

GOMOS Daily Report 01-SEP-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	04SEP2009 04:46:39
Data source version	GOMOS/5.00
Start time of products	01SEP2009 00:01:39
Stop time of products	01SEP2009 23:57:32
Store outputs in DB	Yes
Nb of level 1b prods	99
Nb of prods with errors	0

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

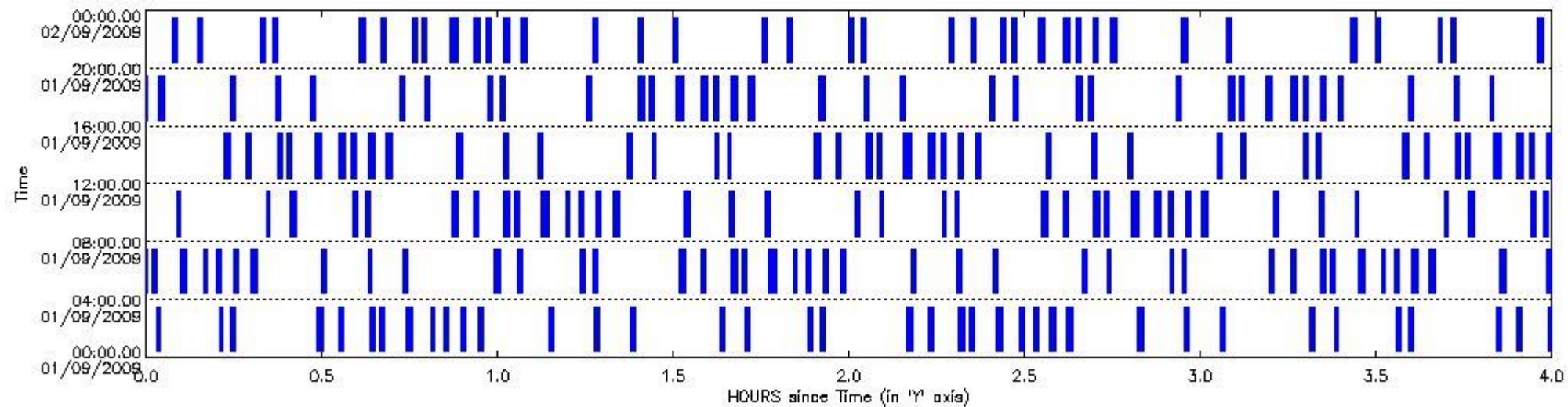
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

No missing products.

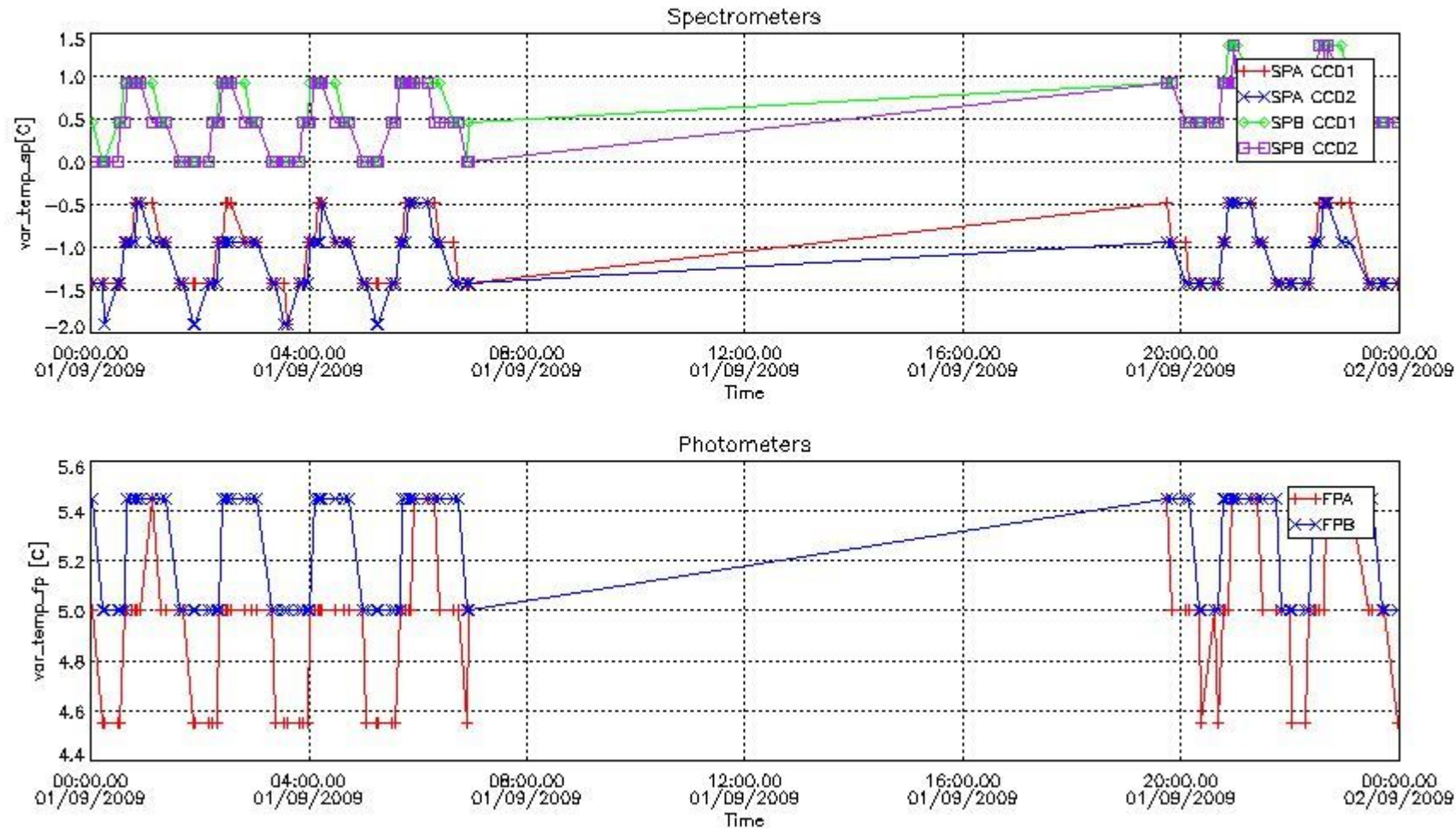
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090901_000139_000000442082_00102_39234_5791.N1	01-SEP-2009 00:01:39	Bright	44.000	164	44Eta Peg	2.9480	5400.0	88	39234	No
2	GOM_TRA_1PNPDE20090901_001221_000000422082_00102_39234_5792.N1	01-SEP-2009 00:12:21	Bright	41.500	74	11Bet Cas	2.2680	6600.0	83	39234	No
3	GOM_TRA_1PNPDE20090901_001429_000000472082_00102_39234_5793.N1	01-SEP-2009 00:14:29	Bright	47.000	76	27Gam Cas	2.3000	30000.	94	39234	No
4	GOM_TRA_1PNPDE20090901_002913_000000642082_00102_39234_5794.N1	01-SEP-2009 00:29:13	Bright	64.000	6	13Alp Aur	0.080000	3400.0	128	39234	No
5	GOM_TRA_1PNPDE20090901_003255_000000482082_00102_39234_5795.N1	01-SEP-2009 00:32:55	Bright	47.500	107	37The Aur	2.6490	11000.	95	39234	No
6	GOM_TRA_1PNPDE20090901_003804_000000552082_00102_39234_5796.N1	01-SEP-2009 00:38:04	Twi_and_stray	54.500	151	13Mu Gem	2.8900	3000.0	109	39234	No
7	GOM_TRA_1PNPDE20090901_003949_000000492082_00102_39234_5797.N1	01-SEP-2009 00:39:49	Twi_and_stray	48.500	44	24Gam Gem	1.9280	11000.	97	39234	No
8	GOM_TRA_1PNPDE20090901_004426_000000662082_00102_39234_5798.N1	01-SEP-2009 00:44:26	Dark	66.000	14	58Alp Ori	0.87000	3000.0	132	39234	No
9	GOM_TRA_1PNPDE20090901_004836_000000422082_00102_39234_5950.N1	01-SEP-2009 00:48:36	Dark	42.000	30	46Eps Ori	1.6940	30000.	84	39234	No
10	GOM_TRA_1PNPDE20090901_005047_000000492082_00102_39234_5951.N1	01-SEP-2009 00:50:47	Dark	48.500	47	2Bet CMa	1.9760	28000.	97	39234	No
11	GOM_TRA_1PNPDE20090901_005339_000000512082_00102_39234_5952.N1	01-SEP-2009 00:53:39	Dark	51.000	101	11Alp Lep	2.5820	7000.0	102	39234	No
12	GOM_TRA_1PNPDE20090901_010840_000000542082_00103_39235_5953.N1	01-SEP-2009 01:08:40	Dark	54.000	157	The1Eri	2.9060	9300.0	108	39235	No

13	GOM_TRA_1PNPDE20090901_011635_000000482082_00103_39235_5954.N1	01-SEP-2009 01:16:35	Straylight	47.500	84	Alp Phe	2.3970	4500.0	95	39235	No
14	GOM_TRA_1PNPDE20090901_012243_000000472082_00103_39235_5955.N1	01-SEP-2009 01:22:43	Straylight	46.500	18	24Alp PsA	1.1660	9700.0	93	39235	No
15	GOM_TRA_1PNPDE20090901_013803_000000482082_00103_39235_5956.N1	01-SEP-2009 01:38:03	Bright	47.500	90	54Alp Peg	2.4870	11000.	95	39235	No
16	GOM_TRA_1PNPDE20090901_014214_000000422082_00103_39235_5957.N1	01-SEP-2009 01:42:14	Bright	41.500	164	44Eta Peg	2.9480	5400.0	83	39235	No
17	GOM_TRA_1PNPDE20090901_015256_000000452082_00103_39235_5958.N1	01-SEP-2009 01:52:56	Bright	44.500	74	11Bet Cas	2.2680	6600.0	89	39235	No
18	GOM_TRA_1PNPDE20090901_015504_000000452082_00103_39235_5959.N1	01-SEP-2009 01:55:04	Bright	45.000	76	27Gam Cas	2.3000	30000.	90	39235	No
19	GOM_TRA_1PNPDE20090901_020949_000000602082_00103_39235_5960.N1	01-SEP-2009 02:09:49	Bright	60.000	6	13Alp Aur	0.080000	3400.0	120	39235	No
20	GOM_TRA_1PNPDE20090901_021331_000000482082_00103_39235_5961.N1	01-SEP-2009 02:13:31	Bright	48.000	107	37The Aur	2.6490	11000.	96	39235	No
21	GOM_TRA_1PNPDE20090901_021840_000000642082_00103_39235_5962.N1	01-SEP-2009 02:18:40	Twi_and_stray	64.000	151	13Mu Gem	2.8900	3000.0	128	39235	No
22	GOM_TRA_1PNPDE20090901_022026_000000472082_00103_39235_5963.N1	01-SEP-2009 02:20:26	Twi_and_stray	47.000	44	24Gam Gem	1.9280	11000.	94	39235	No
23	GOM_TRA_1PNPDE20090901_022502_000000672082_00103_39235_6092.N1	01-SEP-2009 02:25:02	Dark	66.500	14	58Alp Ori	0.87000	3000.0	133	39235	No
24	GOM_TRA_1PNPDE20090901_022913_000000422082_00103_39235_6093.N1	01-SEP-2009 02:29:13	Dark	42.000	30	46Eps Ori	1.6940	30000.	84	39235	No
25	GOM_TRA_1PNPDE20090901_023124_000000502082_00103_39235_6094.N1	01-SEP-2009 02:31:24	Dark	49.500	47	2Bet CMa	1.9760	28000.	99	39235	No
26	GOM_TRA_1PNPDE20090901_023417_000000532082_00103_39235_6095.N1	01-SEP-2009 02:34:17	Dark	52.500	101	11Alp Lep	2.5820	7000.0	105	39235	No
27	GOM_TRA_1PNPDE20090901_024918_000000562082_00104_39236_6096.N1	01-SEP-2009 02:49:18	Dark	56.000	157	The1Eri	2.9060	9300.0	112	39236	No
28	GOM_TRA_1PNPDE20090901_025712_000000482082_00104_39236_6097.N1	01-SEP-2009 02:57:12	Straylight	47.500	84	Alp Phe	2.3970	4500.0	95	39236	No
29	GOM_TRA_1PNPDE20090901_030319_000000462082_00104_39236_6098.N1	01-SEP-2009 03:03:19	Straylight	46.000	18	24Alp PsA	1.1660	9700.0	92	39236	No
30	GOM_TRA_1PNPDE20090901_031838_000000472082_00104_39236_6099.N1	01-SEP-2009 03:18:38	Bright	47.000	90	54Alp Peg	2.4870	11000.	94	39236	No
31	GOM_TRA_1PNPDE20090901_032250_000000432082_00104_39236_6100.N1	01-SEP-2009 03:22:50	Bright	43.000	164	44Eta Peg	2.9480	5400.0	86	39236	No
32	GOM_TRA_1PNPDE20090901_033331_000000402082_00104_39236_6101.N1	01-SEP-2009 03:33:31	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	39236	No
33	GOM_TRA_1PNPDE20090901_033539_000000462082_00104_39236_6102.N1	01-SEP-2009 03:35:39	Bright	46.000	76	27Gam Cas	2.3000	30000.	92	39236	No
34	GOM_TRA_1PNPDE20090901_035024_000000592082_00104_39236_6260.N1	01-SEP-2009 03:50:24	Bright	58.500	6	13Alp Aur	0.080000	3400.0	117	39236	No
35	GOM_TRA_1PNPDE20090901_035407_000000482082_00104_39236_6261.N1	01-SEP-2009 03:54:07	Bright	47.500	107	37The Aur	2.6490	11000.	95	39236	No
36	GOM_TRA_1PNPDE20090901_035916_000000542082_00104_39236_6262.N1	01-SEP-2009 03:59:16	Twi_and_stray	53.500	151	13Mu Gem	2.8900	3000.0	107	39236	No
37	GOM_TRA_1PNPDE20090901_040102_000000492082_00104_39236_6263.N1	01-SEP-2009 04:01:02	Twi_and_stray	48.500	44	24Gam Gem	1.9280	11000.	97	39236	No
38	GOM_TRA_1PNPDE20090901_040539_000000742082_00104_39236_6264.N1	01-SEP-2009 04:05:39	Dark	74.000	14	58Alp Ori	0.87000	3000.0	148	39236	No
39	GOM_TRA_1PNPDE20090901_040950_000000352082_00104_39236_6265.N1	01-SEP-2009 04:09:50	Dark	35.000	30	46Eps Ori	1.6940	30000.	70	39236	No
40	GOM_TRA_1PNPDE20090901_041201_000000492082_00104_39236_6266.N1	01-SEP-2009 04:12:01	Dark	49.000	47	2Bet CMa	1.9760	28000.	98	39236	No
41	GOM_TRA_1PNPDE20090901_041453_000000532082_00104_39236_6267.N1	01-SEP-2009 04:14:53	Dark	53.000	101	11Alp Lep	2.5820	7000.0	106	39236	No
42	GOM_TRA_1PNPDE20090901_042955_000000542082_00105_39237_6268.N1	01-SEP-2009 04:29:55	Dark	54.000	157	The1Eri	2.9060	9300.0	108	39237	No
43	GOM_TRA_1PNPDE20090901_043748_000000482082_00105_39237_6269.N1	01-SEP-2009 04:37:48	Straylight	47.500	84	Alp Phe	2.3970	4500.0	95	39237	No
44	GOM_TRA_1PNPDE20090901_044355_000000442082_00105_39237_6270.N1	01-SEP-2009 04:43:55	Straylight	43.500	18	24Alp PsA	1.1660	9700.0	87	39237	No
45	GOM_TRA_1PNPDE20090901_045914_000000702082_00105_39237_6271.N1	01-SEP-2009 04:59:14	Bright	70.000	90	54Alp Peg	2.4870	11000.	140	39237	No
46	GOM_TRA_1PNPDE20090901_050325_000000442082_00105_39237_6272.N1	01-SEP-2009 05:03:25	Bright	43.500	164	44Eta Peg	2.9480	5400.0	87	39237	No
47	GOM_TRA_1PNPDE20090901_051407_000000452082_00105_39237_6273.N1	01-SEP-2009 05:14:07	Bright	44.500	74	11Bet Cas	2.2680	6600.0	89	39237	No
48	GOM_TRA_1PNPDE20090901_051614_000000462082_00105_39237_6274.N1	01-SEP-2009 05:16:14	Bright	46.000	76	27Gam Cas	2.3000	30000.	92	39237	No
49	GOM_TRA_1PNPDE20090901_053100_000000572082_00105_39237_6429.N1	01-SEP-2009 05:31:00	Bright	57.000	6	13Alp Aur	0.080000	3400.0	114	39237	No
50	GOM_TRA_1PNPDE20090901_053443_000000472082_00105_39237_6430.N1	01-SEP-2009 05:34:43	Bright	46.500	107	37The Aur	2.6490	11000.	93	39237	No
51	GOM_TRA_1PNPDE20090901_053953_000000582082_00105_39237_6431.N1	01-SEP-2009 05:39:53	Twi_and_stray	58.000	151	13Mu Gem	2.8900	3000.0	116	39237	No
52	GOM_TRA_1PNPDE20090901_054138_000000502082_00105_39237_6432.N1	01-SEP-2009 05:41:38	Twi_and_stray	49.500	44	24Gam Gem	1.9280	11000.	99	39237	No
53	GOM_TRA_1PNPDE20090901_054616_000000722082_00105_39237_6433.N1	01-SEP-2009 05:46:16	Dark	71.500	14	58Alp Ori	0.87000	3000.0	143	39237	No
54	GOM_TRA_1PNPDE20090901_055027_000000352082_00105_39237_6434.N1	01-SEP-2009 05:50:27	Dark	35.000	30	46Eps Ori	1.6940	30000.	70	39237	No
55	GOM_TRA_1PNPDE20090901_055238_000000482082_00105_39237_6435.N1	01-SEP-2009 05:52:38	Dark	48.000	47	2Bet CMa	1.9760	28000.	96	39237	No
56	GOM_TRA_1PNPDE20090901_055531_000000592082_00105_39237_6436.N1	01-SEP-2009 05:55:31	Dark	58.500	101	11Alp Lep	2.5820	7000.0	117	39237	No
57	GOM_TRA_1PNPDE20090901_061032_000000552082_00106_39238_6437.N1	01-SEP-2009 06:10:32	Dark	55.000	157	The1Eri	2.9060	9300.0	110	39238	No
58	GOM_TRA_1PNPDE20090901_061825_000000482082_00106_39238_6438.N1	01-SEP-2009 06:18:25	Straylight	48.000	84	Alp Phe	2.3970	4500.0	96	39238	No
59	GOM_TRA_1PNPDE20090901_062432_000000472082_00106_39238_6439.N1	01-SEP-2009 06:24:32	Straylight	47.000	18	24Alp PsA	1.1660	9700.0	94	39238	No
60	GOM_TRA_1PNPDE20090901_063949_000000472082_00106_39238_6440.N1	01-SEP-2009 06:39:49	Bright	46.500	90	54Alp Peg	2.4870	11000.	93	39238	No
61	GOM_TRA_1PNPDE20090901_064400_000000422082_00106_39238_6441.N1	01-SEP-2009 06:44:00	Bright	41.500	164	44Eta Peg	2.9480	5400.0	83	39238	No
62	GOM_TRA_1PNPDE20090901_065442_000000442082_00106_39238_6442.N1	01-SEP-2009 06:54:42	Bright	44.000	74	11Bet Cas	2.2680	6600.0	88	39238	No
63	GOM_TRA_1PNPDE20090901_065650_000000462082_00106_39238_6443.N1	01-SEP-2009 06:56:50	Bright	45.500	76	27Gam Cas	2.3000	30000.	91	39238	No
64	GOM_TRA_1PNPDE20090901_194317_000000562082_00114_39246_6865.N1	01-SEP-2009 19:43:17	Straylight	56.000	84	Alp Phe	2.3970	4500.0	112	39246	No
65	GOM_TRA_1PNPDE20090901_194921_000000442082_00114_39246_6866.N1	01-SEP-2009 19:49:21	Straylight	44.000	18	24Alp PsA	1.1660	9700.0	88	39246	No
66	GOM_TRA_1PNPDE20090901_200432_000000462082_00114_39246_6867.N1	01-SEP-2009 20:04:32	Bright	46.000	90	54Alp Peg	2.4870	11000.	92	39246	No
67	GOM_TRA_1PNPDE20090901_200844_000000412082_00114_39246_6868.N1	01-SEP-2009 20:08:44	Bright	40.500	164	44Eta Peg	2.9480	5400.0	81	39246	No
68	GOM_TRA_1PNPDE20090901_201924_000000452082_00114_39246_6869.N1	01-SEP-2009 20:19:24	Bright	45.000	74	11Bet Cas	2.2680	6600.0	90	39246	No
69	GOM_TRA_1PNPDE20090901_202132_000000472082_00114_39246_6870.N1	01-SEP-2009 20:21:32	Bright	46.500	76	27Gam Cas	2.3000	30000.	93	39246	No
70	GOM_TRA_1PNPDE20090901_203621_000000632082_00114_39246_6871.N1	01-SEP-2009 20:36:21	Bright	62.500	6	13Alp Aur	0.080000	3400.0	125	39246	No
71	GOM_TRA_1PNPDE20090901_204007_000000512082_00114_39246_6872.N1	01-SEP-2009 20:40:07	Bright	50.500	107	37The Aur	2.6490	11000.	101	39246	No

