

GOMOS Daily Report 04-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	07JUL2010 04:44:27
Data source version	GOMOS/5.01
Start time of products	04JUL2010 00:05:17
Stop time of products	04JUL2010 23:49:15
Store outputs in DB	Yes
Nb of level 1b prods	90
Nb of prods with errors	0

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

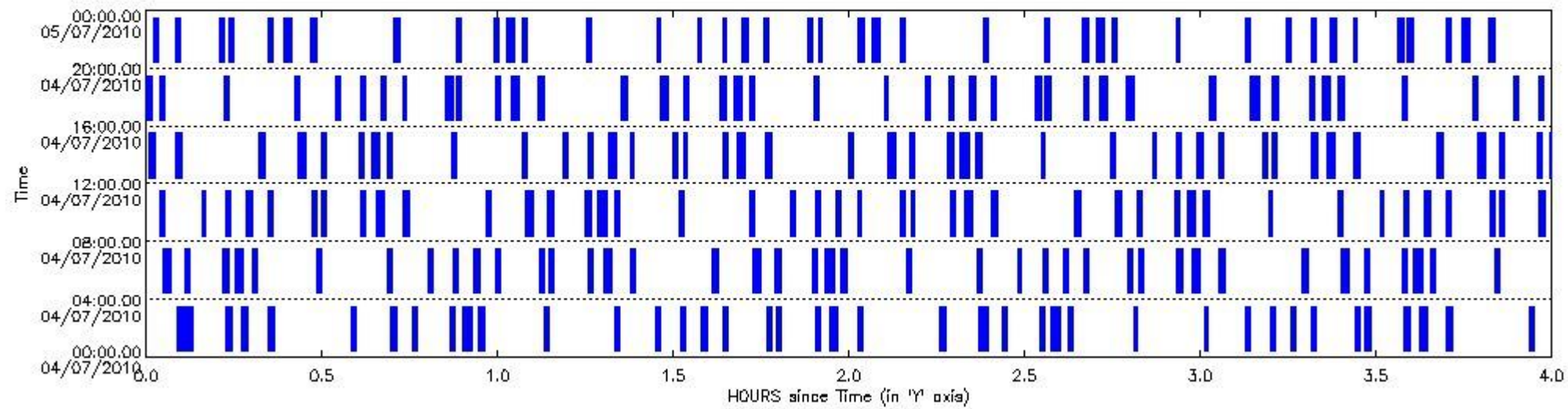
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

No missing products.

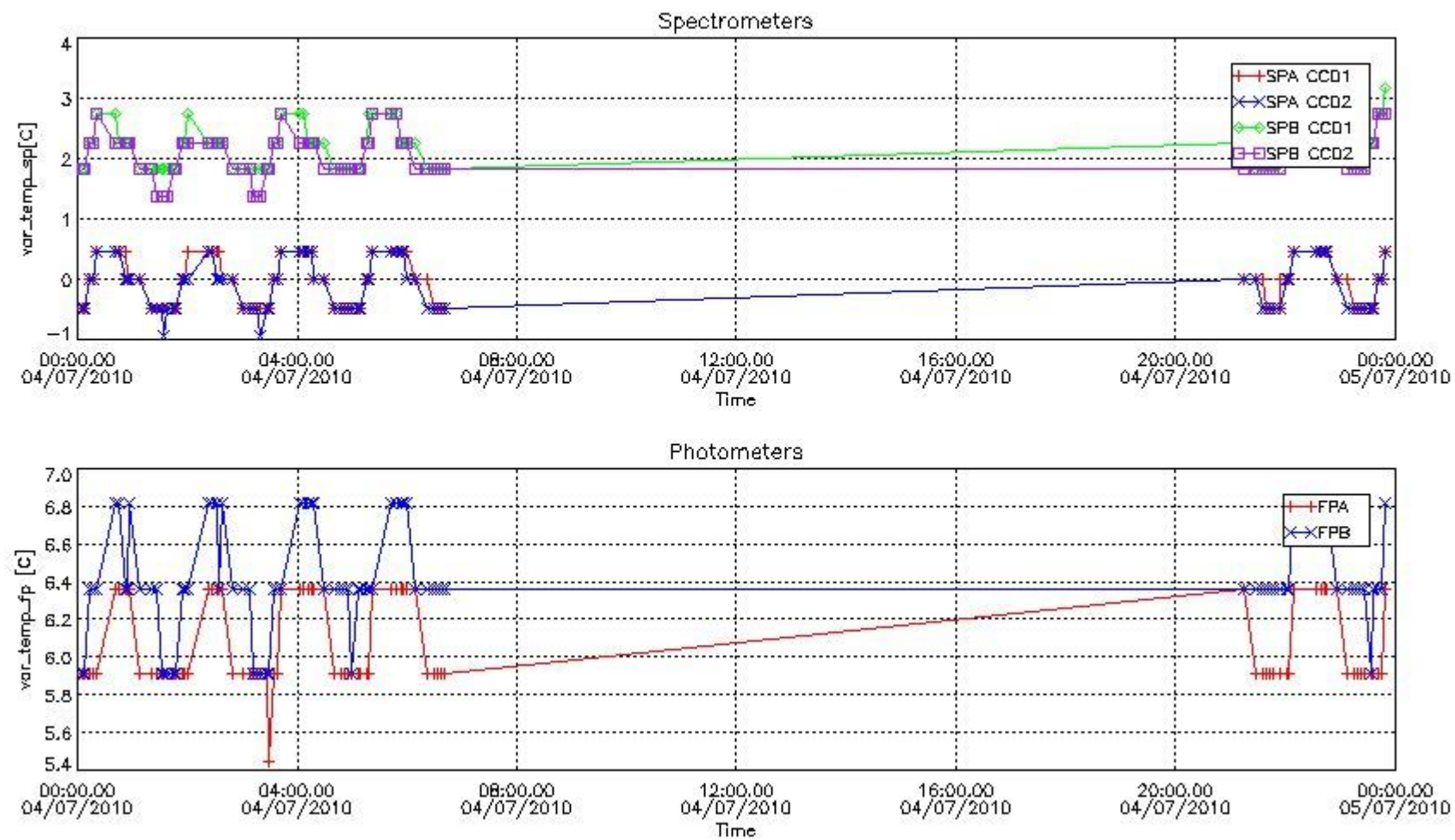
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100704_000517_000000712090_00474_43614_4116.N1	04-JUL-2010 00:05:17	Bright	71.000	74	11Bet Cas	2.2680	6600.0	142	43614	No
2	GOM_TRA_1PNPDE20100704_000658_000000622090_00474_43614_4117.N1	04-JUL-2010 00:06:58	Bright	61.500	110	37Del Cas	2.6780	8900.0	123	43614	No
3	GOM_TRA_1PNPDE20100704_001337_000000542090_00474_43614_4118.N1	04-JUL-2010 00:13:37	Bright	53.500	73	57Gam1And	2.2600	13100.	107	43614	No
4	GOM_TRA_1PNPDE20100704_001612_000000732090_00474_43614_4119.N1	04-JUL-2010 00:16:12	Twilight_and_stray	72.500	53	43Bet And	2.0480	3300.0	145	43614	No
5	GOM_TRA_1PNPDE20100704_002046_000000592090_00474_43614_4120.N1	04-JUL-2010 00:20:46	Dark	58.500	50	13Alp Ari	2.0070	4250.0	117	43614	No
6	GOM_TRA_1PNPDE20100704_004133_000000762090_00474_43614_4128.N1	04-JUL-2010 00:41:33	Dark	75.500	52	16Bet Cet	2.0370	4500.0	151	43614	No
7	GOM_TRA_1PNPDE20100704_004528_000000492090_00475_43615_4129.N1	04-JUL-2010 00:45:28	Dark	49.000	84	Alp Phe	2.3970	4500.0	98	43615	No
8	GOM_TRA_1PNPDE20100704_005154_000000502090_00475_43615_4130.N1	04-JUL-2010 00:51:54	Straylight	50.000	63	Bet Gru	2.1500	2800.0	100	43615	No
9	GOM_TRA_1PNPDE20100704_005358_000000952090_00475_43615_4131.N1	04-JUL-2010 00:53:58	Straylight	95.000	18	24Alp PsA	1.1660	9700.0	190	43615	No
10	GOM_TRA_1PNPDE20100704_005647_000000572090_00475_43615_4132.N1	04-JUL-2010 00:56:47	Straylight	56.500	172	Gam Gru	3.0030	13100.	113	43615	No
11	GOM_TRA_1PNPDE20100704_010757_000000462090_00475_43615_4133.N1	04-JUL-2010 01:07:57	Bright	45.500	155	41Pi Sgr	2.9000	6600.0	91	43615	No
12	GOM_TRA_1PNPDE20100704_012001_000000462090_00475_43615_4134.N1	04-JUL-2010 01:20:01	Bright	45.500	168	17Zet Aql	2.9860	11000.	91	43615	No

13	GOM_TRA_1PNPDE20100704_012702_000000432090_00475_43615_4135.N1	04-JUL-2010 01:27:02	Bright	42.500	5	3Alp Lyr	0.033000	11000.	85	43615	No
14	GOM_TRA_1PNPDE20100704_013118_000000482090_00475_43615_4136.N1	04-JUL-2010 01:31:18	Bright	48.000	144	18Del Cyg	2.8600	11000.	96	43615	No
15	GOM_TRA_1PNPDE20100704_013444_000000622090_00475_43615_4137.N1	04-JUL-2010 01:34:44	Bright	62.000	19	50Alp Cyg	1.2460	10500.	124	43615	No
16	GOM_TRA_1PNPDE20100704_013826_000000442090_00475_43615_4138.N1	04-JUL-2010 01:38:26	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	43615	No
17	GOM_TRA_1PNPDE20100704_014553_000000492090_00475_43615_4139.N1	04-JUL-2010 01:45:53	Bright	48.500	74	11Bet Cas	2.2680	6600.0	97	43615	No
18	GOM_TRA_1PNPDE20100704_014734_000000432090_00475_43615_4140.N1	04-JUL-2010 01:47:34	Bright	42.500	110	37Del Cas	2.6780	8900.0	85	43615	No
19	GOM_TRA_1PNPDE20100704_015413_000000552090_00475_43615_4141.N1	04-JUL-2010 01:54:13	Bright	55.000	73	57Gam1And	2.2600	13100.	110	43615	No
20	GOM_TRA_1PNPDE20100704_015648_000000742090_00475_43615_4142.N1	04-JUL-2010 01:56:48	Tw_i_and_stray	73.500	53	43Bet And	2.0480	3300.0	147	43615	No
21	GOM_TRA_1PNPDE20100704_020123_000000622090_00475_43615_4143.N1	04-JUL-2010 02:01:23	Dark	61.500	50	13Alp Ari	2.0070	4250.0	123	43615	No
22	GOM_TRA_1PNPDE20100704_022211_000000932090_00475_43615_4147.N1	04-JUL-2010 02:22:11	Dark	93.000	52	16Bet Cet	2.0370	4500.0	186	43615	No
23	GOM_TRA_1PNPDE20100704_022605_000000482090_00476_43616_4148.N1	04-JUL-2010 02:26:05	Dark	48.000	84	Alp Phe	2.3970	4500.0	96	43616	No
24	GOM_TRA_1PNPDE20100704_023231_000000542090_00476_43616_4149.N1	04-JUL-2010 02:32:31	Straylight	54.000	63	Bet Gru	2.1500	2800.0	108	43616	No
25	GOM_TRA_1PNPDE20100704_023435_000000882090_00476_43616_4150.N1	04-JUL-2010 02:34:35	Straylight	88.000	18	24Alp PsA	1.1660	9700.0	176	43616	No
26	GOM_TRA_1PNPDE20100704_023724_000000552090_00476_43616_4151.N1	04-JUL-2010 02:37:24	Straylight	55.000	172	Gam Gru	3.0030	13100.	110	43616	No
27	GOM_TRA_1PNPDE20100704_024833_000000452090_00476_43616_4152.N1	04-JUL-2010 02:48:33	Bright	44.500	155	41Pi Sgr	2.9000	6600.0	89	43616	No
28	GOM_TRA_1PNPDE20100704_030037_000000472090_00476_43616_4153.N1	04-JUL-2010 03:00:37	Bright	46.500	168	17Zet Aql	2.9860	11000.	93	43616	No
29	GOM_TRA_1PNPDE20100704_030738_000000462090_00476_43616_4154.N1	04-JUL-2010 03:07:38	Bright	45.500	5	3Alp Lyr	0.033000	11000.	91	43616	No
30	GOM_TRA_1PNPDE20100704_031153_000000472090_00476_43616_4155.N1	04-JUL-2010 03:11:53	Bright	47.000	144	18Del Cyg	2.8600	11000.	94	43616	No
31	GOM_TRA_1PNPDE20100704_031519_000000622090_00476_43616_4156.N1	04-JUL-2010 03:15:19	Bright	62.000	19	50Alp Cyg	1.2460	10500.	124	43616	No
32	GOM_TRA_1PNPDE20100704_031901_000000472090_00476_43616_4157.N1	04-JUL-2010 03:19:01	Bright	47.000	89	5Alp Cep	2.4510	8000.0	94	43616	No
33	GOM_TRA_1PNPDE20100704_032628_000000492090_00476_43616_4172.N1	04-JUL-2010 03:26:28	Bright	49.000	74	11Bet Cas	2.2680	6600.0	98	43616	No
34	GOM_TRA_1PNPDE20100704_032809_000000502090_00476_43616_4173.N1	04-JUL-2010 03:28:09	Bright	49.500	110	37Del Cas	2.6780	8900.0	99	43616	No
35	GOM_TRA_1PNPDE20100704_033448_000000542090_00476_43616_4174.N1	04-JUL-2010 03:34:48	Bright	53.500	73	57Gam1And	2.2600	13100.	107	43616	No
36	GOM_TRA_1PNPDE20100704_033724_000000832090_00476_43616_4175.N1	04-JUL-2010 03:37:24	Tw_i_and_stray	83.000	53	43Bet And	2.0480	3300.0	166	43616	No
37	GOM_TRA_1PNPDE20100704_034159_000000642090_00476_43616_4176.N1	04-JUL-2010 03:41:59	Dark	63.500	50	13Alp Ari	2.0070	4250.0	127	43616	No
38	GOM_TRA_1PNPDE20100704_040249_000000892090_00476_43616_4177.N1	04-JUL-2010 04:02:49	Dark	88.500	52	16Bet Cet	2.0370	4500.0	177	43616	No
39	GOM_TRA_1PNPDE20100704_040642_000000492090_00477_43617_4178.N1	04-JUL-2010 04:06:42	Dark	49.000	84	Alp Phe	2.3970	4500.0	98	43617	No
40	GOM_TRA_1PNPDE20100704_041308_000000512090_00477_43617_4179.N1	04-JUL-2010 04:13:08	Straylight	50.500	63	Bet Gru	2.1500	2800.0	101	43617	No
41	GOM_TRA_1PNPDE20100704_041513_000000852090_00477_43617_4180.N1	04-JUL-2010 04:15:13	Straylight	85.000	18	24Alp PsA	1.1660	9700.0	170	43617	No
42	GOM_TRA_1PNPDE20100704_041801_000000562090_00477_43617_4181.N1	04-JUL-2010 04:18:01	Straylight	55.500	172	Gam Gru	3.0030	13100.	111	43617	No
43	GOM_TRA_1PNPDE20100704_042910_000000452090_00477_43617_4182.N1	04-JUL-2010 04:29:10	Bright	44.500	155	41Pi Sgr	2.9000	6600.0	89	43617	No
44	GOM_TRA_1PNPDE20100704_044112_000000472090_00477_43617_4183.N1	04-JUL-2010 04:41:12	Bright	47.000	168	17Zet Aql	2.9860	11000.	94	43617	No
45	GOM_TRA_1PNPDE20100704_044814_000000452090_00477_43617_4184.N1	04-JUL-2010 04:48:14	Bright	45.000	5	3Alp Lyr	0.033000	11000.	90	43617	No
46	GOM_TRA_1PNPDE20100704_045229_000000472090_00477_43617_4185.N1	04-JUL-2010 04:52:29	Bright	47.000	144	18Del Cyg	2.8600	11000.	94	43617	No
47	GOM_TRA_1PNPDE20100704_045553_000000612090_00477_43617_4186.N1	04-JUL-2010 04:55:53	Bright	60.500	19	50Alp Cyg	1.2460	10500.	121	43617	No
48	GOM_TRA_1PNPDE20100704_045936_000000452090_00477_43617_4187.N1	04-JUL-2010 04:59:36	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	43617	No
49	GOM_TRA_1PNPDE20100704_050703_000000492090_00477_43617_4194.N1	04-JUL-2010 05:07:03	Bright	49.000	74	11Bet Cas	2.2680	6600.0	98	43617	No
50	GOM_TRA_1PNPDE20100704_050845_000000472090_00477_43617_4195.N1	04-JUL-2010 05:08:45	Bright	46.500	110	37Del Cas	2.6780	8900.0	93	43617	No
51	GOM_TRA_1PNPDE20100704_051524_000000562090_00477_43617_4196.N1	04-JUL-2010 05:15:24	Bright	55.500	73	57Gam1And	2.2600	13100.	111	43617	No
52	GOM_TRA_1PNPDE20100704_051800_000000802090_00477_43617_4197.N1	04-JUL-2010 05:18:00	Tw_i_and_stray	79.500	53	43Bet And	2.0480	3300.0	159	43617	No
53	GOM_TRA_1PNPDE20100704_052235_000000602090_00477_43617_4198.N1	04-JUL-2010 05:22:35	Dark	60.000	50	13Alp Ari	2.0070	4250.0	120	43617	No
54	GOM_TRA_1PNPDE20100704_054327_000000912090_00477_43617_4199.N1	04-JUL-2010 05:43:27	Dark	91.000	52	16Bet Cet	2.0370	4500.0	182	43617	No
55	GOM_TRA_1PNPDE20100704_054719_000000612090_00478_43618_4200.N1	04-JUL-2010 05:47:19	Dark	61.000	84	Alp Phe	2.3970	4500.0	122	43618	No
56	GOM_TRA_1PNPDE20100704_055345_000000532090_00478_43618_4201.N1	04-JUL-2010 05:53:45	Straylight	52.500	63	Bet Gru	2.1500	2800.0	105	43618	No
57	GOM_TRA_1PNPDE20100704_055550_000000932090_00478_43618_4202.N1	04-JUL-2010 05:55:50	Straylight	93.000	18	24Alp PsA	1.1660	9700.0	186	43618	No
58	GOM_TRA_1PNPDE20100704_055838_000000562090_00478_43618_4203.N1	04-JUL-2010 05:58:38	Straylight	56.000	172	Gam Gru	3.0030	13100.	112	43618	No
59	GOM_TRA_1PNPDE20100704_060946_000000442090_00478_43618_4204.N1	04-JUL-2010 06:09:46	Bright	44.000	155	41Pi Sgr	2.9000	6600.0	88	43618	No
60	GOM_TRA_1PNPDE20100704_062148_000000472090_00478_43618_4205.N1	04-JUL-2010 06:21:48	Bright	46.500	168	17Zet Aql	2.9860	11000.	93	43618	No
61	GOM_TRA_1PNPDE20100704_062849_000000402090_00478_43618_4206.N1	04-JUL-2010 06:28:49	Bright	40.000	5	3Alp Lyr	0.033000	11000.	80	43618	No
62	GOM_TRA_1PNPDE20100704_063304_000000482090_00478_43618_4207.N1	04-JUL-2010 06:33:04	Bright	48.000	144	18Del Cyg	2.8600	11000.	96	43618	No
63	GOM_TRA_1PNPDE20100704_063628_000000562090_00478_43618_4208.N1	04-JUL-2010 06:36:28	Bright	55.500	19	50Alp Cyg	1.2460	10500.	111	43618	No
64	GOM_TRA_1PNPDE20100704_064012_000000432090_00478_43618_4209.N1	04-JUL-2010 06:40:12	Bright	42.500	89	5Alp Cep	2.4510	8000.0	85	43618	No
65	GOM_TRA_1PNPDE20100704_211511_000000442090_00487_43627_4319.N1	04-JUL-2010 21:15:11	Bright	44.000	155	41Pi Sgr	2.9000	6600.0	88	43627	No
66	GOM_TRA_1PNPDE20100704_212707_000000462090_00487_43627_4320.N1	04-JUL-2010 21:27:07	Bright	45.500	168	17Zet Aql	2.9860	11000.	91	43627	No
67	GOM_TRA_1PNPDE20100704_213409_000000392090_00487_43627_4321.N1	04-JUL-2010 21:34:09	Bright	38.500	5	3Alp Lyr	0.033000	11000.	77	43627	No
68	GOM_TRA_1PNPDE20100704_213820_000000492090_00487_43627_4322.N1	04-JUL-2010 21:38:20	Bright	48.500	144	18Del Cyg	2.8600	11000.	97	43627	No
69	GOM_TRA_1PNPDE20100704_214141_000000602090_00487_43627_4323.N1	04-JUL-2010 21:41:41	Bright	59.500	19	50Alp Cyg	1.2460	10500.	119	43627	No
70	GOM_TRA_1PNPDE20100704_214529_000000462090_00487_43627_4324.N1	04-JUL-2010 21:45:29	Bright	45.500	89	5Alp Cep	2.4510	8000.0	91	43627	No
71	GOM_TRA_1PNPDE20100704_215257_000000502090_00487_43627_4325.N1	04-JUL-2010 21:52:57	Bright	50.000	74	11Bet Cas	2.2680	6600.0	100	43627	No

