

GOMOS Daily Report 04-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	06NOV2009 04:34:30
Data source version	GOMOS/5.00L03
Start time of products	04NOV2009 00:13:32
Stop time of products	04NOV2009 23:59:43
Store outputs in DB	Yes
Nb of level 1b prods	96
Nb of prods with errors	0

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

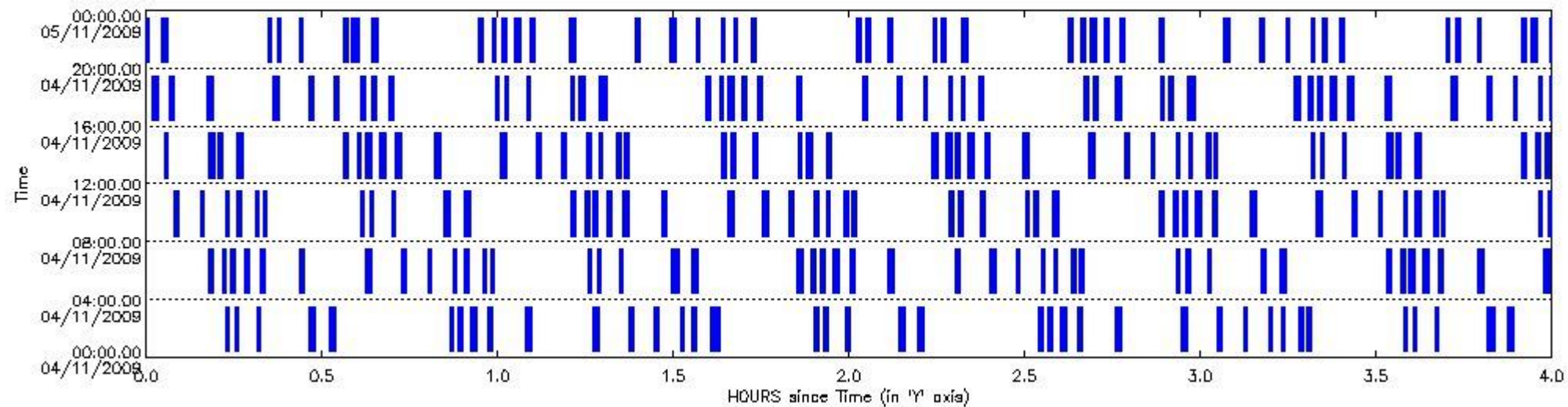
2.1 Level 0 products arrived in PCF (see template [here](#))

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.

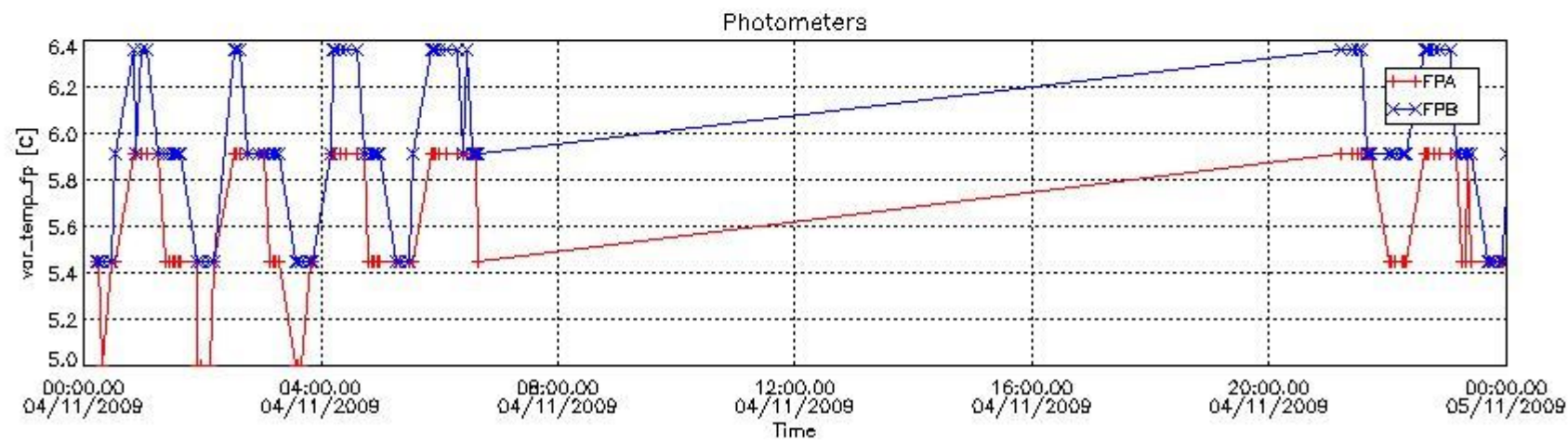
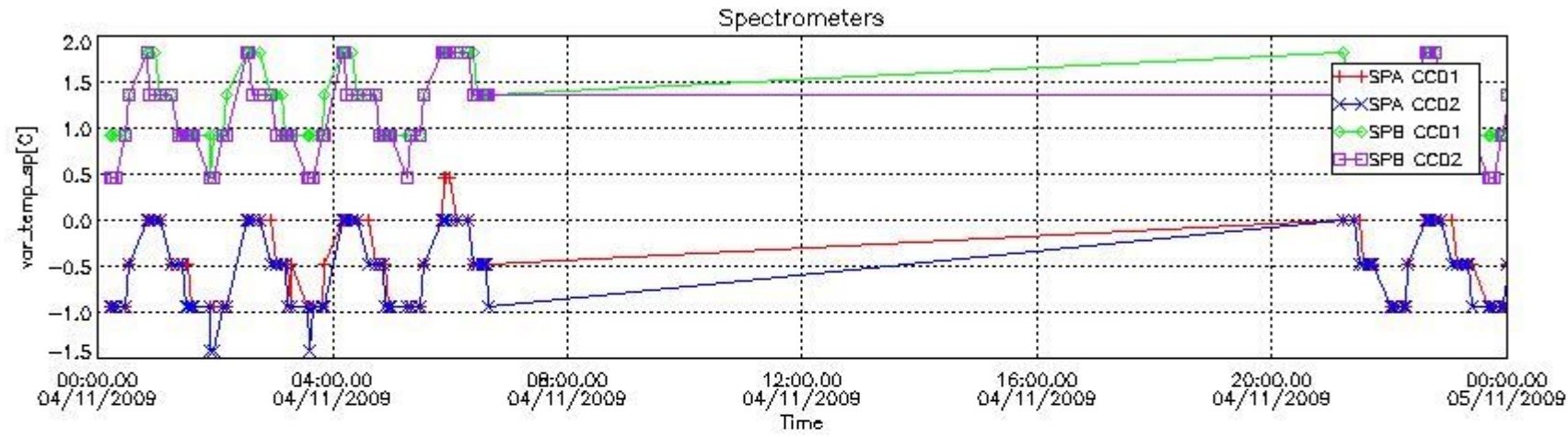
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20091104_001332_000000402084_00016_40150_2621.N1	04-NOV-2009 00:13:32	Bright	40.000	36	50Alp UMa	1.8000	6300.0	80	40150	No
2	GOM_TRA_1PNPDE20091104_001509_000000382084_00016_40150_2622.N1	04-NOV-2009 00:15:09	Bright	38.000	82	48Bet UMa	2.3650	10600.	76	40150	No
3	GOM_TRA_1PNPDE20091104_001853_000000372084_00016_40150_2623.N1	04-NOV-2009 00:18:53	Bright	37.000	174	52Psi UMa	3.0040	4400.0	74	40150	No
4	GOM_TRA_1PNPDE20091104_002750_000000562084_00016_40150_2624.N1	04-NOV-2009 00:27:50	Bright	55.500	51	41Gam1Leo	2.0100	4500.0	111	40150	No
5	GOM_TRA_1PNPDE20091104_003110_000000652084_00016_40150_2625.N1	04-NOV-2009 00:31:10	Bright	65.000	22	32Alp Leo	1.3600	15200.	130	40150	No
6	GOM_TRA_1PNPDE20091104_005145_000000452084_00017_40151_2617.N1	04-NOV-2009 00:51:45	Dark	44.500	46	Del Vel	1.9540	10600.	89	40151	No
7	GOM_TRA_1PNPDE20091104_005311_000000502084_00017_40151_2618.N1	04-NOV-2009 00:53:11	Dark	49.500	70	Zet Pup	2.2460	39000.	99	40151	No
8	GOM_TRA_1PNPDE20091104_005817_000000512084_00017_40151_2619.N1	04-NOV-2009 00:58:17	Dark	50.500	2	Alp Car	-0.73600	7000.0	101	40151	No
9	GOM_TRA_1PNPDE20091104_010450_000000612084_00017_40151_2620.N1	04-NOV-2009 01:04:50	Dark	61.000	108	Alp Col	2.6520	15200.	122	40151	No
10	GOM_TRA_1PNPDE20091104_011613_000000622084_00017_40151_2621.N1	04-NOV-2009 01:16:13	Straylight	62.000	165	34Gam Eri	2.9500	3200.0	124	40151	No
11	GOM_TRA_1PNPDE20091104_012218_000000522084_00017_40151_2622.N1	04-NOV-2009 01:22:18	Twilight_stray	52.000	94	92Alp Cet	2.5260	3100.0	104	40151	No
12	GOM_TRA_1PNPDE20091104_012647_000000402084_00017_40151_2623.N1	04-NOV-2009 01:26:47	Bright	39.500	105	6Bet Ari	2.6450	8900.0	79	40151	No

