

GOMOS Daily Report 11-APR-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	14APR2010 04:48:07
Data source version	GOMOS/5.00L04
Start time of products	11APR2010 00:02:13
Stop time of products	11APR2010 23:59:34
Store outputs in DB	Yes
Nb of level 1b prods	72
Nb of prods with errors	1

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

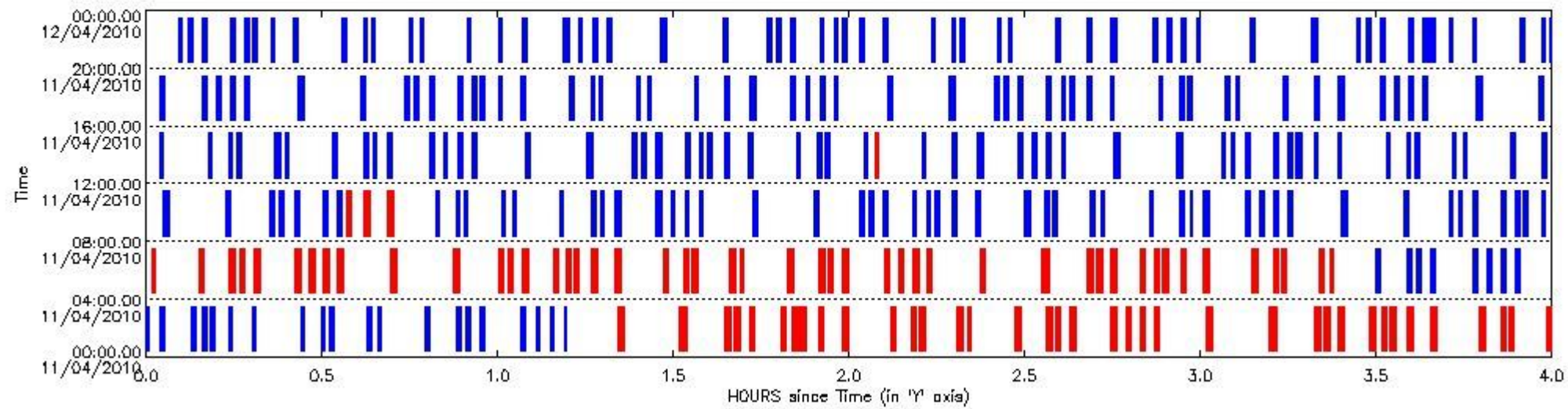
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
11-APR-2010 01:20:29	DSA1040	0	42412
11-APR-2010 01:31:06	TheSco	40	42413
11-APR-2010 01:38:52	AlpLup	78	42413
11-APR-2010 01:40:28	EtaCen	81	42413
11-APR-2010 01:42:57	5TheCen	54	42413
11-APR-2010 01:48:19	9BetCrv	106	42413
11-APR-2010 01:50:21	7DelCrv	163	42413
11-APR-2010 01:51:41	67AlpVir	15	42413
11-APR-2010 01:54:47	29GamVir	121	42413
11-APR-2010 01:58:47	47EpsVir	138	42413
11-APR-2010 02:07:03	12Alp2CVn	152	42413
11-APR-2010 02:10:37	64GamUMa	87	42413
11-APR-2010 02:11:59	77EpsUMa	32	42413
11-APR-2010 02:18:25	7BetUMi	60	42413
11-APR-2010 02:20:21	14EtaDra	119	42413

11-APR-2010 02:28:21	5AlpCep	89	42413
11-APR-2010 02:33:36	50AlpCyg	19	42413
11-APR-2010 02:35:21	37GamCyg	66	42413
11-APR-2010 02:37:41	53EpsCyg	92	42413
11-APR-2010 02:44:44	8EpsPeg	61	42413
11-APR-2010 02:47:13	34AlpAqr	162	42413
11-APR-2010 02:49:38	22BetAqr	154	42413
11-APR-2010 02:52:05	49DelCap	142	42413
11-APR-2010 03:01:06	DSA1040	0	42413
11-APR-2010 03:11:43	TheSco	40	42414
11-APR-2010 03:19:28	AlpLup	78	42414
11-APR-2010 03:21:04	EtaCen	81	42414
11-APR-2010 03:23:33	5TheCen	54	42414
11-APR-2010 03:28:55	9BetCrv	106	42414
11-APR-2010 03:30:57	7DelCrv	163	42414
11-APR-2010 03:32:17	67AlpVir	15	42414
11-APR-2010 03:35:22	29GamVir	121	42414
11-APR-2010 03:39:22	47EpsVir	138	42414
11-APR-2010 03:47:39	12Alp2CVn	152	42414
11-APR-2010 03:51:13	64GamUMa	87	42414
11-APR-2010 03:52:34	77EpsUMa	32	42414
11-APR-2010 03:59:01	7BetUMi	60	42414
11-APR-2010 04:00:56	14EtaDra	119	42414
11-APR-2010 04:08:57	5AlpCep	89	42414
11-APR-2010 04:14:12	50AlpCyg	19	42414
11-APR-2010 04:15:57	37GamCyg	66	42414
11-APR-2010 04:18:17	53EpsCyg	92	42414
11-APR-2010 04:25:21	8EpsPeg	61	42414
11-APR-2010 04:27:49	34AlpAqr	162	42414
11-APR-2010 04:30:14	22BetAqr	154	42414
11-APR-2010 04:32:41	49DelCap	142	42414
11-APR-2010 04:41:43	DSA1040	0	42414
11-APR-2010 04:52:20	TheSco	40	42415
11-APR-2010 05:00:05	AlpLup	78	42415
11-APR-2010 05:01:41	EtaCen	81	42415
11-APR-2010 05:04:09	5TheCen	54	42415
11-APR-2010 05:09:31	9BetCrv	106	42415
11-APR-2010 05:11:33	7DelCrv	163	42415
11-APR-2010 05:12:53	67AlpVir	15	42415
11-APR-2010 05:15:58	29GamVir	121	42415
11-APR-2010 05:19:58	47EpsVir	138	42415
11-APR-2010 05:28:14	12Alp2CVn	152	42415
11-APR-2010 05:31:48	64GamUMa	87	42415
11-APR-2010 05:33:10	77EpsUMa	32	42415
11-APR-2010 05:39:36	7BetUMi	60	42415
11-APR-2010 05:41:31	14EtaDra	119	42415
11-APR-2010 05:49:33	5AlpCep	89	42415
11-APR-2010 05:54:48	50AlpCyg	19	42415
11-APR-2010 05:56:32	37GamCyg	66	42415
11-APR-2010 05:58:53	53EpsCyg	92	42415
11-APR-2010 06:05:57	8EpsPeg	61	42415
11-APR-2010 06:08:25	34AlpAqr	162	42415
11-APR-2010 06:10:51	22BetAqr	154	42415
11-APR-2010 06:13:18	49DelCap	142	42415
11-APR-2010 06:22:20	DSA1040	0	42415
11-APR-2010 06:32:57	TheSco	40	42416
11-APR-2010 06:40:41	AlpLup	78	42416
11-APR-2010 06:42:17	EtaCen	81	42416
11-APR-2010 06:44:46	5TheCen	54	42416

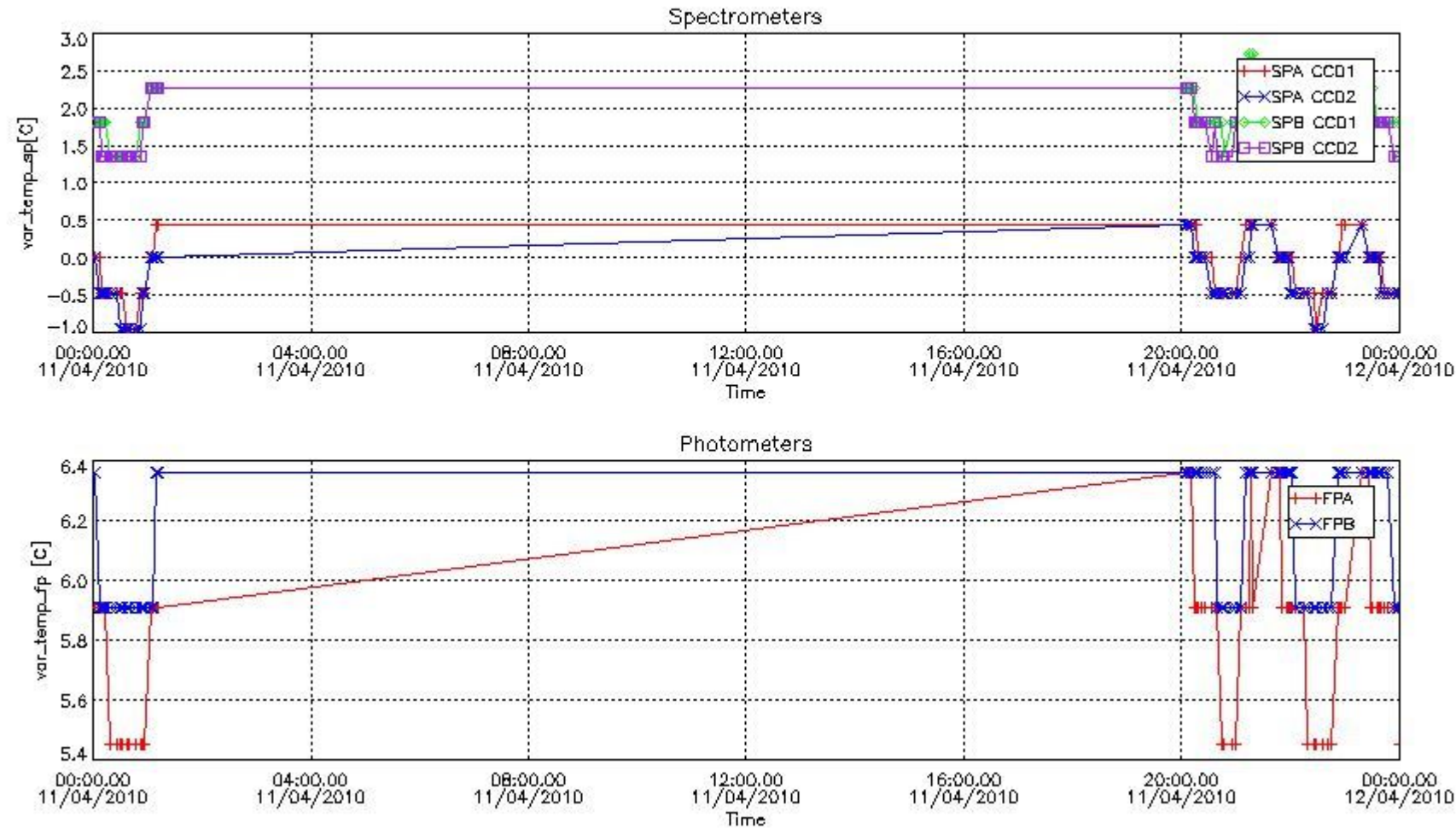
11-APR-2010 06:49:41	46GamHya	169	42416
11-APR-2010 06:52:09	7DelCrv	163	42416
11-APR-2010 06:53:29	67AlpVir	15	42416
11-APR-2010 06:56:34	29GamVir	121	42416
11-APR-2010 07:00:34	47EpsVir	138	42416
11-APR-2010 07:08:50	12Alp2CVn	152	42416
11-APR-2010 07:12:24	64GamUMa	87	42416
11-APR-2010 07:13:46	77EpsUMa	32	42416
11-APR-2010 07:20:12	7BetUMi	60	42416
11-APR-2010 07:22:06	14EtaDra	119	42416
11-APR-2010 08:34:05	67AlpVir	15	42417
11-APR-2010 08:37:10	29GamVir	121	42417
11-APR-2010 08:41:10	47EpsVir	138	42417
11-APR-2010 14:04:27	14EtaDra	119	42420

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_1PNPDE20100411_000213_000000482088_00274_42412_3233.N1	11-APR-2010 00:02:13	Straylight	47.500	54	5The Cen	2.0550	4500.0	95	42412	No
2	GOM_TRA_1PNPDE20100411_000735_000000452088_00274_42412_3234.N1	11-APR-2010 00:07:35	Twilight	45.000	106	9Bet Crv	2.6480	5600.0	90	42412	No
3	GOM_TRA_1PNPDE20100411_000937_000000412088_00274_42412_3235.N1	11-APR-2010 00:09:37	Bright	41.000	163	7Del Crv	2.9450	11000.	82	42412	No
4	GOM_TRA_1PNPDE20100411_001058_000000492088_00274_42412_3236.N1	11-APR-2010 00:10:58	Bright	48.500	15	67Alp Vir	0.97600	28000.	97	42412	No
5	GOM_TRA_1PNPDE20100411_001403_000000402088_00274_42412_3237.N1	11-APR-2010 00:14:03	Bright	39.500	121	29Gam Vir	2.7400	7200.0	79	42412	No
6	GOM_TRA_1PNPDE20100411_001804_000000422088_00274_42412_3238.N1	11-APR-2010 00:18:04	Bright	42.000	138	47Eps Vir	2.8280	4700.0	84	42412	No
7	GOM_TRA_1PNPDE20100411_002620_000000402088_00274_42412_3239.N1	11-APR-2010 00:26:20	Bright	40.000	152	12Alp2CVn	2.8900	11000.	80	42412	No
8	GOM_TRA_1PNPDE20100411_002953_000000362088_00274_42412_3240.N1	11-APR-2010 00:29:53	Bright	36.000	87	64Gam UMa	2.4330	11000.	72	42412	No
9	GOM_TRA_1PNPDE20100411_003116_000000412088_00274_42412_3241.N1	11-APR-2010 00:31:16	Bright	40.500	32	77Eps UMa	1.7630	11000.	81	42412	No
10	GOM_TRA_1PNPDE20100411_003742_000000392088_00274_42412_3242.N1	11-APR-2010 00:37:42	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	42412	No
11	GOM_TRA_1PNPDE20100411_003938_000000272088_00274_42412_3243.N1	11-APR-2010 00:39:38	Twilight	27.000	119	14Eta Dra	2.7270	4700.0	54	42412	No
12	GOM_TRA_1PNPDE20100411_004738_000000402088_00274_42412_3244.N1	11-APR-2010 00:47:38	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	42412	No
13	GOM_TRA_1PNPDE20100411_005253_000000472088_00274_42412_3245.N1	11-APR-2010 00:52:53	Bright	46.500	19	50Alp Cyg	1.2460	10500.	93	42412	No
14	GOM_TRA_1PNPDE20100411_005437_000000512088_00274_42412_3246.N1	11-APR-2010 00:54:37	Bright	51.000	66	37Gam Cyg	2.2080	5900.0	102	42412	No
15	GOM_TRA_1PNPDE20100411_005658_000000512088_00274_42412_3247.N1	11-APR-2010 00:56:58	Bright	51.000	92	53Eps Cyg	2.5000	4500.0	102	42412	No
16	GOM_TRA_1PNPDE20100411_010400_000000482088_00274_42412_3248.N1	11-APR-2010 01:04:00	Twilight	48.000	61	8Eps Peg	2.1000	3900.0	96	42412	No
17	GOM_TRA_1PNPDE20100411_010629_000000452088_00274_42412_3249.N1	11-APR-2010 01:06:29	Dark	44.500	162	34Alp Aqr	2.9440	5350.0	89	42412	No
18	GOM_TRA_1PNPDE20100411_010854_000000462088_00274_42412_3250.N1	11-APR-2010 01:08:54	Dark	45.500	154	22Bet Aqr	2.8990	5700.0	91	42412	No
19	GOM_TRA_1PNPDE20100411_011121_000000222088_00274_42412_3251.N1	11-APR-2010 01:11:21	Dark	21.500	142	49Del Cap	2.8500	8900.0	43	42412	No
20	GOM_TRA_1PNPDE20100411_200525_000000452088_00286_42424_3295.N1	11-APR-2010 20:05:25	Straylight	44.500	78	Alp Lup	2.3040	28000.	89	42424	No
21	GOM_TRA_1PNPDE20100411_200701_000000472088_00286_42424_3296.N1	11-APR-2010 20:07:01	Straylight	46.500	81	Eta Cen	2.3560	28000.	93	42424	No
22	GOM_TRA_1PNPDE20100411_200929_000000502088_00286_42424_3297.N1	11-APR-2010 20:09:29	Straylight	49.500	54	5The Cen	2.0550	4500.0	99	42424	No
23	GOM_TRA_1PNPDE20100411_201422_000000452088_00286_42424_3298.N1	11-APR-2010 20:14:22	Twilight	44.500	169	46Gam Hya	2.9910	4700.0	89	42424	No
24	GOM_TRA_1PNPDE20100411_201650_000000442088_00286_42424_3299.N1	11-APR-2010 20:16:50	Bright	44.000	163	7Del Crv	2.9450	11000.	88	42424	No
25	GOM_TRA_1PNPDE20100411_201809_000000492088_00286_42424_3300.N1	11-APR-2010 20:18:09	Bright	49.000	15	67Alp Vir	0.97600	28000.	98	42424	No
26	GOM_TRA_1PNPDE20100411_202114_000000402088_00286_42424_3301.N1	11-APR-2010 20:21:14	Bright	39.500	121	29Gam Vir	2.7400	7200.0	79	42424	No
27	GOM_TRA_1PNPDE20100411_202512_000000422088_00286_42424_3302.N1	11-APR-2010 20:25:12	Bright	41.500	138	47Eps Vir	2.8280	4700.0	83	42424	No
28	GOM_TRA_1PNPDE20100411_203327_000000412088_00286_42424_3303.N1	11-APR-2010 20:33:27	Bright	41.000	152	12Alp2CVn	2.8900	11000.	82	42424	No
29	GOM_TRA_1PNPDE20100411_203704_000000362088_00286_42424_3304.N1	11-APR-2010 20:37:04	Bright	35.500	87	64Gam UMa	2.4330	11000.	71	42424	No
30	GOM_TRA_1PNPDE20100411_203824_000000382088_00286_42424_3305.N1	11-APR-2010 20:38:24	Bright	37.500	32	77Eps UMa	1.7630	11000.	75	42424	No
31	GOM_TRA_1PNPDE20100411_204450_000000412088_00286_42424_3306.N1	11-APR-2010 20:44:50	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	42424	No
32	GOM_TRA_1PNPDE20100411_204640_000000342088_00286_42424_3307.N1	11-APR-2010 20:46:40	Twilight	34.000	119	14Eta Dra	2.7270	4700.0	68	42424	No
33	GOM_TRA_1PNPDE20100411_205448_000000372088_00286_42424_3308.N1	11-APR-2010 20:54:48	Bright	36.500	89	5Alp Cep	2.4510	8000.0	73	42424	No
34	GOM_TRA_1PNPDE20100411_210003_000000442088_00286_42424_3309.N1	11-APR-2010 21:00:03	Bright	44.000	19	50Alp Cyg	1.2460	10500.	88	42424	No
35	GOM_TRA_1PNPDE20100411_210410_000000502088_00286_42424_3310.N1	11-APR-2010 21:04:10	Bright	50.000	92	53Eps Cyg	2.5000	4500.0	100	42424	No
36	GOM_TRA_1PNPDE20100411_211116_000000512088_00286_42424_3311.N1	11-APR-2010 21:11:16	Twilight	51.000	61	8Eps Peg	2.1000	3900.0	102	42424	No
37	GOM_TRA_1PNPDE20100411_211345_000000422088_00286_42424_3312.N1	11-APR-2010 21:13:45	Dark	41.500	162	34Alp Aqr	2.9440	5350.0	83	42424	No
38	GOM_TRA_1PNPDE20100411_211611_000000462088_00286_42424_3313.N1	11-APR-2010 21:16:11	Dark	45.500	154	22Bet Aqr	2.8990	5700.0	91	42424	Yes
39	GOM_TRA_1PNPDE20100411_211838_000000442088_00286_42424_3314.N1	11-APR-2010 21:18:38	Dark	44.000	142	49Del Cap	2.8500	8900.0	88	42424	No
40	GOM_TRA_1PNPDE20100411_213823_000000522088_00287_42425_3315.N1	11-APR-2010 21:38:23	Dark	52.000	40	The Sco	1.8590	7100.0	104	42425	No

