

# GOMOS Daily Report 10-NOV-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	12NOV2009 04:33:42
Data source version	GOMOS/5.00L03
Start time of products	10NOV2009 00:01:44
Stop time of products	10NOV2009 23:58:43
Store outputs in DB	Yes
Nb of level 1b prods	92
Nb of prods with errors	0

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

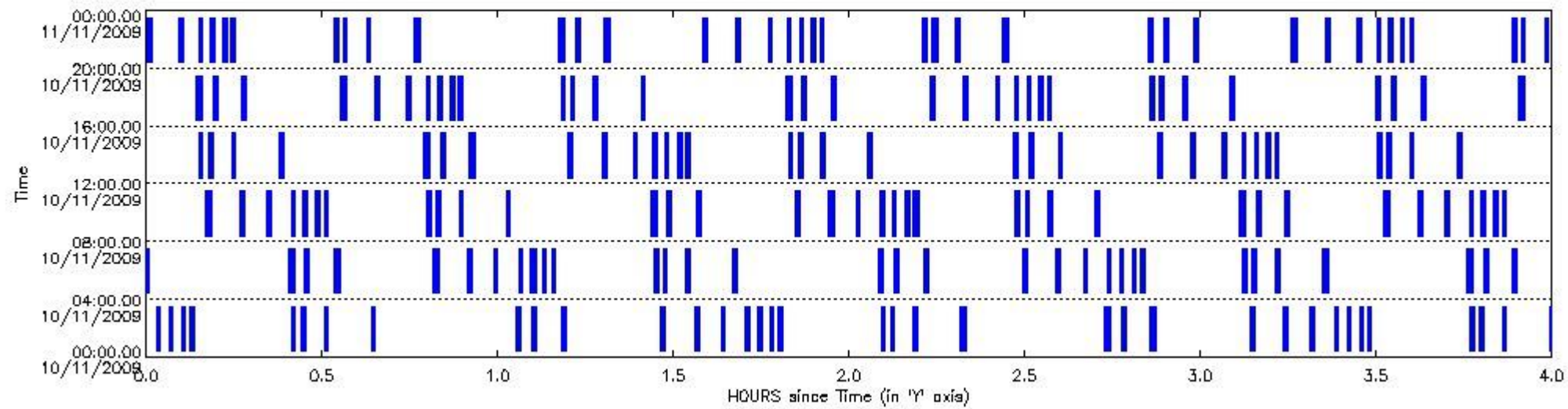
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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

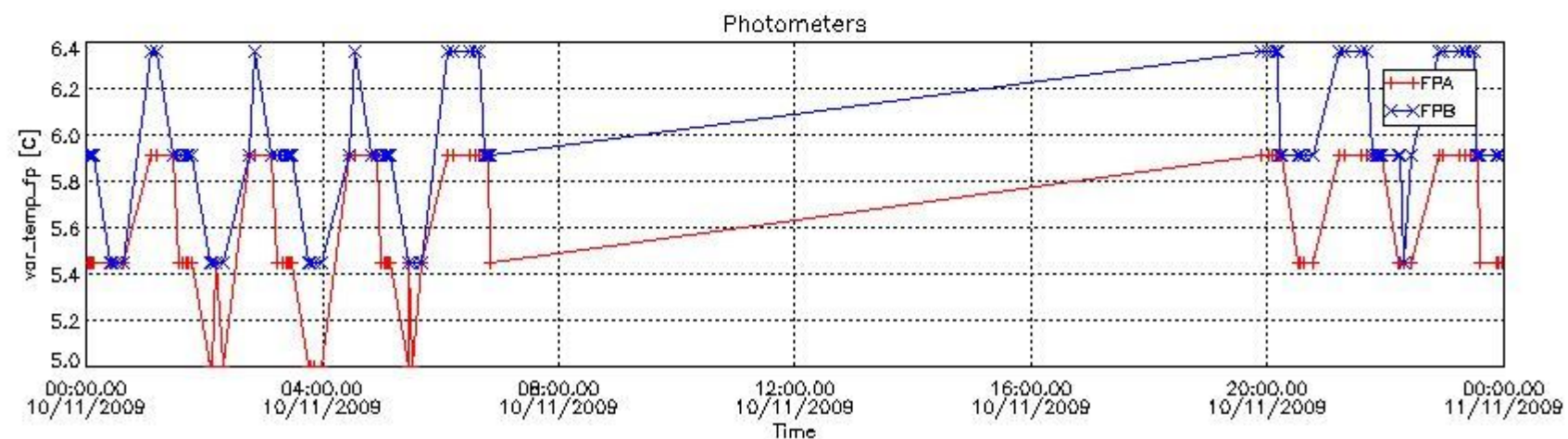
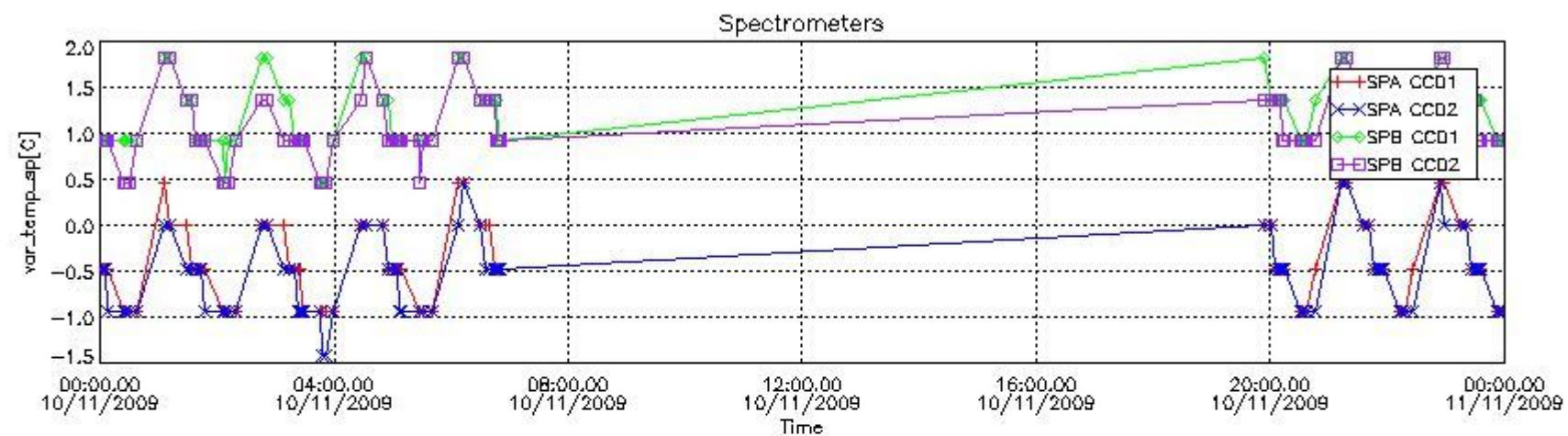
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20091110_000144_000000362084_00102_40236_3127.N1	10-NOV-2009 00:01:44	Bright	36.000	173	4Bet Tri	3.0040	8900.0	72	40236	No
2	GOM_TRA_1PNPDE20091110_000348_000000372084_00102_40236_3128.N1	10-NOV-2009 00:03:48	Bright	37.000	73	57Gam1And	2.2600	13100.	74	40236	No
3	GOM_TRA_1PNPDE20091110_000556_000000322084_00102_40236_3129.N1	10-NOV-2009 00:05:56	Twilight_stray	32.000	149	45Eps Per	2.8880	30000.	64	40236	No
4	GOM_TRA_1PNPDE20091110_000723_000000432084_00102_40236_3130.N1	10-NOV-2009 00:07:23	Bright	42.500	35	33Alp Per	1.7950	6250.0	85	40236	No
5	GOM_TRA_1PNPDE20091110_002450_000000372084_00102_40236_3131.N1	10-NOV-2009 00:24:50	Bright	37.000	36	50Alp UMa	1.8000	6300.0	74	40236	No
6	GOM_TRA_1PNPDE20091110_002628_000000422084_00102_40236_3132.N1	10-NOV-2009 00:26:28	Bright	41.500	82	48Bet UMa	2.3650	10600.	83	40236	No
7	GOM_TRA_1PNPDE20091110_003021_000000402084_00102_40236_3133.N1	10-NOV-2009 00:30:21	Bright	40.000	174	52Psi UMa	3.0040	4400.0	80	40236	No
8	GOM_TRA_1PNPDE20091110_003824_000000432084_00102_40236_3134.N1	10-NOV-2009 00:38:24	Bright	43.000	96	68Del Leo	2.5600	9300.0	86	40236	No
9	GOM_TRA_1PNPDE20091110_010550_000000482084_00103_40237_3127.N1	10-NOV-2009 01:05:50	Dark	48.000	34	Gam2Vel	1.7930	23000.	96	40237	No
10	GOM_TRA_1PNPDE20091110_011050_000000442084_00103_40237_3128.N1	10-NOV-2009 01:10:50	Dark	44.000	2	Alp Car	-0.73600	7000.0	88	40237	No
11	GOM_TRA_1PNPDE20091110_012745_000000532084_00103_40237_3129.N1	10-NOV-2009 01:27:45	Straylight	53.000	165	34Gam Eri	2.9500	3200.0	106	40237	No
12	GOM_TRA_1PNPDE20091110_013332_000000492084_00103_40237_3130.N1	10-NOV-2009 01:33:32	Twilight_stray	48.500	94	92Alp Cet	2.5260	3100.0	97	40237	No

13	GOM_TRA_1PNPDE20091110_013812_000000392084_00103_40237_3131.N1	10-NOV-2009 01:38:12	Bright	38.500	105	6Bet Ari	2.6450	8900.0	77	40237	No
14	GOM_TRA_1PNPDE20091110_014220_000000372084_00103_40237_3132.N1	10-NOV-2009 01:42:20	Bright	36.500	173	4Bet Tri	3.0040	8900.0	73	40237	No
15	GOM_TRA_1PNPDE20091110_014424_000000402084_00103_40237_3133.N1	10-NOV-2009 01:44:24	Bright	39.500	73	57Gam1And	2.2600	13100.	79	40237	No
16	GOM_TRA_1PNPDE20091110_014631_000000322084_00103_40237_3134.N1	10-NOV-2009 01:46:31	Tw_i_and_stray	32.000	149	45Eps Per	2.8880	30000.	64	40237	No
17	GOM_TRA_1PNPDE20091110_014758_000000402084_00103_40237_3135.N1	10-NOV-2009 01:47:58	Bright	40.000	35	33Alp Per	1.7950	6250.0	80	40237	No
18	GOM_TRA_1PNPDE20091110_020525_000000452084_00103_40237_3136.N1	10-NOV-2009 02:05:25	Bright	44.500	36	50Alp UMa	1.8000	6300.0	89	40237	No
19	GOM_TRA_1PNPDE20091110_020703_000000422084_00103_40237_3137.N1	10-NOV-2009 02:07:03	Bright	42.000	82	48Bet UMa	2.3650	10600.	84	40237	No
20	GOM_TRA_1PNPDE20091110_021057_000000422084_00103_40237_3138.N1	10-NOV-2009 02:10:57	Bright	41.500	174	52Psi UMa	3.0040	4400.0	83	40237	No
21	GOM_TRA_1PNPDE20091110_021900_000000552084_00103_40237_3139.N1	10-NOV-2009 02:19:00	Bright	55.000	96	68Del Leo	2.5600	9300.0	110	40237	No
22	GOM_TRA_1PNPDE20091110_024627_000000492084_00104_40238_3133.N1	10-NOV-2009 02:46:27	Dark	49.000	34	Gam2Vel	1.7930	23000.	98	40238	No
23	GOM_TRA_1PNPDE20091110_025127_000000522084_00104_40238_3134.N1	10-NOV-2009 02:51:27	Dark	51.500	2	Alp Car	-0.73600	7000.0	103	40238	No
24	GOM_TRA_1PNPDE20091110_030821_000000532084_00104_40238_3135.N1	10-NOV-2009 03:08:21	Straylight	53.000	165	34Gam Eri	2.9500	3200.0	106	40238	No
25	GOM_TRA_1PNPDE20091110_031408_000000492084_00104_40238_3136.N1	10-NOV-2009 03:14:08	Tw_i_and_stray	48.500	94	92Alp Cet	2.5260	3100.0	97	40238	No
26	GOM_TRA_1PNPDE20091110_031847_000000382084_00104_40238_3137.N1	10-NOV-2009 03:18:47	Bright	37.500	105	6Bet Ari	2.6450	8900.0	75	40238	No
27	GOM_TRA_1PNPDE20091110_032256_000000402084_00104_40238_3138.N1	10-NOV-2009 03:22:56	Bright	40.000	173	4Bet Tri	3.0040	8900.0	80	40238	No
28	GOM_TRA_1PNPDE20091110_032500_000000372084_00104_40238_3139.N1	10-NOV-2009 03:25:00	Bright	37.000	73	57Gam1And	2.2600	13100.	74	40238	No
29	GOM_TRA_1PNPDE20091110_032707_000000382084_00104_40238_3140.N1	10-NOV-2009 03:27:07	Bright	38.000	149	45Eps Per	2.8880	30000.	76	40238	No
30	GOM_TRA_1PNPDE20091110_032834_000000412084_00104_40238_3141.N1	10-NOV-2009 03:28:34	Bright	40.500	35	33Alp Per	1.7950	6250.0	81	40238	No
31	GOM_TRA_1PNPDE20091110_034601_000000412084_00104_40238_3138.N1	10-NOV-2009 03:46:01	Bright	41.000	36	50Alp UMa	1.8000	6300.0	82	40238	No
32	GOM_TRA_1PNPDE20091110_034739_000000392084_00104_40238_3139.N1	10-NOV-2009 03:47:39	Bright	38.500	82	48Bet UMa	2.3650	10600.	77	40238	No
33	GOM_TRA_1PNPDE20091110_035133_000000422084_00104_40238_3140.N1	10-NOV-2009 03:51:33	Bright	42.000	174	52Psi UMa	3.0040	4400.0	84	40238	No
34	GOM_TRA_1PNPDE20091110_035936_000000502084_00104_40238_3141.N1	10-NOV-2009 03:59:36	Bright	49.500	96	68Del Leo	2.5600	9300.0	99	40238	No
35	GOM_TRA_1PNPDE20091110_042704_000000472084_00105_40239_3142.N1	10-NOV-2009 04:27:04	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	40239	No
36	GOM_TRA_1PNPDE20091110_043203_000000582084_00105_40239_3143.N1	10-NOV-2009 04:32:03	Dark	57.500	2	Alp Car	-0.73600	7000.0	115	40239	No
37	GOM_TRA_1PNPDE20091110_044857_000000572084_00105_40239_3144.N1	10-NOV-2009 04:48:57	Straylight	57.000	165	34Gam Eri	2.9500	3200.0	114	40239	No
38	GOM_TRA_1PNPDE20091110_045444_000000492084_00105_40239_3145.N1	10-NOV-2009 04:54:44	Tw_i_and_stray	49.000	94	92Alp Cet	2.5260	3100.0	98	40239	No
39	GOM_TRA_1PNPDE20091110_045924_000000372084_00105_40239_3146.N1	10-NOV-2009 04:59:24	Bright	37.000	105	6Bet Ari	2.6450	8900.0	74	40239	No
40	GOM_TRA_1PNPDE20091110_050332_000000382084_00105_40239_3147.N1	10-NOV-2009 05:03:32	Bright	37.500	173	4Bet Tri	3.0040	8900.0	75	40239	No
41	GOM_TRA_1PNPDE20091110_050535_000000542084_00105_40239_3148.N1	10-NOV-2009 05:05:35	Bright	54.000	73	57Gam1And	2.2600	13100.	108	40239	No
42	GOM_TRA_1PNPDE20091110_050742_000000382084_00105_40239_3149.N1	10-NOV-2009 05:07:42	Bright	38.000	149	45Eps Per	2.8880	30000.	76	40239	No
43	GOM_TRA_1PNPDE20091110_050909_000000422084_00105_40239_3150.N1	10-NOV-2009 05:09:09	Bright	42.000	35	33Alp Per	1.7950	6250.0	84	40239	No
44	GOM_TRA_1PNPDE20091110_052637_000000462084_00105_40239_3144.N1	10-NOV-2009 05:26:37	Bright	45.500	36	50Alp UMa	1.8000	6300.0	91	40239	No
45	GOM_TRA_1PNPDE20091110_052815_000000422084_00105_40239_3145.N1	10-NOV-2009 05:28:15	Bright	42.000	82	48Bet UMa	2.3650	10600.	84	40239	No
46	GOM_TRA_1PNPDE20091110_053209_000000392084_00105_40239_3146.N1	10-NOV-2009 05:32:09	Bright	39.000	174	52Psi UMa	3.0040	4400.0	78	40239	No
47	GOM_TRA_1PNPDE20091110_054012_000000442084_00105_40239_3147.N1	10-NOV-2009 05:40:12	Bright	43.500	96	68Del Leo	2.5600	9300.0	87	40239	No
48	GOM_TRA_1PNPDE20091110_060741_000000472084_00106_40240_3148.N1	10-NOV-2009 06:07:41	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	40240	No
49	GOM_TRA_1PNPDE20091110_061240_000000482084_00106_40240_3149.N1	10-NOV-2009 06:12:40	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	40240	No
50	GOM_TRA_1PNPDE20091110_062933_000000572084_00106_40240_3150.N1	10-NOV-2009 06:29:33	Straylight	57.000	165	34Gam Eri	2.9500	3200.0	114	40240	No
51	GOM_TRA_1PNPDE20091110_063520_000000482084_00106_40240_3151.N1	10-NOV-2009 06:35:20	Tw_i_and_stray	47.500	94	92Alp Cet	2.5260	3100.0	95	40240	No
52	GOM_TRA_1PNPDE20091110_063959_000000372084_00106_40240_3152.N1	10-NOV-2009 06:39:59	Bright	37.000	105	6Bet Ari	2.6450	8900.0	74	40240	No
53	GOM_TRA_1PNPDE20091110_064408_000000372084_00106_40240_3153.N1	10-NOV-2009 06:44:08	Bright	36.500	173	4Bet Tri	3.0040	8900.0	73	40240	No
54	GOM_TRA_1PNPDE20091110_064611_000000372084_00106_40240_3154.N1	10-NOV-2009 06:46:11	Bright	37.000	73	57Gam1And	2.2600	13100.	74	40240	No
55	GOM_TRA_1PNPDE20091110_064817_000000442084_00106_40240_3155.N1	10-NOV-2009 06:48:17	Bright	44.000	149	45Eps Per	2.8880	30000.	88	40240	No
56	GOM_TRA_1PNPDE20091110_064945_000000422084_00106_40240_3156.N1	10-NOV-2009 06:49:45	Bright	41.500	35	33Alp Per	1.7950	6250.0	83	40240	No
57	GOM_TRA_1PNPDE20091110_195421_000000542084_00114_40248_3187.N1	10-NOV-2009 19:54:21	Straylight	53.500	165	34Gam Eri	2.9500	3200.0	107	40248	No
58	GOM_TRA_1PNPDE20091110_200006_000000492084_00114_40248_3188.N1	10-NOV-2009 20:00:06	Tw_i_and_stray	49.000	94	92Alp Cet	2.5260	3100.0	98	40248	No
59	GOM_TRA_1PNPDE20091110_200534_000000392084_00114_40248_3189.N1	10-NOV-2009 20:05:34	Bright	39.000	50	13Alp Ari	2.0070	4250.0	78	40248	No
60	GOM_TRA_1PNPDE20091110_200854_000000372084_00114_40248_3190.N1	10-NOV-2009 20:08:54	Bright	37.000	173	4Bet Tri	3.0040	8900.0	74	40248	No
61	GOM_TRA_1PNPDE20091110_201058_000000362084_00114_40248_3191.N1	10-NOV-2009 20:10:58	Bright	35.500	73	57Gam1And	2.2600	13100.	71	40248	No
62	GOM_TRA_1PNPDE20091110_201259_000000462084_00114_40248_3192.N1	10-NOV-2009 20:12:59	Bright	45.500	149	45Eps Per	2.8880	30000.	91	40248	No
63	GOM_TRA_1PNPDE20091110_201428_000000422084_00114_40248_3193.N1	10-NOV-2009 20:14:28	Bright	41.500	35	33Alp Per	1.7950	6250.0	83	40248	No
64	GOM_TRA_1PNPDE20091110_203159_000000452084_00114_40248_3194.N1	10-NOV-2009 20:31:59	Bright	45.000	36	50Alp UMa	1.8000	6300.0	90	40248	No
65	GOM_TRA_1PNPDE20091110_203337_000000412084_00114_40248_3195.N1	10-NOV-2009 20:33:37	Bright	41.000	82	48Bet UMa	2.3650	10600.	82	40248	No
66	GOM_TRA_1PNPDE20091110_203732_000000432084_00114_40248_3196.N1	10-NOV-2009 20:37:32	Bright	42.500	174	52Psi UMa	3.0040	4400.0	85	40248	No
67	GOM_TRA_1PNPDE20091110_204539_000000642084_00114_40248_3197.N1	10-NOV-2009 20:45:39	Bright	63.500	96	68Del Leo	2.5600	9300.0	127	40248	No
68	GOM_TRA_1PNPDE20091110_211313_000000472084_00115_40249_3192.N1	10-NOV-2009 21:13:13	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	40249	No
69	GOM_TRA_1PNPDE20091110_211810_000000612084_00115_40249_3193.N1	10-NOV-2009 21:18:10	Dark	60.500	2	Alp Car	-0.73600	7000.0	121	40249	No
70	GOM_TRA_1PNPDE20091110_213457_000000532084_00115_40249_3194.N1	10-NOV-2009 21:34:57	Straylight	53.000	165	34Gam Eri	2.9500	3200.0	106	40249	No
71	GOM_TRA_1PNPDE20091110_214042_000000492084_00115_40249_3195.N1	10-NOV-2009 21:40:42	Tw_i_and_stray	49.000	94	92Alp Cet	2.5260	3100.0	98	40249	No



