

GOMOS Daily Report 05-JUL-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	13JUL2010 05:11:15
Data source version	GOMOS/5.01
Start time of products	05JUL2010 00:10:25
Stop time of products	05JUL2010 23:54:00
Store outputs in DB	Yes
Nb of level 1b prods	88
Nb of prods with errors	0

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

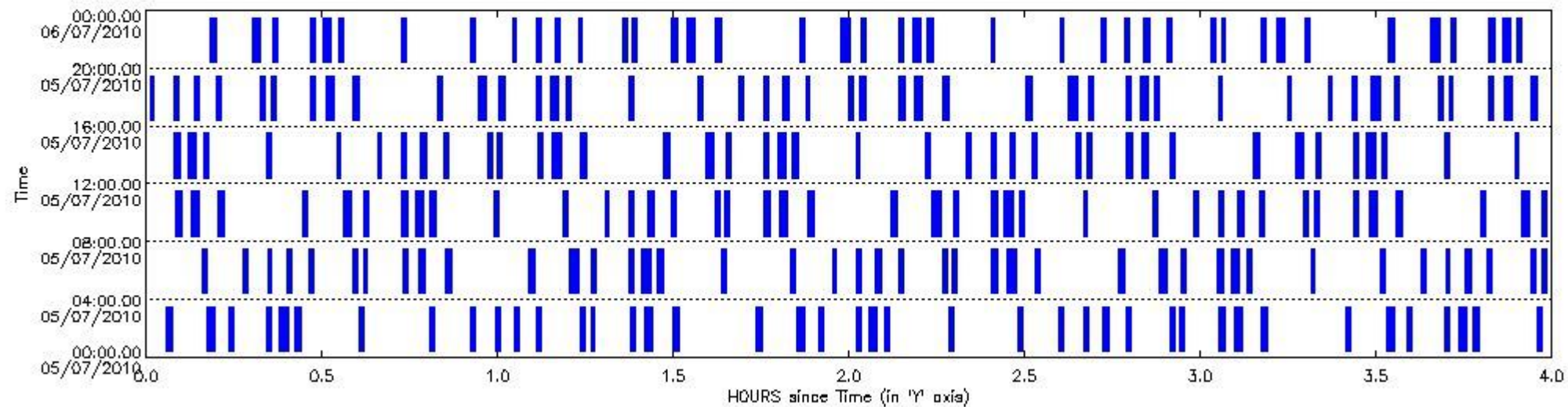
2.1 Level 0 products arrived in PCF (see template [here](#))

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.

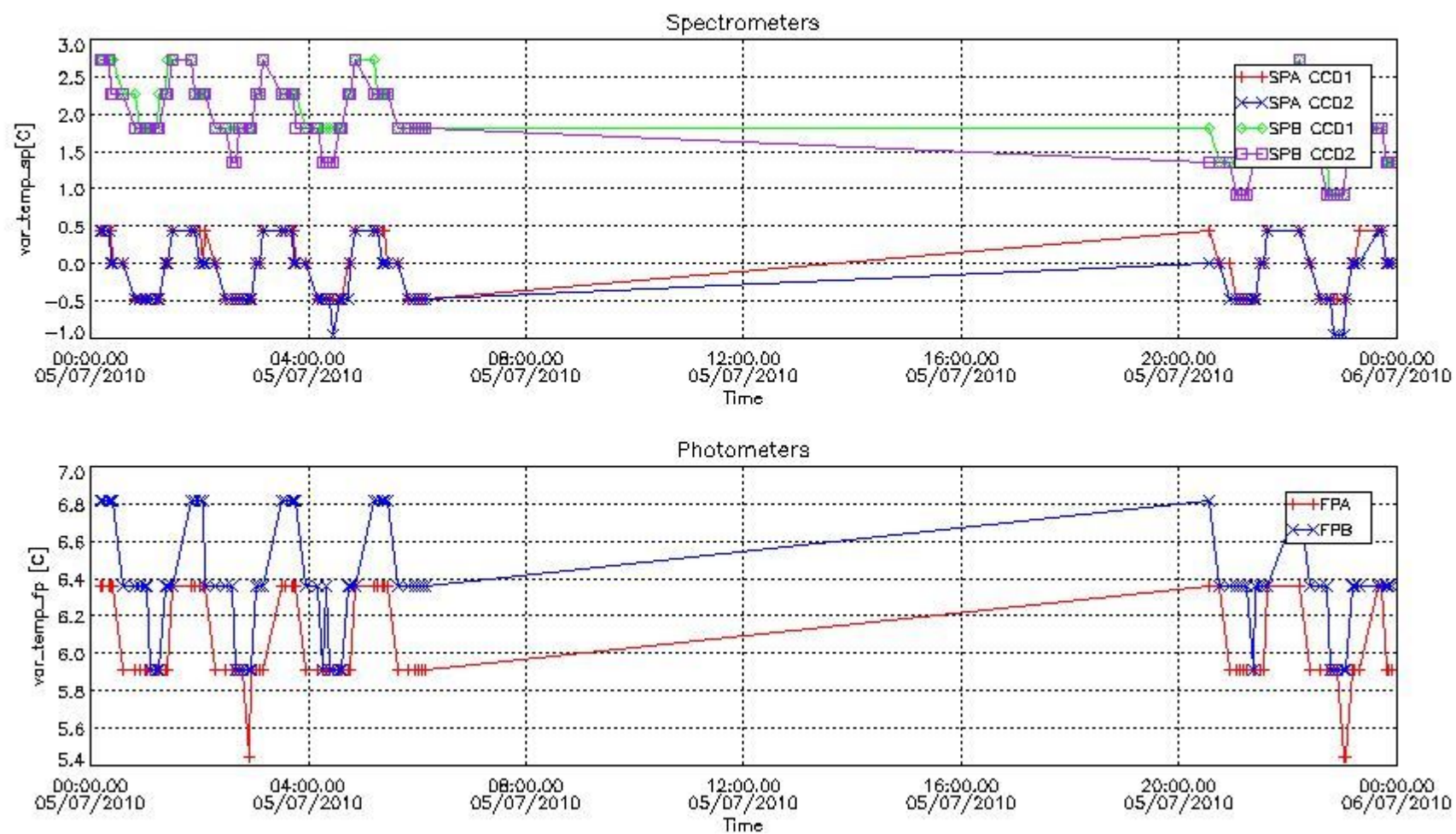
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100705_001025_000000772090_00488_43628_4361.N1	05-JUL-2010 00:10:25	Dark	76.500	52	16Bet Cet	2.0370	4500.0	153	43628	No
2	GOM_TRA_1PNPDE20100705_001406_000000502090_00489_43629_4362.N1	05-JUL-2010 00:14:06	Dark	50.000	84	Alp Phe	2.3970	4500.0	100	43629	No
3	GOM_TRA_1PNPDE20100705_002030_000000542090_00489_43629_4363.N1	05-JUL-2010 00:20:30	Straylight	54.000	63	Bet Gru	2.1500	2800.0	108	43629	No
4	GOM_TRA_1PNPDE20100705_002244_000000902090_00489_43629_4364.N1	05-JUL-2010 00:22:44	Straylight	90.000	18	24Alp PsA	1.1660	9700.0	180	43629	No
5	GOM_TRA_1PNPDE20100705_002524_000000572090_00489_43629_4365.N1	05-JUL-2010 00:25:24	Straylight	56.500	172	Gam Gru	3.0030	13100.	113	43629	No
6	GOM_TRA_1PNPDE20100705_003623_000000442090_00489_43629_4366.N1	05-JUL-2010 00:36:23	Bright	44.000	155	41Pi Sgr	2.9000	6600.0	88	43629	No
7	GOM_TRA_1PNPDE20100705_004818_000000462090_00489_43629_4367.N1	05-JUL-2010 00:48:18	Bright	45.500	168	17Zet Aql	2.9860	11000.	91	43629	No
8	GOM_TRA_1PNPDE20100705_005520_000000442090_00489_43629_4368.N1	05-JUL-2010 00:55:20	Bright	44.000	5	3Alp Lyr	0.033000	11000.	88	43629	No
9	GOM_TRA_1PNPDE20100705_005930_000000482090_00489_43629_4369.N1	05-JUL-2010 00:59:30	Bright	48.000	144	18Del Cyg	2.8600	11000.	96	43629	No
10	GOM_TRA_1PNPDE20100705_010250_000000562090_00489_43629_4370.N1	05-JUL-2010 01:02:50	Bright	55.500	19	50Alp Cyg	1.2460	10500.	111	43629	No
11	GOM_TRA_1PNPDE20100705_010640_000000422090_00489_43629_4371.N1	05-JUL-2010 01:06:40	Bright	42.000	89	5Alp Cep	2.4510	8000.0	84	43629	No
12	GOM_TRA_1PNPDE20100705_011408_000000492090_00489_43629_4372.N1	05-JUL-2010 01:14:08	Bright	48.500	74	11Bet Cas	2.2680	6600.0	97	43629	No

13	GOM_TRA_1PNPDE20100705_011552_000000432090_00489_43629_4373.N1	05-JUL-2010 01:15:52	Bright	43.000	110	37Del Cas	2.6780	8900.0	86	43629	No
14	GOM_TRA_1PNPDE20100705_012234_000000522090_00489_43629_4374.N1	05-JUL-2010 01:22:34	Bright	51.500	73	57Gam1And	2.2600	13100.	103	43629	No
15	GOM_TRA_1PNPDE20100705_012511_000000812090_00489_43629_4375.N1	05-JUL-2010 01:25:11	Tw_i_and_stray	81.000	53	43Bet And	2.0480	3300.0	162	43629	No
16	GOM_TRA_1PNPDE20100705_012951_000000602090_00489_43629_4376.N1	05-JUL-2010 01:29:51	Dark	59.500	50	13Alp Ari	2.0070	4250.0	119	43629	No
17	GOM_TRA_1PNPDE20100705_015103_000000792090_00489_43629_4380.N1	05-JUL-2010 01:51:03	Dark	78.500	52	16Bet Cet	2.0370	4500.0	157	43629	No
18	GOM_TRA_1PNPDE20100705_015443_000000502090_00490_43630_4381.N1	05-JUL-2010 01:54:43	Dark	49.500	84	Alp Phe	2.3970	4500.0	99	43630	No
19	GOM_TRA_1PNPDE20100705_020107_000000642090_00490_43630_4382.N1	05-JUL-2010 02:01:07	Straylight	63.500	63	Bet Gru	2.1500	2800.0	127	43630	No
20	GOM_TRA_1PNPDE20100705_020322_000000872090_00490_43630_4383.N1	05-JUL-2010 02:03:22	Straylight	86.500	18	24Alp PsA	1.1660	9700.0	173	43630	No
21	GOM_TRA_1PNPDE20100705_020601_000000562090_00490_43630_4384.N1	05-JUL-2010 02:06:01	Straylight	56.000	172	Gam Gru	3.0030	13100.	112	43630	No
22	GOM_TRA_1PNPDE20100705_021659_000000452090_00490_43630_4385.N1	05-JUL-2010 02:16:59	Bright	44.500	155	41Pi Sgr	2.9000	6600.0	89	43630	No
23	GOM_TRA_1PNPDE20100705_022853_000000452090_00490_43630_4386.N1	05-JUL-2010 02:28:53	Bright	44.500	168	17Zet Aql	2.9860	11000.	89	43630	No
24	GOM_TRA_1PNPDE20100705_023555_000000452090_00490_43630_4387.N1	05-JUL-2010 02:35:55	Bright	44.500	5	3Alp Lyr	0.033000	11000.	89	43630	No
25	GOM_TRA_1PNPDE20100705_024005_000000452090_00490_43630_4388.N1	05-JUL-2010 02:40:05	Bright	44.500	144	18Del Cyg	2.8600	11000.	89	43630	No
26	GOM_TRA_1PNPDE20100705_024325_000000532090_00490_43630_4389.N1	05-JUL-2010 02:43:25	Bright	53.000	19	50Alp Cyg	1.2460	10500.	106	43630	No
27	GOM_TRA_1PNPDE20100705_024715_000000462090_00490_43630_4390.N1	05-JUL-2010 02:47:15	Bright	46.000	89	5Alp Cep	2.4510	8000.0	92	43630	No
28	GOM_TRA_1PNPDE20100705_025443_000000492090_00490_43630_4412.N1	05-JUL-2010 02:54:43	Bright	49.000	74	11Bet Cas	2.2680	6600.0	98	43630	No
29	GOM_TRA_1PNPDE20100705_025628_000000522090_00490_43630_4413.N1	05-JUL-2010 02:56:28	Bright	52.000	110	37Del Cas	2.6780	8900.0	104	43630	No
30	GOM_TRA_1PNPDE20100705_030310_000000552090_00490_43630_4414.N1	05-JUL-2010 03:03:10	Bright	55.000	73	57Gam1And	2.2600	13100.	110	43630	No
31	GOM_TRA_1PNPDE20100705_030547_000000812090_00490_43630_4415.N1	05-JUL-2010 03:05:47	Tw_i_and_stray	80.500	53	43Bet And	2.0480	3300.0	161	43630	No
32	GOM_TRA_1PNPDE20100705_031027_000000662090_00490_43630_4416.N1	05-JUL-2010 03:10:27	Dark	66.000	50	13Alp Ari	2.0070	4250.0	132	43630	No
33	GOM_TRA_1PNPDE20100705_033141_000000802090_00490_43630_4417.N1	05-JUL-2010 03:31:41	Dark	79.500	52	16Bet Cet	2.0370	4500.0	159	43630	No
34	GOM_TRA_1PNPDE20100705_033520_000000512090_00491_43631_4418.N1	05-JUL-2010 03:35:20	Dark	51.000	84	Alp Phe	2.3970	4500.0	102	43631	No
35	GOM_TRA_1PNPDE20100705_034144_000000542090_00491_43631_4419.N1	05-JUL-2010 03:41:44	Straylight	53.500	63	Bet Gru	2.1500	2800.0	107	43631	No
36	GOM_TRA_1PNPDE20100705_034359_000000822090_00491_43631_4420.N1	05-JUL-2010 03:43:59	Straylight	81.500	18	24Alp PsA	1.1660	9700.0	163	43631	No
37	GOM_TRA_1PNPDE20100705_034638_000000582090_00491_43631_4421.N1	05-JUL-2010 03:46:38	Straylight	58.000	172	Gam Gru	3.0030	13100.	116	43631	No
38	GOM_TRA_1PNPDE20100705_035735_000000452090_00491_43631_4422.N1	05-JUL-2010 03:57:35	Bright	44.500	155	41Pi Sgr	2.9000	6600.0	89	43631	No
39	GOM_TRA_1PNPDE20100705_040929_000000482090_00491_43631_4423.N1	05-JUL-2010 04:09:29	Bright	47.500	168	17Zet Aql	2.9860	11000.	95	43631	No
40	GOM_TRA_1PNPDE20100705_041631_000000452090_00491_43631_4424.N1	05-JUL-2010 04:16:31	Bright	44.500	5	3Alp Lyr	0.033000	11000.	89	43631	No
41	GOM_TRA_1PNPDE20100705_042040_000000472090_00491_43631_4425.N1	05-JUL-2010 04:20:40	Bright	46.500	144	18Del Cyg	2.8600	11000.	93	43631	No
42	GOM_TRA_1PNPDE20100705_042400_000000552090_00491_43631_4426.N1	05-JUL-2010 04:24:00	Bright	54.500	19	50Alp Cyg	1.2460	10500.	109	43631	No
43	GOM_TRA_1PNPDE20100705_042750_000000422090_00491_43631_4427.N1	05-JUL-2010 04:27:50	Bright	42.000	89	5Alp Cep	2.4510	8000.0	84	43631	No
44	GOM_TRA_1PNPDE20100705_043519_000000492090_00491_43631_4436.N1	05-JUL-2010 04:35:19	Bright	49.000	74	11Bet Cas	2.2680	6600.0	98	43631	No
45	GOM_TRA_1PNPDE20100705_043704_000000432090_00491_43631_4437.N1	05-JUL-2010 04:37:04	Bright	43.000	110	37Del Cas	2.6780	8900.0	86	43631	No
46	GOM_TRA_1PNPDE20100705_044346_000000532090_00491_43631_4438.N1	05-JUL-2010 04:43:46	Bright	52.500	73	57Gam1And	2.2600	13100.	105	43631	No
47	GOM_TRA_1PNPDE20100705_044623_000000772090_00491_43631_4439.N1	05-JUL-2010 04:46:23	Tw_i_and_stray	77.000	53	43Bet And	2.0480	3300.0	154	43631	No
48	GOM_TRA_1PNPDE20100705_045104_000000682090_00491_43631_4440.N1	05-JUL-2010 04:51:04	Dark	67.500	50	13Alp Ari	2.0070	4250.0	135	43631	No
49	GOM_TRA_1PNPDE20100705_051219_000000892090_00491_43631_4441.N1	05-JUL-2010 05:12:19	Dark	89.000	52	16Bet Cet	2.0370	4500.0	178	43631	No
50	GOM_TRA_1PNPDE20100705_051557_000000482090_00492_43632_4442.N1	05-JUL-2010 05:15:57	Dark	48.000	84	Alp Phe	2.3970	4500.0	96	43632	No
51	GOM_TRA_1PNPDE20100705_052221_000000522090_00492_43632_4443.N1	05-JUL-2010 05:22:21	Straylight	52.000	63	Bet Gru	2.1500	2800.0	104	43632	No
52	GOM_TRA_1PNPDE20100705_052437_000000892090_00492_43632_4444.N1	05-JUL-2010 05:24:37	Straylight	89.000	18	24Alp PsA	1.1660	9700.0	178	43632	No
53	GOM_TRA_1PNPDE20100705_052714_000000572090_00492_43632_4445.N1	05-JUL-2010 05:27:14	Straylight	57.000	172	Gam Gru	3.0030	13100.	114	43632	No
54	GOM_TRA_1PNPDE20100705_053812_000000452090_00492_43632_4446.N1	05-JUL-2010 05:38:12	Bright	44.500	155	41Pi Sgr	2.9000	6600.0	89	43632	No
55	GOM_TRA_1PNPDE20100705_055004_000000442090_00492_43632_4447.N1	05-JUL-2010 05:50:04	Bright	44.000	168	17Zet Aql	2.9860	11000.	88	43632	No
56	GOM_TRA_1PNPDE20100705_055707_000000452090_00492_43632_4448.N1	05-JUL-2010 05:57:07	Bright	44.500	5	3Alp Lyr	0.033000	11000.	89	43632	No
57	GOM_TRA_1PNPDE20100705_060116_000000482090_00492_43632_4449.N1	05-JUL-2010 06:01:16	Bright	47.500	144	18Del Cyg	2.8600	11000.	95	43632	No
58	GOM_TRA_1PNPDE20100705_060435_000000602090_00492_43632_4450.N1	05-JUL-2010 06:04:35	Bright	60.000	19	50Alp Cyg	1.2460	10500.	120	43632	No
59	GOM_TRA_1PNPDE20100705_060826_000000462090_00492_43632_4451.N1	05-JUL-2010 06:08:26	Bright	45.500	89	5Alp Cep	2.4510	8000.0	91	43632	No
60	GOM_TRA_1PNPDE20100705_203247_000000552090_00501_43641_4556.N1	05-JUL-2010 20:32:47	Straylight	55.000	172	Gam Gru	3.0030	13100.	110	43641	No
61	GOM_TRA_1PNPDE20100705_204336_000000442090_00501_43641_4557.N1	05-JUL-2010 20:43:36	Bright	43.500	155	41Pi Sgr	2.9000	6600.0	87	43641	No
62	GOM_TRA_1PNPDE20100705_205524_000000462090_00501_43641_4558.N1	05-JUL-2010 20:55:24	Bright	45.500	168	17Zet Aql	2.9860	11000.	91	43641	No
63	GOM_TRA_1PNPDE20100705_210226_000000402090_00501_43641_4559.N1	05-JUL-2010 21:02:26	Bright	39.500	5	3Alp Lyr	0.033000	11000.	79	43641	No
64	GOM_TRA_1PNPDE20100705_210633_000000472090_00501_43641_4560.N1	05-JUL-2010 21:06:33	Bright	47.000	144	18Del Cyg	2.8600	11000.	94	43641	No
65	GOM_TRA_1PNPDE20100705_210948_000000542090_00501_43641_4561.N1	05-JUL-2010 21:09:48	Bright	54.000	19	50Alp Cyg	1.2460	10500.	108	43641	No
66	GOM_TRA_1PNPDE20100705_211343_000000462090_00501_43641_4562.N1	05-JUL-2010 21:13:43	Bright	46.000	89	5Alp Cep	2.4510	8000.0	92	43641	No
67	GOM_TRA_1PNPDE20100705_212112_000000482090_00501_43641_4563.N1	05-JUL-2010 21:21:12	Bright	48.000	74	11Bet Cas	2.2680	6600.0	96	43641	No
68	GOM_TRA_1PNPDE20100705_212259_000000442090_00501_43641_4564.N1	05-JUL-2010 21:22:59	Bright	44.000	110	37Del Cas	2.6780	8900.0	88	43641	No
69	GOM_TRA_1PNPDE20100705_212945_000000542090_00501_43641_4565.N1	05-JUL-2010 21:29:45	Bright	53.500	73	57Gam1And	2.2600	13100.	107	43641	No
70	GOM_TRA_1PNPDE20100705_213223_000000792090_00501_43641_4566.N1	05-JUL-2010 21:32:23	Tw_i_and_stray	78.500	53	43Bet And	2.0480	3300.0	157	43641	No
71	GOM_TRA_1PNPDE20100705_213707_000000672090_00501_43641_4567.N1	05-JUL-2010 21:37:07	Dark	66.500	50	13Alp Ari	2.0070	4250.0	133	43641	No