41	GOM_TRA_1PNPDE20100411_214601_000000442088_00287_42425_3316.N1	11-APR-2010 21:46:01	Straylight	43.500	78	Alp Lup	2.3040	28000.	87	42425	No
42	GOM_TRA_1PNPDE20100411_214738_000000472088_00287_42425_3317.N1	11-APR-2010 21:47:38	Straylight	46.500	81	Eta Cen	2.3560	28000.	93	42425	No
43	GOM_TRA_1PNPDE20100411_215005_000000502088_00287_42425_3318.N1	11-APR-2010 21:50:05	Straylight	50.000	54	5The Cen	2.0550	4500.0	100	42425	No
44	GOM_TRA_1PNPDE20100411_215459_000000442088_00287_42425_3319.N1	11-APR-2010 21:54:59	Tw_i_and_stray	44.000	169	46Gam Hya	2.9910	4700.0	88	42425	No
45	GOM_TRA_1PNPDE20100411_215726_000000412088_00287_42425_3320.N1	11-APR-2010 21:57:26	Bright	40.500	163	7Del Crv	2.9450	11000.	81	42425	No
46	GOM_TRA_1PNPDE20100411_215845_000000512088_00287_42425_3321.N1	11-APR-2010 21:58:45	Bright	51.000	15	67Alp Vir	0.97600	28000.	102	42425	No
47	GOM_TRA_1PNPDE20100411_220150_000000402088_00287_42425_3322.N1	11-APR-2010 22:01:50	Bright	40.000	121	29Gam Vir	2.7400	7200.0	80	42425	No
48	GOM_TRA_1PNPDE20100411_220548_000000422088_00287_42425_3323.N1	11-APR-2010 22:05:48	Bright	41.500	138	47Eps Vir	2.8280	4700.0	83	42425	No
49	GOM_TRA_1PNPDE20100411_221402_000000392088_00287_42425_3324.N1	11-APR-2010 22:14:02	Bright	38.500	152	12Alp2CVn	2.8900	11000.	77	42425	No
50	GOM_TRA_1PNPDE20100411_221739_000000362088_00287_42425_3325.N1	11-APR-2010 22:17:39	Bright	35.500	87	64Gam UMa	2.4330	11000.	71	42425	No
51	GOM_TRA_1PNPDE20100411_221859_000000392088_00287_42425_3326.N1	11-APR-2010 22:18:59	Bright	39.000	32	77Eps UMa	1.7630	11000.	78	42425	No
52	GOM_TRA_1PNPDE20100411_222525_000000362088_00287_42425_3327.N1	11-APR-2010 22:25:25	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	42425	No
53	GOM_TRA_1PNPDE20100411_222715_000000342088_00287_42425_3328.N1	11-APR-2010 22:27:15	Tw_i_and_stray	34.000	119	14Eta Dra	2.7270	4700.0	68	42425	No
54	GOM_TRA_1PNPDE20100411_223523_000000382088_00287_42425_3329.N1	11-APR-2010 22:35:23	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	42425	No
55	GOM_TRA_1PNPDE20100411_224039_000000442088_00287_42425_3330.N1	11-APR-2010 22:40:39	Bright	44.000	19	50Alp Cyg	1.2460	10500.	88	42425	No
56	GOM_TRA_1PNPDE20100411_224446_000000532088_00287_42425_3331.N1	11-APR-2010 22:44:46	Bright	52.500	92	53Eps Cyg	2.5000	4500.0	105	42425	No
57	GOM_TRA_1PNPDE20100411_225153_000000492088_00287_42425_3332.N1	11-APR-2010 22:51:53	Twilight	49.000	61	8Eps Peg	2.1000	3900.0	98	42425	No
58	GOM_TRA_1PNPDE20100411_225421_000000442088_00287_42425_3333.N1	11-APR-2010 22:54:21	Dark	44.000	162	34Alp Aqr	2.9440	5350.0	88	42425	No
59	GOM_TRA_1PNPDE20100411_225648_000000462088_00287_42425_3334.N1	11-APR-2010 22:56:48	Dark	46.000	154	22Bet Aqr	2.8990	5700.0	92	42425	No
60	GOM_TRA_1PNPDE20100411_225914_000000452088_00287_42425_3334.N1	11-APR-2010 22:59:14	Dark	44.500	142	49Del Cap	2.8500	8900.0	89	42425	No
61	GOM_TRA_1PNPDE20100411_231900_000000542088_00288_42426_3335.N1	11-APR-2010 23:19:00	Dark	54.000	40	The Sco	1.8590	7100.0	108	42426	No
62	GOM_TRA_1PNPDE20100411_232638_000000442088_00288_42426_3336.N1	11-APR-2010 23:26:38	Straylight	43.500	78	Alp Lup	2.3040	28000.	87	42426	No
63	GOM_TRA_1PNPDE20100411_232814_000000462088_00288_42426_3337.N1	11-APR-2010 23:28:14	Straylight	46.000	81	Eta Cen	2.3560	28000.	92	42426	No
64	GOM_TRA_1PNPDE20100411_233041_000000562088_00288_42426_3338.N1	11-APR-2010 23:30:41	Straylight	56.000	54	5The Cen	2.0550	4500.0	112	42426	No
65	GOM_TRA_1PNPDE20100411_233535_000000452088_00288_42426_3339.N1	11-APR-2010 23:35:35	Tw_i_and_stray	45.000	169	46Gam Hya	2.9910	4700.0	90	42426	No
66	GOM_TRA_1PNPDE20100411_233802_000000522088_00288_42426_3340.N1	11-APR-2010 23:38:02	Bright	52.000	163	7Del Crv	2.9450	11000.	104	42426	No
67	GOM_TRA_1PNPDE20100411_233921_000000512088_00288_42426_3341.N1	11-APR-2010 23:39:21	Bright	50.500	15	67Alp Vir	0.97600	28000.	101	42426	No
68	GOM_TRA_1PNPDE20100411_234226_000000412088_00288_42426_3342.N1	11-APR-2010 23:42:26	Bright	41.000	121	29Gam Vir	2.7400	7200.0	82	42426	No
69	GOM_TRA_1PNPDE20100411_234623_000000422088_00288_42426_3343.N1	11-APR-2010 23:46:23	Bright	41.500	138	47Eps Vir	2.8280	4700.0	83	42426	No
70	GOM_TRA_1PNPDE20100411_235438_000000402088_00288_42426_3344.N1	11-APR-2010 23:54:38	Bright	40.000	152	12Alp2CVn	2.8900	11000.	80	42426	No
71	GOM_TRA_1PNPDE20100411_235815_000000372088_00288_42426_3345.N1	11-APR-2010 23:58:15	Bright	36.500	87	64Gam UMa	2.4330	11000.	73	42426	No
72	GOM_TRA_1PNPDE20100411_235934_000000562088_00288_42426_3346.N1	11-APR-2010 23:59:34	Bright	56.000	32	77Eps UMa	1.7630	11000.	112	42426	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).

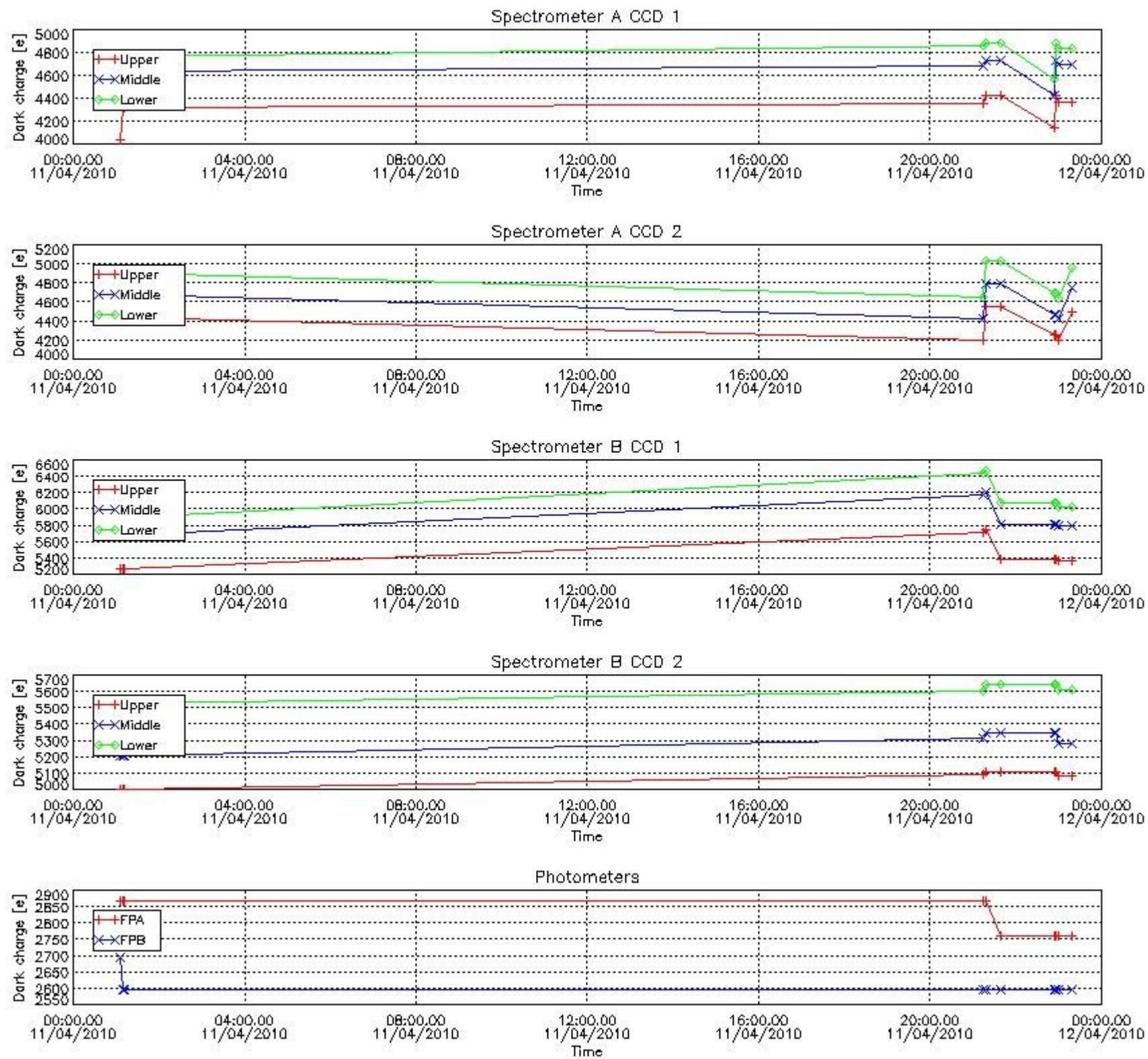
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20100411_200525_000000452088_00286_42424_3295.N1	DC map used
GOM_TRA_1PNPDE20100411_200701_000000472088_00286_42424_3296.N1	DC map used
GOM_TRA_1PNPDE20100411_200929_000000502088_00286_42424_3297.N1	DC map used
GOM_TRA_1PNPDE20100411_201422_000000452088_00286_42424_3298.N1	DC map used
GOM_TRA_1PNPDE20100411_201650_000000442088_00286_42424_3299.N1	DC map used
GOM_TRA_1PNPDE20100411_201809_000000492088_00286_42424_3300.N1	DC map used
GOM_TRA_1PNPDE20100411_202114_000000402088_00286_42424_3301.N1	DC map used
GOM_TRA_1PNPDE20100411_202512_000000422088_00286_42424_3302.N1	DC map used
GOM_TRA_1PNPDE20100411_203327_000000412088_00286_42424_3303.N1	DC map used
GOM_TRA_1PNPDE20100411_203704_000000362088_00286_42424_3304.N1	DC map used
GOM_TRA_1PNPDE20100411_203824_000000382088_00286_42424_3305.N1	DC map used
GOM_TRA_1PNPDE20100411_204450_000000412088_00286_42424_3306.N1	DC map used
GOM_TRA_1PNPDE20100411_204640_000000342088_00286_42424_3307.N1	DC map used
GOM_TRA_1PNPDE20100411_205448_000000372088_00286_42424_3308.N1	DC map used

GOM_TRA_1PNPDE20100411_210003_000000442088_00286_42424_3309.N1	DC map used
GOM_TRA_1PNPDE20100411_210410_000000502088_00286_42424_3310.N1	DC map used
GOM_TRA_1PNPDE20100411_211116_000000512088_00286_42424_3311.N1	DC map used
GOM_TRA_1PNPDE20100411_211345_000000422088_00286_42424_3312.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

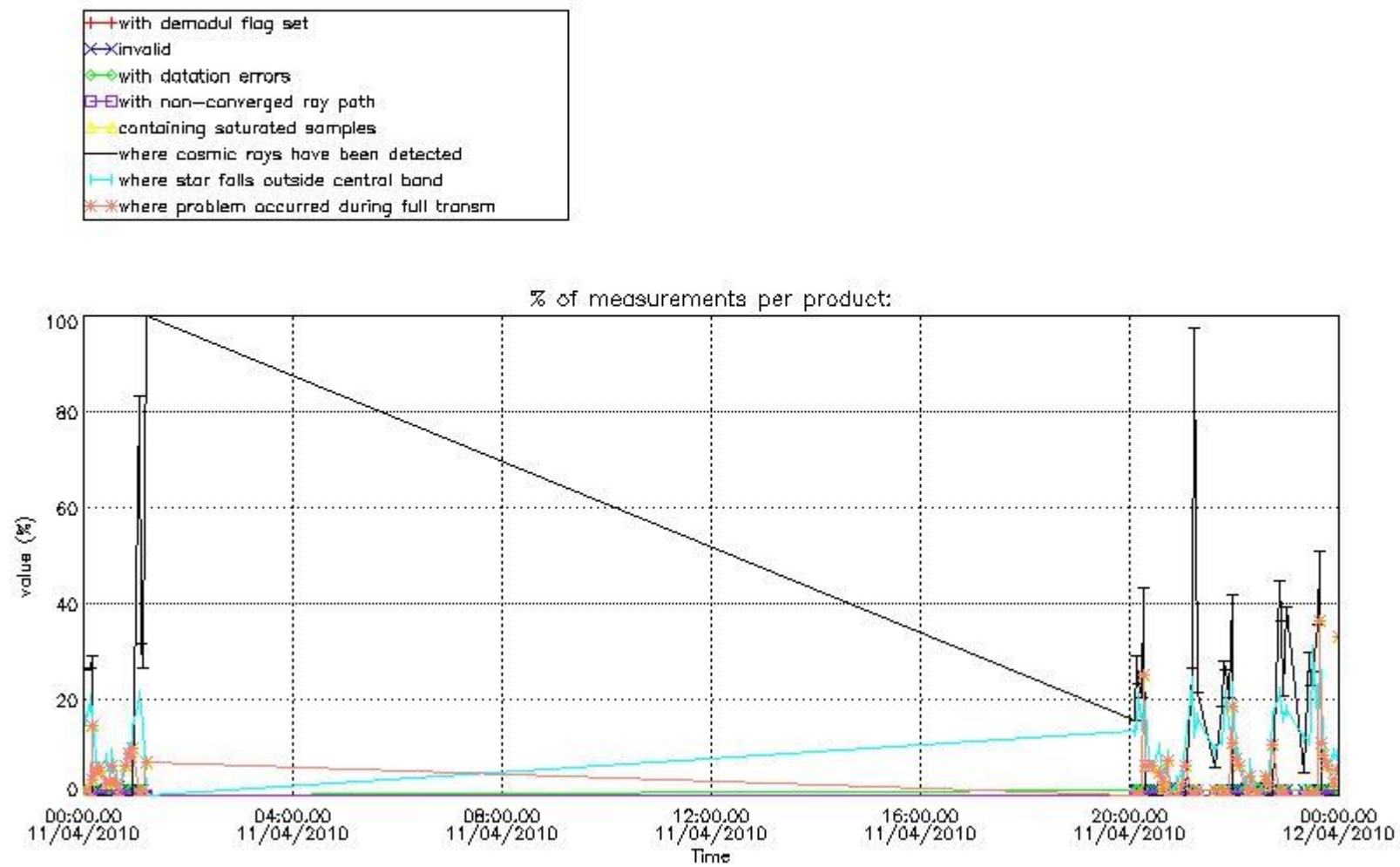
In this section it is presented the modulation information extracted from the pcd (product confidence data)

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.

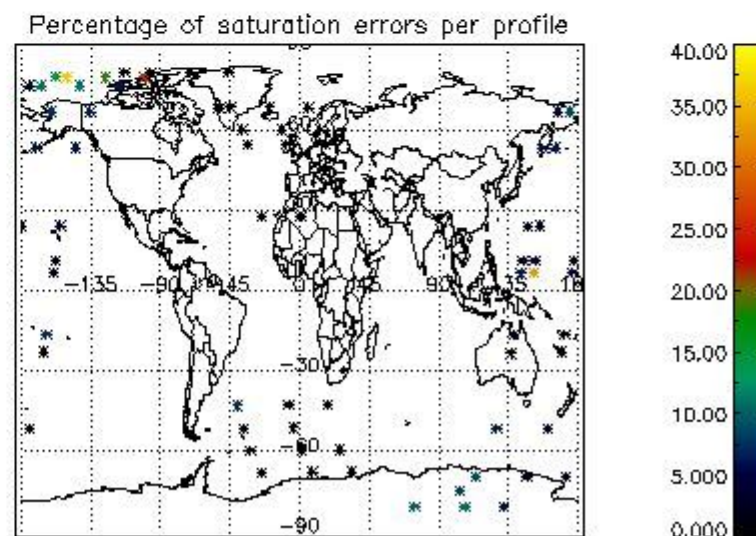
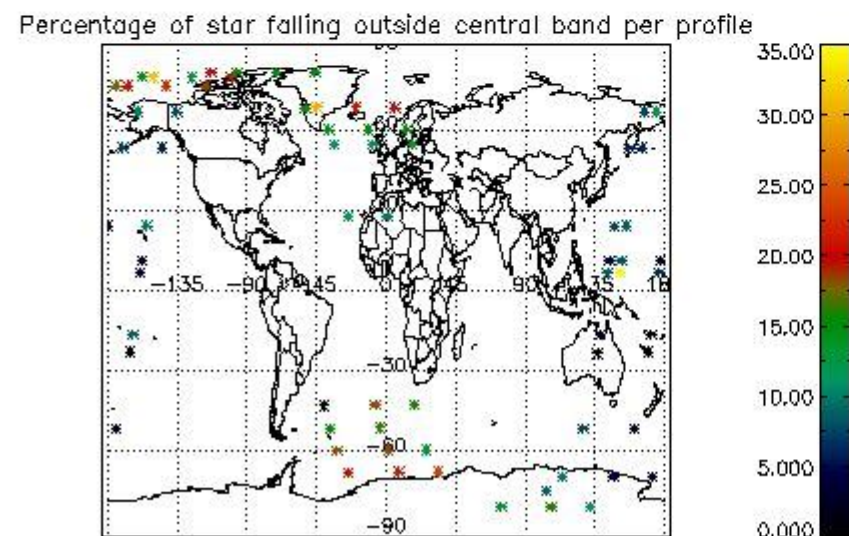
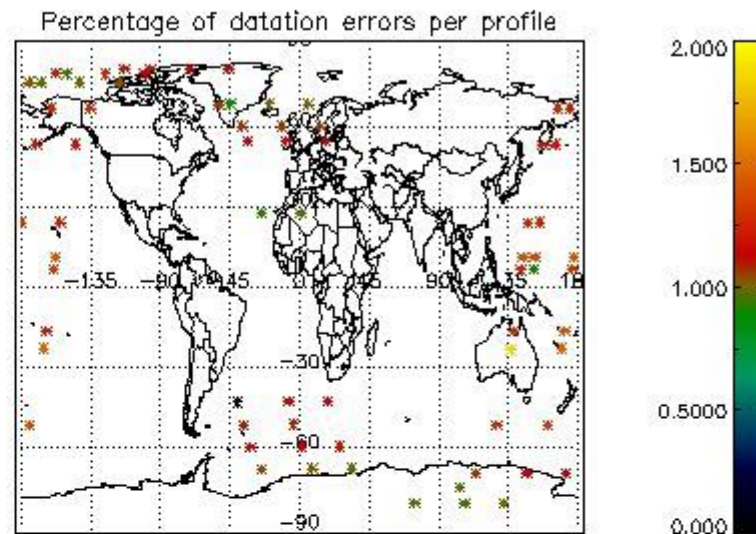
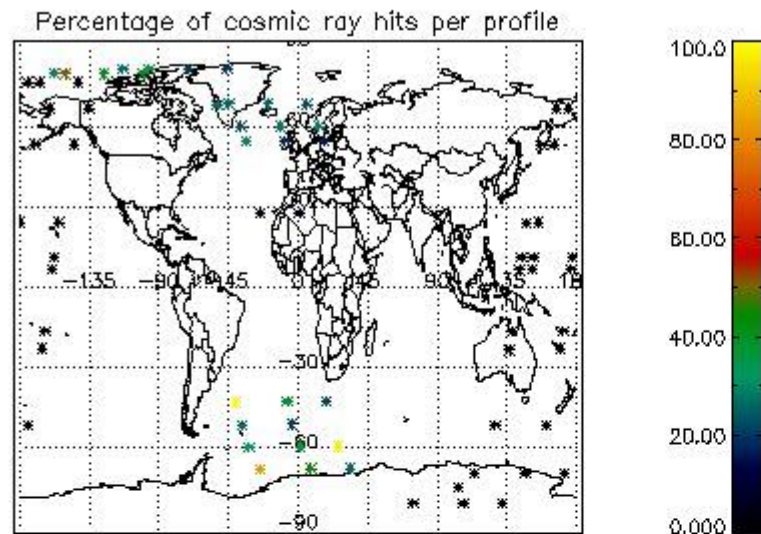
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	35.2113 %
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)



