

GOMOS Daily Report 13-OCT-2010

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	16OCT2010 04:47:38
Data source version	GOMOS/5.01
Start time of products	13OCT2010 00:07:58
Stop time of products	13OCT2010 23:48:31
Store outputs in DB	Yes
Nb of level 1b prods	97
Nb of prods with errors	1

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

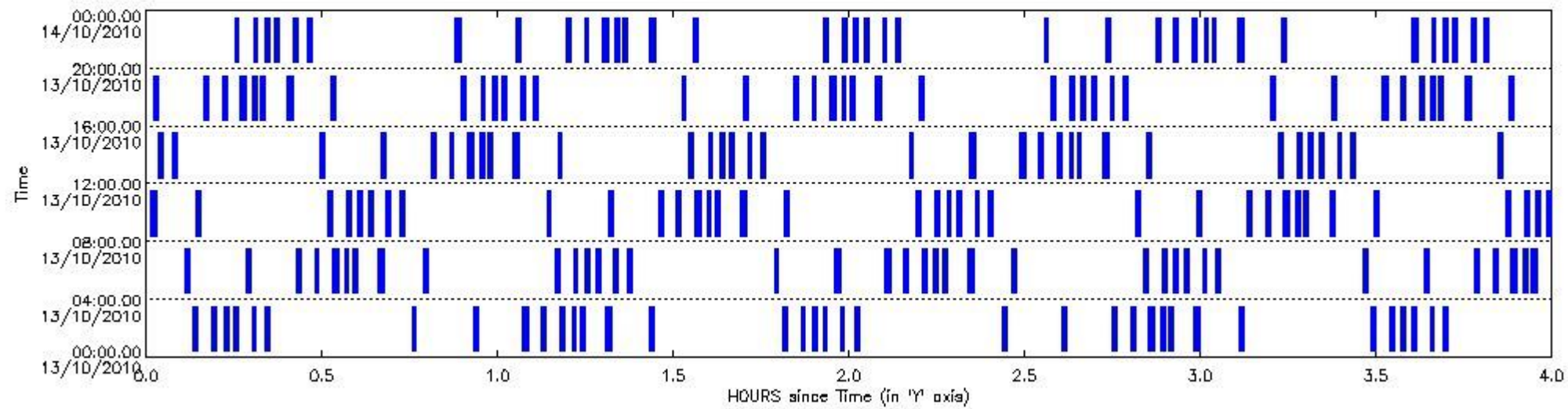
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 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)

No missing products.

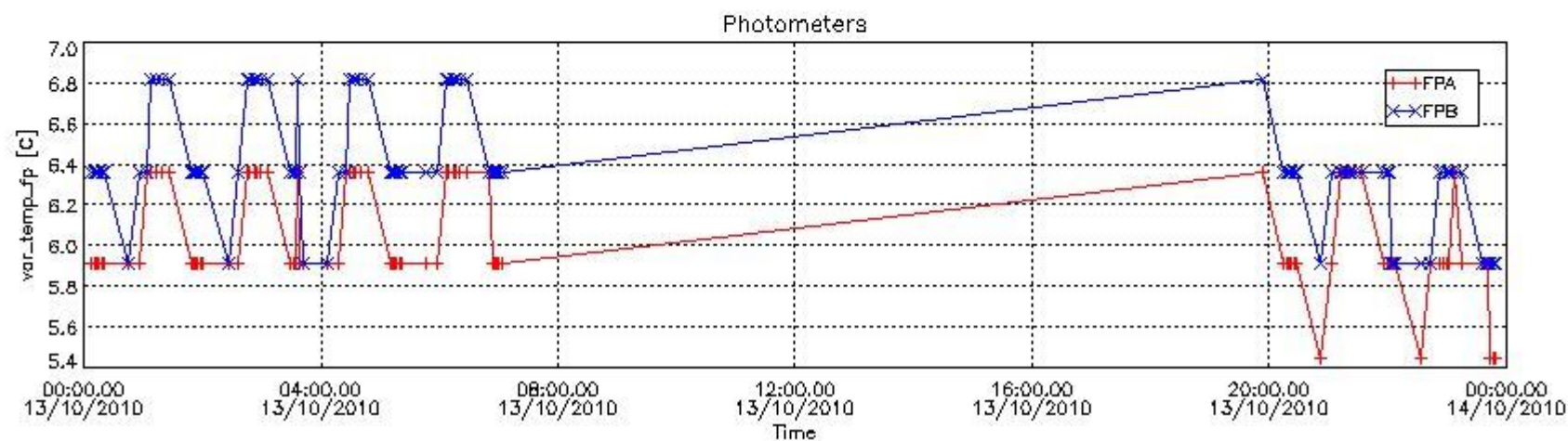
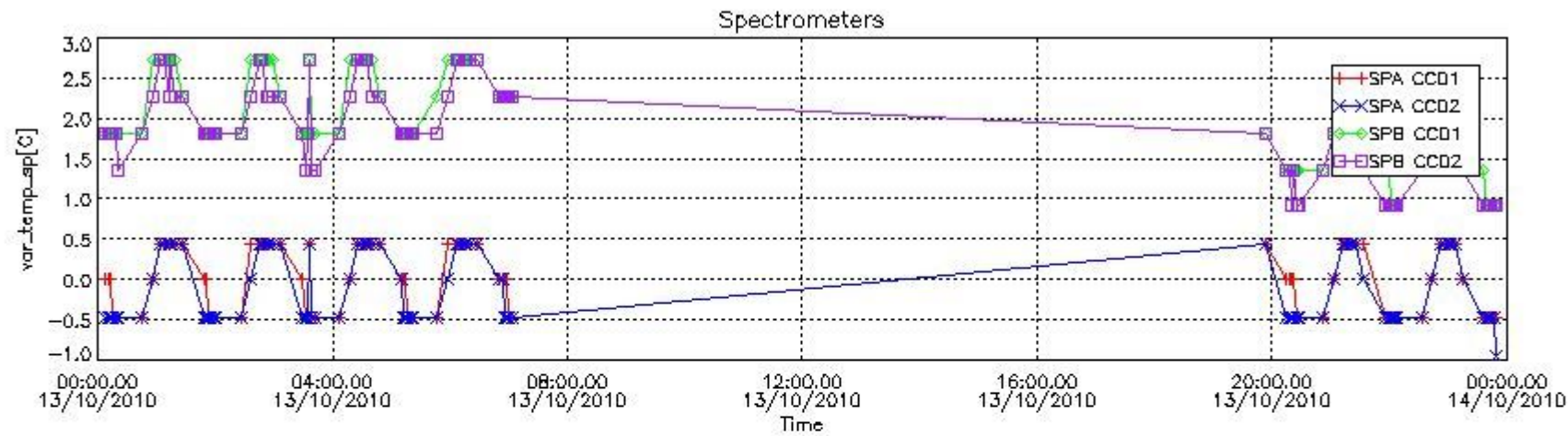
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20101013_000758_000000502093_00417_45060_1783.N1	13-OCT-2010 00:07:58	Bright	49.500	105	6Bet Ari	2.6450	8900.0	99	45060	No
2	GOM_TRA_1PNPDE20101013_001112_000000442093_00417_45060_1784.N1	13-OCT-2010 00:11:12	Bright	44.000	53	43Bet And	2.0480	3300.0	88	45060	No
3	GOM_TRA_1PNPDE20101013_001309_000000532093_00417_45060_1785.N1	13-OCT-2010 00:13:09	Bright	52.500	173	4Bet Tri	3.0040	8900.0	105	45060	No
4	GOM_TRA_1PNPDE20101013_001456_000000452093_00417_45060_1786.N1	13-OCT-2010 00:14:56	Bright	45.000	73	57Gam1And	2.2600	13100.	90	45060	No
5	GOM_TRA_1PNPDE20101013_001800_000000402093_00417_45060_1787.N1	13-OCT-2010 00:18:00	Bright	39.500	76	27Gam Cas	2.3000	30000.	79	45060	No
6	GOM_TRA_1PNPDE20101013_002020_000000492093_00417_45060_1788.N1	13-OCT-2010 00:20:20	Bright	49.000	160	23Gam Per	2.9300	4700.0	98	45060	No
7	GOM_TRA_1PNPDE20101013_004525_000000392093_00417_45060_1789.N1	13-OCT-2010 00:45:25	Bright	38.500	166	17Eps Leo	2.9800	6000.0	77	45060	No
8	GOM_TRA_1PNPDE20101013_005547_000000612093_00417_45060_1790.N1	13-OCT-2010 00:55:47	Dark	60.500	48	30Alp Hya	1.9770	4100.0	121	45060	No
9	GOM_TRA_1PNPDE20101013_010416_000000522093_00417_45060_1784.N1	13-OCT-2010 01:04:16	Dark	52.000	132	15Rho Pup	2.8030	6900.0	104	45060	No
10	GOM_TRA_1PNPDE20101013_010729_000000462093_00417_45060_1785.N1	13-OCT-2010 01:07:29	Dark	46.000	70	Zet Pup	2.2460	39000.	92	45060	No
11	GOM_TRA_1PNPDE20101013_011239_000000442093_00418_45061_1786.N1	13-OCT-2010 01:12:39	Dark	43.500	161	Tau Pup	2.9310	4500.0	87	45061	No
12	GOM_TRA_1PNPDE20101013_011401_000000562093_00418_45061_1787.N1	13-OCT-2010 01:14:01	Dark	56.000	2	Alp Car	-0.73600	7000.0	112	45061	No