72	GOM_TRA_1PNPDE20100705_221323_000000552091_00001_43642_4573.N1	05-JUL-2010 22:13:23	Straylight	55.000	172	Gam Gru	3.0030	13100.	110	43642	No
73	GOM_TRA_1PNPDE20100705_222412_000000442091_00001_43642_4574.N1	05-JUL-2010 22:24:12	Bright	43.500	155	41Pi Sgr	2.9000	6600.0	87	43642	No
74	GOM_TRA_1PNPDE20100705_223559_000000452091_00001_43642_4575.N1	05-JUL-2010 22:35:59	Bright	44.500	168	17Zet Aql	2.9860	11000.	89	43642	No
75	GOM_TRA_1PNPDE20100705_224302_000000422091_00001_43642_4576.N1	05-JUL-2010 22:43:02	Bright	42.000	5	3Alp Lyr	0.033000	11000.	84	43642	No
76	GOM_TRA_1PNPDE20100705_224708_000000482091_00001_43642_4577.N1	05-JUL-2010 22:47:08	Bright	47.500	144	18Del Cyg	2.8600	11000.	95	43642	No
77	GOM_TRA_1PNPDE20100705_225023_000000552091_00001_43642_4578.N1	05-JUL-2010 22:50:23	Bright	55.000	19	50Alp Cyg	1.2460	10500.	110	43642	No
78	GOM_TRA_1PNPDE20100705_225418_000000462091_00001_43642_4579.N1	05-JUL-2010 22:54:18	Bright	46.000	89	5Alp Cep	2.4510	8000.0	92	43642	No
79	GOM_TRA_1PNPDE20100705_230147_000000462091_00001_43642_4580.N1	05-JUL-2010 23:01:47	Bright	46.000	74	11Bet Cas	2.2680	6600.0	92	43642	No
80	GOM_TRA_1PNPDE20100705_230335_000000422091_00001_43642_4581.N1	05-JUL-2010 23:03:35	Bright	41.500	110	37Del Cas	2.6780	8900.0	83	43642	No
81	GOM_TRA_1PNPDE20100705_231020_000000552091_00001_43642_4582.N1	05-JUL-2010 23:10:20	Bright	55.000	73	57Gam1And	2.2600	13100.	110	43642	No
82	GOM_TRA_1PNPDE20100705_231258_000000792091_00001_43642_4583.N1	05-JUL-2010 23:12:58	Twilight_stray	79.000	53	43Bet And	2.0480	3300.0	158	43642	No
83	GOM_TRA_1PNPDE20100705_231743_000000622091_00001_43642_4584.N1	05-JUL-2010 23:17:43	Dark	62.000	50	13Alp Ari	2.0070	4250.0	124	43642	No
84	GOM_TRA_1PNPDE20100705_233918_000001012091_00001_43642_4585.N1	05-JUL-2010 23:39:18	Dark	100.50	52	16Bet Cet	2.0370	4500.0	201	43642	No
85	GOM_TRA_1PNPDE20100705_234244_000000492091_00002_43643_4586.N1	05-JUL-2010 23:42:44	Dark	49.000	84	Alp Phe	2.3970	4500.0	98	43643	No
86	GOM_TRA_1PNPDE20100705_234907_000000622091_00002_43643_4587.N1	05-JUL-2010 23:49:07	Straylight	62.000	63	Bet Gru	2.1500	2800.0	124	43643	No
87	GOM_TRA_1PNPDE20100705_235131_000000862091_00002_43643_4588.N1	05-JUL-2010 23:51:31	Straylight	85.500	18	24Alp PsA	1.1660	9700.0	171	43643	No
88	GOM_TRA_1PNPDE20100705_235400_000000562091_00002_43643_4589.N1	05-JUL-2010 23:54:00	Straylight	55.500	172	Gam Gru	3.0030	13100.	111	43643	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

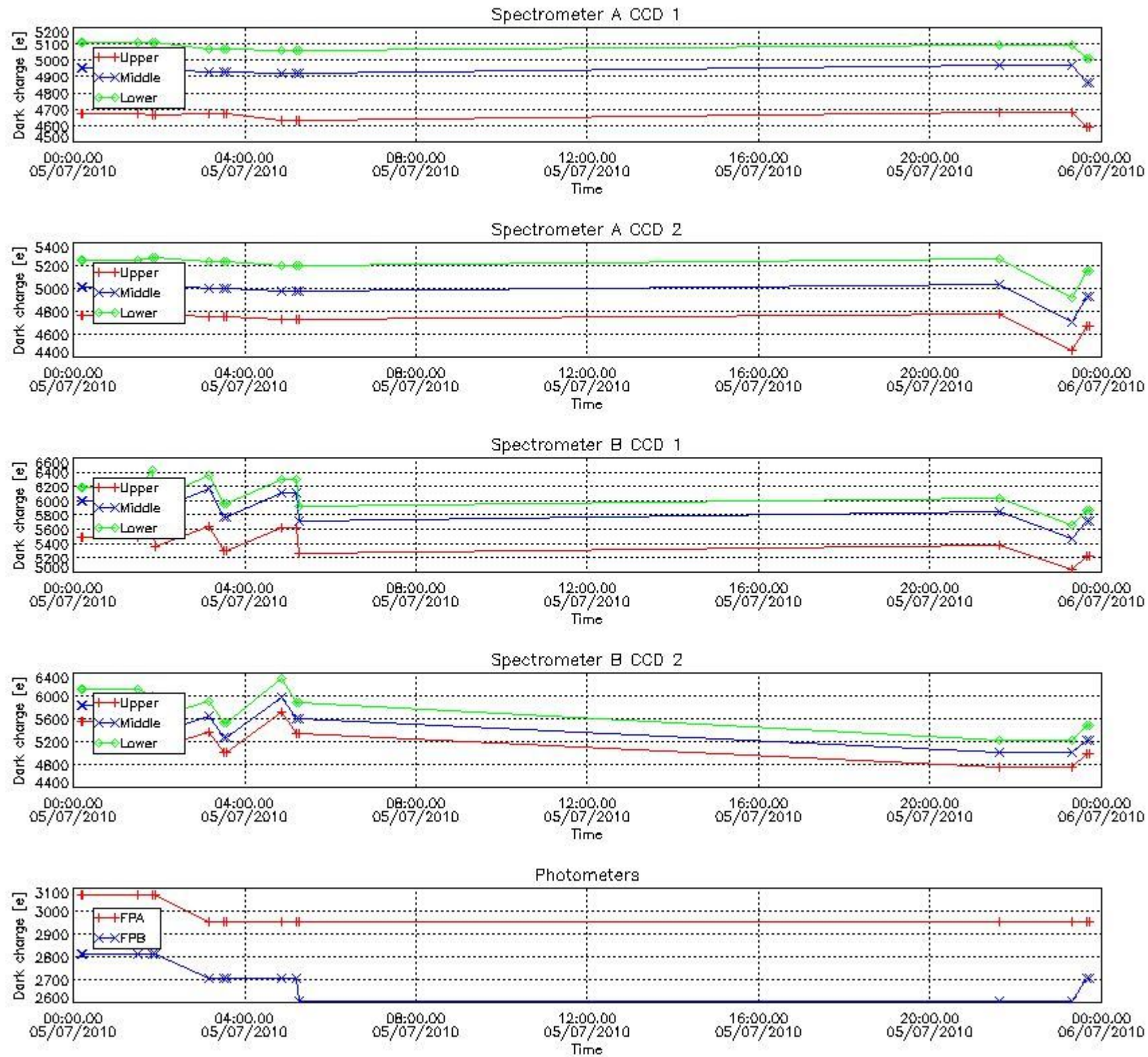
the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

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_1PNPDE20100705_203247_000000552090_00501_43641_4556.N1	DC map used
GOM_TRA_1PNPDE20100705_204336_000000442090_00501_43641_4557.N1	DC map used
GOM_TRA_1PNPDE20100705_205524_000000462090_00501_43641_4558.N1	DC map used
GOM_TRA_1PNPDE20100705_210226_000000402090_00501_43641_4559.N1	DC map used
GOM_TRA_1PNPDE20100705_210633_000000472090_00501_43641_4560.N1	DC map used
GOM_TRA_1PNPDE20100705_210948_000000542090_00501_43641_4561.N1	DC map used
GOM_TRA_1PNPDE20100705_211343_000000462090_00501_43641_4562.N1	DC map used
GOM_TRA_1PNPDE20100705_212112_000000482090_00501_43641_4563.N1	DC map used
GOM_TRA_1PNPDE20100705_212259_000000442090_00501_43641_4564.N1	DC map used
GOM_TRA_1PNPDE20100705_212945_000000542090_00501_43641_4565.N1	DC map used
GOM_TRA_1PNPDE20100705_213223_000000792090_00501_43641_4566.N1	DC map used
GOM_TRA_1PNPDE20100705_213707_000000672090_00501_43641_4567.N1	DC map used
GOM_TRA_1PNPDE20100705_221323_000000552091_00001_43642_4573.N1	DC map with no T dep.
GOM_TRA_1PNPDE20100705_222412_000000442091_00001_43642_4574.N1	DC map used
GOM_TRA_1PNPDE20100705_223559_000000452091_00001_43642_4575.N1	DC map used
GOM_TRA_1PNPDE20100705_224302_000000422091_00001_43642_4576.N1	DC map used
GOM_TRA_1PNPDE20100705_224708_000000482091_00001_43642_4577.N1	DC map used
GOM_TRA_1PNPDE20100705_225023_000000552091_00001_43642_4578.N1	DC map used
GOM_TRA_1PNPDE20100705_225418_000000462091_00001_43642_4579.N1	DC map used
GOM_TRA_1PNPDE20100705_230147_000000462091_00001_43642_4580.N1	DC map used
GOM_TRA_1PNPDE20100705_230335_000000422091_00001_43642_4581.N1	DC map used
GOM_TRA_1PNPDE20100705_231020_000000552091_00001_43642_4582.N1	DC map used
GOM_TRA_1PNPDE20100705_231258_000000792091_00001_43642_4583.N1	DC map used
GOM_TRA_1PNPDE20100705_231743_000000622091_00001_43642_4584.N1	DC map used

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



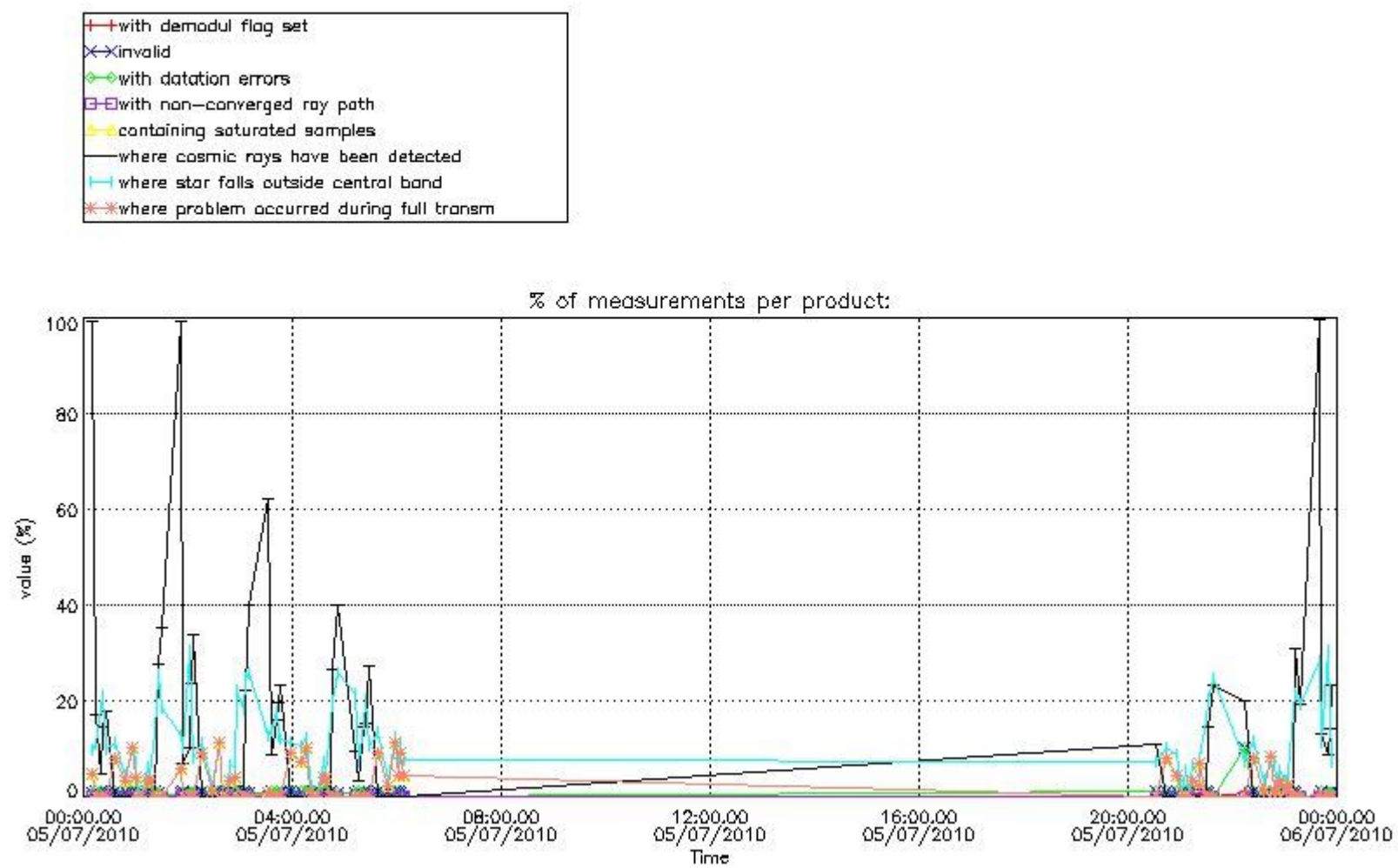
5. Demodulation flag and quality information monitoring

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.