13	GOM_TRA_1PNPDE20091104_013107_000000392084_00017_40151_2624.N1	04-NOV-2009 01:31:07	Bright	38.500	173	4Bet Tri	3.0040	8900.0	77	40151	No
14	GOM_TRA_1PNPDE20091104_013309_000000402084_00017_40151_2625.N1	04-NOV-2009 01:33:09	Bright	39.500	73	57Gam1And	2.2600	13100.	79	40151	No
15	GOM_TRA_1PNPDE20091104_013614_000000332084_00017_40151_2626.N1	04-NOV-2009 01:36:14	Tw_i_and_stray	33.000	149	45Eps Per	2.8880	30000.	66	40151	No
16	GOM_TRA_1PNPDE20091104_013714_000000452084_00017_40151_2627.N1	04-NOV-2009 01:37:14	Bright	45.000	35	33Alp Per	1.7950	6250.0	90	40151	No
17	GOM_TRA_1PNPDE20091104_015407_000000392084_00017_40151_2628.N1	04-NOV-2009 01:54:07	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	40151	No
18	GOM_TRA_1PNPDE20091104_015544_000000402084_00017_40151_2629.N1	04-NOV-2009 01:55:44	Bright	39.500	82	48Bet UMa	2.3650	10600.	79	40151	No
19	GOM_TRA_1PNPDE20091104_015929_000000382084_00017_40151_2630.N1	04-NOV-2009 01:59:29	Bright	37.500	174	52Psi UMa	3.0040	4400.0	75	40151	No
20	GOM_TRA_1PNPDE20091104_020826_000000722084_00017_40151_2631.N1	04-NOV-2009 02:08:26	Bright	72.000	51	41Gam1Leo	2.0100	4500.0	144	40151	No
21	GOM_TRA_1PNPDE20091104_021147_000000642084_00017_40151_2632.N1	04-NOV-2009 02:11:47	Bright	63.500	22	32Alp Leo	1.3600	15200.	127	40151	No
22	GOM_TRA_1PNPDE20091104_023221_000000432084_00018_40152_2625.N1	04-NOV-2009 02:32:21	Dark	42.500	46	Del Vel	1.9540	10600.	85	40152	No
23	GOM_TRA_1PNPDE20091104_023348_000000542084_00018_40152_2626.N1	04-NOV-2009 02:33:48	Dark	53.500	70	Zet Pup	2.2460	39000.	107	40152	No
24	GOM_TRA_1PNPDE20091104_023854_000000482084_00018_40152_2627.N1	04-NOV-2009 02:38:54	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	40152	No
25	GOM_TRA_1PNPDE20091104_024527_000000582084_00018_40152_2628.N1	04-NOV-2009 02:45:27	Dark	58.000	108	Alp Col	2.6520	15200.	116	40152	No
26	GOM_TRA_1PNPDE20091104_025649_000000612084_00018_40152_2629.N1	04-NOV-2009 02:56:49	Straylight	61.000	165	34Gam Eri	2.9500	3200.0	122	40152	No
27	GOM_TRA_1PNPDE20091104_030254_000000532084_00018_40152_2630.N1	04-NOV-2009 03:02:54	Tw_i_and_stray	52.500	94	92Alp Cet	2.5260	3100.0	105	40152	No
28	GOM_TRA_1PNPDE20091104_030723_000000392084_00018_40152_2631.N1	04-NOV-2009 03:07:23	Bright	39.000	105	6Bet Ari	2.6450	8900.0	78	40152	No
29	GOM_TRA_1PNPDE20091104_031142_000000392084_00018_40152_2632.N1	04-NOV-2009 03:11:42	Bright	38.500	173	4Bet Tri	3.0040	8900.0	77	40152	No
30	GOM_TRA_1PNPDE20091104_031345_000000412084_00018_40152_2633.N1	04-NOV-2009 03:13:45	Bright	40.500	73	57Gam1And	2.2600	13100.	81	40152	No
31	GOM_TRA_1PNPDE20091104_031649_000000392084_00018_40152_2634.N1	04-NOV-2009 03:16:49	Bright	39.000	149	45Eps Per	2.8880	30000.	78	40152	No
32	GOM_TRA_1PNPDE20091104_031809_000000402084_00018_40152_2635.N1	04-NOV-2009 03:18:09	Bright	40.000	160	23Gam Per	2.9300	4700.0	80	40152	No
33	GOM_TRA_1PNPDE20091104_033443_000000412084_00018_40152_2628.N1	04-NOV-2009 03:34:43	Bright	41.000	36	50Alp UMa	1.8000	6300.0	82	40152	No
34	GOM_TRA_1PNPDE20091104_033620_000000402084_00018_40152_2629.N1	04-NOV-2009 03:36:20	Bright	39.500	82	48Bet UMa	2.3650	10600.	79	40152	No
35	GOM_TRA_1PNPDE20091104_034005_000000402084_00018_40152_2630.N1	04-NOV-2009 03:40:05	Bright	39.500	174	52Psi UMa	3.0040	4400.0	79	40152	No
36	GOM_TRA_1PNPDE20091104_034903_000000722084_00018_40152_2631.N1	04-NOV-2009 03:49:03	Bright	72.000	51	41Gam1Leo	2.0100	4500.0	144	40152	No
37	GOM_TRA_1PNPDE20091104_035224_000000642084_00018_40152_2632.N1	04-NOV-2009 03:52:24	Bright	63.500	22	32Alp Leo	1.3600	15200.	127	40152	No
38	GOM_TRA_1PNPDE20091104_041032_000000522084_00019_40153_2633.N1	04-NOV-2009 04:10:32	Dark	52.000	65	Lam Vel	2.2040	4400.0	104	40153	No
39	GOM_TRA_1PNPDE20091104_041258_000000422084_00019_40153_2634.N1	04-NOV-2009 04:12:58	Dark	42.000	46	Del Vel	1.9540	10600.	84	40153	No
40	GOM_TRA_1PNPDE20091104_041425_000000502084_00019_40153_2635.N1	04-NOV-2009 04:14:25	Dark	50.000	70	Zet Pup	2.2460	39000.	100	40153	No
41	GOM_TRA_1PNPDE20091104_041931_000000472084_00019_40153_2636.N1	04-NOV-2009 04:19:31	Dark	46.500	2	Alp Car	-0.73600	7000.0	93	40153	No
42	GOM_TRA_1PNPDE20091104_042603_000000592084_00019_40153_2637.N1	04-NOV-2009 04:26:03	Dark	59.000	108	Alp Col	2.6520	15200.	118	40153	No
43	GOM_TRA_1PNPDE20091104_043725_000000602084_00019_40153_2638.N1	04-NOV-2009 04:37:25	Straylight	59.500	165	34Gam Eri	2.9500	3200.0	119	40153	No
44	GOM_TRA_1PNPDE20091104_044330_000000532084_00019_40153_2639.N1	04-NOV-2009 04:43:30	Tw_i_and_stray	53.000	94	92Alp Cet	2.5260	3100.0	106	40153	No
45	GOM_TRA_1PNPDE20091104_044759_000000382084_00019_40153_2640.N1	04-NOV-2009 04:47:59	Bright	37.500	105	6Bet Ari	2.6450	8900.0	75	40153	No
46	GOM_TRA_1PNPDE20091104_045218_000000382084_00019_40153_2641.N1	04-NOV-2009 04:52:18	Bright	37.500	173	4Bet Tri	3.0040	8900.0	75	40153	No
47	GOM_TRA_1PNPDE20091104_045421_000000402084_00019_40153_2642.N1	04-NOV-2009 04:54:21	Bright	40.000	73	57Gam1And	2.2600	13100.	80	40153	No
48	GOM_TRA_1PNPDE20091104_045724_000000392084_00019_40153_2643.N1	04-NOV-2009 04:57:24	Bright	39.000	149	45Eps Per	2.8880	30000.	78	40153	No
49	GOM_TRA_1PNPDE20091104_045844_000000402084_00019_40153_2644.N1	04-NOV-2009 04:58:44	Bright	40.000	160	23Gam Per	2.9300	4700.0	80	40153	No
50	GOM_TRA_1PNPDE20091104_051519_000000362084_00019_40153_2640.N1	04-NOV-2009 05:15:19	Bright	36.000	36	50Alp UMa	1.8000	6300.0	72	40153	No
51	GOM_TRA_1PNPDE20091104_051656_000000372084_00019_40153_2641.N1	04-NOV-2009 05:16:56	Bright	36.500	82	48Bet UMa	2.3650	10600.	73	40153	No
52	GOM_TRA_1PNPDE20091104_052041_000000402084_00019_40153_2642.N1	04-NOV-2009 05:20:41	Bright	39.500	174	52Psi UMa	3.0040	4400.0	79	40153	No
53	GOM_TRA_1PNPDE20091104_052939_000000722084_00019_40153_2643.N1	04-NOV-2009 05:29:39	Bright	72.000	51	41Gam1Leo	2.0100	4500.0	144	40153	No
54	GOM_TRA_1PNPDE20091104_053300_000000662084_00019_40153_2644.N1	04-NOV-2009 05:33:00	Bright	65.500	22	32Alp Leo	1.3600	15200.	131	40153	No
55	GOM_TRA_1PNPDE20091104_055109_000000622084_00020_40154_2645.N1	04-NOV-2009 05:51:09	Dark	61.500	65	Lam Vel	2.2040	4400.0	123	40154	No
56	GOM_TRA_1PNPDE20091104_055335_000000502084_00020_40154_2646.N1	04-NOV-2009 05:53:35	Dark	50.000	46	Del Vel	1.9540	10600.	100	40154	No
57	GOM_TRA_1PNPDE20091104_055503_000000522084_00020_40154_2647.N1	04-NOV-2009 05:55:03	Dark	52.000	70	Zet Pup	2.2460	39000.	104	40154	No
58	GOM_TRA_1PNPDE20091104_060007_000000482084_00020_40154_2648.N1	04-NOV-2009 06:00:07	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	40154	No
59	GOM_TRA_1PNPDE20091104_060640_000000602084_00020_40154_2649.N1	04-NOV-2009 06:06:40	Dark	59.500	108	Alp Col	2.6520	15200.	119	40154	No
60	GOM_TRA_1PNPDE20091104_061801_000000622084_00020_40154_2650.N1	04-NOV-2009 06:18:01	Straylight	62.000	165	34Gam Eri	2.9500	3200.0	124	40154	No
61	GOM_TRA_1PNPDE20091104_062406_000000542084_00020_40154_2651.N1	04-NOV-2009 06:24:06	Tw_i_and_stray	54.000	94	92Alp Cet	2.5260	3100.0	108	40154	No
62	GOM_TRA_1PNPDE20091104_062835_000000382084_00020_40154_2652.N1	04-NOV-2009 06:28:35	Bright	38.000	105	6Bet Ari	2.6450	8900.0	76	40154	No
63	GOM_TRA_1PNPDE20091104_063254_000000382084_00020_40154_2653.N1	04-NOV-2009 06:32:54	Bright	37.500	173	4Bet Tri	3.0040	8900.0	75	40154	No
64	GOM_TRA_1PNPDE20091104_063457_000000382084_00020_40154_2654.N1	04-NOV-2009 06:34:57	Bright	38.000	73	57Gam1And	2.2600	13100.	76	40154	No
65	GOM_TRA_1PNPDE20091104_063759_000000442084_00020_40154_2655.N1	04-NOV-2009 06:37:59	Bright	44.000	149	45Eps Per	2.8880	30000.	88	40154	No
66	GOM_TRA_1PNPDE20091104_063920_000000392084_00020_40154_2656.N1	04-NOV-2009 06:39:20	Bright	39.000	160	23Gam Per	2.9300	4700.0	78	40154	No
67	GOM_TRA_1PNPDE20091104_211212_000000582084_00029_40163_2668.N1	04-NOV-2009 21:12:12	Dark	58.000	108	Alp Col	2.6520	15200.	116	40163	No
68	GOM_TRA_1PNPDE20091104_212324_000000582084_00029_40163_2669.N1	04-NOV-2009 21:23:24	Straylight	58.000	165	34Gam Eri	2.9500	3200.0	116	40163	No
69	GOM_TRA_1PNPDE20091104_212927_000000522084_00029_40163_2670.N1	04-NOV-2009 21:29:27	Tw_i_and_stray	51.500	94	92Alp Cet	2.5260	3100.0	103	40163	No
70	GOM_TRA_1PNPDE20091104_213357_000000372084_00029_40163_2671.N1	04-NOV-2009 21:33:57	Bright	37.000	105	6Bet Ari	2.6450	8900.0	74	40163	No
71	GOM_TRA_1PNPDE20091104_213815_000000372084_00029_40163_2672.N1	04-NOV-2009 21:38:15	Bright	37.000	173	4Bet Tri	3.0040	8900.0	74	40163	No

72	GOM_TRA_1PNPDE20091104_214018_000000392084_00029_40163_2673.N1	04-NOV-2009 21:40:18	Bright	38.500	73	57Gam1And	2.2600	13100.	77	40163	No
73	GOM_TRA_1PNPDE20091104_214314_000000502084_00029_40163_2674.N1	04-NOV-2009 21:43:14	Bright	50.000	149	45Eps Per	2.8880	30000.	100	40163	No
74	GOM_TRA_1PNPDE20091104_220117_000000412084_00029_40163_2675.N1	04-NOV-2009 22:01:17	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	40163	No
75	GOM_TRA_1PNPDE20091104_220254_000000402084_00029_40163_2676.N1	04-NOV-2009 22:02:54	Bright	39.500	82	48Bet UMa	2.3650	10600.	79	40163	No
76	GOM_TRA_1PNPDE20091104_220640_000000432084_00029_40163_2677.N1	04-NOV-2009 22:06:40	Bright	42.500	174	52Psi UMa	3.0040	4400.0	85	40163	No
77	GOM_TRA_1PNPDE20091104_221419_000000402084_00029_40163_2678.N1	04-NOV-2009 22:14:19	Bright	40.000	96	68Del Leo	2.5600	9300.0	80	40163	No
78	GOM_TRA_1PNPDE20091104_221543_000000532084_00029_40163_2679.N1	04-NOV-2009 22:15:43	Bright	53.000	51	41Gam1Leo	2.0100	4500.0	106	40163	No
79	GOM_TRA_1PNPDE20091104_221907_000000662084_00029_40163_2680.N1	04-NOV-2009 22:19:07	Twilight	65.500	22	32Alp Leo	1.3600	15200.	131	40163	No
80	GOM_TRA_1PNPDE20091104_223717_000000582084_00030_40164_2675.N1	04-NOV-2009 22:37:17	Dark	57.500	65	Lam Vel	2.2040	4400.0	115	40164	No
81	GOM_TRA_1PNPDE20091104_223941_000000432084_00030_40164_2676.N1	04-NOV-2009 22:39:41	Dark	42.500	46	Del Vel	1.9540	10600.	85	40164	No
82	GOM_TRA_1PNPDE20091104_224114_000000542084_00030_40164_2677.N1	04-NOV-2009 22:41:14	Dark	54.000	70	Zet Pup	2.2460	39000.	108	40164	No
83	GOM_TRA_1PNPDE20091104_224614_000000502084_00030_40164_2678.N1	04-NOV-2009 22:46:14	Dark	49.500	2	Alp Car	-0.73600	7000.0	99	40164	No
84	GOM_TRA_1PNPDE20091104_225249_000000612084_00030_40164_2679.N1	04-NOV-2009 22:52:49	Dark	61.000	108	Alp Col	2.6520	15200.	122	40164	No
85	GOM_TRA_1PNPDE20091104_230400_000000602084_00030_40164_2680.N1	04-NOV-2009 23:04:00	Straylight	60.000	165	34Gam Eri	2.9500	3200.0	120	40164	No
86	GOM_TRA_1PNPDE20091104_231003_000000512084_00030_40164_2681.N1	04-NOV-2009 23:10:03	Twilight	51.000	94	92Alp Cet	2.5260	3100.0	102	40164	No
87	GOM_TRA_1PNPDE20091104_231433_000000382084_00030_40164_2682.N1	04-NOV-2009 23:14:33	Bright	38.000	105	6Bet Ari	2.6450	8900.0	76	40164	No
88	GOM_TRA_1PNPDE20091104_231851_000000382084_00030_40164_2683.N1	04-NOV-2009 23:18:51	Bright	37.500	173	4Bet Tri	3.0040	8900.0	75	40164	No
89	GOM_TRA_1PNPDE20091104_232054_000000412084_00030_40164_2684.N1	04-NOV-2009 23:20:54	Bright	41.000	73	57Gam1And	2.2600	13100.	82	40164	No
90	GOM_TRA_1PNPDE20091104_232349_000000502084_00030_40164_2685.N1	04-NOV-2009 23:23:49	Bright	50.000	149	45Eps Per	2.8880	30000.	100	40164	No
91	GOM_TRA_1PNPDE20091104_234153_000000412084_00030_40164_2686.N1	04-NOV-2009 23:41:53	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	40164	No
92	GOM_TRA_1PNPDE20091104_234330_000000572084_00030_40164_2687.N1	04-NOV-2009 23:43:30	Bright	57.000	82	48Bet UMa	2.3650	10600.	114	40164	No
93	GOM_TRA_1PNPDE20091104_234716_000000382084_00030_40164_2688.N1	04-NOV-2009 23:47:16	Bright	38.000	174	52Psi UMa	3.0040	4400.0	76	40164	No
94	GOM_TRA_1PNPDE20091104_235455_000000422084_00030_40164_2689.N1	04-NOV-2009 23:54:55	Bright	41.500	96	68Del Leo	2.5600	9300.0	83	40164	No
95	GOM_TRA_1PNPDE20091104_235619_000000732084_00030_40164_2690.N1	04-NOV-2009 23:56:19	Bright	73.000	51	41Gam1Leo	2.0100	4500.0	146	40164	No
96	GOM_TRA_1PNPDE20091104_235943_000000642084_00030_40164_2691.N1	04-NOV-2009 23:59:43	Twilight	63.500	22	32Alp Leo	1.3600	15200.	127	40164	No

