

GOMOS Daily Report 16-OCT-2009

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

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

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

[3. Plot of Spectrometers and Photometers temperatures](#)

[4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

[5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

[6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

[7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

[Level 2 products](#)

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	19OCT2009 04:41:10
Data source version	GOMOS/5.00L03
Start time of products	16OCT2009 00:22:46
Stop time of products	16OCT2009 23:54:30
Store outputs in DB	Yes
Nb of level 1b prods	62
Nb of prods with errors	0

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

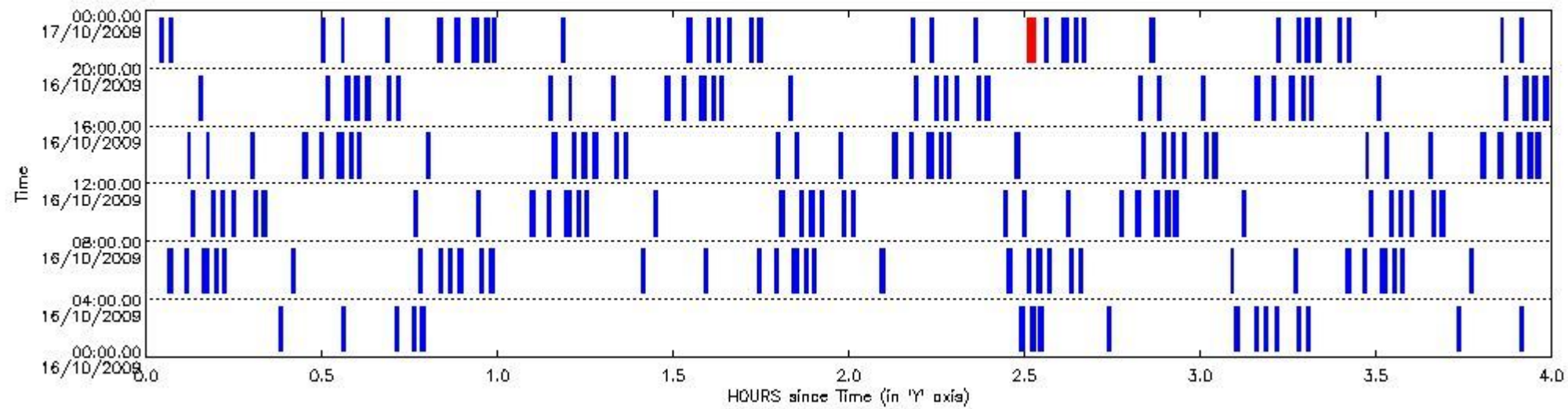
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



2.3 Summary of missing occultations (red segments in previous plot)

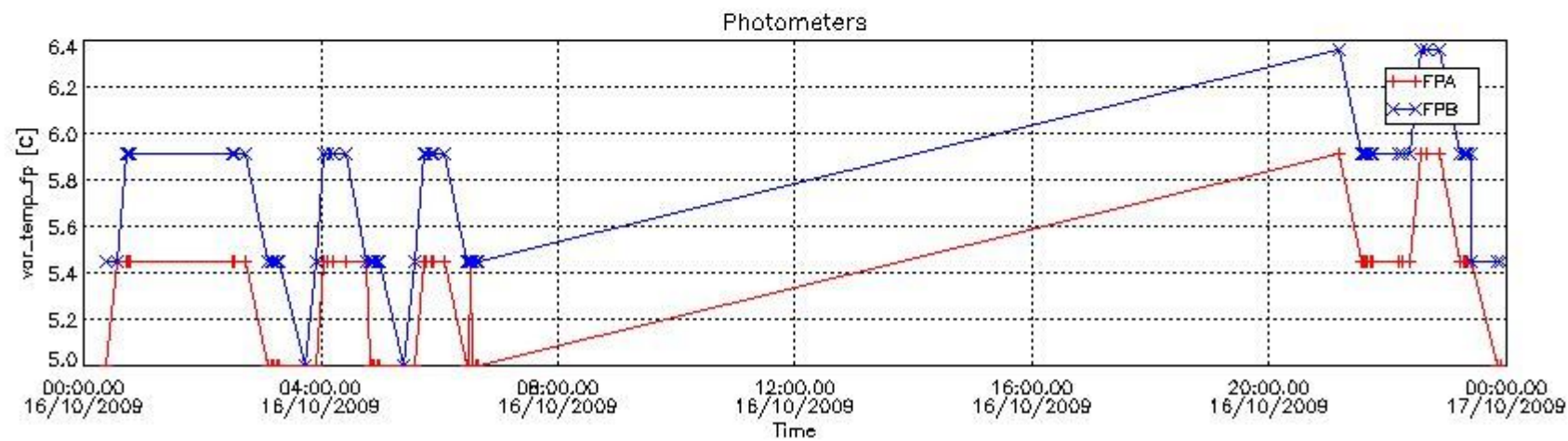
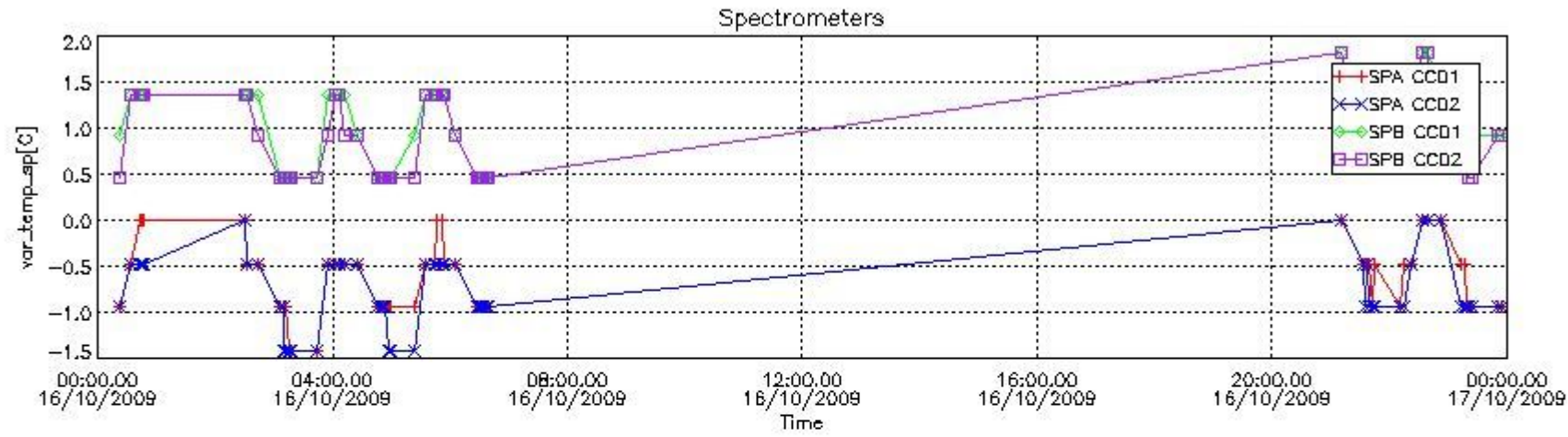
UTC start time	Star name	Star ID	Orbit
16-OCT-2009 22:30:33	15RhoPup	132	39891

2.4 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_1PNPDE20091016_002246_000000292083_00245_39878_1102.N1	16-OCT-2009 00:22:46	Twilight_stray	29.000	166	17Eps Leo	2.9800	6000.0	58	39878	No
2	GOM_TRA_1PNPDE20091016_003326_000000332083_00245_39878_1103.N1	16-OCT-2009 00:33:26	Dark	33.000	48	30Alp Hya	1.9770	4100.0	66	39878	No
3	GOM_TRA_1PNPDE20091016_004223_000000452083_00245_39878_1094.N1	16-OCT-2009 00:42:23	Dark	45.000	132	15Rho Pup	2.8030	6900.0	90	39878	No
4	GOM_TRA_1PNPDE20091016_004520_000000382083_00245_39878_1095.N1	16-OCT-2009 00:45:20	Dark	38.000	70	Zet Pup	2.2460	39000.0	76	39878	No
5	GOM_TRA_1PNPDE20091016_004653_000000502083_00246_39879_1096.N1	16-OCT-2009 00:46:53	Dark	49.500	88	31Eta CMa	2.4480	20000.0	99	39879	No
6	GOM_TRA_1PNPDE20091016_023103_000000382083_00247_39880_1098.N1	16-OCT-2009 02:31:03	Dark	37.500	161	Tau Pup	2.9310	4500.0	75	39880	No
7	GOM_TRA_1PNPDE20091016_023224_000000382083_00247_39880_1099.N1	16-OCT-2009 02:32:24	Dark	37.500	2	Alp Car	-0.73600	7000.0	75	39880	No
8	GOM_TRA_1PNPDE20091016_024410_000000362083_00247_39880_1100.N1	16-OCT-2009 02:44:10	Straylight	35.500	157	The1Eri	2.9060	9300.0	71	39880	No
9	GOM_TRA_1PNPDE20091016_030550_000000402083_00247_39880_1101.N1	16-OCT-2009 03:05:50	Bright	40.000	105	6Bet Ari	2.6450	8900.0	80	39880	No
10	GOM_TRA_1PNPDE20091016_030916_000000352083_00247_39880_1102.N1	16-OCT-2009 03:09:16	Bright	34.500	53	43Bet And	2.0480	3300.0	69	39880	No