13	GOM_TRA_1PNPDE20101013_011819_000000652093_00418_45061_1788.N1	13-OCT-2010 01:18:19	Dark	65.000	108	Alp Col	2.6520	15200.	130	45061	No
14	GOM_TRA_1PNPDE20101013_012600_000000462093_00418_45061_1789.N1	13-OCT-2010 01:26:00	Straylight	45.500	157	The1Eri	2.9060	9300.0	91	45061	No
15	GOM_TRA_1PNPDE20101013_014833_000000502093_00418_45061_1790.N1	13-OCT-2010 01:48:33	Bright	49.500	105	6Bet Ari	2.6450	8900.0	99	45061	No
16	GOM_TRA_1PNPDE20101013_015147_000000442093_00418_45061_1791.N1	13-OCT-2010 01:51:47	Bright	44.000	53	43Bet And	2.0480	3300.0	88	45061	No
17	GOM_TRA_1PNPDE20101013_015344_000000482093_00418_45061_1792.N1	13-OCT-2010 01:53:44	Bright	48.000	173	4Bet Tri	3.0040	8900.0	96	45061	No
18	GOM_TRA_1PNPDE20101013_015531_000000452093_00418_45061_1793.N1	13-OCT-2010 01:55:31	Bright	45.000	73	57Gam1And	2.2600	13100.	90	45061	No
19	GOM_TRA_1PNPDE20101013_015835_000000372093_00418_45061_1794.N1	13-OCT-2010 01:58:35	Bright	37.000	76	27Gam Cas	2.3000	30000.	74	45061	No
20	GOM_TRA_1PNPDE20101013_020055_000000472093_00418_45061_1795.N1	13-OCT-2010 02:00:55	Bright	46.500	160	23Gam Per	2.9300	4700.0	93	45061	No
21	GOM_TRA_1PNPDE20101013_022601_000000592093_00418_45061_1796.N1	13-OCT-2010 02:26:01	Bright	59.000	166	17Eps Leo	2.9800	6000.0	118	45061	No
22	GOM_TRA_1PNPDE20101013_023624_000000532093_00418_45061_1797.N1	13-OCT-2010 02:36:24	Dark	52.500	48	30Alp Hya	1.9770	4100.0	105	45061	No
23	GOM_TRA_1PNPDE20101013_024453_000000552093_00418_45061_1798.N1	13-OCT-2010 02:44:53	Dark	54.500	132	15Rho Pup	2.8030	6900.0	109	45061	No
24	GOM_TRA_1PNPDE20101013_024806_000000432093_00418_45061_1799.N1	13-OCT-2010 02:48:06	Dark	42.500	70	Zet Pup	2.2460	39000.	85	45061	No
25	GOM_TRA_1PNPDE20101013_025315_000000442093_00419_45062_1800.N1	13-OCT-2010 02:53:15	Dark	43.500	161	Tau Pup	2.9310	4500.0	87	45062	No
26	GOM_TRA_1PNPDE20101013_025438_000000462093_00419_45062_1801.N1	13-OCT-2010 02:54:38	Dark	45.500	2	Alp Car	-0.73600	7000.0	91	45062	No
27	GOM_TRA_1PNPDE20101013_025857_000000642093_00419_45062_1802.N1	13-OCT-2010 02:58:57	Dark	64.000	108	Alp Col	2.6520	15200.	128	45062	No
28	GOM_TRA_1PNPDE20101013_030637_000000462093_00419_45062_1803.N1	13-OCT-2010 03:06:37	Straylight	45.500	157	The1Eri	2.9060	9300.0	91	45062	No
29	GOM_TRA_1PNPDE20101013_032909_000000492093_00419_45062_1804.N1	13-OCT-2010 03:29:09	Bright	49.000	105	6Bet Ari	2.6450	8900.0	98	45062	No
30	GOM_TRA_1PNPDE20101013_033223_000000442093_00419_45062_1805.N1	13-OCT-2010 03:32:23	Bright	43.500	53	43Bet And	2.0480	3300.0	87	45062	No
31	GOM_TRA_1PNPDE20101013_033419_000000502093_00419_45062_1806.N1	13-OCT-2010 03:34:19	Bright	49.500	173	4Bet Tri	3.0040	8900.0	99	45062	No
32	GOM_TRA_1PNPDE20101013_033606_000000482093_00419_45062_1813.N1	13-OCT-2010 03:36:06	Bright	48.000	73	57Gam1And	2.2600	13100.	96	45062	Yes
33	GOM_TRA_1PNPDE20101013_033911_000000372093_00419_45062_1814.N1	13-OCT-2010 03:39:11	Bright	37.000	76	27Gam Cas	2.3000	30000.	74	45062	No
34	GOM_TRA_1PNPDE20101013_034130_000000492093_00419_45062_1815.N1	13-OCT-2010 03:41:30	Bright	49.000	160	23Gam Per	2.9300	4700.0	98	45062	No
35	GOM_TRA_1PNPDE20101013_040638_000000412093_00419_45062_1816.N1	13-OCT-2010 04:06:38	Bright	41.000	166	17Eps Leo	2.9800	6000.0	82	45062	No
36	GOM_TRA_1PNPDE20101013_041700_000000532093_00419_45062_1817.N1	13-OCT-2010 04:17:00	Dark	53.000	48	30Alp Hya	1.9770	4100.0	106	45062	No
37	GOM_TRA_1PNPDE20101013_042530_000000522093_00419_45062_1818.N1	13-OCT-2010 04:25:30	Dark	52.000	132	15Rho Pup	2.8030	6900.0	104	45062	No
38	GOM_TRA_1PNPDE20101013_042843_000000432093_00419_45062_1819.N1	13-OCT-2010 04:28:43	Dark	43.000	70	Zet Pup	2.2460	39000.	86	45062	No
39	GOM_TRA_1PNPDE20101013_043352_000000422093_00420_45063_1820.N1	13-OCT-2010 04:33:52	Dark	42.000	161	Tau Pup	2.9310	4500.0	84	45063	No
40	GOM_TRA_1PNPDE20101013_043514_000000472093_00420_45063_1821.N1	13-OCT-2010 04:35:14	Dark	46.500	2	Alp Car	-0.73600	7000.0	93	45063	No
41	GOM_TRA_1PNPDE20101013_043934_000000652093_00420_45063_1822.N1	13-OCT-2010 04:39:34	Dark	64.500	108	Alp Col	2.6520	15200.	129	45063	No
42	GOM_TRA_1PNPDE20101013_044713_000000472093_00420_45063_1823.N1	13-OCT-2010 04:47:13	Straylight	47.000	157	The1Eri	2.9060	9300.0	94	45063	No
43	GOM_TRA_1PNPDE20101013_050944_000000482093_00420_45063_1824.N1	13-OCT-2010 05:09:44	Bright	48.000	105	6Bet Ari	2.6450	8900.0	96	45063	No
44	GOM_TRA_1PNPDE20101013_051259_000000412093_00420_45063_1825.N1	13-OCT-2010 05:12:59	Bright	40.500	53	43Bet And	2.0480	3300.0	81	45063	No
45	GOM_TRA_1PNPDE20101013_051454_000000492093_00420_45063_1826.N1	13-OCT-2010 05:14:54	Bright	49.000	173	4Bet Tri	3.0040	8900.0	98	45063	No
46	GOM_TRA_1PNPDE20101013_051642_000000482093_00420_45063_1827.N1	13-OCT-2010 05:16:42	Bright	47.500	73	57Gam1And	2.2600	13100.	95	45063	No
47	GOM_TRA_1PNPDE20101013_051947_000000392093_00420_45063_1828.N1	13-OCT-2010 05:19:47	Bright	38.500	76	27Gam Cas	2.3000	30000.	77	45063	No
48	GOM_TRA_1PNPDE20101013_052205_000000482093_00420_45063_1829.N1	13-OCT-2010 05:22:05	Bright	47.500	160	23Gam Per	2.9300	4700.0	95	45063	No
49	GOM_TRA_1PNPDE20101013_054714_000000412093_00420_45063_4774.N1	13-OCT-2010 05:47:14	Bright	41.000	166	17Eps Leo	2.9800	6000.0	82	45063	No
50	GOM_TRA_1PNPDE20101013_055737_000000502093_00420_45063_4775.N1	13-OCT-2010 05:57:37	Dark	50.000	48	30Alp Hya	1.9770	4100.0	100	45063	No
51	GOM_TRA_1PNPDE20101013_060607_000000552093_00420_45063_4776.N1	13-OCT-2010 06:06:07	Dark	54.500	132	15Rho Pup	2.8030	6900.0	109	45063	No
52	GOM_TRA_1PNPDE20101013_060919_000000442093_00420_45063_4777.N1	13-OCT-2010 06:09:19	Dark	44.000	70	Zet Pup	2.2460	39000.	88	45063	No
53	GOM_TRA_1PNPDE20101013_061429_000000442093_00421_45064_4778.N1	13-OCT-2010 06:14:29	Dark	44.000	161	Tau Pup	2.9310	4500.0	88	45064	No
54	GOM_TRA_1PNPDE20101013_061551_000000612093_00421_45064_4779.N1	13-OCT-2010 06:15:51	Dark	61.000	2	Alp Car	-0.73600	7000.0	122	45064	No
55	GOM_TRA_1PNPDE20101013_062012_000000642093_00421_45064_4780.N1	13-OCT-2010 06:20:12	Dark	63.500	108	Alp Col	2.6520	15200.	127	45064	No
56	GOM_TRA_1PNPDE20101013_062750_000000472093_00421_45064_4781.N1	13-OCT-2010 06:27:50	Straylight	46.500	157	The1Eri	2.9060	9300.0	93	45064	No
57	GOM_TRA_1PNPDE20101013_065020_000000502093_00421_45064_4782.N1	13-OCT-2010 06:50:20	Bright	49.500	105	6Bet Ari	2.6450	8900.0	99	45064	No
58	GOM_TRA_1PNPDE20101013_065335_000000442093_00421_45064_4783.N1	13-OCT-2010 06:53:35	Bright	44.000	53	43Bet And	2.0480	3300.0	88	45064	No
59	GOM_TRA_1PNPDE20101013_065529_000000492093_00421_45064_4784.N1	13-OCT-2010 06:55:29	Bright	48.500	173	4Bet Tri	3.0040	8900.0	97	45064	No
60	GOM_TRA_1PNPDE20101013_065717_000000492093_00421_45064_4785.N1	13-OCT-2010 06:57:17	Bright	48.500	73	57Gam1And	2.2600	13100.	97	45064	No
61	GOM_TRA_1PNPDE20101013_070022_000000392093_00421_45064_4786.N1	13-OCT-2010 07:00:22	Bright	38.500	76	27Gam Cas	2.3000	30000.	77	45064	No
62	GOM_TRA_1PNPDE20101013_070240_000000492093_00421_45064_4787.N1	13-OCT-2010 07:02:40	Bright	48.500	160	23Gam Per	2.9300	4700.0	97	45064	No
63	GOM_TRA_1PNPDE20101013_195241_000000462093_00429_45072_1965.N1	13-OCT-2010 19:52:41	Straylight	46.000	157	The1Eri	2.9060	9300.0	92	45072	No
64	GOM_TRA_1PNPDE20101013_201501_000000492093_00429_45072_1966.N1	13-OCT-2010 20:15:01	Bright	48.500	105	6Bet Ari	2.6450	8900.0	97	45072	No
65	GOM_TRA_1PNPDE20101013_201819_000000402093_00429_45072_1967.N1	13-OCT-2010 20:18:19	Bright	40.000	53	43Bet And	2.0480	3300.0	80	45072	No
66	GOM_TRA_1PNPDE20101013_202010_000000552093_00429_45072_1968.N1	13-OCT-2010 20:20:10	Bright	54.500	173	4Bet Tri	3.0040	8900.0	109	45072	No
67	GOM_TRA_1PNPDE20101013_202158_000000462093_00429_45072_1969.N1	13-OCT-2010 20:21:58	Bright	46.000	73	57Gam1And	2.2600	13100.	92	45072	No
68	GOM_TRA_1PNPDE20101013_202508_000000402093_00429_45072_1970.N1	13-OCT-2010 20:25:08	Bright	39.500	76	27Gam Cas	2.3000	30000.	79	45072	No
69	GOM_TRA_1PNPDE20101013_202721_000000492093_00429_45072_1971.N1	13-OCT-2010 20:27:21	Bright	49.000	160	23Gam Per	2.9300	4700.0	98	45072	No
70	GOM_TRA_1PNPDE20101013_205239_000000592093_00429_45072_1972.N1	13-OCT-2010 20:52:39	Bright	58.500	166	17Eps Leo	2.9800	6000.0	117	45072	No
71	GOM_TRA_1PNPDE20101013_210306_000000532093_00429_45072_1993.N1	13-OCT-2010 21:03:06	Dark	53.000	48	30Alp Hya	1.9770	4100.0	106	45072	No

72	GOM_TRA_1PNPDE20101013_211141_000000532093_00429_45072_1994.N1	13-OCT-2010 21:11:41	Dark	52.500	132	15Rho Pup	2.8030	6900.0	105	45072	No
73	GOM_TRA_1PNPDE20101013_211451_000000442093_00429_45072_1995.N1	13-OCT-2010 21:14:51	Dark	43.500	70	Zet Pup	2.2460	39000.	87	45072	No
74	GOM_TRA_1PNPDE20101013_212000_000000432093_00430_45073_1996.N1	13-OCT-2010 21:20:00	Dark	43.000	161	Tau Pup	2.9310	4500.0	86	45073	No
75	GOM_TRA_1PNPDE20101013_212121_000000452093_00430_45073_1997.N1	13-OCT-2010 21:21:21	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	45073	No
76	GOM_TRA_1PNPDE20101013_212548_000000642093_00430_45073_1998.N1	13-OCT-2010 21:25:48	Dark	64.000	108	Alp Col	2.6520	15200.	128	45073	No
77	GOM_TRA_1PNPDE20101013_213318_000000472093_00430_45073_1999.N1	13-OCT-2010 21:33:18	Straylight	47.000	157	The1Eri	2.9060	9300.0	94	45073	No
78	GOM_TRA_1PNPDE20101013_215537_000000492093_00430_45073_2000.N1	13-OCT-2010 21:55:37	Bright	49.000	105	6Bet Ari	2.6450	8900.0	98	45073	No
79	GOM_TRA_1PNPDE20101013_215854_000000402093_00430_45073_2001.N1	13-OCT-2010 21:58:54	Bright	39.500	53	43Bet And	2.0480	3300.0	79	45073	No
80	GOM_TRA_1PNPDE20101013_220045_000000472093_00430_45073_2002.N1	13-OCT-2010 22:00:45	Bright	47.000	173	4Bet Tri	3.0040	8900.0	94	45073	No
81	GOM_TRA_1PNPDE20101013_220233_000000482093_00430_45073_2003.N1	13-OCT-2010 22:02:33	Bright	47.500	73	57Gam1And	2.2600	13100.	95	45073	No
82	GOM_TRA_1PNPDE20101013_220543_000000392093_00430_45073_2004.N1	13-OCT-2010 22:05:43	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	45073	No
83	GOM_TRA_1PNPDE20101013_220756_000000472093_00430_45073_2005.N1	13-OCT-2010 22:07:56	Bright	47.000	160	23Gam Per	2.9300	4700.0	94	45073	No
84	GOM_TRA_1PNPDE20101013_223315_000000412093_00430_45073_2006.N1	13-OCT-2010 22:33:15	Bright	41.000	166	17Eps Leo	2.9800	6000.0	82	45073	No
85	GOM_TRA_1PNPDE20101013_224342_000000532093_00430_45073_2019.N1	13-OCT-2010 22:43:42	Dark	52.500	48	30Alp Hya	1.9770	4100.0	105	45073	No
86	GOM_TRA_1PNPDE20101013_225218_000000512093_00430_45073_2020.N1	13-OCT-2010 22:52:18	Dark	51.000	132	15Rho Pup	2.8030	6900.0	102	45073	No
87	GOM_TRA_1PNPDE20101013_225528_000000462093_00430_45073_2021.N1	13-OCT-2010 22:55:28	Dark	45.500	70	Zet Pup	2.2460	39000.	91	45073	No
88	GOM_TRA_1PNPDE20101013_230036_000000442093_00431_45074_2022.N1	13-OCT-2010 23:00:36	Dark	43.500	161	Tau Pup	2.9310	4500.0	87	45074	No
89	GOM_TRA_1PNPDE20101013_230158_000000452093_00431_45074_2023.N1	13-OCT-2010 23:01:58	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	45074	No
90	GOM_TRA_1PNPDE20101013_230625_000000642093_00431_45074_2024.N1	13-OCT-2010 23:06:25	Dark	63.500	108	Alp Col	2.6520	15200.	127	45074	No
91	GOM_TRA_1PNPDE20101013_231354_000000462093_00431_45074_2025.N1	13-OCT-2010 23:13:54	Straylight	45.500	157	The1Eri	2.9060	9300.0	91	45074	No
92	GOM_TRA_1PNPDE20101013_233612_000000502093_00431_45074_2026.N1	13-OCT-2010 23:36:12	Bright	49.500	105	6Bet Ari	2.6450	8900.0	99	45074	No
93	GOM_TRA_1PNPDE20101013_233929_000000432093_00431_45074_2027.N1	13-OCT-2010 23:39:29	Bright	43.000	53	43Bet And	2.0480	3300.0	86	45074	No
94	GOM_TRA_1PNPDE20101013_234120_000000482093_00431_45074_2028.N1	13-OCT-2010 23:41:20	Bright	48.000	173	4Bet Tri	3.0040	8900.0	96	45074	No
95	GOM_TRA_1PNPDE20101013_234309_000000442093_00431_45074_2029.N1	13-OCT-2010 23:43:09	Bright	44.000	73	57Gam1And	2.2600	13100.	88	45074	No
96	GOM_TRA_1PNPDE20101013_234619_000000382093_00431_45074_2030.N1	13-OCT-2010 23:46:19	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	45074	No
97	GOM_TRA_1PNPDE20101013_234831_000000472093_00431_45074_2031.N1	13-OCT-2010 23:48:31	Bright	46.500	160	23Gam Per	2.9300	4700.0	93	45074	No

