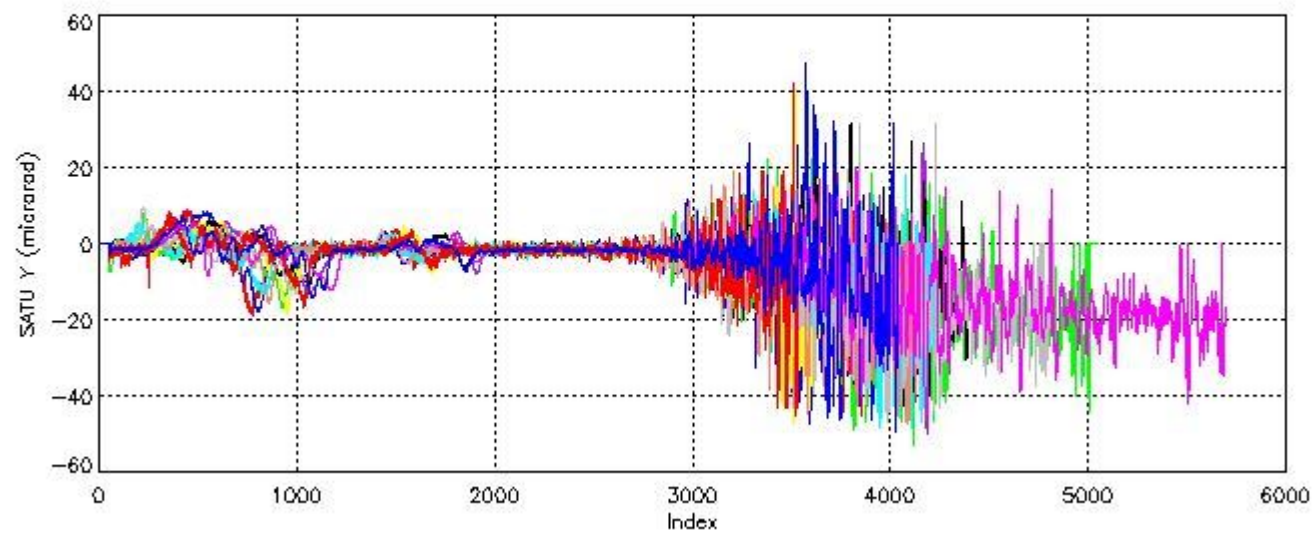
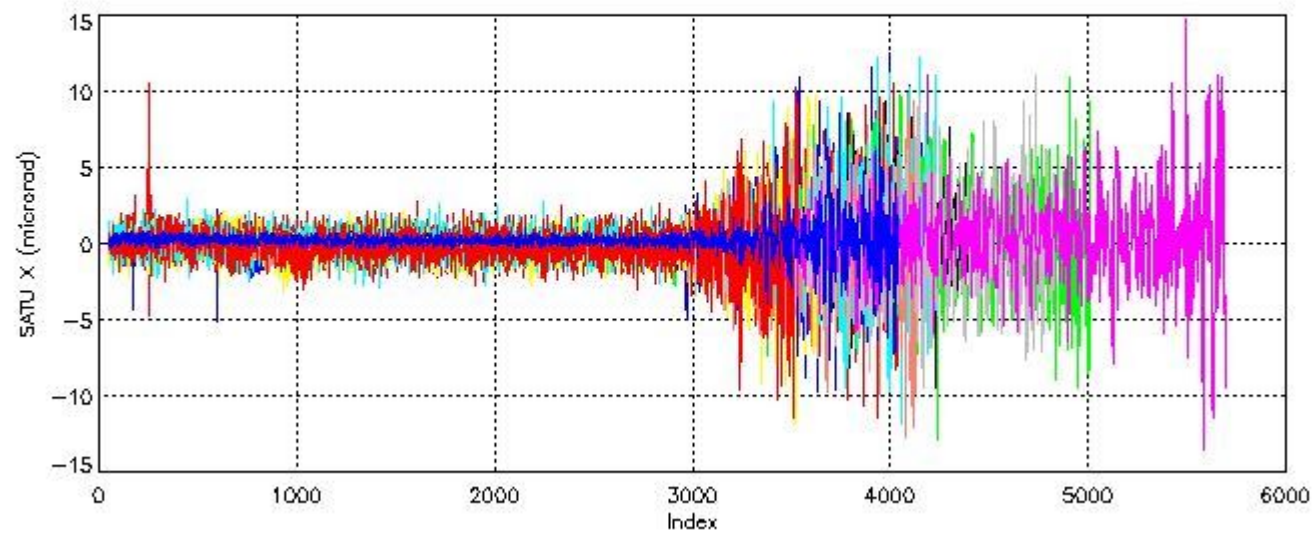
## 7. Star Acquisition and Tracking Unit (SATU)

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.

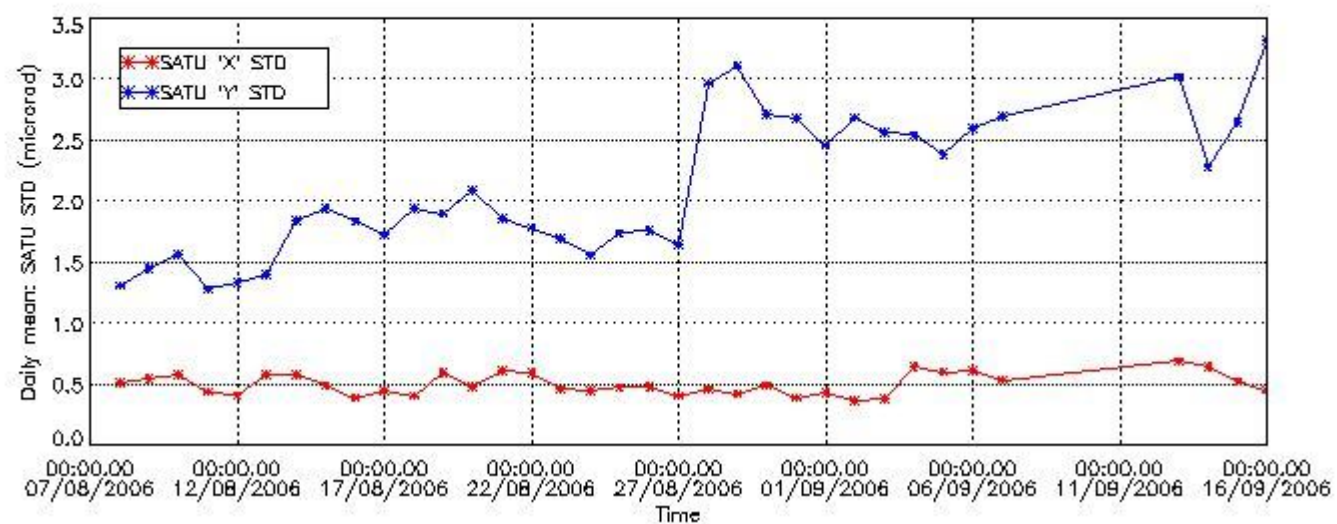
### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.065680	-0.42412	0.030462	-0.54014
St. deviation:	0.44971	3.3231	0.63505	2.7841
Maximum:	10.500	9.7000	3.1000	7.2000
Minimum:	-0.30000	-5.1000	-1.7000	-16.300