72	GOM_TRA_1PNPDE20090901_204519_000000582082_00114_39246_6873.N1	01-SEP-2009 20:45:19	Twilight	57.500	151	13Mu Gem	2.8900	3000.0	115	39246	No
73	GOM_TRA_1PNPDE20090901_204705_000000472082_00114_39246_6874.N1	01-SEP-2009 20:47:05	Twilight	47.000	44	24Gam Gem	1.9280	11000.	94	39246	No
74	GOM_TRA_1PNPDE20090901_205147_000000782082_00114_39246_7009.N1	01-SEP-2009 20:51:47	Dark	77.500	14	58Alp Ori	0.87000	3000.0	155	39246	No
75	GOM_TRA_1PNPDE20090901_205556_000000612082_00114_39246_7010.N1	01-SEP-2009 20:55:56	Dark	61.000	33	50Zet Ori	1.7660	30000.	122	39246	No
76	GOM_TRA_1PNPDE20090901_205808_000000482082_00114_39246_7011.N1	01-SEP-2009 20:58:08	Dark	48.000	47	2Bet CMa	1.9760	28000.	96	39246	No
77	GOM_TRA_1PNPDE20090901_210105_000000552082_00114_39246_7012.N1	01-SEP-2009 21:01:05	Dark	54.500	101	11Alp Lep	2.5820	7000.0	109	39246	No
78	GOM_TRA_1PNPDE20090901_211606_000000572082_00115_39247_7013.N1	01-SEP-2009 21:16:06	Dark	57.000	157	The1Eri	2.9060	9300.0	114	39247	No
79	GOM_TRA_1PNPDE20090901_212353_000000492082_00115_39247_7014.N1	01-SEP-2009 21:23:53	Straylight	49.000	84	Alp Phe	2.3970	4500.0	98	39247	No
80	GOM_TRA_1PNPDE20090901_212957_000000442082_00115_39247_7015.N1	01-SEP-2009 21:29:57	Straylight	43.500	18	24Alp PsA	1.1660	9700.0	87	39247	No
81	GOM_TRA_1PNPDE20090901_214508_000000492082_00115_39247_7016.N1	01-SEP-2009 21:45:08	Bright	48.500	90	54Alp Peg	2.4870	11000.	97	39247	No
82	GOM_TRA_1PNPDE20090901_214919_000000632082_00115_39247_7017.N1	01-SEP-2009 21:49:19	Bright	63.000	164	44Eta Peg	2.9480	5400.0	126	39247	No
83	GOM_TRA_1PNPDE20090901_220000_000000452082_00115_39247_7018.N1	01-SEP-2009 22:00:00	Bright	44.500	74	11Bet Cas	2.2680	6600.0	89	39247	No
84	GOM_TRA_1PNPDE20090901_220207_000000462082_00115_39247_7019.N1	01-SEP-2009 22:02:07	Bright	46.000	76	27Gam Cas	2.3000	30000.	92	39247	No
85	GOM_TRA_1PNPDE20090901_221657_000000612082_00115_39247_7020.N1	01-SEP-2009 22:16:57	Bright	60.500	6	13Alp Aur	0.080000	3400.0	121	39247	No
86	GOM_TRA_1PNPDE20090901_222043_000000482082_00115_39247_7021.N1	01-SEP-2009 22:20:43	Bright	47.500	107	37The Aur	2.6490	11000.	95	39247	No
87	GOM_TRA_1PNPDE20090901_222555_000000502082_00115_39247_7022.N1	01-SEP-2009 22:25:55	Twilight	49.500	151	13Mu Gem	2.8900	3000.0	99	39247	No
88	GOM_TRA_1PNPDE20090901_222742_000000532082_00115_39247_7023.N1	01-SEP-2009 22:27:42	Twilight	52.500	44	24Gam Gem	1.9280	11000.	105	39247	No
89	GOM_TRA_1PNPDE20090901_223224_000000662082_00115_39247_7024.N1	01-SEP-2009 22:32:24	Dark	65.500	14	58Alp Ori	0.87000	3000.0	131	39247	No
90	GOM_TRA_1PNPDE20090901_223633_000000632082_00115_39247_7155.N1	01-SEP-2009 22:36:33	Dark	62.500	33	50Zet Ori	1.7660	30000.	125	39247	No
91	GOM_TRA_1PNPDE20090901_223844_000000502082_00115_39247_7156.N1	01-SEP-2009 22:38:44	Dark	49.500	47	2Bet CMa	1.9760	28000.	99	39247	No
92	GOM_TRA_1PNPDE20090901_224142_000000552082_00115_39247_7157.N1	01-SEP-2009 22:41:42	Dark	54.500	101	11Alp Lep	2.5820	7000.0	109	39247	No
93	GOM_TRA_1PNPDE20090901_225643_000000562082_00116_39248_7158.N1	01-SEP-2009 22:56:43	Dark	55.500	157	The1Eri	2.9060	9300.0	111	39248	No
94	GOM_TRA_1PNPDE20090901_230430_000000502082_00116_39248_7159.N1	01-SEP-2009 23:04:30	Straylight	50.000	84	Alp Phe	2.3970	4500.0	100	39248	No
95	GOM_TRA_1PNPDE20090901_232543_000000602082_00116_39248_7160.N1	01-SEP-2009 23:25:43	Bright	59.500	90	54Alp Peg	2.4870	11000.	119	39248	No
96	GOM_TRA_1PNPDE20090901_232955_000000442082_00116_39248_7161.N1	01-SEP-2009 23:29:55	Bright	43.500	164	44Eta Peg	2.9480	5400.0	87	39248	No
97	GOM_TRA_1PNPDE20090901_234035_000000402082_00116_39248_7162.N1	01-SEP-2009 23:40:35	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	39248	No
98	GOM_TRA_1PNPDE20090901_234242_000000472082_00116_39248_7163.N1	01-SEP-2009 23:42:42	Bright	47.000	76	27Gam Cas	2.3000	30000.	94	39248	No
99	GOM_TRA_1PNPDE20090901_235732_000000642082_00116_39248_7164.N1	01-SEP-2009 23:57:32	Bright	63.500	6	13Alp Aur	0.080000	3400.0	127	39248	No