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



4. Overview of dark signal processing per product

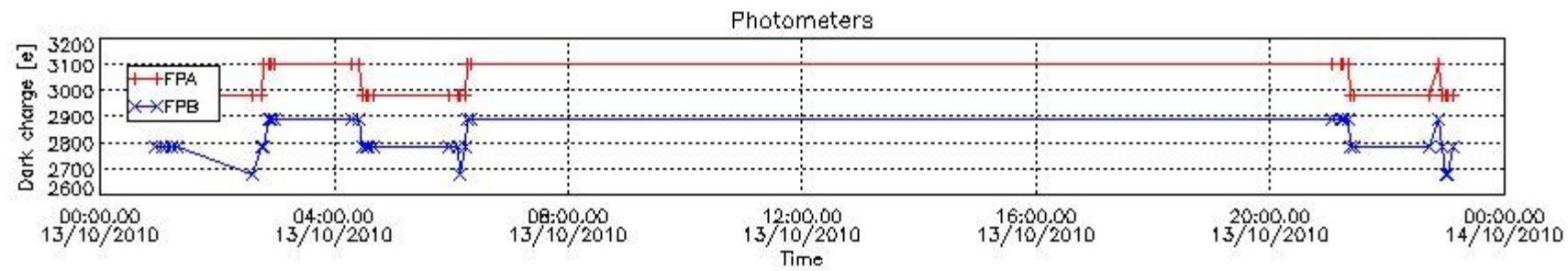
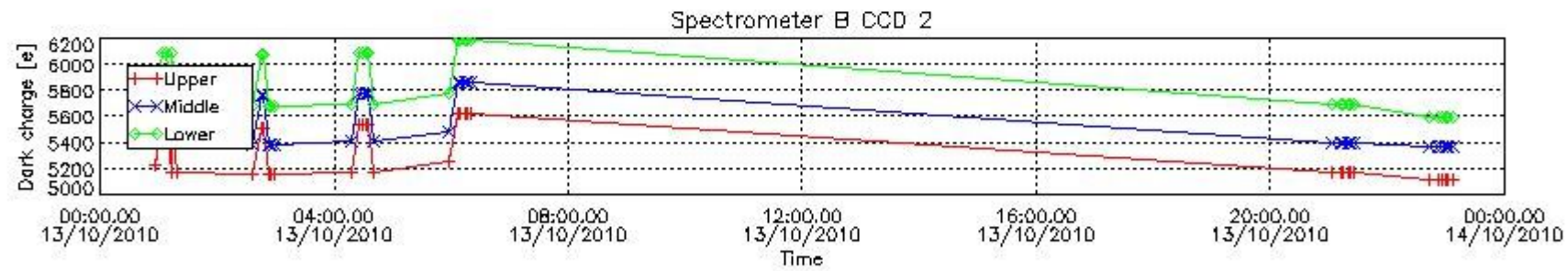
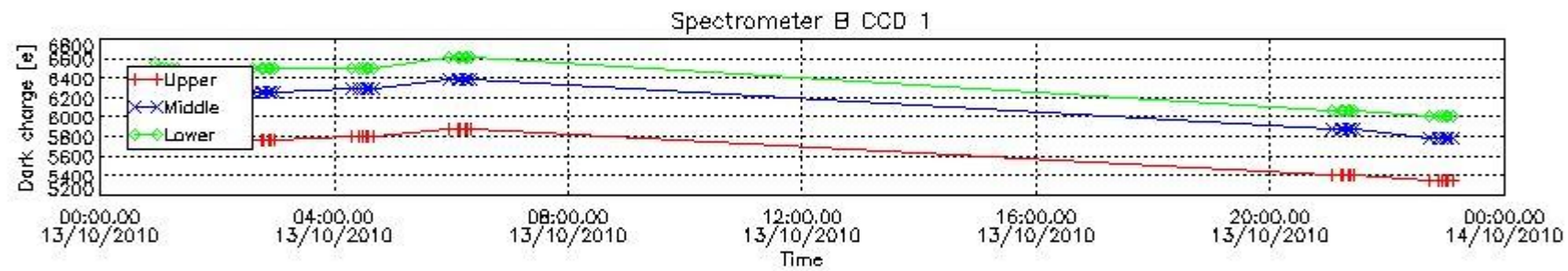
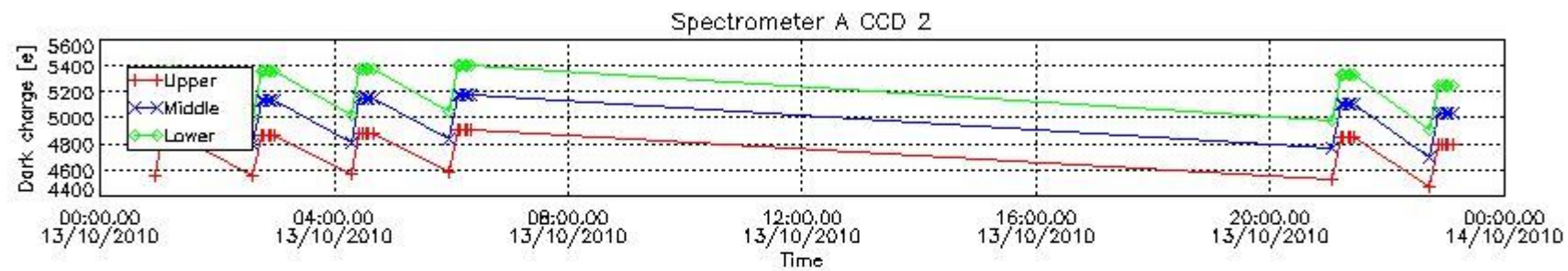
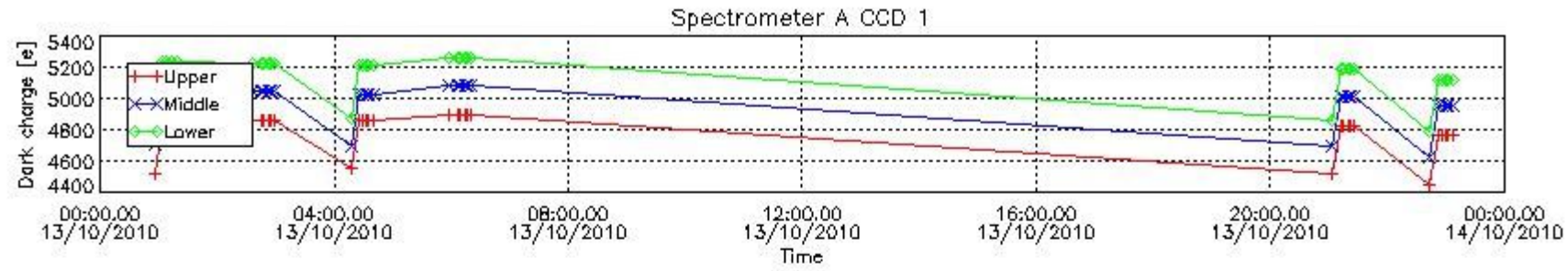
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20101013_195241_000000462093_00429_45072_1965.N1	DC map used
GOM_TRA_1PNPDE20101013_201501_000000492093_00429_45072_1966.N1	DC map used
GOM_TRA_1PNPDE20101013_201819_000000402093_00429_45072_1967.N1	DC map used
GOM_TRA_1PNPDE20101013_202010_000000552093_00429_45072_1968.N1	DC map used
GOM_TRA_1PNPDE20101013_202158_000000462093_00429_45072_1969.N1	DC map used
GOM_TRA_1PNPDE20101013_202508_000000402093_00429_45072_1970.N1	DC map used
GOM_TRA_1PNPDE20101013_202721_000000492093_00429_45072_1971.N1	DC map used
GOM_TRA_1PNPDE20101013_205239_000000592093_00429_45072_1972.N1	DC map used

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



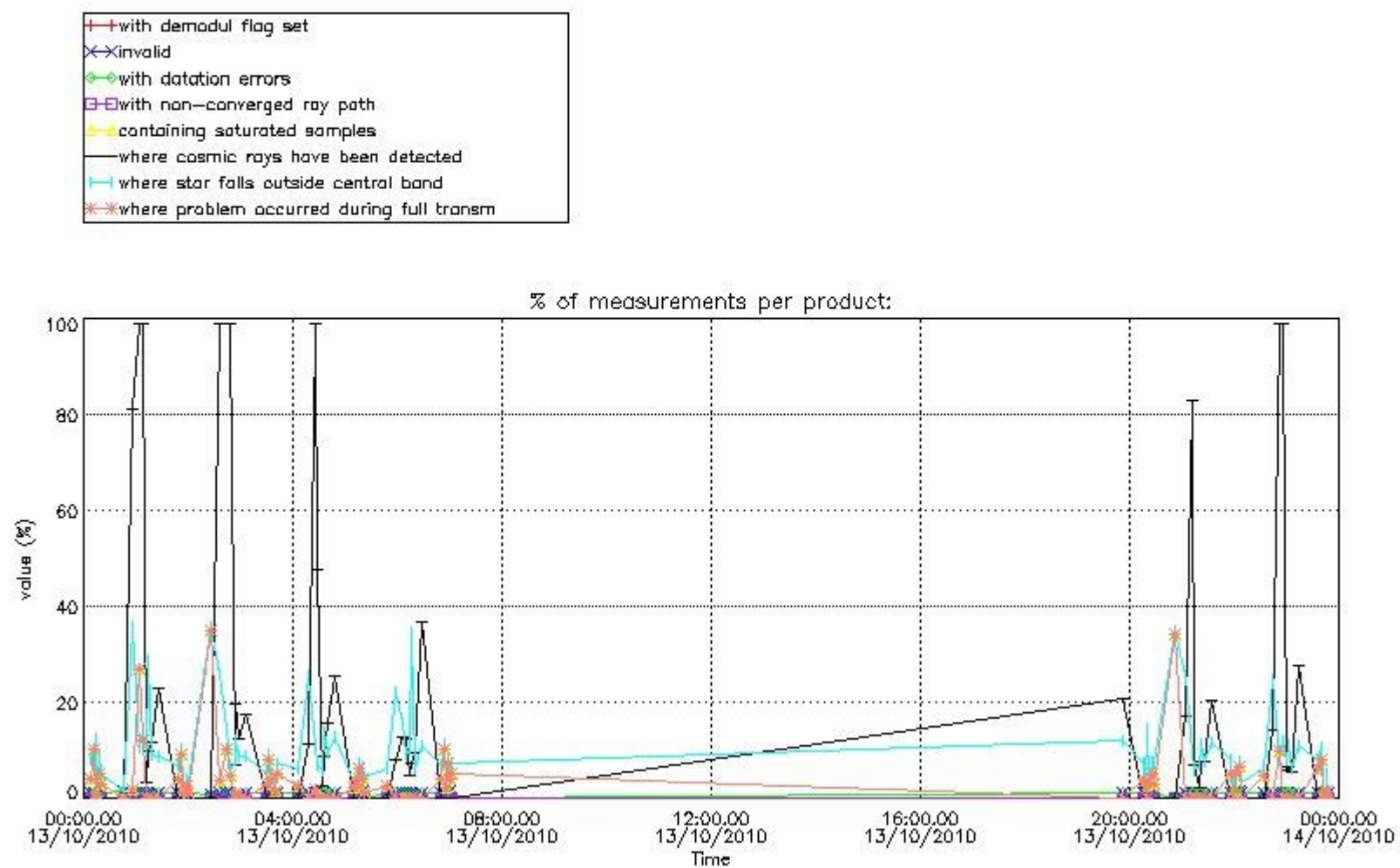
5. Demodulation flag and quality information monitoring

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.

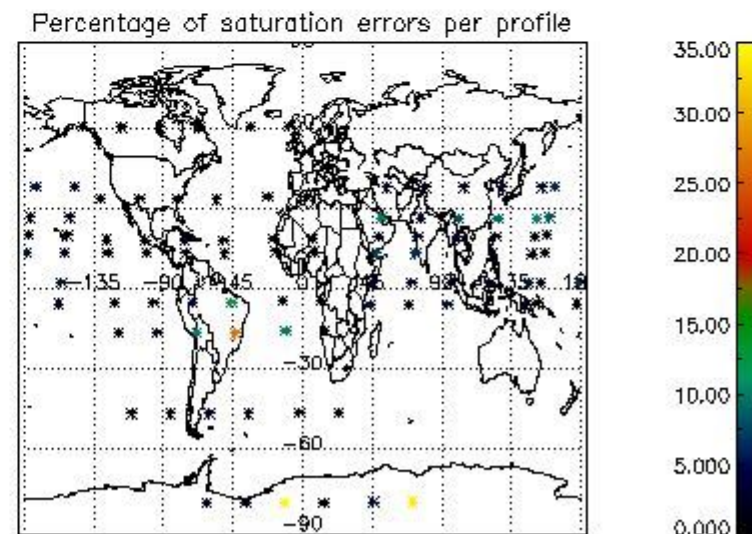
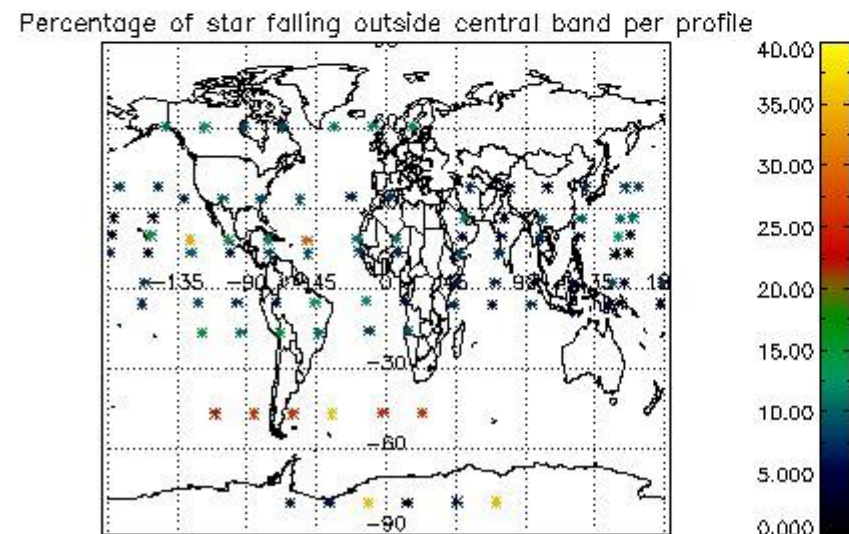
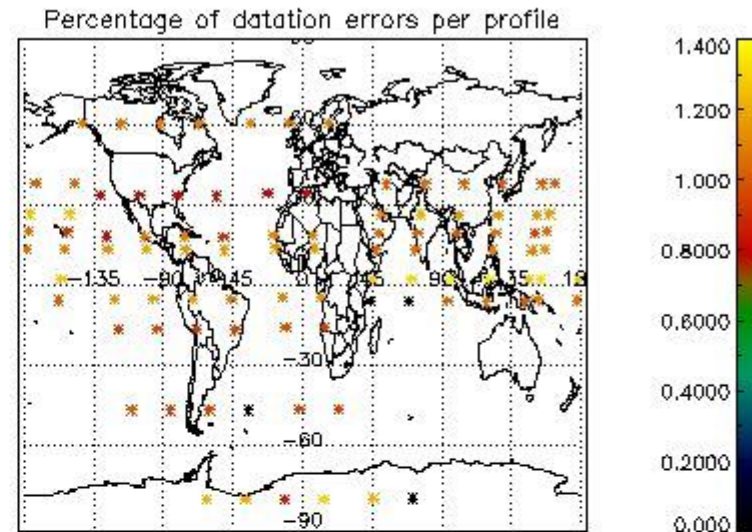
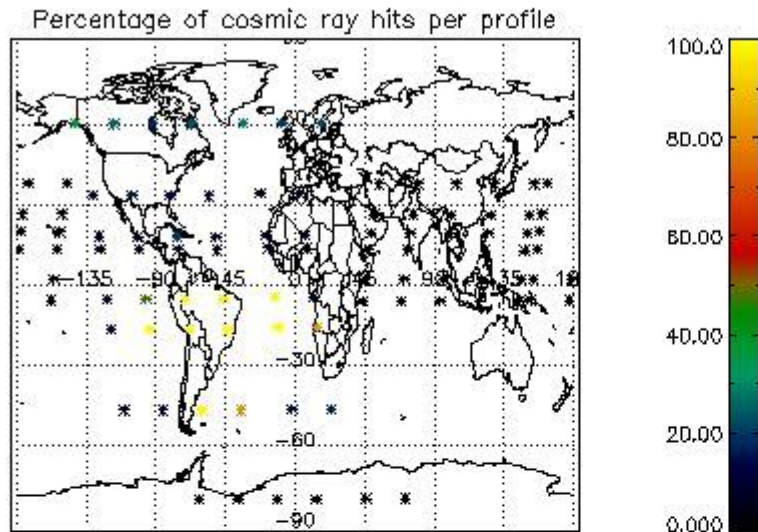
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	39.5833 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



