

# GOMOS Daily Report 18-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	22APR2010 04:56:42
Data source version	GOMOS/5.00L04
Start time of products	18APR2010 00:00:51
Stop time of products	18APR2010 23:55:34
Store outputs in DB	Yes
Nb of level 1b prods	129
Nb of prods with errors	0

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

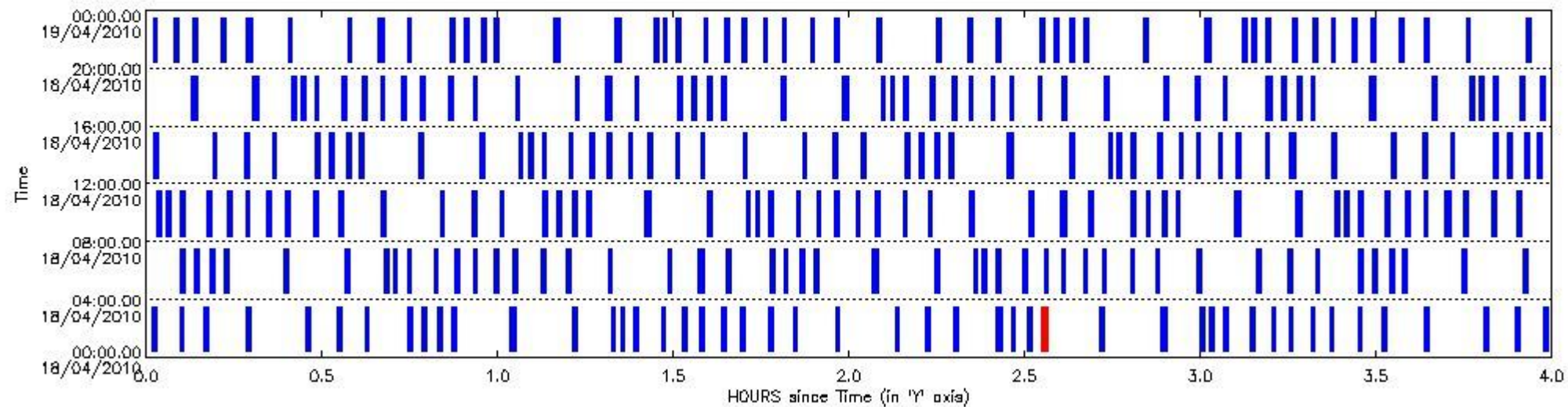
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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)

UTC start time	Star name	Star ID	Orbit
18-APR-2010 02:32:53	49DelCap	142	42513

### 2.4 Summary of processed GOM\_TRA\_1P products

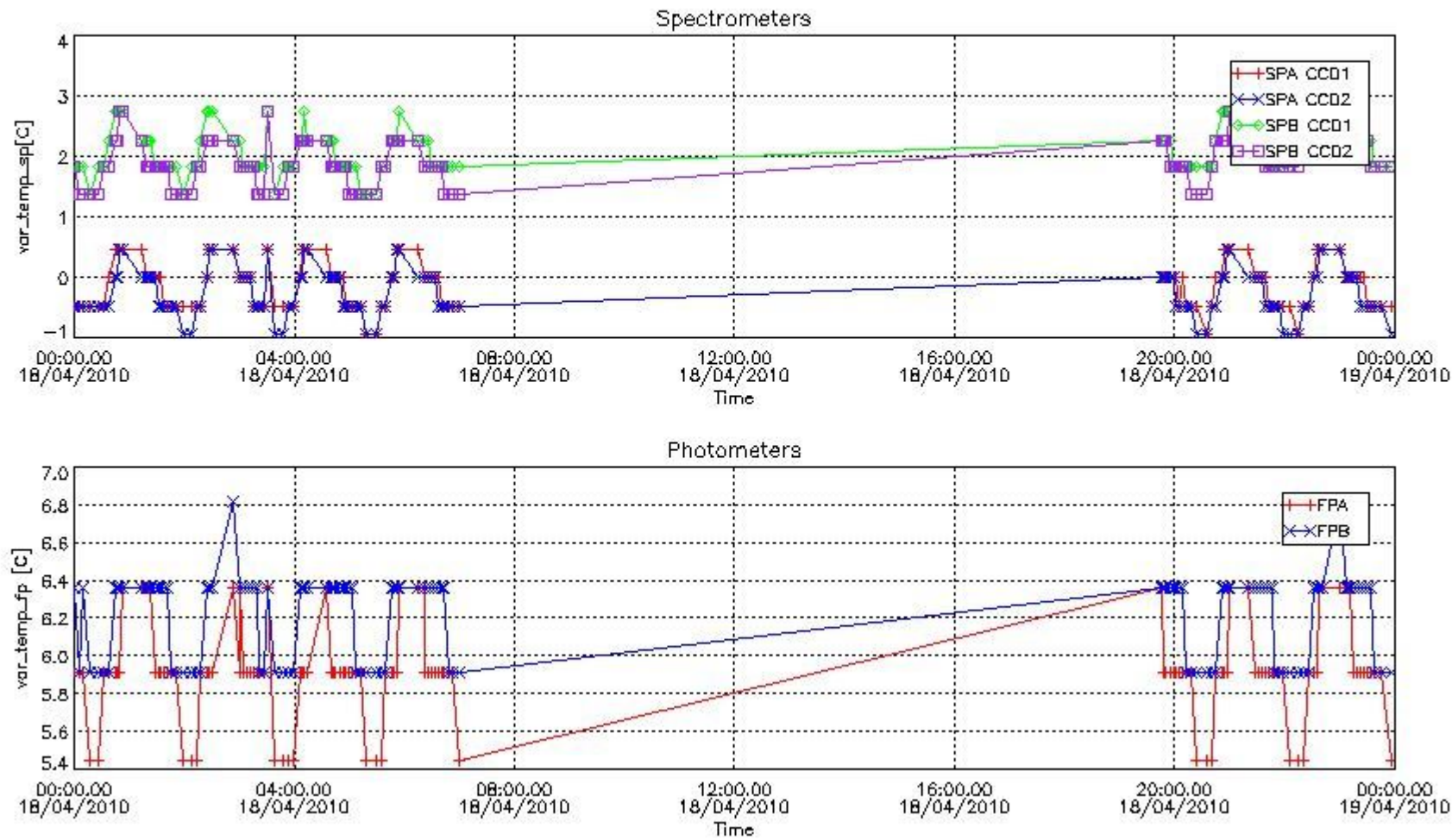
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100418_000051_000000482088_00374_42512_4809.N1	18-APR-2010 00:00:51	Bright	47.500	111	8Eta Boo	2.6800	6000.0	95	42512	No
2	GOM_TRA_1PNPDE20100418_000542_000000392088_00374_42512_4810.N1	18-APR-2010 00:05:42	Bright	38.500	152	12Alp2CVn	2.8900	11000.	77	42512	No
3	GOM_TRA_1PNPDE20100418_000955_000000432088_00374_42512_4811.N1	18-APR-2010 00:09:55	Bright	43.000	39	85Eta UMa	1.8540	24000.	86	42512	No
4	GOM_TRA_1PNPDE20100418_001705_000000402088_00374_42512_4812.N1	18-APR-2010 00:17:05	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	42512	No
5	GOM_TRA_1PNPDE20100418_002714_000000402088_00374_42512_4813.N1	18-APR-2010 00:27:14	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	42512	No
6	GOM_TRA_1PNPDE20100418_003230_000000502088_00374_42512_4814.N1	18-APR-2010 00:32:30	Bright	50.000	19	50Alp Cyg	1.2460	10500.	100	42512	No
7	GOM_TRA_1PNPDE20100418_003720_000000382088_00374_42512_4815.N1	18-APR-2010 00:37:20	Bright	38.000	164	44Eta Peg	2.9480	5400.0	76	42512	No
8	GOM_TRA_1PNPDE20100418_004434_000000532088_00374_42512_4816.N1	18-APR-2010 00:44:34	Dark	53.000	61	8Eps Peg	2.1000	3900.0	106	42512	No
9	GOM_TRA_1PNPDE20100418_004702_000000462088_00374_42512_4817.N1	18-APR-2010 00:47:02	Dark	45.500	162	34Alp Aqr	2.9440	5350.0	91	42512	No
10	GOM_TRA_1PNPDE20100418_004947_000000502088_00374_42512_4818.N1	18-APR-2010 00:49:47	Dark	50.000	154	22Bet Aqr	2.8990	5700.0	100	42512	No

