

GOMOS Daily Report 04-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	06OCT2010 04:34:02
Data source version	GOMOS/5.01
Start time of products	04OCT2010 00:00:11
Stop time of products	04OCT2010 23:56:10
Store outputs in DB	Yes
Nb of level 1b prods	84
Nb of prods with errors	1

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

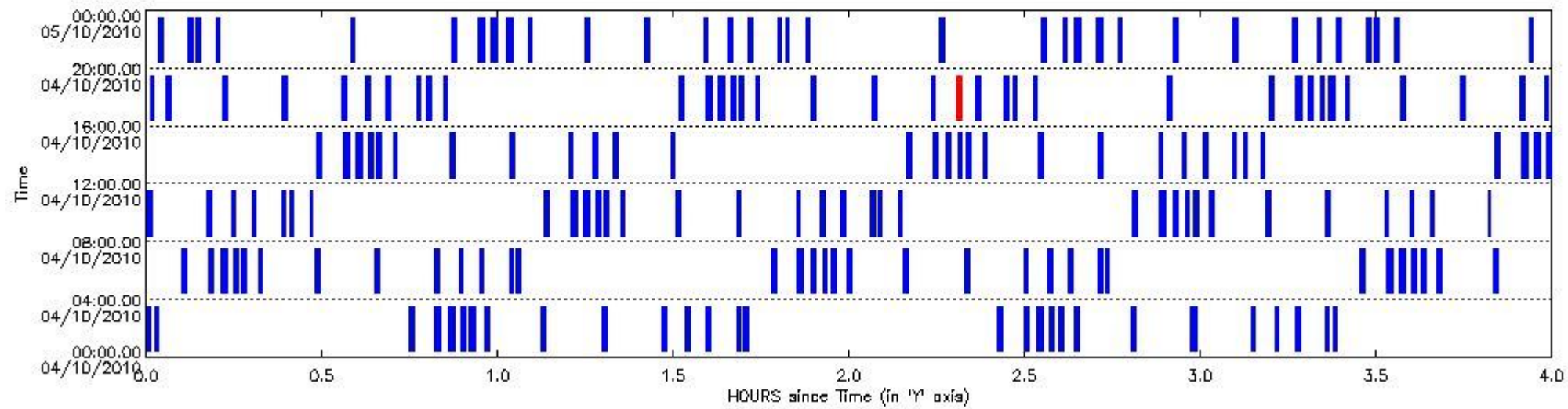
2.1 Level 0 products arrived in PCF (see template [here](#))

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
04-OCT-2010 18:18:19	21AlpAnd	58	44942

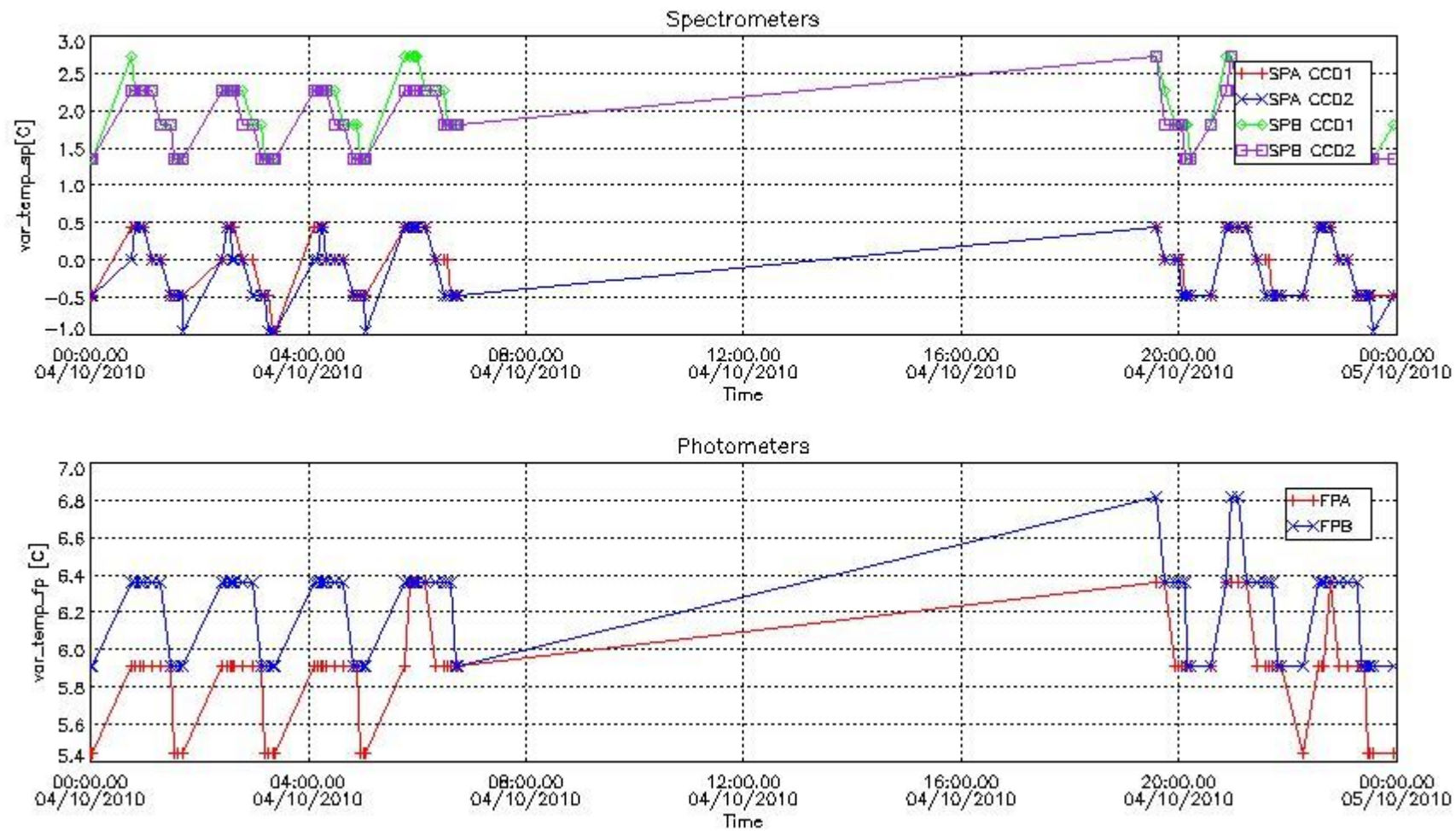
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20101004_000011_000000382093_00288_44931_8615.N1	04-OCT-2010 00:00:11	Bright	38.000	74	11Bet Cas	2.2680	6600.0	76	44931	No
2	GOM_TRA_1PNPDE20101004_000126_000000382093_00288_44931_8616.N1	04-OCT-2010 00:01:26	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	44931	No
3	GOM_TRA_1PNPDE20101004_004450_000000492093_00288_44931_8638.N1	04-OCT-2010 00:44:50	Dark	48.500	132	15Rho Pup	2.8030	6900.0	97	44931	No
4	GOM_TRA_1PNPDE20101004_004917_000000652093_00288_44931_8639.N1	04-OCT-2010 00:49:17	Dark	65.000	37	25Del CMa	1.8300	5900.0	130	44931	No
5	GOM_TRA_1PNPDE20101004_005342_000000432093_00289_44932_8640.N1	04-OCT-2010 00:53:42	Dark	43.000	161	Tau Pup	2.9310	4500.0	86	44932	No
6	GOM_TRA_1PNPDE20101004_005506_000000562093_00289_44932_8641.N1	04-OCT-2010 00:55:06	Dark	56.000	2	Alp Car	-0.73600	7000.0	112	44932	No
7	GOM_TRA_1PNPDE20101004_005751_000000452093_00289_44932_8642.N1	04-OCT-2010 00:57:51	Dark	45.000	108	Alp Col	2.6520	15200.	90	44932	No
8	GOM_TRA_1PNPDE20101004_010729_000000472093_00289_44932_8643.N1	04-OCT-2010 01:07:29	Straylight	46.500	157	The1Eri	2.9060	9300.0	93	44932	No
9	GOM_TRA_1PNPDE20101004_011748_000000472093_00289_44932_8644.N1	04-OCT-2010 01:17:48	Straylight	46.500	52	16Bet Cet	2.0370	4500.0	93	44932	No
10	GOM_TRA_1PNPDE20101004_012803_000000402093_00289_44932_8645.N1	04-OCT-2010 01:28:03	Bright	39.500	140	88Gam Peg	2.8340	26000.	79	44932	No