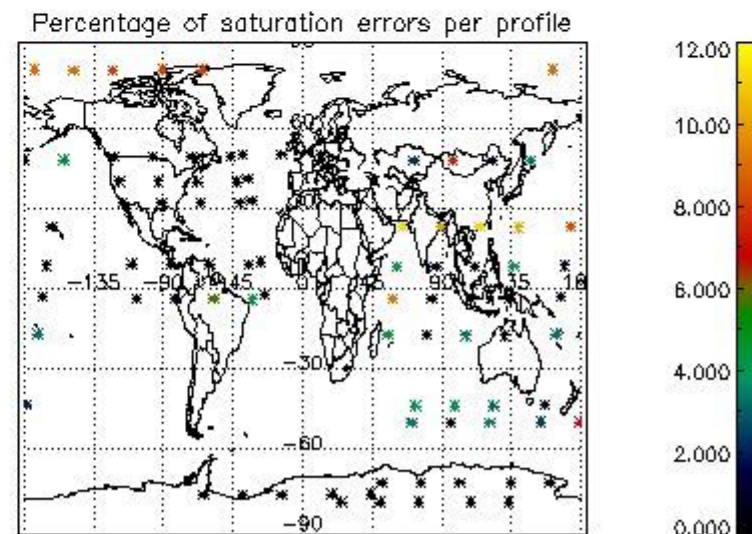
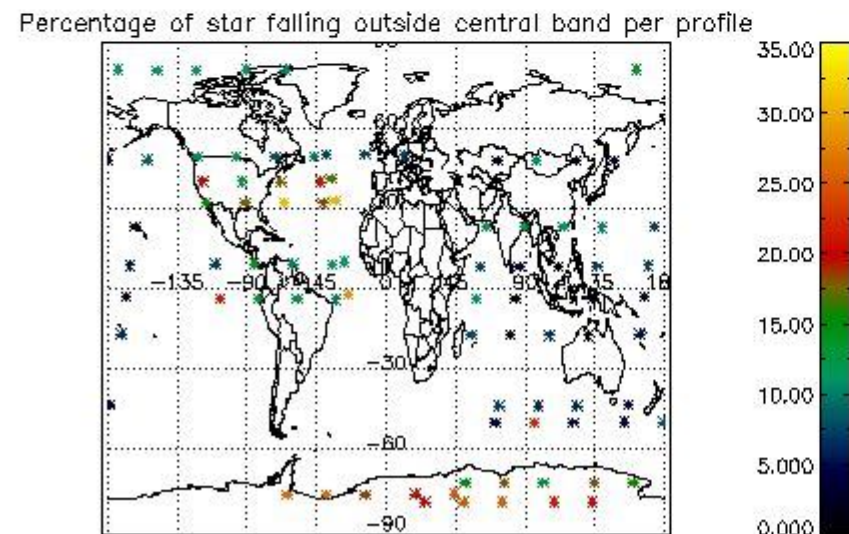
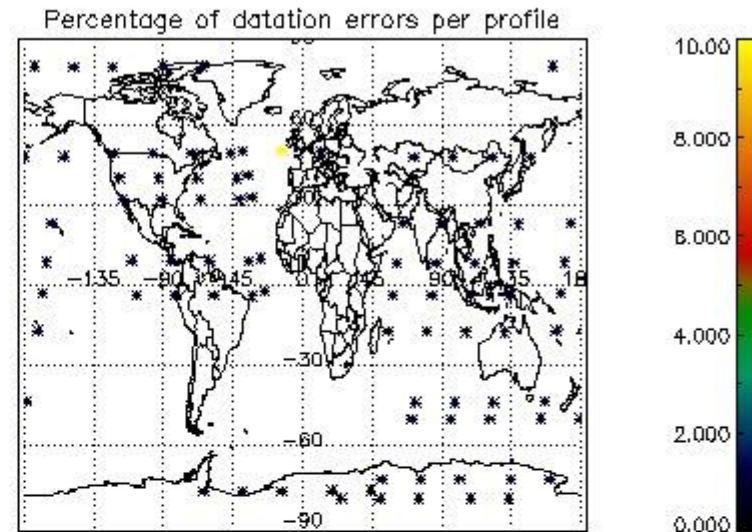
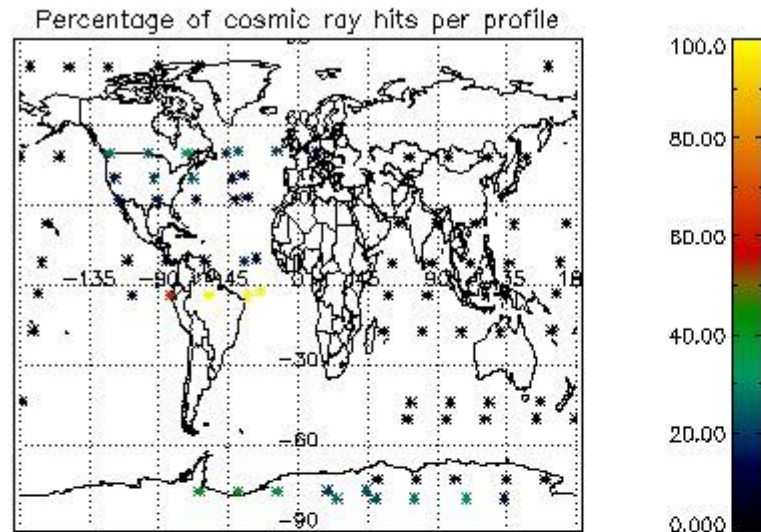
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	37.5000 %
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)



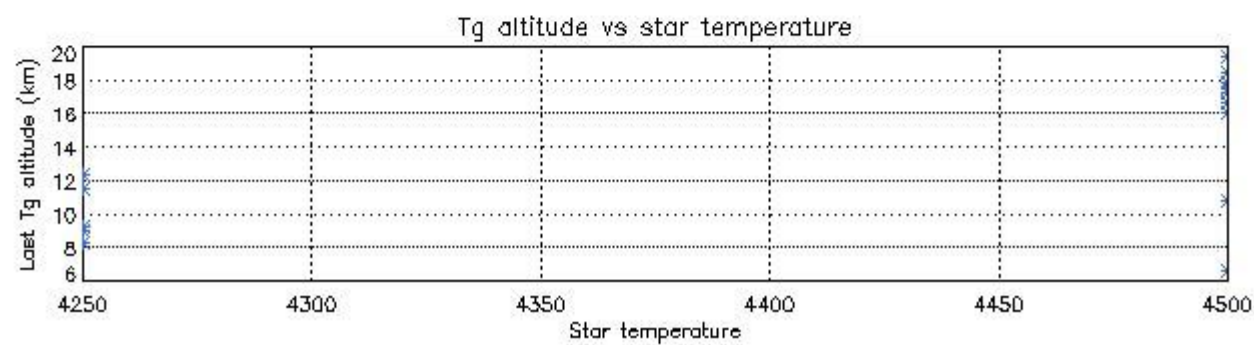
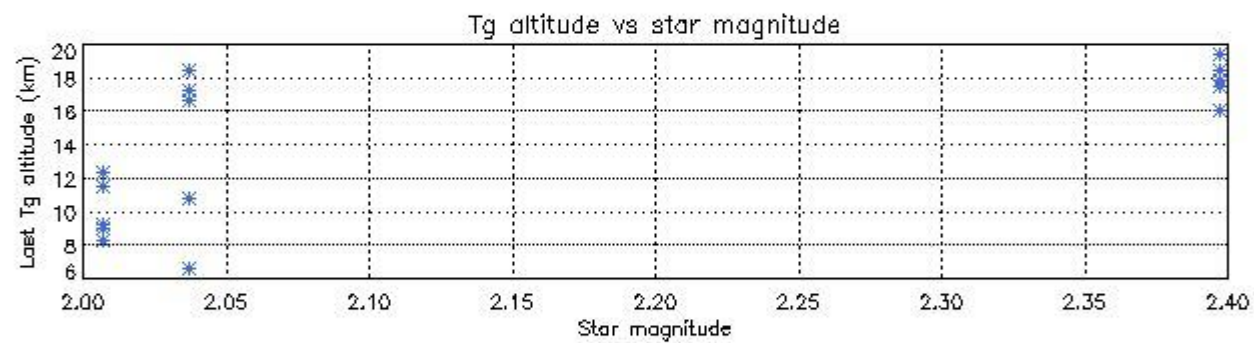
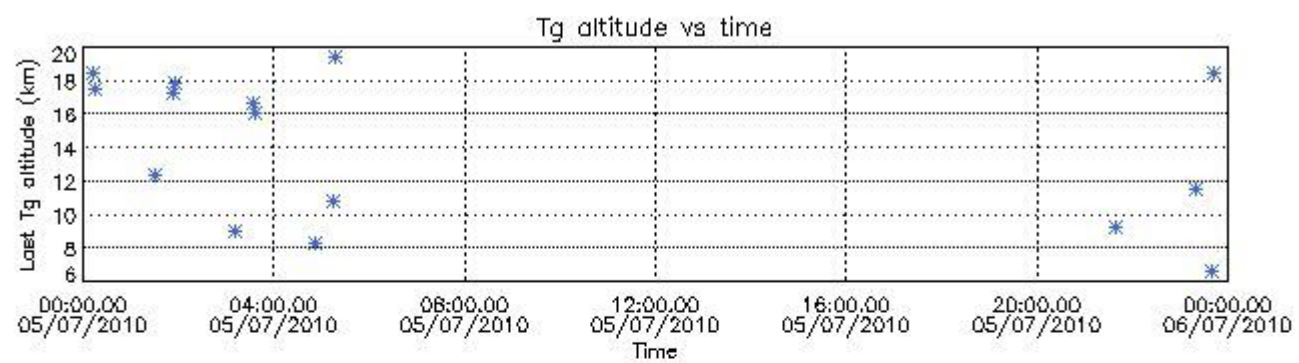
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.950	20.535	NaN
St. deviation:	4.3997	4.1092	NaN
Maximum:	19.370	28.807	NaN
Minimum:	6.6326	11.720	NaN
Number of data:	15.000	51.000	NaN

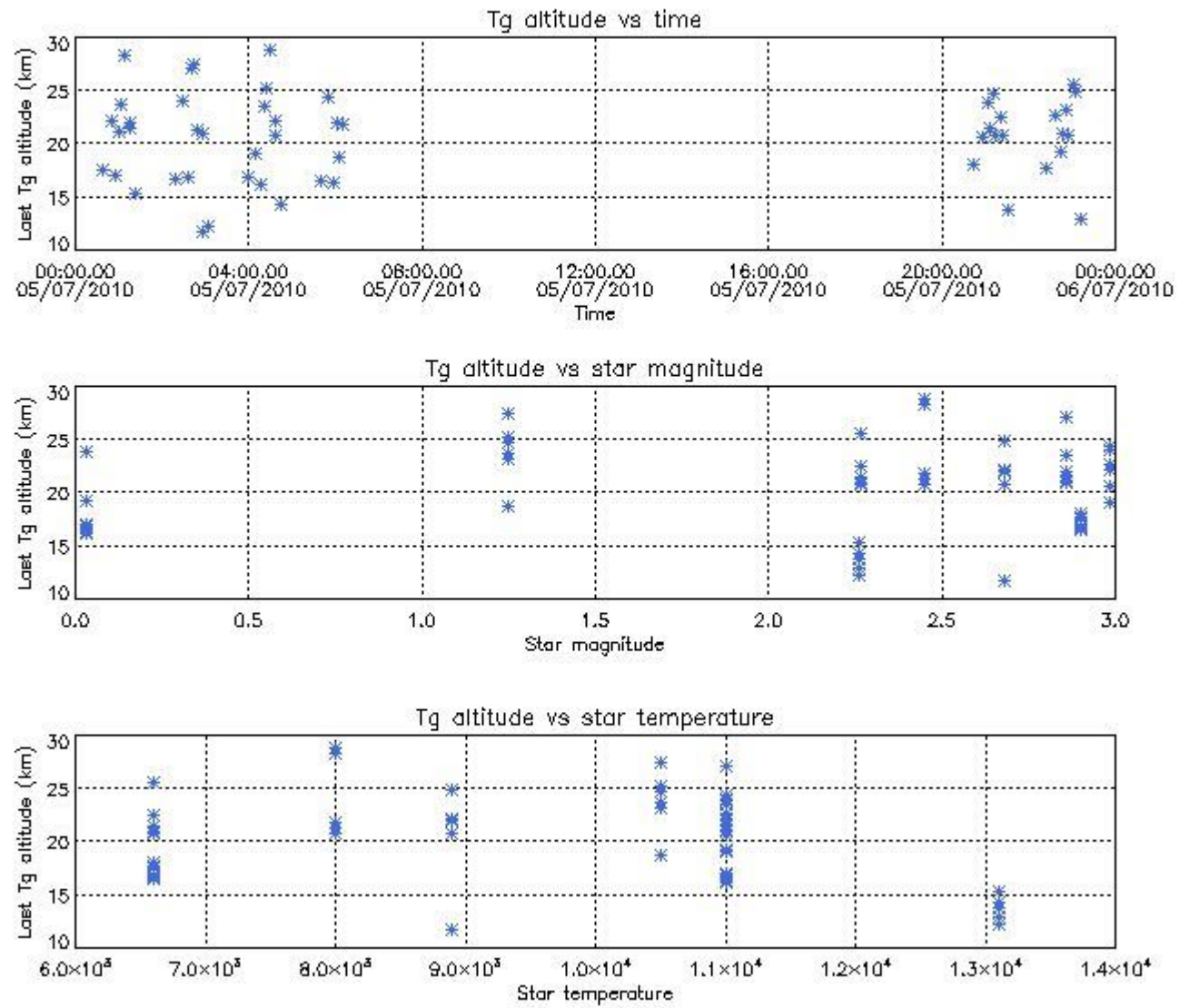
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

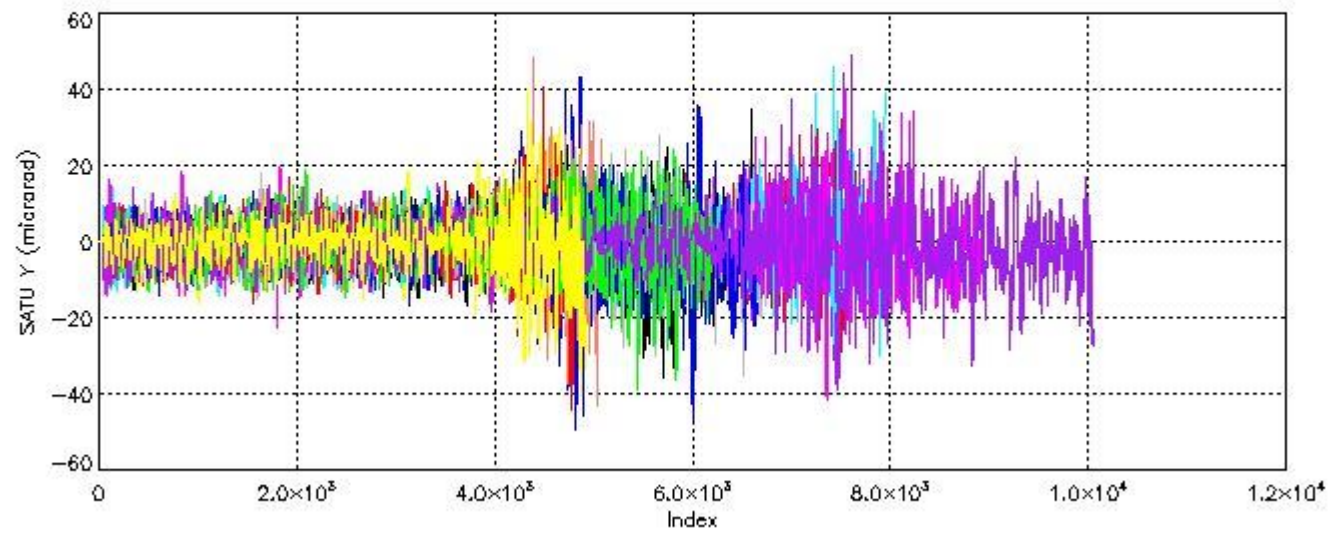
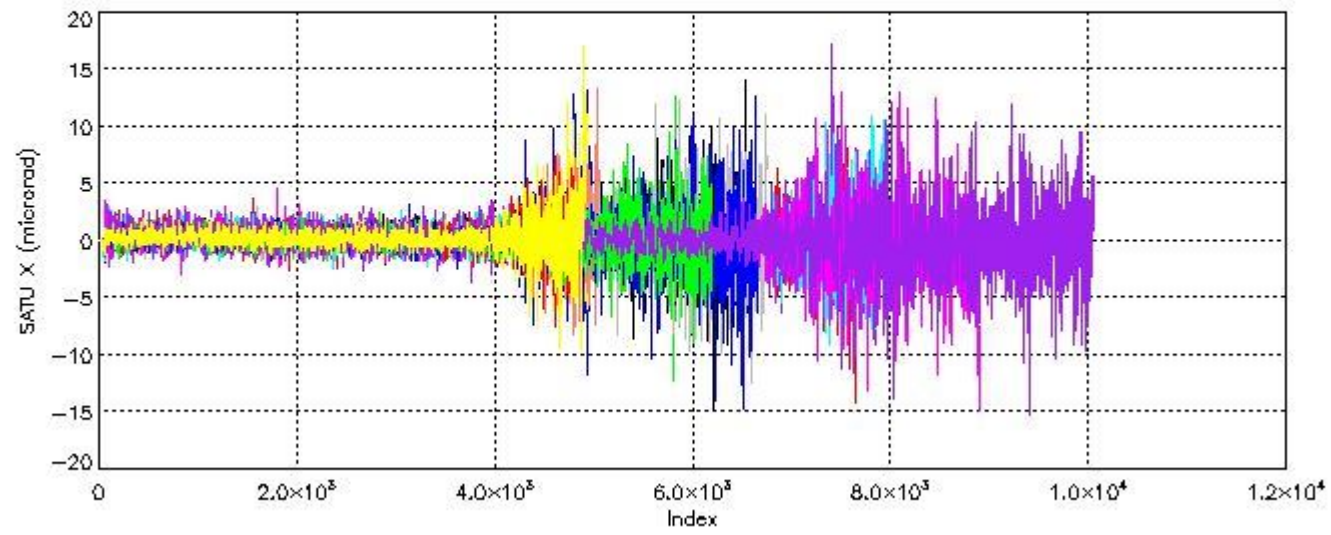