11	GOM_TRA_1PNPDE20100418_005207_000000442088_00374_42512_4843.N1	18-APR-2010 00:52:07	Dark	43.500	142	49Del Cap	2.8500	8900.0	87	42512	No
12	GOM_TRA_1PNPDE20100418_011239_000000612088_00375_42513_4844.N1	18-APR-2010 01:12:39	Dark	60.500	40	The Sco	1.8590	7100.0	121	42513	No
13	GOM_TRA_1PNPDE20100418_011923_000000442088_00375_42513_4845.N1	18-APR-2010 01:19:23	Straylight	43.500	78	Alp Lup	2.3040	28000.	87	42513	No
14	GOM_TRA_1PNPDE20100418_012058_000000442088_00375_42513_4846.N1	18-APR-2010 01:20:58	Straylight	44.000	81	Eta Cen	2.3560	28000.	88	42513	No
15	GOM_TRA_1PNPDE20100418_012318_000000492088_00375_42513_4847.N1	18-APR-2010 01:23:18	Straylight	48.500	54	5The Cen	2.0550	4500.0	97	42513	No
16	GOM_TRA_1PNPDE20100418_012756_000000442088_00375_42513_4848.N1	18-APR-2010 01:27:56	Tw_i_and_stray	44.000	169	46Gam Hya	2.9910	4700.0	88	42513	No
17	GOM_TRA_1PNPDE20100418_013130_000000462088_00375_42513_4849.N1	18-APR-2010 01:31:30	Bright	46.000	15	67Alp Vir	0.97600	28000.	92	42513	No
18	GOM_TRA_1PNPDE20100418_013433_000000382088_00375_42513_4850.N1	18-APR-2010 01:34:33	Bright	37.500	121	29Gam Vir	2.7400	7200.0	75	42513	No
19	GOM_TRA_1PNPDE20100418_013815_000000392088_00375_42513_4851.N1	18-APR-2010 01:38:15	Bright	39.000	138	47Eps Vir	2.8280	4700.0	78	42513	No
20	GOM_TRA_1PNPDE20100418_014127_000000482088_00375_42513_4852.N1	18-APR-2010 01:41:27	Bright	47.500	111	8Eta Boo	2.6800	6000.0	95	42513	No
21	GOM_TRA_1PNPDE20100418_014618_000000382088_00375_42513_4853.N1	18-APR-2010 01:46:18	Bright	38.000	152	12Alp2CVn	2.8900	11000.	76	42513	No
22	GOM_TRA_1PNPDE20100418_015030_000000402088_00375_42513_4854.N1	18-APR-2010 01:50:30	Bright	39.500	39	85Eta UMa	1.8540	24000.	79	42513	No
23	GOM_TRA_1PNPDE20100418_015741_000000412088_00375_42513_4855.N1	18-APR-2010 01:57:41	Bright	41.000	60	7Bet UMi	2.0810	3950.0	82	42513	No
24	GOM_TRA_1PNPDE20100418_020750_000000402088_00375_42513_4856.N1	18-APR-2010 02:07:50	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	42513	No
