

GOMOS Daily Report 11-OCT-2009

Level 0 and Level 1 products

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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	14OCT2009 04:41:17
Data source version	GOMOS/5.00L03
Start time of products	11OCT2009 00:01:09
Stop time of products	11OCT2009 23:48:18
Store outputs in DB	Yes
Nb of level 1b prods	74
Nb of prods with errors	0

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

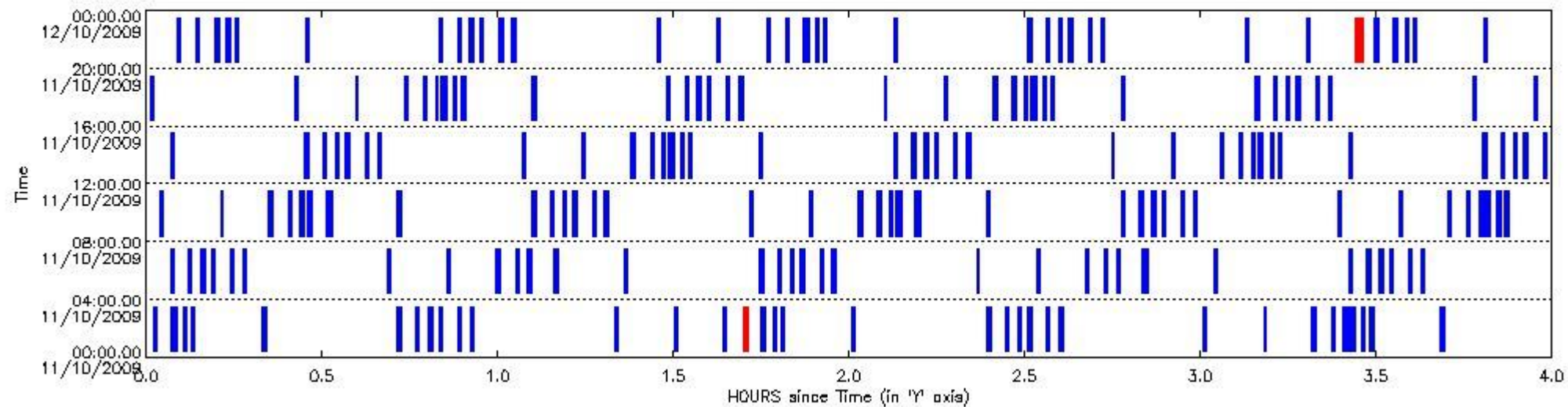
2.1 Level 0 products arrived in PCF (see template [here](#))

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
11-OCT-2009 01:41:51	ZetPup	70	39807
11-OCT-2009 23:26:33	15RhoPup	132	39820

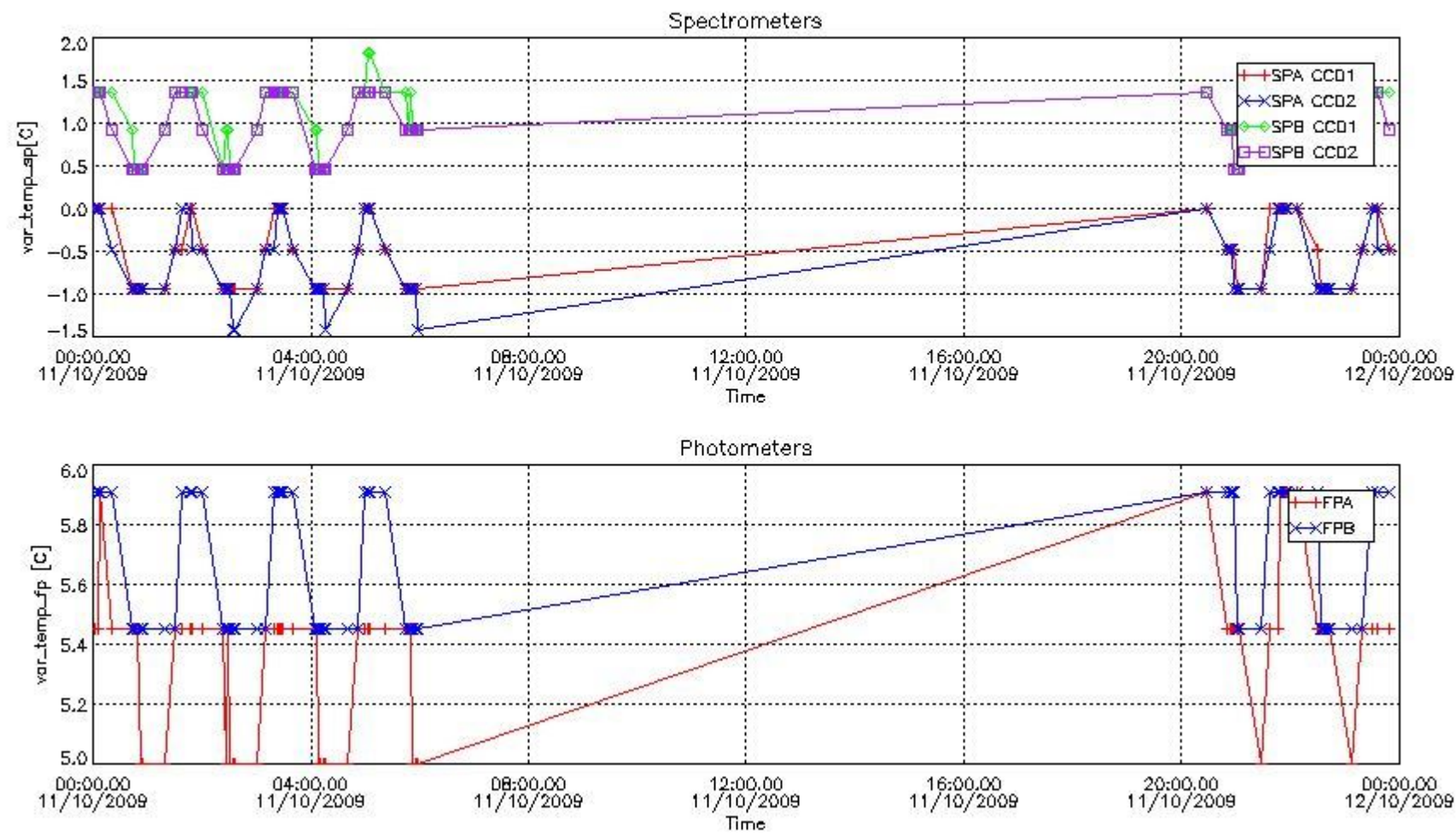
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20091011_000109_000000362083_00173_39806_0347.N1	11-OCT-2009 00:01:09	Dark	36.000	70	Zet Pup	2.2460	39000.	72	39806	No
2	GOM_TRA_1PNPDE20091011_000619_000000372083_00174_39807_0348.N1	11-OCT-2009 00:06:19	Dark	36.500	161	Tau Pup	2.9310	4500.0	73	39807	No
3	GOM_TRA_1PNPDE20091011_000742_000000372083_00174_39807_0349.N1	11-OCT-2009 00:07:42	Dark	36.500	2	Alp Car	-0.73600	7000.0	73	39807	No
4	GOM_TRA_1PNPDE20091011_001948_000000372083_00174_39807_0350.N1	11-OCT-2009 00:19:48	Straylight	37.000	157	The1Eri	2.9060	9300.0	74	39807	No
5	GOM_TRA_1PNPDE20091011_004252_000000452083_00174_39807_0351.N1	11-OCT-2009 00:42:52	Bright	44.500	105	6Bet Ari	2.6450	8900.0	89	39807	No
6	GOM_TRA_1PNPDE20091011_004600_000000372083_00174_39807_0352.N1	11-OCT-2009 00:46:00	Bright	36.500	53	43Bet And	2.0480	3300.0	73	39807	No
7	GOM_TRA_1PNPDE20091011_004807_000000452083_00174_39807_0353.N1	11-OCT-2009 00:48:07	Bright	44.500	173	4Bet Tri	3.0040	8900.0	89	39807	No
8	GOM_TRA_1PNPDE20091011_004952_000000422083_00174_39807_0354.N1	11-OCT-2009 00:49:52	Bright	41.500	73	57Gam1And	2.2600	13100.	83	39807	No
9	GOM_TRA_1PNPDE20091011_005310_000000342083_00174_39807_0355.N1	11-OCT-2009 00:53:10	Bright	33.500	110	37Del Cas	2.6780	8900.0	67	39807	No