7. Star Acquisition and Tracking Unit (SATU)

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:	0.29267	-0.41225	0.23489	-0.46602
St. deviation:	0.56922	4.4840	0.94775	4.0863
Maximum:	3.6000	18.600	6.3000	16.400
Minimum:	-2.9000	-16.500	-5.5000	-17.300

Number of data:	20500.	20500.	58500.	58500.
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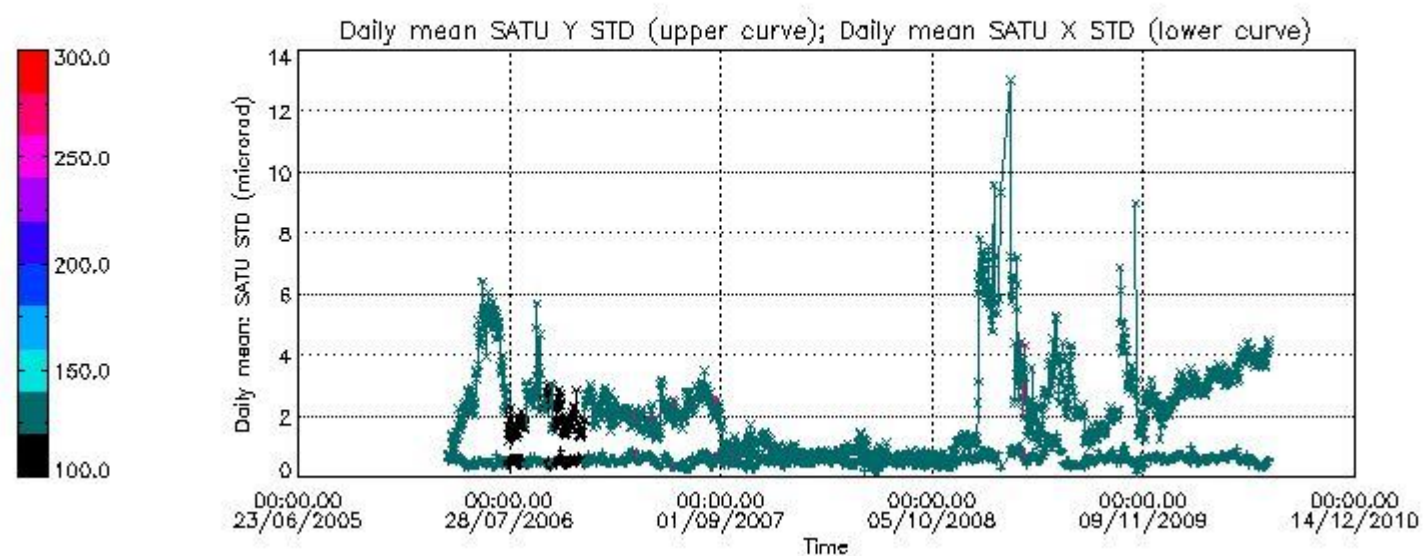
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

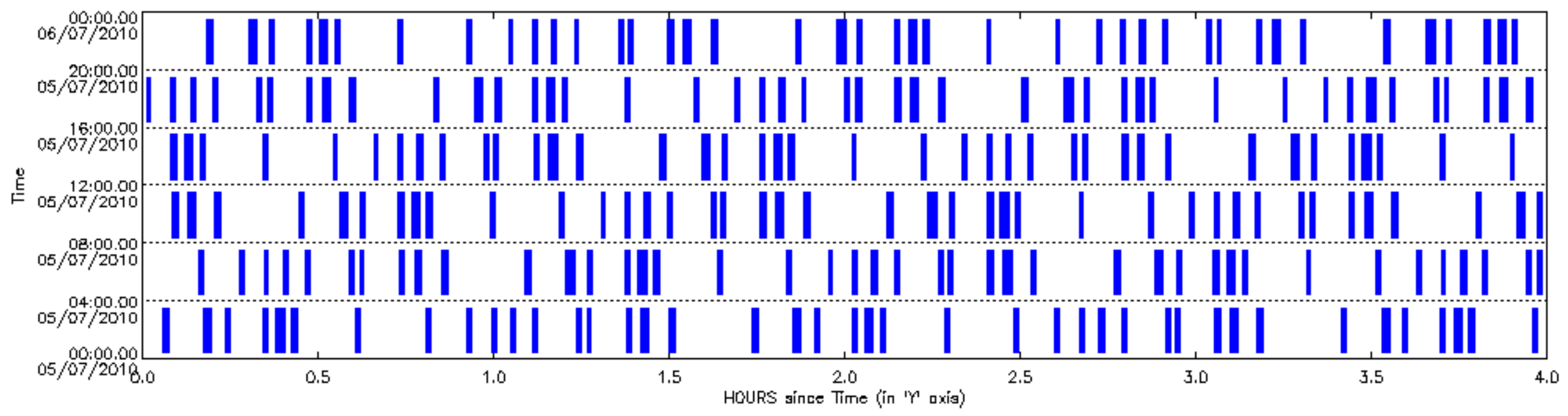
Lower curve: STD of SATU X axis

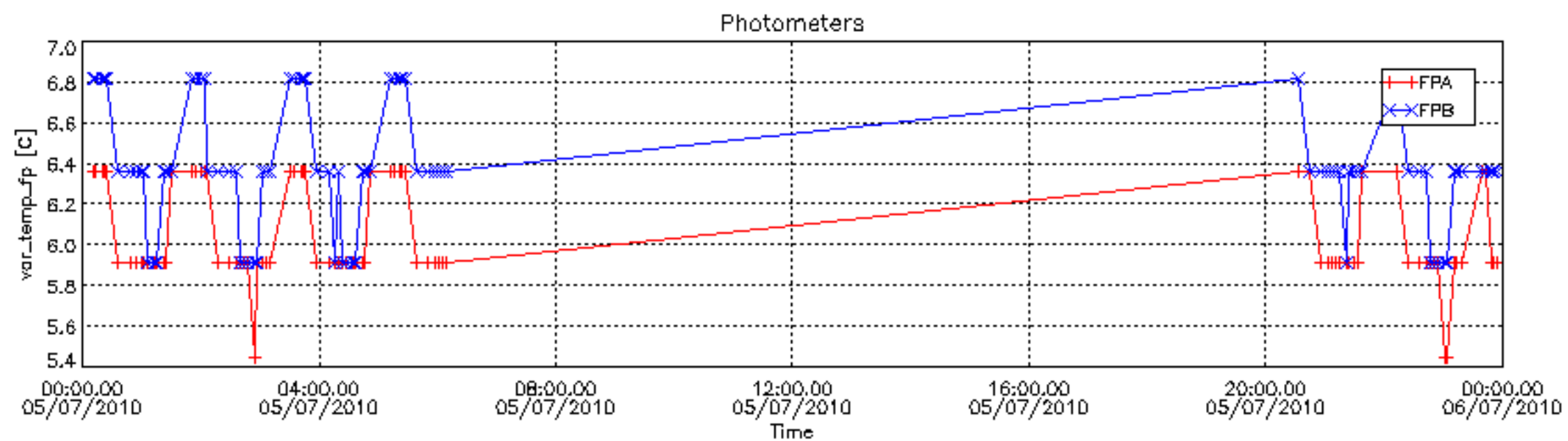
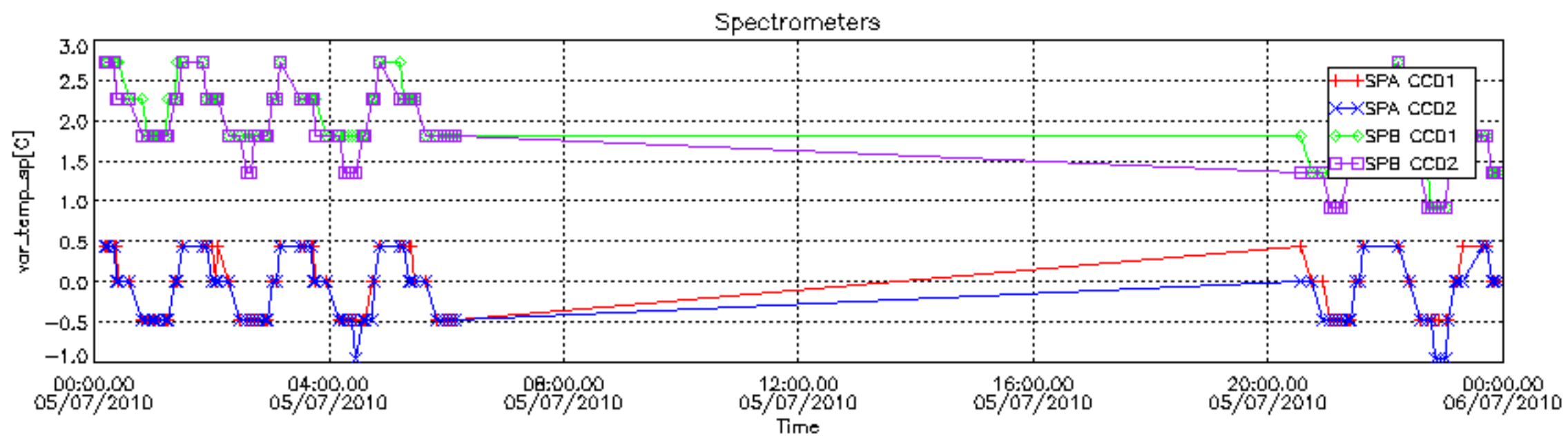


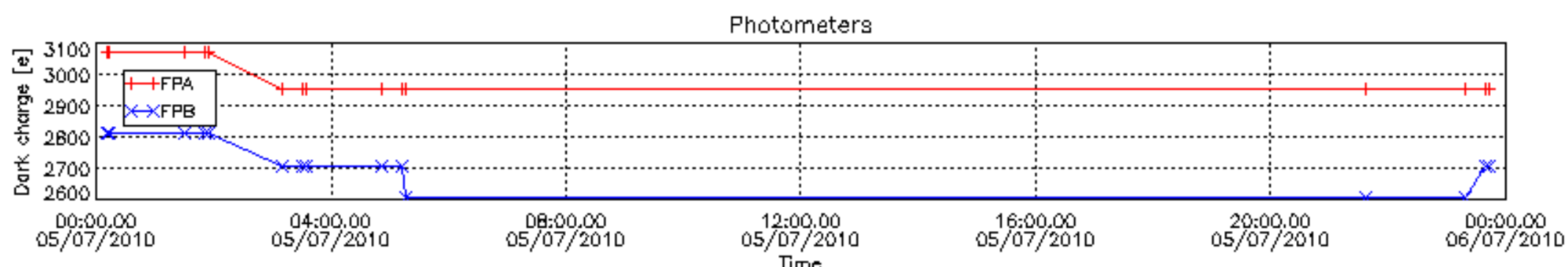
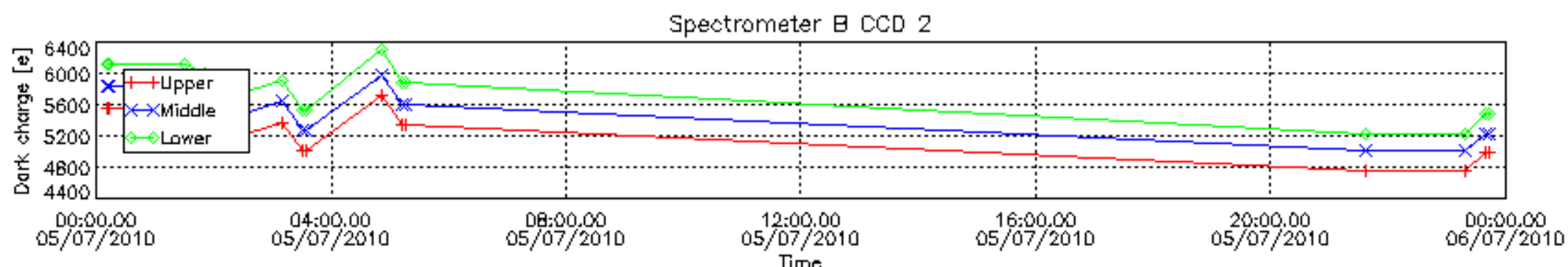
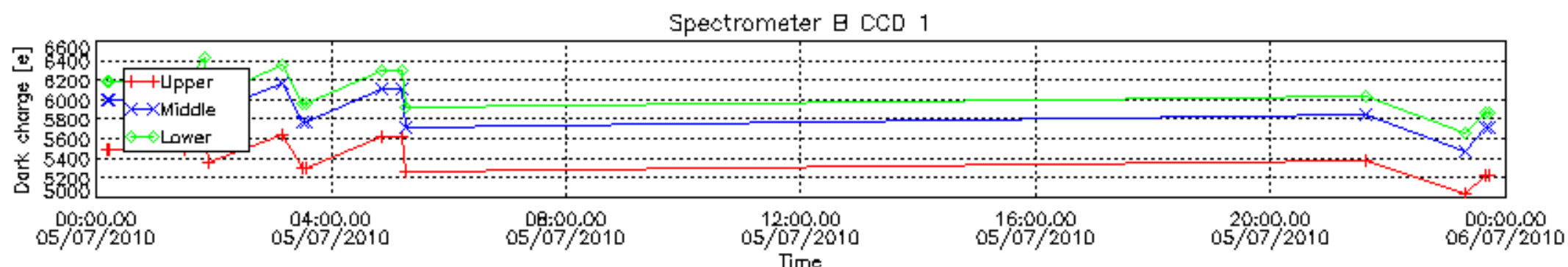
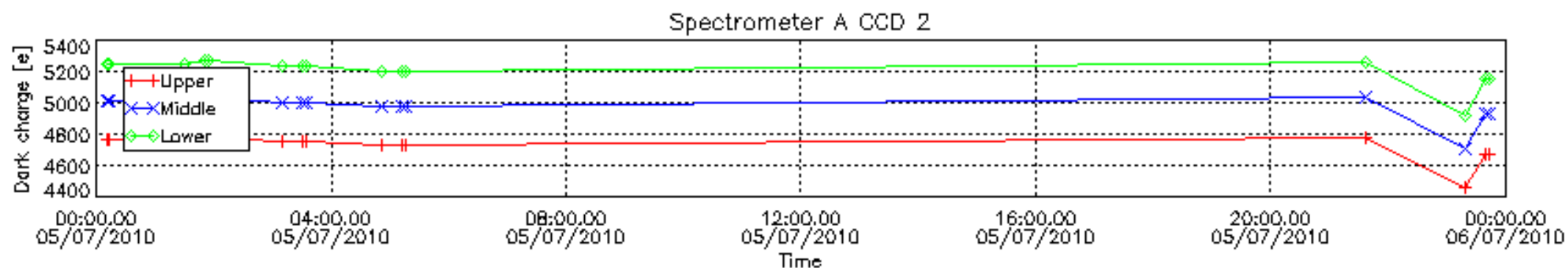
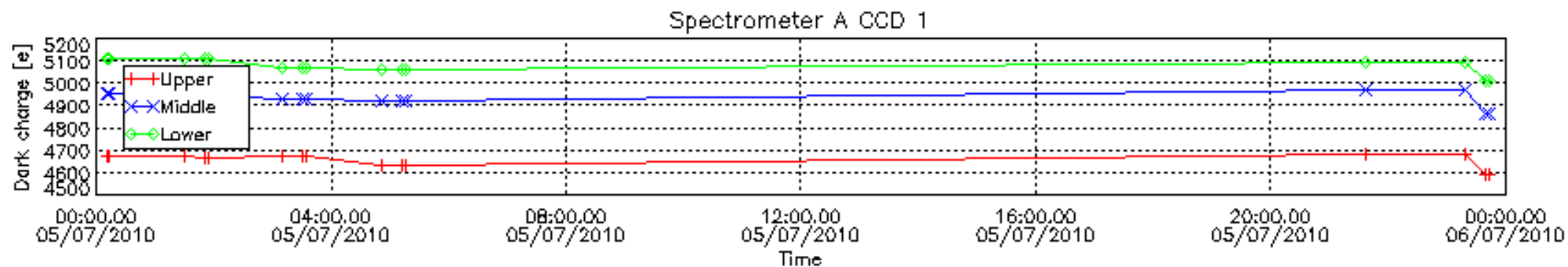
8. Auxiliary Data Files used for the production reported in section 2.4