11	GOM_TRA_1PNPDE20091016_031052_000000412083_00247_39880_1103.N1	16-OCT-2009 03:10:52	Bright	41.000	173	4Bet Tri	3.0040	8900.0	82	39880	No
12	GOM_TRA_1PNPDE20091016_031244_000000392083_00247_39880_1104.N1	16-OCT-2009 03:12:44	Bright	39.000	73	57Gam1And	2.2600	13100.	78	39880	No
13	GOM_TRA_1PNPDE20091016_031629_000000332083_00247_39880_1105.N1	16-OCT-2009 03:16:29	Bright	33.000	110	37Del Cas	2.6780	8900.0	66	39880	No
14	GOM_TRA_1PNPDE20091016_031802_000000402083_00247_39880_1106.N1	16-OCT-2009 03:18:02	Bright	39.500	160	23Gam Per	2.9300	4700.0	79	39880	No
15	GOM_TRA_1PNPDE20091016_034358_000000302083_00247_39880_1101.N1	16-OCT-2009 03:43:58	Tw_i_and_stray	29.500	166	17Eps Leo	2.9800	6000.0	59	39880	No
16	GOM_TRA_1PNPDE20091016_035440_000000342083_00247_39880_1102.N1	16-OCT-2009 03:54:40	Dark	33.500	48	30Alp Hya	1.9770	4100.0	67	39880	No
17	GOM_TRA_1PNPDE20091016_040337_000000452083_00247_39880_1103.N1	16-OCT-2009 04:03:37	Dark	44.500	132	15Rho Pup	2.8030	6900.0	89	39880	No
18	GOM_TRA_1PNPDE20091016_040634_000000382083_00247_39880_1104.N1	16-OCT-2009 04:06:34	Dark	38.000	70	Zet Pup	2.2460	39000.	76	39880	No
19	GOM_TRA_1PNPDE20091016_041140_000000372083_00248_39881_1105.N1	16-OCT-2009 04:11:40	Dark	37.000	161	Tau Pup	2.9310	4500.0	74	39881	No
20	GOM_TRA_1PNPDE20091016_041301_000000372083_00248_39881_1106.N1	16-OCT-2009 04:13:01	Dark	37.000	2	Alp Car	-0.73600	7000.0	74	39881	No
21	GOM_TRA_1PNPDE20091016_042446_000000362083_00248_39881_1107.N1	16-OCT-2009 04:24:46	Straylight	35.500	157	The1Eri	2.9060	9300.0	71	39881	No
22	GOM_TRA_1PNPDE20091016_044626_000000402083_00248_39881_1108.N1	16-OCT-2009 04:46:26	Bright	40.000	105	6Bet Ari	2.6450	8900.0	80	39881	No
23	GOM_TRA_1PNPDE20091016_044952_000000352083_00248_39881_1109.N1	16-OCT-2009 04:49:52	Bright	34.500	53	43Bet And	2.0480	3300.0	69	39881	No
24	GOM_TRA_1PNPDE20091016_045128_000000412083_00248_39881_1110.N1	16-OCT-2009 04:51:28	Bright	41.000	173	4Bet Tri	3.0040	8900.0	82	39881	No
25	GOM_TRA_1PNPDE20091016_045320_000000392083_00248_39881_1111.N1	16-OCT-2009 04:53:20	Bright	39.000	73	57Gam1And	2.2600	13100.	78	39881	No
26	GOM_TRA_1PNPDE20091016_045704_000000332083_00248_39881_1112.N1	16-OCT-2009 04:57:04	Bright	33.000	110	37Del Cas	2.6780	8900.0	66	39881	No
27	GOM_TRA_1PNPDE20091016_045837_000000402083_00248_39881_1113.N1	16-OCT-2009 04:58:37	Bright	39.500	160	23Gam Per	2.9300	4700.0	79	39881	No
28	GOM_TRA_1PNPDE20091016_052434_000000302083_00248_39881_1104.N1	16-OCT-2009 05:24:34	Tw_i_and_stray	29.500	166	17Eps Leo	2.9800	6000.0	59	39881	No
29	GOM_TRA_1PNPDE20091016_053517_000000342083_00248_39881_1105.N1	16-OCT-2009 05:35:17	Dark	33.500	48	30Alp Hya	1.9770	4100.0	67	39881	No
30	GOM_TRA_1PNPDE20091016_054415_000000452083_00248_39881_1106.N1	16-OCT-2009 05:44:15	Dark	45.000	132	15Rho Pup	2.8030	6900.0	90	39881	No
31	GOM_TRA_1PNPDE20091016_054711_000000382083_00248_39881_1107.N1	16-OCT-2009 05:47:11	Dark	38.000	70	Zet Pup	2.2460	39000.	76	39881	No
32	GOM_TRA_1PNPDE20091016_055217_000000372083_00249_39882_1108.N1	16-OCT-2009 05:52:17	Dark	37.000	161	Tau Pup	2.9310	4500.0	74	39882	No
33	GOM_TRA_1PNPDE20091016_055337_000000382083_00249_39882_1109.N1	16-OCT-2009 05:53:37	Dark	37.500	2	Alp Car	-0.73600	7000.0	75	39882	No
34	GOM_TRA_1PNPDE20091016_060522_000000362083_00249_39882_1110.N1	16-OCT-2009 06:05:22	Straylight	35.500	157	The1Eri	2.9060	9300.0	71	39882	No
35	GOM_TRA_1PNPDE20091016_062701_000000402083_00249_39882_1111.N1	16-OCT-2009 06:27:01	Bright	40.000	105	6Bet Ari	2.6450	8900.0	80	39882	No
36	GOM_TRA_1PNPDE20091016_063027_000000352083_00249_39882_1112.N1	16-OCT-2009 06:30:27	Bright	35.000	53	43Bet And	2.0480	3300.0	70	39882	No
37	GOM_TRA_1PNPDE20091016_063203_000000412083_00249_39882_1113.N1	16-OCT-2009 06:32:03	Bright	41.000	173	4Bet Tri	3.0040	8900.0	82	39882	No
38	GOM_TRA_1PNPDE20091016_063355_000000392083_00249_39882_1114.N1	16-OCT-2009 06:33:55	Bright	39.000	73	57Gam1And	2.2600	13100.	78	39882	No
39	GOM_TRA_1PNPDE20091016_063740_000000342083_00249_39882_1115.N1	16-OCT-2009 06:37:40	Bright	33.500	110	37Del Cas	2.6780	8900.0	67	39882	No
40	GOM_TRA_1PNPDE20091016_063912_000000402083_00249_39882_1116.N1	16-OCT-2009 06:39:12	Bright	39.500	160	23Gam Per	2.9300	4700.0	79	39882	No
41	GOM_TRA_1PNPDE20091016_211050_000000362083_00258_39891_1137.N1	16-OCT-2009 21:10:50	Straylight	35.500	157	The1Eri	2.9060	9300.0	71	39891	No
42	GOM_TRA_1PNPDE20091016_213220_000000402083_00258_39891_1138.N1	16-OCT-2009 21:32:20	Bright	39.500	105	6Bet Ari	2.6450	8900.0	79	39891	No
43	GOM_TRA_1PNPDE20091016_213548_000000352083_00258_39891_1139.N1	16-OCT-2009 21:35:48	Bright	35.000	53	43Bet And	2.0480	3300.0	70	39891	No
44	GOM_TRA_1PNPDE20091016_213720_000000412083_00258_39891_1140.N1	16-OCT-2009 21:37:20	Bright	41.000	173	4Bet Tri	3.0040	8900.0	82	39891	No
45	GOM_TRA_1PNPDE20091016_213913_000000392083_00258_39891_1141.N1	16-OCT-2009 21:39:13	Bright	38.500	73	57Gam1And	2.2600	13100.	77	39891	No
46	GOM_TRA_1PNPDE20091016_214301_000000332083_00258_39891_1142.N1	16-OCT-2009 21:43:01	Bright	33.000	110	37Del Cas	2.6780	8900.0	66	39891	No
47	GOM_TRA_1PNPDE20091016_214429_000000402083_00258_39891_1143.N1	16-OCT-2009 21:44:29	Bright	40.000	160	23Gam Per	2.9300	4700.0	80	39891	No
48	GOM_TRA_1PNPDE20091016_221036_000000302083_00258_39891_1144.N1	16-OCT-2009 22:10:36	Tw_i_and_stray	29.500	166	17Eps Leo	2.9800	6000.0	59	39891	No
49	GOM_TRA_1PNPDE20091016_221354_000000292083_00258_39891_1145.N1	16-OCT-2009 22:13:54	Bright	28.500	22	32Alp Leo	1.3600	15200.	57	39891	No
50	GOM_TRA_1PNPDE20091016_222123_000000342083_00258_39891_1144.N1	16-OCT-2009 22:21:23	Dark	33.500	48	30Alp Hya	1.9770	4100.0	67	39891	No
51	GOM_TRA_1PNPDE20091016_223320_000000382083_00258_39891_1145.N1	16-OCT-2009 22:33:20	Dark	38.000	70	Zet Pup	2.2460	39000.	76	39891	No
52	GOM_TRA_1PNPDE20091016_223825_000000382083_00259_39892_1146.N1	16-OCT-2009 22:38:25	Dark	37.500	161	Tau Pup	2.9310	4500.0	75	39892	No
53	GOM_TRA_1PNPDE20091016_223945_000000372083_00259_39892_1147.N1	16-OCT-2009 22:39:45	Dark	37.000	2	Alp Car	-0.73600	7000.0	74	39892	No
54	GOM_TRA_1PNPDE20091016_225127_000000352083_00259_39892_1148.N1	16-OCT-2009 22:51:27	Straylight	35.000	157	The1Eri	2.9060	9300.0	70	39892	No
55	GOM_TRA_1PNPDE20091016_231255_000000402083_00259_39892_1149.N1	16-OCT-2009 23:12:55	Bright	39.500	105	6Bet Ari	2.6450	8900.0	79	39892	No
56	GOM_TRA_1PNPDE20091016_231623_000000352083_00259_39892_1150.N1	16-OCT-2009 23:16:23	Bright	34.500	53	43Bet And	2.0480	3300.0	69	39892	No
57	GOM_TRA_1PNPDE20091016_231756_000000412083_00259_39892_1151.N1	16-OCT-2009 23:17:56	Bright	40.500	173	4Bet Tri	3.0040	8900.0	81	39892	No
58	GOM_TRA_1PNPDE20091016_231948_000000392083_00259_39892_1152.N1	16-OCT-2009 23:19:48	Bright	39.000	73	57Gam1And	2.2600	13100.	78	39892	No
59	GOM_TRA_1PNPDE20091016_232336_000000332083_00259_39892_1153.N1	16-OCT-2009 23:23:36	Bright	33.000	110	37Del Cas	2.6780	8900.0	66	39892	No
60	GOM_TRA_1PNPDE20091016_232504_000000402083_00259_39892_1154.N1	16-OCT-2009 23:25:04	Bright	40.000	160	23Gam Per	2.9300	4700.0	80	39892	No
61	GOM_TRA_1PNPDE20091016_235113_000000302083_00259_39892_1155.N1	16-OCT-2009 23:51:13	Tw_i_and_stray	29.500	166	17Eps Leo	2.9800	6000.0	59	39892	No
62	GOM_TRA_1PNPDE20091016_235430_000000292083_00259_39892_1156.N1	16-OCT-2009 23:54:30	Bright	28.500	22	32Alp Leo	1.3600	15200.	57	39892	No

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



4. Overview of dark signal processing per product

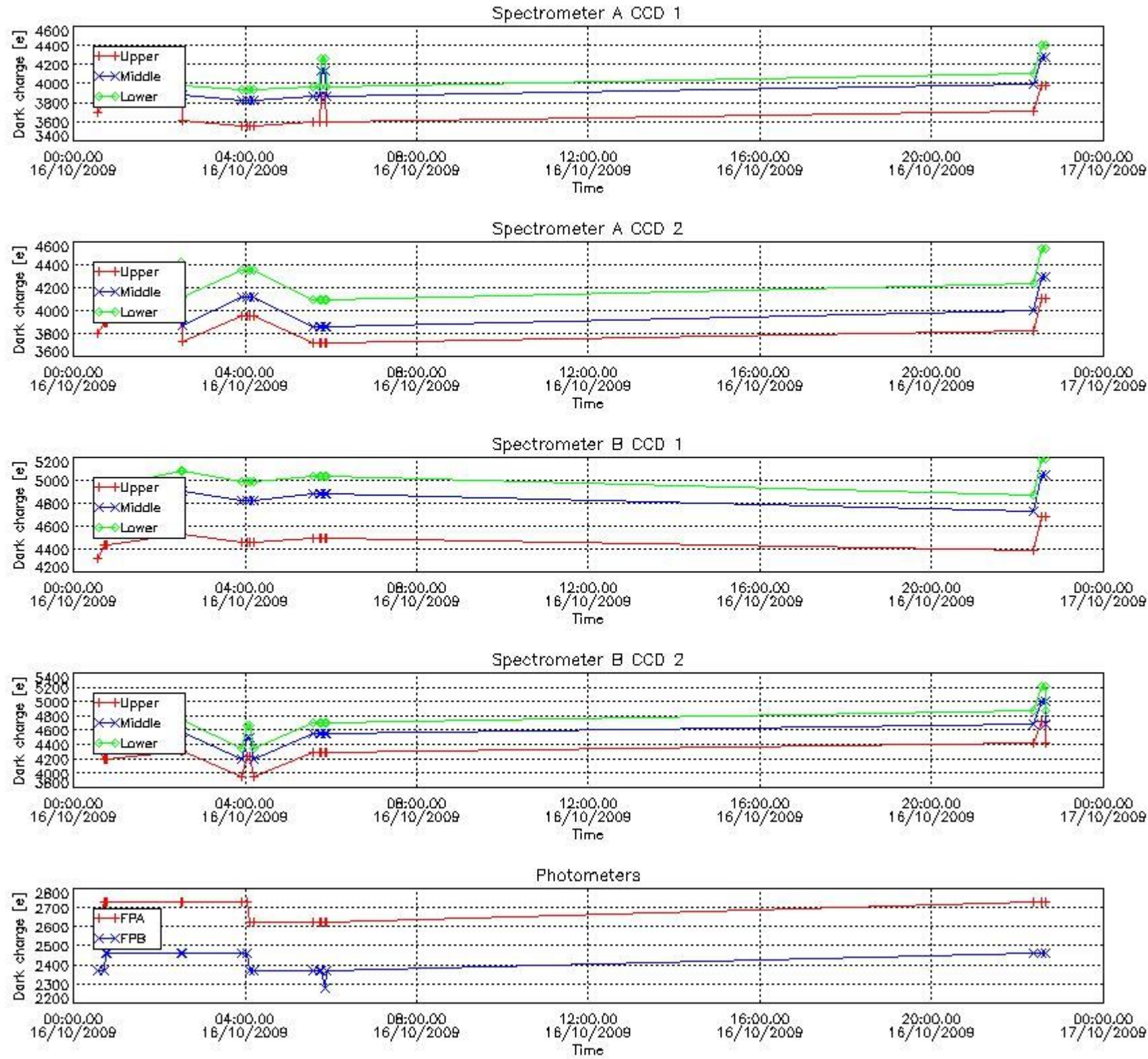
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20091016_004223_000000452083_00245_39878_1094.N1	DC map used
GOM_TRA_1PNPDE20091016_004520_000000382083_00245_39878_1095.N1	DC map used
GOM_TRA_1PNPDE20091016_004653_000000502083_00246_39879_1096.N1	DC map used
GOM_TRA_1PNPDE20091016_211050_000000362083_00258_39891_1137.N1	DC map used
GOM_TRA_1PNPDE20091016_213220_000000402083_00258_39891_1138.N1	DC map used
GOM_TRA_1PNPDE20091016_213548_000000352083_00258_39891_1139.N1	DC map used
GOM_TRA_1PNPDE20091016_213720_000000412083_00258_39891_1140.N1	DC map used
GOM_TRA_1PNPDE20091016_213913_000000392083_00258_39891_1141.N1	DC map used
GOM_TRA_1PNPDE20091016_214301_000000332083_00258_39891_1142.N1	DC map used
GOM_TRA_1PNPDE20091016_214429_000000402083_00258_39891_1143.N1	DC map used
GOM_TRA_1PNPDE20091016_221036_000000302083_00258_39891_1144.N1	DC map used
GOM_TRA_1PNPDE20091016_221354_000000292083_00258_39891_1145.N1	DC map used

