

GOMOS Daily Report 16-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	18OCT2010 04:34:26
Data source version	GOMOS/5.01
Start time of products	16OCT2010 00:13:17
Stop time of products	16OCT2010 23:53:41
Store outputs in DB	Yes
Nb of level 1b prods	97
Nb of prods with errors	1

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

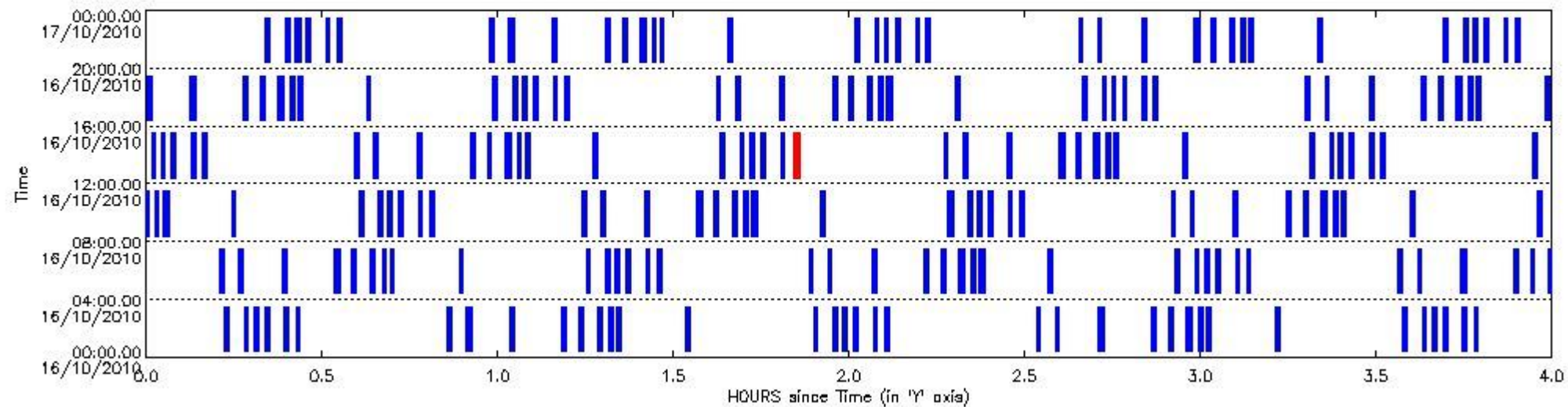
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
16-OCT-2010 13:50:25	23GamPer	160	45111

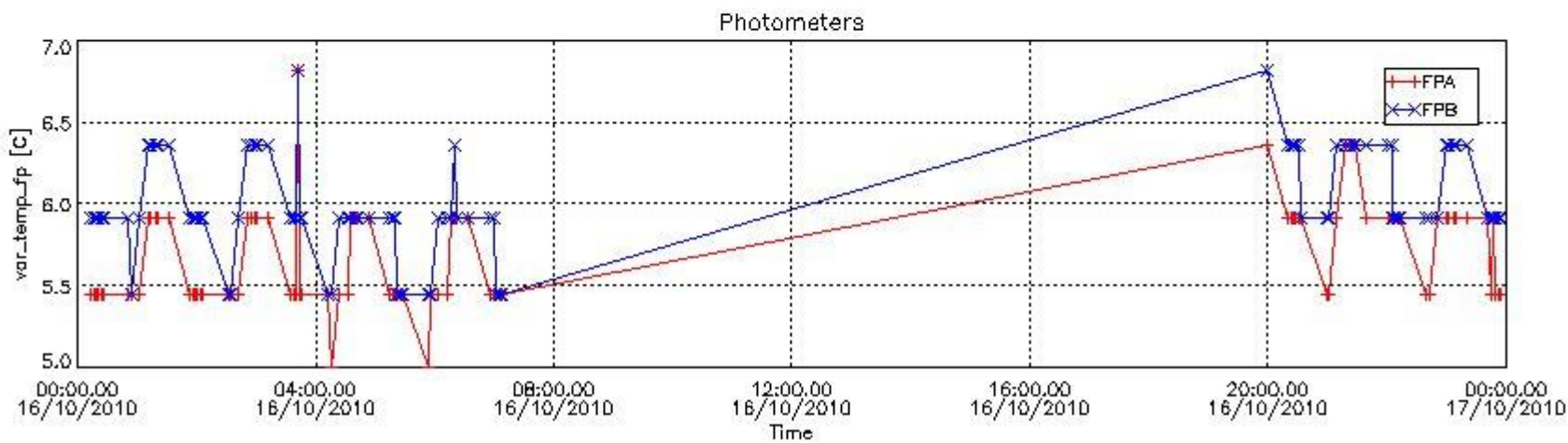
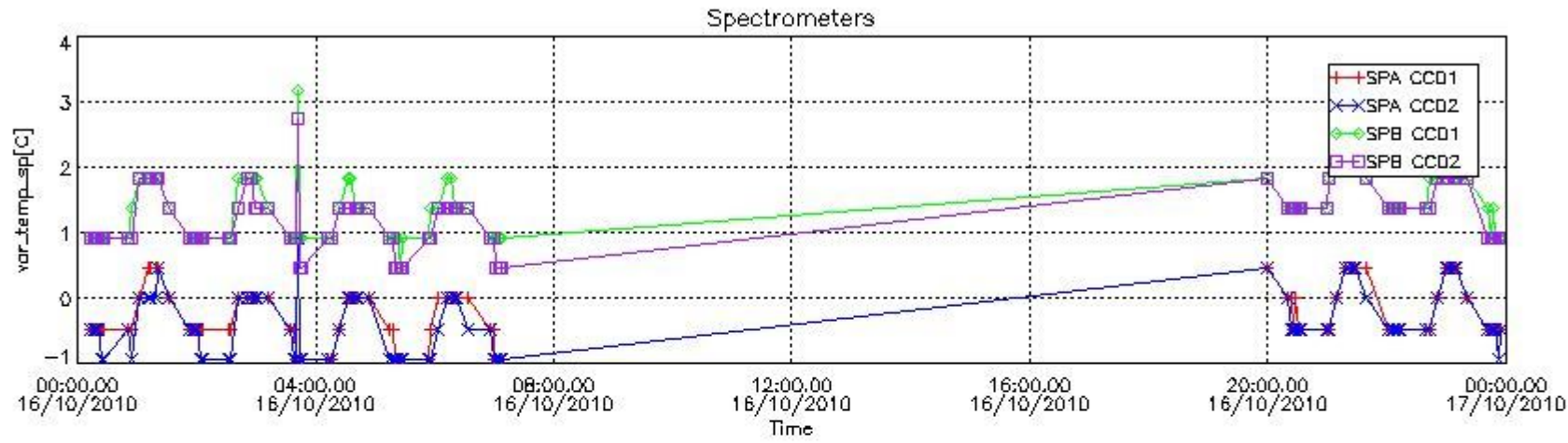
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20101016_001317_000000462093_00460_45103_2407.N1	16-OCT-2010 00:13:17	Bright	45.500	105	6Bet Ari	2.6450	8900.0	91	45103	No
2	GOM_TRA_1PNPDE20101016_001641_000000402093_00460_45103_2408.N1	16-OCT-2010 00:16:41	Bright	39.500	53	43Bet And	2.0480	3300.0	79	45103	No
3	GOM_TRA_1PNPDE20101016_001820_000000472093_00460_45103_2409.N1	16-OCT-2010 00:18:20	Bright	47.000	173	4Bet Tri	3.0040	8900.0	94	45103	No
4	GOM_TRA_1PNPDE20101016_002011_000000472093_00460_45103_2410.N1	16-OCT-2010 00:20:11	Bright	46.500	73	57Gam1And	2.2600	13100.	93	45103	No
5	GOM_TRA_1PNPDE20101016_002334_000000392093_00460_45103_2411.N1	16-OCT-2010 00:23:34	Bright	38.500	76	27Gam Cas	2.3000	30000.	77	45103	No
6	GOM_TRA_1PNPDE20101016_002529_000000442093_00460_45103_2412.N1	16-OCT-2010 00:25:29	Bright	44.000	160	23Gam Per	2.9300	4700.0	88	45103	No
7	GOM_TRA_1PNPDE20101016_005120_000000442093_00460_45103_2413.N1	16-OCT-2010 00:51:20	Bright	43.500	166	17Eps Leo	2.9800	6000.0	87	45103	No
8	GOM_TRA_1PNPDE20101016_005436_000000572093_00460_45103_2414.N1	16-OCT-2010 00:54:36	Bright	57.000	22	32Alp Leo	1.3600	15200.	114	45103	No
9	GOM_TRA_1PNPDE20101016_010200_000000582093_00460_45103_2430.N1	16-OCT-2010 01:02:00	Dark	58.000	48	30Alp Hya	1.9770	4100.0	116	45103	No
10	GOM_TRA_1PNPDE20101016_011054_000000532093_00460_45103_2431.N1	16-OCT-2010 01:10:54	Dark	53.000	132	15Rho Pup	2.8030	6900.0	106	45103	No