25	GOM_TRA_1PNPDE20100418_021306_000000502088_00375_42513_4857.N1	18-APR-2010 02:13:06	Bright	50.000	19	50Alp Cyg	1.2460	10500.	100	42513	No
26	GOM_TRA_1PNPDE20100418_021756_000000392088_00375_42513_4858.N1	18-APR-2010 02:17:56	Bright	38.500	164	44Eta Peg	2.9480	5400.0	77	42513	No
27	GOM_TRA_1PNPDE20100418_022511_000000542088_00375_42513_4859.N1	18-APR-2010 02:25:11	Dark	53.500	61	8Eps Peg	2.1000	3900.0	107	42513	No
28	GOM_TRA_1PNPDE20100418_022739_000000472088_00375_42513_4860.N1	18-APR-2010 02:27:39	Dark	47.000	162	34Alp Aqr	2.9440	5350.0	94	42513	No
29	GOM_TRA_1PNPDE20100418_023023_000000482088_00375_42513_4861.N1	18-APR-2010 02:30:23	Dark	47.500	154	22Bet Aqr	2.8990	5700.0	95	42513	No
30	GOM_TRA_1PNPDE20100418_025316_000000622088_00376_42514_4862.N1	18-APR-2010 02:53:16	Dark	61.500	40	The Sco	1.8590	7100.0	123	42514	No
31	GOM_TRA_1PNPDE20100418_025959_000000442088_00376_42514_4863.N1	18-APR-2010 02:59:59	Straylight	44.000	78	Alp Lup	2.3040	28000.	88	42514	No
32	GOM_TRA_1PNPDE20100418_030135_000000462088_00376_42514_4864.N1	18-APR-2010 03:01:35	Straylight	45.500	81	Eta Cen	2.3560	28000.	91	42514	No
33	GOM_TRA_1PNPDE20100418_030354_000000472088_00376_42514_4865.N1	18-APR-2010 03:03:54	Straylight	47.000	54	5The Cen	2.0550	4500.0	94	42514	No
34	GOM_TRA_1PNPDE20100418_030832_000000442088_00376_42514_4866.N1	18-APR-2010 03:08:32	Tw_i_and_stray	43.500	169	46Gam Hya	2.9910	4700.0	87	42514	No
35	GOM_TRA_1PNPDE20100418_031207_000000432088_00376_42514_4867.N1	18-APR-2010 03:12:07	Bright	42.500	15	67Alp Vir	0.97600	28000.	85	42514	No
36	GOM_TRA_1PNPDE20100418_031509_000000382088_00376_42514_4868.N1	18-APR-2010 03:15:09	Bright	38.000	121	29Gam Vir	2.7400	7200.0	76	42514	No
37	GOM_TRA_1PNPDE20100418_031851_000000392088_00376_42514_4869.N1	18-APR-2010 03:18:51	Bright	38.500	138	47Eps Vir	2.8280	4700.0	77	42514	No
38	GOM_TRA_1PNPDE20100418_032202_000000462088_00376_42514_4870.N1	18-APR-2010 03:22:02	Bright	46.000	111	8Eta Boo	2.6800	6000.0	92	42514	No
39	GOM_TRA_1PNPDE20100418_032653_000000392088_00376_42514_4871.N1	18-APR-2010 03:26:53	Bright	38.500	152	12Alp2CVn	2.8900	11000.	77	42514	No