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



4. Overview of dark signal processing per product

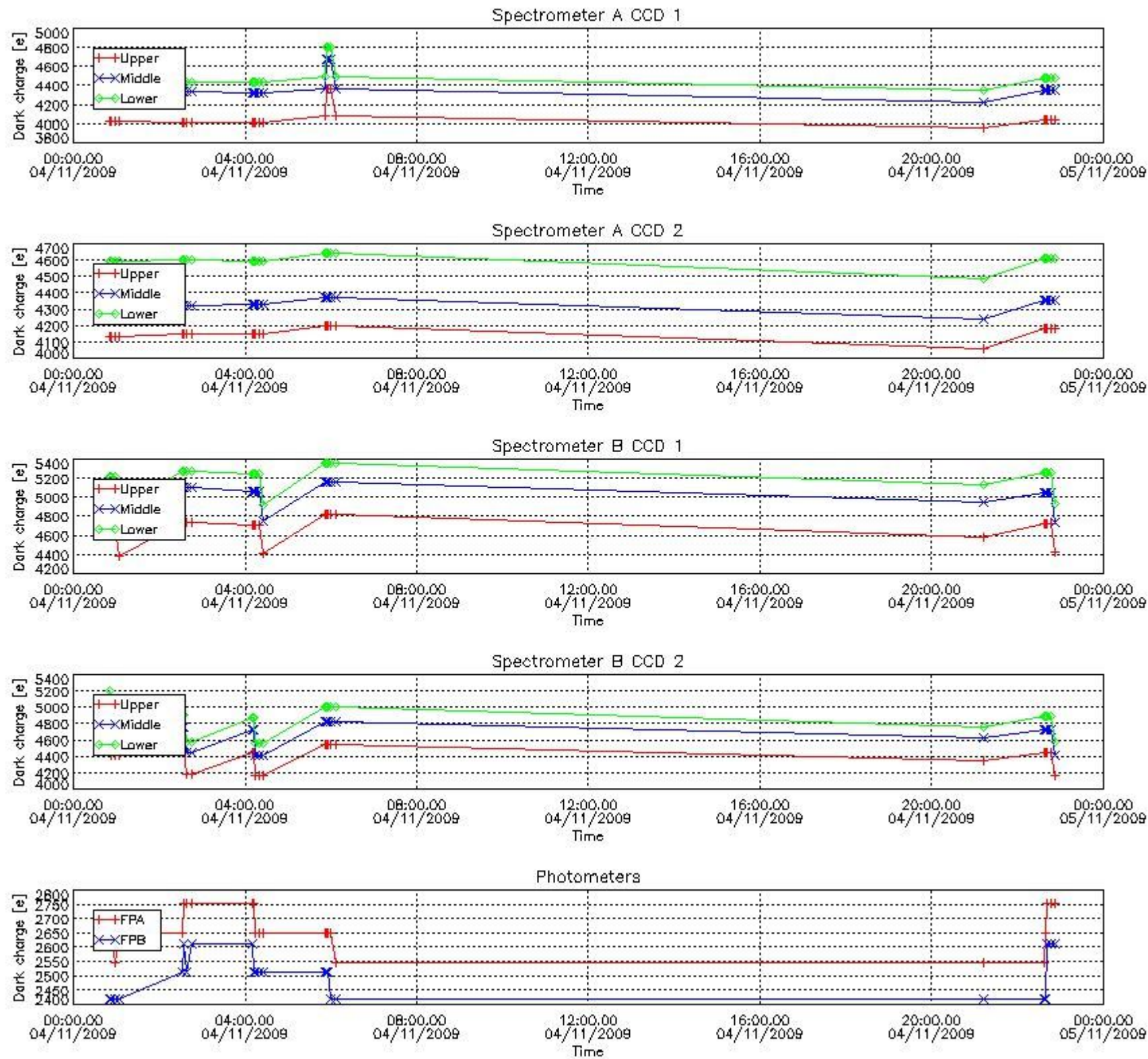
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20091104_211212_000000582084_00029_40163_2668.N1	DC map used
GOM_TRA_1PNPDE20091104_212324_000000582084_00029_40163_2669.N1	DC map used
GOM_TRA_1PNPDE20091104_212927_000000522084_00029_40163_2670.N1	DC map used
GOM_TRA_1PNPDE20091104_213357_000000372084_00029_40163_2671.N1	DC map used
GOM_TRA_1PNPDE20091104_213815_000000372084_00029_40163_2672.N1	DC map used
GOM_TRA_1PNPDE20091104_214018_000000392084_00029_40163_2673.N1	DC map used
GOM_TRA_1PNPDE20091104_214314_000000502084_00029_40163_2674.N1	DC map used
GOM_TRA_1PNPDE20091104_220117_000000412084_00029_40163_2675.N1	DC map used
GOM_TRA_1PNPDE20091104_220254_000000402084_00029_40163_2676.N1	DC map used
GOM_TRA_1PNPDE20091104_220640_000000432084_00029_40163_2677.N1	DC map used
GOM_TRA_1PNPDE20091104_221419_000000402084_00029_40163_2678.N1	DC map used
GOM_TRA_1PNPDE20091104_221543_000000532084_00029_40163_2679.N1	DC map used
GOM_TRA_1PNPDE20091104_221907_000000662084_00029_40163_2680.N1	DC map used

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



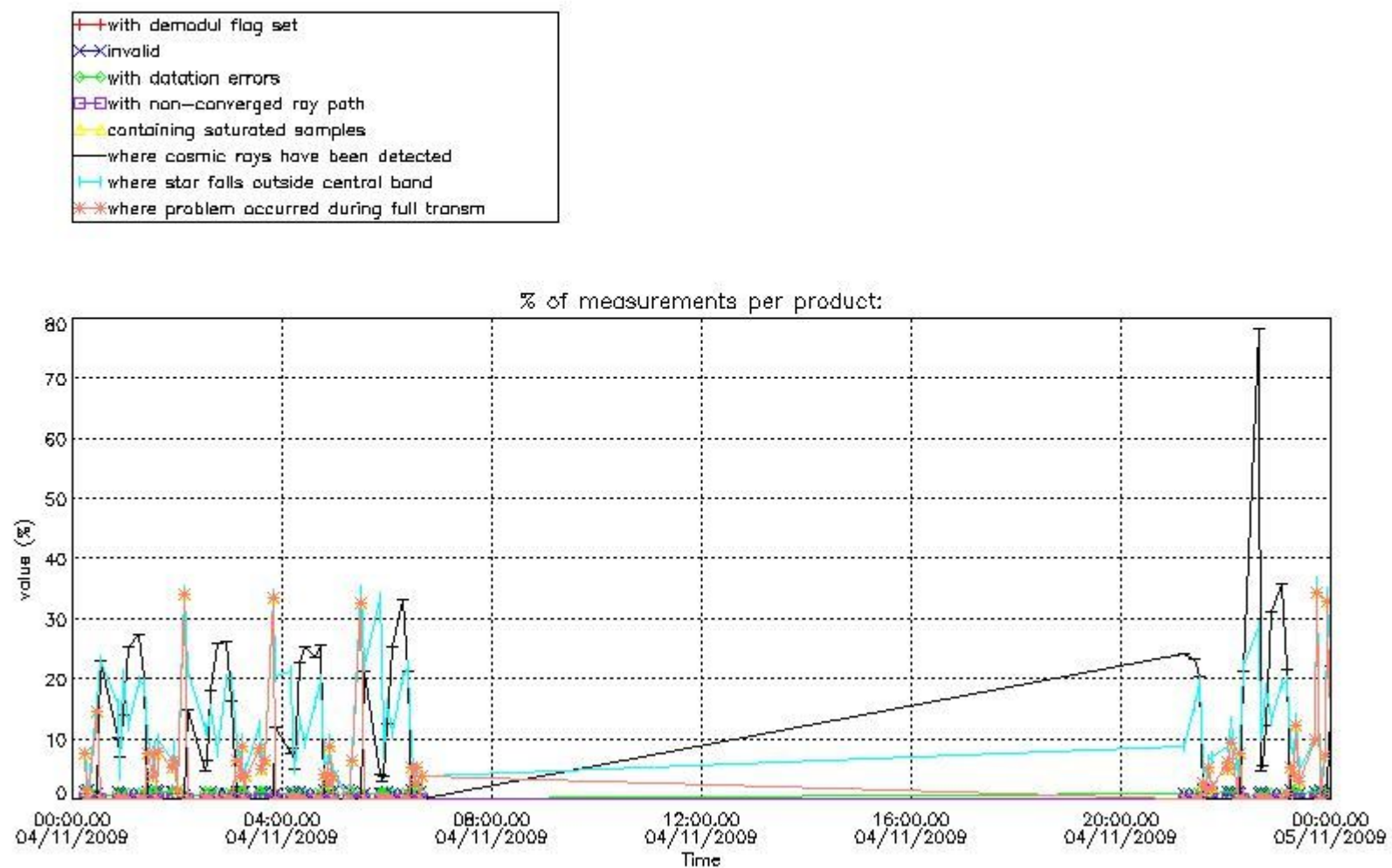
5. Demodulation flag and quality information monitoring

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.

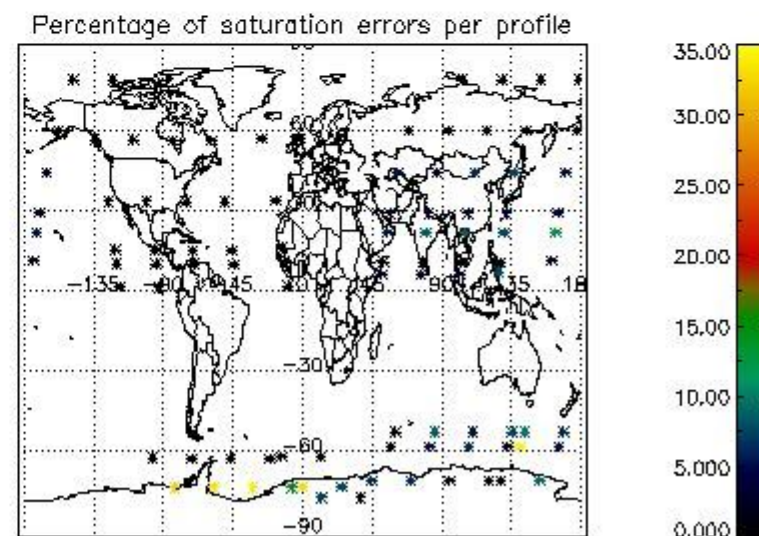
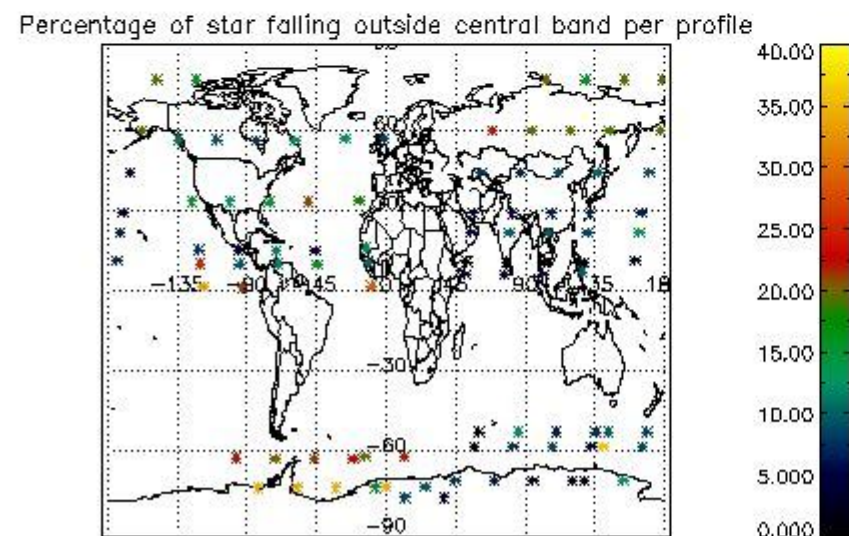
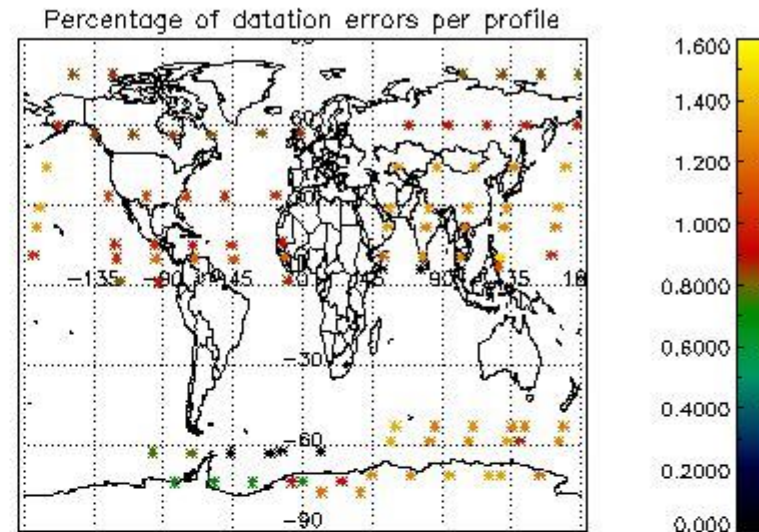
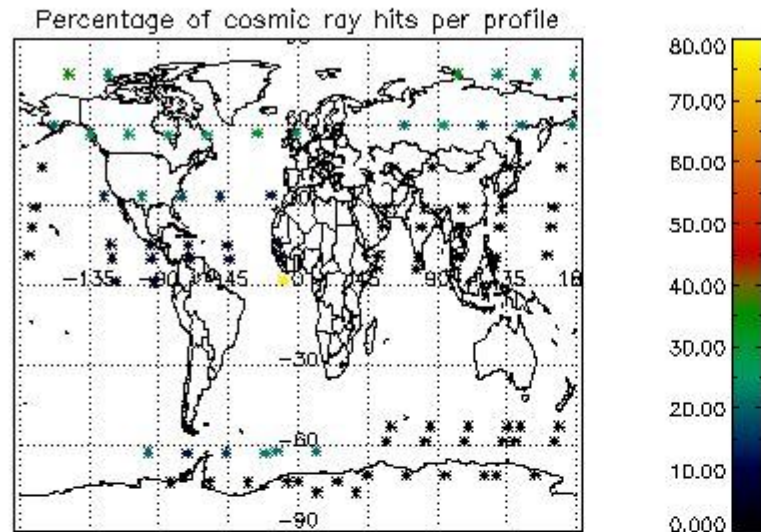
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	31.2500 %
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)