11	GOM_TRA_1PNPDE20101016_011352_000000482093_00460_45103_2432.N1	16-OCT-2010 01:13:52	Dark	47.500	70	Zet Pup	2.2460	39000.	95	45103	No
12	GOM_TRA_1PNPDE20101016_011859_000000452093_00461_45104_2433.N1	16-OCT-2010 01:18:59	Dark	45.000	161	Tau Pup	2.9310	4500.0	90	45104	No
13	GOM_TRA_1PNPDE20101016_012020_000000472093_00461_45104_2434.N1	16-OCT-2010 01:20:20	Dark	46.500	2	Alp Car	-0.73600	7000.0	93	45104	No
14	GOM_TRA_1PNPDE20101016_013207_000000462093_00461_45104_2435.N1	16-OCT-2010 01:32:07	Straylight	46.000	157	The1Eri	2.9060	9300.0	92	45104	No
15	GOM_TRA_1PNPDE20101016_015352_000000482093_00461_45104_2436.N1	16-OCT-2010 01:53:52	Bright	47.500	105	6Bet Ari	2.6450	8900.0	95	45104	No
16	GOM_TRA_1PNPDE20101016_015716_000000432093_00461_45104_2437.N1	16-OCT-2010 01:57:16	Bright	43.000	53	43Bet And	2.0480	3300.0	86	45104	No
17	GOM_TRA_1PNPDE20101016_015855_000000472093_00461_45104_2438.N1	16-OCT-2010 01:58:55	Bright	47.000	173	4Bet Tri	3.0040	8900.0	94	45104	No
18	GOM_TRA_1PNPDE20101016_020046_000000472093_00461_45104_2439.N1	16-OCT-2010 02:00:46	Bright	46.500	73	57Gam1And	2.2600	13100.	93	45104	No
19	GOM_TRA_1PNPDE20101016_020410_000000362093_00461_45104_2440.N1	16-OCT-2010 02:04:10	Bright	36.000	76	27Gam Cas	2.3000	30000.	72	45104	No
20	GOM_TRA_1PNPDE20101016_020604_000000452093_00461_45104_2441.N1	16-OCT-2010 02:06:04	Bright	45.000	160	23Gam Per	2.9300	4700.0	90	45104	No
21	GOM_TRA_1PNPDE20101016_023156_000000432093_00461_45104_2442.N1	16-OCT-2010 02:31:56	Bright	42.500	166	17Eps Leo	2.9800	6000.0	85	45104	No
22	GOM_TRA_1PNPDE20101016_023512_000000402093_00461_45104_2443.N1	16-OCT-2010 02:35:12	Bright	40.000	22	32Alp Leo	1.3600	15200.	80	45104	No
23	GOM_TRA_1PNPDE20101016_024236_000000512093_00461_45104_2444.N1	16-OCT-2010 02:42:36	Dark	51.000	48	30Alp Hya	1.9770	4100.0	102	45104	No
24	GOM_TRA_1PNPDE20101016_025131_000000542093_00461_45104_2445.N1	16-OCT-2010 02:51:31	Dark	53.500	132	15Rho Pup	2.8030	6900.0	107	45104	No
25	GOM_TRA_1PNPDE20101016_025429_000000452093_00461_45104_2446.N1	16-OCT-2010 02:54:29	Dark	45.000	70	Zet Pup	2.2460	39000.	90	45104	No
26	GOM_TRA_1PNPDE20101016_025936_000000442093_00462_45105_2447.N1	16-OCT-2010 02:59:36	Dark	44.000	161	Tau Pup	2.9310	4500.0	88	45105	No
27	GOM_TRA_1PNPDE20101016_030056_000000462093_00462_45105_2448.N1	16-OCT-2010 03:00:56	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	45105	No
28	GOM_TRA_1PNPDE20101016_031243_000000462093_00462_45105_2449.N1	16-OCT-2010 03:12:43	Straylight	45.500	157	The1Eri	2.9060	9300.0	91	45105	No
29	GOM_TRA_1PNPDE20101016_033428_000000472093_00462_45105_2450.N1	16-OCT-2010 03:34:28	Bright	46.500	105	6Bet Ari	2.6450	8900.0	93	45105	No
30	GOM_TRA_1PNPDE20101016_033752_000000402093_00462_45105_2451.N1	16-OCT-2010 03:37:52	Bright	39.500	53	43Bet And	2.0480	3300.0	79	45105	No
31	GOM_TRA_1PNPDE20101016_033930_000000472093_00462_45105_2452.N1	16-OCT-2010 03:39:30	Bright	46.500	173	4Bet Tri	3.0040	8900.0	93	45105	No
32	GOM_TRA_1PNPDE20101016_034122_000000462093_00462_45105_2452.N1	16-OCT-2010 03:41:22	Bright	46.000	73	57Gam1And	2.2600	13100.	92	45105	Yes
33	GOM_TRA_1PNPDE20101016_034445_000000362093_00462_45105_2453.N1	16-OCT-2010 03:44:45	Bright	35.500	76	27Gam Cas	2.3000	30000.	71	45105	No
34	GOM_TRA_1PNPDE20101016_034640_000000452093_00462_45105_2454.N1	16-OCT-2010 03:46:40	Bright	45.000	160	23Gam Per	2.9300	4700.0	90	45105	No
35	GOM_TRA_1PNPDE20101016_041232_000000402093_00462_45105_2455.N1	16-OCT-2010 04:12:32	Bright	40.000	166	17Eps Leo	2.9800	6000.0	80	45105	No
36	GOM_TRA_1PNPDE20101016_041549_000000412093_00462_45105_2456.N1	16-OCT-2010 04:15:49	Bright	41.000	22	32Alp Leo	1.3600	15200.	82	45105	No
37	GOM_TRA_1PNPDE20101016_042313_000000532093_00462_45105_2457.N1	16-OCT-2010 04:23:13	Dark	53.000	48	30Alp Hya	1.9770	4100.0	106	45105	No
38	GOM_TRA_1PNPDE20101016_043208_000000532093_00462_45105_2458.N1	16-OCT-2010 04:32:08	Dark	52.500	132	15Rho Pup	2.8030	6900.0	105	45105	No
39	GOM_TRA_1PNPDE20101016_043506_000000472093_00462_45105_2459.N1	16-OCT-2010 04:35:06	Dark	46.500	70	Zet Pup	2.2460	39000.	93	45105	No
40	GOM_TRA_1PNPDE20101016_044013_000000442093_00463_45106_2460.N1	16-OCT-2010 04:40:13	Dark	44.000	161	Tau Pup	2.9310	4500.0	88	45106	No
41	GOM_TRA_1PNPDE20101016_044133_000000482093_00463_45106_2461.N1	16-OCT-2010 04:41:33	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	45106	No
42	GOM_TRA_1PNPDE20101016_045320_000000442093_00463_45106_2462.N1	16-OCT-2010 04:53:20	Straylight	44.000	157	The1Eri	2.9060	9300.0	88	45106	No
43	GOM_TRA_1PNPDE20101016_051503_000000472093_00463_45106_2463.N1	16-OCT-2010 05:15:03	Bright	47.000	105	6Bet Ari	2.6450	8900.0	94	45106	No
44	GOM_TRA_1PNPDE20101016_051828_000000432093_00463_45106_2464.N1	16-OCT-2010 05:18:28	Bright	42.500	53	43Bet And	2.0480	3300.0	85	45106	No
45	GOM_TRA_1PNPDE20101016_052005_000000462093_00463_45106_2465.N1	16-OCT-2010 05:20:05	Bright	46.000	173	4Bet Tri	3.0040	8900.0	92	45106	No
46	GOM_TRA_1PNPDE20101016_052157_000000462093_00463_45106_2466.N1	16-OCT-2010 05:21:57	Bright	46.000	73	57Gam1And	2.2600	13100.	92	45106	No
47	GOM_TRA_1PNPDE20101016_052521_000000392093_00463_45106_2467.N1	16-OCT-2010 05:25:21	Bright	38.500	76	27Gam Cas	2.3000	30000.	77	45106	No
48	GOM_TRA_1PNPDE20101016_052715_000000482093_00463_45106_2468.N1	16-OCT-2010 05:27:15	Bright	47.500	160	23Gam Per	2.9300	4700.0	95	45106	No
49	GOM_TRA_1PNPDE20101016_055309_000000432093_00463_45106_2484.N1	16-OCT-2010 05:53:09	Bright	42.500	166	17Eps Leo	2.9800	6000.0	85	45106	No
50	GOM_TRA_1PNPDE20101016_055625_000000412093_00463_45106_2485.N1	16-OCT-2010 05:56:25	Bright	40.500	22	32Alp Leo	1.3600	15200.	81	45106	No
51	GOM_TRA_1PNPDE20101016_060350_000000522093_00463_45106_2486.N1	16-OCT-2010 06:03:50	Dark	51.500	48	30Alp Hya	1.9770	4100.0	103	45106	No
52	GOM_TRA_1PNPDE20101016_061245_000000562093_00463_45106_2487.N1	16-OCT-2010 06:12:45	Dark	56.000	132	15Rho Pup	2.8030	6900.0	112	45106	No
53	GOM_TRA_1PNPDE20101016_061543_000000442093_00463_45106_2488.N1	16-OCT-2010 06:15:43	Dark	44.000	70	Zet Pup	2.2460	39000.	88	45106	No
54	GOM_TRA_1PNPDE20101016_062050_000000502093_00464_45107_2489.N1	16-OCT-2010 06:20:50	Dark	49.500	161	Tau Pup	2.9310	4500.0	99	45107	No
55	GOM_TRA_1PNPDE20101016_062210_000000602093_00464_45107_2490.N1	16-OCT-2010 06:22:10	Dark	60.000	2	Alp Car	-0.73600	7000.0	120	45107	No
56	GOM_TRA_1PNPDE20101016_063356_000000452093_00464_45107_2491.N1	16-OCT-2010 06:33:56	Straylight	45.000	157	The1Eri	2.9060	9300.0	90	45107	No
57	GOM_TRA_1PNPDE20101016_065539_000000482093_00464_45107_2492.N1	16-OCT-2010 06:55:39	Bright	48.000	105	6Bet Ari	2.6450	8900.0	96	45107	No
58	GOM_TRA_1PNPDE20101016_065903_000000442093_00464_45107_2493.N1	16-OCT-2010 06:59:03	Bright	43.500	53	43Bet And	2.0480	3300.0	87	45107	No
59	GOM_TRA_1PNPDE20101016_070041_000000472093_00464_45107_2494.N1	16-OCT-2010 07:00:41	Bright	47.000	173	4Bet Tri	3.0040	8900.0	94	45107	No
60	GOM_TRA_1PNPDE20101016_070232_000000442093_00464_45107_2495.N1	16-OCT-2010 07:02:32	Bright	43.500	73	57Gam1And	2.2600	13100.	87	45107	No
61	GOM_TRA_1PNPDE20101016_070557_000000392093_00464_45107_2496.N1	16-OCT-2010 07:05:57	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	45107	No
62	GOM_TRA_1PNPDE20101016_070750_000000472093_00464_45107_2497.N1	16-OCT-2010 07:07:50	Bright	47.000	160	23Gam Per	2.9300	4700.0	94	45107	No
63	GOM_TRA_1PNPDE20101016_195847_000000442093_00472_45115_2537.N1	16-OCT-2010 19:58:47	Straylight	44.000	157	The1Eri	2.9060	9300.0	88	45115	No
64	GOM_TRA_1PNPDE20101016_202021_000000472093_00472_45115_2538.N1	16-OCT-2010 20:20:21	Bright	46.500	105	6Bet Ari	2.6450	8900.0	93	45115	No
65	GOM_TRA_1PNPDE20101016_202348_000000412093_00472_45115_2539.N1	16-OCT-2010 20:23:48	Bright	40.500	53	43Bet And	2.0480	3300.0	81	45115	No
66	GOM_TRA_1PNPDE20101016_202522_000000692093_00472_45115_2540.N1	16-OCT-2010 20:25:22	Bright	69.000	173	4Bet Tri	3.0040	8900.0	138	45115	No
67	GOM_TRA_1PNPDE20101016_202715_000000482093_00472_45115_2541.N1	16-OCT-2010 20:27:15	Bright	48.000	73	57Gam1And	2.2600	13100.	96	45115	No
68	GOM_TRA_1PNPDE20101016_203042_000000392093_00472_45115_2542.N1	16-OCT-2010 20:30:42	Bright	38.500	76	27Gam Cas	2.3000	30000.	77	45115	No
69	GOM_TRA_1PNPDE20101016_203231_000000462093_00472_45115_2543.N1	16-OCT-2010 20:32:31	Bright	45.500	160	23Gam Per	2.9300	4700.0	91	45115	No

70	GOM_TRA_1PNPDE20101016_205834_000000422093_00472_45115_2544.N1	16-OCT-2010 20:58:34	Bright	42.000	166	17Eps Leo	2.9800	6000.0	84	45115	No
71	GOM_TRA_1PNPDE20101016_210151_000000582093_00472_45115_2555.N1	16-OCT-2010 21:01:51	Bright	58.000	22	32Alp Leo	1.3600	15200.	116	45115	No
72	GOM_TRA_1PNPDE20101016_210919_000000522093_00472_45115_2556.N1	16-OCT-2010 21:09:19	Dark	52.000	48	30Alp Hya	1.9770	4100.0	104	45115	No
73	GOM_TRA_1PNPDE20101016_211821_000000552093_00472_45115_2557.N1	16-OCT-2010 21:18:21	Dark	55.000	132	15Rho Pup	2.8030	6900.0	110	45115	No
74	GOM_TRA_1PNPDE20101016_212115_000000462093_00472_45115_2558.N1	16-OCT-2010 21:21:15	Dark	45.500	70	Zet Pup	2.2460	39000.	91	45115	No
75	GOM_TRA_1PNPDE20101016_212621_000000442093_00473_45116_2559.N1	16-OCT-2010 21:26:21	Dark	43.500	161	Tau Pup	2.9310	4500.0	87	45116	No
76	GOM_TRA_1PNPDE20101016_212741_000000452093_00473_45116_2560.N1	16-OCT-2010 21:27:41	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	45116	No
77	GOM_TRA_1PNPDE20101016_213924_000000452093_00473_45116_2561.N1	16-OCT-2010 21:39:24	Straylight	44.500	157	The1Eri	2.9060	9300.0	89	45116	No
78	GOM_TRA_1PNPDE20101016_220057_000000462093_00473_45116_2562.N1	16-OCT-2010 22:00:57	Bright	46.000	105	6Bet Ari	2.6450	8900.0	92	45116	No
79	GOM_TRA_1PNPDE20101016_220424_000000432093_00473_45116_2563.N1	16-OCT-2010 22:04:24	Bright	42.500	53	43Bet And	2.0480	3300.0	85	45116	No
80	GOM_TRA_1PNPDE20101016_220557_000000472093_00473_45116_2564.N1	16-OCT-2010 22:05:57	Bright	46.500	173	4Bet Tri	3.0040	8900.0	93	45116	No
81	GOM_TRA_1PNPDE20101016_220750_000000482093_00473_45116_2565.N1	16-OCT-2010 22:07:50	Bright	47.500	73	57Gam1And	2.2600	13100.	95	45116	No
82	GOM_TRA_1PNPDE20101016_221120_000000382093_00473_45116_2566.N1	16-OCT-2010 22:11:20	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	45116	No
83	GOM_TRA_1PNPDE20101016_221306_000000442093_00473_45116_2567.N1	16-OCT-2010 22:13:06	Bright	43.500	160	23Gam Per	2.9300	4700.0	87	45116	No
84	GOM_TRA_1PNPDE20101016_223910_000000472093_00473_45116_2568.N1	16-OCT-2010 22:39:10	Bright	46.500	166	17Eps Leo	2.9800	6000.0	93	45116	No
85	GOM_TRA_1PNPDE20101016_224228_000000422093_00473_45116_2569.N1	16-OCT-2010 22:42:28	Bright	42.000	22	32Alp Leo	1.3600	15200.	84	45116	No
86	GOM_TRA_1PNPDE20101016_224956_000000552093_00473_45116_2578.N1	16-OCT-2010 22:49:56	Dark	54.500	48	30Alp Hya	1.9770	4100.0	109	45116	No
87	GOM_TRA_1PNPDE20101016_225858_000000522093_00473_45116_2579.N1	16-OCT-2010 22:58:58	Dark	51.500	132	15Rho Pup	2.8030	6900.0	103	45116	No
88	GOM_TRA_1PNPDE20101016_230152_000000462093_00473_45116_2580.N1	16-OCT-2010 23:01:52	Dark	45.500	70	Zet Pup	2.2460	39000.	91	45116	No
89	GOM_TRA_1PNPDE20101016_230657_000000452093_00474_45117_2581.N1	16-OCT-2010 23:06:57	Dark	44.500	161	Tau Pup	2.9310	4500.0	89	45117	No
90	GOM_TRA_1PNPDE20101016_230817_000000472093_00474_45117_2582.N1	16-OCT-2010 23:08:17	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	45117	No
91	GOM_TRA_1PNPDE20101016_232000_000000452093_00474_45117_2583.N1	16-OCT-2010 23:20:00	Straylight	44.500	157	The1Eri	2.9060	9300.0	89	45117	No
92	GOM_TRA_1PNPDE20101016_234132_000000472093_00474_45117_2584.N1	16-OCT-2010 23:41:32	Bright	47.000	105	6Bet Ari	2.6450	8900.0	94	45117	No
93	GOM_TRA_1PNPDE20101016_234459_000000422093_00474_45117_2585.N1	16-OCT-2010 23:44:59	Bright	41.500	53	43Bet And	2.0480	3300.0	83	45117	No
94	GOM_TRA_1PNPDE20101016_234633_000000462093_00474_45117_2586.N1	16-OCT-2010 23:46:33	Bright	46.000	173	4Bet Tri	3.0040	8900.0	92	45117	No
95	GOM_TRA_1PNPDE20101016_234825_000000432093_00474_45117_2587.N1	16-OCT-2010 23:48:25	Bright	43.000	73	57Gam1And	2.2600	13100.	86	45117	No
96	GOM_TRA_1PNPDE20101016_235159_000000322093_00474_45117_2588.N1	16-OCT-2010 23:51:59	Bright	31.500	76	27Gam Cas	2.3000	30000.	63	45117	No
97	GOM_TRA_1PNPDE20101016_235341_000000482093_00474_45117_2589.N1	16-OCT-2010 23:53:41	Bright	47.500	160	23Gam Per	2.9300	4700.0	95	45117	No