72	GOM_TRA_1PNPDE20100704_215441_000000432090_00487_43627_4326.N1	04-JUL-2010 21:54:41	Bright	42.500	110	37Del Cas	2.6780	8900.0	85	43627	No
73	GOM_TRA_1PNPDE20100704_220123_000000682090_00487_43627_4327.N1	04-JUL-2010 22:01:23	Bright	68.000	73	57Gam1And	2.2600	13100.	136	43627	No
74	GOM_TRA_1PNPDE20100704_220400_000000792090_00487_43627_4328.N1	04-JUL-2010 22:04:00	Twilight	78.500	53	43Bet And	2.0480	3300.0	157	43627	No
75	GOM_TRA_1PNPDE20100704_220839_000000612090_00487_43627_4329.N1	04-JUL-2010 22:08:39	Dark	61.000	50	13Alp Ari	2.0070	4250.0	122	43627	No
76	GOM_TRA_1PNPDE20100704_223329_000000492090_00488_43628_4339.N1	04-JUL-2010 22:33:29	Dark	48.500	84	Alp Phe	2.3970	4500.0	97	43628	No
77	GOM_TRA_1PNPDE20100704_223953_000000532090_00488_43628_4340.N1	04-JUL-2010 22:39:53	Straylight	52.500	63	Bet Gru	2.1500	2800.0	105	43628	No
78	GOM_TRA_1PNPDE20100704_224207_000000812090_00488_43628_4341.N1	04-JUL-2010 22:42:07	Straylight	80.500	18	24Alp PsA	1.1660	9700.0	161	43628	No
79	GOM_TRA_1PNPDE20100704_224447_000000552090_00488_43628_4342.N1	04-JUL-2010 22:44:47	Straylight	55.000	172	Gam Gru	3.0030	13100.	110	43628	No
80	GOM_TRA_1PNPDE20100704_225547_000000452090_00488_43628_4343.N1	04-JUL-2010 22:55:47	Bright	45.000	155	41Pi Sgr	2.9000	6600.0	90	43628	No
81	GOM_TRA_1PNPDE20100704_230742_000000482090_00488_43628_4344.N1	04-JUL-2010 23:07:42	Bright	47.500	168	17Zet Aql	2.9860	11000.	95	43628	No
82	GOM_TRA_1PNPDE20100704_231444_000000392090_00488_43628_4345.N1	04-JUL-2010 23:14:44	Bright	38.500	5	3Alp Lyr	0.033000	11000.	77	43628	No
83	GOM_TRA_1PNPDE20100704_231855_000000482090_00488_43628_4346.N1	04-JUL-2010 23:18:55	Bright	47.500	144	18Del Cyg	2.8600	11000.	95	43628	No
84	GOM_TRA_1PNPDE20100704_232215_000000602090_00488_43628_4347.N1	04-JUL-2010 23:22:15	Bright	59.500	19	50Alp Cyg	1.2460	10500.	119	43628	No
85	GOM_TRA_1PNPDE20100704_232604_000000452090_00488_43628_4348.N1	04-JUL-2010 23:26:04	Bright	45.000	89	5Alp Cep	2.4510	8000.0	90	43628	No
86	GOM_TRA_1PNPDE20100704_233332_000000712090_00488_43628_4349.N1	04-JUL-2010 23:33:32	Bright	71.000	74	11Bet Cas	2.2680	6600.0	142	43628	No
87	GOM_TRA_1PNPDE20100704_233517_000000632090_00488_43628_4350.N1	04-JUL-2010 23:35:17	Bright	63.000	110	37Del Cas	2.6780	8900.0	126	43628	No
88	GOM_TRA_1PNPDE20100704_234158_000000542090_00488_43628_4351.N1	04-JUL-2010 23:41:58	Bright	54.000	73	57Gam1And	2.2600	13100.	108	43628	No
89	GOM_TRA_1PNPDE20100704_234435_000000792090_00488_43628_4352.N1	04-JUL-2010 23:44:35	Twilight	78.500	53	43Bet And	2.0480	3300.0	157	43628	No
90	GOM_TRA_1PNPDE20100704_234915_000000652090_00488_43628_4353.N1	04-JUL-2010 23:49:15	Dark	64.500	50	13Alp Ari	2.0070	4250.0	129	43628	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

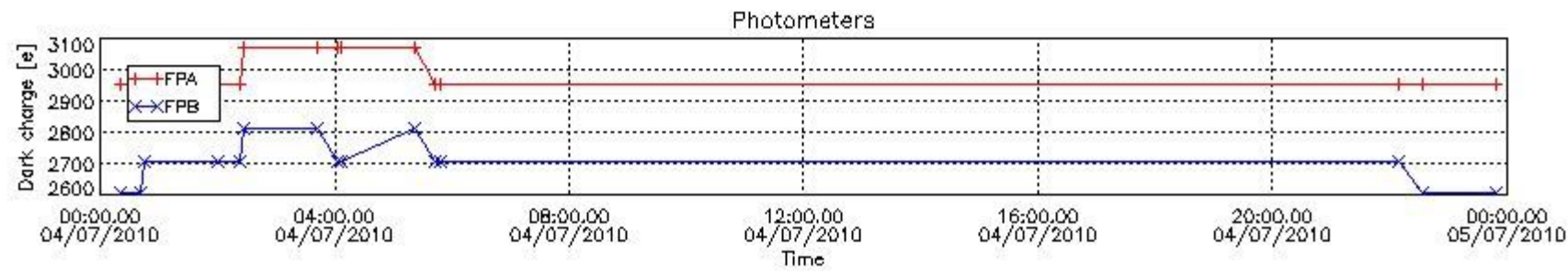
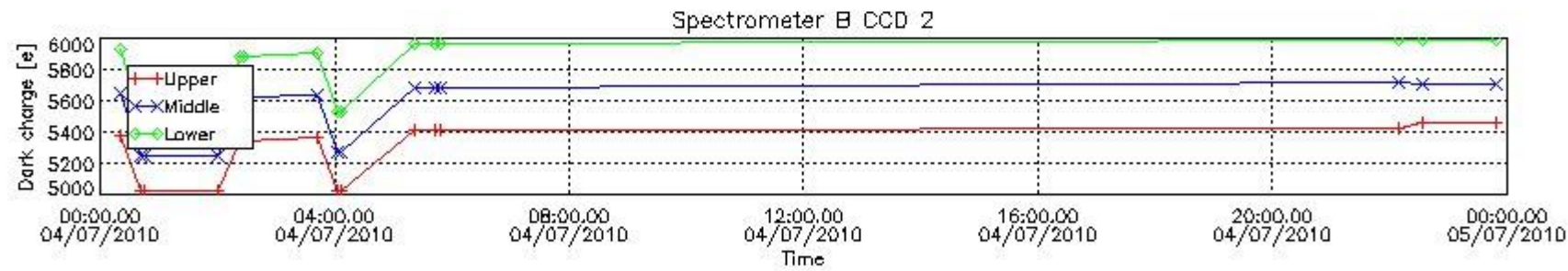
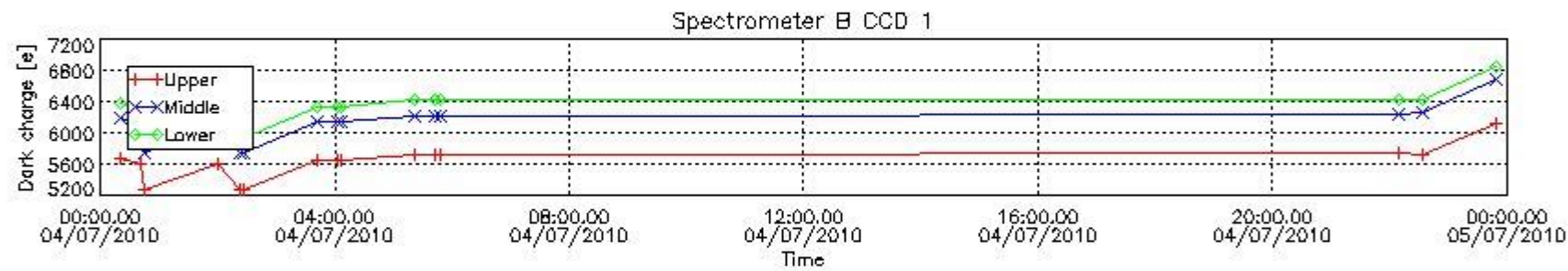
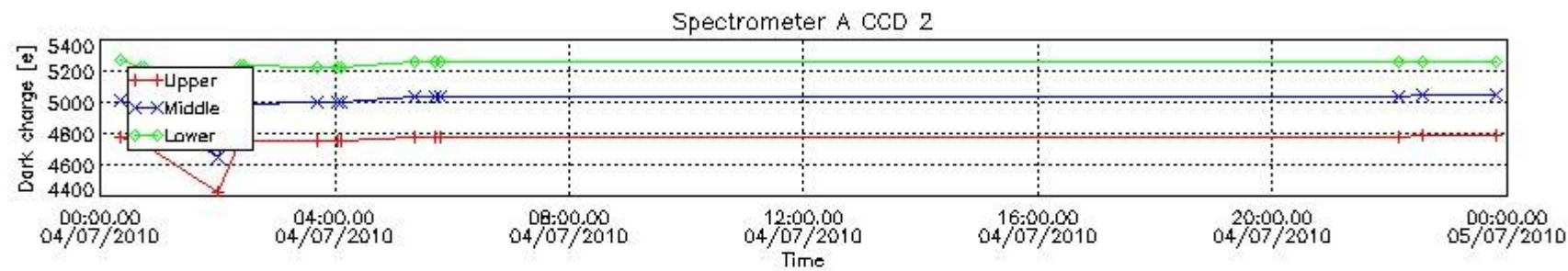
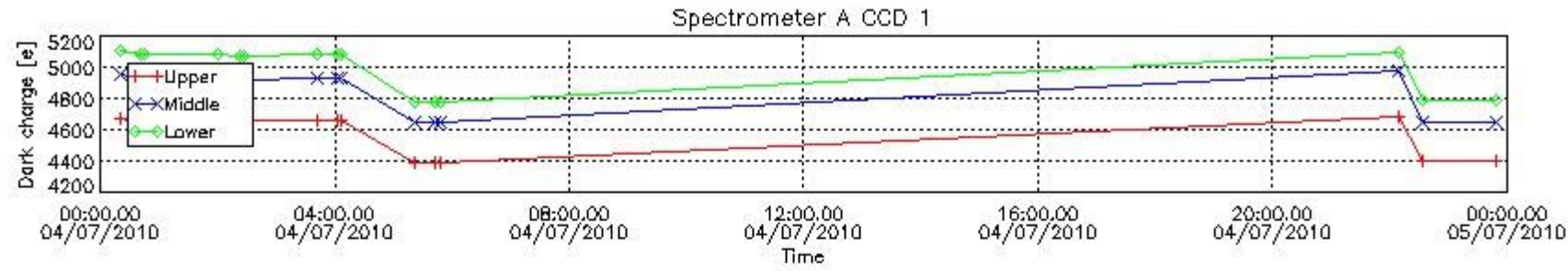
from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative 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_1PNPDE20100704_211511_000000442090_00487_43627_4319.N1	DC map used
GOM_TRA_1PNPDE20100704_212707_000000462090_00487_43627_4320.N1	DC map used
GOM_TRA_1PNPDE20100704_213409_000000392090_00487_43627_4321.N1	DC map used
GOM_TRA_1PNPDE20100704_213820_000000492090_00487_43627_4322.N1	DC map used
GOM_TRA_1PNPDE20100704_214141_000000602090_00487_43627_4323.N1	DC map used
GOM_TRA_1PNPDE20100704_214529_000000462090_00487_43627_4324.N1	DC map used
GOM_TRA_1PNPDE20100704_215257_000000502090_00487_43627_4325.N1	DC map used
GOM_TRA_1PNPDE20100704_215441_000000432090_00487_43627_4326.N1	DC map used
GOM_TRA_1PNPDE20100704_220123_000000682090_00487_43627_4327.N1	DC map used
GOM_TRA_1PNPDE20100704_220400_000000792090_00487_43627_4328.N1	DC map used
GOM_TRA_1PNPDE20100704_220839_000000612090_00487_43627_4329.N1	DC map used