10	GOM_TRA_1PNPDE20091011_005518_000000422083_00174_39807_0356.N1	11-OCT-2009 00:55:18	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	39807	No
11	GOM_TRA_1PNPDE20091011_011958_000000282083_00174_39807_0357.N1	11-OCT-2009 01:19:58	Twilight	27.500	166	17Eps Leo	2.9800	6000.0	55	39807	No
12	GOM_TRA_1PNPDE20091011_013010_000000312083_00174_39807_0352.N1	11-OCT-2009 01:30:10	Twilight	31.000	48	30Alp Hya	1.9770	4100.0	62	39807	No
13	GOM_TRA_1PNPDE20091011_013825_000000412083_00174_39807_0353.N1	11-OCT-2009 01:38:25	Dark	41.000	132	15Rho Pup	2.8030	6900.0	82	39807	No
14	GOM_TRA_1PNPDE20091011_014656_000000372083_00175_39808_0354.N1	11-OCT-2009 01:46:56	Dark	36.500	161	Tau Pup	2.9310	4500.0	73	39808	No
15	GOM_TRA_1PNPDE20091011_014819_000000372083_00175_39808_0355.N1	11-OCT-2009 01:48:19	Dark	37.000	2	Alp Car	-0.73600	7000.0	74	39808	No
16	GOM_TRA_1PNPDE20091011_020024_000000372083_00175_39808_0356.N1	11-OCT-2009 02:00:24	Straylight	37.000	157	The1Eri	2.9060	9300.0	74	39808	No
17	GOM_TRA_1PNPDE20091011_022328_000000442083_00175_39808_0357.N1	11-OCT-2009 02:23:28	Bright	43.500	105	6Bet Ari	2.6450	8900.0	87	39808	No
18	GOM_TRA_1PNPDE20091011_022635_000000372083_00175_39808_0358.N1	11-OCT-2009 02:26:35	Bright	36.500	53	43Bet And	2.0480	3300.0	73	39808	No
19	GOM_TRA_1PNPDE20091011_022842_000000452083_00175_39808_0359.N1	11-OCT-2009 02:28:42	Bright	44.500	173	4Bet Tri	3.0040	8900.0	89	39808	No
20	GOM_TRA_1PNPDE20091011_023027_000000412083_00175_39808_0360.N1	11-OCT-2009 02:30:27	Bright	41.000	73	57Gam1And	2.2600	13100.	82	39808	No
21	GOM_TRA_1PNPDE20091011_023346_000000342083_00175_39808_0361.N1	11-OCT-2009 02:33:46	Bright	33.500	110	37Del Cas	2.6780	8900.0	67	39808	No
22	GOM_TRA_1PNPDE20091011_023553_000000412083_00175_39808_0362.N1	11-OCT-2009 02:35:53	Bright	41.000	160	23Gam Per	2.9300	4700.0	82	39808	No
23	GOM_TRA_1PNPDE20091011_030034_000000282083_00175_39808_0360.N1	11-OCT-2009 03:00:34	Twilight	27.500	166	17Eps Leo	2.9800	6000.0	55	39808	No
24	GOM_TRA_1PNPDE20091011_031047_000000312083_00175_39808_0361.N1	11-OCT-2009 03:10:47	Twilight	31.000	48	30Alp Hya	1.9770	4100.0	62	39808	No
25	GOM_TRA_1PNPDE20091011_031903_000000412083_00175_39808_0362.N1	11-OCT-2009 03:19:03	Dark	40.500	132	15Rho Pup	2.8030	6900.0	81	39808	No
26	GOM_TRA_1PNPDE20091011_032222_000000362083_00175_39808_0363.N1	11-OCT-2009 03:22:22	Dark	36.000	70	Zet Pup	2.2460	39000.	72	39808	No
27	GOM_TRA_1PNPDE20091011_032421_000000422083_00176_39809_0364.N1	11-OCT-2009 03:24:21	Dark	42.000	37	25Del CMa	1.8300	5900.0	84	39809	No
28	GOM_TRA_1PNPDE20091011_032733_000000372083_00176_39809_0365.N1	11-OCT-2009 03:27:33	Dark	36.500	161	Tau Pup	2.9310	4500.0	73	39809	No
29	GOM_TRA_1PNPDE20091011_032856_000000372083_00176_39809_0366.N1	11-OCT-2009 03:28:56	Dark	36.500	2	Alp Car	-0.73600	7000.0	73	39809	No
30	GOM_TRA_1PNPDE20091011_034101_000000372083_00176_39809_0367.N1	11-OCT-2009 03:41:01	Straylight	36.500	157	The1Eri	2.9060	9300.0	73	39809	No
31	GOM_TRA_1PNPDE20091011_040403_000000442083_00176_39809_0368.N1	11-OCT-2009 04:04:03	Bright	43.500	105	6Bet Ari	2.6450	8900.0	87	39809	No
32	GOM_TRA_1PNPDE20091011_040711_000000372083_00176_39809_0369.N1	11-OCT-2009 04:07:11	Bright	36.500	53	43Bet And	2.0480	3300.0	73	39809	No
33	GOM_TRA_1PNPDE20091011_040918_000000442083_00176_39809_0370.N1	11-OCT-2009 04:09:18	Bright	43.500	173	4Bet Tri	3.0040	8900.0	87	39809	No
34	GOM_TRA_1PNPDE20091011_041102_000000412083_00176_39809_0371.N1	11-OCT-2009 04:11:02	Bright	41.000	73	57Gam1And	2.2600	13100.	82	39809	No
35	GOM_TRA_1PNPDE20091011_041422_000000342083_00176_39809_0372.N1	11-OCT-2009 04:14:22	Bright	33.500	110	37Del Cas	2.6780	8900.0	67	39809	No
36	GOM_TRA_1PNPDE20091011_041629_000000412083_00176_39809_0373.N1	11-OCT-2009 04:16:29	Bright	40.500	160	23Gam Per	2.9300	4700.0	81	39809	No
37	GOM_TRA_1PNPDE20091011_044110_000000282083_00176_39809_0368.N1	11-OCT-2009 04:41:10	Twilight	27.500	166	17Eps Leo	2.9800	6000.0	55	39809	No
38	GOM_TRA_1PNPDE20091011_045124_000000312083_00176_39809_0369.N1	11-OCT-2009 04:51:24	Twilight	31.000	48	30Alp Hya	1.9770	4100.0	62	39809	No
39	GOM_TRA_1PNPDE20091011_045940_000000412083_00176_39809_0370.N1	11-OCT-2009 04:59:40	Dark	41.000	132	15Rho Pup	2.8030	6900.0	82	39809	No
40	GOM_TRA_1PNPDE20091011_050259_000000362083_00176_39809_0371.N1	11-OCT-2009 05:02:59	Dark	36.000	70	Zet Pup	2.2460	39000.	72	39809	No
41	GOM_TRA_1PNPDE20091011_050459_000000422083_00177_39810_0372.N1	11-OCT-2009 05:04:59	Dark	42.000	37	25Del CMa	1.8300	5900.0	84	39810	No
42	GOM_TRA_1PNPDE20091011_052137_000000372083_00177_39810_0373.N1	11-OCT-2009 05:21:37	Straylight	37.000	157	The1Eri	2.9060	9300.0	74	39810	No
43	GOM_TRA_1PNPDE20091011_054438_000000442083_00177_39810_0374.N1	11-OCT-2009 05:44:38	Bright	44.000	105	6Bet Ari	2.6450	8900.0	88	39810	No
44	GOM_TRA_1PNPDE20091011_054747_000000362083_00177_39810_0375.N1	11-OCT-2009 05:47:47	Bright	36.000	53	43Bet And	2.0480	3300.0	72	39810	No
45	GOM_TRA_1PNPDE20091011_054953_000000442083_00177_39810_0376.N1	11-OCT-2009 05:49:53	Bright	44.000	173	4Bet Tri	3.0040	8900.0	88	39810	No
46	GOM_TRA_1PNPDE20091011_055137_000000412083_00177_39810_0377.N1	11-OCT-2009 05:51:37	Bright	41.000	73	57Gam1And	2.2600	13100.	82	39810	No
47	GOM_TRA_1PNPDE20091011_055457_000000342083_00177_39810_0378.N1	11-OCT-2009 05:54:57	Bright	33.500	110	37Del Cas	2.6780	8900.0	67	39810	No
48	GOM_TRA_1PNPDE20091011_055704_000000412083_00177_39810_0379.N1	11-OCT-2009 05:57:04	Bright	41.000	160	23Gam Per	2.9300	4700.0	82	39810	No
49	GOM_TRA_1PNPDE20091011_202706_000000372083_00186_39819_0423.N1	11-OCT-2009 20:27:06	Straylight	36.500	157	The1Eri	2.9060	9300.0	73	39819	No
50	GOM_TRA_1PNPDE20091011_204956_000000442083_00186_39819_0424.N1	11-OCT-2009 20:49:56	Bright	43.500	105	6Bet Ari	2.6450	8900.0	87	39819	No
51	GOM_TRA_1PNPDE20091011_205306_000000372083_00186_39819_0425.N1	11-OCT-2009 20:53:06	Bright	36.500	53	43Bet And	2.0480	3300.0	73	39819	No
52	GOM_TRA_1PNPDE20091011_205508_000000442083_00186_39819_0426.N1	11-OCT-2009 20:55:08	Bright	44.000	173	4Bet Tri	3.0040	8900.0	88	39819	No
53	GOM_TRA_1PNPDE20091011_205654_000000412083_00186_39819_0427.N1	11-OCT-2009 20:56:54	Bright	40.500	73	57Gam1And	2.2600	13100.	81	39819	No
54	GOM_TRA_1PNPDE20091011_210017_000000342083_00186_39819_0428.N1	11-OCT-2009 21:00:17	Bright	34.000	110	37Del Cas	2.6780	8900.0	68	39819	No
55	GOM_TRA_1PNPDE20091011_210219_000000422083_00186_39819_0429.N1	11-OCT-2009 21:02:19	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	39819	No
56	GOM_TRA_1PNPDE20091011_212712_000000282083_00186_39819_0430.N1	11-OCT-2009 21:27:12	Twilight	27.500	166	17Eps Leo	2.9800	6000.0	55	39819	No
57	GOM_TRA_1PNPDE20091011_213729_000000322083_00186_39819_0430.N1	11-OCT-2009 21:37:29	Dark	31.500	48	30Alp Hya	1.9770	4100.0	63	39819	No
58	GOM_TRA_1PNPDE20091011_214551_000000422083_00186_39819_0431.N1	11-OCT-2009 21:45:51	Dark	41.500	132	15Rho Pup	2.8030	6900.0	83	39819	No
59	GOM_TRA_1PNPDE20091011_214907_000000372083_00186_39819_0432.N1	11-OCT-2009 21:49:07	Dark	37.000	70	Zet Pup	2.2460	39000.	74	39819	No
60	GOM_TRA_1PNPDE20091011_215418_000000372083_00187_39820_0433.N1	11-OCT-2009 21:54:18	Dark	36.500	161	Tau Pup	2.9310	4500.0	73	39820	No
61	GOM_TRA_1PNPDE20091011_215540_000000372083_00187_39820_0434.N1	11-OCT-2009 21:55:40	Dark	37.000	2	Alp Car	-0.73600	7000.0	74	39820	No
62	GOM_TRA_1PNPDE20091011_220742_000000372083_00187_39820_0435.N1	11-OCT-2009 22:07:42	Straylight	36.500	157	The1Eri	2.9060	9300.0	73	39820	No
63	GOM_TRA_1PNPDE20091011_223031_000000432083_00187_39820_0436.N1	11-OCT-2009 22:30:31	Bright	43.000	105	6Bet Ari	2.6450	8900.0	86	39820	No
64	GOM_TRA_1PNPDE20091011_223342_000000372083_00187_39820_0437.N1	11-OCT-2009 22:33:42	Bright	36.500	53	43Bet And	2.0480	3300.0	73	39820	No
65	GOM_TRA_1PNPDE20091011_223543_000000442083_00187_39820_0438.N1	11-OCT-2009 22:35:43	Bright	44.000	173	4Bet Tri	3.0040	8900.0	88	39820	No
66	GOM_TRA_1PNPDE20091011_223729_000000412083_00187_39820_0439.N1	11-OCT-2009 22:37:29	Bright	41.000	73	57Gam1And	2.2600	13100.	82	39820	No
67	GOM_TRA_1PNPDE20091011_224053_000000342083_00187_39820_0440.N1	11-OCT-2009 22:40:53	Bright	34.000	110	37Del Cas	2.6780	8900.0	68	39820	No
68	GOM_TRA_1PNPDE20091011_224254_000000422083_00187_39820_0441.N1	11-OCT-2009 22:42:54	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	39820	No

69	GOM_TRA_1PNPDE20091011_230748_000000282083_00187_39820_0442.N1	11-OCT-2009 23:07:48	Twilight	27.500	166	17Eps Leo	2.9800	6000.0	55	39820	No
70	GOM_TRA_1PNPDE20091011_231805_000000312083_00187_39820_0437.N1	11-OCT-2009 23:18:05	Dark	31.000	48	30Alp Hya	1.9770	4100.0	62	39820	No
71	GOM_TRA_1PNPDE20091011_232944_000000372083_00187_39820_0438.N1	11-OCT-2009 23:29:44	Dark	36.500	70	Zet Pup	2.2460	39000.	73	39820	No
72	GOM_TRA_1PNPDE20091011_233454_000000382083_00188_39821_0439.N1	11-OCT-2009 23:34:54	Dark	37.500	161	Tau Pup	2.9310	4500.0	75	39821	No
73	GOM_TRA_1PNPDE20091011_233617_000000372083_00188_39821_0440.N1	11-OCT-2009 23:36:17	Dark	37.000	2	Alp Car	-0.73600	7000.0	74	39821	No
74	GOM_TRA_1PNPDE20091011_234818_000000372083_00188_39821_0441.N1	11-OCT-2009 23:48:18	Straylight	37.000	157	The1Eri	2.9060	9300.0	74	39821	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).

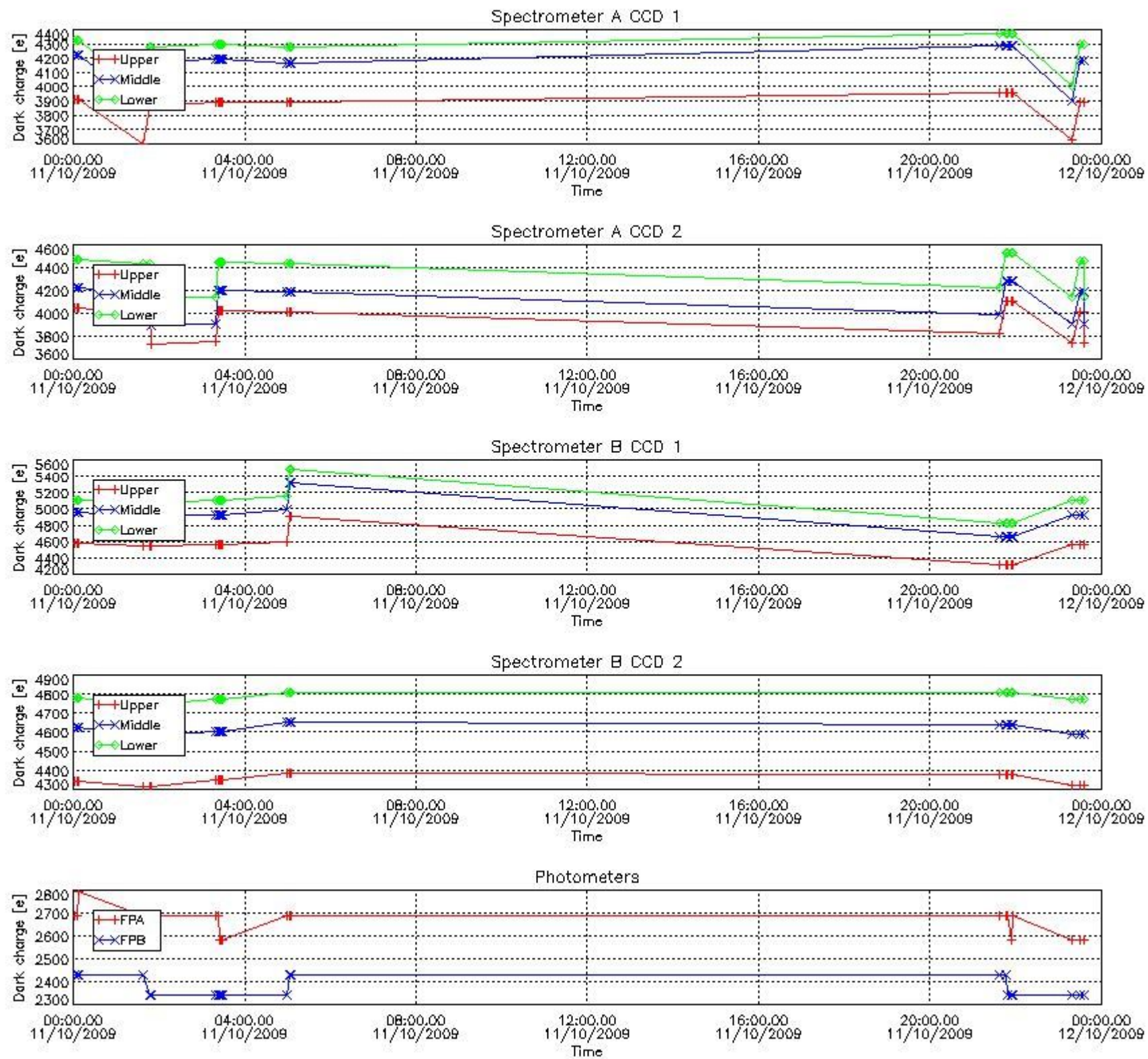
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20091011_202706_000000372083_00186_39819_0423.N1	DC map used
GOM_TRA_1PNPDE20091011_204956_000000442083_00186_39819_0424.N1	DC map used
GOM_TRA_1PNPDE20091011_205306_000000372083_00186_39819_0425.N1	DC map used
GOM_TRA_1PNPDE20091011_205508_000000442083_00186_39819_0426.N1	DC map used

GOM_TRA_1PNPDE20091011_205654_000000412083_00186_39819_0427.N1	DC map used
GOM_TRA_1PNPDE20091011_210017_000000342083_00186_39819_0428.N1	DC map used
GOM_TRA_1PNPDE20091011_210219_000000422083_00186_39819_0429.N1	DC map used
GOM_TRA_1PNPDE20091011_212712_000000282083_00186_39819_0430.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

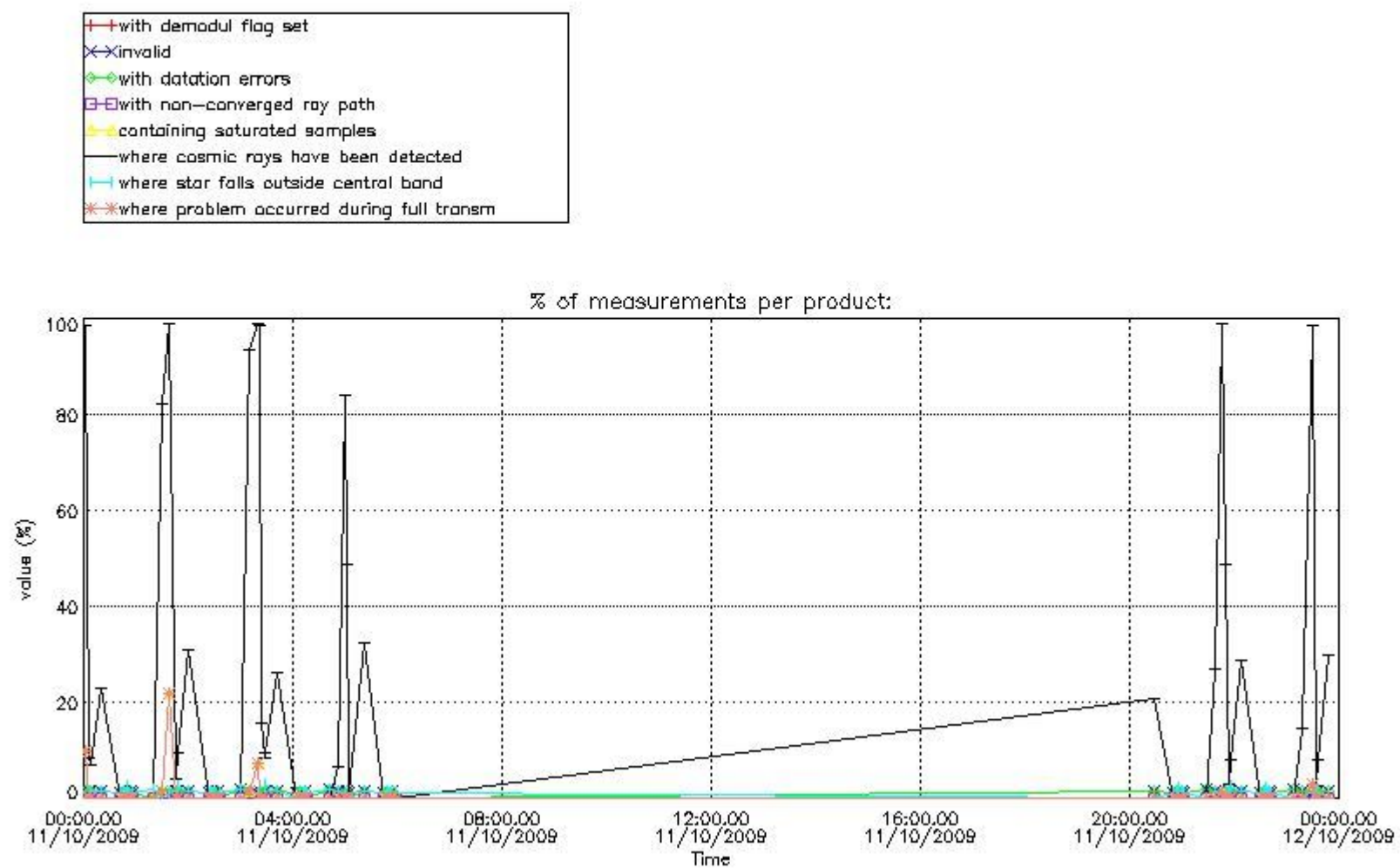
In this section it is presented the modulation information extracted from the pcd (product confidence data)

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.