72	GOM_TRA_1PNPDE20091110_214610_000000402084_00115_40249_3196.N1	10-NOV-2009 21:46:10	Bright	40.000	50	13Alp Ari	2.0070	4250.0	80	40249	No
73	GOM_TRA_1PNPDE20091110_214930_000000372084_00115_40249_3197.N1	10-NOV-2009 21:49:30	Bright	37.000	173	4Bet Tri	3.0040	8900.0	74	40249	No
74	GOM_TRA_1PNPDE20091110_215134_000000362084_00115_40249_3198.N1	10-NOV-2009 21:51:34	Bright	35.500	73	57Gam1And	2.2600	13100.	71	40249	No
75	GOM_TRA_1PNPDE20091110_215334_000000472084_00115_40249_3199.N1	10-NOV-2009 21:53:34	Bright	46.500	149	45Eps Per	2.8880	30000.	93	40249	No
76	GOM_TRA_1PNPDE20091110_215504_000000412084_00115_40249_3200.N1	10-NOV-2009 21:55:04	Bright	40.500	35	33Alp Per	1.7950	6250.0	81	40249	No
77	GOM_TRA_1PNPDE20091110_221235_000000452084_00115_40249_3201.N1	10-NOV-2009 22:12:35	Bright	45.000	36	50Alp UMa	1.8000	6300.0	90	40249	No
78	GOM_TRA_1PNPDE20091110_221412_000000592084_00115_40249_3202.N1	10-NOV-2009 22:14:12	Bright	59.000	82	48Bet UMa	2.3650	10600.	118	40249	No
79	GOM_TRA_1PNPDE20091110_221808_000000422084_00115_40249_3203.N1	10-NOV-2009 22:18:08	Bright	42.000	174	52Psi UMa	3.0040	4400.0	84	40249	No
80	GOM_TRA_1PNPDE20091110_222615_000000642084_00115_40249_3204.N1	10-NOV-2009 22:26:15	Bright	63.500	96	68Del Leo	2.5600	9300.0	127	40249	No
81	GOM_TRA_1PNPDE20091110_225349_000000492084_00116_40250_3197.N1	10-NOV-2009 22:53:49	Dark	48.500	34	Gam2Vel	1.7930	23000.	97	40250	No
82	GOM_TRA_1PNPDE20091110_225846_000000552084_00116_40250_3198.N1	10-NOV-2009 22:58:46	Dark	55.000	2	Alp Car	-0.73600	7000.0	110	40250	No
83	GOM_TRA_1PNPDE20091110_231532_000000542084_00116_40250_3199.N1	10-NOV-2009 23:15:32	Straylight	53.500	165	34Gam Eri	2.9500	3200.0	107	40250	No
84	GOM_TRA_1PNPDE20091110_232117_000000492084_00116_40250_3200.N1	10-NOV-2009 23:21:17	Twi_and_stray	49.000	94	92Alp Cet	2.5260	3100.0	98	40250	No
85	GOM_TRA_1PNPDE20091110_232645_000000412084_00116_40250_3201.N1	10-NOV-2009 23:26:45	Bright	41.000	50	13Alp Ari	2.0070	4250.0	82	40250	No
86	GOM_TRA_1PNPDE20091110_233005_000000362084_00116_40250_3202.N1	10-NOV-2009 23:30:05	Bright	35.500	173	4Bet Tri	3.0040	8900.0	71	40250	No
87	GOM_TRA_1PNPDE20091110_233209_000000362084_00116_40250_3203.N1	10-NOV-2009 23:32:09	Bright	36.000	73	57Gam1And	2.2600	13100.	72	40250	No
88	GOM_TRA_1PNPDE20091110_233409_000000432084_00116_40250_3204.N1	10-NOV-2009 23:34:09	Bright	43.000	149	45Eps Per	2.8880	30000.	86	40250	No
89	GOM_TRA_1PNPDE20091110_233540_000000402084_00116_40250_3205.N1	10-NOV-2009 23:35:40	Bright	40.000	175	39Del Per	3.0100	19400.	80	40250	No
90	GOM_TRA_1PNPDE20091110_235310_000000452084_00116_40250_3206.N1	10-NOV-2009 23:53:10	Bright	44.500	36	50Alp UMa	1.8000	6300.0	89	40250	No
91	GOM_TRA_1PNPDE20091110_235448_000000422084_00116_40250_3207.N1	10-NOV-2009 23:54:48	Bright	41.500	82	48Bet UMa	2.3650	10600.	83	40250	No
92	GOM_TRA_1PNPDE20091110_235843_000000462084_00116_40250_3208.N1	10-NOV-2009 23:58:43	Bright	45.500	174	52Psi UMa	3.0040	4400.0	91	40250	No

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



#### 4. Overview of dark signal processing per product

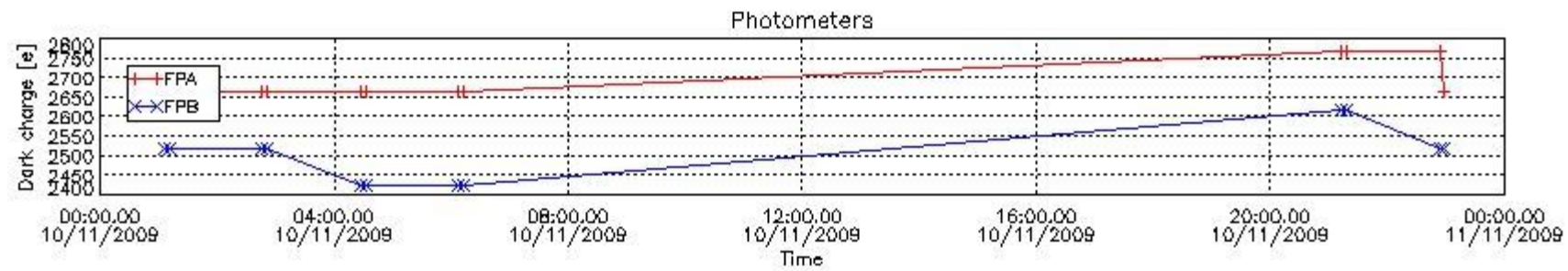
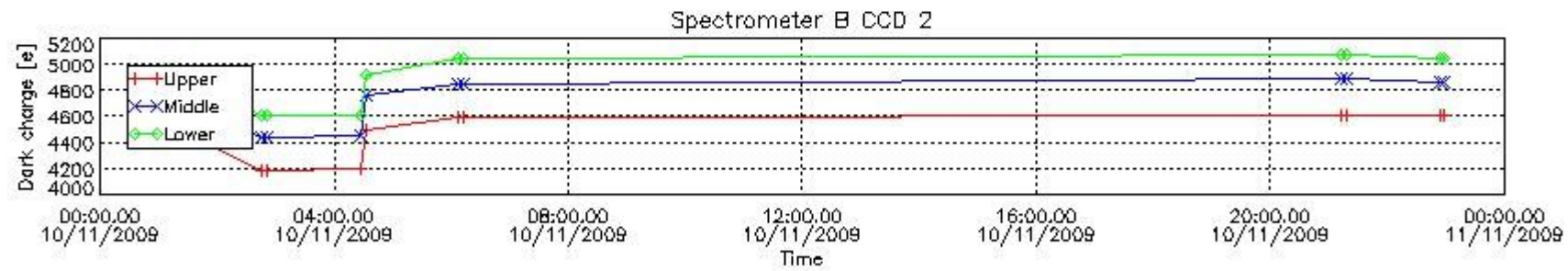
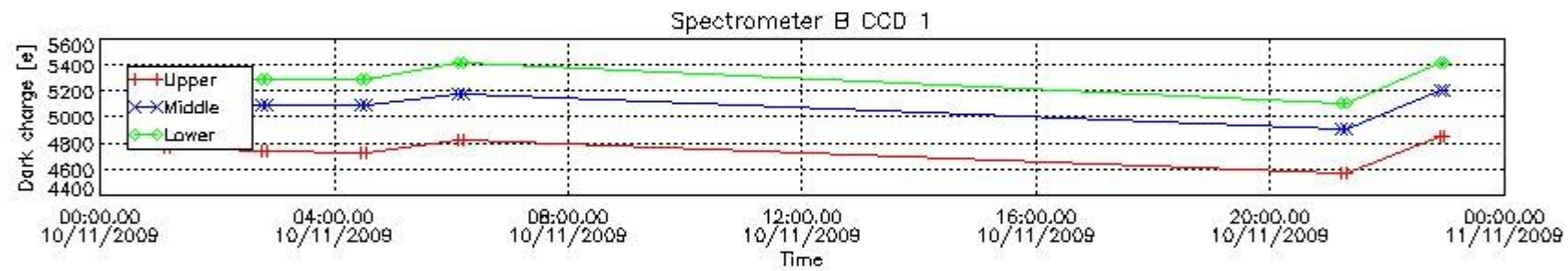
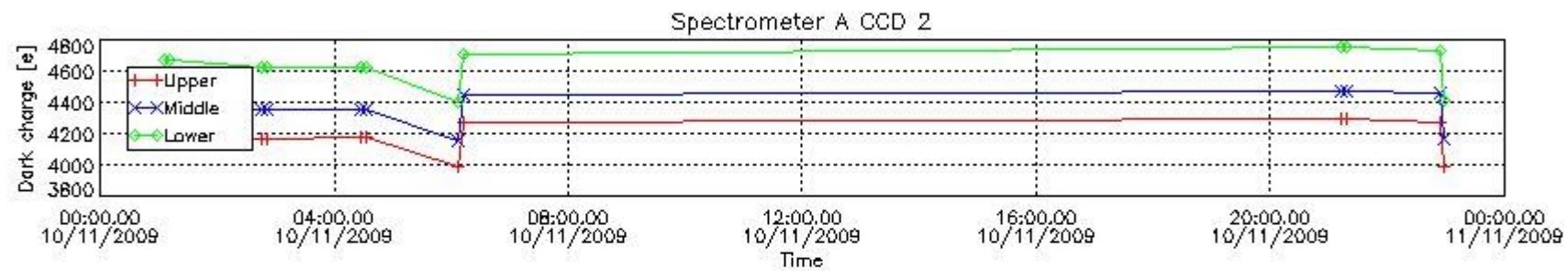
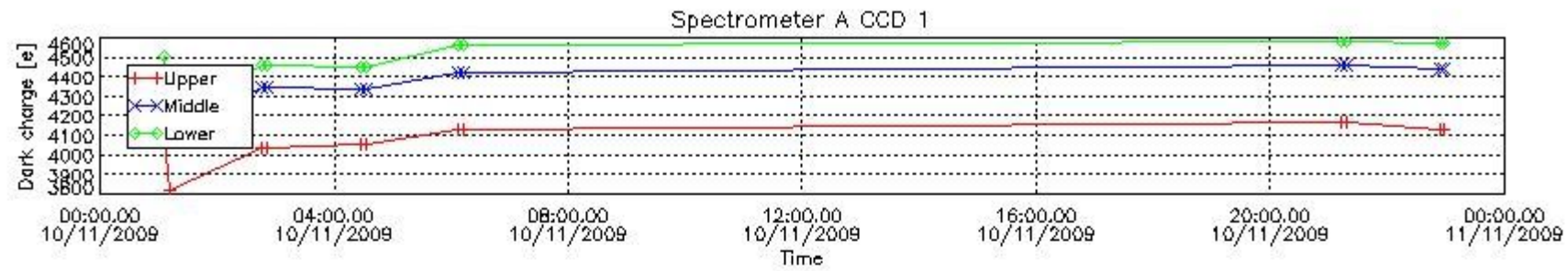
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20091110_195421_000000542084_00114_40248_3187.N1	DC map used
GOM_TRA_1PNPDE20091110_200006_000000492084_00114_40248_3188.N1	DC map used
GOM_TRA_1PNPDE20091110_200534_000000392084_00114_40248_3189.N1	DC map used
GOM_TRA_1PNPDE20091110_200854_000000372084_00114_40248_3190.N1	DC map used
GOM_TRA_1PNPDE20091110_201058_000000362084_00114_40248_3191.N1	DC map used
GOM_TRA_1PNPDE20091110_201259_000000462084_00114_40248_3192.N1	DC map used
GOM_TRA_1PNPDE20091110_201428_000000422084_00114_40248_3193.N1	DC map used
GOM_TRA_1PNPDE20091110_203159_000000452084_00114_40248_3194.N1	DC map used
GOM_TRA_1PNPDE20091110_203337_000000412084_00114_40248_3195.N1	DC map used
GOM_TRA_1PNPDE20091110_203732_000000432084_00114_40248_3196.N1	DC map used
GOM_TRA_1PNPDE20091110_204539_000000642084_00114_40248_3197.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