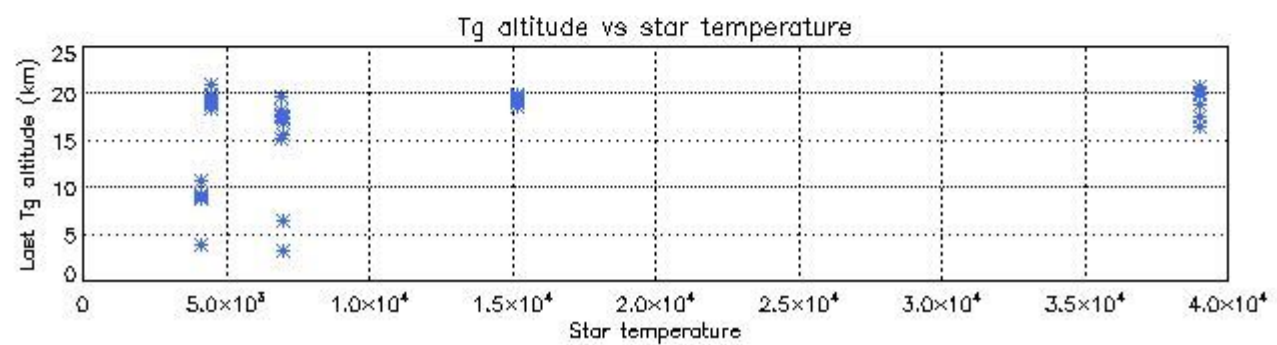
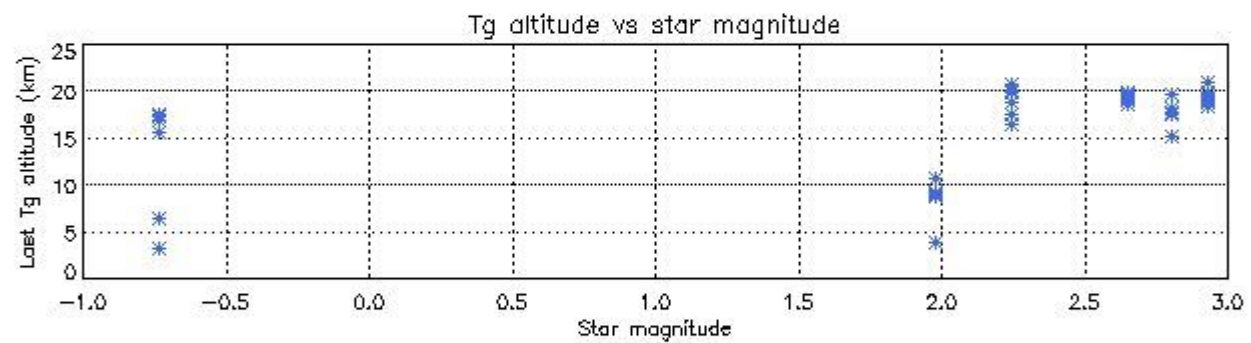
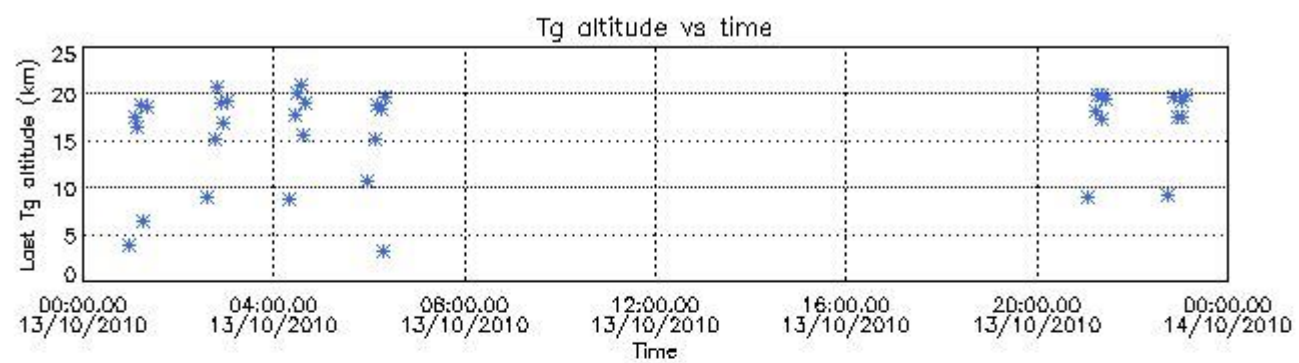
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.002	20.707	NaN
St. deviation:	4.9683	4.0986	NaN
Maximum:	20.846	25.359	NaN
Minimum:	3.1439	3.7641	NaN
Number of data:	36.000	53.000	NaN

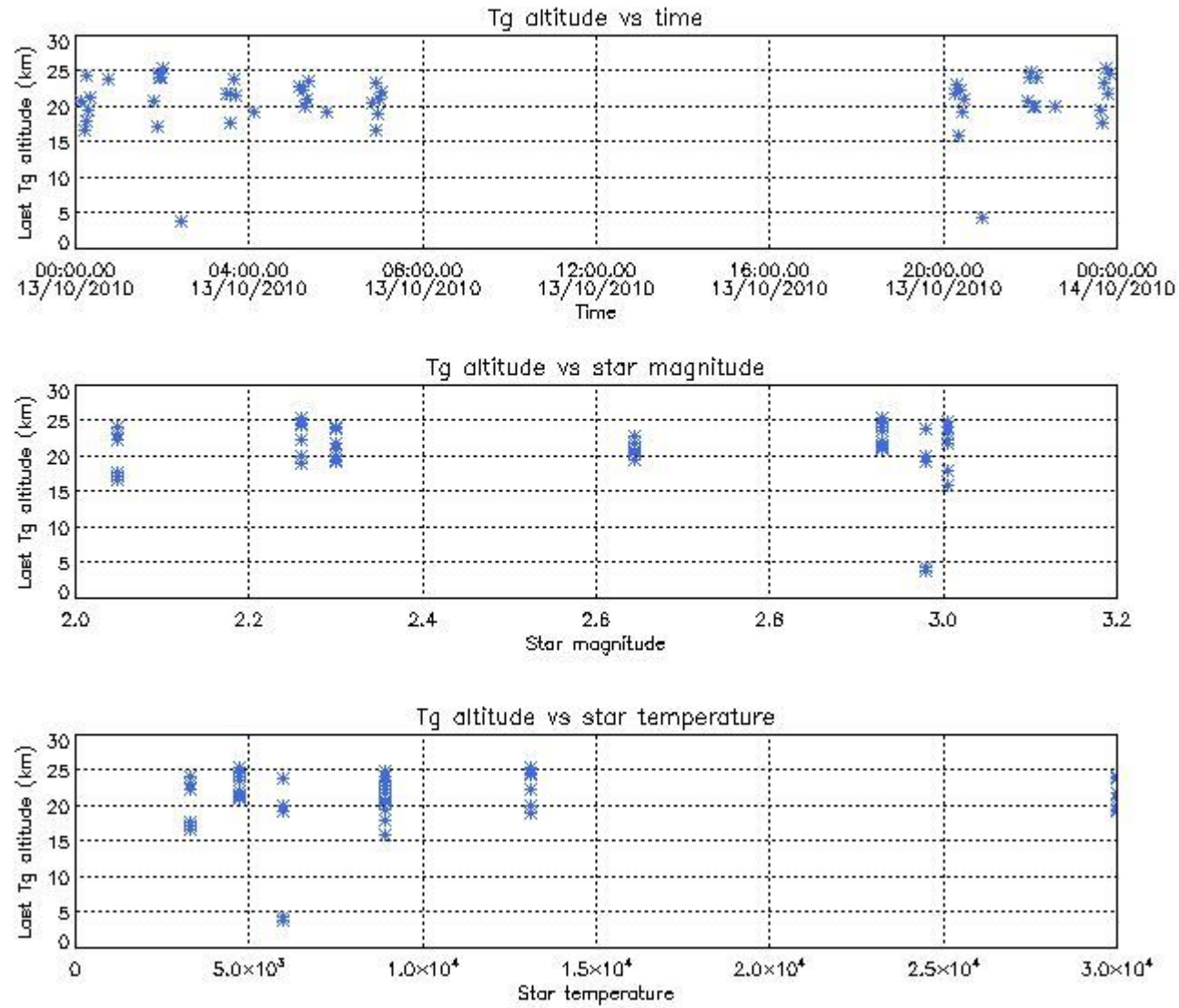
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

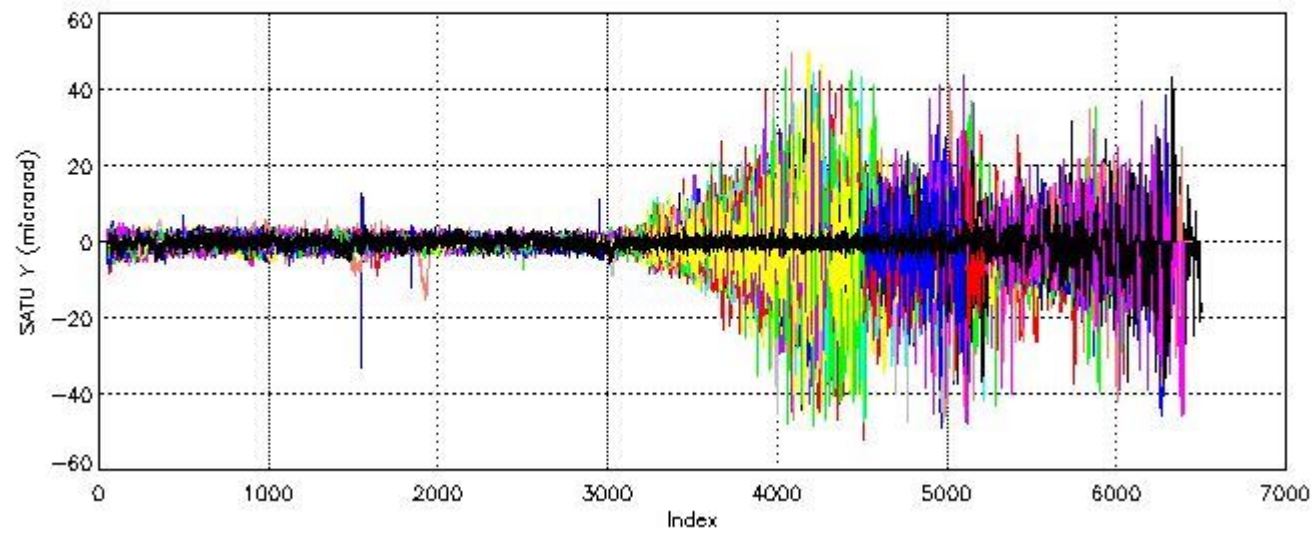
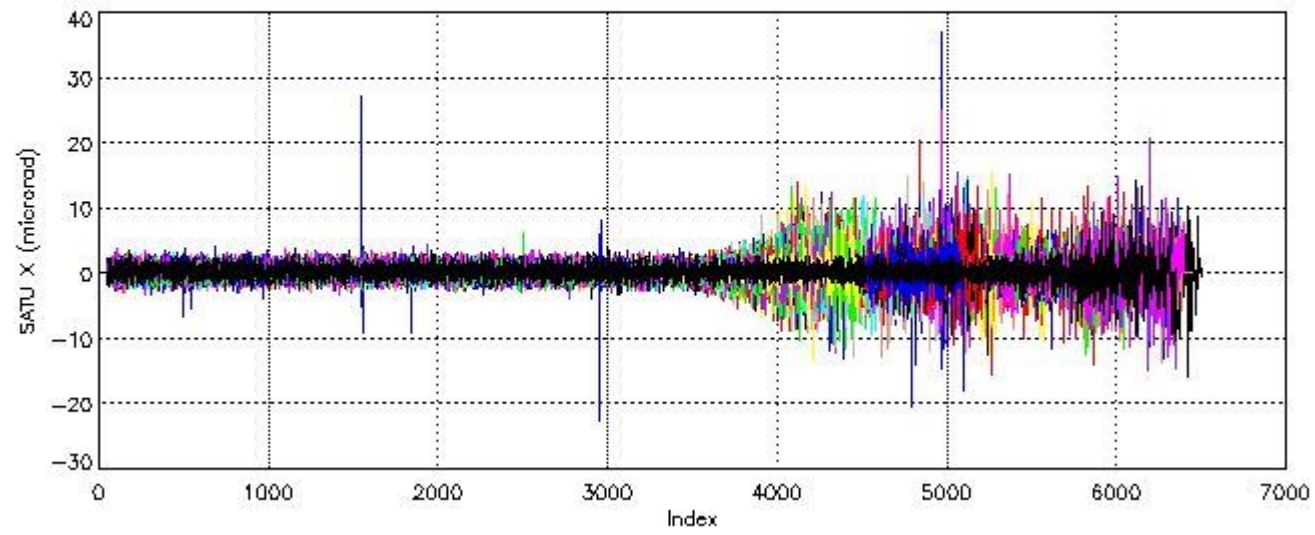


7. Star Acquisition and Tracking Unit (SATU)

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:	0.20604	-0.38304	0.25112	-0.36130
St. deviation:	0.58953	1.3428	0.82820	1.4433
Maximum:	4.1000	7.1000	5.8000	7.3000
Minimum:	-6.8000	-8.5000	-6.0000	-7.7000

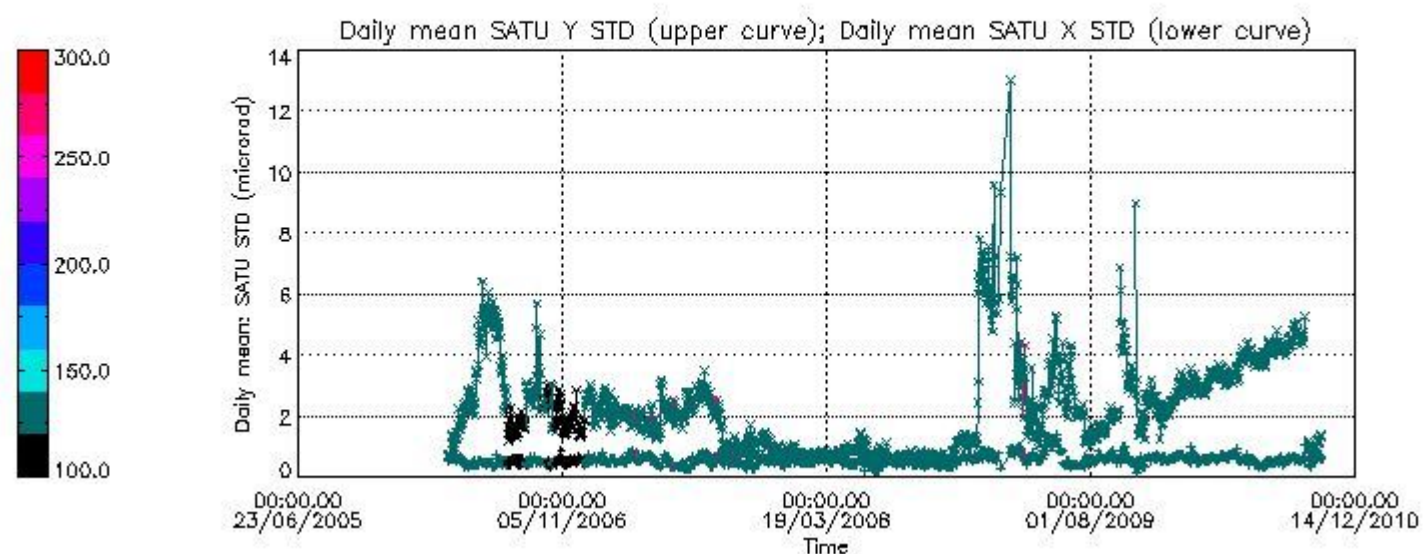
Number of data:	39600.	39600.	59600.	59600.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