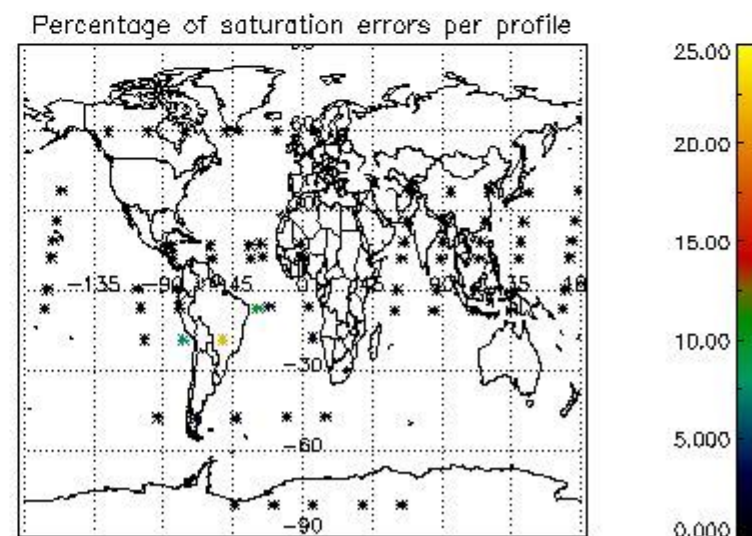
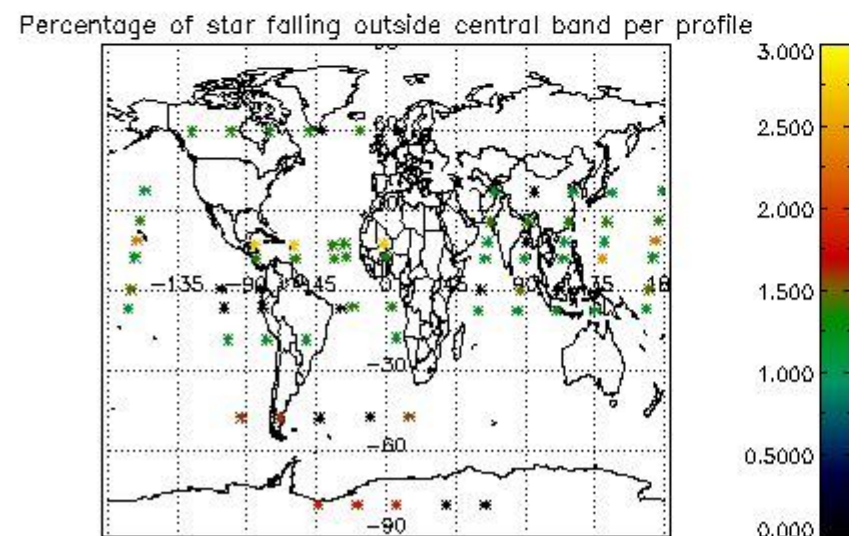
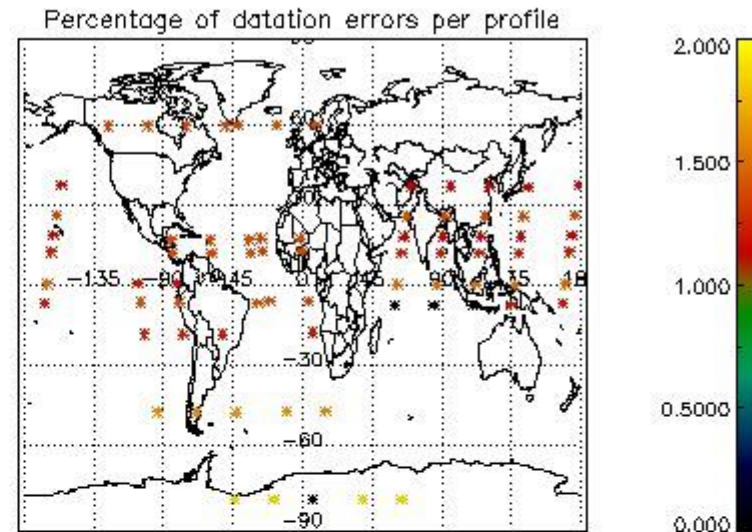
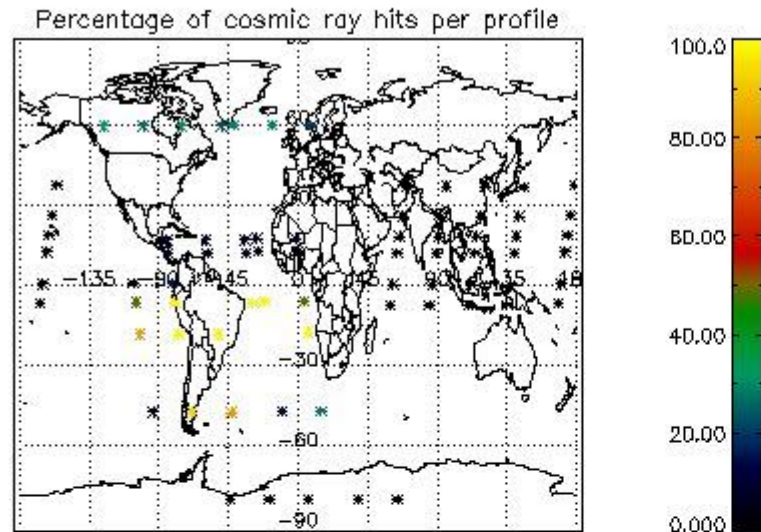
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	32.4324 %
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)



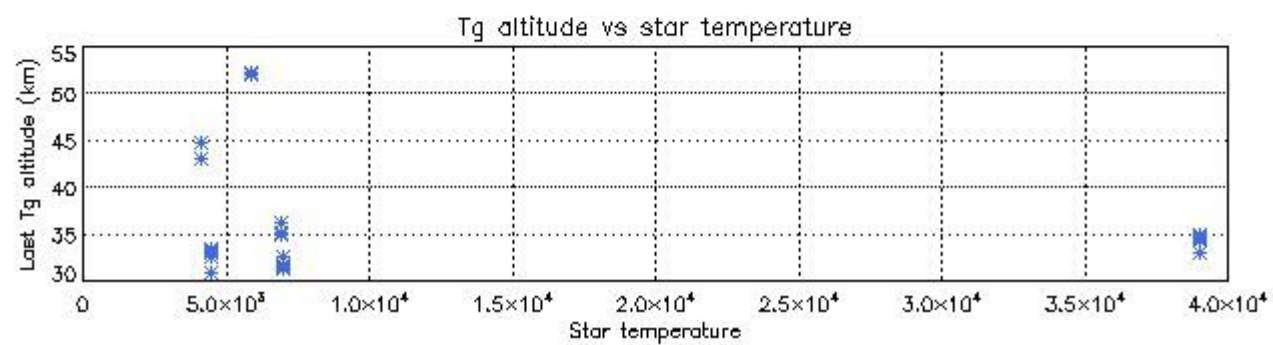
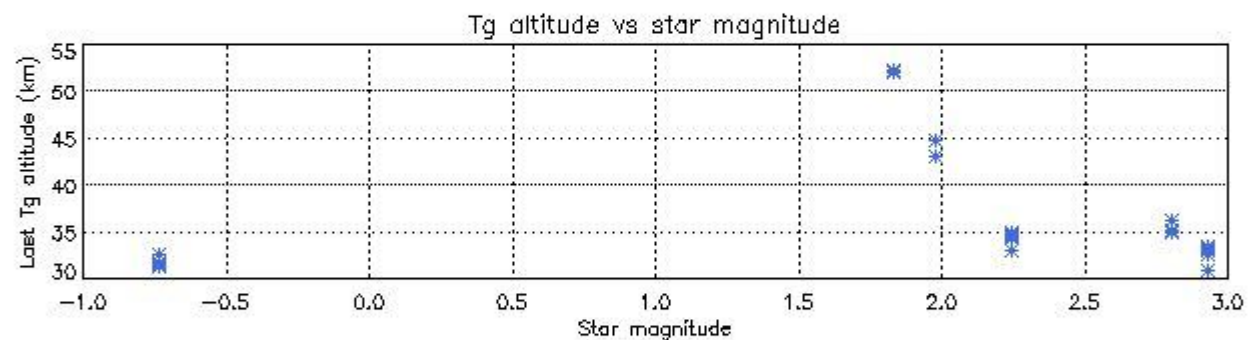
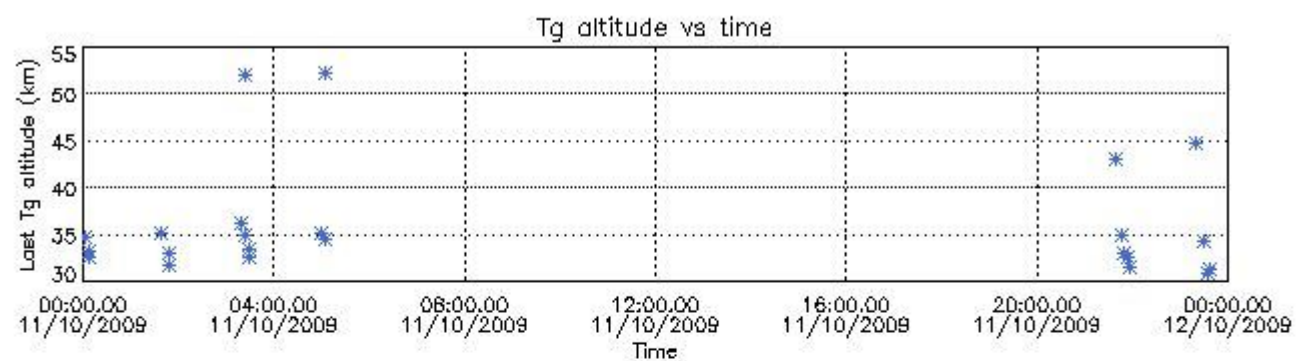
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	35.979	33.939	44.445
St. deviation:	6.0801	1.7160	0.37720
Maximum:	52.308	37.993	44.740
Minimum:	30.793	31.090	44.020
Number of data:	23.000	36.000	3.0000

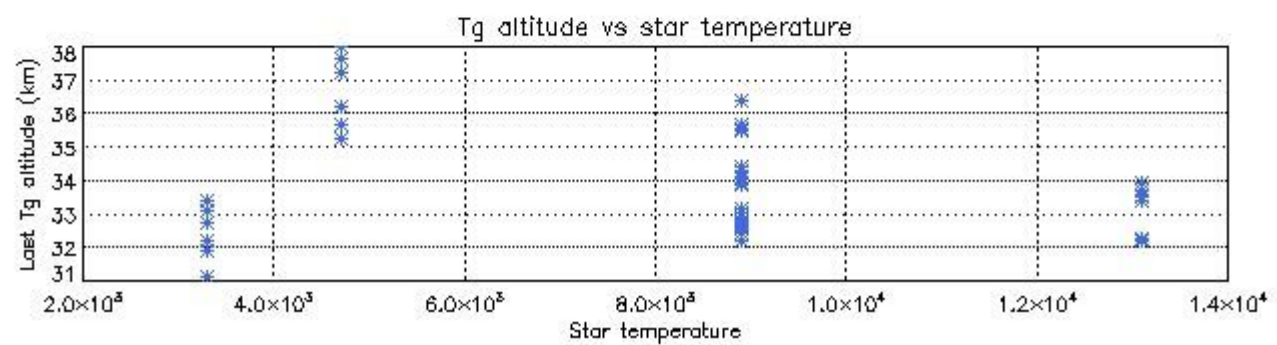
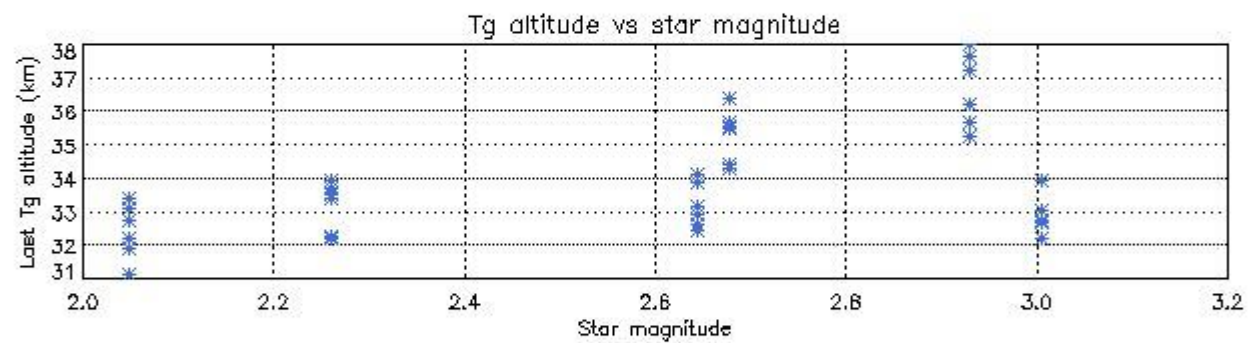
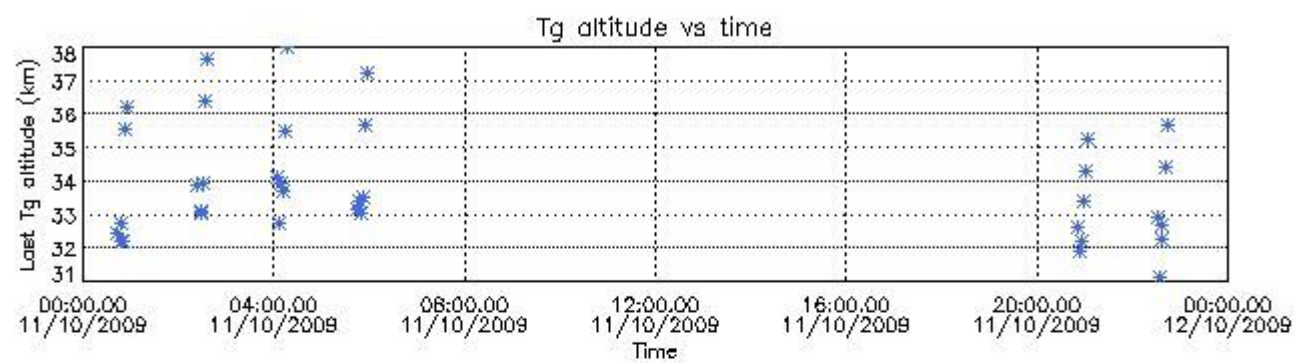
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