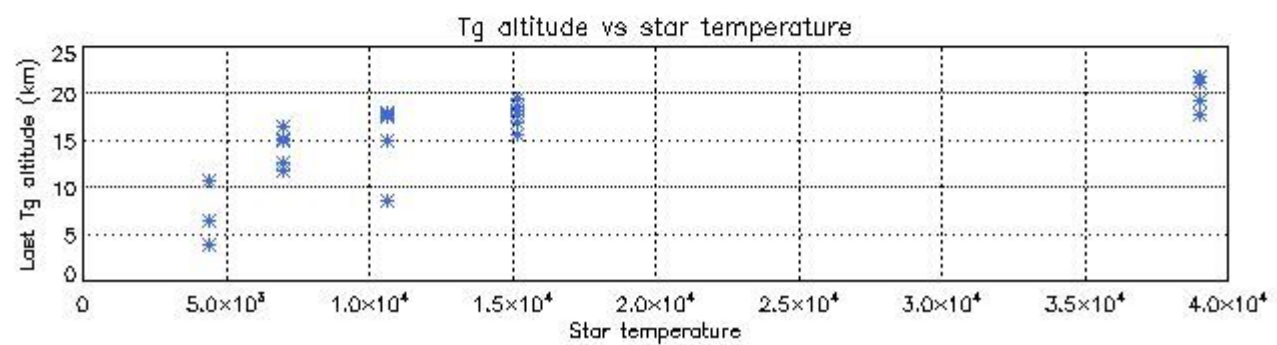
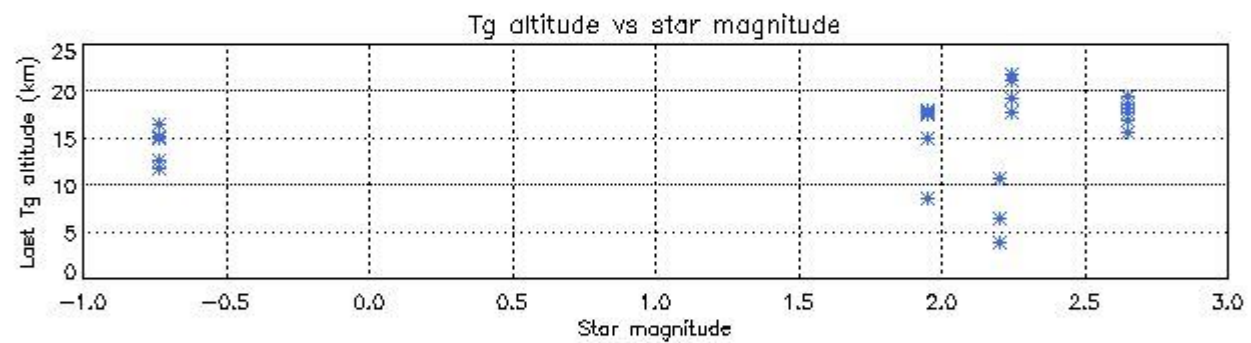
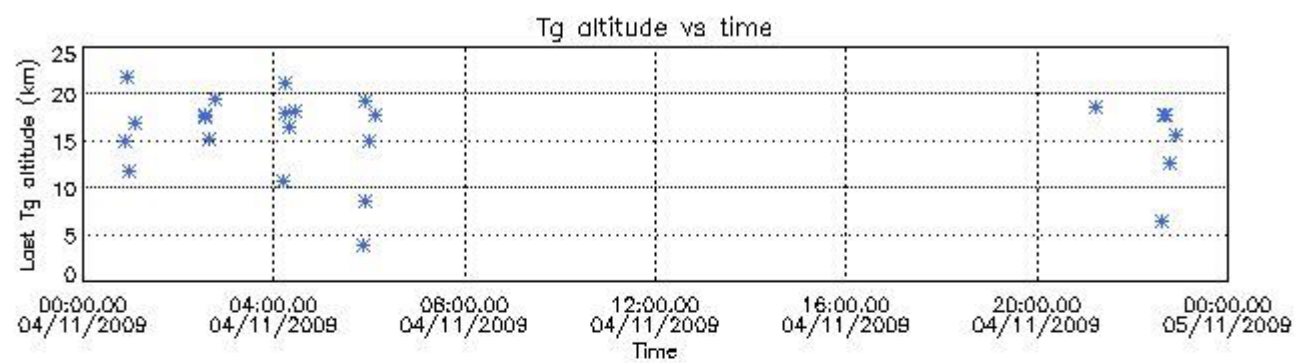
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.522	19.447	NaN
St. deviation:	4.4704	7.8283	NaN
Maximum:	21.769	45.696	NaN
Minimum:	3.8949	3.7386	NaN
Number of data:	24.000	57.000	NaN

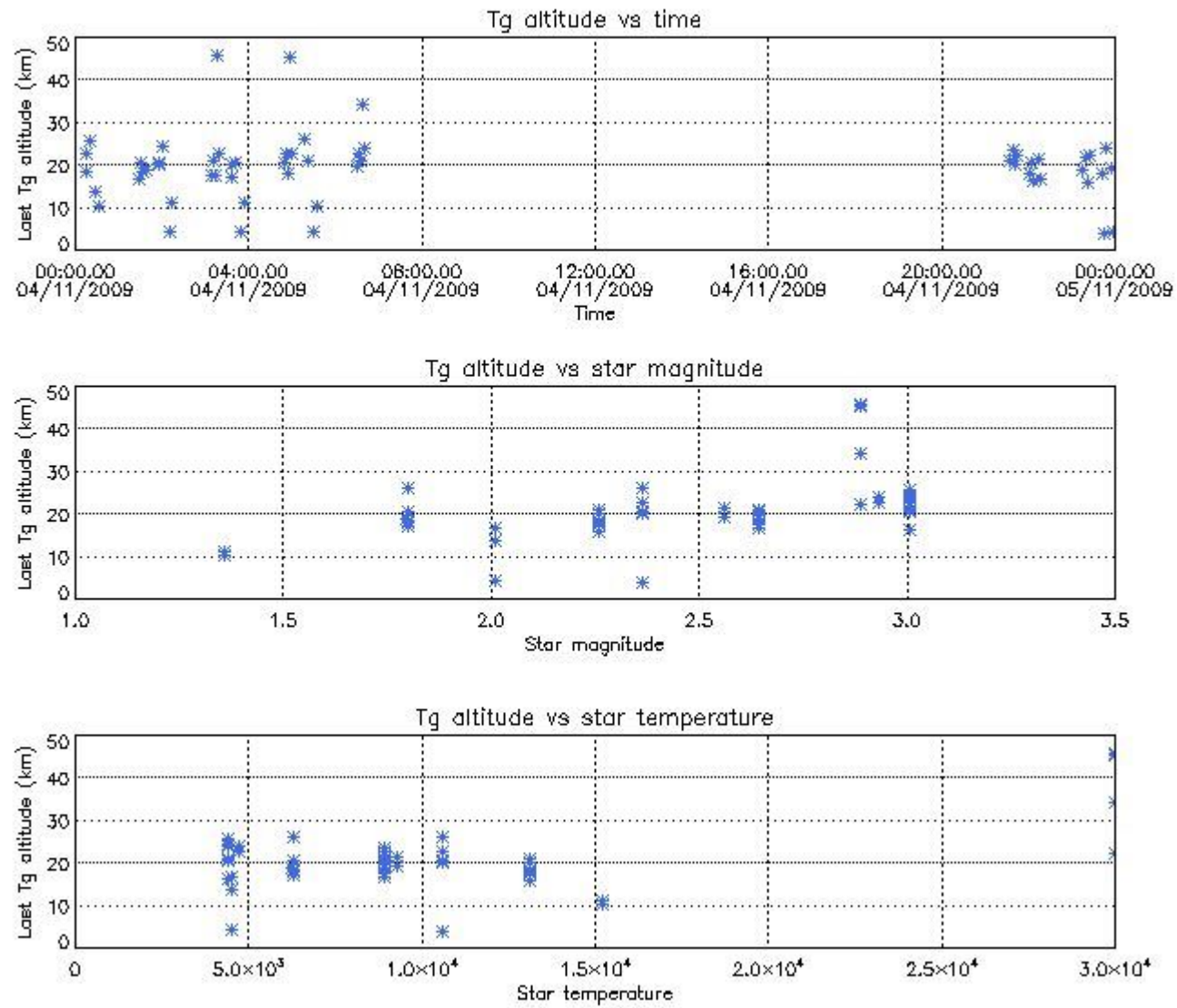
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

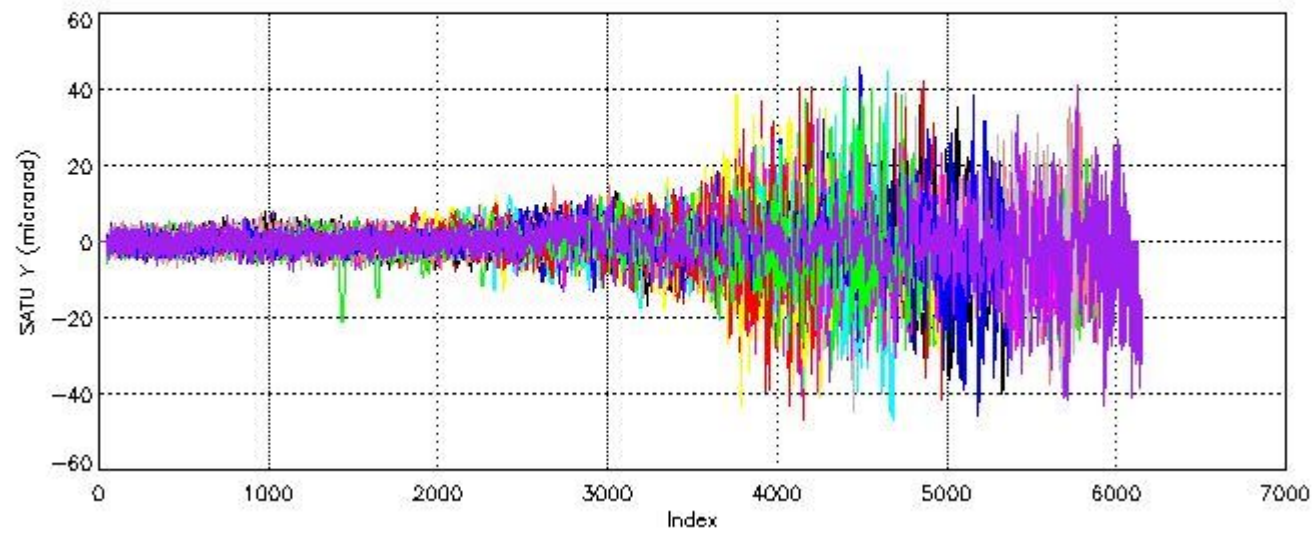
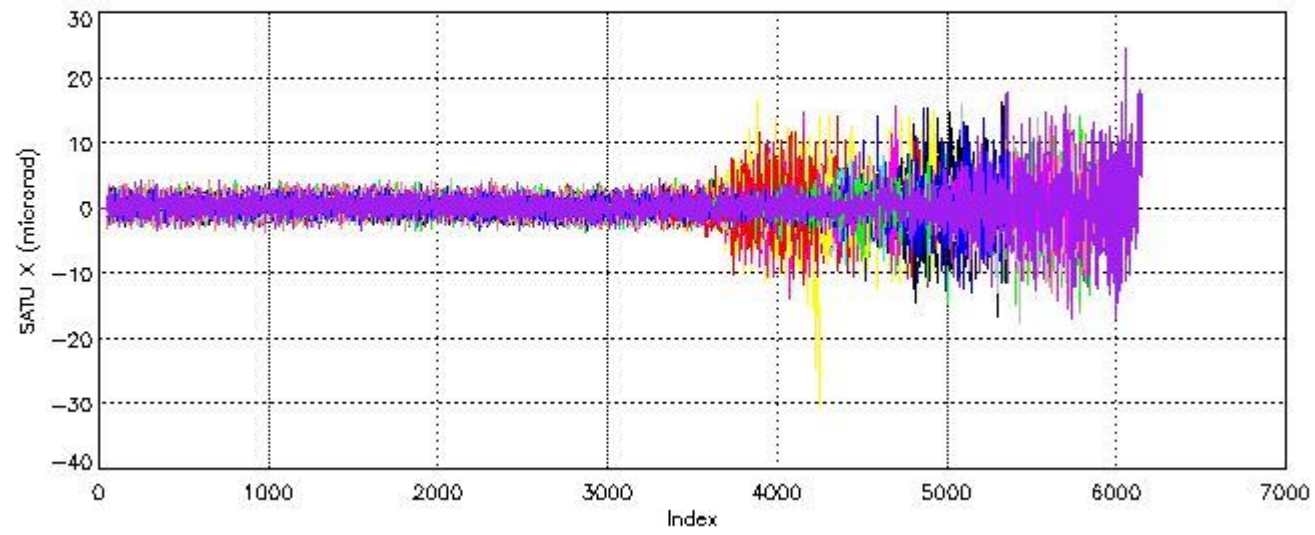


