

GOMOS Daily Report 19-OCT-2010

Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	23OCT2010 04:40:25
Data source version	GOMOS/5.01
Start time of products	19OCT2010 00:18:40
Stop time of products	19OCT2010 23:56:20
Store outputs in DB	Yes
Nb of level 1b prods	90
Nb of prods with errors	0

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

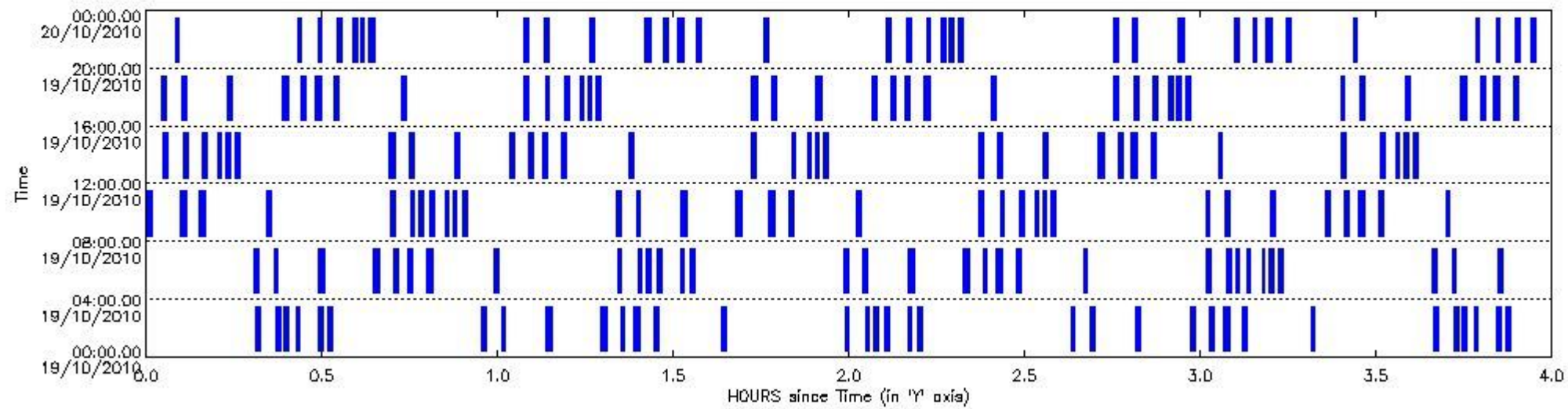
2.1 Level 0 products arrived in PCF (see template [here](#))

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.

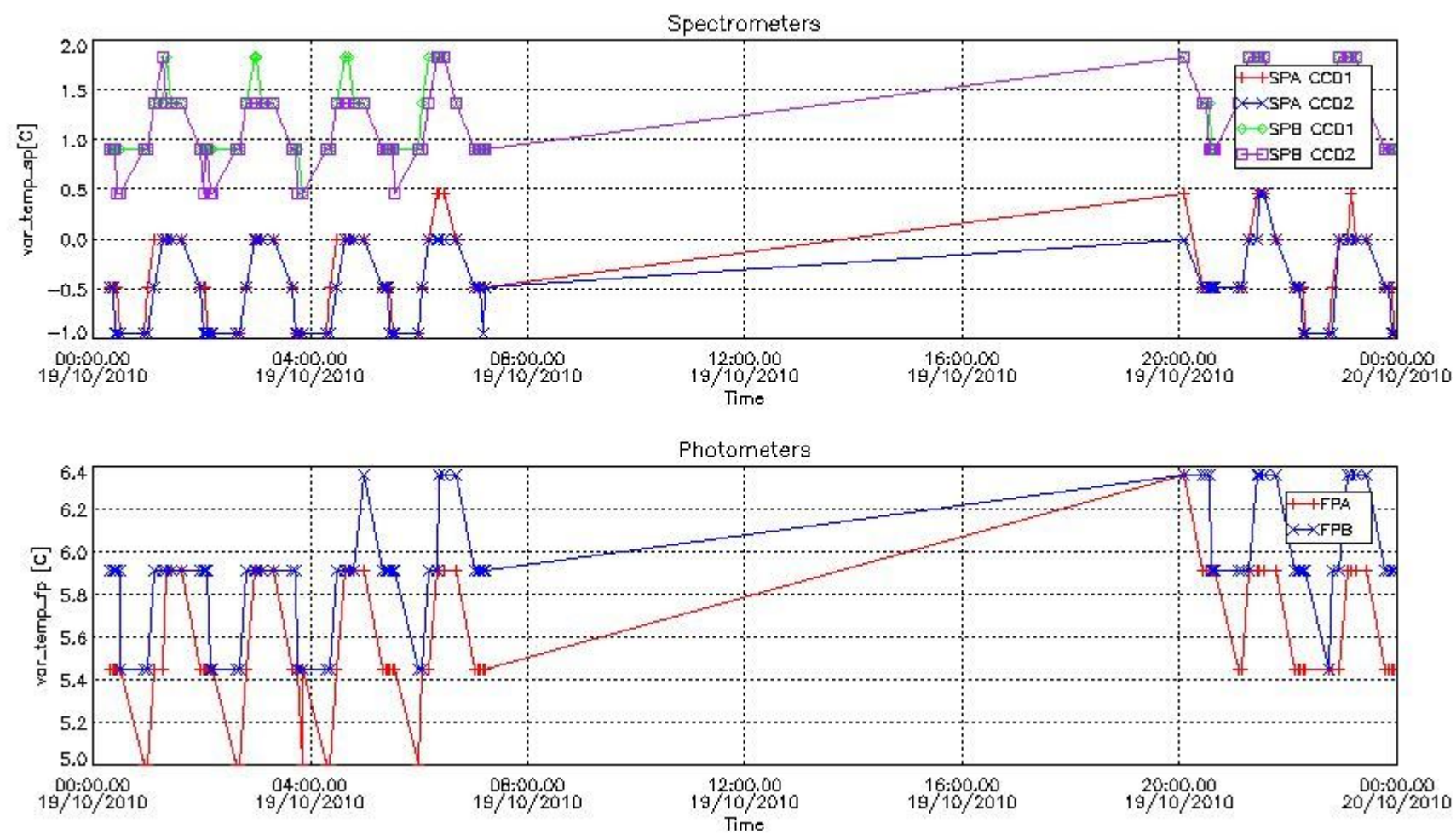
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20101019_001840_000000452094_00002_45146_2973.N1	19-OCT-2010 00:18:40	Bright	45.000	105	6Bet Ari	2.6450	8900.0	90	45146	No
2	GOM_TRA_1PNPDE20101019_002213_000000402094_00002_45146_2974.N1	19-OCT-2010 00:22:13	Bright	39.500	53	43Bet And	2.0480	3300.0	79	45146	No
3	GOM_TRA_1PNPDE20101019_002335_000000442094_00002_45146_2975.N1	19-OCT-2010 00:23:35	Bright	44.000	173	4Bet Tri	3.0040	8900.0	88	45146	No
4	GOM_TRA_1PNPDE20101019_002530_000000442094_00002_45146_2976.N1	19-OCT-2010 00:25:30	Bright	44.000	73	57Gam1And	2.2600	13100.	88	45146	No
5	GOM_TRA_1PNPDE20101019_002926_000000392094_00002_45146_2977.N1	19-OCT-2010 00:29:26	Bright	38.500	110	37Del Cas	2.6780	8900.0	77	45146	No
6	GOM_TRA_1PNPDE20101019_003058_000000482094_00002_45146_2978.N1	19-OCT-2010 00:30:58	Bright	47.500	35	33Alp Per	1.7950	6250.0	95	45146	No
7	GOM_TRA_1PNPDE20101019_005716_000000442094_00002_45146_2979.N1	19-OCT-2010 00:57:16	Bright	44.000	166	17Eps Leo	2.9800	6000.0	88	45146	No
8	GOM_TRA_1PNPDE20101019_010036_000000422094_00002_45146_2980.N1	19-OCT-2010 01:00:36	Bright	42.000	22	32Alp Leo	1.3600	15200.	84	45146	No
9	GOM_TRA_1PNPDE20101019_010816_000000572094_00002_45146_2999.N1	19-OCT-2010 01:08:16	Dark	56.500	48	30Alp Hya	1.9770	4100.0	113	45146	No
10	GOM_TRA_1PNPDE20101019_011737_000000562094_00002_45146_3000.N1	19-OCT-2010 01:17:37	Dark	56.000	132	15Rho Pup	2.8030	6900.0	112	45146	No
11	GOM_TRA_1PNPDE20101019_012100_000000432094_00003_45147_3001.N1	19-OCT-2010 01:21:00	Dark	43.000	34	Gam2Vel	1.7930	23000.	86	45147	No
12	GOM_TRA_1PNPDE20101019_012639_000000462094_00003_45147_3002.N1	19-OCT-2010 01:26:39	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	45147	No

13	GOM_TRA_1PNPDE20101019_013812_000000432094_00003_45147_3003.N1	19-OCT-2010 01:38:12	Straylight	43.000	157	The1Eri	2.9060	9300.0	86	45147	No
14	GOM_TRA_1PNPDE20101019_015915_000000452094_00003_45147_3004.N1	19-OCT-2010 01:59:15	Bright	45.000	105	6Bet Ari	2.6450	8900.0	90	45147	No
15	GOM_TRA_1PNPDE20101019_020248_000000432094_00003_45147_3005.N1	19-OCT-2010 02:02:48	Bright	42.500	53	43Bet And	2.0480	3300.0	85	45147	No
16	GOM_TRA_1PNPDE20101019_020411_000000452094_00003_45147_3006.N1	19-OCT-2010 02:04:11	Bright	44.500	173	4Bet Tri	3.0040	8900.0	89	45147	No
17	GOM_TRA_1PNPDE20101019_020605_000000442094_00003_45147_3007.N1	19-OCT-2010 02:06:05	Bright	44.000	73	57Gam1And	2.2600	13100.	88	45147	No
18	GOM_TRA_1PNPDE20101019_021001_000000392094_00003_45147_3008.N1	19-OCT-2010 02:10:01	Bright	39.000	110	37Del Cas	2.6780	8900.0	78	45147	No
19	GOM_TRA_1PNPDE20101019_021134_000000512094_00003_45147_3009.N1	19-OCT-2010 02:11:34	Bright	51.000	35	33Alp Per	1.7950	6250.0	102	45147	No
20	GOM_TRA_1PNPDE20101019_023752_000000442094_00003_45147_3010.N1	19-OCT-2010 02:37:52	Bright	43.500	166	17Eps Leo	2.9800	6000.0	87	45147	No
21	GOM_TRA_1PNPDE20101019_024112_000000432094_00003_45147_3011.N1	19-OCT-2010 02:41:12	Bright	43.000	22	32Alp Leo	1.3600	15200.	86	45147	No
22	GOM_TRA_1PNPDE20101019_024852_000000512094_00003_45147_3012.N1	19-OCT-2010 02:48:52	Dark	50.500	48	30Alp Hya	1.9770	4100.0	101	45147	No
23	GOM_TRA_1PNPDE20101019_025814_000000552094_00003_45147_3013.N1	19-OCT-2010 02:58:14	Dark	54.500	132	15Rho Pup	2.8030	6900.0	109	45147	No
24	GOM_TRA_1PNPDE20101019_030137_000000442094_00004_45148_3014.N1	19-OCT-2010 03:01:37	Dark	43.500	34	Gam2Vel	1.7930	23000.	87	45148	No
25	GOM_TRA_1PNPDE20101019_030716_000000472094_00004_45148_3015.N1	19-OCT-2010 03:07:16	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	45148	No
26	GOM_TRA_1PNPDE20101019_031849_000000422094_00004_45148_3016.N1	19-OCT-2010 03:18:49	Straylight	42.000	157	The1Eri	2.9060	9300.0	84	45148	No
27	GOM_TRA_1PNPDE20101019_033951_000000462094_00004_45148_3017.N1	19-OCT-2010 03:39:51	Bright	45.500	105	6Bet Ari	2.6450	8900.0	91	45148	No
28	GOM_TRA_1PNPDE20101019_034324_000000392094_00004_45148_3018.N1	19-OCT-2010 03:43:24	Bright	38.500	53	43Bet And	2.0480	3300.0	77	45148	No
29	GOM_TRA_1PNPDE20101019_034446_000000442094_00004_45148_3019.N1	19-OCT-2010 03:44:46	Bright	44.000	173	4Bet Tri	3.0040	8900.0	88	45148	No
30	GOM_TRA_1PNPDE20101019_034640_000000462094_00004_45148_3020.N1	19-OCT-2010 03:46:40	Bright	45.500	73	57Gam1And	2.2600	13100.	91	45148	No
31	GOM_TRA_1PNPDE20101019_035037_000000382094_00004_45148_3030.N1	19-OCT-2010 03:50:37	Bright	38.000	110	37Del Cas	2.6780	8900.0	76	45148	No
32	GOM_TRA_1PNPDE20101019_035209_000000522094_00004_45148_3031.N1	19-OCT-2010 03:52:09	Bright	51.500	35	33Alp Per	1.7950	6250.0	103	45148	No
33	GOM_TRA_1PNPDE20101019_041828_000000452094_00004_45148_3032.N1	19-OCT-2010 04:18:28	Bright	44.500	166	17Eps Leo	2.9800	6000.0	89	45148	No
34	GOM_TRA_1PNPDE20101019_042149_000000432094_00004_45148_3033.N1	19-OCT-2010 04:21:49	Bright	42.500	22	32Alp Leo	1.3600	15200.	85	45148	No
35	GOM_TRA_1PNPDE20101019_042929_000000522094_00004_45148_3034.N1	19-OCT-2010 04:29:29	Dark	52.000	48	30Alp Hya	1.9770	4100.0	104	45148	No
36	GOM_TRA_1PNPDE20101019_043851_000000552094_00004_45148_3035.N1	19-OCT-2010 04:38:51	Dark	55.000	132	15Rho Pup	2.8030	6900.0	110	45148	No
37	GOM_TRA_1PNPDE20101019_044214_000000462094_00005_45149_3036.N1	19-OCT-2010 04:42:14	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	45149	No
38	GOM_TRA_1PNPDE20101019_044753_000000622094_00005_45149_3037.N1	19-OCT-2010 04:47:53	Dark	61.500	2	Alp Car	-0.73600	7000.0	123	45149	No
39	GOM_TRA_1PNPDE20101019_045925_000000452094_00005_45149_3038.N1	19-OCT-2010 04:59:25	Straylight	45.000	157	The1Eri	2.9060	9300.0	90	45149	No
40	GOM_TRA_1PNPDE20101019_052026_000000452094_00005_45149_3039.N1	19-OCT-2010 05:20:26	Bright	44.500	105	6Bet Ari	2.6450	8900.0	89	45149	No
41	GOM_TRA_1PNPDE20101019_052400_000000402094_00005_45149_3040.N1	19-OCT-2010 05:24:00	Bright	40.000	53	43Bet And	2.0480	3300.0	80	45149	No
42	GOM_TRA_1PNPDE20101019_052521_000000452094_00005_45149_3041.N1	19-OCT-2010 05:25:21	Bright	45.000	173	4Bet Tri	3.0040	8900.0	90	45149	No
43	GOM_TRA_1PNPDE20101019_052716_000000452094_00005_45149_3042.N1	19-OCT-2010 05:27:16	Bright	45.000	73	57Gam1And	2.2600	13100.	90	45149	No
44	GOM_TRA_1PNPDE20101019_053113_000000392094_00005_45149_3043.N1	19-OCT-2010 05:31:13	Bright	39.000	110	37Del Cas	2.6780	8900.0	78	45149	No
45	GOM_TRA_1PNPDE20101019_053244_000000522094_00005_45149_3044.N1	19-OCT-2010 05:32:44	Bright	52.000	35	33Alp Per	1.7950	6250.0	104	45149	No
46	GOM_TRA_1PNPDE20101019_055904_000000422094_00005_45149_3081.N1	19-OCT-2010 05:59:04	Bright	42.000	166	17Eps Leo	2.9800	6000.0	84	45149	No
47	GOM_TRA_1PNPDE20101019_060225_000000412094_00005_45149_3082.N1	19-OCT-2010 06:02:25	Bright	41.000	22	32Alp Leo	1.3600	15200.	82	45149	No
48	GOM_TRA_1PNPDE20101019_061006_000000562094_00005_45149_3083.N1	19-OCT-2010 06:10:06	Dark	56.000	48	30Alp Hya	1.9770	4100.0	112	45149	No
49	GOM_TRA_1PNPDE20101019_061929_000000562094_00005_45149_3084.N1	19-OCT-2010 06:19:29	Dark	56.000	132	15Rho Pup	2.8030	6900.0	112	45149	No
50	GOM_TRA_1PNPDE20101019_062250_000000442094_00006_45150_3085.N1	19-OCT-2010 06:22:50	Dark	44.000	34	Gam2Vel	1.7930	23000.	88	45150	No
51	GOM_TRA_1PNPDE20101019_062829_000000532094_00006_45150_3086.N1	19-OCT-2010 06:28:29	Dark	53.000	2	Alp Car	-0.73600	7000.0	106	45150	No
52	GOM_TRA_1PNPDE20101019_064001_000000442094_00006_45150_3087.N1	19-OCT-2010 06:40:01	Straylight	44.000	157	The1Eri	2.9060	9300.0	88	45150	No
53	GOM_TRA_1PNPDE20101019_070102_000000452094_00006_45150_3088.N1	19-OCT-2010 07:01:02	Bright	45.000	105	6Bet Ari	2.6450	8900.0	90	45150	No
54	GOM_TRA_1PNPDE20101019_070435_000000402094_00006_45150_3089.N1	19-OCT-2010 07:04:35	Bright	39.500	53	43Bet And	2.0480	3300.0	79	45150	No
55	GOM_TRA_1PNPDE20101019_070556_000000442094_00006_45150_3090.N1	19-OCT-2010 07:05:56	Bright	43.500	173	4Bet Tri	3.0040	8900.0	87	45150	No
56	GOM_TRA_1PNPDE20101019_070751_000000422094_00006_45150_3091.N1	19-OCT-2010 07:07:51	Bright	42.000	73	57Gam1And	2.2600	13100.	84	45150	No
57	GOM_TRA_1PNPDE20101019_071031_000000272094_00006_45150_3092.N1	19-OCT-2010 07:10:31	Twl_and_stray	27.000	79	26Bet Per	2.3100	13100.	54	45150	No
58	GOM_TRA_1PNPDE20101019_071148_000000392094_00006_45150_3093.N1	19-OCT-2010 07:11:48	Bright	39.000	110	37Del Cas	2.6780	8900.0	78	45150	No
59	GOM_TRA_1PNPDE20101019_071319_000000532094_00006_45150_3094.N1	19-OCT-2010 07:13:19	Bright	53.000	35	33Alp Per	1.7950	6250.0	106	45150	No
60	GOM_TRA_1PNPDE20101019_200452_000000432094_00014_45158_3308.N1	19-OCT-2010 20:04:52	Straylight	43.000	157	The1Eri	2.9060	9300.0	86	45158	No
61	GOM_TRA_1PNPDE20101019_202546_000000452094_00014_45158_3309.N1	19-OCT-2010 20:25:46	Bright	44.500	105	6Bet Ari	2.6450	8900.0	89	45158	No
62	GOM_TRA_1PNPDE20101019_202921_000000402094_00014_45158_3310.N1	19-OCT-2010 20:29:21	Bright	40.000	53	43Bet And	2.0480	3300.0	80	45158	No
63	GOM_TRA_1PNPDE20101019_203234_000000462094_00014_45158_3311.N1	19-OCT-2010 20:32:34	Bright	46.000	73	57Gam1And	2.2600	13100.	92	45158	No
64	GOM_TRA_1PNPDE20101019_203510_000000472094_00014_45158_3312.N1	19-OCT-2010 20:35:10	Bright	47.000	79	26Bet Per	2.3100	13100.	94	45158	No
65	GOM_TRA_1PNPDE20101019_203633_000000392094_00014_45158_3313.N1	19-OCT-2010 20:36:33	Bright	39.000	110	37Del Cas	2.6780	8900.0	78	45158	No
66	GOM_TRA_1PNPDE20101019_203759_000000552094_00014_45158_3314.N1	19-OCT-2010 20:37:59	Bright	54.500	35	33Alp Per	1.7950	6250.0	109	45158	No
67	GOM_TRA_1PNPDE20101019_210430_000000432094_00014_45158_3315.N1	19-OCT-2010 21:04:30	Bright	43.000	166	17Eps Leo	2.9800	6000.0	86	45158	No
68	GOM_TRA_1PNPDE20101019_210752_000000602094_00014_45158_3316.N1	19-OCT-2010 21:07:52	Bright	59.500	22	32Alp Leo	1.3600	15200.	119	45158	No
69	GOM_TRA_1PNPDE20101019_211536_000000542094_00014_45158_3344.N1	19-OCT-2010 21:15:36	Dark	54.000	48	30Alp Hya	1.9770	4100.0	108	45158	No
70	GOM_TRA_1PNPDE20101019_212505_000000572094_00014_45158_3345.N1	19-OCT-2010 21:25:05	Dark	56.500	132	15Rho Pup	2.8030	6900.0	113	45158	No
71	GOM_TRA_1PNPDE20101019_212821_000000502094_00015_45159_3346.N1	19-OCT-2010 21:28:21	Dark	50.000	34	Gam2Vel	1.7930	23000.	100	45159	No