Number of data:	10750.	10750.	6600.0	6600.0
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### 7.2.2 Trend of daily SATU NEA St. deviation during the last two months (dark limb)

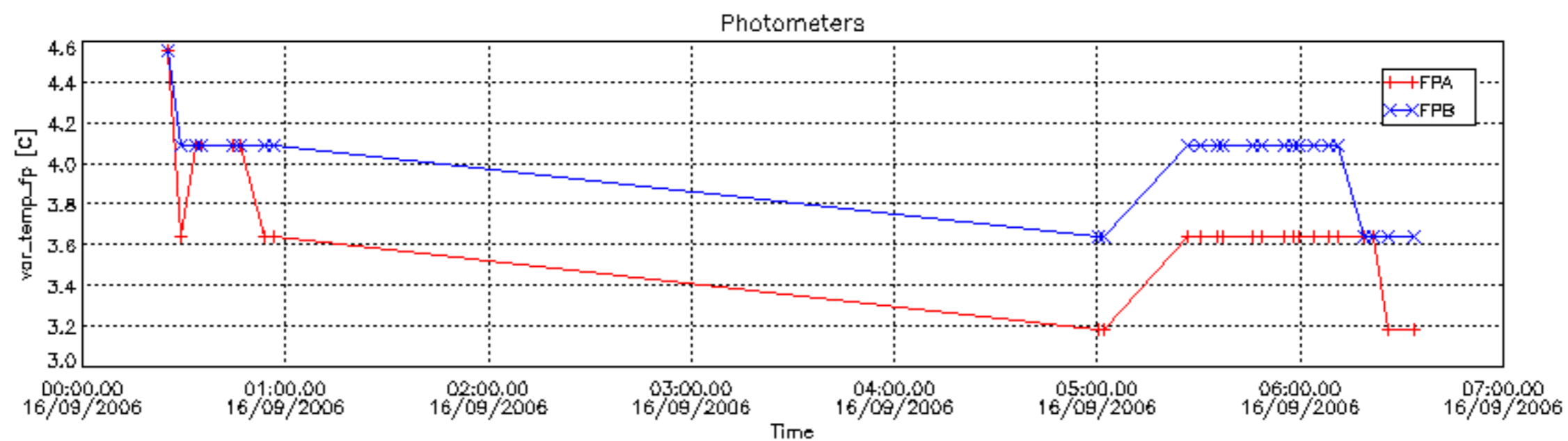
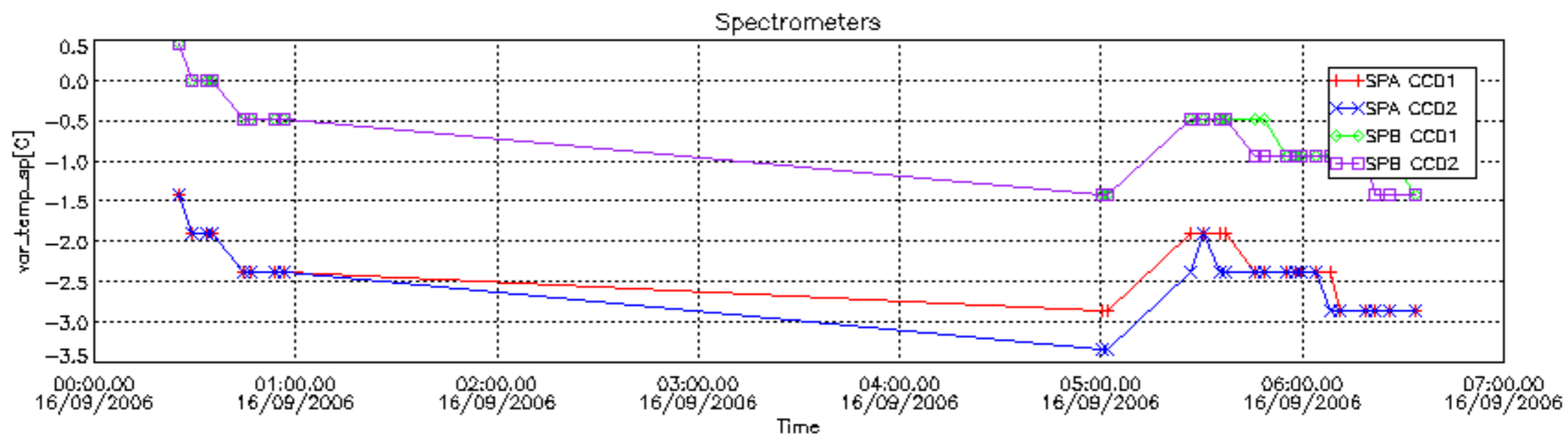
The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