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



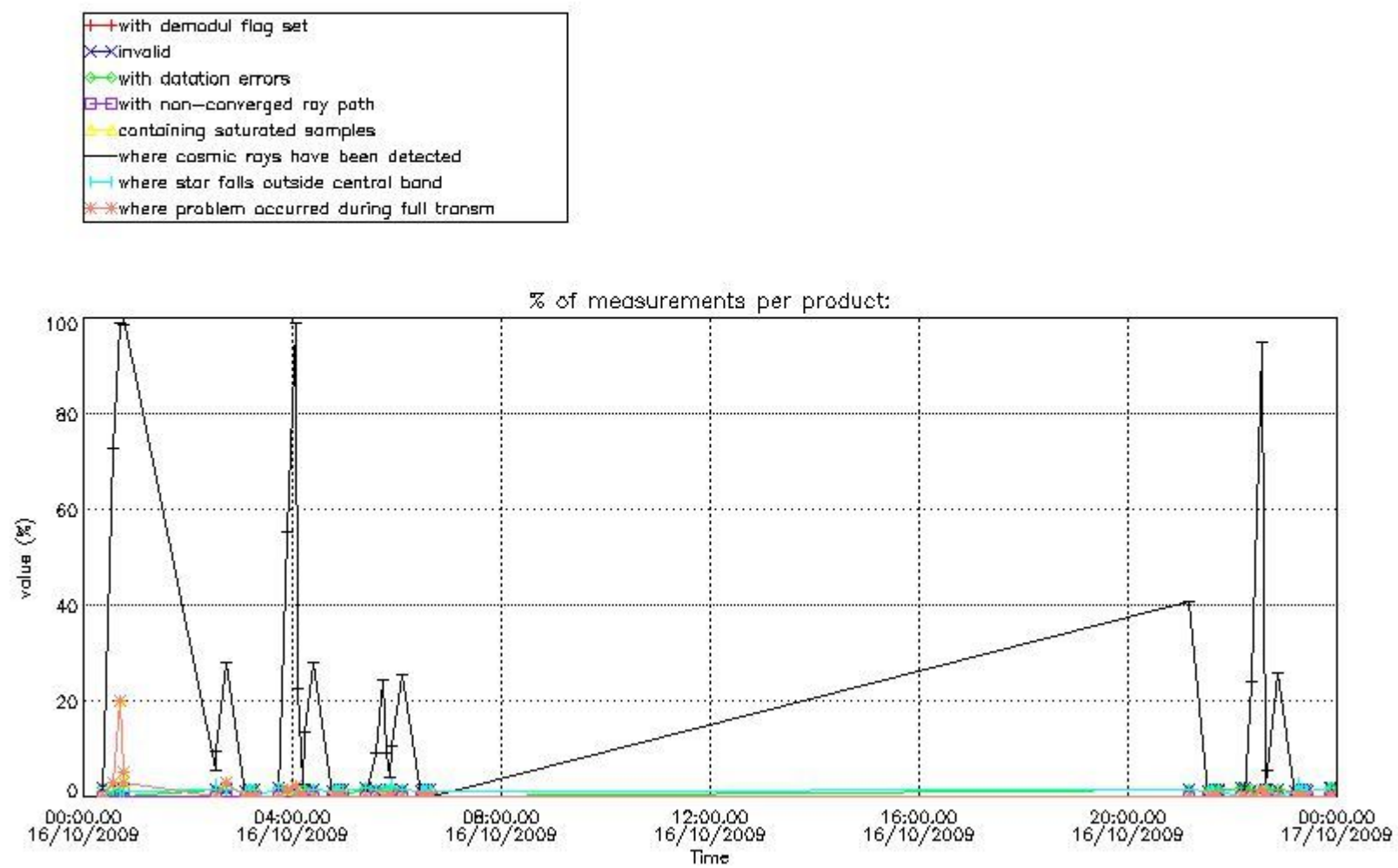
5. Demodulation flag and quality information monitoring

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.

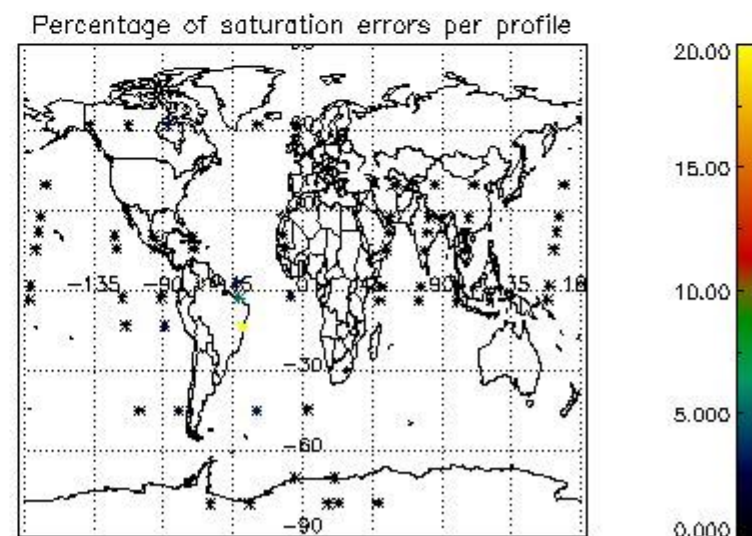
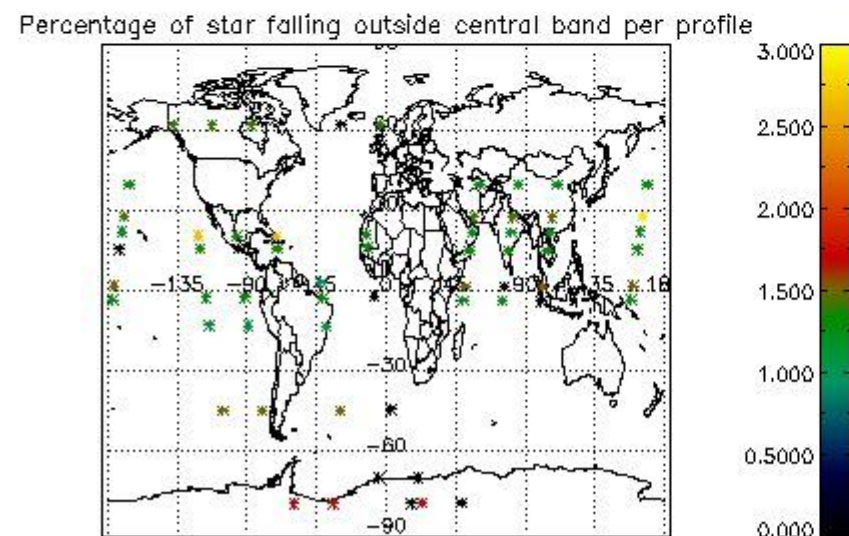
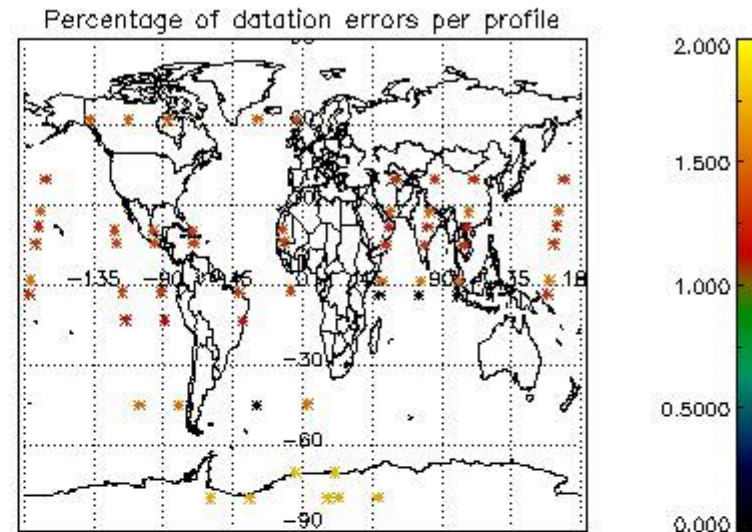
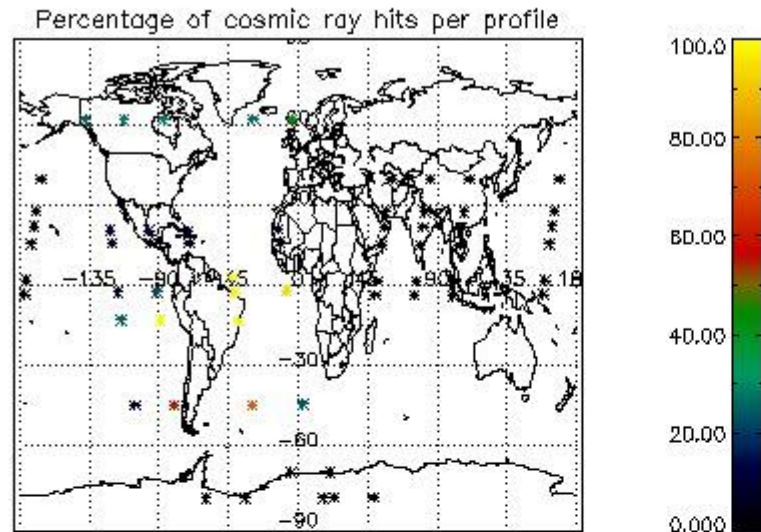
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	30.6452 %
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)



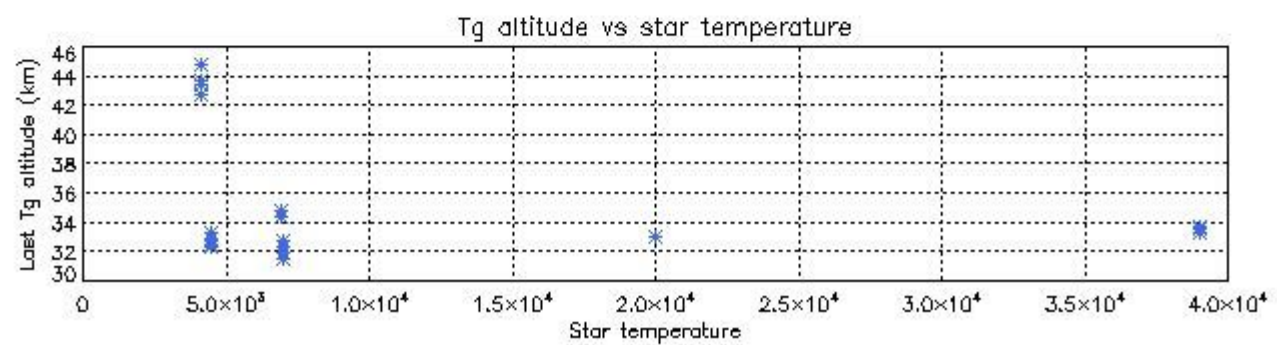
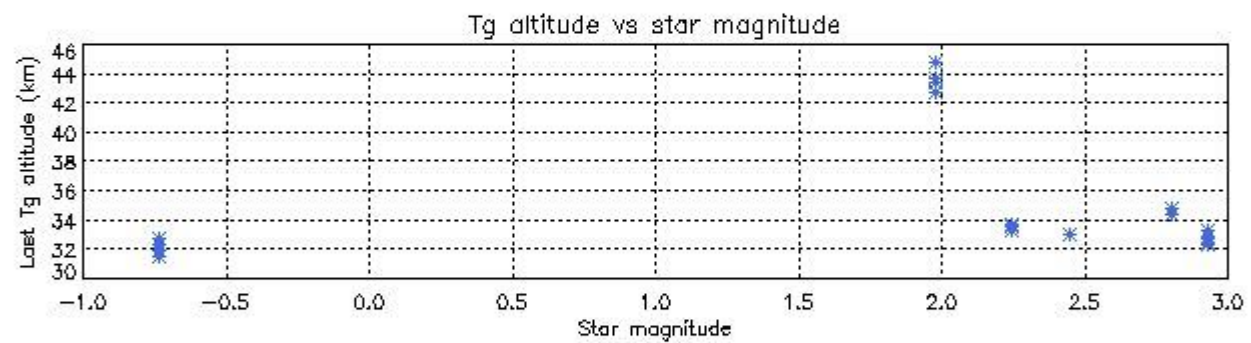
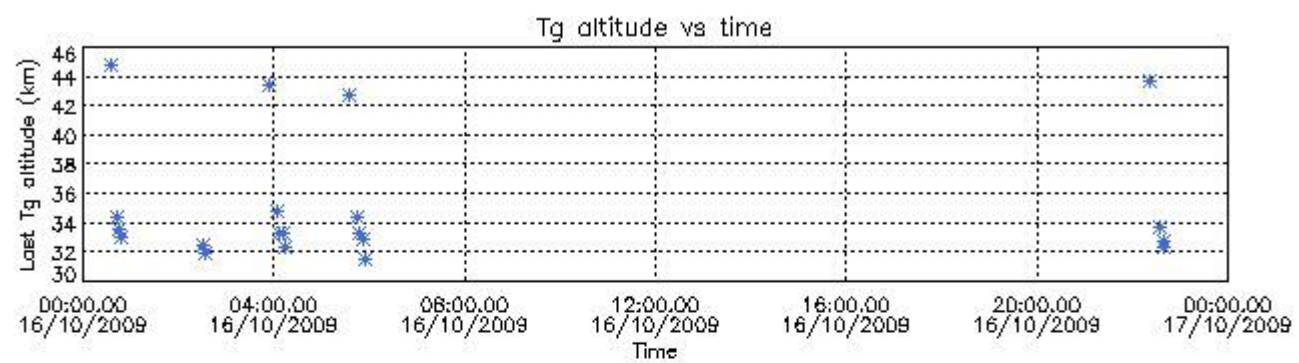
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	35.227	34.984	NaN
St. deviation:	4.3923	4.3587	NaN
Maximum:	44.742	50.717	NaN
Minimum:	31.448	31.934	NaN
Number of data:	20.000	32.000	NaN