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



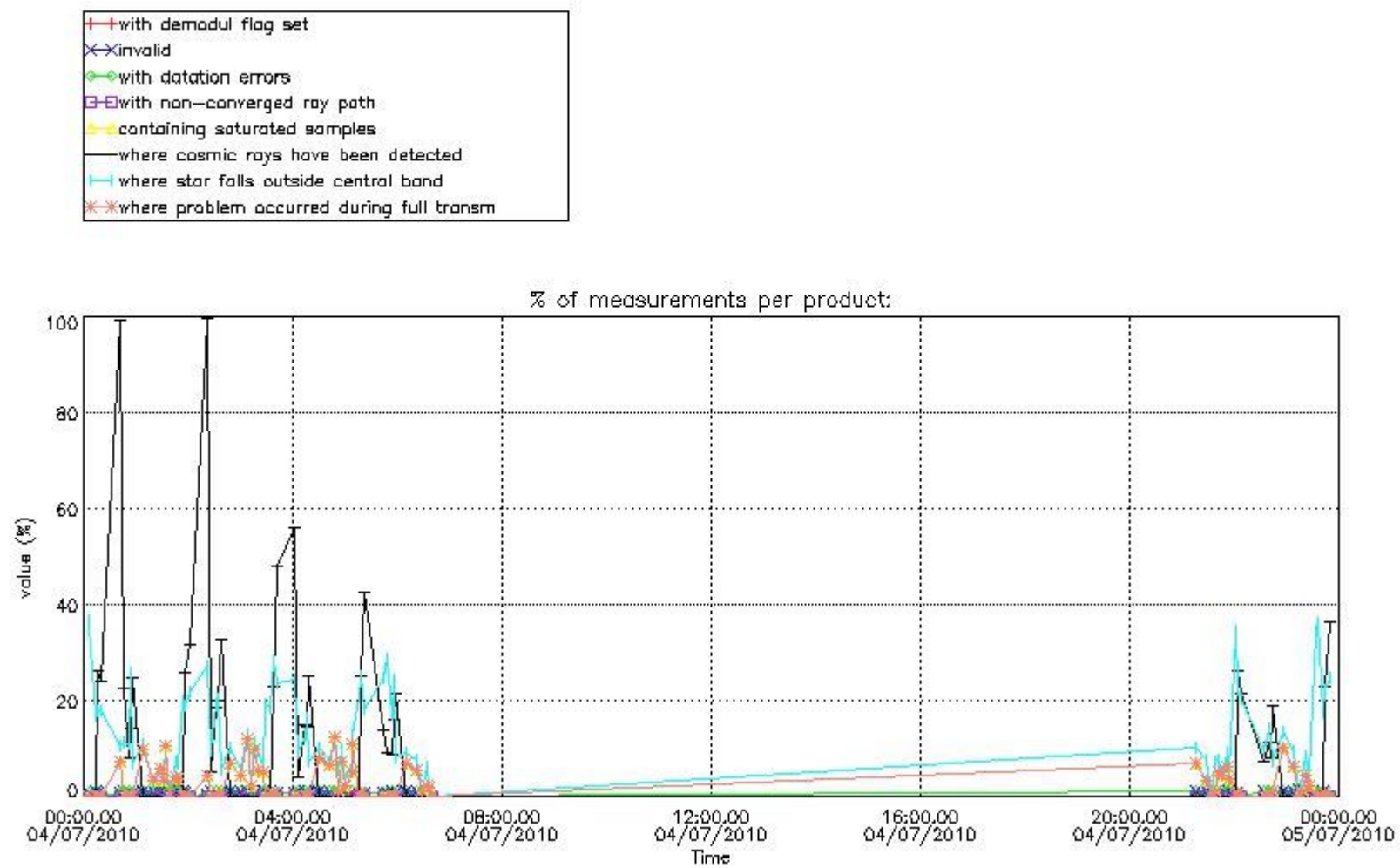
5. Demodulation flag and quality information monitoring

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.

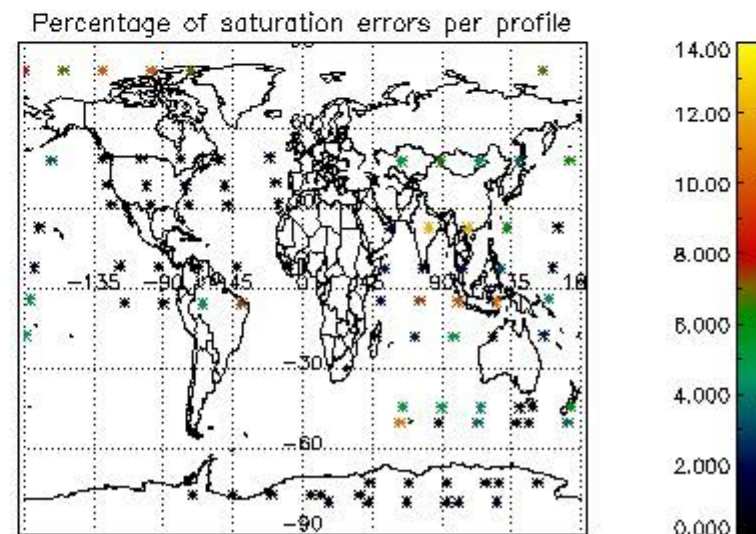
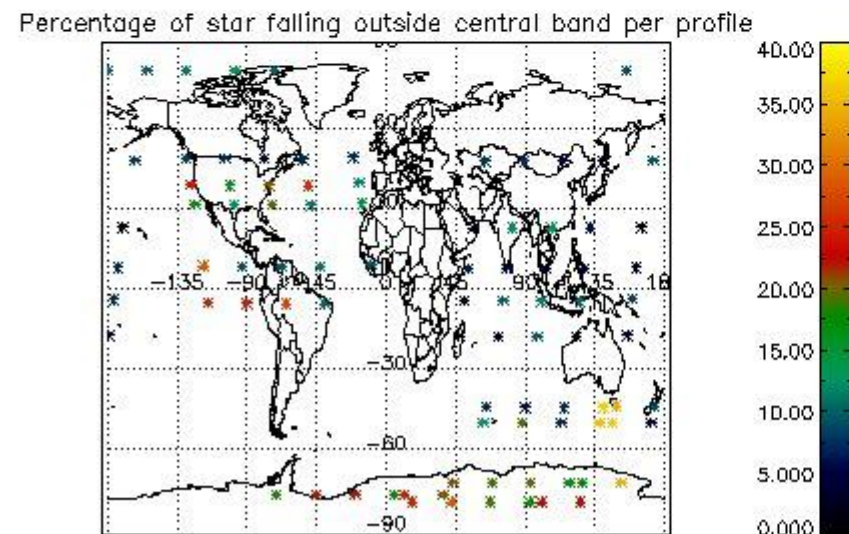
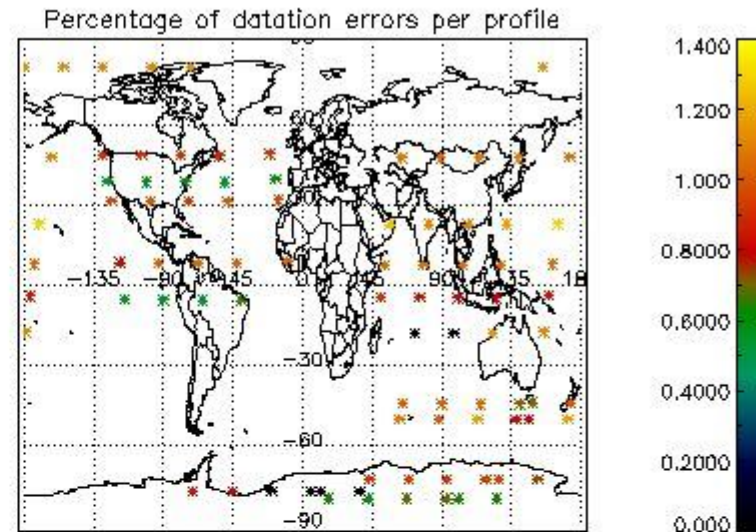
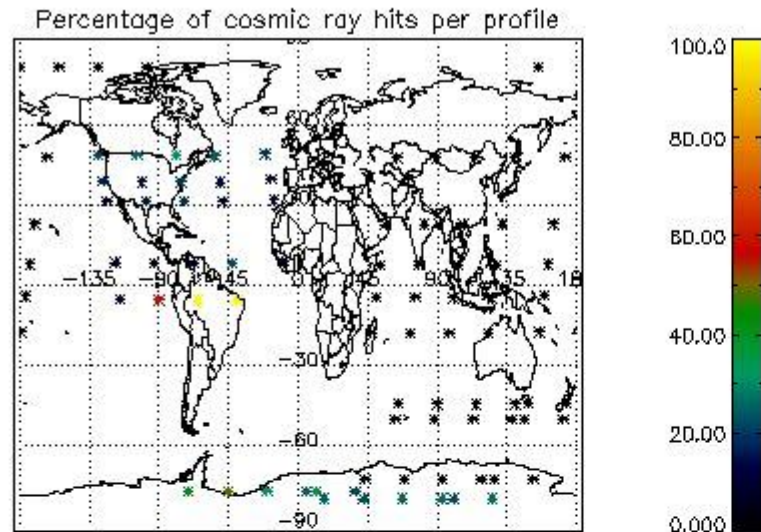
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	37.7778 %
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)



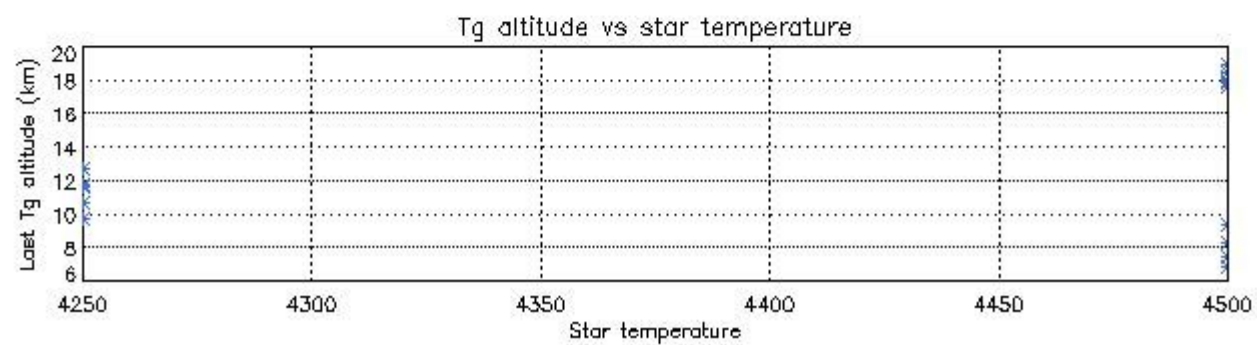
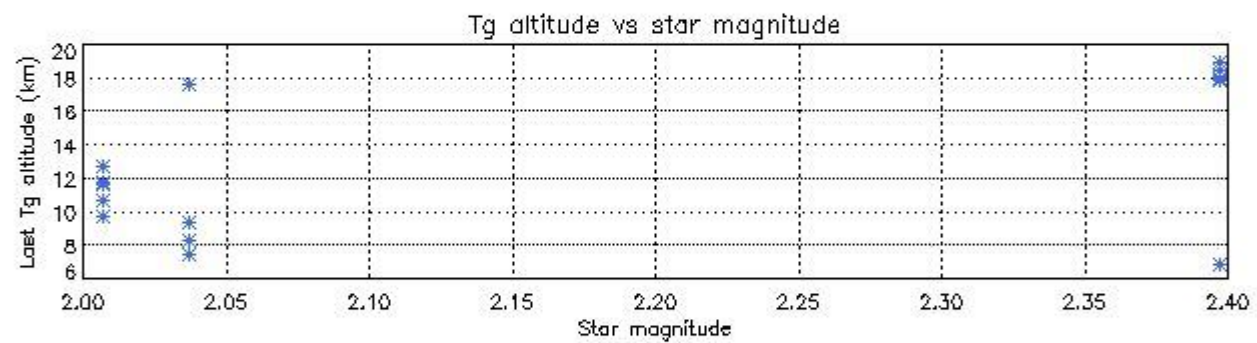
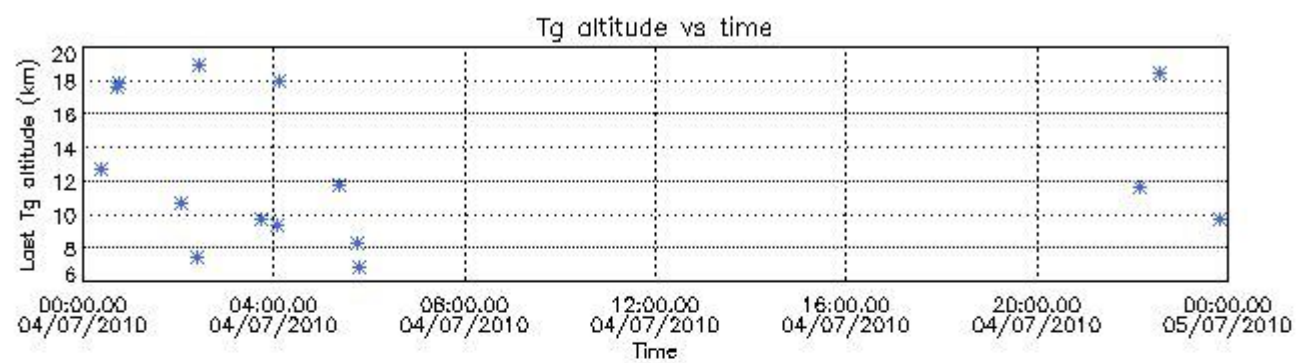
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.573	18.381	NaN
St. deviation:	4.3629	5.8697	NaN
Maximum:	18.910	27.044	NaN
Minimum:	6.8129	3.7429	NaN
Number of data:	15.000	54.000	NaN

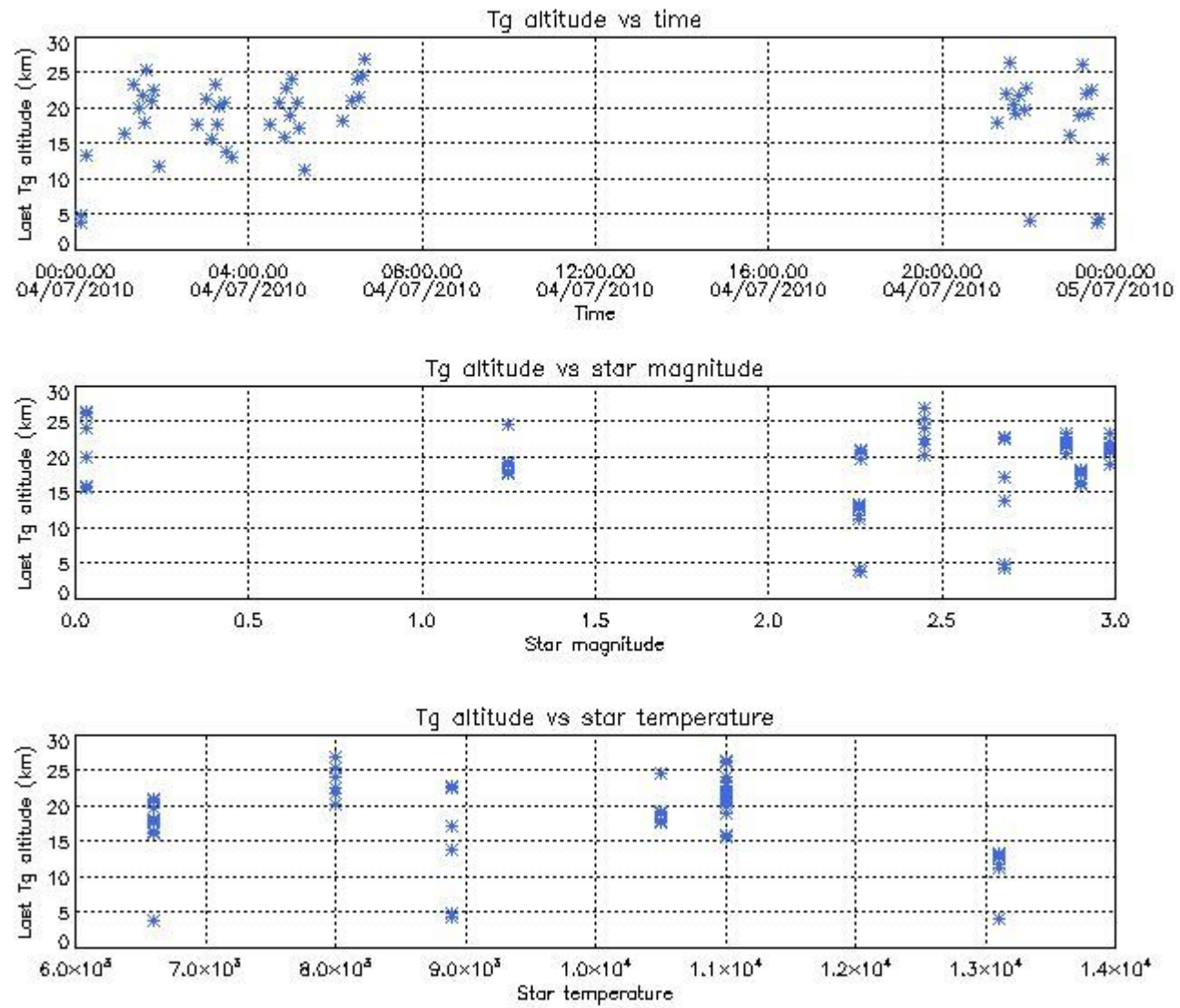
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