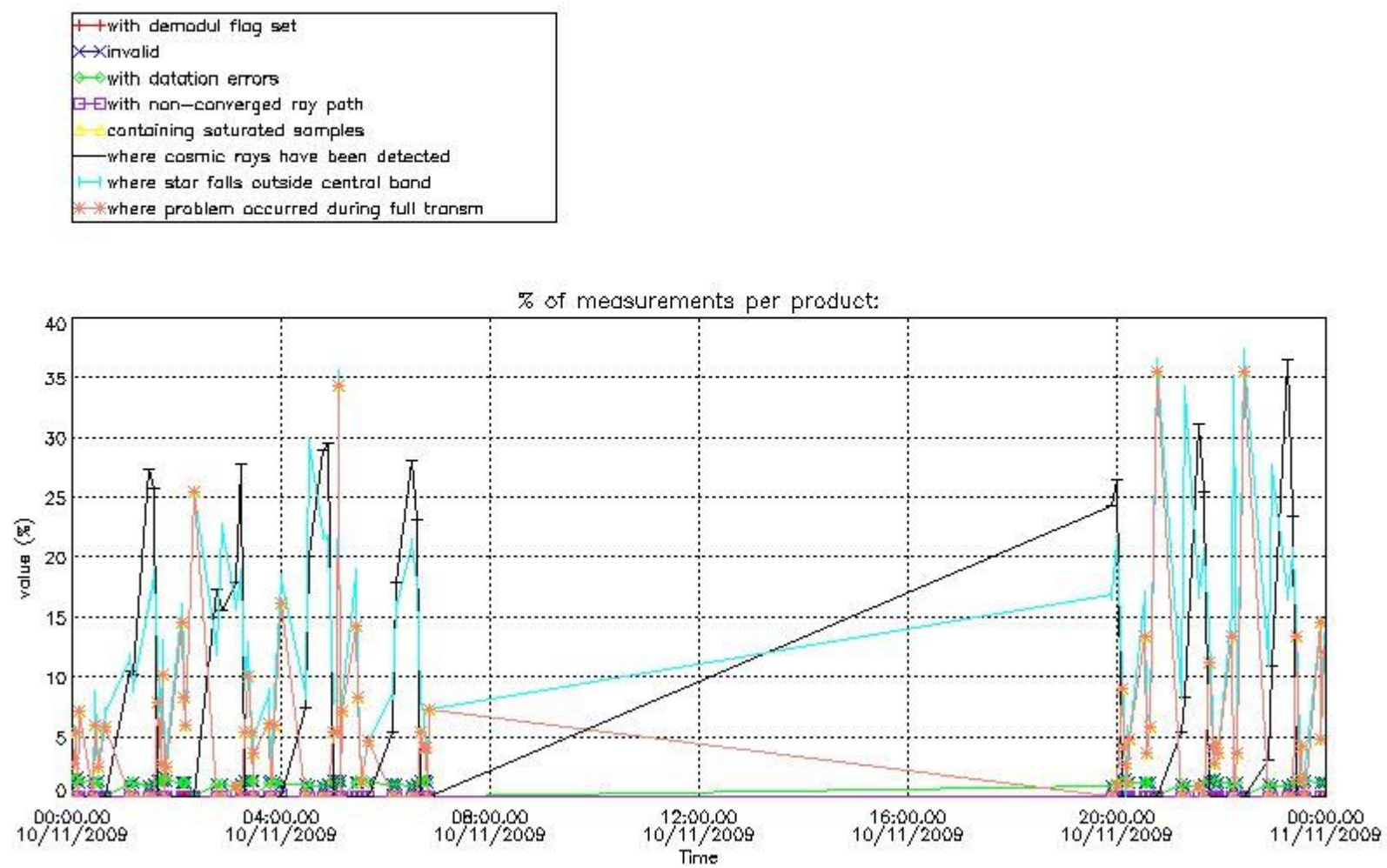
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

### 5.1 Percentage of products during reporting period with:

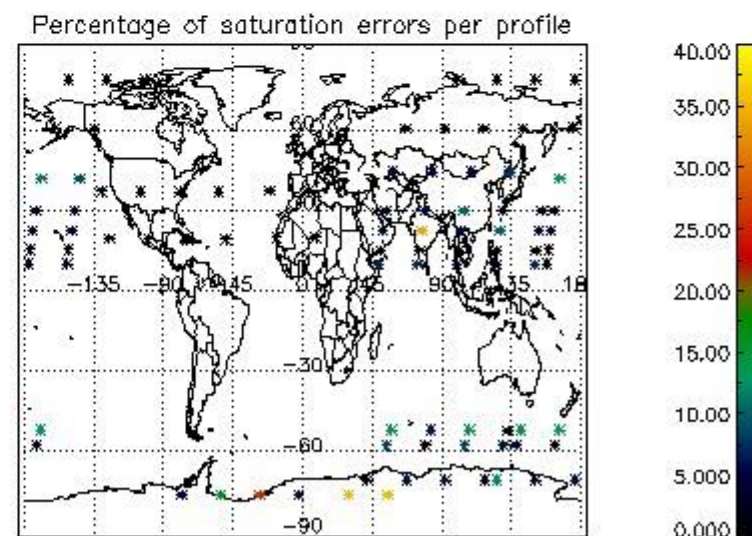
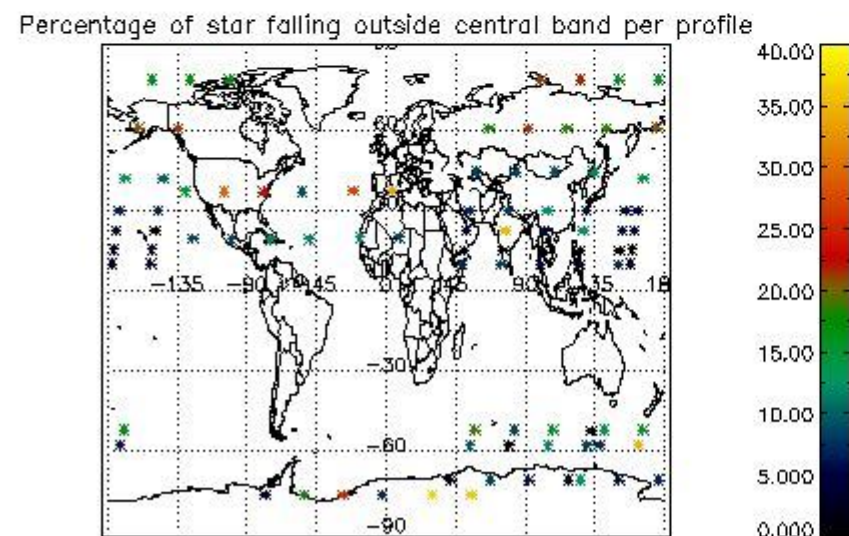
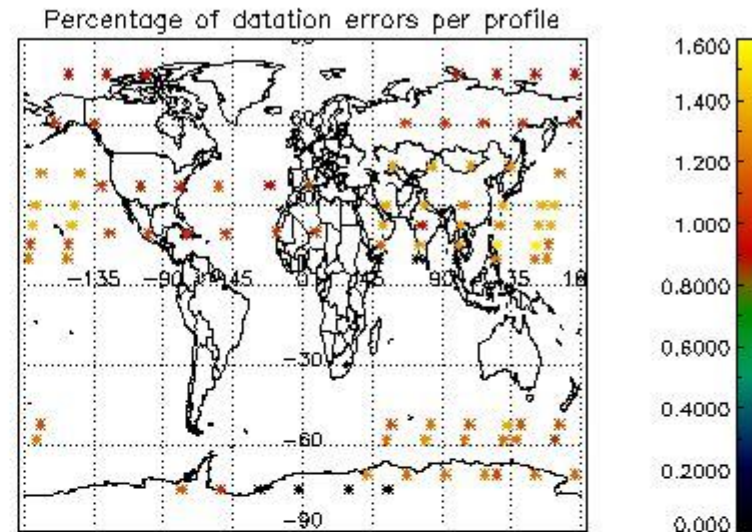
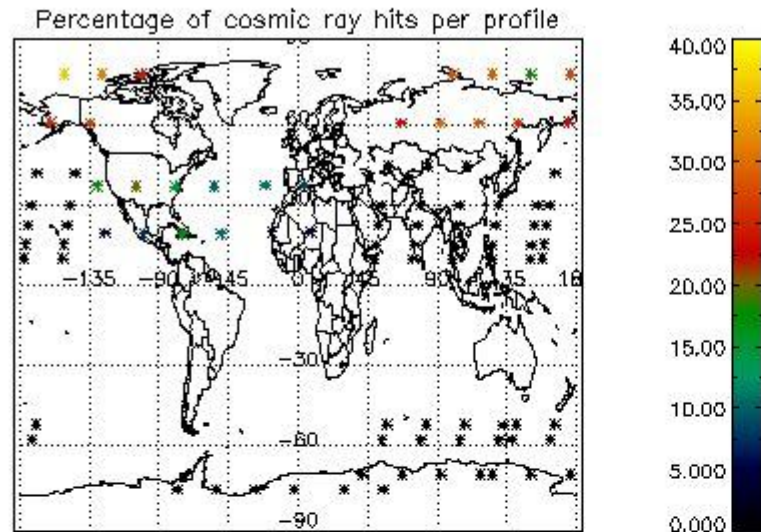


At least one measurement with demodulation flag set:	21.7391 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 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)

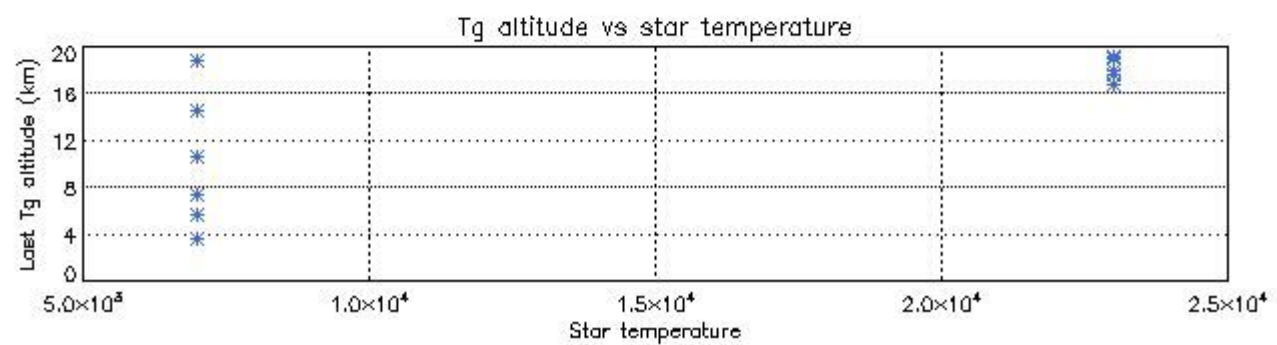
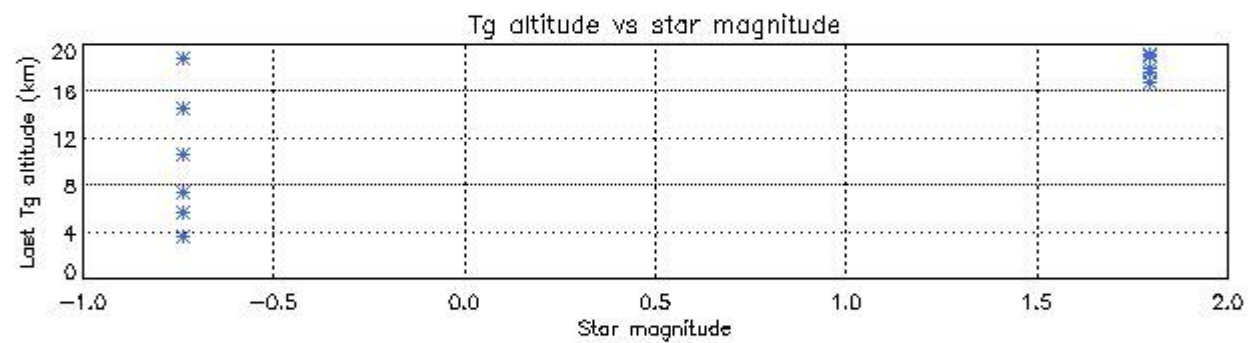
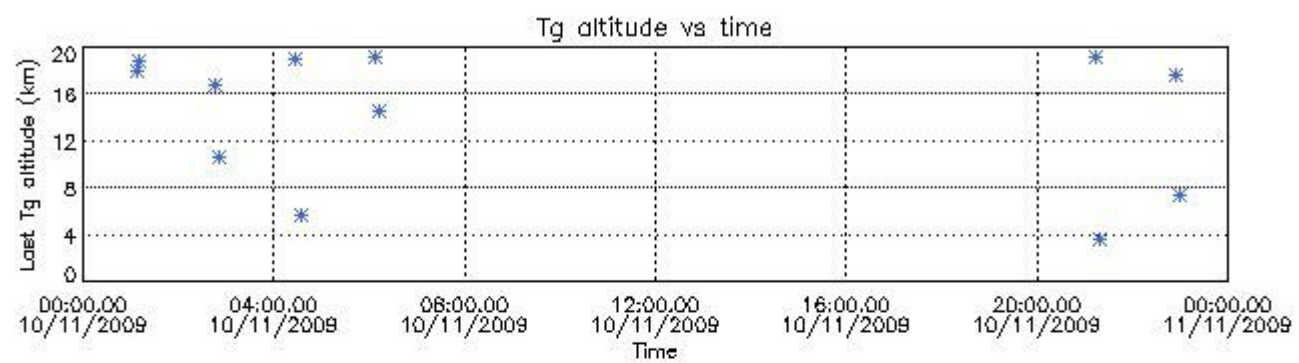
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.161	19.536	NaN
St. deviation:	5.8177	6.4471	NaN
Maximum:	19.178	40.518	NaN
Minimum:	3.5231	3.5745	NaN
Number of data:	12.000	64.000	NaN