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



4. Overview of dark signal processing per product

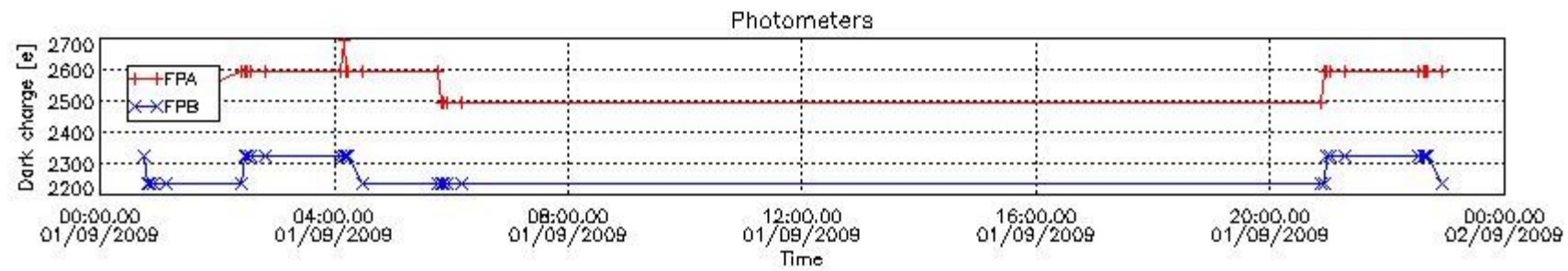
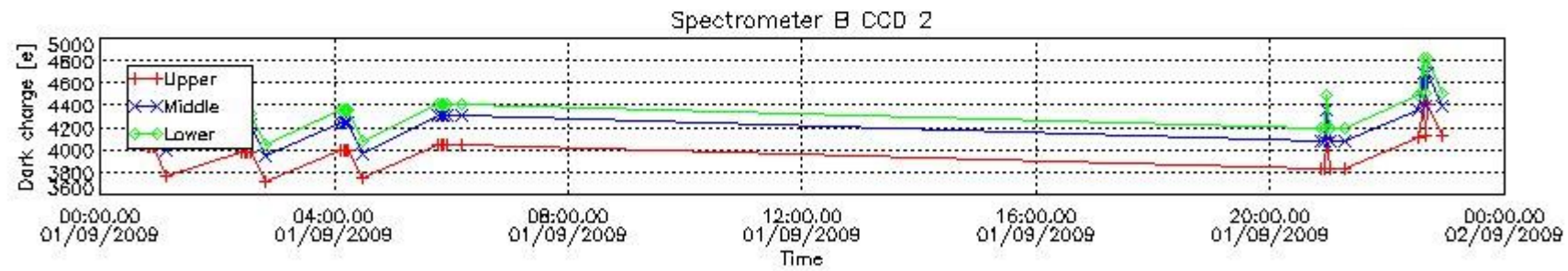
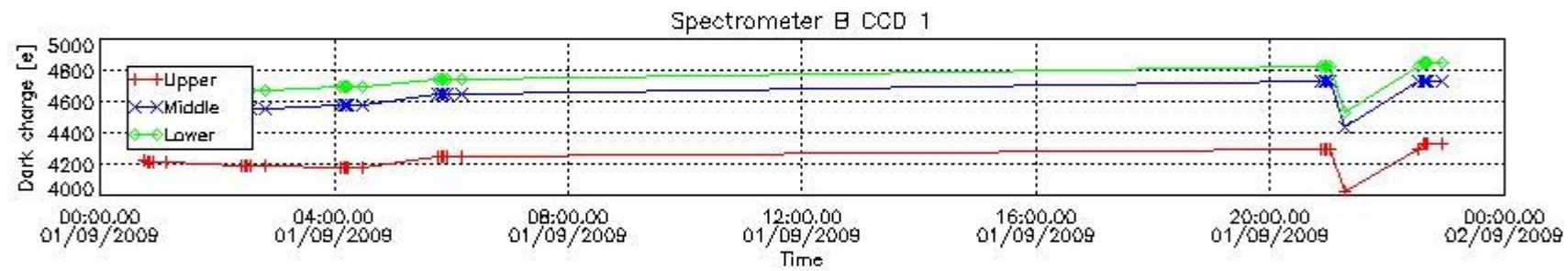
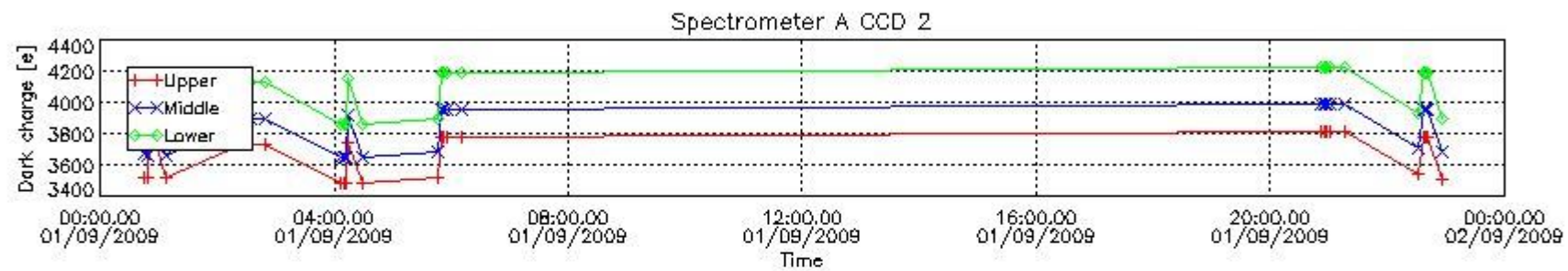
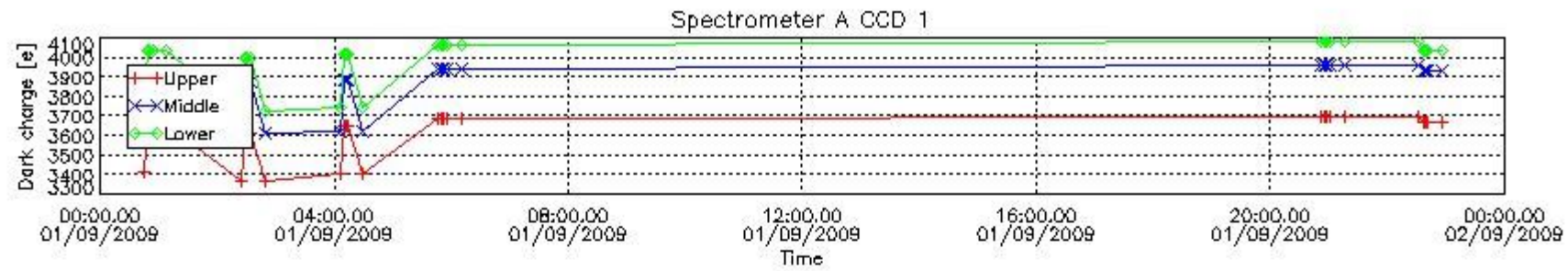
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090901_194317_000000562082_00114_39246_6865.N1	DC map used
GOM_TRA_1PNPDE20090901_194921_000000442082_00114_39246_6866.N1	DC map used
GOM_TRA_1PNPDE20090901_200432_000000462082_00114_39246_6867.N1	DC map used
GOM_TRA_1PNPDE20090901_200844_000000412082_00114_39246_6868.N1	DC map used
GOM_TRA_1PNPDE20090901_201924_000000452082_00114_39246_6869.N1	DC map used
GOM_TRA_1PNPDE20090901_202132_000000472082_00114_39246_6870.N1	DC map used
GOM_TRA_1PNPDE20090901_203621_000000632082_00114_39246_6871.N1	DC map used
GOM_TRA_1PNPDE20090901_204007_000000512082_00114_39246_6872.N1	DC map used
GOM_TRA_1PNPDE20090901_204519_000000582082_00114_39246_6873.N1	DC map used
GOM_TRA_1PNPDE20090901_204705_000000472082_00114_39246_6874.N1	DC map used

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



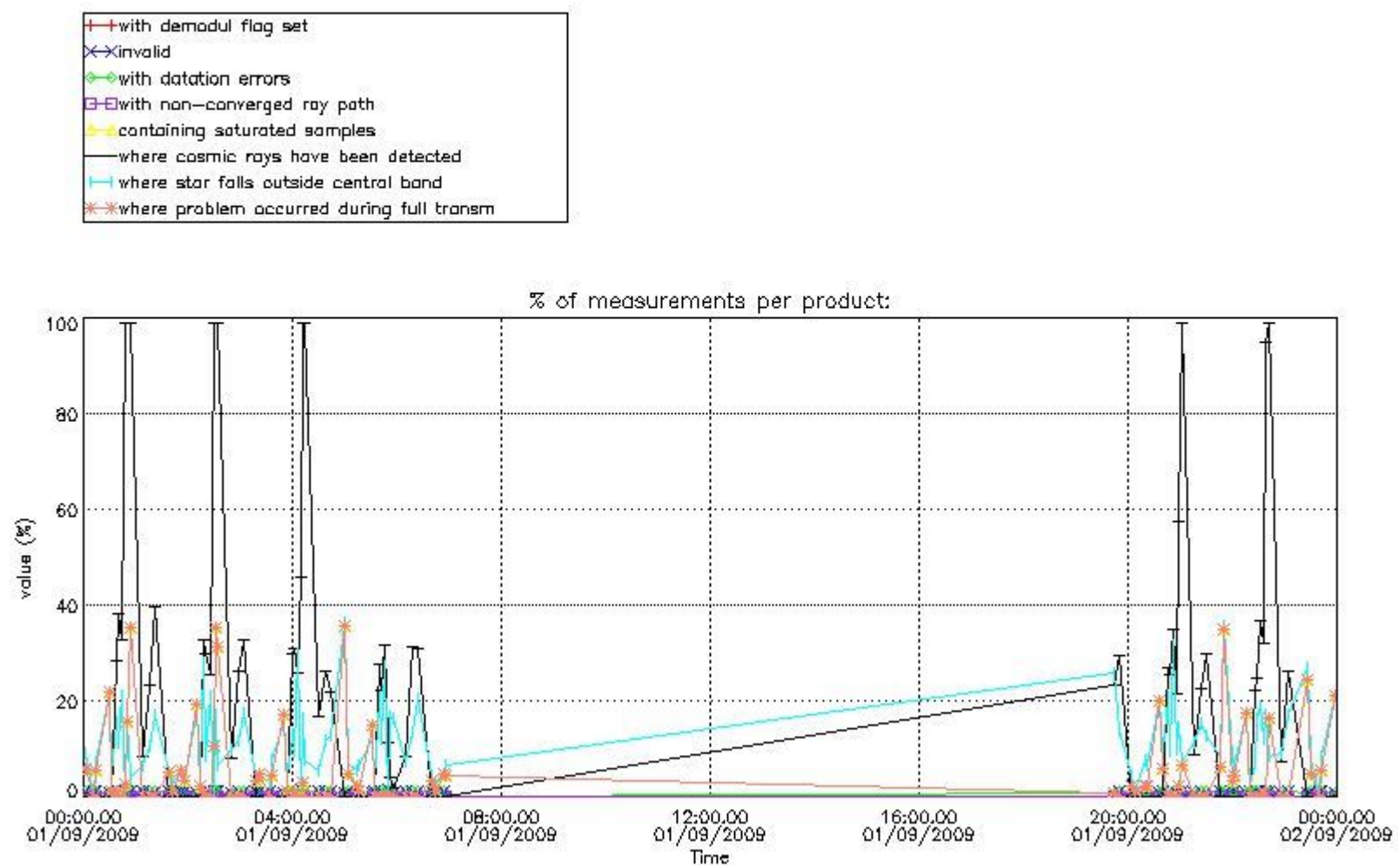
5. Demodulation flag and quality information monitoring

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.

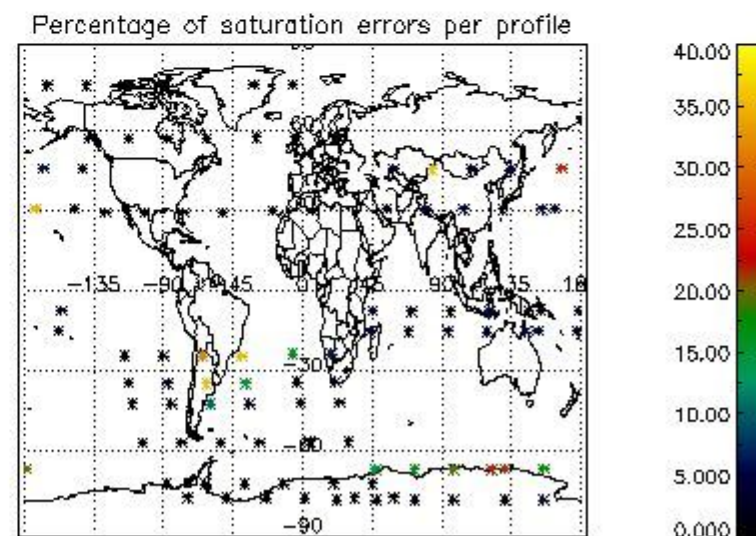
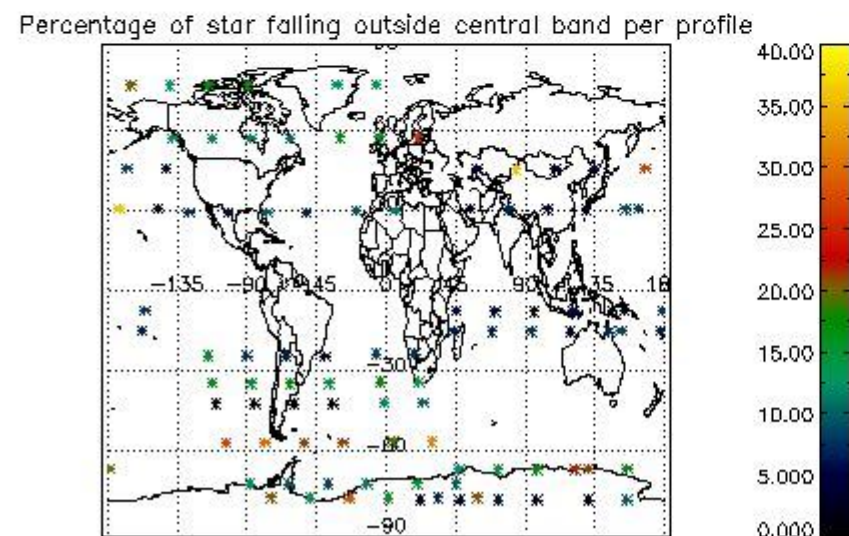
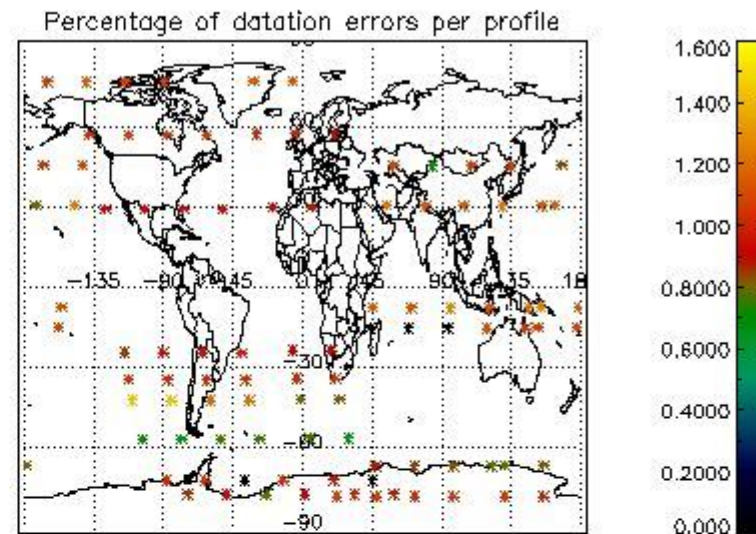
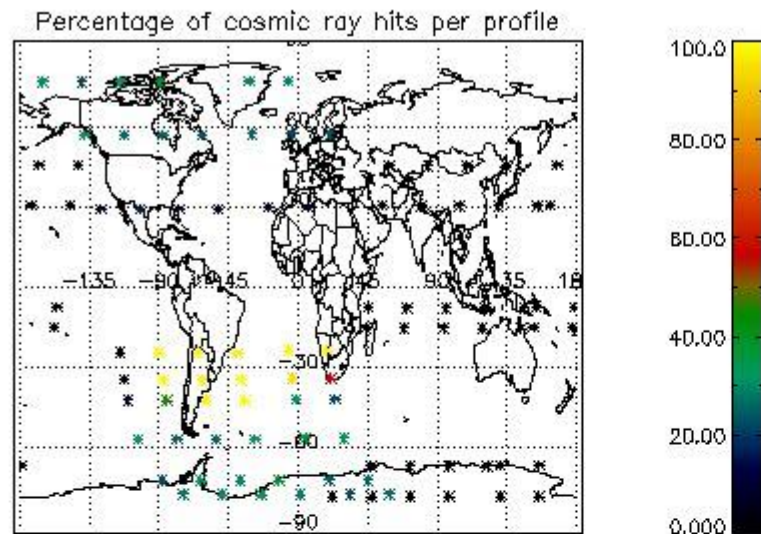
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	40.4040 %
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)