11	GOM_TRA_1PNPDE20101004_013210_000000382093_00289_44932_8646.N1	04-OCT-2010 01:32:10	Bright	38.000	58	21Alp And	2.0730	11000.	76	44932	No
12	GOM_TRA_1PNPDE20101004_013539_000000472093_00289_44932_8647.N1	04-OCT-2010 01:35:39	Bright	47.000	53	43Bet And	2.0480	3300.0	94	44932	No
13	GOM_TRA_1PNPDE20101004_014047_000000392093_00289_44932_8648.N1	04-OCT-2010 01:40:47	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	44932	No
14	GOM_TRA_1PNPDE20101004_014202_000000372093_00289_44932_8649.N1	04-OCT-2010 01:42:02	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	44932	No
15	GOM_TRA_1PNPDE20101004_022526_000000462093_00289_44932_8656.N1	04-OCT-2010 02:25:26	Dark	45.500	132	15Rho Pup	2.8030	6900.0	91	44932	No
16	GOM_TRA_1PNPDE20101004_022954_000000572093_00289_44932_8657.N1	04-OCT-2010 02:29:54	Dark	57.000	37	25Del CMa	1.8300	5900.0	114	44932	No
17	GOM_TRA_1PNPDE20101004_023419_000000412093_00290_44933_8658.N1	04-OCT-2010 02:34:19	Dark	41.000	161	Tau Pup	2.9310	4500.0	82	44933	No
18	GOM_TRA_1PNPDE20101004_023543_000000462093_00290_44933_8659.N1	04-OCT-2010 02:35:43	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	44933	No
19	GOM_TRA_1PNPDE20101004_023829_000000452093_00290_44933_8660.N1	04-OCT-2010 02:38:29	Dark	45.000	108	Alp Col	2.6520	15200.	90	44933	No
20	GOM_TRA_1PNPDE20101004_024805_000000502093_00290_44933_8661.N1	04-OCT-2010 02:48:05	Straylight	49.500	157	The1Eri	2.9060	9300.0	99	44933	No
21	GOM_TRA_1PNPDE20101004_025824_000000522093_00290_44933_8662.N1	04-OCT-2010 02:58:24	Straylight	52.000	52	16Bet Cet	2.0370	4500.0	104	44933	No
22	GOM_TRA_1PNPDE20101004_030839_000000402093_00290_44933_8663.N1	04-OCT-2010 03:08:39	Bright	39.500	140	88Gam Peg	2.8340	26000.	79	44933	No
23	GOM_TRA_1PNPDE20101004_031246_000000392093_00290_44933_8664.N1	04-OCT-2010 03:12:46	Bright	38.500	58	21Alp And	2.0730	11000.	77	44933	No
24	GOM_TRA_1PNPDE20101004_031615_000000502093_00290_44933_8665.N1	04-OCT-2010 03:16:15	Bright	49.500	53	43Bet And	2.0480	3300.0	99	44933	No
25	GOM_TRA_1PNPDE20101004_032122_000000392093_00290_44933_8666.N1	04-OCT-2010 03:21:22	Bright	38.500	74	11Bet Cas	2.2680	6600.0	77	44933	No
26	GOM_TRA_1PNPDE20101004_032238_000000392093_00290_44933_8667.N1	04-OCT-2010 03:22:38	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	44933	No
27	GOM_TRA_1PNPDE20101004_040603_000000472093_00290_44933_8681.N1	04-OCT-2010 04:06:03	Dark	47.000	132	15Rho Pup	2.8030	6900.0	94	44933	No
28	GOM_TRA_1PNPDE20101004_041031_000000562093_00290_44933_8682.N1	04-OCT-2010 04:10:31	Dark	55.500	37	25Del CMa	1.8300	5900.0	111	44933	No
29	GOM_TRA_1PNPDE20101004_041455_000000462093_00291_44934_8683.N1	04-OCT-2010 04:14:55	Dark	45.500	161	Tau Pup	2.9310	4500.0	91	44934	No
30	GOM_TRA_1PNPDE20101004_041620_000000472093_00291_44934_8684.N1	04-OCT-2010 04:16:20	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	44934	No
31	GOM_TRA_1PNPDE20101004_041906_000000432093_00291_44934_8685.N1	04-OCT-2010 04:19:06	Dark	43.000	108	Alp Col	2.6520	15200.	86	44934	No
32	GOM_TRA_1PNPDE20101004_042842_000000482093_00291_44934_8686.N1	04-OCT-2010 04:28:42	Straylight	48.000	157	The1Eri	2.9060	9300.0	96	44934	No
33	GOM_TRA_1PNPDE20101004_043900_000000462093_00291_44934_8687.N1	04-OCT-2010 04:39:00	Straylight	45.500	52	16Bet Cet	2.0370	4500.0	91	44934	No
34	GOM_TRA_1PNPDE20101004_044915_000000402093_00291_44934_8688.N1	04-OCT-2010 04:49:15	Bright	40.000	140	88Gam Peg	2.8340	26000.	80	44934	No
35	GOM_TRA_1PNPDE20101004_045321_000000392093_00291_44934_8689.N1	04-OCT-2010 04:53:21	Bright	39.000	58	21Alp And	2.0730	11000.	78	44934	No
36	GOM_TRA_1PNPDE20101004_045650_000000472093_00291_44934_8690.N1	04-OCT-2010 04:56:50	Bright	47.000	53	43Bet And	2.0480	3300.0	94	44934	No
37	GOM_TRA_1PNPDE20101004_050158_000000402093_00291_44934_8691.N1	04-OCT-2010 05:01:58	Bright	39.500	74	11Bet Cas	2.2680	6600.0	79	44934	No
38	GOM_TRA_1PNPDE20101004_050313_000000412093_00291_44934_8692.N1	04-OCT-2010 05:03:13	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	44934	No
39	GOM_TRA_1PNPDE20101004_054640_000000492093_00291_44934_8705.N1	04-OCT-2010 05:46:40	Dark	49.000	132	15Rho Pup	2.8030	6900.0	98	44934	No
40	GOM_TRA_1PNPDE20101004_055109_000000612093_00291_44934_8706.N1	04-OCT-2010 05:51:09	Dark	60.500	37	25Del CMa	1.8300	5900.0	121	44934	No
41	GOM_TRA_1PNPDE20101004_055532_000000422093_00292_44935_8707.N1	04-OCT-2010 05:55:32	Dark	42.000	161	Tau Pup	2.9310	4500.0	84	44935	No
42	GOM_TRA_1PNPDE20101004_055656_000000452093_00292_44935_8708.N1	04-OCT-2010 05:56:56	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	44935	No
43	GOM_TRA_1PNPDE20101004_055944_000000432093_00292_44935_8709.N1	04-OCT-2010 05:59:44	Dark	43.000	108	Alp Col	2.6520	15200.	86	44935	No
44	GOM_TRA_1PNPDE20101004_060919_000000472093_00292_44935_8710.N1	04-OCT-2010 06:09:19	Straylight	46.500	157	The1Eri	2.9060	9300.0	93	44935	No
45	GOM_TRA_1PNPDE20101004_061936_000000482093_00292_44935_8711.N1	04-OCT-2010 06:19:36	Straylight	48.000	52	16Bet Cet	2.0370	4500.0	96	44935	No
46	GOM_TRA_1PNPDE20101004_062950_000000392093_00292_44935_8712.N1	04-OCT-2010 06:29:50	Bright	38.500	140	88Gam Peg	2.8340	26000.	77	44935	No
47	GOM_TRA_1PNPDE20101004_063357_000000392093_00292_44935_8713.N1	04-OCT-2010 06:33:57	Bright	39.000	58	21Alp And	2.0730	11000.	78	44935	No
48	GOM_TRA_1PNPDE20101004_063725_000000462093_00292_44935_8714.N1	04-OCT-2010 06:37:25	Bright	45.500	53	43Bet And	2.0480	3300.0	91	44935	No
49	GOM_TRA_1PNPDE20101004_064234_000000382093_00292_44935_8715.N1	04-OCT-2010 06:42:34	Bright	37.500	74	11Bet Cas	2.2680	6600.0	75	44935	No
50	GOM_TRA_1PNPDE20101004_064349_000000402093_00292_44935_8716.N1	04-OCT-2010 06:43:49	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	44935	No
51	GOM_TRA_1PNPDE20101004_193411_000000492093_00300_44943_8832.N1	04-OCT-2010 19:34:11	Straylight	49.000	157	The1Eri	2.9060	9300.0	98	44943	Yes
52	GOM_TRA_1PNPDE20101004_194425_000000472093_00300_44943_8833.N1	04-OCT-2010 19:44:25	Straylight	46.500	52	16Bet Cet	2.0370	4500.0	93	44943	No
53	GOM_TRA_1PNPDE20101004_195436_000000392093_00300_44943_8834.N1	04-OCT-2010 19:54:36	Bright	39.000	140	88Gam Peg	2.8340	26000.	78	44943	No
54	GOM_TRA_1PNPDE20101004_195842_000000392093_00300_44943_8835.N1	04-OCT-2010 19:58:42	Bright	39.000	58	21Alp And	2.0730	11000.	78	44943	No
55	GOM_TRA_1PNPDE20101004_200208_000000462093_00300_44943_8836.N1	04-OCT-2010 20:02:08	Bright	46.000	53	43Bet And	2.0480	3300.0	92	44943	No
56	GOM_TRA_1PNPDE20101004_200708_000000422093_00300_44943_8837.N1	04-OCT-2010 20:07:08	Bright	42.000	68	18Alp Cas	2.2250	4500.0	84	44943	No
57	GOM_TRA_1PNPDE20101004_200833_000000392093_00300_44943_8838.N1	04-OCT-2010 20:08:33	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	44943	No
58	GOM_TRA_1PNPDE20101004_201202_000000352093_00300_44943_8839.N1	04-OCT-2010 20:12:02	Tw_i_and_stray	35.000	160	23Gam Per	2.9300	4700.0	70	44943	No
59	GOM_TRA_1PNPDE20101004_203458_000000392093_00300_44943_8840.N1	04-OCT-2010 20:34:58	Bright	39.000	166	17Eps Leo	2.9800	6000.0	78	44943	No
60	GOM_TRA_1PNPDE20101004_205212_000000472093_00300_44943_8848.N1	04-OCT-2010 20:52:12	Dark	47.000	132	15Rho Pup	2.8030	6900.0	94	44943	No
61	GOM_TRA_1PNPDE20101004_205644_000000682093_00300_44943_8849.N1	04-OCT-2010 20:56:44	Dark	68.000	37	25Del CMa	1.8300	5900.0	136	44943	No
62	GOM_TRA_1PNPDE20101004_210521_000000342093_00301_44944_8850.N1	04-OCT-2010 21:05:21	Dark	34.000	108	Alp Col	2.6520	15200.	68	44944	No
63	GOM_TRA_1PNPDE20101004_211448_000000512093_00301_44944_8851.N1	04-OCT-2010 21:14:48	Straylight	51.000	157	The1Eri	2.9060	9300.0	102	44944	No
64	GOM_TRA_1PNPDE20101004_212501_000000492093_00301_44944_8852.N1	04-OCT-2010 21:25:01	Straylight	48.500	52	16Bet Cet	2.0370	4500.0	97	44944	No
65	GOM_TRA_1PNPDE20101004_213512_000000392093_00301_44944_8853.N1	04-OCT-2010 21:35:12	Bright	39.000	140	88Gam Peg	2.8340	26000.	78	44944	No
66	GOM_TRA_1PNPDE20101004_213918_000000392093_00301_44944_8854.N1	04-OCT-2010 21:39:18	Bright	39.000	58	21Alp And	2.0730	11000.	78	44944	No
67	GOM_TRA_1PNPDE20101004_214243_000000452093_00301_44944_8855.N1	04-OCT-2010 21:42:43	Bright	45.000	53	43Bet And	2.0480	3300.0	90	44944	No
68	GOM_TRA_1PNPDE20101004_214743_000000412093_00301_44944_8856.N1	04-OCT-2010 21:47:43	Bright	41.000	68	18Alp Cas	2.2250	4500.0	82	44944	No
69	GOM_TRA_1PNPDE20101004_214909_000000382093_00301_44944_8857.N1	04-OCT-2010 21:49:09	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	44944	No

70	GOM_TRA_1PNPDE20101004_215237_000000372093_00301_44944_8858.N1	04-OCT-2010 21:52:37	Twilight_stray	37.000	160	23Gam Per	2.9300	4700.0	74	44944	No
71	GOM_TRA_1PNPDE20101004_221534_000000442093_00301_44944_8859.N1	04-OCT-2010 22:15:34	Bright	43.500	166	17Eps Leo	2.9800	6000.0	87	44944	No
72	GOM_TRA_1PNPDE20101004_223249_000000502093_00301_44944_8871.N1	04-OCT-2010 22:32:49	Dark	50.000	132	15Rho Pup	2.8030	6900.0	100	44944	No
73	GOM_TRA_1PNPDE20101004_223629_000000412093_00301_44944_8872.N1	04-OCT-2010 22:36:29	Dark	40.500	70	Zet Pup	2.2460	39000.	81	44944	No
74	GOM_TRA_1PNPDE20101004_223834_000000572093_00301_44944_8873.N1	04-OCT-2010 22:38:34	Dark	56.500	23	21Eps CMa	1.5020	26000.	113	44944	No
75	GOM_TRA_1PNPDE20101004_224558_000000342093_00302_44945_8874.N1	04-OCT-2010 22:45:58	Dark	34.000	108	Alp Col	2.6520	15200.	68	44945	No
76	GOM_TRA_1PNPDE20101004_225524_000000482093_00302_44945_8875.N1	04-OCT-2010 22:55:24	Straylight	48.000	157	The1Eri	2.9060	9300.0	96	44945	No
77	GOM_TRA_1PNPDE20101004_230537_000000512093_00302_44945_8876.N1	04-OCT-2010 23:05:37	Straylight	50.500	52	16Bet Cet	2.0370	4500.0	101	44945	No
78	GOM_TRA_1PNPDE20101004_231548_000000402093_00302_44945_8877.N1	04-OCT-2010 23:15:48	Bright	39.500	140	88Gam Peg	2.8340	26000.	79	44945	No
79	GOM_TRA_1PNPDE20101004_231954_000000402093_00302_44945_8878.N1	04-OCT-2010 23:19:54	Bright	39.500	58	21Alp And	2.0730	11000.	79	44945	No
80	GOM_TRA_1PNPDE20101004_232318_000000442093_00302_44945_8879.N1	04-OCT-2010 23:23:18	Bright	44.000	53	43Bet And	2.0480	3300.0	88	44945	No
81	GOM_TRA_1PNPDE20101004_232819_000000422093_00302_44945_8880.N1	04-OCT-2010 23:28:19	Bright	41.500	68	18Alp Cas	2.2250	4500.0	83	44945	No
82	GOM_TRA_1PNPDE20101004_232944_000000412093_00302_44945_8881.N1	04-OCT-2010 23:29:44	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	44945	No
83	GOM_TRA_1PNPDE20101004_233312_000000372093_00302_44945_8882.N1	04-OCT-2010 23:33:12	Twilight_stray	37.000	160	23Gam Per	2.9300	4700.0	74	44945	No
84	GOM_TRA_1PNPDE20101004_235610_000000362093_00302_44945_8883.N1	04-OCT-2010 23:56:10	Bright	36.000	166	17Eps Leo	2.9800	6000.0	72	44945	No