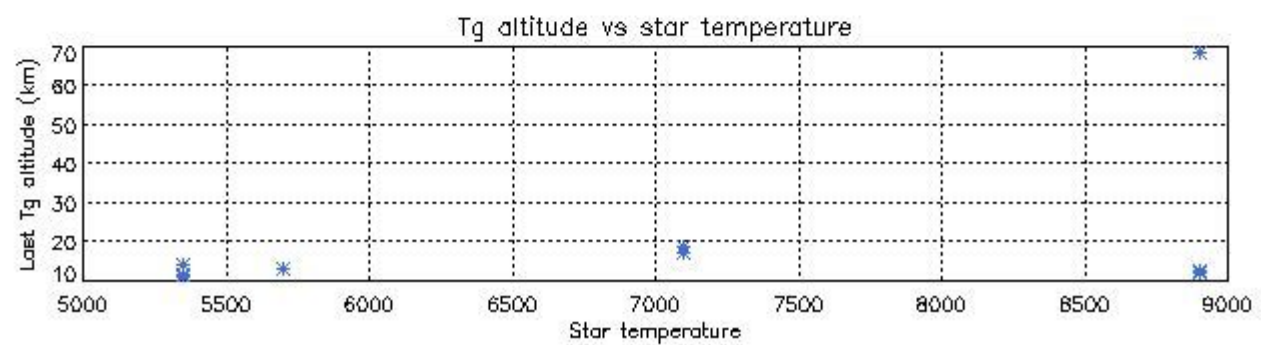
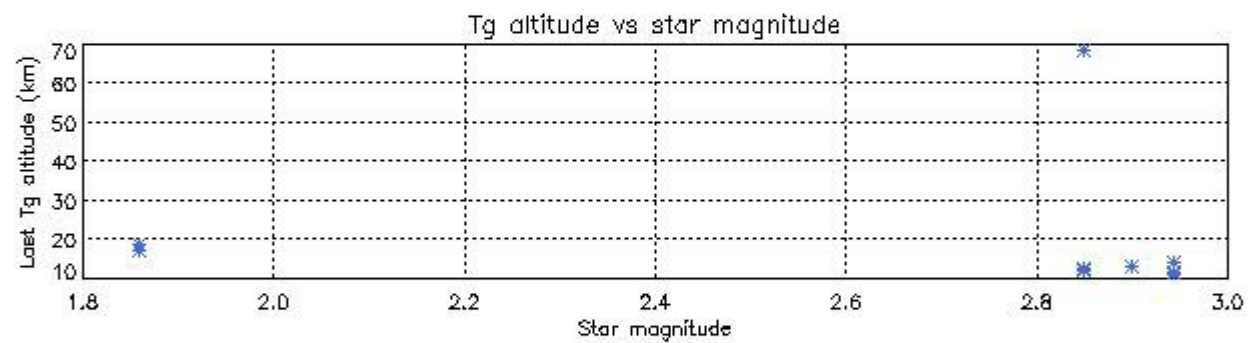
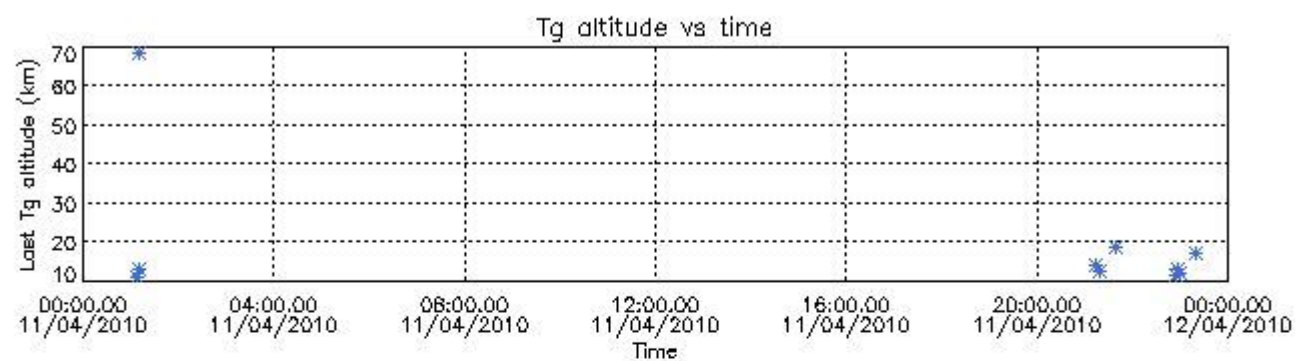
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	19.170	18.281	9.9825
St. deviation:	17.427	5.0626	0.85270
Maximum:	68.262	27.244	10.696
Minimum:	11.161	3.7045	9.0382
Number of data:	10.000	41.000	3.0000

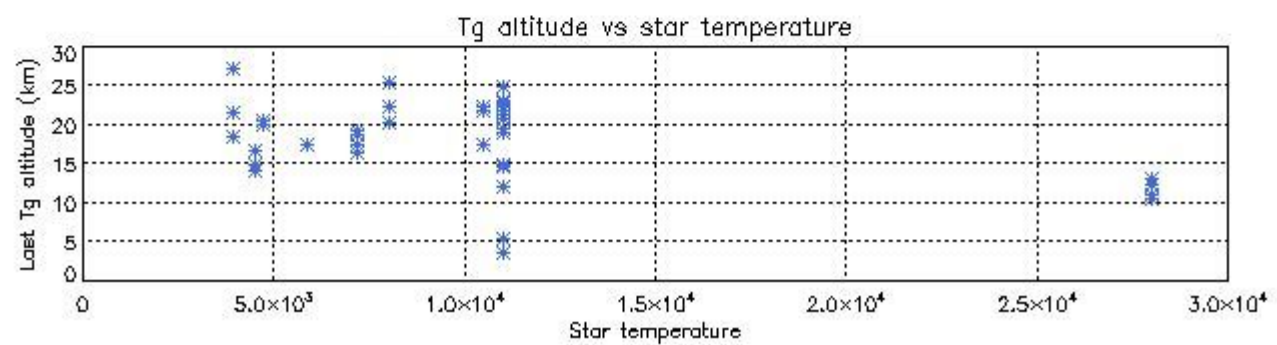
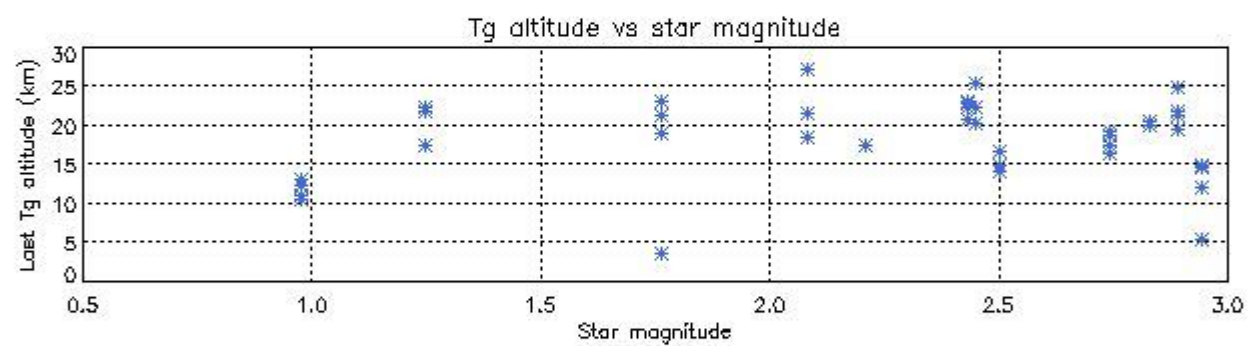
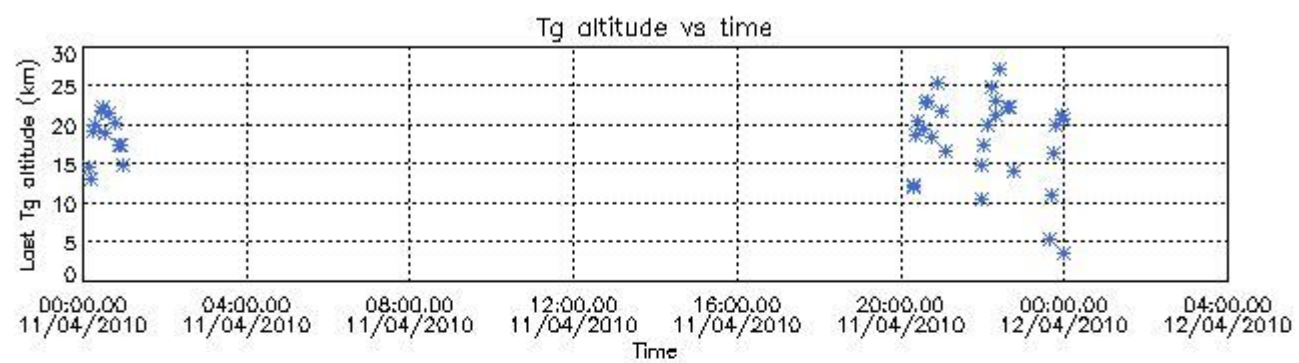
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



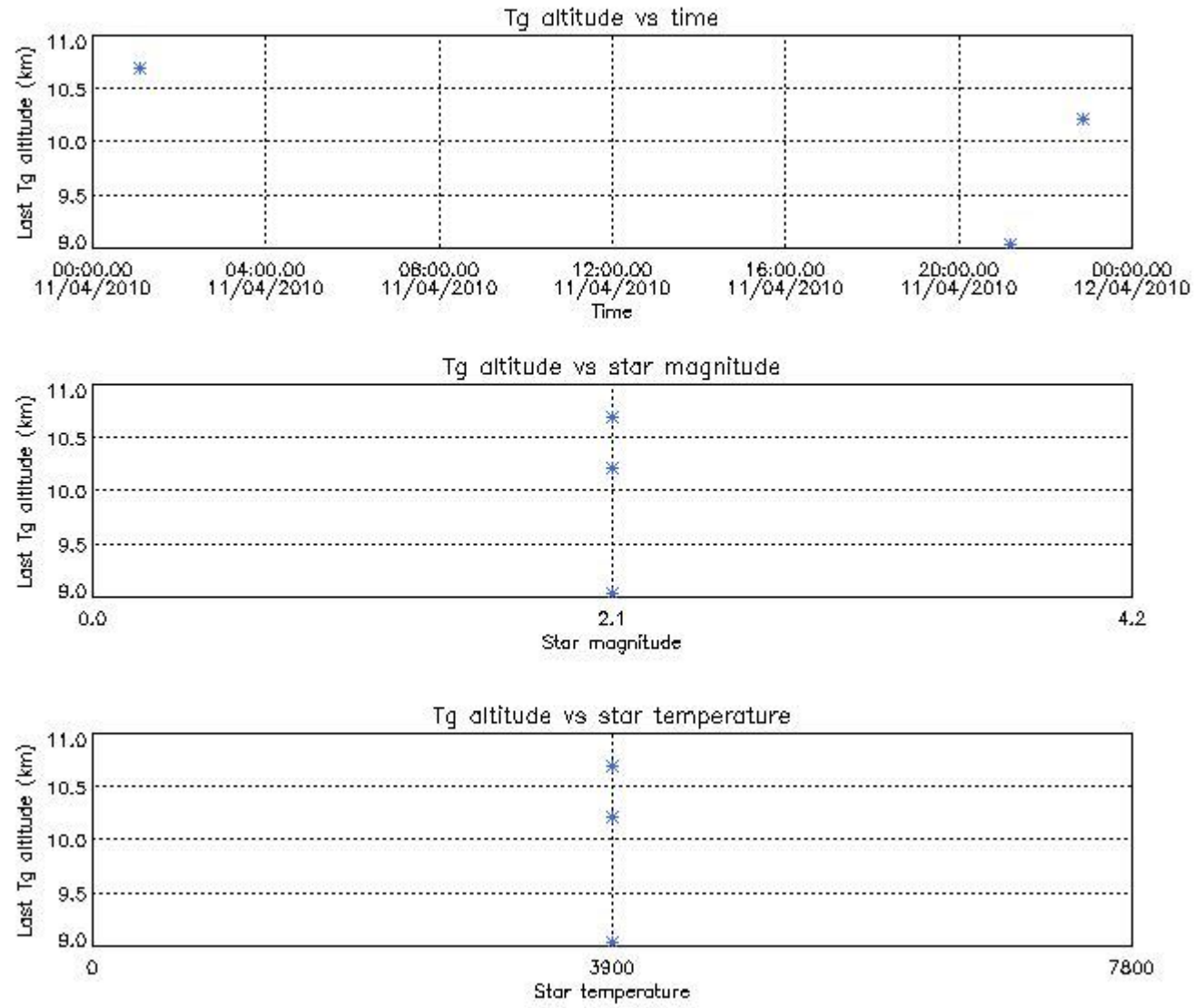
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

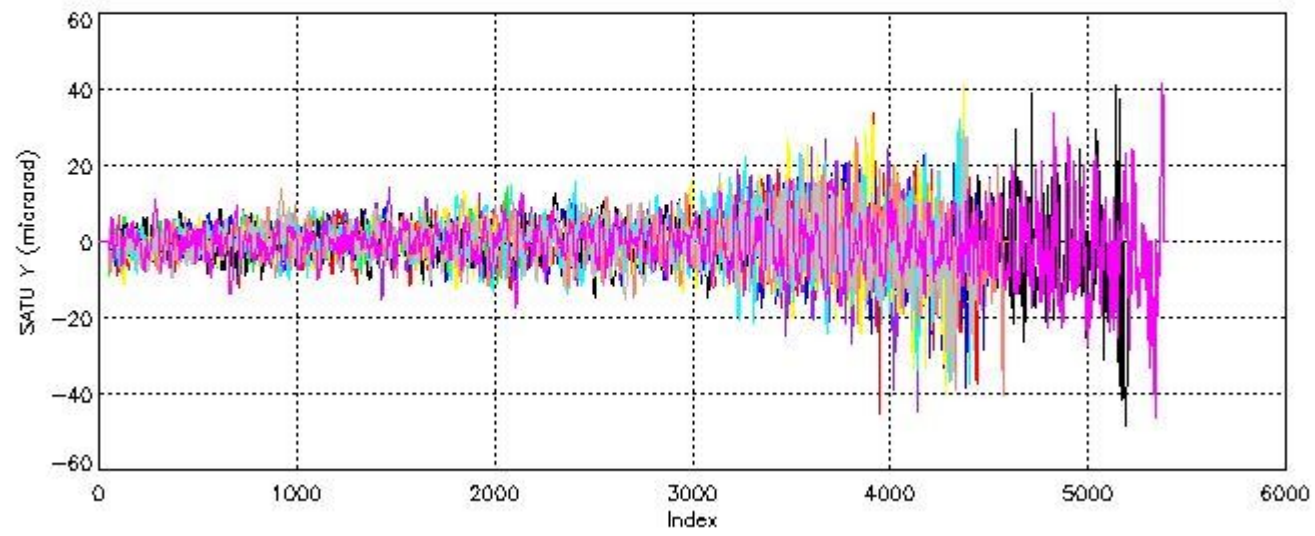
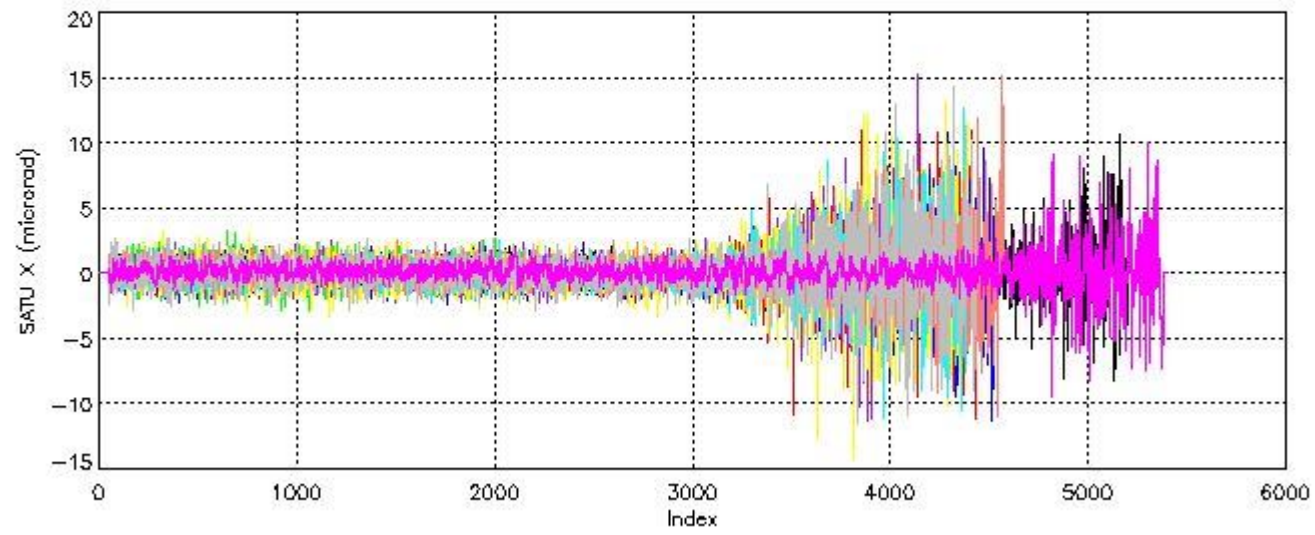


7. Star Acquisition and Tracking Unit (SATU)

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:	0.10618	-0.43552	0.22518	-0.60356
St. deviation:	0.68708	3.0411	0.83038	3.2365
Maximum:	3.3000	13.900	6.1000	15.400
Minimum:	-2.9000	-13.900	-5.4000	-16.100

Number of data:	9800.0	9800.0	38950.	38950.
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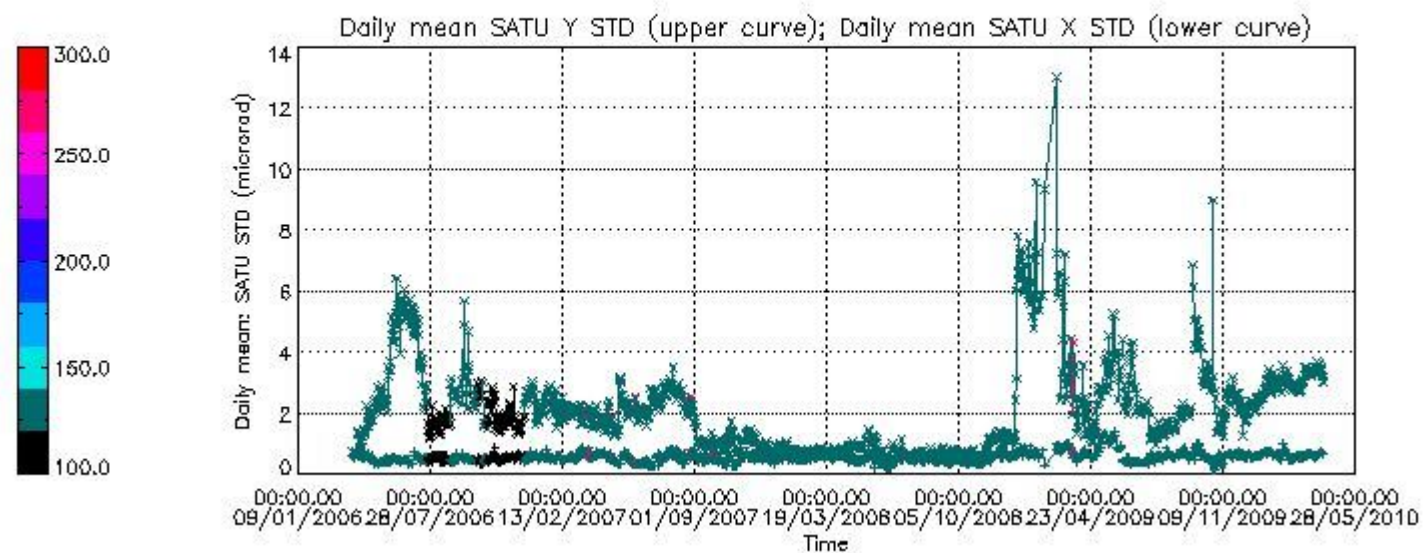
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