72	GOM_TRA_1PNPDE20101019_213400_000000462094_00015_45159_3347.N1	19-OCT-2010 21:34:00	Dark	45.500	2	Alp Car	-0.73600	7000.0	91	45159	No
73	GOM_TRA_1PNPDE20101019_214529_000000462094_00015_45159_3348.N1	19-OCT-2010 21:45:29	Straylight	45.500	157	The1Eri	2.9060	9300.0	91	45159	No
74	GOM_TRA_1PNPDE20101019_220621_000000432094_00015_45159_3349.N1	19-OCT-2010 22:06:21	Bright	43.000	105	6Bet Ari	2.6450	8900.0	86	45159	No
75	GOM_TRA_1PNPDE20101019_220956_000000402094_00015_45159_3350.N1	19-OCT-2010 22:09:56	Bright	39.500	53	43Bet And	2.0480	3300.0	79	45159	No
76	GOM_TRA_1PNPDE20101019_221310_000000412094_00015_45159_3351.N1	19-OCT-2010 22:13:10	Bright	40.500	73	57Gam1And	2.2600	13100.	81	45159	No
77	GOM_TRA_1PNPDE20101019_221545_000000472094_00015_45159_3352.N1	19-OCT-2010 22:15:45	Bright	47.000	79	26Bet Per	2.3100	13100.	94	45159	No
78	GOM_TRA_1PNPDE20101019_221709_000000402094_00015_45159_3353.N1	19-OCT-2010 22:17:09	Bright	39.500	110	37Del Cas	2.6780	8900.0	79	45159	No
79	GOM_TRA_1PNPDE20101019_221833_000000522094_00015_45159_3354.N1	19-OCT-2010 22:18:33	Bright	52.000	35	33Alp Per	1.7950	6250.0	104	45159	No
80	GOM_TRA_1PNPDE20101019_224506_000000472094_00015_45159_3355.N1	19-OCT-2010 22:45:06	Bright	46.500	166	17Eps Leo	2.9800	6000.0	93	45159	No
81	GOM_TRA_1PNPDE20101019_224828_000000432094_00015_45159_3356.N1	19-OCT-2010 22:48:28	Bright	42.500	22	32Alp Leo	1.3600	15200.	85	45159	No
82	GOM_TRA_1PNPDE20101019_225613_000000542094_00015_45159_3364.N1	19-OCT-2010 22:56:13	Dark	53.500	48	30Alp Hya	1.9770	4100.0	107	45159	No
83	GOM_TRA_1PNPDE20101019_230542_000000562094_00015_45159_3365.N1	19-OCT-2010 23:05:42	Dark	56.000	132	15Rho Pup	2.8030	6900.0	112	45159	No
84	GOM_TRA_1PNPDE20101019_230857_000000422094_00016_45160_3366.N1	19-OCT-2010 23:08:57	Dark	42.000	34	Gam2Vel	1.7930	23000.	84	45160	No
85	GOM_TRA_1PNPDE20101019_231437_000000472094_00016_45160_3367.N1	19-OCT-2010 23:14:37	Dark	46.500	2	Alp Car	-0.73600	7000.0	93	45160	No
86	GOM_TRA_1PNPDE20101019_232605_000000452094_00016_45160_3368.N1	19-OCT-2010 23:26:05	Straylight	45.000	157	The1Eri	2.9060	9300.0	90	45160	No
87	GOM_TRA_1PNPDE20101019_234656_000000452094_00016_45160_3369.N1	19-OCT-2010 23:46:56	Bright	44.500	105	6Bet Ari	2.6450	8900.0	89	45160	No
88	GOM_TRA_1PNPDE20101019_235032_000000392094_00016_45160_3370.N1	19-OCT-2010 23:50:32	Bright	39.000	53	43Bet And	2.0480	3300.0	78	45160	No
89	GOM_TRA_1PNPDE20101019_235345_000000412094_00016_45160_3371.N1	19-OCT-2010 23:53:45	Bright	41.000	73	57Gam1And	2.2600	13100.	82	45160	No
90	GOM_TRA_1PNPDE20101019_235620_000000522094_00016_45160_3372.N1	19-OCT-2010 23:56:20	Bright	52.000	79	26Bet Per	2.3100	13100.	104	45160	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

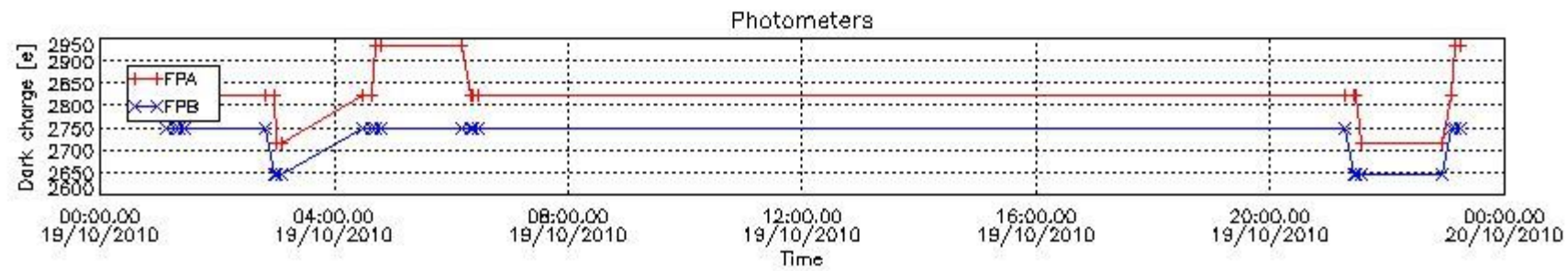
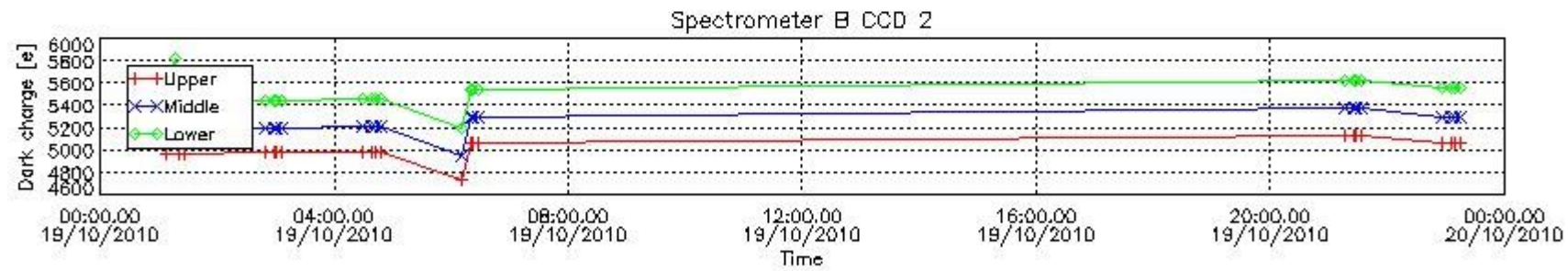
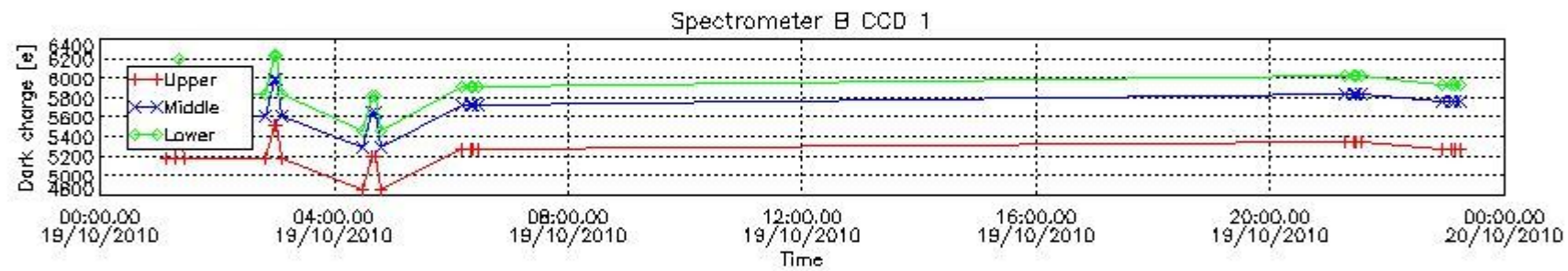
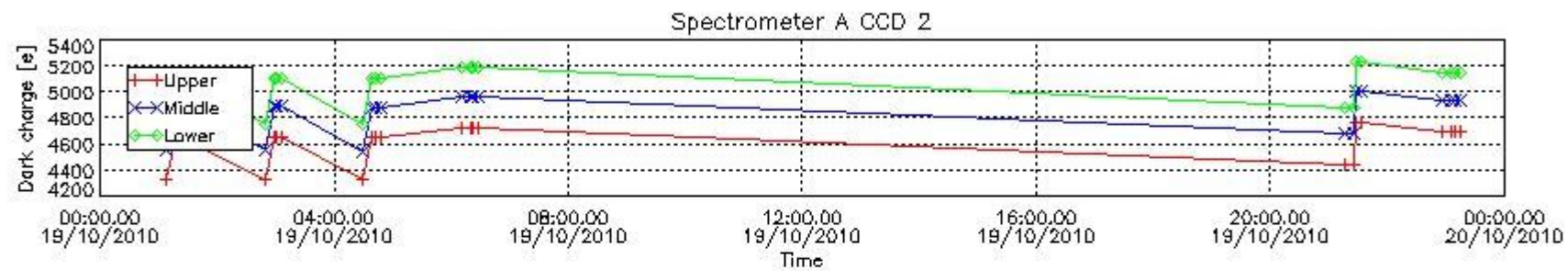
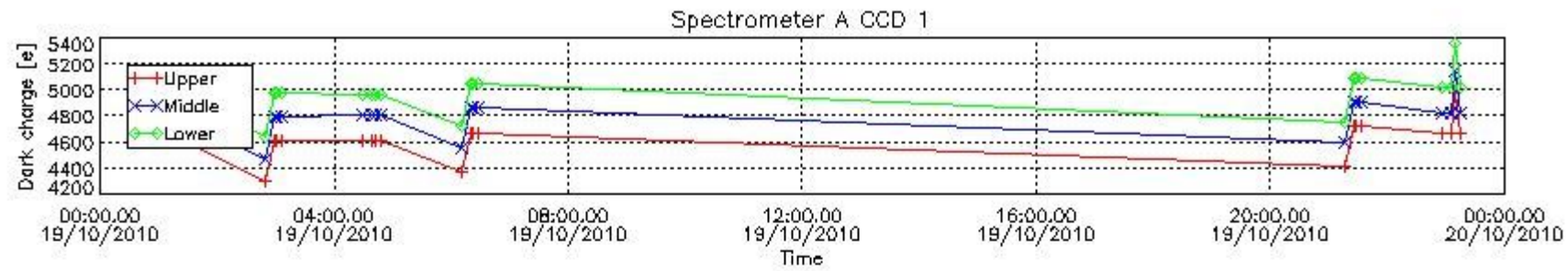
from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative 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_1PNPDE20101019_200452_000000432094_00014_45158_3308.N1	DC map used
GOM_TRA_1PNPDE20101019_202546_000000452094_00014_45158_3309.N1	DC map used
GOM_TRA_1PNPDE20101019_202921_000000402094_00014_45158_3310.N1	DC map used
GOM_TRA_1PNPDE20101019_203234_000000462094_00014_45158_3311.N1	DC map used
GOM_TRA_1PNPDE20101019_203510_000000472094_00014_45158_3312.N1	DC map used
GOM_TRA_1PNPDE20101019_203633_000000392094_00014_45158_3313.N1	DC map used
GOM_TRA_1PNPDE20101019_203759_000000552094_00014_45158_3314.N1	DC map used
GOM_TRA_1PNPDE20101019_210430_000000432094_00014_45158_3315.N1	DC map used
GOM_TRA_1PNPDE20101019_210752_000000602094_00014_45158_3316.N1	DC map used