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



4. Overview of dark signal processing per product

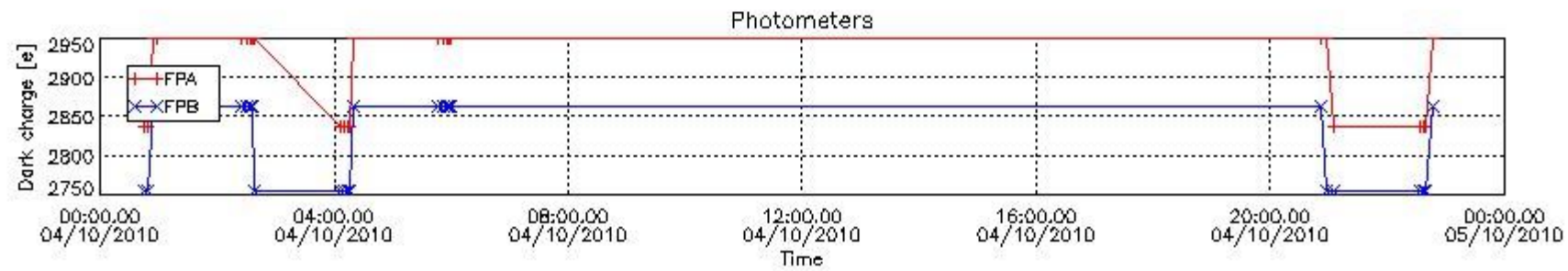
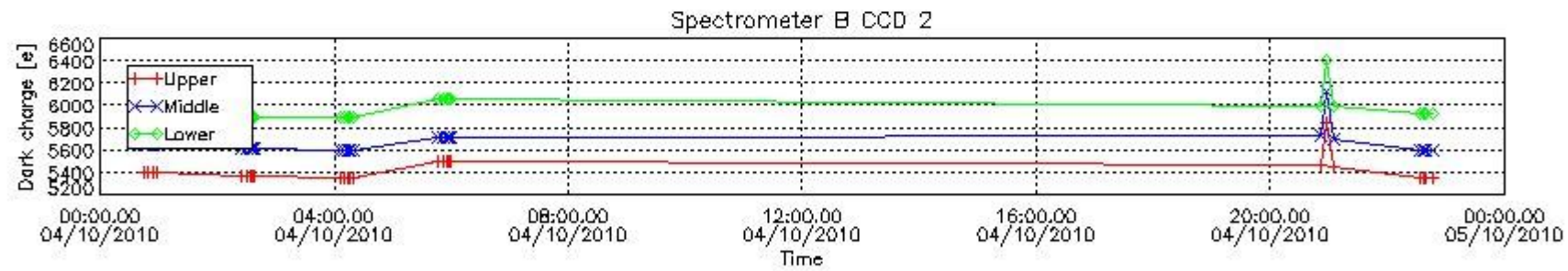
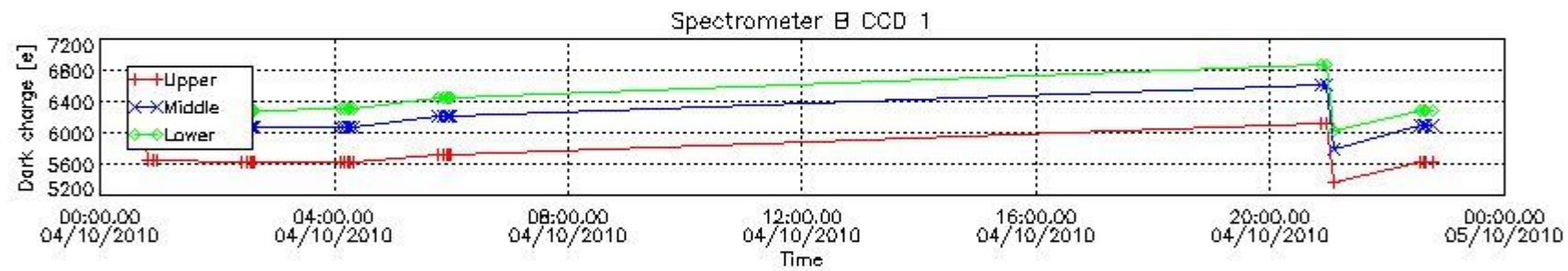
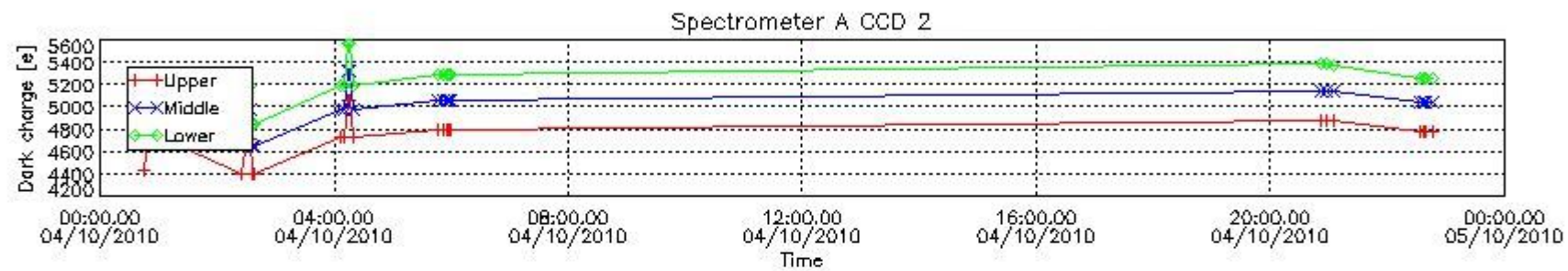
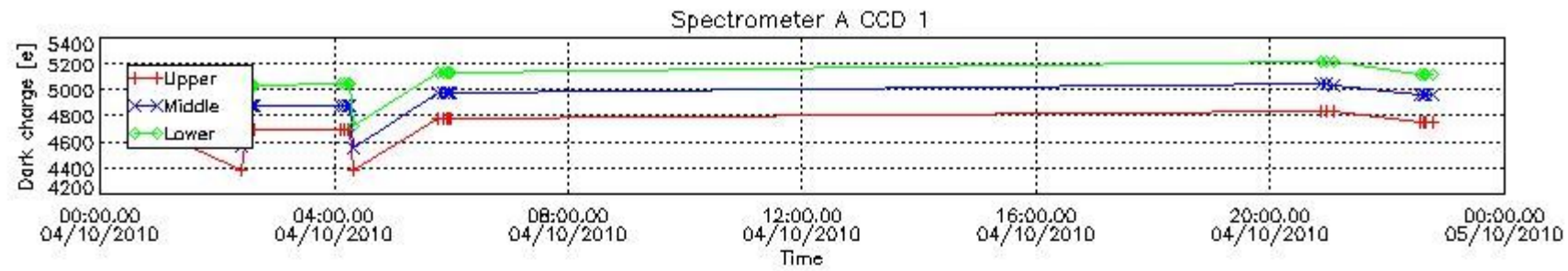
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20101004_193411_000000492093_00300_44943_8832.N1	DC map with no T dep.
GOM_TRA_1PNPDE20101004_194425_000000472093_00300_44943_8833.N1	DC map used
GOM_TRA_1PNPDE20101004_195436_000000392093_00300_44943_8834.N1	DC map used
GOM_TRA_1PNPDE20101004_195842_000000392093_00300_44943_8835.N1	DC map used
GOM_TRA_1PNPDE20101004_200208_000000462093_00300_44943_8836.N1	DC map used
GOM_TRA_1PNPDE20101004_200708_000000422093_00300_44943_8837.N1	DC map used
GOM_TRA_1PNPDE20101004_200833_000000392093_00300_44943_8838.N1	DC map used
GOM_TRA_1PNPDE20101004_201202_000000352093_00300_44943_8839.N1	DC map used
GOM_TRA_1PNPDE20101004_203458_000000392093_00300_44943_8840.N1	DC map used

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



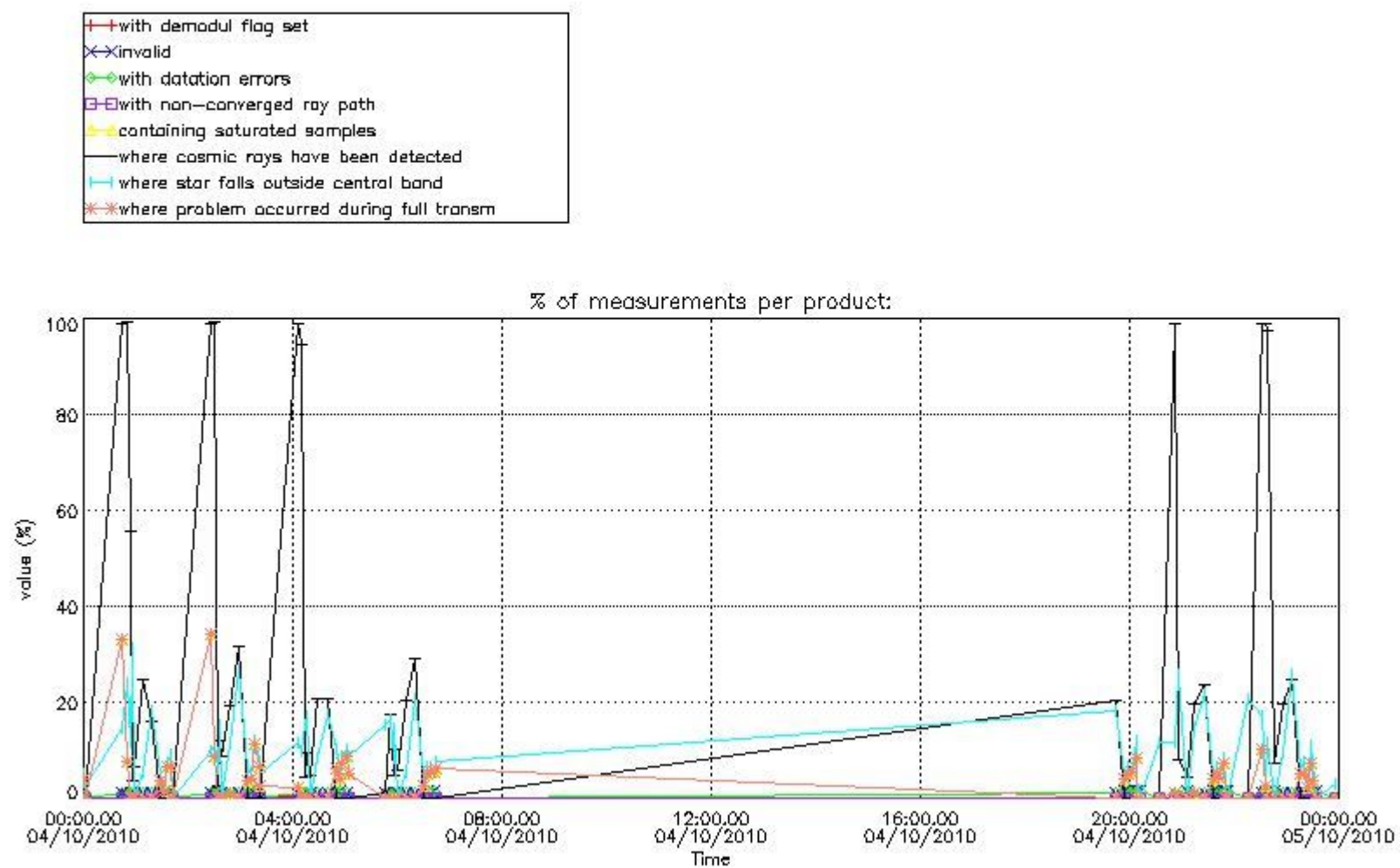
5. Demodulation flag and quality information monitoring

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.

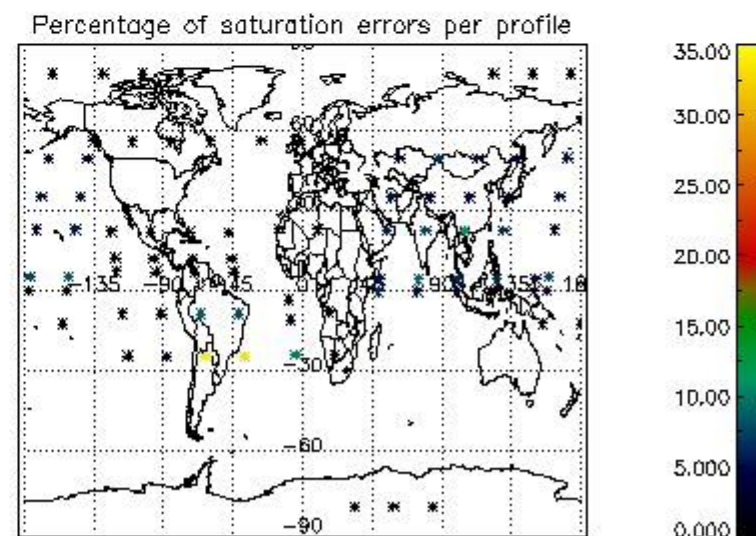
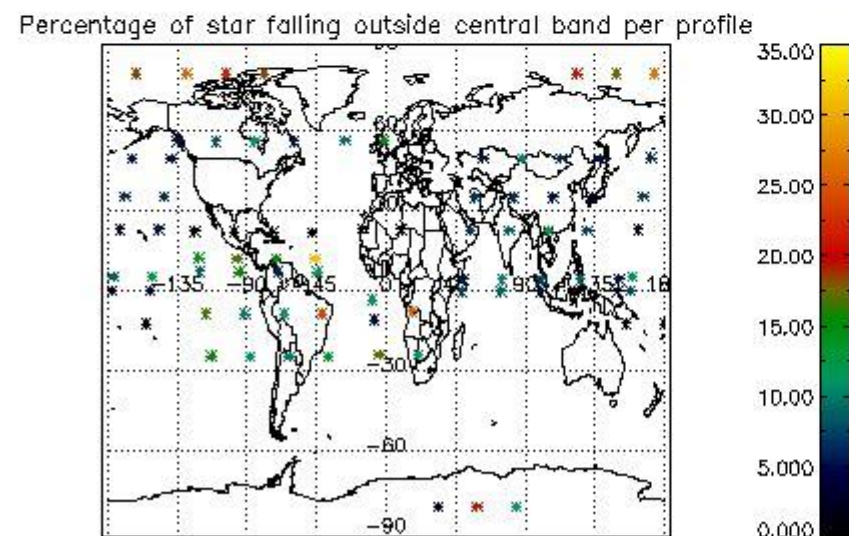
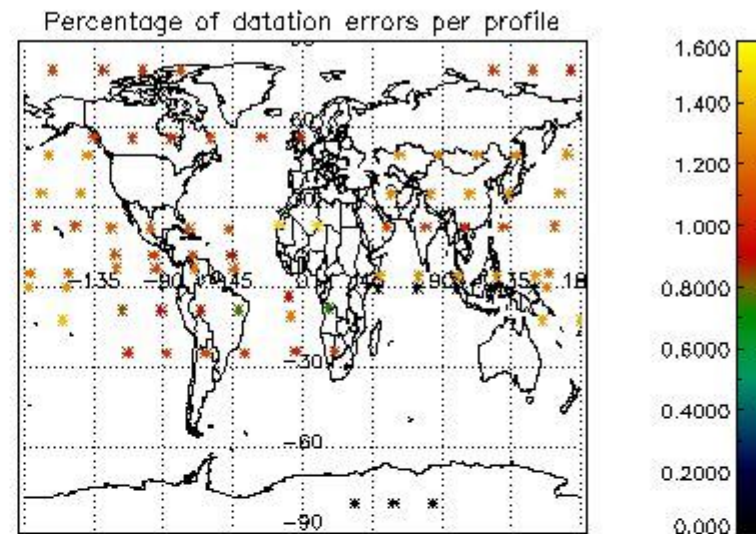
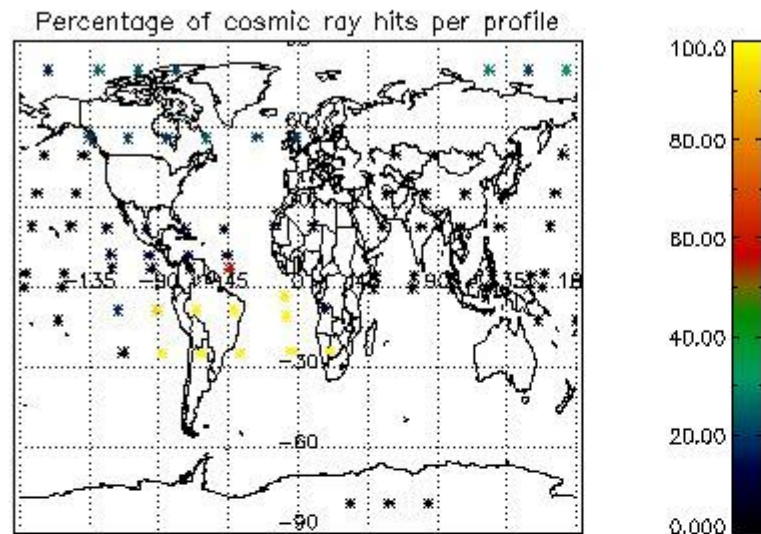
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	44.5783 %
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)