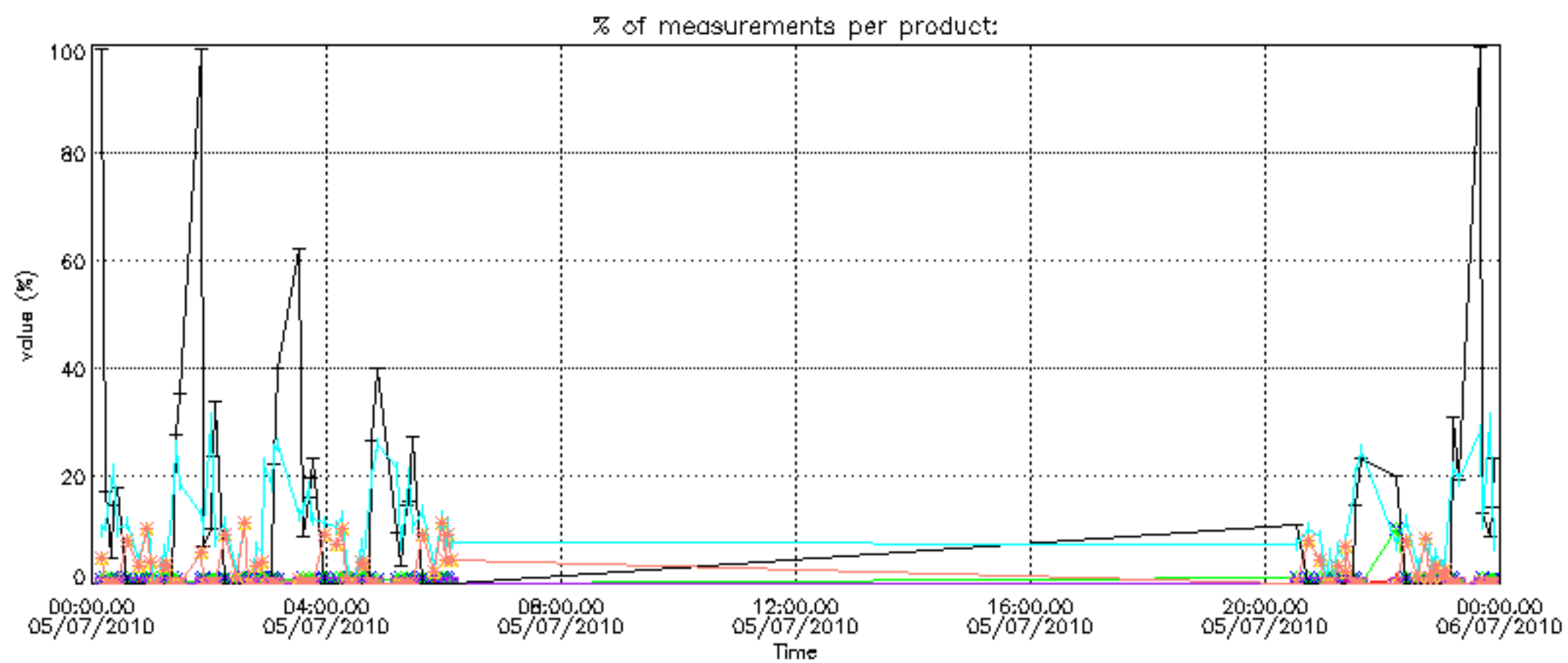
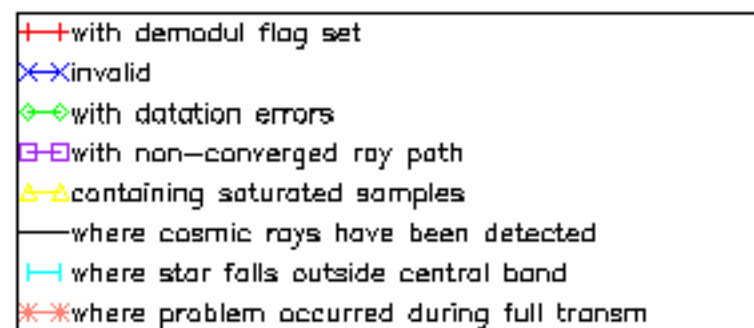
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	05-JUL-2010 00:10:25
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100629_101415_20100627_000000_20500101_000000	1	05-JUL-2010 00:10:25
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	05-JUL-2010 00:10:25
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	05-JUL-2010 00:10:25
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	05-JUL-2010 00:10:25
ECMWF_FILE	AUX_ECF_AXNECM20100704_054115_20100704_210000_20100705_090000	1	05-JUL-2010 00:10:25
ECMWF_FILE	AUX_ECA_AXNECM20100705_052112_20100704_210000_20100705_090000	44	05-JUL-2010 04:35:19
ECMWF_FILE	AUX_ECF_AXNECM20100705_052113_20100705_150000_20100706_030000	60	05-JUL-2010 20:32:47
ECMWF_FILE	AUX_ECF_AXNECM20100705_054113_20100705_210000_20100706_090000	72	05-JUL-2010 22:13:23
OPTIONAL_ECMWF_FILE	MISSING	1	05-JUL-2010 00:10:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100704_235808_000054192090_00488_43628_0684.N1	1	05-JUL-2010 00:10:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100705_013346_000041442090_00489_43629_0685.N1	17	05-JUL-2010 01:51:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100705_024809_000057382090_00490_43630_0686.N1	28	05-JUL-2010 02:54:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100705_042906_000057382090_00491_43631_0687.N1	44	05-JUL-2010 04:35:19
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100705_203047_000041442090_00501_43641_0688.N1	60	05-JUL-2010 20:32:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100705_221144_000041442091_00001_43642_0689.N1	72	05-JUL-2010 22:13:23
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100705_232607_000047822091_00001_43642_0690.N1	84	05-JUL-2010 23:39:18

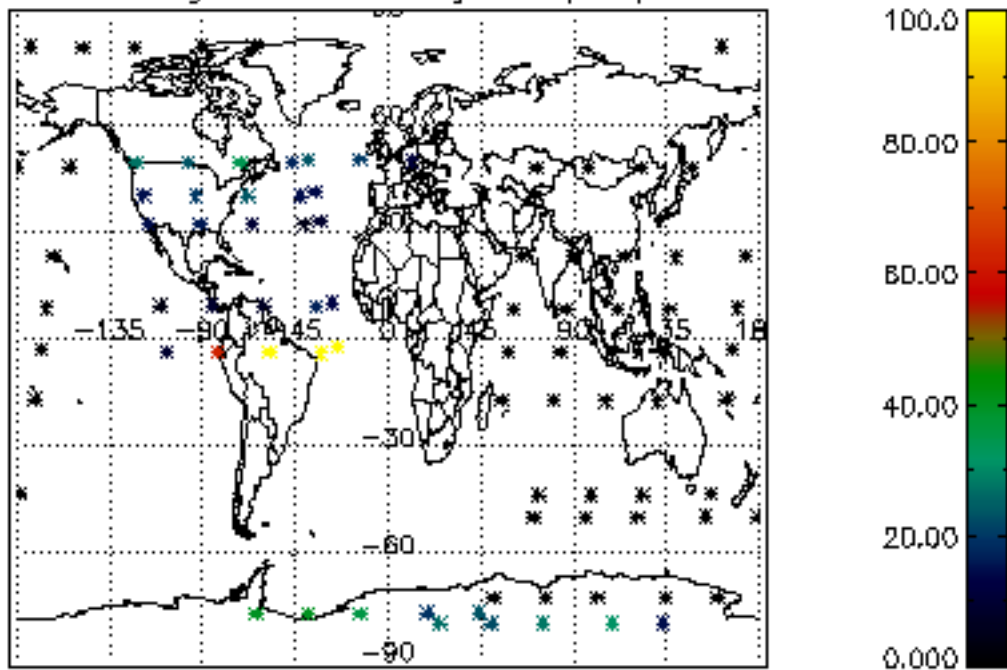




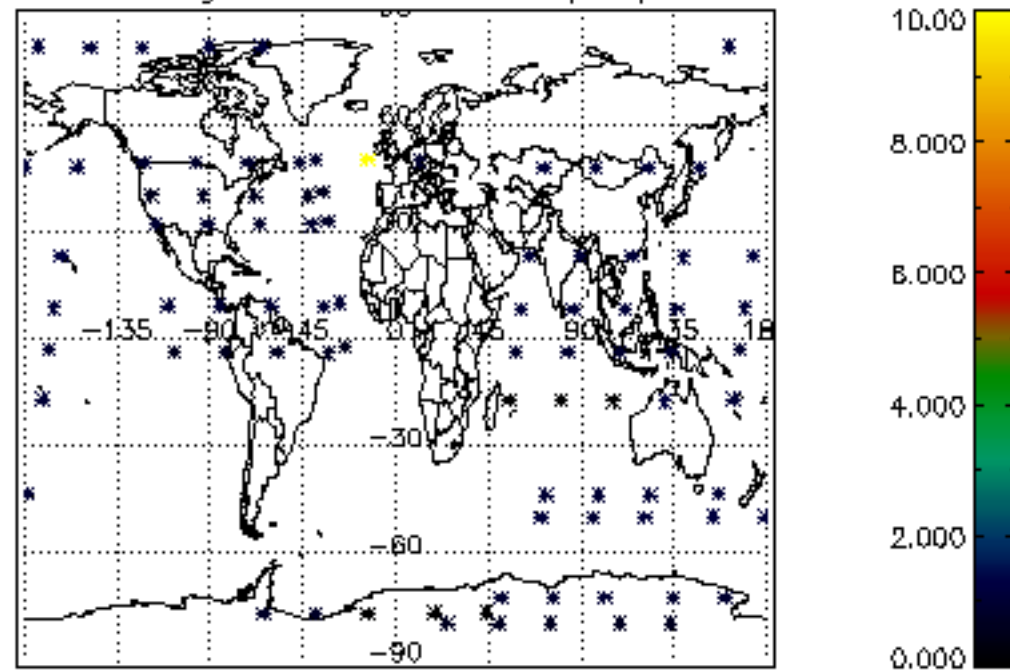




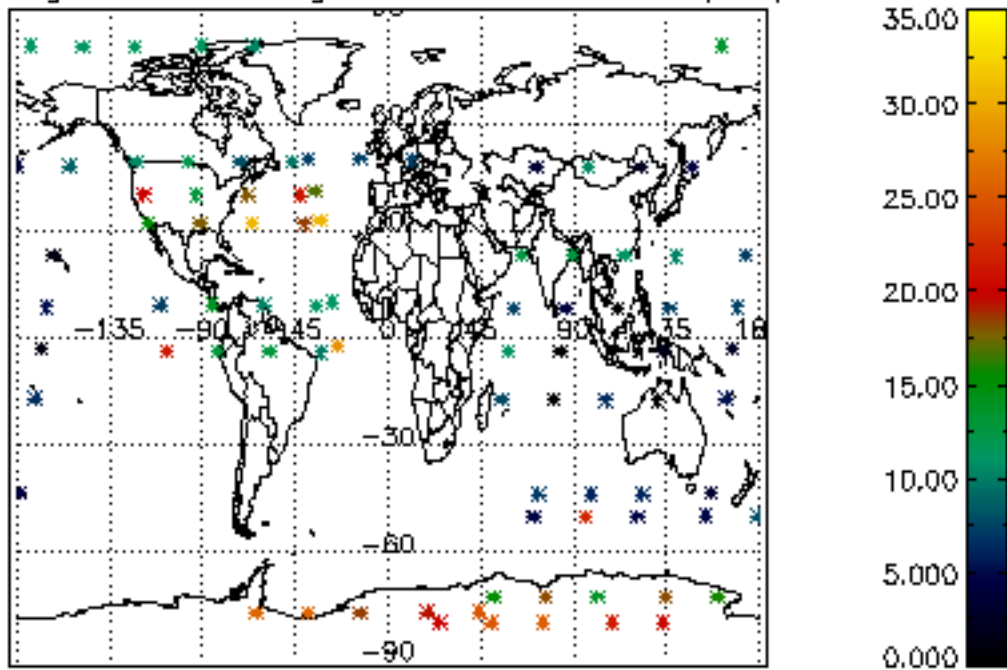
Percentage of cosmic ray hits per profile



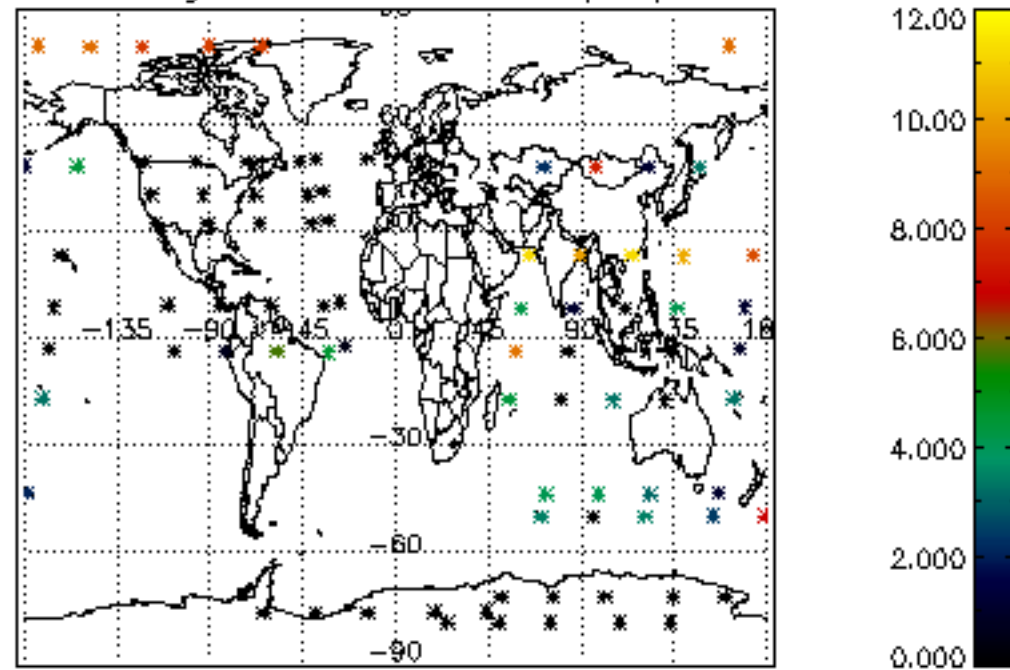
Percentage of datation errors per profile