### 6.2 Plot for DARK limb products

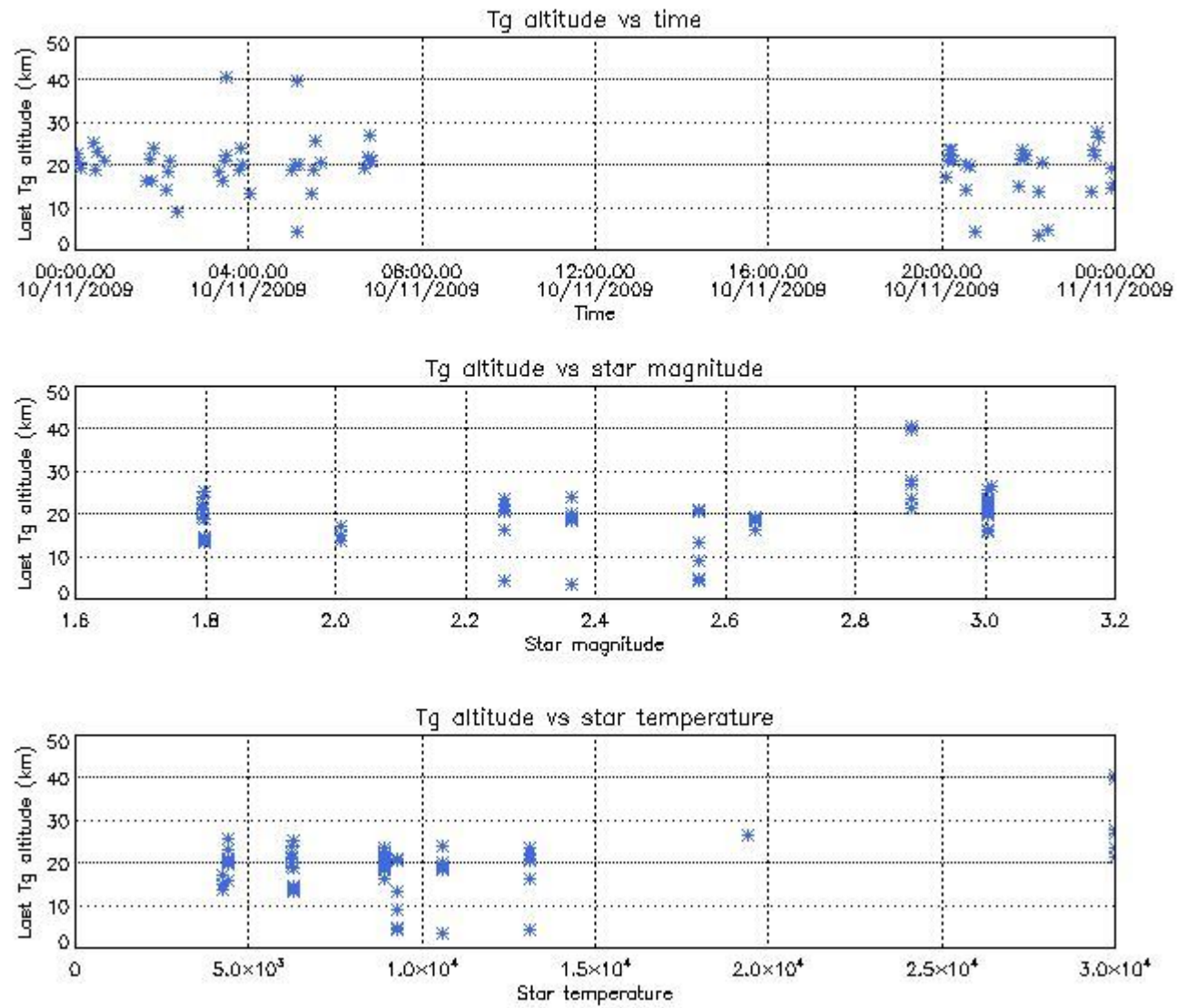


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost

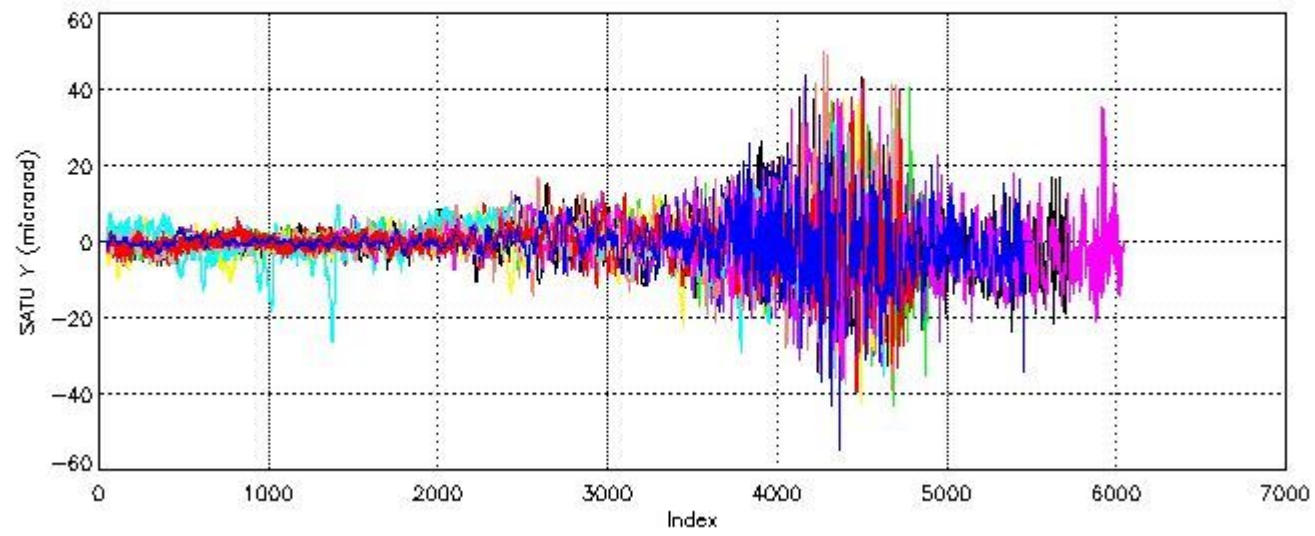
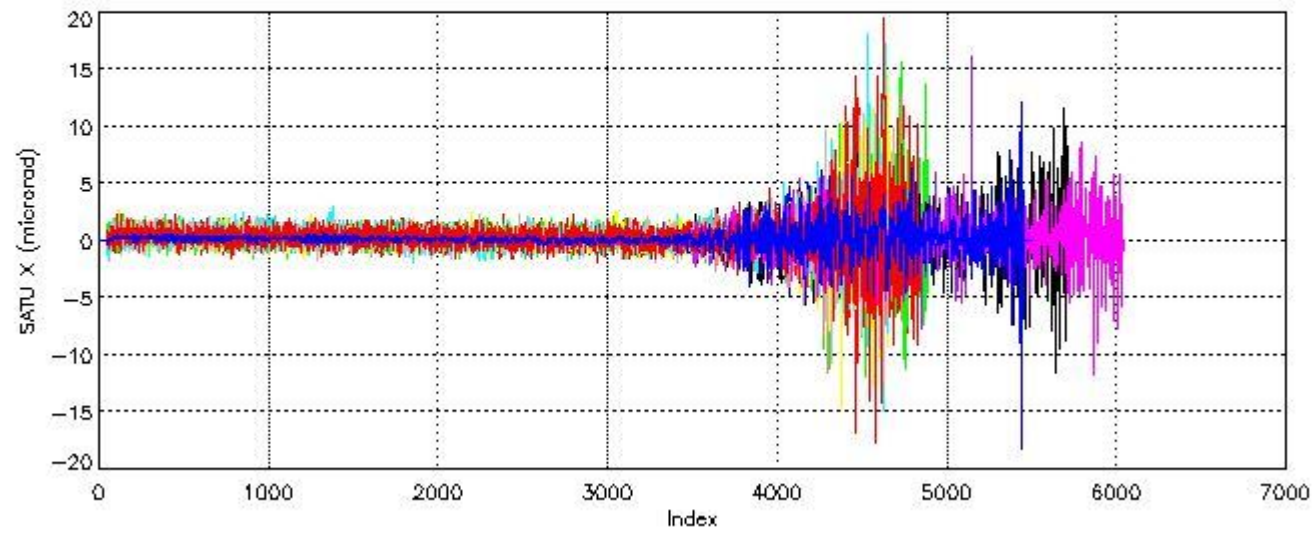


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.29564	-0.71291	0.18578	-0.50465
St. deviation:	0.35652	1.8491	0.92312	2.1953
Maximum:	2.7000	7.4000	7.9000	10.600
Minimum:	-1.8000	-18.200	-5.8000	-20.000



Number of data:	12750.	12750.	60000.	60000.
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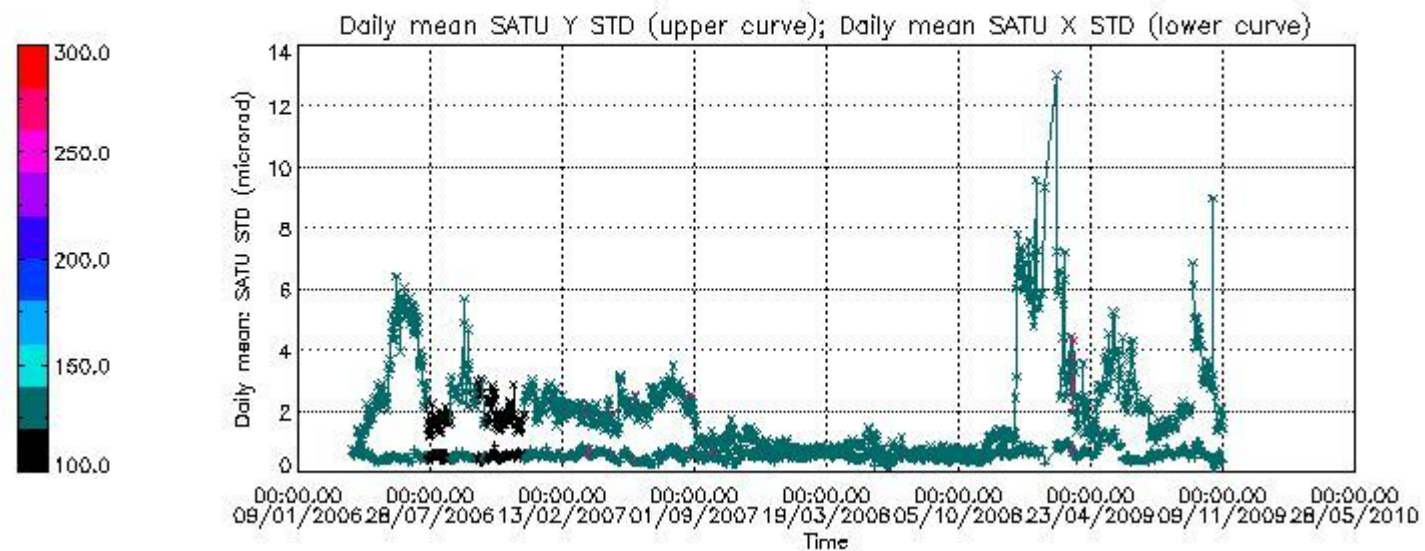
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