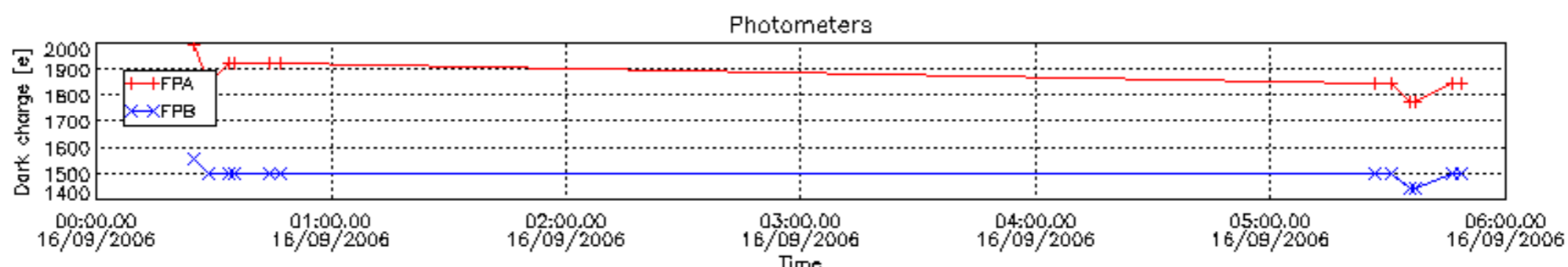
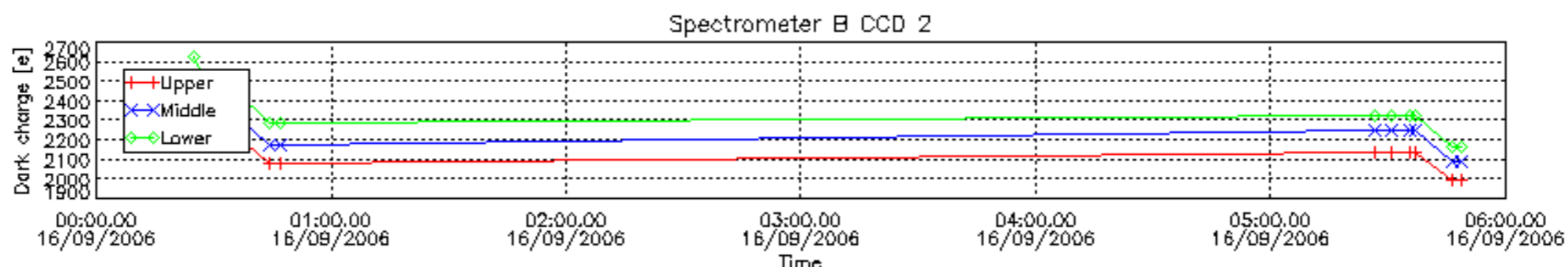
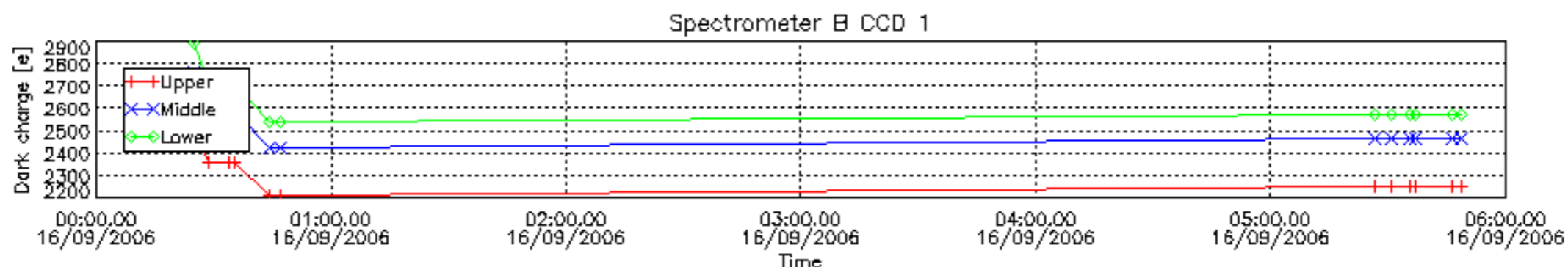
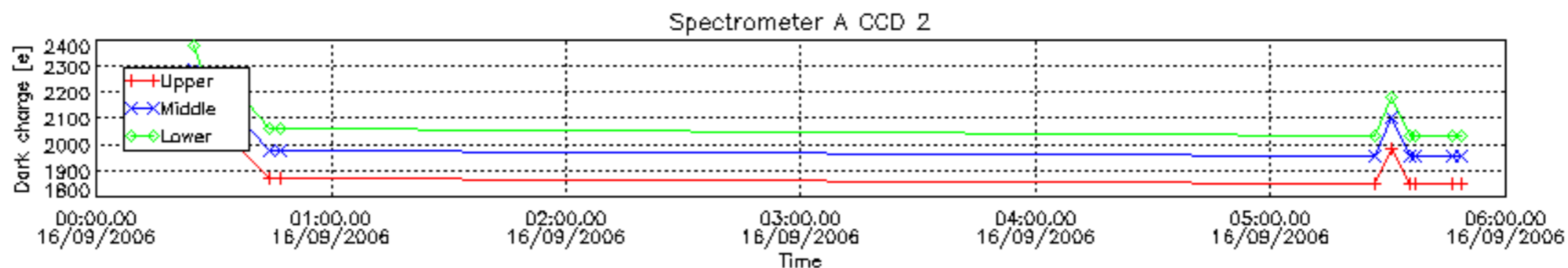
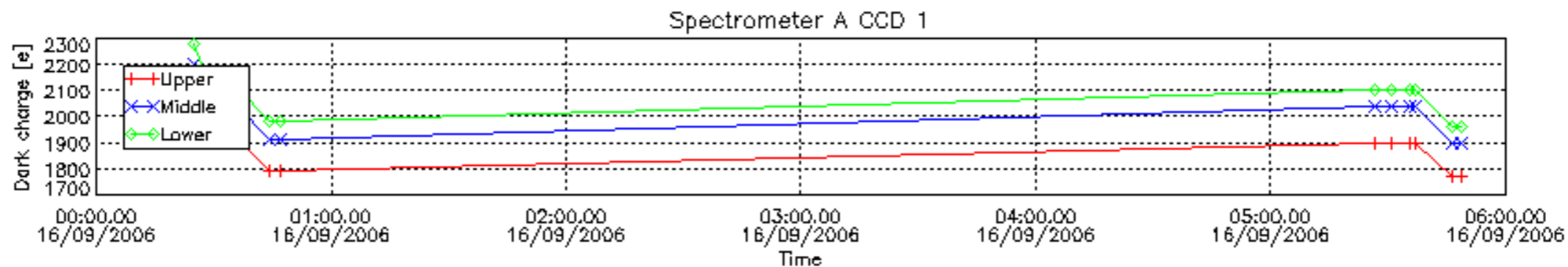


