

GOMOS Daily Report 12-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 04:33:14
Data source version	GOMOS/5.00L03
Start time of products	12OCT2009 00:11:06
Stop time of products	12OCT2009 23:51:41
Store outputs in DB	Yes
Nb of level 1b prods	91
Nb of prods with errors	0

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

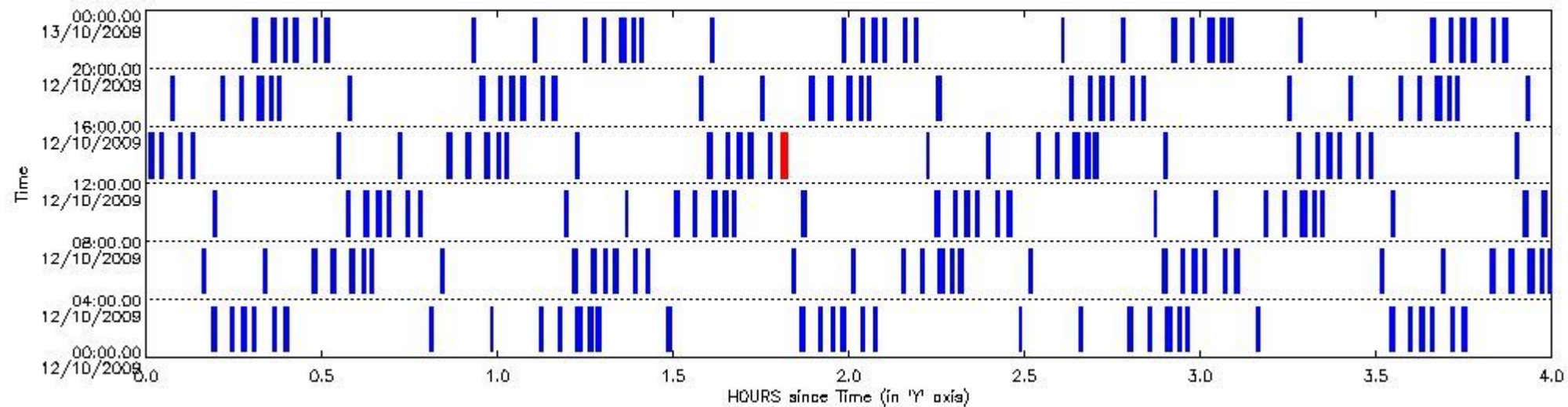
2.1 Level 0 products arrived in PCF (see template [here](#))

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
12-OCT-2009 13:48:15	23GamPer	160	39829

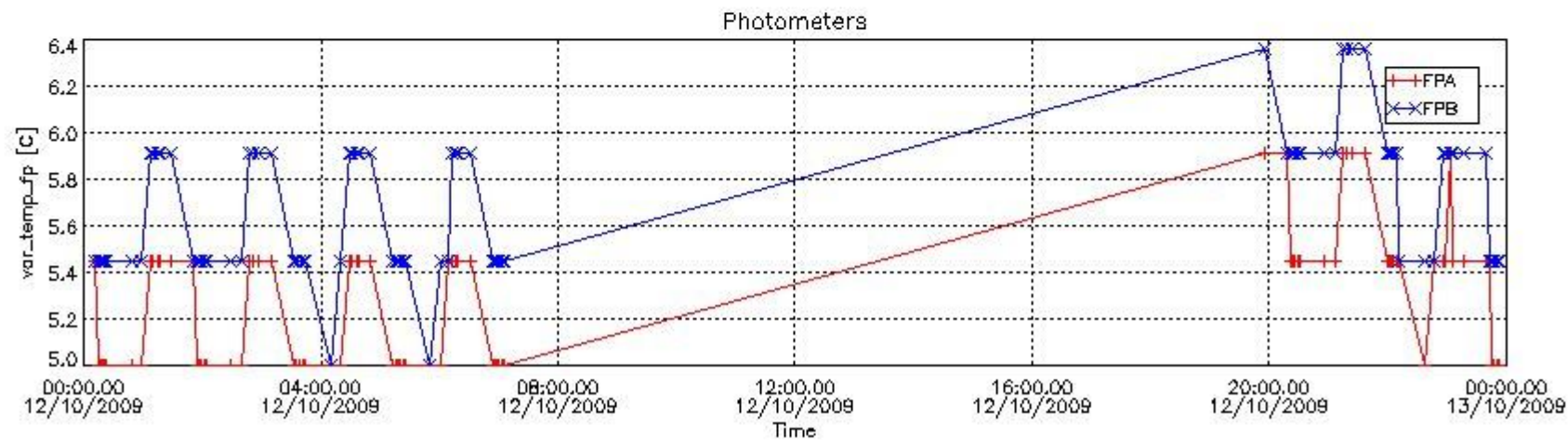
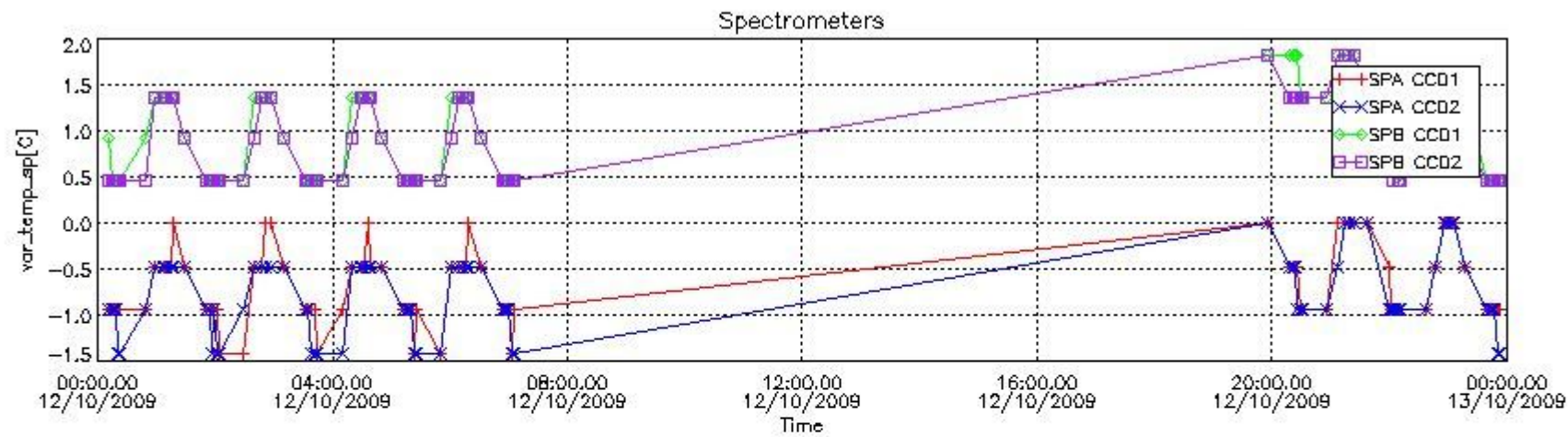
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20091012_001106_000000442083_00188_39821_0442.N1	12-OCT-2009 00:11:06	Bright	43.500	105	6Bet Ari	2.6450	8900.0	87	39821	No
2	GOM_TRA_1PNPDE20091012_001417_000000372083_00188_39821_0443.N1	12-OCT-2009 00:14:17	Bright	36.500	53	43Bet And	2.0480	3300.0	73	39821	No
3	GOM_TRA_1PNPDE20091012_001618_000000442083_00188_39821_0444.N1	12-OCT-2009 00:16:18	Bright	44.000	173	4Bet Tri	3.0040	8900.0	88	39821	No
4	GOM_TRA_1PNPDE20091012_001804_000000412083_00188_39821_0445.N1	12-OCT-2009 00:18:04	Bright	41.000	73	57Gam1And	2.2600	13100.	82	39821	No
5	GOM_TRA_1PNPDE20091012_002128_000000342083_00188_39821_0446.N1	12-OCT-2009 00:21:28	Bright	34.000	110	37Del Cas	2.6780	8900.0	68	39821	No
6	GOM_TRA_1PNPDE20091012_002329_000000422083_00188_39821_0447.N1	12-OCT-2009 00:23:29	Bright	41.500	160	23Gam Per	2.9300	4700.0	83	39821	No
7	GOM_TRA_1PNPDE20091012_004824_000000282083_00188_39821_0448.N1	12-OCT-2009 00:48:24	Twilight	28.000	166	17Eps Leo	2.9800	6000.0	56	39821	No
8	GOM_TRA_1PNPDE20091012_005841_000000322083_00188_39821_0445.N1	12-OCT-2009 00:58:41	Dark	32.000	48	30Alp Hya	1.9770	4100.0	64	39821	No
9	GOM_TRA_1PNPDE20091012_010704_000000422083_00188_39821_0446.N1	12-OCT-2009 01:07:04	Dark	42.000	132	15Rho Pup	2.8030	6900.0	84	39821	No
10	GOM_TRA_1PNPDE20091012_011020_000000372083_00188_39821_0447.N1	12-OCT-2009 01:10:20	Dark	37.000	70	Zet Pup	2.2460	39000.	74	39821	No