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



4. Overview of dark signal processing per product

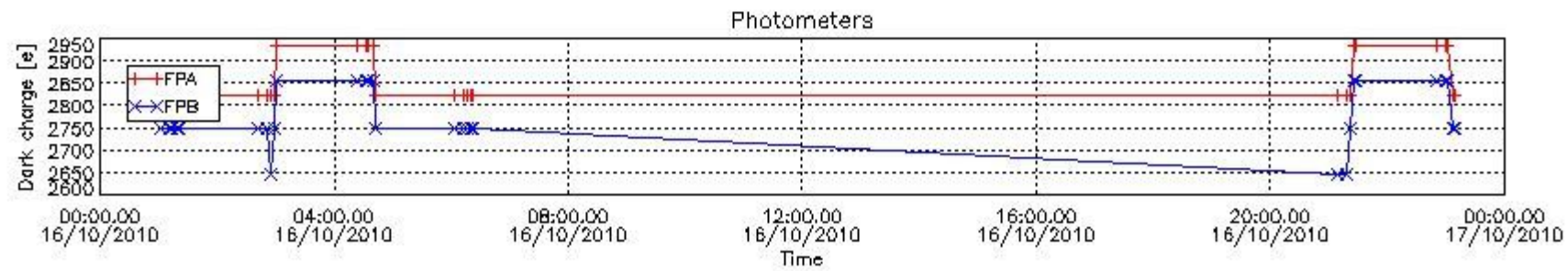
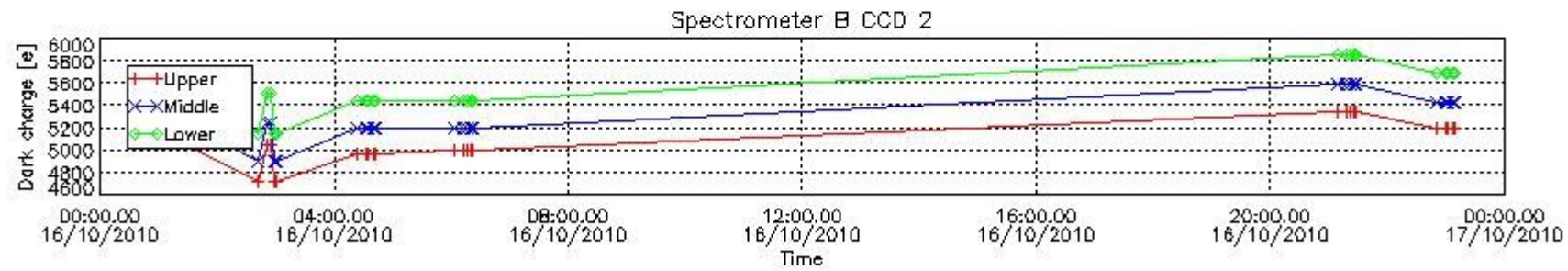
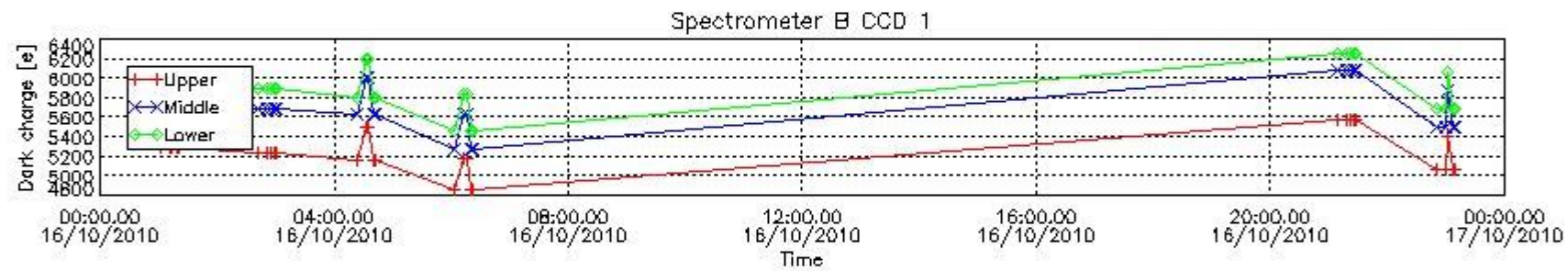
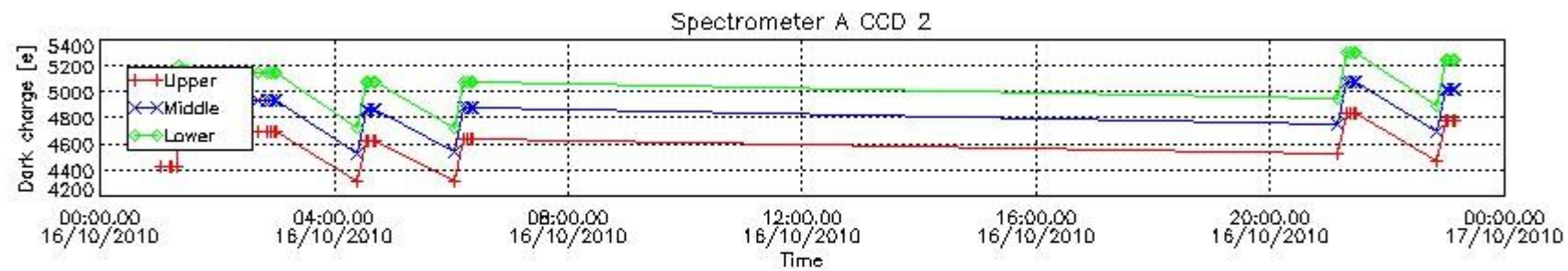
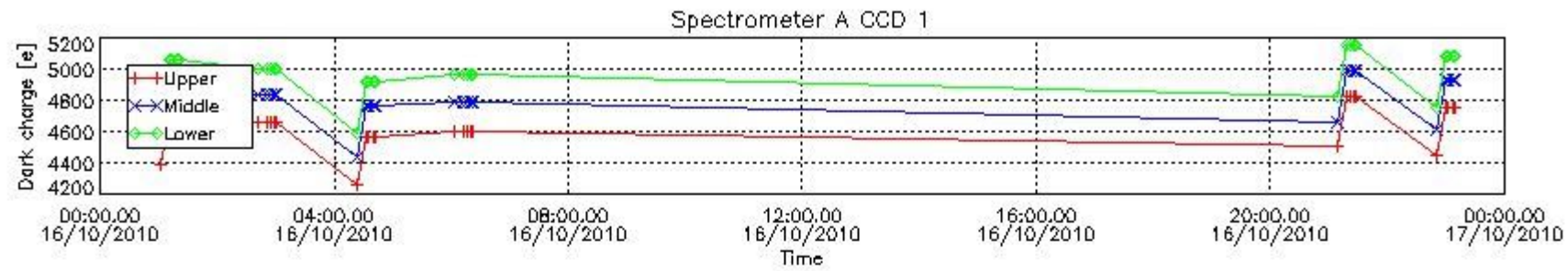
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20101016_195847_000000442093_00472_45115_2537.N1	DC map used
GOM_TRA_1PNPDE20101016_202021_000000472093_00472_45115_2538.N1	DC map used
GOM_TRA_1PNPDE20101016_202348_000000412093_00472_45115_2539.N1	DC map used
GOM_TRA_1PNPDE20101016_202522_000000692093_00472_45115_2540.N1	DC map used
GOM_TRA_1PNPDE20101016_202715_000000482093_00472_45115_2541.N1	DC map used
GOM_TRA_1PNPDE20101016_203042_000000392093_00472_45115_2542.N1	DC map used
GOM_TRA_1PNPDE20101016_203231_000000462093_00472_45115_2543.N1	DC map used
GOM_TRA_1PNPDE20101016_205834_000000422093_00472_45115_2544.N1	DC map used

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



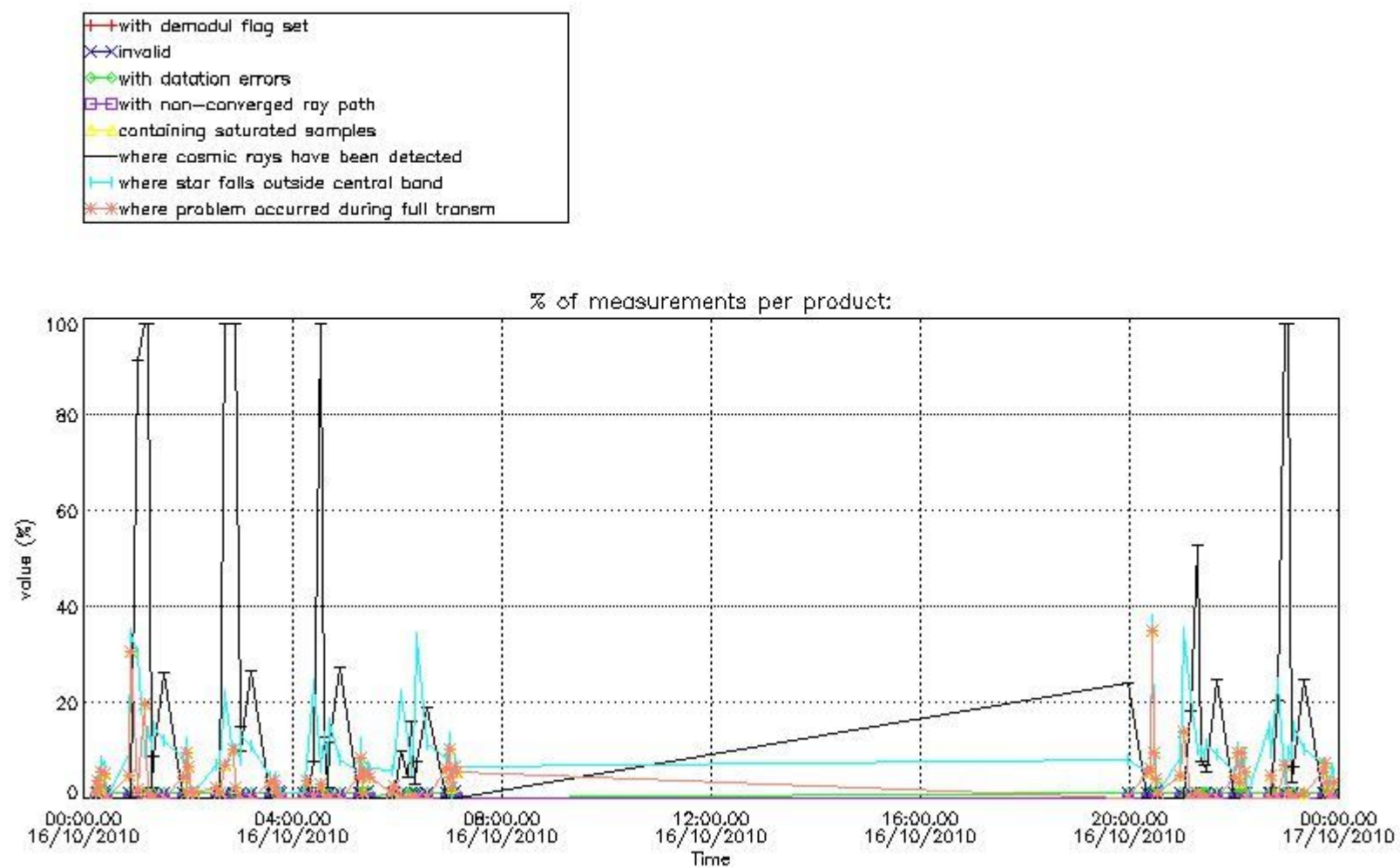
5. Demodulation flag and quality information monitoring

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.

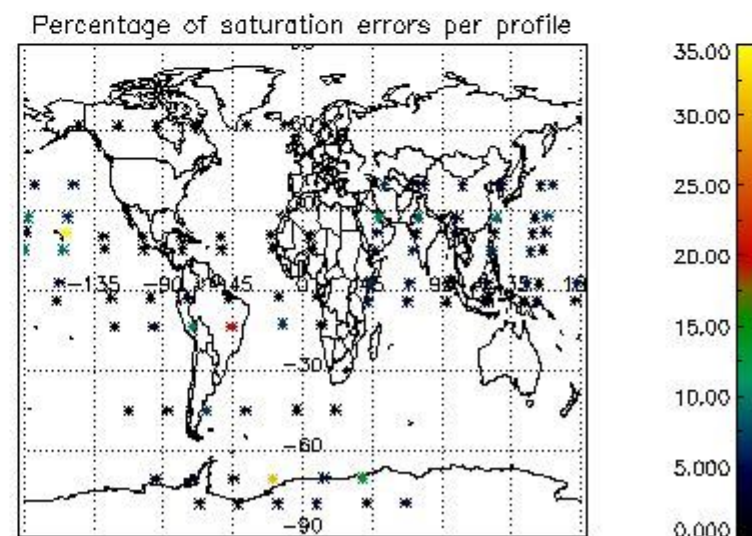
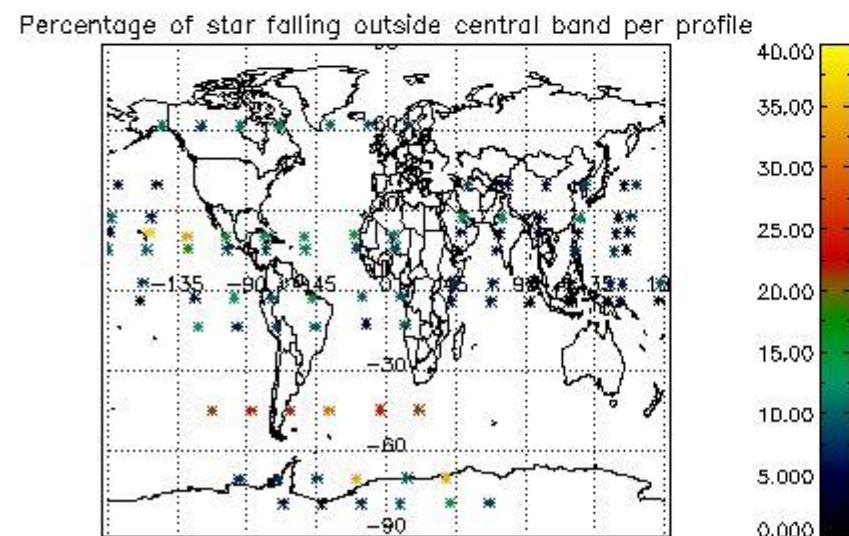
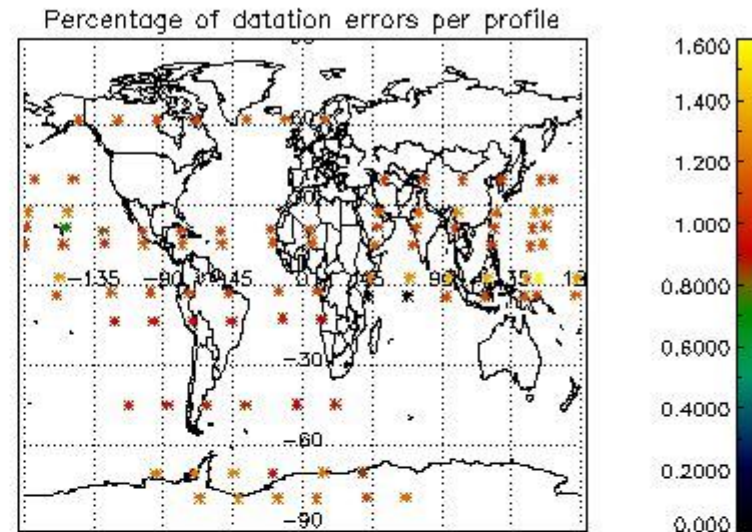
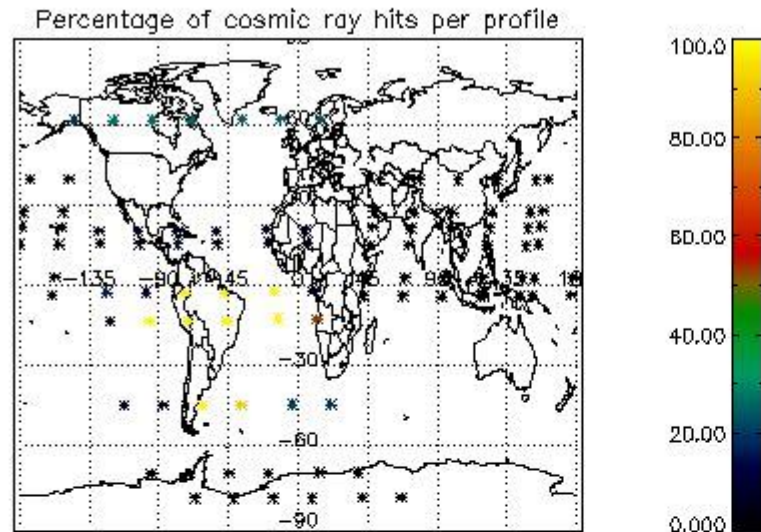
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	32.2917 %
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)