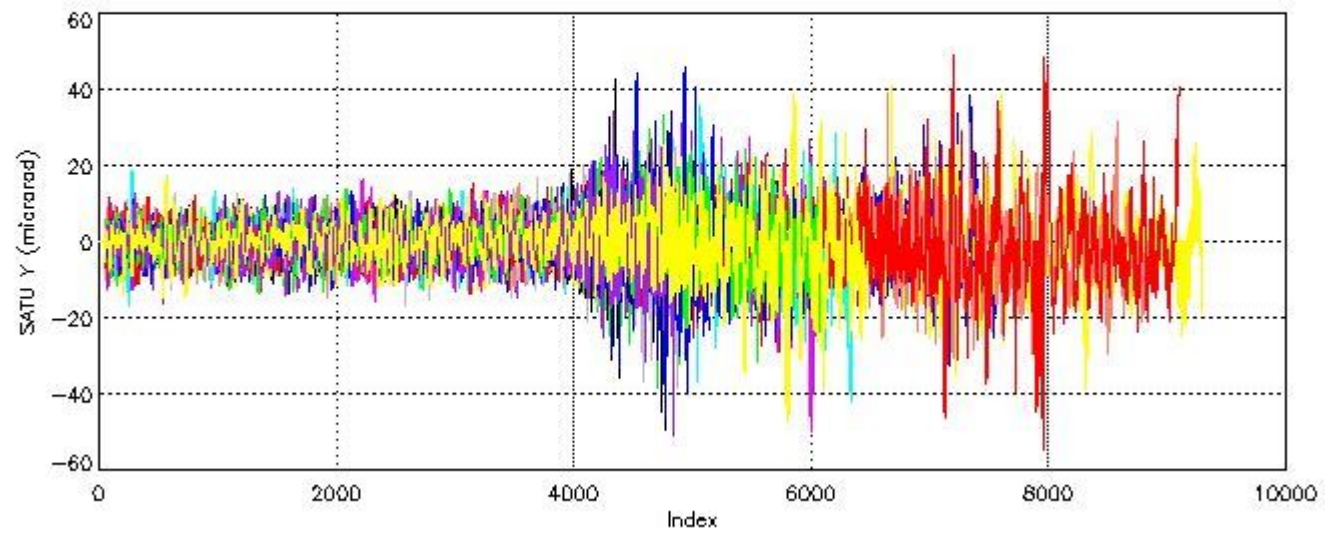
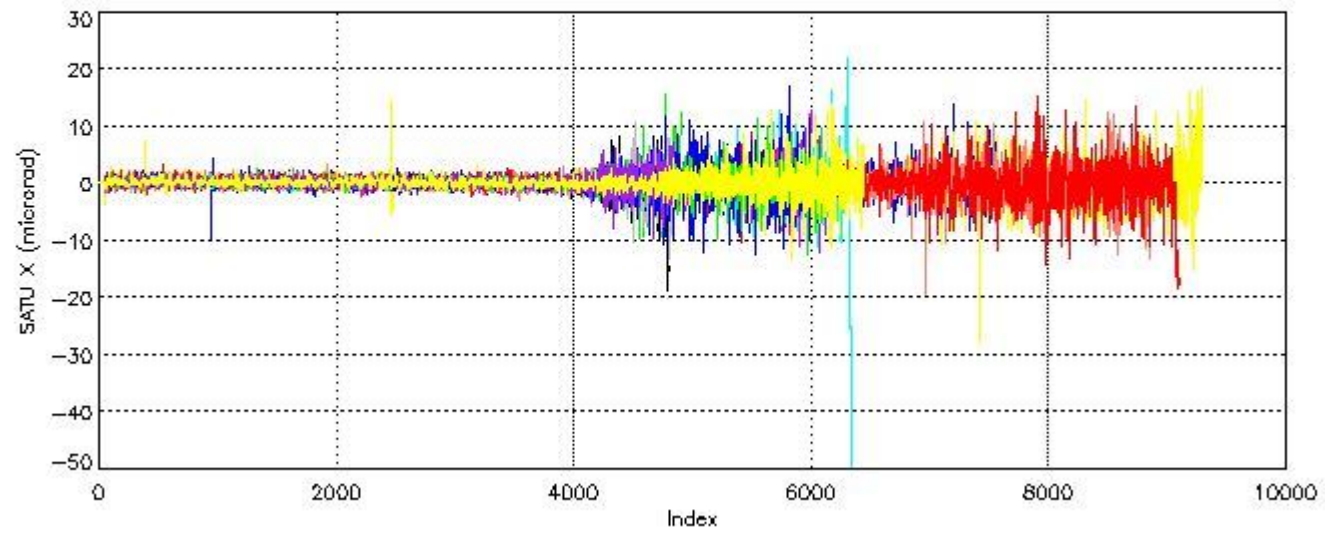


7. Star Acquisition and Tracking Unit (SATU)

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:	0.23622	-0.40823	0.23286	-0.47404
St. deviation:	0.53684	4.2201	0.93818	4.0888
Maximum:	7.5000	18.300	7.1000	16.000
Minimum:	-9.7000	-17.100	-6.8000	-18.400

Number of data:	19600.	19600.	62050.	62050.
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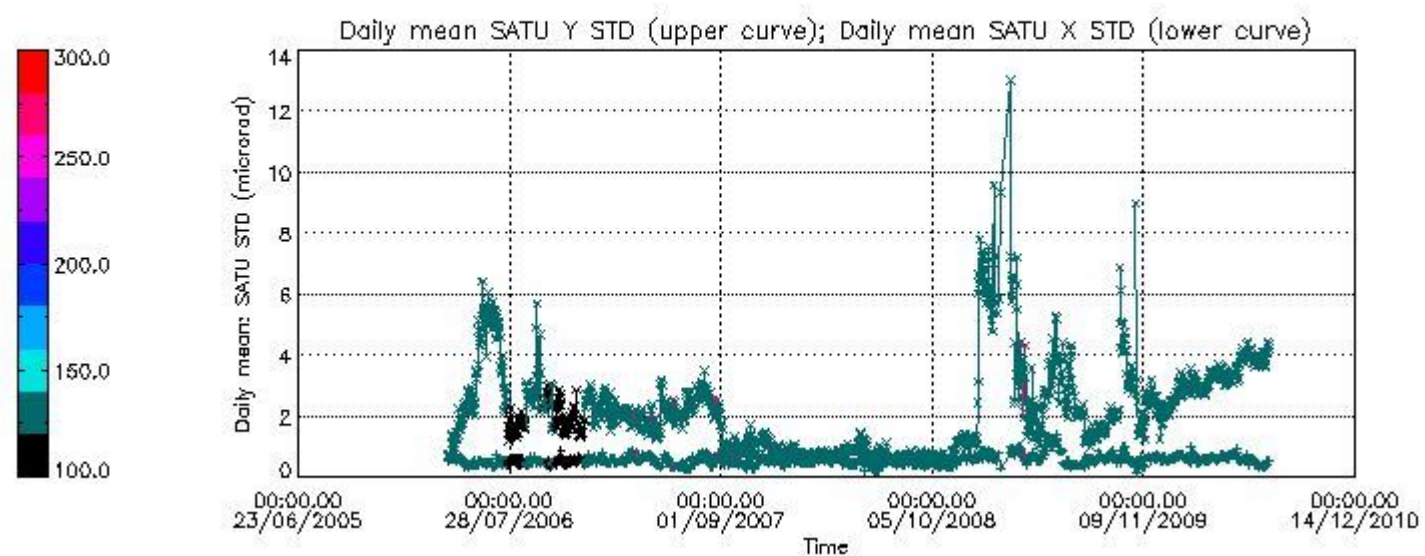
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

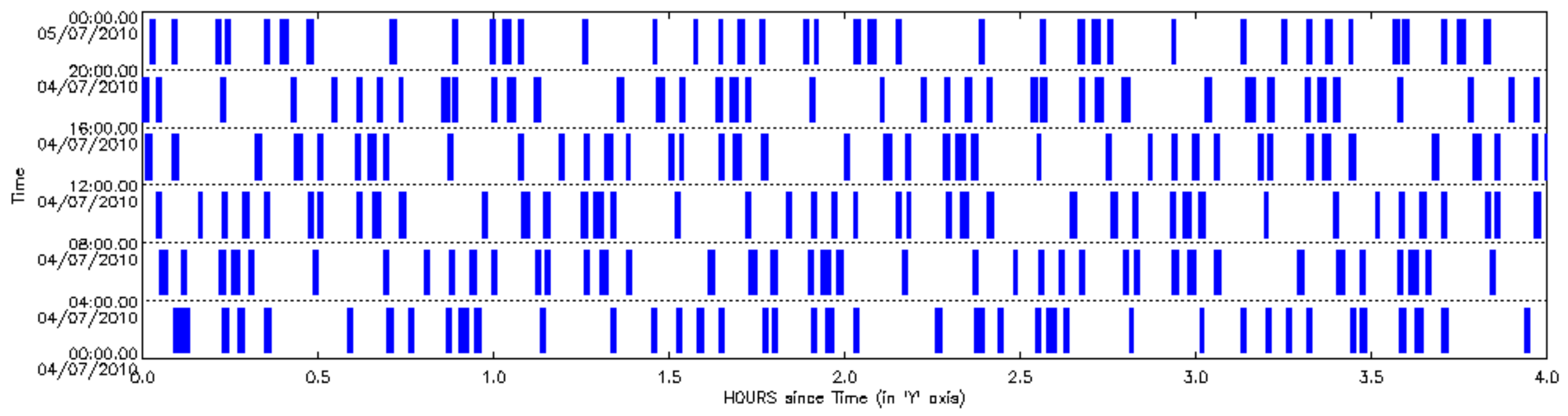
Lower curve: STD of SATU X axis

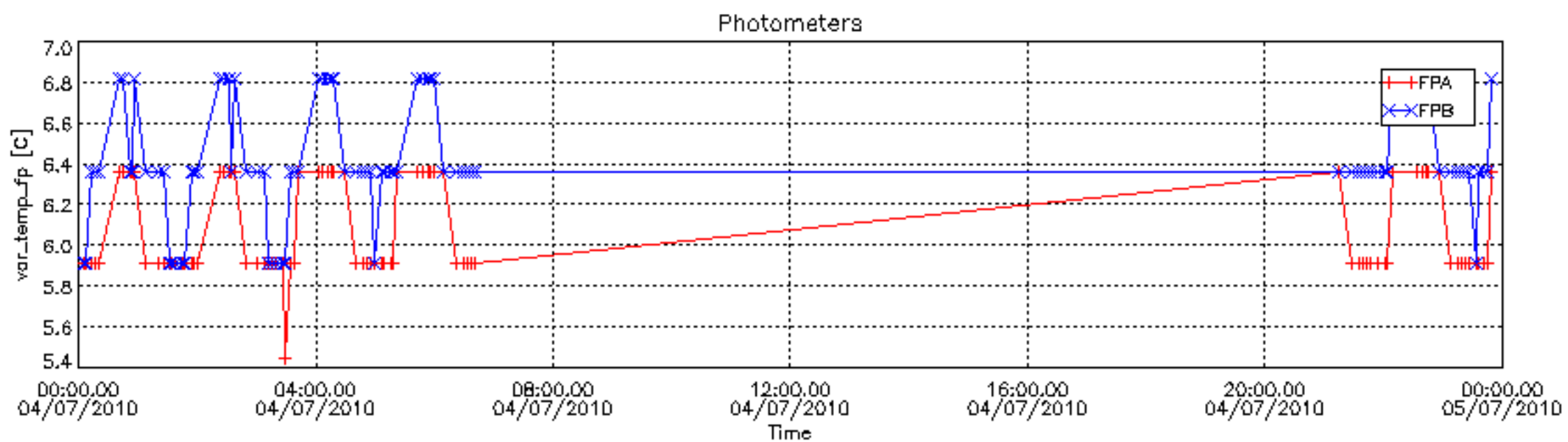
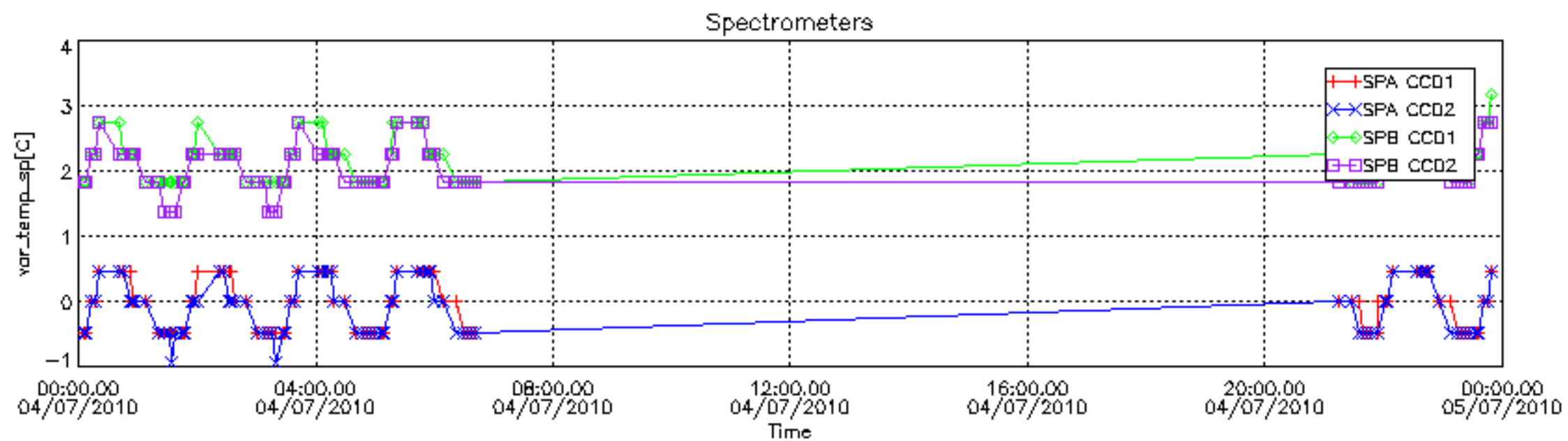