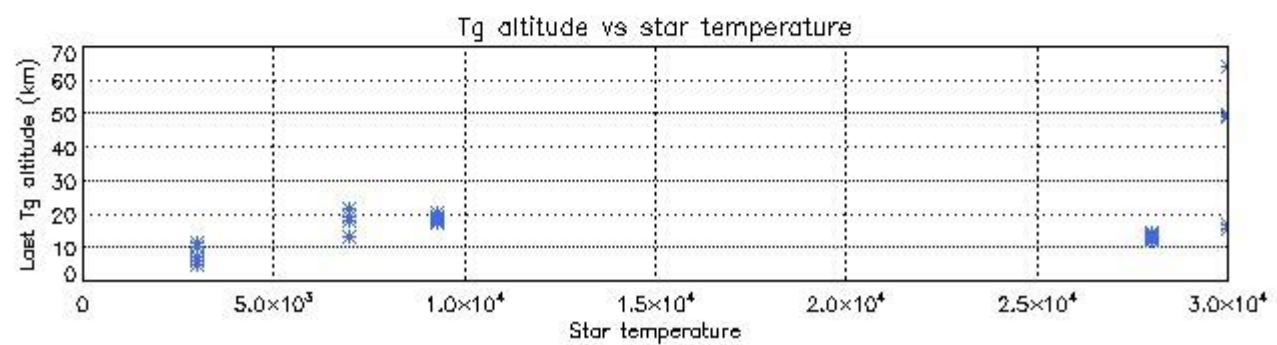
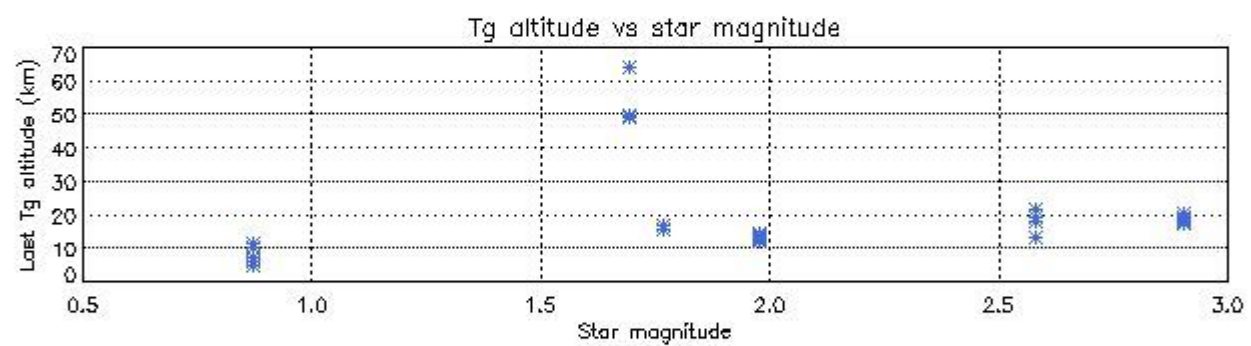
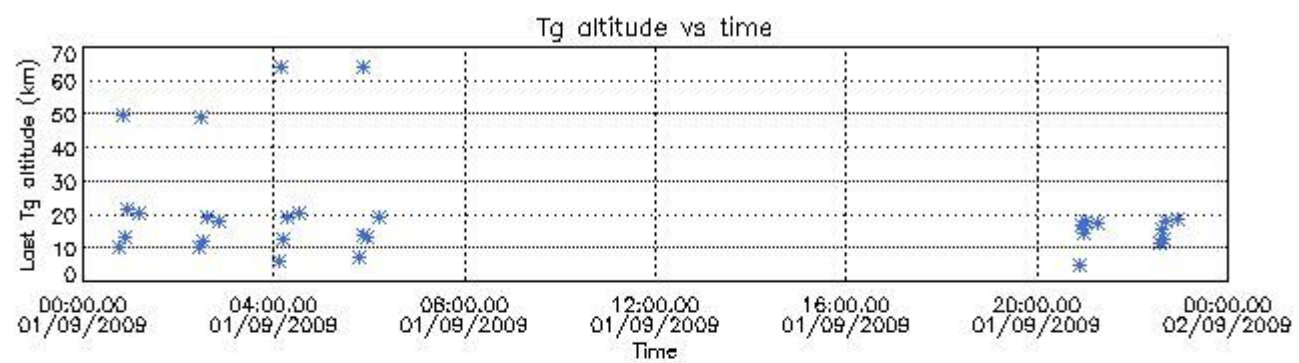
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	20.379	19.084	NaN
St. deviation:	15.310	5.7892	NaN
Maximum:	63.990	30.312	NaN
Minimum:	4.5862	3.4718	NaN
Number of data:	30.000	44.000	NaN

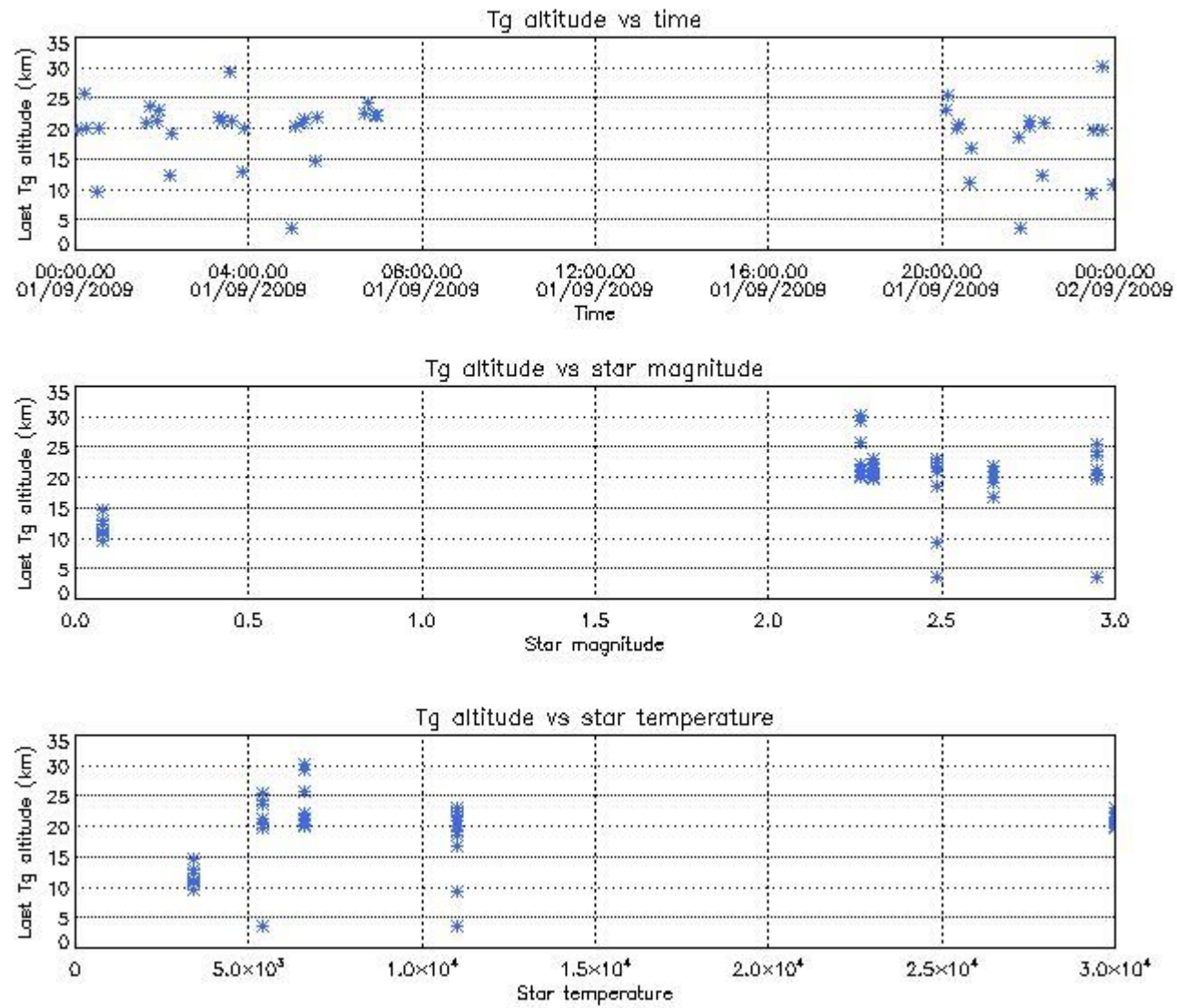
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

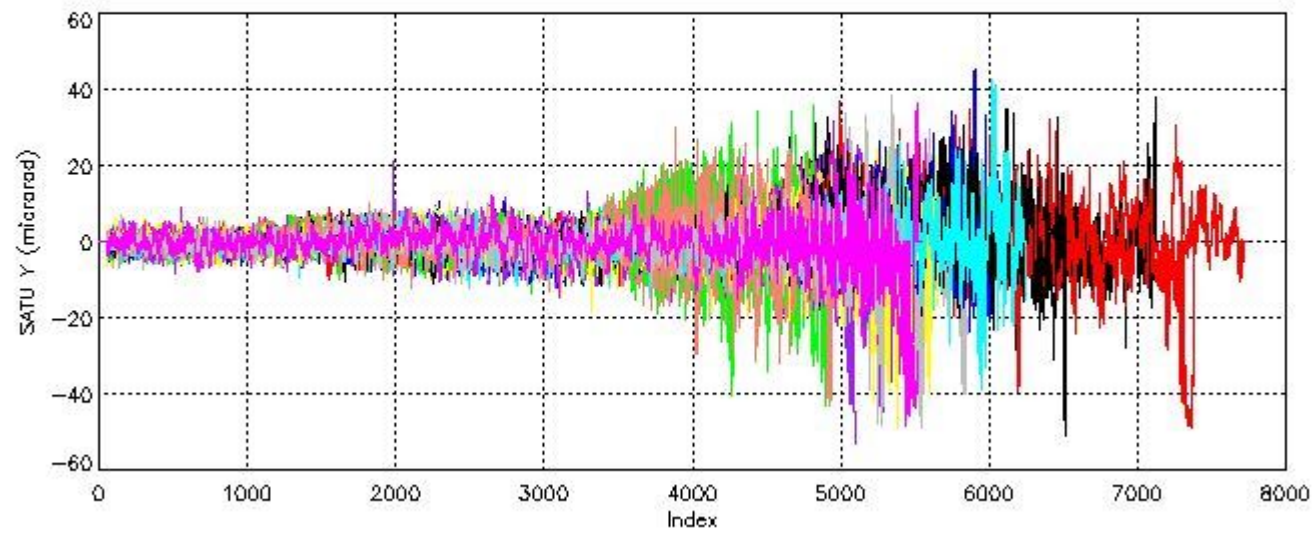
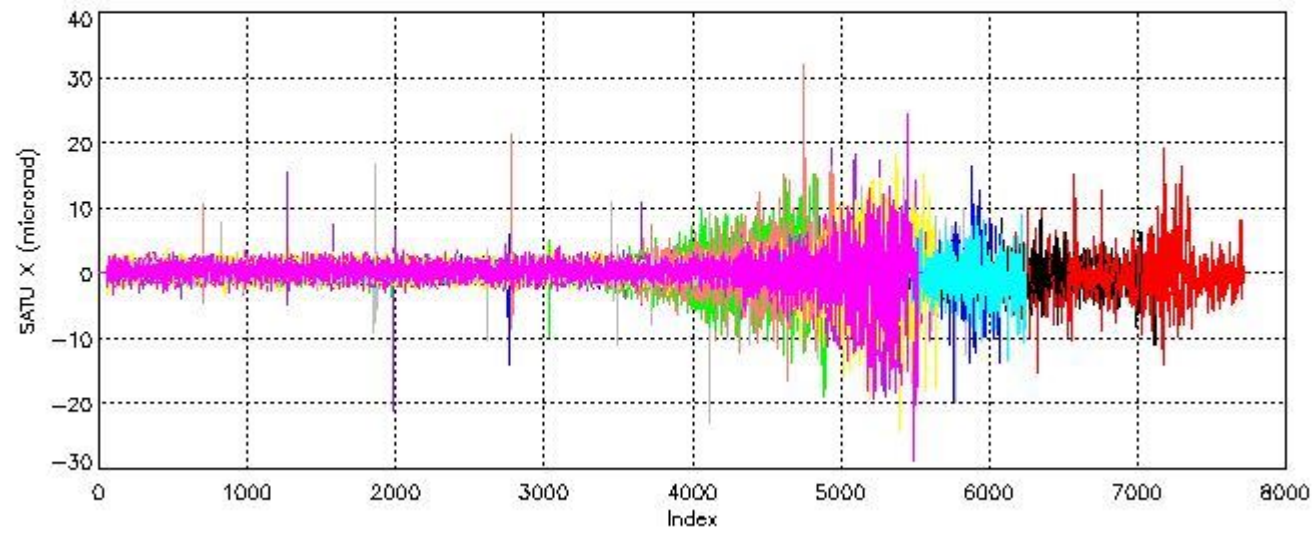


7. Star Acquisition and Tracking Unit (SATU)

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:	0.30864	-0.43566	0.30425	-0.40865
St. deviation:	0.61580	1.7148	0.80650	1.8422
Maximum:	15.400	9.2000	5.2000	8.7000
Minimum:	-4.9000	-9.3000	-4.1000	-9.1000

Number of data:	38100.	38100.	48450.	48450.
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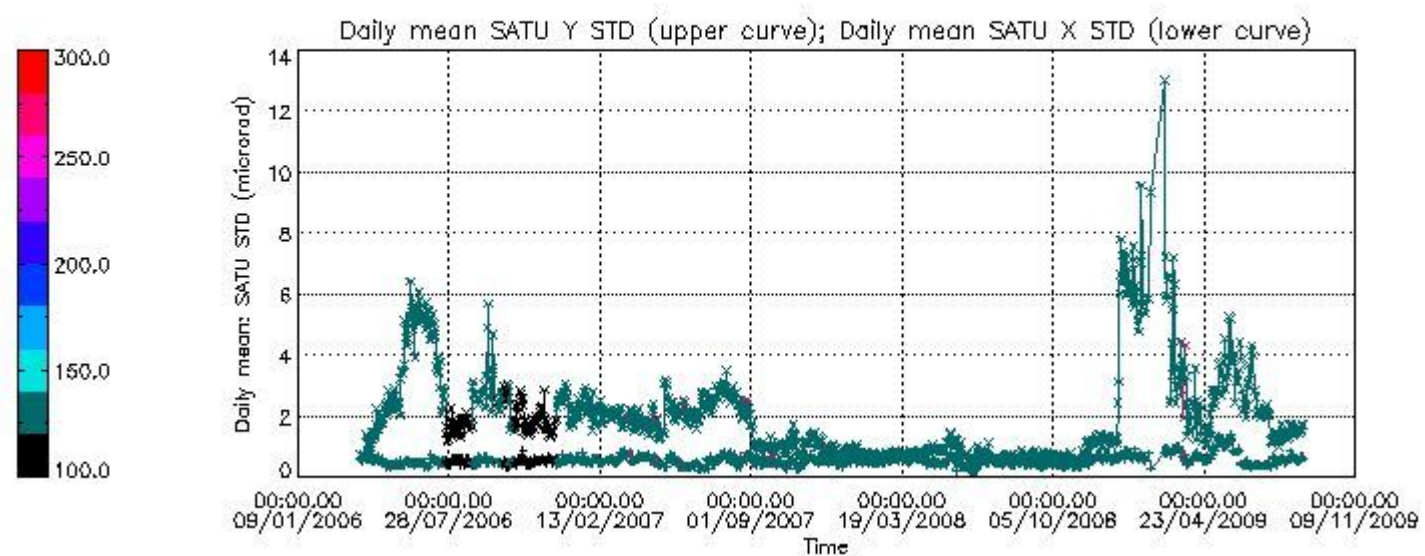
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