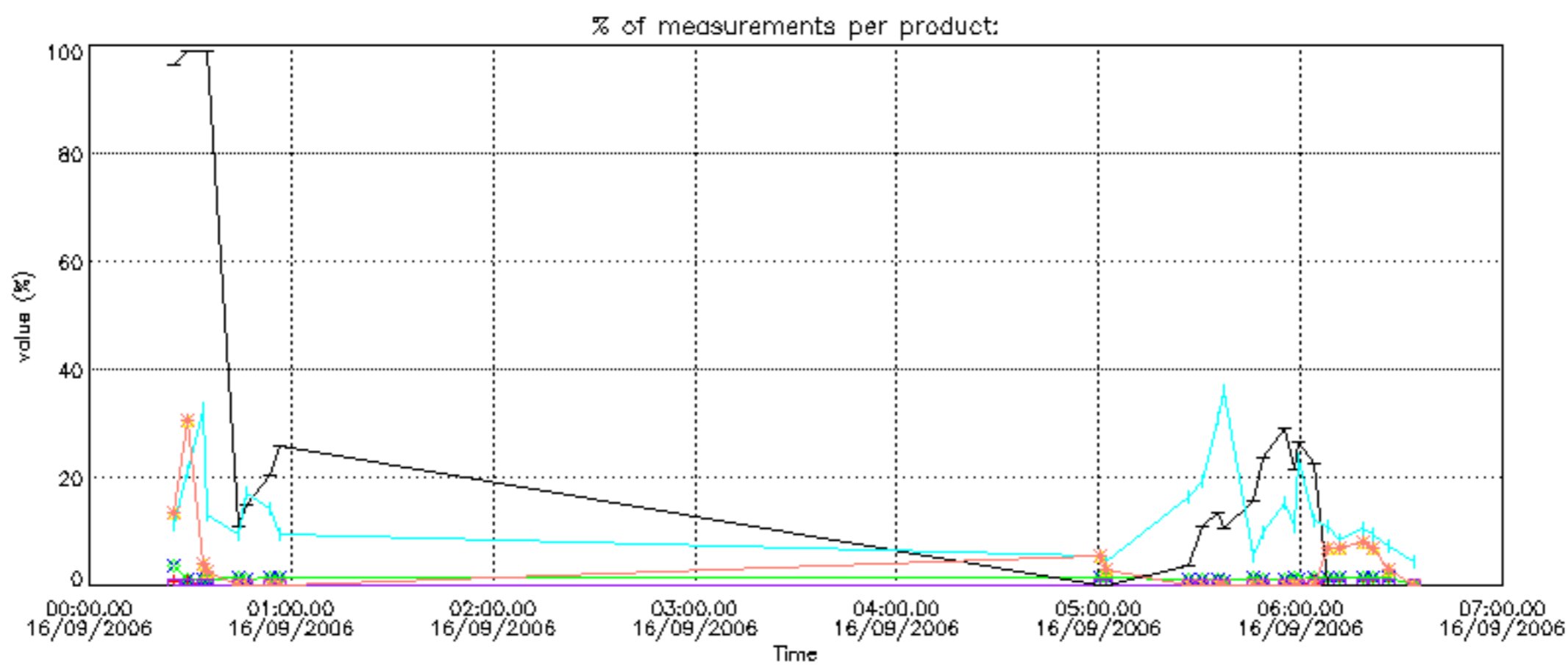
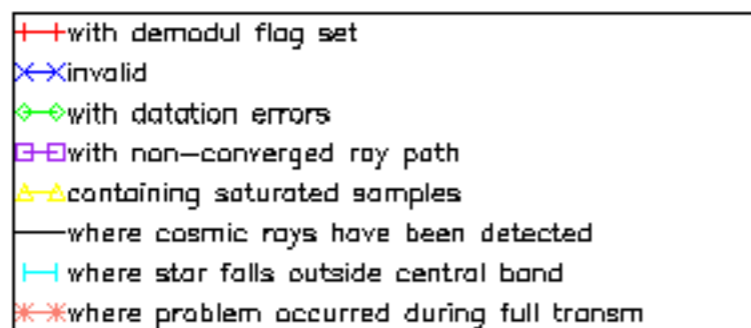
### 8. Auxiliary Data Files used for the production reported in section 2.2

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.

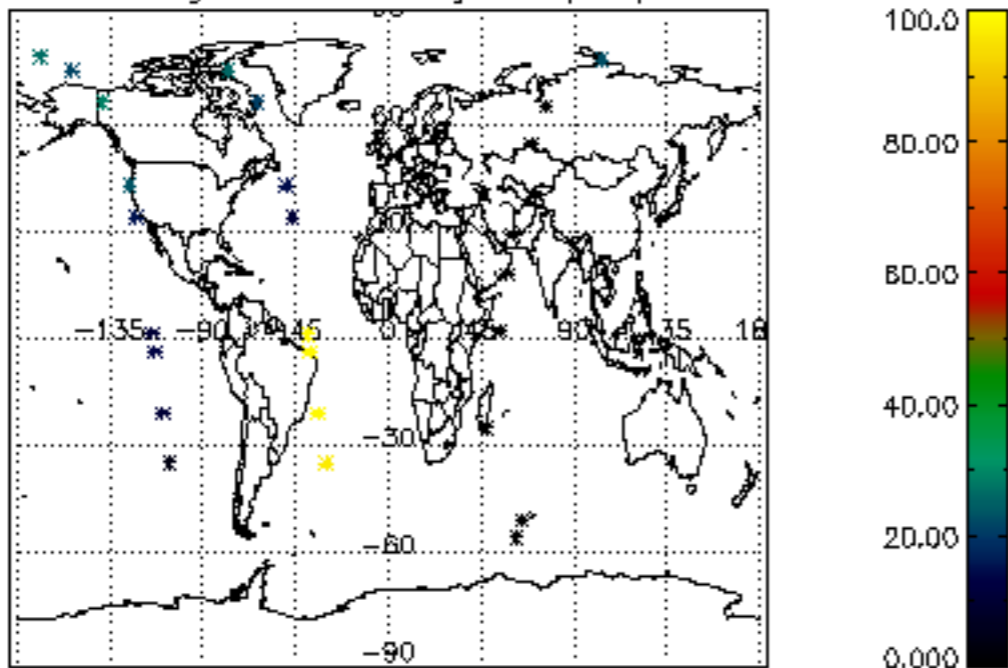
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	16-SEP-2006 00:24:59
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20060904_154109_20060902_000000_20100101_000000	1	16-SEP-2006 00:24:59
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	16-SEP-2006 00:24:59
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	16-SEP-2006 00:24:59
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	16-SEP-2006 00:24:59
ECMWF_FILE	AUX_ECF_AXNECM20060915_062945_20060915_210000_20060916_090000	1	16-SEP-2006 00:24:59
ECMWF_FILE	AUX_ECF_AXNECM20060915_182459_20060916_030000_20060916_150000	9	16-SEP-2006 05:00:31
OPTIONAL_ECMWF_FILE	MISSING	1	16-SEP-2006 00:24:59
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060915_223953_000057382051_00158_23759_0566.N1	1	16-SEP-2006 00:24:59
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20060916_045149_000057382051_00162_23763_0570.N1	9	16-SEP-2006 05:00:31