11	GOM_TRA_1PNPDE20091012_011531_000000382083_00189_39822_0448.N1	12-OCT-2009 01:15:31	Dark	38.000	161	Tau Pup	2.9310	4500.0	76	39822	No
12	GOM_TRA_1PNPDE20091012_011653_000000382083_00189_39822_0449.N1	12-OCT-2009 01:16:53	Dark	37.500	2	Alp Car	-0.73600	7000.0	75	39822	No
13	GOM_TRA_1PNPDE20091012_012855_000000372083_00189_39822_0450.N1	12-OCT-2009 01:28:55	Straylight	37.000	157	The1Eri	2.9060	9300.0	74	39822	No
14	GOM_TRA_1PNPDE20091012_015141_000000442083_00189_39822_0451.N1	12-OCT-2009 01:51:41	Bright	43.500	105	6Bet Ari	2.6450	8900.0	87	39822	No
15	GOM_TRA_1PNPDE20091012_015453_000000372083_00189_39822_0452.N1	12-OCT-2009 01:54:53	Bright	36.500	53	43Bet And	2.0480	3300.0	73	39822	No
16	GOM_TRA_1PNPDE20091012_015653_000000452083_00189_39822_0453.N1	12-OCT-2009 01:56:53	Bright	44.500	173	4Bet Tri	3.0040	8900.0	89	39822	No
17	GOM_TRA_1PNPDE20091012_015840_000000412083_00189_39822_0454.N1	12-OCT-2009 01:58:40	Bright	41.000	73	57Gam1And	2.2600	13100.	82	39822	No
18	GOM_TRA_1PNPDE20091012_020204_000000342083_00189_39822_0455.N1	12-OCT-2009 02:02:04	Bright	34.000	110	37Del Cas	2.6780	8900.0	68	39822	No
19	GOM_TRA_1PNPDE20091012_020405_000000412083_00189_39822_0456.N1	12-OCT-2009 02:04:05	Bright	41.000	160	23Gam Per	2.9300	4700.0	82	39822	No
20	GOM_TRA_1PNPDE20091012_022900_000000282083_00189_39822_0455.N1	12-OCT-2009 02:29:00	Twi_and_stray	28.000	166	17Eps Leo	2.9800	6000.0	56	39822	No
21	GOM_TRA_1PNPDE20091012_023918_000000322083_00189_39822_0456.N1	12-OCT-2009 02:39:18	Dark	31.500	48	30Alp Hya	1.9770	4100.0	63	39822	No
22	GOM_TRA_1PNPDE20091012_024742_000000422083_00189_39822_0457.N1	12-OCT-2009 02:47:42	Dark	42.000	132	15Rho Pup	2.8030	6900.0	84	39822	No
23	GOM_TRA_1PNPDE20091012_025057_000000372083_00189_39822_0458.N1	12-OCT-2009 02:50:57	Dark	37.000	70	Zet Pup	2.2460	39000.	74	39822	No
24	GOM_TRA_1PNPDE20091012_025607_000000382083_00190_39823_0459.N1	12-OCT-2009 02:56:07	Dark	37.500	161	Tau Pup	2.9310	4500.0	75	39823	No
25	GOM_TRA_1PNPDE20091012_025730_000000382083_00190_39823_0460.N1	12-OCT-2009 02:57:30	Dark	37.500	2	Alp Car	-0.73600	7000.0	75	39823	No
26	GOM_TRA_1PNPDE20091012_030932_000000372083_00190_39823_0461.N1	12-OCT-2009 03:09:32	Straylight	37.000	157	The1Eri	2.9060	9300.0	74	39823	No
27	GOM_TRA_1PNPDE20091012_033217_000000442083_00190_39823_0462.N1	12-OCT-2009 03:32:17	Bright	43.500	105	6Bet Ari	2.6450	8900.0	87	39823	No
28	GOM_TRA_1PNPDE20091012_033528_000000372083_00190_39823_0463.N1	12-OCT-2009 03:35:28	Bright	36.500	53	43Bet And	2.0480	3300.0	73	39823	No
29	GOM_TRA_1PNPDE20091012_033728_000000452083_00190_39823_0464.N1	12-OCT-2009 03:37:28	Bright	44.500	173	4Bet Tri	3.0040	8900.0	89	39823	No
30	GOM_TRA_1PNPDE20091012_033915_000000422083_00190_39823_0465.N1	12-OCT-2009 03:39:15	Bright	41.500	73	57Gam1And	2.2600	13100.	83	39823	No
31	GOM_TRA_1PNPDE20091012_034239_000000342083_00190_39823_0466.N1	12-OCT-2009 03:42:39	Bright	34.000	110	37Del Cas	2.6780	8900.0	68	39823	No
32	GOM_TRA_1PNPDE20091012_034440_000000412083_00190_39823_0467.N1	12-OCT-2009 03:44:40	Bright	41.000	160	23Gam Per	2.9300	4700.0	82	39823	No
33	GOM_TRA_1PNPDE20091012_040936_000000282083_00190_39823_0460.N1	12-OCT-2009 04:09:36	Twi_and_stray	28.000	166	17Eps Leo	2.9800	6000.0	56	39823	No
34	GOM_TRA_1PNPDE20091012_041955_000000322083_00190_39823_0461.N1	12-OCT-2009 04:19:55	Dark	32.000	48	30Alp Hya	1.9770	4100.0	64	39823	No
35	GOM_TRA_1PNPDE20091012_042819_000000422083_00190_39823_0462.N1	12-OCT-2009 04:28:19	Dark	42.000	132	15Rho Pup	2.8030	6900.0	84	39823	No
36	GOM_TRA_1PNPDE20091012_043134_000000372083_00190_39823_0463.N1	12-OCT-2009 04:31:34	Dark	37.000	70	Zet Pup	2.2460	39000.	74	39823	No
37	GOM_TRA_1PNPDE20091012_043644_000000372083_00191_39824_0464.N1	12-OCT-2009 04:36:44	Dark	37.000	161	Tau Pup	2.9310	4500.0	74	39824	No
38	GOM_TRA_1PNPDE20091012_043806_000000382083_00191_39824_0465.N1	12-OCT-2009 04:38:06	Dark	37.500	2	Alp Car	-0.73600	7000.0	75	39824	No
39	GOM_TRA_1PNPDE20091012_045008_000000372083_00191_39824_0466.N1	12-OCT-2009 04:50:08	Straylight	36.500	157	The1Eri	2.9060	9300.0	73	39824	No
40	GOM_TRA_1PNPDE20091012_051252_000000432083_00191_39824_0467.N1	12-OCT-2009 05:12:52	Bright	43.000	105	6Bet Ari	2.6450	8900.0	86	39824	No
41	GOM_TRA_1PNPDE20091012_051604_000000362083_00191_39824_0468.N1	12-OCT-2009 05:16:04	Bright	36.000	53	43Bet And	2.0480	3300.0	72	39824	No
42	GOM_TRA_1PNPDE20091012_051804_000000442083_00191_39824_0469.N1	12-OCT-2009 05:18:04	Bright	43.500	173	4Bet Tri	3.0040	8900.0	87	39824	No
43	GOM_TRA_1PNPDE20091012_051950_000000412083_00191_39824_0470.N1	12-OCT-2009 05:19:50	Bright	41.000	73	57Gam1And	2.2600	13100.	82	39824	No
44	GOM_TRA_1PNPDE20091012_052315_000000342083_00191_39824_0471.N1	12-OCT-2009 05:23:15	Bright	33.500	110	37Del Cas	2.6780	8900.0	67	39824	No
45	GOM_TRA_1PNPDE20091012_052515_000000412083_00191_39824_0472.N1	12-OCT-2009 05:25:15	Bright	40.500	160	23Gam Per	2.9300	4700.0	81	39824	No
46	GOM_TRA_1PNPDE20091012_055013_000000282083_00191_39824_0471.N1	12-OCT-2009 05:50:13	Twi_and_stray	28.000	166	17Eps Leo	2.9800	6000.0	56	39824	No
47	GOM_TRA_1PNPDE20091012_060031_000000322083_00191_39824_0472.N1	12-OCT-2009 06:00:31	Dark	31.500	48	30Alp Hya	1.9770	4100.0	63	39824	No
48	GOM_TRA_1PNPDE20091012_060856_000000422083_00191_39824_0473.N1	12-OCT-2009 06:08:56	Dark	41.500	132	15Rho Pup	2.8030	6900.0	83	39824	No
49	GOM_TRA_1PNPDE20091012_061211_000000372083_00191_39824_0474.N1	12-OCT-2009 06:12:11	Dark	36.500	70	Zet Pup	2.2460	39000.	73	39824	No
50	GOM_TRA_1PNPDE20091012_061721_000000382083_00192_39825_0475.N1	12-OCT-2009 06:17:21	Dark	37.500	161	Tau Pup	2.9310	4500.0	75	39825	No
51	GOM_TRA_1PNPDE20091012_061843_000000372083_00192_39825_0476.N1	12-OCT-2009 06:18:43	Dark	37.000	2	Alp Car	-0.73600	7000.0	74	39825	No
52	GOM_TRA_1PNPDE20091012_063045_000000372083_00192_39825_0477.N1	12-OCT-2009 06:30:45	Straylight	36.500	157	The1Eri	2.9060	9300.0	73	39825	No
53	GOM_TRA_1PNPDE20091012_065327_000000432083_00192_39825_0478.N1	12-OCT-2009 06:53:27	Bright	43.000	105	6Bet Ari	2.6450	8900.0	86	39825	No
54	GOM_TRA_1PNPDE20091012_065639_000000372083_00192_39825_0479.N1	12-OCT-2009 06:56:39	Bright	36.500	53	43Bet And	2.0480	3300.0	73	39825	No
55	GOM_TRA_1PNPDE20091012_065839_000000442083_00192_39825_0480.N1	12-OCT-2009 06:58:39	Bright	44.000	173	4Bet Tri	3.0040	8900.0	88	39825	No
56	GOM_TRA_1PNPDE20091012_070025_000000412083_00192_39825_0481.N1	12-OCT-2009 07:00:25	Bright	41.000	73	57Gam1And	2.2600	13100.	82	39825	No
57	GOM_TRA_1PNPDE20091012_070351_000000342083_00192_39825_0482.N1	12-OCT-2009 07:03:51	Bright	33.500	110	37Del Cas	2.6780	8900.0	67	39825	No
58	GOM_TRA_1PNPDE20091012_070550_000000412083_00192_39825_0483.N1	12-OCT-2009 07:05:50	Bright	40.500	160	23Gam Per	2.9300	4700.0	81	39825	No
59	GOM_TRA_1PNPDE20091012_195536_000000372083_00200_39833_0533.N1	12-OCT-2009 19:55:36	Straylight	36.500	157	The1Eri	2.9060	9300.0	73	39833	No
60	GOM_TRA_1PNPDE20091012_201810_000000422083_00200_39833_0534.N1	12-OCT-2009 20:18:10	Bright	42.000	105	6Bet Ari	2.6450	8900.0	84	39833	No
61	GOM_TRA_1PNPDE20091012_202124_000000362083_00200_39833_0535.N1	12-OCT-2009 20:21:24	Bright	36.000	53	43Bet And	2.0480	3300.0	72	39833	No
62	GOM_TRA_1PNPDE20091012_202320_000000442083_00200_39833_0536.N1	12-OCT-2009 20:23:20	Bright	43.500	173	4Bet Tri	3.0040	8900.0	87	39833	No
63	GOM_TRA_1PNPDE20091012_202507_000000412083_00200_39833_0537.N1	12-OCT-2009 20:25:07	Bright	40.500	73	57Gam1And	2.2600	13100.	81	39833	No
64	GOM_TRA_1PNPDE20091012_202835_000000342083_00200_39833_0538.N1	12-OCT-2009 20:28:35	Bright	33.500	110	37Del Cas	2.6780	8900.0	67	39833	No
65	GOM_TRA_1PNPDE20091012_203031_000000412083_00200_39833_0539.N1	12-OCT-2009 20:30:31	Bright	40.500	160	23Gam Per	2.9300	4700.0	81	39833	No
66	GOM_TRA_1PNPDE20091012_205538_000000282083_00200_39833_0540.N1	12-OCT-2009 20:55:38	Twi_and_stray	28.000	166	17Eps Leo	2.9800	6000.0	56	39833	No
67	GOM_TRA_1PNPDE20091012_210600_000000322083_00200_39833_0555.N1	12-OCT-2009 21:06:00	Dark	32.000	48	30Alp Hya	1.9770	4100.0	64	39833	No
68	GOM_TRA_1PNPDE20091012_211430_000000422083_00200_39833_0556.N1	12-OCT-2009 21:14:30	Dark	42.000	132	15Rho Pup	2.8030	6900.0	84	39833	No
69	GOM_TRA_1PNPDE20091012_211742_000000372083_00200_39833_0557.N1	12-OCT-2009 21:17:42	Dark	36.500	70	Zet Pup	2.2460	39000.	73	39833	No

70	GOM_TRA_1PNPDE20091012_212252_000000372083_00201_39834_0558.N1	12-OCT-2009 21:22:52	Dark	37.000	161	Tau Pup	2.9310	4500.0	74	39834	No
71	GOM_TRA_1PNPDE20091012_212414_000000372083_00201_39834_0559.N1	12-OCT-2009 21:24:14	Dark	37.000	2	Alp Car	-0.73600	7000.0	74	39834	No
72	GOM_TRA_1PNPDE20091012_213613_000000362083_00201_39834_0560.N1	12-OCT-2009 21:36:13	Straylight	36.000	157	The1Eri	2.9060	9300.0	72	39834	No
73	GOM_TRA_1PNPDE20091012_215845_000000432083_00201_39834_0561.N1	12-OCT-2009 21:58:45	Bright	42.500	105	6Bet Ari	2.6450	8900.0	85	39834	No
74	GOM_TRA_1PNPDE20091012_220159_000000362083_00201_39834_0562.N1	12-OCT-2009 22:01:59	Bright	36.000	53	43Bet And	2.0480	3300.0	72	39834	No
75	GOM_TRA_1PNPDE20091012_220354_000000442083_00201_39834_0563.N1	12-OCT-2009 22:03:54	Bright	43.500	173	4Bet Tri	3.0040	8900.0	87	39834	No
76	GOM_TRA_1PNPDE20091012_220542_000000412083_00201_39834_0564.N1	12-OCT-2009 22:05:42	Bright	40.500	73	57Gam1And	2.2600	13100.	81	39834	No
77	GOM_TRA_1PNPDE20091012_220911_000000342083_00201_39834_0565.N1	12-OCT-2009 22:09:11	Bright	33.500	110	37Del Cas	2.6780	8900.0	67	39834	No
78	GOM_TRA_1PNPDE20091012_221106_000000412083_00201_39834_0566.N1	12-OCT-2009 22:11:06	Bright	41.000	160	23Gam Per	2.9300	4700.0	82	39834	No
79	GOM_TRA_1PNPDE20091012_223614_000000282083_00201_39834_0567.N1	12-OCT-2009 22:36:14	Twilight_stray	28.000	166	17Eps Leo	2.9800	6000.0	56	39834	No
80	GOM_TRA_1PNPDE20091012_224637_000000322083_00201_39834_0568.N1	12-OCT-2009 22:46:37	Dark	31.500	48	30Alp Hya	1.9770	4100.0	63	39834	No
81	GOM_TRA_1PNPDE20091012_225507_000000432083_00201_39834_0578.N1	12-OCT-2009 22:55:07	Dark	42.500	132	15Rho Pup	2.8030	6900.0	85	39834	No
82	GOM_TRA_1PNPDE20091012_225819_000000372083_00201_39834_0579.N1	12-OCT-2009 22:58:19	Dark	36.500	70	Zet Pup	2.2460	39000.	73	39834	No
83	GOM_TRA_1PNPDE20091012_230329_000000372083_00202_39835_0580.N1	12-OCT-2009 23:03:29	Dark	36.500	161	Tau Pup	2.9310	4500.0	73	39835	No
84	GOM_TRA_1PNPDE20091012_230451_000000372083_00202_39835_0581.N1	12-OCT-2009 23:04:51	Dark	36.500	2	Alp Car	-0.73600	7000.0	73	39835	No
85	GOM_TRA_1PNPDE20091012_231650_000000362083_00202_39835_0582.N1	12-OCT-2009 23:16:50	Straylight	36.000	157	The1Eri	2.9060	9300.0	72	39835	No
86	GOM_TRA_1PNPDE20091012_233920_000000422083_00202_39835_0583.N1	12-OCT-2009 23:39:20	Bright	42.000	105	6Bet Ari	2.6450	8900.0	84	39835	No
87	GOM_TRA_1PNPDE20091012_234235_000000362083_00202_39835_0584.N1	12-OCT-2009 23:42:35	Bright	35.500	53	43Bet And	2.0480	3300.0	71	39835	No
88	GOM_TRA_1PNPDE20091012_234429_000000432083_00202_39835_0585.N1	12-OCT-2009 23:44:29	Bright	43.000	173	4Bet Tri	3.0040	8900.0	86	39835	No
89	GOM_TRA_1PNPDE20091012_234617_000000402083_00202_39835_0586.N1	12-OCT-2009 23:46:17	Bright	40.000	73	57Gam1And	2.2600	13100.	80	39835	No
90	GOM_TRA_1PNPDE20091012_234946_000000342083_00202_39835_0587.N1	12-OCT-2009 23:49:46	Bright	33.500	110	37Del Cas	2.6780	8900.0	67	39835	No
91	GOM_TRA_1PNPDE20091012_235141_000000412083_00202_39835_0588.N1	12-OCT-2009 23:51:41	Bright	41.000	160	23Gam Per	2.9300	4700.0	82	39835	No