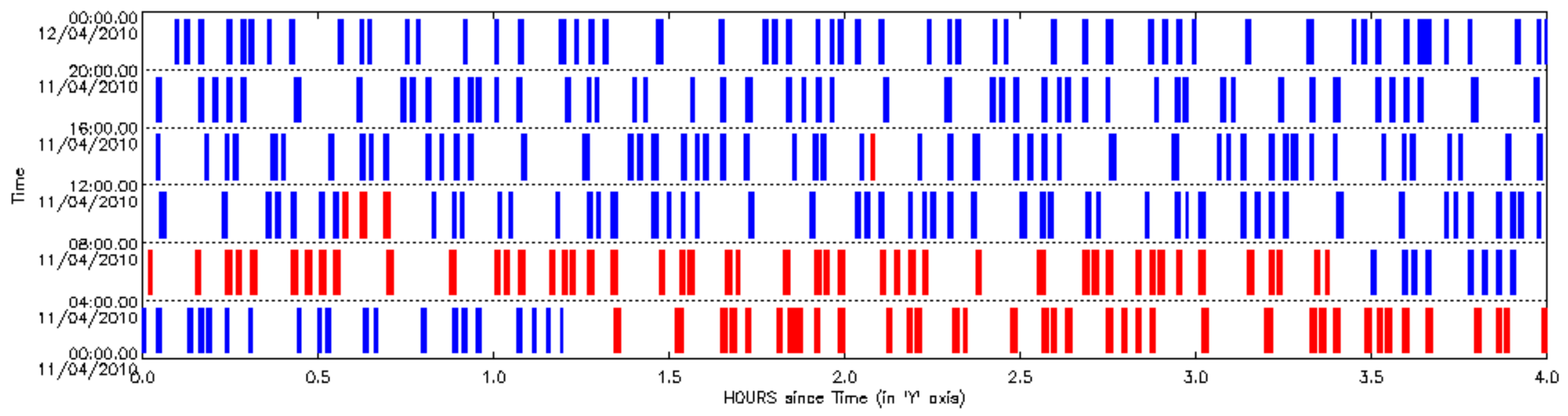
Lower curve: STD of SATU X axis

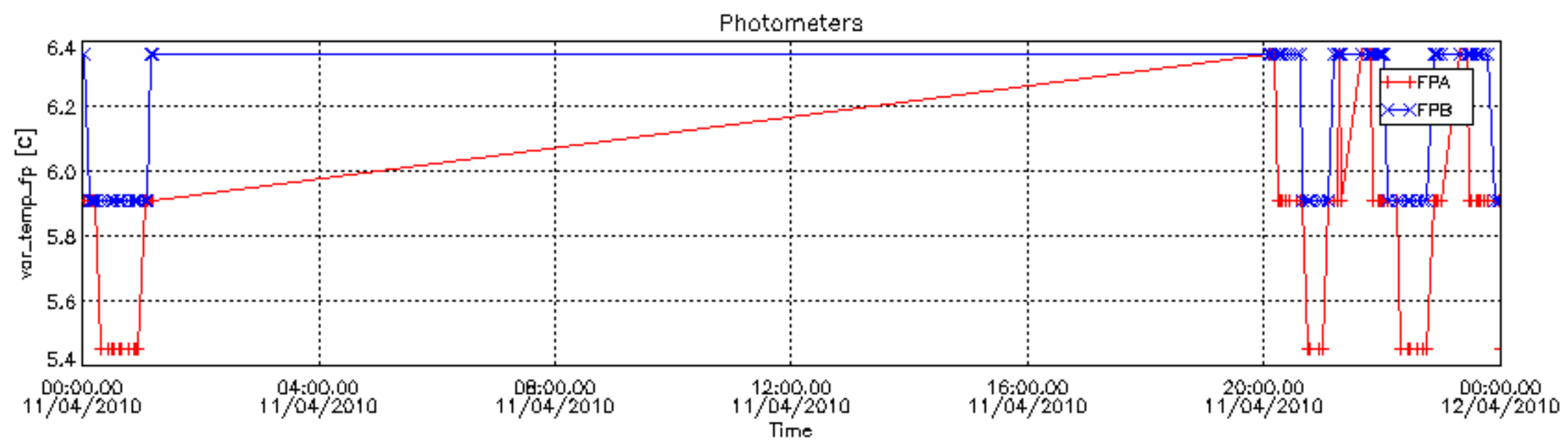
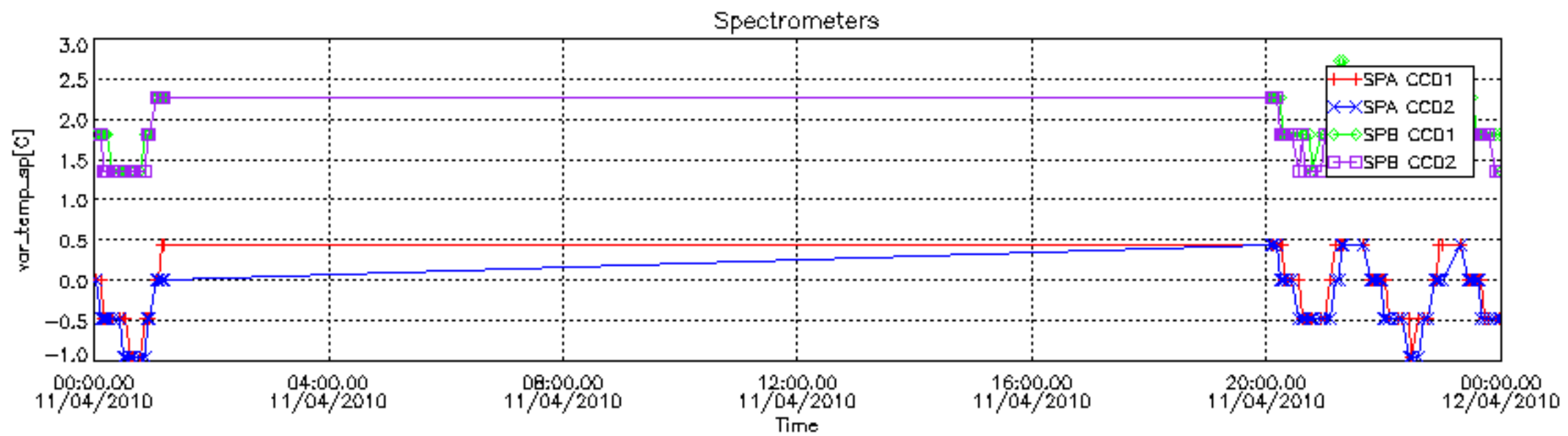


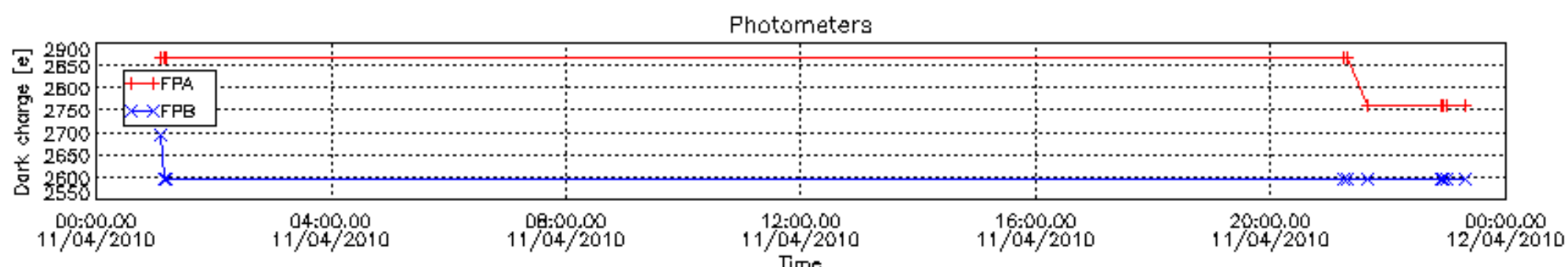
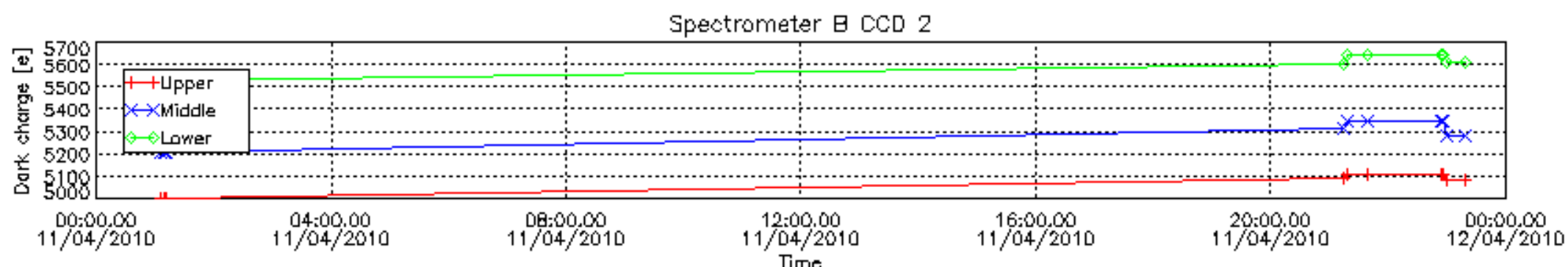
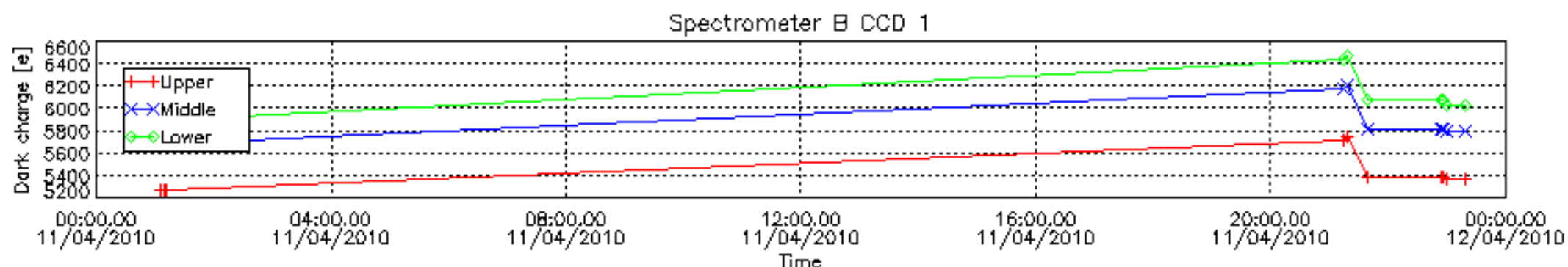
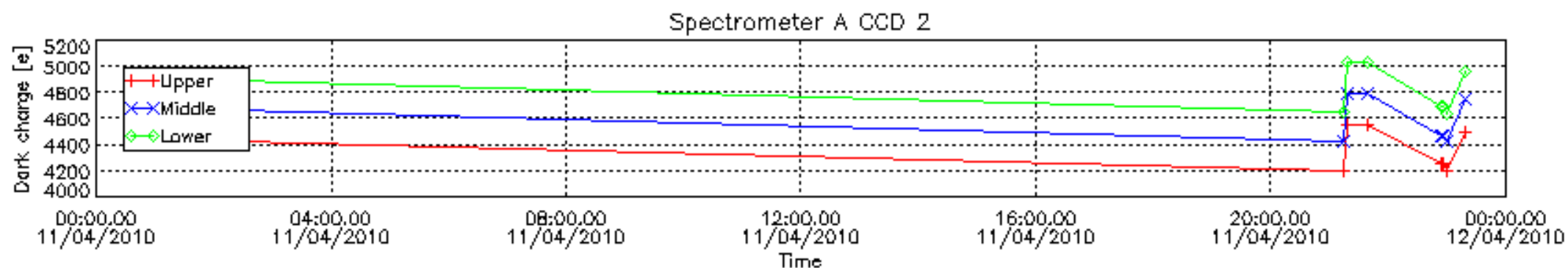
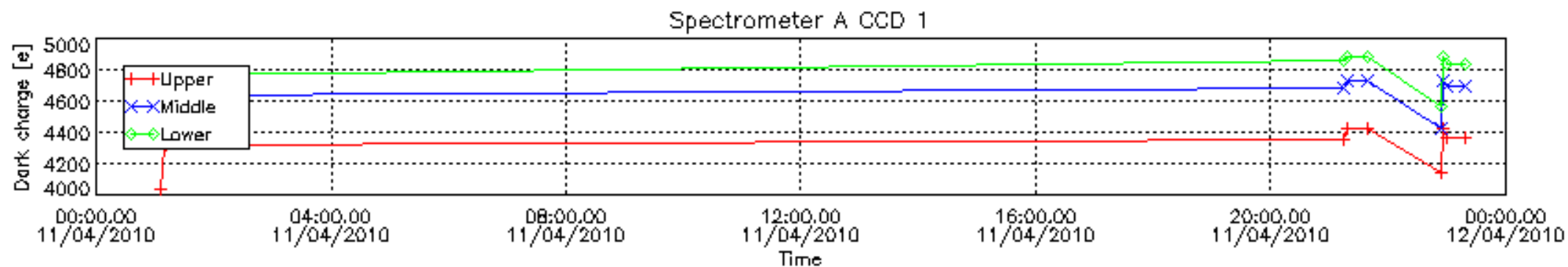
8. Auxiliary Data Files used for the production reported in section 2.4

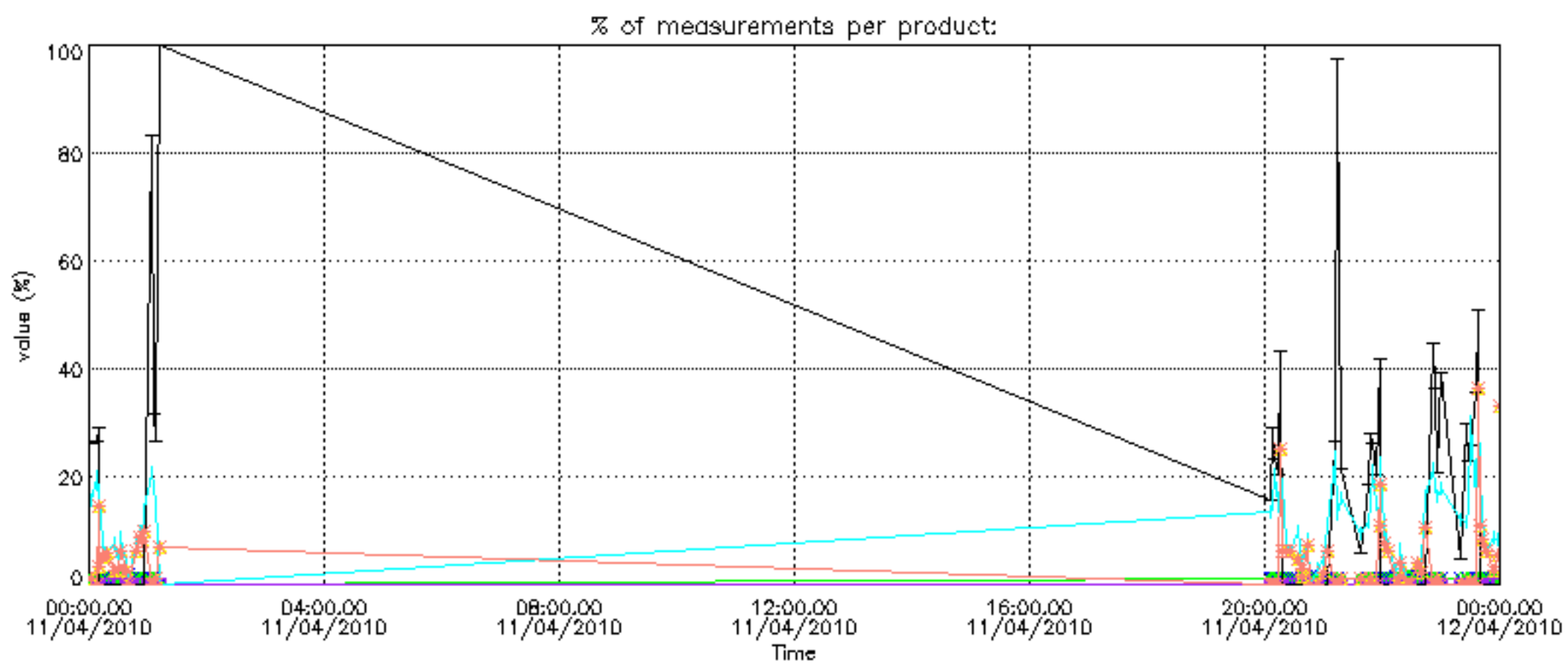
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	11-APR-2010 00:02:13
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100407_100257_20100406_000000_20500101_000000	1	11-APR-2010 00:02:13
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	11-APR-2010 00:02:13
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	11-APR-2010 00:02:13
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	11-APR-2010 00:02:13
ECMWF_FILE	AUX_ECF_AXNECM20100410_052118_20100410_210000_20100411_090000	1	11-APR-2010 00:02:13
ECMWF_FILE	AUX_ECF_AXNECM20100411_052118_20100411_150000_20100412_030000	20	11-APR-2010 20:05:25
ECMWF_FILE	AUX_ECF_AXNECM20100411_054116_20100411_210000_20100412_090000	38	11-APR-2010 21:16:11
OPTIONAL_ECMWF_FILE	MISSING	1	11-APR-2010 00:02:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100410_232703_000057382088_00273_42411_0137.N1	1	11-APR-2010 00:02:13
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100411_195942_000041442088_00286_42424_0138.N1	20	11-APR-2010 20:05:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100411_211405_000057382088_00286_42424_0139.N1	38	11-APR-2010 21:16:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100411_225502_000057382088_00287_42425_0140.N1	60	11-APR-2010 22:59:14