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



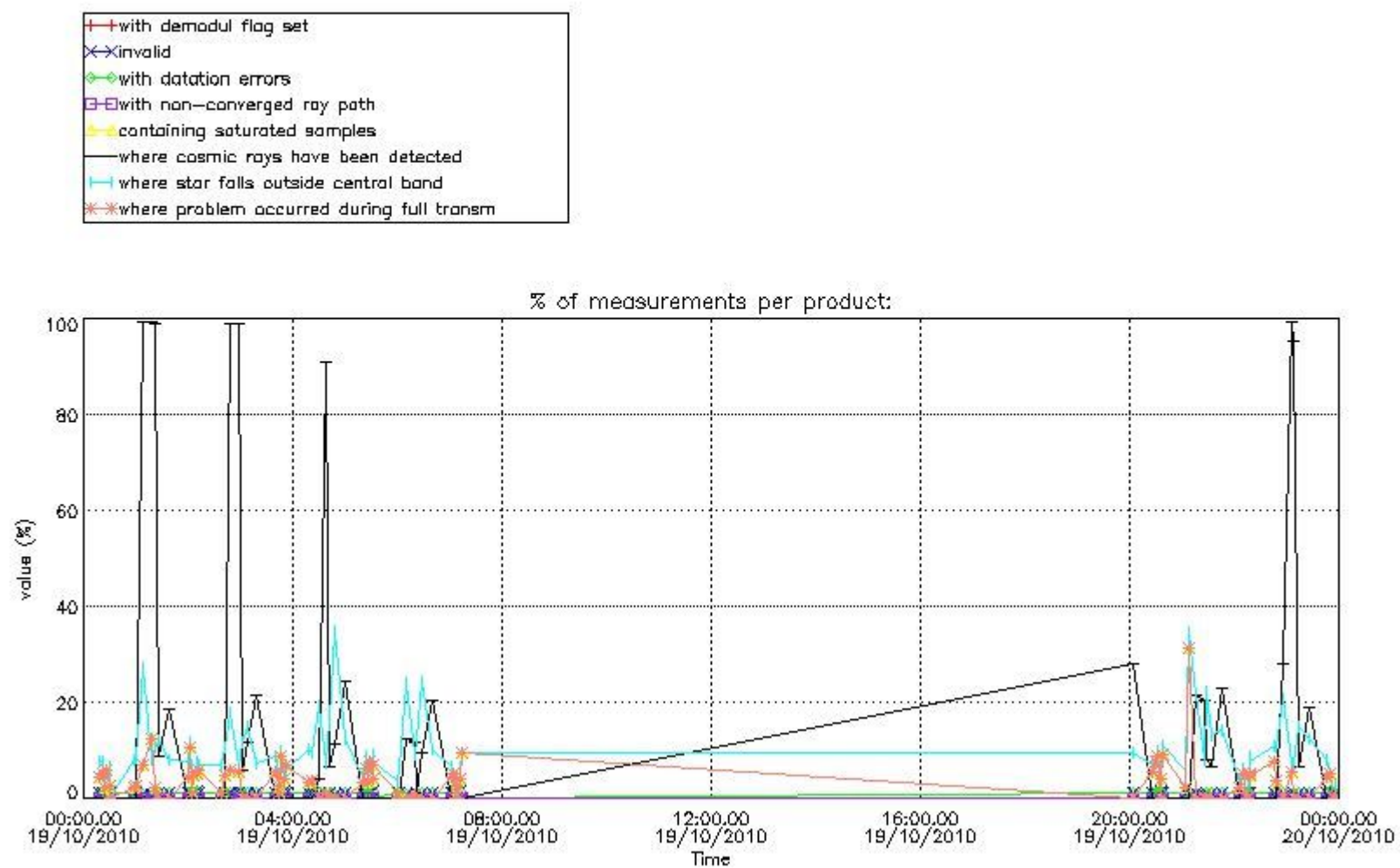
5. Demodulation flag and quality information monitoring

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.

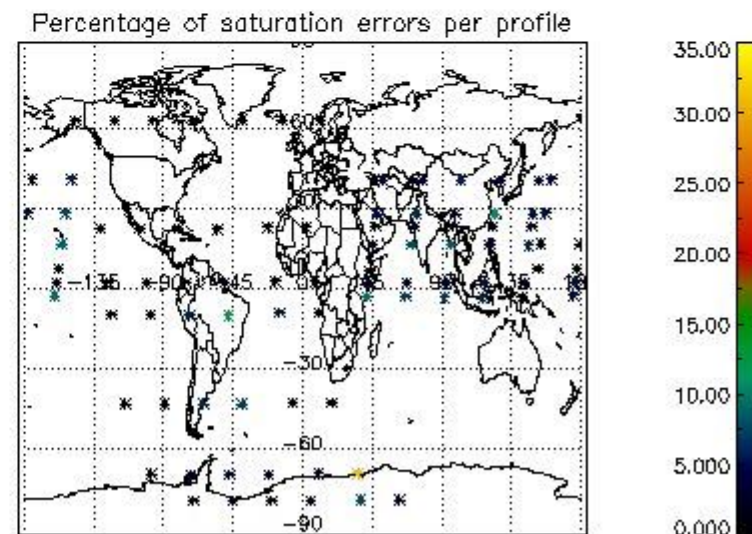
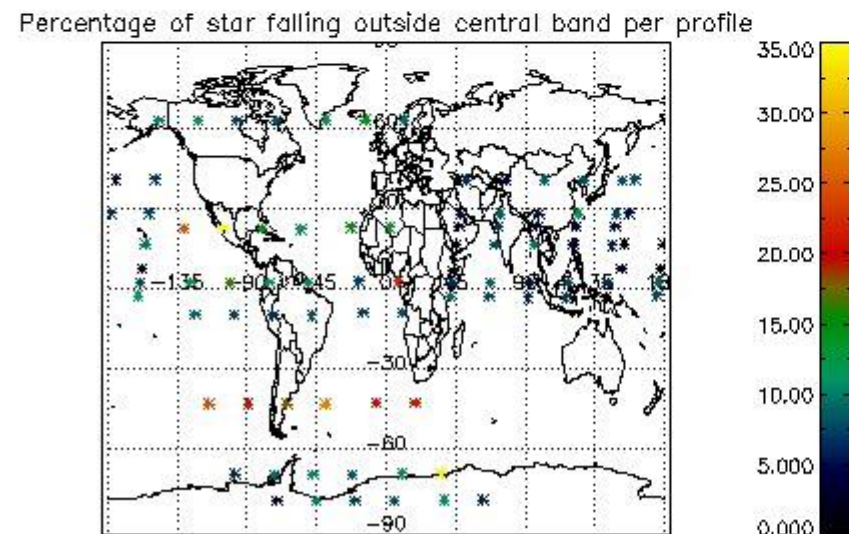
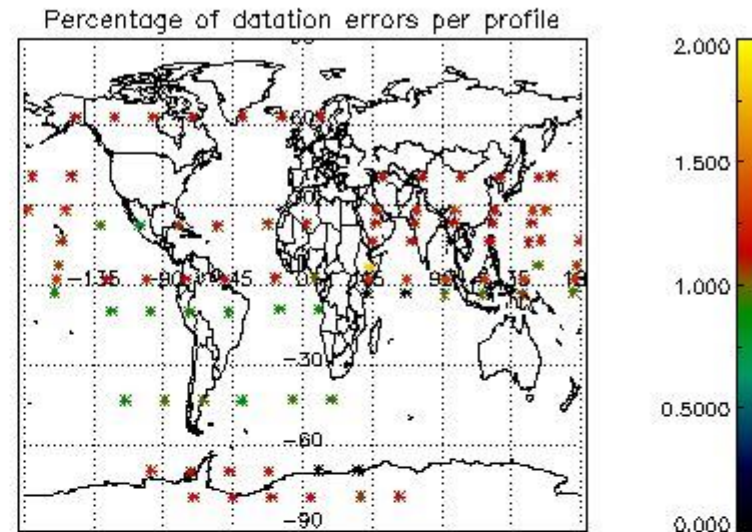
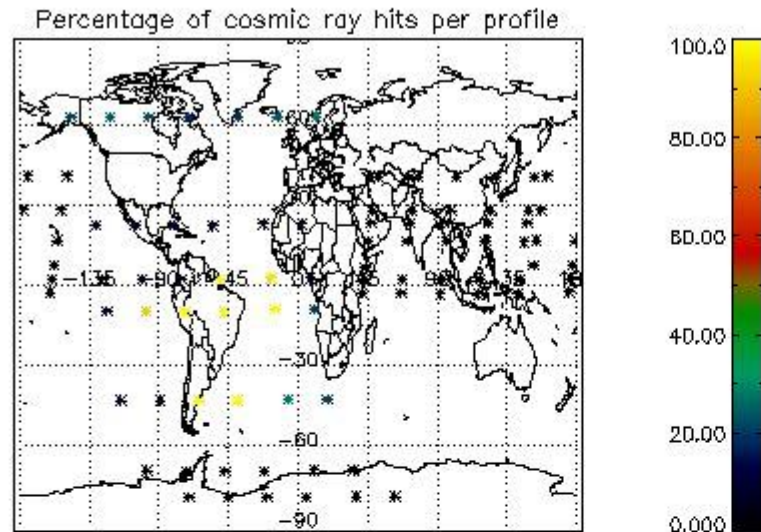
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	32.2222 %
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)



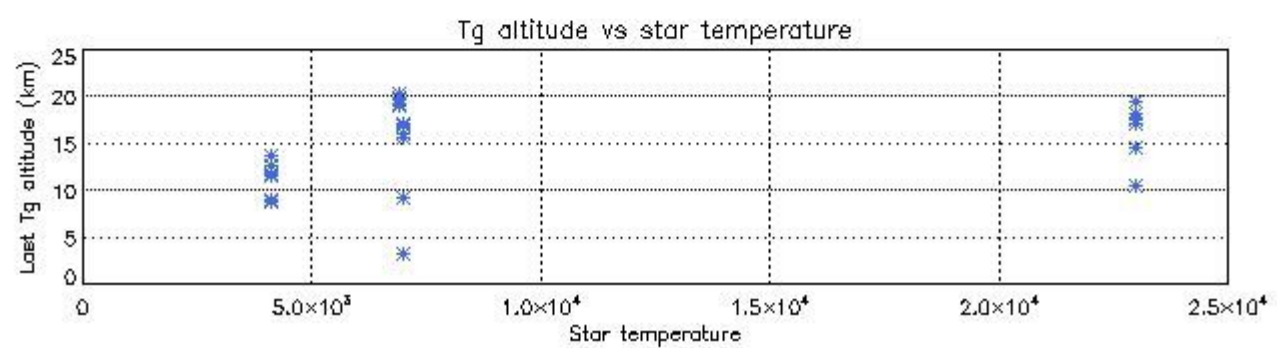
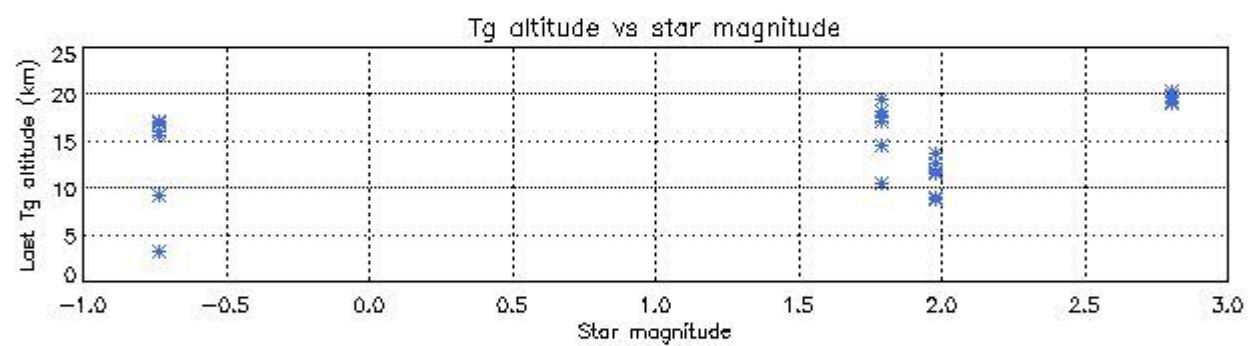
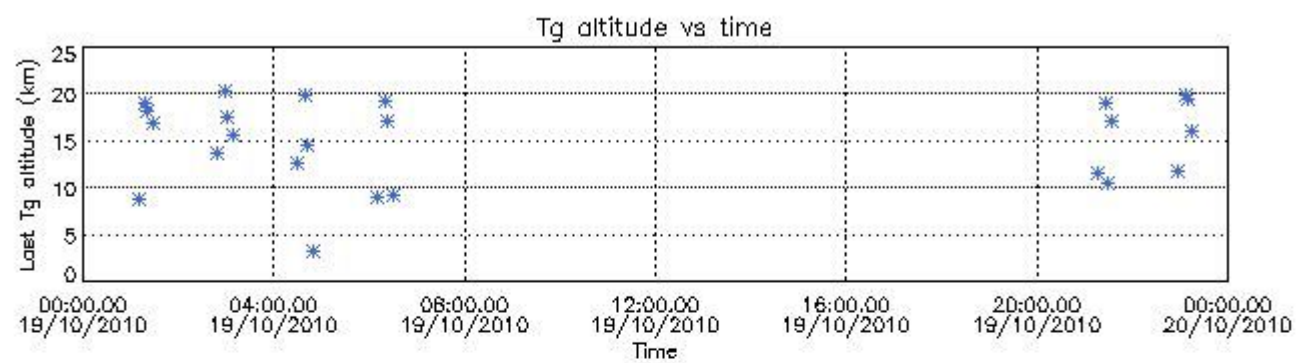
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.004	20.804	NaN
St. deviation:	4.5461	3.9757	NaN
Maximum:	20.353	33.252	NaN
Minimum:	3.2354	4.4254	NaN
Number of data:	24.000	58.000	NaN

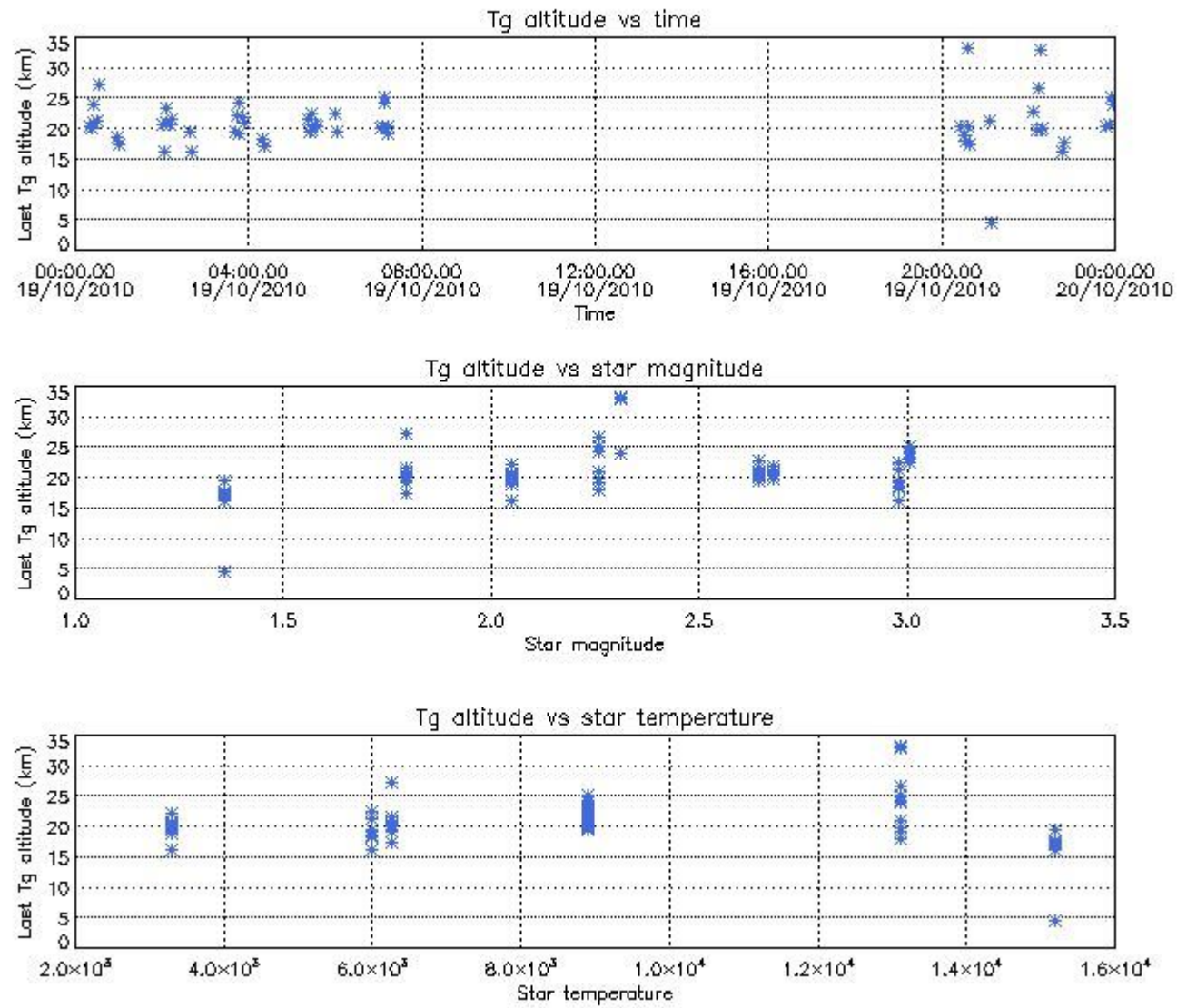
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