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



4. Overview of dark signal processing per product

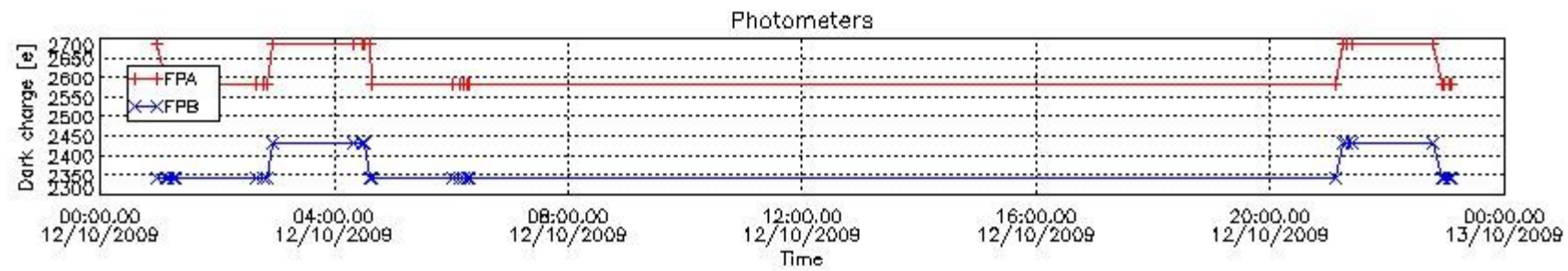
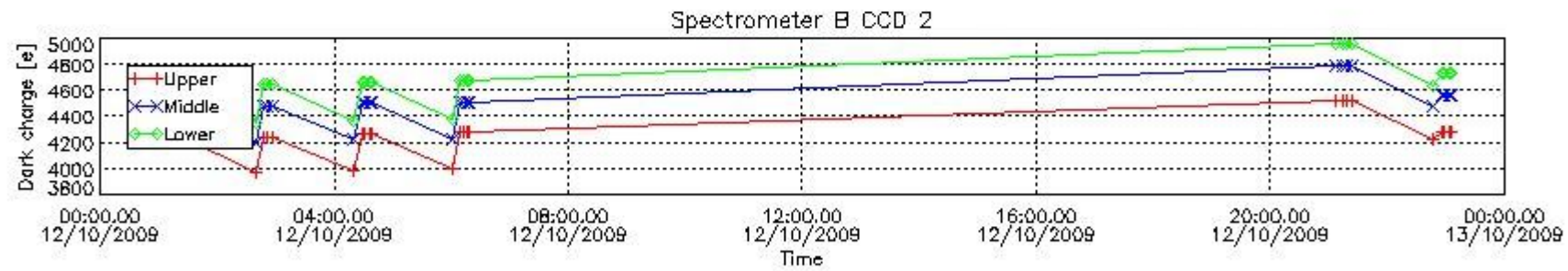
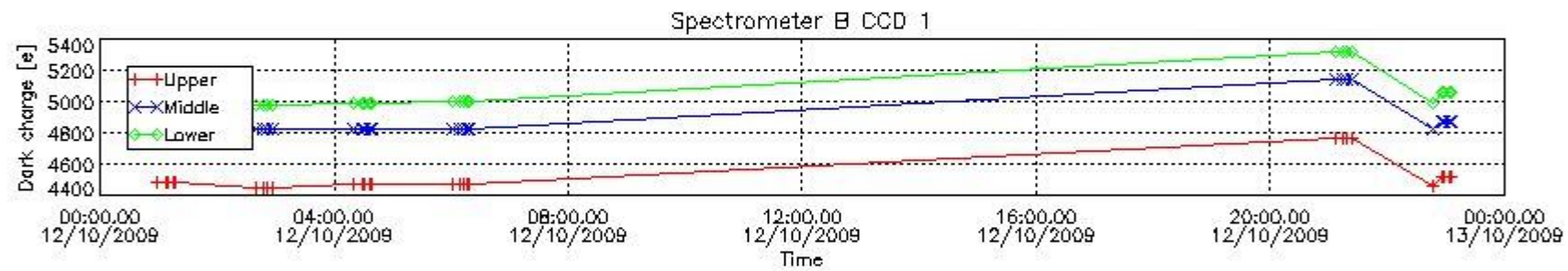
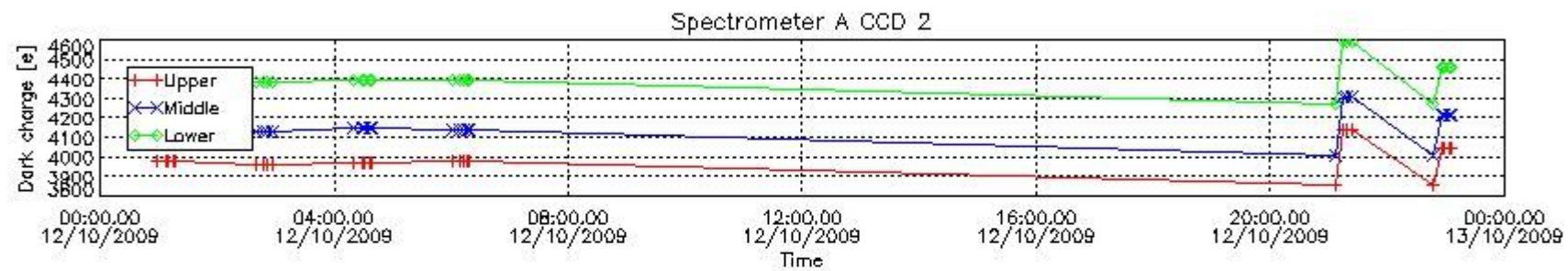
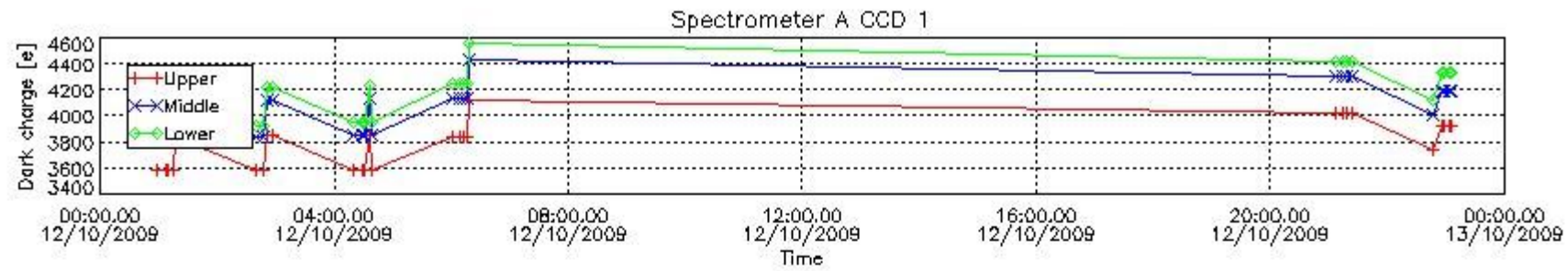
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20091012_195536_000000372083_00200_39833_0533.N1	DC map with no T dep.
GOM_TRA_1PNPDE20091012_201810_000000422083_00200_39833_0534.N1	DC map used
GOM_TRA_1PNPDE20091012_202124_000000362083_00200_39833_0535.N1	DC map used
GOM_TRA_1PNPDE20091012_202320_000000442083_00200_39833_0536.N1	DC map used
GOM_TRA_1PNPDE20091012_202507_000000412083_00200_39833_0537.N1	DC map used
GOM_TRA_1PNPDE20091012_202835_000000342083_00200_39833_0538.N1	DC map used
GOM_TRA_1PNPDE20091012_203031_000000412083_00200_39833_0539.N1	DC map used
GOM_TRA_1PNPDE20091012_205538_000000282083_00200_39833_0540.N1	DC map used

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



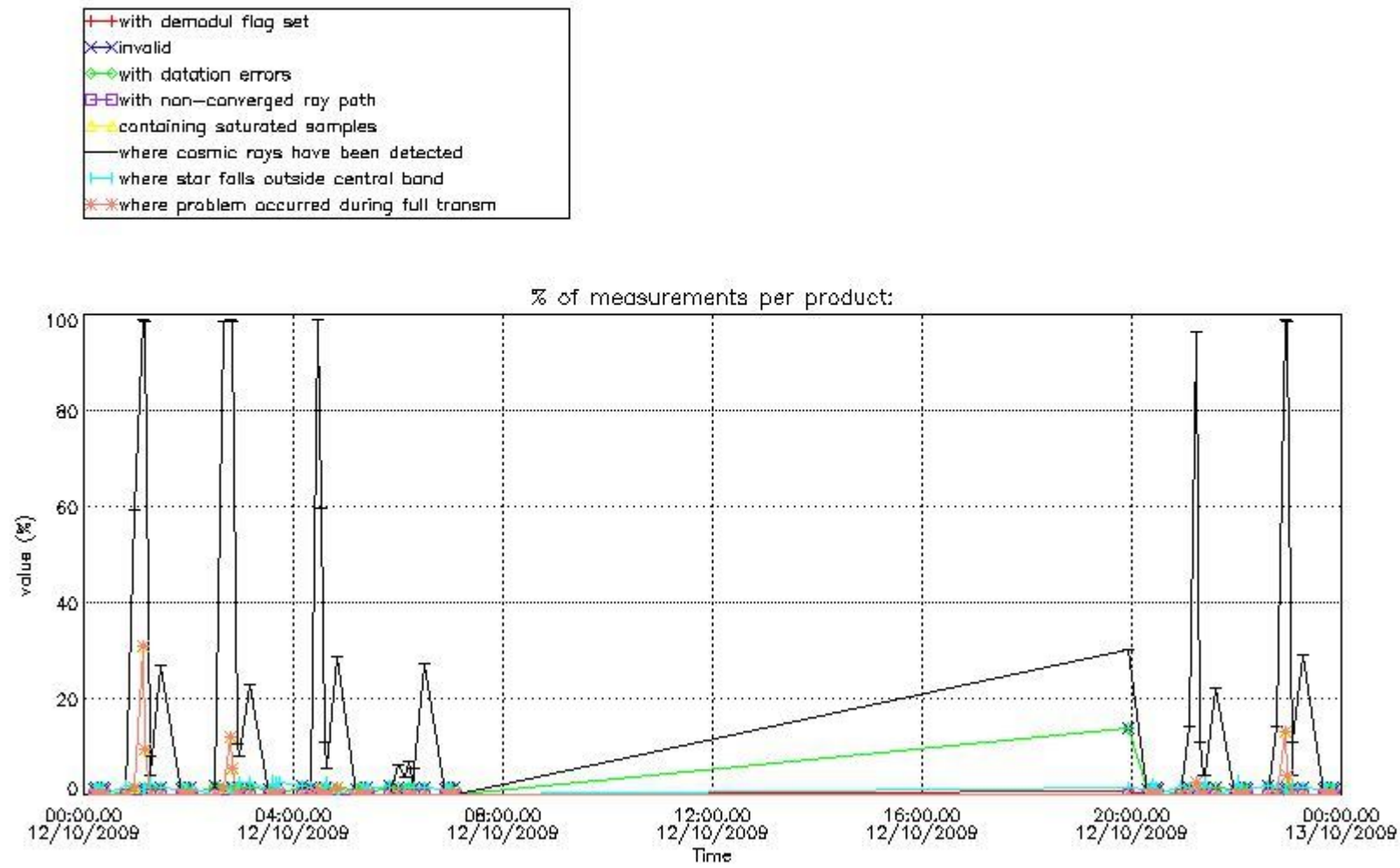
5. Demodulation flag and quality information monitoring

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.

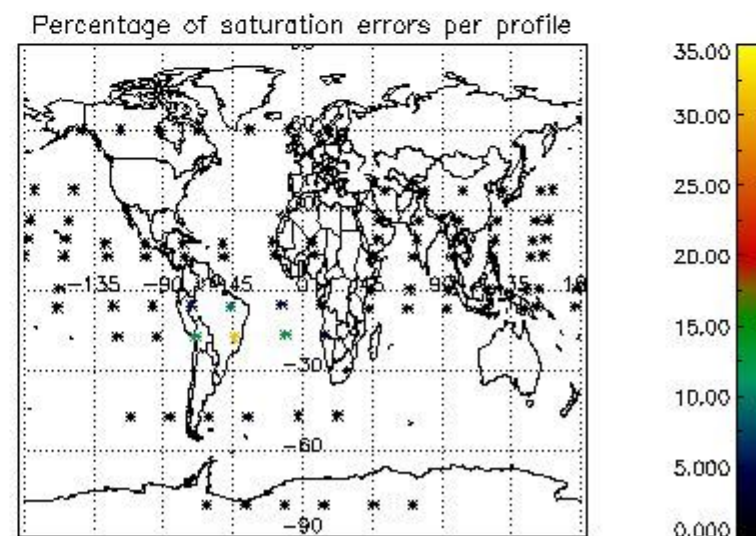
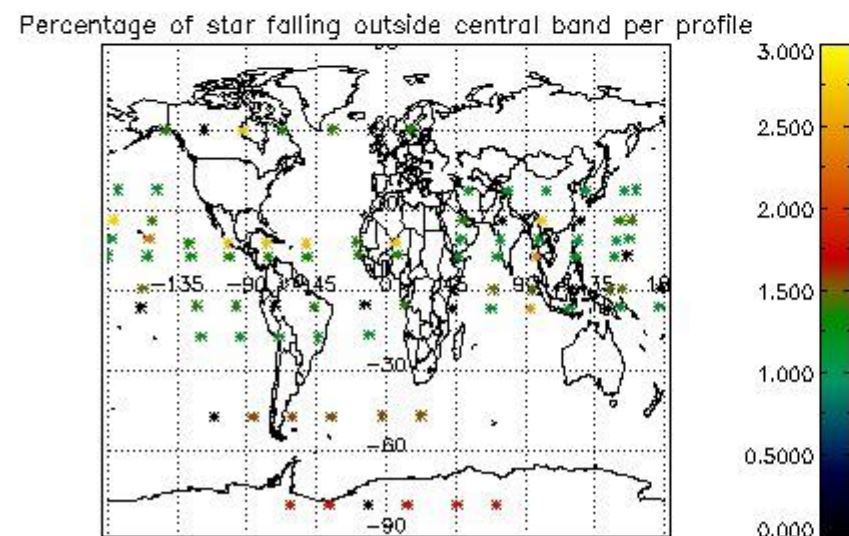
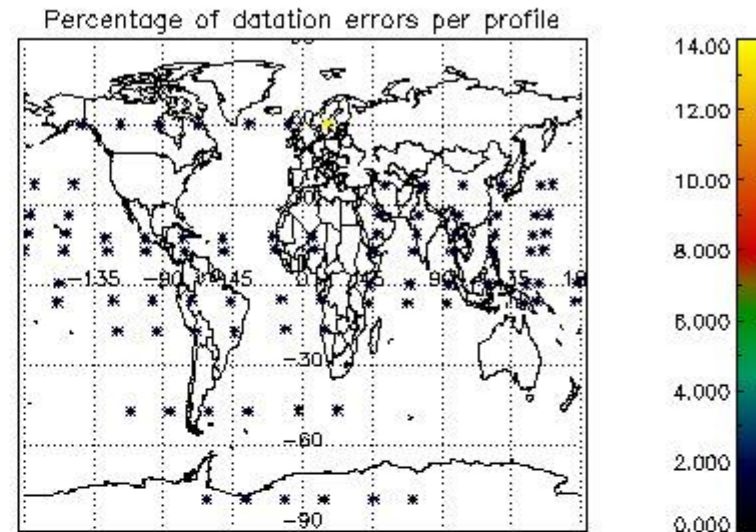
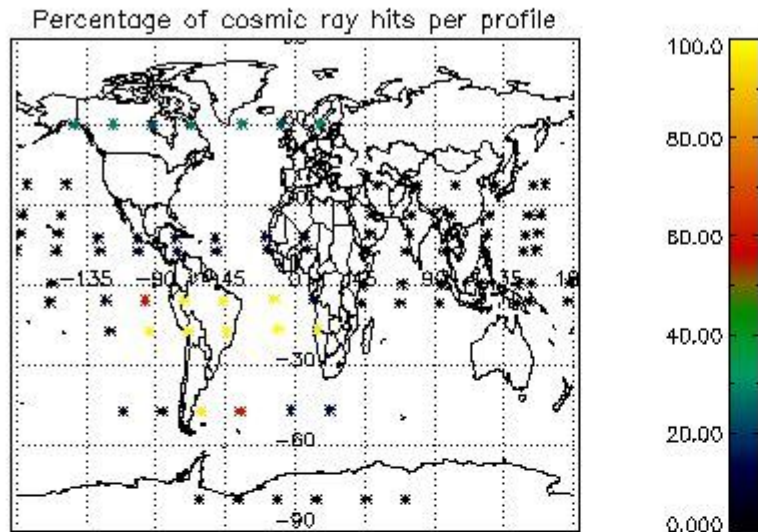
5.1 Percentage of products during reporting period with:

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



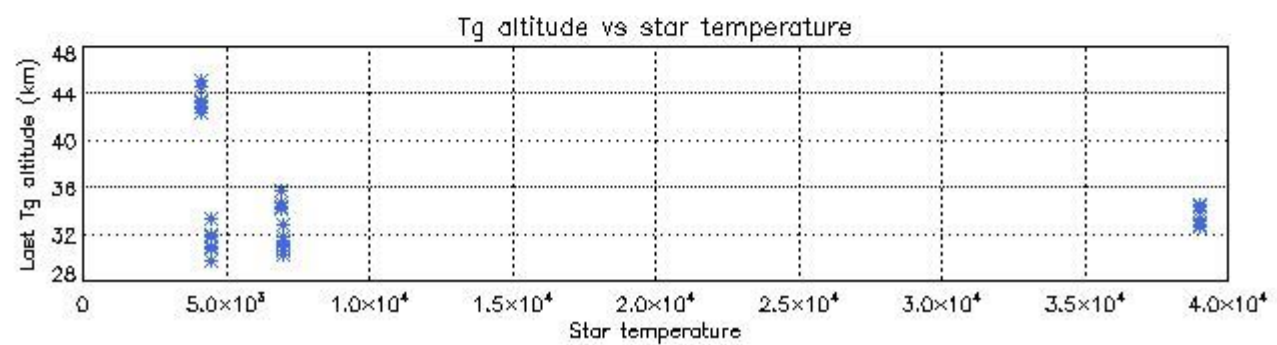
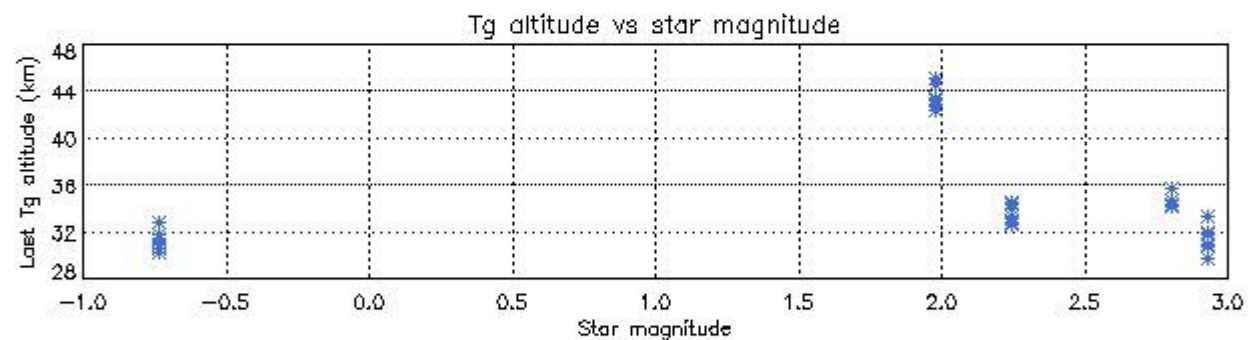
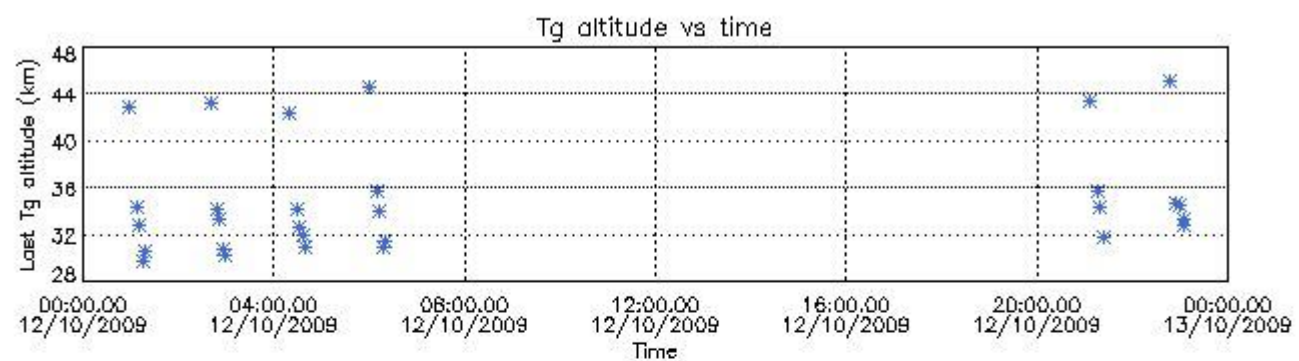
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	34.926	33.507	NaN
St. deviation:	4.6982	1.7747	NaN
Maximum:	45.028	37.708	NaN
Minimum:	29.756	31.050	NaN
Number of data:	30.000	48.000	NaN

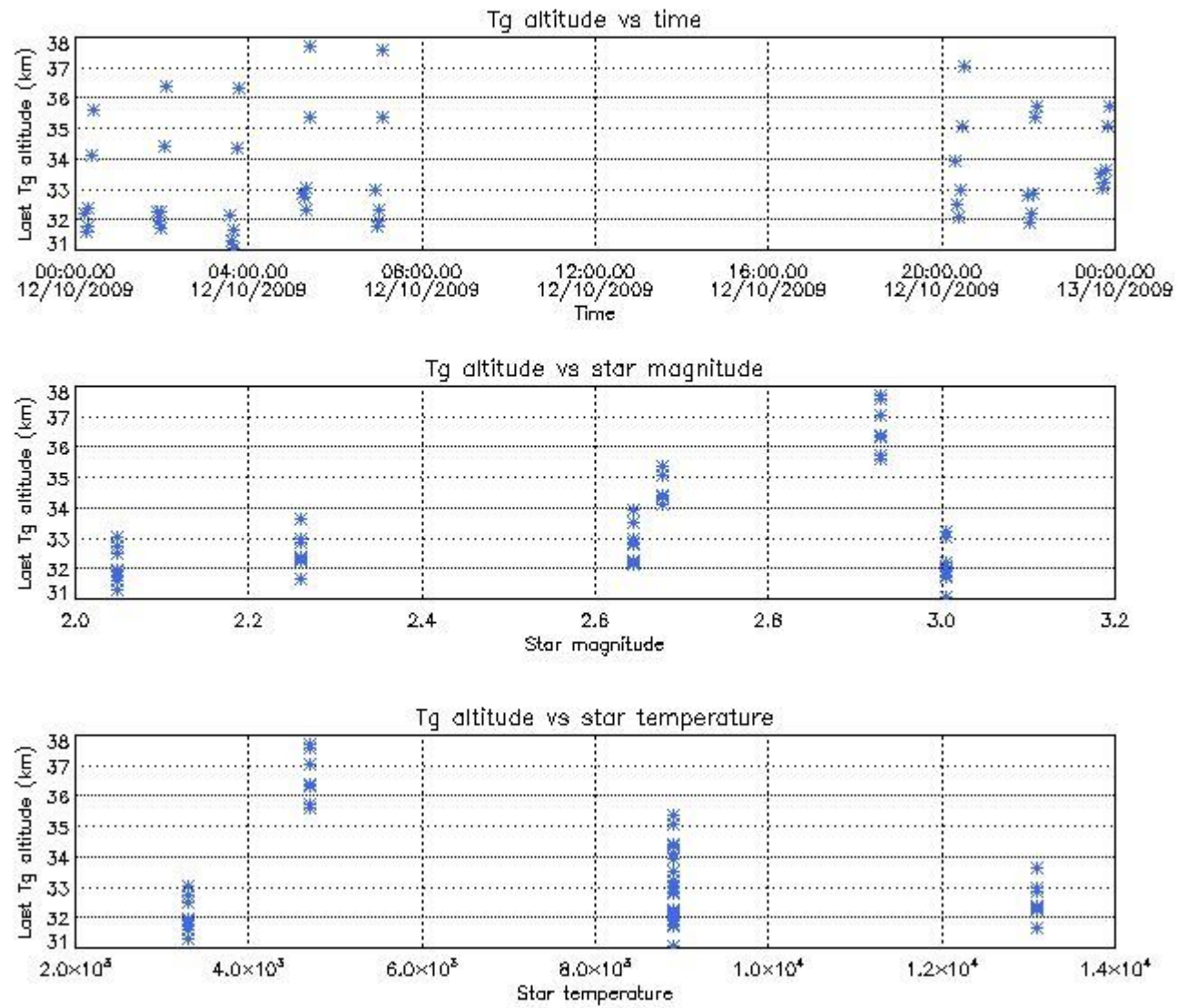
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

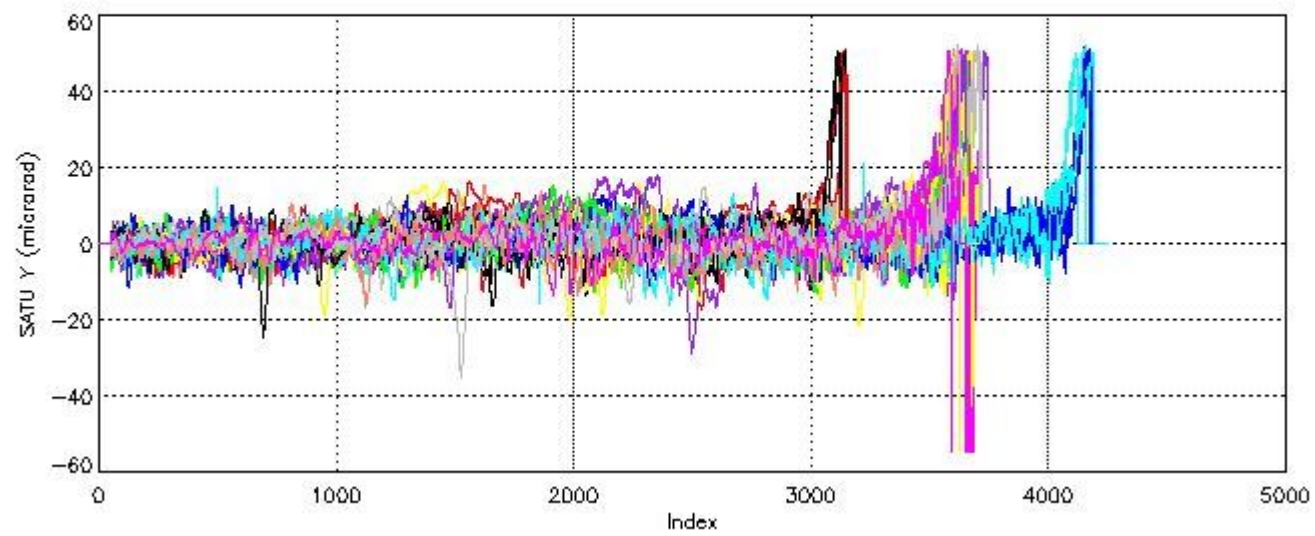
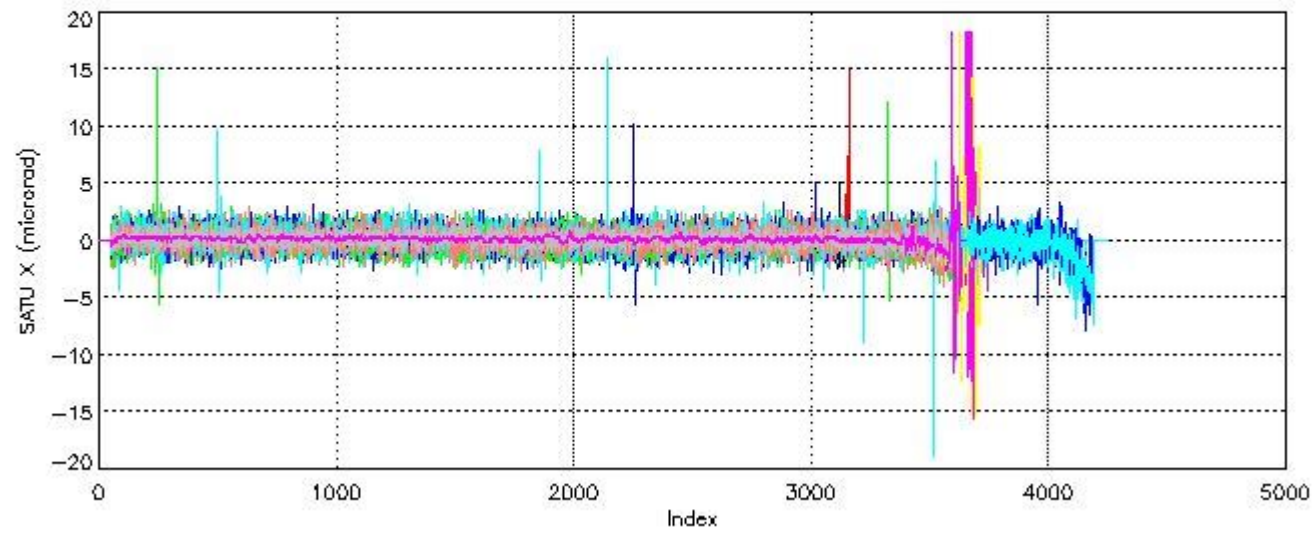


7. Star Acquisition and Tracking Unit (SATU)

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:	0.19391	-0.045851	0.28253	-0.16914
St. deviation:	0.51184	2.8814	0.91460	3.0076
Maximum:	15.100	14.900	6.6000	11.600
Minimum:	-5.7000	-24.500	-5.7000	-18.200