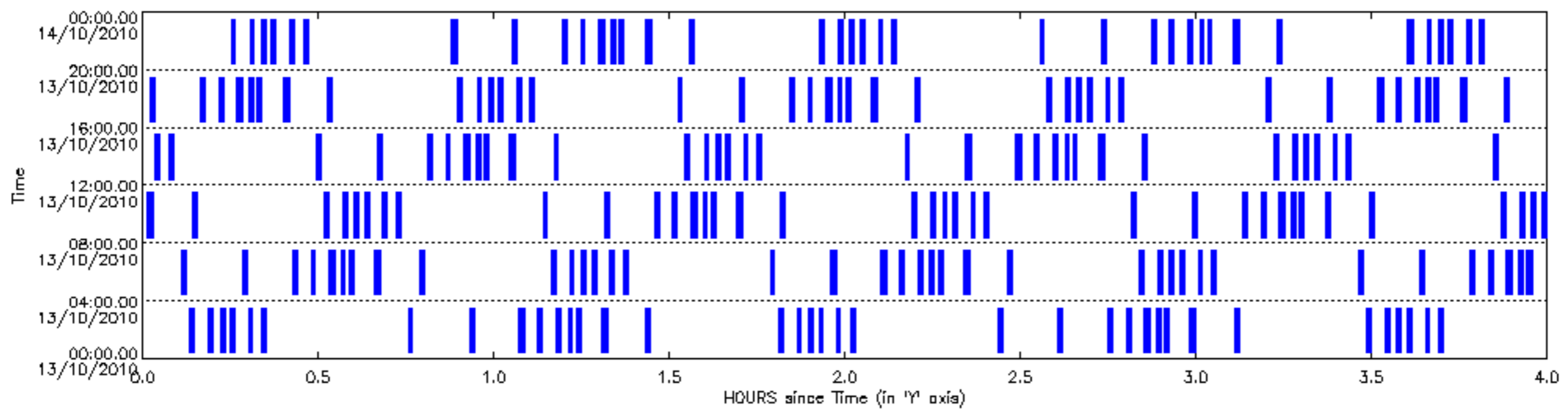
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

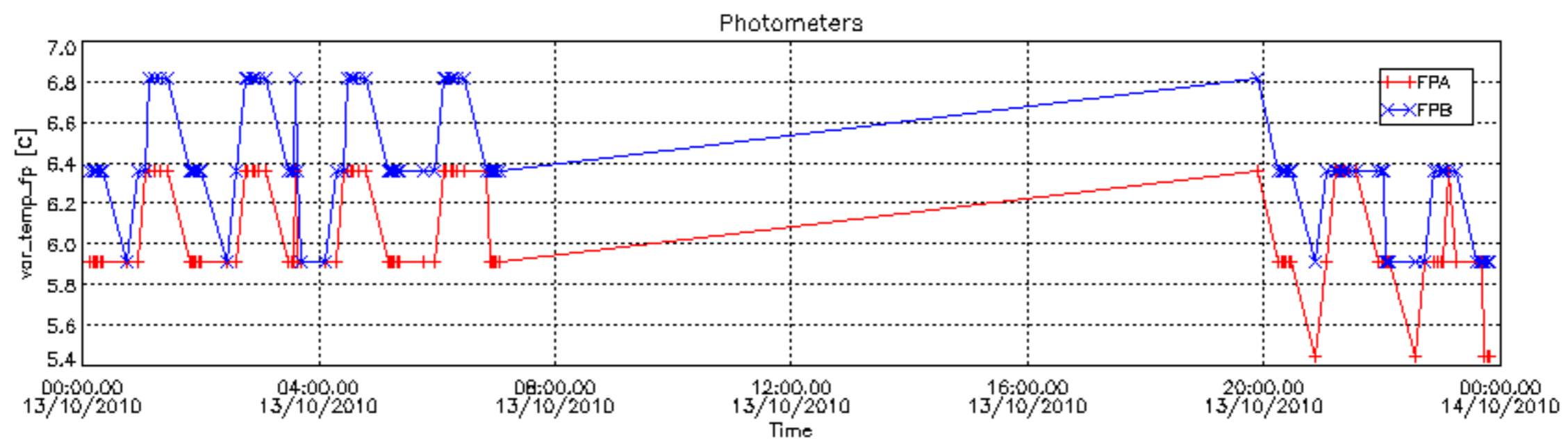
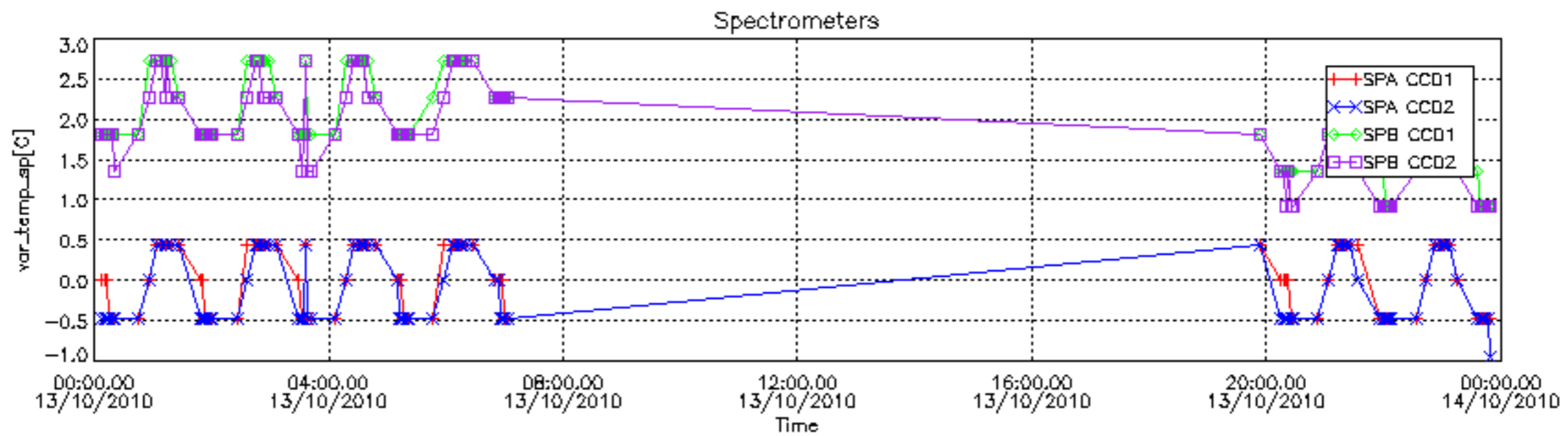


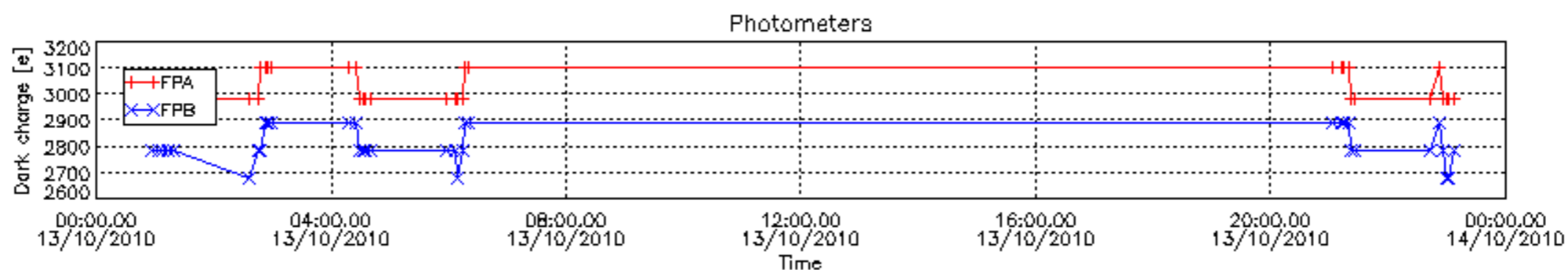
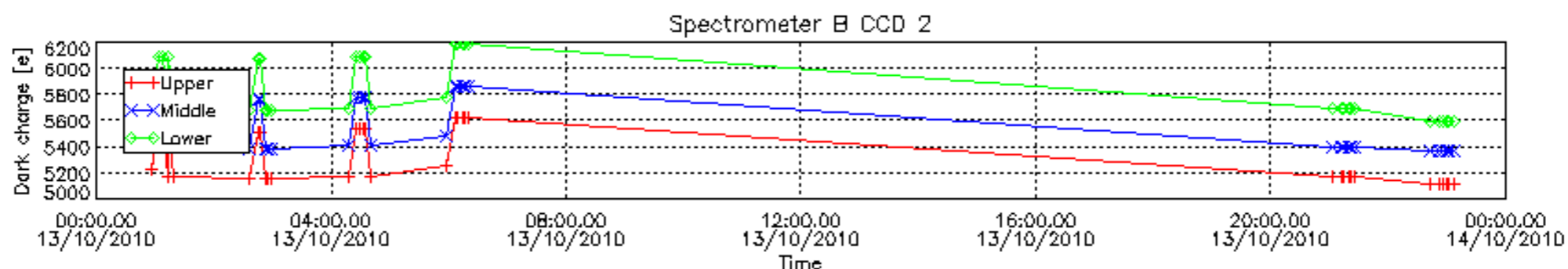
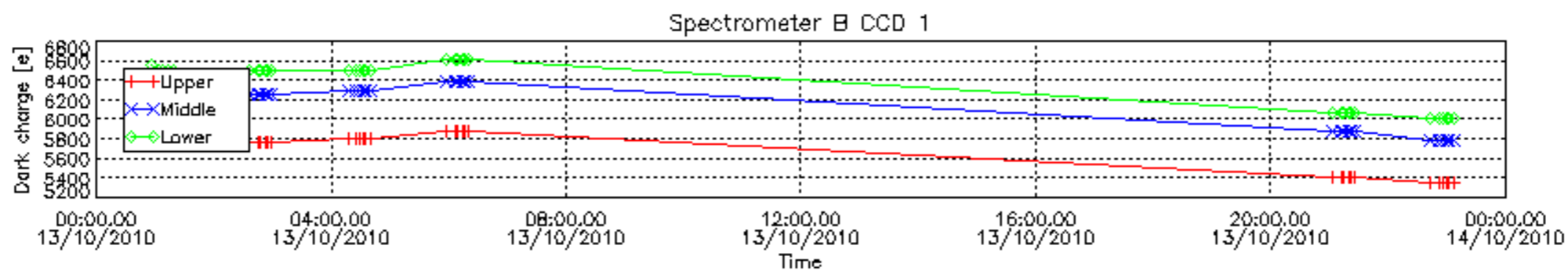
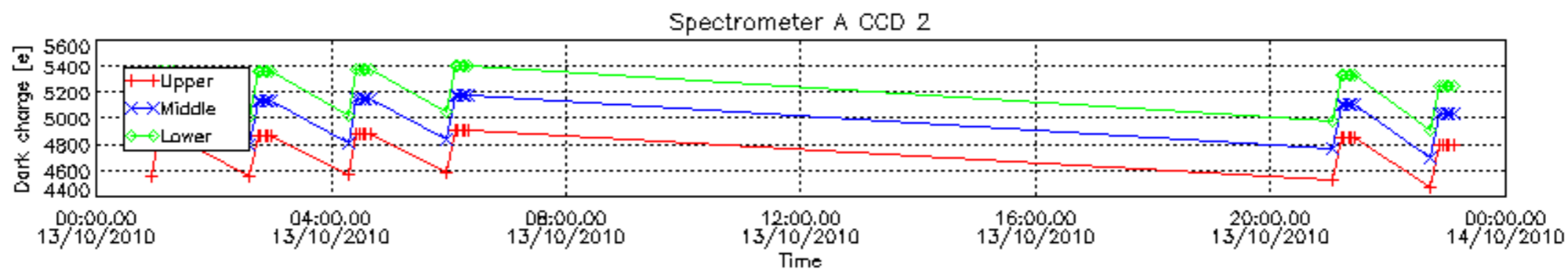
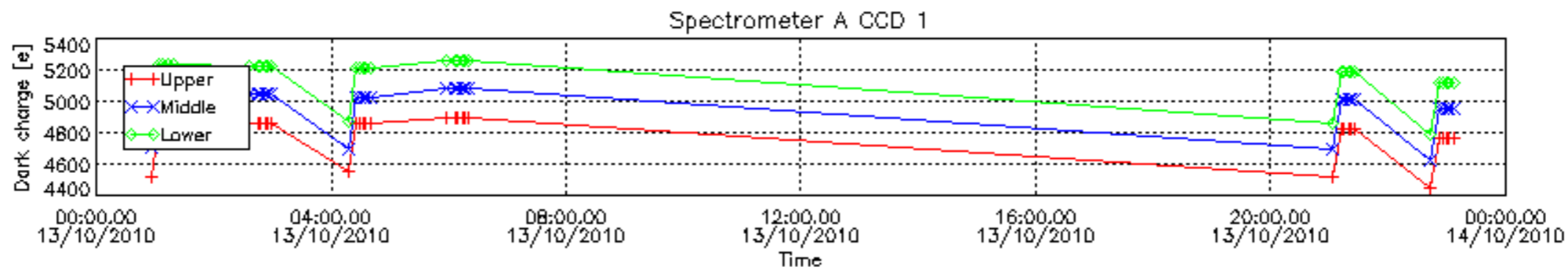
8. Auxiliary Data Files used for the production reported in section 2.4