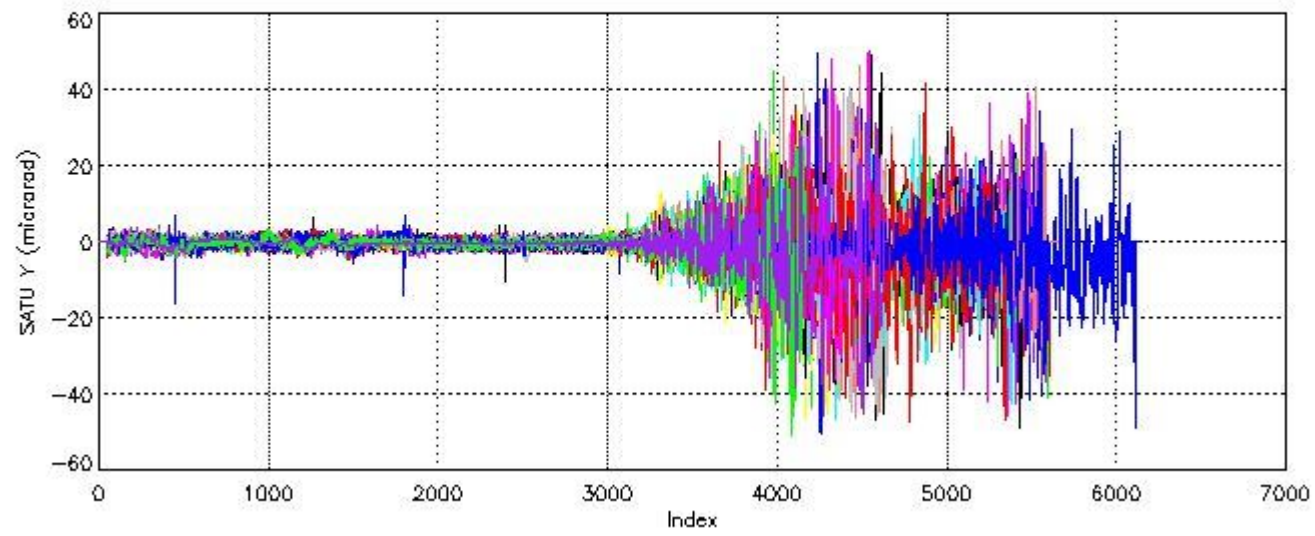
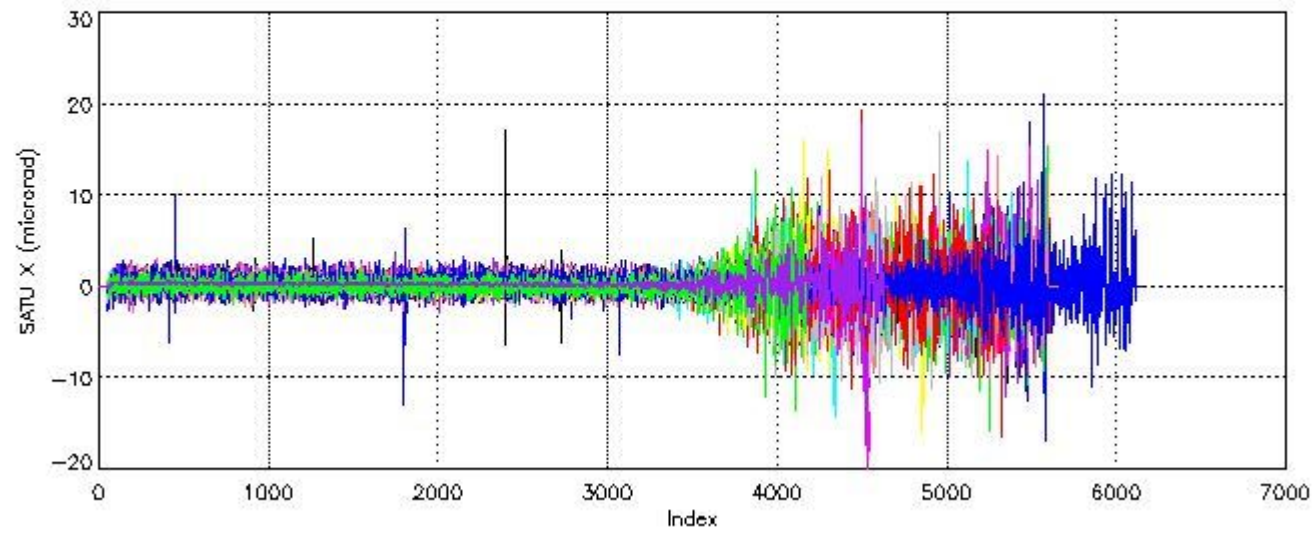


7. Star Acquisition and Tracking Unit (SATU)

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:	0.21792	-0.38597	0.22539	-0.34907
St. deviation:	0.42910	0.98594	0.74377	1.2067
Maximum:	10.000	6.8000	5.8000	7.0000
Minimum:	-6.2000	-16.500	-5.1000	-7.4000

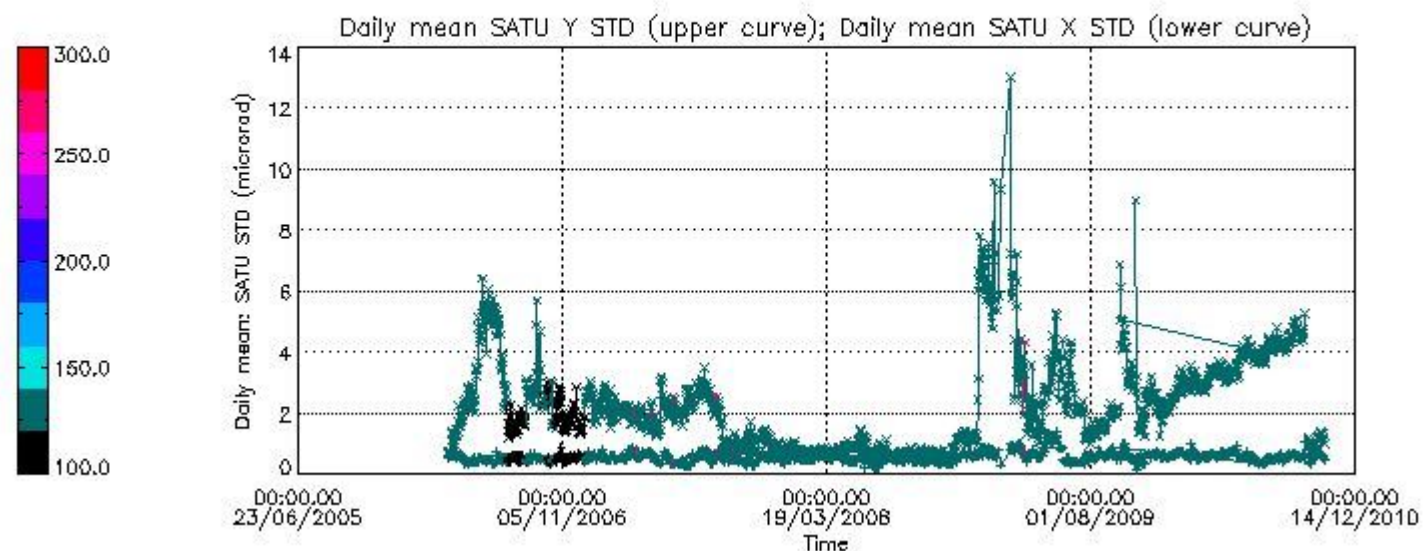
Number of data:	25300.	25300.	62450.	62450.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

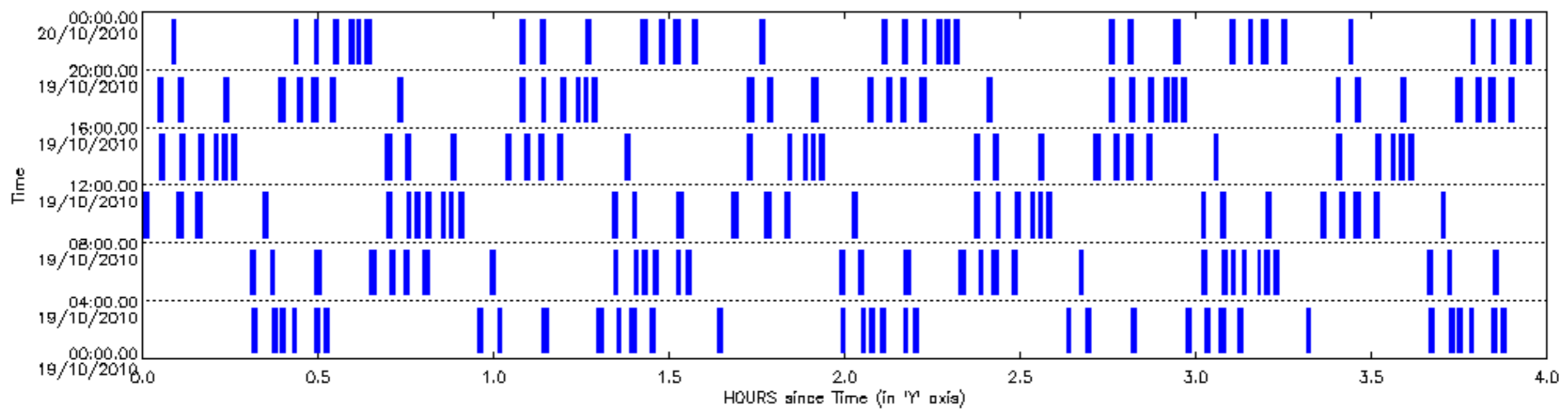
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

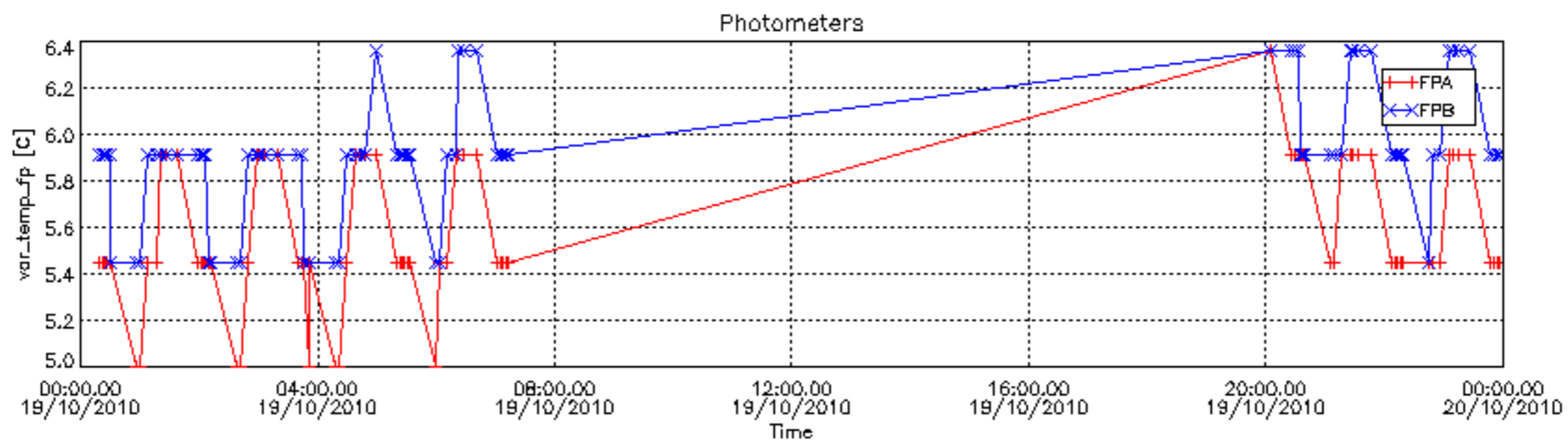
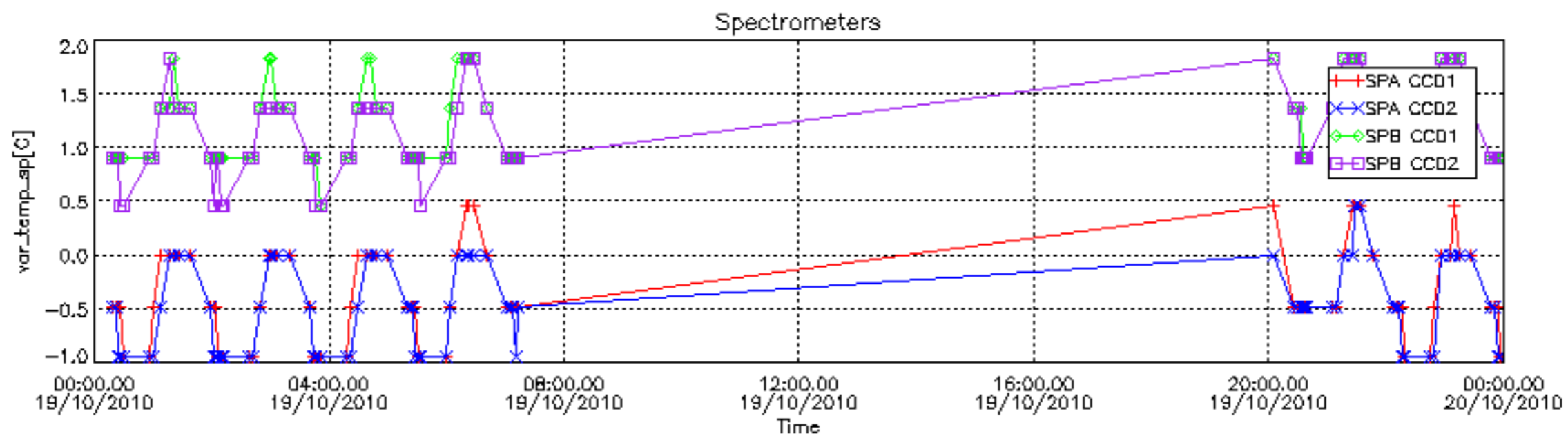