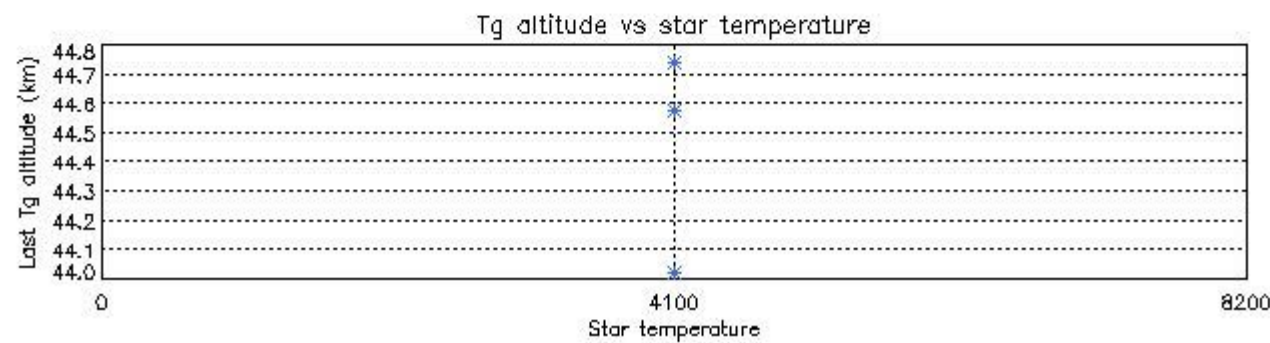
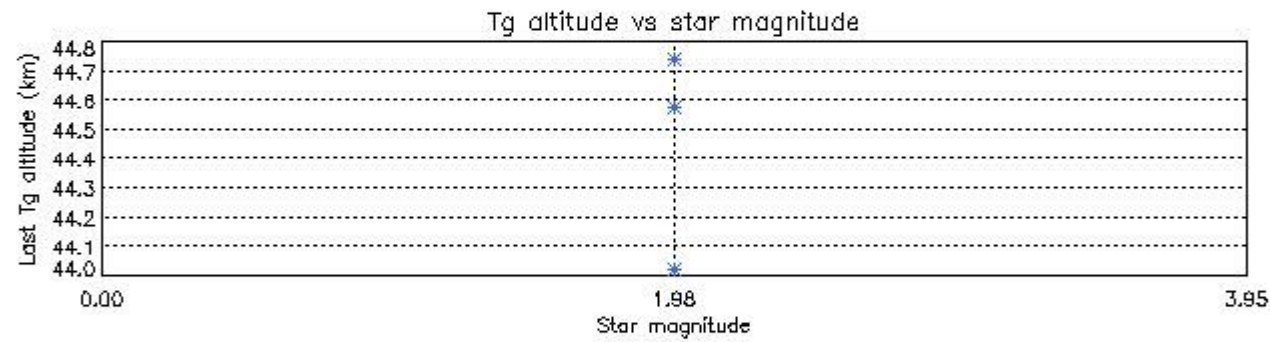
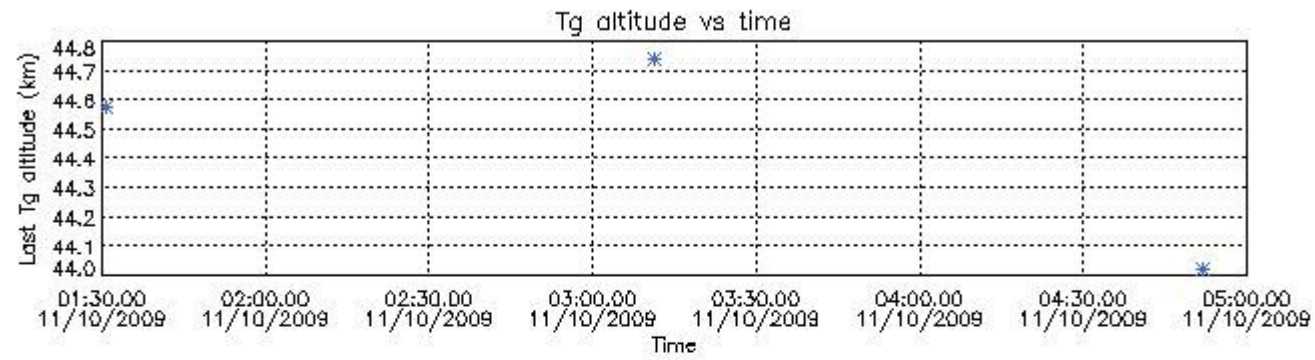
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

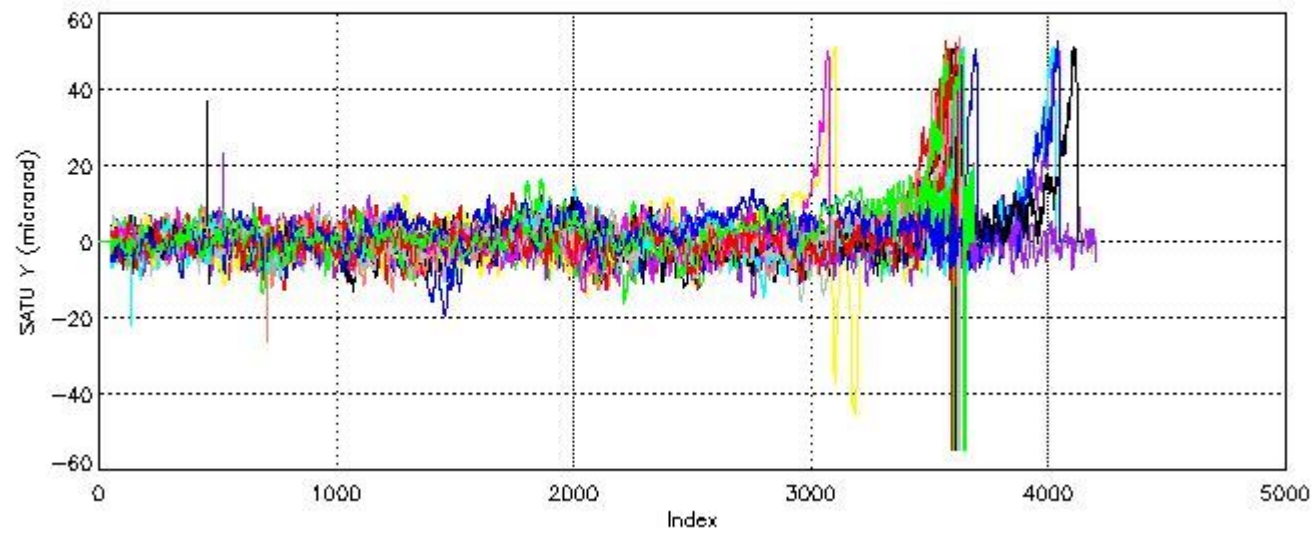
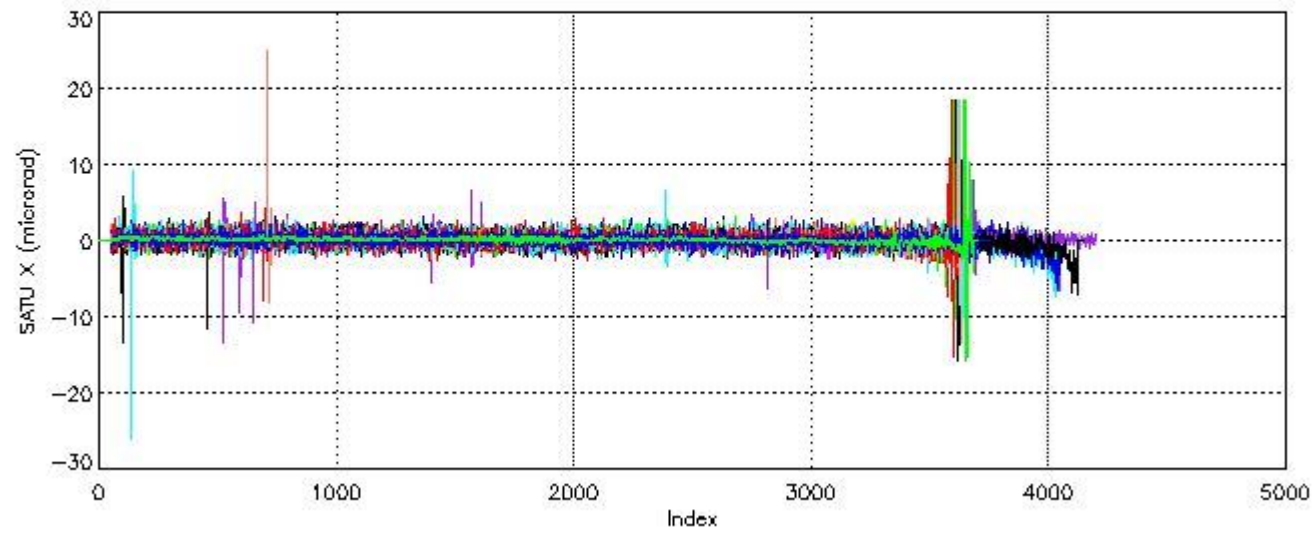


7. Star Acquisition and Tracking Unit (SATU)

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:	0.24834	-0.096960	0.26840	-0.18934
St. deviation:	0.58578	3.0235	0.93682	3.6005
Maximum:	25.000	36.800	5.9000	17.000
Minimum:	-26.100	-26.400	-5.6000	-17.300

Number of data:	25200.	25200.	41200.	41200.
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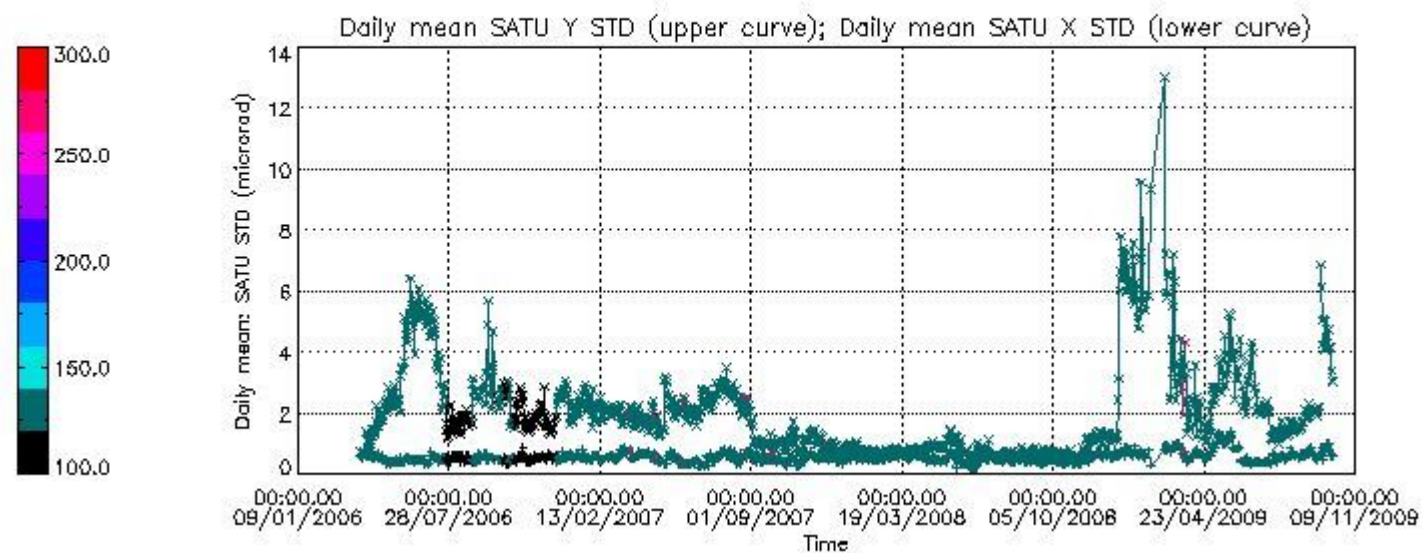
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