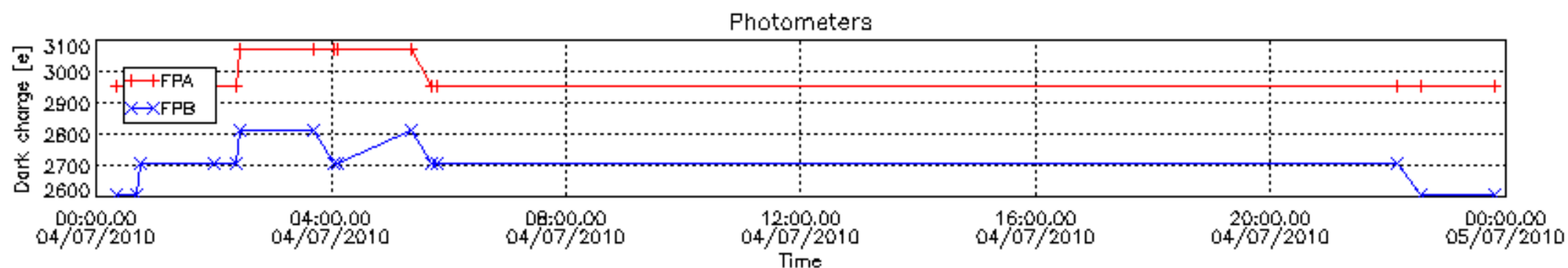
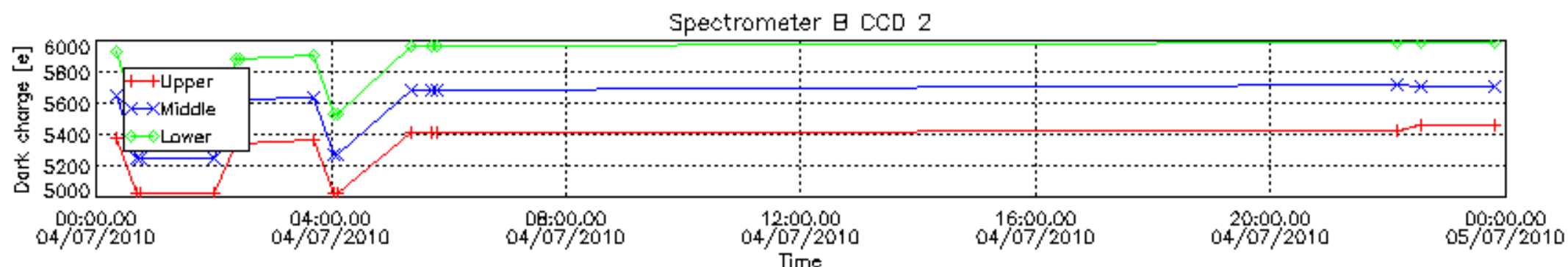
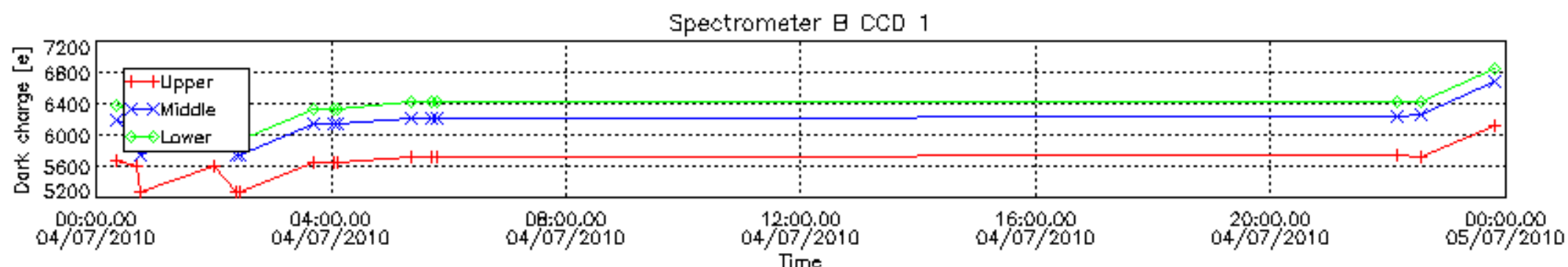
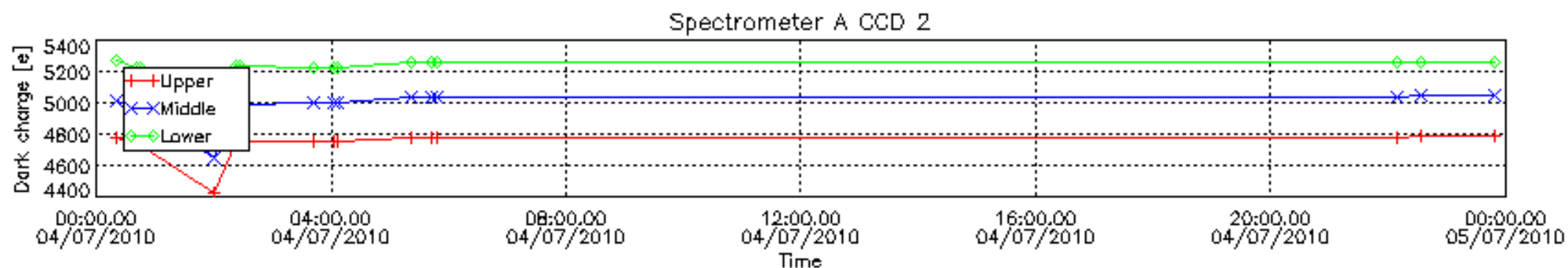
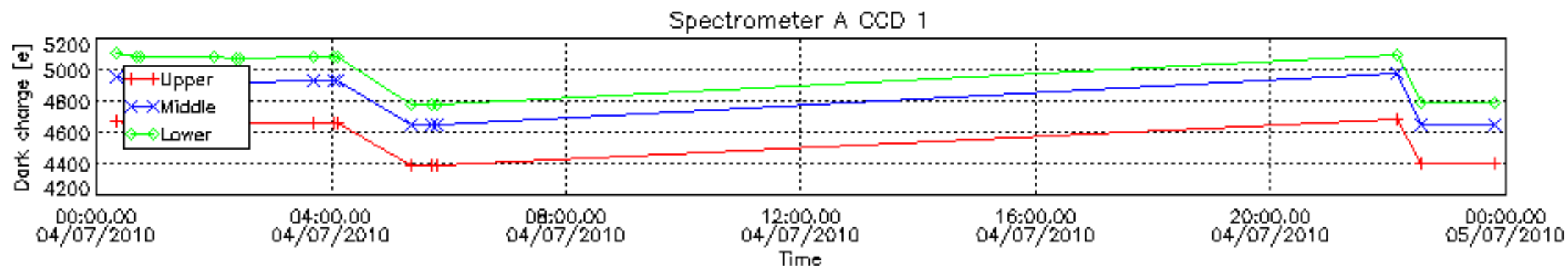
8. Auxiliary Data Files used for the production reported in section 2.4

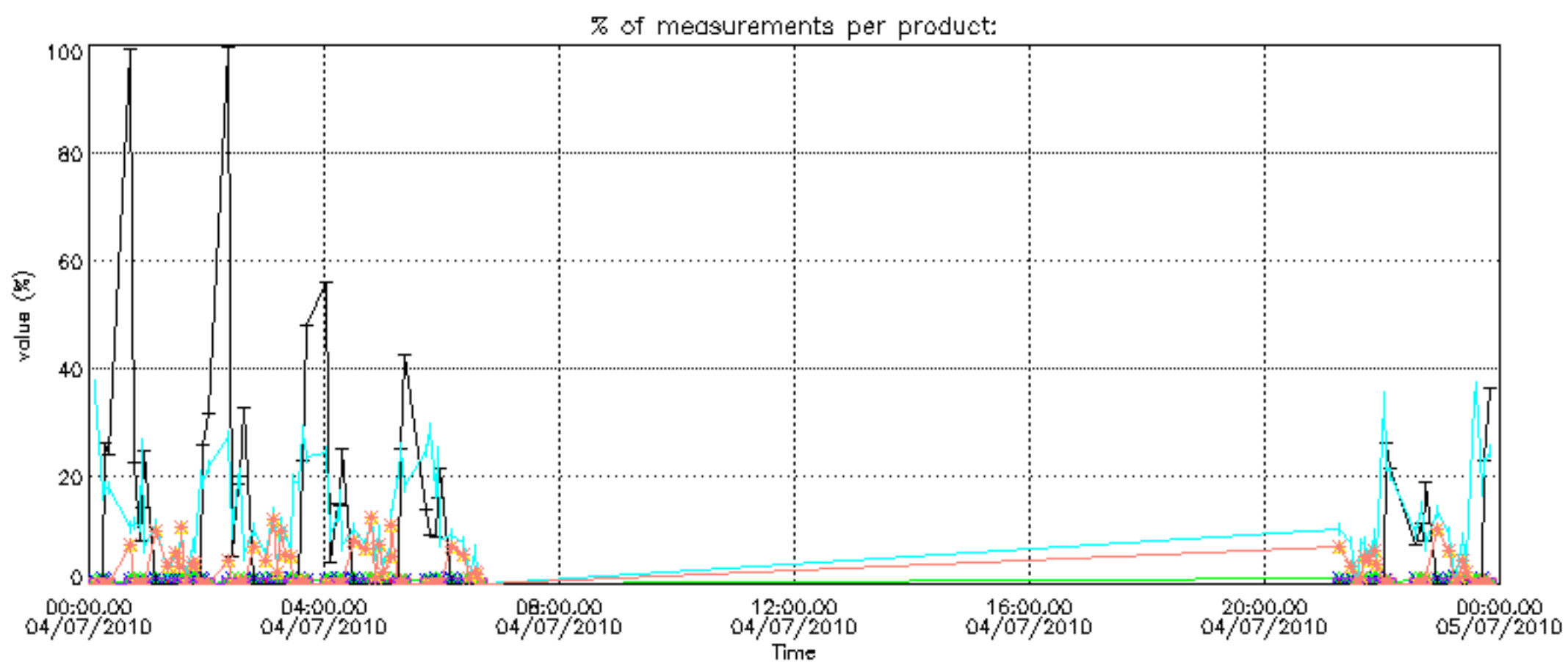
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	04-JUL-2010 00:05:17
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100629_101415_20100627_000000_20500101_000000	1	04-JUL-2010 00:05:17
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	04-JUL-2010 00:05:17
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	04-JUL-2010 00:05:17
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	04-JUL-2010 00:05:17
ECMWF_FILE	AUX_ECF_AXNECM20100703_054113_20100703_210000_20100704_090000	1	04-JUL-2010 00:05:17
ECMWF_FILE	AUX_ECF_AXNECM20100703_172115_20100704_030000_20100704_150000	33	04-JUL-2010 03:26:28
ECMWF_FILE	AUX_ECA_AXNECM20100704_052116_20100703_210000_20100704_090000	49	04-JUL-2010 05:07:03
ECMWF_FILE	AUX_ECF_AXNECM20100704_054115_20100704_210000_20100705_090000	65	04-JUL-2010 21:15:11
OPTIONAL_ECMWF_FILE	MISSING	1	04-JUL-2010 00:05:17
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100703_224912_000057382090_00473_43613_0677.N1	1	04-JUL-2010 00:05:17
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100704_003009_000054192090_00474_43614_0678.N1	6	04-JUL-2010 00:41:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100704_020547_000041442090_00475_43615_0679.N1	22	04-JUL-2010 02:22:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100704_032010_000057382090_00476_43616_0680.N1	33	04-JUL-2010 03:26:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100704_050107_000057382090_00477_43617_0681.N1	49	04-JUL-2010 05:07:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100704_210248_000041442090_00487_43627_0682.N1	65	04-JUL-2010 21:15:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100704_221711_000057382090_00487_43627_0683.N1	76	04-JUL-2010 22:33:29

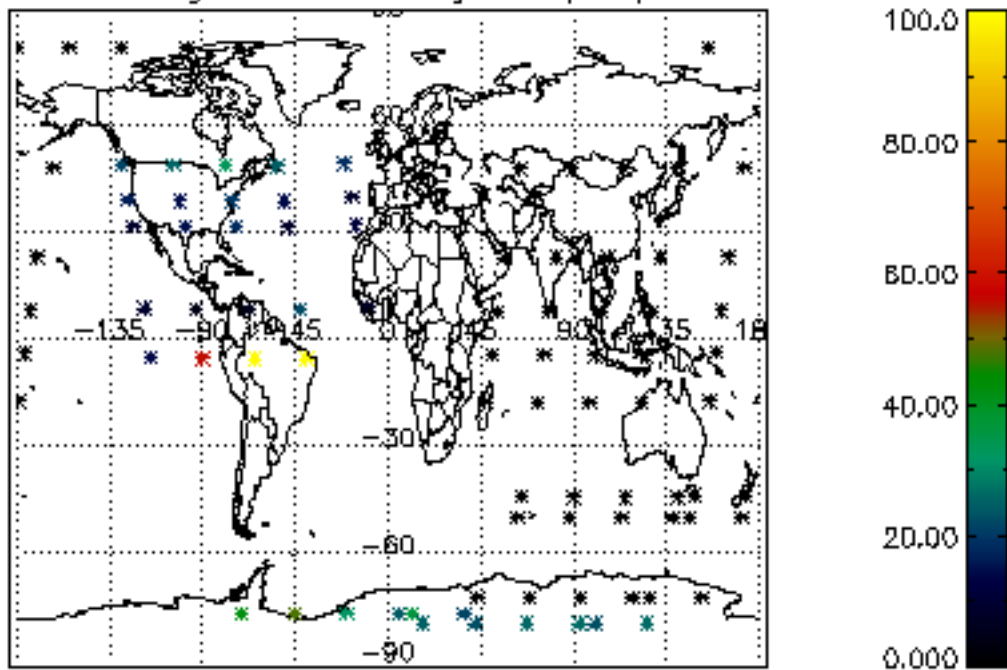




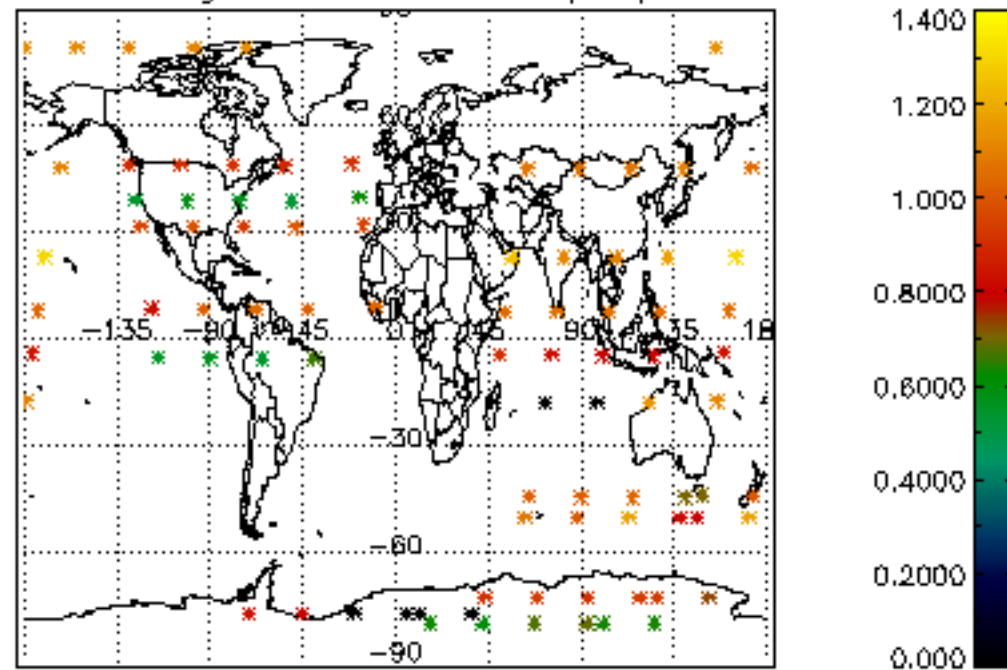




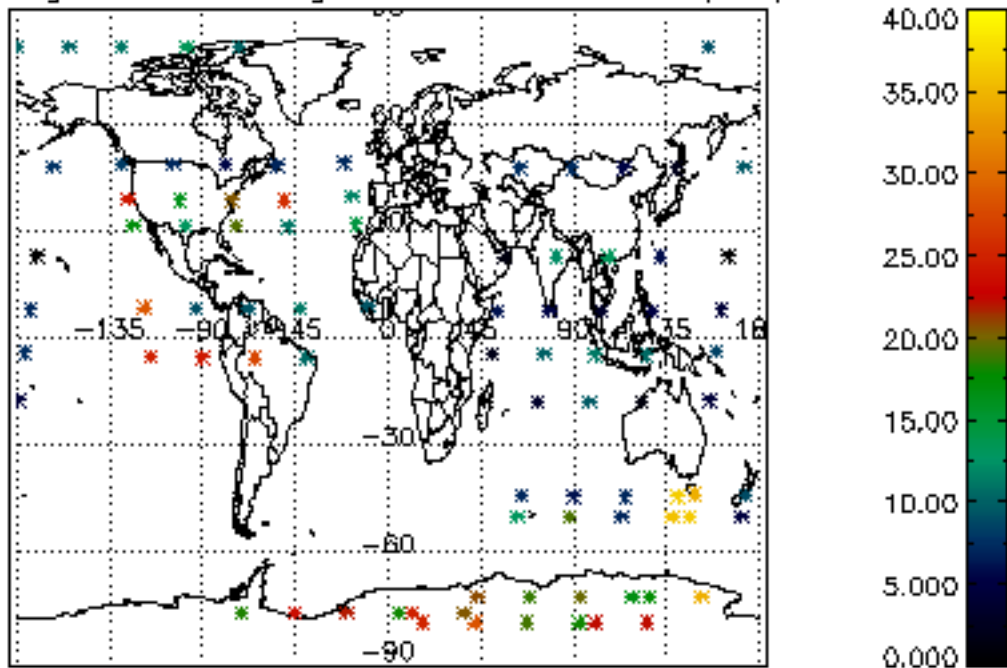
Percentage of cosmic ray hits per profile



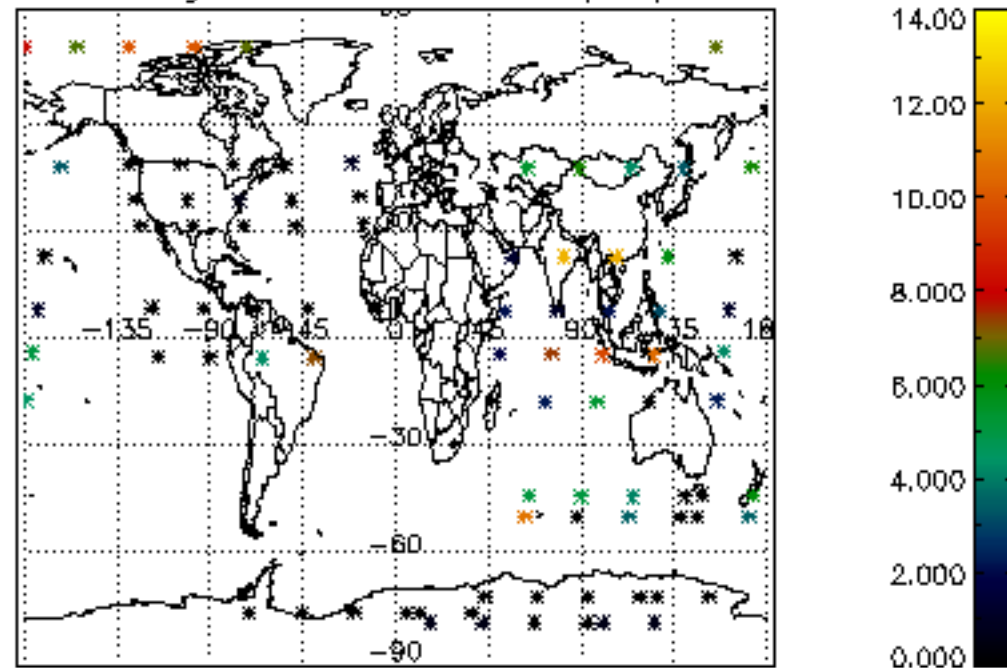
Percentage of datation errors per profile