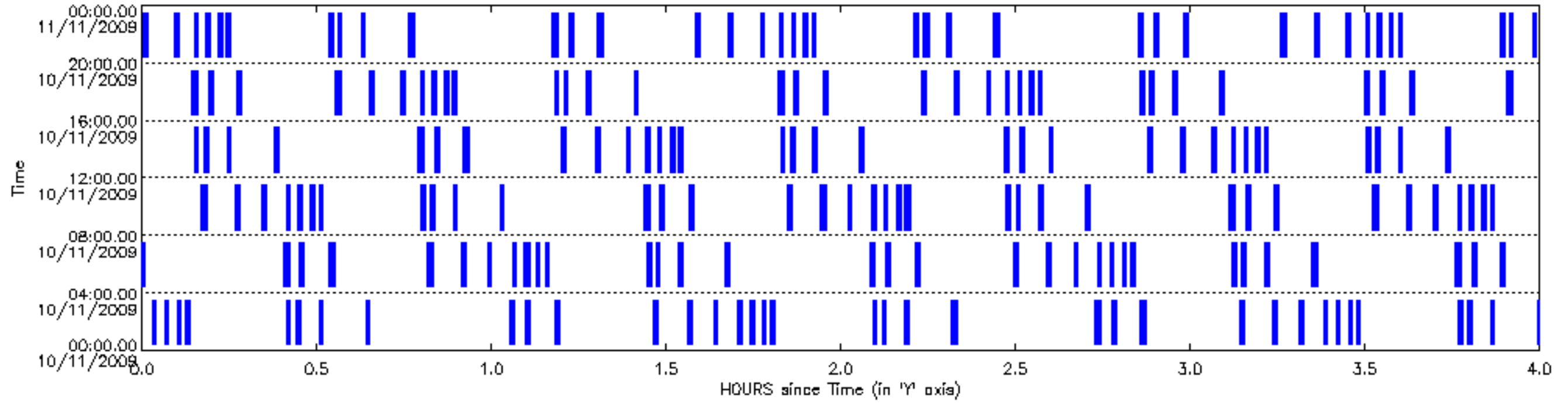
Lower curve: STD of SATU X axis

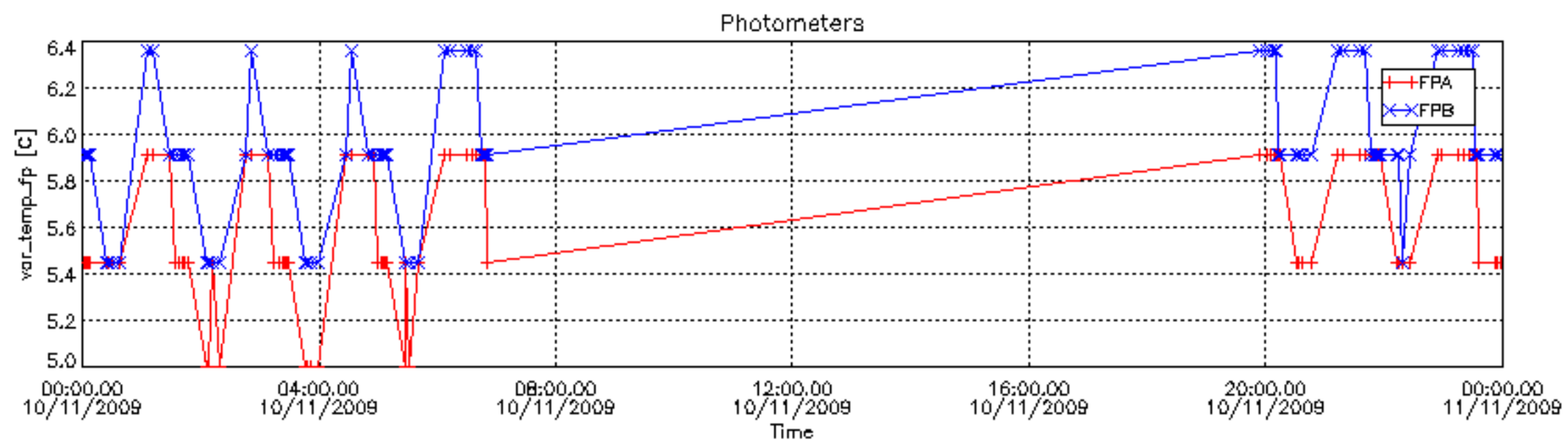
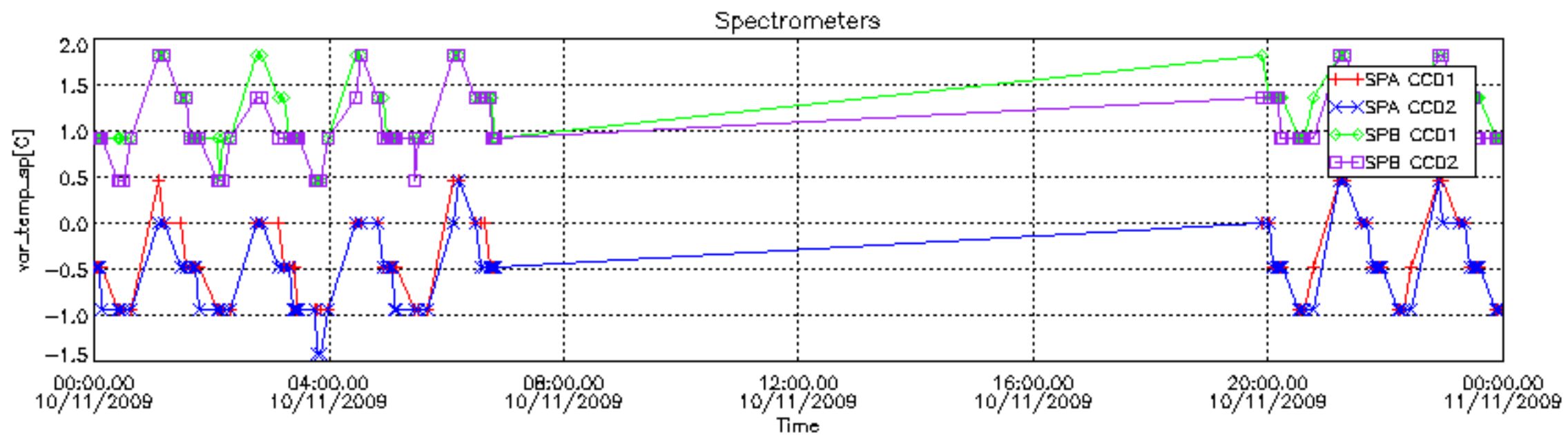


### 8. Auxiliary Data Files used for the production reported in section 2.4

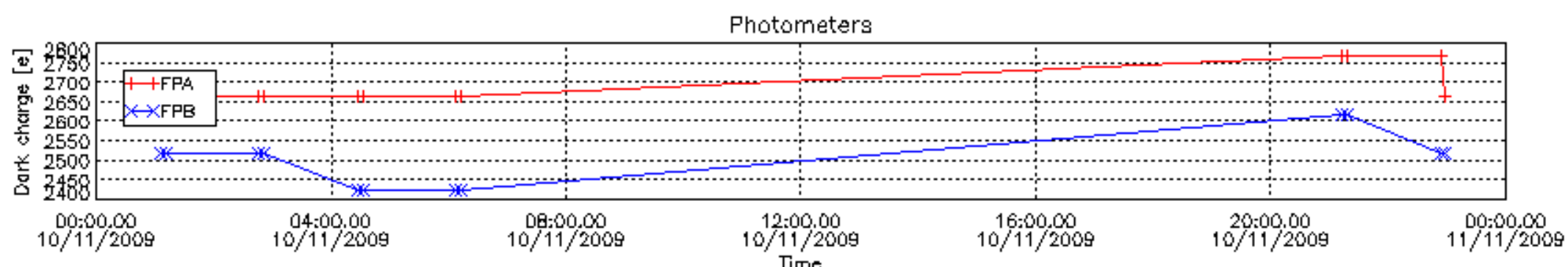
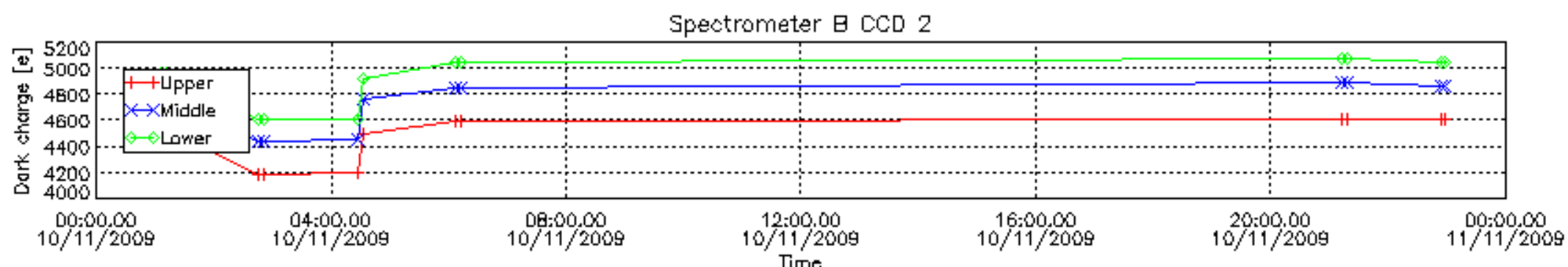
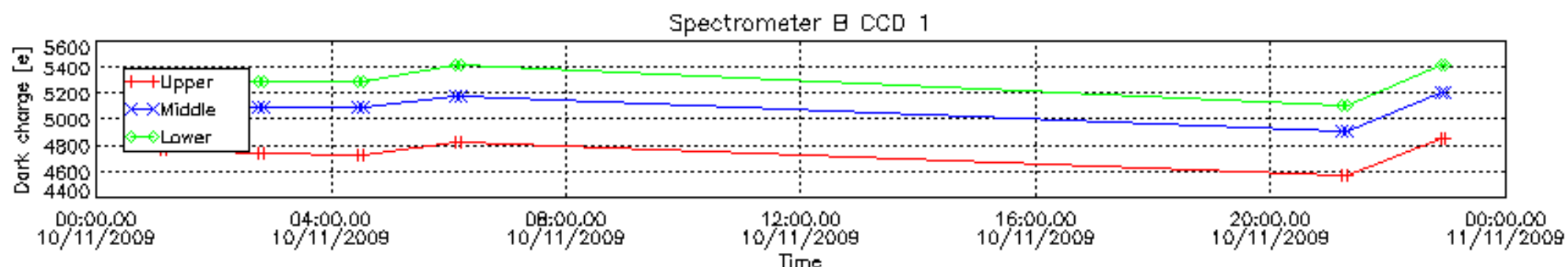
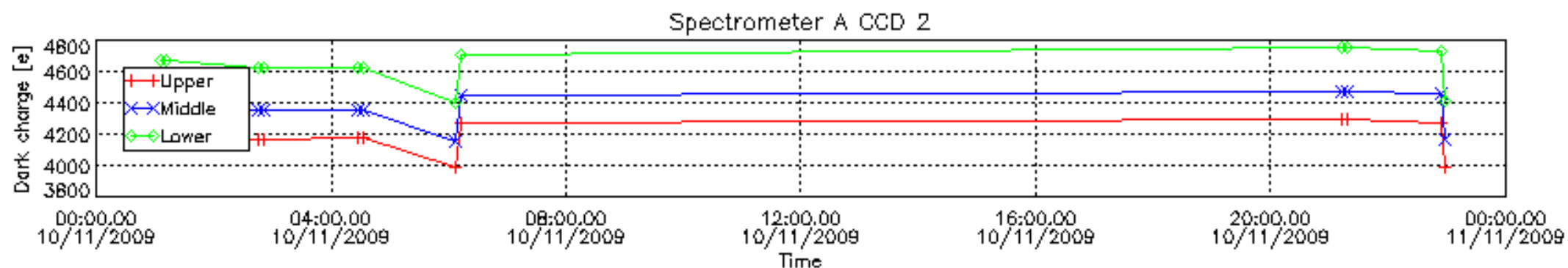
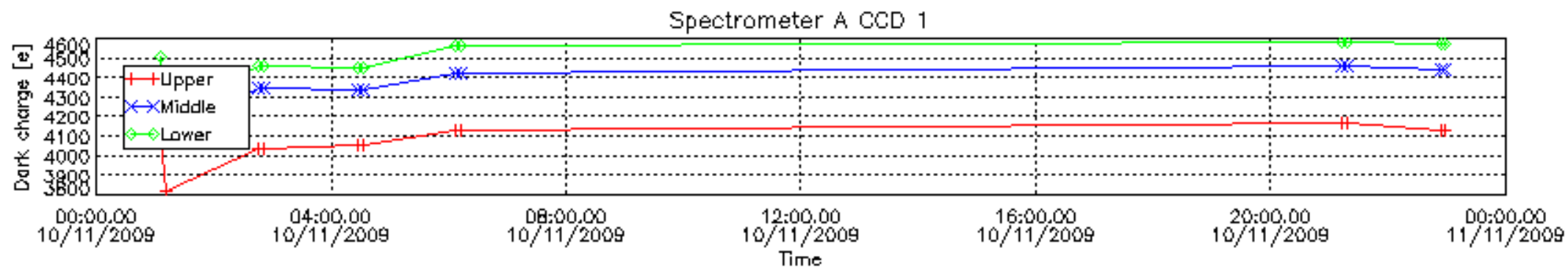
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

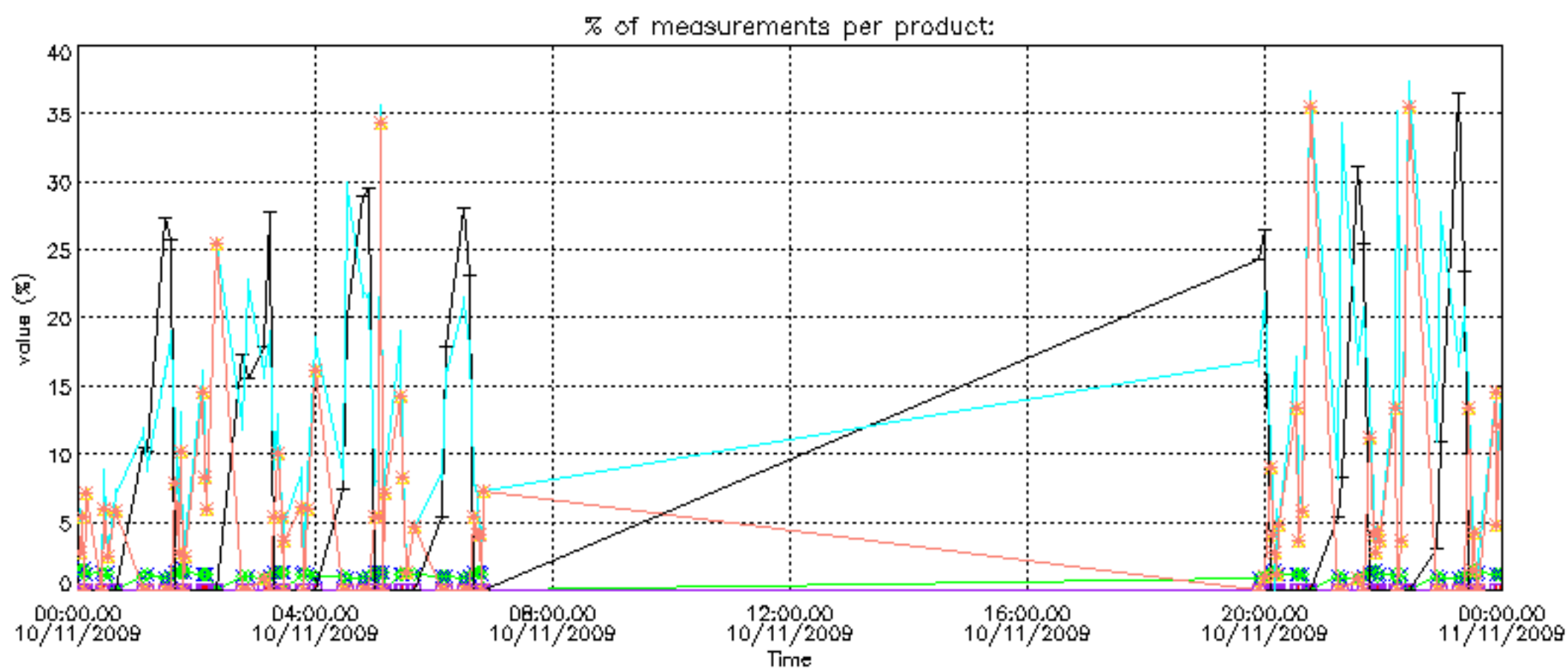
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	10-NOV-2009 00:01:44
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091106_091155_20091104_000000_20100101_000000	1	10-NOV-2009 00:01:44
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	10-NOV-2009 00:01:44
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	10-NOV-2009 00:01:44
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	10-NOV-2009 00:01:44
ECMWF_FILE	AUX_ECF_AXNECM20091109_064112_20091109_210000_20091110_090000	1	10-NOV-2009 00:01:44
ECMWF_FILE	AUX_ECF_AXNECM20091109_182114_20091110_030000_20091110_150000	31	10-NOV-2009 03:46:01
ECMWF_FILE	AUX_ECA_AXNECM20091110_062112_20091109_210000_20091110_090000	44	10-NOV-2009 05:26:37
ECMWF_FILE	AUX_ECA_AXNECM20091110_182112_20091110_090000_20091110_210000	57	10-NOV-2009 19:54:21
ECMWF_FILE	AUX_ECF_AXNECM20091110_064113_20091110_210000_20091111_090000	68	10-NOV-2009 21:13:13
OPTIONAL_ECMWF_FILE	MISSING	1	10-NOV-2009 00:01:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091109_230501_000057382084_00101_40235_9134.N1	1	10-NOV-2009 00:01:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091110_004558_000054192084_00102_40236_9135.N1	9	10-NOV-2009 01:05:50
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091110_010111_20091109_195842_20091119_212454	22	10-NOV-2009 02:46:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091110_033559_000057382084_00104_40238_9137.N1	31	10-NOV-2009 03:46:01
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091110_010111_20091109_195842_20091119_212454	44	10-NOV-2009 05:26:37
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091110_193740_000038262084_00114_40248_9139.N1	57	10-NOV-2009 19:54:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091110_204644_000060572084_00114_40248_9140.N1	68	10-NOV-2009 21:13:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091110_223300_000057382084_00115_40249_9141.N1	81	10-NOV-2009 22:53:49