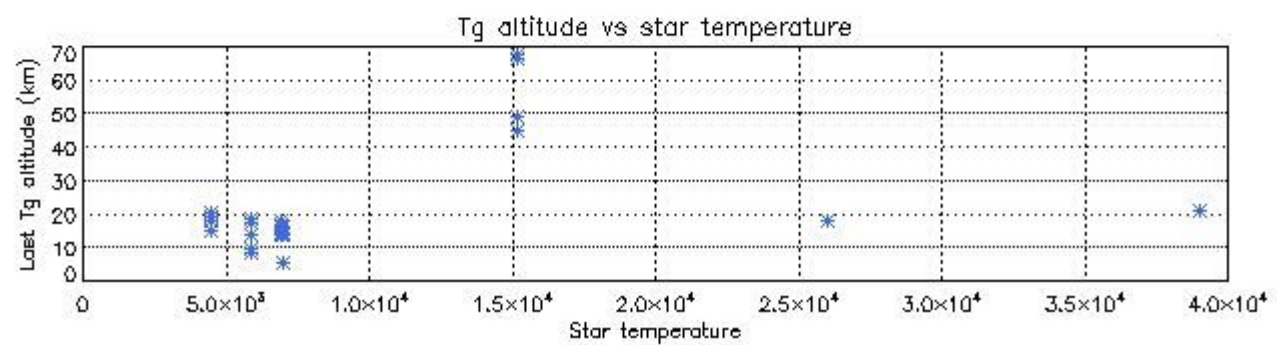
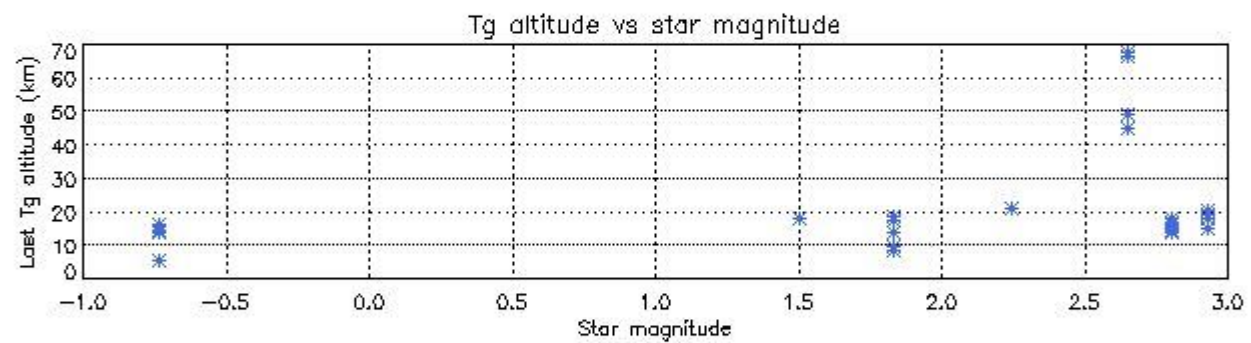
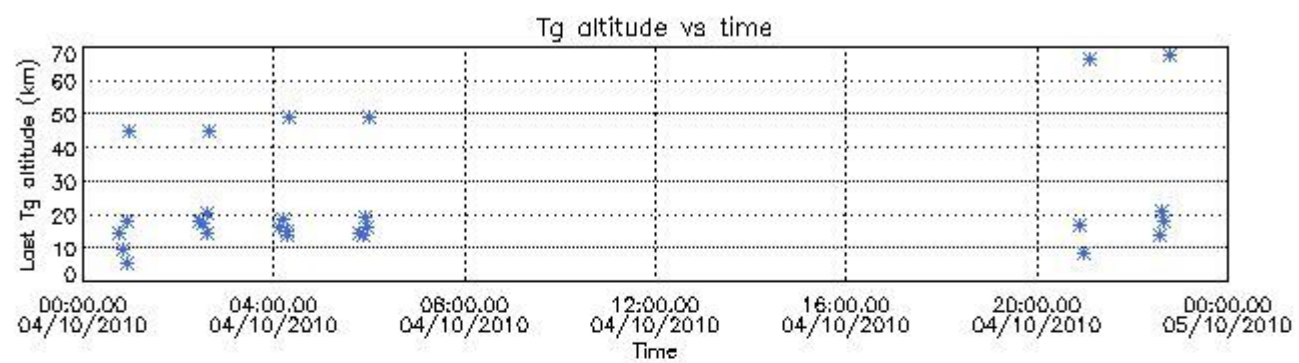
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	23.882	20.666	NaN
St. deviation:	17.188	2.4645	NaN
Maximum:	67.333	27.871	NaN
Minimum:	5.3628	12.745	NaN
Number of data:	27.000	40.000	NaN

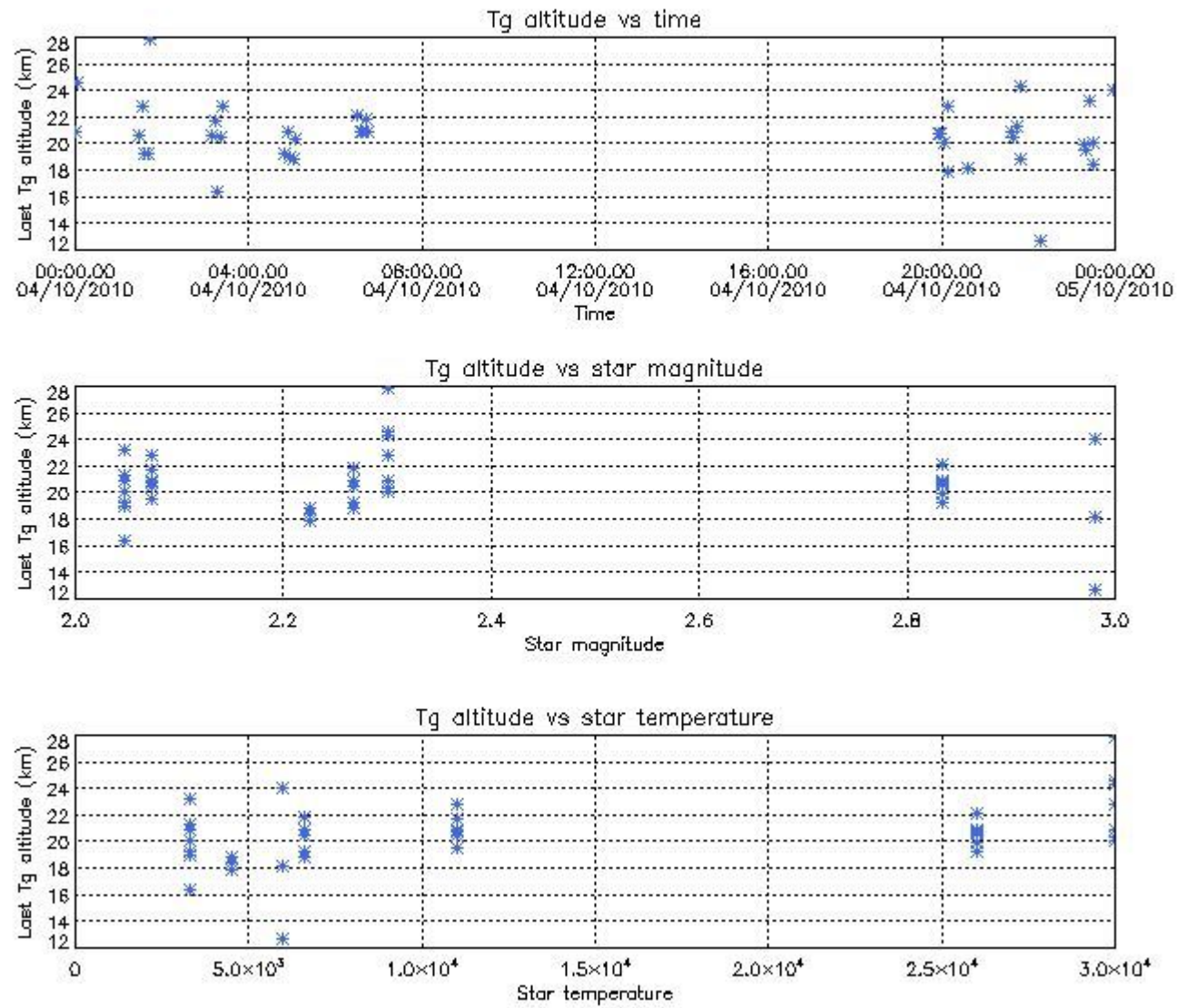
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

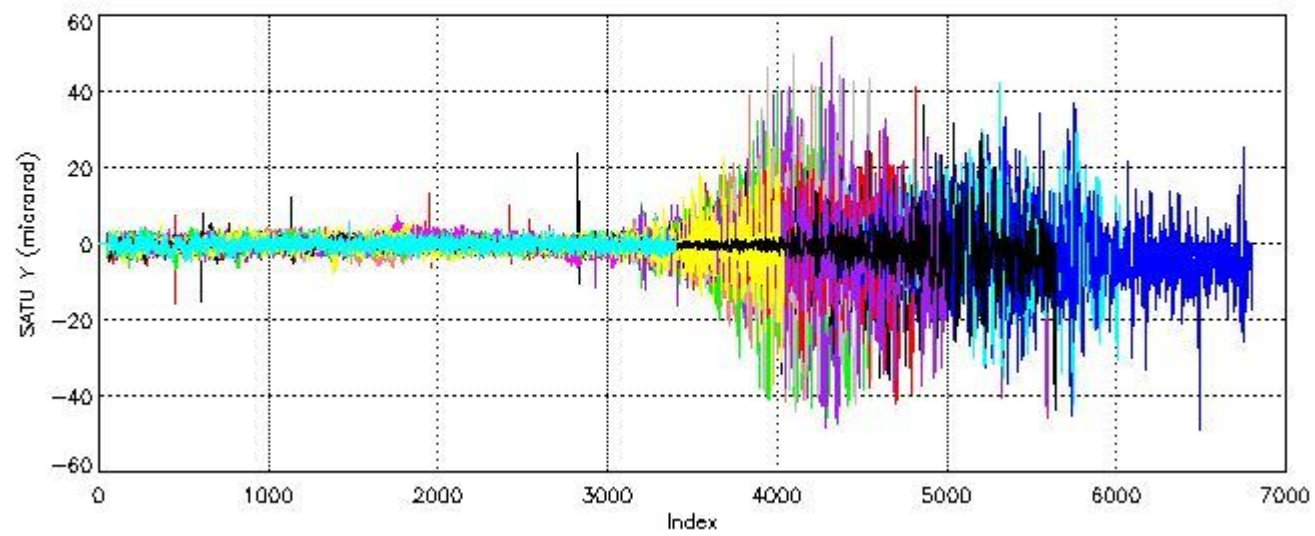
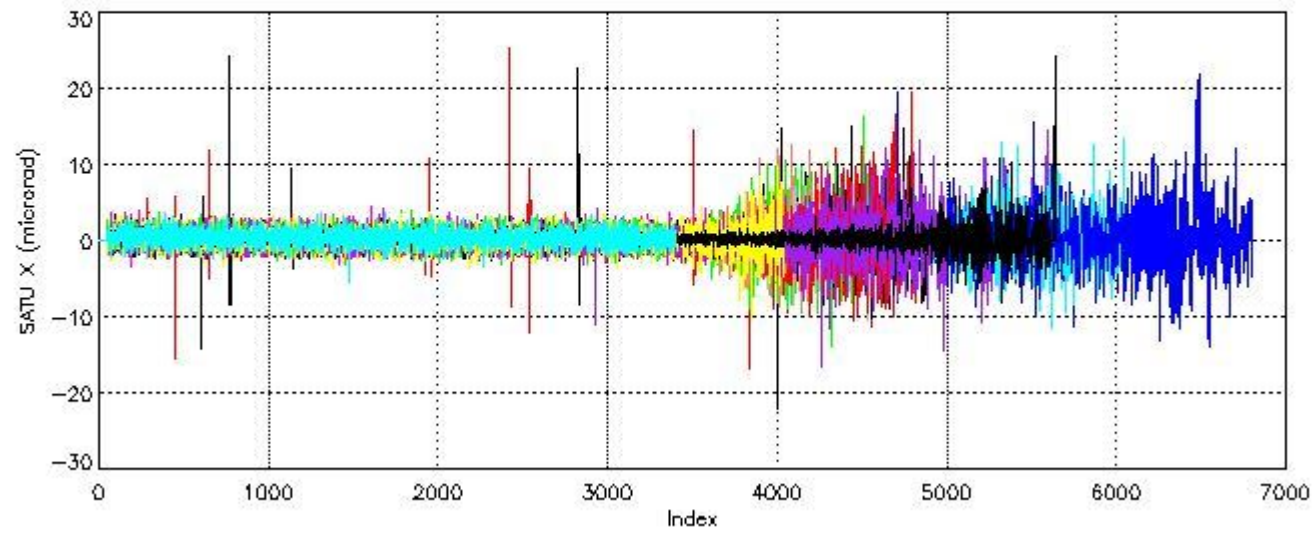