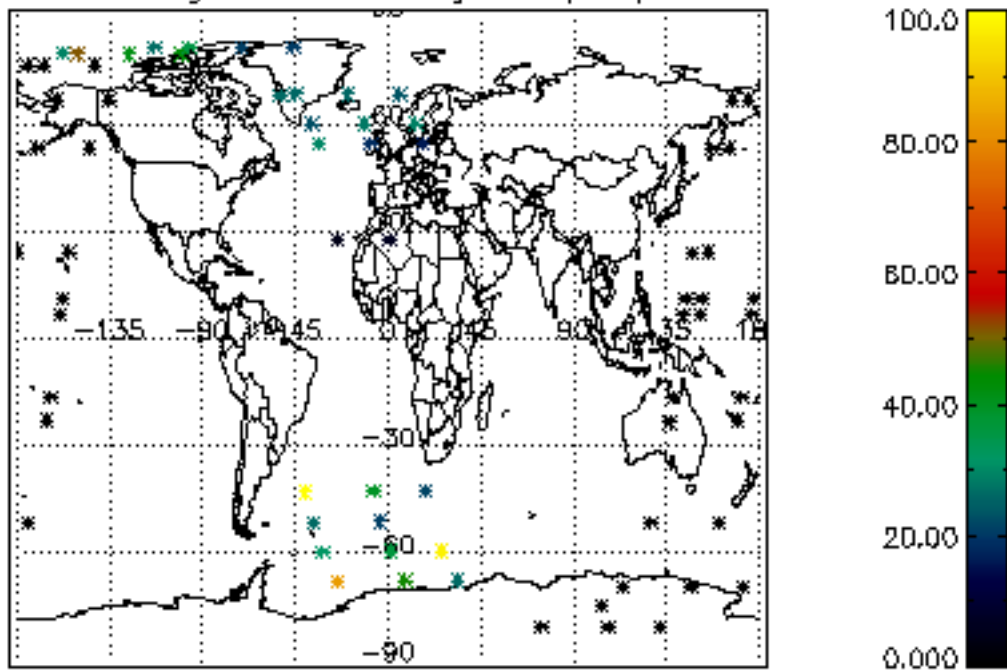




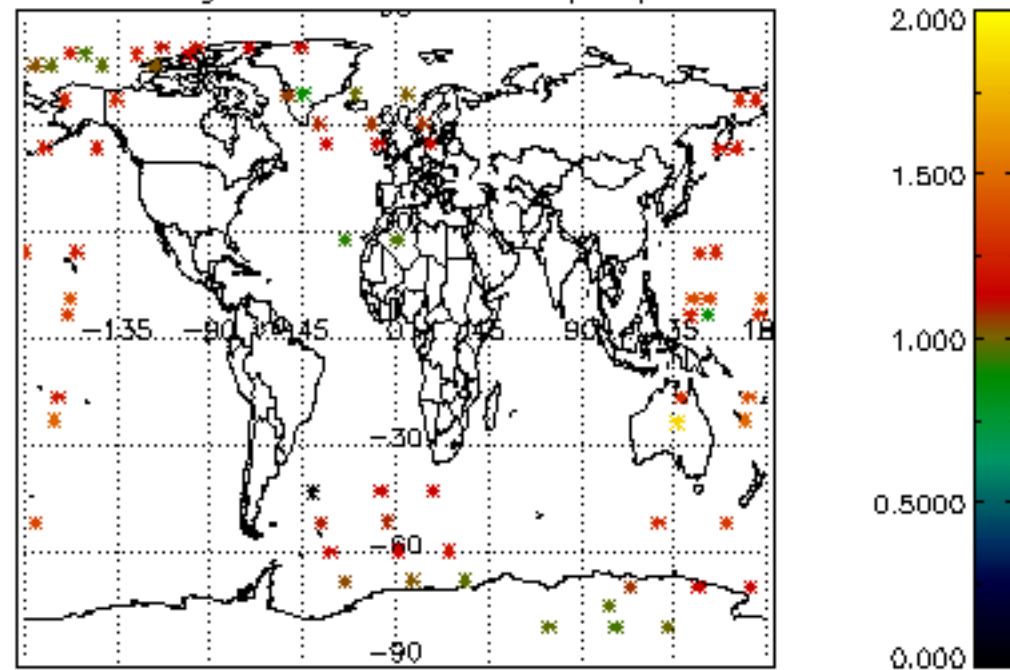




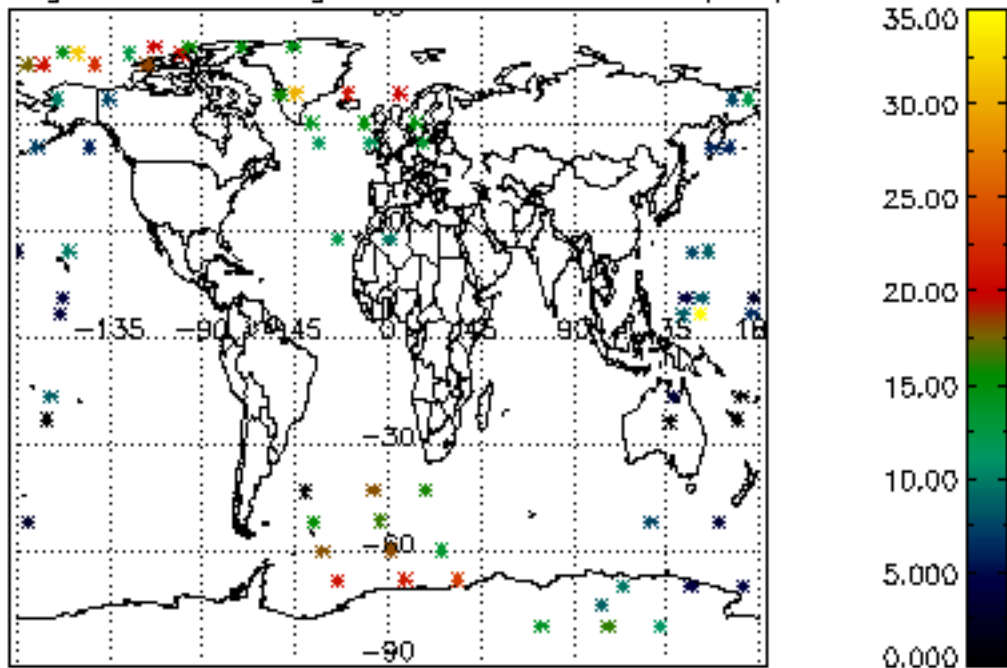
Percentage of cosmic ray hits per profile



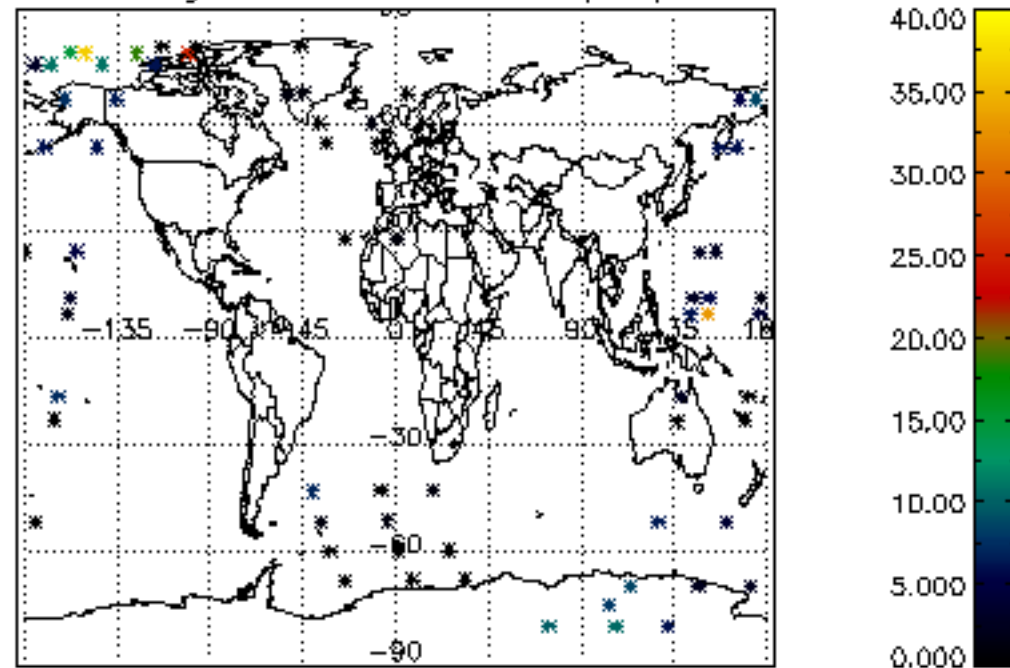
Percentage of datation errors per profile



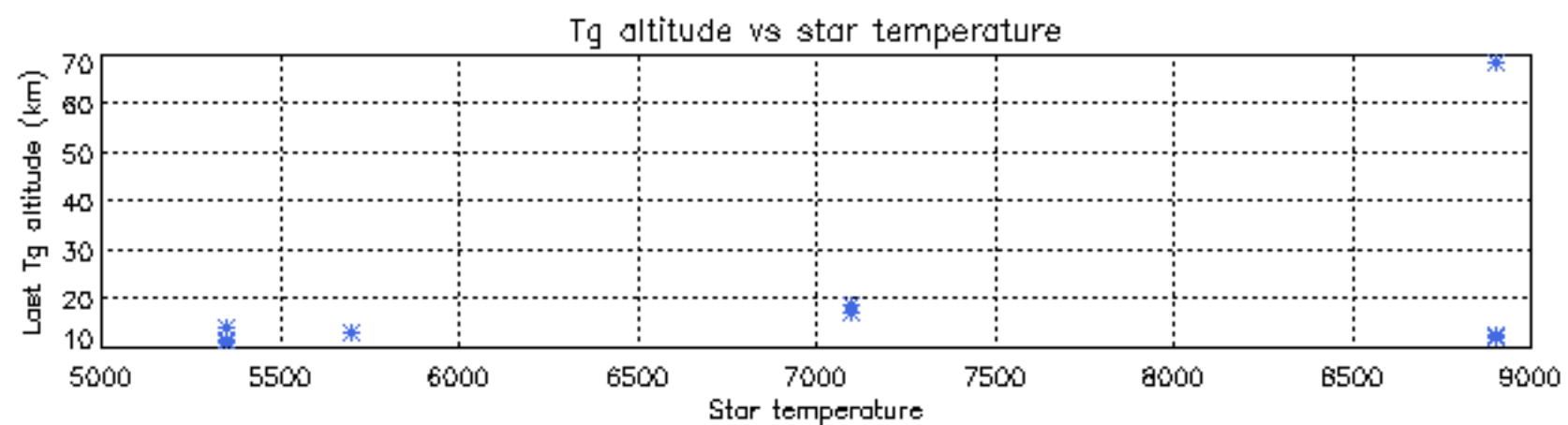
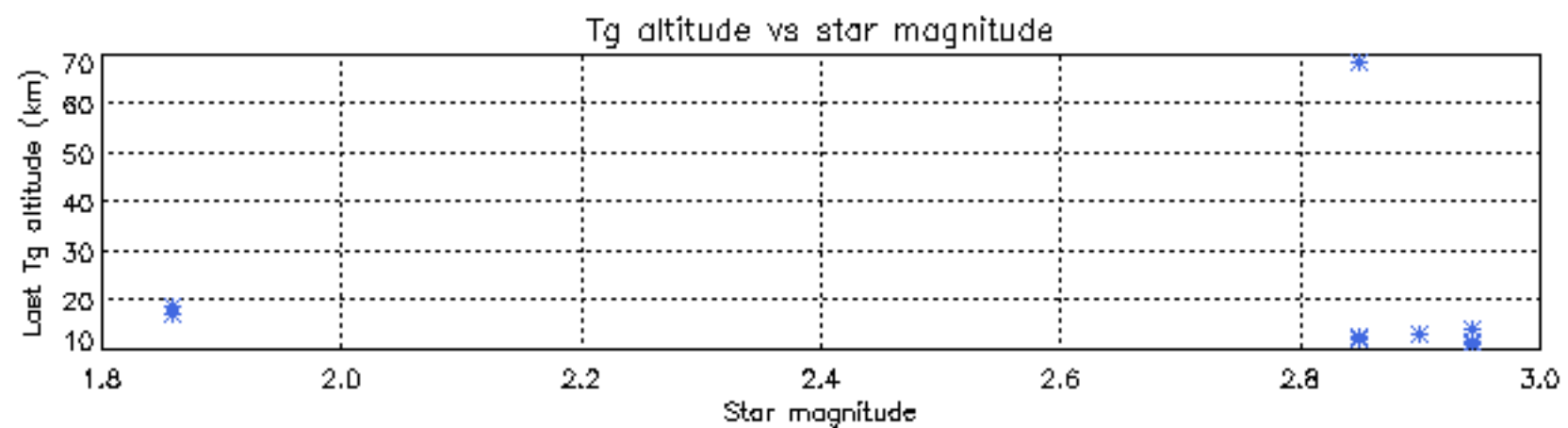
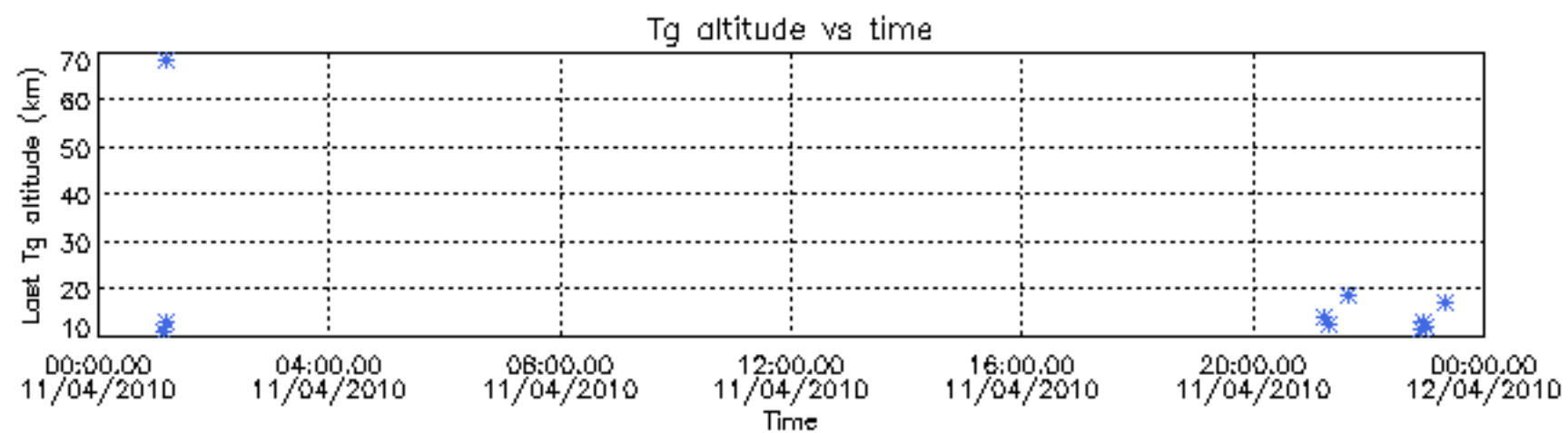
Percentage of star falling outside central band per profile



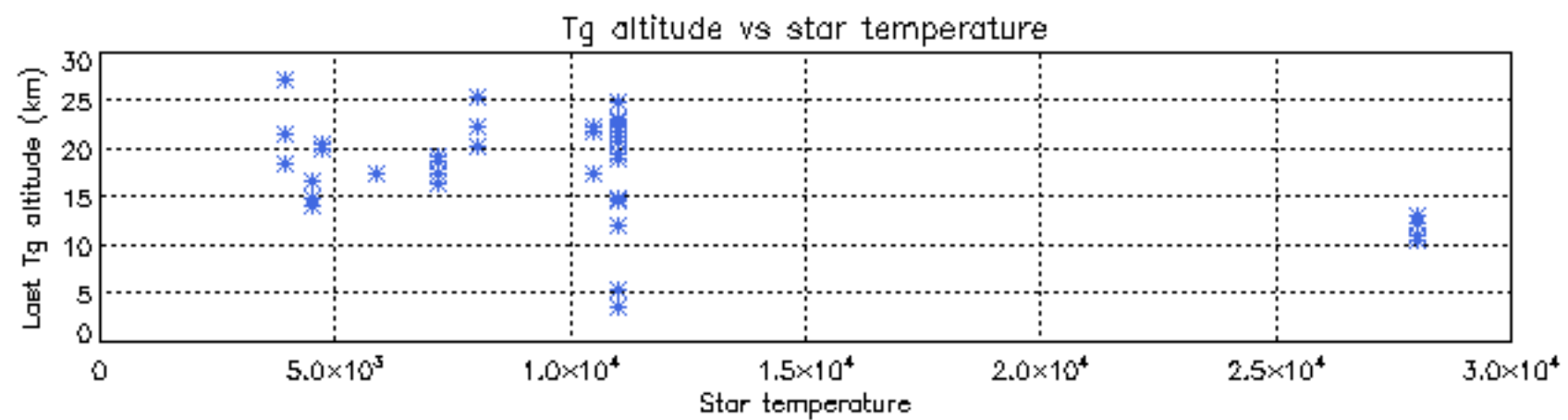
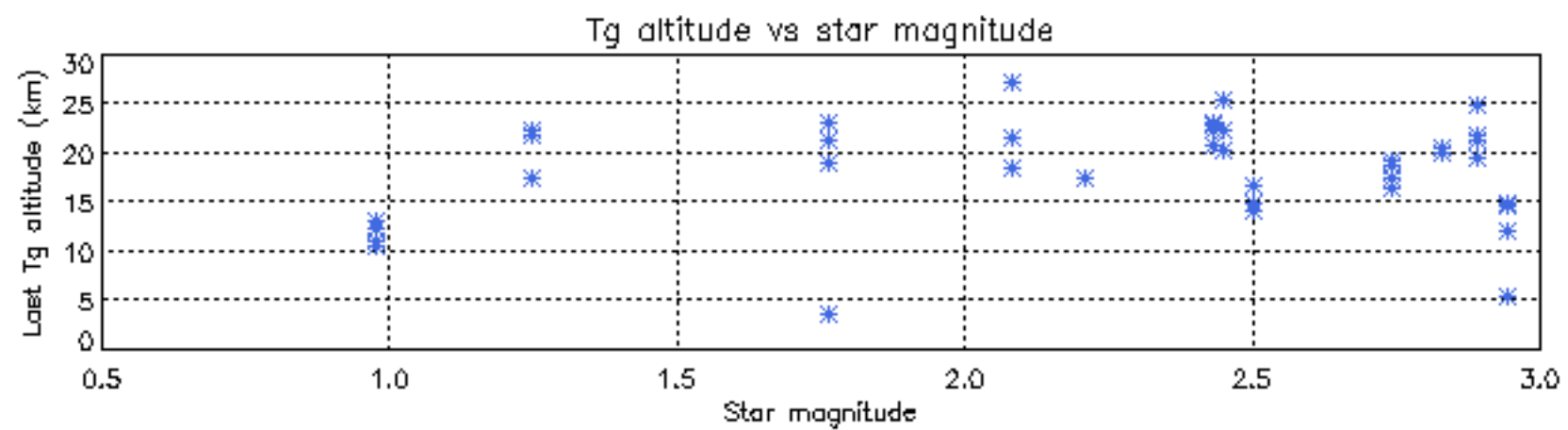
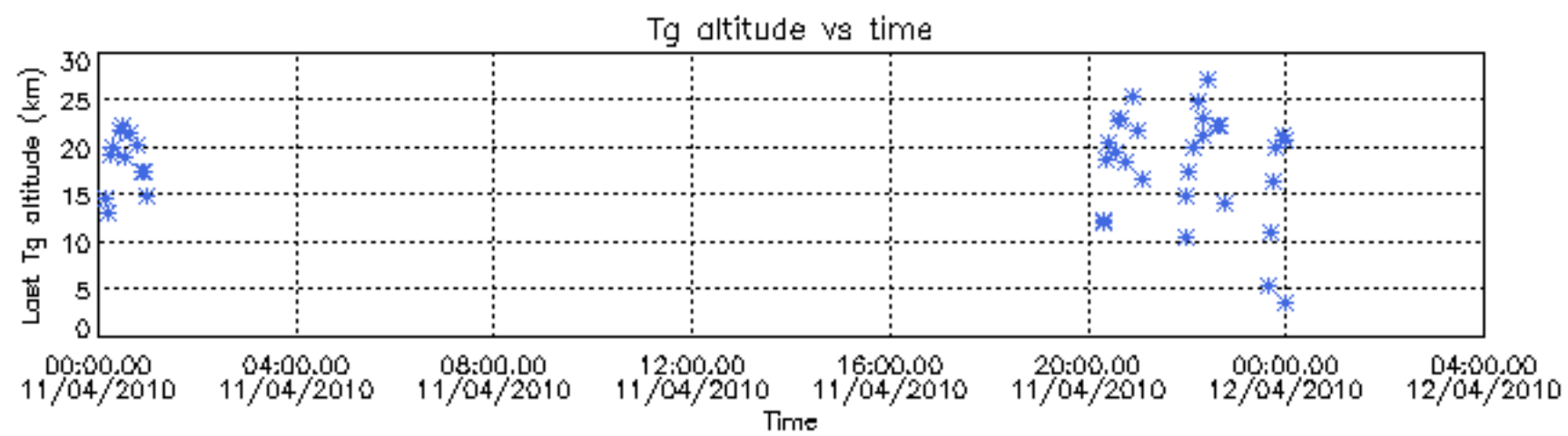
Percentage of saturation errors per profile