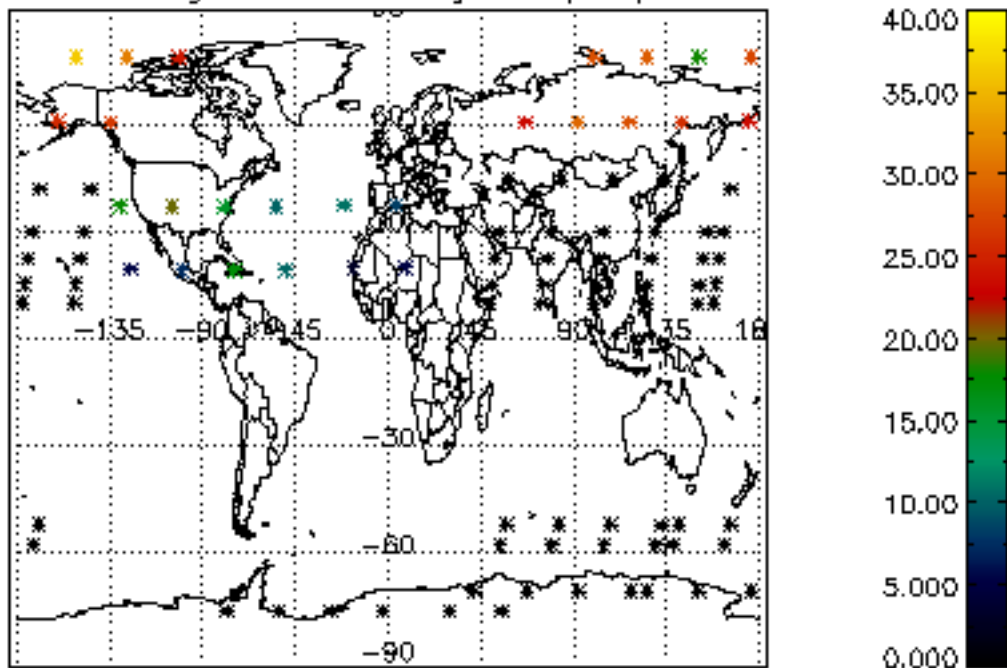




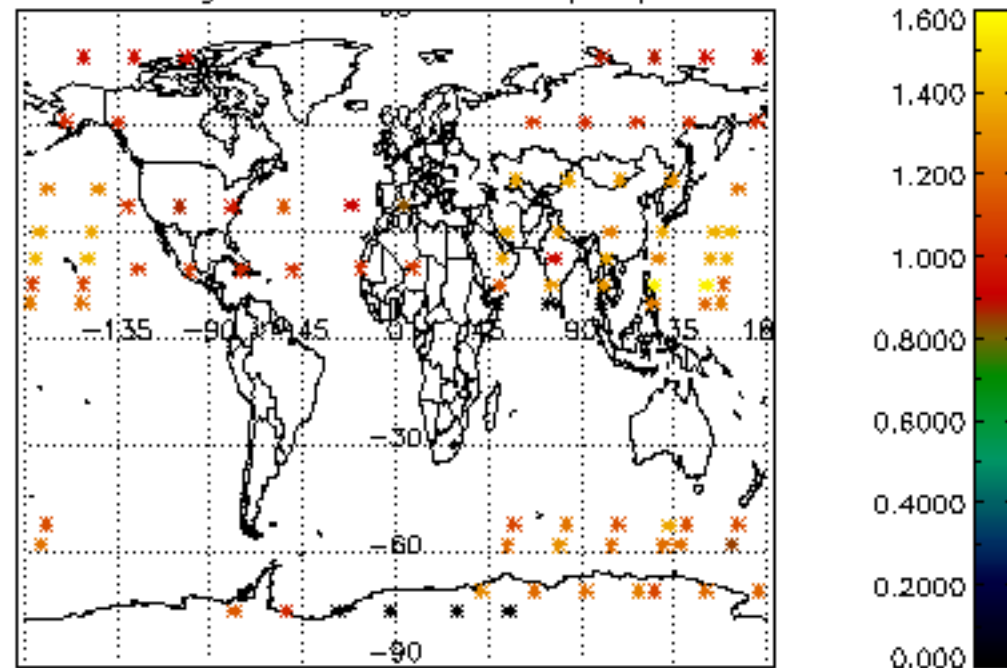




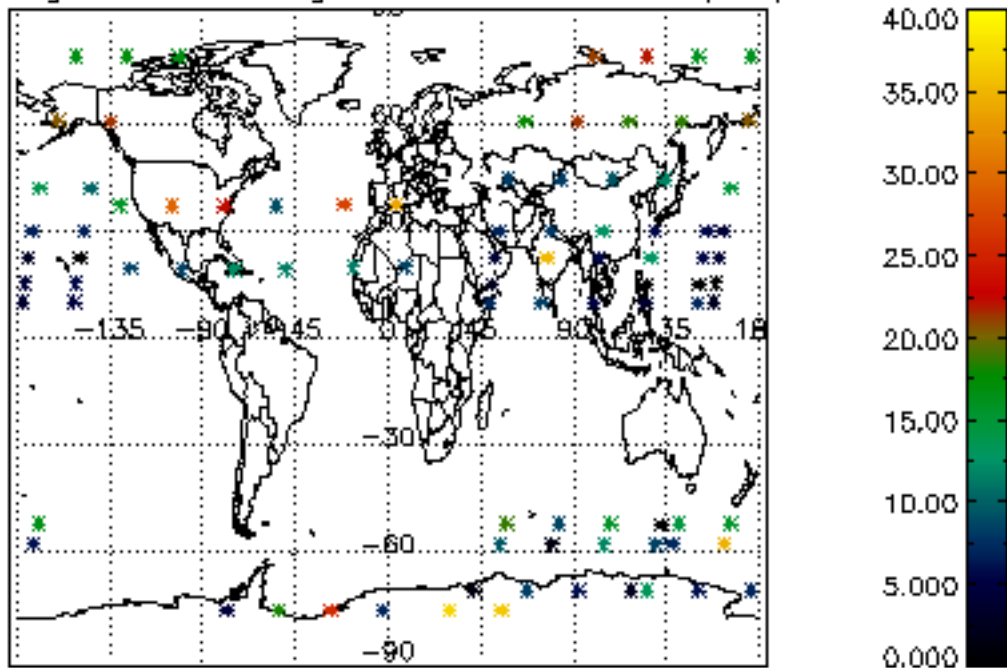
Percentage of cosmic ray hits per profile



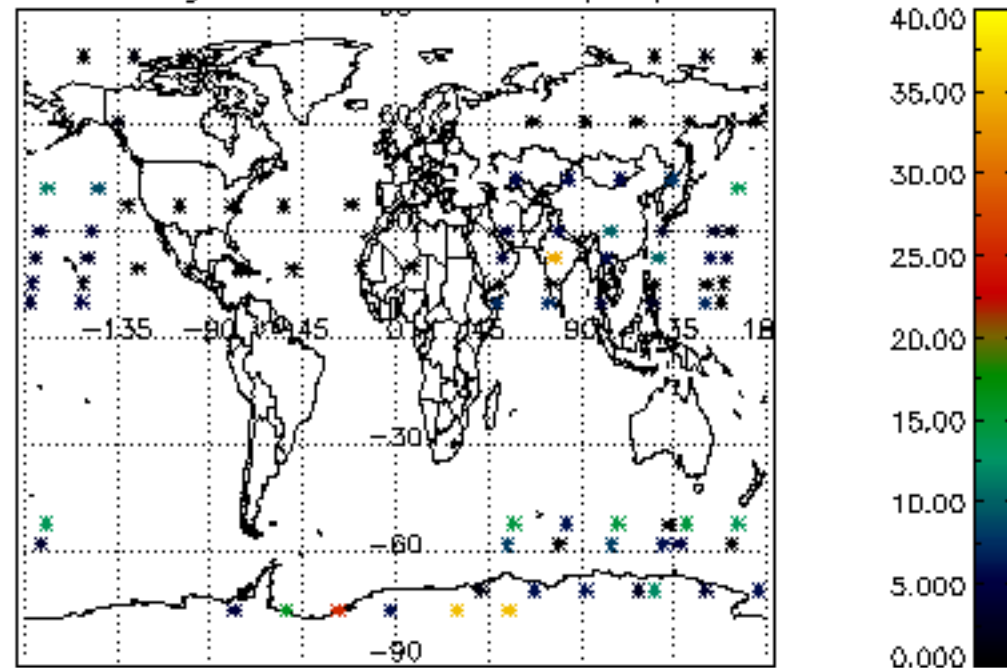
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

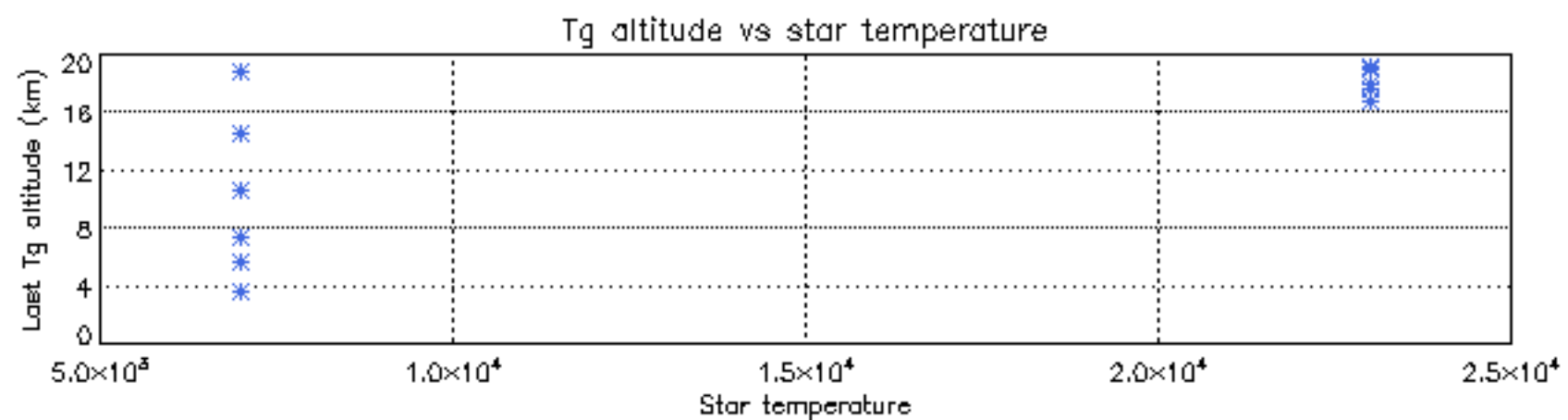
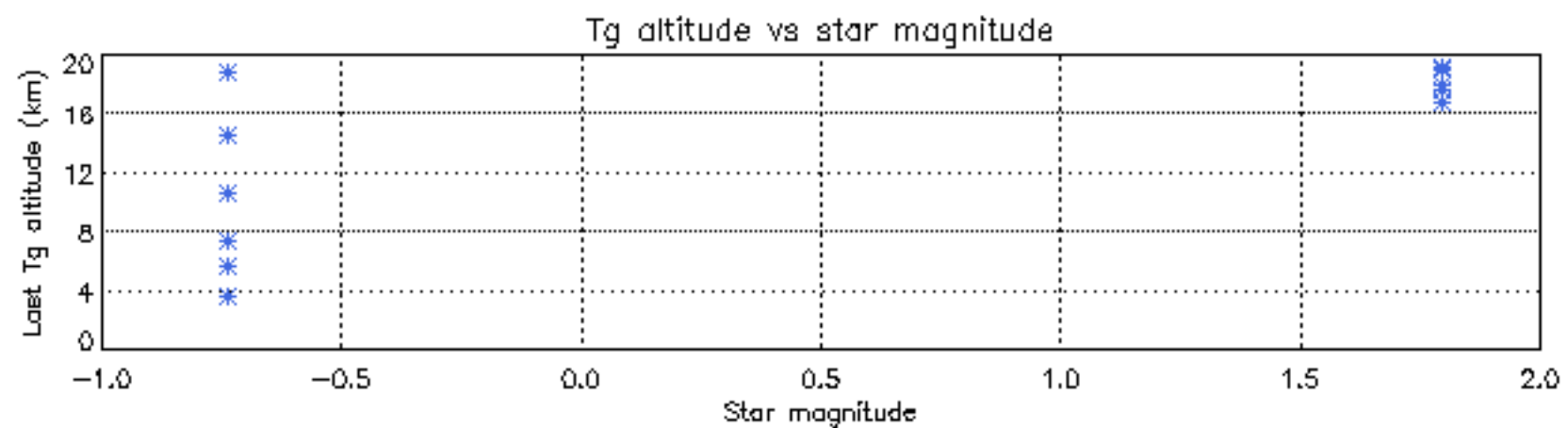
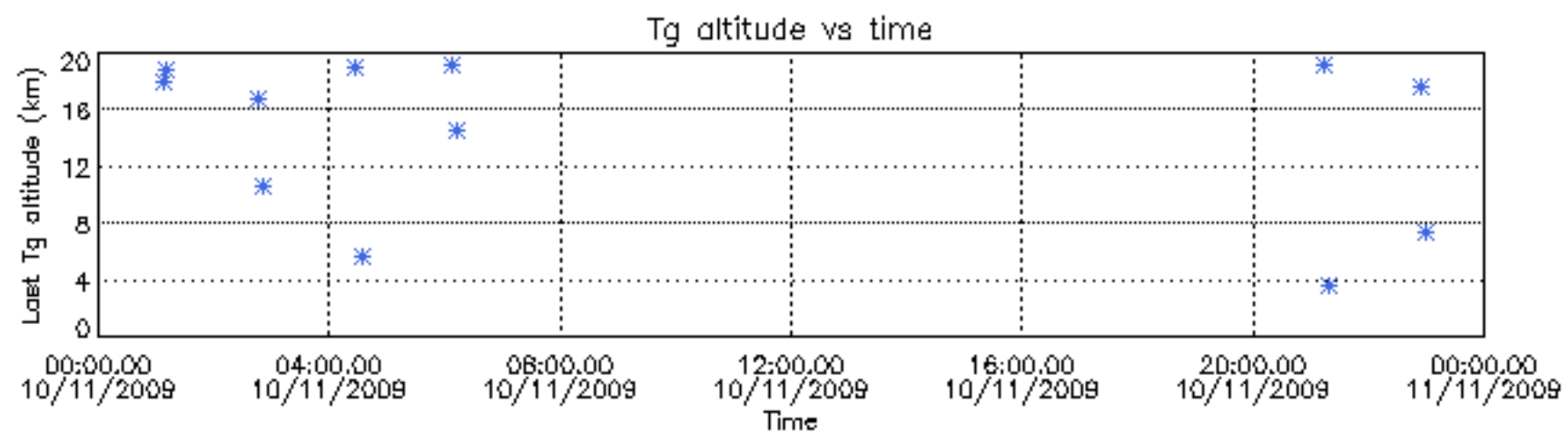