7. Star Acquisition and Tracking Unit (SATU)

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:	0.23659	-0.29547	0.17713	-0.33693
St. deviation:	0.63020	1.0743	0.81315	1.2562
Maximum:	24.100	8.0000	5.7000	6.6000
Minimum:	-15.400	-15.800	-6.0000	-8.3000

Number of data:	30950.	30950.	39100.	39100.
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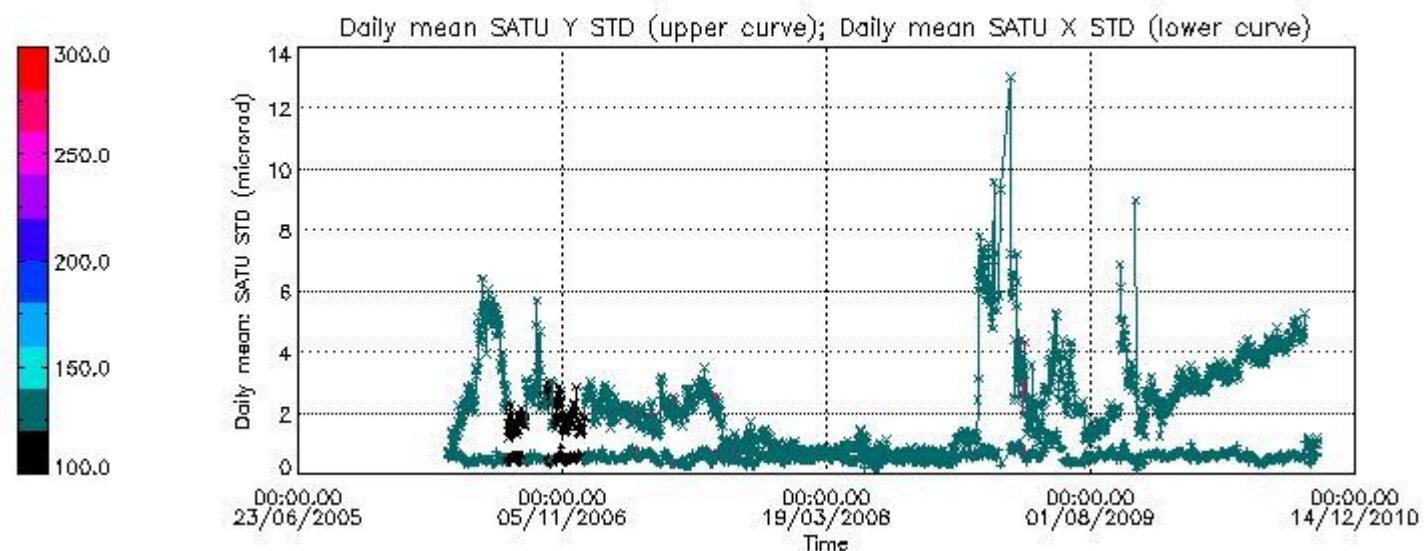
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

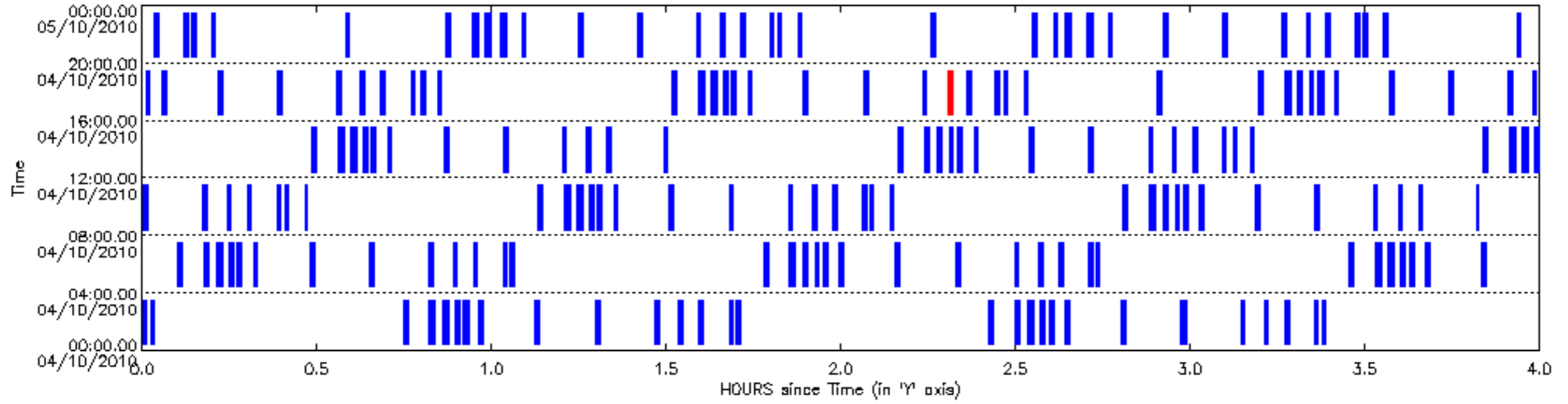
Lower curve: STD of SATU X axis

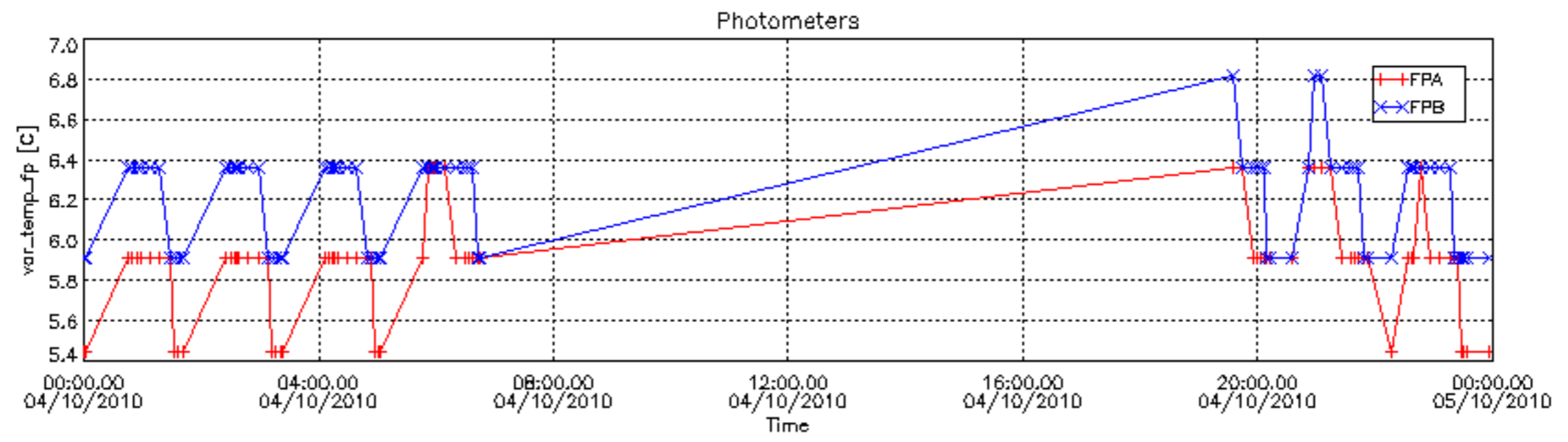
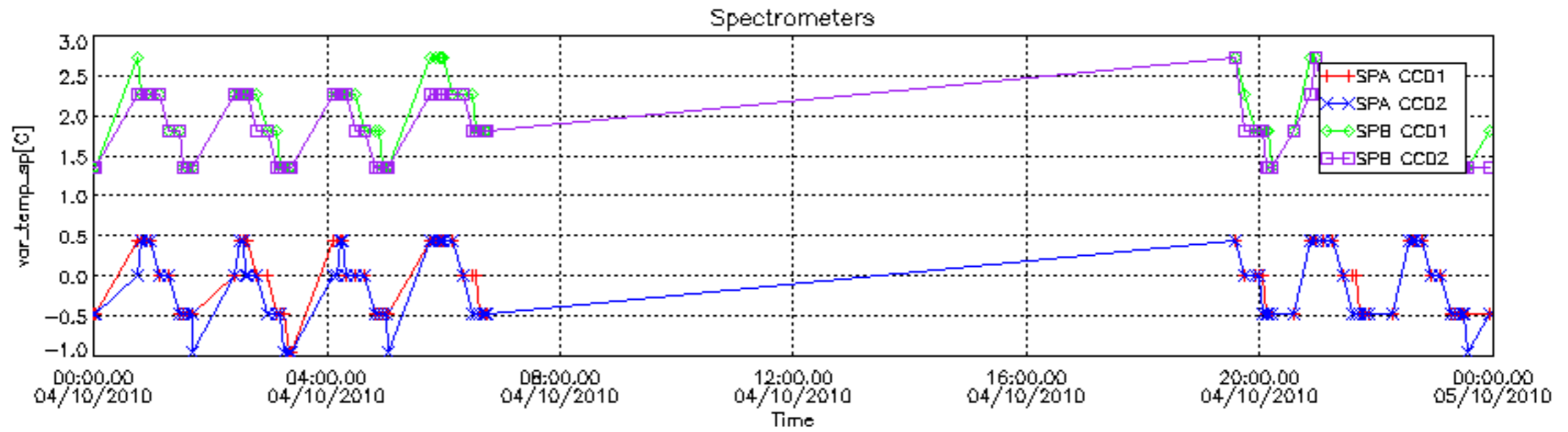


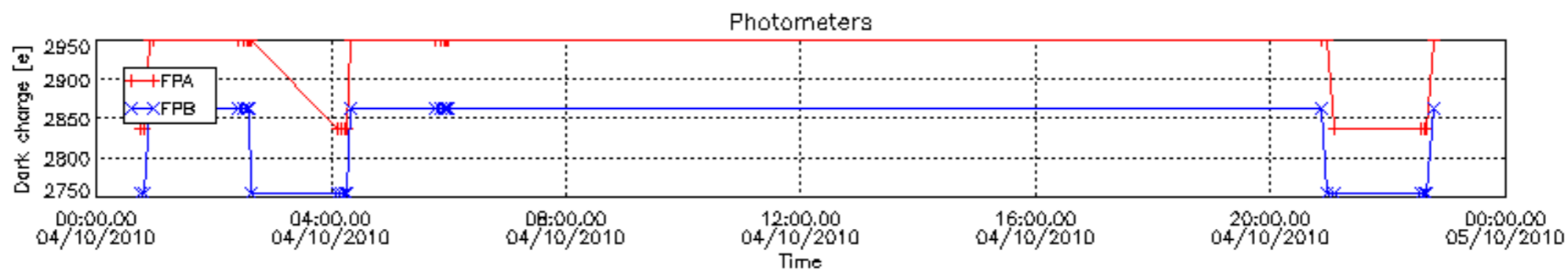
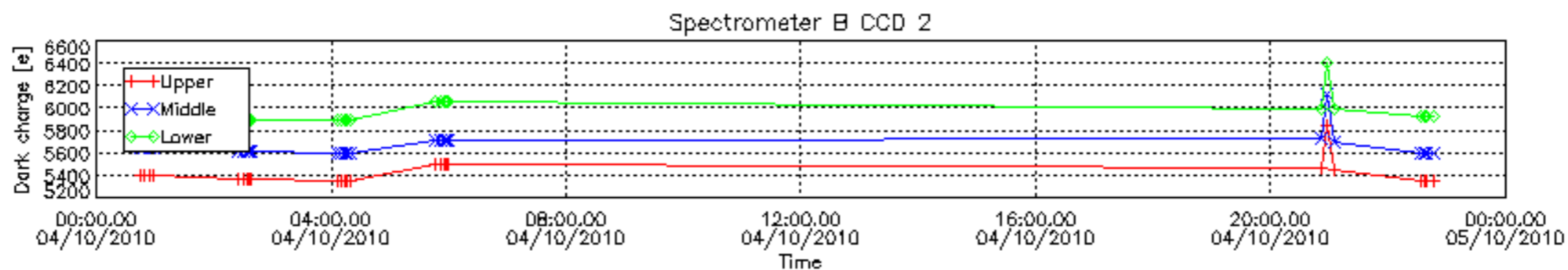
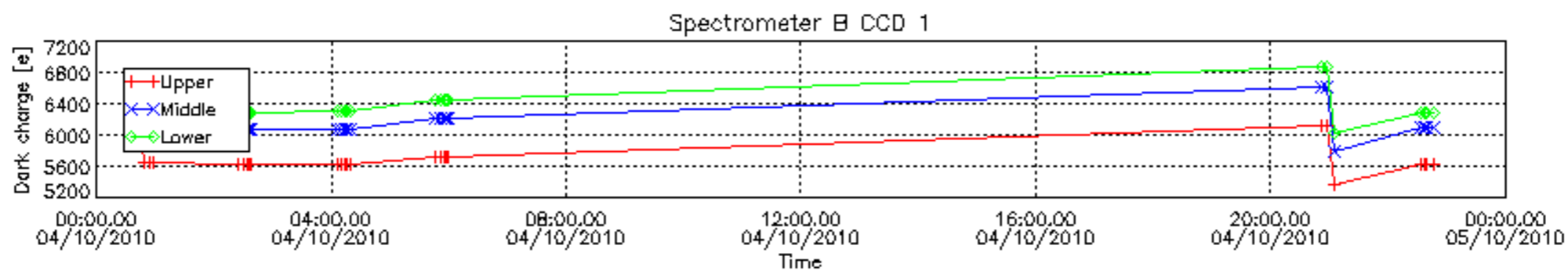
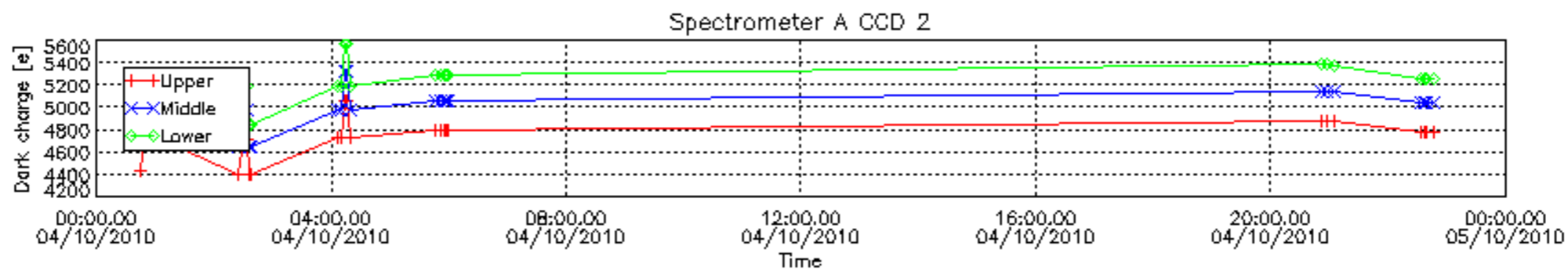
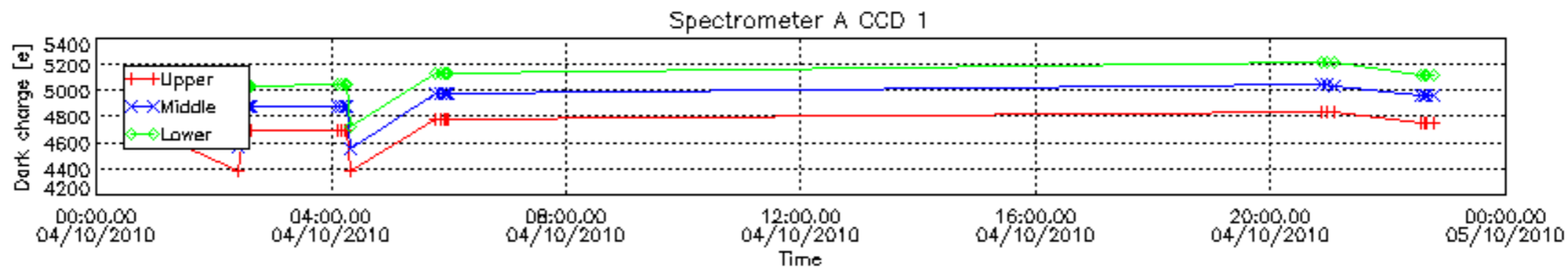
8. Auxiliary Data Files used for the production reported in section 2.4