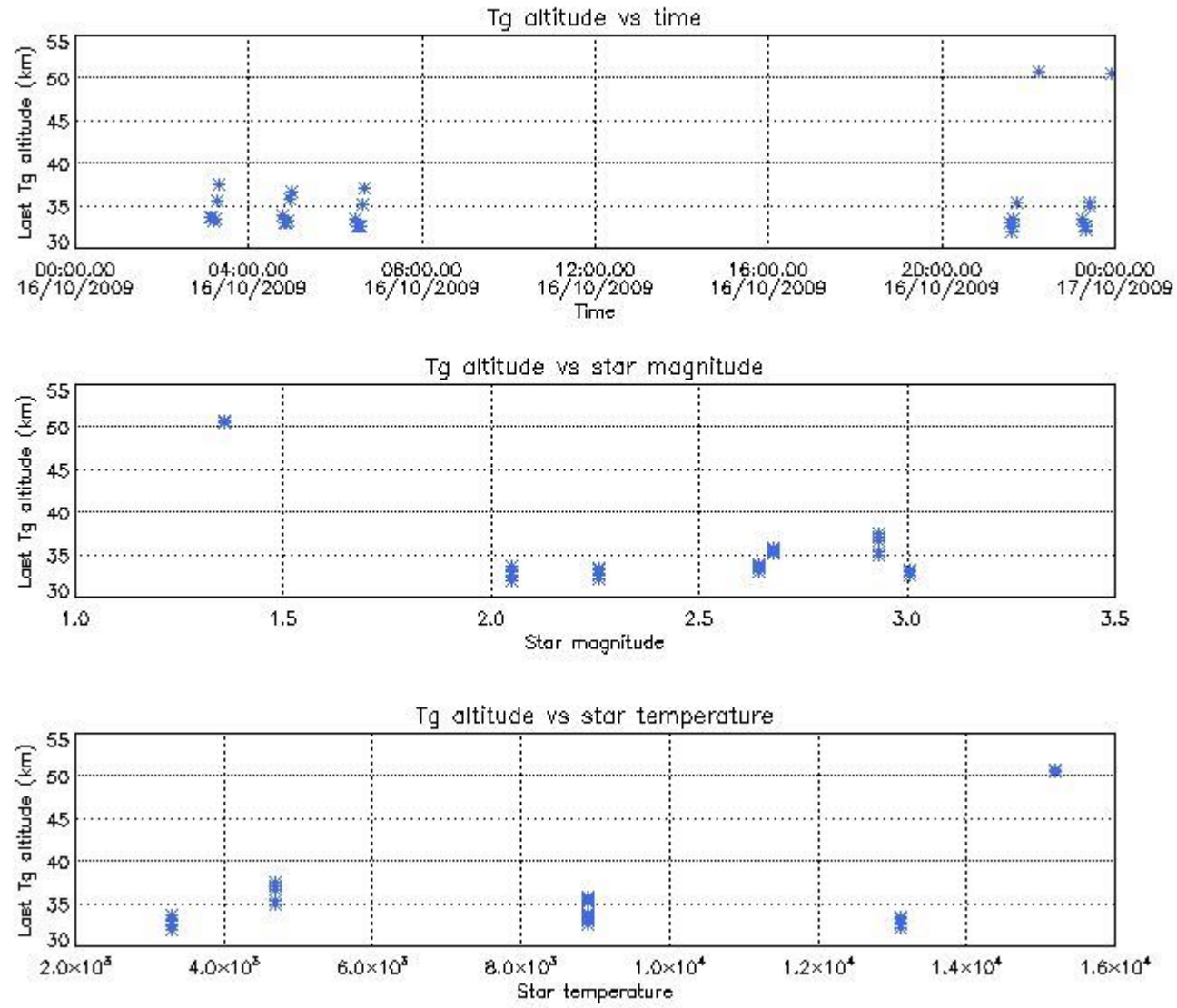
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

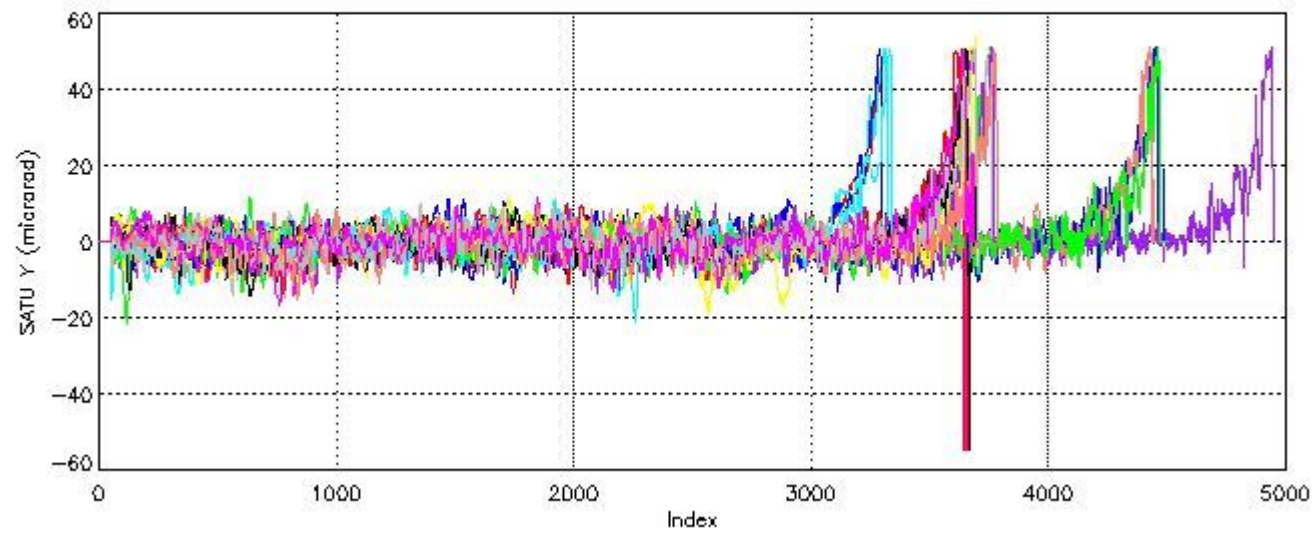
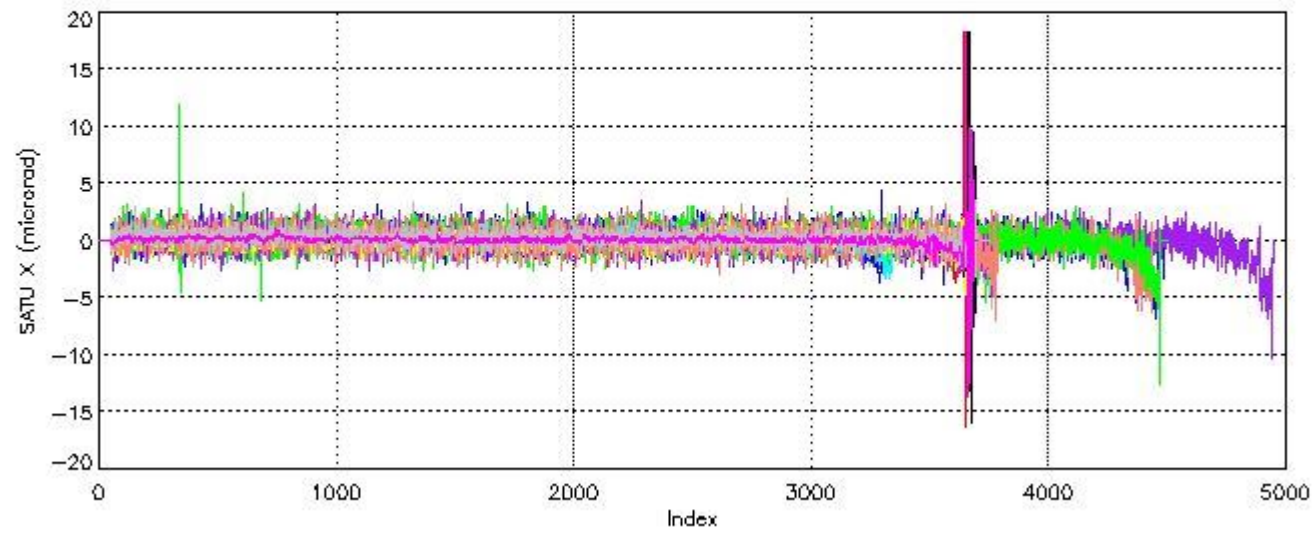


7. Star Acquisition and Tracking Unit (SATU)

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:	0.22701	-1.0682	0.31051	-0.64679
St. deviation:	0.51705	3.4464	0.88788	3.7438
Maximum:	12.000	11.600	6.3000	16.300
Minimum:	-5.3000	-21.500	-5.3000	-20.600

Number of data:	22300.	22300.	34350.	34350.
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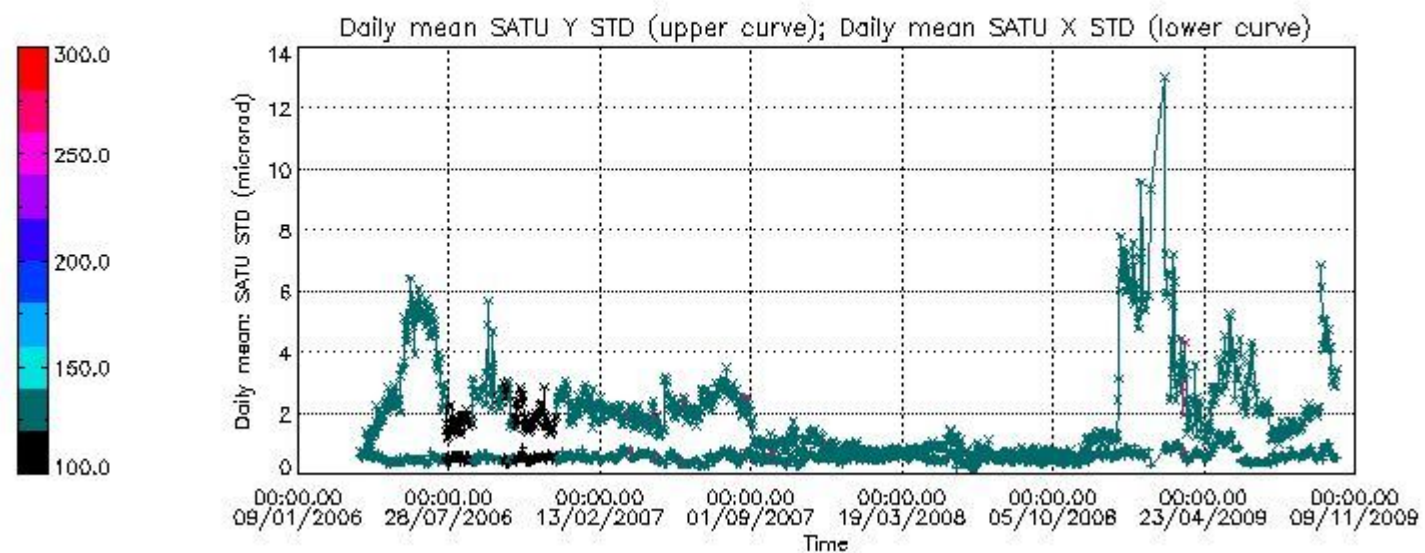
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