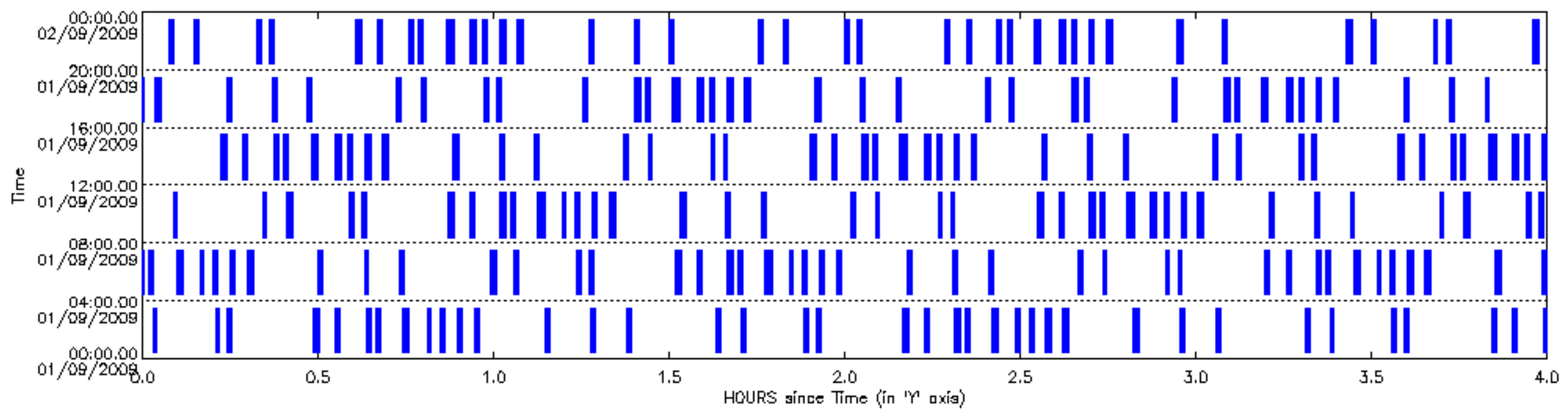
Lower curve: STD of SATU X axis

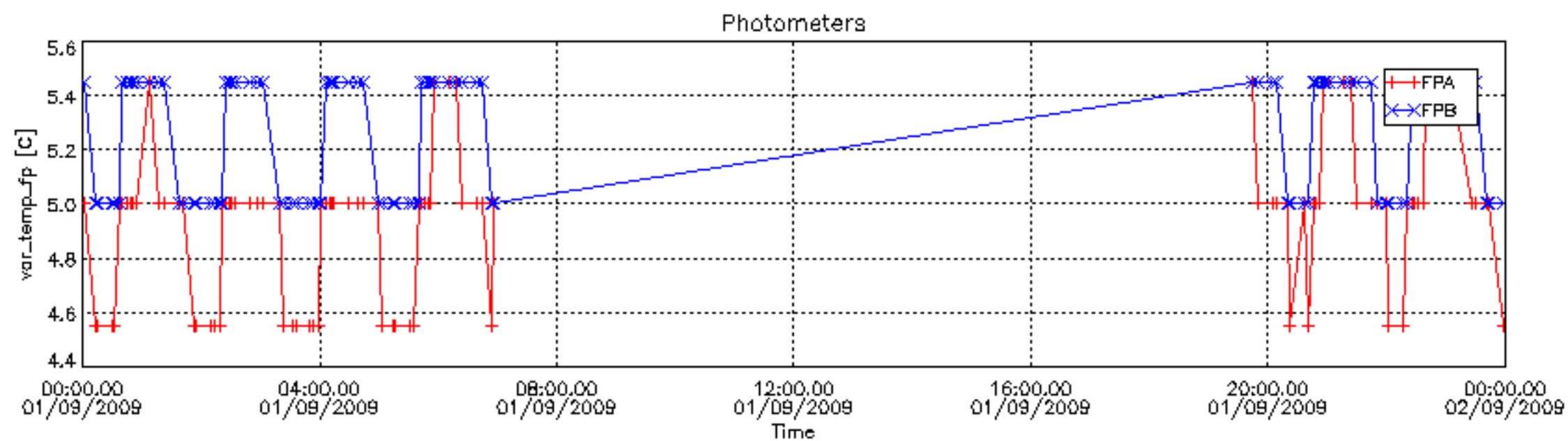
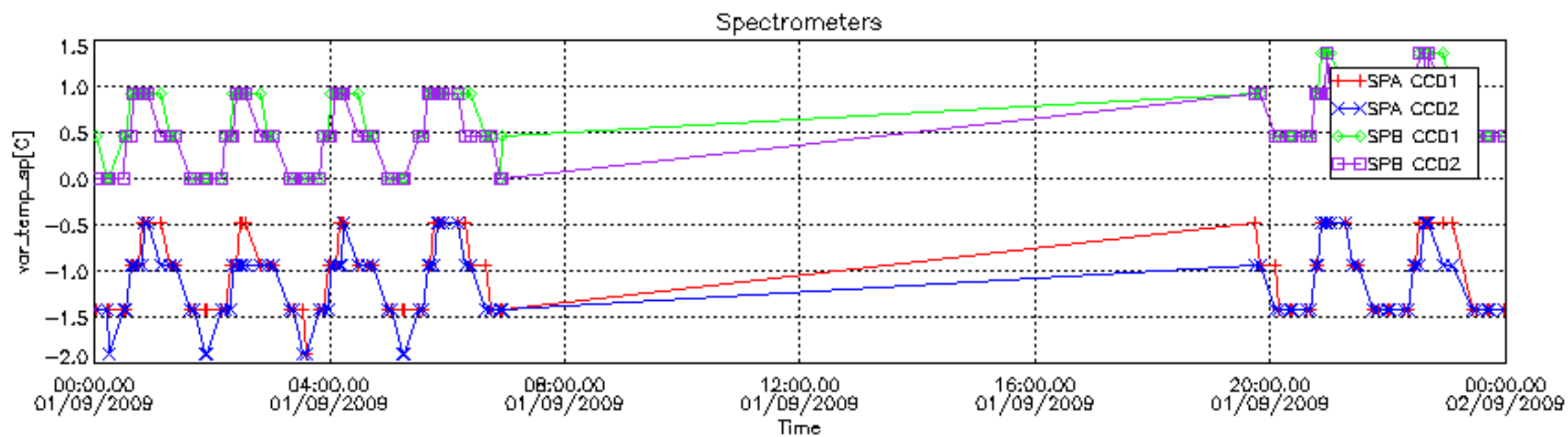


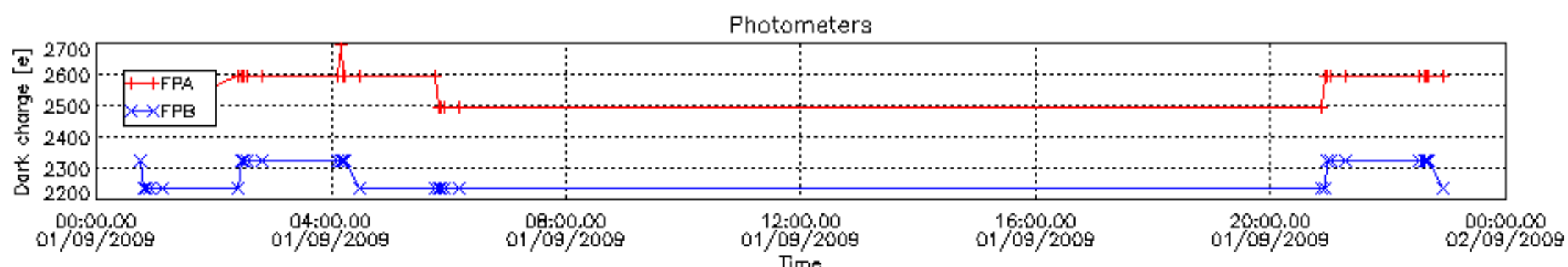
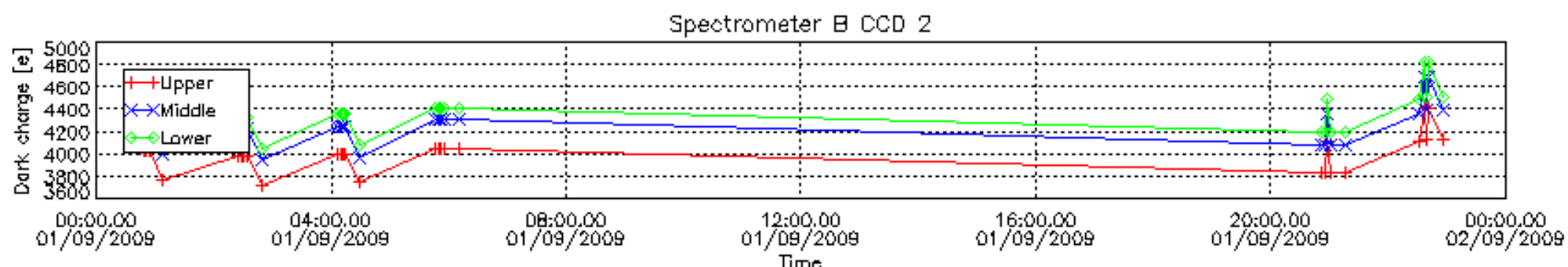
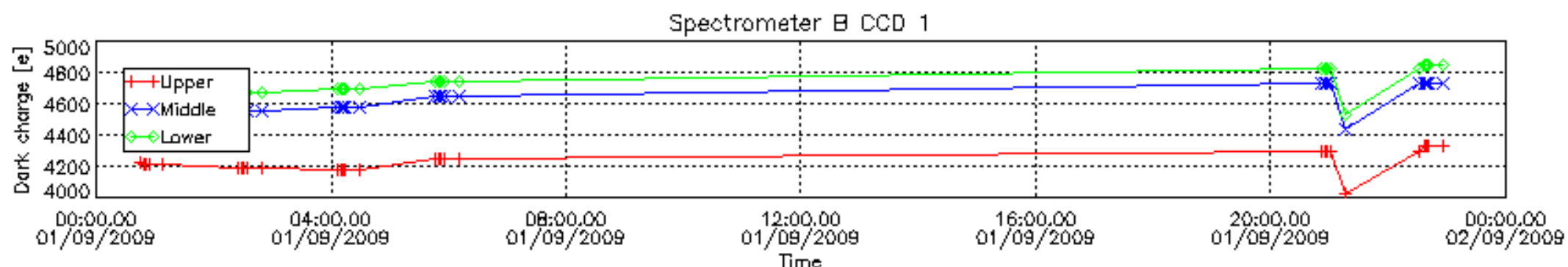
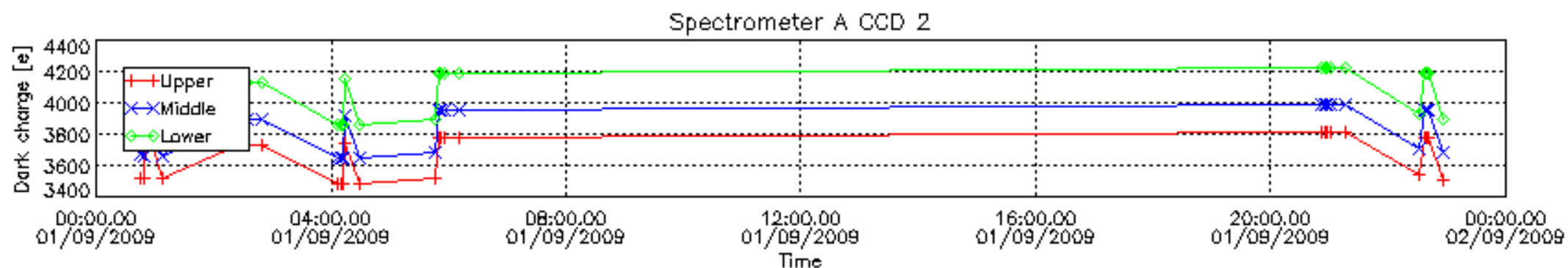
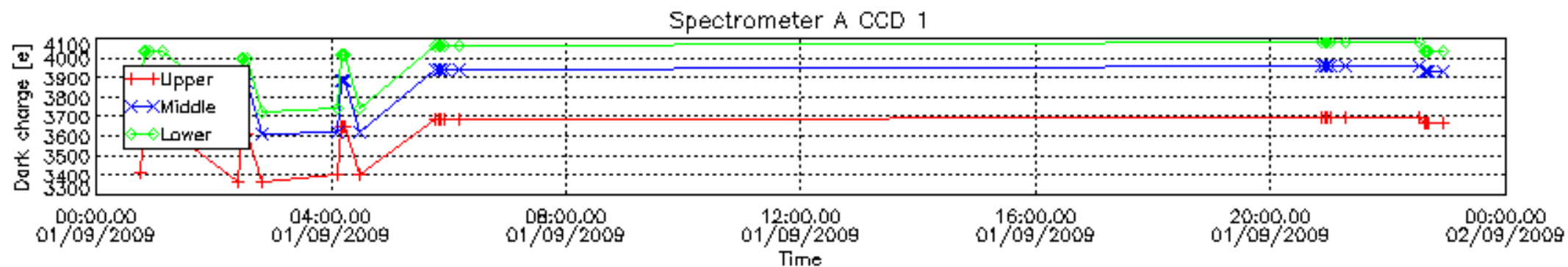
8. Auxiliary Data Files used for the production reported in section 2.4

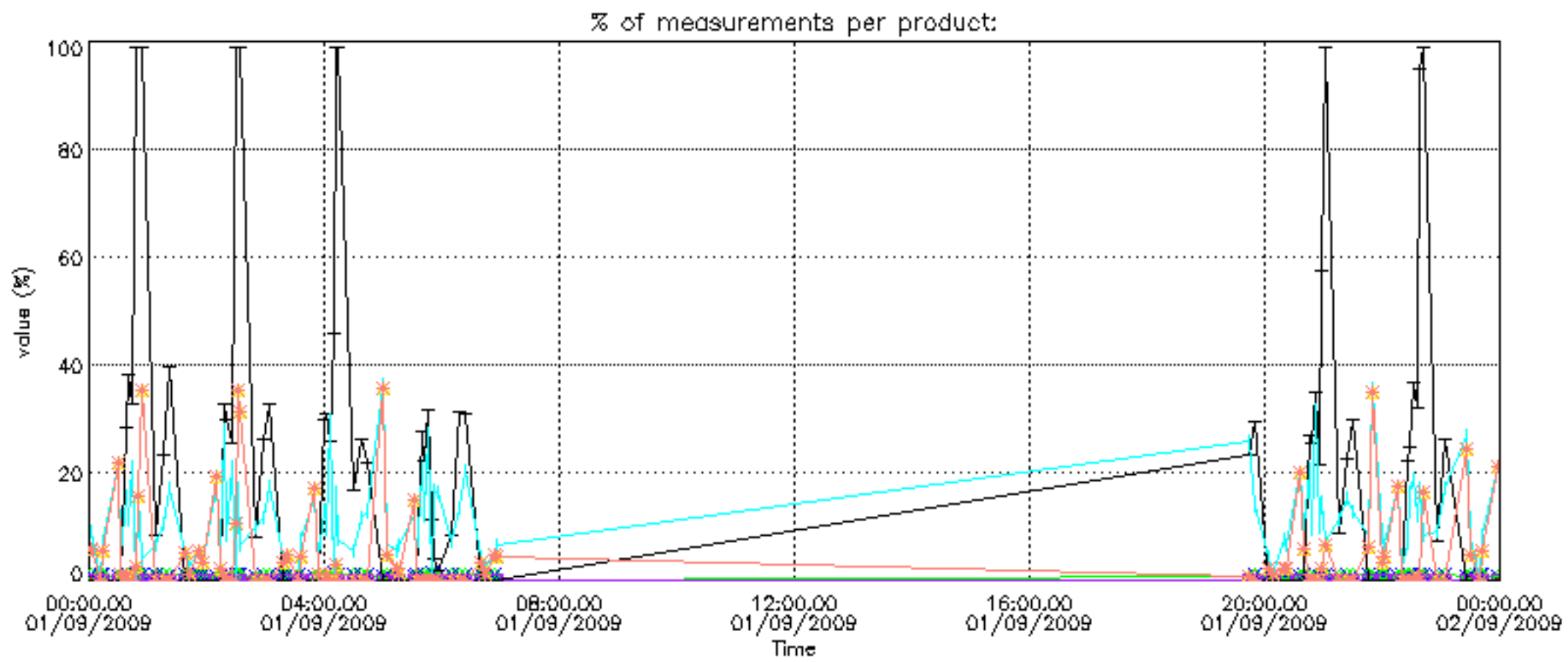
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	01-SEP-2009 00:01:39
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090831_103835_20090829_000000_20100101_000000	1	01-SEP-2009 00:01:39
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	01-SEP-2009 00:01:39
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	01-SEP-2009 00:01:39
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	01-SEP-2009 00:01:39
ECMWF_FILE	AUX_ECF_AXNECM20090831_070112_20090831_210000_20090901_090000	1	01-SEP-2009 00:01:39
ECMWF_FILE	AUX_ECF_AXNECM20090831_184116_20090901_030000_20090901_150000	34	01-SEP-2009 03:50:24
ECMWF_FILE	AUX_ECF_AXNECM20090901_064111_20090901_150000_20090902_030000	64	01-SEP-2009 19:43:17
ECMWF_FILE	AUX_ECF_AXNECM20090901_064111_20090901_210000_20090902_090000	90	01-SEP-2009 22:36:33
OPTIONAL_ECMWF_FILE	MISSING	1	01-SEP-2009 00:01:39
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090831_212254_000057382082_00100_39232_8667.N1	1	01-SEP-2009 00:01:39
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090831_230351_000057382082_00101_39233_8668.N1	9	01-SEP-2009 00:48:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090901_004448_000054192082_00102_39234_8669.N1	23	01-SEP-2009 02:25:02
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090901_022026_000044632082_00103_39235_8670.N1	34	01-SEP-2009 03:50:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090901_034008_000057382082_00104_39236_8671.N1	49	01-SEP-2009 05:31:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090901_194148_000035072082_00114_39246_8673.N1	64	01-SEP-2009 19:43:17
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090901_204534_000060572082_00114_39246_8674.N1	90	01-SEP-2009 22:36:33