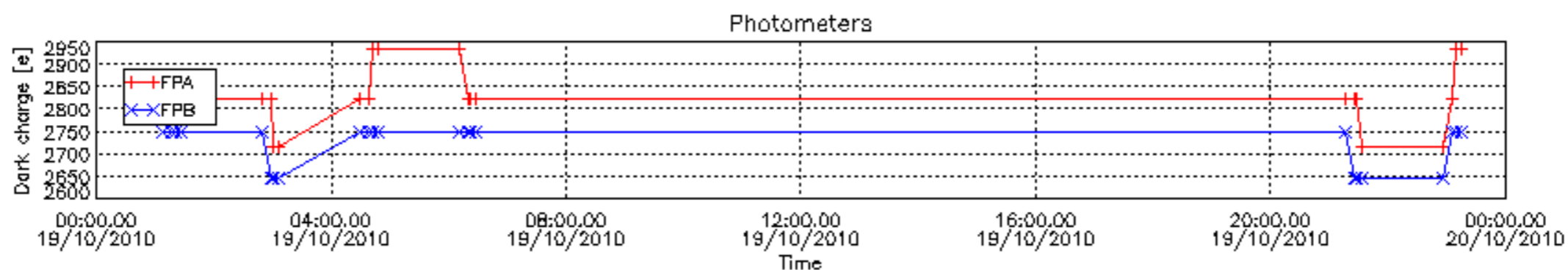
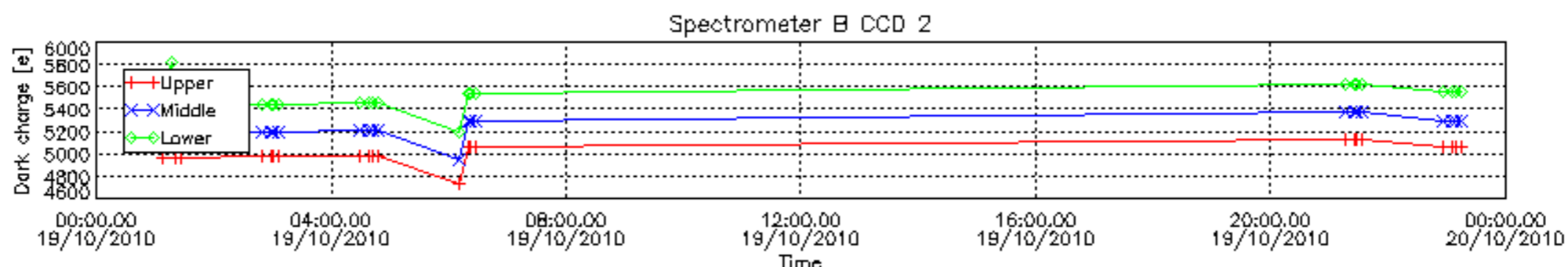
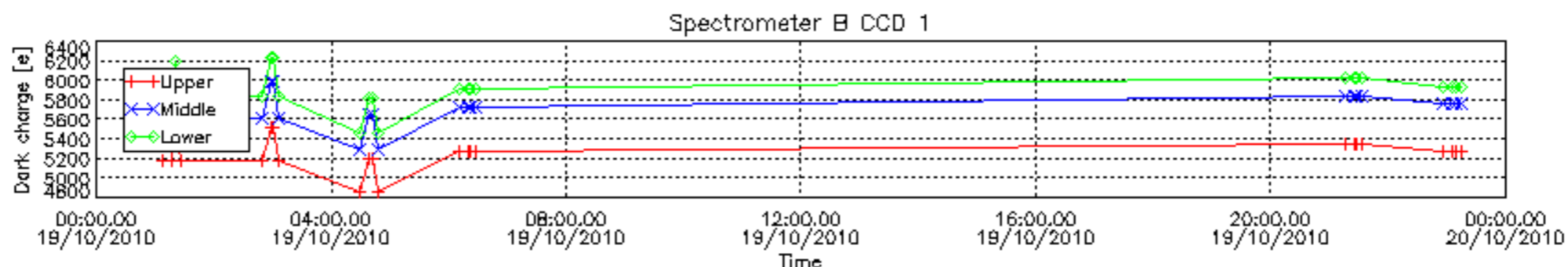
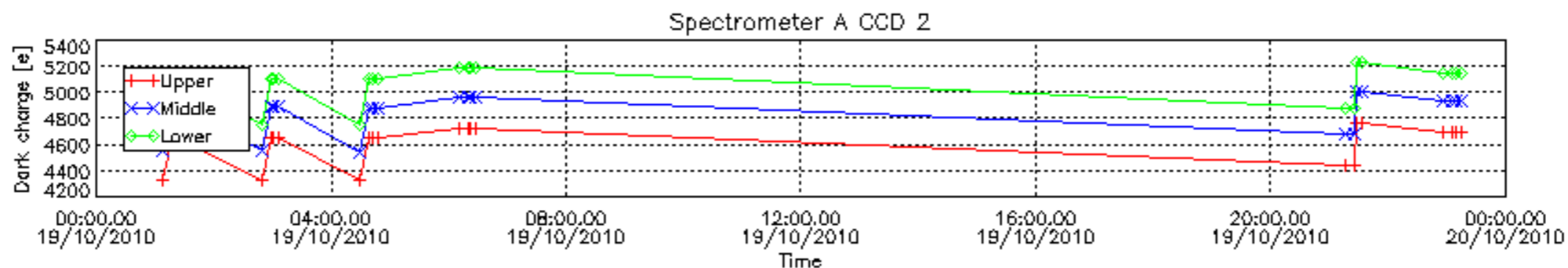
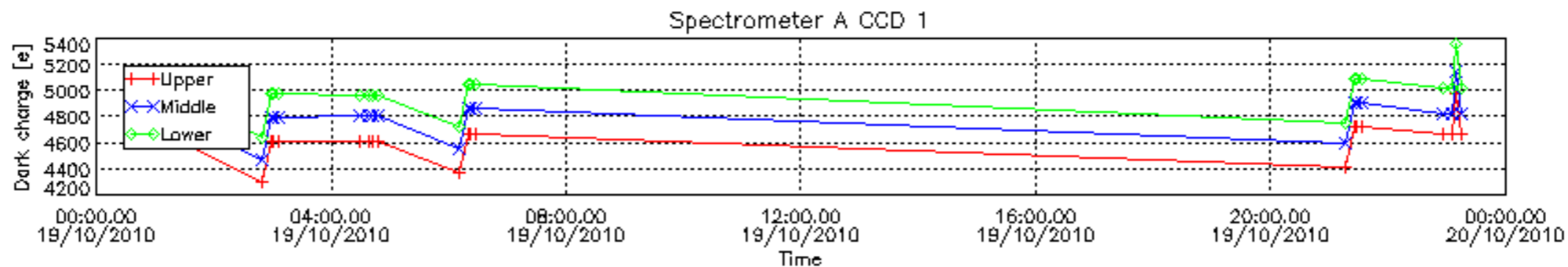
8. Auxiliary Data Files used for the production reported in section 2.4

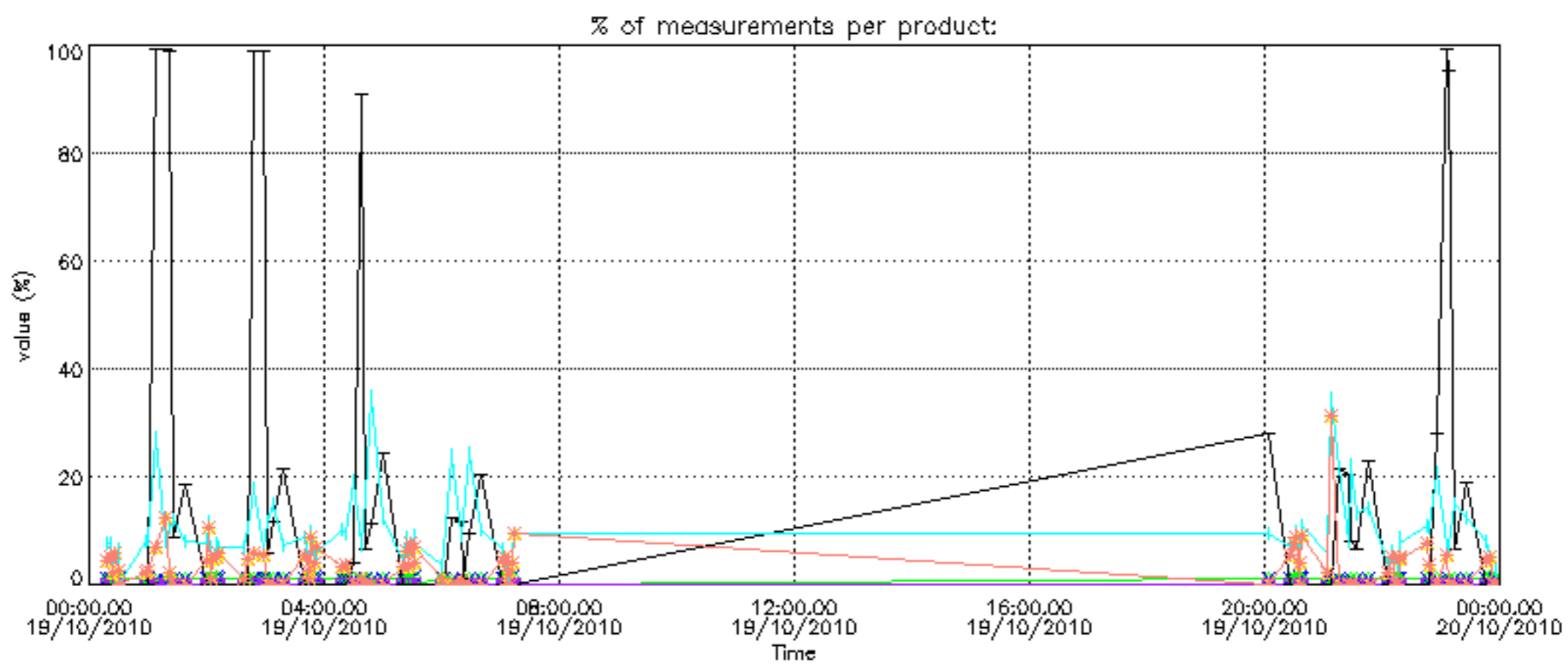
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	19-OCT-2010 00:18:40
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20101011_092457_20101009_000000_20500101_000000	1	19-OCT-2010 00:18:40
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	19-OCT-2010 00:18:40
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	19-OCT-2010 00:18:40
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	19-OCT-2010 00:18:40
ECMWF_FILE	AUX_ECF_AXNECM20101018_054115_20101018_210000_20101019_090000	1	19-OCT-2010 00:18:40
ECMWF_FILE	AUX_ECF_AXNECM20101018_170129_20101019_030000_20101019_150000	31	19-OCT-2010 03:50:37
ECMWF_FILE	AUX_ECA_AXNECM20101019_052116_20101018_210000_20101019_090000	46	19-OCT-2010 05:59:04
ECMWF_FILE	AUX_ECF_AXNECM20101019_054116_20101019_150000_20101020_030000	60	19-OCT-2010 20:04:52
ECMWF_FILE	AUX_ECF_AXNECM20101019_054116_20101019_210000_20101020_090000	69	19-OCT-2010 21:15:36
OPTIONAL_ECMWF_FILE	MISSING	1	19-OCT-2010 00:18:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101018_232235_000057382094_00001_45145_1775.N1	1	19-OCT-2010 00:18:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101019_010332_000092452094_00002_45146_1776.N1	9	19-OCT-2010 01:08:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101019_034256_000066952094_00004_45148_1777.N1	31	19-OCT-2010 03:50:37
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101019_053949_000057382094_00005_45149_1778.N1	46	19-OCT-2010 05:59:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101019_200033_000038252094_00014_45158_1781.N1	60	19-OCT-2010 20:04:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101019_210937_000057382094_00014_45158_1782.N1	69	19-OCT-2010 21:15:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101019_225034_000057382094_00015_45159_1783.N1	82	19-OCT-2010 22:56:13

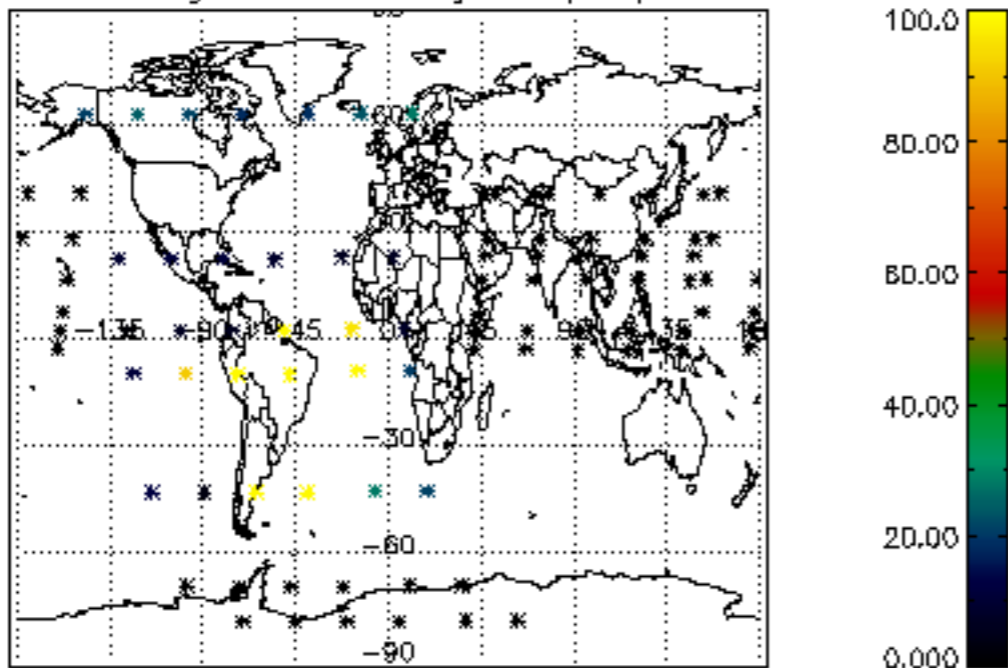




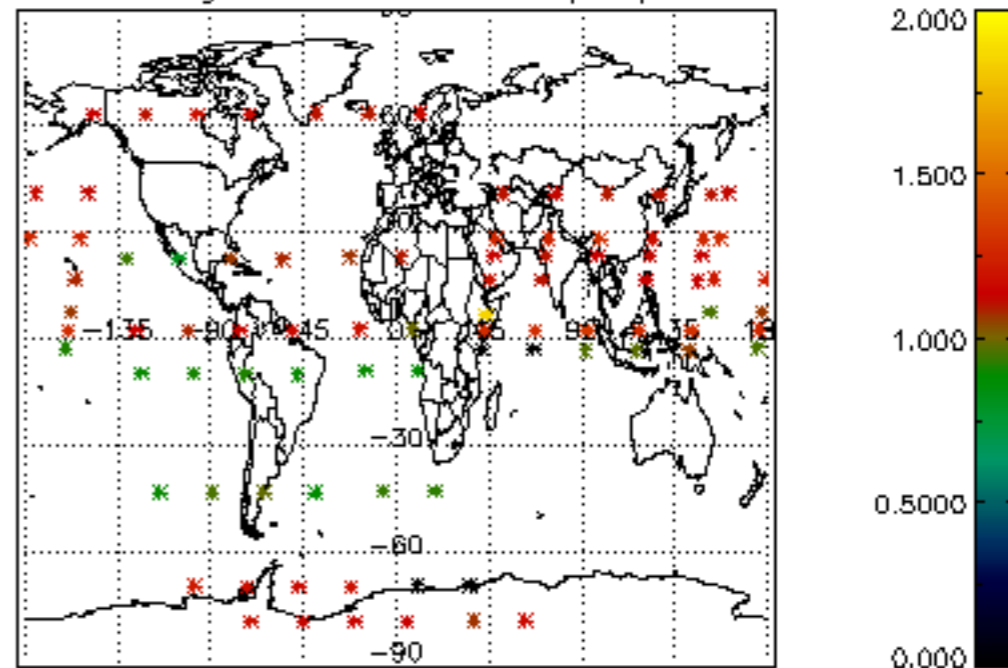




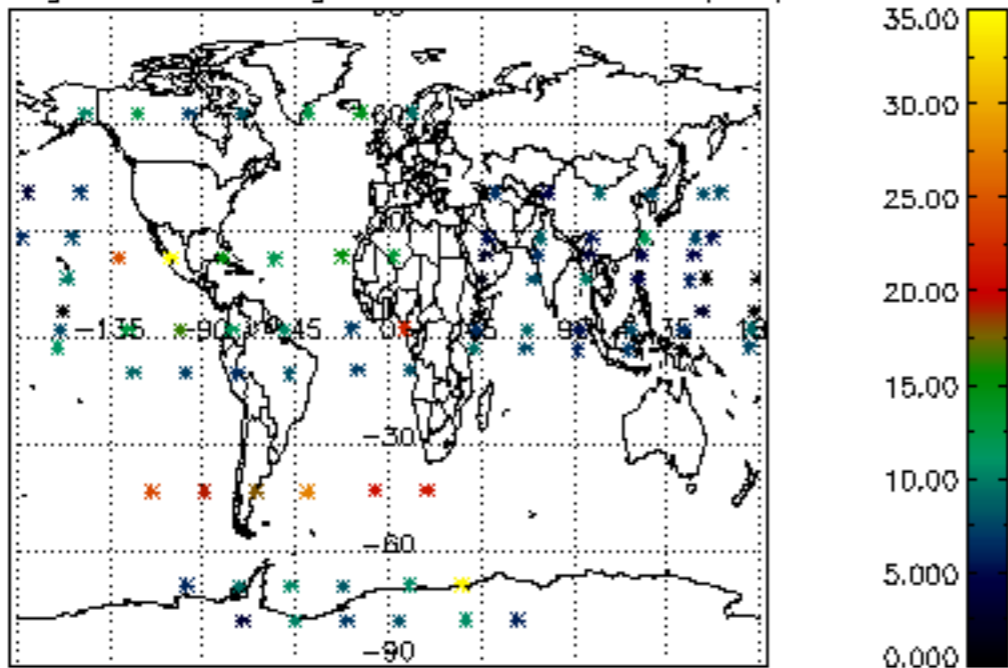
Percentage of cosmic ray hits per profile



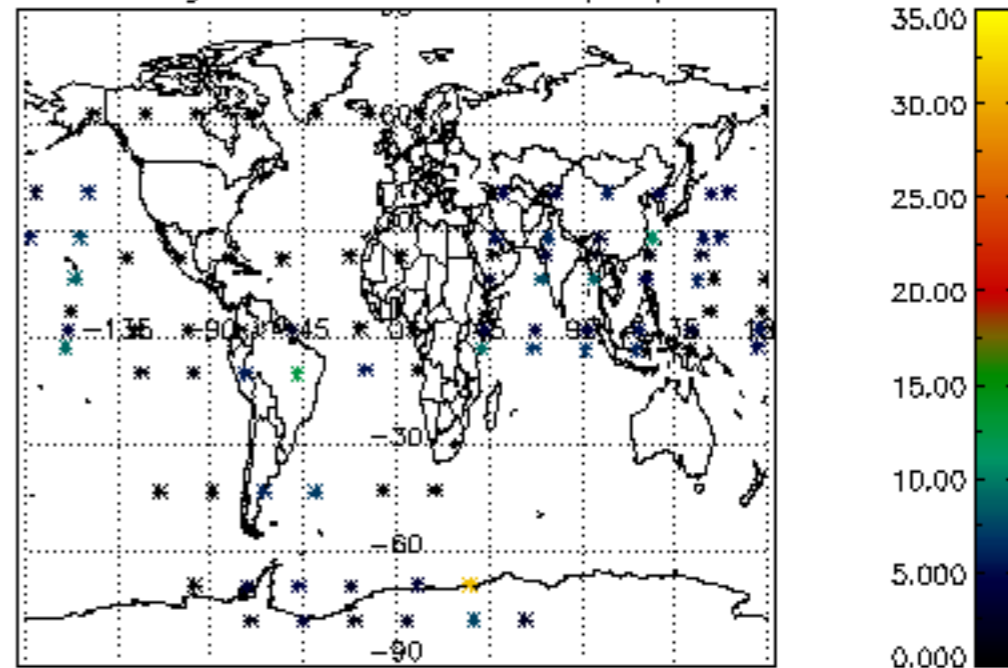
Percentage of datation errors per profile