40	GOM_TRA_1PNPDE20100418_033106_000000422088_00376_42514_4863.N1	18-APR-2010 03:31:06	Bright	42.000	39	85Eta UMa	1.8540	24000.	84	42514	No
41	GOM_TRA_1PNPDE20100418_033816_000000402088_00376_42514_4864.N1	18-APR-2010 03:38:16	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	42514	No
42	GOM_TRA_1PNPDE20100418_034826_000000422088_00376_42514_4865.N1	18-APR-2010 03:48:26	Bright	41.500	89	5Alp Cep	2.4510	8000.0	83	42514	No
43	GOM_TRA_1PNPDE20100418_035342_000000512088_00376_42514_4866.N1	18-APR-2010 03:53:42	Bright	51.000	19	50Alp Cyg	1.2460	10500.	102	42514	No
44	GOM_TRA_1PNPDE20100418_035832_000000542088_00376_42514_4867.N1	18-APR-2010 03:58:32	Bright	54.000	164	44Eta Peg	2.9480	5400.0	108	42514	No
45	GOM_TRA_1PNPDE20100418_040547_000000522088_00376_42514_4868.N1	18-APR-2010 04:05:47	Dark	51.500	61	8Eps Peg	2.1000	3900.0	103	42514	No
46	GOM_TRA_1PNPDE20100418_040815_000000452088_00376_42514_4869.N1	18-APR-2010 04:08:15	Dark	44.500	162	34Alp Aqr	2.9440	5350.0	89	42514	No
47	GOM_TRA_1PNPDE20100418_041100_000000472088_00376_42514_4870.N1	18-APR-2010 04:11:00	Dark	46.500	154	22Bet Aqr	2.8990	5700.0	93	42514	No
48	GOM_TRA_1PNPDE20100418_041321_000000432088_00376_42514_4871.N1	18-APR-2010 04:13:21	Dark	43.000	142	49Del Cap	2.8500	8900.0	86	42514	No
49	GOM_TRA_1PNPDE20100418_043353_000000542088_00377_42515_4872.N1	18-APR-2010 04:33:53	Dark	53.500	40	The Sco	1.8590	7100.0	107	42515	No
50	GOM_TRA_1PNPDE20100418_044036_000000432088_00377_42515_4873.N1	18-APR-2010 04:40:36	Straylight	43.000	78	Alp Lup	2.3040	28000.	86	42515	No
51	GOM_TRA_1PNPDE20100418_044211_000000422088_00377_42515_4874.N1	18-APR-2010 04:42:11	Straylight	41.500	81	Eta Cen	2.3560	28000.	83	42515	No
52	GOM_TRA_1PNPDE20100418_044430_000000452088_00377_42515_4875.N1	18-APR-2010 04:44:30	Straylight	44.500	54	5The Cen	2.0550	4500.0	89	42515	No
53	GOM_TRA_1PNPDE20100418_044908_000000432088_00377_42515_4876.N1	18-APR-2010 04:49:08	Tw_i_and_stray	42.500	169	46Gam Hya	2.9910	4700.0	85	42515	No