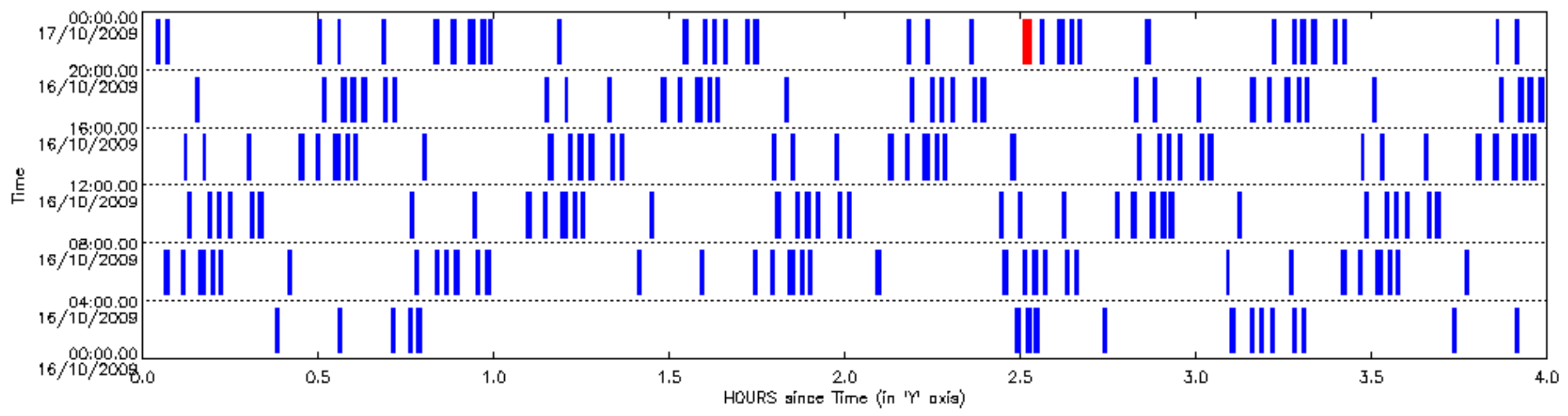
Lower curve: STD of SATU X axis

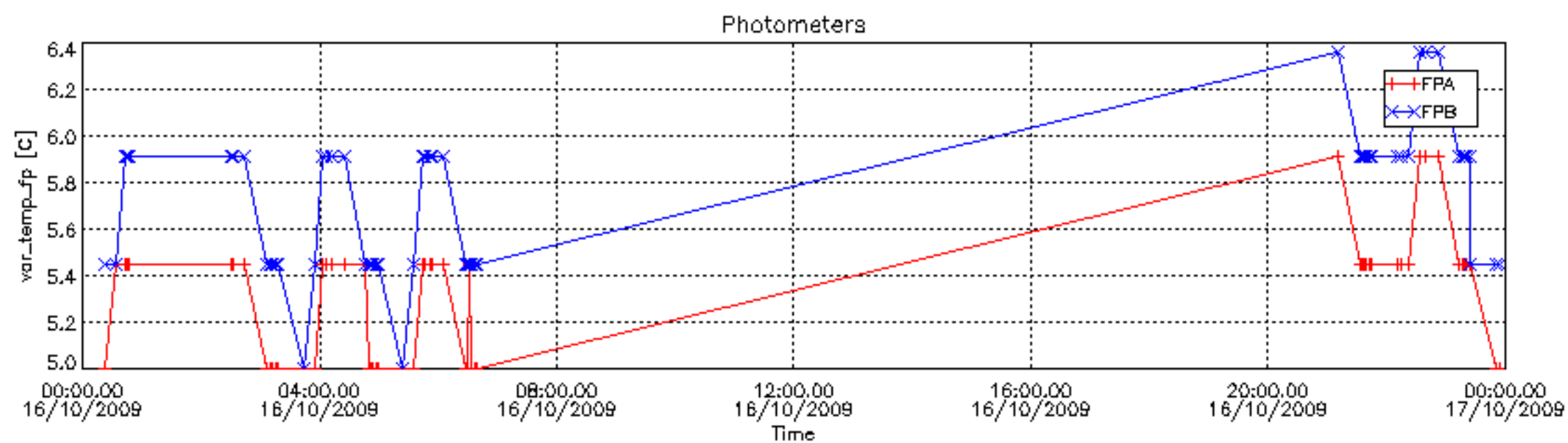
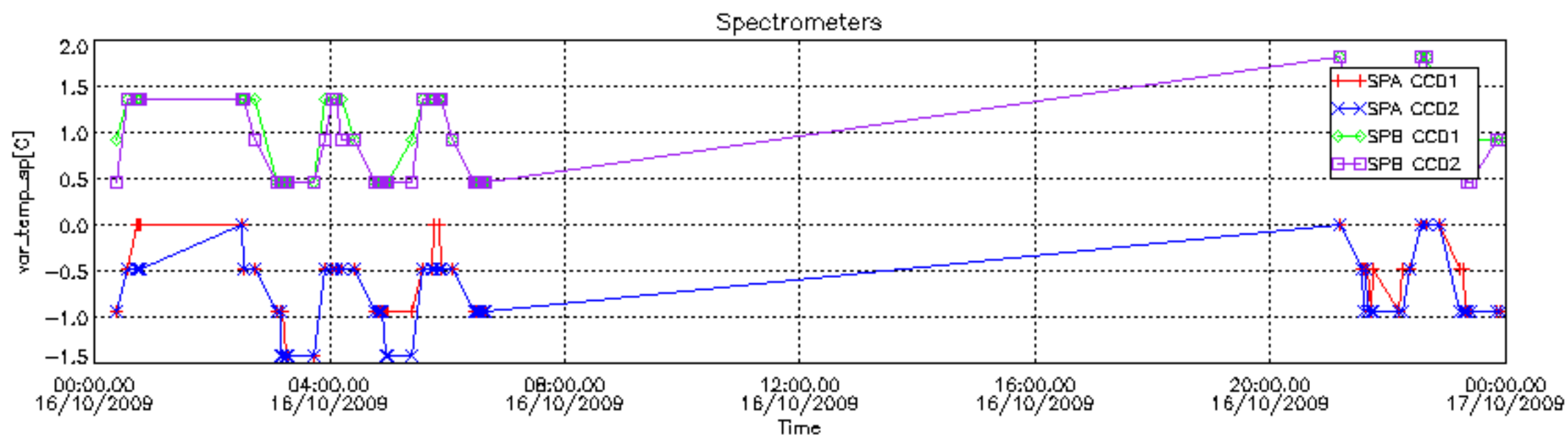


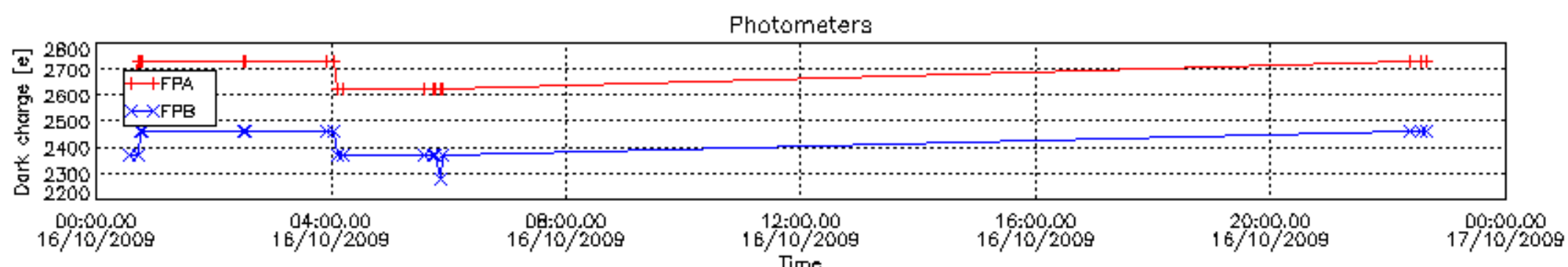
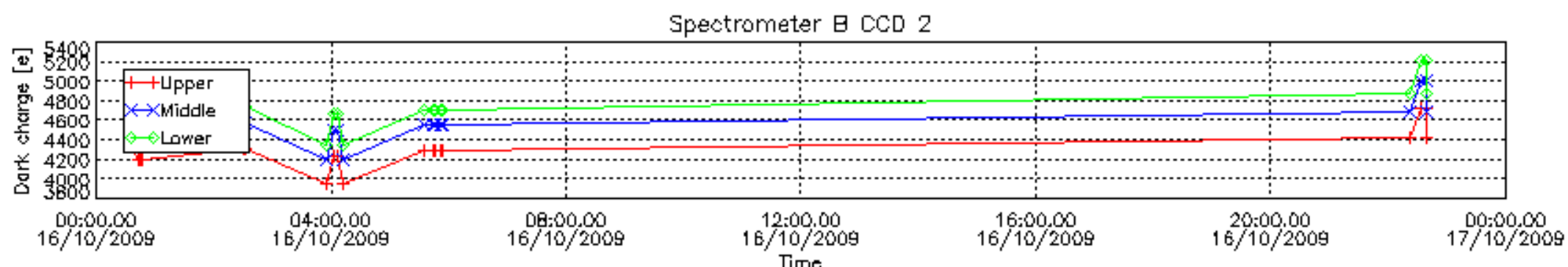
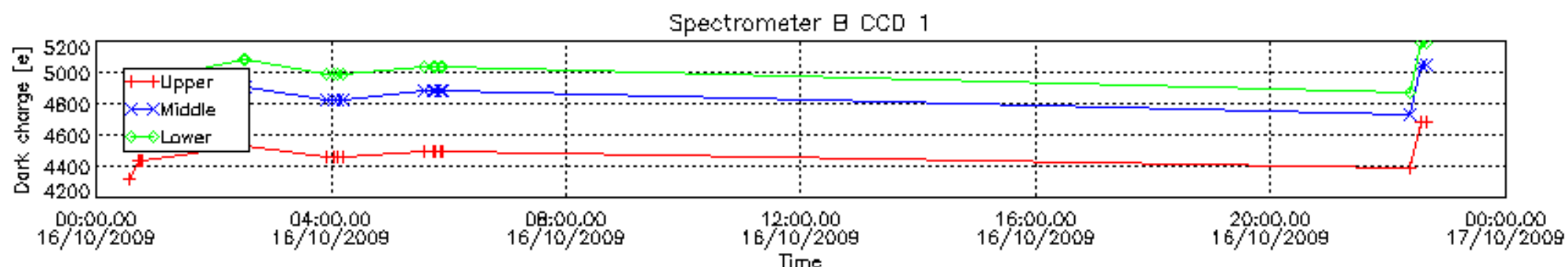
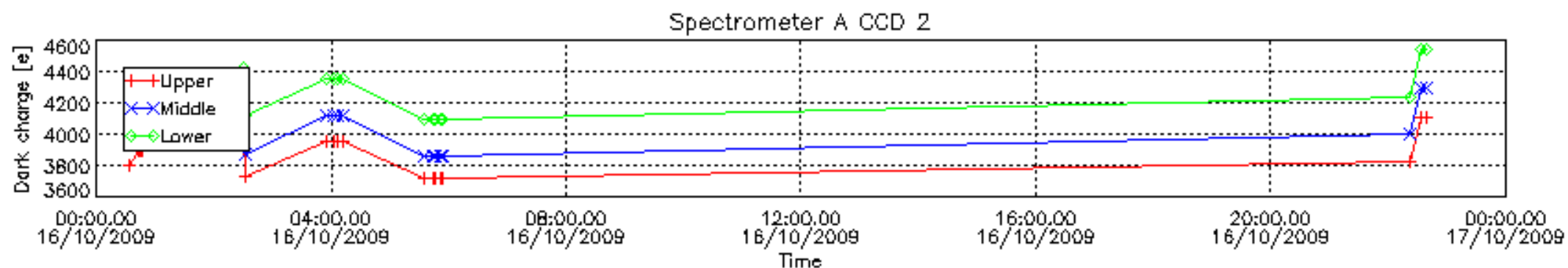
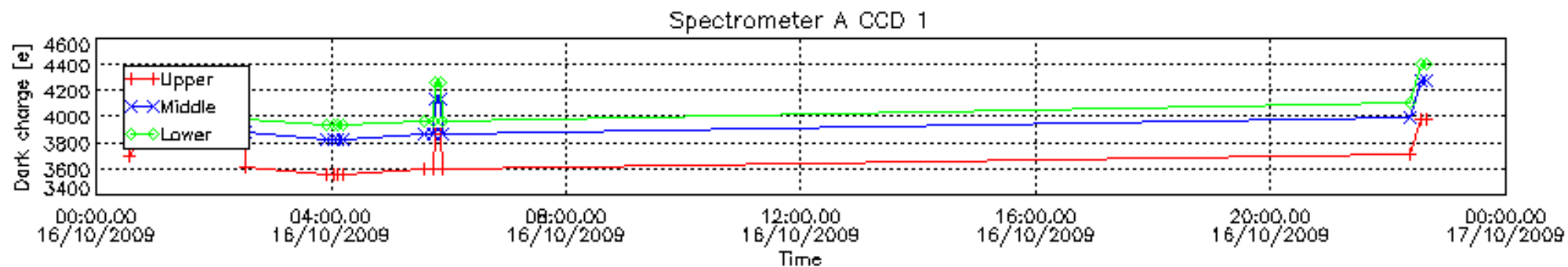
8. Auxiliary Data Files used for the production reported in section 2.4