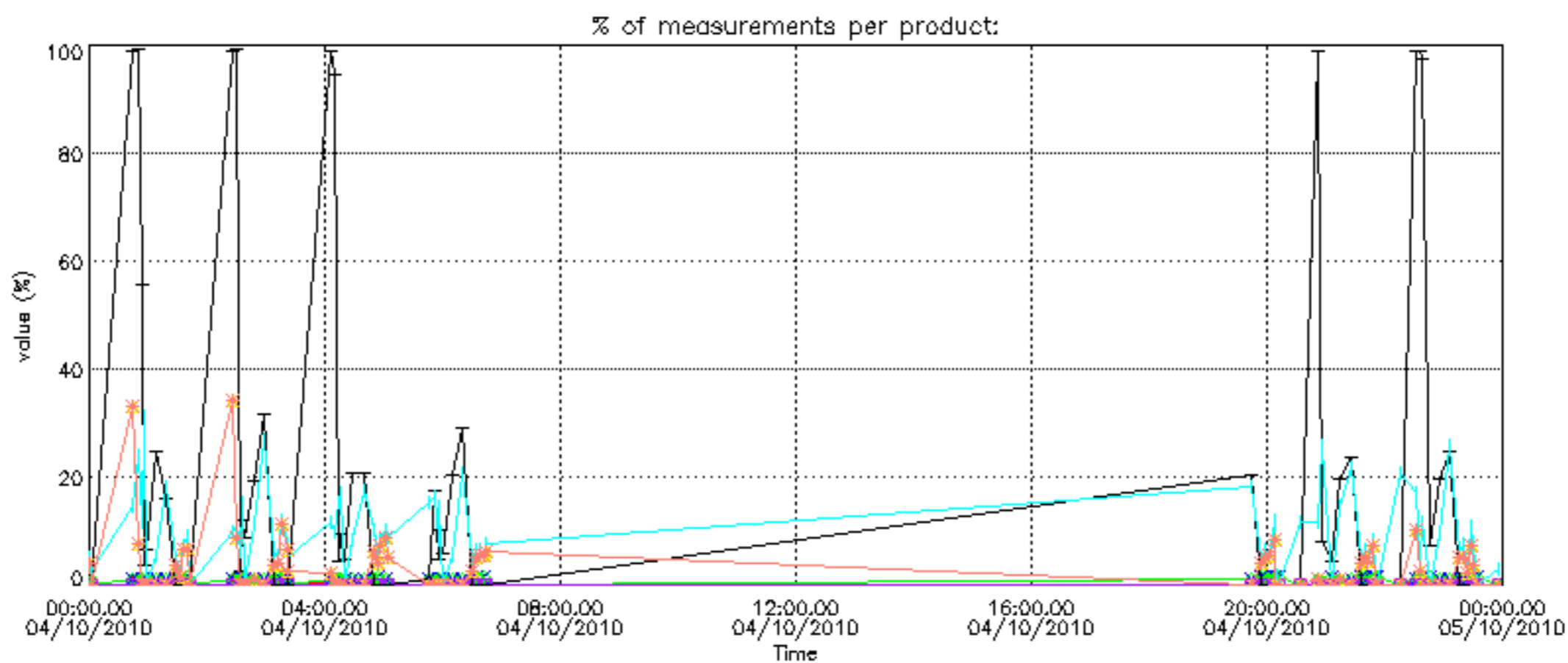
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	04-OCT-2010 00:00:11
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100923_133008_20100922_000000_20500101_000000	1	04-OCT-2010 00:00:11
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20101004_093812_20101002_000000_20500101_000000	51	04-OCT-2010 19:34:11
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	04-OCT-2010 00:00:11
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	04-OCT-2010 00:00:11
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	04-OCT-2010 00:00:11
ECMWF_FILE	AUX_ECF_AXNECM20101003_054114_20101003_210000_20101004_090000	1	04-OCT-2010 00:00:11
ECMWF_FILE	AUX_ECF_AXNECM20101003_172113_20101004_030000_20101004_150000	27	04-OCT-2010 04:06:03
ECMWF_FILE	AUX_ECA_AXNECM20101004_052115_20101003_210000_20101004_090000	39	04-OCT-2010 05:46:40
ECMWF_FILE	AUX_ECA_AXNECM20101004_172115_20101004_090000_20101004_210000	51	04-OCT-2010 19:34:11
ECMWF_FILE	AUX_ECF_AXNECM20101004_052116_20101004_150000_20101005_030000	60	04-OCT-2010 20:52:12
ECMWF_FILE	AUX_ECF_AXNECM20101004_054114_20101004_210000_20101005_090000	72	04-OCT-2010 22:32:49
OPTIONAL_ECMWF_FILE	MISSING	1	04-OCT-2010 00:00:11
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20101003_092113_20101002_184059_20101012_200710	1	04-OCT-2010 00:00:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101004_003859_000054192093_00288_44931_1191.N1	3	04-OCT-2010 00:44:50
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101004_021438_000041442093_00289_44932_1192.N1	15	04-OCT-2010 02:25:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101004_032901_000057382093_00290_44933_1193.N1	27	04-OCT-2010 04:06:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101004_050958_000057382093_00291_44934_1194.N1	39	04-OCT-2010 05:46:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101004_193042_000038252093_00300_44943_1195.N1	51	04-OCT-2010 19:34:11
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20101004_092115_20101003_194958_20101013_211609	60	04-OCT-2010 20:52:12

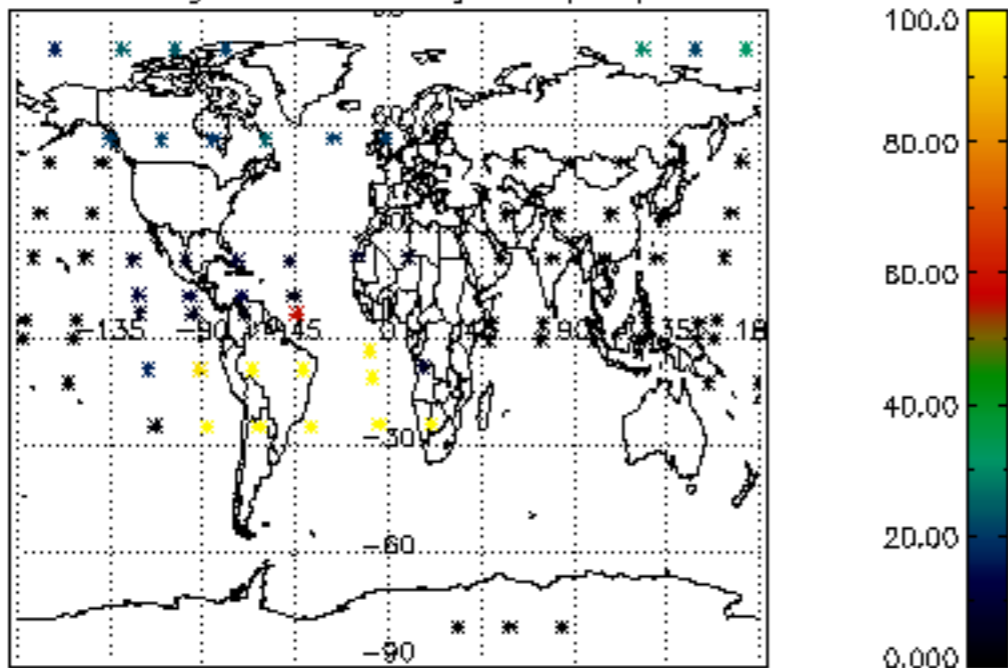




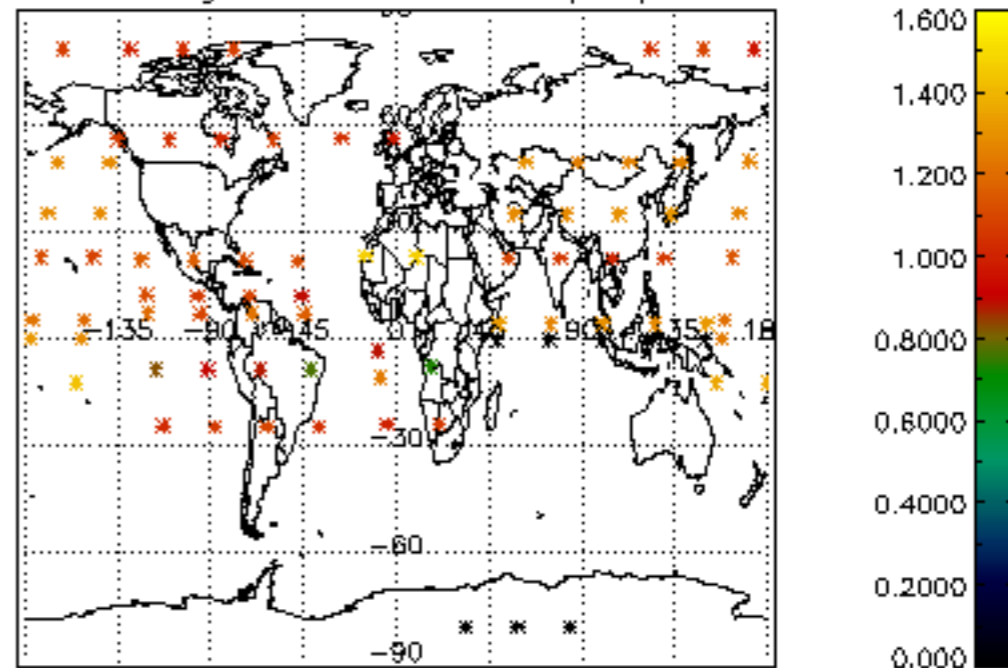




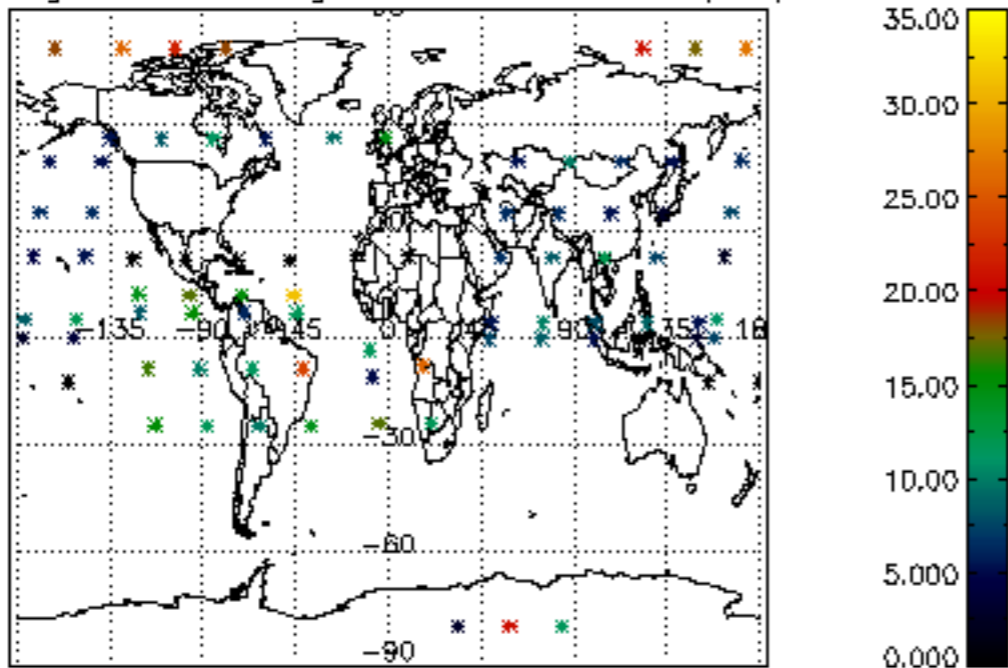
Percentage of cosmic ray hits per profile