Percentage of saturation errors per profile

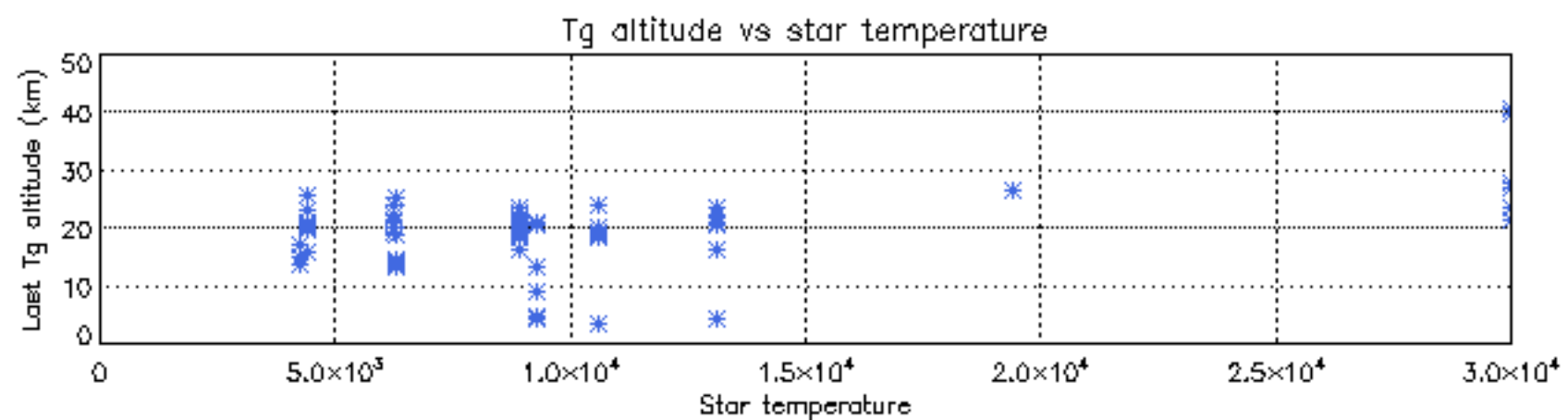
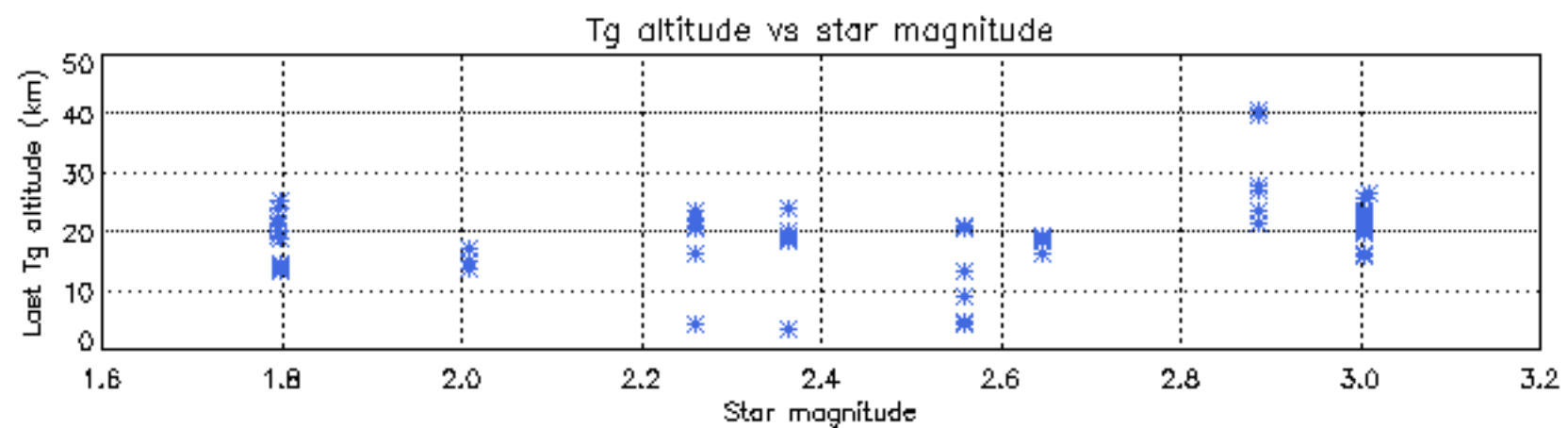
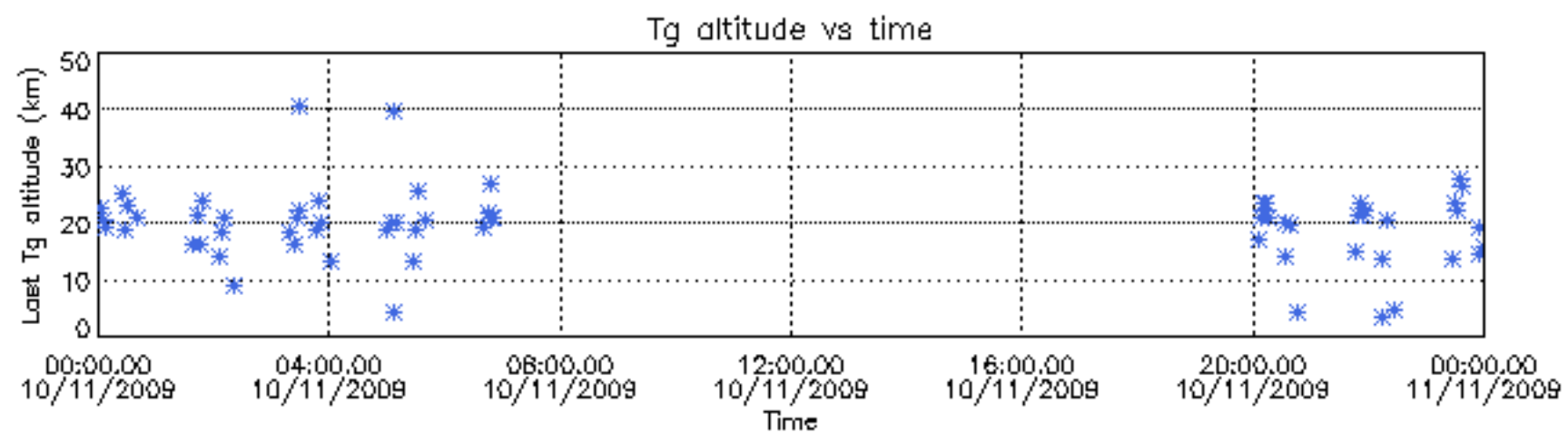


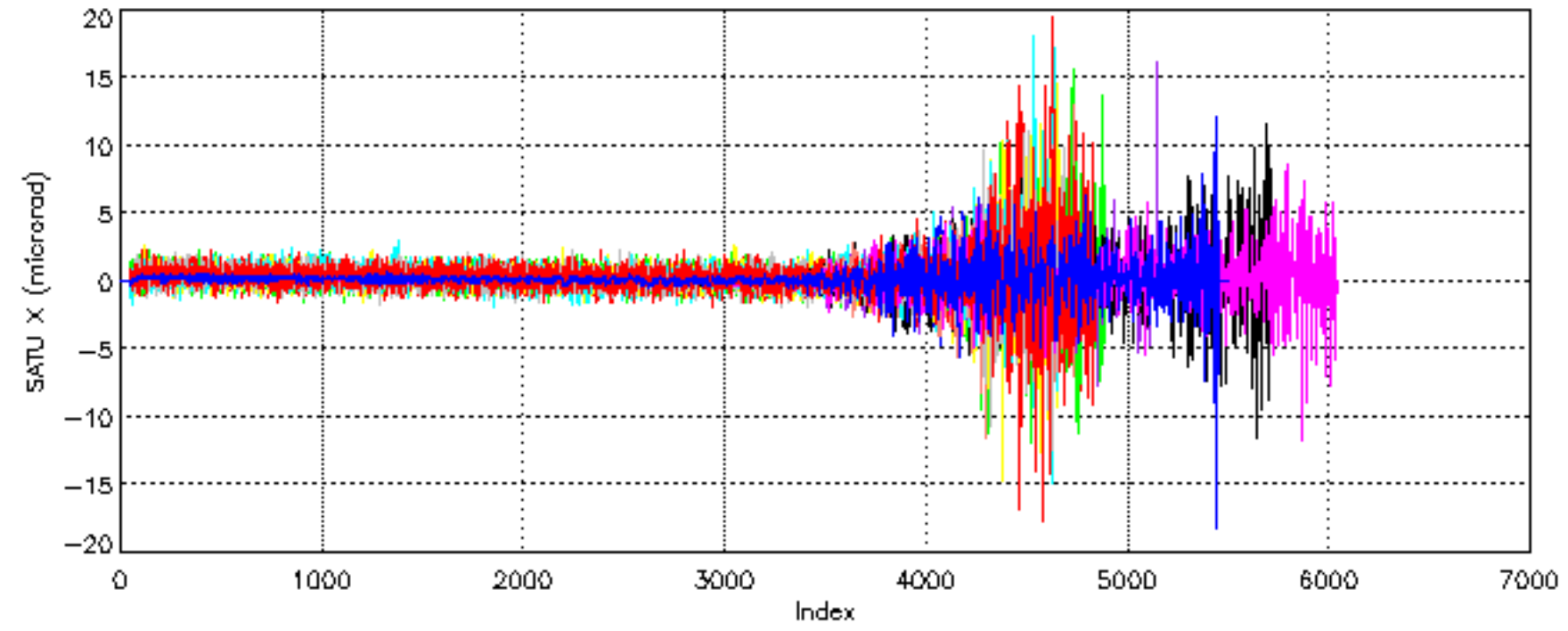


Tangent altitude at which the star is lost

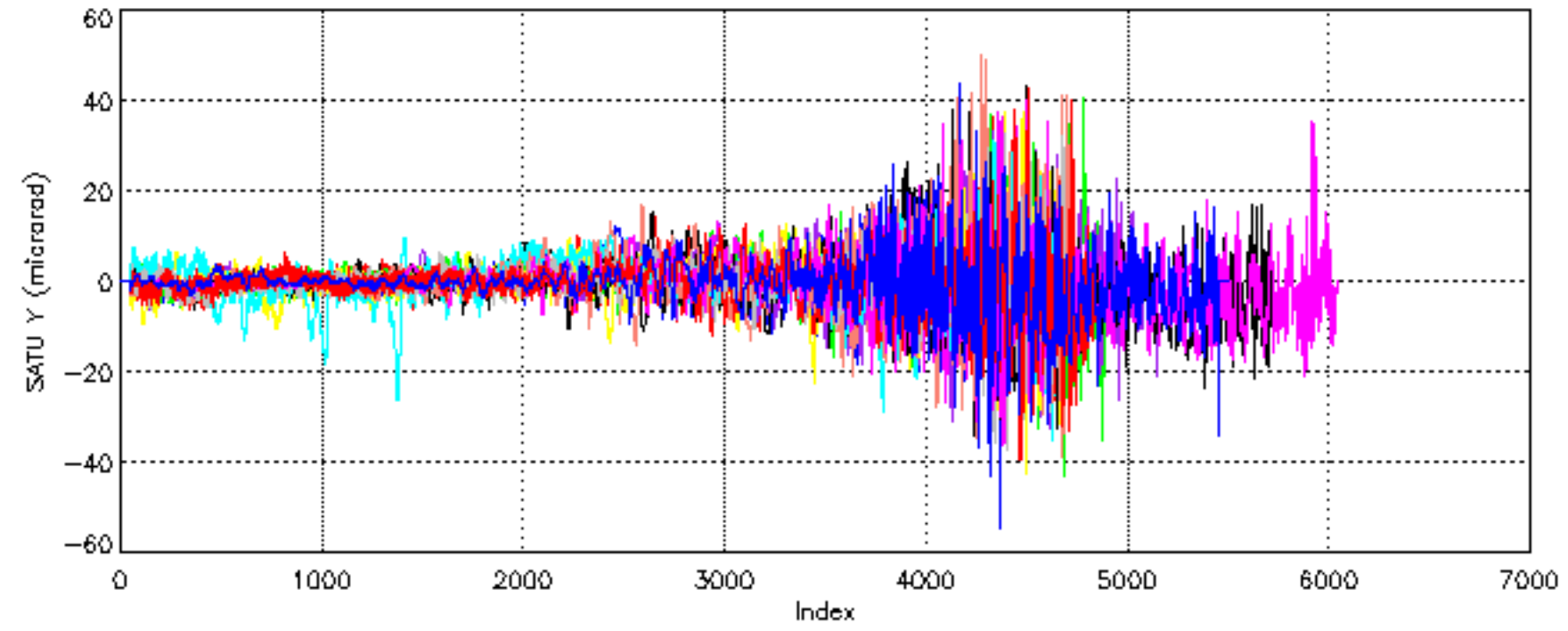


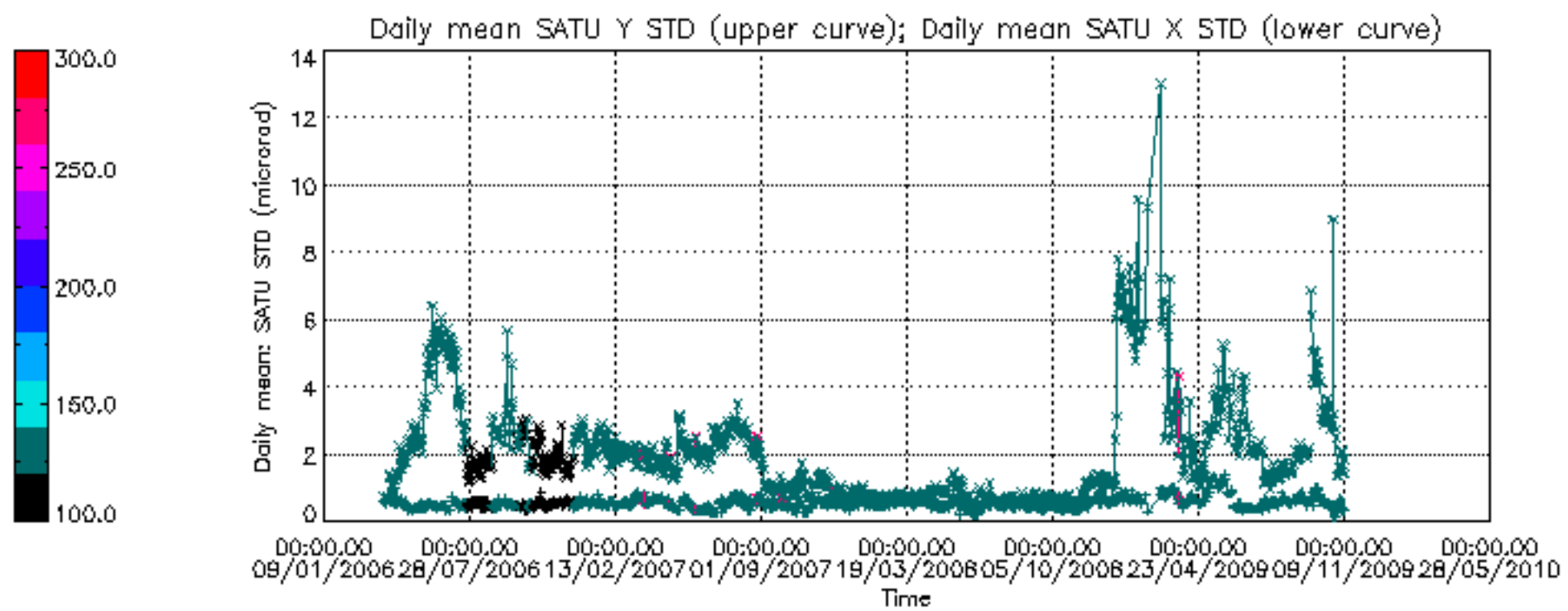
Tangent altitude at which the star is lost











/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20091101\_003421\_000055302083\_00474\_40107\_8843.N1

1; -534.0; 01-NOV-2009 00:34:21; Dark ; 68.5; 48; 30Alp Hya ; 1.98; 4100;occ; 137; 0;40107  
 2; -19.6; 01-NOV-2009 00:42:55; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;40107  
 3; 197.6; 01-NOV-2009 00:46:32; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;40108  
 4; 348.1; 01-NOV-2009 00:49:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40108  
 5; 524.1; 01-NOV-2009 00:51:59; Dark ; 51.0; 2; Alp Car ;-0.74; 7000;occ; 102; 0;40108  
 6; 908.8; 01-NOV-2009 00:58:23; Dark ; 29.0; 108; Alp Col ; 2.65; 15200;occ; 58; 0;40108  
 7; 2010.3; 01-NOV-2009 01:16:45; Dark ; 58.0; 94; 92Alp Cet ; 2.53; 3100;occ; 116; 0;40108  
 8; 2273.3; 01-NOV-2009 01:21:08; Bright; 40.0; 105; 6Bet Ari ; 2.64; 8900;occ; 80; 0;40108  
 9; 2538.3; 01-NOV-2009 01:25:33; Bright; 39.5; 173; 4Bet Tri ; 3.00; 8900;occ; 79; 0;40108  
 10; 2660.8; 01-NOV-2009 01:27:35; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;40108  
 11; 2742.1; 01-NOV-2009 01:28:57; Bright; 46.0; 79; 26Bet Per ; 2.31; 13100;occ; 92; 0;40108  
 12; 2934.3; 01-NOV-2009 01:32:09; Bright; 42.0; 160; 23Gam Per ; 2.93; 4700;occ; 84; 0;40108  
 13; 3911.9; 01-NOV-2009 01:48:27; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;40108  
 14; 4008.4; 01-NOV-2009 01:50:03; Bright; 38.0; 82; 48Bet UMa ; 2.37; 10600;occ; 76; 0;40108  
 15; 4229.5; 01-NOV-2009 01:53:44; Bright; 38.5; 174; 52Psi UMa ; 3.00; 4400;occ; 77; 0;40108  
 16; 4709.7; 01-NOV-2009 02:01:44; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;40108  
 17; 4938.4; 01-NOV-2009 02:05:33; Bright; 58.0; 22; 32Alp Leo ; 1.36; 15200;occ; 116; 0;40108