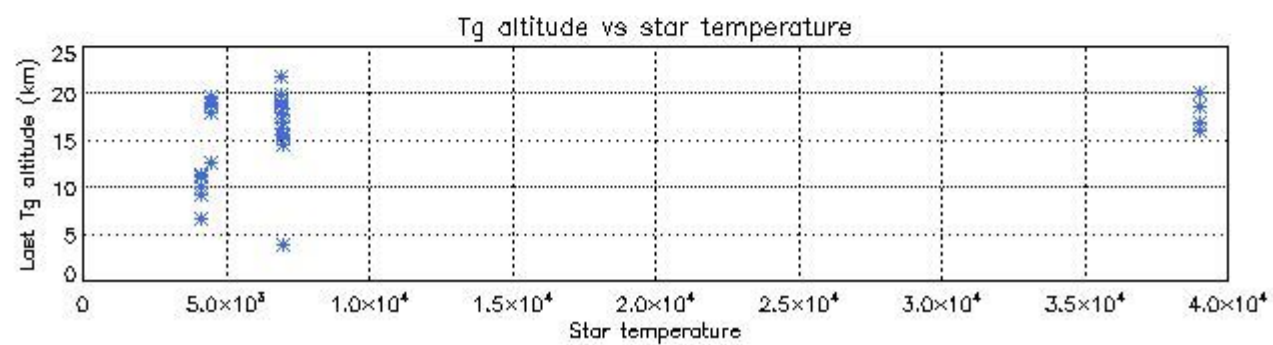
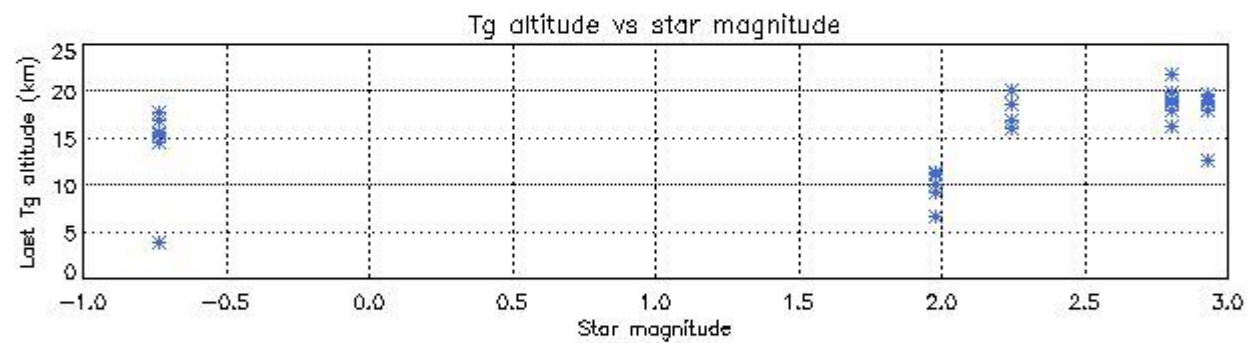
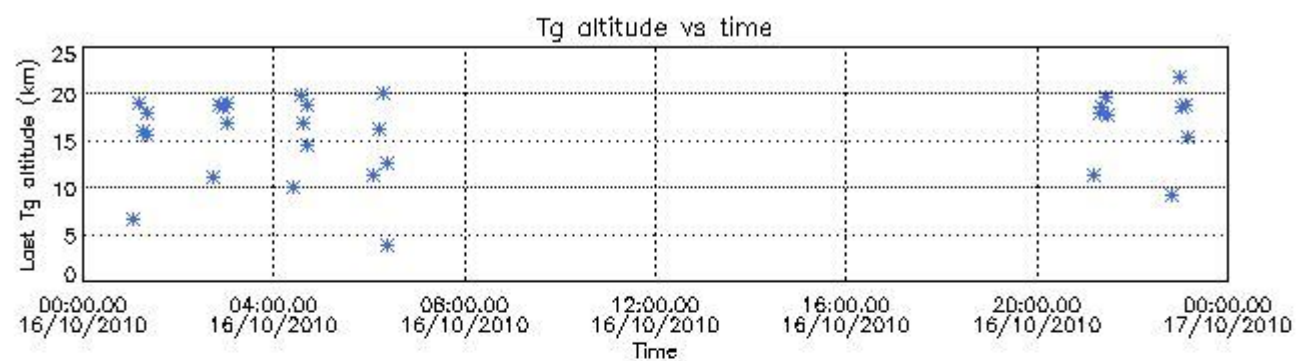
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.766	20.174	NaN
St. deviation:	4.3381	4.7866	NaN
Maximum:	21.784	28.494	NaN
Minimum:	3.9158	3.4217	NaN
Number of data:	30.000	59.000	NaN

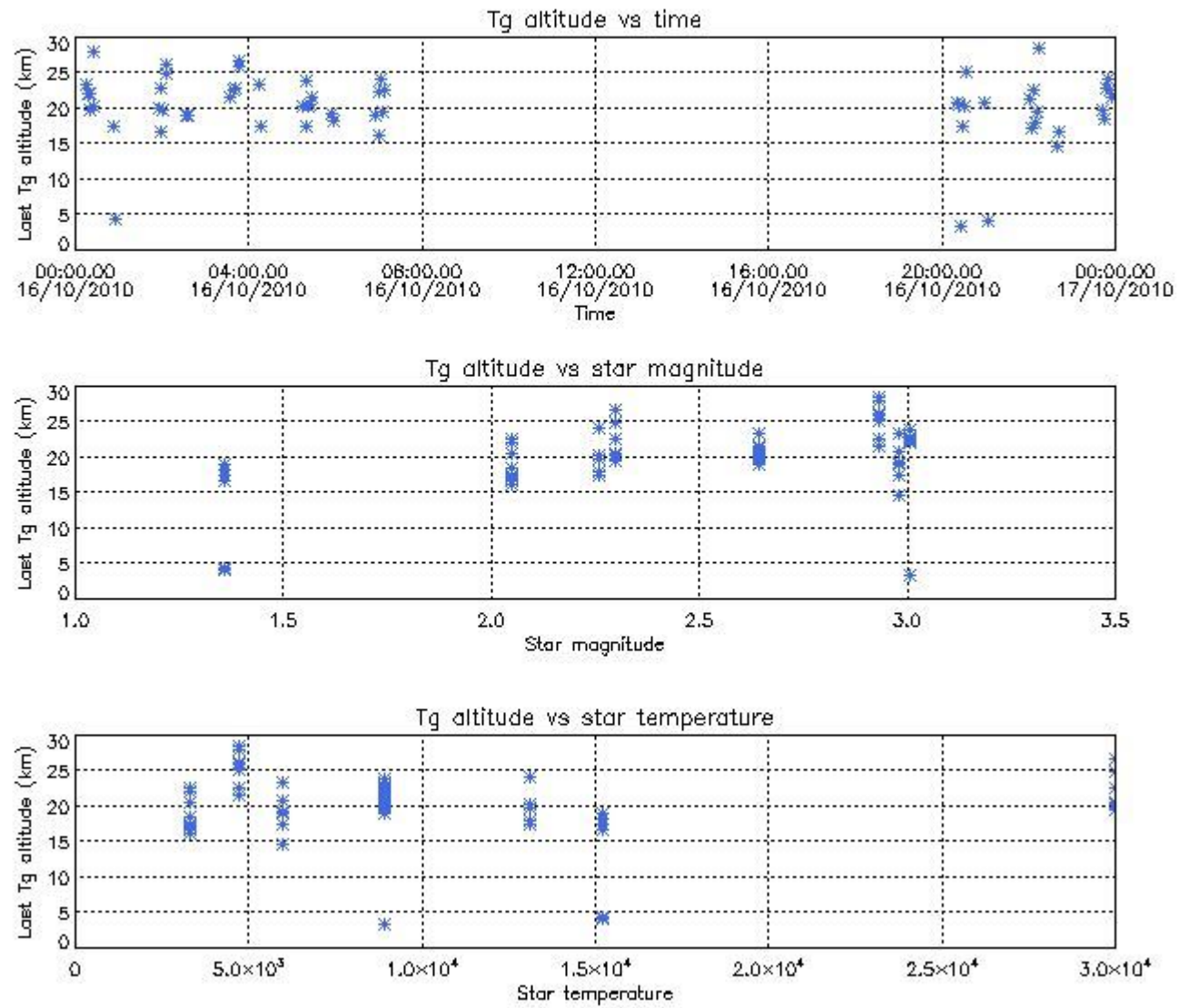
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

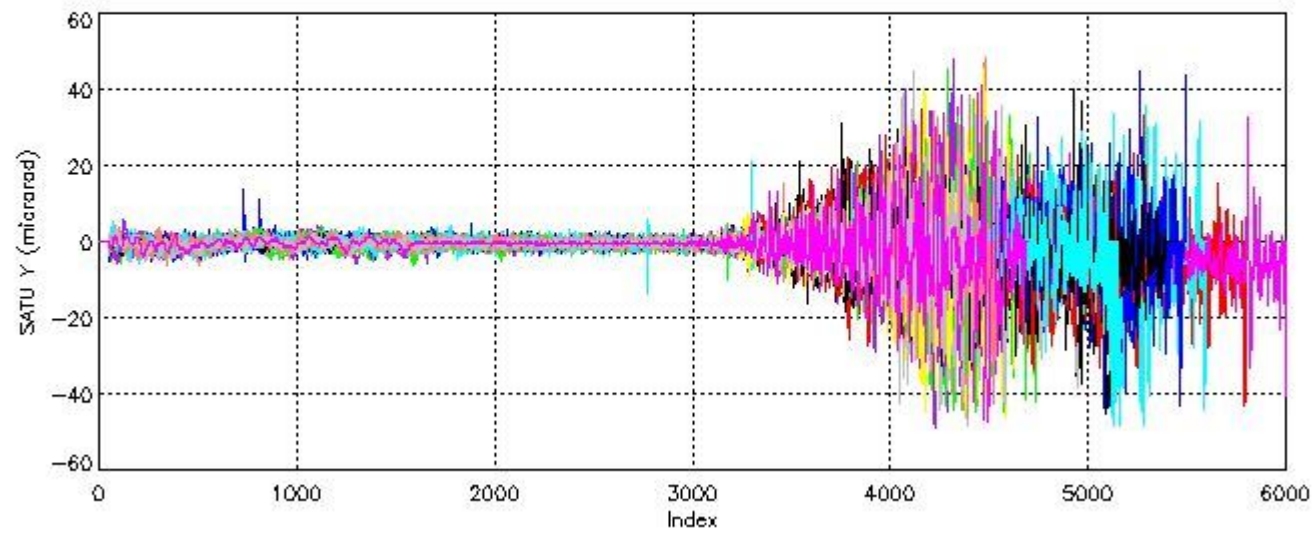
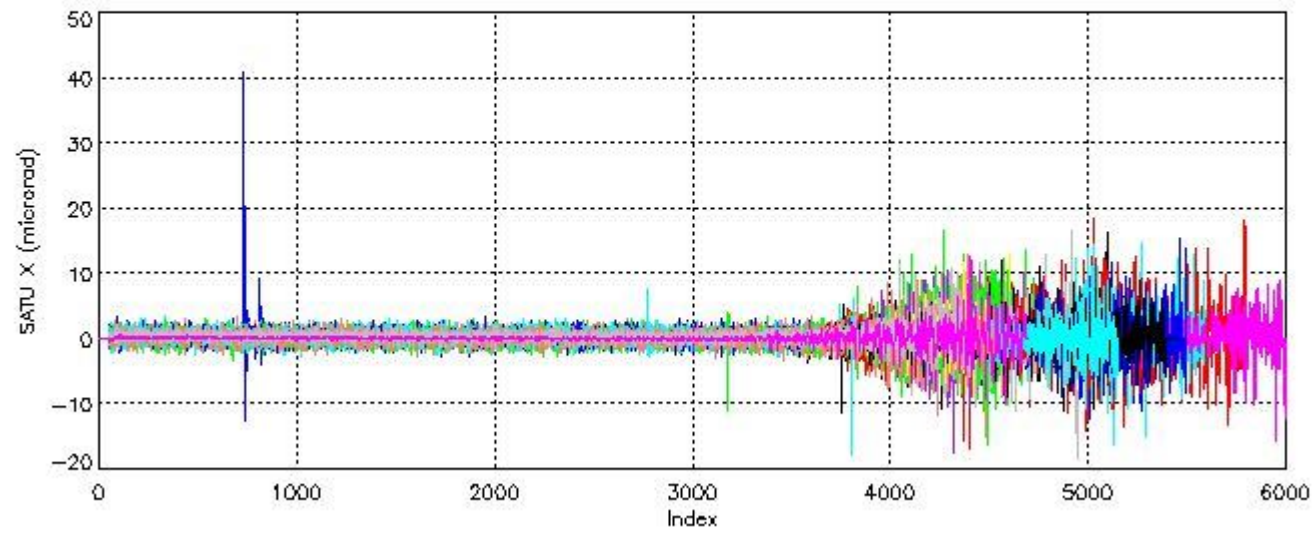