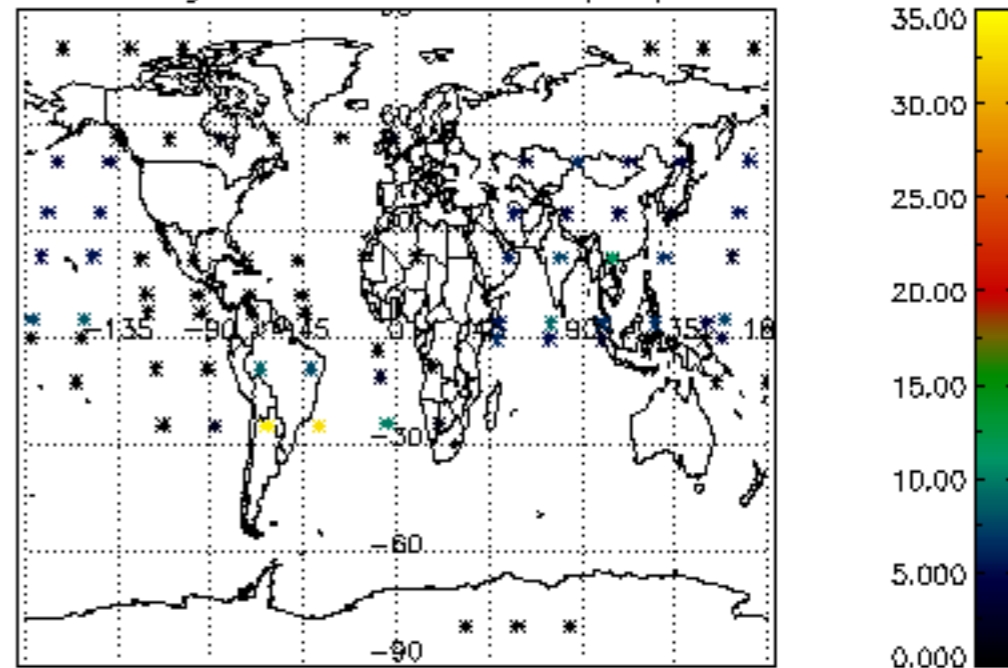
Percentage of datation errors per profile



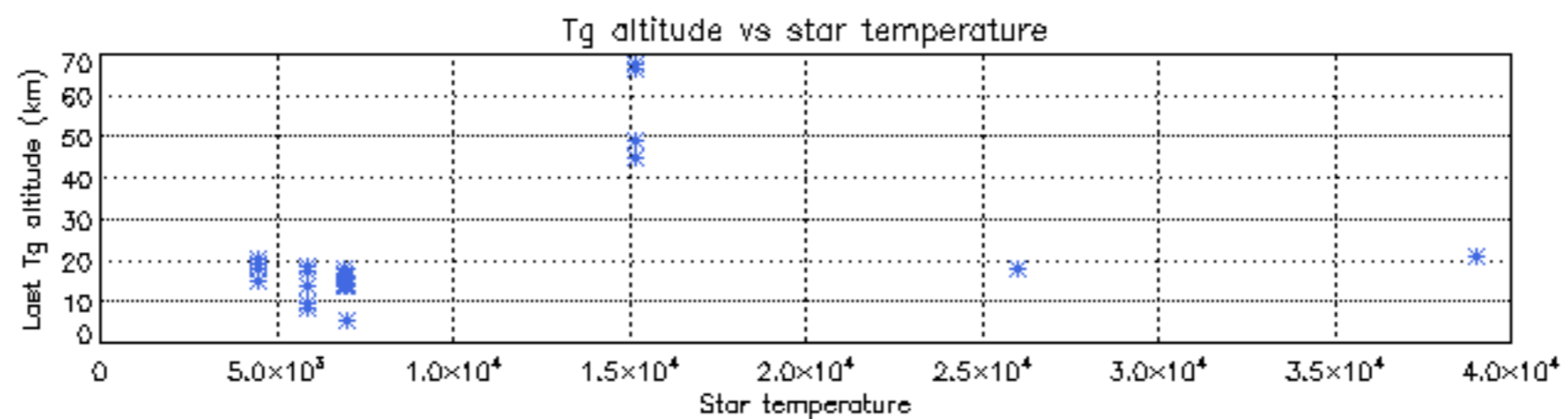
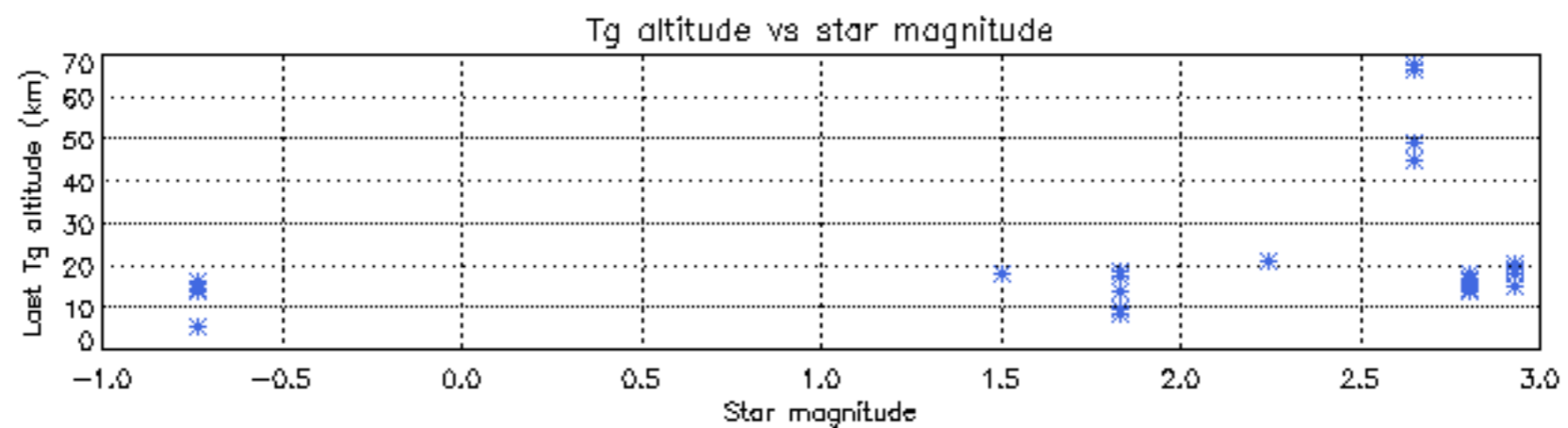
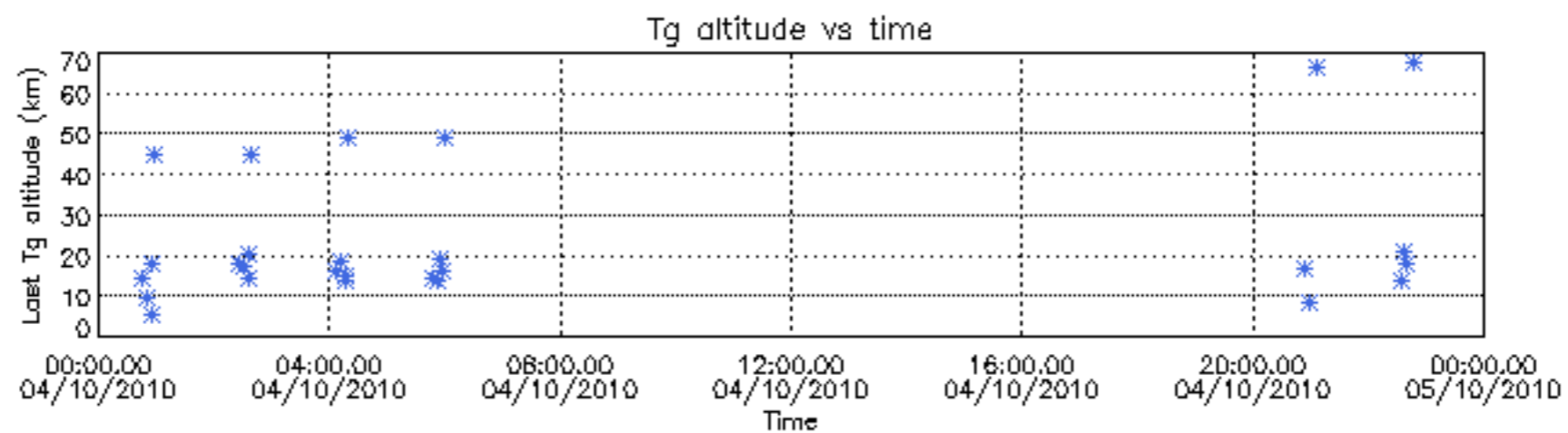
Percentage of star falling outside central band per profile