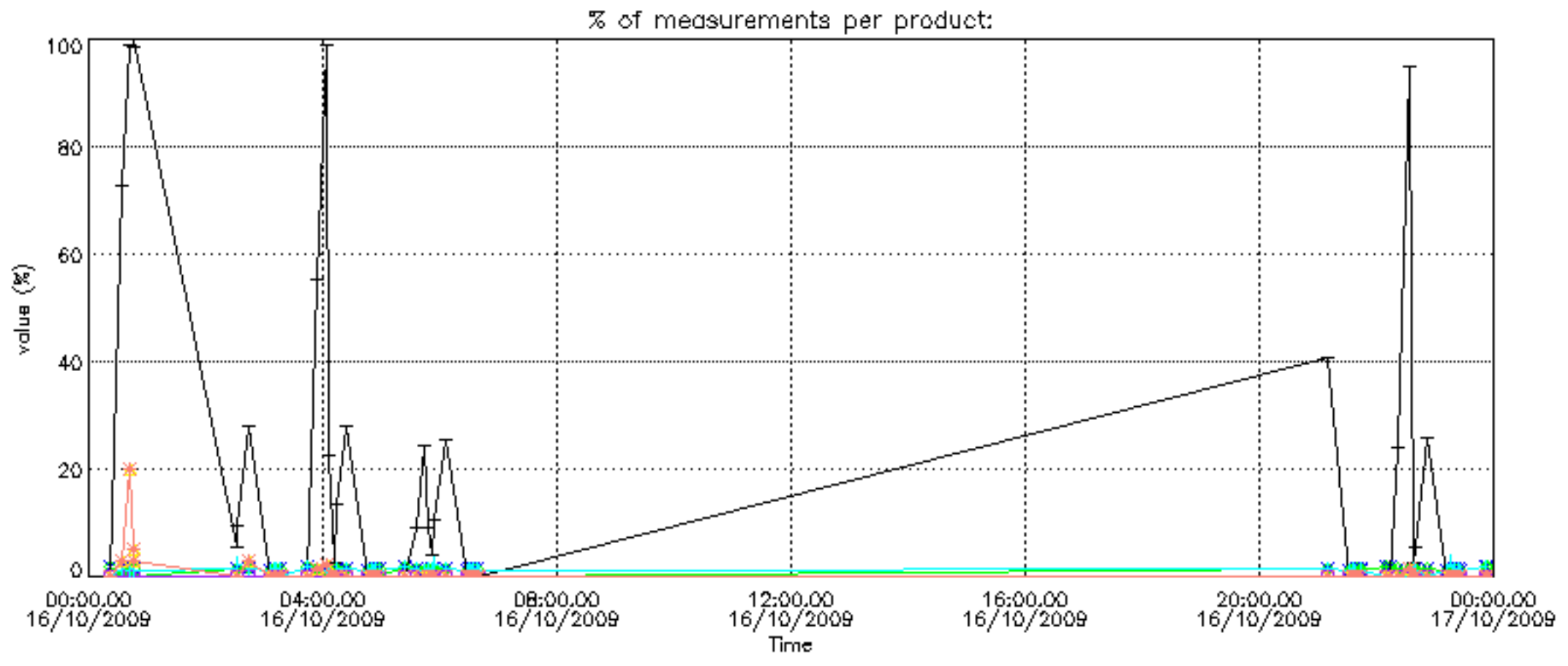
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

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LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	16-OCT-2009 00:22:46
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	16-OCT-2009 00:22:46
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	16-OCT-2009 00:22:46
ECMWF_FILE	AUX_ECF_AXNECM20091015_062113_20091015_210000_20091016_090000	1	16-OCT-2009 00:22:46
ECMWF_FILE	AUX_ECF_AXNECM20091016_154110_20091016_210000_20091017_090000	41	16-OCT-2009 21:10:50
OPTIONAL_ECMWF_FILE	MISSING	1	16-OCT-2009 00:22:46
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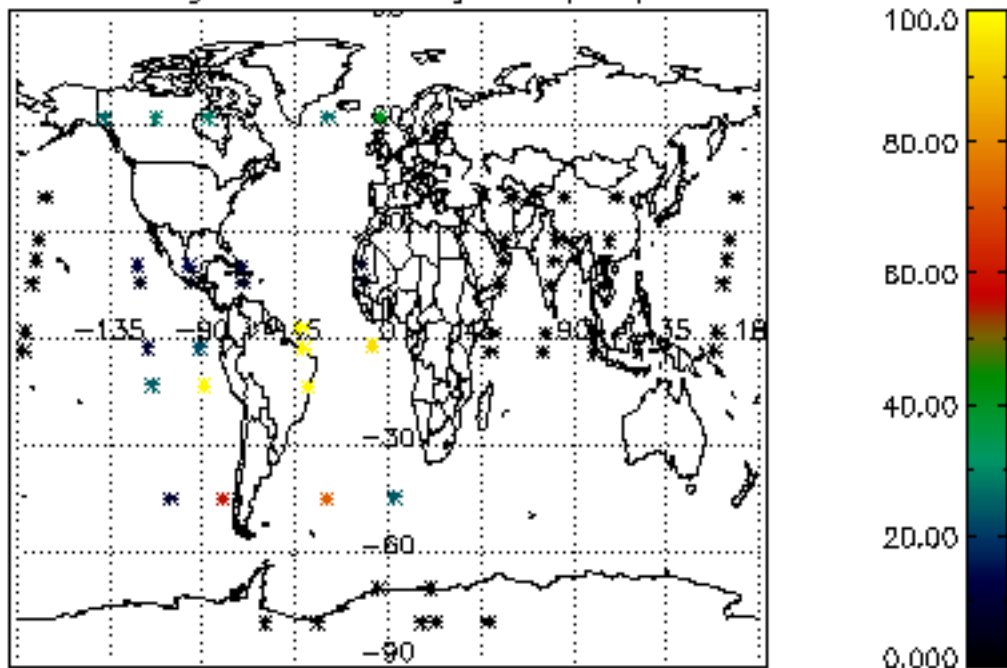




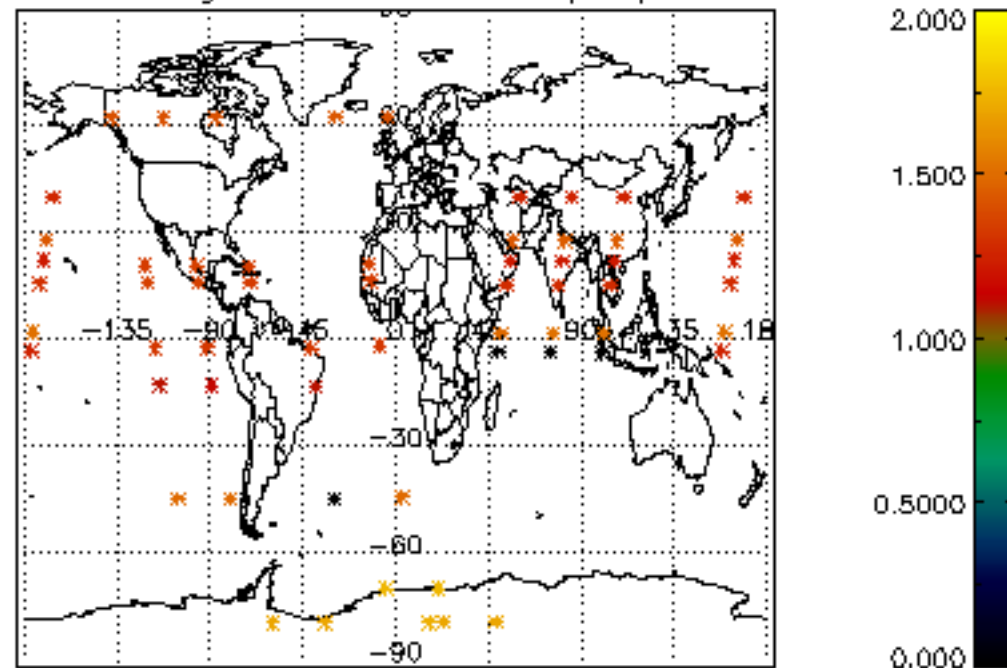




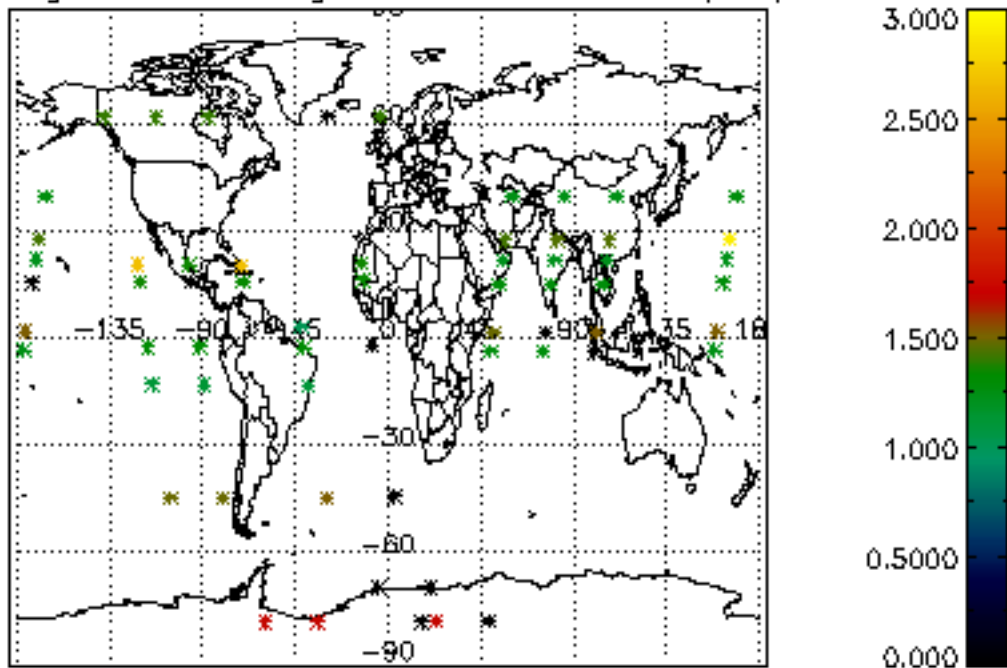
Percentage of cosmic ray hits per profile