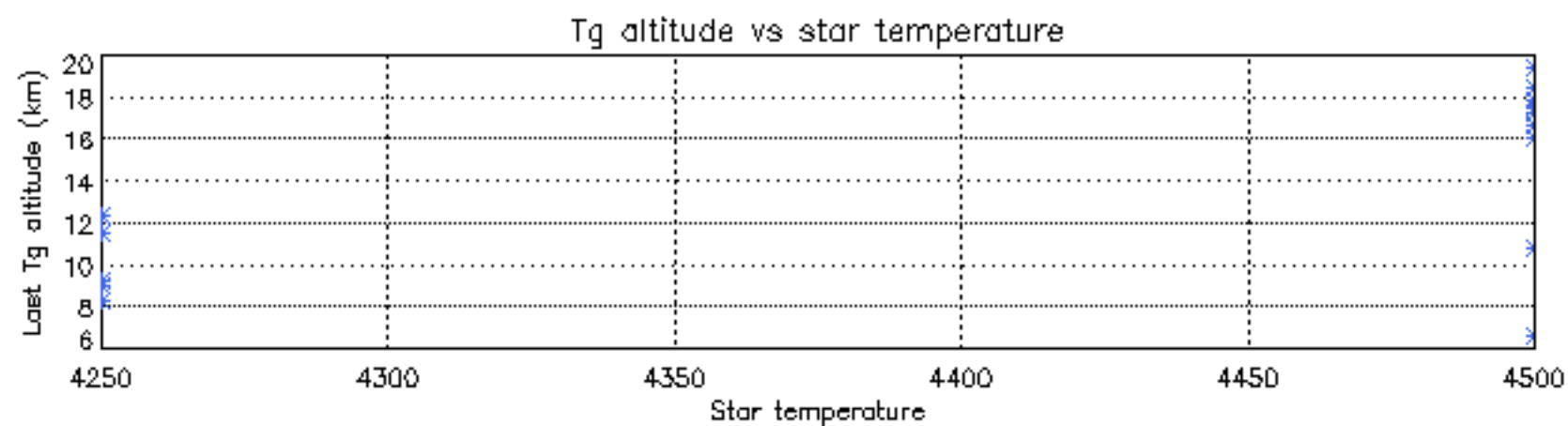
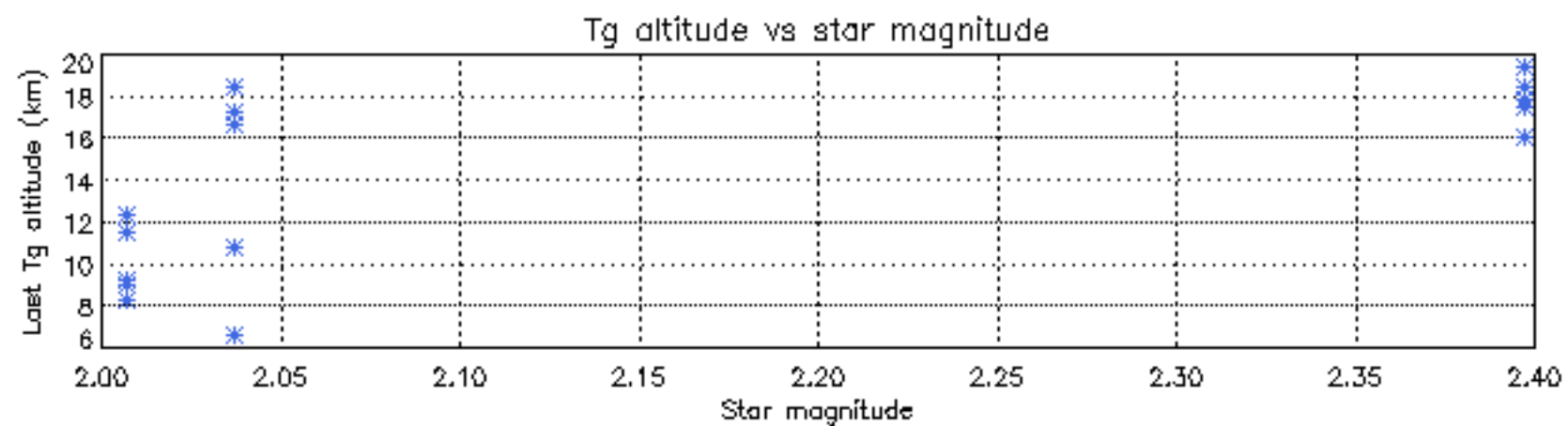
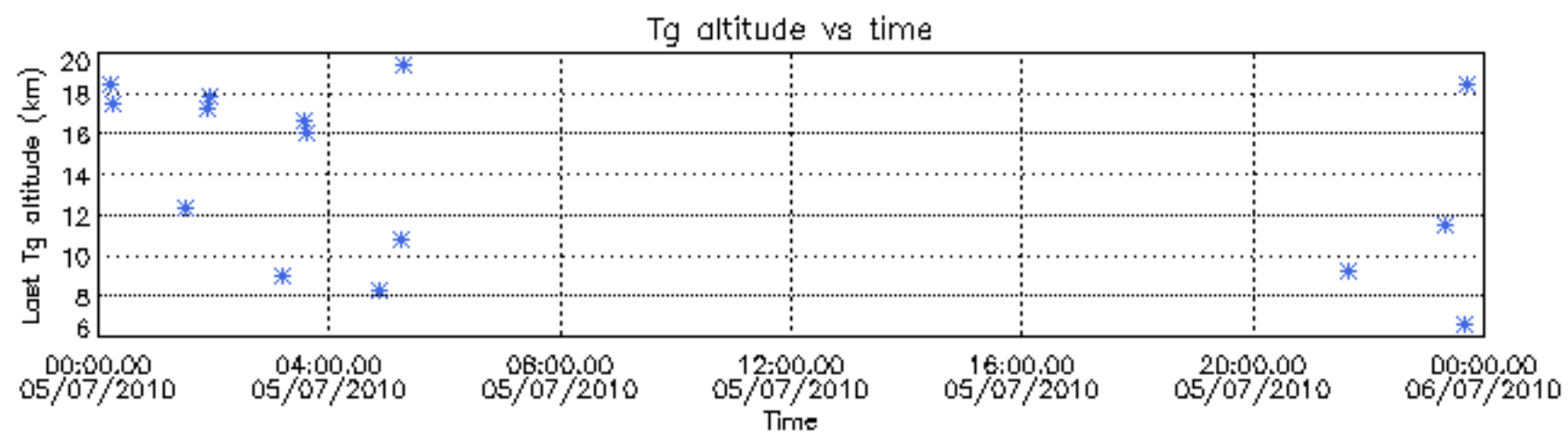
Percentage of star falling outside central band per profile



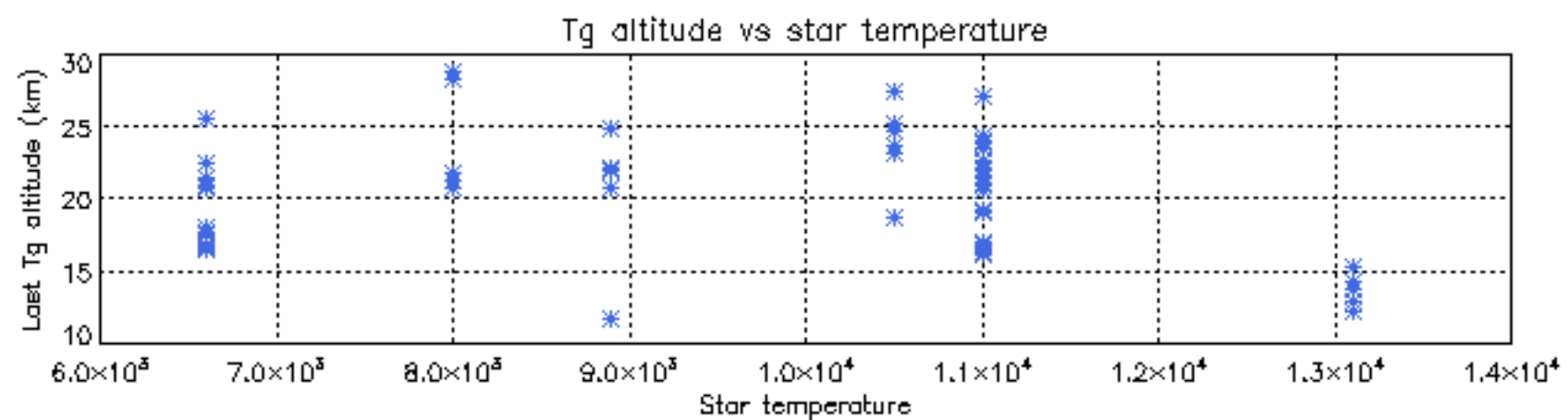
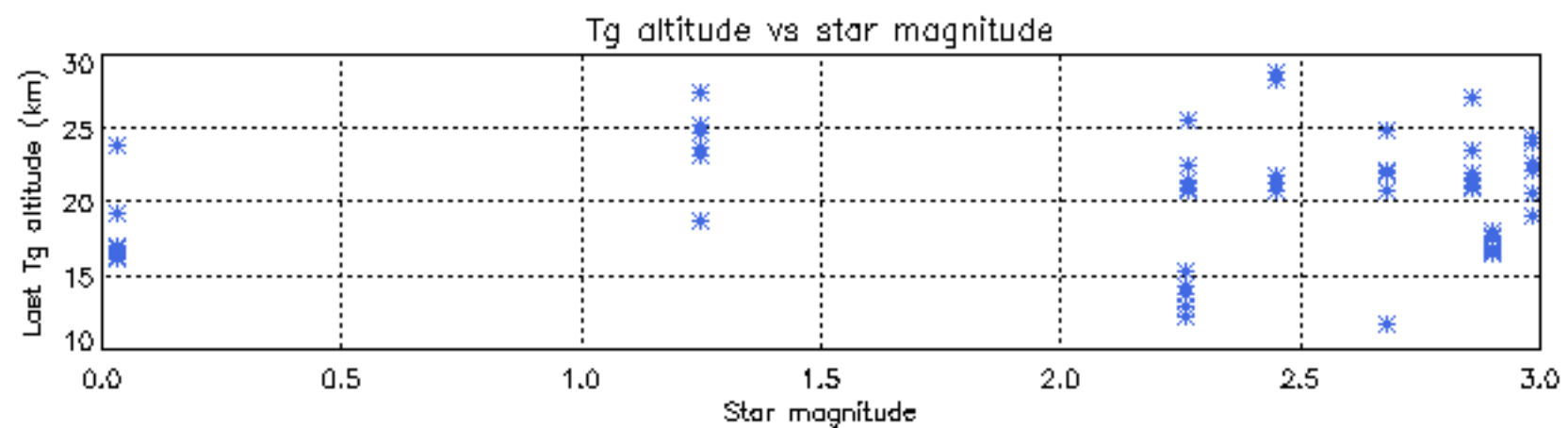
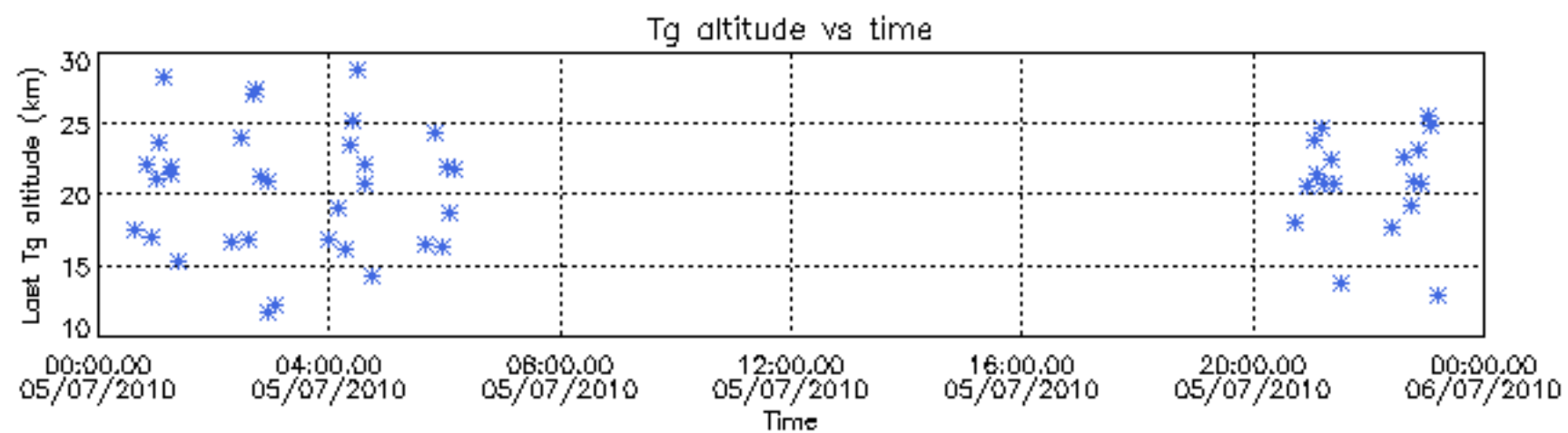
Percentage of saturation errors per profile

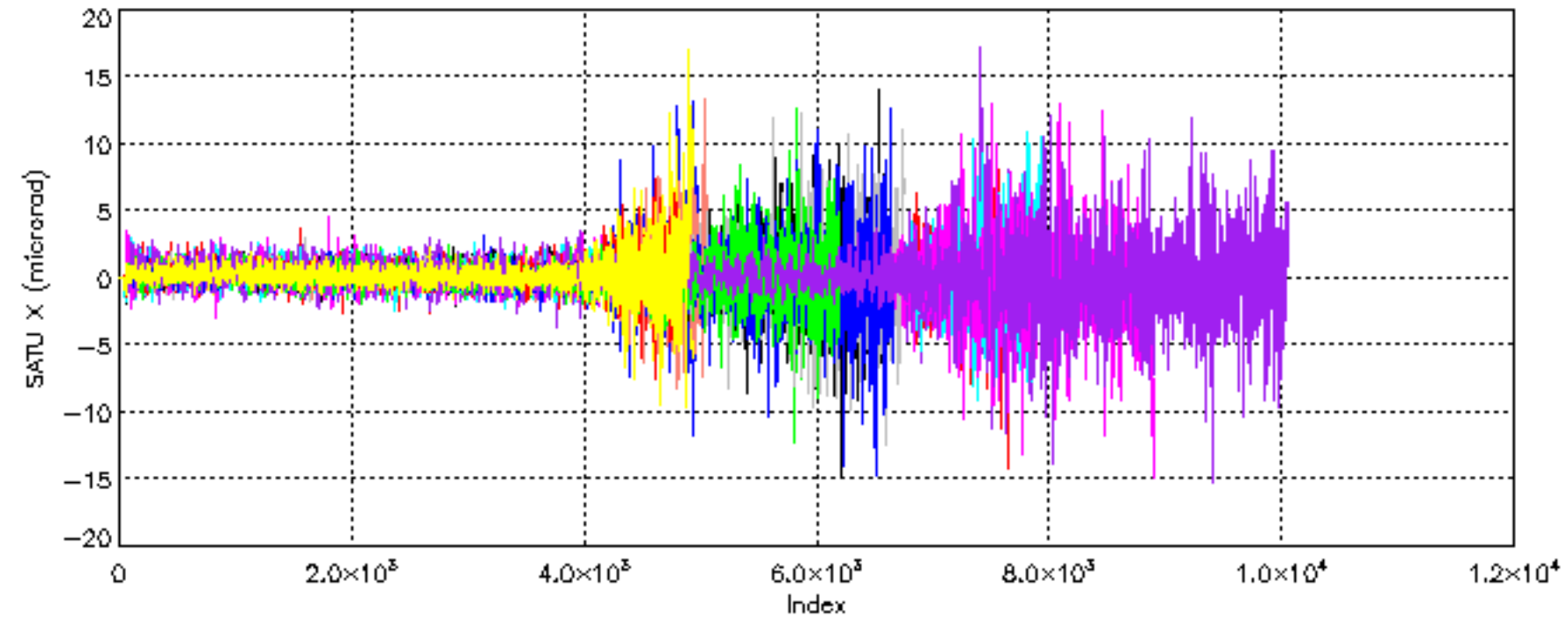


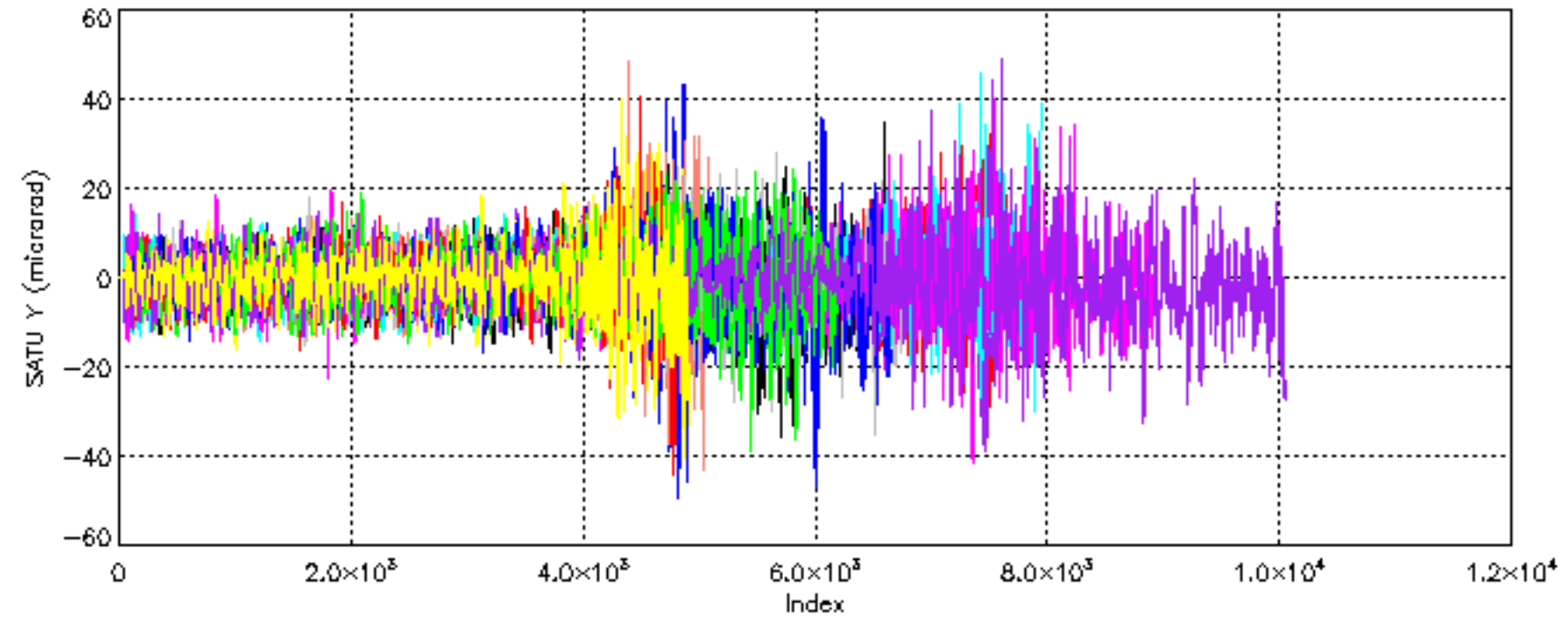
Tangent altitude at which the star is lost