7. Star Acquisition and Tracking Unit (SATU)

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:	0.19302	-0.55473	0.22201	-0.53763
St. deviation:	0.53167	1.1853	0.79409	1.4297
Maximum:	40.900	13.600	5.8000	7.1000
Minimum:	-12.700	-6.3000	-6.4000	-9.2000

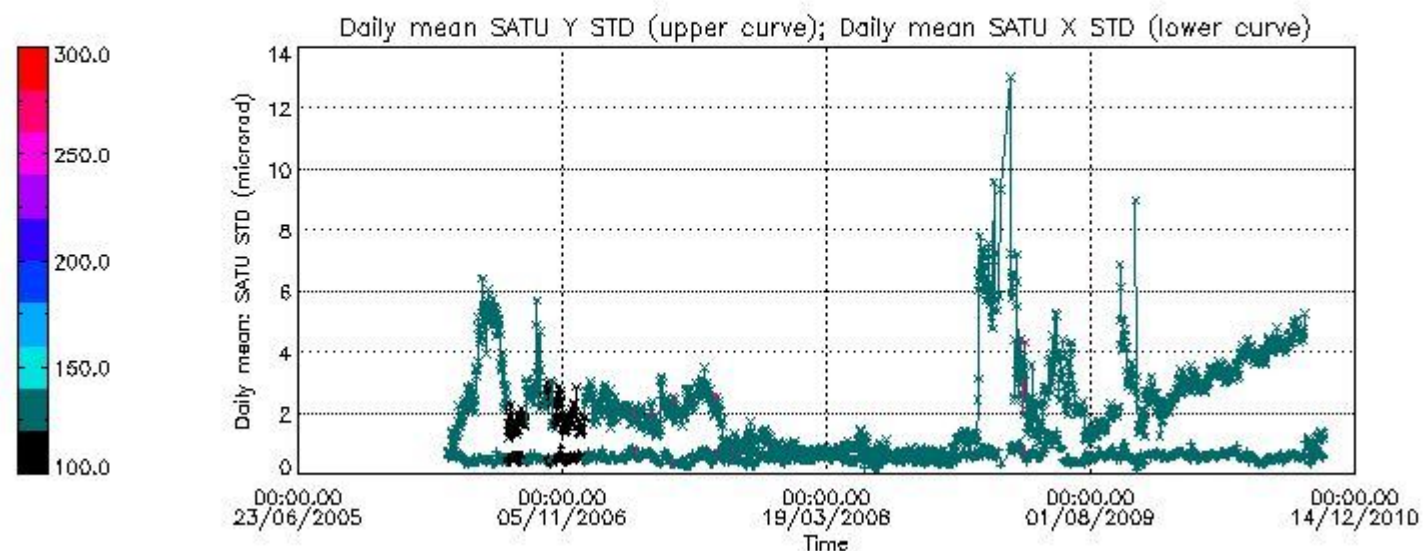
Number of data:	31350.	31350.	62300.	62300.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

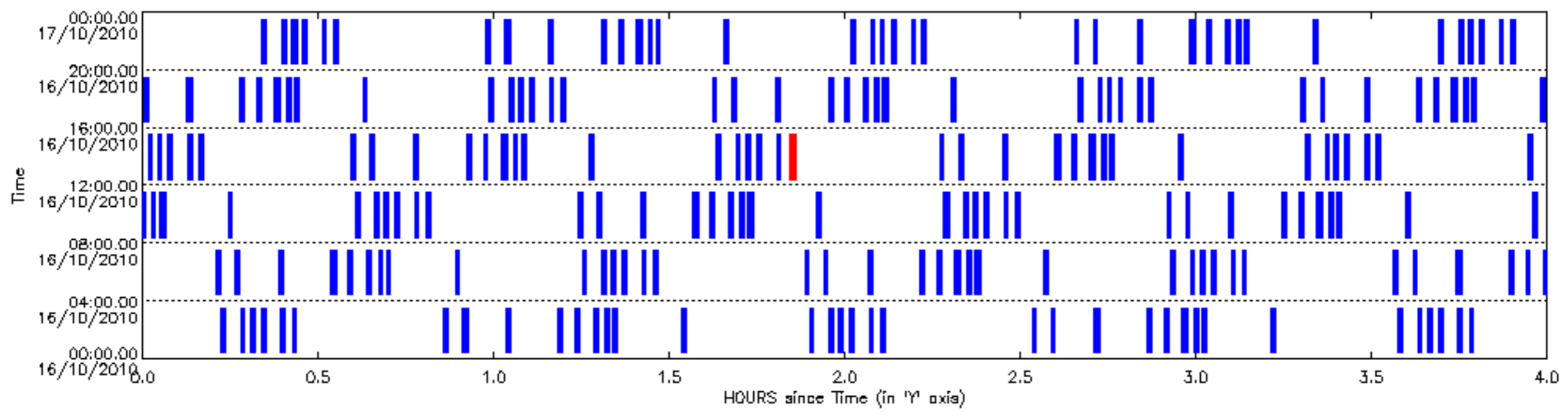
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

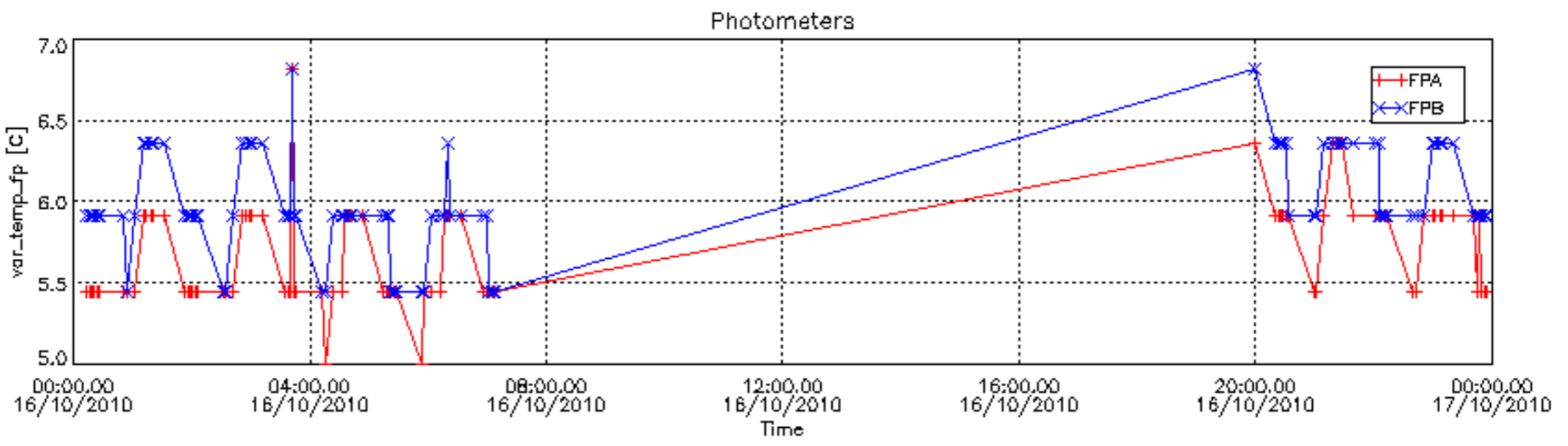
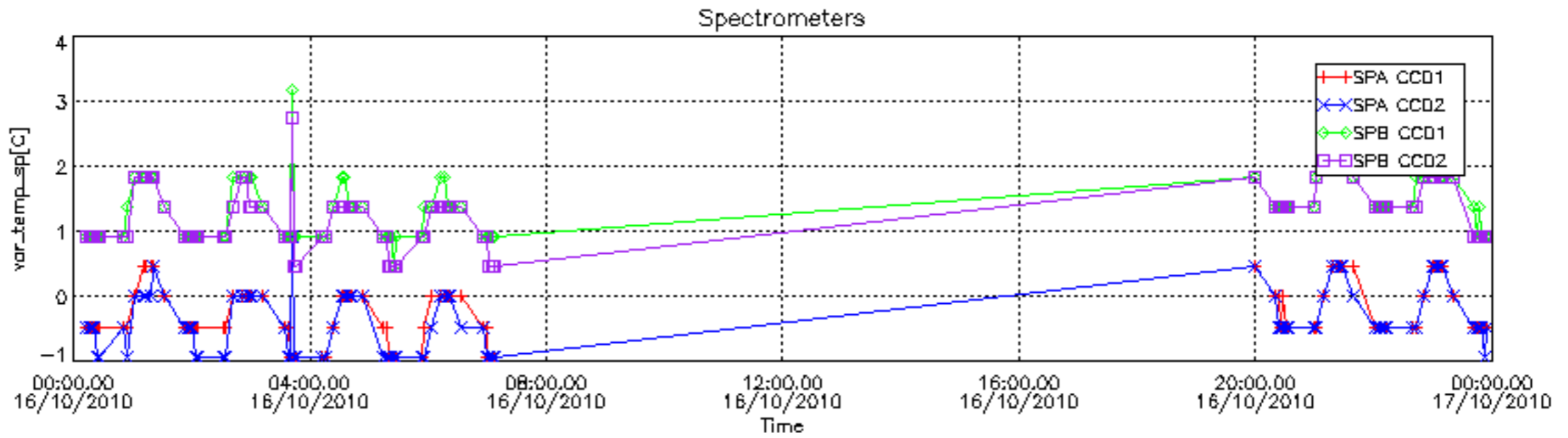


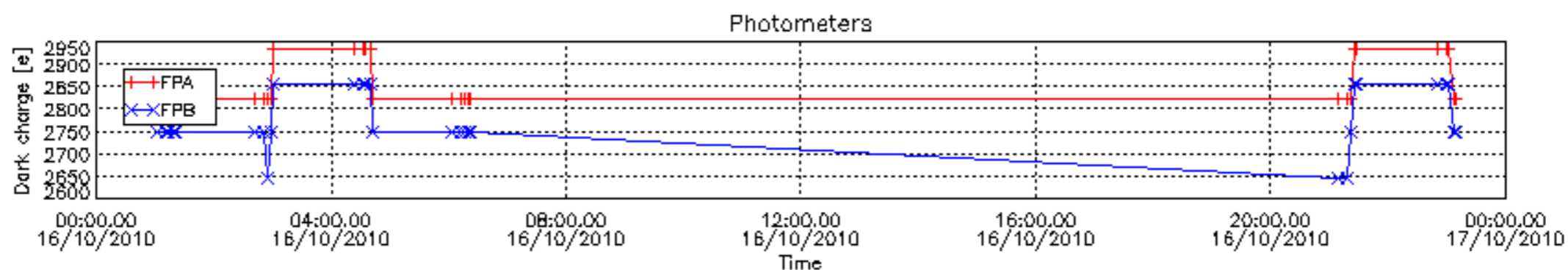
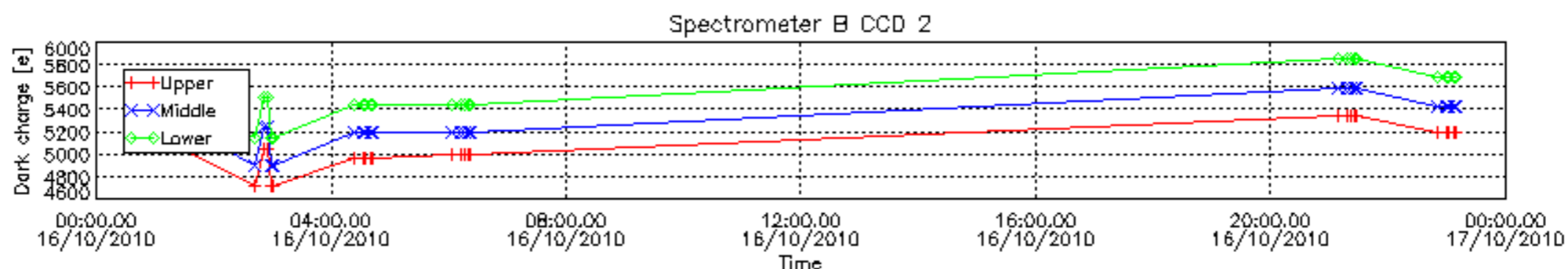
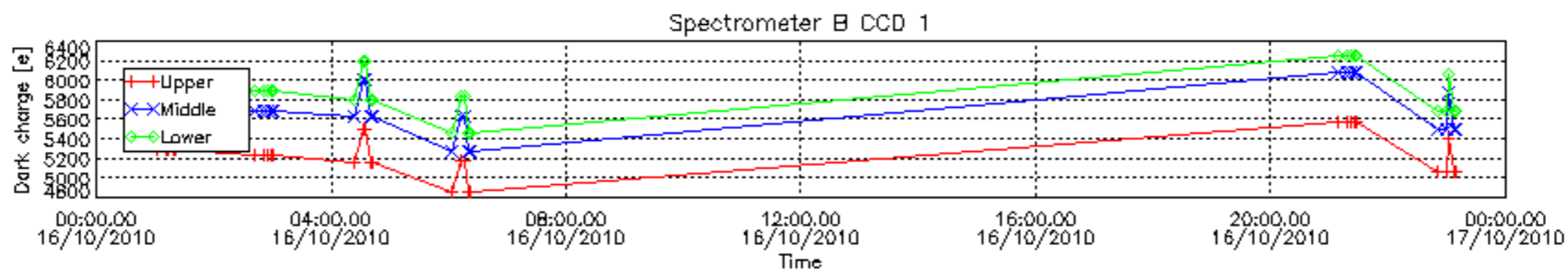
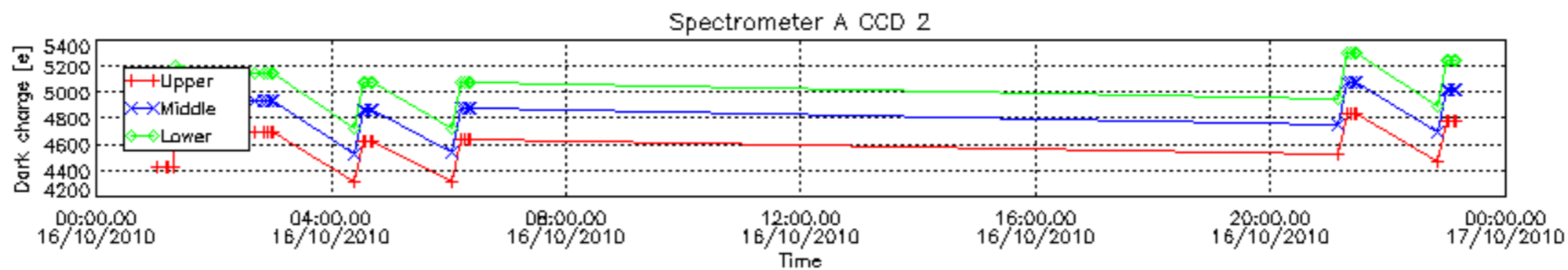
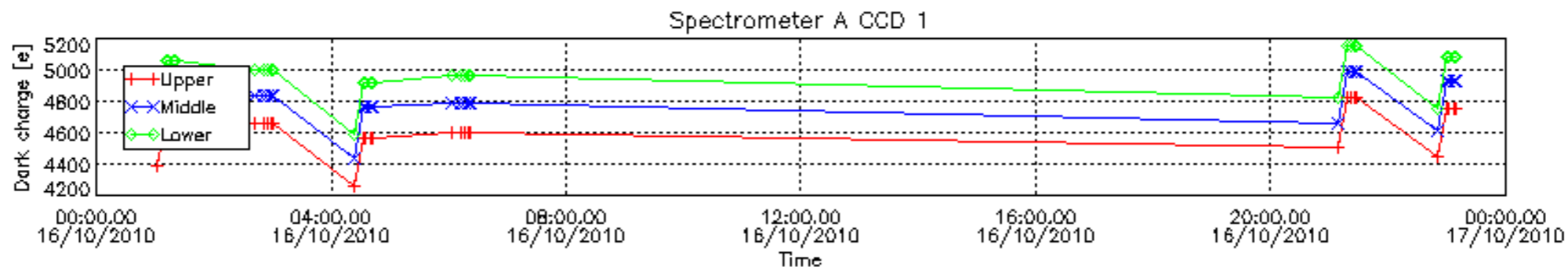
8. Auxiliary Data Files used for the production reported in section 2.4