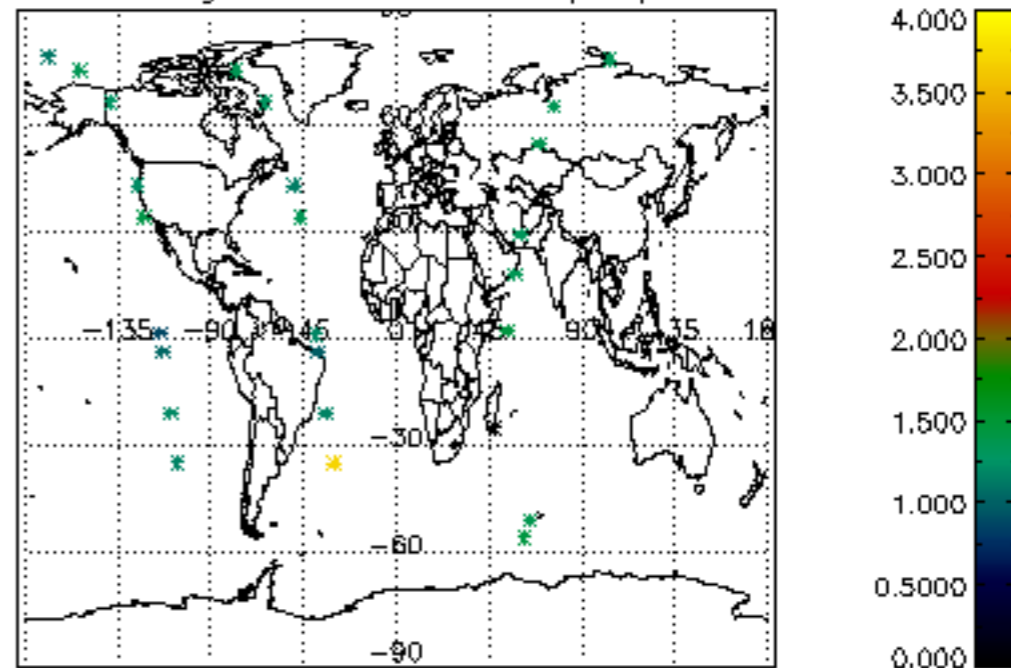




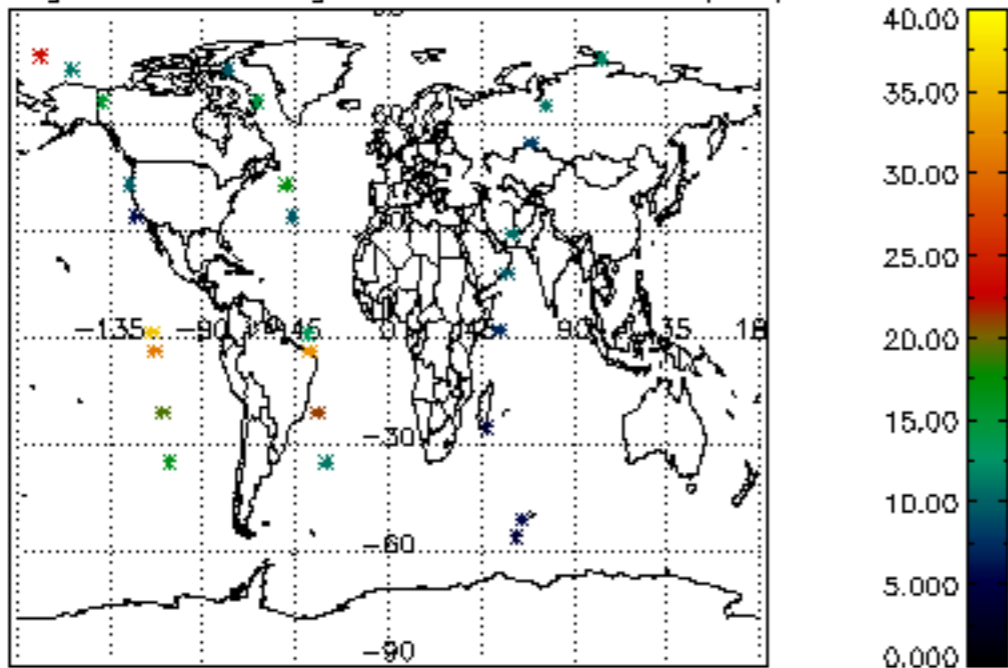
Percentage of cosmic ray hits per profile



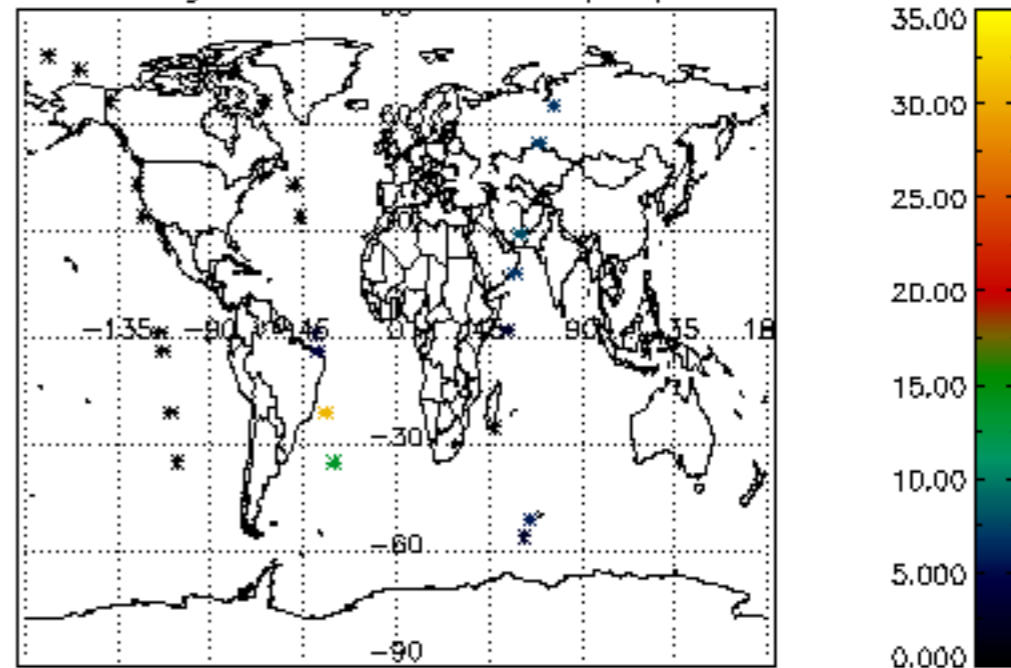
Percentage of datation errors per profile