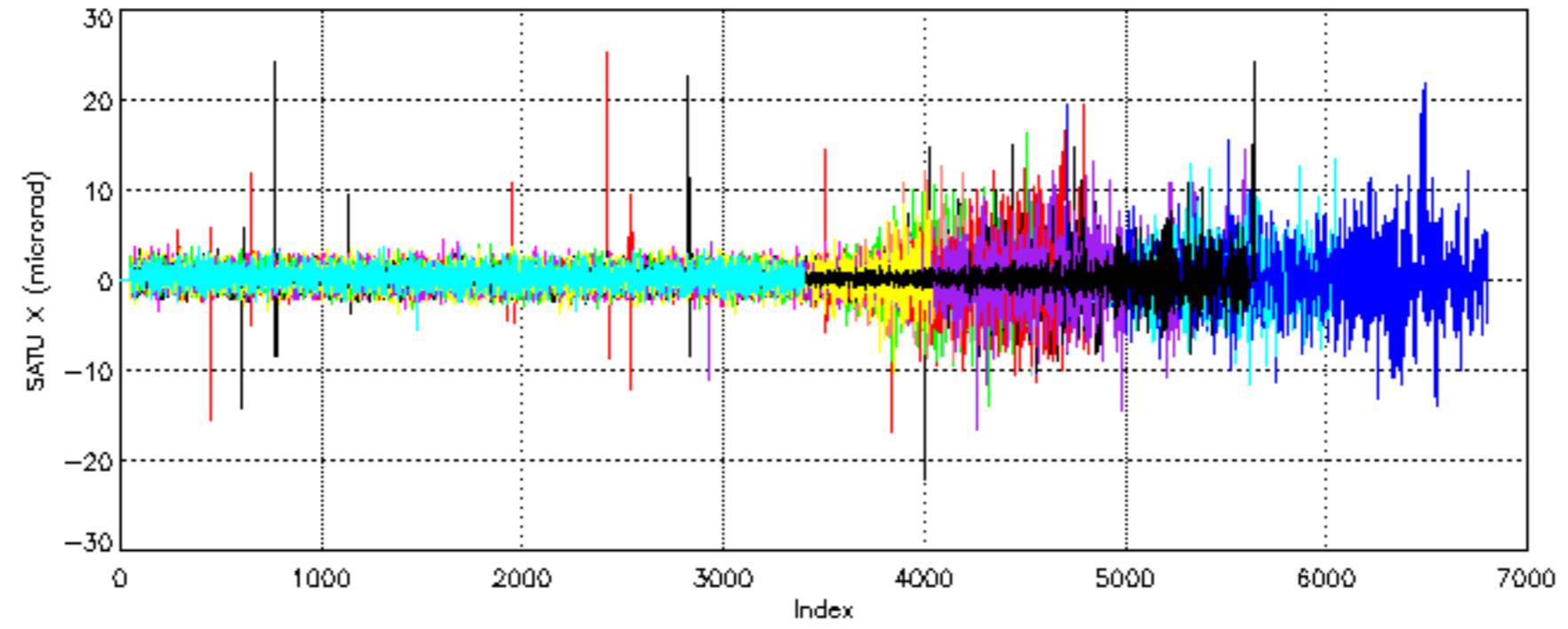


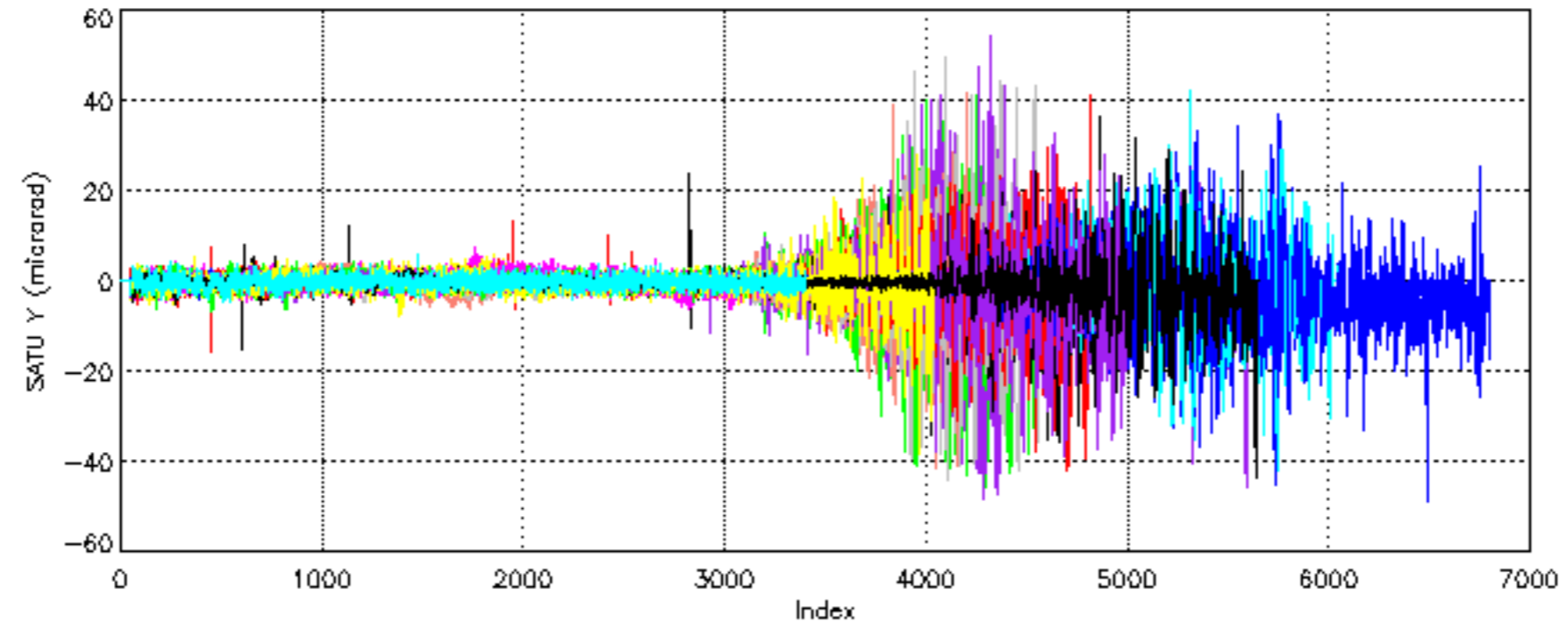
Percentage of saturation errors per profile

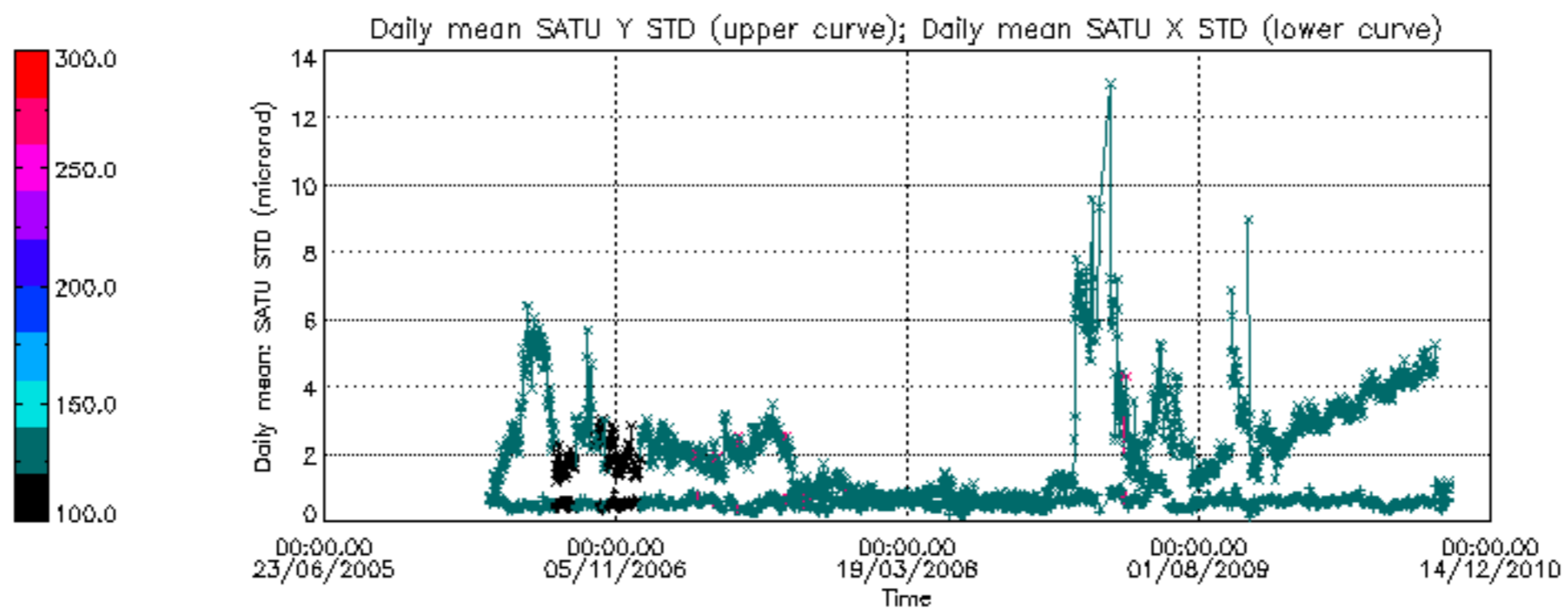


Tangent altitude at which the star is lost









/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

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20101001_052225_000045952093_00248_44891_0968.N1

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
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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
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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
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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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 4; 2677.6; 13-OCT-2010 18:39:35; Bright; 47.5; 173; 4Bet Tri ; 3.00; 8900;occ; 95; 0;45071
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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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 5; 232.5; 14-OCT-2010 00:41:13; Dark ; 44.5; 161; Tau Pup ; 2.93; 4500;occ; 89; 0;45075
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 5; 233.3; 14-OCT-2010 02:21:50; Dark ; 45.0; 161; Tau Pup ; 2.93; 4500;occ; 90; 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
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 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
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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
 8; 586.4; 14-OCT-2010 05:48:55; Dark ; 64.0; 108; Alp Col ; 2.65; 15200;occ; 128; 0;45078
 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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 12; 2672.1; 14-OCT-2010 06:23:41; Bright; 46.5; 173; 4Bet Tri ; 3.00; 8900;occ; 93; 0;45078
 13; 2781.4; 14-OCT-2010 06:25:30; Bright; 46.5; 73; 57Gam1And ; 2.26; 13100;occ; 93; 0;45078
 14; 2973.4; 14-OCT-2010 06:28:42; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 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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 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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 3; 318.4; 14-OCT-2010 09:05:39; Dark ; 60.0; 2; Alp Car ; -0.74; 7000;occ; 120; 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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6; 3090.4; 15-OCT-2010 09:20:13; Bright; 47.0; 160; 23Gam Per ; 2.93; 4700;occ; 94; 0;45094
7; 4631.7; 15-OCT-2010 09:45:55; Bright; 42.0; 166; 17Eps Leo ; 2.98; 6000;occ; 84; 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
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4; 2769.7; 15-OCT-2010 12:36:04; Bright; 47.0; 73; 57Gam1And ; 2.26; 13100;occ; 94; 0;45096
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7; 4632.3; 15-OCT-2010 13:07:07; Bright; 42.0; 166; 17Eps Leo ; 2.98; 6000;occ; 84; 0;45096
8; 4827.7; 15-OCT-2010 13:10:22; Bright; 40.0; 22; 32Alp Leo ; 1.36; 15200;occ; 80; 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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6; 148.5; 17-OCT-2010 07:27:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45122
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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 4; 2752.8; 17-OCT-2010 09:51:57; Bright; 47.0; 73; 57Gam1And ; 2.26; 13100;occ; 94; 0;45123
 5; 2981.6; 17-OCT-2010 09:55:46; Bright; 38.5; 110; 37Del Cas ; 2.68; 8900;occ; 77; 0;45123
 6; 3068.0; 17-OCT-2010 09:57:12; Bright; 43.5; 160; 23Gam Per ; 2.93; 4700;occ; 87; 0;45123
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 8; 4837.5; 17-OCT-2010 12:07:18; Bright; 42.0; 22; 32Alp Leo ; 1.36; 15200;occ; 84; 0;45124
 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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11; 6006.3; 17-OCT-2010 12:26:47; Dark ; 47.5; 70; Zet Pup ; 2.25; 39000;occ; 95; 0;45124
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13; 6390.8; 17-OCT-2010 12:33:11; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;45124
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 3; 2638.3; 17-OCT-2010 13:11:15; Bright; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;45125
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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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 9; 5289.2; 17-OCT-2010 13:55:25; Dark ; 54.0; 48; 30Alp Hya ; 1.98; 4100;occ; 108; 0;45125
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13; 6391.7; 17-OCT-2010 14:13:48; Dark ; 48.5; 2; Alp Car ;-0.74; 7000;occ; 97; 0;45125
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 8; 4848.2; 19-OCT-2010 12:44:50; Bright; 59.0; 22; 32Alp Leo ; 1.36; 15200;occ; 118; 0;45153
 9; 5310.8; 19-OCT-2010 12:52:33; Dark ; 54.0; 48; 30Alp Hya ; 1.98; 4100;occ; 108; 0;45153
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 4; 2973.0; 19-OCT-2010 15:34:47; Bright; 39.0; 110; 37Del Cas ; 2.68; 8900;occ; 78; 0;45155
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 6; 4647.9; 19-OCT-2010 16:02:41; Bright; 44.0; 166; 17Eps Leo ; 2.98; 6000;occ; 88; 0;45155
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 9; 5879.2; 19-OCT-2010 16:23:13; Dark ; 56.0; 132; 15Rho Pup ; 2.80; 6900;occ; 112; 0;45155
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 6; 2972.5; 19-OCT-2010 17:15:22; Bright; 38.5; 110; 37Del Cas ; 2.68; 8900;occ; 77; 0;45156
 7; 3058.9; 19-OCT-2010 17:16:48; Bright; 53.5; 35; 33Alp Per ; 1.79; 6250;occ; 107; 0;45156
 8; 4648.3; 19-OCT-2010 17:43:18; Bright; 60.0; 166; 17Eps Leo ; 2.98; 6000;occ; 120; 0;45156
 9; 4849.5; 19-OCT-2010 17:46:39; Bright; 60.0; 22; 32Alp Leo ; 1.36; 15200;occ; 120; 0;45156
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 3; 2539.5; 19-OCT-2010 18:48:45; Bright; 39.5; 53; 43Bet And ; 2.05; 3300;occ; 79; 0;45157
 4; 2733.4; 19-OCT-2010 18:51:59; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;45157
 5; 2889.9; 19-OCT-2010 18:54:35; Bright; 42.0; 79; 26Bet Per ; 2.31; 13100;occ; 84; 0;45157
 6; 2972.2; 19-OCT-2010 18:55:58; Bright; 39.0; 110; 37Del Cas ; 2.68; 8900;occ; 78; 0;45157
 7; 3058.0; 19-OCT-2010 18:57:24; Bright; 50.0; 35; 33Alp Per ; 1.79; 6250;occ; 100; 0;45157
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 3; 44.9; 20-OCT-2010 00:49:34; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;45161
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 7; 2322.7; 20-OCT-2010 01:27:32; Bright; 45.0; 105; 6Bet Ari ; 2.64; 8900;occ; 90; 0;45161
 8; 2538.1; 20-OCT-2010 01:31:07; Bright; 42.5; 53; 43Bet And ; 2.05; 3300;occ; 85; 0;45161
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 5; 184.8; 20-OCT-2010 02:32:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45162
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 8; 2322.2; 20-OCT-2010 03:08:07; Bright; 45.0; 105; 6Bet Ari ; 2.64; 8900;occ; 90; 0;45162
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10; 2730.7; 20-OCT-2010 03:14:56; Bright; 43.5; 73; 57Gam1And ; 2.26; 13100;occ; 87; 0;45162
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 4; 2863.1; 21-OCT-2010 16:10:18; Bright; 53.0; 79; 26Bet Per ; 2.31; 13100;occ; 106; 0;45184
 5; 3024.1; 21-OCT-2010 16:12:59; Bright; 45.5; 160; 23Gam Per ; 2.93; 4700;occ; 91; 0;45184
 6; 4860.6; 21-OCT-2010 16:43:36; Bright; 42.5; 22; 32Alp Leo ; 1.36; 15200;occ; 85; 0;45184
 7; 5336.7; 21-OCT-2010 16:51:32; Dark ; 58.5; 48; 30Alp Hya ; 1.98; 4100;occ; 117; 0;45184
 8; 5922.5; 21-OCT-2010 17:01:17; Dark ; 58.0; 132; 15Rho Pup ; 2.80; 6900;occ; 116; 0;45184
 9; 6066.6; 21-OCT-2010 17:03:41; Dark ; 46.0; 70; Zet Pup ; 2.25; 39000;occ; 92; 0;45184
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11; 6439.6; 21-OCT-2010 17:09:55; Dark ; 50.5; 2; Alp Car ;-0.74; 7000;occ; 101; 0;45184
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 3; 2532.8; 21-OCT-2010 17:45:24; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;45185
 4; 2719.0; 21-OCT-2010 17:48:30; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;45185
 5; 2862.1; 21-OCT-2010 17:50:53; Bright; 54.0; 79; 26Bet Per ; 2.31; 13100;occ; 108; 0;45185
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 7; 4861.1; 21-OCT-2010 18:24:12; Bright; 40.5; 22; 32Alp Leo ; 1.36; 15200;occ; 81; 0;45185
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