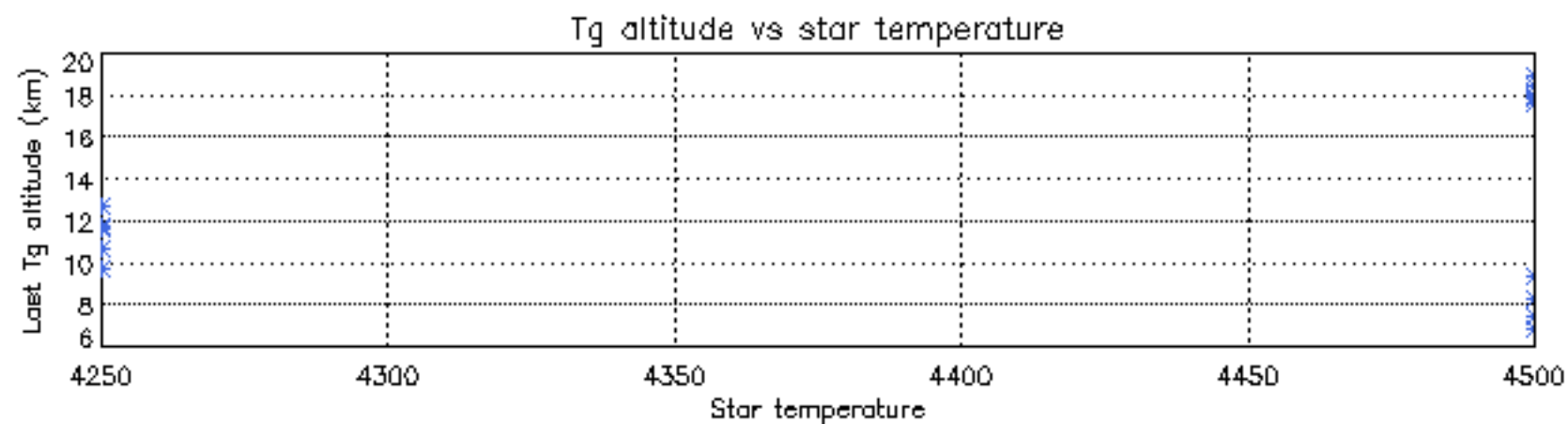
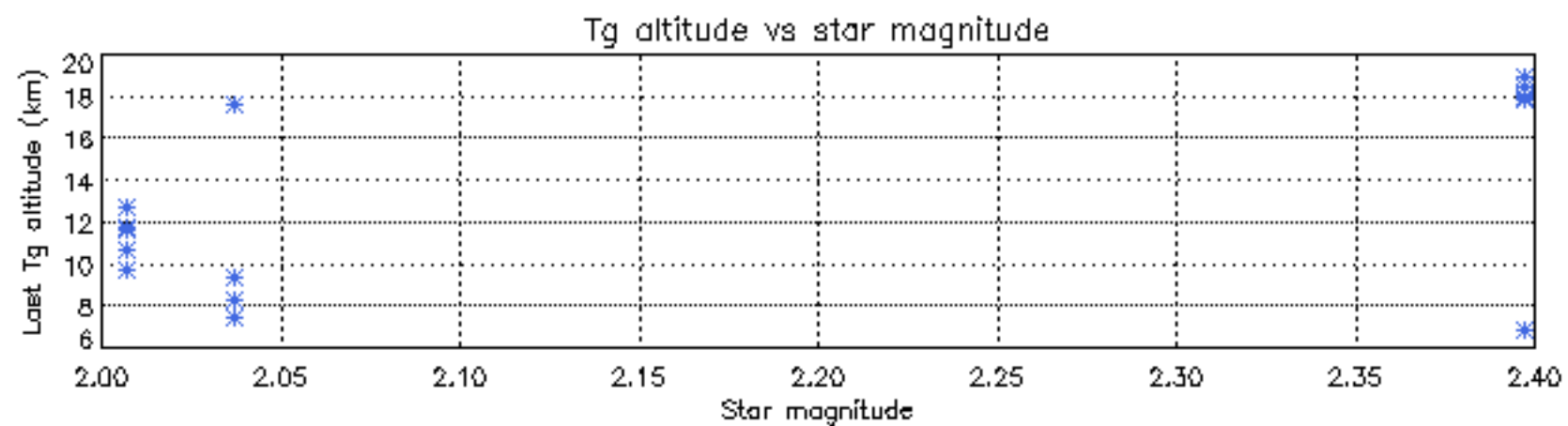
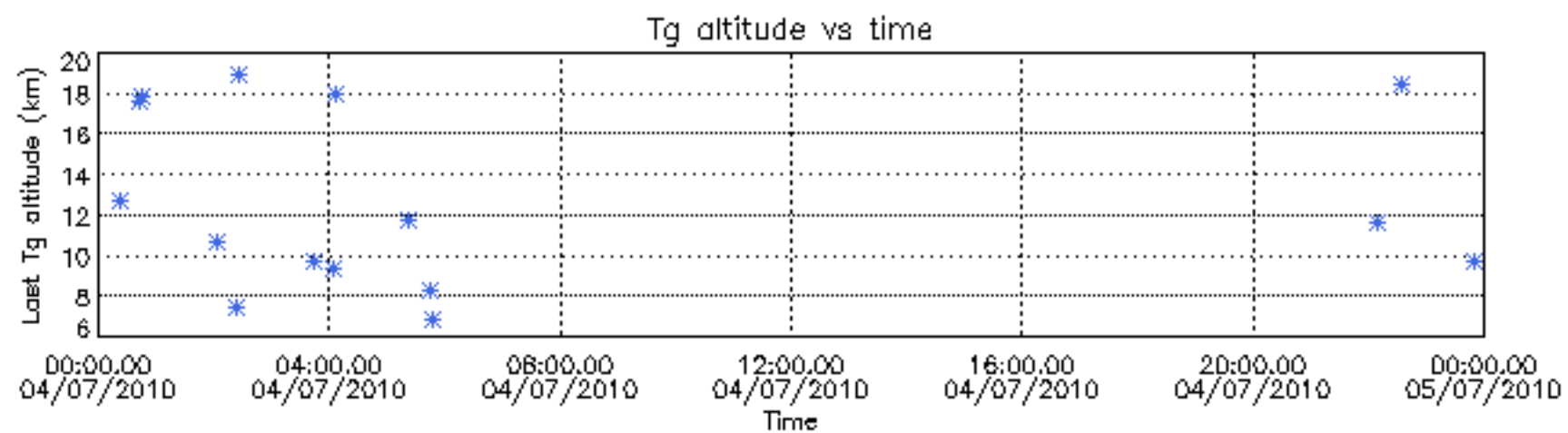
Percentage of star falling outside central band per profile



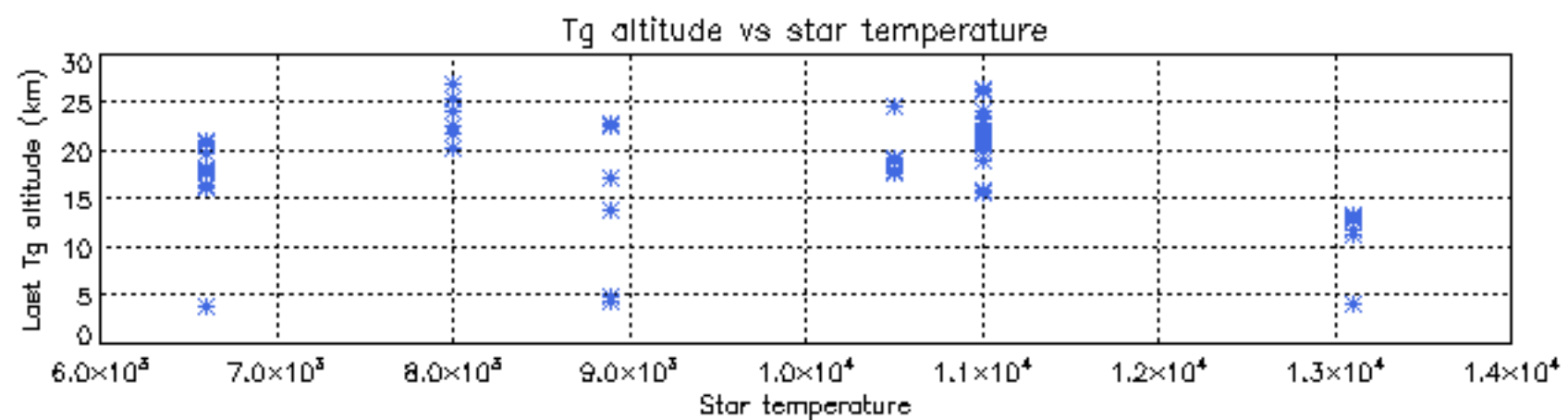
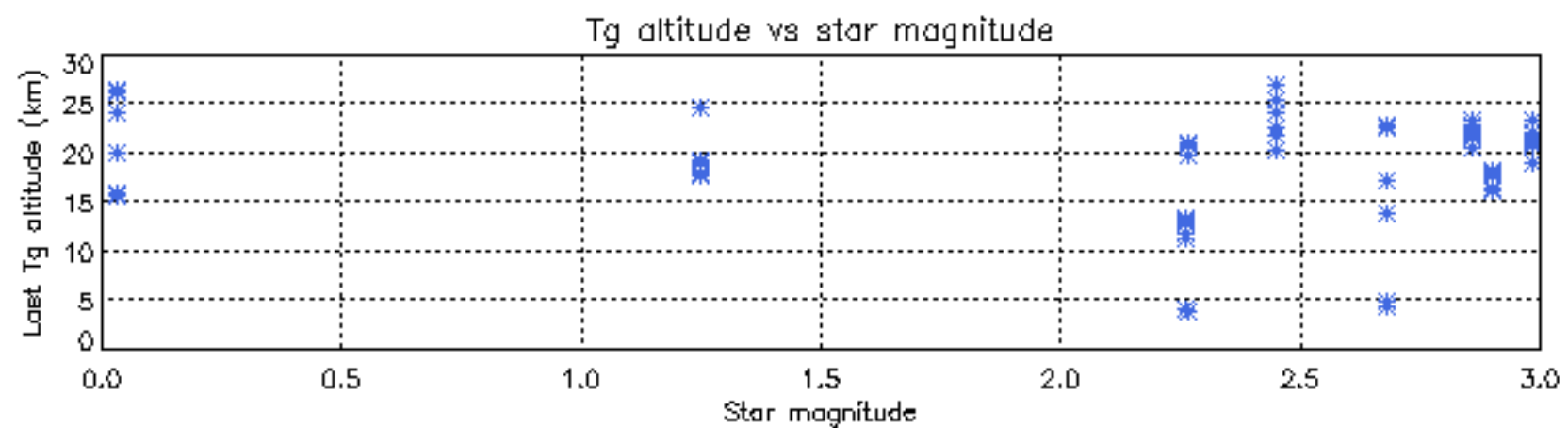
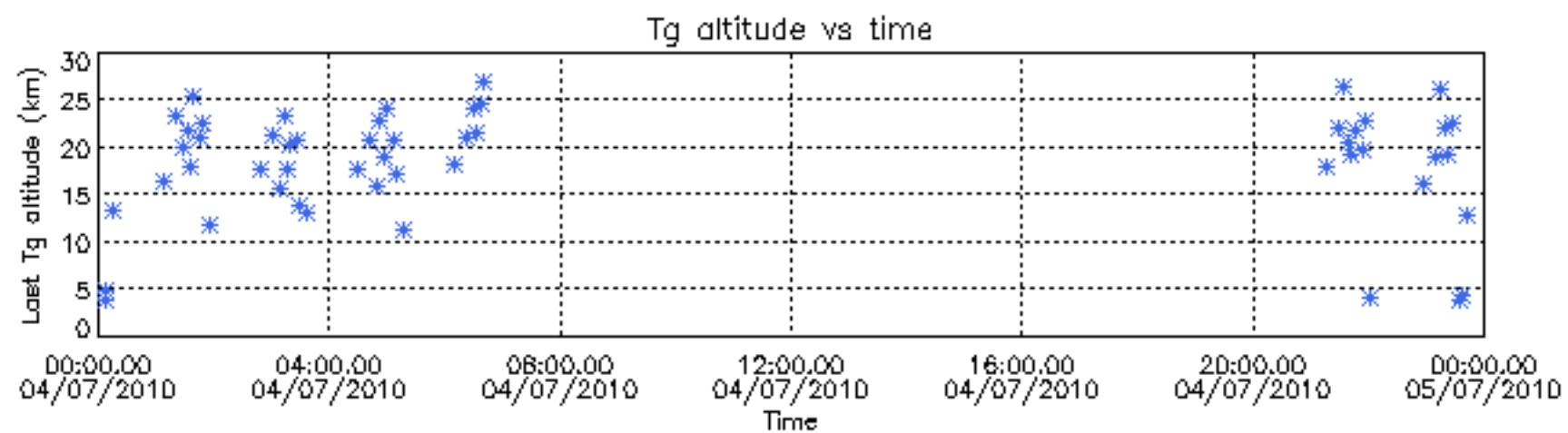
Percentage of saturation errors per profile

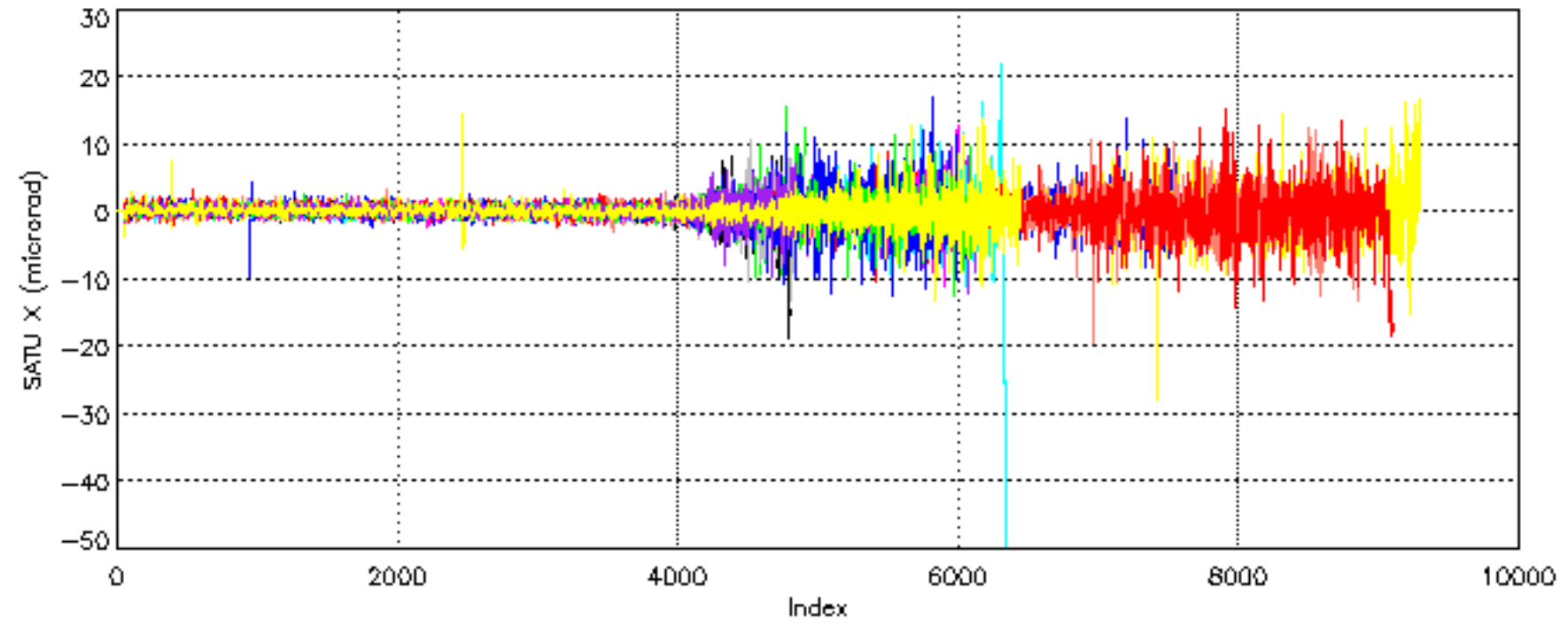


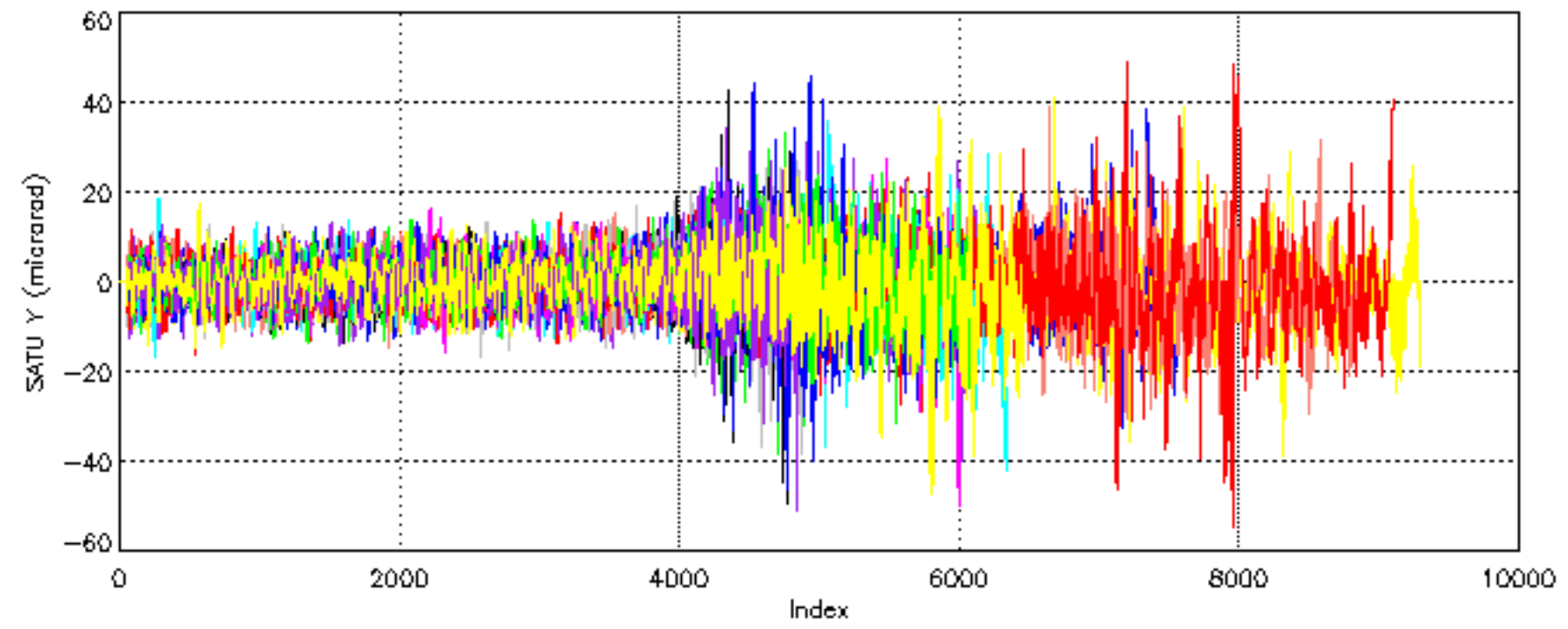
Tangent altitude at which the star is lost