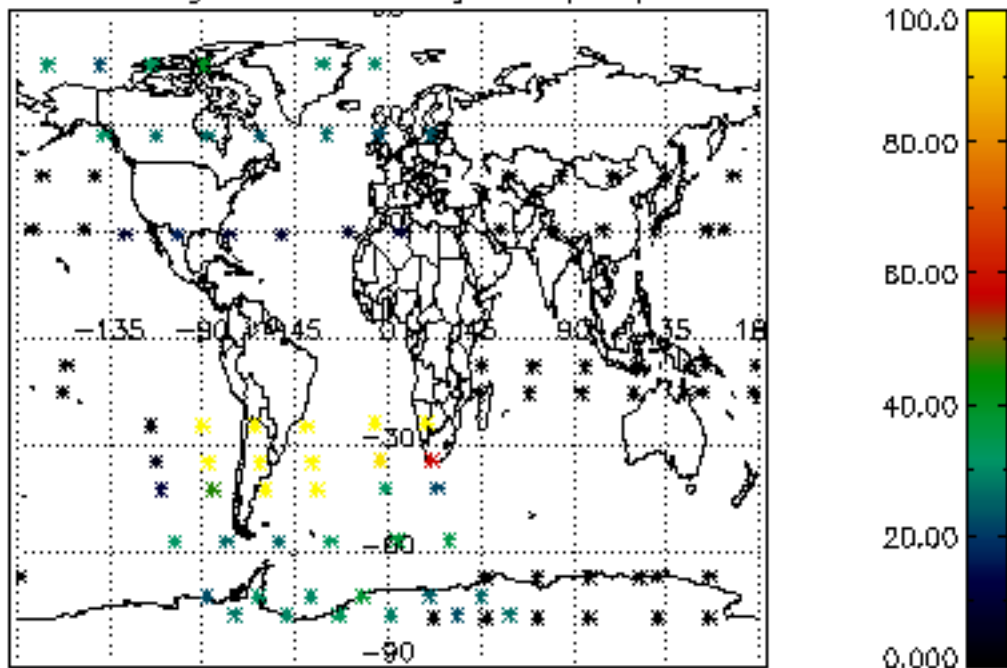




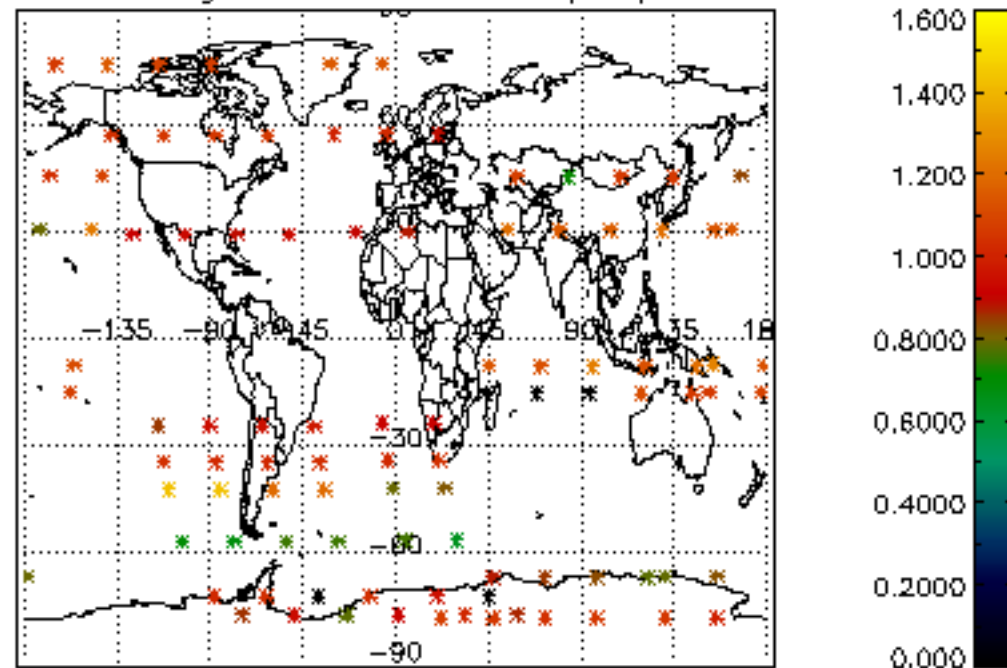




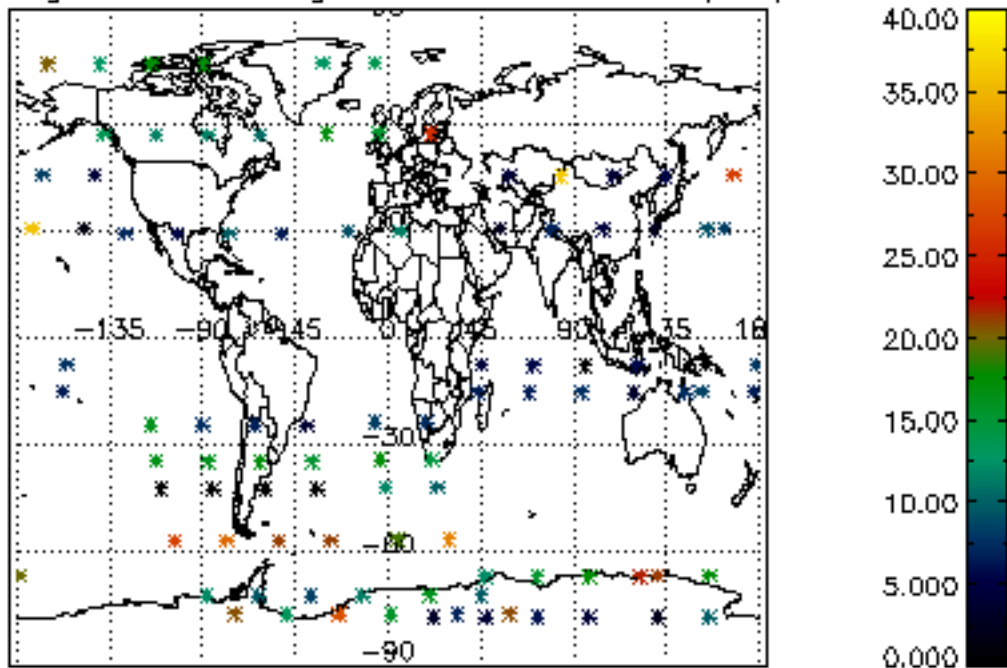
Percentage of cosmic ray hits per profile



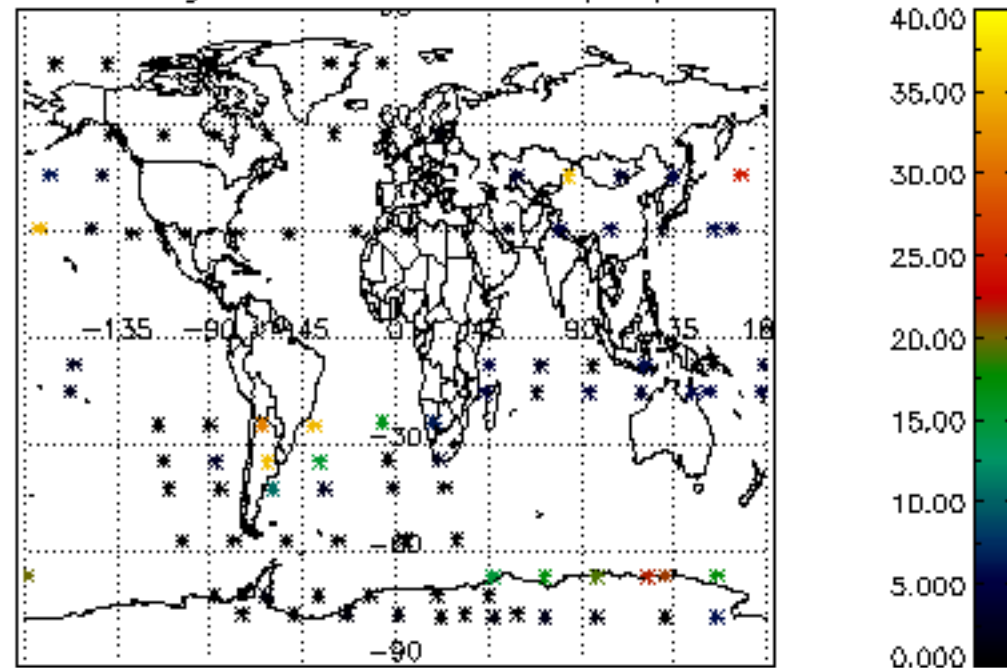
Percentage of datation errors per profile



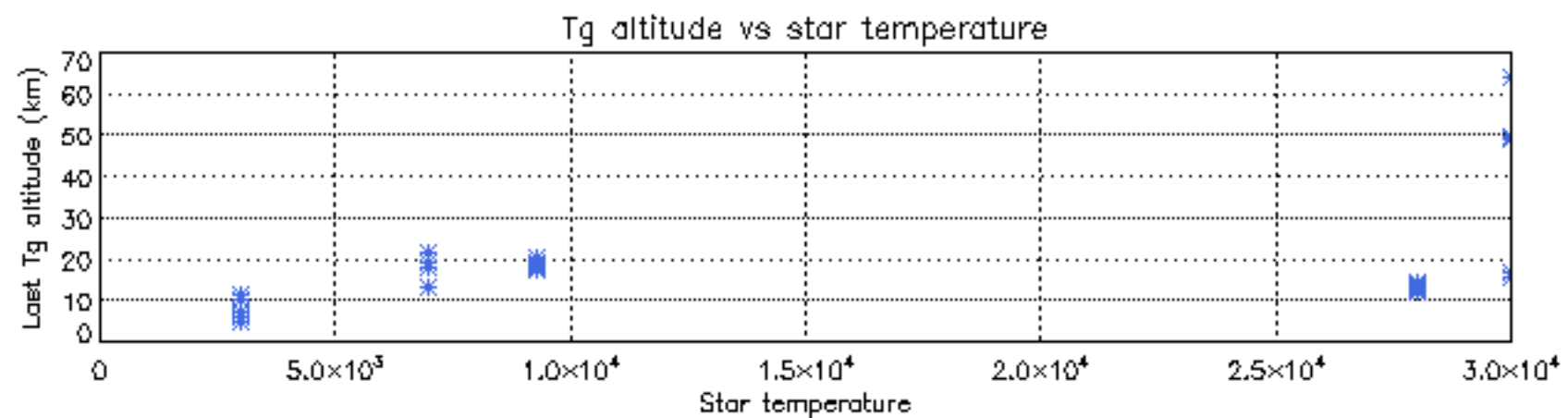
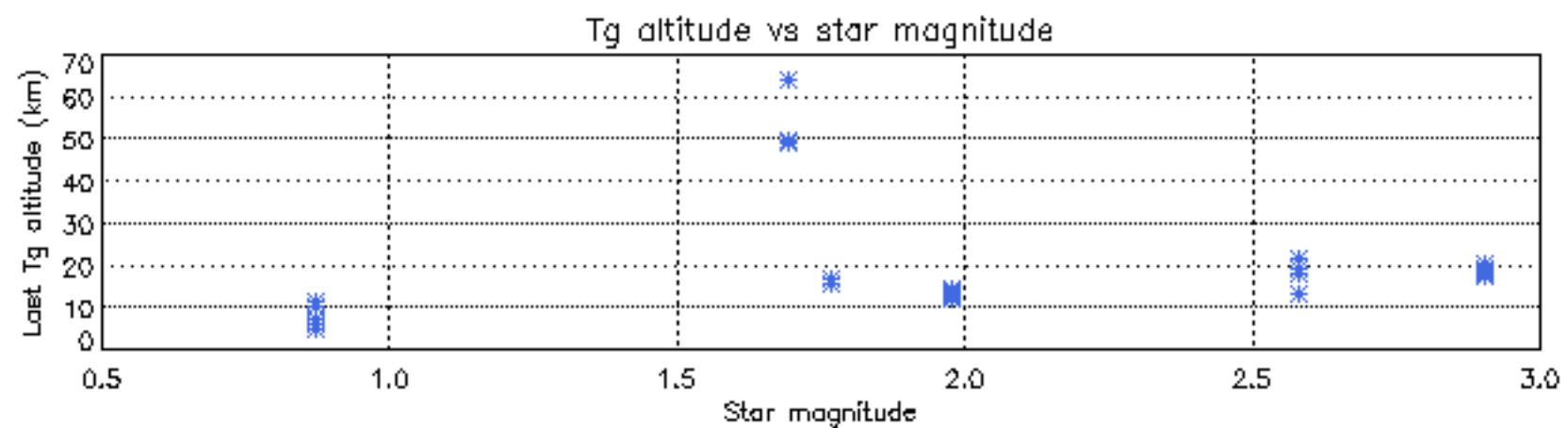
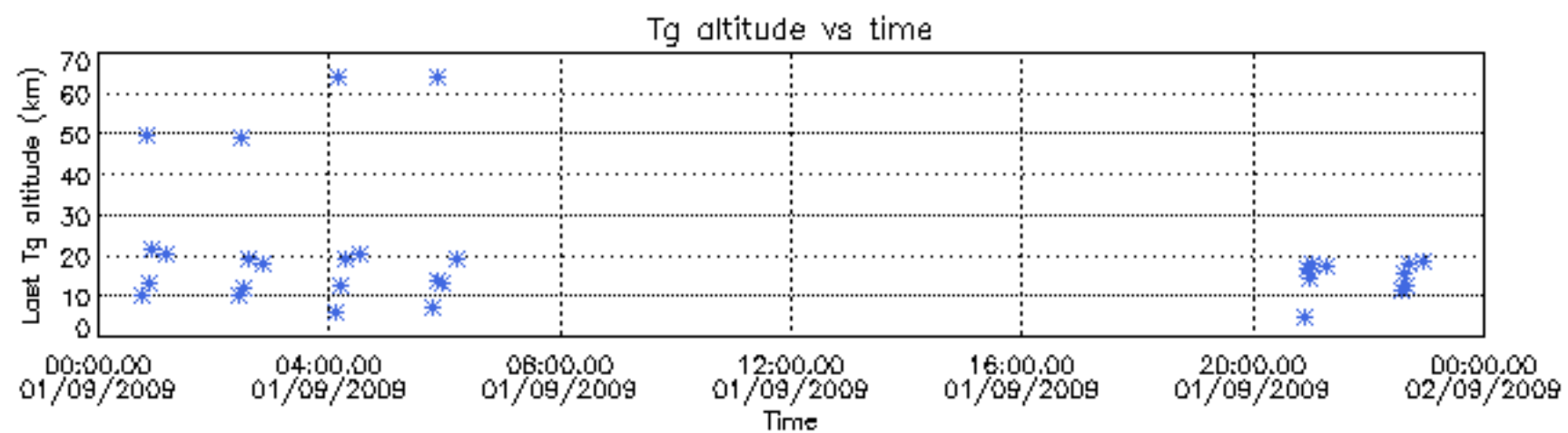
Percentage of star falling outside central band per profile