7. Star Acquisition and Tracking Unit (SATU)

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:	0.22807	-0.15652	0.18628	-0.22065
St. deviation:	0.65250	1.5278	0.87564	1.8394
Maximum:	4.3000	7.7000	7.0000	10.400
Minimum:	-3.7000	-7.9000	-6.1000	-15.600

Number of data:	27050.	27050.	56050.	56050.
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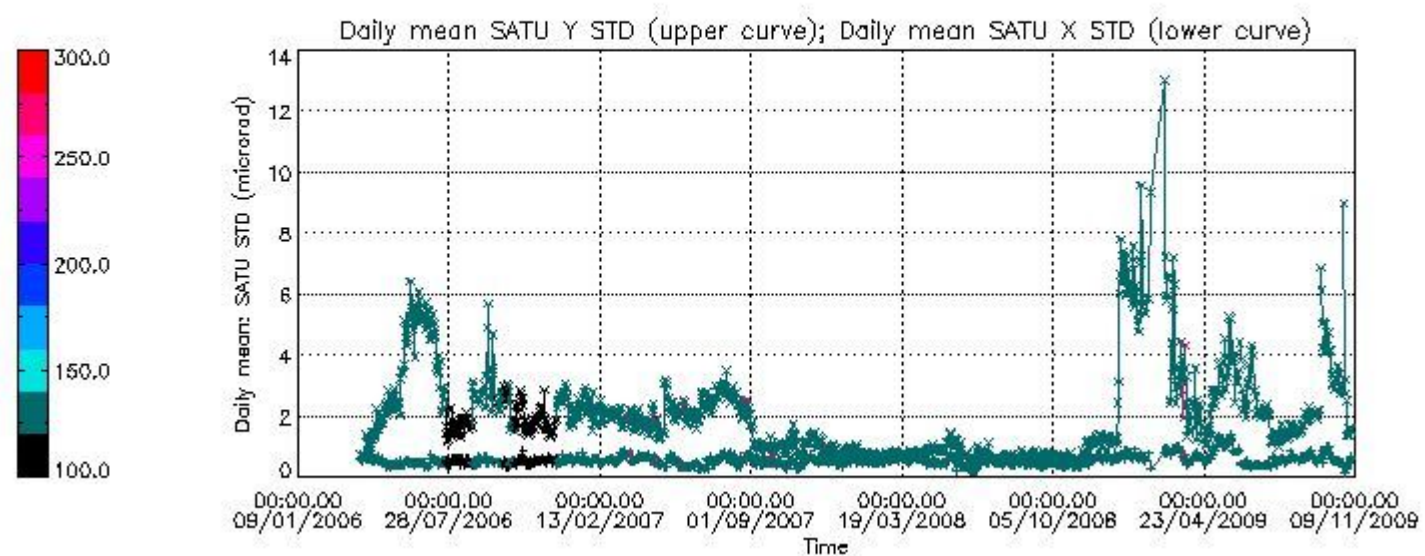
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

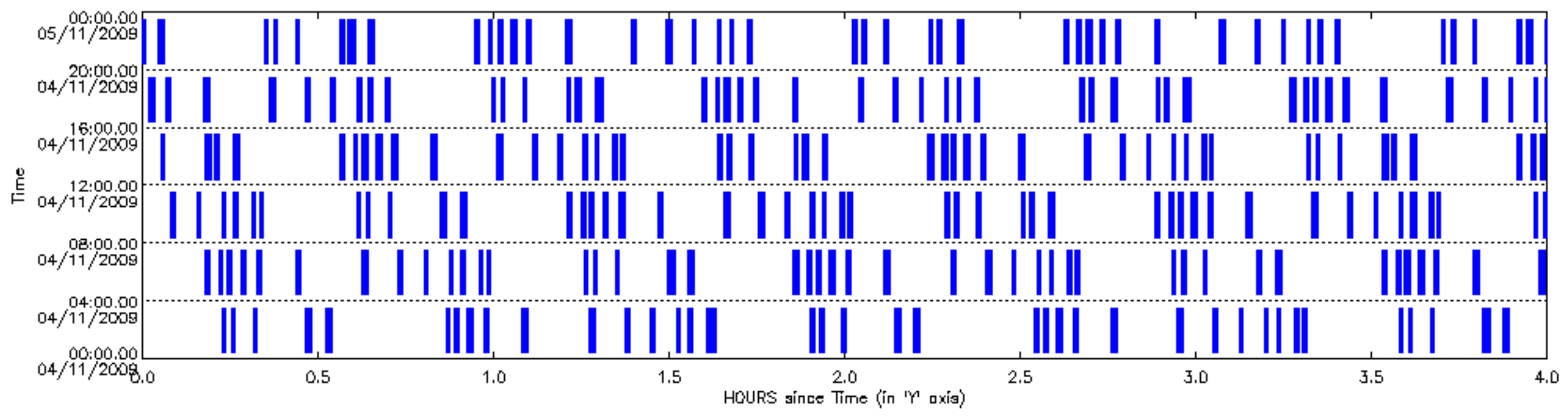
Lower curve: STD of SATU X axis

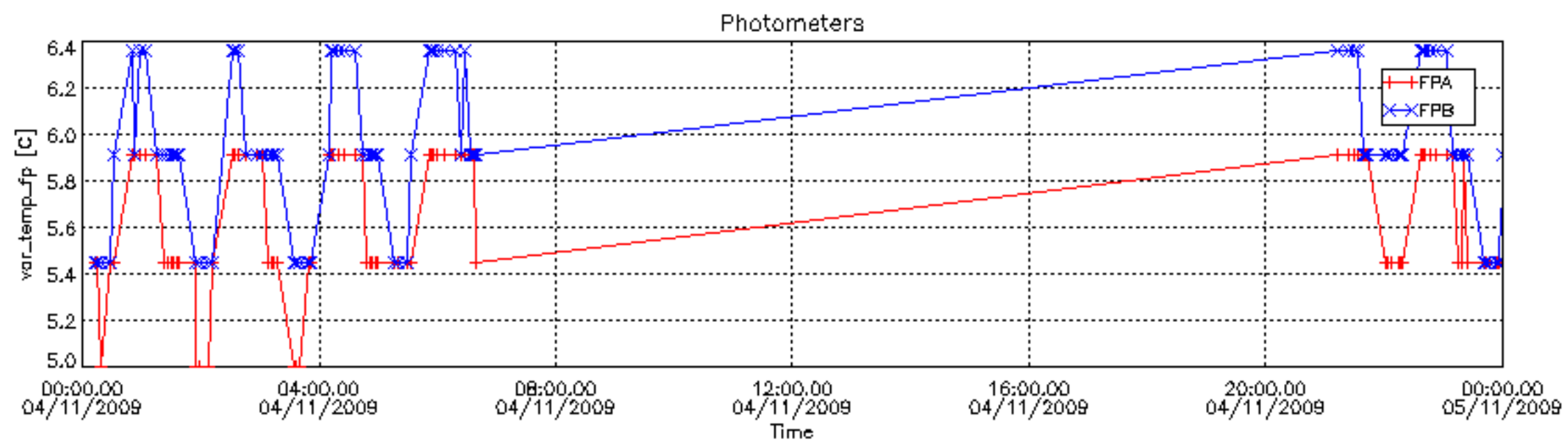
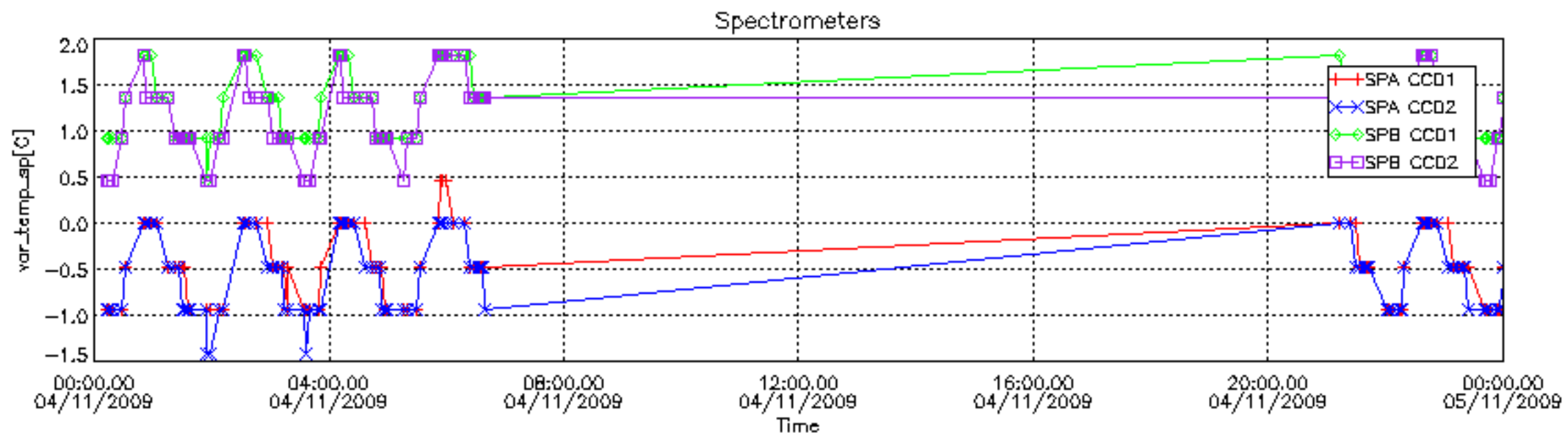


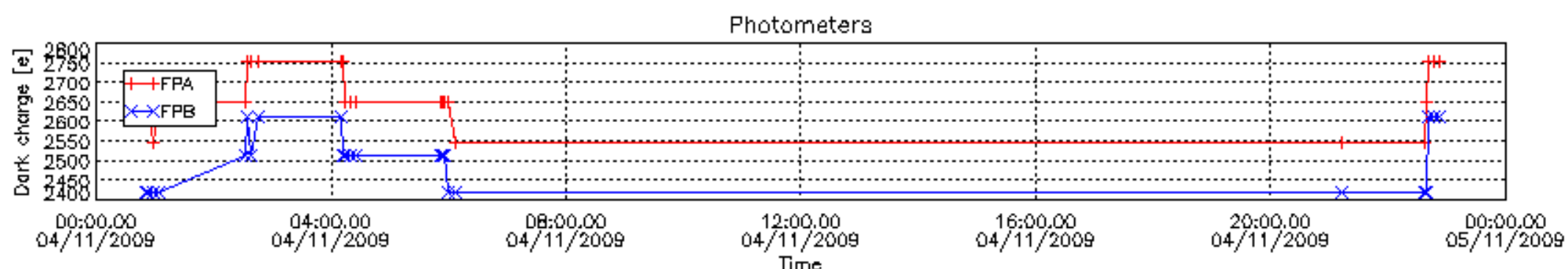
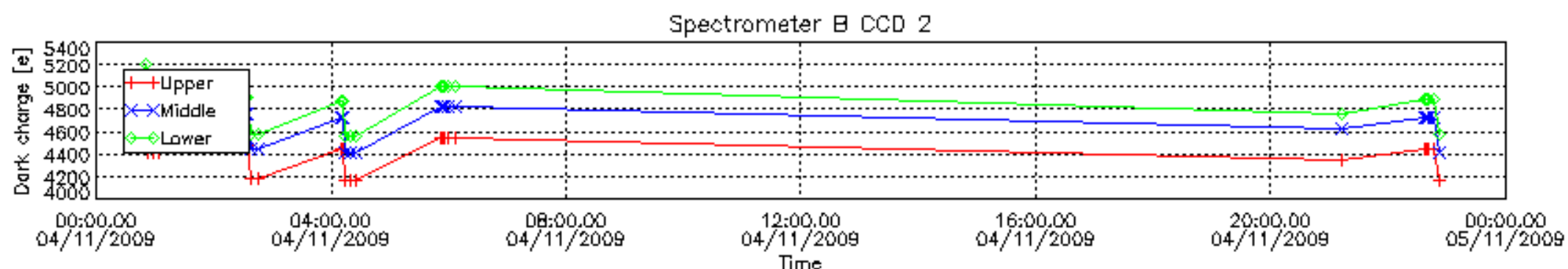
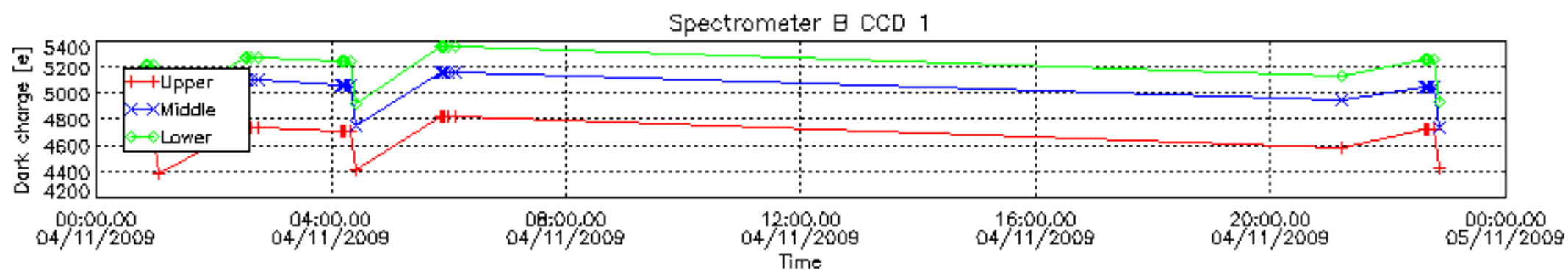
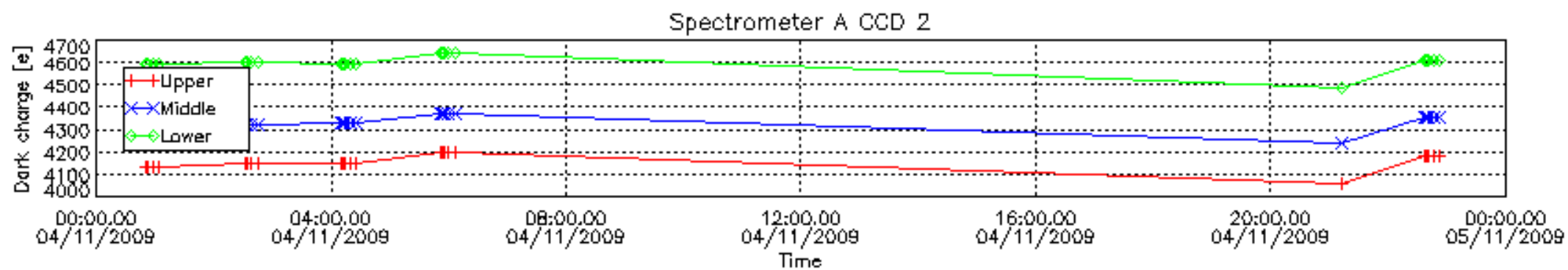
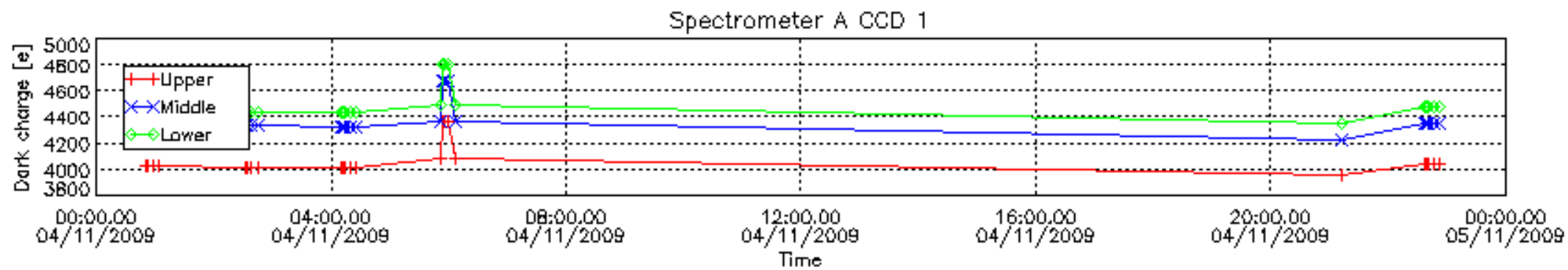
8. Auxiliary Data Files used for the production reported in section 2.4