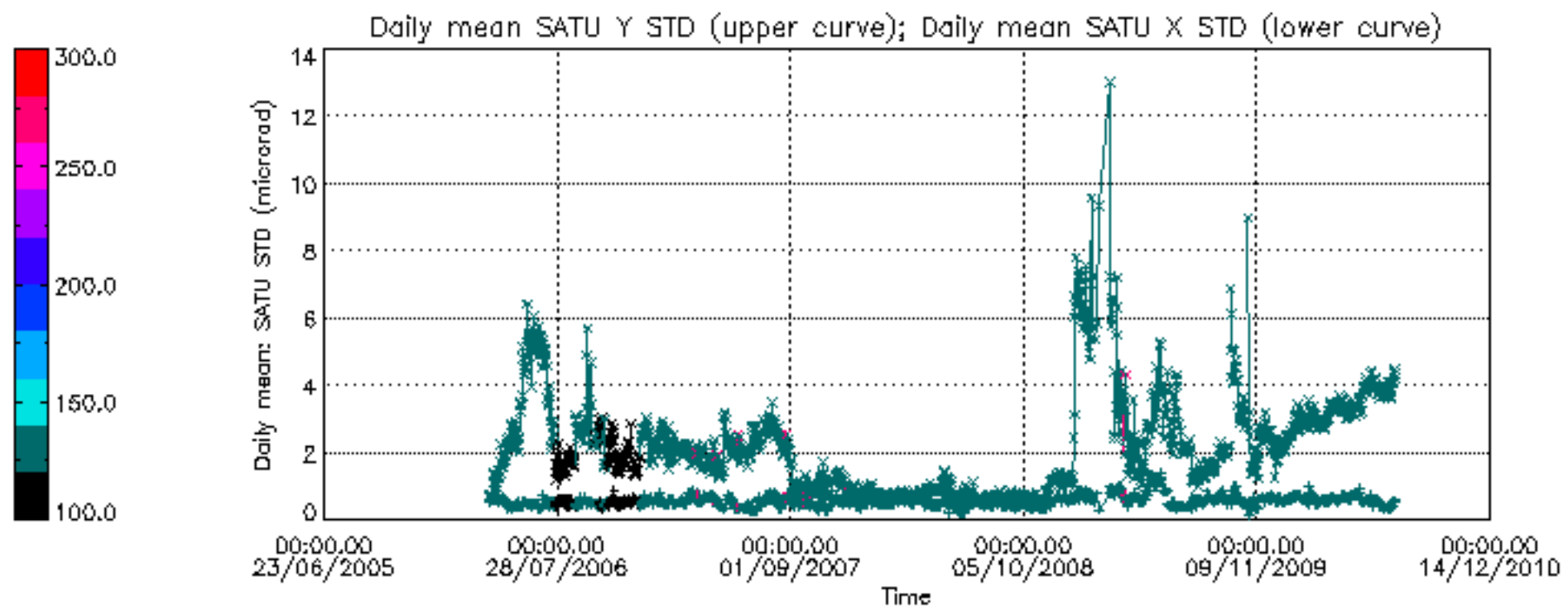


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100701_002828_000055612090_00431_43571_0355.N1

1; -536.4; 01-JUL-2010 00:28:28; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;43571
 2; 94.6; 01-JUL-2010 00:38:59; Dark ; 52.5; 84; Alp Phe ; 2.40; 4500;occ; 105; 0;43572
 3; 483.7; 01-JUL-2010 00:45:28; Dark ; 56.5; 63; Bet Gru ; 2.15; 2800;occ; 113; 0;43572
 4; 600.1; 01-JUL-2010 00:47:24; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;43572
 5; 743.9; 01-JUL-2010 00:49:48; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;43572
 6; 1314.0; 01-JUL-2010 00:59:18; Dark ; 49.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 98; 0;43572
 7; 1480.2; 01-JUL-2010 01:02:04; Bright; 46.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 93; 0;43572
 8; 1981.6; 01-JUL-2010 01:10:26; Bright; 37.5; 126; 60Bet Oph ; 2.77; 4250;occ; 75; 0;43572
 9; 2121.8; 01-JUL-2010 01:12:46; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;43572
 10; 2233.6; 01-JUL-2010 01:14:38; Bright; 47.5; 168; 17Zet Aql ; 2.99; 11000;occ; 95; 0;43572
 11; 2652.9; 01-JUL-2010 01:21:37; Bright; 41.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 82; 0;43572
 12; 2809.4; 01-JUL-2010 01:24:14; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;43572
 13; 2925.2; 01-JUL-2010 01:26:09; Bright; 40.0; 144; 18Del Cyg ; 2.86; 11000;occ; 80; 0;43572
 14; 3345.6; 01-JUL-2010 01:33:10; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;43572
 15; 3786.1; 01-JUL-2010 01:40:30; Bright; 48.0; 74; 11Bet Cas ; 2.27; 6600;occ; 96; 0;43572
 16; 3888.2; 01-JUL-2010 01:42:12; Bright; 50.0; 68; 18Alp Cas ; 2.22; 4500;occ; 100; 0;43572
 17; 4062.4; 01-JUL-2010 01:45:07; Bright; 56.0; 160; 23Gam Per ; 2.93; 4700;occ; 112; 0;43572
 18; 4266.8; 01-JUL-2010 01:48:31; Bright; 46.0; 73; 57Gam1And ; 2.26; 13100;occ; 92; 0;43572
 19; 4424.1; 01-JUL-2010 01:51:08; Dark ; 49.5; 173; 4Bet Tri ; 3.00; 8900;occ; 99; 0;43572
 20; 4678.5; 01-JUL-2010 01:55:23; Dark ; 60.5; 50; 13Alp Ari ; 2.01; 4250;occ; 121; 0;43572
 21; 4976.2; 01-JUL-2010 02:00:20; Dark ; 48.5; 94; 92Alp Cet ; 2.53; 3100;occ; 97; 0;43572

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100701_020905_000039272090_00432_43572_0356.N1

1; -535.5; 01-JUL-2010 02:09:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43572
 2; 95.3; 01-JUL-2010 02:19:35; Dark ; 58.0; 84; Alp Phe ; 2.40; 4500;occ; 116; 0;43573
 3; 484.4; 01-JUL-2010 02:26:04; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;43573
 4; 601.0; 01-JUL-2010 02:28:01; Dark ; 55.0; 31; Alp Gru ; 1.73; 15200;occ; 110; 0;43573
 5; 744.6; 01-JUL-2010 02:30:25; Dark ; 46.5; 45; Alp Pav ; 1.94; 26000;occ; 93; 0;43573
 6; 1314.3; 01-JUL-2010 02:39:54; Dark ; 46.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 93; 0;43573
 7; 1480.5; 01-JUL-2010 02:42:41; Bright; 46.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 93; 0;43573
 8; 1982.0; 01-JUL-2010 02:51:02; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;43573
 9; 2121.7; 01-JUL-2010 02:53:22; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;43573
 10; 2233.3; 01-JUL-2010 02:55:13; Bright; 49.5; 168; 17Zet Aql ; 2.99; 11000;occ; 99; 0;43573
 11; 2652.5; 01-JUL-2010 03:02:13; Bright; 41.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 83; 0;43573
 12; 2809.3; 01-JUL-2010 03:04:49; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;43573
 13; 2924.7; 01-JUL-2010 03:06:45; Bright; 40.0; 144; 18Del Cyg ; 2.86; 11000;occ; 80; 0;43573
 14; 3344.9; 01-JUL-2010 03:13:45; Bright; 47.5; 89; 5Alp Cep ; 2.45; 8000;occ; 95; 0;43573

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100701_032106_000056372090_00433_43573_0357.N1

1;-2250.0; 01-JUL-2010 03:21:06; Bright; 47.5; 74; 11Bet Cas ; 2.27; 6600;occ; 95; 0;43573
 2;-2148.4; 01-JUL-2010 03:22:48; Bright; 48.0; 68; 18Alp Cas ; 2.22; 4500;occ; 96; 0;43573
 3;-1973.6; 01-JUL-2010 03:25:42; Bright; 51.0; 160; 23Gam Per ; 2.93; 4700;occ; 102; 0;43573
 4;-1769.2; 01-JUL-2010 03:29:07; Bright; 65.0; 73; 57Gam1And ; 2.26; 13100;occ; 130; 0;43573
 5;-1611.6; 01-JUL-2010 03:31:44; Dark ; 50.5; 173; 4Bet Tri ; 3.00; 8900;occ; 101; 0;43573
 6;-1357.0; 01-JUL-2010 03:35:59; Dark ; 59.0; 50; 13Alp Ari ; 2.01; 4250;occ; 118; 0;43573
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13; 4680.6; 01-JUL-2010 11:59:00; Dark ; 59.0; 50; 13Alp Ari ; 2.01; 4250;occ; 118; 0;43578
14; 4978.8; 01-JUL-2010 12:03:59; Dark ; 55.0; 94; 92Alp Cet ; 2.53; 3100;occ; 110; 0;43578
15; 5505.7; 01-JUL-2010 12:12:45; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;43578
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 1; 102.8; 01-JUL-2010 14:03:54; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;43580
 2; 491.8; 01-JUL-2010 14:10:23; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;43580
 3; 587.7; 01-JUL-2010 14:11:59; Dark ; 81.0; 18; 24Alp PsA ; 1.17; 9700;occ; 162; 0;43580
 4; 781.6; 01-JUL-2010 14:15:13; Dark ; 54.5; 172; Gam Gru ; 3.00; 13100;occ; 109; 0;43580
 5; 1481.9; 01-JUL-2010 14:26:53; Bright; 7.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 15; 0;43580
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 2; 2229.3; 01-JUL-2010 14:39:21; Bright; 50.0; 168; 17Zet Aql ; 2.99; 11000;occ; 100; 0;43580
 3; 2649.4; 01-JUL-2010 14:46:21; Bright; 47.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 95; 0;43580
 4; 2918.4; 01-JUL-2010 14:50:50; Bright; 48.5; 144; 18Del Cyg ; 2.86; 11000;occ; 97; 0;43580
 5; 3137.9; 01-JUL-2010 14:54:29; Bright; 59.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 119; 0;43580
 6; 3340.4; 01-JUL-2010 14:57:52; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;43580
 7; 3782.2; 01-JUL-2010 15:05:14; Bright; 50.5; 74; 11Bet Cas ; 2.27; 6600;occ; 101; 0;43580
 8; 3875.4; 01-JUL-2010 15:06:47; Bright; 49.5; 110; 37Del Cas ; 2.68; 8900;occ; 99; 0;43580
 9; 4266.0; 01-JUL-2010 15:13:18; Bright; 54.5; 73; 57Gam1And ; 2.26; 13100;occ; 109; 0;43580
10; 4419.4; 01-JUL-2010 15:15:51; Dark ; 70.5; 53; 43Bet And ; 2.05; 3300;occ; 141; 0;43580
11; 4681.6; 01-JUL-2010 15:20:13; Dark ; 58.0; 50; 13Alp Ari ; 2.01; 4250;occ; 116; 0;43580
12; 5507.5; 01-JUL-2010 15:33:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43580
13; 5874.7; 01-JUL-2010 15:40:06; Dark ; 87.5; 52; 16Bet Cet ; 2.04; 4500;occ; 175; 0;43580
14; 6139.5; 01-JUL-2010 15:44:31; Dark ; 48.5; 84; Alp Phe ; 2.40; 4500;occ; 97; 0;43581
15; 6528.2; 01-JUL-2010 15:51:00; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;43581
16; 6625.2; 01-JUL-2010 15:52:37; Dark ; 83.0; 18; 24Alp PsA ; 1.17; 9700;occ; 166; 0;43581
17; 6818.5; 01-JUL-2010 15:55:50; Dark ; 55.0; 172; Gam Gru ; 3.00; 13100;occ; 110; 0;43581
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 2; 2229.2; 01-JUL-2010 16:19:57; Bright; 46.5; 168; 17Zet Aql ; 2.99; 11000;occ; 93; 0;43581
 3; 2649.2; 01-JUL-2010 16:26:57; Bright; 41.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 83; 0;43581
 4; 2917.6; 01-JUL-2010 16:31:25; Bright; 49.0; 144; 18Del Cyg ; 2.86; 11000;occ; 98; 0;43581
 5; 3136.6; 01-JUL-2010 16:35:04; Bright; 61.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 122; 0;43581
 6; 3339.7; 01-JUL-2010 16:38:27; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;43581
 7; 3781.6; 01-JUL-2010 16:45:49; Bright; 48.0; 74; 11Bet Cas ; 2.27; 6600;occ; 96; 0;43581
 8; 3875.2; 01-JUL-2010 16:47:23; Bright; 62.0; 110; 37Del Cas ; 2.68; 8900;occ; 124; 0;43581
 9; 4266.1; 01-JUL-2010 16:53:54; Bright; 52.5; 73; 57Gam1And ; 2.26; 13100;occ; 105; 0;43581
10; 4419.6; 01-JUL-2010 16:56:27; Dark ; 80.5; 53; 43Bet And ; 2.05; 3300;occ; 161; 0;43581
11; 4681.5; 01-JUL-2010 17:00:49; Dark ; 60.0; 50; 13Alp Ari ; 2.01; 4250;occ; 120; 0;43581
12; 5508.5; 01-JUL-2010 17:14:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43581
13; 5876.6; 01-JUL-2010 17:20:44; Dark ; 83.0; 52; 16Bet Cet ; 2.04; 4500;occ; 166; 0;43581
14; 6140.6; 01-JUL-2010 17:25:08; Dark ; 48.5; 84; Alp Phe ; 2.40; 4500;occ; 97; 0;43582
15; 6529.1; 01-JUL-2010 17:31:37; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;43582
16; 6627.2; 01-JUL-2010 17:33:15; Dark ; 78.0; 18; 24Alp PsA ; 1.17; 9700;occ; 156; 0;43582
17; 6819.5; 01-JUL-2010 17:36:27; Dark ; 55.0; 172; Gam Gru ; 3.00; 13100;occ; 110; 0;43582
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 2; -149.9; 02-JUL-2010 01:43:53; Dark ; 86.5; 52; 16Bet Cet ; 2.04; 4500;occ; 173; 0;43586
 3; 109.8; 02-JUL-2010 01:48:13; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;43587
 4; 498.0; 02-JUL-2010 01:54:41; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;43587
 5; 599.9; 02-JUL-2010 01:56:23; Dark ; 77.5; 18; 24Alp PsA ; 1.17; 9700;occ; 155; 0;43587
 6; 789.0; 02-JUL-2010 01:59:32; Dark ; 57.0; 172; Gam Gru ; 3.00; 13100;occ; 114; 0;43587
 7; 1483.2; 02-JUL-2010 02:11:06; Bright; 46.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 92; 0;43587
 8; 2225.6; 02-JUL-2010 02:23:29; Bright; 47.0; 168; 17Zet Aql ; 2.99; 11000;occ; 94; 0;43587
 9; 2645.9; 02-JUL-2010 02:30:29; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;43587
10; 2912.5; 02-JUL-2010 02:34:56; Bright; 46.0; 144; 18Del Cyg ; 2.86; 11000;occ; 92; 0;43587
11; 3129.0; 02-JUL-2010 02:38:32; Bright; 63.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 127; 0;43587
12; 3335.4; 02-JUL-2010 02:41:58; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;43587
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 2; -2162.5; 02-JUL-2010 02:50:56; Bright; 41.5; 110; 37Del Cas ; 2.68; 8900;occ; 83; 0;43587
 3; -1770.3; 02-JUL-2010 02:57:29; Bright; 51.5; 73; 57Gam1And ; 2.26; 13100;occ; 103; 0;43587
 4; -1616.6; 02-JUL-2010 03:00:02; Dark ; 66.5; 53; 43Bet And ; 2.05; 3300;occ; 133; 0;43587
 5; -1352.1; 02-JUL-2010 03:04:27; Dark ; 62.5; 50; 13Alp Ari ; 2.01; 4250;occ; 125; 0;43587
 6; -522.2; 02-JUL-2010 03:18:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43587

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7; -148.3; 02-JUL-2010 03:24:31; Dark ; 78.5; 52; 16Bet Cet ; 2.04; 4500;occ; 157; 0;43587
 8; 111.0; 02-JUL-2010 03:28:50; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;43588
 9; 499.0; 02-JUL-2010 03:35:18; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;43588
 10; 601.6; 02-JUL-2010 03:37:01; Dark ; 86.0; 18; 24Alp PsA ; 1.17; 9700;occ; 172; 0;43588
 11; 790.0; 02-JUL-2010 03:40:09; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;43588
 12; 1483.1; 02-JUL-2010 03:51:42; Bright; 46.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 92; 0;43588
 13; 2225.3; 02-JUL-2010 04:04:04; Bright; 48.5; 168; 17Zet Aql ; 2.99; 11000;occ; 97; 0;43588
 14; 2645.5; 02-JUL-2010 04:11:04; Bright; 42.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 85; 0;43588
 15; 2911.7; 02-JUL-2010 04:15:31; Bright; 48.0; 144; 18Del Cyg ; 2.86; 11000;occ; 96; 0;43588
 16; 3128.0; 02-JUL-2010 04:19:07; Bright; 60.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 120; 0;43588
 17; 3334.8; 02-JUL-2010 04:22:34; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;43588

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1; -2257.8; 02-JUL-2010 04:29:57; Bright; 48.0; 74; 11Bet Cas ; 2.27; 6600;occ; 96; 0;43588
 2; -2162.8; 02-JUL-2010 04:31:32; Bright; 58.5; 110; 37Del Cas ; 2.68; 8900;occ; 117; 0;43588
 3; -1770.4; 02-JUL-2010 04:38:05; Bright; 49.5; 73; 57Gam1And ; 2.26; 13100;occ; 99; 0;43588
 4; -1616.2; 02-JUL-2010 04:40:39; Dark ; 68.0; 53; 43Bet And ; 2.05; 3300;occ; 136; 0;43588
 5; -1351.9; 02-JUL-2010 04:45:03; Dark ; 61.0; 50; 13Alp Ari ; 2.01; 4250;occ; 122; 0;43588
 6; -521.3; 02-JUL-2010 04:58:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43588
 7; -146.4; 02-JUL-2010 05:05:09; Dark ; 69.5; 52; 16Bet Cet ; 2.04; 4500;occ; 139; 0;43588
 8; 112.1; 02-JUL-2010 05:09:27; Dark ; 61.0; 84; Alp Phe ; 2.40; 4500;occ; 122; 0;43589
 9; 499.9; 02-JUL-2010 05:15:55; Dark ; 51.0; 63; Bet Gru ; 2.15; 2800;occ; 102; 0;43589
 10; 603.3; 02-JUL-2010 05:17:38; Dark ; 79.5; 18; 24Alp PsA ; 1.17; 9700;occ; 159; 0;43589
 11; 790.9; 02-JUL-2010 05:20:46; Dark ; 56.0; 172; Gam Gru ; 3.00; 13100;occ; 112; 0;43589
 12; 1483.4; 02-JUL-2010 05:32:18; Bright; 45.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 90; 0;43589
 13; 2224.8; 02-JUL-2010 05:44:40; Bright; 49.0; 168; 17Zet Aql ; 2.99; 11000;occ; 98; 0;43589
 14; 2645.2; 02-JUL-2010 05:51:40; Bright; 47.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 95; 0;43589
 15; 2911.1; 02-JUL-2010 05:56:06; Bright; 48.5; 144; 18Del Cyg ; 2.86; 11000;occ; 97; 0;43589
 16; 3126.3; 02-JUL-2010 05:59:41; Bright; 60.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 121; 0;43589
 17; 3334.2; 02-JUL-2010 06:03:09; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;43589