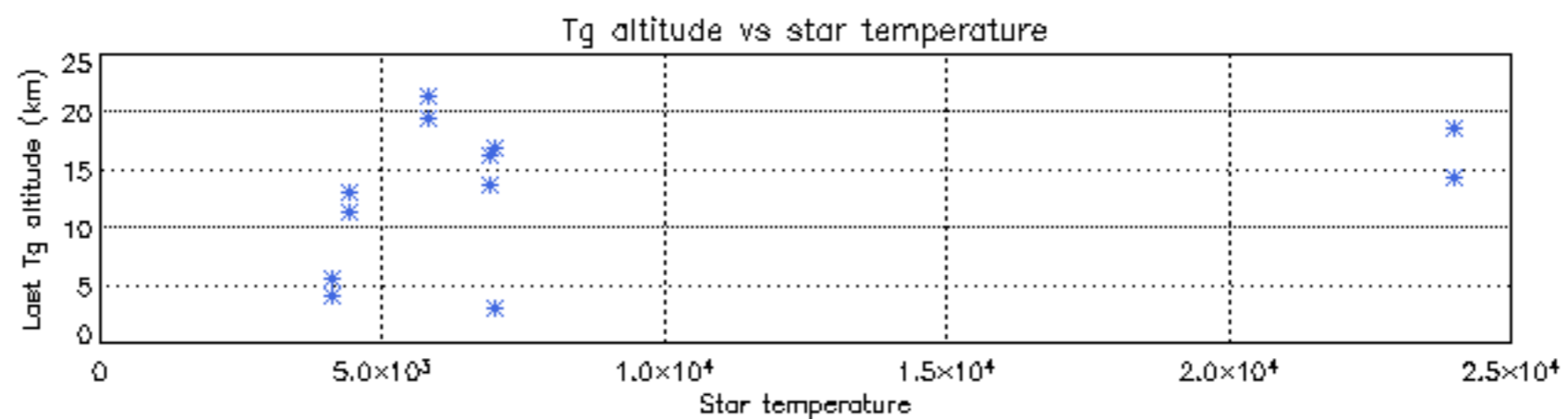
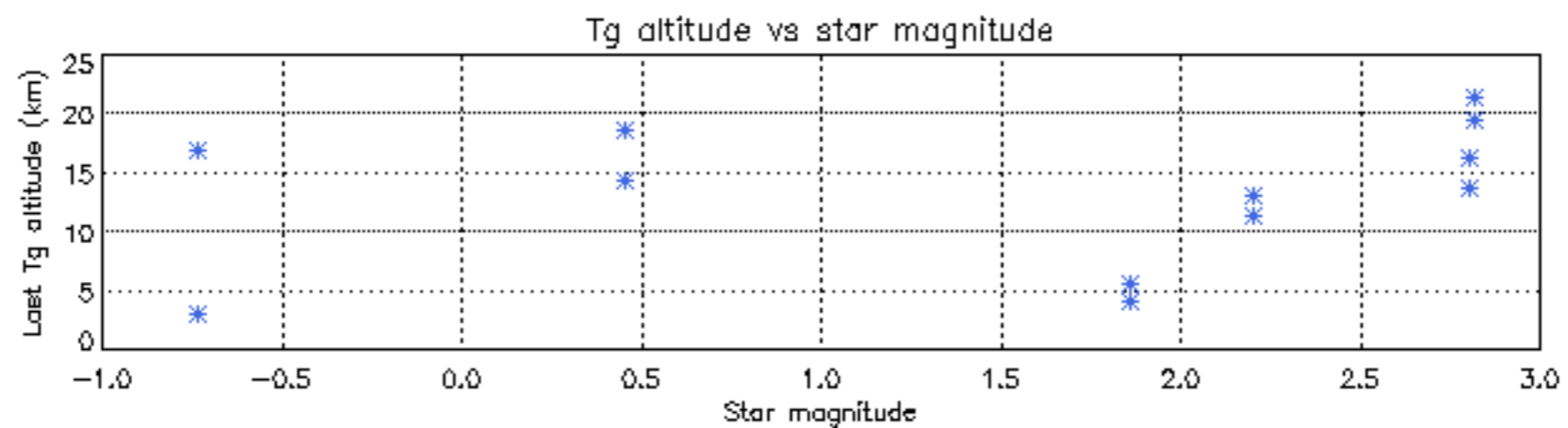
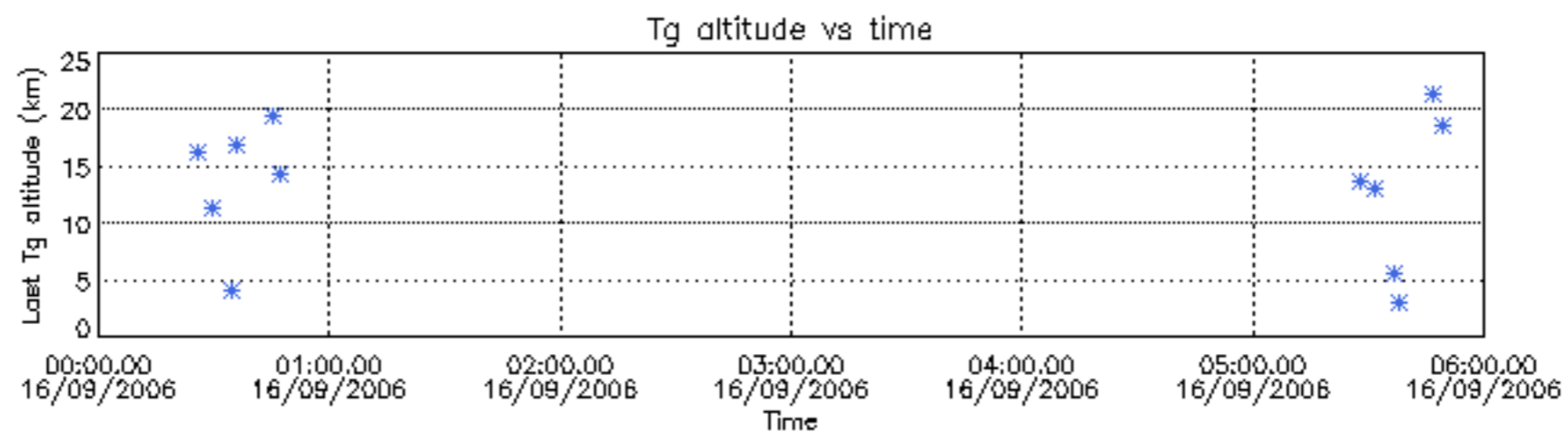
Percentage of star falling outside central band per profile