Number of data:	31900.	31900.	54050.	54050.
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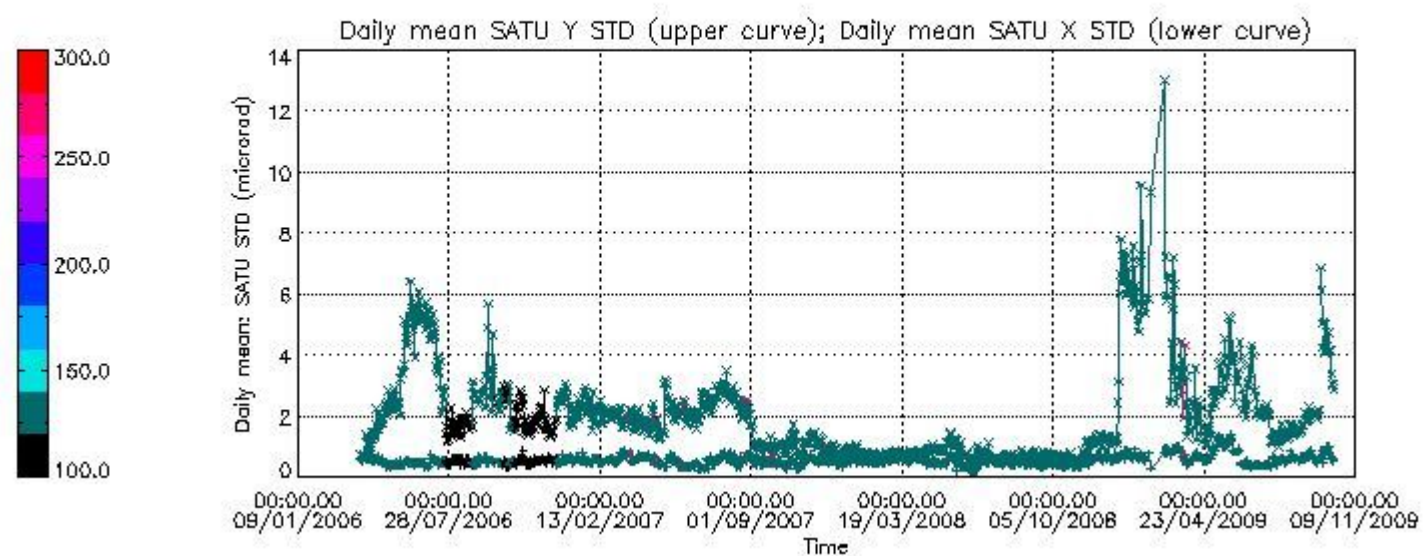
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

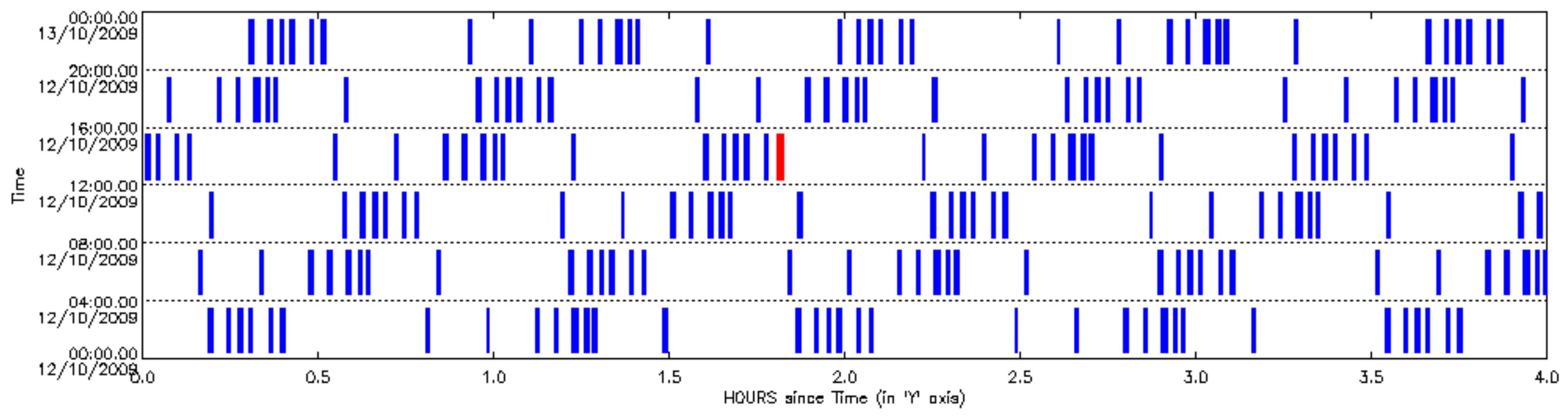
Lower curve: STD of SATU X axis

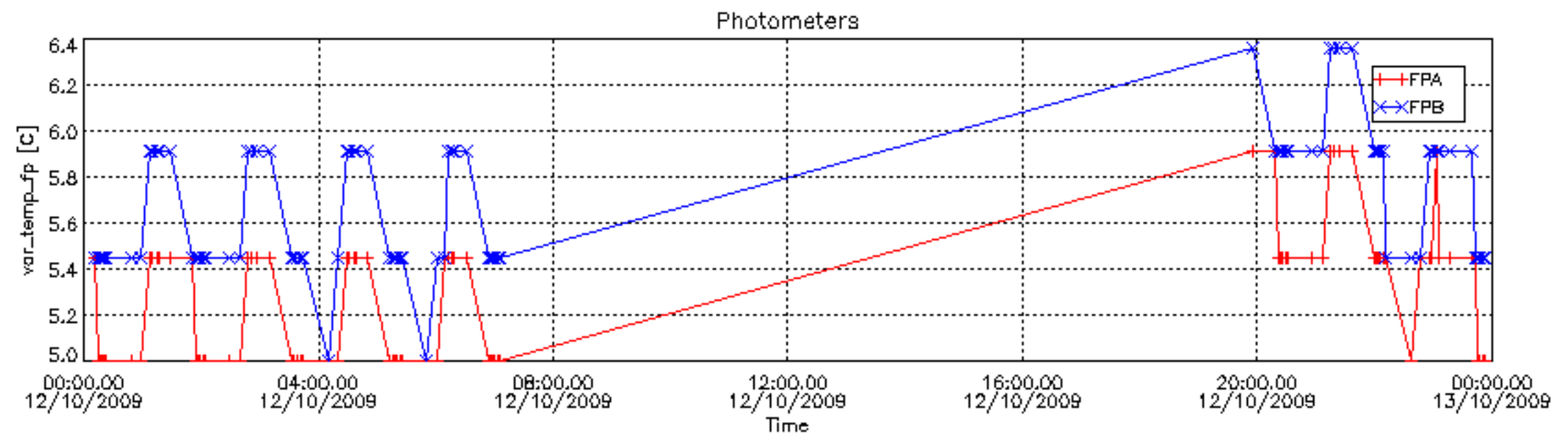
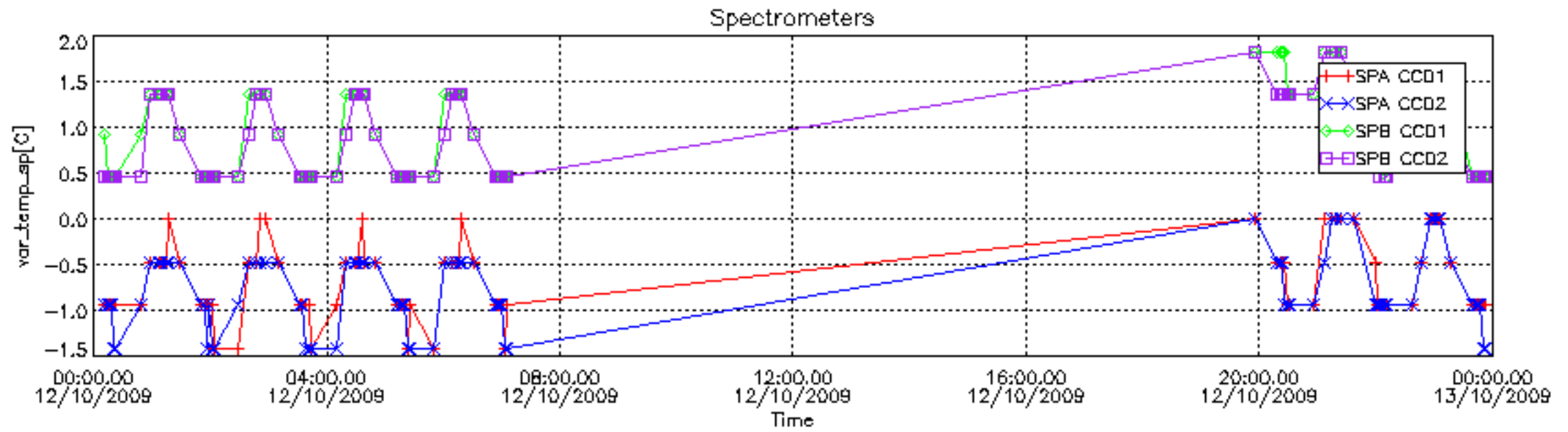


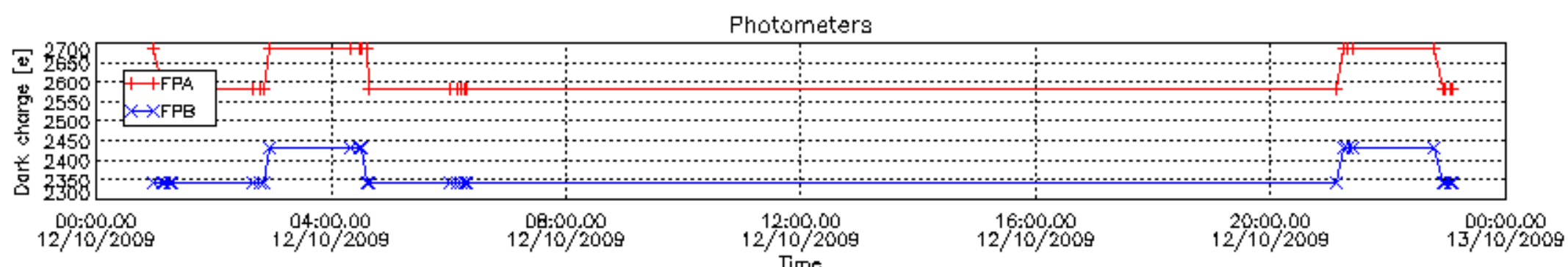
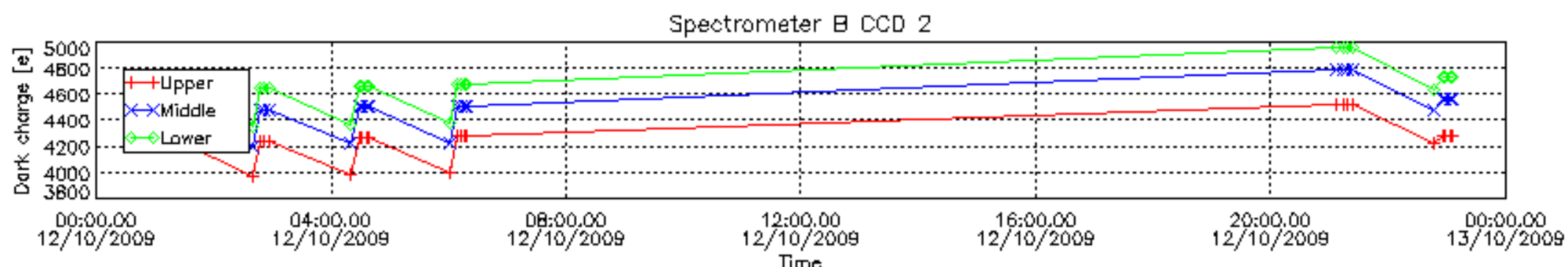
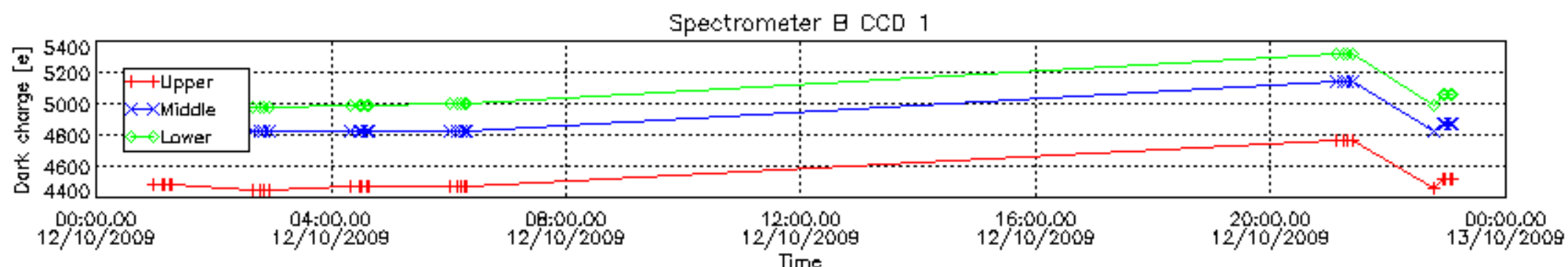
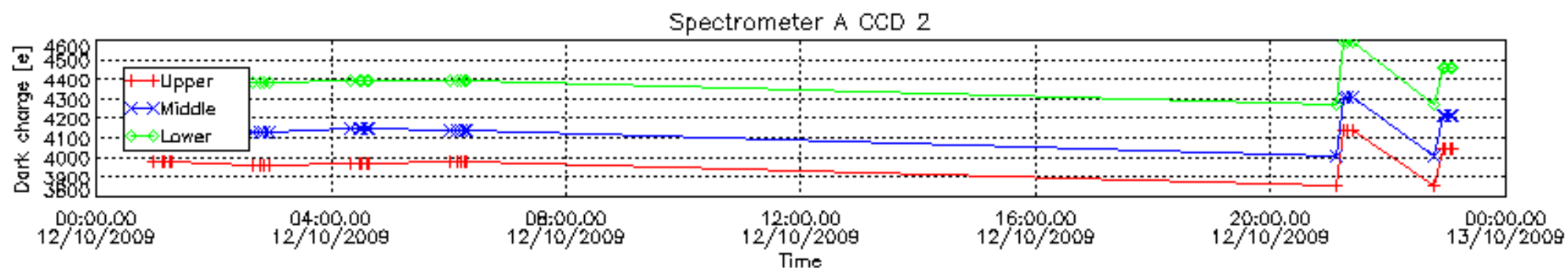
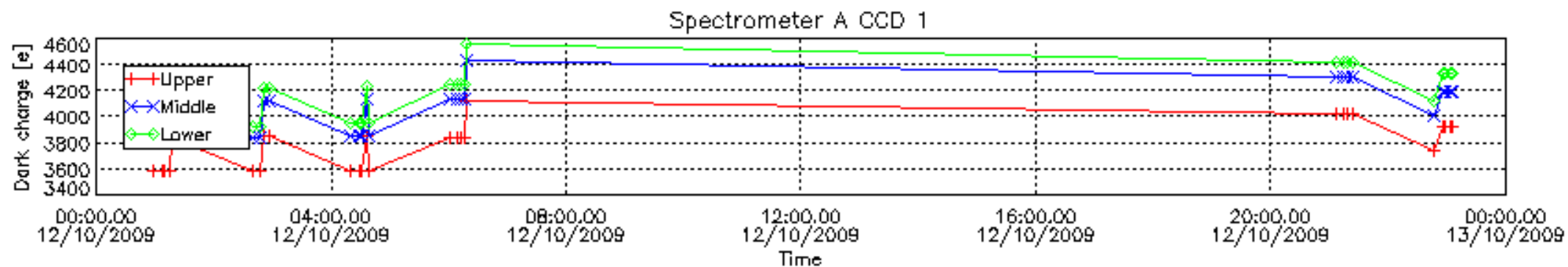
8. Auxiliary Data Files used for the production reported in section 2.4