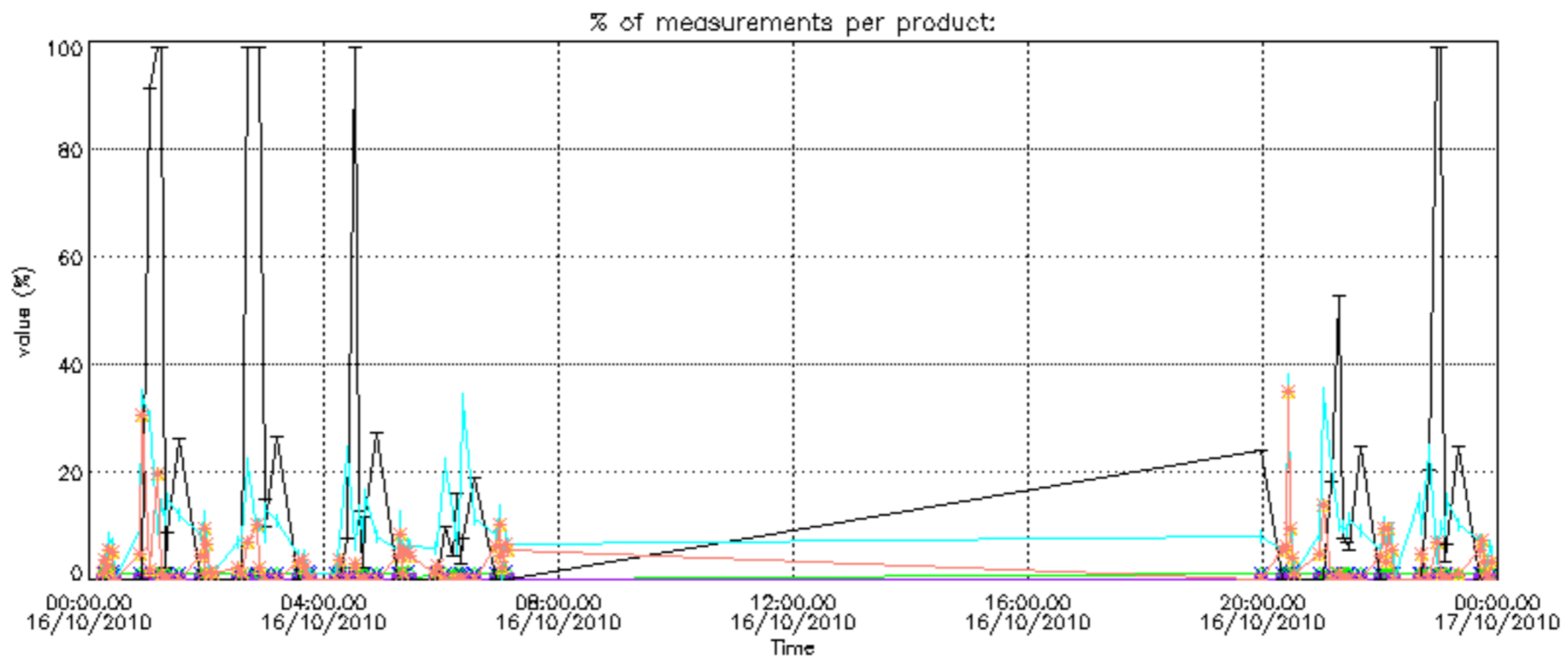
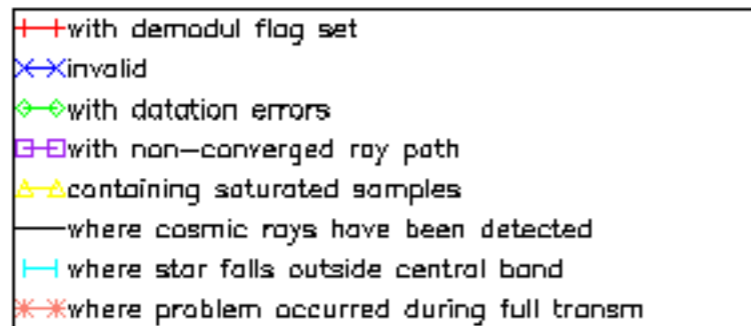
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	16-OCT-2010 00:13:17
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20101011_092457_20101009_000000_20500101_000000	1	16-OCT-2010 00:13:17
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	16-OCT-2010 00:13:17
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	16-OCT-2010 00:13:17
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	16-OCT-2010 00:13:17
ECMWF_FILE	AUX_ECF_AXNECM20101015_053357_20101015_210000_20101016_090000	1	16-OCT-2010 00:13:17
ECMWF_FILE	AUX_ECF_AXNECM20101015_171357_20101016_030000_20101016_150000	32	16-OCT-2010 03:41:22
ECMWF_FILE	AUX_ECA_AXNECM20101016_054114_20101015_210000_20101016_090000	49	16-OCT-2010 05:53:09
ECMWF_FILE	AUX_ECF_AXNECM20101016_054115_20101016_150000_20101017_030000	63	16-OCT-2010 19:58:47
ECMWF_FILE	AUX_ECF_AXNECM20101016_054115_20101016_210000_20101017_090000	71	16-OCT-2010 21:01:51
OPTIONAL_ECMWF_FILE	MISSING	1	16-OCT-2010 00:13:17
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101015_231741_000057382093_00459_45102_1754.N1	1	16-OCT-2010 00:13:17
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101016_005838_000092452093_00460_45103_1755.N1	9	16-OCT-2010 01:02:00
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101016_033801_000066952093_00462_45105_1756.N1	32	16-OCT-2010 03:41:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101016_053455_000057382093_00463_45106_1759.N1	49	16-OCT-2010 05:53:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101016_195538_000035072093_00472_45115_1760.N1	63	16-OCT-2010 19:58:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101016_205924_000060572093_00472_45115_1761.N1	71	16-OCT-2010 21:01:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101016_224540_000057382093_00473_45116_1762.N1	86	16-OCT-2010 22:49:56

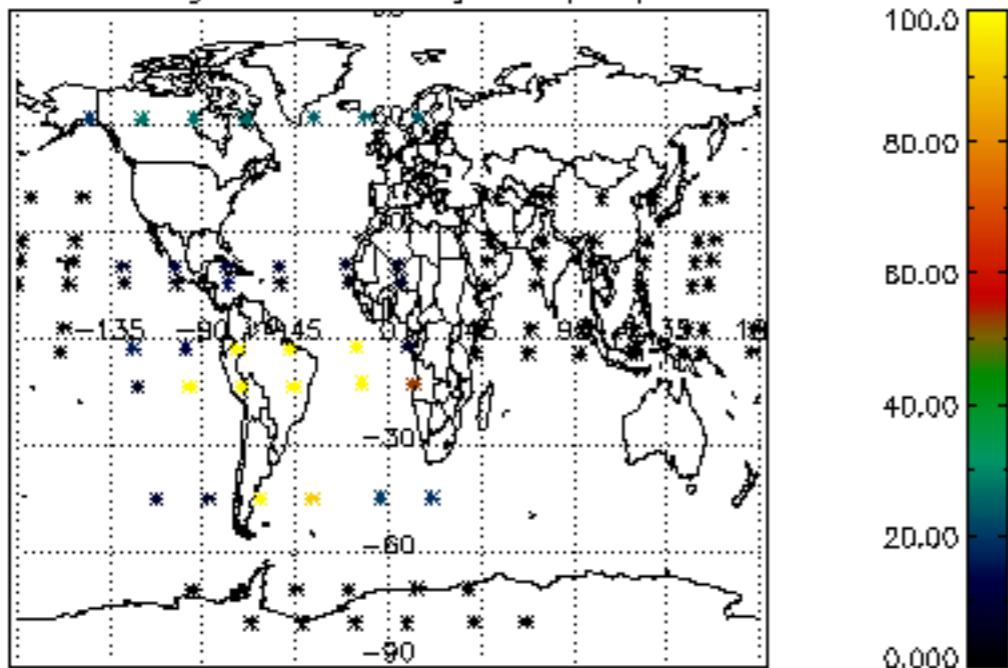




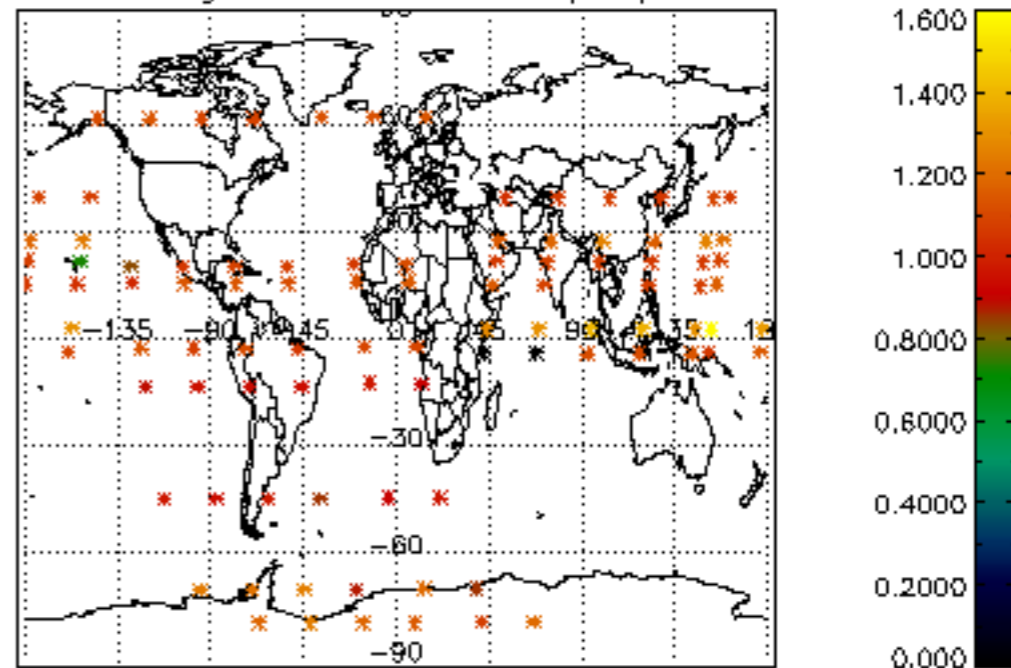




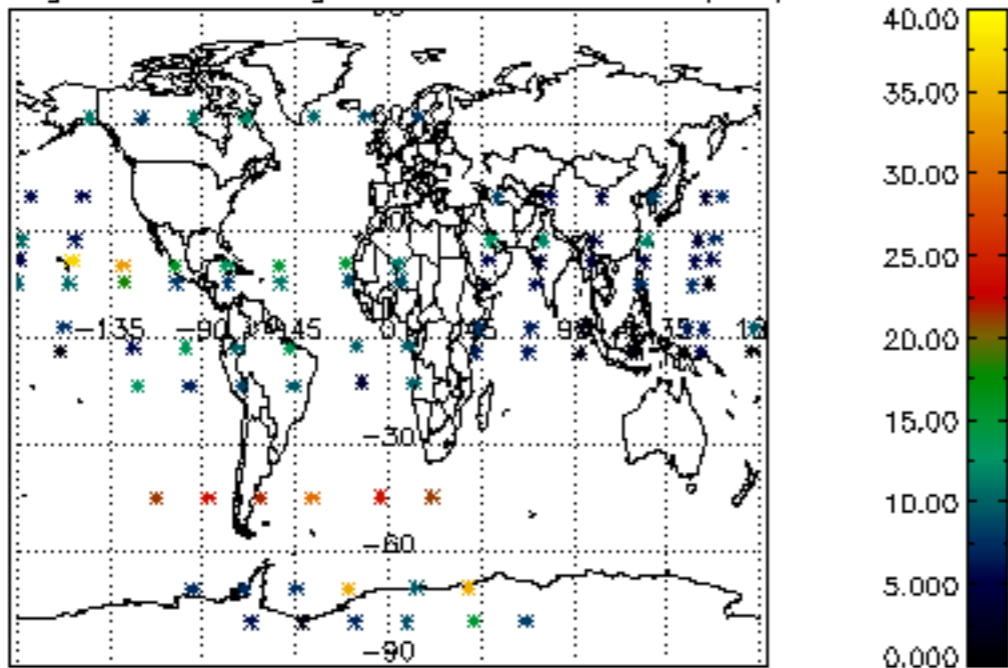
Percentage of cosmic ray hits per profile