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1; 1485.0; 02-JUL-2010 20:37:43; Bright; 42.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 85; 0;43598
 2; 2220.0; 02-JUL-2010 20:49:58; Bright; 46.5; 168; 17Zet Aql ; 2.99; 11000;occ; 93; 0;43598
 3; 2640.9; 02-JUL-2010 20:56:59; Bright; 39.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 79; 0;43598
 4; 2903.3; 02-JUL-2010 21:01:22; Bright; 49.5; 144; 18Del Cyg ; 2.86; 11000;occ; 99; 0;43598
 5; 3115.0; 02-JUL-2010 21:04:53; Bright; 60.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 121; 0;43598
 6; 3328.0; 02-JUL-2010 21:08:26; Bright; 67.0; 89; 5Alp Cep ; 2.45; 8000;occ; 134; 0;43598
 7; 3772.7; 02-JUL-2010 21:15:51; Bright; 48.0; 74; 11Bet Cas ; 2.27; 6600;occ; 96; 0;43598
 8; 3870.0; 02-JUL-2010 21:17:28; Bright; 42.0; 110; 37Del Cas ; 2.68; 8900;occ; 84; 0;43598
 9; 4265.1; 02-JUL-2010 21:24:04; Bright; 53.5; 73; 57Gam1And ; 2.26; 13100;occ; 107; 0;43598
 10; 4419.7; 02-JUL-2010 21:26:38; Dark ; 69.5; 53; 43Bet And ; 2.05; 3300;occ; 139; 0;43598
 11; 4687.4; 02-JUL-2010 21:31:06; Dark ; 63.5; 50; 13Alp Ari ; 2.01; 4250;occ; 127; 0;43598

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 2; -127.4; 02-JUL-2010 21:51:27; Dark ; 89.5; 52; 16Bet Cet ; 2.04; 4500;occ; 179; 0;43598
 3; 122.1; 02-JUL-2010 21:55:36; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;43599
 4; 509.5; 02-JUL-2010 22:02:04; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;43599
 5; 620.8; 02-JUL-2010 22:03:55; Dark ; 95.0; 18; 24Alp PsA ; 1.17; 9700;occ; 190; 0;43599
 6; 801.4; 02-JUL-2010 22:06:56; Dark ; 53.5; 172; Gam Gru ; 3.00; 13100;occ; 107; 0;43599
 7; 1485.3; 02-JUL-2010 22:18:20; Bright; 44.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 89; 0;43599
 8; 2219.6; 02-JUL-2010 22:30:34; Bright; 47.5; 168; 17Zet Aql ; 2.99; 11000;occ; 95; 0;43599
 9; 2640.5; 02-JUL-2010 22:37:35; Bright; 44.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 88; 0;43599
 10; 2902.2; 02-JUL-2010 22:41:57; Bright; 50.0; 144; 18Del Cyg ; 2.86; 11000;occ; 100; 0;43599
 11; 3113.9; 02-JUL-2010 22:45:28; Bright; 60.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 121; 0;43599
 12; 3327.7; 02-JUL-2010 22:49:02; Bright; 46.0; 89; 5Alp Cep ; 2.45; 8000;occ; 92; 0;43599
 13; 3772.1; 02-JUL-2010 22:56:26; Bright; 48.5; 74; 11Bet Cas ; 2.27; 6600;occ; 97; 0;43599
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 15; 4265.0; 02-JUL-2010 23:04:39; Bright; 53.0; 73; 57Gam1And ; 2.26; 13100;occ; 106; 0;43599
 16; 4419.6; 02-JUL-2010 23:07:14; Dark ; 74.0; 53; 43Bet And ; 2.05; 3300;occ; 148; 0;43599
 17; 4687.9; 02-JUL-2010 23:11:42; Dark ; 66.5; 50; 13Alp Ari ; 2.01; 4250;occ; 133; 0;43599

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 2; -125.4; 02-JUL-2010 23:32:05; Dark ; 73.0; 52; 16Bet Cet ; 2.04; 4500;occ; 146; 0;43599
 3; 123.3; 02-JUL-2010 23:36:14; Dark ; 49.5; 84; Alp Phe ; 2.40; 4500;occ; 99; 0;43600
 4; 510.5; 02-JUL-2010 23:42:41; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;43600
 5; 622.6; 02-JUL-2010 23:44:33; Dark ; 77.5; 18; 24Alp PsA ; 1.17; 9700;occ; 155; 0;43600
 6; 802.4; 02-JUL-2010 23:47:33; Dark ; 57.0; 172; Gam Gru ; 3.00; 13100;occ; 114; 0;43600
 7; 1485.6; 02-JUL-2010 23:58:56; Bright; 45.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 90; 0;43600
 8; 2219.0; 03-JUL-2010 00:11:09; Bright; 48.0; 168; 17Zet Aql ; 2.99; 11000;occ; 96; 0;43600


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10; 2901.4; 03-JUL-2010 00:22:32; Bright; 49.0; 144; 18Del Cyg ; 2.86; 11000;occ; 98; 0;43600
11; 3112.7; 03-JUL-2010 00:26:03; Bright; 59.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 119; 0;43600
12; 3326.7; 03-JUL-2010 00:29:37; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;43600
13; 3771.5; 03-JUL-2010 00:37:02; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;43600
14; 3869.4; 03-JUL-2010 00:38:40; Bright; 63.0; 110; 37Del Cas ; 2.68; 8900;occ; 126; 0;43600
15; 4264.7; 03-JUL-2010 00:45:15; Bright; 66.0; 73; 57Gam1And ; 2.26; 13100;occ; 132; 0;43600
16; 4419.5; 03-JUL-2010 00:47:50; Dark ; 72.5; 53; 43Bet And ; 2.05; 3300;occ; 145; 0;43600
17; 4688.4; 03-JUL-2010 00:52:19; Dark ; 59.5; 50; 13Alp Ari ; 2.01; 4250;occ; 119; 0;43600
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3; -1770.1; 02-JUL-2010 06:18:41; Bright; 51.0; 73; 57Gam1And ; 2.26; 13100;occ; 102; 0;43589
4; -1616.4; 02-JUL-2010 06:21:15; Dark ; 77.0; 53; 43Bet And ; 2.05; 3300;occ; 154; 0;43589
5; -1351.6; 02-JUL-2010 06:25:39; Dark ; 60.0; 50; 13Alp Ari ; 2.01; 4250;occ; 120; 0;43589
6; -520.3; 02-JUL-2010 06:39:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43589
7; -144.3; 02-JUL-2010 06:45:47; Dark ; 85.0; 52; 16Bet Cet ; 2.04; 4500;occ; 170; 0;43589
8; 113.3; 02-JUL-2010 06:50:04; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;43590
9; 501.0; 02-JUL-2010 06:56:32; Dark ; 57.5; 63; Bet Gru ; 2.15; 2800;occ; 115; 0;43590
10; 605.1; 02-JUL-2010 06:58:16; Dark ; 78.0; 18; 24Alp PsA ; 1.17; 9700;occ; 156; 0;43590
11; 792.1; 02-JUL-2010 07:01:23; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;43590
12; 1483.6; 02-JUL-2010 07:12:55; Bright; 43.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 87; 0;43590
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2; 2644.8; 02-JUL-2010 07:32:16; Bright; 41.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 83; 0;43590
3; 2909.9; 02-JUL-2010 07:36:41; Bright; 48.0; 144; 18Del Cyg ; 2.86; 11000;occ; 96; 0;43590
4; 3125.1; 02-JUL-2010 07:40:16; Bright; 57.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 115; 0;43590
5; 3333.5; 02-JUL-2010 07:43:45; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;43590
6; 3777.0; 02-JUL-2010 07:51:08; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;43590
7; 3872.4; 02-JUL-2010 07:52:43; Bright; 43.0; 110; 37Del Cas ; 2.68; 8900;occ; 86; 0;43590
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3; 2200.9; 05-JUL-2010 20:55:24; Bright; 45.5; 168; 17Zet Aql ; 2.99; 11000;occ; 91; 0;43641
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10; 4261.2; 05-JUL-2010 21:29:45; Bright; 53.5; 73; 57Gam1And ; 2.26; 13100;occ; 107; 0;43641
11; 4419.3; 05-JUL-2010 21:32:23; Dark ; 78.5; 53; 43Bet And ; 2.05; 3300;occ; 157; 0;43641
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3; 2200.2; 05-JUL-2010 22:35:59; Bright; 44.5; 168; 17Zet Aql ; 2.99; 11000;occ; 89; 0;43642
4; 2622.8; 05-JUL-2010 22:43:02; Bright; 42.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 84; 0;43642
5; 2868.4; 05-JUL-2010 22:47:08; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95; 0;43642
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11; 4418.9; 05-JUL-2010 23:12:58; Dark ; 79.0; 53; 43Bet And ; 2.05; 3300;occ; 158; 0;43642
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3;-1773.9; 05-JUL-2010 06:24:22; Bright; 55.5; 73; 57Gam1And ; 2.26; 13100;occ; 111; 0;43632
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5;-1335.5; 05-JUL-2010 06:31:40; Dark ; 62.5; 50; 13Alp Ari ; 2.01; 4250;occ; 125; 0;43632
6;-479.2; 05-JUL-2010 06:45:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43632
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8; 158.3; 05-JUL-2010 06:56:34; Dark ; 51.0; 84; Alp Phe ; 2.40; 4500;occ; 102; 0;43633
9; 542.0; 05-JUL-2010 07:02:58; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;43633
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3; 2858.8; 06-JUL-2010 20:34:45; Bright; 46.5; 144; 18Del Cyg ; 2.86; 11000;occ; 93; 0;43655
4; 3048.7; 06-JUL-2010 20:37:55; Bright; 57.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 114; 0;43655
5; 3290.6; 06-JUL-2010 20:41:57; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;43655
6; 3740.9; 06-JUL-2010 20:49:27; Bright; 48.5; 74; 11Bet Cas ; 2.27; 6600;occ; 97; 0;43655
7; 3851.4; 06-JUL-2010 20:51:18; Bright; 44.0; 110; 37Del Cas ; 2.68; 8900;occ; 88; 0;43655
8; 4259.8; 06-JUL-2010 20:58:06; Bright; 54.5; 73; 57Gam1And ; 2.26; 13100;occ; 109; 0;43655
9; 4418.9; 06-JUL-2010 21:00:45; Dark ; 84.0; 53; 43Bet And ; 2.05; 3300;occ; 168; 0;43655
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 5; 717.1; 06-JUL-2010 21:39:39; Dark ; 83.0; 18; 24Alp PsA ; 1.17; 9700;occ; 166; 0;43656
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 3; 183.9; 06-JUL-2010 23:11:22; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;43657
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 5; 718.1; 06-JUL-2010 23:20:16; Dark ; 83.0; 18; 24Alp PsA ; 1.17; 9700;occ; 166; 0;43657
 6; 858.4; 06-JUL-2010 23:22:37; Dark ; 53.5; 172; Gam Gru ; 3.00; 13100;occ; 107; 0;43657
 7; 2194.4; 06-JUL-2010 23:44:53; Bright; 43.5; 168; 17Zet Aql ; 2.99; 11000;occ; 87; 0;43657
 8; 2616.8; 06-JUL-2010 23:51:55; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;43657
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 11; 3289.0; 07-JUL-2010 00:03:07; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;43657
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 13; 3850.6; 07-JUL-2010 00:12:29; Bright; 64.0; 110; 37Del Cas ; 2.68; 8900;occ; 128; 0;43657
 14; 4259.4; 07-JUL-2010 00:19:18; Bright; 54.0; 73; 57Gam1And ; 2.26; 13100;occ; 108; 0;43657
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 16; 4710.0; 07-JUL-2010 00:26:48; Dark ; 61.0; 50; 13Alp Ari ; 2.01; 4250;occ; 122; 0;43657
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 3; 185.2; 07-JUL-2010 00:51:59; Dark ; 51.0; 84; Alp Phe ; 2.40; 4500;occ; 102; 0;43658
 4; 565.1; 07-JUL-2010 00:58:19; Dark ; 63.5; 63; Bet Gru ; 2.15; 2800;occ; 127; 0;43658
 5; 719.8; 07-JUL-2010 01:00:54; Dark ; 80.5; 18; 24Alp PsA ; 1.17; 9700;occ; 161; 0;43658
 6; 859.4; 07-JUL-2010 01:03:14; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;43658
 7; 2193.7; 07-JUL-2010 01:25:28; Bright; 44.0; 168; 17Zet Aql ; 2.99; 11000;occ; 88; 0;43658
 8; 2616.5; 07-JUL-2010 01:32:31; Bright; 41.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 82; 0;43658
 9; 2856.6; 07-JUL-2010 01:36:31; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;43658
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 13; 3850.2; 07-JUL-2010 01:53:04; Bright; 45.0; 110; 37Del Cas ; 2.68; 8900;occ; 90; 0;43658
 14; 4259.3; 07-JUL-2010 01:59:53; Bright; 52.0; 73; 57Gam1And ; 2.26; 13100;occ; 104; 0;43658
 15; 4418.8; 07-JUL-2010 02:02:33; Dark ; 77.0; 53; 43Bet And ; 2.05; 3300;occ; 154; 0;43658
 16; 4710.9; 07-JUL-2010 02:07:25; Dark ; 66.5; 50; 13Alp Ari ; 2.01; 4250;occ; 133; 0;43658
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 3; 186.6; 07-JUL-2010 02:32:37; Dark ; 51.0; 84; Alp Phe ; 2.40; 4500;occ; 102; 0;43659
 4; 566.1; 07-JUL-2010 02:38:56; Dark ; 65.5; 63; Bet Gru ; 2.15; 2800;occ; 131; 0;43659
 5; 721.8; 07-JUL-2010 02:41:32; Dark ; 83.0; 18; 24Alp PsA ; 1.17; 9700;occ; 166; 0;43659
 6; 860.6; 07-JUL-2010 02:43:51; Dark ; 54.5; 172; Gam Gru ; 3.00; 13100;occ; 109; 0;43659
 7; 2616.4; 07-JUL-2010 03:13:06; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;43659
 8; 2855.7; 07-JUL-2010 03:17:06; Bright; 46.5; 144; 18Del Cyg ; 2.86; 11000;occ; 93; 0;43659
 9; 3044.4; 07-JUL-2010 03:20:14; Bright; 51.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 102; 0;43659
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5;-1324.7; 07-JUL-2010 03:48:01; Dark ; 64.0; 50; 13Alp Ari ; 2.01; 4250;occ; 128; 0;43659
6;-1018.5; 07-JUL-2010 03:53:08; Dark ; 52.5; 94; 92Alp Cet ; 2.53; 3100;occ; 105; 0;43659
7; -451.5; 07-JUL-2010 04:02:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43659
8; 0.5; 07-JUL-2010 04:10:06; Dark ; 71.0; 52; 16Bet Cet ; 2.04; 4500;occ; 142; 0;43659
9; 187.6; 07-JUL-2010 04:13:14; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;43660
10; 567.3; 07-JUL-2010 04:19:33; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;43660
11; 723.1; 07-JUL-2010 04:22:09; Dark ; 82.5; 18; 24Alp PsA ; 1.17; 9700;occ; 165; 0;43660
12; 861.3; 07-JUL-2010 04:24:27; Dark ; 56.0; 172; Gam Gru ; 3.00; 13100;occ; 112; 0;43660
13; 2192.8; 07-JUL-2010 04:46:39; Bright; 44.5; 168; 17Zet Aql ; 2.99; 11000;occ; 89; 0;43660
14; 2616.1; 07-JUL-2010 04:53:42; Bright; 43.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 86; 0;43660
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 19; 6943.7; 30-JUL-2010 19:07:40; Dark ; 52.0; 31; Alp Gru ; 1.73; 15200;occ; 104; 0;43998

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 5; 2699.3; 30-JUL-2010 19:37:31; Bright; 36.5; 144; 18Del Cyg ; 2.86; 11000;occ; 73; 0;43998
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 13; 4902.3; 30-JUL-2010 20:14:14; Dark ; 45.0; 27; 24Gam Ori ; 1.64; 26000;occ; 90; 0;43998
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 18; 6328.4; 30-JUL-2010 20:38:00; Dark ; 53.5; 9; Alp Eri ; 0.45; 24000;occ; 107; 0;43999
 19; 6606.5; 30-JUL-2010 20:42:39; Dark ; 58.0; 84; Alp Phe ; 2.40; 4500;occ; 116; 0;43999
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