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20091101\_021458\_000044602083\_00475\_40108\_8844.N1

1; -532.5; 01-NOV-2009 02:14:58; Dark ; 66.0; 48; 30Alp Hya ; 1.98; 4100;occ; 132; 0;40108  
 2; -18.6; 01-NOV-2009 02:23:32; Dark ; 45.5; 65; Lam Vel ; 2.20; 4400;occ; 91; 0;40108  
 3; 198.7; 01-NOV-2009 02:27:09; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;40109  
 4; 349.0; 01-NOV-2009 02:29:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40109  
 5; 525.4; 01-NOV-2009 02:32:36; Dark ; 48.0; 2; Alp Car ;-0.74; 7000;occ; 96; 0;40109  
 6; 910.1; 01-NOV-2009 02:39:01; Dark ; 29.0; 108; Alp Col ; 2.65; 15200;occ; 58; 0;40109  
 7; 2010.1; 01-NOV-2009 02:57:21; Dark ; 56.5; 94; 92Alp Cet ; 2.53; 3100;occ; 113; 0;40109  
 8; 2273.2; 01-NOV-2009 03:01:44; Bright; 38.5; 105; 6Bet Ari ; 2.64; 8900;occ; 77; 0;40109  
 9; 2538.6; 01-NOV-2009 03:06:09; Bright; 39.0; 173; 4Bet Tri ; 3.00; 8900;occ; 78; 0;40109  
 10; 2660.6; 01-NOV-2009 03:08:11; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;40109  
 11; 2741.6; 01-NOV-2009 03:09:32; Bright; 44.5; 79; 26Bet Per ; 2.31; 13100;occ; 89; 0;40109  
 12; 2933.8; 01-NOV-2009 03:12:44; Bright; 42.5; 160; 23Gam Per ; 2.93; 4700;occ; 85; 0;40109  
 13; 3912.0; 01-NOV-2009 03:29:03; Bright; 16.0; 36; 50Alp UMa ; 1.80; 6300;occ; 32; 0;40109

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20091101\_032903\_000050992083\_00476\_40109\_8845.N1

1; -2124.0; 01-NOV-2009 03:29:03; Bright; 39.5; 36; 50Alp UMa ; 1.80; 6300;occ; 79; 0;40109  
 2; -2027.5; 01-NOV-2009 03:30:39; Bright; 37.5; 82; 48Bet UMa ; 2.37; 10600;occ; 75; 0;40109  
 3; -1806.5; 01-NOV-2009 03:34:20; Bright; 47.5; 174; 52Psi UMa ; 3.00; 4400;occ; 95; 0;40109  
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 4; 2525.1; 04-NOV-2009 14:55:52; Bright; 39.0; 173; 4Bet Tri ; 3.00; 8900;occ; 78; 0;40159  
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 13; 4973.4; 04-NOV-2009 15:36:40; Dark ; 64.5; 22; 32Alp Leo ; 1.36; 15200;occ; 129; 0;40159  
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 17; 6432.8; 04-NOV-2009 16:01:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40159  
 18; 6600.4; 04-NOV-2009 16:03:47; Dark ; 55.0; 2; Alp Car ; -0.74; 7000;occ; 110; 0;40159  
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 7; 3906.8; 04-NOV-2009 16:59:30; Bright; 42.0; 36; 50Alp UMa ; 1.80; 6300;occ; 84; 0;40160  
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 9; 4229.8; 04-NOV-2009 17:04:53; Bright; 39.0; 174; 52Psi UMA ; 3.00; 4400;occ; 78; 0;40160  
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4; 2524.7; 04-NOV-2009 18:17:03; Bright; 38.0; 173; 4Bet Tri ; 3.00; 8900;occ; 76; 0;40161
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8; 4003.7; 04-NOV-2009 18:41:42; Bright; 40.5; 82; 48Bet UMa ; 2.37; 10600;occ; 81; 0;40161
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4; 2266.6; 04-NOV-2009 19:53:21; Bright; 38.5; 105; 6Bet Ari ; 2.64; 8900;occ; 77; 0;40162
5; 2524.4; 04-NOV-2009 19:57:39; Bright; 38.5; 173; 4Bet Tri ; 3.00; 8900;occ; 77; 0;40162
6; 2647.4; 04-NOV-2009 19:59:42; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;40162
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6; 962.8; 05-NOV-2009 00:33:25; Dark ; 59.5; 108; Alp Col ; 2.65; 15200;occ; 119; 0;40165
7; 1633.8; 05-NOV-2009 00:44:36; Dark ; 59.5; 165; 34Gam Eri ; 2.95; 3200;occ; 119; 0;40165
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3; 269.9; 05-NOV-2009 02:02:28; Dark ; 51.0; 70; Zet Pup ; 2.25; 39000;occ; 102; 0;40166
4; 402.4; 05-NOV-2009 02:04:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40166
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 4; 2627.3; 28-NOV-2009 09:01:08; Bright; 38.5; 149; 45Eps Per ; 2.89; 30000;occ; 77; 0;40499
 5; 2746.2; 28-NOV-2009 09:03:07; Bright; 37.5; 175; 39Del Per ; 3.01; 19400;occ; 75; 0;40499
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 8; 3834.0; 28-NOV-2009 09:21:14; Bright; 47.0; 36; 50Alp UMa ; 1.80; 6300;occ; 94; 0;40499
 9; 3931.1; 28-NOV-2009 09:22:52; Bright; 43.0; 82; 48Bet UMa ; 2.37; 10600;occ; 86; 0;40499
10; 4033.5; 28-NOV-2009 09:24:34; Bright; 39.5; 87; 64Gam UMa ; 2.43; 11000;occ; 79; 0;40499
11; 4196.5; 28-NOV-2009 09:27:17; Bright; 50.5; 174; 52Psi UMa ; 3.00; 4400;occ; 101; 0;40499
12; 4345.6; 28-NOV-2009 09:29:46; Bright; 37.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 75; 0;40499
13; 4898.1; 28-NOV-2009 09:38:59; Bright; 65.5; 62; 94Bet Leo ; 2.14; 9700;occ; 131; 0;40499
14; 5099.4; 28-NOV-2009 09:42:20; Bright; 60.0; 121; 29Gam Vir ; 2.74; 7200;occ; 120; 0;40499
15; 5431.4; 28-NOV-2009 09:47:52; Dark ; 45.0; 100; 4Gam Crv ; 2.58; 13100;occ; 90; 0;40499
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17; 6095.2; 28-NOV-2009 09:58:56; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;40499
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22; 7155.7; 28-NOV-2009 10:16:36; Dark ; 34.0; 23; 21Eps CMA ; 1.50; 26000;occ; 68; 0;40499
23; 7221.5; 28-NOV-2009 10:17:42; Dark ; 55.0; 177; 1Zet CMA ; 3.02; 26000;occ; 110; 0;40499
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 3; 2480.0; 28-NOV-2009 10:39:16; Bright; 40.5; 150; 44Zet Per ; 2.89; 28000;occ; 81; 0;40500
 4; 2627.0; 28-NOV-2009 10:41:43; Bright; 38.5; 149; 45Eps Per ; 2.89; 30000;occ; 77; 0;40500
 5; 2745.8; 28-NOV-2009 10:43:42; Bright; 38.5; 175; 39Del Per ; 3.01; 19400;occ; 77; 0;40500
 6; 2873.7; 28-NOV-2009 10:45:50; Bright; 52.0; 6; 13Alp Aur ; 0.08; 3400;occ; 104; 0;40500
 7; 2994.6; 28-NOV-2009 10:47:51; Bright; 54.0; 42; 34Bet Aur ; 1.90; 10200;occ; 108; 0;40500
 8; 3833.8; 28-NOV-2009 11:01:50; Bright; 49.0; 36; 50Alp UMa ; 1.80; 6300;occ; 98; 0;40500
 9; 3931.0; 28-NOV-2009 11:03:27; Bright; 44.5; 82; 48Bet UMa ; 2.37; 10600;occ; 89; 0;40500
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11; 4196.5; 28-NOV-2009 11:07:53; Bright; 74.0; 174; 52Psi UMa ; 3.00; 4400;occ; 148; 0;40500
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13; 4898.8; 28-NOV-2009 11:19:35; Bright; 52.5; 62; 94Bet Leo ; 2.14; 9700;occ; 105; 0;40500
14; 5099.8; 28-NOV-2009 11:22:56; Bright; 43.5; 121; 29Gam Vir ; 2.74; 7200;occ; 87; 0;40500
15; 5432.0; 28-NOV-2009 11:28:28; Dark ; 48.0; 100; 4Gam Crv ; 2.58; 13100;occ; 96; 0;40500
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20; 6708.2; 28-NOV-2009 11:49:44; Dark ; 54.5; 70; Zet Pup ; 2.25; 39000;occ; 109; 0;40500
21; 6923.4; 28-NOV-2009 11:53:20; Dark ; 67.0; 117; Pi Pup ; 2.71; 3800;occ; 134; 0;40500
22; 7156.4; 28-NOV-2009 11:57:13; Dark ; 34.0; 23; 21Eps CMA ; 1.50; 26000;occ; 68; 0;40500
23; 7221.7; 28-NOV-2009 11:58:18; Dark ; 55.5; 177; 1Zet CMA ; 3.02; 26000;occ; 111; 0;40500
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 2; 1755.6; 28-NOV-2009 12:07:48; Dark ; 62.0; 7; 19Bet Ori ; 0.10; 14000;occ; 124; 0;40501
 3; 2245.9; 28-NOV-2009 12:15:58; Bright; 54.5; 13; 87Alp Tau ; 0.87; 3800;occ; 109; 0;40501
 4; 2479.8; 28-NOV-2009 12:19:52; Bright; 37.5; 150; 44Zet Per ; 2.89; 28000;occ; 75; 0;40501
 5; 2626.7; 28-NOV-2009 12:22:19; Bright; 39.0; 149; 45Eps Per ; 2.89; 30000;occ; 78; 0;40501
 6; 2745.5; 28-NOV-2009 12:24:18; Bright; 37.5; 175; 39Del Per ; 3.01; 19400;occ; 75; 0;40501
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 9; 3833.3; 28-NOV-2009 12:42:25; Bright; 40.0; 36; 50Alp UMa ; 1.80; 6300;occ; 80; 0;40501
10; 3930.4; 28-NOV-2009 12:44:03; Bright; 45.0; 82; 48Bet UMa ; 2.37; 10600;occ; 90; 0;40501
11; 4033.2; 28-NOV-2009 12:45:45; Bright; 41.0; 87; 64Gam UMa ; 2.43; 11000;occ; 82; 0;40501
12; 4195.9; 28-NOV-2009 12:48:28; Bright; 74.0; 174; 52Psi UMa ; 3.00; 4400;occ; 148; 0;40501
13; 4345.7; 28-NOV-2009 12:50:58; Bright; 37.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 74; 0;40501

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 15; 5100.3; 28-NOV-2009 13:03:32; Bright; 60.0; 121; 29Gam Vir ; 2.74; 7200;occ; 120; 0;40501  
 16; 5432.9; 28-NOV-2009 13:09:05; Dark ; 46.5; 100; 4Gam Crv ; 2.58; 13100;occ; 93; 0;40501  
 17; 5527.9; 28-NOV-2009 13:10:40; Dark ; 47.0; 171; 2Eps Crv ; 3.00; 4250;occ; 94; 0;40501  
 18; 6096.7; 28-NOV-2009 13:20:09; Dark ; 41.5; 113; Mu Vel ; 2.69; 5000;occ; 83; 0;40501  
 19; 6413.1; 28-NOV-2009 13:25:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40501  
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 21; 6709.2; 28-NOV-2009 13:30:21; Dark ; 56.0; 70; Zet Pup ; 2.25; 39000;occ; 112; 0;40501  
 22; 6924.3; 28-NOV-2009 13:33:56; Dark ; 65.0; 117; Pi Pup ; 2.71; 3800;occ; 130; 0;40501  
 23; 7157.2; 28-NOV-2009 13:37:49; Dark ; 37.0; 23; 21Eps CMa ; 1.50; 26000;occ; 74; 0;40501  
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 3; 2245.5; 28-NOV-2009 13:56:34; Bright; 54.0; 13; 87Alp Tau ; 0.87; 3800;occ; 108; 0;40502  
 4; 2335.0; 28-NOV-2009 13:58:03; Bright; 42.0; 146; 25Eta Tau ; 2.87; 15200;occ; 84; 0;40502  
 5; 2479.6; 28-NOV-2009 14:00:28; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;40502  
 6; 2626.7; 28-NOV-2009 14:02:55; Bright; 53.0; 149; 45Eps Per ; 2.89; 30000;occ; 106; 0;40502  
 7; 2745.7; 28-NOV-2009 14:04:54; Bright; 37.5; 175; 39Del Per ; 3.01; 19400;occ; 75; 0;40502  
 8; 2872.4; 28-NOV-2009 14:07:00; Bright; 48.0; 6; 13Alp Aur ; 0.08; 3400;occ; 96; 0;40502  
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 10; 3832.9; 28-NOV-2009 14:23:01; Bright; 44.0; 36; 50Alp UMa ; 1.80; 6300;occ; 88; 0;40502  
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 13; 4196.0; 28-NOV-2009 14:29:04; Bright; 53.0; 174; 52Psi UMa ; 3.00; 4400;occ; 106; 0;40502  
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 16; 5101.3; 28-NOV-2009 14:44:09; Bright; 60.0; 121; 29Gam Vir ; 2.74; 7200;occ; 120; 0;40502  
 17; 5433.5; 28-NOV-2009 14:49:42; Dark ; 47.0; 100; 4Gam Crv ; 2.58; 13100;occ; 94; 0;40502  
 18; 5528.5; 28-NOV-2009 14:51:17; Dark ; 49.0; 171; 2Eps Crv ; 3.00; 4250;occ; 98; 0;40502  
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 21; 6610.7; 28-NOV-2009 15:09:19; Dark ; 51.5; 34; Gam2Vel ; 1.79; 23000;occ; 103; 0;40502  
 22; 6710.2; 28-NOV-2009 15:10:58; Dark ; 57.0; 70; Zet Pup ; 2.25; 39000;occ; 114; 0;40502  
 23; 6925.4; 28-NOV-2009 15:14:33; Dark ; 58.0; 117; Pi Pup ; 2.71; 3800;occ; 116; 0;40502  
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 4; 2334.8; 28-NOV-2009 15:38:39; Bright; 40.5; 146; 25Eta Tau ; 2.87; 15200;occ; 81; 0;40503  
 5; 2479.5; 28-NOV-2009 15:41:03; Bright; 40.5; 150; 44Zet Per ; 2.89; 28000;occ; 81; 0;40503  
 6; 2626.2; 28-NOV-2009 15:43:30; Bright; 38.0; 149; 45Eps Per ; 2.89; 30000;occ; 76; 0;40503  
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 22; 6711.5; 28-NOV-2009 16:51:35; Dark ; 55.5; 70; Zet Pup ; 2.25; 39000;occ; 111; 0;40503  
 23; 6926.4; 28-NOV-2009 16:55:10; Dark ; 60.5; 117; Pi Pup ; 2.71; 3800;occ; 121; 0;40503  
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19; 5435.1; 28-NOV-2009 18:10:55; Dark ; 48.5; 100; 4Gam Crv ; 2.58; 13100;occ; 97; 0;40504
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22; 6415.7; 28-NOV-2009 18:27:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40504
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