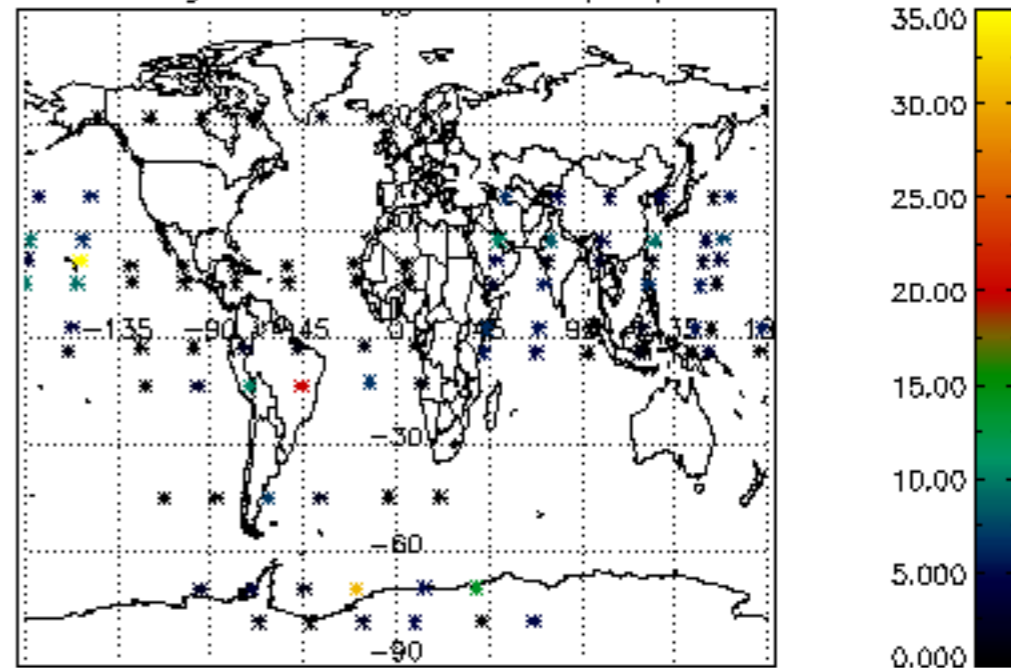
Percentage of datation errors per profile



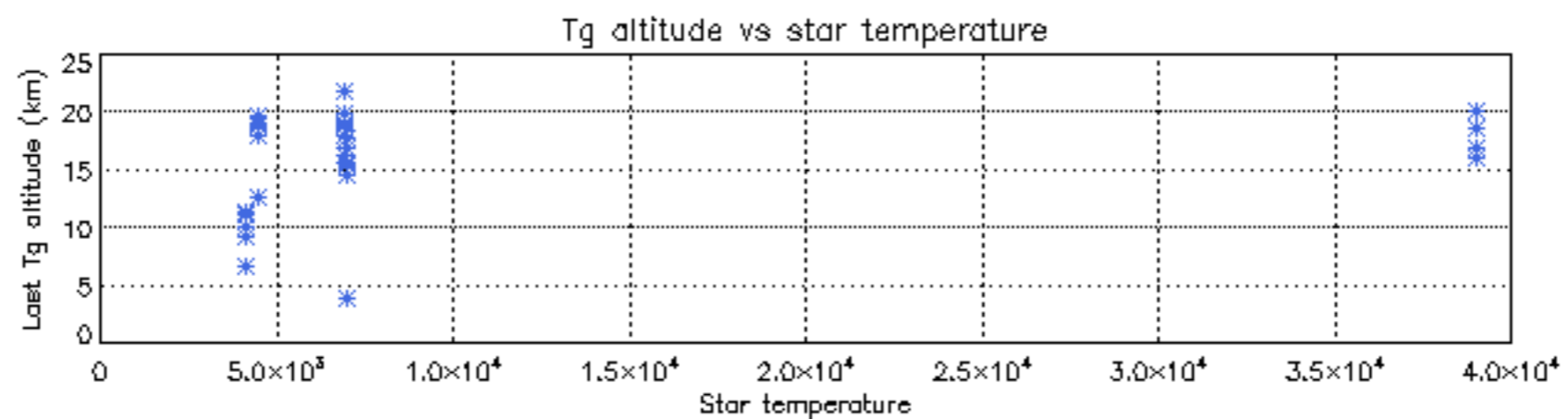
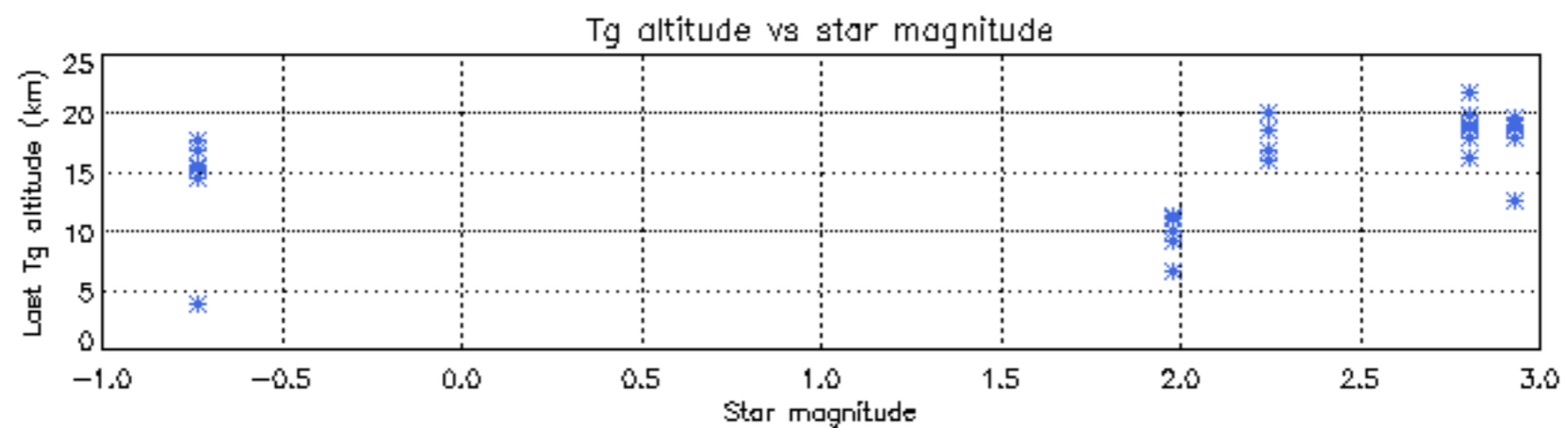
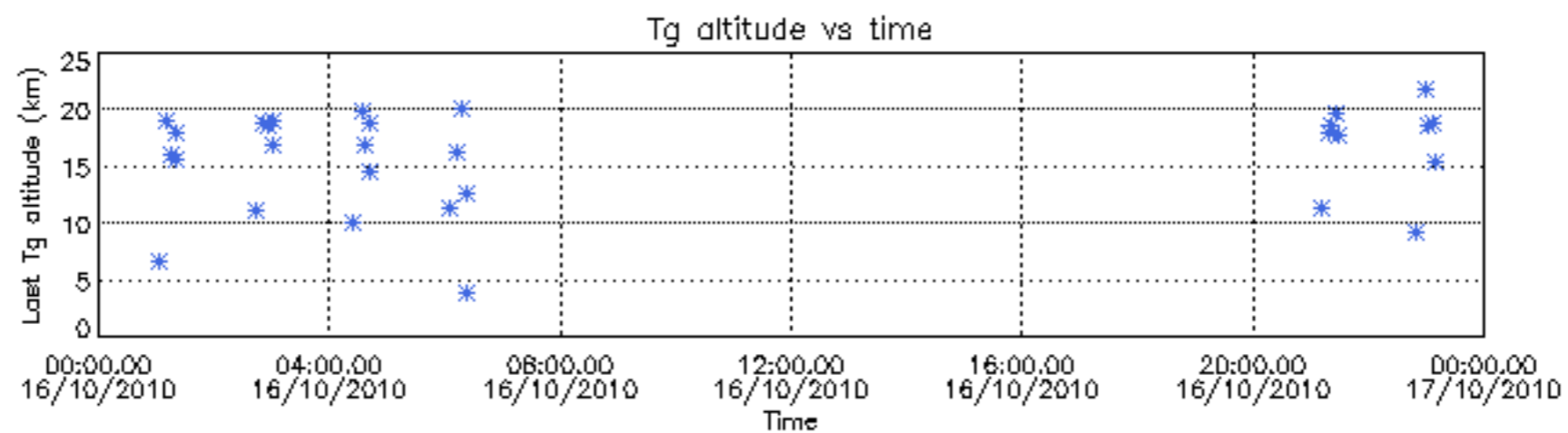
Percentage of star falling outside central band per profile



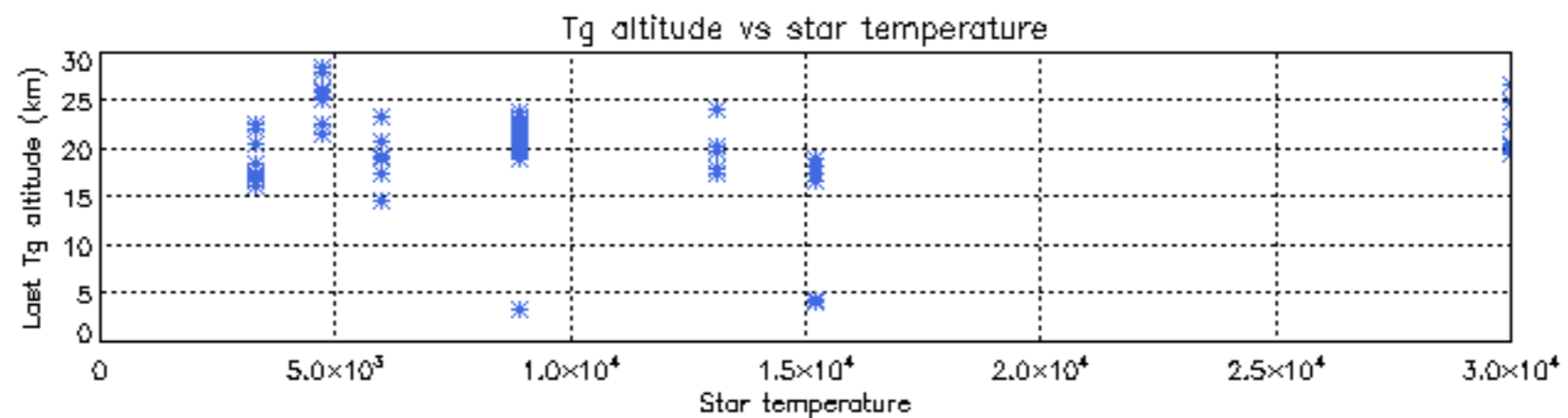
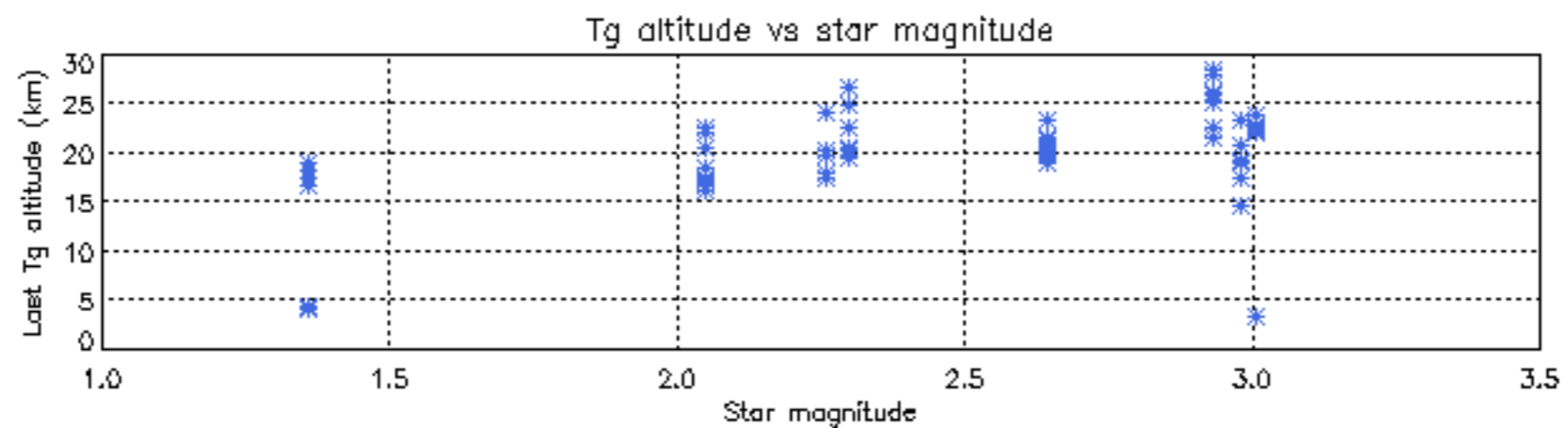
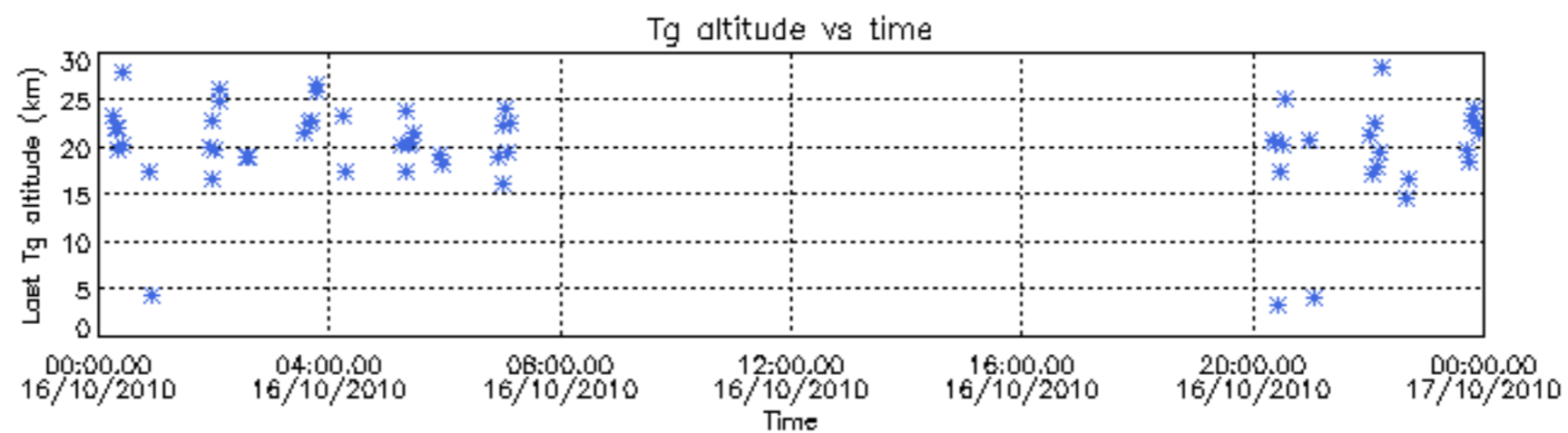
Percentage of saturation errors per profile