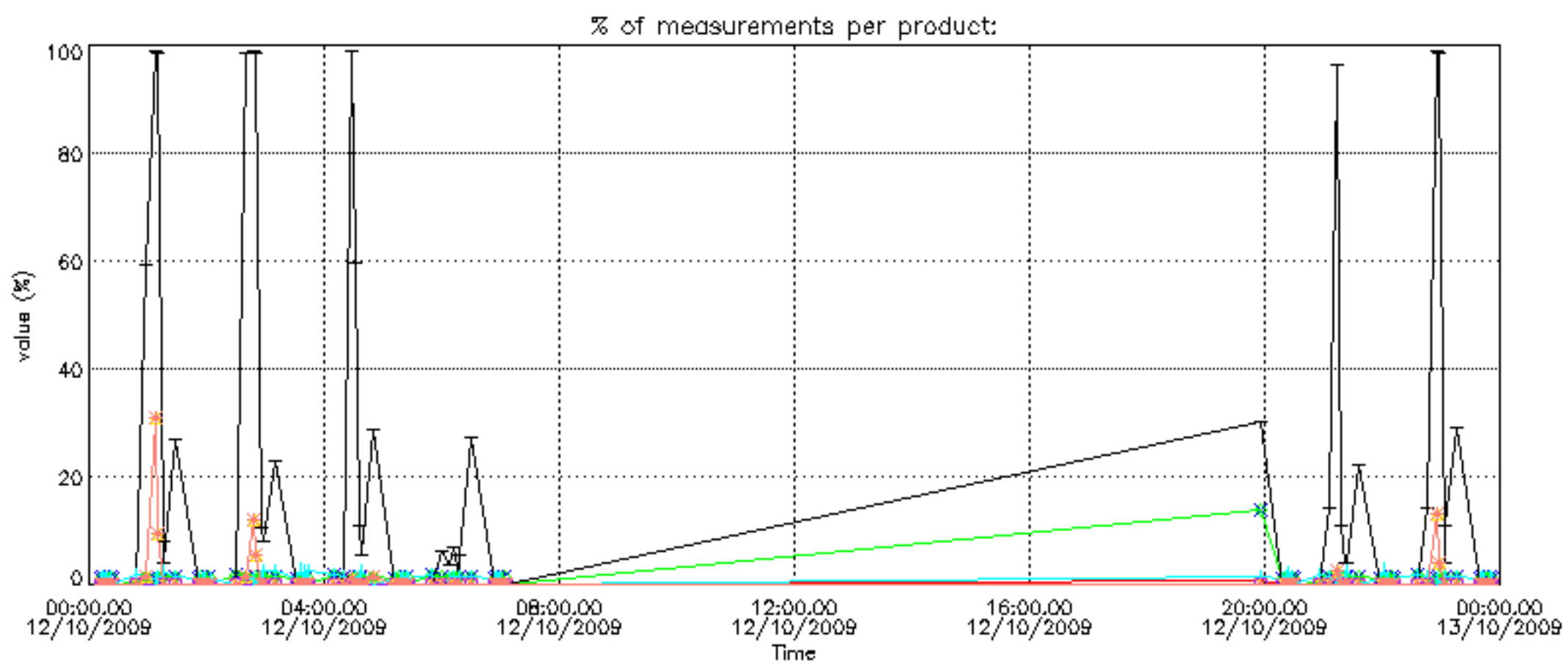
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	12-OCT-2009 00:11:06
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091007_100119_20091005_000000_20100101_000000	1	12-OCT-2009 00:11:06
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	12-OCT-2009 00:11:06
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	12-OCT-2009 00:11:06
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	12-OCT-2009 00:11:06
ECMWF_FILE	AUX_ECF_AXNECM20091011_062113_20091011_210000_20091012_090000	1	12-OCT-2009 00:11:06
ECMWF_FILE	AUX_ECF_AXNECM20091011_184111_20091012_030000_20091012_150000	33	12-OCT-2009 04:09:36
ECMWF_FILE	AUX_ECA_AXNECM20091012_062111_20091011_210000_20091012_090000	46	12-OCT-2009 05:50:13
ECMWF_FILE	AUX_ECF_AXNECM20091012_062112_20091012_150000_20091013_030000	59	12-OCT-2009 19:55:36
ECMWF_FILE	AUX_ECF_AXNECM20091012_062113_20091012_210000_20091013_090000	67	12-OCT-2009 21:06:00
OPTIONAL_ECMWF_FILE	MISSING	1	12-OCT-2009 00:11:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091011_231414_000057382083_00187_39820_8947.N1	1	12-OCT-2009 00:11:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091012_004952_000047822083_00188_39821_8948.N1	8	12-OCT-2009 00:58:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091012_021452_000054192083_00189_39822_8949.N1	20	12-OCT-2009 02:29:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091012_035031_000057382083_00190_39823_8950.N1	33	12-OCT-2009 04:09:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091012_053128_000057382083_00191_39824_8951.N1	46	12-OCT-2009 05:50:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091012_195212_000035072083_00200_39833_8952.N1	59	12-OCT-2009 19:55:36
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091012_010112_20091011_182935_20091021_213625	67	12-OCT-2009 21:06:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091012_224213_000060572083_00201_39834_8954.N1	81	12-OCT-2009 22:55:07

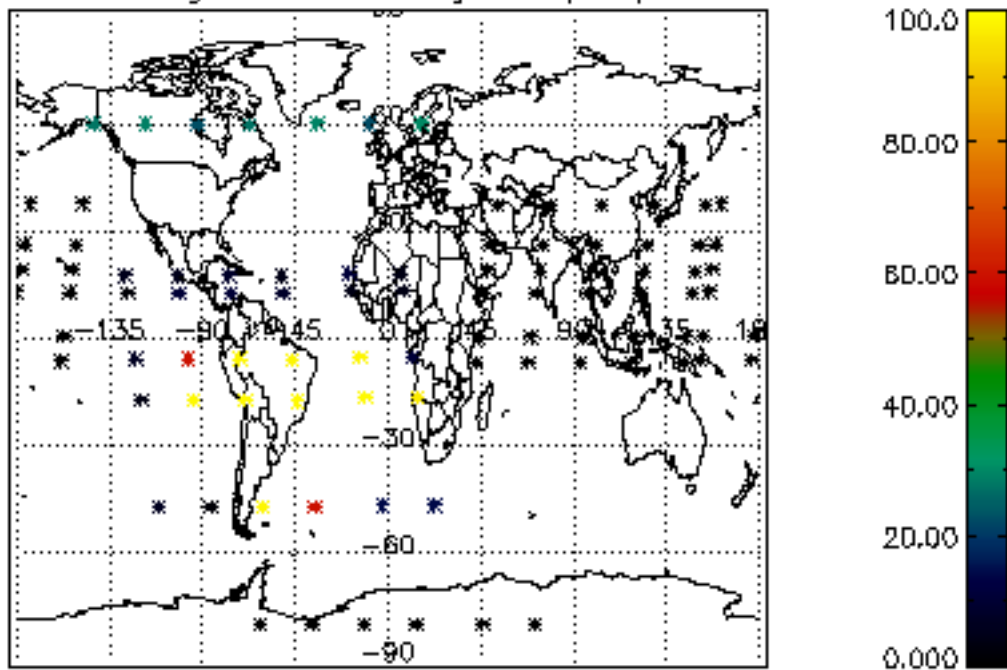




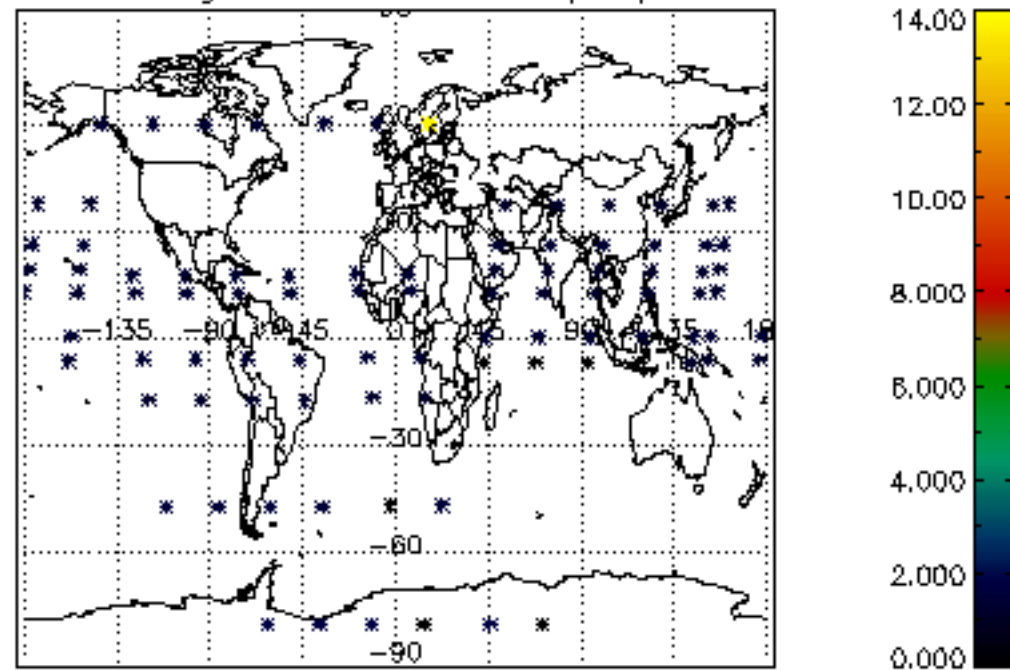




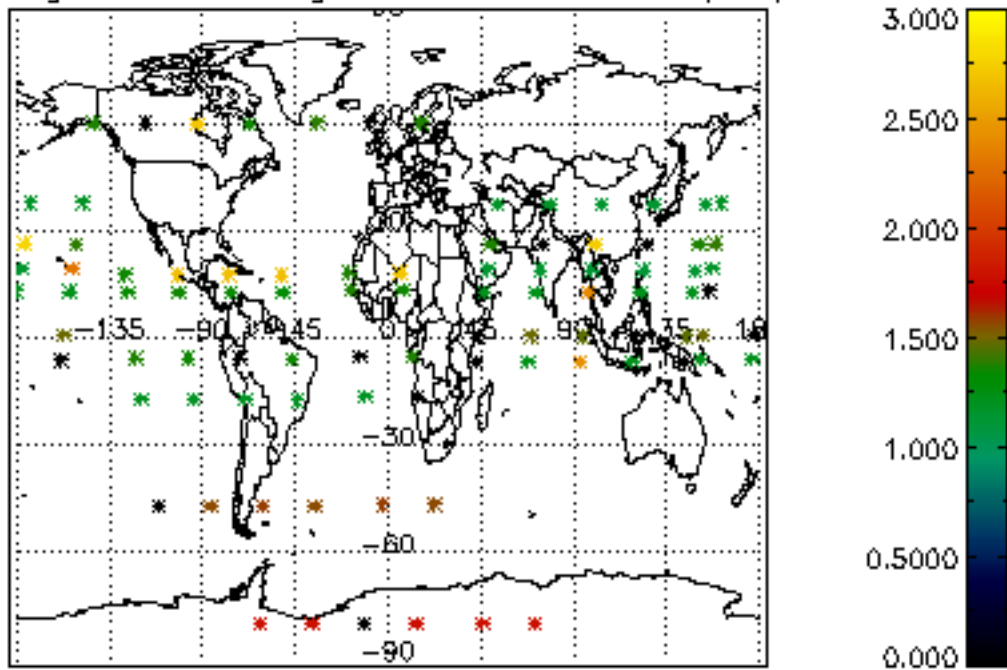
Percentage of cosmic ray hits per profile



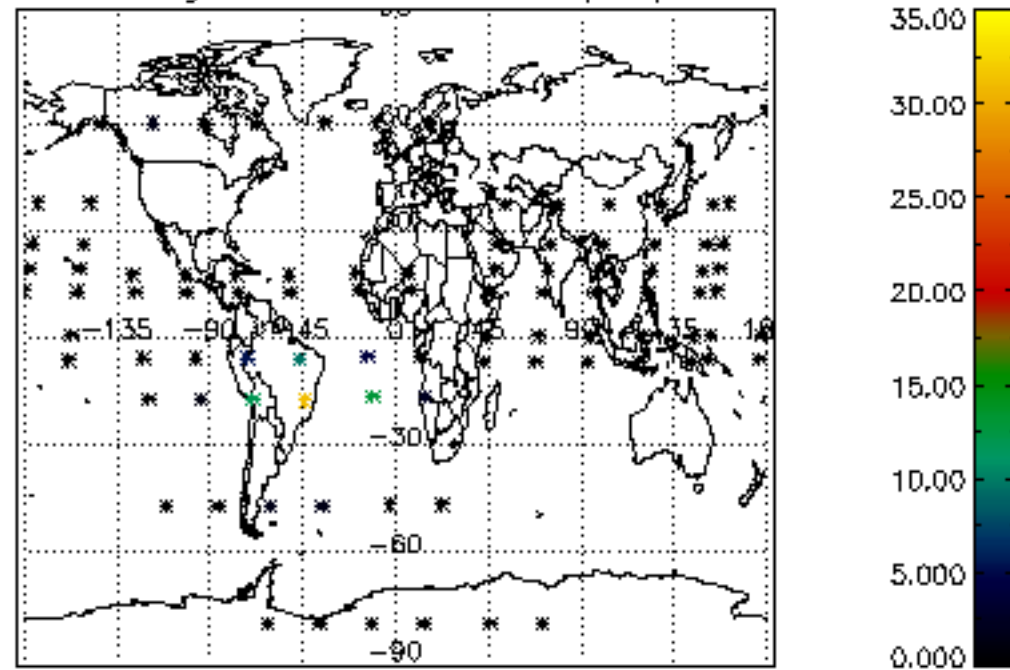
Percentage of datation errors per profile