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.

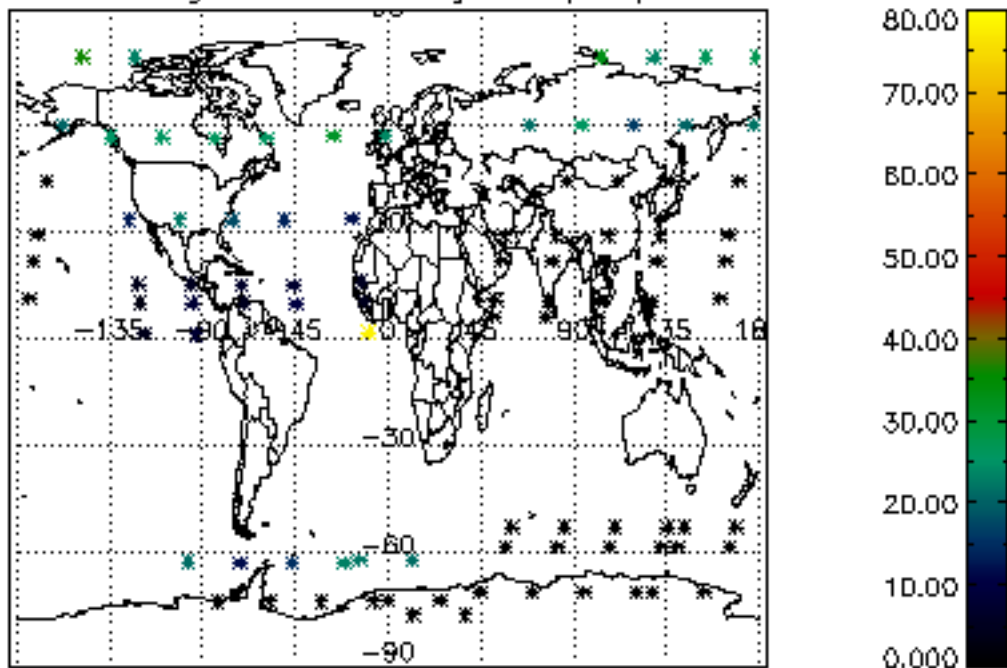
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	04-NOV-2009 00:13:32
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091029_082046_20091027_000000_20100101_000000	1	04-NOV-2009 00:13:32
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	04-NOV-2009 00:13:32
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	04-NOV-2009 00:13:32
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	04-NOV-2009 00:13:32
ECMWF_FILE	AUX_ECF_AXNECM20091103_064112_20091103_210000_20091104_090000	1	04-NOV-2009 00:13:32
ECMWF_FILE	AUX_ECF_AXNECM20091103_184113_20091104_030000_20091104_150000	33	04-NOV-2009 03:34:43
ECMWF_FILE	AUX_ECA_AXNECM20091104_062112_20091103_210000_20091104_090000	50	04-NOV-2009 05:15:19
ECMWF_FILE	AUX_ECF_AXNECM20091104_064114_20091104_210000_20091105_090000	67	04-NOV-2009 21:12:12
OPTIONAL_ECMWF_FILE	MISSING	1	04-NOV-2009 00:13:32
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091103_130113_20091103_112412_20091112_182350	1	04-NOV-2009 00:13:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091104_003609_000054192084_00016_40150_9098.N1	6	04-NOV-2009 00:51:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091104_021147_000041442084_00017_40151_9099.N1	22	04-NOV-2009 02:32:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091104_032610_000057382084_00018_40152_9100.N1	33	04-NOV-2009 03:34:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091104_050707_000057382084_00019_40153_9101.N1	50	04-NOV-2009 05:15:19
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091104_210848_000041442084_00029_40163_9102.N1	67	04-NOV-2009 21:12:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091104_221752_000060572084_00029_40163_9103.N1	80	04-NOV-2009 22:37:17



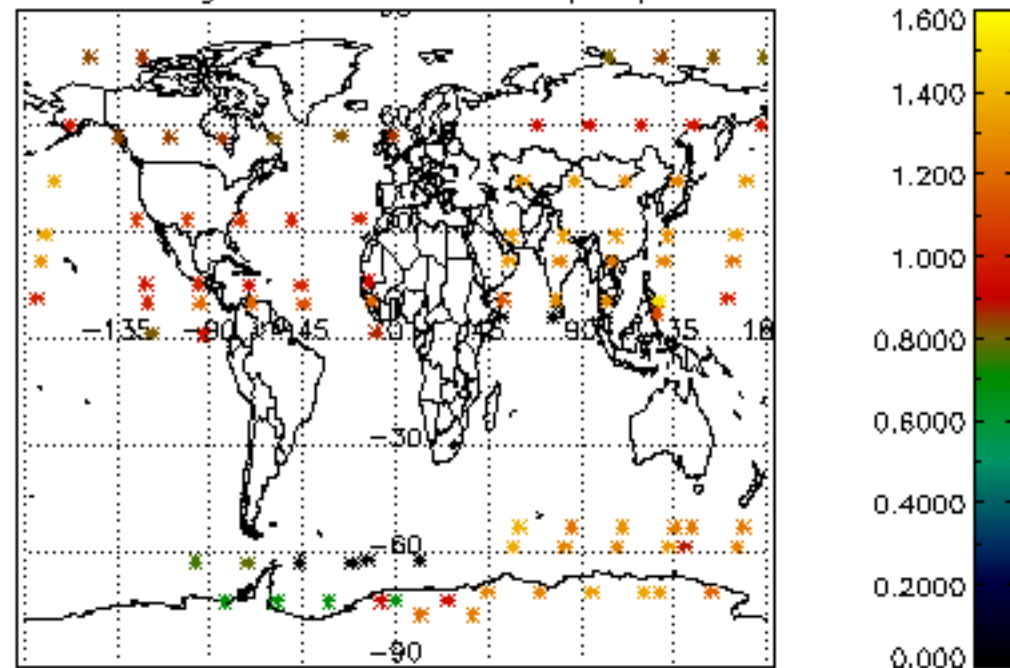




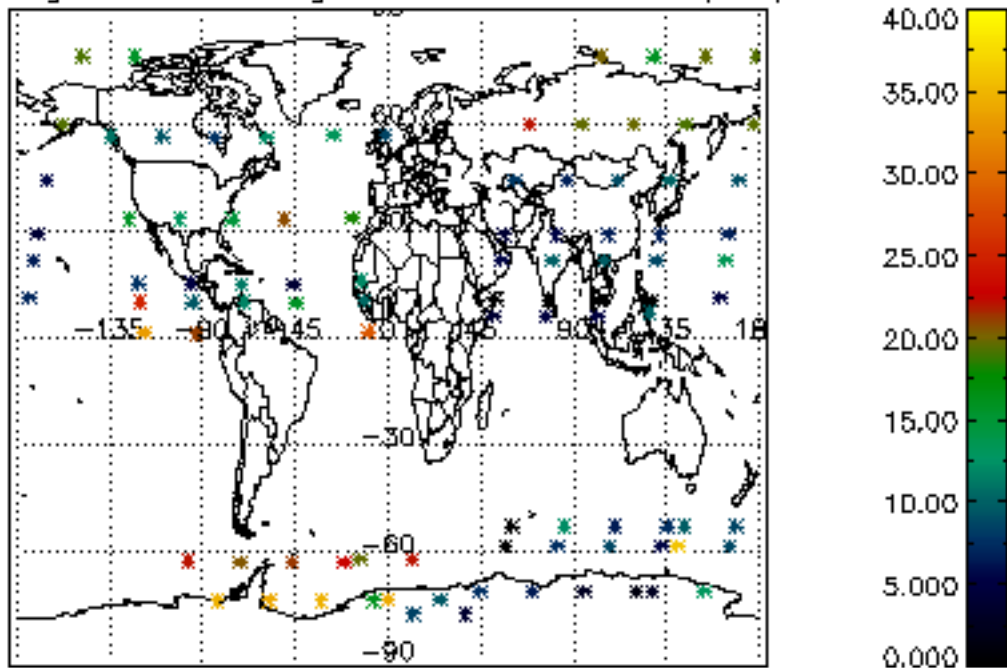
Percentage of cosmic ray hits per profile



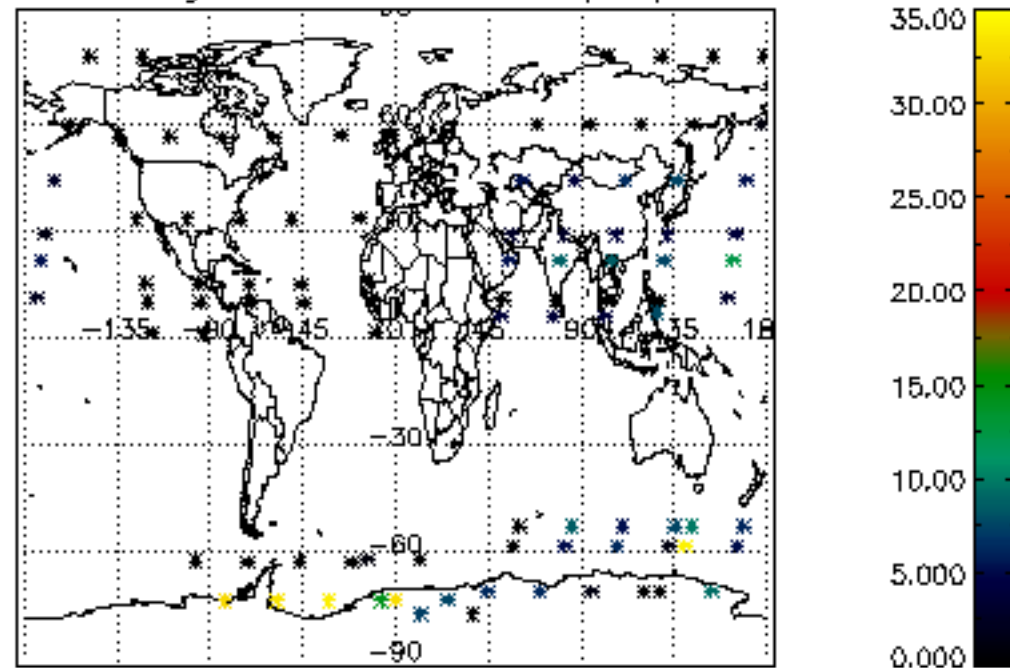
Percentage of datation errors per profile