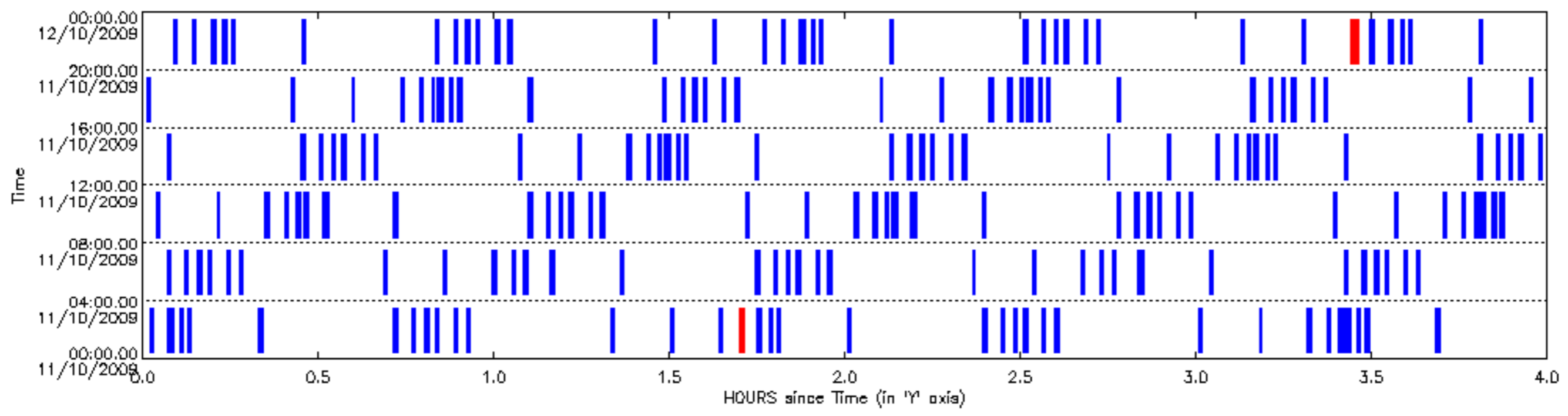
Lower curve: STD of SATU X axis

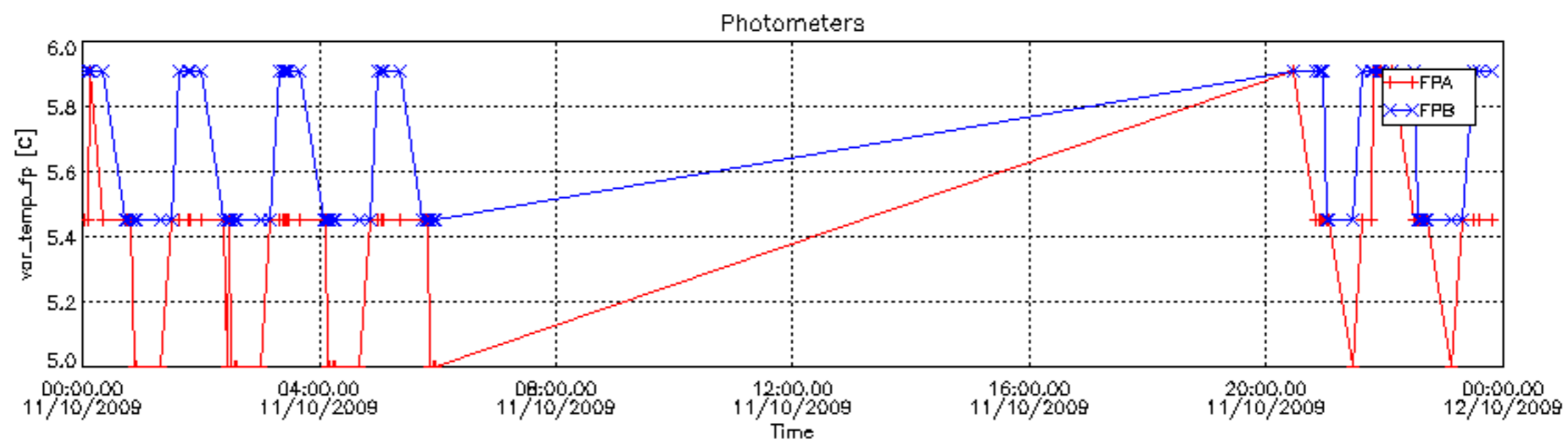
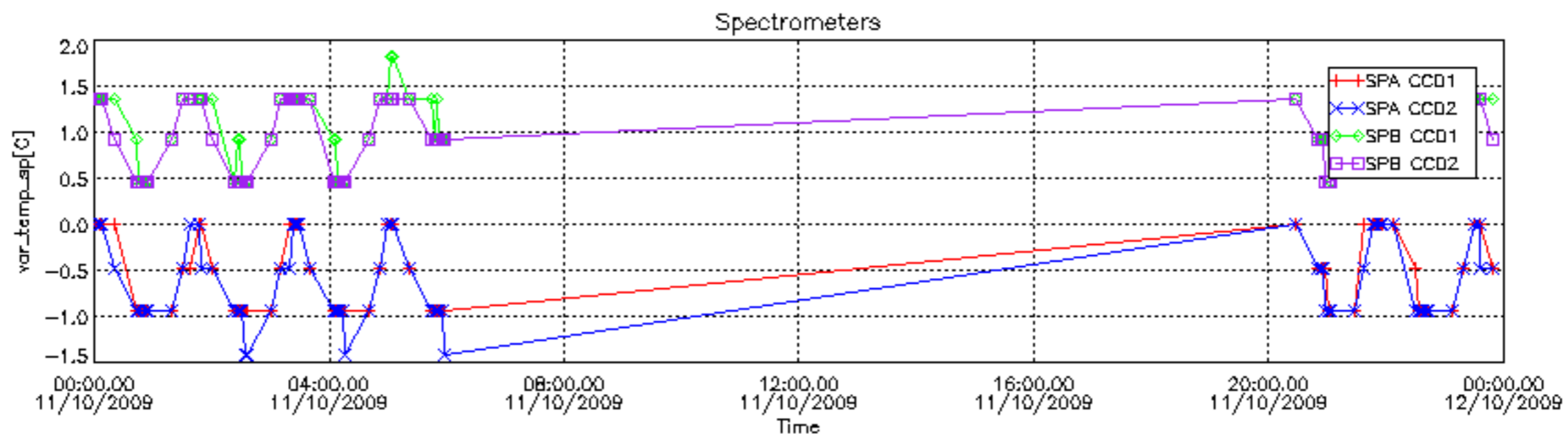


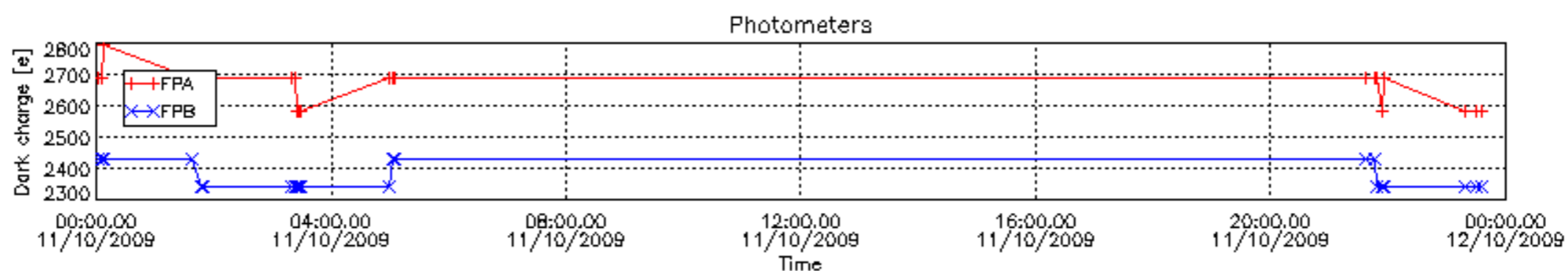
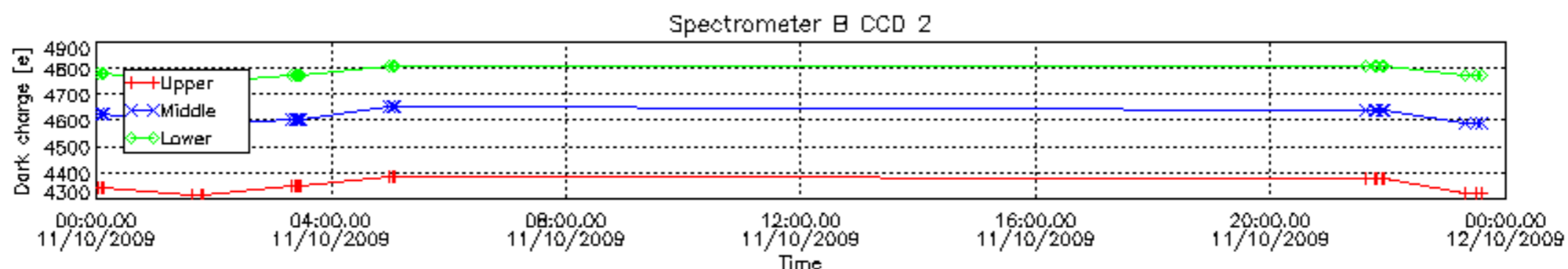
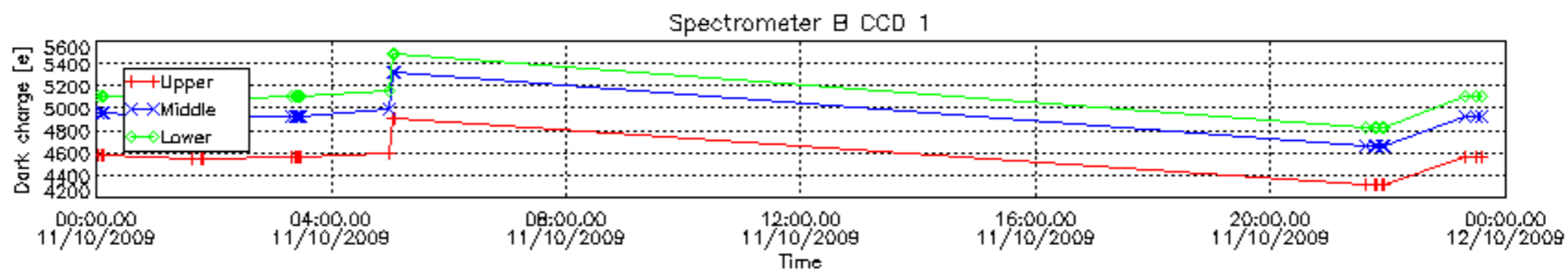
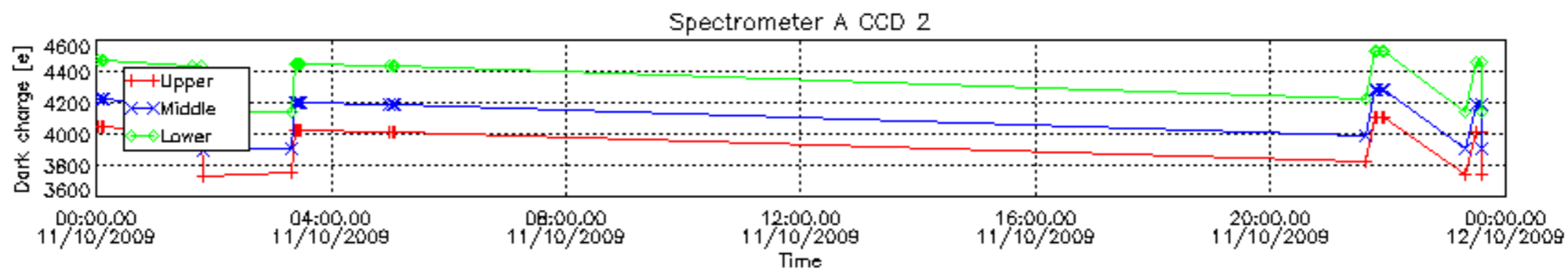
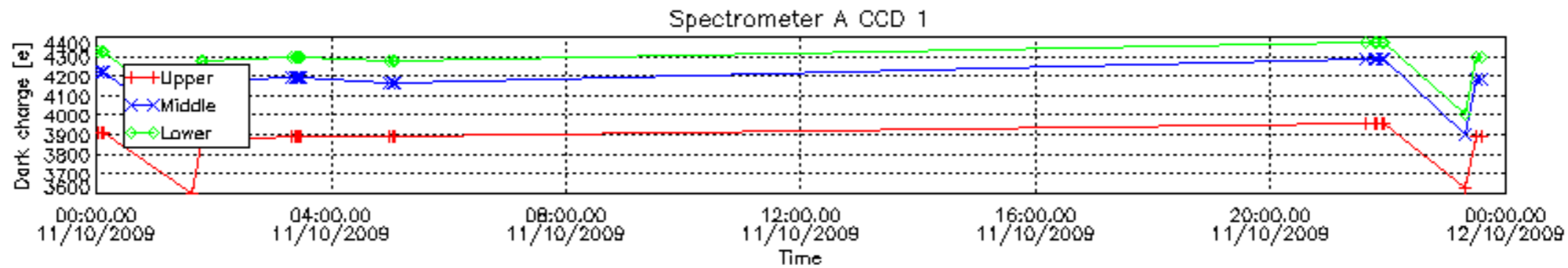
8. Auxiliary Data Files used for the production reported in section 2.4

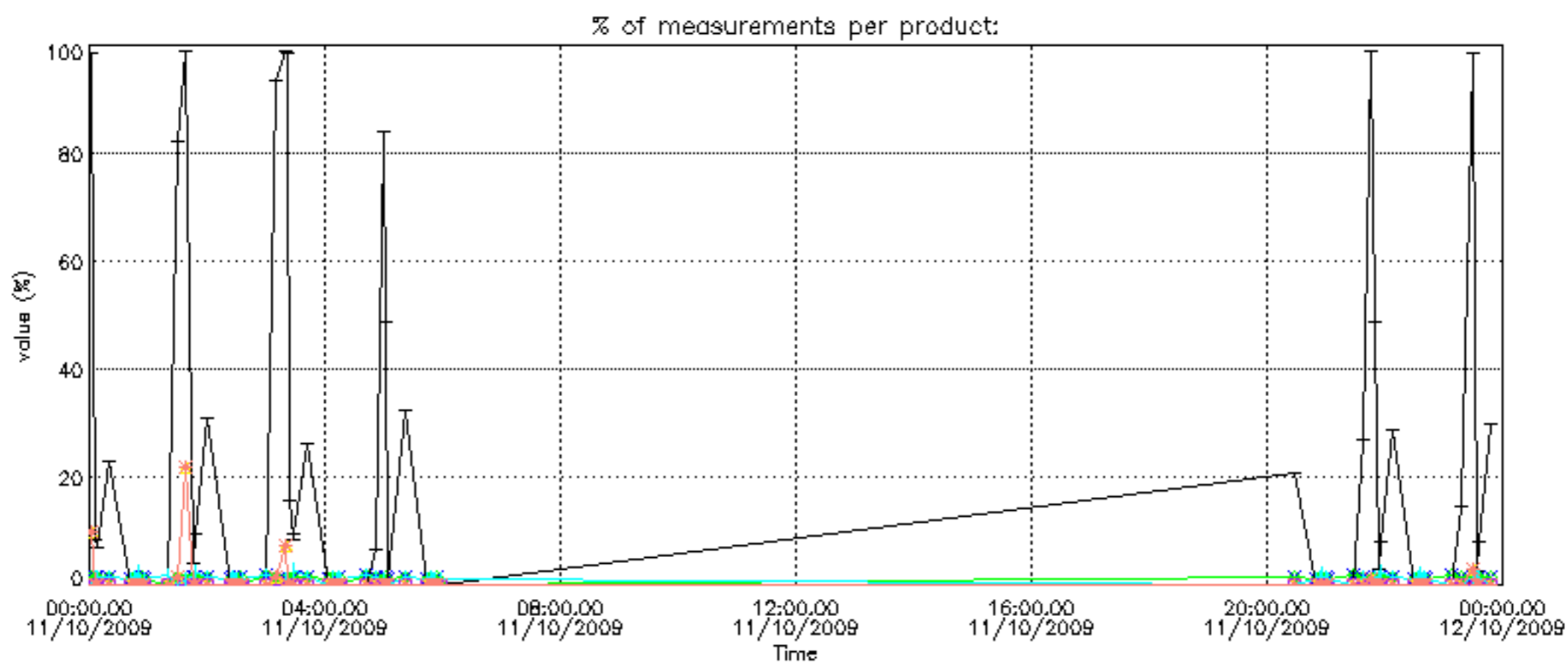
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