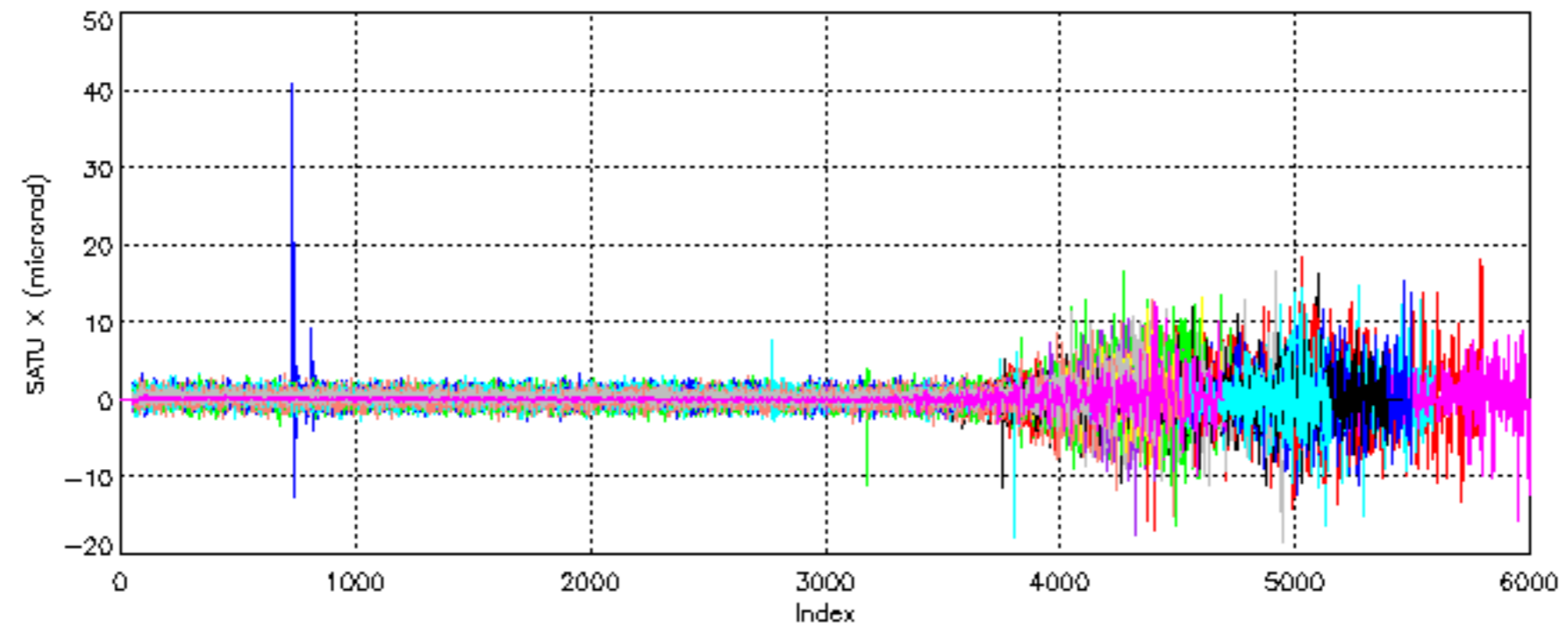


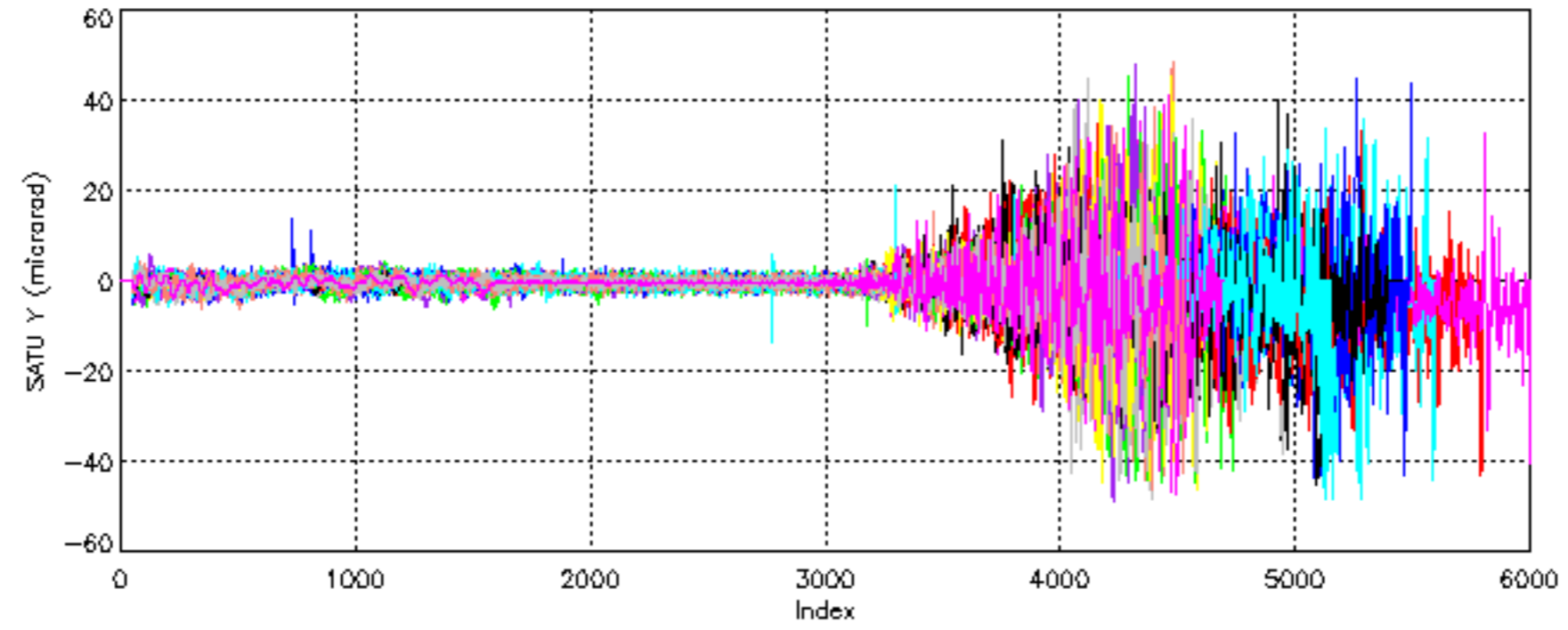
Tangent altitude at which the star is lost

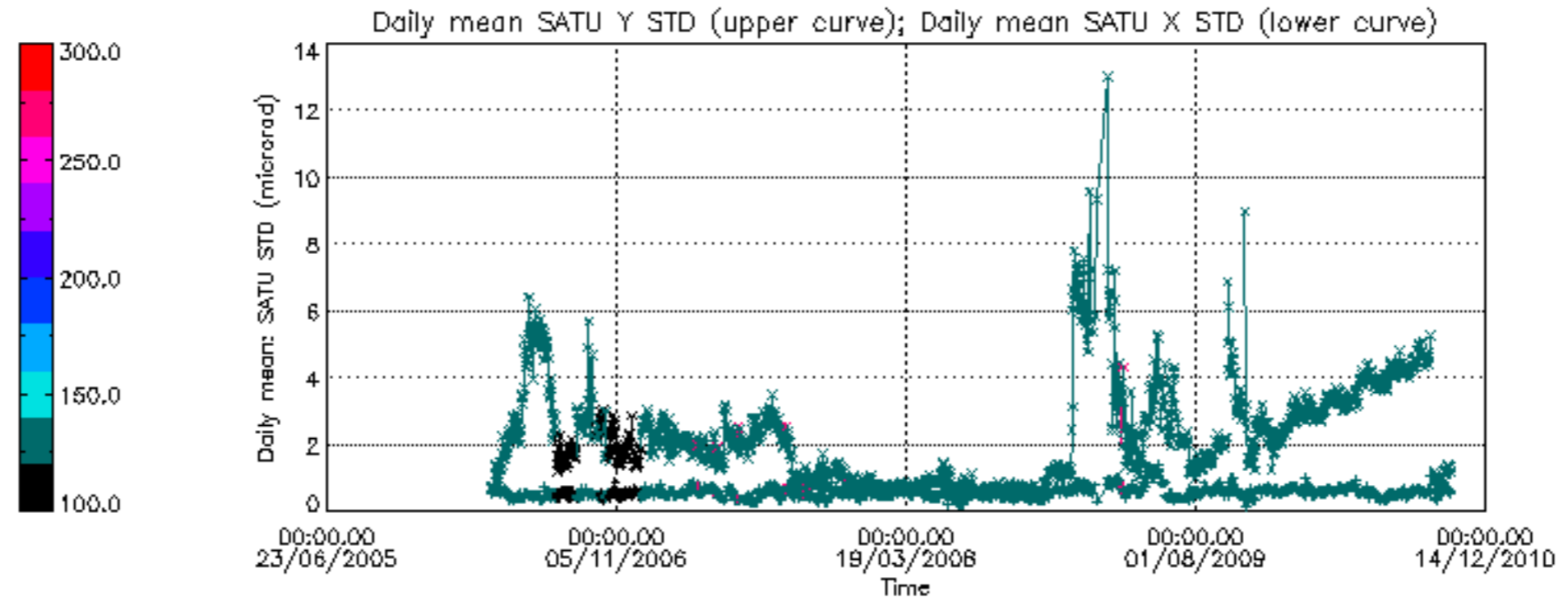


Tangent altitude at which the star is lost









/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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 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
 15; 3031.7; 01-OCT-2010 06:38:20; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 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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2; 2434.7; 01-OCT-2010 08:08:59; Bright; 51.0; 58; 21Alp And ; 2.07; 11000;occ; 79; 0;44893
3; 2659.8; 01-OCT-2010 08:12:44; Bright; 39.5; 53; 43Bet And ; 2.05; 3300;occ; 102; 0;44893
4; 2950.9; 01-OCT-2010 08:17:36; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;44893
5; 3031.4; 01-OCT-2010 08:18:56; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;44893
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
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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
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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
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11; 6345.7; 01-OCT-2010 10:54:46; Dark ; 59.0; 108; Alp Col ; 2.65; 15200;occ; 118; 0;44895
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
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11; 2948.6; 01-OCT-2010 23:22:56; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 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
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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
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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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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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4; 2657.0; 01-OCT-2010 14:55:05; Bright; 51.0; 53; 43Bet And ; 2.05; 3300;occ; 102; 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
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5; 2946.4; 02-OCT-2010 14:28:17; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;44911
6; 3024.6; 02-OCT-2010 14:29:36; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44911
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7; 4606.9; 02-OCT-2010 16:36:34; Bright; 37.0; 17; 78Bet Gem ; 1.16; 4500;occ; 74; 0;44912
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3; 2428.9; 02-OCT-2010 17:40:52; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44913

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 4; 2428.9; 02-OCT-2010 19:21:28; Bright; 41.0; 58; 21Alp And ; 2.07; 11000;occ; 82; 0;44914
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 6; 2945.7; 02-OCT-2010 19:30:05; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;44914
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 9; 5605.3; 02-OCT-2010 20:14:24; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;44914
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 9; 2180.1; 03-OCT-2010 01:59:43; Bright; 40.0; 140; 88Gam Peg ; 2.83; 26000;occ; 80; 0;44918
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 3; 2694.0; 12-OCT-2010 09:07:53; Bright; 49.5; 173; 4Bet Tri ; 3.00; 8900;occ; 99; 0;45051
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 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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11; 2674.3; 14-OCT-2010 01:21:55; Bright; 48.5; 173; 4Bet Tri ; 3.00; 8900;occ; 97; 0;45075
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 5; 109.4; 14-OCT-2010 05:40:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45078
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 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
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8; 4633.3; 15-OCT-2010 19:49:32; Bright; 41.5; 166; 17Eps Leo ; 2.98; 6000;occ; 83; 0;45100
9; 4829.0; 15-OCT-2010 19:52:48; Bright; 39.5; 22; 32Alp Leo ; 1.36; 15200;occ; 79; 0;45100
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5; 48.1; 20-OCT-2010 07:32:01; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;45165
6; 187.5; 20-OCT-2010 07:34:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45165
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3; 2729.0; 20-OCT-2010 08:16:42; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;45165
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6; 188.4; 20-OCT-2010 09:14:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45166
7; 388.3; 20-OCT-2010 09:18:17; Dark ; 47.5; 2; Alp Car ;-0.74; 7000;occ; 95; 0;45166
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4; 2969.8; 20-OCT-2010 10:01:18; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;45166
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8; 5895.1; 20-OCT-2010 10:50:04; Dark ; 58.5; 132; 15Rho Pup ; 2.80; 6900;occ; 117; 0;45166
9; 6085.6; 20-OCT-2010 10:53:14; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;45166
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3; 2728.1; 20-OCT-2010 11:37:53; Bright; 46.0; 73; 57Gam1And ; 2.26; 13100;occ; 92; 0;45167
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5; 4651.7; 20-OCT-2010 15:31:08; Bright; 45.0; 166; 17Eps Leo ; 2.98; 6000;occ; 90; 0;45169
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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
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 7; 2531.8; 22-OCT-2010 00:27:46; Bright; 39.5; 53; 43Bet And ; 2.05; 3300;occ; 79; 0;45189
 8; 2717.1; 22-OCT-2010 00:30:52; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;45189
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