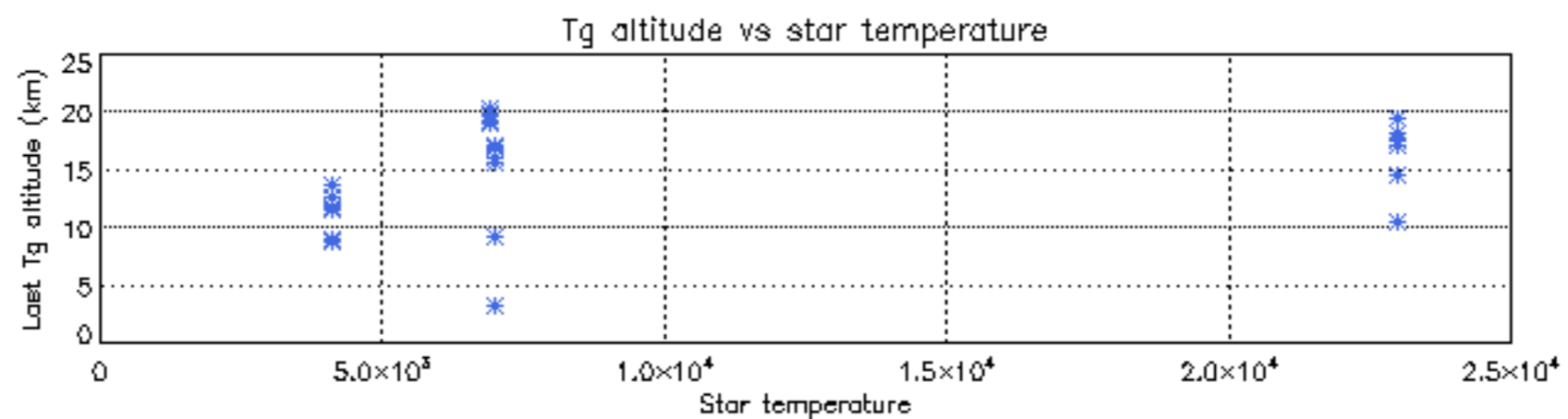
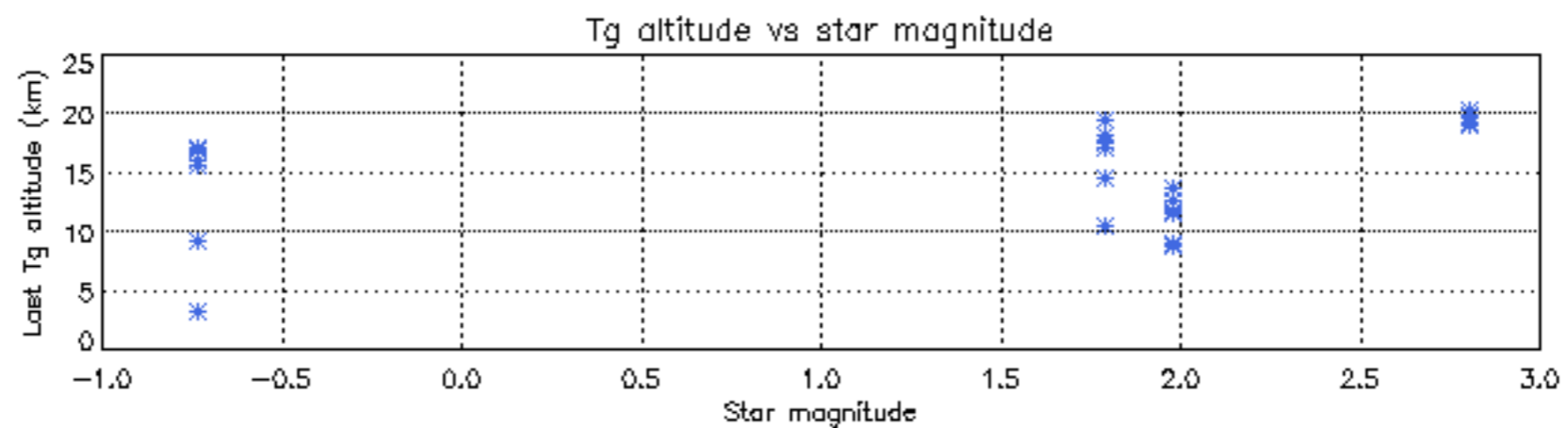
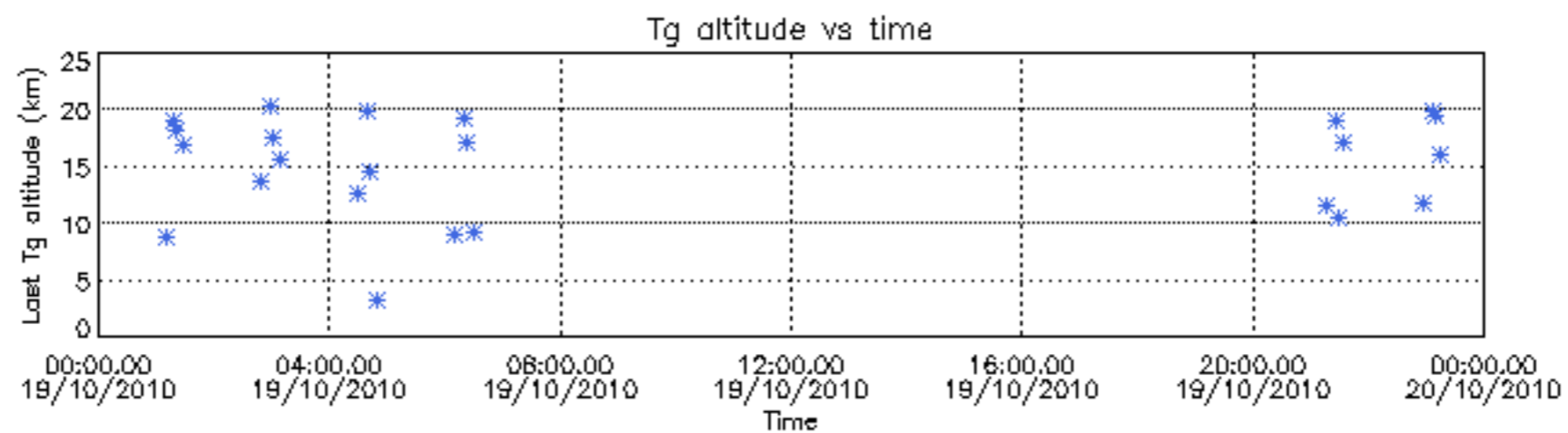
Percentage of star falling outside central band per profile



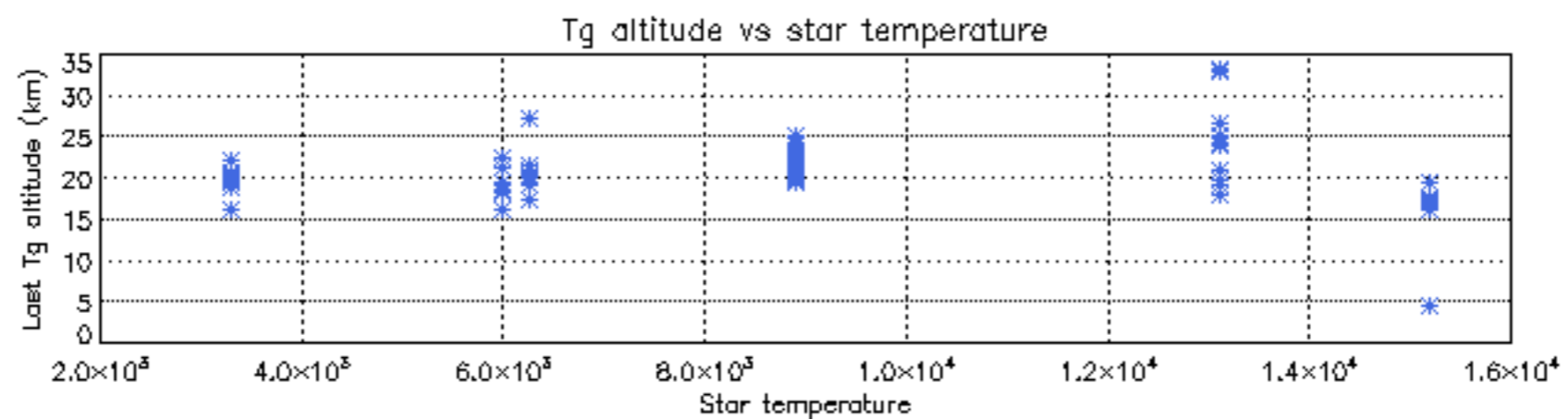
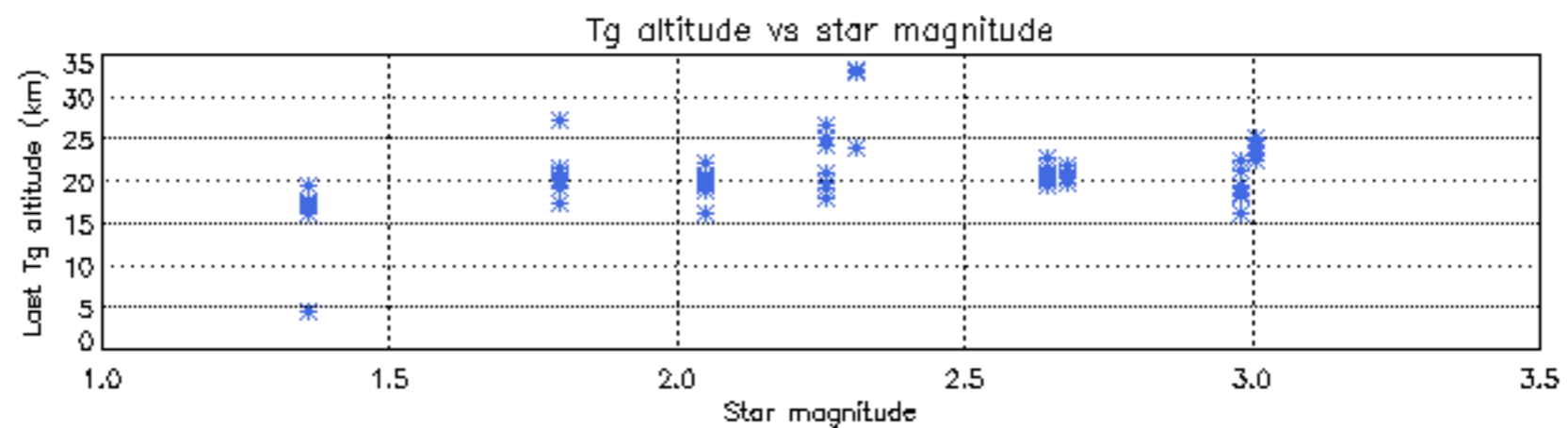
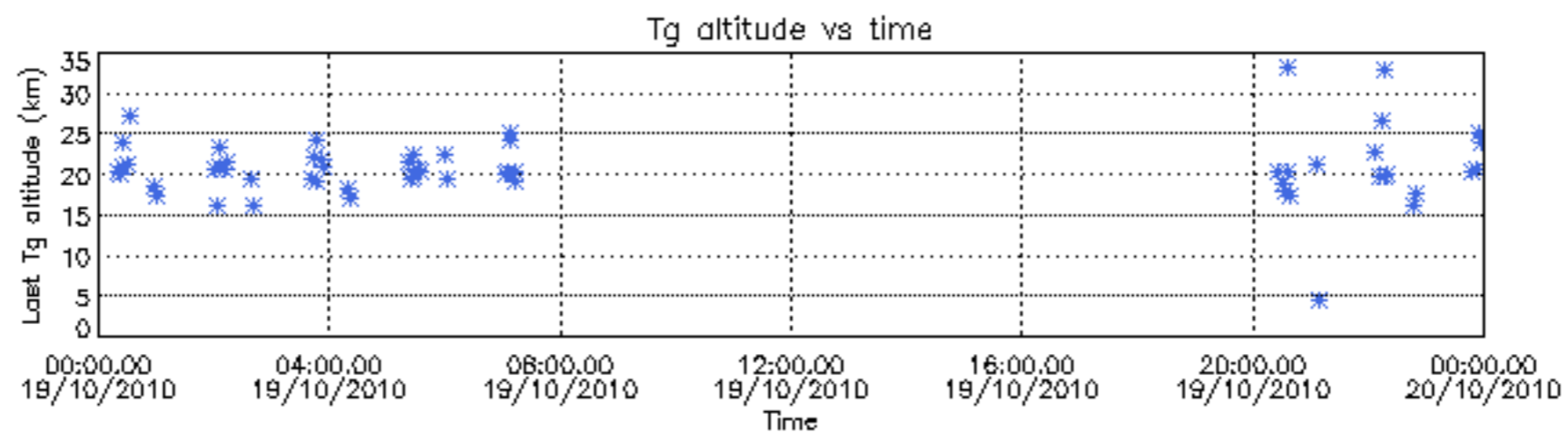
Percentage of saturation errors per profile