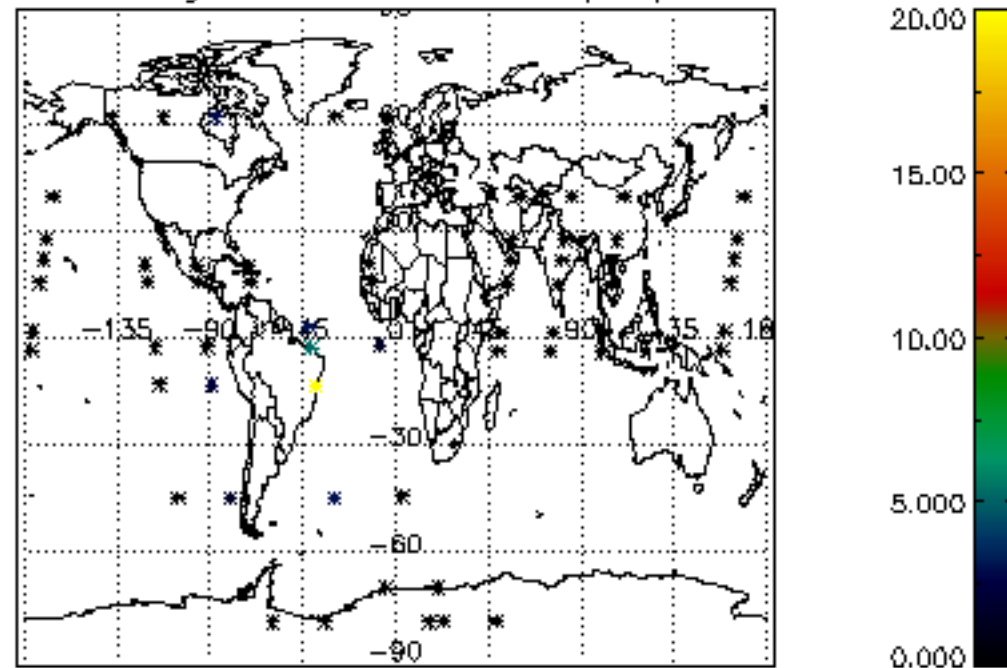
Percentage of datation errors per profile



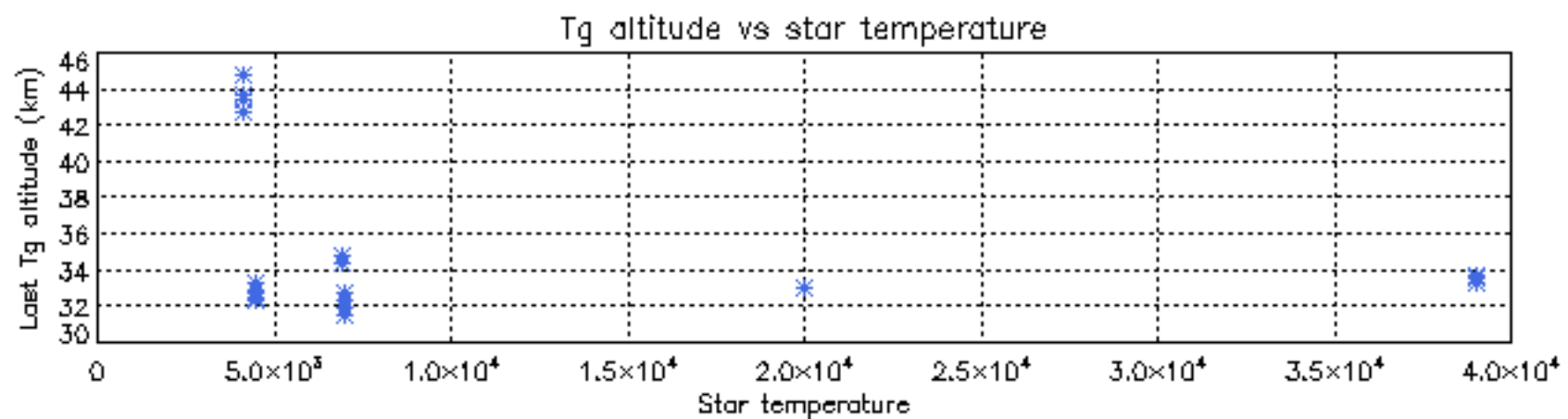
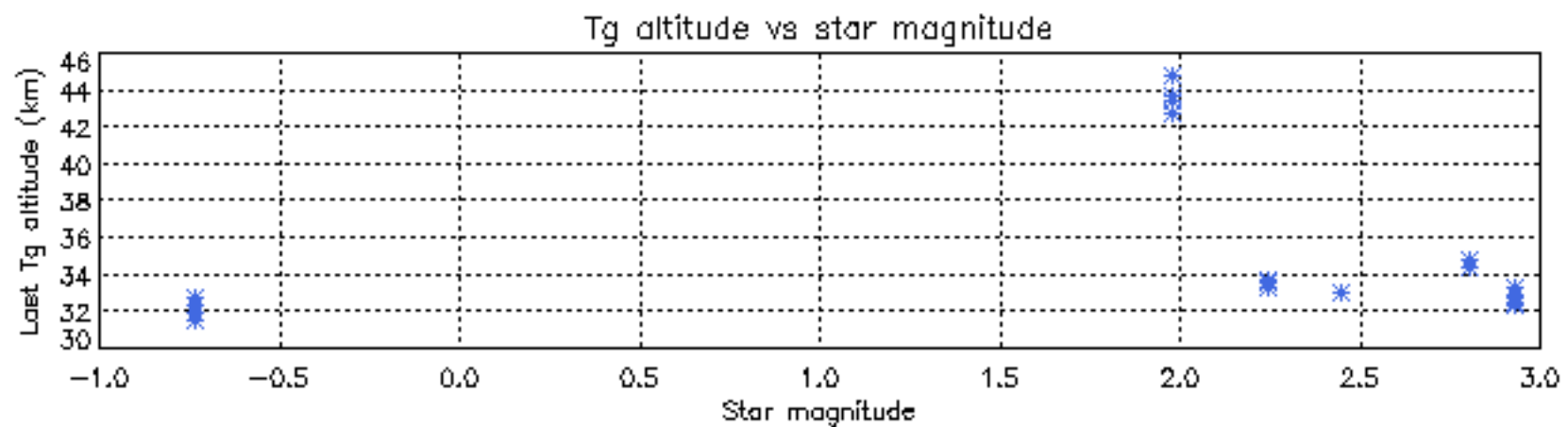
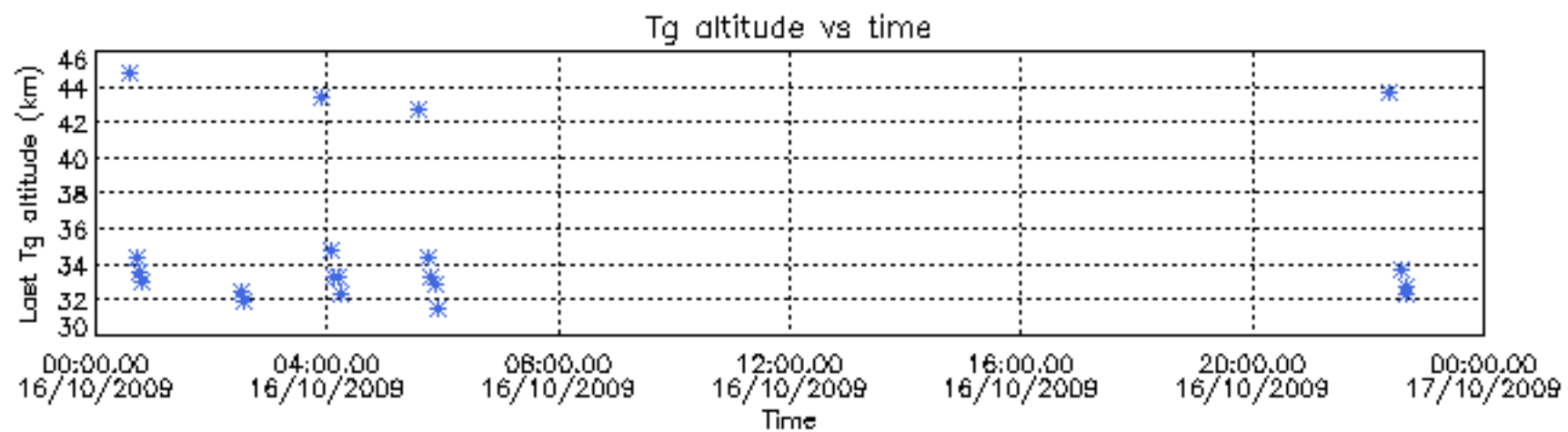
Percentage of star falling outside central band per profile



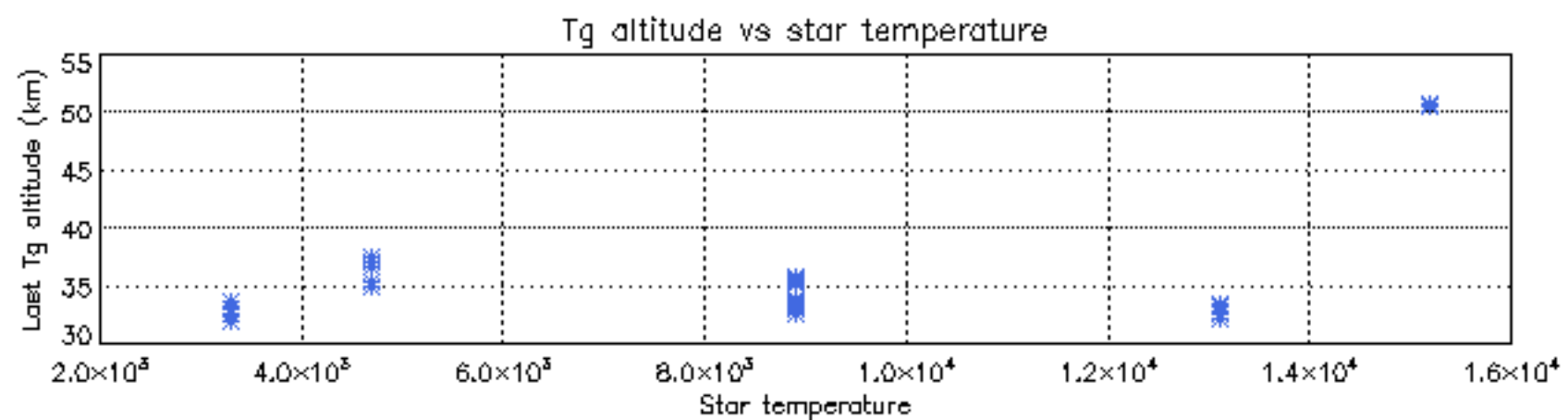
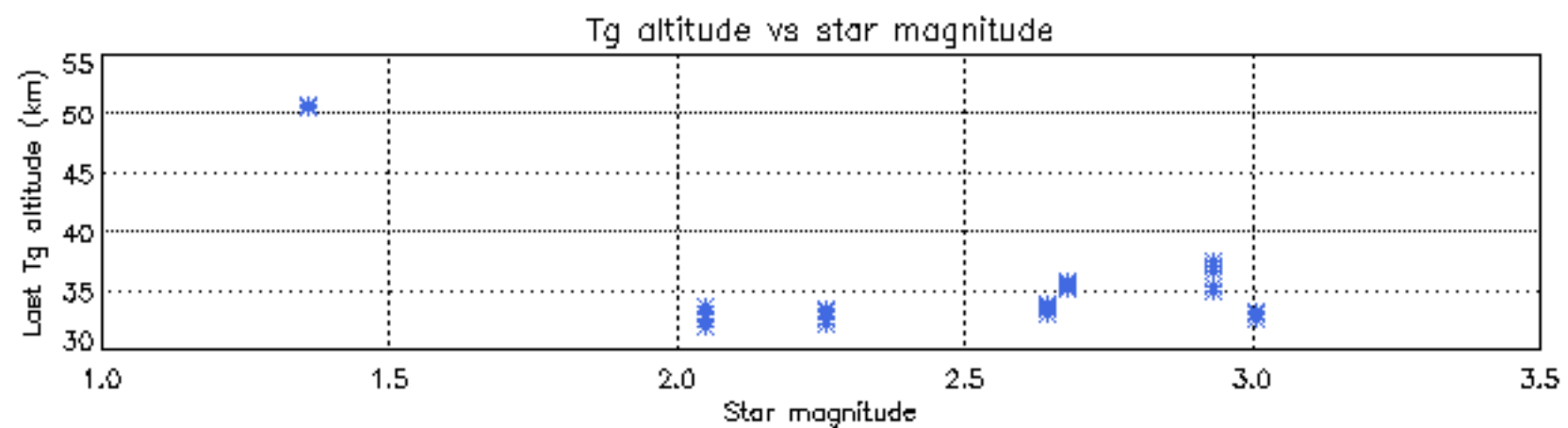
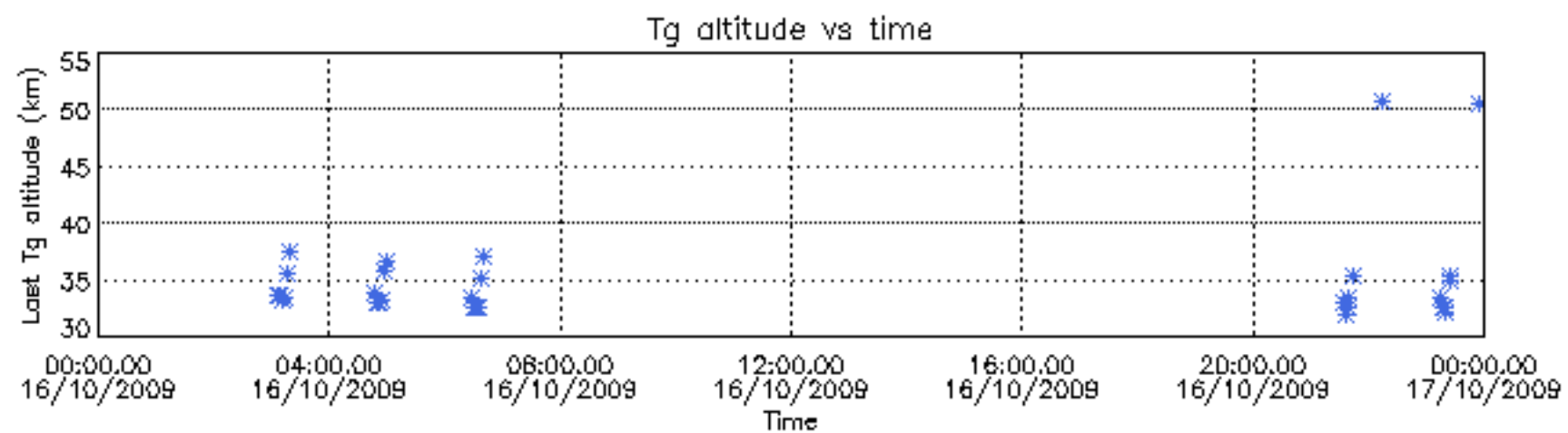
Percentage of saturation errors per profile