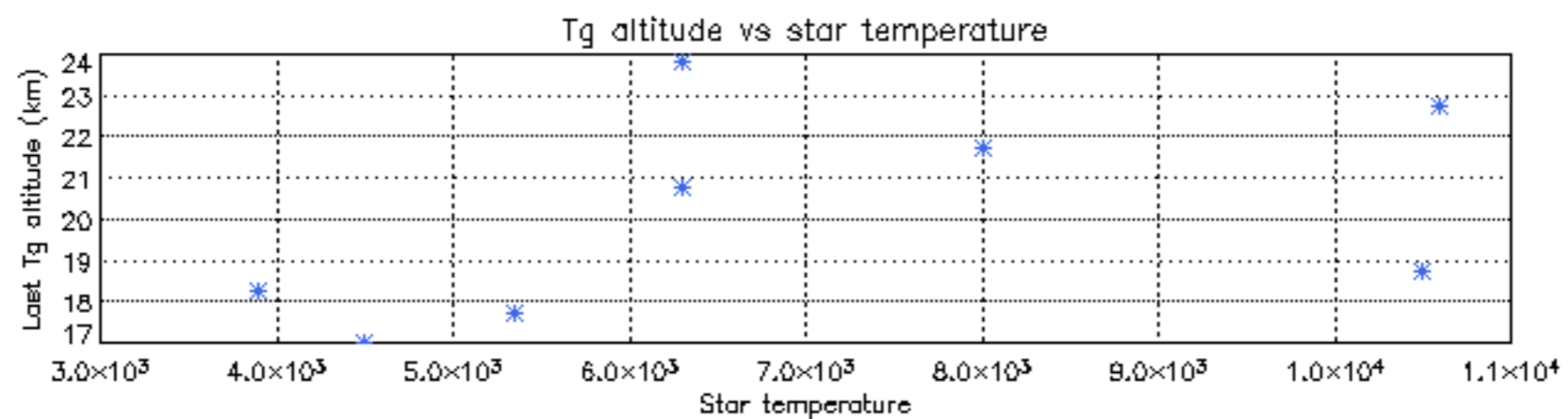
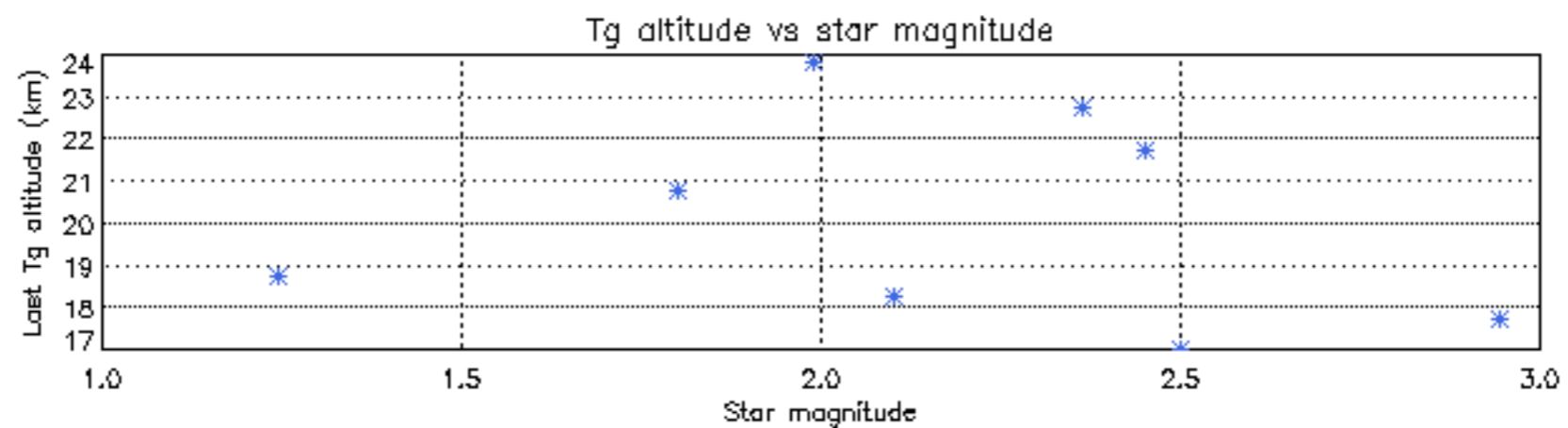
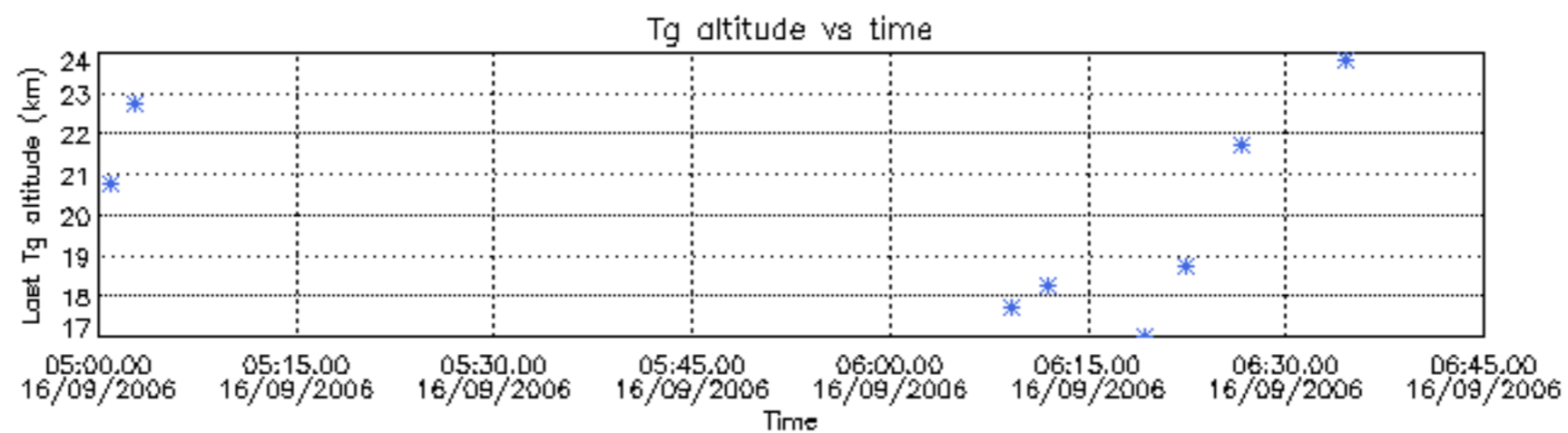
Percentage of saturation errors per profile



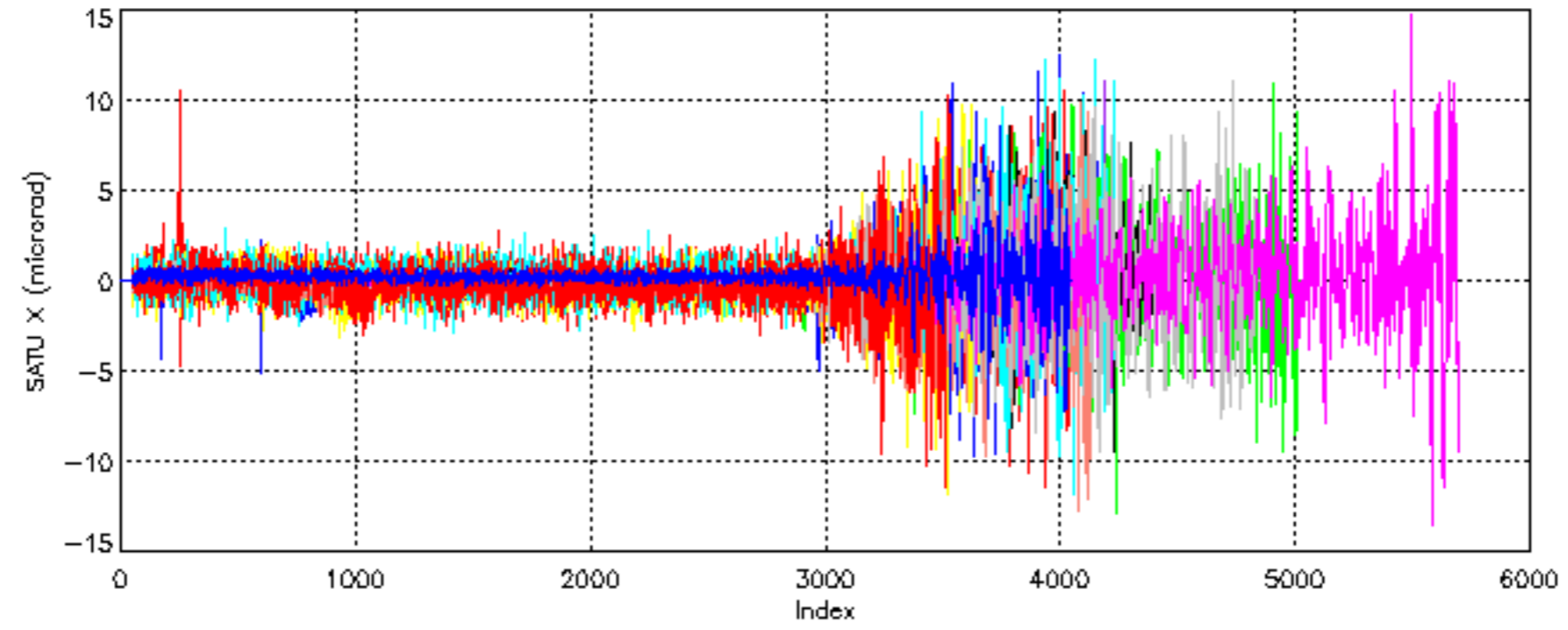
Tangent altitude at which the star is lost