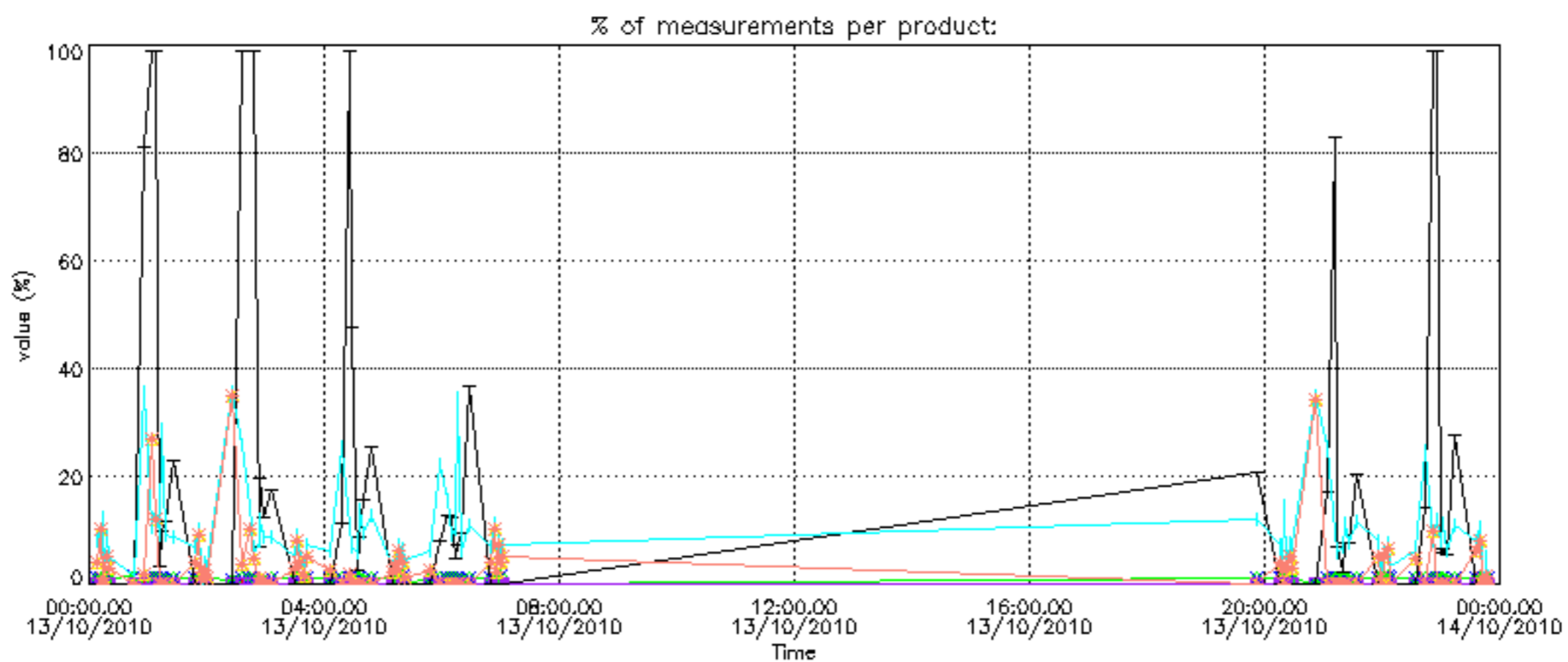
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	13-OCT-2010 00:07:58
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20101004_093812_20101002_000000_20500101_000000	1	13-OCT-2010 00:07:58
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20101011_092457_20101009_000000_20500101_000000	63	13-OCT-2010 19:52:41
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	13-OCT-2010 00:07:58
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	13-OCT-2010 00:07:58
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	13-OCT-2010 00:07:58
ECMWF_FILE	AUX_ECF_AXNECM20101012_054113_20101012_210000_20101013_090000	1	13-OCT-2010 00:07:58
ECMWF_FILE	AUX_ECF_AXNECM20101012_173016_20101013_030000_20101013_150000	32	13-OCT-2010 03:36:06
ECMWF_FILE	AUX_ECA_AXNECM20101013_052114_20101012_210000_20101013_090000	49	13-OCT-2010 05:47:14
ECMWF_FILE	AUX_ECA_AXNECM20101013_171836_20101013_090000_20101013_210000	63	13-OCT-2010 19:52:41
ECMWF_FILE	AUX_ECF_AXNECM20101013_054113_20101013_210000_20101014_090000	71	13-OCT-2010 21:03:06
OPTIONAL_ECMWF_FILE	MISSING	1	13-OCT-2010 00:07:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101012_231246_000057382093_00416_45059_1732.N1	1	13-OCT-2010 00:07:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101013_005343_000092452093_00417_45060_1733.N1	9	13-OCT-2010 01:04:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101013_033307_000066952093_00419_45062_1734.N1	32	13-OCT-2010 03:36:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101013_053000_000057382093_00420_45063_4731.N1	49	13-OCT-2010 05:47:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101013_195044_000035072093_00429_45072_1739.N1	63	13-OCT-2010 19:52:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101013_205429_000060572093_00429_45072_1740.N1	71	13-OCT-2010 21:03:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101013_224045_000057382093_00430_45073_1741.N1	85	13-OCT-2010 22:43:42

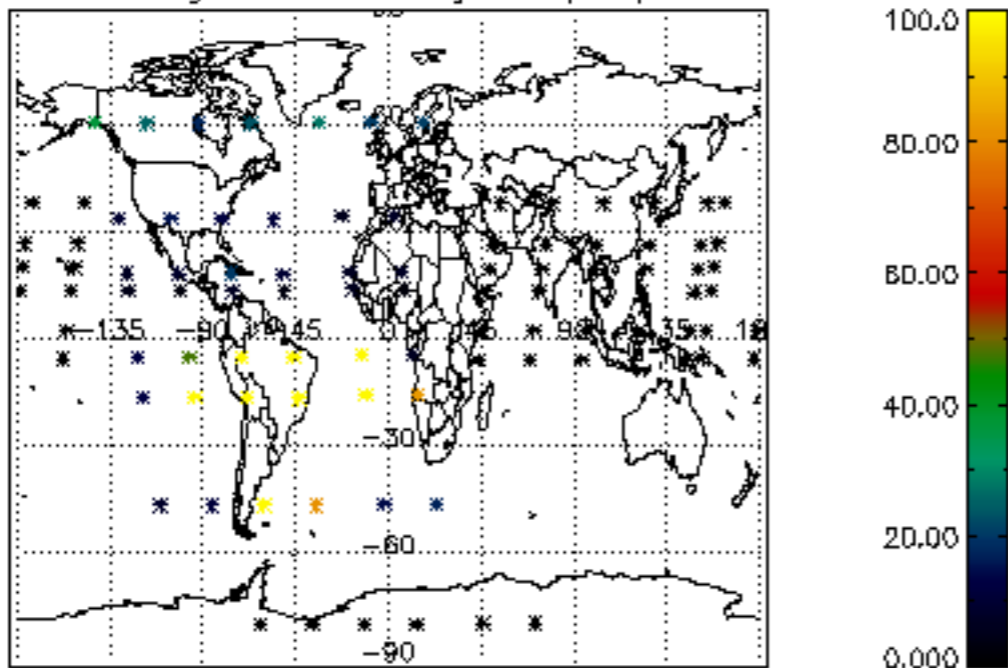




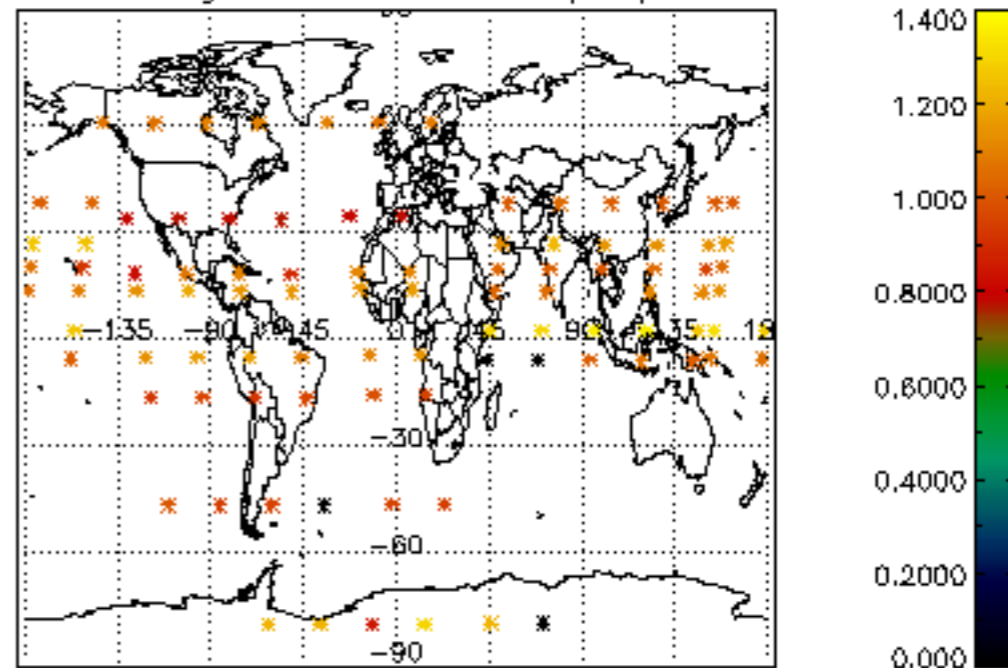




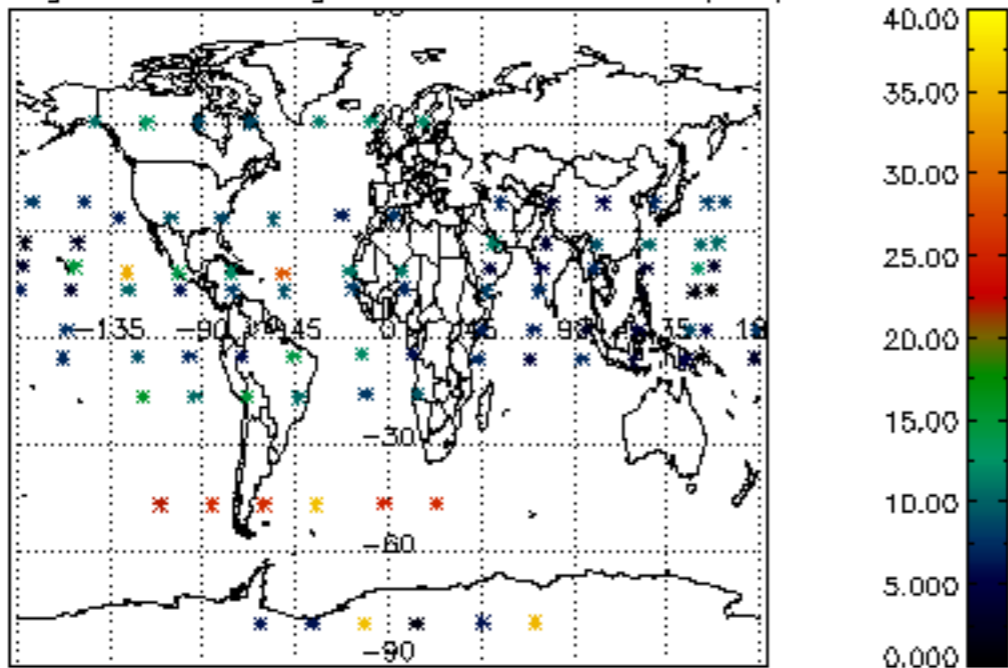
Percentage of cosmic ray hits per profile



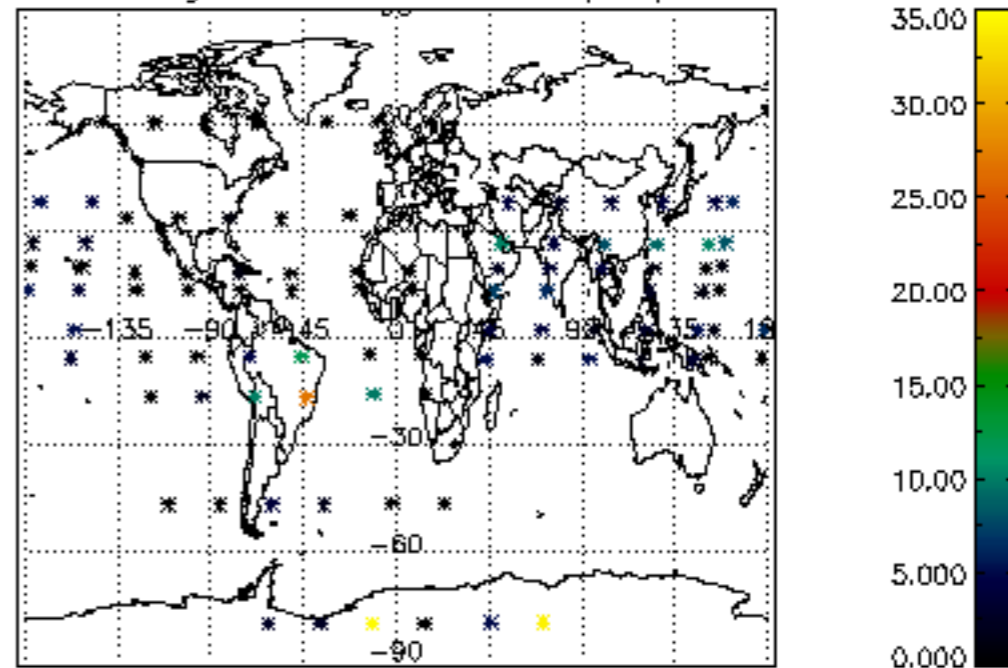
Percentage of datation errors per profile