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LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	11-OCT-2009 00:01:09
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	11-OCT-2009 00:01:09
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	11-OCT-2009 00:01:09
ECMWF_FILE	AUX_ECF_AXNECM20091010_064112_20091010_210000_20091011_090000	1	11-OCT-2009 00:01:09
ECMWF_FILE	AUX_ECF_AXNECM20091010_182112_20091011_030000_20091011_150000	23	11-OCT-2009 03:00:34
ECMWF_FILE	AUX_ECF_AXNECM20091011_062112_20091011_150000_20091012_030000	49	11-OCT-2009 20:27:06
ECMWF_FILE	AUX_ECF_AXNECM20091011_062113_20091011_210000_20091012_090000	57	11-OCT-2009 21:37:29
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ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091011_042232_000057382083_00176_39809_8944.N1	37	11-OCT-2009 04:41:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091011_202412_000038252083_00186_39819_8945.N1	49	11-OCT-2009 20:27:06
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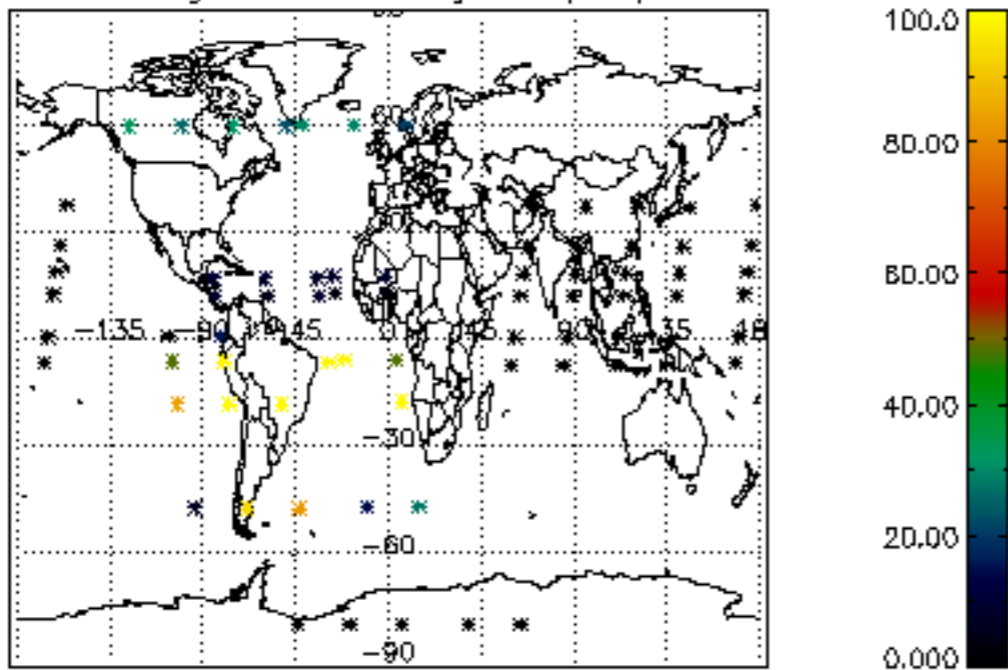




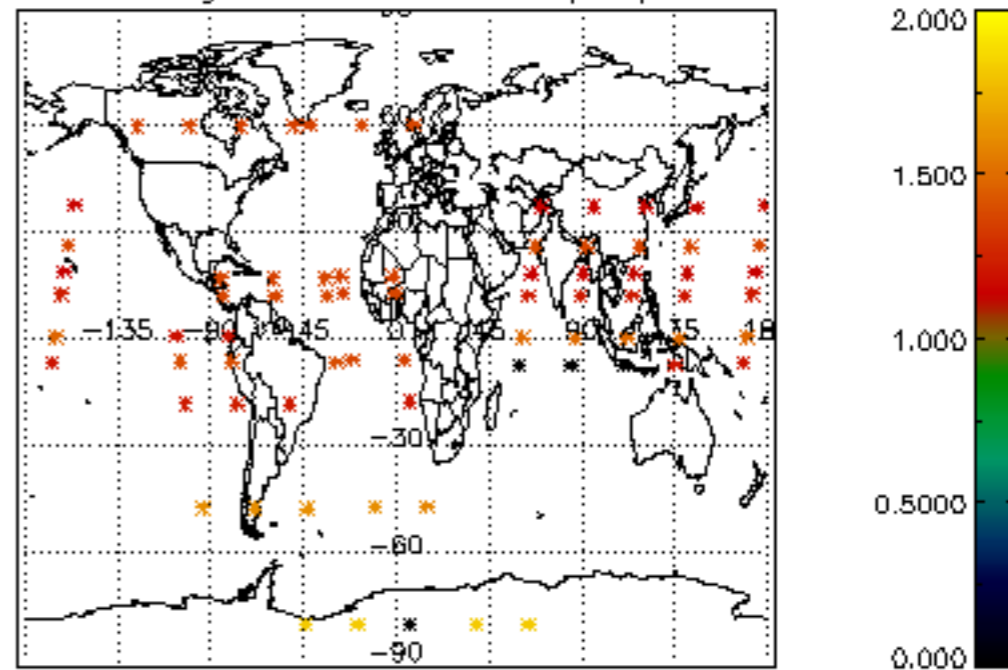




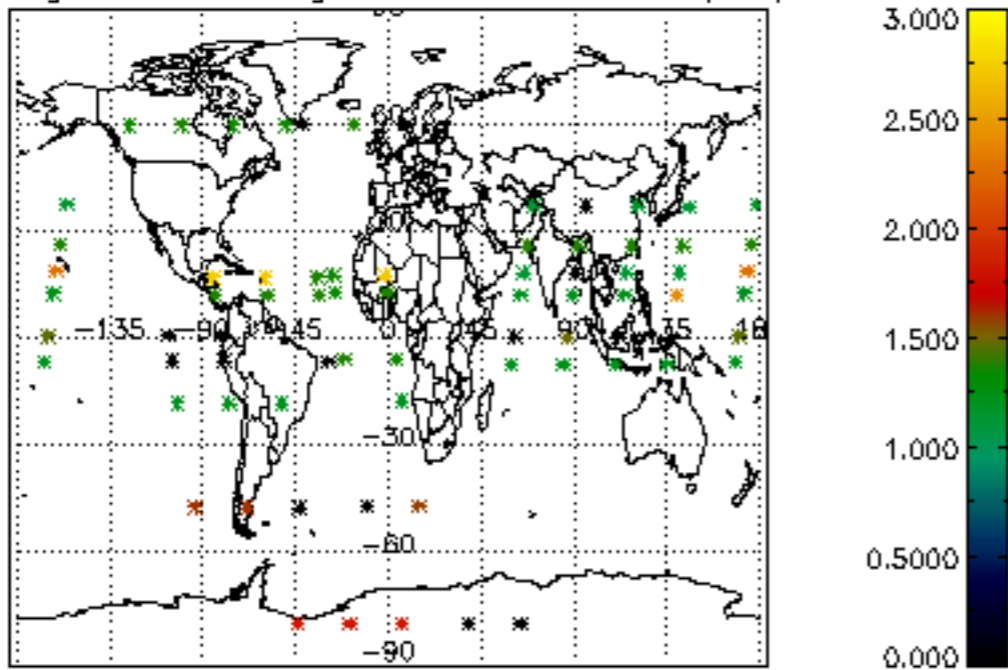
Percentage of cosmic ray hits per profile



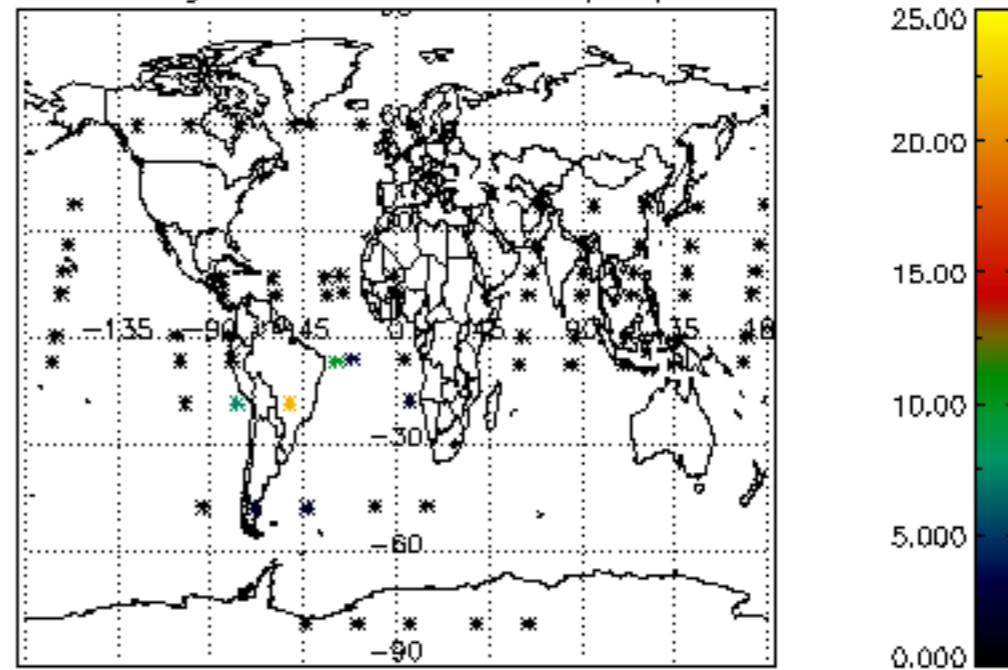
Percentage of datation errors per profile



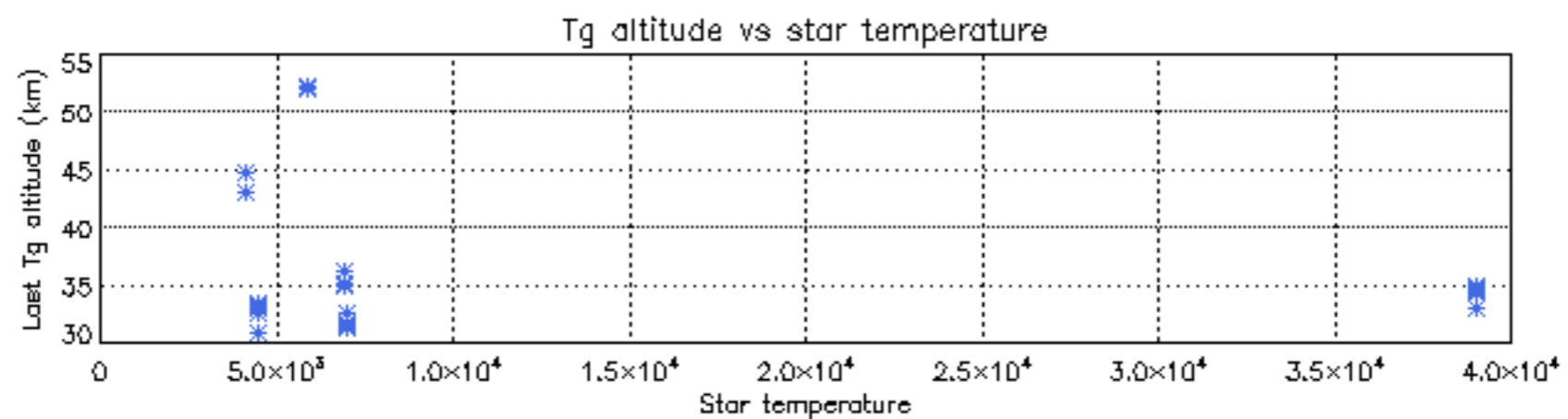
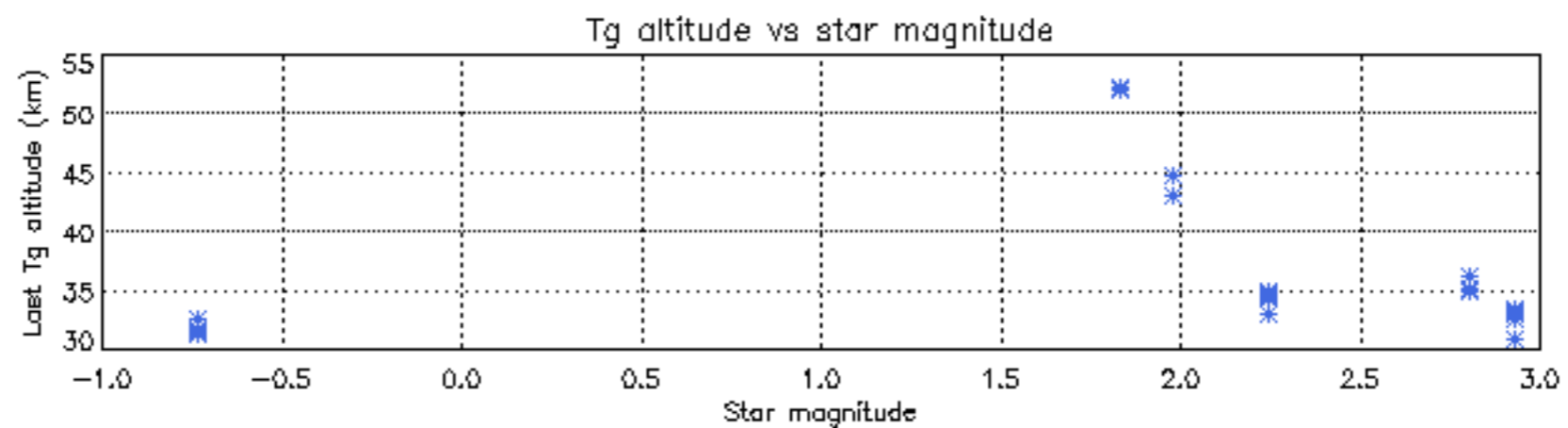
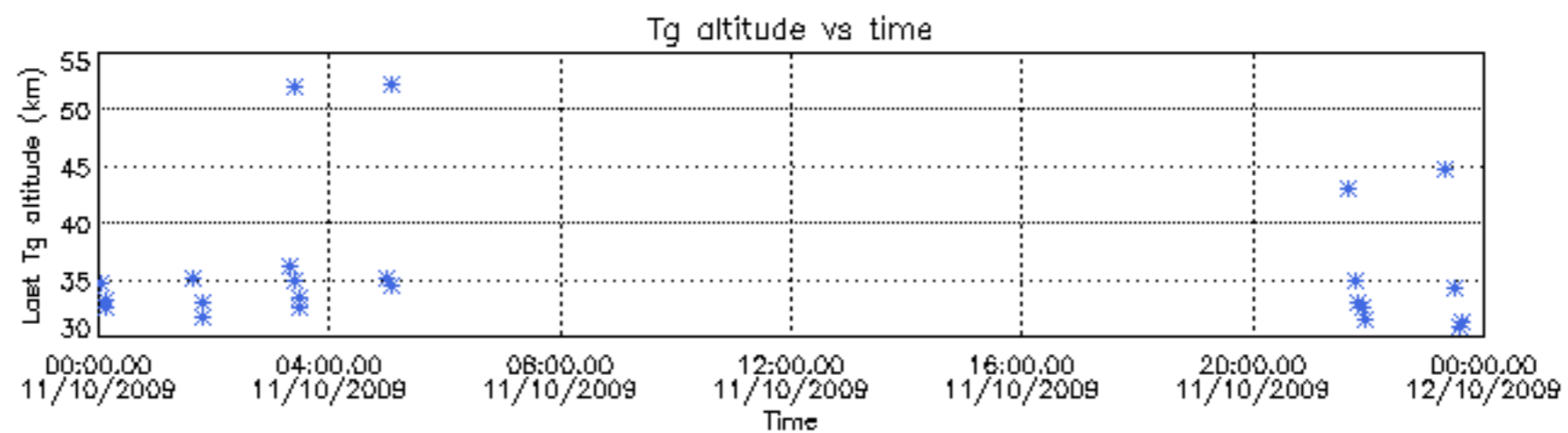
Percentage of star falling outside central band per profile