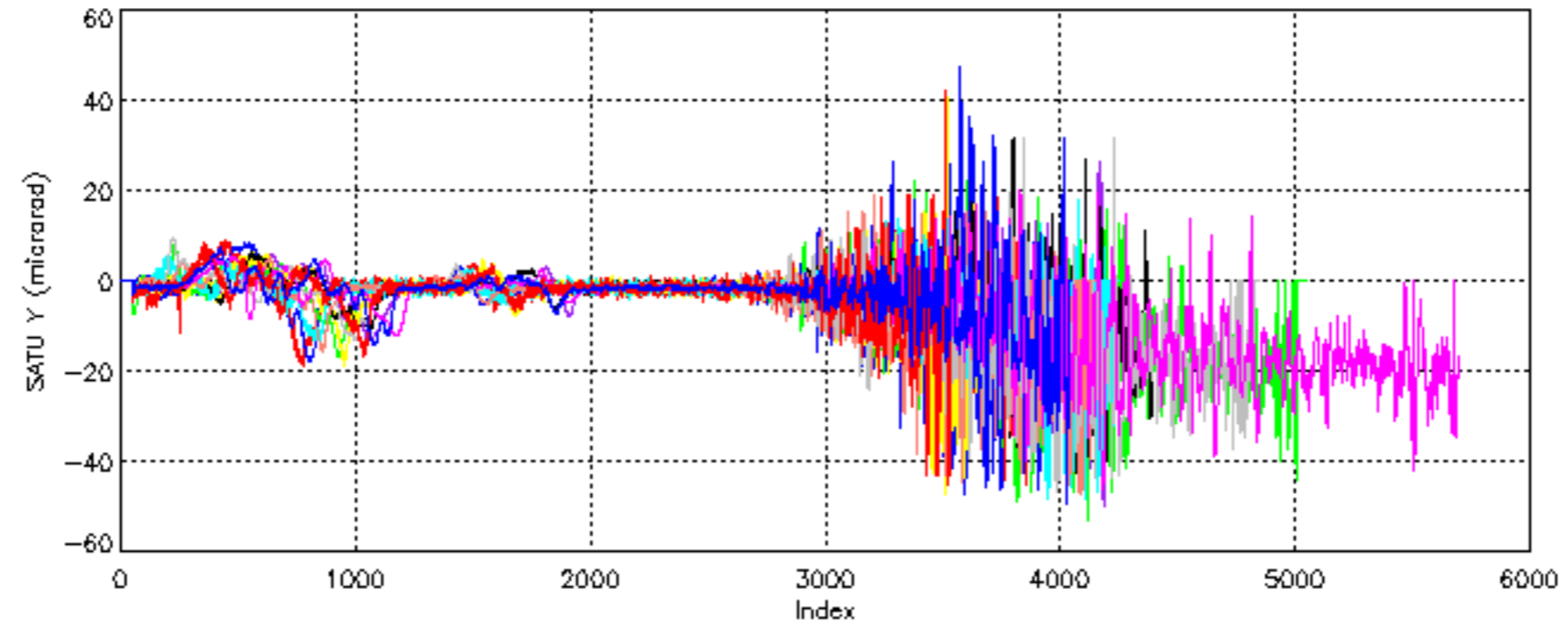


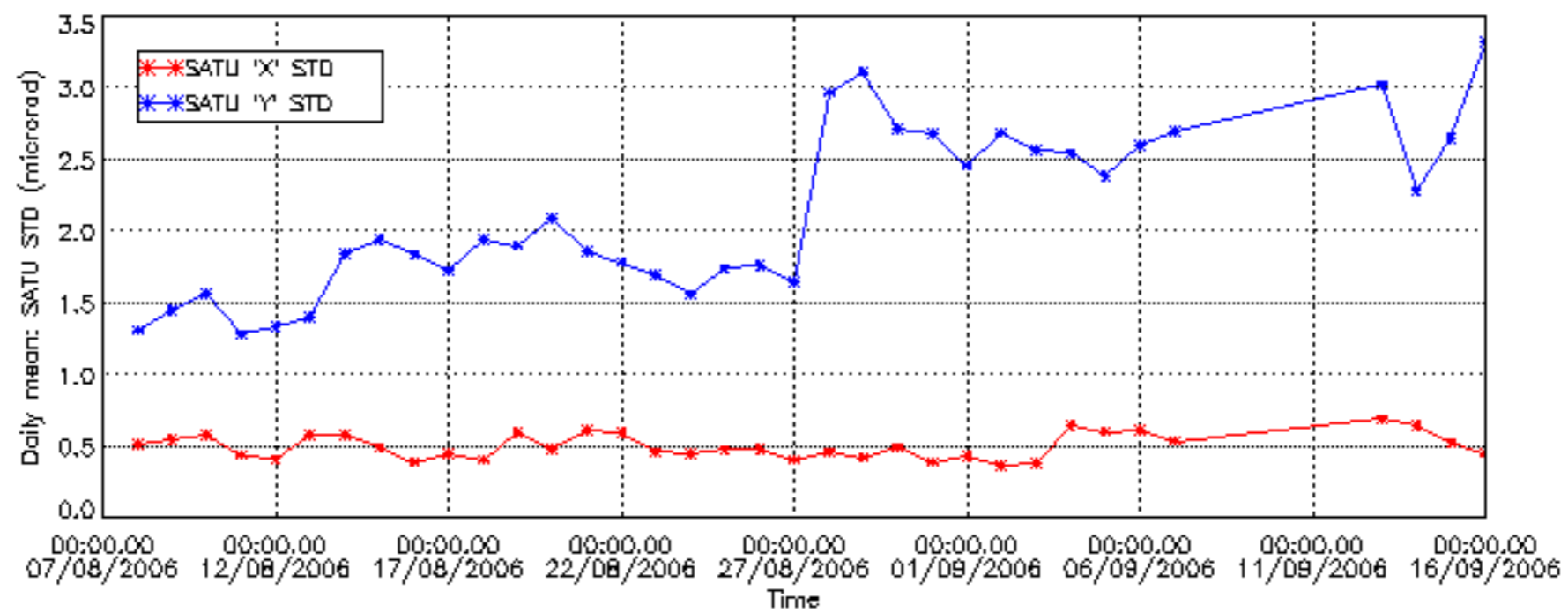
Tangent altitude at which the star is lost











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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20060901_013538_000041292050_00446_23546_0595.N1
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 2; -497.5; 01-SEP-2006 01:38:24; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;23546
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