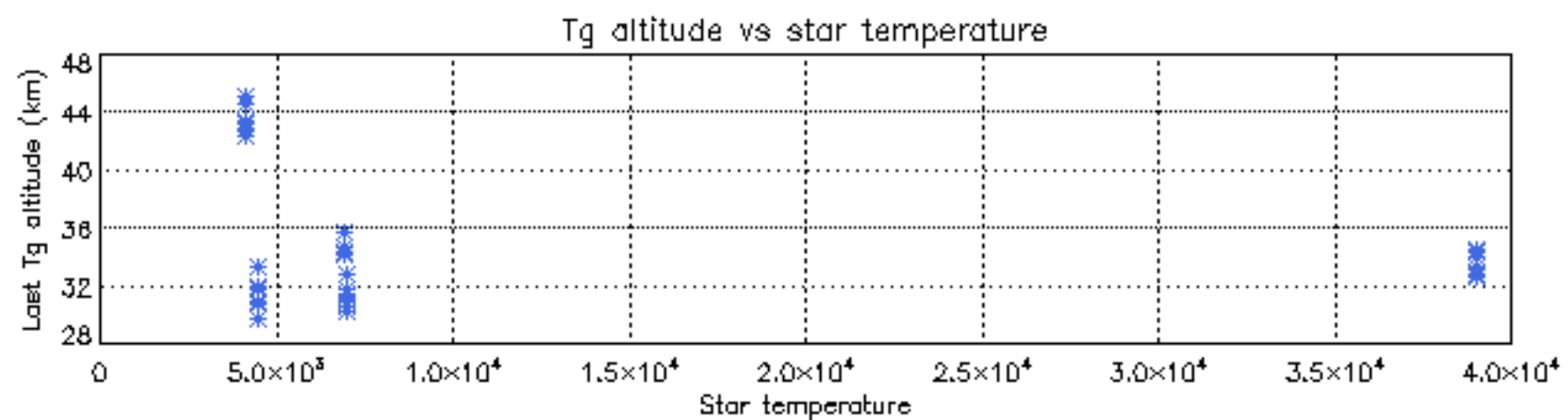
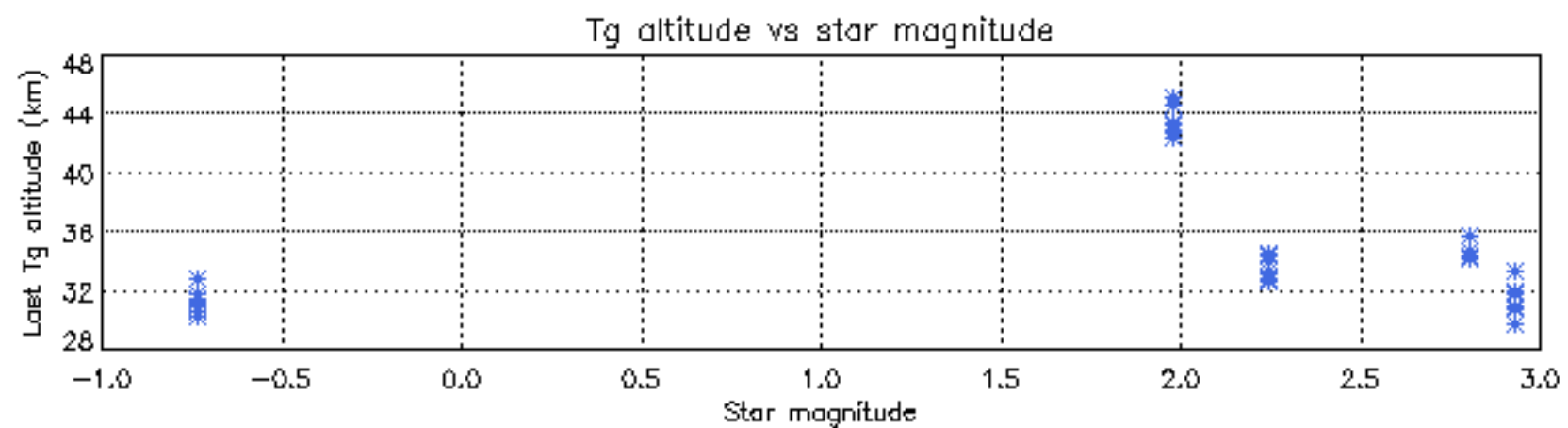
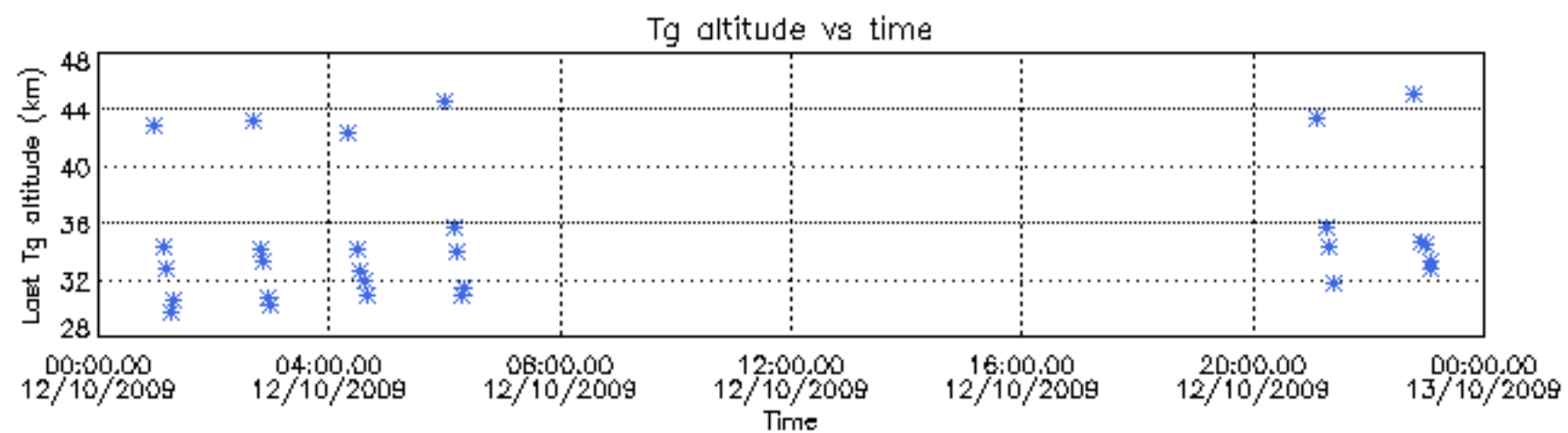
Percentage of star falling outside central band per profile



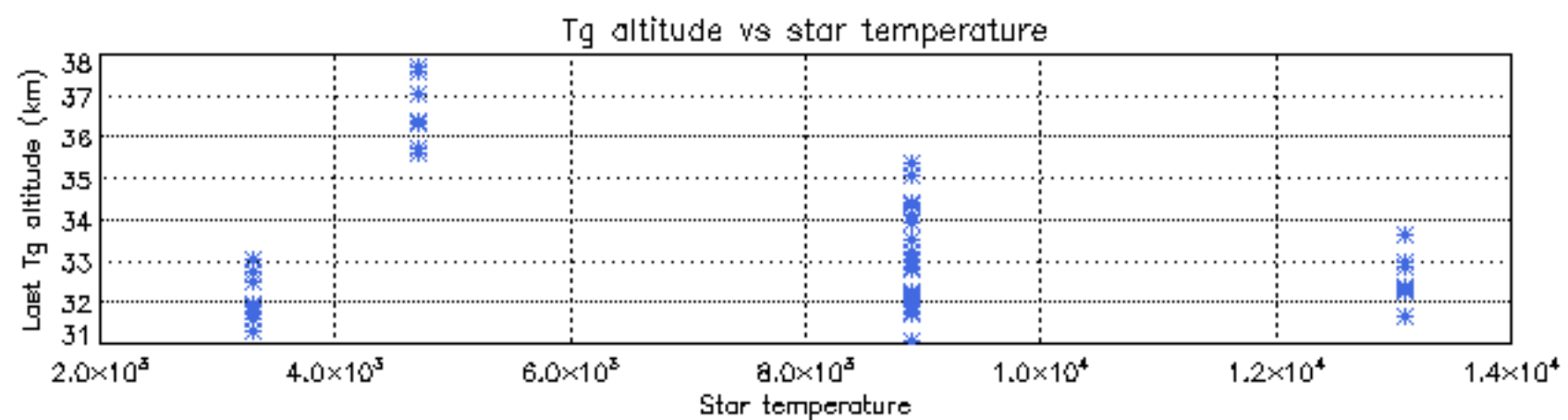
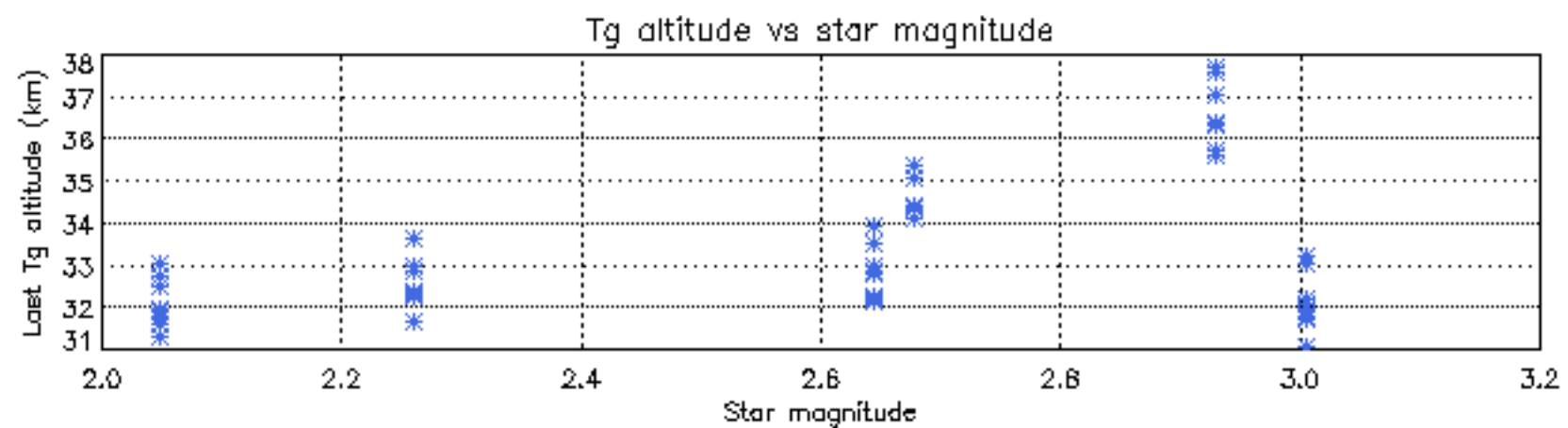
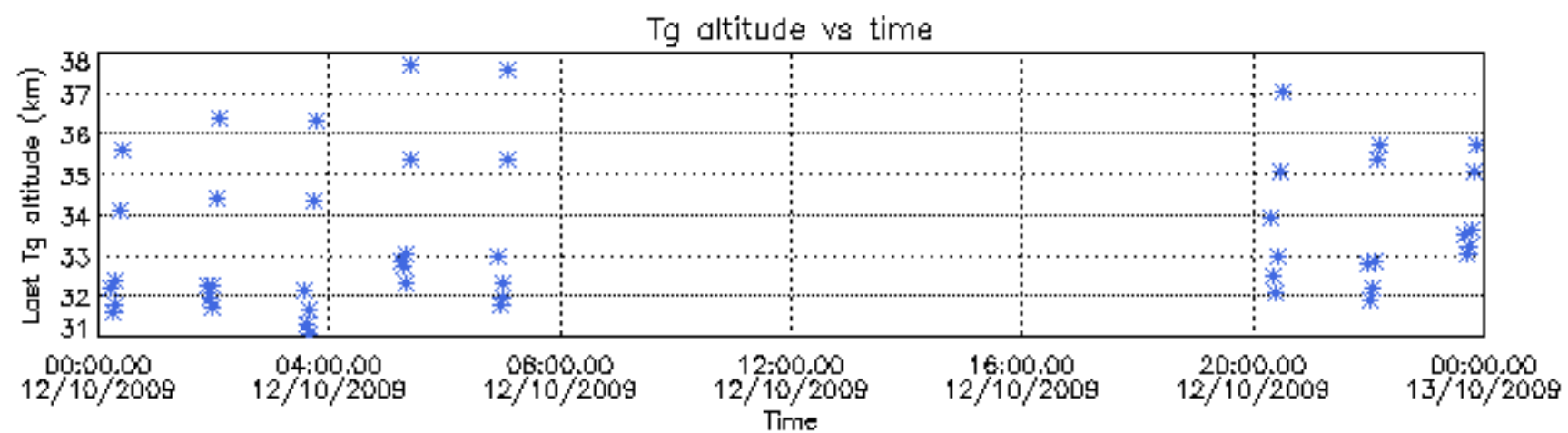
Percentage of saturation errors per profile