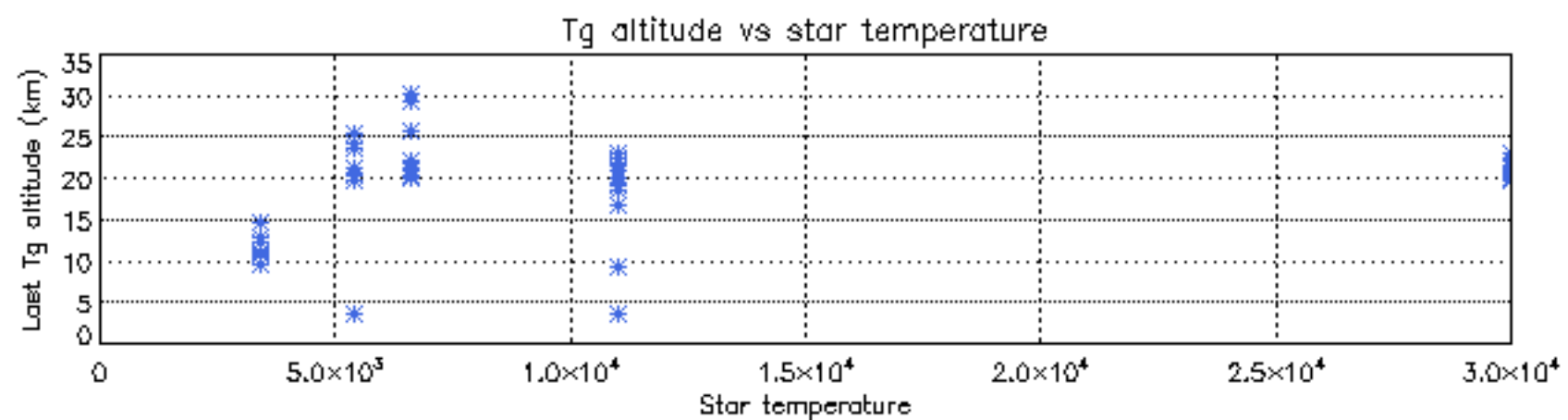
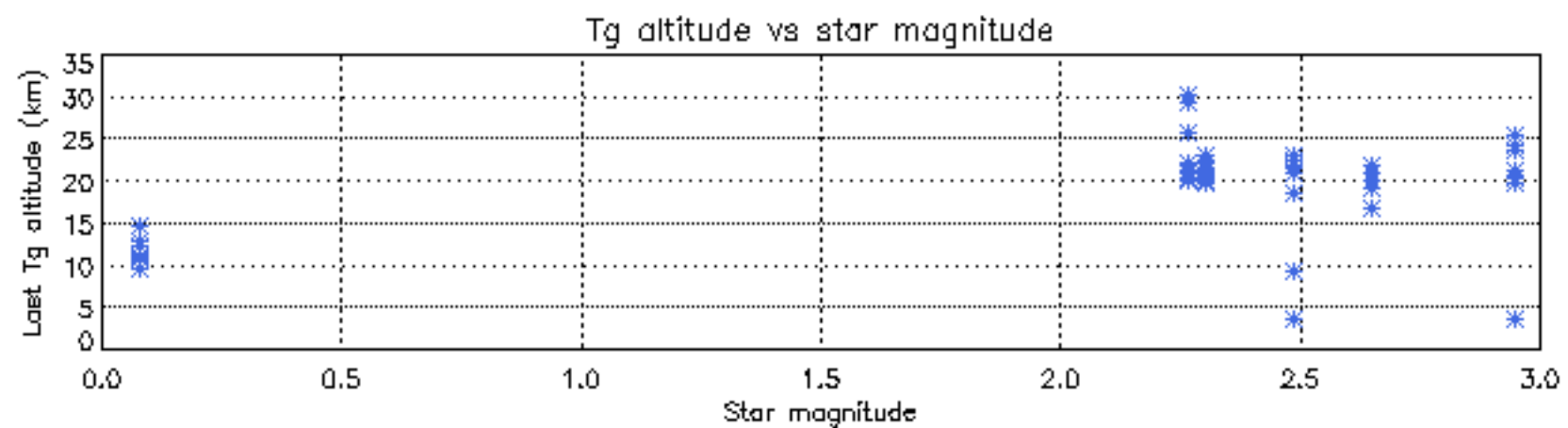
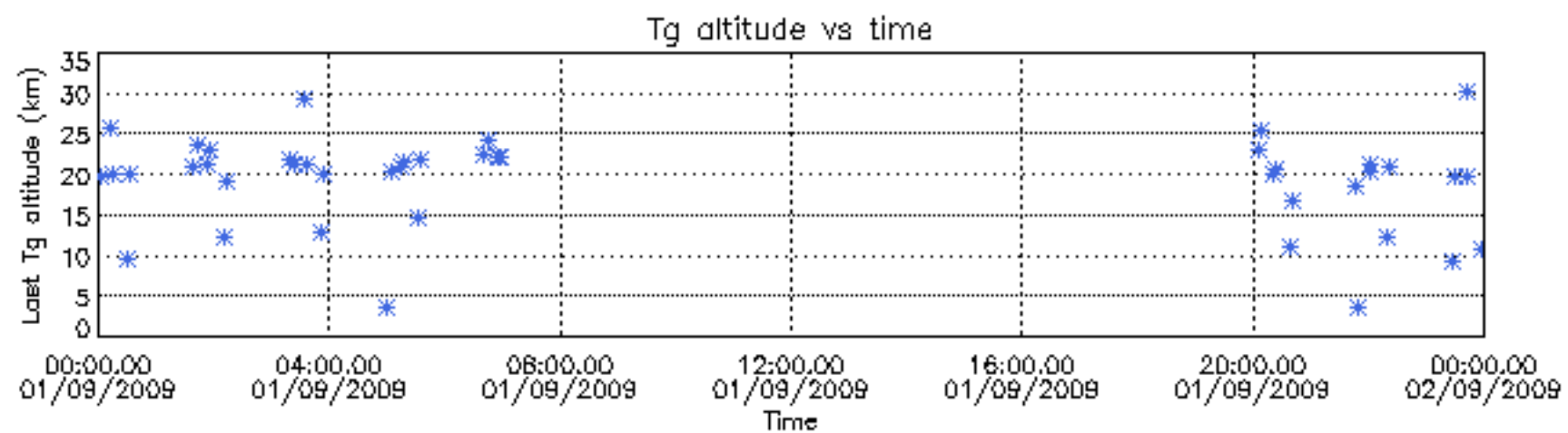
Percentage of saturation errors per profile

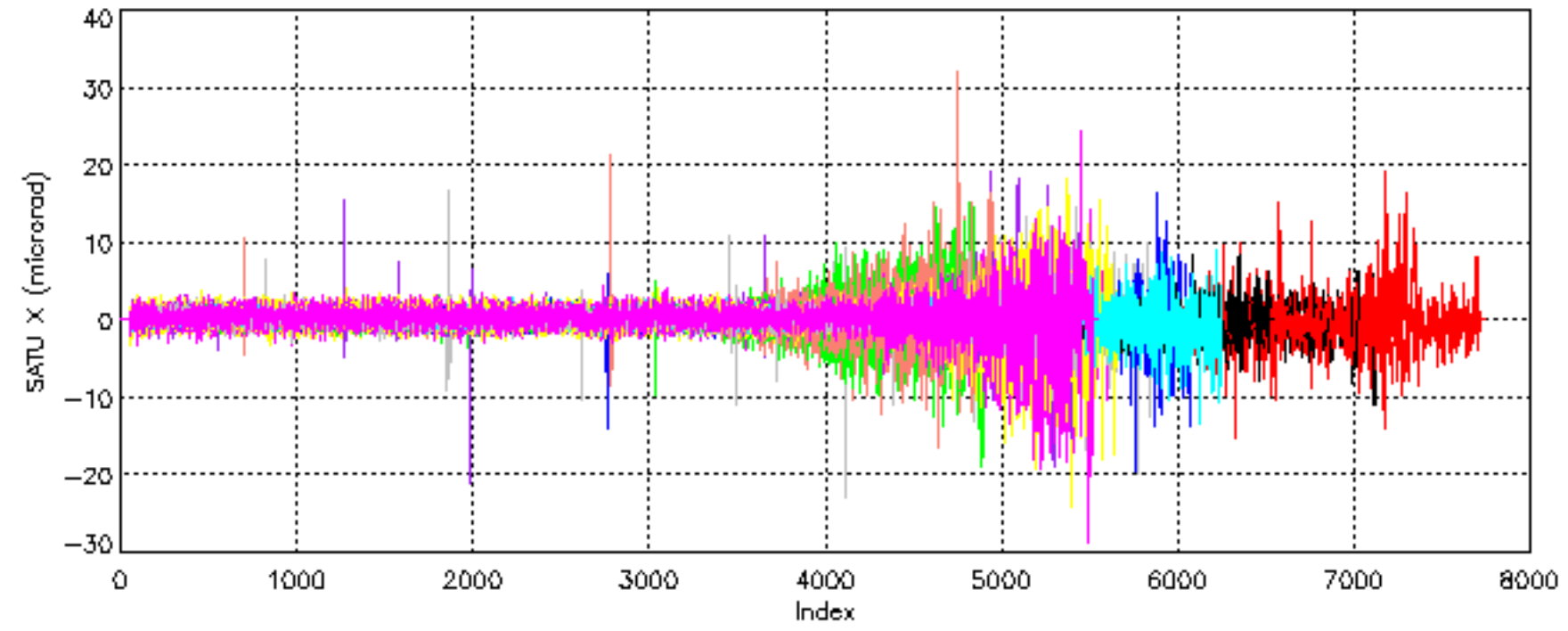


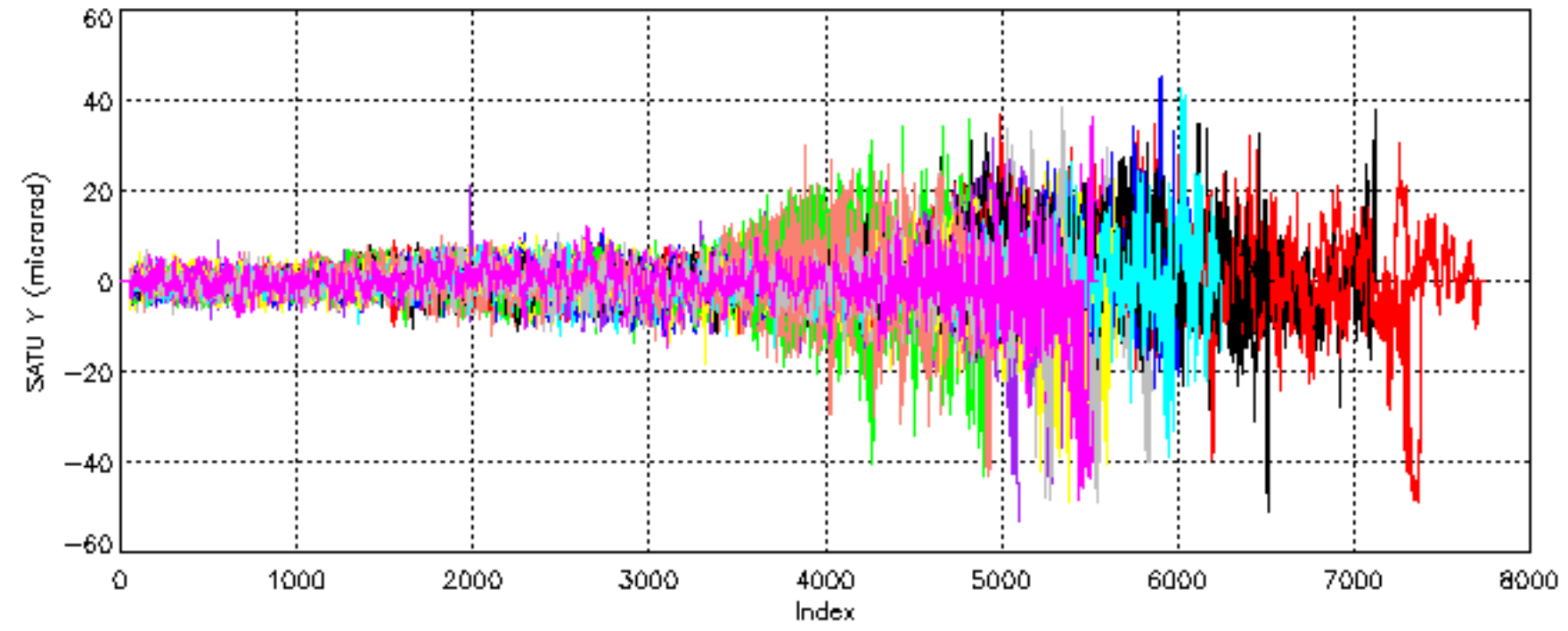
Tangent altitude at which the star is lost

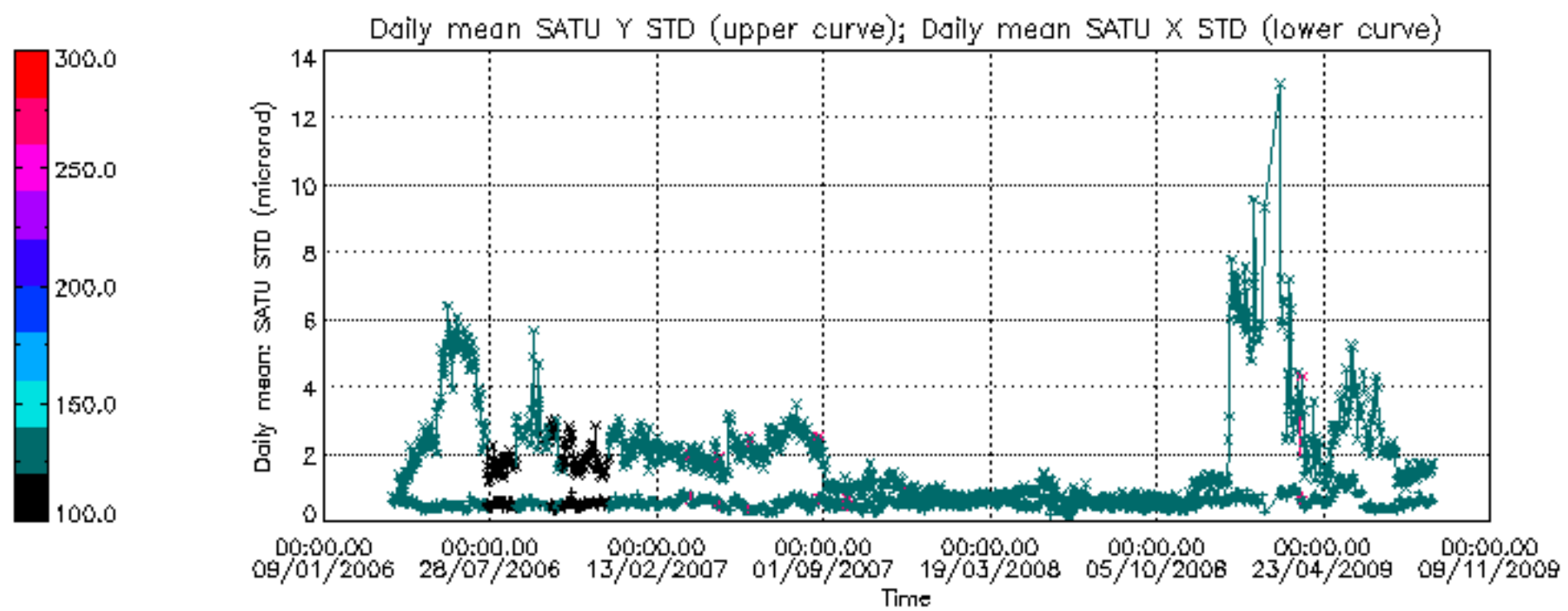


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090901_004836_000055572082_00102_39234_8472.N1