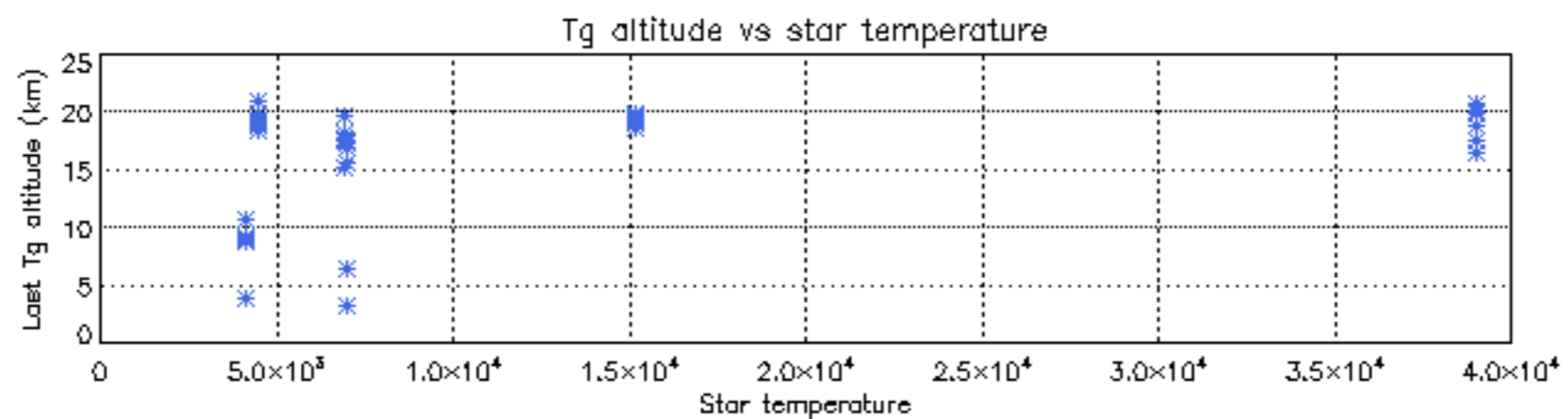
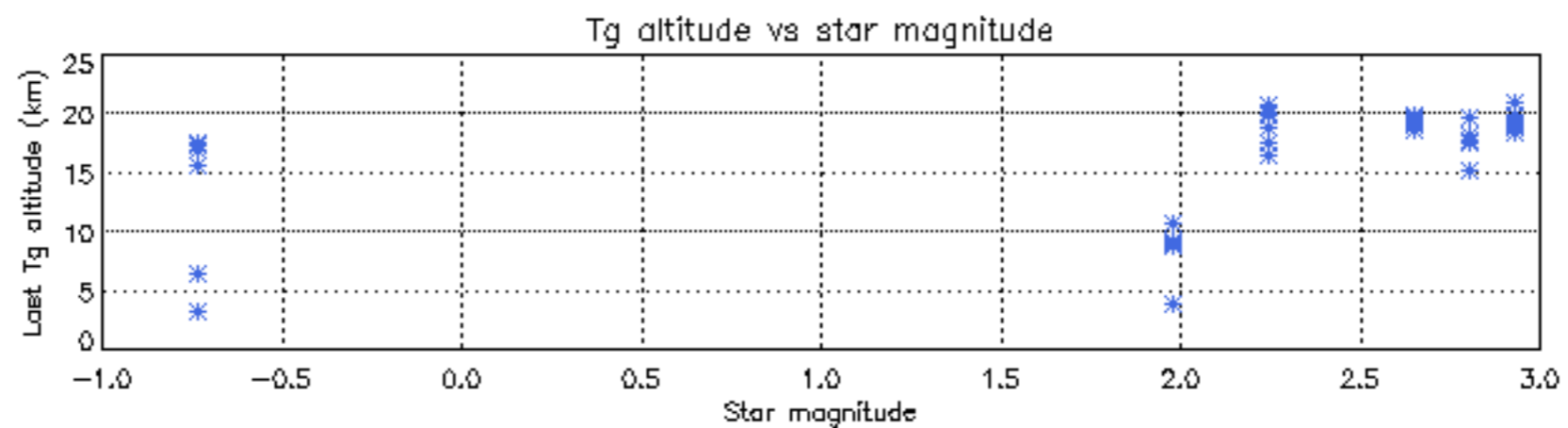
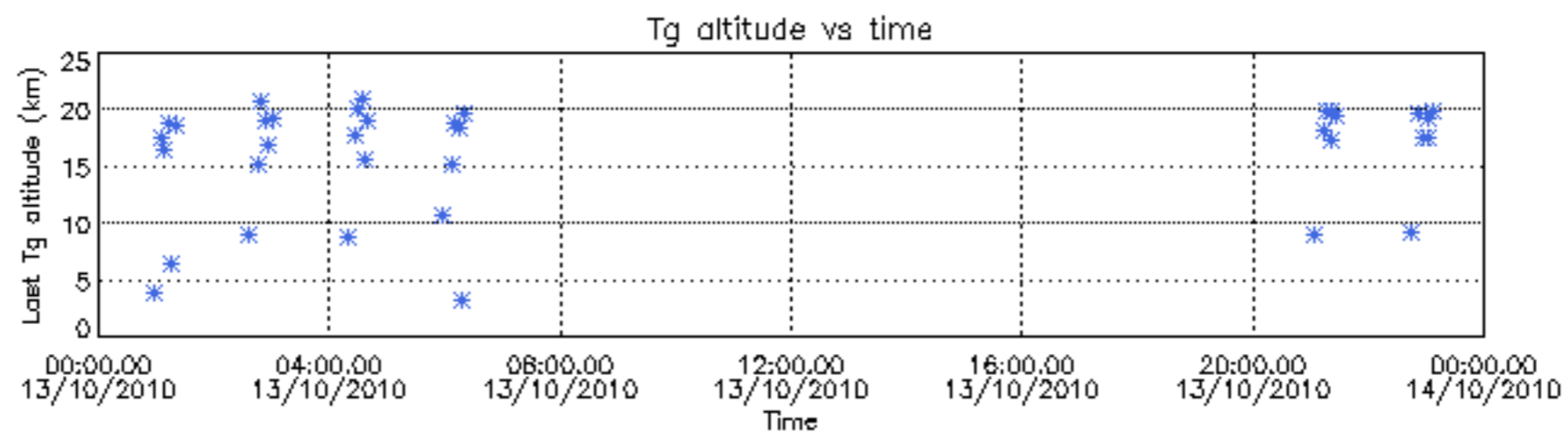
Percentage of star falling outside central band per profile



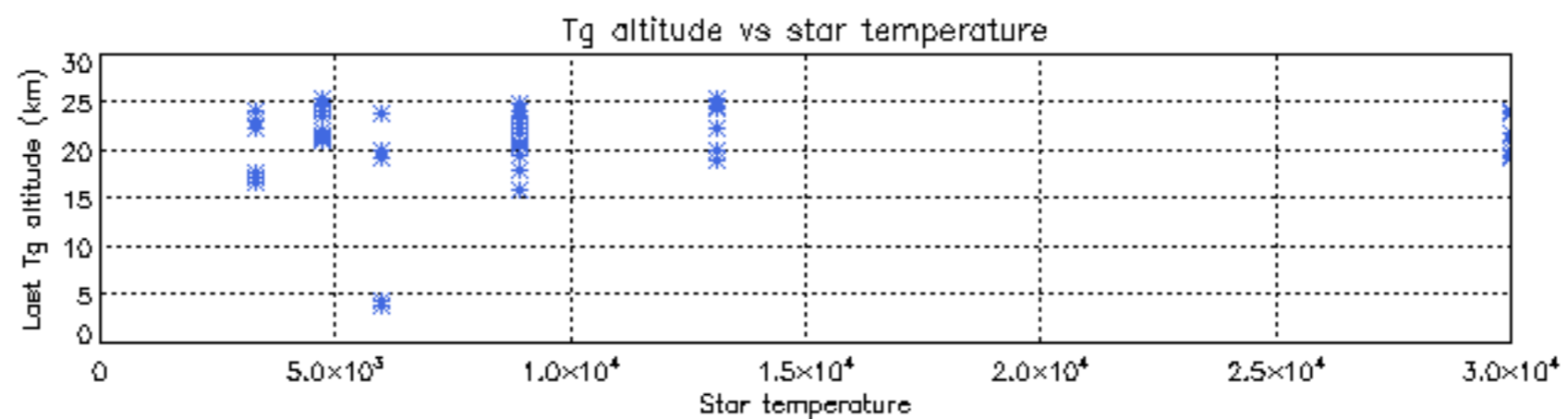
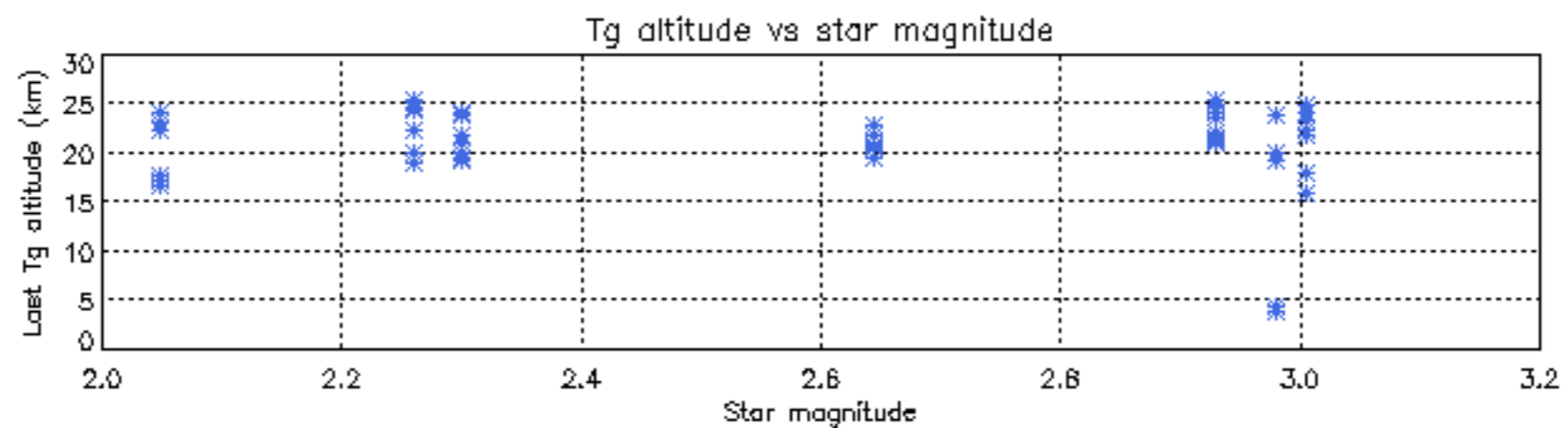
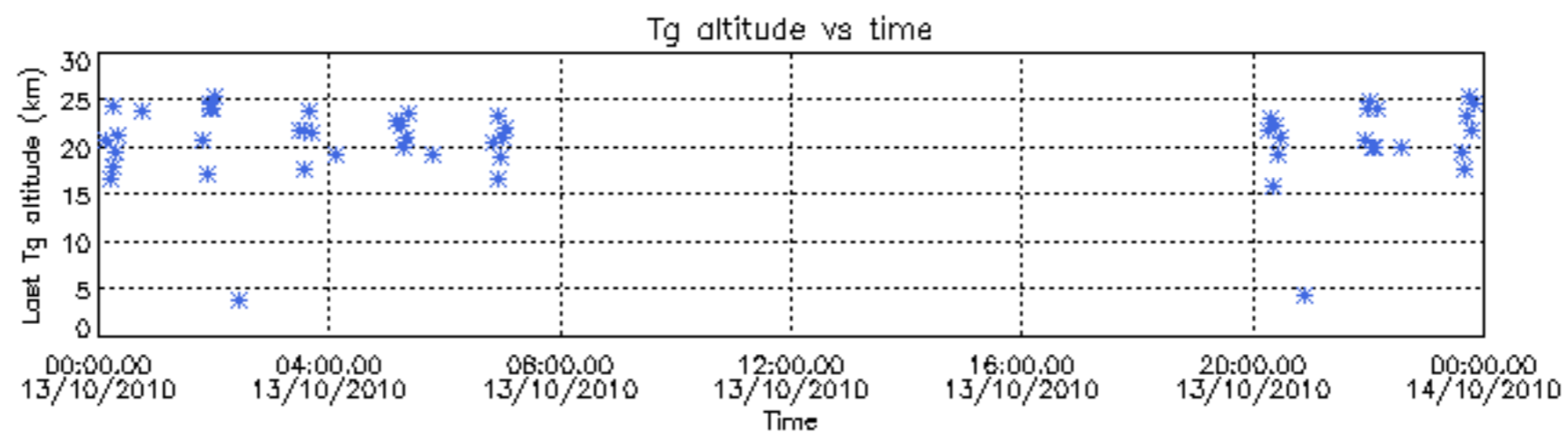
Percentage of saturation errors per profile