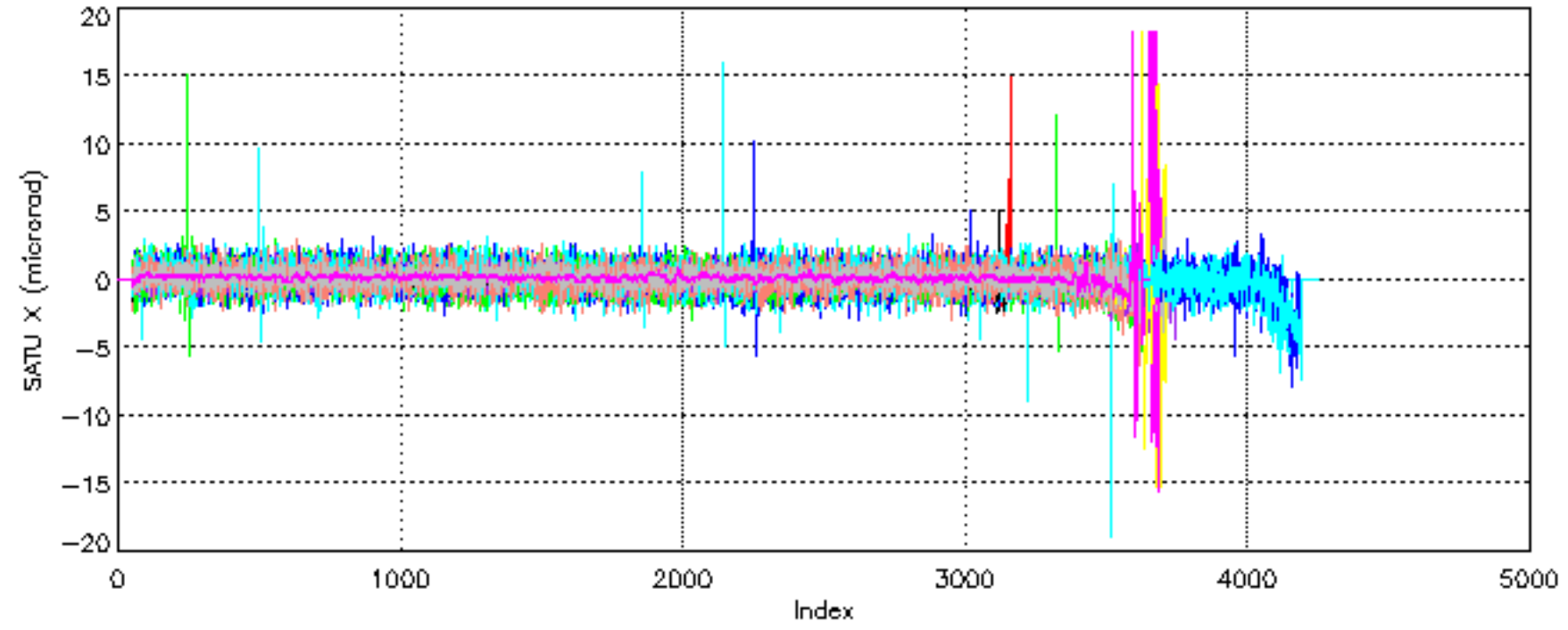


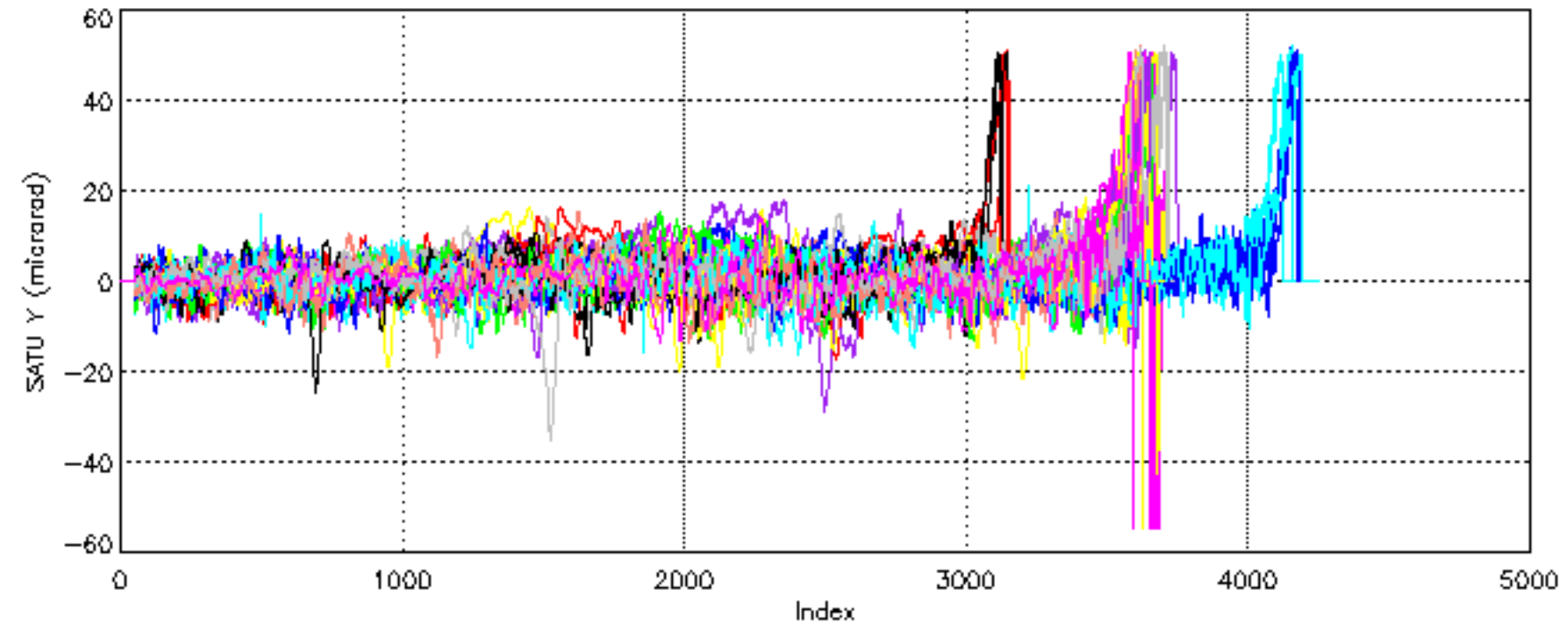
Tangent altitude at which the star is lost

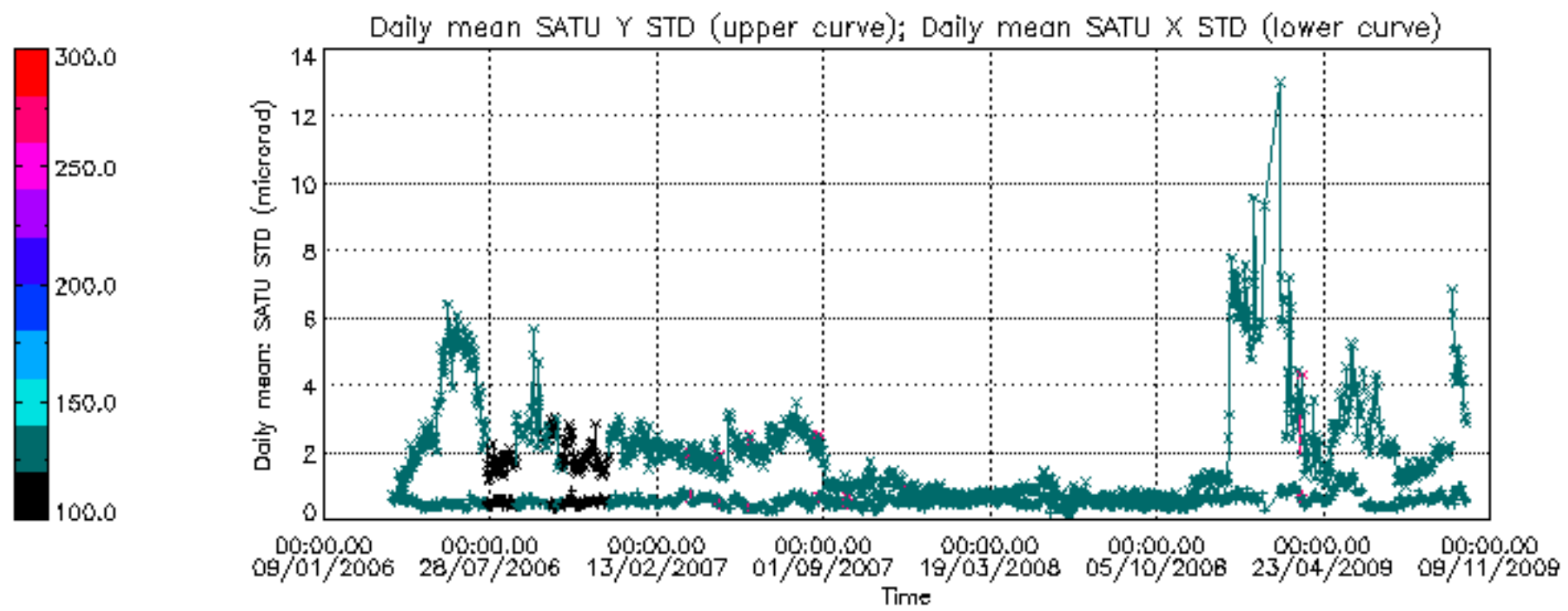


Tangent altitude at which the star is lost









```
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20091001_000952_000050872083_00030_39663_8658.N1
1; -449.6; 01-OCT-2009 00:09:52; Dark ; 35.5; 132; 15Rho Pup ; 2.80; 6900;occ; 71; 0;39663
2; -232.4; 01-OCT-2009 00:13:29; Dark ; 40.0; 88; 31Eta CMA ; 2.45; 20000;occ; 80; 0;39663
3; -128.1; 01-OCT-2009 00:15:14; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;39663
4; 97.3; 01-OCT-2009 00:18:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39664
5; 305.4; 01-OCT-2009 00:22:27; Dark ; 52.5; 108; Alp Col ; 2.65; 15200;occ; 105; 0;39664
6; 915.5; 01-OCT-2009 00:32:37; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;39664
7; 1557.3; 01-OCT-2009 00:43:19; Dark ; 34.0; 52; 16Bet Cet ; 2.04; 4500;occ; 68; 0;39664
8; 2184.9; 01-OCT-2009 00:53:47; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;39664
9; 2434.7; 01-OCT-2009 00:57:57; Bright; 35.0; 58; 21Alp And ; 2.07; 11000;occ; 70; 0;39664
10; 2659.8; 01-OCT-2009 01:01:42; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;39664
11; 2945.5; 01-OCT-2009 01:06:27; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39664
12; 3031.5; 01-OCT-2009 01:07:53; Bright; 34.5; 76; 27Gam Cas ; 2.30; 30000;occ; 69; 0;39664
13; 4601.5; 01-OCT-2009 01:34:03; Bright; 36.5; 17; 78Bet Gem ; 1.16; 4500;occ; 73; 0;39664
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20091001_015029_000035132083_00031_39664_8659.N1
1; -448.7; 01-OCT-2009 01:50:29; Dark ; 35.5; 132; 15Rho Pup ; 2.80; 6900;occ; 71; 0;39664
2; -231.2; 01-OCT-2009 01:54:07; Dark ; 40.0; 88; 31Eta CMA ; 2.45; 20000;occ; 80; 0;39664
3; -126.7; 01-OCT-2009 01:55:51; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;39664
4; 98.5; 01-OCT-2009 01:59:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39665
5; 306.9; 01-OCT-2009 02:03:05; Dark ; 52.0; 108; Alp Col ; 2.65; 15200;occ; 104; 0;39665
6; 915.7; 01-OCT-2009 02:13:14; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;39665
7; 1557.1; 01-OCT-2009 02:23:55; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;39665
8; 2184.6; 01-OCT-2009 02:34:22; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;39665
9; 2434.7; 01-OCT-2009 02:38:32; Bright; 34.5; 58; 21Alp And ; 2.07; 11000;occ; 69; 0;39665
10; 2659.2; 01-OCT-2009 02:42:17; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;39665
11; 2945.0; 01-OCT-2009 02:47:03; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39665
12; 3031.4; 01-OCT-2009 02:48:29; Bright; 33.5; 76; 27Gam Cas ; 2.30; 30000;occ; 67; 0;39665
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1; -1434.0; 01-OCT-2009 03:14:40; Bright; 36.5; 17; 78Bet Gem ; 1.16; 4500;occ; 73; 0;39665
2; -447.9; 01-OCT-2009 03:31:06; Dark ; 35.5; 132; 15Rho Pup ; 2.80; 6900;occ; 71; 0;39665
3; -230.0; 01-OCT-2009 03:34:44; Dark ; 40.0; 88; 31Eta CMA ; 2.45; 20000;occ; 80; 0;39665
4; -125.6; 01-OCT-2009 03:36:28; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;39665
5; 99.7; 01-OCT-2009 03:40:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39666
6; 917.1; 01-OCT-2009 03:53:51; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;39666
7; 1557.3; 01-OCT-2009 04:04:31; Dark ; 34.5; 52; 16Bet Cet ; 2.04; 4500;occ; 69; 0;39666
8; 2184.5; 01-OCT-2009 04:14:58; Bright; 35.0; 140; 88Gam Peg ; 2.83; 26000;occ; 70; 0;39666
9; 2434.3; 01-OCT-2009 04:19:08; Bright; 34.5; 58; 21Alp And ; 2.07; 11000;occ; 69; 0;39666
10; 2658.5; 01-OCT-2009 04:22:52; Bright; 41.5; 53; 43Bet And ; 2.05; 3300;occ; 83; 0;39666
11; 2944.9; 01-OCT-2009 04:27:39; Bright; 34.5; 68; 18Alp Cas ; 2.22; 4500;occ; 69; 0;39666
12; 3031.0; 01-OCT-2009 04:29:05; Bright; 33.5; 76; 27Gam Cas ; 2.30; 30000;occ; 67; 0;39666
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1; -1433.6; 01-OCT-2009 04:55:16; Bright; 36.5; 17; 78Bet Gem ; 1.16; 4500;occ; 73; 0;39666
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1; 254.8; 25-OCT-2009 02:48:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40009
2; 445.6; 25-OCT-2009 02:51:23; Dark ; 24.5; 2; Alp Car ; -0.74; 7000;occ; 49; 0;40009
3; 2295.6; 25-OCT-2009 03:22:13; Bright; 15.5; 105; 6Bet Ari ; 2.64; 8900;occ; 31; 0;40009
4; 2575.9; 25-OCT-2009 03:26:54; Bright; 18.0; 173; 4Bet Tri ; 3.00; 8900;occ; 36; 0;40009
5; 2694.8; 25-OCT-2009 03:28:53; Bright; 14.0; 73; 57Gam1And ; 2.26; 13100;occ; 28; 0;40009
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2; 110.7; 25-OCT-2009 06:07:00; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;40011
3; 256.6; 25-OCT-2009 06:09:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40011
4; 448.3; 25-OCT-2009 06:12:38; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;40011
5; 2294.9; 25-OCT-2009 06:43:25; Bright; 43.0; 105; 6Bet Ari ; 2.64; 8900;occ; 86; 0;40011
6; 2575.2; 25-OCT-2009 06:48:05; Bright; 42.5; 173; 4Bet Tri ; 3.00; 8900;occ; 85; 0;40011
7; 2694.6; 25-OCT-2009 06:50:04; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;40011
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2; 2571.2; 25-OCT-2009 20:12:48; Bright; 40.5; 173; 4Bet Tri ; 3.00; 8900;occ; 81; 0;40019
3; 2690.7; 25-OCT-2009 20:14:48; Bright; 41.0; 73; 57Gam1And ; 2.26; 13100;occ; 82; 0;40019
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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
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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
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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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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
6; 6499.0; 26-OCT-2009 14:04:15; Dark ; 49.0; 2; Alp Car ;-0.74; 7000;occ; 98; 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
5; 6499.9; 26-OCT-2009 15:44:52; Dark ; 49.0; 2; Alp Car ;-0.74; 7000;occ; 98; 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
4; 6501.4; 26-OCT-2009 19:06:06; Dark ; 61.0; 2; Alp Car ;-0.74; 7000;occ; 122; 0;40032
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2; 130.3; 26-OCT-2009 20:41:07; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;40034
3; 278.2; 26-OCT-2009 20:43:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40034
4; 465.6; 26-OCT-2009 20:46:42; Dark ; 45.5; 2; Alp Car ;-0.74; 7000;occ; 91; 0;40034
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3; 6509.3; 27-OCT-2009 11:52:13; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;40042
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2; 2681.6; 27-OCT-2009 14:09:37; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;40044
3; 6324.6; 27-OCT-2009 15:10:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40044
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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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