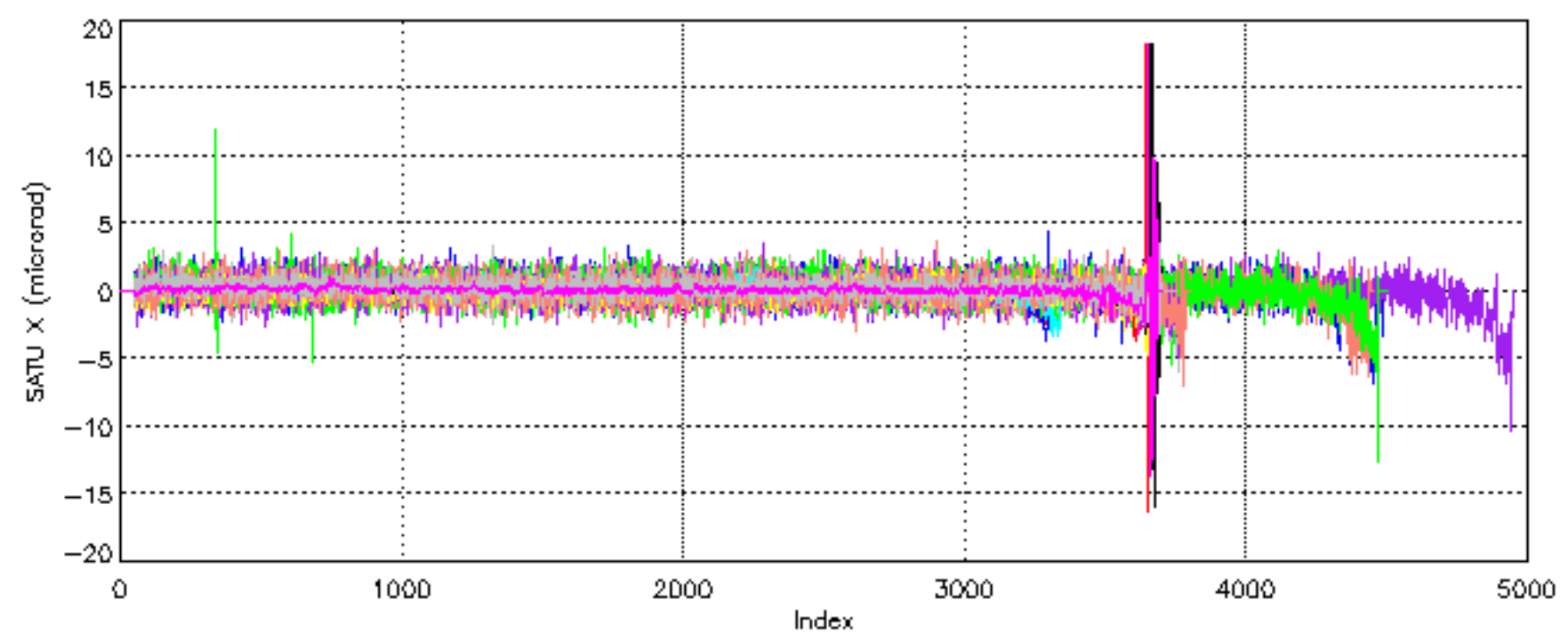


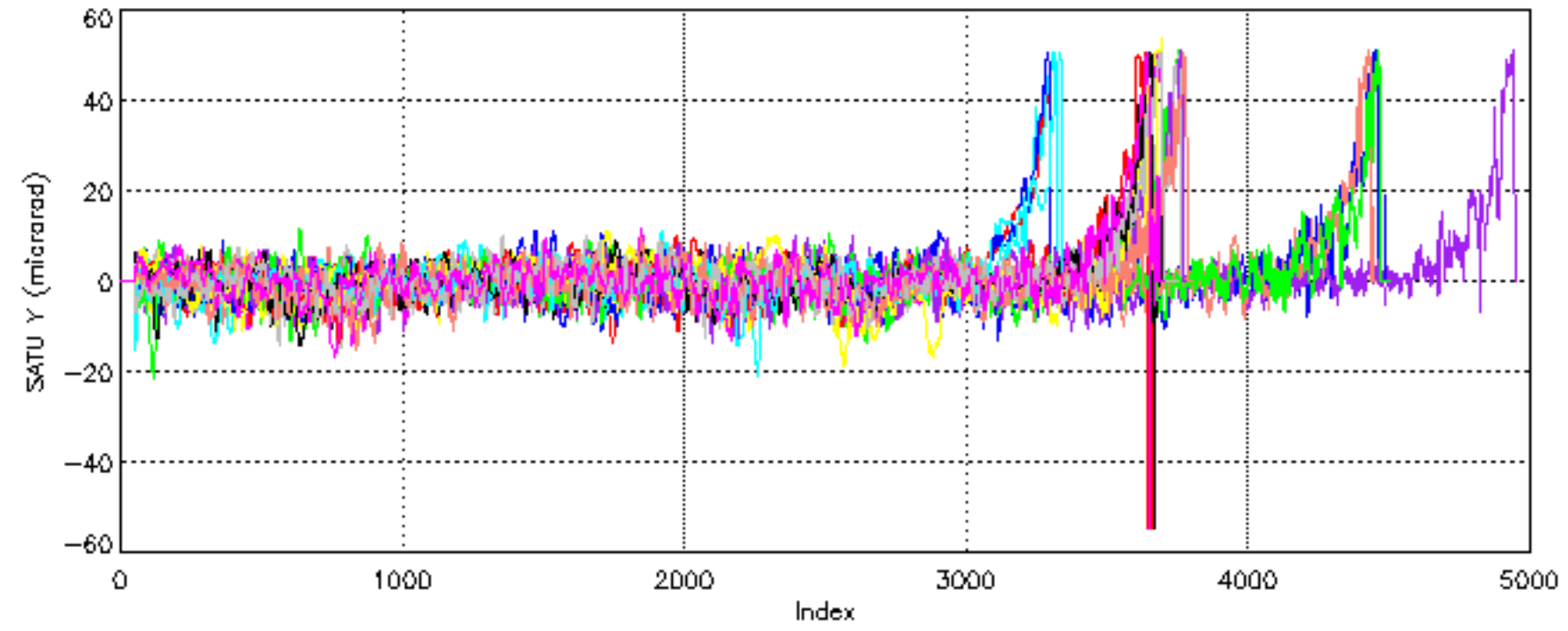
Tangent altitude at which the star is lost

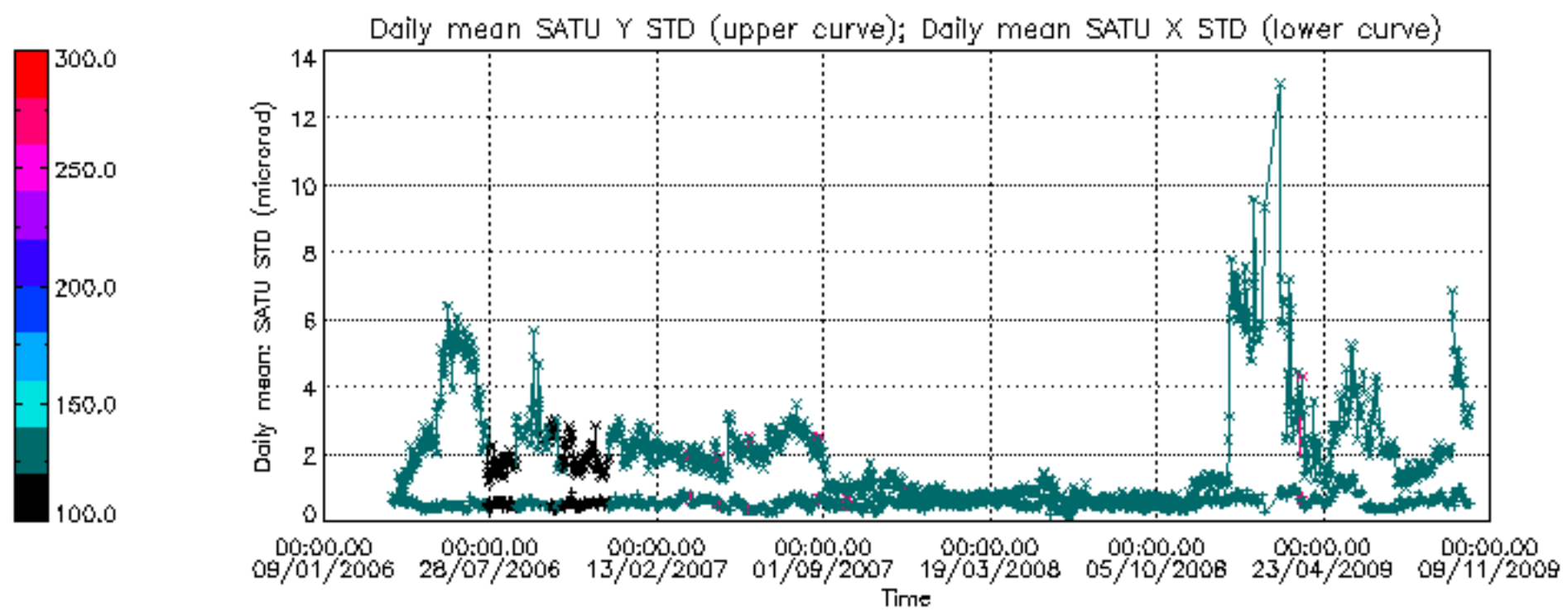


Tangent altitude at which the star is lost









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6; 3028.8; 01-OCT-2009 12:52:02; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;39671
7; 4603.6; 01-OCT-2009 13:18:17; Bright; 37.0; 17; 78Bet Gem ; 1.16; 4500;occ; 74; 0;39671
8; 5593.0; 01-OCT-2009 13:34:46; Dark ; 36.0; 132; 15Rho Pup ; 2.80; 6900;occ; 72; 0;39671
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3; 2692.5; 25-OCT-2009 13:32:26; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;40015
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2; 2572.6; 25-OCT-2009 15:11:02; Bright; 41.0; 173; 4Bet Tri ; 3.00; 8900;occ; 82; 0;40016
3; 2692.3; 25-OCT-2009 15:13:02; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;40016
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2; 2569.4; 26-OCT-2009 04:35:46; Bright; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;40024
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2; 123.6; 26-OCT-2009 07:16:12; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;40026
3; 270.7; 26-OCT-2009 07:18:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40026
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3; 6162.6; 26-OCT-2009 12:18:03; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;40028
4; 6309.4; 26-OCT-2009 12:20:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40028
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4; 6163.3; 26-OCT-2009 13:58:40; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;40029
5; 6310.4; 26-OCT-2009 14:01:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40029
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3; 4894.8; 26-OCT-2009 15:18:07; Bright; 43.5; 22; 32Alp Leo ; 1.36; 15200;occ; 87; 0;40030
4; 6311.4; 26-OCT-2009 15:41:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40030
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