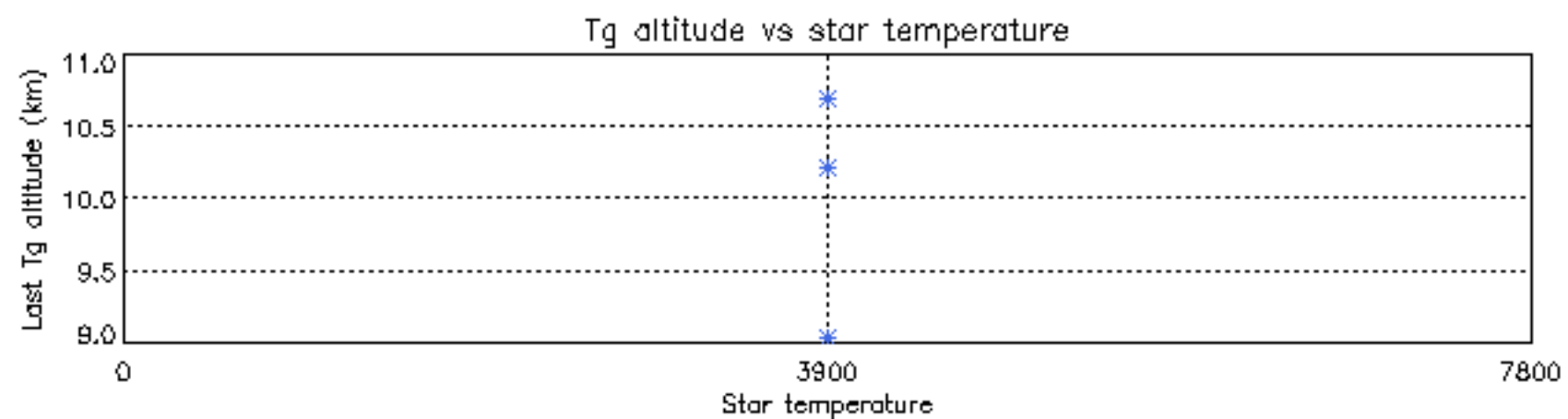
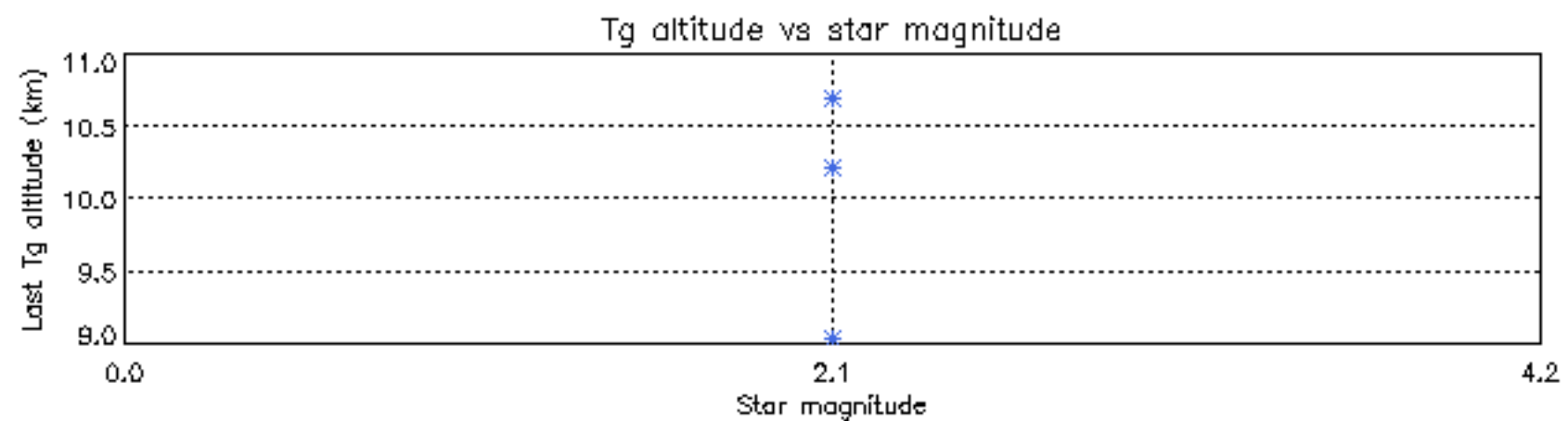
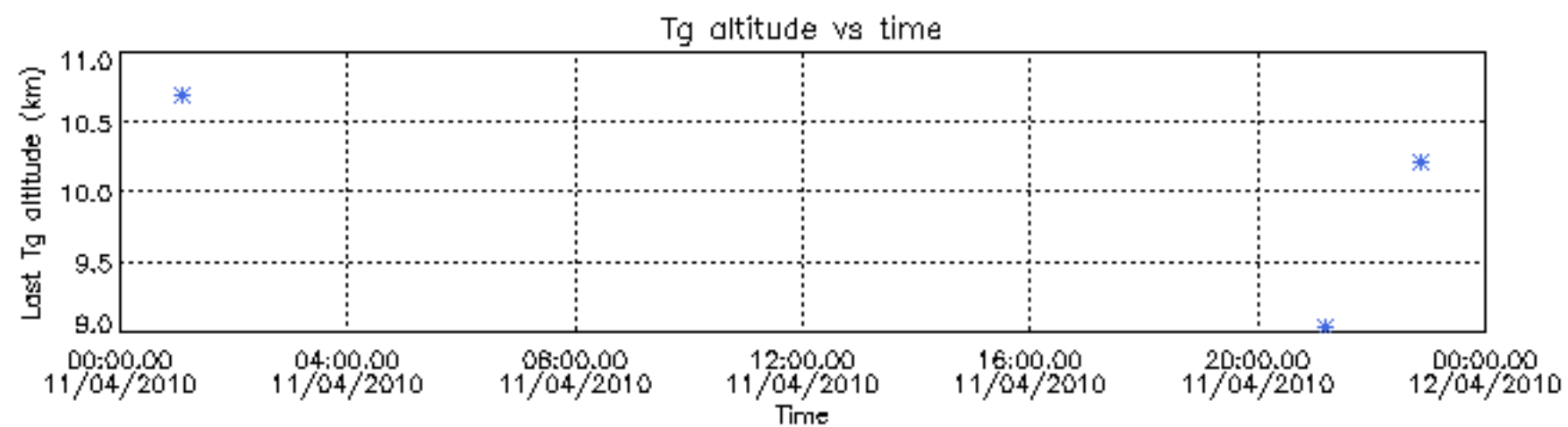
Tangent altitude at which the star is lost

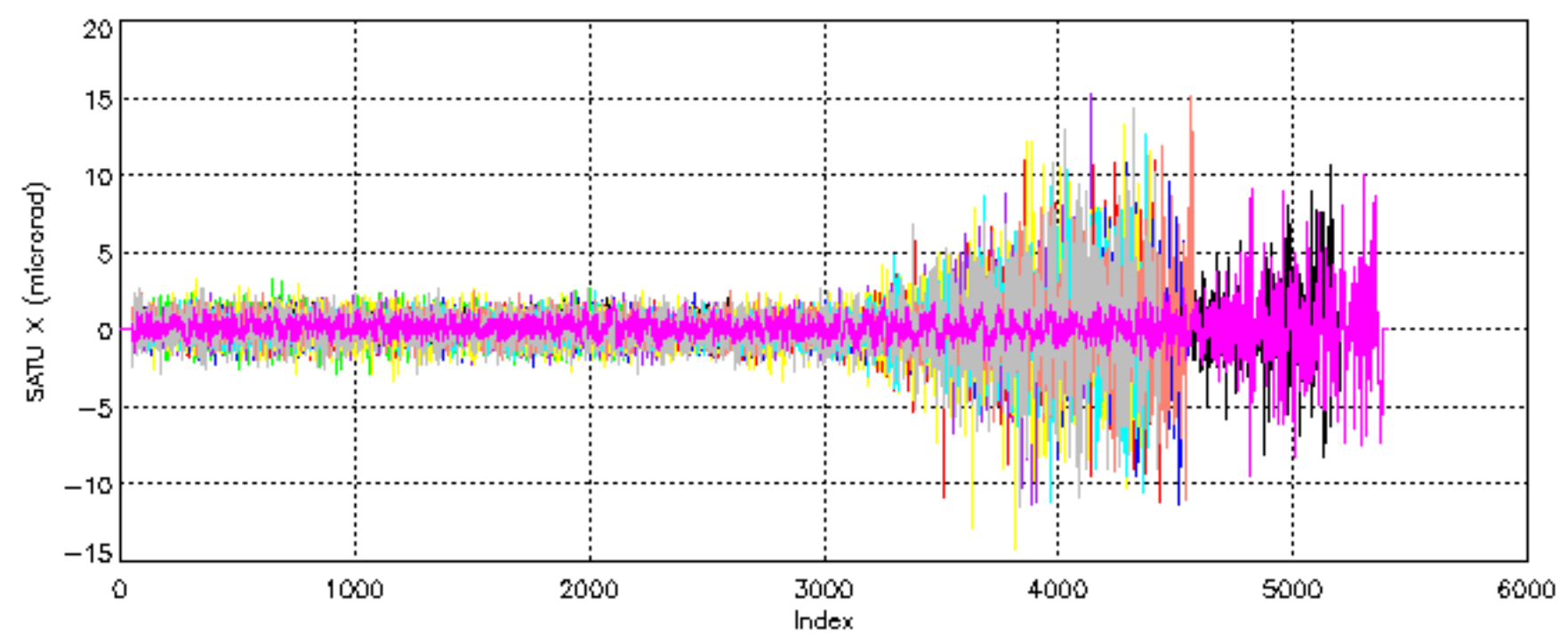


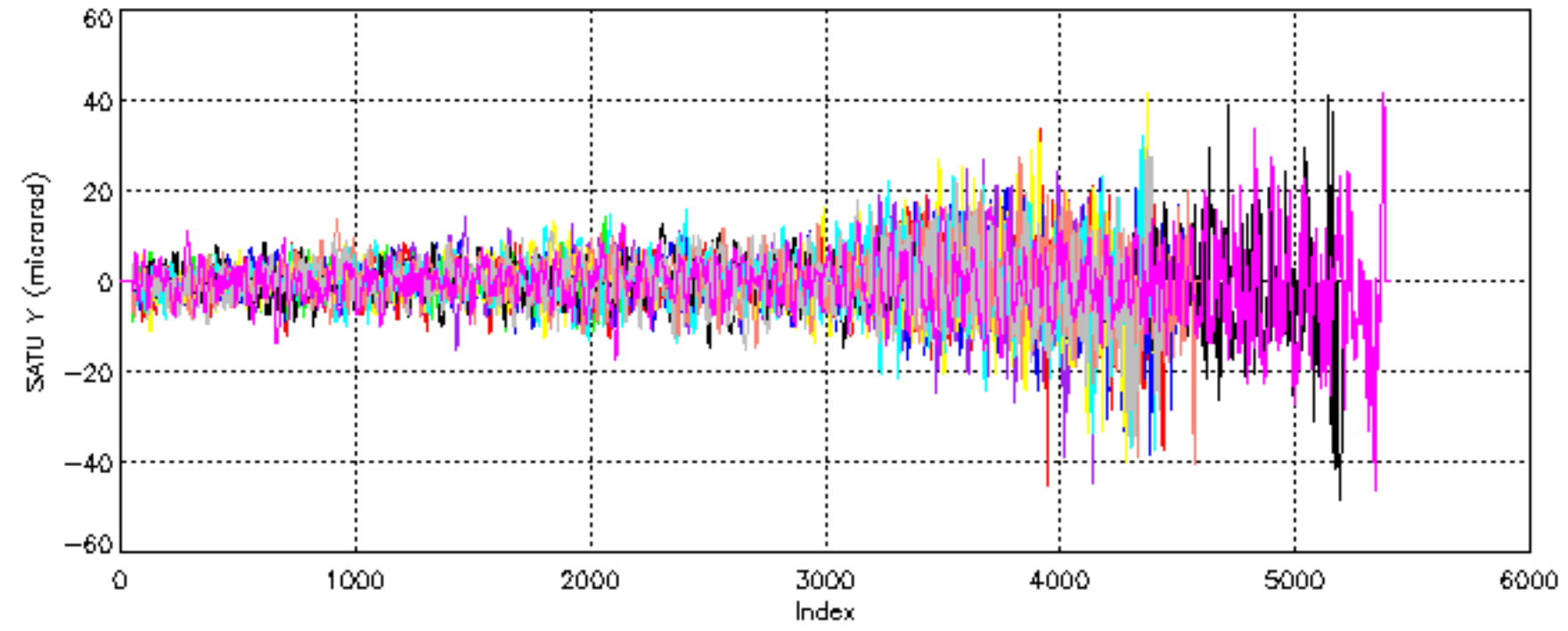
Tangent altitude at which the star is lost

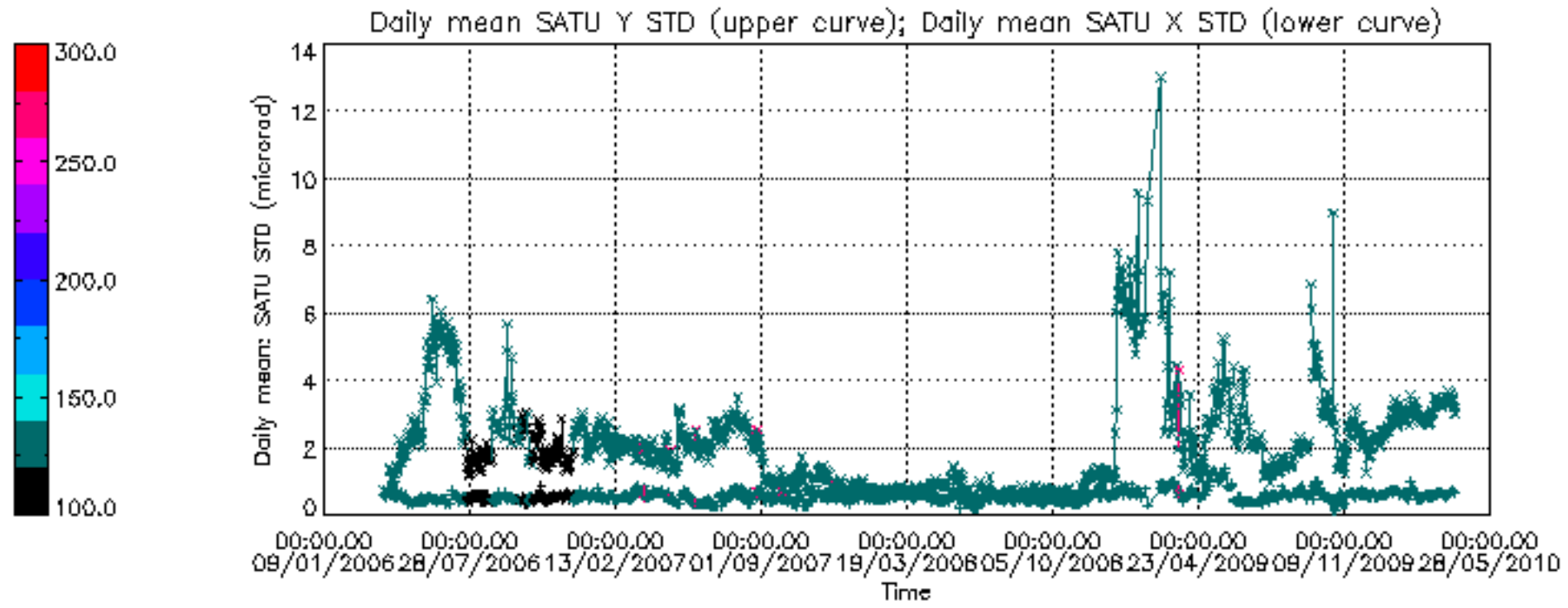


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100401_013233_000036912088_00131_42269_9779.N1

1; -315.4; 01-APR-2010 01:32:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42269
 2; 65.0; 01-APR-2010 01:38:53; Dark ; 57.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 114; 0;42270
 3; 293.1; 01-APR-2010 01:42:41; Dark ; 51.5; 40; The Sco ; 1.86; 7100;occ; 103; 0;42270
 4; 515.4; 01-APR-2010 01:46:23; Dark ; 37.0; 134; Bet TrA ; 2.81; 6600;occ; 74; 0;42270
 5; 673.7; 01-APR-2010 01:49:02; Dark ; 54.5; 4; Alp1Cen ;-0.01; 5800;occ; 109; 0;42270
 6; 838.3; 01-APR-2010 01:51:46; Dark ; 45.5; 78; Alp Lup ; 2.30; 28000;occ; 91; 0;42270
 7; 934.5; 01-APR-2010 01:53:23; Dark ; 48.0; 81; Eta Cen ; 2.36; 28000;occ; 96; 0;42270
 8; 1098.8; 01-APR-2010 01:56:07; Dark ; 51.5; 54; 5The Cen ; 2.06; 4500;occ; 103; 0;42270
 9; 1459.8; 01-APR-2010 02:02:08; Dark ; 46.5; 106; 9Bet Crv ; 2.65; 5600;occ; 93; 0;42270
 10; 1577.7; 01-APR-2010 02:04:06; Dark ; 41.5; 100; 4Gam Crv ; 2.58; 13100;occ; 83; 0;42270
 11; 1883.4; 01-APR-2010 02:09:11; Bright; 45.0; 121; 29Gam Vir ; 2.74; 7200;occ; 90; 0;42270
 12; 2160.8; 01-APR-2010 02:13:49; Bright; 38.5; 62; 94Bet Leo ; 2.14; 9700;occ; 77; 0;42270
 13; 2256.9; 01-APR-2010 02:15:25; Bright; 37.0; 96; 68Del Leo ; 2.56; 9300;occ; 74; 0;42270
 14; 2666.4; 01-APR-2010 02:22:15; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;42270
 15; 2848.5; 01-APR-2010 02:25:17; Bright; 37.0; 87; 64Gam UMa ; 2.43; 11000;occ; 74; 0;42270
 16; 2958.0; 01-APR-2010 02:27:06; Bright; 35.5; 36; 50Alp UMa ; 1.80; 6300;occ; 71; 0;42270
 17; 3338.3; 01-APR-2010 02:33:26; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;42270

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100401_024250_000055142088_00132_42270_9780.N1

1;-2133.9; 01-APR-2010 02:42:50; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;42270
 2;-1836.2; 01-APR-2010 02:47:48; Bright; 43.5; 144; 18Del Cyg ; 2.86; 11000;occ; 87; 0;42270
 3;-1723.2; 01-APR-2010 02:49:41; Bright; 44.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 89; 0;42270
 4;-1601.7; 01-APR-2010 02:51:42; Bright; 45.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 90; 0;42270
 5; -314.5; 01-APR-2010 03:13:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42270
 6; -148.2; 01-APR-2010 03:15:56; Dark ; 55.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 111; 0;42270
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 8; 294.5; 01-APR-2010 03:23:18; Dark ; 51.5; 40; The Sco ; 1.86; 7100;occ; 103; 0;42271
 9; 515.9; 01-APR-2010 03:27:00; Dark ; 40.5; 134; Bet TrA ; 2.81; 6600;occ; 81; 0;42271
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 19; 2666.3; 01-APR-2010 04:02:50; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 0;42271
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 22; 2958.0; 01-APR-2010 05:48:18; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;42272
 23; 3337.6; 01-APR-2010 05:54:38; Bright; 57.5; 60; 7Bet UMi ; 2.08; 3950;occ; 115; 0;42272