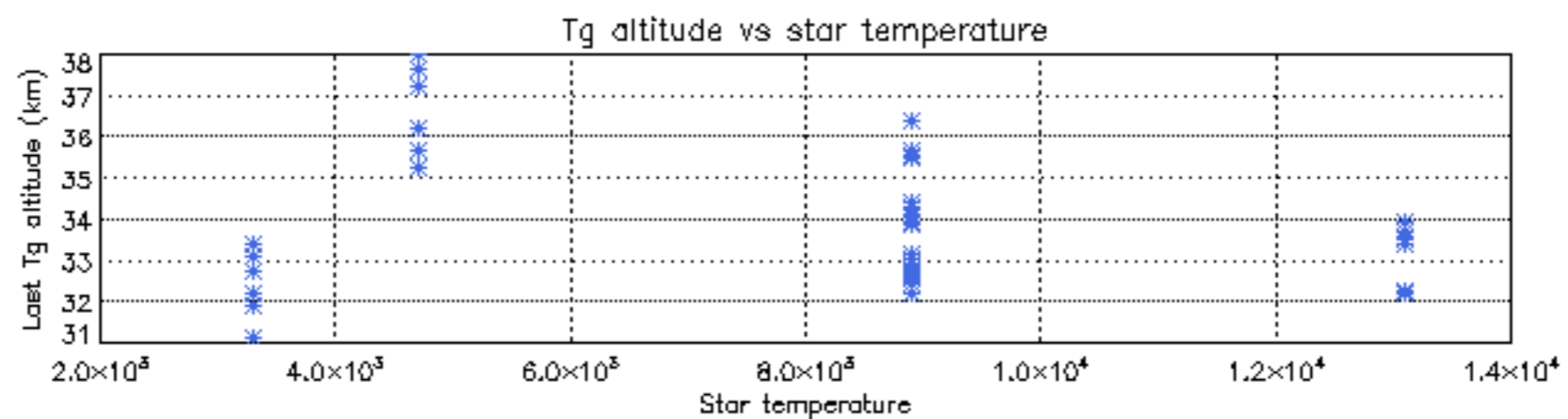
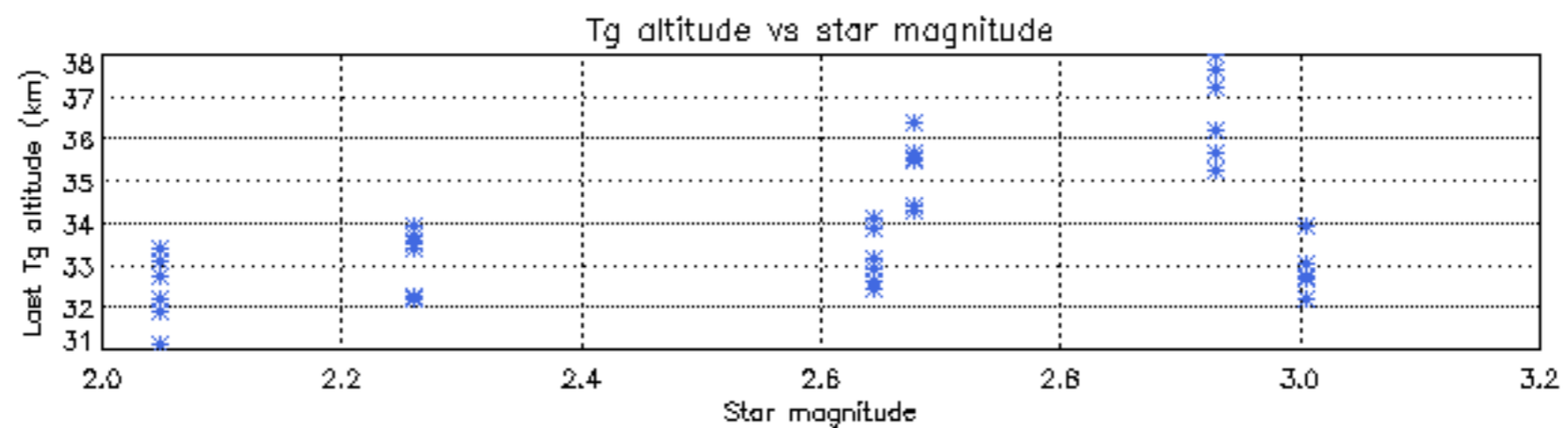
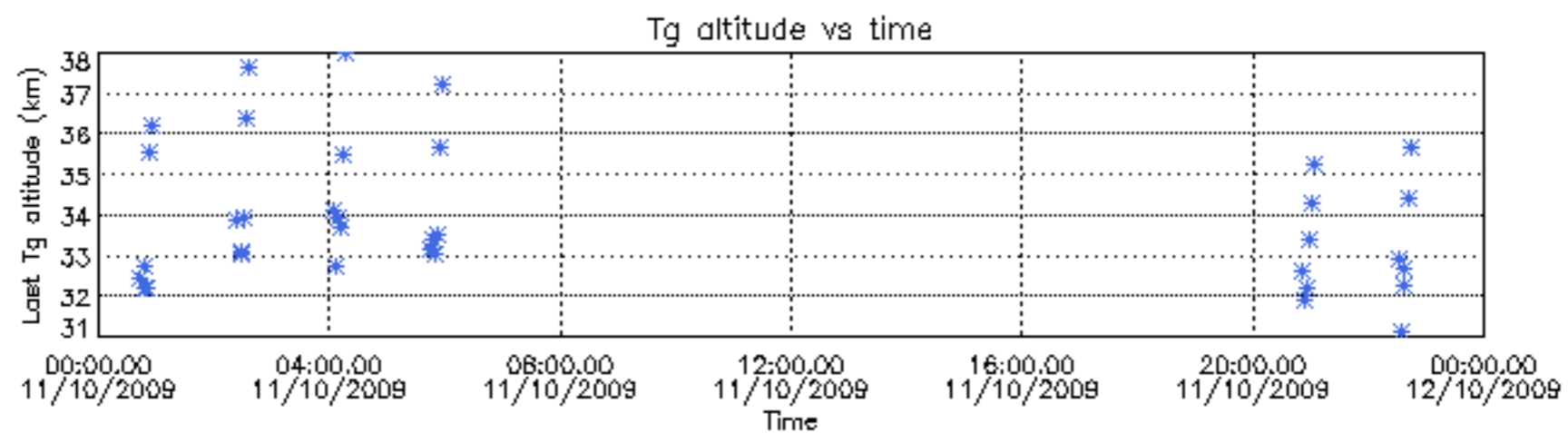
Percentage of saturation errors per profile



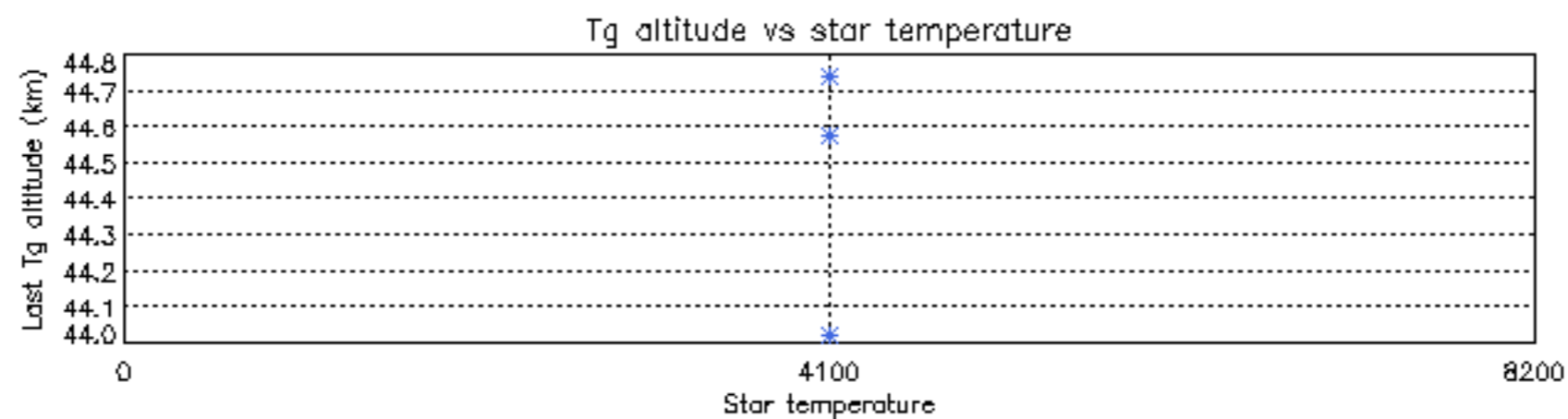
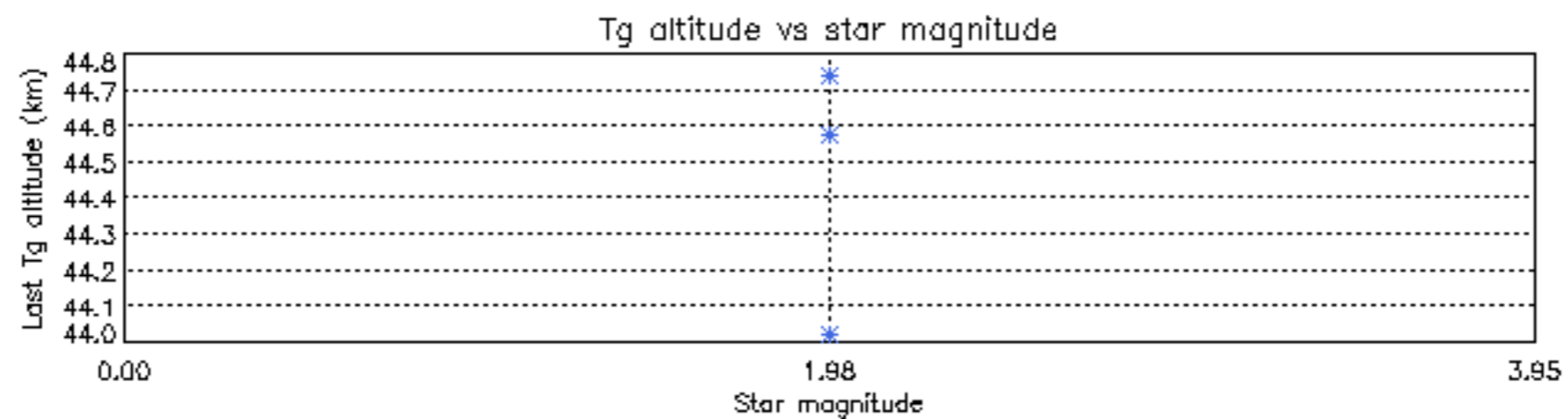
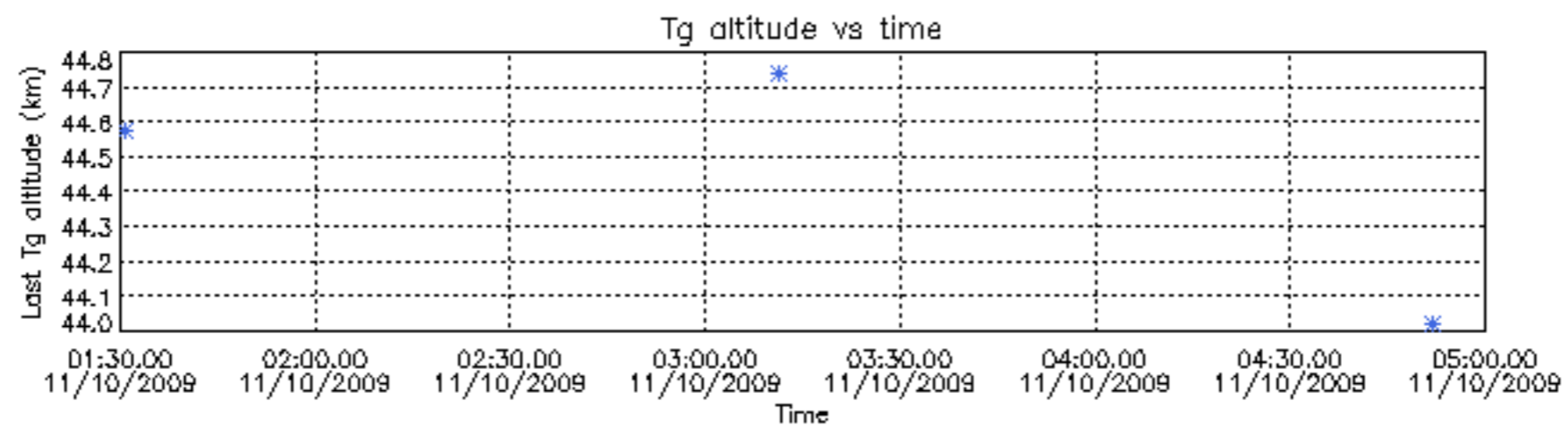
Tangent altitude at which the star is lost