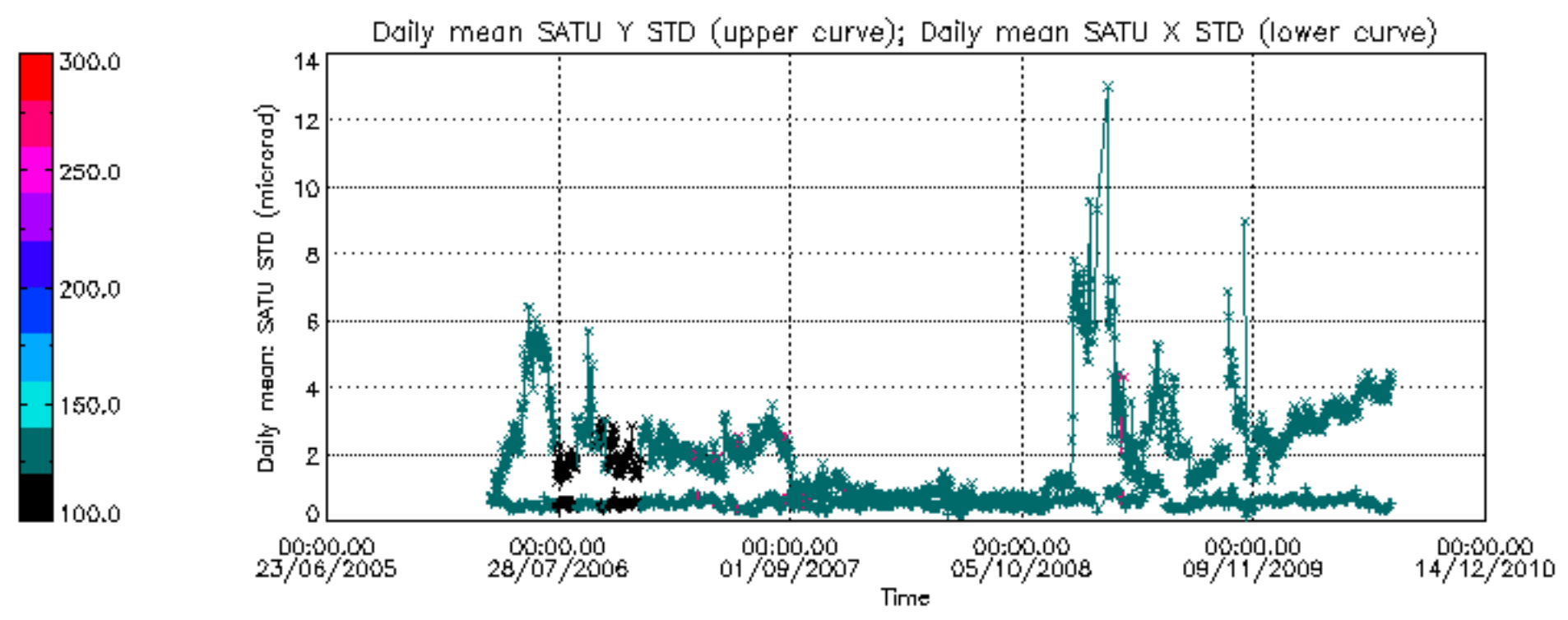


Tangent altitude at which the star is lost









/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
 7;-1059.7; 01-JUL-2010 03:40:56; Dark ; 48.5; 94; 92Alp Cet ; 2.53; 3100;occ; 97; 0;43573
 8; -534.6; 01-JUL-2010 03:49:41; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;43573
 9; 96.5; 01-JUL-2010 04:00:13; Dark ; 48.5; 84; Alp Phe ; 2.40; 4500;occ; 97; 0;43574
 10; 485.6; 01-JUL-2010 04:06:42; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;43574
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 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
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20100701_142653_000053912090_00440_43580_1806.N1
 1; 1481.9; 01-JUL-2010 14:26:53; Bright; 45.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 91; 0;43580
 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
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20100701_160729_000053922090_00441_43581_1807.N1
 1; 1481.9; 01-JUL-2010 16:07:29; Bright; 46.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 92; 0;43581
 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
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100702_024921_000056362090_00447_43587_0363.N1
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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

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100702_042957_000056362090_00448_43588_0364.N1

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

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100702_203743_000032652090_00458_43598_0365.N1

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

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100702_214502_000052662090_00458_43598_0366.N1

1; -512.1; 02-JUL-2010 21:45:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43598
 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
 14; 3869.5; 02-JUL-2010 22:58:04; Bright; 42.5; 110; 37Del Cas ; 2.68; 8900;occ; 85; 0;43599
 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

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100702_232539_000052592090_00459_43599_0367.N1

1; -511.2; 02-JUL-2010 23:25:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43599
 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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9; 2640.2; 03-JUL-2010 00:18:10; Bright; 41.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 82; 0;43600
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
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20100702_061033_000037852090_00449_43589_1810.N1
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2; -2163.0; 02-JUL-2010 06:12:08; Bright; 42.5; 110; 37Del Cas ; 2.68; 8900;occ; 85; 0;43589
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
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20100702_072515_000053402090_00450_43590_1811.N1
1; 2224.1; 02-JUL-2010 07:25:15; Bright; 47.5; 168; 17Zet Aql ; 2.99; 11000;occ; 95; 0;43590
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
8; 4265.4; 02-JUL-2010 07:59:16; Bright; 54.5; 73; 57Gam1And ; 2.26; 13100;occ; 109; 0;43590
9; 4419.4; 02-JUL-2010 08:01:50; Dark ; 70.5; 53; 43Bet And ; 2.05; 3300;occ; 141; 0;43590
10; 4684.9; 02-JUL-2010 08:06:16; Dark ; 58.0; 50; 13Alp Ari ; 2.01; 4250;occ; 116; 0;43590
11; 5516.5; 02-JUL-2010 08:20:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43590
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2; 1492.9; 05-JUL-2010 20:43:36; Bright; 43.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 87; 0;43641
3; 2200.9; 05-JUL-2010 20:55:24; Bright; 45.5; 168; 17Zet Aql ; 2.99; 11000;occ; 91; 0;43641
4; 2623.0; 05-JUL-2010 21:02:26; Bright; 39.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 79; 0;43641
5; 2869.3; 05-JUL-2010 21:06:33; Bright; 47.0; 144; 18Del Cyg ; 2.86; 11000;occ; 94; 0;43641
6; 3064.5; 05-JUL-2010 21:09:48; Bright; 54.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 108; 0;43641
7; 3299.8; 05-JUL-2010 21:13:43; Bright; 46.0; 89; 5Alp Cep ; 2.45; 8000;occ; 92; 0;43641
8; 3748.8; 05-JUL-2010 21:21:12; Bright; 48.0; 74; 11Bet Cas ; 2.27; 6600;occ; 96; 0;43641
9; 3856.2; 05-JUL-2010 21:22:59; Bright; 44.0; 110; 37Del Cas ; 2.68; 8900;occ; 88; 0;43641
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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2; 1493.2; 05-JUL-2010 22:24:12; Bright; 43.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 87; 0;43642
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
6; 3063.3; 05-JUL-2010 22:50:23; Bright; 55.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 110; 0;43642
7; 3299.1; 05-JUL-2010 22:54:18; Bright; 46.0; 89; 5Alp Cep ; 2.45; 8000;occ; 92; 0;43642
8; 3748.3; 05-JUL-2010 23:01:47; Bright; 46.0; 74; 11Bet Cas ; 2.27; 6600;occ; 92; 0;43642
9; 3855.9; 05-JUL-2010 23:03:35; Bright; 41.5; 110; 37Del Cas ; 2.68; 8900;occ; 83; 0;43642
10; 4260.9; 05-JUL-2010 23:10:20; Bright; 55.0; 73; 57Gam1And ; 2.26; 13100;occ; 110; 0;43642
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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2;-2176.7; 05-JUL-2010 06:17:39; Bright; 42.5; 110; 37Del Cas ; 2.68; 8900;occ; 85; 0;43632
3;-1773.9; 05-JUL-2010 06:24:22; Bright; 55.5; 73; 57Gam1And ; 2.26; 13100;occ; 111; 0;43632
4;-1616.6; 05-JUL-2010 06:26:59; Dark ; 87.5; 53; 43Bet And ; 2.05; 3300;occ; 175; 0;43632
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
7;-58.8; 05-JUL-2010 06:52:57; Dark ; 80.0; 52; 16Bet Cet ; 2.04; 4500;occ; 160; 0;43632
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
10; 679.0; 05-JUL-2010 07:05:15; Dark ; 82.0; 18; 24Alp PsA ; 1.17; 9700;occ; 164; 0;43633
11; 835.5; 05-JUL-2010 07:07:51; Dark ; 55.0; 172; Gam Gru ; 3.00; 13100;occ; 110; 0;43633
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2;-1775.1; 06-JUL-2010 00:50:56; Bright; 52.5; 73; 57Gam1And ; 2.26; 13100;occ; 105; 0;43643
3;-1617.0; 06-JUL-2010 00:53:34; Dark ; 81.5; 53; 43Bet And ; 2.05; 3300;occ; 163; 0;43643
4;-1331.6; 06-JUL-2010 00:58:19; Dark ; 68.5; 50; 13Alp Ari ; 2.01; 4250;occ; 137; 0;43643
5;-468.1; 06-JUL-2010 01:12:43; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;43643
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2; 2617.9; 06-JUL-2010 20:30:44; Bright; 41.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 82; 0;43655
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
10; 4709.1; 06-JUL-2010 21:05:35; Dark ; 63.5; 50; 13Alp Ari ; 2.01; 4250;occ; 127; 0;43655
11; 5015.6; 06-JUL-2010 21:10:42; Dark ; 51.5; 94; 92Alp Cet ; 2.53; 3100;occ; 103; 0;43655

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 3; 183.3; 06-JUL-2010 21:30:45; Dark ; 50.5; 84; Alp Phe ; 2.40; 4500;occ; 101; 0;43656
 4; 563.3; 06-JUL-2010 21:37:06; Dark ; 58.5; 63; Bet Gru ; 2.15; 2800;occ; 117; 0;43656
 5; 717.1; 06-JUL-2010 21:39:39; Dark ; 83.0; 18; 24Alp PsA ; 1.17; 9700;occ; 166; 0;43656
 6; 857.8; 06-JUL-2010 21:42:00; Dark ; 53.5; 172; Gam Gru ; 3.00; 13100;occ; 107; 0;43656
 7; 2194.6; 06-JUL-2010 22:04:17; Bright; 45.5; 168; 17Zet Aql ; 2.99; 11000;occ; 91; 0;43656
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 9; 2858.0; 06-JUL-2010 22:15:20; Bright; 48.5; 144; 18Del Cyg ; 2.86; 11000;occ; 97; 0;43656
 10; 3047.9; 06-JUL-2010 22:18:30; Bright; 58.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 116; 0;43656
 11; 3290.2; 06-JUL-2010 22:22:32; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;43656
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 13; 3851.5; 06-JUL-2010 22:31:54; Bright; 42.0; 110; 37Del Cas ; 2.68; 8900;occ; 84; 0;43656
 14; 4259.5; 06-JUL-2010 22:38:42; Bright; 56.5; 73; 57Gam1And ; 2.26; 13100;occ; 113; 0;43656
 15; 4418.9; 06-JUL-2010 22:41:21; Dark ; 82.0; 53; 43Bet And ; 2.05; 3300;occ; 164; 0;43656
 16; 4709.9; 06-JUL-2010 22:46:12; Dark ; 66.0; 50; 13Alp Ari ; 2.01; 4250;occ; 132; 0;43656
 17; 5015.8; 06-JUL-2010 22:51:18; Dark ; 50.5; 94; 92Alp Cet ; 2.53; 3100;occ; 101; 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
 4; 564.2; 06-JUL-2010 23:17:42; Dark ; 61.5; 63; Bet Gru ; 2.15; 2800;occ; 123; 0;43657
 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
 9; 2857.0; 06-JUL-2010 23:55:55; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;43657
 10; 3046.3; 06-JUL-2010 23:59:05; Bright; 58.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 116; 0;43657
 11; 3289.0; 07-JUL-2010 00:03:07; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;43657
 12; 3739.2; 07-JUL-2010 00:10:37; Bright; 48.5; 74; 11Bet Cas ; 2.27; 6600;occ; 97; 0;43657
 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
 15; 4418.4; 07-JUL-2010 00:21:57; Dark ; 76.0; 53; 43Bet And ; 2.05; 3300;occ; 152; 0;43657
 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
 10; 3045.6; 07-JUL-2010 01:39:40; Bright; 81.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 162; 0;43658
 11; 3288.6; 07-JUL-2010 01:43:43; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;43658
 12; 3738.8; 07-JUL-2010 01:51:13; Bright; 50.5; 74; 11Bet Cas ; 2.27; 6600;occ; 101; 0;43658
 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
 17; 5017.2; 07-JUL-2010 02:12:31; Dark ; 55.0; 94; 92Alp Cet ; 2.53; 3100;occ; 110; 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
 10; 3288.0; 07-JUL-2010 03:24:18; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;43659

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 2; -2185.9; 07-JUL-2010 03:33:40; Bright; 42.5; 110; 37Del Cas ; 2.68; 8900;occ; 85; 0;43659