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6; 1882.1; 01-APR-2010 20:35:46; Bright; 44.0; 121; 29Gam Vir ; 2.74; 7200;occ; 88; 0;42281
7; 2159.5; 01-APR-2010 20:40:23; Bright; 38.5; 62; 94Bet Leo ; 2.14; 9700;occ; 77; 0;42281
8; 2665.5; 01-APR-2010 20:48:49; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;42281
9; 2846.1; 01-APR-2010 20:51:49; Bright; 37.5; 87; 64Gam UMa ; 2.43; 11000;occ; 75; 0;42281
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11; 3334.8; 01-APR-2010 20:59:58; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;42281
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13; 1881.8; 01-APR-2010 22:16:21; Bright; 44.0; 121; 29Gam Vir ; 2.74; 7200;occ; 88; 0;42282
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22; 4435.4; 01-APR-2010 22:58:55; Bright; 44.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 88; 0;42282
23; 4829.9; 01-APR-2010 23:05:29; Dark ; 46.5; 61; 8Eps Peg ; 2.10; 3900;occ; 93; 0;42282
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13; 1881.7; 01-APR-2010 23:56:57; Bright; 45.0; 121; 29Gam Vir ; 2.74; 7200;occ; 90; 0;42283
14; 2159.6; 02-APR-2010 00:01:35; Bright; 39.5; 62; 94Bet Leo ; 2.14; 9700;occ; 79; 0;42283
15; 2665.6; 02-APR-2010 00:10:01; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;42283
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 9; 517.0; 01-APR-2010 06:48:13; Dark ; 40.5; 134; Bet TrA ; 2.81; 6600;occ; 81; 0;42273
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 13; 1100.6; 01-APR-2010 06:57:57; Dark ; 53.5; 54; 5The Cen ; 2.06; 4500;occ; 107; 0;42273
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 3; 2157.8; 03-APR-2010 07:52:56; Bright; 38.0; 62; 94Bet Leo ; 2.14; 9700;occ; 76; 0;42302
 4; 2661.1; 03-APR-2010 08:01:19; Bright; 42.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 84; 0;42302
 5; 2841.6; 03-APR-2010 08:04:19; Bright; 38.0; 87; 64Gam UMa ; 2.43; 11000;occ; 76; 0;42302
 6; 2946.3; 03-APR-2010 08:06:04; Bright; 41.5; 32; 77Eps UMa ; 1.76; 11000;occ; 83; 0;42302
 7; 3327.6; 03-APR-2010 08:12:25; Bright; 58.0; 60; 7Bet UMi ; 2.08; 3950;occ; 116; 0;42302
 8; 3899.7; 03-APR-2010 08:21:58; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;42302
 9; 4194.5; 03-APR-2010 08:26:52; Bright; 46.0; 144; 18Del Cyg ; 2.86; 11000;occ; 92; 0;42302
 10; 4312.6; 03-APR-2010 08:28:50; Bright; 46.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 93; 0;42302
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 12; 4835.5; 03-APR-2010 08:37:33; Dark ; 48.0; 61; 8Eps Peg ; 2.10; 3900;occ; 96; 0;42302
 13; 5114.2; 03-APR-2010 08:42:12; Dark ; 43.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 87; 0;42302
 14; 5748.3; 03-APR-2010 08:52:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42302
 15; 5929.9; 03-APR-2010 08:55:48; Dark ; 51.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 103; 0;42302
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 17; 6366.1; 03-APR-2010 09:03:04; Dark ; 51.5; 40; The Sco ; 1.86; 7100;occ; 103; 0;42303
 18; 6568.2; 03-APR-2010 09:06:26; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;42303
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 21; 7151.6; 03-APR-2010 09:16:09; Dark ; 51.0; 54; 5The Cen ; 2.06; 4500;occ; 102; 0;42303
 22; 7502.3; 03-APR-2010 09:22:00; Dark ; 42.5; 106; 9Bet Crv ; 2.65; 5600;occ; 85; 0;42303
 23; 7618.5; 03-APR-2010 09:23:56; Dark ; 44.0; 100; 4Gam Crv ; 2.58; 13100;occ; 88; 0;42303
 24; 7723.6; 03-APR-2010 09:25:41; Dark ; 62.5; 15; 67Alp Vir ; 0.98; 28000;occ; 125; 0;42303

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 3; 2660.6; 03-APR-2010 09:41:54; Bright; 43.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 86; 0;42303
 4; 2841.4; 03-APR-2010 09:44:55; Bright; 37.0; 87; 64Gam UMa ; 2.43; 11000;occ; 74; 0;42303
 5; 2945.9; 03-APR-2010 09:46:40; Bright; 40.5; 32; 77Eps UMa ; 1.76; 11000;occ; 81; 0;42303
 6; 3327.5; 03-APR-2010 09:53:01; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;42303
 7; 3899.9; 03-APR-2010 10:02:34; Bright; 50.0; 89; 5Alp Cep ; 2.45; 8000;occ; 100; 0;42303
 8; 4194.4; 03-APR-2010 10:07:28; Bright; 46.5; 144; 18Del Cyg ; 2.86; 11000;occ; 93; 0;42303
 9; 4312.7; 03-APR-2010 10:09:26; Bright; 46.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 93; 0;42303
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 13; 5749.1; 03-APR-2010 10:33:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42303
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22; 7618.3; 03-APR-2010 11:04:32; Dark ; 42.5; 100; 4Gam Crv ; 2.58; 13100;occ; 85; 0;42304
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 3; 2157.4; 03-APR-2010 11:14:07; Bright; 38.0; 62; 94Bet Leo ; 2.14; 9700;occ; 76; 0;42304
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 5; 2841.2; 03-APR-2010 11:25:31; Bright; 39.0; 87; 64Gam UMa ; 2.43; 11000;occ; 78; 0;42304
 6; 2945.7; 03-APR-2010 11:27:15; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;42304
 7; 3327.0; 03-APR-2010 11:33:37; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;42304
 8; 3899.6; 03-APR-2010 11:43:09; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;42304
 9; 4194.3; 03-APR-2010 11:48:04; Bright; 46.0; 144; 18Del Cyg ; 2.86; 11000;occ; 92; 0;42304
10; 4312.6; 03-APR-2010 11:50:02; Bright; 64.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 128; 0;42304
11; 4437.6; 03-APR-2010 11:52:07; Bright; 46.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 92; 0;42304
12; 4836.2; 03-APR-2010 11:58:46; Dark ; 46.0; 61; 8Eps Peg ; 2.10; 3900;occ; 92; 0;42304
13; 5114.7; 03-APR-2010 12:03:24; Dark ; 44.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 89; 0;42304
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17; 6368.2; 03-APR-2010 12:24:18; Dark ; 54.5; 40; The Sco ; 1.86; 7100;occ; 109; 0;42305
18; 6569.0; 03-APR-2010 12:27:39; Dark ; 40.5; 134; Bet TrA ; 2.81; 6600;occ; 81; 0;42305
19; 6895.4; 03-APR-2010 12:33:05; Dark ; 45.5; 78; Alp Lup ; 2.30; 28000;occ; 91; 0;42305
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21; 7152.5; 03-APR-2010 12:37:22; Dark ; 51.5; 54; 5The Cen ; 2.06; 4500;occ; 103; 0;42305
22; 7502.7; 03-APR-2010 12:43:12; Dark ; 47.5; 106; 9Bet Crv ; 2.65; 5600;occ; 95; 0;42305
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 3; 2157.4; 03-APR-2010 12:54:43; Bright; 37.5; 62; 94Bet Leo ; 2.14; 9700;occ; 75; 0;42305
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 6; 2945.2; 03-APR-2010 13:07:51; Bright; 43.5; 32; 77Eps UMa ; 1.76; 11000;occ; 87; 0;42305
 7; 3326.8; 03-APR-2010 13:14:12; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;42305
 8; 3899.8; 03-APR-2010 13:23:45; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;42305
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11; 4438.1; 03-APR-2010 13:32:43; Bright; 43.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 87; 0;42305
12; 4836.6; 03-APR-2010 13:39:22; Dark ; 46.5; 61; 8Eps Peg ; 2.10; 3900;occ; 93; 0;42305
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18; 6569.8; 03-APR-2010 14:08:15; Dark ; 40.0; 134; Bet TrA ; 2.81; 6600;occ; 80; 0;42306
19; 6896.1; 03-APR-2010 14:13:42; Dark ; 46.0; 78; Alp Lup ; 2.30; 28000;occ; 92; 0;42306
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 3; 1687.6; 03-APR-2010 14:27:29; Dark ; 60.5; 15; 67Alp Vir ; 0.98; 28000;occ; 121; 0;42306
 4; 1879.6; 03-APR-2010 14:30:41; Bright; 43.0; 121; 29Gam Vir ; 2.74; 7200;occ; 86; 0;42306
 5; 2157.3; 03-APR-2010 14:35:19; Bright; 38.5; 62; 94Bet Leo ; 2.14; 9700;occ; 77; 0;42306
 6; 2659.4; 03-APR-2010 14:43:41; Bright; 42.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 84; 0;42306
 7; 2840.5; 03-APR-2010 14:46:42; Bright; 37.5; 87; 64Gam UMa ; 2.43; 11000;occ; 75; 0;42306
 8; 2944.7; 03-APR-2010 14:48:26; Bright; 40.5; 32; 77Eps UMa ; 1.76; 11000;occ; 81; 0;42306
 9; 3326.6; 03-APR-2010 14:54:48; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;42306
10; 3899.8; 03-APR-2010 15:04:21; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;42306
11; 4194.2; 03-APR-2010 15:09:15; Bright; 48.5; 144; 18Del Cyg ; 2.86; 11000;occ; 97; 0;42306
12; 4312.8; 03-APR-2010 15:11:14; Bright; 47.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 95; 0;42306

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 18; 6150.4; 03-APR-2010 15:41:52; Dark ; 53.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 107; 0;42307
 19; 6370.4; 03-APR-2010 15:45:32; Dark ; 54.5; 40; The Sco ; 1.86; 7100;occ; 109; 0;42307
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 4; 1687.5; 03-APR-2010 16:08:05; Dark ; 68.0; 15; 67Alp Vir ; 0.98; 28000;occ; 136; 0;42307
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 9; 2944.2; 03-APR-2010 16:29:01; Bright; 43.0; 32; 77Eps UMa ; 1.76; 11000;occ; 86; 0;42307
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 13; 4312.6; 03-APR-2010 16:51:50; Bright; 47.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 94; 0;42307
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 2; 1878.5; 04-APR-2010 10:37:51; Bright; 42.5; 121; 29Gam Vir ; 2.74; 7200;occ; 85; 0;42318
 3; 2156.8; 04-APR-2010 10:42:29; Bright; 38.5; 62; 94Bet Leo ; 2.14; 9700;occ; 77; 0;42318
 4; 2652.8; 04-APR-2010 10:50:45; Bright; 42.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 84; 0;42318
 5; 2838.3; 04-APR-2010 10:53:51; Bright; 39.0; 87; 64Gam UMa ; 2.43; 11000;occ; 78; 0;42318
 6; 2939.8; 04-APR-2010 10:55:32; Bright; 41.5; 32; 77Eps UMa ; 1.76; 11000;occ; 83; 0;42318
 7; 3322.6; 04-APR-2010 11:01:55; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;42318
 8; 3898.6; 04-APR-2010 11:11:31; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;42318
 9; 4191.9; 04-APR-2010 11:16:24; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;42318
 10; 4312.3; 04-APR-2010 11:18:25; Bright; 65.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 130; 0;42318
 11; 4439.3; 04-APR-2010 11:20:32; Bright; 45.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 90; 0;42318
 12; 4840.4; 04-APR-2010 11:27:13; Dark ; 47.5; 61; 8Eps Peg ; 2.10; 3900;occ; 95; 0;42318
 13; 5120.4; 04-APR-2010 11:31:53; Dark ; 44.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 89; 0;42318
 14; 5762.2; 04-APR-2010 11:42:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42318
 15; 5950.4; 04-APR-2010 11:45:43; Dark ; 53.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 106; 0;42318
 16; 6166.8; 04-APR-2010 11:49:19; Dark ; 55.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 110; 0;42319
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 19; 6903.8; 04-APR-2010 12:01:36; Dark ; 44.5; 78; Alp Lup ; 2.30; 28000;occ; 89; 0;42319
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 22; 7505.4; 04-APR-2010 12:11:38; Dark ; 46.0; 106; 9Bet Crv ; 2.65; 5600;occ; 92; 0;42319
 23; 7620.5; 04-APR-2010 12:13:33; Dark ; 43.5; 100; 4Gam Crv ; 2.58; 13100;occ; 87; 0;42319
 24; 7723.4; 04-APR-2010 12:15:16; Dark ; 2.0; 15; 67Alp Vir ; 0.98; 28000;occ; 4; 0;42319

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 3; 2156.7; 04-APR-2010 12:23:05; Bright; 37.0; 62; 94Bet Leo ; 2.14; 9700;occ; 74; 0;42319
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 5; 2838.2; 04-APR-2010 12:34:27; Bright; 38.0; 87; 64Gam UMa ; 2.43; 11000;occ; 76; 0;42319
 6; 2939.4; 04-APR-2010 12:36:08; Bright; 39.5; 32; 77Eps UMa ; 1.76; 11000;occ; 79; 0;42319
 7; 3322.1; 04-APR-2010 12:42:30; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;42319
 8; 3898.7; 04-APR-2010 12:52:07; Bright; 36.0; 89; 5Alp Cep ; 2.45; 8000;occ; 72; 0;42319
 9; 4191.6; 04-APR-2010 12:57:00; Bright; 47.0; 144; 18Del Cyg ; 2.86; 11000;occ; 94; 0;42319
 10; 4312.1; 04-APR-2010 12:59:00; Bright; 46.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 93; 0;42319
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 12; 4840.6; 04-APR-2010 13:07:49; Dark ; 45.0; 61; 8Eps Peg ; 2.10; 3900;occ; 90; 0;42319
 13; 5120.9; 04-APR-2010 13:12:29; Dark ; 43.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 86; 0;42319
 14; 5763.1; 04-APR-2010 13:23:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42319
 15; 5951.7; 04-APR-2010 13:26:20; Dark ; 54.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 108; 0;42319
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 17; 6384.9; 04-APR-2010 13:33:33; Dark ; 50.0; 40; The Sco ; 1.86; 7100;occ; 100; 0;42320
 18; 6576.6; 04-APR-2010 13:36:45; Dark ; 40.5; 134; Bet TrA ; 2.81; 6600;occ; 81; 0;42320
 19; 6904.4; 04-APR-2010 13:42:13; Dark ; 41.5; 78; Alp Lup ; 2.30; 28000;occ; 83; 0;42320
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 21; 7160.0; 04-APR-2010 13:46:28; Dark ; 51.5; 54; 5The Cen ; 2.06; 4500;occ; 103; 0;42320
 22; 7505.6; 04-APR-2010 13:52:14; Dark ; 46.5; 106; 9Bet Crv ; 2.65; 5600;occ; 93; 0;42320

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 3; 1687.6; 04-APR-2010 13:55:52; Dark ; 59.5; 15; 67Alp Vir ; 0.98; 28000;occ; 119; 0;42320
 4; 1878.3; 04-APR-2010 13:59:02; Bright; 42.5; 121; 29Gam Vir ; 2.74; 7200;occ; 85; 0;42320
 5; 2156.7; 04-APR-2010 14:03:41; Bright; 38.0; 62; 94Bet Leo ; 2.14; 9700;occ; 76; 0;42320

6; 2651.8; 04-APR-2010 14:11:56; Bright; 44.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 89; 0;42320
7; 2838.0; 04-APR-2010 14:15:02; Bright; 37.5; 87; 64Gam UMa ; 2.43; 11000;occ; 75; 0;42320
8; 2939.2; 04-APR-2010 14:16:43; Bright; 40.0; 32; 77Eps UMa ; 1.76; 11000;occ; 80; 0;42320
9; 3322.0; 04-APR-2010 14:23:06; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;42320
10; 3899.0; 04-APR-2010 14:32:43; Bright; 35.0; 89; 5Alp Cep ; 2.45; 8000;occ; 70; 0;42320
11; 4191.6; 04-APR-2010 14:37:36; Bright; 47.0; 144; 18Del Cyg ; 2.86; 11000;occ; 94; 0;42320
12; 4312.5; 04-APR-2010 14:39:37; Bright; 61.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 122; 0;42320
13; 4439.5; 04-APR-2010 14:41:44; Bright; 47.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 94; 0;42320
14; 4841.1; 04-APR-2010 14:48:25; Dark ; 47.5; 61; 8Eps Peg ; 2.10; 3900;occ; 95; 0;42320
15; 5121.4; 04-APR-2010 14:53:06; Dark ; 44.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 88; 0;42320
16; 5764.1; 04-APR-2010 15:03:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42320
17; 5953.2; 04-APR-2010 15:06:57; Dark ; 52.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 104; 0;42320
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19; 6386.5; 04-APR-2010 15:14:11; Dark ; 56.0; 40; The Sco ; 1.86; 7100;occ; 112; 0;42321
20; 6577.2; 04-APR-2010 15:17:21; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;42321
21; 6905.2; 04-APR-2010 15:22:49; Dark ; 42.5; 78; Alp Lup ; 2.30; 28000;occ; 85; 0;42321
22; 7001.6; 04-APR-2010 15:24:26; Dark ; 48.5; 81; Eta Cen ; 2.36; 28000;occ; 97; 0;42321
23; 7160.5; 04-APR-2010 15:27:05; Dark ; 50.5; 54; 5The Cen ; 2.06; 4500;occ; 101; 0;42321

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3; 1687.4; 04-APR-2010 15:36:27; Dark ; 62.5; 15; 67Alp Vir ; 0.98; 28000;occ; 125; 0;42321
4; 1878.1; 04-APR-2010 15:39:38; Bright; 43.5; 121; 29Gam Vir ; 2.74; 7200;occ; 87; 0;42321
5; 2156.6; 04-APR-2010 15:44:17; Bright; 37.5; 62; 94Bet Leo ; 2.14; 9700;occ; 75; 0;42321
6; 2651.4; 04-APR-2010 15:52:31; Bright; 41.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 83; 0;42321
7; 2837.8; 04-APR-2010 15:55:38; Bright; 38.0; 87; 64Gam UMa ; 2.43; 11000;occ; 76; 0;42321
8; 2938.6; 04-APR-2010 15:57:19; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;42321
9; 3321.8; 04-APR-2010 16:03:42; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;42321
10; 3898.5; 04-APR-2010 16:13:19; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;42321
11; 4191.2; 04-APR-2010 16:18:11; Bright; 46.0; 144; 18Del Cyg ; 2.86; 11000;occ; 92; 0;42321
12; 4312.2; 04-APR-2010 16:20:12; Bright; 48.0; 66; 37Gam Cyg ; 2.21; 5900;occ; 96; 0;42321
13; 4439.9; 04-APR-2010 16:22:20; Bright; 46.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 92; 0;42321
14; 4841.5; 04-APR-2010 16:29:02; Dark ; 47.0; 61; 8Eps Peg ; 2.10; 3900;occ; 94; 0;42321
15; 5121.6; 04-APR-2010 16:33:42; Dark ; 45.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 91; 0;42321
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17; 5954.4; 04-APR-2010 16:47:35; Dark ; 53.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 107; 0;42321
18; 6171.4; 04-APR-2010 16:51:12; Dark ; 60.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 120; 0;42322
19; 6387.5; 04-APR-2010 16:54:48; Dark ; 56.5; 40; The Sco ; 1.86; 7100;occ; 113; 0;42322
20; 6578.0; 04-APR-2010 16:57:58; Dark ; 38.5; 134; Bet TrA ; 2.81; 6600;occ; 77; 0;42322
21; 6905.7; 04-APR-2010 17:03:26; Dark ; 44.0; 78; Alp Lup ; 2.30; 28000;occ; 88; 0;42322
22; 7002.4; 04-APR-2010 17:05:02; Dark ; 46.5; 81; Eta Cen ; 2.36; 28000;occ; 93; 0;42322