1; -717.2; 01-SEP-2009 00:48:36; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;39234
 2; -585.8; 01-SEP-2009 00:50:47; Dark ; 48.5; 47; 2Bet CMa ; 1.98; 28000;occ; 97; 0;39234
 3; -413.8; 01-SEP-2009 00:53:39; Dark ; 51.0; 101; 11Alp Lep ; 2.58; 7000;occ; 102; 0;39234
 4; -237.7; 01-SEP-2009 00:56:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39234
 5; 487.5; 01-SEP-2009 01:08:40; Dark ; 54.0; 157; The1Eri ; 2.91; 9300;occ; 108; 0;39235
 6; 962.2; 01-SEP-2009 01:16:35; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39235
 7; 1329.7; 01-SEP-2009 01:22:43; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;39235
 8; 2249.9; 01-SEP-2009 01:38:03; Bright; 47.5; 90; 54Alp Peg ; 2.49; 11000;occ; 95; 0;39235
 9; 2501.4; 01-SEP-2009 01:42:14; Bright; 41.5; 164; 44Eta Peg ; 2.95; 5400;occ; 83; 0;39235
 10; 3142.8; 01-SEP-2009 01:52:56; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;39235
 11; 3270.9; 01-SEP-2009 01:55:04; Bright; 45.0; 76; 27Gam Cas ; 2.30; 30000;occ; 90; 0;39235
 12; 4155.8; 01-SEP-2009 02:09:49; Bright; 60.0; 6; 13Alp Aur ; 0.08; 3400;occ; 120; 0;39235
 13; 4378.2; 01-SEP-2009 02:13:31; Bright; 48.0; 107; 37The Aur ; 2.65; 11000;occ; 96; 0;39235
 14; 4687.0; 01-SEP-2009 02:18:40; Dark ; 64.0; 151; 13Mu Gem ; 2.89; 3000;occ; 128; 0;39235
 15; 4792.9; 01-SEP-2009 02:20:26; Dark ; 47.0; 44; 24Gam Gem ; 1.93; 11000;occ; 94; 0;39235

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090901_022502_000042832082_00103_39235_8473.N1

1; -966.8; 01-SEP-2009 02:25:02; Dark ; 66.5; 14; 58Alp Ori ; 0.87; 3000;occ; 133; 0;39235
 2; -715.8; 01-SEP-2009 02:29:13; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;39235
 3; -584.8; 01-SEP-2009 02:31:24; Dark ; 49.5; 47; 2Bet CMa ; 1.98; 28000;occ; 99; 0;39235
 4; -412.2; 01-SEP-2009 02:34:17; Dark ; 52.5; 101; 11Alp Lep ; 2.58; 7000;occ; 105; 0;39235
 5; -236.5; 01-SEP-2009 02:37:12; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;39235
 6; 488.8; 01-SEP-2009 02:49:18; Dark ; 56.0; 157; The1Eri ; 2.91; 9300;occ; 112; 0;39236
 7; 962.7; 01-SEP-2009 02:57:12; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39236
 8; 1330.1; 01-SEP-2009 03:03:19; Dark ; 46.0; 18; 24Alp PsA ; 1.17; 9700;occ; 92; 0;39236
 9; 2249.4; 01-SEP-2009 03:18:38; Bright; 47.0; 90; 54Alp Peg ; 2.49; 11000;occ; 94; 0;39236
 10; 2500.7; 01-SEP-2009 03:22:50; Bright; 43.0; 164; 44Eta Peg ; 2.95; 5400;occ; 86; 0;39236
 11; 3142.5; 01-SEP-2009 03:33:31; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;39236
 12; 3270.4; 01-SEP-2009 03:35:39; Bright; 46.0; 76; 27Gam Cas ; 2.30; 30000;occ; 92; 0;39236

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 8; -411.4; 01-SEP-2009 04:14:53; Dark ; 53.0; 101; 11Alp Lep ; 2.58; 7000;occ; 106; 0;39236
 9; -235.3; 01-SEP-2009 04:17:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39236
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 11; 963.6; 01-SEP-2009 04:37:48; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;39237
 12; 1330.4; 01-SEP-2009 04:43:55; Dark ; 43.5; 18; 24Alp PsA ; 1.17; 9700;occ; 87; 0;39237
 13; 2248.7; 01-SEP-2009 04:59:14; Bright; 70.0; 90; 54Alp Peg ; 2.49; 11000;occ; 140; 0;39237
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 15; 3141.8; 01-SEP-2009 05:14:07; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;39237
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 3; -1348.2; 01-SEP-2009 05:39:53; Dark ; 58.0; 151; 13Mu Gem ; 2.89; 3000;occ; 116; 0;39237
 4; -1242.4; 01-SEP-2009 05:41:38; Dark ; 49.5; 44; 24Gam Gem ; 1.93; 11000;occ; 99; 0;39237
 5; -964.9; 01-SEP-2009 05:46:16; Dark ; 71.5; 14; 58Alp Ori ; 0.87; 3000;occ; 143; 0;39237
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 12; 1330.7; 01-SEP-2009 06:24:32; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;39238
 13; 2248.4; 01-SEP-2009 06:39:49; Bright; 46.5; 90; 54Alp Peg ; 2.49; 11000;occ; 93; 0;39238
 14; 2499.6; 01-SEP-2009 06:44:00; Bright; 41.5; 164; 44Eta Peg ; 2.95; 5400;occ; 83; 0;39238
 15; 3141.0; 01-SEP-2009 06:54:42; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;39238
 16; 3268.9; 01-SEP-2009 06:56:50; Bright; 45.5; 76; 27Gam Cas ; 2.30; 30000;occ; 91; 0;39238

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 3; 2244.0; 01-SEP-2009 20:04:32; Bright; 46.0; 90; 54Alp Peg ; 2.49; 11000;occ; 92; 0;39246
 4; 2495.9; 01-SEP-2009 20:08:44; Bright; 40.5; 164; 44Eta Peg ; 2.95; 5400;occ; 81; 0;39246

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7; 4152.7; 01-SEP-2009 20:36:21; Bright; 62.5; 6; 13Alp Aur ; 0.08; 3400;occ; 125; 0;39246
8; 4378.4; 01-SEP-2009 20:40:07; Bright; 50.5; 107; 37The Aur ; 2.65; 11000;occ; 101; 0;39246
9; 4690.5; 01-SEP-2009 20:45:19; Dark ; 57.5; 151; 13Mu Gem ; 2.89; 3000;occ; 115; 0;39246
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4; -399.2; 01-SEP-2009 21:01:05; Dark ; 54.5; 101; 11Alp Lep ; 2.58; 7000;occ; 109; 0;39246
5; -223.7; 01-SEP-2009 21:04:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39246
6; 502.0; 01-SEP-2009 21:16:06; Dark ; 57.0; 157; The1Eri ; 2.91; 9300;occ; 114; 0;39247
7; 969.2; 01-SEP-2009 21:23:53; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;39247
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9; 2243.6; 01-SEP-2009 21:45:08; Bright; 48.5; 90; 54Alp Peg ; 2.49; 11000;occ; 97; 0;39247
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13; 4152.6; 01-SEP-2009 22:16:57; Bright; 60.5; 6; 13Alp Aur ; 0.08; 3400;occ; 121; 0;39247
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15; 4690.8; 01-SEP-2009 22:25:55; Dark ; 49.5; 151; 13Mu Gem ; 2.89; 3000;occ; 99; 0;39247
16; 4797.5; 01-SEP-2009 22:27:42; Dark ; 52.5; 44; 24Gam Gem ; 1.93; 11000;occ; 105; 0;39247
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3; -397.9; 01-SEP-2009 22:41:42; Dark ; 54.5; 101; 11Alp Lep ; 2.58; 7000;occ; 109; 0;39247
4; -222.5; 01-SEP-2009 22:44:38; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;39247
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6; 969.8; 01-SEP-2009 23:04:30; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;39248
7; 2243.0; 01-SEP-2009 23:25:43; Bright; 59.5; 90; 54Alp Peg ; 2.49; 11000;occ; 119; 0;39248
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13; 4691.1; 02-SEP-2009 00:06:31; Dark ; 58.5; 151; 13Mu Gem ; 2.89; 3000;occ; 117; 0;39248
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8; -408.8; 01-SEP-2009 07:36:08; Dark ; 54.0; 101; 11Alp Lep ; 2.58; 7000;occ; 108; 0;39238
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11; 964.6; 01-SEP-2009 07:59:01; Dark ; 49.5; 84; Alp Phe ; 2.40; 4500;occ; 99; 0;39239
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3; 3140.5; 01-SEP-2009 08:35:17; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;39239
4; 3268.2; 01-SEP-2009 08:37:25; Bright; 45.0; 76; 27Gam Cas ; 2.30; 30000;occ; 90; 0;39239
5; 4154.7; 01-SEP-2009 08:52:11; Bright; 59.5; 6; 13Alp Aur ; 0.08; 3400;occ; 119; 0;39239
6; 4378.4; 01-SEP-2009 08:55:55; Bright; 46.5; 107; 37The Aur ; 2.65; 11000;occ; 93; 0;39239
7; 4688.4; 01-SEP-2009 09:01:05; Dark ; 54.5; 151; 13Mu Gem ; 2.89; 3000;occ; 109; 0;39239
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9; 5072.7; 01-SEP-2009 09:07:29; Dark ; 69.5; 14; 58Alp Ori ; 0.87; 3000;occ; 139; 0;39239
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 3; 3139.1; 01-SEP-2009 11:56:28; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;39241
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 6; 1522.8; 13-SEP-2009 21:56:05; Dark ; 58.5; 52; 16Bet Cet ; 2.04; 4500;occ; 117; 0;39419
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 6; 4174.7; 13-SEP-2009 14:17:17; Bright; 55.0; 42; 34Bet Aur ; 1.90; 10200;occ; 110; 0;39414
 7; 4476.9; 13-SEP-2009 14:22:20; Bright; 61.0; 24; 66Alp Gem ; 1.58; 10200;occ; 122; 0;39414
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 4; 2561.0; 13-SEP-2009 15:30:59; Bright; 48.5; 58; 21Alp And ; 2.07; 11000;occ; 97; 0;39415
 5; 3042.8; 13-SEP-2009 15:39:01; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;39415
 6; 3154.5; 13-SEP-2009 15:40:53; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;39415
 7; 4174.7; 13-SEP-2009 15:57:53; Bright; 55.5; 42; 34Bet Aur ; 1.90; 10200;occ; 111; 0;39415
 8; 4477.4; 13-SEP-2009 16:02:56; Bright; 61.0; 24; 66Alp Gem ; 1.58; 10200;occ; 122; 0;39415
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12; 5656.2; 13-SEP-2009 16:22:35; Dark ; 47.5; 23; 21Eps CMa ; 1.50; 26000;occ; 95; 0;39415
13; 5875.9; 13-SEP-2009 16:26:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39415
14; 6001.3; 13-SEP-2009 16:28:20; Dark ; 51.0; 108; Alp Col ; 2.65; 15200;occ; 102; 0;39415
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6; 3153.8; 13-SEP-2009 17:21:28; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;39416
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4; 2559.5; 13-SEP-2009 18:52:10; Bright; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;39417
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6; 3153.0; 13-SEP-2009 19:02:03; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;39417
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5; 699.4; 14-SEP-2009 01:03:33; Dark ; 55.5; 157; The1Eri ; 2.91; 9300;occ; 111; 0;39421
6; 1523.3; 14-SEP-2009 01:17:17; Dark ; 58.5; 52; 16Bet Cet ; 2.04; 4500;occ; 117; 0;39421
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9; 2556.3; 14-SEP-2009 01:34:30; Bright; 49.5; 58; 21Alp And ; 2.07; 11000;occ; 99; 0;39421
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11; 3150.7; 14-SEP-2009 01:44:25; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;39421
12; 4172.8; 14-SEP-2009 02:01:27; Bright; 52.0; 42; 34Bet Aur ; 1.90; 10200;occ; 104; 0;39421
13; 4478.1; 14-SEP-2009 02:06:32; Bright; 44.5; 24; 66Alp Gem ; 1.58; 10200;occ; 89; 0;39421
14; 4665.4; 14-SEP-2009 02:09:39; Dark ; 63.0; 170; 27Eps Gem ; 3.00; 9700;occ; 126; 0;39421
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3; -154.8; 14-SEP-2009 02:29:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39421
4; -27.3; 14-SEP-2009 02:32:03; Dark ; 54.5; 108; Alp Col ; 2.65; 15200;occ; 109; 0;39421
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3; -1370.3; 14-SEP-2009 03:50:16; Dark ; 60.5; 170; 27Eps Gem ; 3.00; 9700;occ; 121; 0;39422
4; -1147.2; 14-SEP-2009 03:53:59; Dark ; 32.0; 44; 24Gam Gem ; 1.93; 11000;occ; 64; 0;39422


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16; 3038.5; 14-SEP-2009 06:44:20; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;39424
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12; 3143.9; 14-SEP-2009 21:51:29; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;39433
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14; 4669.5; 14-SEP-2009 22:16:55; Dark ; 64.5; 170; 27Eps Gem ; 3.00; 9700;occ; 129; 0;39433
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3; 2459.8; 25-SEP-2009 22:34:40; Bright; 34.0; 58; 21Alp And ; 2.07; 11000;occ; 68; 0;39591
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3; 3061.3; 26-SEP-2009 00:25:17; Bright; 37.0; 76; 27Gam Cas ; 2.30; 30000;occ; 74; 0;39592
4; 4503.1; 26-SEP-2009 00:49:19; Bright; 33.5; 24; 66Alp Gem ; 1.58; 10200;occ; 67; 0;39592
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5; 1547.3; 26-SEP-2009 01:40:39; Dark ; 38.0; 52; 16Bet Cet ; 2.04; 4500;occ; 76; 0;39593
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8; 2715.3; 26-SEP-2009 02:00:07; Bright; 51.5; 53; 43Bet And ; 2.05; 3300;occ; 103; 0;39593
9; 2971.2; 26-SEP-2009 02:04:23; Bright; 23.0; 74; 11Bet Cas ; 2.27; 6600;occ; 46; 0;39593
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5; 21.3; 26-SEP-2009 07:57:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;39597
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