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3;-1776.4; 07-JUL-2010 03:40:30; Bright; 51.5; 73; 57Gam1And ; 2.26; 13100;occ; 103; 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
15; 2855.0; 07-JUL-2010 04:57:41; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95; 0;43660
16; 3043.1; 07-JUL-2010 05:00:49; Bright; 55.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 111; 0;43660
17; 3287.6; 07-JUL-2010 05:04:54; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;43660
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3;-1776.7; 07-JUL-2010 05:21:05; Bright; 55.0; 73; 57Gam1And ; 2.26; 13100;occ; 110; 0;43660
4;-1617.2; 07-JUL-2010 05:23:45; Dark ; 71.0; 53; 43Bet And ; 2.05; 3300;occ; 142; 0;43660
5;-1324.5; 07-JUL-2010 05:28:38; Dark ; 71.0; 50; 13Alp Ari ; 2.01; 4250;occ; 142; 0;43660
6;-1017.7; 07-JUL-2010 05:33:44; Dark ; 52.0; 94; 92Alp Cet ; 2.53; 3100;occ; 104; 0;43660
7; -450.5; 07-JUL-2010 05:43:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43660
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13; 2193.0; 07-JUL-2010 06:27:15; Bright; 44.5; 168; 17Zet Aql ; 2.99; 11000;occ; 89; 0;43661
14; 2619.9; 07-JUL-2010 06:34:22; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;43661
15; 2854.5; 07-JUL-2010 06:38:17; Bright; 46.0; 144; 18Del Cyg ; 2.86; 11000;occ; 92; 0;43661
16; 3041.8; 07-JUL-2010 06:41:24; Bright; 57.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 115; 0;43661
17; 3287.1; 07-JUL-2010 06:45:29; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;43661
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3; 3032.2; 07-JUL-2010 21:46:38; Bright; 56.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 112; 0;43670
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19;	4645.7;	22-JUL-2010	02:35:06;	Dark	;	46.0;	146;	25Eta	Tau	;	2.87;	15200;	occ;	92;	0;	43873
20;	4740.7;	22-JUL-2010	02:36:41;	Dark	;	45.0;	13;	87Alp	Tau	;	0.87;	3800;	occ;	90;	0;	43873
21;	5332.5;	22-JUL-2010	02:46:33;	Dark	;	47.0;	165;	34Gam	Eri	;	2.95;	3200;	occ;	94;	0;	43873
22;	5535.2;	22-JUL-2010	02:49:55;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	43873
23;	5884.8;	22-JUL-2010	02:55:45;	Dark	;	43.0;	157;	The1Eri		;	2.91;	9300;	occ;	86;	0;	43873
24;	6245.2;	22-JUL-2010	03:01:46;	Dark	;	53.5;	9;	Alp	Eri	;	0.45;	24000;	occ;	107;	0;	43874
25;	6466.9;	22-JUL-2010	03:05:27;	Dark	;	58.5;	84;	Alp	Phe	;	2.40;	4500;	occ;	117;	0;	43874
26;	6686.0;	22-JUL-2010	03:09:06;	Dark	;	44.0;	148;	Alp	Tuc	;	2.88;	4100;	occ;	88;	0;	43874
27;	6783.9;	22-JUL-2010	03:10:44;	Dark	;	54.5;	63;	Bet	Gru	;	2.15;	2800;	occ;	109;	0;	43874
28;	6870.4;	22-JUL-2010	03:12:11;	Dark	;	46.5;	31;	Alp	Gru	;	1.73;	15200;	occ;	93;	0;	43874
29;	7063.9;	22-JUL-2010	03:15:24;	Dark	;	49.0;	172;	Gam	Gru	;	3.00;	13100;	occ;	98;	0;	43874
30;	8116.2;	22-JUL-2010	03:32:56;	Bright;		42.5;	11;	53Alp	Aql	;	0.76;	8000;	occ;	85;	0;	43874
31;	8606.7;	22-JUL-2010	03:41:07;	Bright;		41.0;	5;	3Alp	Lyr	;	0.03;	11000;	occ;	82;	0;	43874
32;	8773.9;	22-JUL-2010	03:43:54;	Bright;		39.5;	144;	18Del	Cyg	;	2.86;	11000;	occ;	79;	0;	43874
33;	8887.1;	22-JUL-2010	03:45:47;	Bright;		45.0;	19;	50Alp	Cyg	;	1.25;	10500;	occ;	90;	0;	43874

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2;	3160.4;	22-JUL-2010	03:50:57;	Bright;		40.5;	89;	5Alp	Cep	;	2.45;	8000;	occ;	81;	0;	43874
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5;	4109.0;	22-JUL-2010	04:06:45;	Bright;		63.0;	35;	33Alp	Per	;	1.79;	6250;	occ;	126;	0;	43874
6;	4292.2;	22-JUL-2010	04:09:48;	Bright;		52.0;	79;	26Bet	Per	;	2.31;	13100;	occ;	104;	0;	43874
7;	4481.1;	22-JUL-2010	04:12:57;	Dark	;	44.0;	150;	44Zet	Per	;	2.89;	28000;	occ;	88;	0;	43874
8;	4646.1;	22-JUL-2010	04:15:42;	Dark	;	45.0;	146;	25Eta	Tau	;	2.87;	15200;	occ;	90;	0;	43874
9;	4741.1;	22-JUL-2010	04:17:17;	Dark	;	51.0;	13;	87Alp	Tau	;	0.87;	3800;	occ;	102;	0;	43874
10;	5333.2;	22-JUL-2010	04:27:09;	Dark	;	50.5;	165;	34Gam	Eri	;	2.95;	3200;	occ;	101;	0;	43874
11;	5536.4;	22-JUL-2010	04:30:33;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	43874
12;	5885.8;	22-JUL-2010	04:36:22;	Dark	;	43.5;	157;	The1Eri		;	2.91;	9300;	occ;	87;	0;	43874
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14;	6467.8;	22-JUL-2010	04:46:04;	Dark	;	53.5;	84;	Alp	Phe	;	2.40;	4500;	occ;	107;	0;	43875
15;	6686.7;	22-JUL-2010	04:49:43;	Dark	;	41.0;	148;	Alp	Tuc	;	2.88;	4100;	occ;	82;	0;	43875
16;	6784.8;	22-JUL-2010	04:51:21;	Dark	;	52.5;	63;	Bet	Gru	;	2.15;	2800;	occ;	105;	0;	43875
17;	6871.4;	22-JUL-2010	04:52:48;	Dark	;	45.0;	31;	Alp	Gru	;	1.73;	15200;	occ;	90;	0;	43875
18;	7064.6;	22-JUL-2010	04:56:01;	Dark	;	48.5;	172;	Gam	Gru	;	3.00;	13100;	occ;	97;	0;	43875
19;	8115.9;	22-JUL-2010	05:13:32;	Bright;		42.0;	11;	53Alp	Aql	;	0.76;	8000;	occ;	84;	0;	43875
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21;	8773.6;	22-JUL-2010	05:24:30;	Bright;		39.0;	144;	18Del	Cyg	;	2.86;	11000;	occ;	78;	0;	43875
22;	8886.2;	22-JUL-2010	05:26:22;	Bright;		48.0;	19;	50Alp	Cyg	;	1.25;	10500;	occ;	96;	0;	43875
23;	9195.7;	22-JUL-2010	05:31:32;	Bright;		44.0;	89;	5Alp	Cep	;	2.45;	8000;	occ;	88;	0;	43875
24;	9725.6;	22-JUL-2010	05:40:22;	Bright;		48.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	96;	0;	43875

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2;	-2014.3;	22-JUL-2010	05:45:54;	Bright;		43.5;	160;	23Gam	Per	;	2.93;	4700;	occ;	87;	0;	43875
3;	-1926.9;	22-JUL-2010	05:47:21;	Bright;		63.0;	35;	33Alp	Per	;	1.79;	6250;	occ;	126;	0;	43875
4;	-1743.9;	22-JUL-2010	05:50:24;	Bright;		51.5;	79;	26Bet	Per	;	2.31;	13100;	occ;	103;	0;	43875
5;	-1554.8;	22-JUL-2010	05:53:33;	Dark	;	46.0;	150;	44Zet	Per	;	2.89;	28000;	occ;	92;	0;	43875
6;	-1390.0;	22-JUL-2010	05:56:18;	Dark	;	47.5;	146;	25Eta	Tau	;	2.87;	15200;	occ;	95;	0;	43875
7;	-1294.7;	22-JUL-2010	05:57:54;	Dark	;	49.0;	13;	87Alp	Tau	;	0.87;	3800;	occ;	98;	0;	43875
8;	-702.3;	22-JUL-2010	06:07:46;	Dark	;	49.5;	165;	34Gam	Eri	;	2.95;	3200;	occ;	99;	0;	43875

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3; 2737.1; 22-JUL-2010 08:45:41; Bright; 39.0; 144; 18Del Cyg ; 2.86; 11000;occ; 78; 0;43877
4; 2848.8; 22-JUL-2010 08:47:33; Bright; 49.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 98; 0;43877
5; 3159.1; 22-JUL-2010 08:52:43; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;43877
6; 3687.9; 22-JUL-2010 09:01:32; Bright; 50.0; 76; 27Gam Cas ; 2.30; 30000;occ; 100; 0;43877
7; 4021.2; 22-JUL-2010 09:07:05; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;43877
8; 4108.7; 22-JUL-2010 09:08:33; Bright; 45.5; 35; 33Alp Per ; 1.79; 6250;occ; 91; 0;43877
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19; 6873.1; 22-JUL-2010 09:54:37; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;43878
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3; 2848.1; 22-JUL-2010 10:28:08; Bright; 49.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 98; 0;43878
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13; 5540.9; 22-JUL-2010 11:13:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43878
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5; 838.5; 22-JUL-2010 13:15:50; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;43880
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5; 3157.1; 22-JUL-2010 13:54:29; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;43880
6; 3753.2; 22-JUL-2010 14:04:25; Bright; 45.0; 110; 37Del Cas ; 2.68; 8900;occ; 90; 0;43880
7; 4020.5; 22-JUL-2010 14:08:52; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;43880
8; 4108.1; 22-JUL-2010 14:10:20; Bright; 47.0; 35; 33Alp Per ; 1.79; 6250;occ; 94; 0;43880
9; 4291.7; 22-JUL-2010 14:13:24; Bright; 48.5; 79; 26Bet Per ; 2.31; 13100;occ; 97; 0;43880
10; 4481.8; 22-JUL-2010 14:16:34; Dark ; 49.0; 150; 44Zet Per ; 2.89; 28000;occ; 98; 0;43880

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13; 5336.9; 22-JUL-2010 14:30:49; Dark ; 46.5; 165; 34Gam Eri ; 2.95; 3200;occ; 93; 0;43880
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16; 6249.8; 22-JUL-2010 14:46:02; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;43881
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 6; 3752.8; 22-JUL-2010 15:45:01; Bright; 46.0; 110; 37Del Cas ; 2.68; 8900;occ; 92; 0;43881
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 9; 4291.7; 22-JUL-2010 15:53:59; Bright; 51.5; 79; 26Bet Per ; 2.31; 13100;occ; 103; 0;43881
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11; 4647.8; 22-JUL-2010 15:59:56; Dark ; 49.5; 146; 25Eta Tau ; 2.87; 15200;occ; 99; 0;43881
12; 4743.2; 22-JUL-2010 16:01:31; Dark ; 57.0; 13; 87Alp Tau ; 0.87; 3800;occ; 114; 0;43881
13; 5338.0; 22-JUL-2010 16:11:26; Dark ; 49.5; 165; 34Gam Eri ; 2.95; 3200;occ; 99; 0;43881
14; 5544.5; 22-JUL-2010 16:14:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43881
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6; 3988.2; 30-JUL-2010 11:36:00; Bright; 54.5; 160; 23Gam Per ; 2.93; 4700;occ; 109; 0;43993
7; 4085.5; 30-JUL-2010 11:37:38; Bright; 49.0; 35; 33Alp Per ; 1.79; 6250;occ; 98; 0;43993
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11; 4633.6; 30-JUL-2010 11:46:46; Dark ; 40.5; 176; 23Zet Tau ; 3.02; 22000;occ; 81; 0;43993

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 19; 6601.4; 30-JUL-2010 12:19:34; Dark ; 56.5; 84; Alp Phe ; 2.40; 4500;occ; 113; 0;43994
 20; 6941.5; 30-JUL-2010 12:25:14; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;43994
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 13; 5717.1; 30-JUL-2010 13:45:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43994
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 17; 6942.4; 30-JUL-2010 14:05:51; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;43995
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 10; 5162.7; 30-JUL-2010 15:16:47; Dark ; 54.5; 7; 19Bet Ori ; 0.10; 14000;occ; 109; 0;43995
 11; 5425.5; 30-JUL-2010 15:21:09; Dark ; 54.5; 165; 34Gam Eri ; 2.95; 3200;occ; 109; 0;43995
 12; 5717.8; 30-JUL-2010 15:26:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43995
 13; 5989.9; 30-JUL-2010 15:30:34; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;43995
 14; 6326.9; 30-JUL-2010 15:36:11; Dark ; 47.0; 9; Alp Eri ; 0.45; 24000;occ; 94; 0;43996
 15; 6603.7; 30-JUL-2010 15:40:48; Dark ; 56.0; 84; Alp Phe ; 2.40; 4500;occ; 112; 0;43996
 16; 6942.9; 30-JUL-2010 15:46:27; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;43996
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 4; 3100.8; 30-JUL-2010 16:23:01; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;43996
 5; 4084.5; 30-JUL-2010 16:39:24; Bright; 45.0; 35; 33Alp Per ; 1.79; 6250;occ; 90; 0;43996
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 12; 5162.8; 30-JUL-2010 16:57:23; Dark ; 52.5; 7; 19Bet Ori ; 0.10; 14000;occ; 105; 0;43996
 13; 5426.4; 30-JUL-2010 17:01:46; Dark ; 53.5; 165; 34Gam Eri ; 2.95; 3200;occ; 107; 0;43996
 14; 5718.5; 30-JUL-2010 17:06:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43996
 15; 5990.6; 30-JUL-2010 17:11:11; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;43996
 16; 6327.6; 30-JUL-2010 17:16:48; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;43997
 17; 6604.4; 30-JUL-2010 17:21:24; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;43997
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 4; 2699.4; 30-JUL-2010 17:56:55; Bright; 39.5; 144; 18Del Cyg ; 2.86; 11000;occ; 79; 0;43997
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 6; 4084.4; 30-JUL-2010 18:20:00; Bright; 45.0; 35; 33Alp Per ; 1.79; 6250;occ; 90; 0;43997
 7; 4200.1; 30-JUL-2010 18:21:56; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;43997
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 12; 4902.3; 30-JUL-2010 18:33:38; Dark ; 44.0; 27; 24Gam Ori ; 1.64; 26000;occ; 88; 0;43997
 13; 5163.4; 30-JUL-2010 18:37:59; Dark ; 51.0; 7; 19Bet Ori ; 0.10; 14000;occ; 102; 0;43997
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 17; 6328.0; 30-JUL-2010 18:57:24; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;43998
 18; 6605.8; 30-JUL-2010 19:02:02; Dark ; 58.5; 84; Alp Phe ; 2.40; 4500;occ; 117; 0;43998
 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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 3; 2060.7; 30-JUL-2010 19:26:53; Bright; 38.5; 11; 53Alp Aql ; 0.76; 8000;occ; 77; 0;43998
 4; 2591.1; 30-JUL-2010 19:35:43; Bright; 49.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 98; 0;43998
 5; 2699.3; 30-JUL-2010 19:37:31; Bright; 36.5; 144; 18Del Cyg ; 2.86; 11000;occ; 73; 0;43998
 6; 3100.0; 30-JUL-2010 19:44:12; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;43998
 7; 4084.0; 30-JUL-2010 20:00:36; Bright; 49.5; 35; 33Alp Per ; 1.79; 6250;occ; 99; 0;43998
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 9; 4316.0; 30-JUL-2010 20:04:28; Bright; 47.5; 149; 45Eps Per ; 2.89; 30000;occ; 95; 0;43998
 10; 4498.2; 30-JUL-2010 20:07:30; Dark ; 54.0; 150; 44Zet Per ; 2.89; 28000;occ; 108; 0;43998
 11; 4634.5; 30-JUL-2010 20:09:46; Dark ; 40.5; 176; 23Zet Tau ; 3.02; 22000;occ; 81; 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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 10; -616.7; 30-JUL-2010 03:36:52; Dark ; 53.5; 165; 34Gam Eri ; 2.95; 3200;occ; 107; 0;43988
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 13; 285.9; 30-JUL-2010 03:51:54; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;43989
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 20; 2701.5; 30-JUL-2010 04:32:10; Bright; 37.5; 144; 18Del Cyg ; 2.86; 11000;occ; 75; 0;43989
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13; 286.9; 30-JUL-2010 05:32:31; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;43990
14; 561.1; 30-JUL-2010 05:37:06; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;43990
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7; 1105.7; 31-JUL-2010 23:41:08; Dark ; 47.0; 172; Gam Gru ; 3.00; 13100;occ; 94; 0;44015
8; 2059.7; 31-JUL-2010 23:57:02; Bright; 39.5; 11; 53Alp Aql ; 0.76; 8000;occ; 79; 0;44015
9; 2581.6; 01-AUG-2010 00:05:44; Bright; 45.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 90; 0;44015
10; 2695.4; 01-AUG-2010 00:07:38; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;44015
11; 3092.6; 01-AUG-2010 00:14:15; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;44015
12; 3980.4; 01-AUG-2010 00:29:03; Bright; 46.5; 160; 23Gam Per ; 2.93; 4700;occ; 93; 0;44015
13; 4139.1; 01-AUG-2010 00:31:42; Bright; 46.5; 175; 39Del Per ; 3.01; 19400;occ; 93; 0;44015
14; 4315.6; 01-AUG-2010 00:34:38; Bright; 46.0; 149; 45Eps Per ; 2.89; 30000;occ; 92; 0;44015
15; 4500.3; 01-AUG-2010 00:37:43; Dark ; 37.0; 150; 44Zet Per ; 2.89; 28000;occ; 74; 0;44015
16; 4637.7; 01-AUG-2010 00:40:01; Dark ; 39.5; 176; 23Zet Tau ; 3.02; 22000;occ; 79; 0;44015
17; 4787.6; 01-AUG-2010 00:42:30; Dark ; 59.5; 13; 87Alp Tau ; 0.87; 3800;occ; 119; 0;44015
18; 4908.2; 01-AUG-2010 00:44:31; Dark ; 39.5; 27; 24Gam Ori ; 1.64; 26000;occ; 79; 0;44015
19; 5013.3; 01-AUG-2010 00:46:16; Dark ; 40.0; 72; 34Del Ori ; 2.25; 30000;occ; 80; 0;44015
20; 5170.5; 01-AUG-2010 00:48:53; Dark ; 52.0; 7; 19Bet Ori ; 0.10; 14000;occ; 104; 0;44015
21; 5443.2; 01-AUG-2010 00:53:26; Dark ; 4.5; 165; 34Gam Eri ; 2.95; 3200;occ; 9; 0;44015

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