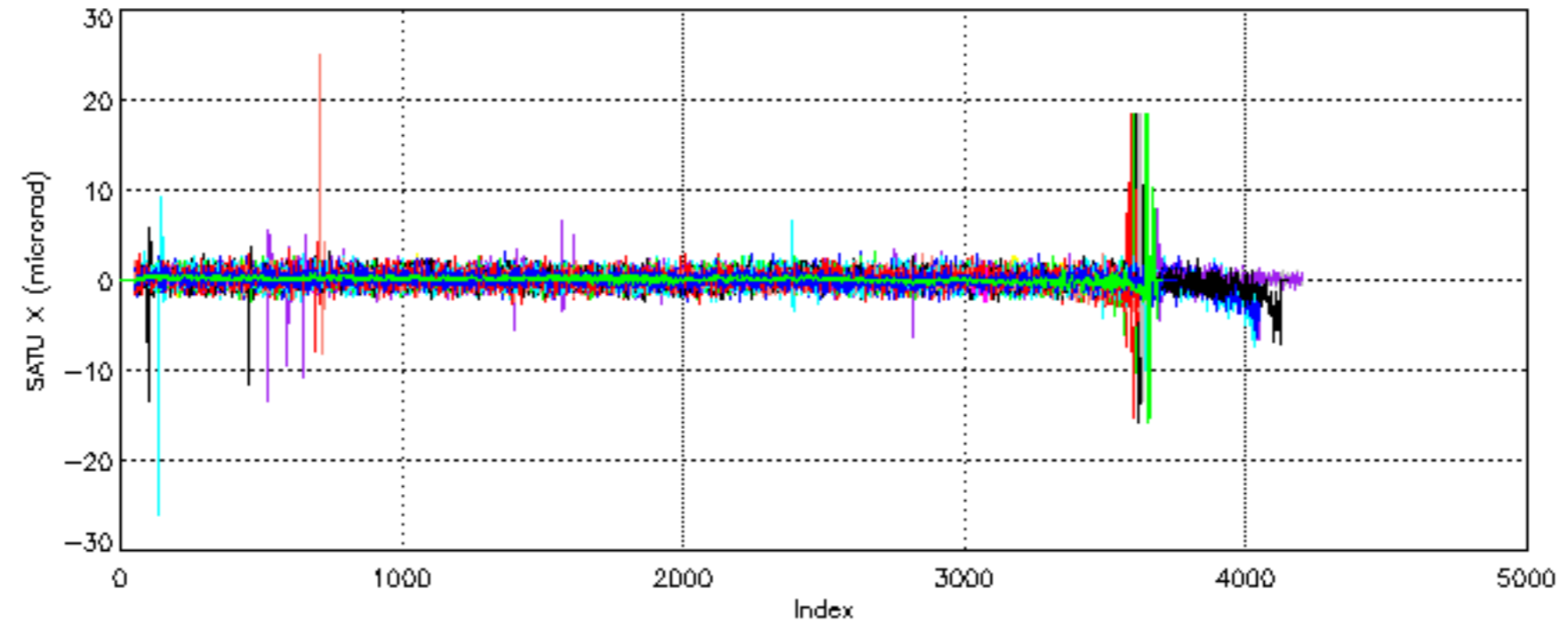


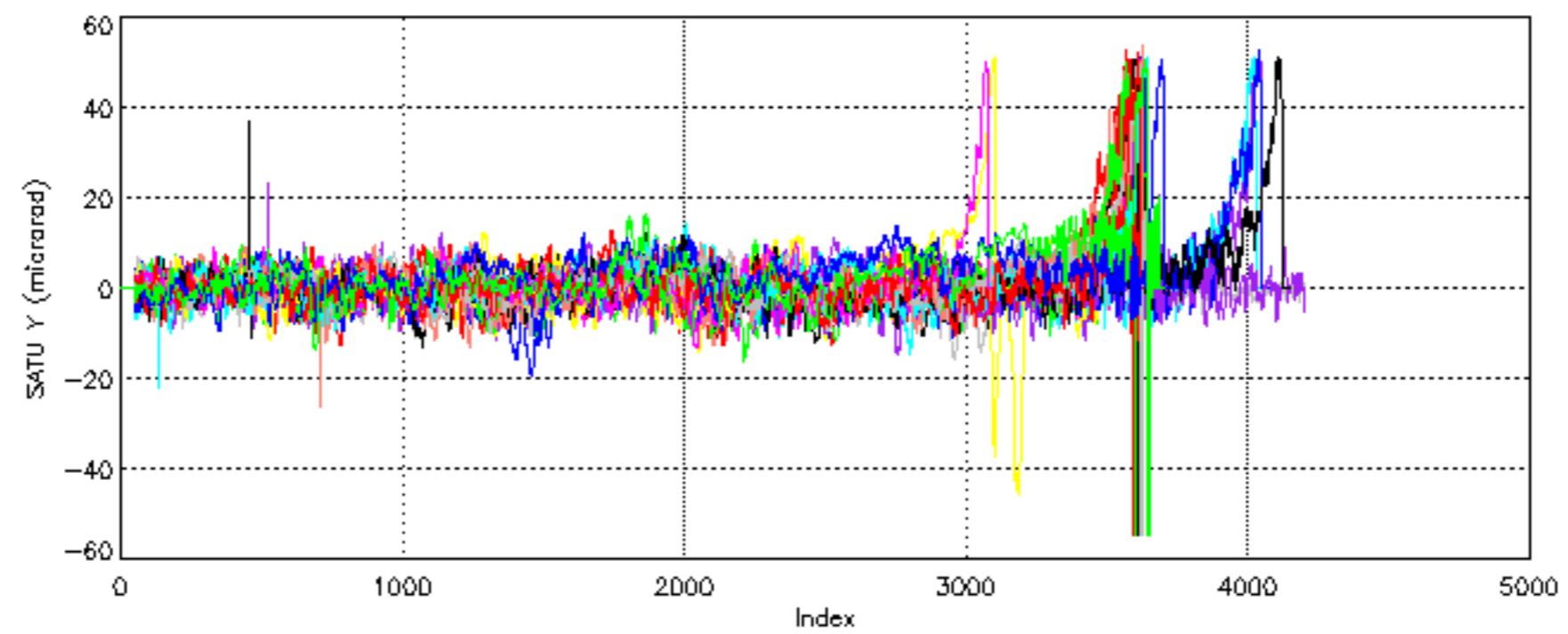
Tangent altitude at which the star is lost

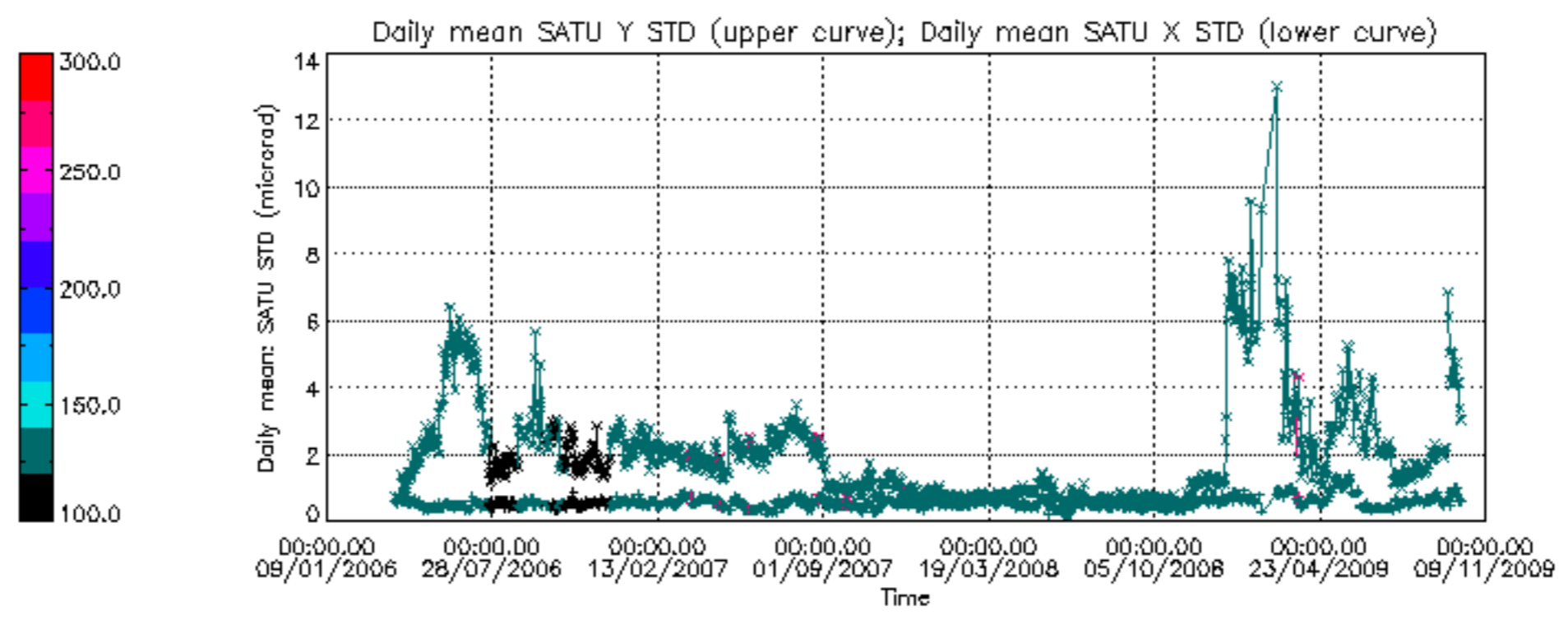


Tangent altitude at which the star is lost









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2; 265.1; 25-OCT-2009 21:14:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40020
3; 455.1; 25-OCT-2009 21:18:08; Dark ; 48.5; 2; Alp Car ;-0.74; 7000;occ; 97; 0;40020
4; 2690.9; 25-OCT-2009 21:55:24; Bright; 15.0; 73; 57Gam1And ; 2.26; 13100;occ; 30; 0;40020
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2; 455.6; 25-OCT-2009 22:58:45; Dark ; 49.0; 2; Alp Car ;-0.74; 7000;occ; 98; 0;40021
3; 2570.6; 25-OCT-2009 23:34:00; Bright; 41.5; 173; 4Bet Tri ; 3.00; 8900;occ; 83; 0;40021
4; 2690.4; 25-OCT-2009 23:35:59; Bright; 41.0; 73; 57Gam1And ; 2.26; 13100;occ; 82; 0;40021
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2; 110.8; 25-OCT-2009 07:47:37; Dark ; 6.0; 34; Gam2Vel ; 1.79; 23000;occ; 12; 0;40012
3; 257.6; 25-OCT-2009 07:50:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40012
4; 448.1; 25-OCT-2009 07:53:14; Dark ; 6.0; 2; Alp Car ;-0.74; 7000;occ; 12; 0;40012
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2; 2574.2; 25-OCT-2009 08:28:40; Bright; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;40012
3; 2693.6; 25-OCT-2009 08:30:39; Bright; 12.0; 73; 57Gam1And ; 2.26; 13100;occ; 24; 0;40012
4; 6484.7; 25-OCT-2009 09:33:50; Dark ; 16.0; 2; Alp Car ;-0.74; 7000;occ; 32; 0;40012
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2; 2573.8; 25-OCT-2009 10:09:15; Bright; 40.5; 173; 4Bet Tri ; 3.00; 8900;occ; 81; 0;40013
3; 2693.0; 25-OCT-2009 10:11:15; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;40013
4; 6485.7; 25-OCT-2009 11:14:27; Dark ; 49.5; 2; Alp Car ;-0.74; 7000;occ; 99; 0;40013
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2; 2573.4; 25-OCT-2009 11:49:51; Bright; 39.0; 173; 4Bet Tri ; 3.00; 8900;occ; 78; 0;40014
3; 2693.0; 25-OCT-2009 11:51:51; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;40014
4; 6149.4; 25-OCT-2009 12:49:27; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;40014
5; 6296.2; 25-OCT-2009 12:51:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40014
6; 6486.4; 25-OCT-2009 12:55:04; Dark ; 47.5; 2; Alp Car ;-0.74; 7000;occ; 95; 0;40014
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2; 2573.1; 25-OCT-2009 13:30:26; Bright; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;40015
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; 2572.2; 25-OCT-2009 16:51:38; Bright; 43.0; 173; 4Bet Tri ; 3.00; 8900;occ; 86; 0;40017
3; 2692.0; 25-OCT-2009 16:53:37; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;40017
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2; 2690.0; 26-OCT-2009 01:16:35; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;40022
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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; 2568.9; 26-OCT-2009 06:16:22; Bright; 2.0; 173; 4Bet Tri ; 3.00; 8900;occ; 4; 0;40025
3; 2688.2; 26-OCT-2009 06:18:21; Bright; 3.5; 73; 57Gam1And ; 2.26; 13100;occ; 7; 0;40025
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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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2; 2687.5; 26-OCT-2009 11:20:08; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;40028
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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2; 2687.1; 26-OCT-2009 13:00:43; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;40029
3; 5407.6; 26-OCT-2009 13:46:04; Dark ; 19.5; 48; 30Alp Hya ; 1.98; 4100;occ; 39; 0;40029
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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2; 2686.9; 26-OCT-2009 14:41:19; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;40030
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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2; 2685.9; 26-OCT-2009 18:02:30; Bright; 25.5; 73; 57Gam1And ; 2.26; 13100;occ; 51; 0;40032
3; 6313.3; 26-OCT-2009 19:02:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40032
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3; 278.2; 26-OCT-2009 20:43:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40034
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2; 2681.2; 27-OCT-2009 15:50:12; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;40045
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