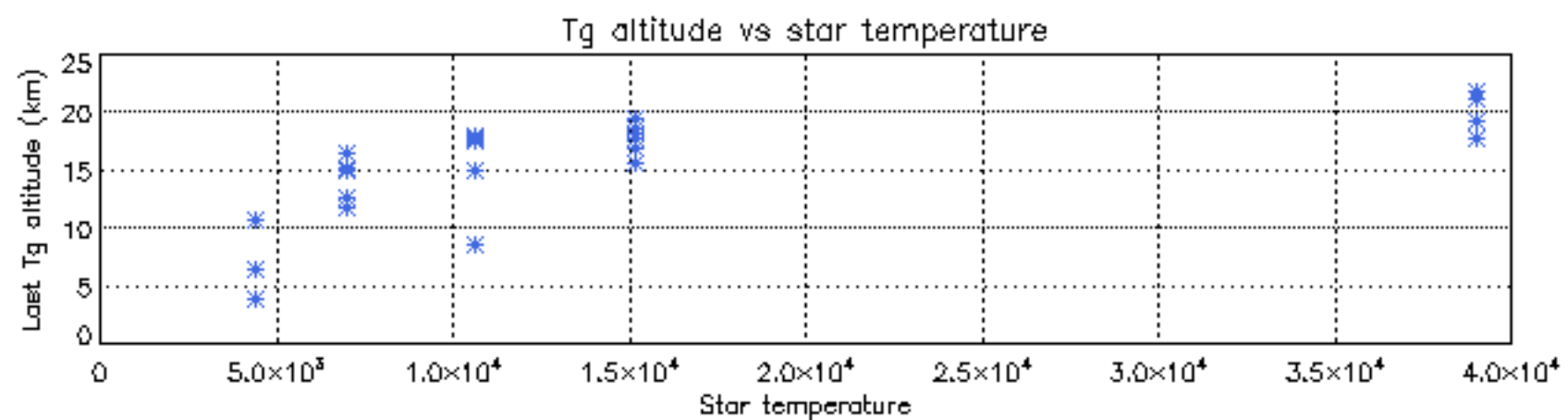
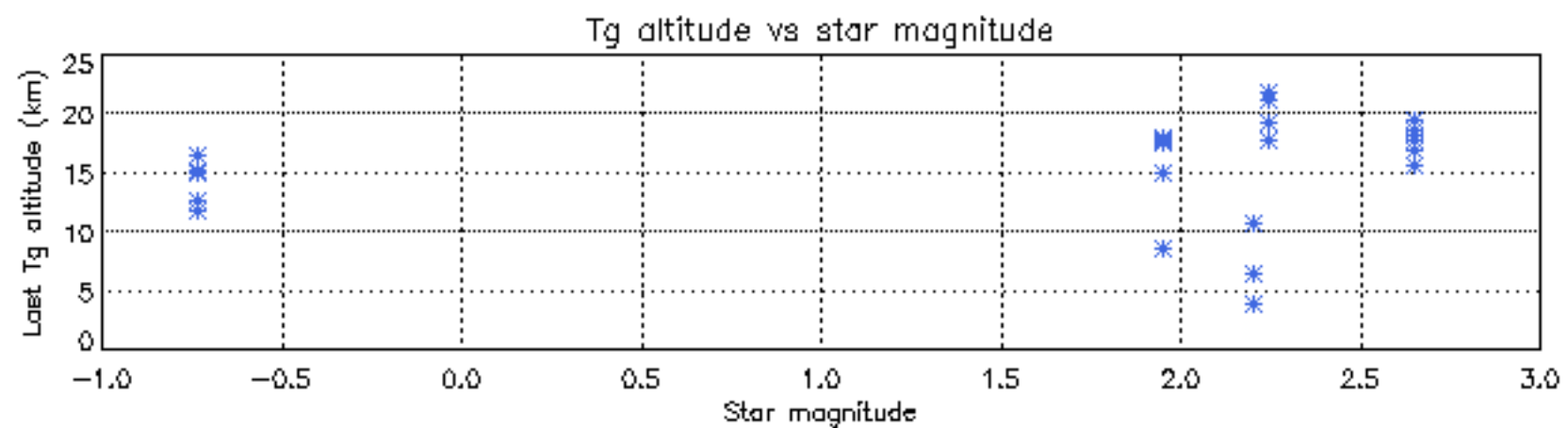
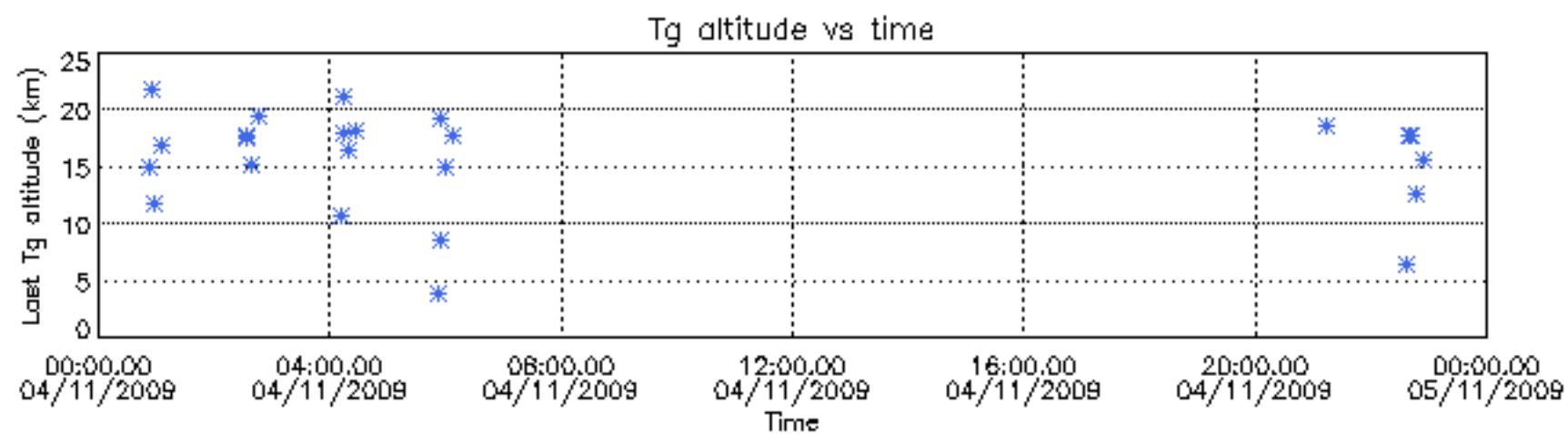
Percentage of star falling outside central band per profile



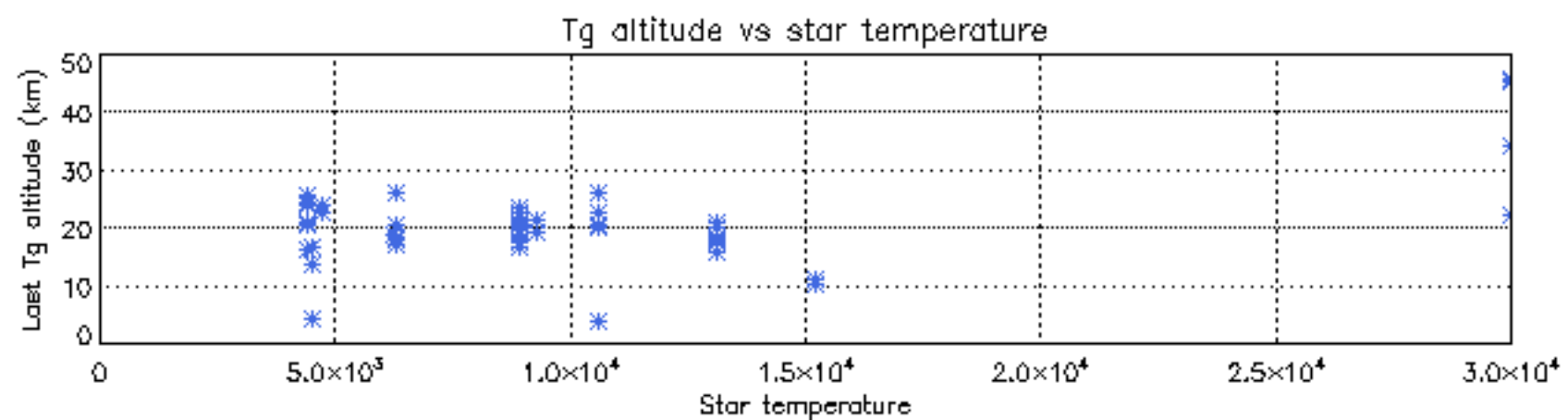
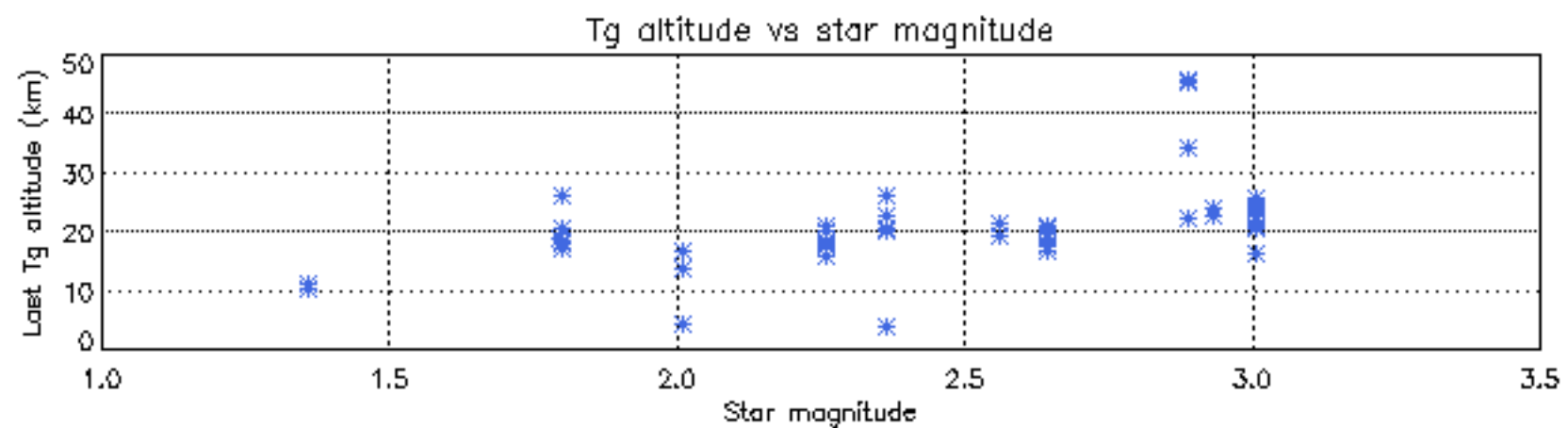
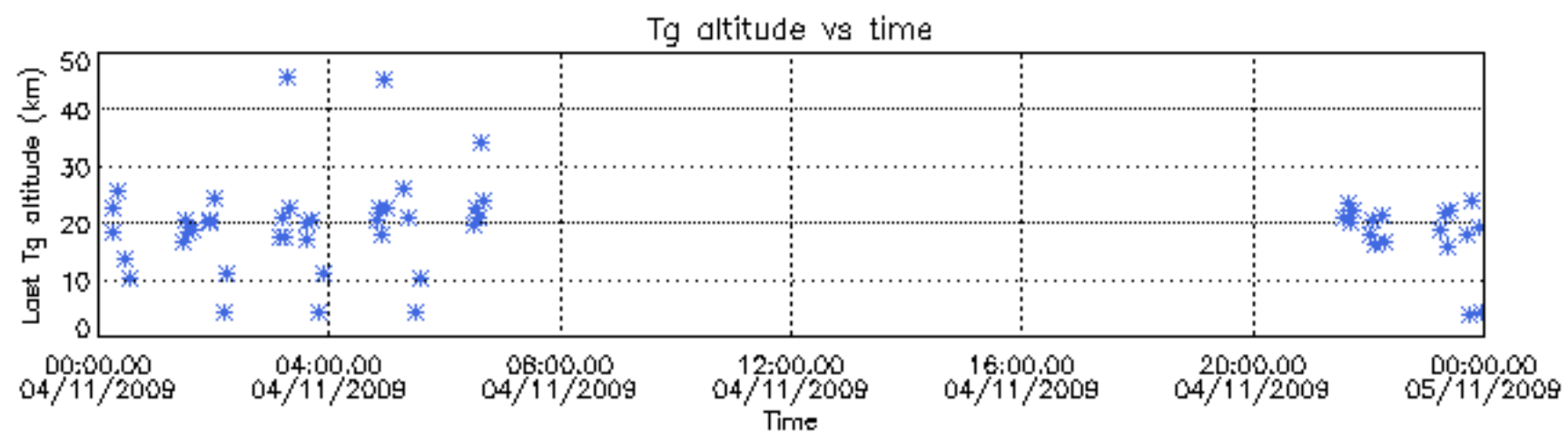
Percentage of saturation errors per profile