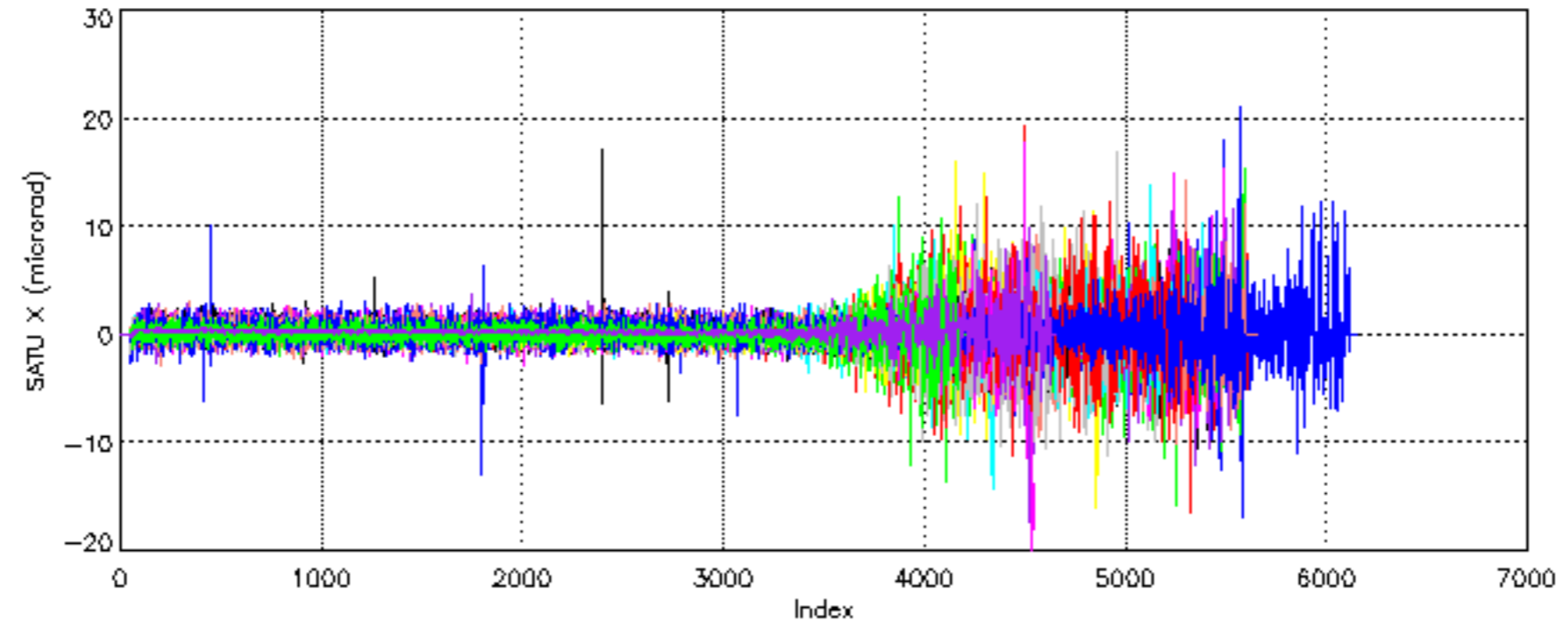


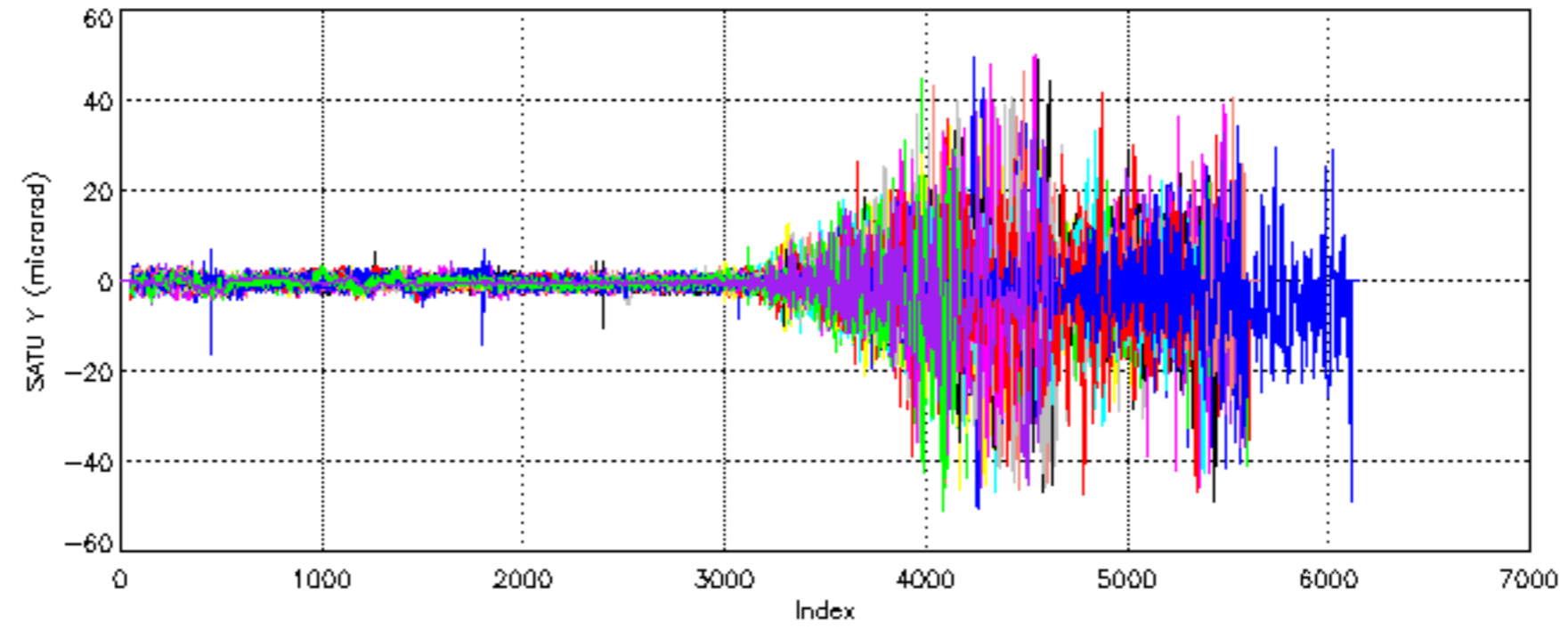
Tangent altitude at which the star is lost

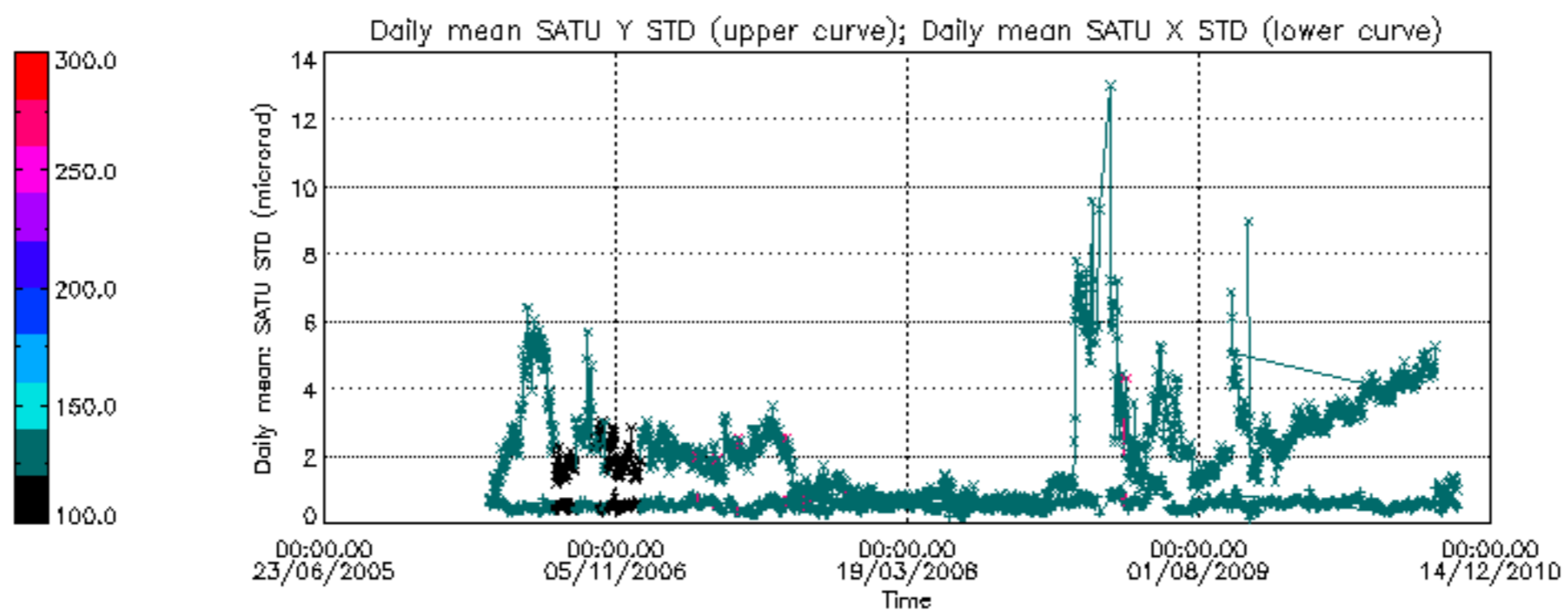


Tangent altitude at which the star is lost









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

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

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

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

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

1; -1523.7; 01-OCT-2010 03:41:49; Bright; 31.0; 24; 66Alp Gem ; 1.58; 10200;occ; 62; 0;44890
 2; -1435.2; 01-OCT-2010 03:43:18; Bright; 73.0; 17; 78Bet Gem ; 1.16; 4500;occ; 146; 0;44890
 3; -874.0; 01-OCT-2010 03:52:39; Dark ; 30.0; 8; 10Alp CMi ; 0.40; 6500;occ; 60; 0;44890
 4; -450.8; 01-OCT-2010 03:59:42; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;44890
 5; -202.1; 01-OCT-2010 04:03:51; Dark ; 65.0; 37; 25Del CMA ; 1.83; 5900;occ; 130; 0;44890
 6; -42.6; 01-OCT-2010 04:06:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44890
 7; 169.8; 01-OCT-2010 04:10:03; Dark ; 44.5; 2; Alp Car ;-0.74; 7000;occ; 89; 0;44891
 8; 303.6; 01-OCT-2010 04:12:16; Dark ; 57.5; 108; Alp Col ; 2.65; 15200;occ; 115; 0;44891
 9; 914.5; 01-OCT-2010 04:22:27; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;44891
 10; 1557.3; 01-OCT-2010 04:33:10; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;44891
 11; 2185.6; 01-OCT-2010 04:43:38; Bright; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;44891
 12; 2435.5; 01-OCT-2010 04:47:48; Bright; 39.0; 58; 21Alp And ; 2.07; 11000;occ; 78; 0;44891
 13; 2661.0; 01-OCT-2010 04:51:34; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;44891
 14; 2951.5; 01-OCT-2010 04:56:24; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44891
 15; 3032.0; 01-OCT-2010 04:57:45; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44891

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1; -1523.5; 01-OCT-2010 05:22:25; Bright; 31.0; 24; 66Alp Gem ; 1.58; 10200;occ; 62; 0;44891
 2; -1435.0; 01-OCT-2010 05:23:54; Bright; 61.5; 17; 78Bet Gem ; 1.16; 4500;occ; 123; 0;44891
 3; -872.8; 01-OCT-2010 05:33:16; Dark ; 30.0; 8; 10Alp CMi ; 0.40; 6500;occ; 60; 0;44891
 4; -449.9; 01-OCT-2010 05:40:19; Dark ; 44.5; 132; 15Rho Pup ; 2.80; 6900;occ; 89; 0;44891
 5; -200.8; 01-OCT-2010 05:44:28; Dark ; 64.5; 37; 25Del CMA ; 1.83; 5900;occ; 129; 0;44891
 6; -41.9; 01-OCT-2010 05:47:07; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44891
 7; 170.7; 01-OCT-2010 05:50:39; Dark ; 58.5; 2; Alp Car ;-0.74; 7000;occ; 117; 0;44892
 8; 305.2; 01-OCT-2010 05:52:54; Dark ; 58.0; 108; Alp Col ; 2.65; 15200;occ; 116; 0;44892
 9; 915.1; 01-OCT-2010 06:03:04; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;44892
 10; 1557.4; 01-OCT-2010 06:13:46; Dark ; 49.5; 52; 16Bet Cet ; 2.04; 4500;occ; 99; 0;44892
 11; 2185.4; 01-OCT-2010 06:24:14; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;44892
 12; 2435.1; 01-OCT-2010 06:28:24; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44892
 13; 2660.4; 01-OCT-2010 06:32:09; Bright; 49.0; 53; 43Bet And ; 2.05; 3300;occ; 98; 0;44892
 14; 2951.2; 01-OCT-2010 06:37:00; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44892
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 4; -41.2; 01-OCT-2010 07:27:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44892
 5; 171.4; 01-OCT-2010 07:31:16; Dark ; 60.0; 2; Alp Car ;-0.74; 7000;occ; 120; 0;44893
 6; 306.8; 01-OCT-2010 07:33:31; Dark ; 59.0; 108; Alp Col ; 2.65; 15200;occ; 118; 0;44893

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7; 915.8; 01-OCT-2010 07:43:40; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;44893
8; 1557.5; 01-OCT-2010 07:54:22; Dark ; 48.5; 52; 16Bet Cet ; 2.04; 4500;occ; 97; 0;44893
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3; 2659.8; 01-OCT-2010 08:12:44; Bright; 51.0; 53; 43Bet And ; 2.05; 3300;occ; 102; 0;44893
4; 2950.9; 01-OCT-2010 08:17:36; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;44893
5; 3031.4; 01-OCT-2010 08:18:56; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;44893
6; 4601.5; 01-OCT-2010 08:45:06; Bright; 77.0; 17; 78Bet Gem ; 1.16; 4500;occ; 154; 0;44893
7; 5587.7; 01-OCT-2010 09:01:32; Dark ; 45.0; 132; 15Rho Pup ; 2.80; 6900;occ; 90; 0;44893
8; 5837.5; 01-OCT-2010 09:05:42; Dark ; 58.0; 37; 25Del CMA ; 1.83; 5900;occ; 116; 0;44893
9; 5995.5; 01-OCT-2010 09:08:20; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44893
10; 6208.1; 01-OCT-2010 09:11:53; Dark ; 58.5; 2; Alp Car ;-0.74; 7000;occ; 117; 0;44894
11; 6344.2; 01-OCT-2010 09:14:09; Dark ; 58.0; 108; Alp Col ; 2.65; 15200;occ; 116; 0;44894
12; 6952.4; 01-OCT-2010 09:24:17; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;44894
13; 7593.6; 01-OCT-2010 09:34:58; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 0;44894
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2; 2434.5; 01-OCT-2010 09:49:35; Bright; 38.5; 58; 21Alp And ; 2.07; 11000;occ; 77; 0;44894
3; 2659.1; 01-OCT-2010 09:53:20; Bright; 51.0; 53; 43Bet And ; 2.05; 3300;occ; 102; 0;44894
4; 2950.6; 01-OCT-2010 09:58:11; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;44894
5; 3031.0; 01-OCT-2010 09:59:32; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;44894
6; 4601.8; 01-OCT-2010 10:25:42; Bright; 61.0; 17; 78Bet Gem ; 1.16; 4500;occ; 122; 0;44894
7; 5588.4; 01-OCT-2010 10:42:09; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;44894
8; 5838.8; 01-OCT-2010 10:46:19; Dark ; 58.0; 37; 25Del CMA ; 1.83; 5900;occ; 116; 0;44894
9; 5996.2; 01-OCT-2010 10:48:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44894
10; 6208.7; 01-OCT-2010 10:52:29; Dark ; 57.5; 2; Alp Car ;-0.74; 7000;occ; 115; 0;44895
11; 6345.7; 01-OCT-2010 10:54:46; Dark ; 59.0; 108; Alp Col ; 2.65; 15200;occ; 118; 0;44895
12; 6953.1; 01-OCT-2010 11:04:54; Dark ; 48.0; 157; The1Eri ; 2.91; 9300;occ; 96; 0;44895
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3; 2432.4; 01-OCT-2010 21:33:44; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44901
4; 2654.2; 01-OCT-2010 21:37:26; Bright; 45.0; 53; 43Bet And ; 2.05; 3300;occ; 90; 0;44901
5; 2948.9; 01-OCT-2010 21:42:21; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;44901
6; 3028.2; 01-OCT-2010 21:43:40; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;44901
7; 4603.5; 01-OCT-2010 22:09:56; Bright; 67.0; 17; 78Bet Gem ; 1.16; 4500;occ; 134; 0;44901
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3; 93.8; 01-OCT-2010 22:35:22; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;44902
4; 177.9; 01-OCT-2010 22:36:46; Dark ; 56.5; 2; Alp Car ;-0.74; 7000;occ; 113; 0;44902
5; 320.3; 01-OCT-2010 22:39:08; Dark ; 57.5; 108; Alp Col ; 2.65; 15200;occ; 115; 0;44902
6; 922.1; 01-OCT-2010 22:49:10; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;44902
7; 1558.6; 01-OCT-2010 22:59:47; Dark ; 48.5; 52; 16Bet Cet ; 2.04; 4500;occ; 97; 0;44902
8; 2183.4; 01-OCT-2010 23:10:11; Bright; 40.0; 140; 88Gam Peg ; 2.83; 26000;occ; 80; 0;44902
9; 2432.1; 01-OCT-2010 23:14:20; Bright; 41.0; 58; 21Alp And ; 2.07; 11000;occ; 82; 0;44902
10; 2653.3; 01-OCT-2010 23:18:01; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;44902
11; 2948.6; 01-OCT-2010 23:22:56; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44902
12; 3027.8; 01-OCT-2010 23:24:16; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44902
13; 4603.8; 01-OCT-2010 23:50:32; Bright; 62.0; 17; 78Bet Gem ; 1.16; 4500;occ; 124; 0;44902
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3; 2658.4; 01-OCT-2010 11:33:55; Bright; 48.5; 53; 43Bet And ; 2.05; 3300;occ; 97; 0;44895
4; 2950.3; 01-OCT-2010 11:38:47; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;44895
5; 3030.5; 01-OCT-2010 11:40:07; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44895
6; 4602.0; 01-OCT-2010 12:06:18; Bright; 71.5; 17; 78Bet Gem ; 1.16; 4500;occ; 143; 0;44895
7; 5589.3; 01-OCT-2010 12:22:46; Dark ; 47.5; 132; 15Rho Pup ; 2.80; 6900;occ; 95; 0;44895
8; 5840.1; 01-OCT-2010 12:26:57; Dark ; 61.0; 37; 25Del CMA ; 1.83; 5900;occ; 122; 0;44895
9; 5996.9; 01-OCT-2010 12:29:33; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44895
10; 6125.2; 01-OCT-2010 12:31:42; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;44895
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12; 6347.2; 01-OCT-2010 12:35:24; Dark ; 59.0; 108; Alp Col ; 2.65; 15200;occ; 118; 0;44895
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4; 2657.7; 01-OCT-2010 13:14:30; Bright; 49.0; 53; 43Bet And ; 2.05; 3300;occ; 98; 0;44896
5; 2950.1; 01-OCT-2010 13:19:22; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;44896
6; 3030.1; 01-OCT-2010 13:20:42; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44896
7; 4602.4; 01-OCT-2010 13:46:55; Bright; 78.0; 17; 78Bet Gem ; 1.16; 4500;occ; 156; 0;44896
8; 5590.1; 01-OCT-2010 14:03:22; Dark ; 47.0; 132; 15Rho Pup ; 2.80; 6900;occ; 94; 0;44896
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11; 6126.1; 01-OCT-2010 14:12:18; Dark ; 49.0; 161; Tau Pup ; 2.93; 4500;occ; 98; 0;44896
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4; 2657.0; 01-OCT-2010 14:55:05; Bright; 51.0; 53; 43Bet And ; 2.05; 3300;occ; 102; 0;44897
5; 2949.9; 01-OCT-2010 14:59:58; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44897
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7; 4602.6; 01-OCT-2010 15:27:31; Bright; 56.0; 17; 78Bet Gem ; 1.16; 4500;occ; 112; 0;44897
8; 5591.4; 01-OCT-2010 15:44:00; Dark ; 45.0; 132; 15Rho Pup ; 2.80; 6900;occ; 90; 0;44897
9; 5842.7; 01-OCT-2010 15:48:11; Dark ; 65.0; 37; 25Del CMA ; 1.83; 5900;occ; 130; 0;44897
10; 5998.5; 01-OCT-2010 15:50:47; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44897
11; 6127.0; 01-OCT-2010 15:52:55; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;44897
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8; 4603.4; 01-OCT-2010 20:29:20; Bright; 64.0; 17; 78Bet Gem ; 1.16; 4500;occ; 128; 0;44900
9; 5593.4; 01-OCT-2010 20:45:49; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;44900
10; 5846.4; 01-OCT-2010 20:50:02; Dark ; 61.5; 37; 25Del CMA ; 1.83; 5900;occ; 123; 0;44900
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5; 2945.4; 02-OCT-2010 21:10:40; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;44915