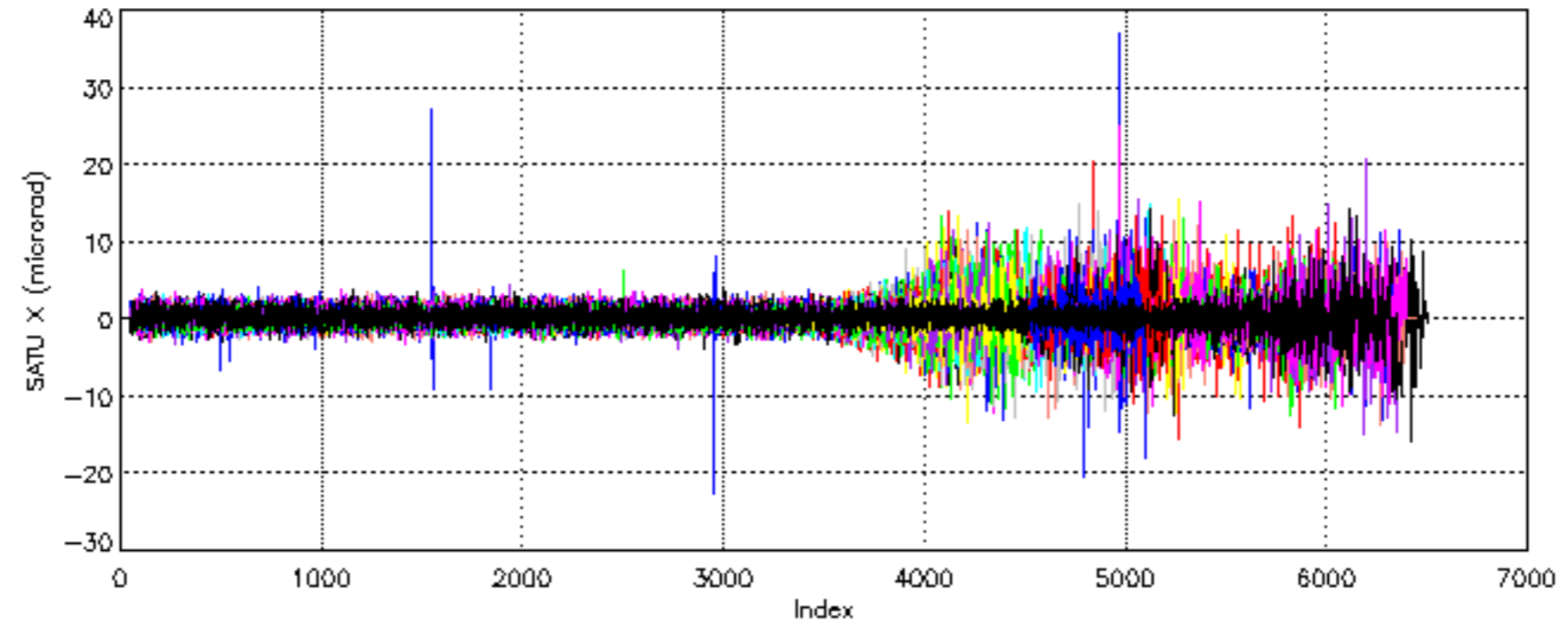


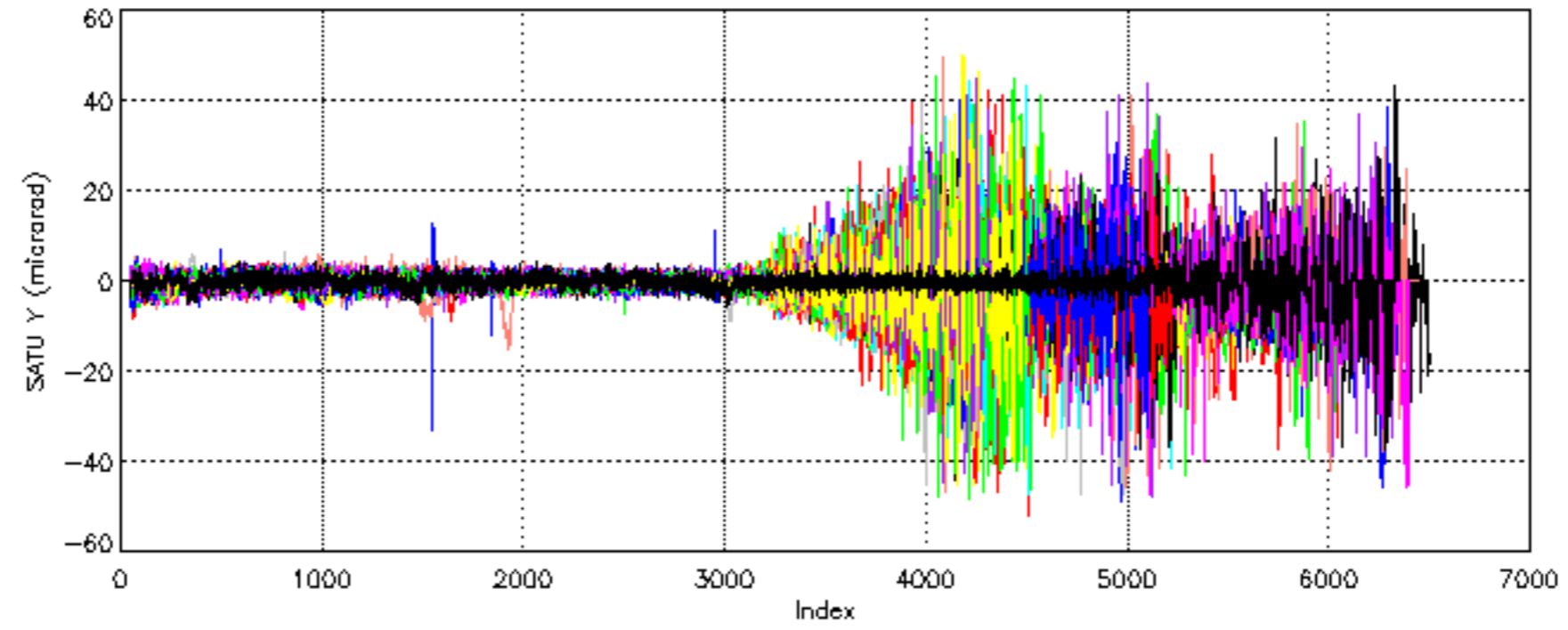
Tangent altitude at which the star is lost

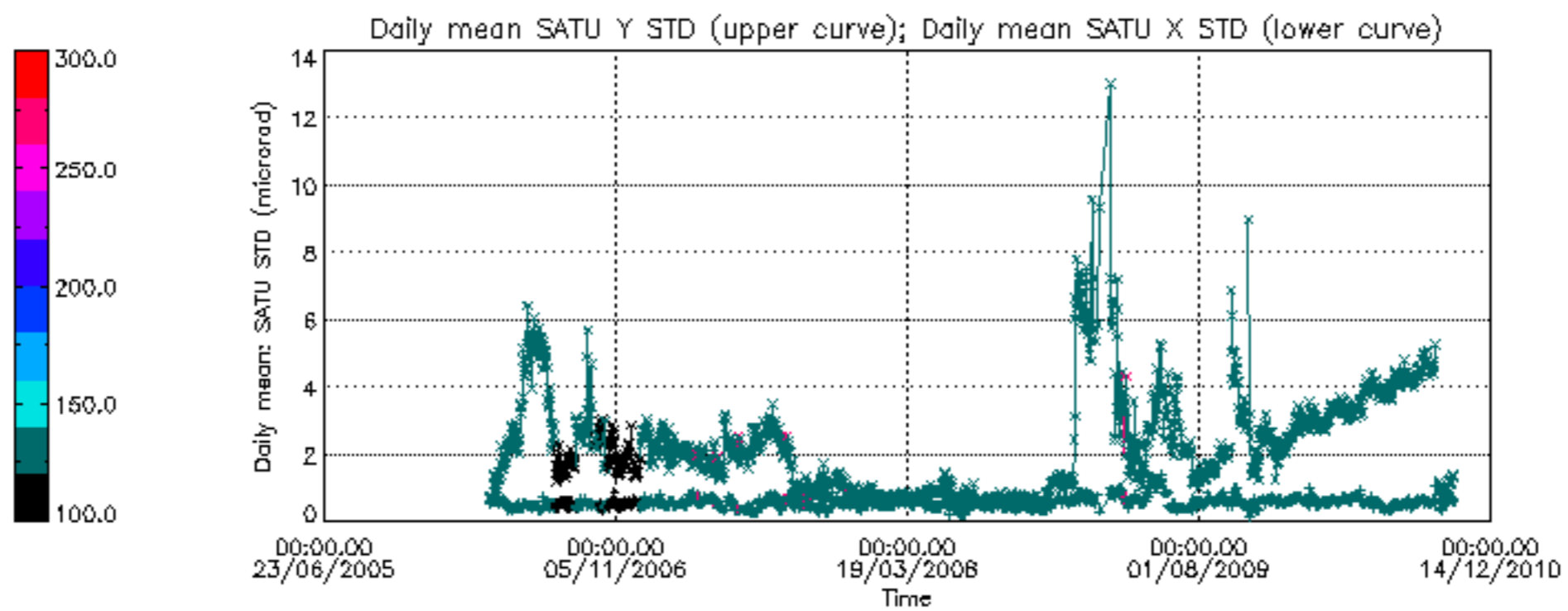


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20101001_003829_000051292093_00245_44888_0965.N1

1; -452.2; 01-OCT-2010 00:38:29; Dark ; 46.0; 132; 15Rho Pup ; 2.80; 6900;occ; 92; 0;44888
 2; -204.7; 01-OCT-2010 00:42:36; Dark ; 54.0; 37; 25Del CMA ; 1.83; 5900;occ; 108; 0;44888
 3; -44.1; 01-OCT-2010 00:45:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44888
 4; 168.4; 01-OCT-2010 00:48:49; Dark ; 53.5; 2; Alp Car ;-0.74; 7000;occ; 107; 0;44889
 5; 300.4; 01-OCT-2010 00:51:01; Dark ; 57.0; 108; Alp Col ; 2.65; 15200;occ; 114; 0;44889
 6; 912.7; 01-OCT-2010 01:01:14; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;44889
 7; 1556.6; 01-OCT-2010 01:11:57; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 0;44889
 8; 2185.8; 01-OCT-2010 01:22:27; Bright; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;44889
 9; 2435.7; 01-OCT-2010 01:26:37; Bright; 40.0; 58; 21Alp And ; 2.07; 11000;occ; 80; 0;44889
 10; 2662.3; 01-OCT-2010 01:30:23; Bright; 46.0; 53; 43Bet And ; 2.05; 3300;occ; 92; 0;44889
 11; 2951.5; 01-OCT-2010 01:35:12; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;44889
 12; 3032.9; 01-OCT-2010 01:36:34; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;44889
 13; 4512.1; 01-OCT-2010 02:01:13; Bright; 39.0; 24; 66Alp Gem ; 1.58; 10200;occ; 78; 0;44889
 14; 4600.3; 01-OCT-2010 02:02:41; Bright; 76.5; 17; 78Bet Gem ; 1.16; 4500;occ; 153; 0;44889

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20101001_021202_000039472093_00246_44889_0966.N1

1; -875.0; 01-OCT-2010 02:12:02; Dark ; 38.0; 8; 10Alp Cmi ; 0.40; 6500;occ; 76; 0;44889
 2; -451.6; 01-OCT-2010 02:19:05; Dark ; 48.5; 132; 15Rho Pup ; 2.80; 6900;occ; 97; 0;44889
 3; -203.5; 01-OCT-2010 02:23:13; Dark ; 54.0; 37; 25Del CMA ; 1.83; 5900;occ; 108; 0;44889
 4; -43.4; 01-OCT-2010 02:25:53; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44889
 5; 169.1; 01-OCT-2010 02:29:26; Dark ; 45.5; 2; Alp Car ;-0.74; 7000;occ; 91; 0;44890
 6; 302.0; 01-OCT-2010 02:31:39; Dark ; 57.5; 108; Alp Col ; 2.65; 15200;occ; 115; 0;44890
 7; 913.7; 01-OCT-2010 02:41:50; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;44890
 8; 1557.0; 01-OCT-2010 02:52:34; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;44890
 9; 2185.6; 01-OCT-2010 03:03:02; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;44890
 10; 2435.4; 01-OCT-2010 03:07:12; Bright; 39.5; 58; 21Alp And ; 2.07; 11000;occ; 79; 0;44890
 11; 2661.7; 01-OCT-2010 03:10:58; Bright; 48.5; 53; 43Bet And ; 2.05; 3300;occ; 97; 0;44890
 12; 2951.6; 01-OCT-2010 03:15:48; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;44890
 13; 3032.4; 01-OCT-2010 03:17:09; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44890

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20101001_034149_000045962093_00247_44890_0967.N1

1; -1523.7; 01-OCT-2010 03:41:49; Bright; 31.0; 24; 66Alp Gem ; 1.58; 10200;occ; 62; 0;44890
 2; -1435.2; 01-OCT-2010 03:43:18; Bright; 73.0; 17; 78Bet Gem ; 1.16; 4500;occ; 146; 0;44890
 3; -874.0; 01-OCT-2010 03:52:39; Dark ; 30.0; 8; 10Alp Cmi ; 0.40; 6500;occ; 60; 0;44890
 4; -450.8; 01-OCT-2010 03:59:42; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;44890
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 7; 169.8; 01-OCT-2010 04:10:03; Dark ; 44.5; 2; Alp Car ;-0.74; 7000;occ; 89; 0;44891
 8; 303.6; 01-OCT-2010 04:12:16; Dark ; 57.5; 108; Alp Col ; 2.65; 15200;occ; 115; 0;44891
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 7; 170.7; 01-OCT-2010 05:50:39; Dark ; 58.5; 2; Alp Car ;-0.74; 7000;occ; 117; 0;44892
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 13; 2660.4; 01-OCT-2010 06:32:09; Bright; 49.0; 53; 43Bet And ; 2.05; 3300;occ; 98; 0;44892
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3; 2659.8; 01-OCT-2010 08:12:44; Bright; 39.5; 53; 43Bet And ; 2.05; 3300;occ; 102; 0;44893
4; 2950.9; 01-OCT-2010 08:17:36; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;44893
5; 3031.4; 01-OCT-2010 08:18:56; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;44893
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7; 5587.7; 01-OCT-2010 09:01:32; Dark ; 45.0; 132; 15Rho Pup ; 2.80; 6900;occ; 90; 0;44893
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4; 2950.6; 01-OCT-2010 09:58:11; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;44894
5; 3031.0; 01-OCT-2010 09:59:32; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;44894
6; 4601.8; 01-OCT-2010 10:25:42; Bright; 61.0; 17; 78Bet Gem ; 1.16; 4500;occ; 122; 0;44894
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9; 5996.2; 01-OCT-2010 10:48:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44894
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11; 6345.7; 01-OCT-2010 10:54:46; Dark ; 59.0; 108; Alp Col ; 2.65; 15200;occ; 118; 0;44895
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3; 2432.4; 01-OCT-2010 21:33:44; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44901
4; 2654.2; 01-OCT-2010 21:37:26; Bright; 45.0; 53; 43Bet And ; 2.05; 3300;occ; 90; 0;44901
5; 2948.9; 01-OCT-2010 21:42:21; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;44901
6; 3028.2; 01-OCT-2010 21:43:40; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;44901
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3; 93.8; 01-OCT-2010 22:35:22; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;44902
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4; 2950.3; 01-OCT-2010 11:38:47; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;44895
5; 3030.5; 01-OCT-2010 11:40:07; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44895
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11; 6136.4; 02-OCT-2010 13:40:52; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;44910
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13; 6370.0; 02-OCT-2010 13:44:45; Dark ; 58.0; 108; Alp Col ; 2.65; 15200;occ; 116; 0;44910
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5; 2946.4; 02-OCT-2010 14:28:17; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;44911
6; 3024.6; 02-OCT-2010 14:29:36; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44911
7; 4606.5; 02-OCT-2010 14:55:57; Bright; 45.0; 17; 78Bet Gem ; 1.16; 4500;occ; 90; 0;44911
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9; 5860.7; 02-OCT-2010 15:16:52; Dark ; 63.0; 37; 25Del CMA ; 1.83; 5900;occ; 126; 0;44911
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11; 6137.3; 02-OCT-2010 15:21:28; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;44911
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13; 6371.3; 02-OCT-2010 15:25:22; Dark ; 59.0; 108; Alp Col ; 2.65; 15200;occ; 118; 0;44911
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7; 4606.9; 02-OCT-2010 16:36:34; Bright; 37.0; 17; 78Bet Gem ; 1.16; 4500;occ; 74; 0;44912
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3; 2428.9; 02-OCT-2010 17:40:52; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44913

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 9; 2180.1; 03-OCT-2010 01:59:43; Bright; 40.0; 140; 88Gam Peg ; 2.83; 26000;occ; 80; 0;44918
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 11; 2642.9; 03-OCT-2010 02:07:25; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;44918
 12; 2944.8; 03-OCT-2010 02:12:27; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44918
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9; 4829.0; 15-OCT-2010 19:52:48; Bright; 39.5; 22; 32Alp Leo ; 1.36; 15200;occ; 79; 0;45100
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17; 5808.7; 16-OCT-2010 02:51:31; Dark ; 53.5; 132; 15Rho Pup ; 2.80; 6900;occ; 107; 0;45104

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5; 2973.5; 19-OCT-2010 10:32:59; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;45152
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8; 4847.9; 19-OCT-2010 11:04:14; Bright; 42.0; 22; 32Alp Leo ; 1.36; 15200;occ; 84; 0;45152
9; 5310.0; 19-OCT-2010 11:11:56; Dark ; 49.5; 48; 30Alp Hya ; 1.98; 4100;occ; 99; 0;45152
10; 5874.9; 19-OCT-2010 11:21:21; Dark ; 55.5; 132; 15Rho Pup ; 2.80; 6900;occ; 111; 0;45152
11; 6074.4; 19-OCT-2010 11:24:40; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;45152
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13; 6413.6; 19-OCT-2010 11:30:20; Dark ; 54.5; 2; Alp Car ;-0.74; 7000;occ; 109; 0;45152
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 4; 2973.0; 19-OCT-2010 15:34:47; Bright; 39.0; 110; 37Del Cas ; 2.68; 8900;occ; 78; 0;45155
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