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3; 1470.0; 04-APR-2010 17:13:26; Dark ; 47.0; 106; 9Bet Crv ; 2.65; 5600;occ; 94; 0;42322
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5; 1687.4; 04-APR-2010 17:17:04; Dark ; 59.0; 15; 67Alp Vir ; 0.98; 28000;occ; 118; 0;42322
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7; 2156.6; 04-APR-2010 17:24:53; Bright; 37.5; 62; 94Bet Leo ; 2.14; 9700;occ; 75; 0;42322
8; 2650.9; 04-APR-2010 17:33:07; Bright; 41.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 82; 0;42322
9; 2837.8; 04-APR-2010 17:36:14; Bright; 38.0; 87; 64Gam UMa ; 2.43; 11000;occ; 76; 0;42322
10; 2938.3; 04-APR-2010 17:37:54; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;42322
11; 3321.3; 04-APR-2010 17:44:17; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;42322
12; 3898.4; 04-APR-2010 17:53:55; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;42322
13; 4190.9; 04-APR-2010 17:58:47; Bright; 41.0; 144; 18Del Cyg ; 2.86; 11000;occ; 82; 0;42322
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19; 5955.8; 04-APR-2010 18:28:12; Dark ; 51.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 103; 0;42322
20; 6172.4; 04-APR-2010 18:31:49; Dark ; 56.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 112; 0;42323
21; 6388.8; 04-APR-2010 18:35:25; Dark ; 50.0; 40; The Sco ; 1.86; 7100;occ; 100; 0;42323
22; 6578.3; 04-APR-2010 18:38:34; Dark ; 40.5; 134; Bet TrA ; 2.81; 6600;occ; 81; 0;42323
23; 6906.3; 04-APR-2010 18:44:02; Dark ; 45.5; 78; Alp Lup ; 2.30; 28000;occ; 91; 0;42323
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5; 1585.3; 04-APR-2010 18:55:57; Dark ; 40.0; 100; 4Gam Crv ; 2.58; 13100;occ; 80; 0;42323
6; 1687.6; 04-APR-2010 18:57:40; Dark ; 63.5; 15; 67Alp Vir ; 0.98; 28000;occ; 127; 0;42323
7; 1878.3; 04-APR-2010 19:00:50; Bright; 41.5; 121; 29Gam Vir ; 2.74; 7200;occ; 83; 0;42323
8; 2156.5; 04-APR-2010 19:05:29; Bright; 38.5; 62; 94Bet Leo ; 2.14; 9700;occ; 77; 0;42323
9; 2650.4; 04-APR-2010 19:13:43; Bright; 40.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 81; 0;42323
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13; 3898.4; 04-APR-2010 19:34:31; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;42323
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21; 6173.8; 04-APR-2010 20:12:26; Dark ; 56.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 112; 0;42324
22; 6389.6; 04-APR-2010 20:16:02; Dark ; 62.0; 40; The Sco ; 1.86; 7100;occ; 124; 0;42324
23; 6578.7; 04-APR-2010 20:19:11; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;42324
24; 6906.8; 04-APR-2010 20:24:39; Dark ; 45.5; 78; Alp Lup ; 2.30; 28000;occ; 91; 0;42324
25; 7003.3; 04-APR-2010 20:26:15; Dark ; 47.5; 81; Eta Cen ; 2.36; 28000;occ; 95; 0;42324
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3; 1470.3; 04-APR-2010 20:34:38; Dark ; 42.5; 106; 9Bet Crv ; 2.65; 5600;occ; 85; 0;42324
4; 1585.4; 04-APR-2010 20:36:34; Dark ; 42.5; 100; 4Gam Crv ; 2.58; 13100;occ; 85; 0;42324
5; 1687.4; 04-APR-2010 20:38:16; Dark ; 64.5; 15; 67Alp Vir ; 0.98; 28000;occ; 129; 0;42324
6; 1878.1; 04-APR-2010 20:41:26; Bright; 42.0; 121; 29Gam Vir ; 2.74; 7200;occ; 84; 0;42324
7; 2156.4; 04-APR-2010 20:46:04; Bright; 38.0; 62; 94Bet Leo ; 2.14; 9700;occ; 76; 0;42324
8; 2649.8; 04-APR-2010 20:54:18; Bright; 41.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 82; 0;42324
9; 2837.1; 04-APR-2010 20:57:25; Bright; 35.5; 87; 64Gam UMa ; 2.43; 11000;occ; 71; 0;42324
10; 2937.6; 04-APR-2010 20:59:06; Bright; 39.5; 32; 77Eps UMa ; 1.76; 11000;occ; 79; 0;42324
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12; 3898.1; 04-APR-2010 21:15:06; Bright; 37.0; 89; 5Alp Cep ; 2.45; 8000;occ; 74; 0;42324
13; 4190.8; 04-APR-2010 21:19:59; Bright; 35.0; 144; 18Del Cyg ; 2.86; 11000;occ; 70; 0;42324
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33; 7913.7; 05-APR-2010 03:23:49; Bright; 43.0; 121; 29Gam Vir ; 2.74; 7200;occ; 86; 0;42328
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 7; 2923.3; 07-APR-2010 12:41:36; Bright; 39.0; 32; 77Eps UMa ; 1.76; 11000;occ; 78; 0;42362
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4;	161.6;	29-APR-2010	02:00:34;	Dark	;	43.0;	45;	Alp	Pav	;	1.94;	26000;	occ;	86;	0;	42671
5;	617.1;	29-APR-2010	02:08:10;	Dark	;	54.0;	141;	Bet	Ara	;	2.84;	4600;	occ;	108;	0;	42671
6;	720.3;	29-APR-2010	02:09:53;	Dark	;	51.5;	40;	The	Sco	;	1.86;	7100;	occ;	103;	0;	42671
7;	1120.6;	29-APR-2010	02:16:33;	Dark	;	43.0;	81;	Eta	Cen	;	2.36;	28000;	occ;	86;	0;	42671
8;	1587.0;	29-APR-2010	02:24:19;	Bright	;	46.0;	122;	9Alp2	Lib	;	2.75;	9700;	occ;	92;	0;	42671
9;	2239.2;	29-APR-2010	02:35:12;	Bright	;	40.5;	111;	8Eta	Boo	;	2.68;	6000;	occ;	81;	0;	42671
10;	2472.1;	29-APR-2010	02:39:05;	Bright	;	49.0;	83;			;	2.38;	11000;	occ;	98;	0;	42671
11;	2650.4;	29-APR-2010	02:42:03;	Bright	;	42.0;	180;	27Gam	Boo	;	3.04;	8000;	occ;	84;	0;	42671
12;	2777.6;	29-APR-2010	02:44:10;	Bright	;	37.5;	39;	85Eta	UMa	;	1.85;	24000;	occ;	75;	0;	42671
13;	2854.5;	29-APR-2010	02:45:27;	Bright	;	37.5;	55;	79Zet	UMa	;	2.06;	10200;	occ;	75;	0;	42671
14;	3225.4;	29-APR-2010	02:51:38;	Bright	;	39.0;	60;	7Bet	UMi	;	2.08;	3950;	occ;	78;	0;	42671

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2;	-1532.2;	29-APR-2010	03:12:56;	Bright	;	45.0;	164;	44Eta	Peg	;	2.95;	5400;	occ;	90;	0;	42671
3;	-1271.1;	29-APR-2010	03:17:17;	Dark	;	46.0;	90;	54Alp	Peg	;	2.49;	11000;	occ;	92;	0;	42671
4;	-880.6;	29-APR-2010	03:23:48;	Dark	;	54.5;	162;	34Alp	Aqr	;	2.94;	5350;	occ;	109;	0;	42671
5;	-546.7;	29-APR-2010	03:29:22;	Dark	;	50.0;	142;	49Del	Cap	;	2.85;	8900;	occ;	100;	0;	42671
6;	-384.7;	29-APR-2010	03:32:04;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	42671
7;	-259.7;	29-APR-2010	03:34:09;	Dark	;	43.5;	172;	Gam	Gru	;	3.00;	13100;	occ;	87;	0;	42671
8;	162.3;	29-APR-2010	03:41:11;	Dark	;	45.5;	45;	Alp	Pav	;	1.94;	26000;	occ;	91;	0;	42672
9;	617.6;	29-APR-2010	03:48:46;	Dark	;	45.0;	141;	Bet	Ara	;	2.84;	4600;	occ;	90;	0;	42672
10;	721.1;	29-APR-2010	03:50:30;	Dark	;	55.0;	40;	The	Sco	;	1.86;	7100;	occ;	110;	0;	42672
11;	1121.2;	29-APR-2010	03:57:10;	Dark	;	41.5;	81;	Eta	Cen	;	2.36;	28000;	occ;	83;	0;	42672
12;	1587.1;	29-APR-2010	04:04:56;	Bright	;	46.5;	122;	9Alp2	Lib	;	2.75;	9700;	occ;	93;	0;	42672
13;	2238.7;	29-APR-2010	04:15:47;	Bright	;	39.0;	111;	8Eta	Boo	;	2.68;	6000;	occ;	78;	0;	42672
14;	2471.6;	29-APR-2010	04:19:40;	Bright	;	48.0;	83;			;	2.38;	11000;	occ;	96;	0;	42672
15;	2650.0;	29-APR-2010	04:22:38;	Bright	;	41.0;	180;	27Gam	Boo	;	3.04;	8000;	occ;	82;	0;	42672
16;	2777.6;	29-APR-2010	04:24:46;	Bright	;	38.0;	39;	85Eta	UMa	;	1.85;	24000;	occ;	76;	0;	42672
17;	2854.6;	29-APR-2010	04:26:03;	Bright	;	37.5;	55;	79Zet	UMa	;	2.06;	10200;	occ;	75;	0;	42672
18;	3225.3;	29-APR-2010	04:32:14;	Bright	;	39.0;	60;	7Bet	UMi	;	2.08;	3950;	occ;	78;	0;	42672

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2;	-1532.0;	29-APR-2010	04:53:33;	Bright	;	42.5;	164;	44Eta	Peg	;	2.95;	5400;	occ;	85;	0;	42672
3;	-1270.4;	29-APR-2010	04:57:54;	Dark	;	44.0;	90;	54Alp	Peg	;	2.49;	11000;	occ;	88;	0;	42672
4;	-879.7;	29-APR-2010	05:04:25;	Dark	;	55.0;	162;	34Alp	Aqr	;	2.94;	5350;	occ;	110;	0;	42672
5;	-545.7;	29-APR-2010	05:09:59;	Dark	;	51.5;	142;	49Del	Cap	;	2.85;	8900;	occ;	103;	0;	42672
6;	-384.2;	29-APR-2010	05:12:40;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	42672
7;	-259.4;	29-APR-2010	05:14:45;	Dark	;	41.0;	172;	Gam	Gru	;	3.00;	13100;	occ;	82;	0;	42672
8;	162.6;	29-APR-2010	05:21:47;	Dark	;	40.5;	45;	Alp	Pav	;	1.94;	26000;	occ;	81;	0;	42673
9;	618.4;	29-APR-2010	05:29:23;	Dark	;	43.0;	141;	Bet	Ara	;	2.84;	4600;	occ;	86;	0;	42673
10;	722.0;	29-APR-2010	05:31:07;	Dark	;	57.0;	40;	The	Sco	;	1.86;	7100;	occ;	114;	0;	42673
11;	1121.2;	29-APR-2010	05:37:46;	Dark	;	40.5;	81;	Eta	Cen	;	2.36;	28000;	occ;	81;	0;	42673
12;	1587.2;	29-APR-2010	05:45:32;	Bright	;	45.5;	122;	9Alp2	Lib	;	2.75;	9700;	occ;	91;	0;	42673
13;	2238.2;	29-APR-2010	05:56:23;	Bright	;	40.5;	111;	8Eta	Boo	;	2.68;	6000;	occ;	81;	0;	42673
14;	2470.9;	29-APR-2010	06:00:15;	Bright	;	49.0;	83;			;	2.38;	11000;	occ;	98;	0;	42673
15;	2649.6;	29-APR-2010	06:03:14;	Bright	;	41.5;	180;	27Gam	Boo	;	3.04;	8000;	occ;	83;	0;	42673
16;	2777.3;	29-APR-2010	06:05:22;	Bright	;	38.0;	39;	85Eta	UMa	;	1.85;	24000;	occ;	76;	0;	42673
17;	2854.4;	29-APR-2010	06:06:39;	Bright	;	37.0;	55;	79Zet	UMa	;	2.06;	10200;	occ;	74;	0;	42673
18;	3225.1;	29-APR-2010	06:12:50;	Bright	;	37.5;	60;	7Bet	UMi	;	2.08;	3950;	occ;	75;	0;	42673

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1;	855.5;	29-APR-2010	20:38:44;	Dark	;	57.5;	25;	35Lam	Sco	;	1.62;	28000;	occ;	115;	43;	42682
2;	1025.9;	29-APR-2010	20:41:34;	Dark	;	62.0;	75;	26Eps	Sco	;	2.29;	4250;	occ;	124;	0;	42682
3;	1255.3;	29-APR-2010	20:45:23;	Dark	;	81.0;	16;	21Alp	Sco	;	1.02;	3000;	occ;	162;	0;	42682
4;	1394.3;	29-APR-2010	20:47:42;	Dark	;	61.5;	80;	7Del	Sco	;	2.32;	30000;	occ;	123;	0;	42682
5;	1588.2;	29-APR-2010	20:50:56;	Bright	;	48.0;	122;	9Alp2	Lib	;	2.75;	9700;	occ;	96;	0;	42682
6;	1729.4;	29-APR-2010	20:53:17;	Bright	;	49.5;	104;	27Bet	Lib	;	2.61;	13100;	occ;	99;	0;	42682
7;	2236.8;	29-APR-2010	21:01:45;	Bright	;	38.0;	111;	8Eta	Boo	;	2.68;	6000;	occ;	76;	0;	42682
8;	2465.8;	29-APR-2010	21:05:34;	Bright	;	48.5;	83;			;	2.38;	11000;	occ;	97;	0;	42682
9;	2644.9;	29-APR-2010	21:08:33;	Bright	;	43.0;	180;	27Gam	Boo	;	3.04;	8000;	occ;	86;	0;	42682
10;	2774.6;	29-APR-2010	21:10:43;	Bright	;	40.0;	39;	85Eta	UMa	;	1.85;	24000;	occ;	80;	0;	42682
11;	3222.1;	29-APR-2010	21:18:10;	Bright	;	44.5;	119;	14Eta	Dra	;	2.73;	4700;	occ;	89;	0;	42682
12;	3833.5;	29-APR-2010	21:28:22;	Bright	;	42.0;	89;	5Alp	Cep	;	2.45;	8000;	occ;	84;	0;	42682
13;	4146.5;	29-APR-2010	21:33:34;	Bright	;	60.5;	19;	50Alp	Cyg	;	1.25;	10500;	occ;	121;	0;	42682
14;	4505.5;	29-APR-2010	21:39:34;	Bright	;	43.5;	164;	44Eta	Peg	;	2.95;	5400;	occ;	87;	0;	42682

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15; 4768.0; 29-APR-2010 21:43:56; Dark ; 44.5; 90; 54Alp Peg ; 2.49; 11000;occ; 89; 0;42682
16; 5017.3; 29-APR-2010 21:48:05; Dark ; 65.5; 61; 8Eps Peg ; 2.10; 3900;occ; 131; 0;42682
17; 5163.7; 29-APR-2010 21:50:32; Dark ; 53.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 107; 0;42682
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3; 624.6; 29-APR-2010 22:15:29; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;42683
4; 731.2; 29-APR-2010 22:17:15; Dark ; 55.0; 40; The Sco ; 1.86; 7100;occ; 110; 0;42683
5; 834.7; 29-APR-2010 22:18:59; Dark ; 61.5; 25; 35Lam Sco ; 1.62; 28000;occ; 123; 0;42683
6; 1026.6; 29-APR-2010 22:22:11; Dark ; 58.0; 75; 26Eps Sco ; 2.29; 4250;occ; 116; 0;42683
7; 1256.0; 29-APR-2010 22:26:00; Dark ; 77.0; 16; 21Alp Sco ; 1.02; 3000;occ; 154; 0;42683
8; 1394.7; 29-APR-2010 22:28:19; Dark ; 61.0; 80; 7Del Sco ; 2.32; 30000;occ; 122; 0;42683
9; 1588.3; 29-APR-2010 22:31:32; Bright; 47.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 94; 0;42683
10; 1729.7; 29-APR-2010 22:33:54; Bright; 48.5; 104; 27Bet Lib ; 2.61; 13100;occ; 97; 0;42683
11; 2236.5; 29-APR-2010 22:42:20; Bright; 39.0; 111; 8Eta Boo ; 2.68; 6000;occ; 78; 0;42683
12; 2465.4; 29-APR-2010 22:46:09; Bright; 44.0; 83; ; 2.38; 11000;occ; 88; 0;42683
13; 2644.7; 29-APR-2010 22:49:09; Bright; 40.5; 180; 27Gam Boo ; 3.04; 8000;occ; 81; 0;42683
14; 2774.7; 29-APR-2010 22:51:19; Bright; 40.5; 39; 85Eta UMa ; 1.85; 24000;occ; 81; 0;42683
15; 3221.6; 29-APR-2010 22:58:45; Bright; 46.0; 119; 14Eta Dra ; 2.73; 4700;occ; 92; 0;42683
16; 3833.4; 29-APR-2010 23:08:57; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;42683
17; 4146.2; 29-APR-2010 23:14:10; Bright; 59.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 118; 0;42683
18; 4505.5; 29-APR-2010 23:20:09; Bright; 47.0; 164; 44Eta Peg ; 2.95; 5400;occ; 94; 0;42683
19; 4768.3; 29-APR-2010 23:24:32; Dark ; 43.0; 90; 54Alp Peg ; 2.49; 11000;occ; 86; 0;42683
20; 5017.8; 29-APR-2010 23:28:42; Dark ; 65.5; 61; 8Eps Peg ; 2.10; 3900;occ; 131; 0;42683
21; 5164.5; 29-APR-2010 23:31:08; Dark ; 55.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 110; 0;42683
22; 5380.2; 29-APR-2010 23:34:44; Dark ; 53.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 106; 0;42683
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3; -1270.3; 29-APR-2010 06:38:30; Dark ; 44.0; 90; 54Alp Peg ; 2.49; 11000;occ; 88; 0;42673
4; -878.8; 29-APR-2010 06:45:02; Dark ; 51.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 103; 0;42673
5; -544.5; 29-APR-2010 06:50:36; Dark ; 50.5; 142; 49Del Cap ; 2.85; 8900;occ; 101; 0;42673
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8; 163.6; 29-APR-2010 07:02:24; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;42674
9; 618.8; 29-APR-2010 07:09:59; Dark ; 45.0; 141; Bet Ara ; 2.84; 4600;occ; 90; 0;42674
10; 723.0; 29-APR-2010 07:11:43; Dark ; 58.5; 40; The Sco ; 1.86; 7100;occ; 117; 0;42674
11; 1121.7; 29-APR-2010 07:18:22; Dark ; 41.0; 81; Eta Cen ; 2.36; 28000;occ; 82; 0;42674
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4; 2777.1; 29-APR-2010 07:45:58; Bright; 39.5; 39; 85Eta UMa ; 1.85; 24000;occ; 79; 0;42674
5; 2854.2; 29-APR-2010 07:47:15; Bright; 39.0; 55; 79Zet UMa ; 2.06; 10200;occ; 78; 0;42674
6; 3224.7; 29-APR-2010 07:53:25; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;42674
7; 3836.2; 29-APR-2010 08:03:37; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;42674
8; 4504.1; 29-APR-2010 08:14:45; Bright; 44.5; 164; 44Eta Peg ; 2.95; 5400;occ; 89; 0;42674
9; 4766.0; 29-APR-2010 08:19:07; Dark ; 45.0; 90; 54Alp Peg ; 2.49; 11000;occ; 90; 0;42674
10; 5157.7; 29-APR-2010 08:25:38; Dark ; 55.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 111; 0;42674
11; 5492.0; 29-APR-2010 08:31:13; Dark ; 51.0; 142; 49Del Cap ; 2.85; 8900;occ; 102; 0;42674
12; 5652.9; 29-APR-2010 08:33:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42674
13; 5778.1; 29-APR-2010 08:35:59; Dark ; 40.5; 172; Gam Gru ; 3.00; 13100;occ; 81; 0;42674
14; 6200.3; 29-APR-2010 08:43:01; Dark ; 38.5; 45; Alp Pav ; 1.94; 26000;occ; 77; 0;42675
15; 6655.4; 29-APR-2010 08:50:36; Dark ; 51.5; 141; Bet Ara ; 2.84; 4600;occ; 103; 0;42675
16; 6759.9; 29-APR-2010 08:52:20; Dark ; 49.5; 40; The Sco ; 1.86; 7100;occ; 99; 0;42675
17; 7158.2; 29-APR-2010 08:58:59; Dark ; 38.5; 81; Eta Cen ; 2.36; 28000;occ; 77; 0;42675
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3; 2648.5; 29-APR-2010 09:24:25; Bright; 43.5; 180; 27Gam Boo ; 3.04; 8000;occ; 87; 0;42675
4; 2776.8; 29-APR-2010 09:26:33; Bright; 40.0; 39; 85Eta UMa ; 1.85; 24000;occ; 80; 0;42675
5; 2854.0; 29-APR-2010 09:27:50; Bright; 37.0; 55; 79Zet UMa ; 2.06; 10200;occ; 74; 0;42675
6; 3224.4; 29-APR-2010 09:34:01; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;42675
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8; 4504.5; 29-APR-2010 09:55:21; Bright; 47.0; 164; 44Eta Peg ; 2.95; 5400;occ; 94; 0;42675
9; 4766.3; 29-APR-2010 09:59:43; Dark ; 43.0; 90; 54Alp Peg ; 2.49; 11000;occ; 86; 0;42675

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13; 5778.6; 29-APR-2010 10:16:35; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;42675
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15; 6656.0; 29-APR-2010 10:31:12; Dark ; 43.0; 141; Bet Ara ; 2.84; 4600;occ; 86; 0;42676
16; 6760.7; 29-APR-2010 10:32:57; Dark ; 56.5; 40; The Sco ; 1.86; 7100;occ; 113; 0;42676
17; 7158.1; 29-APR-2010 10:39:34; Dark ; 42.5; 81; Eta Cen ; 2.36; 28000;occ; 85; 0;42676
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