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2; 2181.5; 02-OCT-2010 15:56:08; Bright; 40.0; 140; 88Gam Peg ; 2.83; 26000;occ; 80; 0;44912
3; 2429.6; 02-OCT-2010 16:00:17; Bright; 41.0; 58; 21Alp And ; 2.07; 11000;occ; 82; 0;44912
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7; 4606.9; 02-OCT-2010 16:36:34; Bright; 37.0; 17; 78Bet Gem ; 1.16; 4500;occ; 74; 0;44912
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9; 5862.1; 02-OCT-2010 16:57:29; Dark ; 64.0; 37; 25Del CMA ; 1.83; 5900;occ; 128; 0;44912
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3; 2428.9; 02-OCT-2010 17:40:52; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44913

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 6; 344.7; 03-OCT-2010 01:29:07; Dark ; 57.0; 108; Alp Col ; 2.65; 15200;occ; 114; 0;44918
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 9; 5764.9; 13-OCT-2010 16:09:50; Dark ; 52.5; 132; 15Rho Pup ; 2.80; 6900;occ; 105; 0;45069
10; 5954.9; 13-OCT-2010 16:13:00; Dark ; 44.5; 70; Zet Pup ; 2.25; 39000;occ; 89; 0;45069
11; 6138.4; 13-OCT-2010 16:16:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45069
12; 6264.3; 13-OCT-2010 16:18:09; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;45069
13; 6346.1; 13-OCT-2010 16:19:31; Dark ; 47.5; 2; Alp Car ;-0.74; 7000;occ; 95; 0;45069
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 2; 2566.1; 13-OCT-2010 16:57:07; Bright; 40.5; 53; 43Bet And ; 2.05; 3300;occ; 81; 0;45070
 3; 2678.4; 13-OCT-2010 16:59:00; Bright; 48.0; 173; 4Bet Tri ; 3.00; 8900;occ; 96; 0;45070
 4; 2786.7; 13-OCT-2010 17:00:48; Bright; 46.5; 73; 57Gam1And ; 2.26; 13100;occ; 93; 0;45070
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 7; 4625.8; 13-OCT-2010 17:31:27; Bright; 41.5; 166; 17Eps Leo ; 2.98; 6000;occ; 83; 0;45070
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13; 6347.1; 13-OCT-2010 18:00:08; Dark ; 48.5; 2; Alp Car ;-0.74; 7000;occ; 97; 0;45070
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 7; 3108.6; 13-OCT-2010 18:46:46; Bright; 48.0; 160; 23Gam Per ; 2.93; 4700;occ; 96; 0;45071
 8; 4626.0; 13-OCT-2010 19:12:03; Bright; 39.5; 166; 17Eps Leo ; 2.98; 6000;occ; 79; 0;45071
 9; 5252.2; 13-OCT-2010 19:22:29; Dark ; 45.0; 48; 30Alp Hya ; 1.98; 4100;occ; 90; 0;45071
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 5; 232.5; 14-OCT-2010 00:41:13; Dark ; 44.5; 161; Tau Pup ; 2.93; 4500;occ; 89; 0;45075
 6; 314.1; 14-OCT-2010 00:42:35; Dark ; 54.5; 2; Alp Car ;-0.74; 7000;occ; 109; 0;45075
 7; 581.9; 14-OCT-2010 00:47:03; Dark ; 61.5; 108; Alp Col ; 2.65; 15200;occ; 123; 0;45075
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 9; 2366.5; 14-OCT-2010 01:16:47; Bright; 48.5; 105; 6Bet Ari ; 2.64; 8900;occ; 97; 0;45075
10; 2564.3; 14-OCT-2010 01:20:05; Bright; 42.5; 53; 43Bet And ; 2.05; 3300;occ; 85; 0;45075
11; 2674.3; 14-OCT-2010 01:21:55; Bright; 48.5; 173; 4Bet Tri ; 3.00; 8900;occ; 97; 0;45075
12; 2783.3; 14-OCT-2010 01:23:44; Bright; 44.0; 73; 57Gam1And ; 2.26; 13100;occ; 88; 0;45075
13; 2974.0; 14-OCT-2010 01:26:55; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;45075
14; 3105.2; 14-OCT-2010 01:29:06; Bright; 45.5; 160; 23Gam Per ; 2.93; 4700;occ; 91; 0;45075
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 4; 107.6; 14-OCT-2010 02:19:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45076
 5; 233.3; 14-OCT-2010 02:21:50; Dark ; 45.0; 161; Tau Pup ; 2.93; 4500;occ; 90; 0;45076
 6; 315.0; 14-OCT-2010 02:23:11; Dark ; 48.5; 2; Alp Car ;-0.74; 7000;occ; 97; 0;45076
 7; 583.6; 14-OCT-2010 02:27:40; Dark ; 64.0; 108; Alp Col ; 2.65; 15200;occ; 128; 0;45076
 8; 1030.3; 14-OCT-2010 02:35:07; Dark ; 47.5; 157; The1Eri ; 2.91; 9300;occ; 95; 0;45076
 9; 2366.0; 14-OCT-2010 02:57:22; Bright; 49.5; 105; 6Bet Ari ; 2.64; 8900;occ; 99; 0;45076
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 11; 2673.6; 14-OCT-2010 03:02:30; Bright; 49.0; 173; 4Bet Tri ; 3.00; 8900;occ; 98; 0;45076
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 5; 108.5; 14-OCT-2010 04:00:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45077
 6; 234.2; 14-OCT-2010 04:02:27; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;45077
 7; 315.9; 14-OCT-2010 04:03:48; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;45077
 8; 584.9; 14-OCT-2010 04:08:17; Dark ; 64.0; 108; Alp Col ; 2.65; 15200;occ; 128; 0;45077
 9; 1030.9; 14-OCT-2010 04:15:43; Dark ; 47.5; 157; The1Eri ; 2.91; 9300;occ; 95; 0;45077
 10; 2365.7; 14-OCT-2010 04:37:58; Bright; 49.0; 105; 6Bet Ari ; 2.64; 8900;occ; 98; 0;45077
 11; 2564.0; 14-OCT-2010 04:41:16; Bright; 42.0; 53; 43Bet And ; 2.05; 3300;occ; 84; 0;45077
 12; 2673.0; 14-OCT-2010 04:43:05; Bright; 48.5; 173; 4Bet Tri ; 3.00; 8900;occ; 97; 0;45077
 13; 2782.3; 14-OCT-2010 04:44:55; Bright; 49.0; 73; 57Gam1And ; 2.26; 13100;occ; 98; 0;45077
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 5; 109.4; 14-OCT-2010 05:40:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45078
 6; 235.2; 14-OCT-2010 05:43:04; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;45078
 7; 316.7; 14-OCT-2010 05:44:25; Dark ; 45.0; 2; Alp Car ;-0.74; 7000;occ; 90; 0;45078
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 9; 1031.3; 14-OCT-2010 05:56:20; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;45078
 10; 2364.9; 14-OCT-2010 06:18:33; Bright; 48.5; 105; 6Bet Ari ; 2.64; 8900;occ; 97; 0;45078
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 13; 2781.4; 14-OCT-2010 06:25:30; Bright; 46.5; 73; 57Gam1And ; 2.26; 13100;occ; 93; 0;45078
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 3; 2560.3; 14-OCT-2010 21:27:12; Bright; 39.0; 53; 43Bet And ; 2.05; 3300;occ; 78; 0;45087
 4; 2665.3; 14-OCT-2010 21:28:57; Bright; 46.5; 173; 4Bet Tri ; 3.00; 8900;occ; 93; 0;45087
 5; 2775.4; 14-OCT-2010 21:30:47; Bright; 48.5; 73; 57Gam1And ; 2.26; 13100;occ; 97; 0;45087
 6; 2971.1; 14-OCT-2010 21:34:03; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;45087
 7; 3095.8; 14-OCT-2010 21:36:08; Bright; 44.0; 160; 23Gam Per ; 2.93; 4700;occ; 88; 0;45087
 8; 4630.0; 14-OCT-2010 22:01:42; Bright; 42.5; 166; 17Eps Leo ; 2.98; 6000;occ; 85; 0;45087
 9; 4824.7; 14-OCT-2010 22:04:56; Bright; 39.0; 22; 32Alp Leo ; 1.36; 15200;occ; 78; 0;45087
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 4; 119.1; 15-OCT-2010 00:07:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45089
 5; 244.2; 15-OCT-2010 00:09:48; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;45089
 6; 325.5; 15-OCT-2010 00:11:09; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;45089
 7; 602.3; 15-OCT-2010 00:15:46; Dark ; 25.0; 108; Alp Col ; 2.65; 15200;occ; 50; 0;45089
 8; 1037.2; 15-OCT-2010 00:23:01; Dark ; 45.5; 157; The1Eri ; 2.91; 9300;occ; 91; 0;45089
 9; 2358.4; 15-OCT-2010 00:45:02; Bright; 46.5; 105; 6Bet Ari ; 2.64; 8900;occ; 93; 0;45089


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13; 2970.5; 15-OCT-2010 00:55:14; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;45089
14; 3094.1; 15-OCT-2010 00:57:17; Bright; 47.5; 160; 23Gam Per ; 2.93; 4700;occ; 95; 0;45089
15; 4630.4; 15-OCT-2010 01:22:54; Bright; 55.5; 166; 17Eps Leo ; 2.98; 6000;occ; 111; 0;45089
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 5; 80.1; 14-OCT-2010 07:21:04; Dark ; 65.0; 37; 25Del CMa ; 1.83; 5900;occ; 130; 0;45079
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 9; 5257.9; 14-OCT-2010 10:27:58; Dark ; 52.5; 48; 30Alp Hya ; 1.98; 4100;occ; 105; 0;45080
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11; 6019.3; 14-OCT-2010 10:40:40; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;45080
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 6; 122.6; 15-OCT-2010 06:50:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45093
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 8; 328.8; 15-OCT-2010 06:53:36; Dark ; 50.0; 2; Alp Car ; -0.74; 7000;occ; 100; 0;45093
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 4; 2771.4; 15-OCT-2010 07:34:18; Bright; 47.5; 73; 57Gam1And ; 2.26; 13100;occ; 95; 0;45093
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 8; 4826.7; 15-OCT-2010 08:08:34; Bright; 56.5; 22; 32Alp Leo ; 1.36; 15200;occ; 113; 0;45093
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3; 2660.0; 15-OCT-2010 09:13:03; Bright; 48.0; 173; 4Bet Tri ; 3.00; 8900;occ; 96; 0;45094
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6; 3090.4; 15-OCT-2010 09:20:13; Bright; 47.0; 160; 23Gam Per ; 2.93; 4700;occ; 94; 0;45094
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9; 5267.2; 15-OCT-2010 09:56:30; Dark ; 52.5; 48; 30Alp Hya ; 1.98; 4100;occ; 105; 0;45094
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13; 6285.5; 15-OCT-2010 10:13:28; Dark ; 46.5; 161; Tau Pup ; 2.93; 4500;occ; 93; 0;45094
14; 6366.2; 15-OCT-2010 10:14:49; Dark ; 62.0; 2; Alp Car ; -0.74; 7000;occ; 124; 0;45094
15; 7076.2; 15-OCT-2010 10:26:39; Dark ; 46.5; 157; The1Eri ; 2.91; 9300;occ; 93; 0;45094
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3; 2659.5; 15-OCT-2010 10:53:38; Bright; 46.5; 173; 4Bet Tri ; 3.00; 8900;occ; 93; 0;45095
4; 2770.1; 15-OCT-2010 10:55:29; Bright; 49.5; 73; 57Gam1And ; 2.26; 13100;occ; 99; 0;45095
5; 2969.2; 15-OCT-2010 10:58:48; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;45095
6; 3089.3; 15-OCT-2010 11:00:48; Bright; 48.5; 160; 23Gam Per ; 2.93; 4700;occ; 97; 0;45095
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5; 2969.0; 15-OCT-2010 12:39:24; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;45096
6; 3088.7; 15-OCT-2010 12:41:23; Bright; 48.0; 160; 23Gam Per ; 2.93; 4700;occ; 96; 0;45096
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4; 2769.0; 15-OCT-2010 14:16:40; Bright; 48.5; 73; 57Gam1And ; 2.26; 13100;occ; 97; 0;45097
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17; 5808.7; 16-OCT-2010 02:51:31; Dark ; 53.5; 132; 15Rho Pup ; 2.80; 6900;occ; 107; 0;45104

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4; 157.5; 18-OCT-2010 00:14:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45132
5; 360.5; 18-OCT-2010 00:17:28; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;45132
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13; 4641.4; 18-OCT-2010 01:28:49; Bright; 43.0; 166; 17Eps Leo ; 2.98; 6000;occ; 86; 0;45132
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7; 352.7; 17-OCT-2010 07:31:21; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;45122
8; 1053.8; 17-OCT-2010 07:43:02; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;45122
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3; 2640.4; 17-OCT-2010 08:09:29; Bright; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;45122
4; 2753.3; 17-OCT-2010 08:11:22; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;45122
5; 2982.0; 17-OCT-2010 08:15:11; Bright; 37.5; 110; 37Del Cas ; 2.68; 8900;occ; 75; 0;45122
6; 3068.6; 17-OCT-2010 08:16:37; Bright; 47.5; 160; 23Gam Per ; 2.93; 4700;occ; 95; 0;45122
7; 4639.0; 17-OCT-2010 08:42:48; Bright; 50.0; 166; 17Eps Leo ; 2.98; 6000;occ; 100; 0;45122
8; 4836.7; 17-OCT-2010 08:46:05; Bright; 58.0; 22; 32Alp Leo ; 1.36; 15200;occ; 116; 0;45122
9; 5287.0; 17-OCT-2010 08:53:36; Dark ; 52.5; 48; 30Alp Hya ; 1.98; 4100;occ; 105; 0;45122

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 9; 5287.7; 17-OCT-2010 10:34:12; Dark ; 49.0; 48; 30Alp Hya ; 1.98; 4100;occ; 98; 0;45123
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13; 6390.1; 17-OCT-2010 10:52:35; Dark ; 60.5; 2; Alp Car ; -0.74; 7000;occ; 121; 0;45123
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 3; 2639.0; 17-OCT-2010 11:30:39; Bright; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;45124
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 9; 5288.4; 17-OCT-2010 12:14:49; Dark ; 52.0; 48; 30Alp Hya ; 1.98; 4100;occ; 104; 0;45124
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 6; 3066.4; 17-OCT-2010 13:18:23; Bright; 47.0; 160; 23Gam Per ; 2.93; 4700;occ; 94; 0;45125
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4; 2969.3; 20-OCT-2010 13:22:30; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;45168
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4; 2965.7; 21-OCT-2010 14:31:25; Bright; 37.0; 110; 37Del Cas ; 2.68; 8900;occ; 74; 0;45183
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6; 4655.9; 21-OCT-2010 14:59:35; Bright; 46.5; 166; 17Eps Leo ; 2.98; 6000;occ; 93; 0;45183
7; 4860.2; 21-OCT-2010 15:02:59; Bright; 43.5; 22; 32Alp Leo ; 1.36; 15200;occ; 87; 0;45183
8; 5335.9; 21-OCT-2010 15:10:55; Dark ; 55.0; 48; 30Alp Hya ; 1.98; 4100;occ; 110; 0;45183
9; 5921.1; 21-OCT-2010 15:20:40; Dark ; 59.0; 132; 15Rho Pup ; 2.80; 6900;occ; 118; 0;45183

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