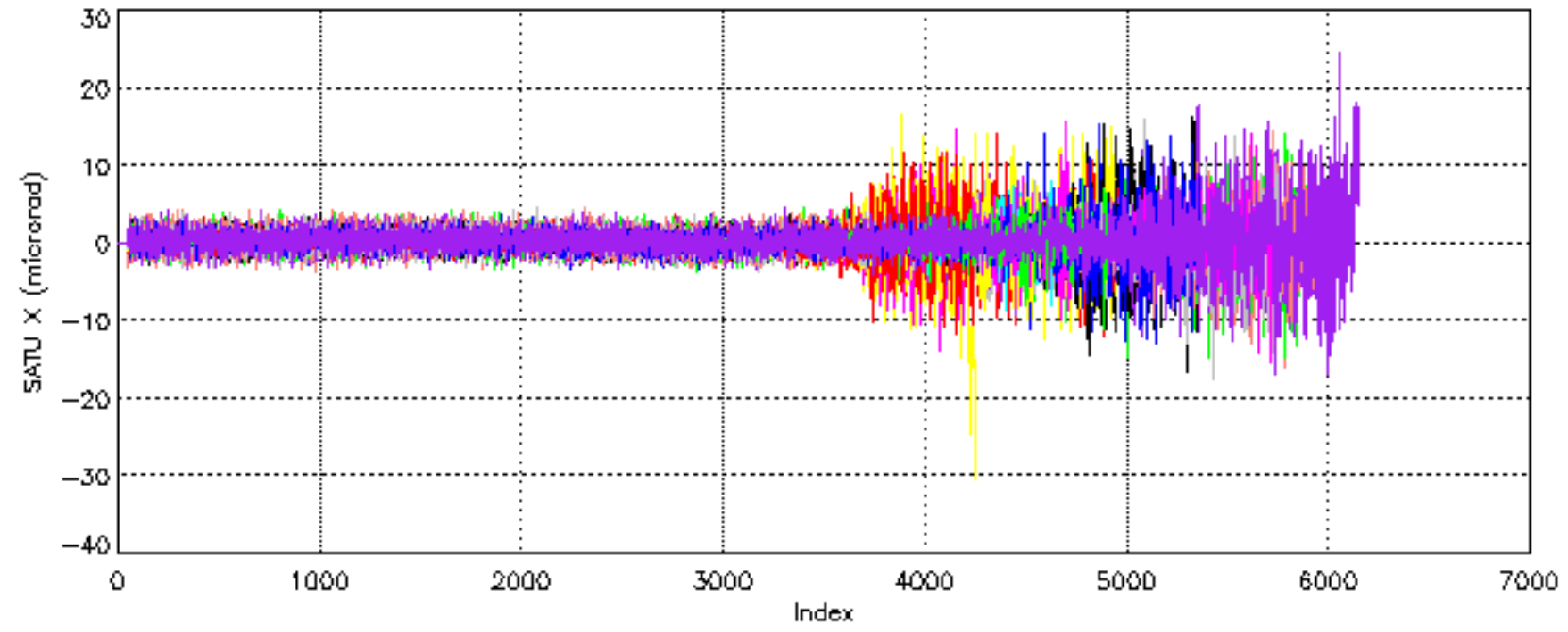


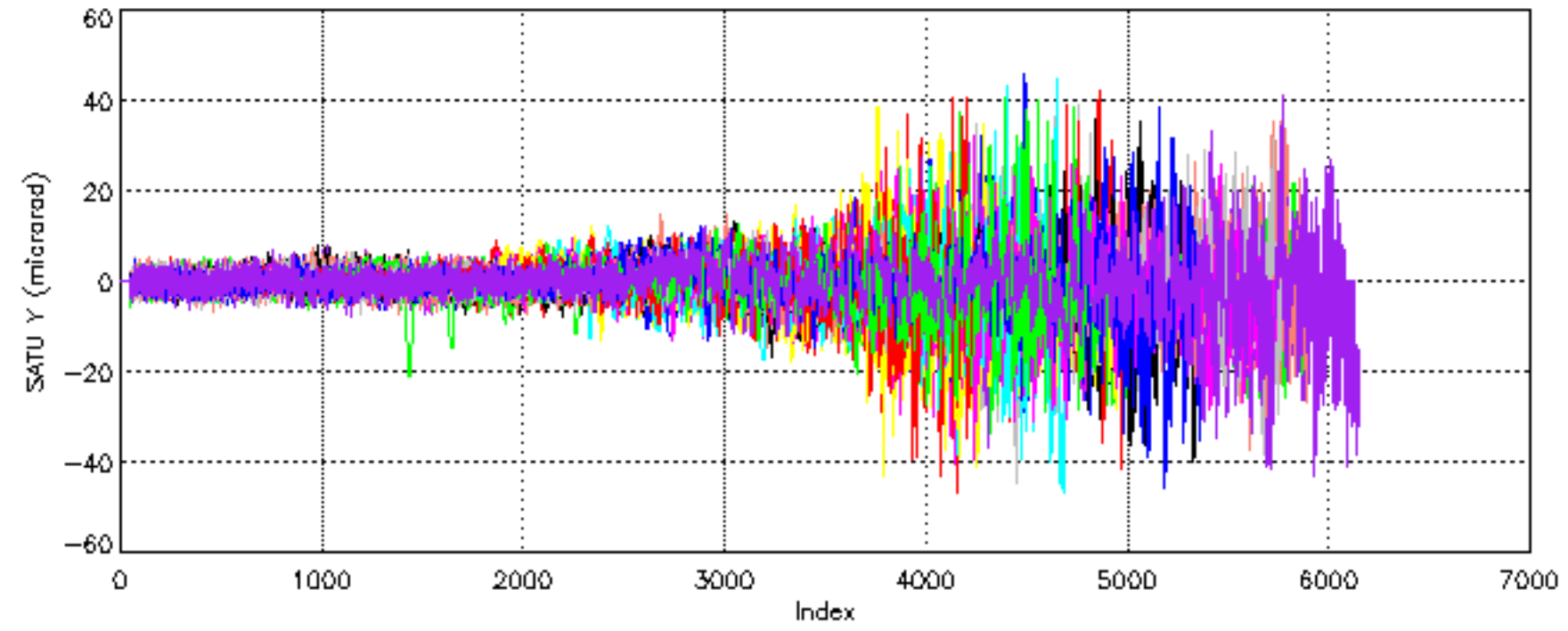
Tangent altitude at which the star is lost

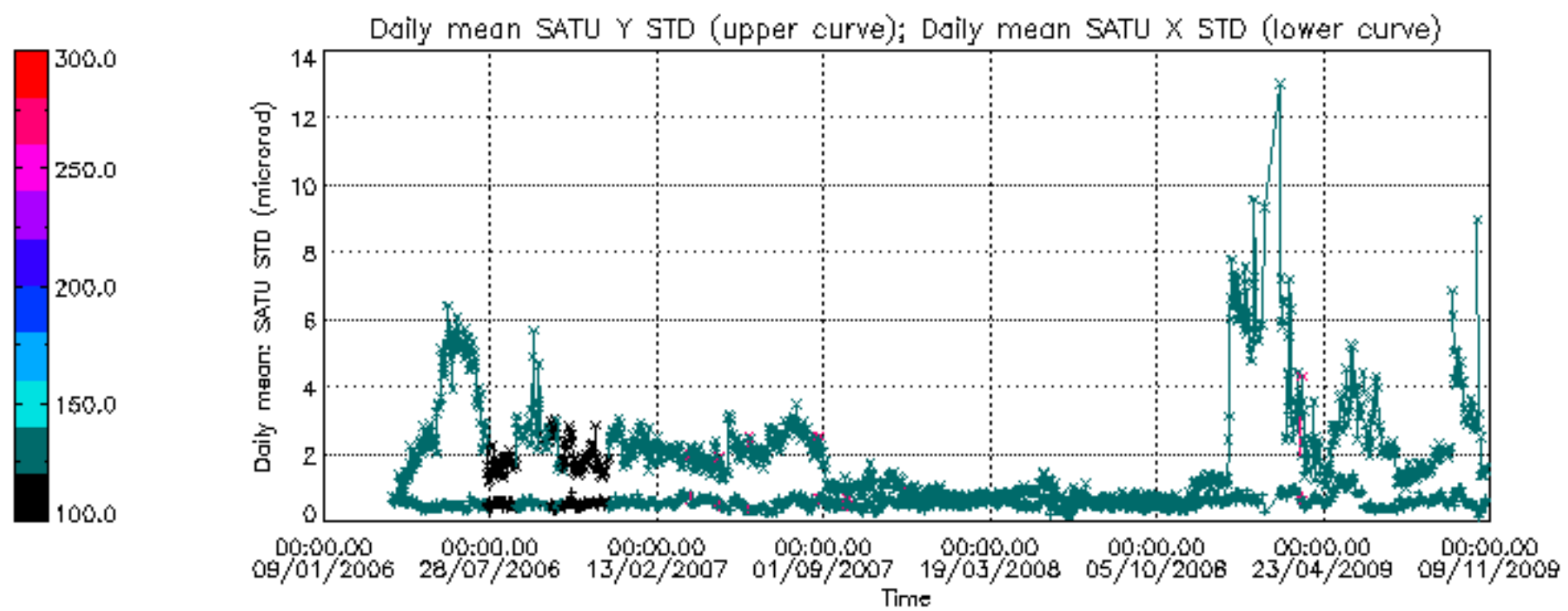


Tangent altitude at which the star is lost









/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
 4; -1325.9; 01-NOV-2009 03:42:21; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;40109
 5; -1096.7; 01-NOV-2009 03:46:10; Bright; 53.0; 22; 32Alp Leo ; 1.36; 15200;occ; 106; 0;40109
 6; -531.1; 01-NOV-2009 03:55:35; Dark ; 66.0; 48; 30Alp Hya ; 1.98; 4100;occ; 132; 0;40109
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 4; 2525.4; 04-NOV-2009 13:15:16; Bright; 38.0; 173; 4Bet Tri ; 3.00; 8900;occ; 76; 0;40158
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 11; 4686.8; 04-NOV-2009 13:51:18; Bright; 38.5; 96; 68Del Leo ; 2.56; 9300;occ; 77; 0;40158
 12; 4770.1; 04-NOV-2009 13:52:41; Bright; 57.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 115; 0;40158
 13; 4972.4; 04-NOV-2009 13:56:03; Dark ; 61.5; 22; 32Alp Leo ; 1.36; 15200;occ; 123; 0;40158
 14; 6061.7; 04-NOV-2009 14:14:13; Dark ; 52.0; 65; Lam Vel ; 2.20; 4400;occ; 104; 0;40158
 15; 6206.6; 04-NOV-2009 14:16:37; Dark ; 50.5; 46; Del Vel ; 1.95; 10600;occ; 101; 0;40158
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 5; 2648.0; 04-NOV-2009 14:57:55; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;40159
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 9; 4004.0; 04-NOV-2009 15:20:31; Bright; 37.5; 82; 48Bet UMA ; 2.37; 10600;occ; 75; 0;40159
 10; 4229.7; 04-NOV-2009 15:24:16; Bright; 38.5; 174; 52Psi UMA ; 3.00; 4400;occ; 77; 0;40159
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 14; 6062.8; 04-NOV-2009 15:54:50; Dark ; 54.0; 65; Lam Vel ; 2.20; 4400;occ; 108; 0;40159
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 16; 6298.5; 04-NOV-2009 15:58:45; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40159
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 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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 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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 13; 6063.8; 04-NOV-2009 17:35:27; Dark ; 53.5; 65; Lam Vel ; 2.20; 4400;occ; 107; 0;40160
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13; 6064.6; 04-NOV-2009 19:16:03; Dark ; 58.0; 65; Lam Vel ; 2.20; 4400;occ; 116; 0;40161
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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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4; 401.5; 05-NOV-2009 00:24:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40165
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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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5;-1262.1; 05-NOV-2009 03:17:32; Bright; 56.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 113; 0;40166
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6; 2727.9; 13-NOV-2009 11:55:17; Bright; 66.0; 149; 45Eps Per ; 2.89; 30000;occ; 132; 0;40286
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5; 2629.8; 13-NOV-2009 13:34:15; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;40287
6; 2727.4; 13-NOV-2009 13:35:53; Bright; 43.0; 149; 45Eps Per ; 2.89; 30000;occ; 86; 0;40287
7; 2827.3; 13-NOV-2009 13:37:33; Bright; 40.0; 35; 33Alp Per ; 1.79; 6250;occ; 80; 0;40287
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 9; 3947.4; 24-NOV-2009 21:33:12; Bright; 42.0; 82; 48Bet UMA ; 2.37; 10600;occ; 84; 0;40449
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 11; 4206.0; 24-NOV-2009 21:37:31; Bright; 30.0; 174; 52Psi UMA ; 3.00; 4400;occ; 60; 0;40449
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 21; 4014.5; 30-NOV-2009 23:26:24; Bright; 41.5; 32; 77Eps UMa ; 1.76; 11000;occ; 83; 0;40536
 22; 4187.8; 30-NOV-2009 23:29:17; Bright; 50.5; 174; 52Psi UMa ; 3.00; 4400;occ; 101; 0;40536
 23; 4347.9; 30-NOV-2009 23:31:57; Bright; 38.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 76; 0;40536
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 22; 4187.4; 01-DEC-2009 01:09:53; Bright; 50.5; 174; 52Psi UMa ; 3.00; 4400;occ; 101; 0;40537
 23; 4347.9; 01-DEC-2009 01:12:33; Bright; 40.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 80; 0;40537
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 7; 2619.3; 30-NOV-2009 07:57:45; Bright; 37.5; 149; 45Eps Per ; 2.89; 30000;occ; 75; 0;40527
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 9; 2967.6; 30-NOV-2009 08:03:34; Bright; 51.5; 42; 34Bet Aur ; 1.90; 10200;occ; 103; 0;40527
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 11; 3921.6; 30-NOV-2009 08:19:28; Bright; 43.0; 82; 48Bet UMa ; 2.37; 10600;occ; 86; 0;40527
 12; 4015.5; 30-NOV-2009 08:21:02; Bright; 38.0; 32; 77Eps UMa ; 1.76; 11000;occ; 76; 0;40527
 13; 4190.0; 30-NOV-2009 08:23:56; Bright; 76.0; 174; 52Psi UMa ; 3.00; 4400;occ; 152; 0;40527
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 13; 4190.1; 30-NOV-2009 10:04:32; Bright; 49.5; 174; 52Psi UMa ; 3.00; 4400;occ; 99; 0;40528
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 22; 6738.1; 30-NOV-2009 10:47:00; Dark ; 55.5; 70; Zet Pup ; 2.25; 39000;occ; 111; 0;40528
 23; 6947.9; 30-NOV-2009 10:50:30; Dark ; 67.0; 117; Pi Pup ; 2.71; 3800;occ; 134; 0;40528
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 23; 6739.0; 30-NOV-2009 12:27:37; Dark ; 56.0; 70; Zet Pup ; 2.25; 39000;occ; 112; 0;40529
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