54	GOM_TRA_1PNPDE20100418_045242_000000492088_00377_42515_4877.N1	18-APR-2010 04:52:42	Bright	48.500	15	67Alp Vir	0.97600	28000.	97	42515	No
55	GOM_TRA_1PNPDE20100418_045545_000000392088_00377_42515_4878.N1	18-APR-2010 04:55:45	Bright	38.500	121	29Gam Vir	2.7400	7200.0	77	42515	No
56	GOM_TRA_1PNPDE20100418_045927_000000392088_00377_42515_4879.N1	18-APR-2010 04:59:27	Bright	39.000	138	47Eps Vir	2.8280	4700.0	78	42515	No
57	GOM_TRA_1PNPDE20100418_050238_000000462088_00377_42515_4880.N1	18-APR-2010 05:02:38	Bright	46.000	111	8Eta Boo	2.6800	6000.0	92	42515	No
58	GOM_TRA_1PNPDE20100418_050729_000000392088_00377_42515_4881.N1	18-APR-2010 05:07:29	Bright	38.500	152	12Alp2CVn	2.8900	11000.	77	42515	No
59	GOM_TRA_1PNPDE20100418_051141_000000432088_00377_42515_4882.N1	18-APR-2010 05:11:41	Bright	42.500	39	85Eta UMa	1.8540	24000.	85	42515	No
60	GOM_TRA_1PNPDE20100418_051852_000000402088_00377_42515_4883.N1	18-APR-2010 05:18:52	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	42515	No
61	GOM_TRA_1PNPDE20100418_052901_000000412088_00377_42515_4893.N1	18-APR-2010 05:29:01	Bright	40.500	89	5Alp Cep	2.4510	8000.0	81	42515	No
62	GOM_TRA_1PNPDE20100418_053418_000000512088_00377_42515_4894.N1	18-APR-2010 05:34:18	Bright	50.500	19	50Alp Cyg	1.2460	10500.	101	42515	No
63	GOM_TRA_1PNPDE20100418_053908_000000392088_00377_42515_4895.N1	18-APR-2010 05:39:08	Bright	38.500	164	44Eta Peg	2.9480	5400.0	77	42515	No
64	GOM_TRA_1PNPDE20100418_054624_000000502088_00377_42515_4896.N1	18-APR-2010 05:46:24	Dark	50.000	61	8Eps Peg	2.1000	3900.0	100	42515	No
65	GOM_TRA_1PNPDE20100418_054851_000000442088_00377_42515_4897.N1	18-APR-2010 05:48:51	Dark	43.500	162	34Alp Aqr	2.9440	5350.0	87	42515	No
66	GOM_TRA_1PNPDE20100418_055137_000000472088_00377_42515_4898.N1	18-APR-2010 05:51:37	Dark	46.500	154	22Bet Aqr	2.8990	5700.0	93	42515	No
67	GOM_TRA_1PNPDE20100418_055357_000000452088_00377_42515_4899.N1	18-APR-2010 05:53:57	Dark	45.000	142	49Del Cap	2.8500	8900.0	90	42515	No
68	GOM_TRA_1PNPDE20100418_061430_000000572088_00378_42516_4900.N1	18-APR-2010 06:14:30	Dark	56.500	40	The Sco	1.8590	7100.0	113	42516	No
69	GOM_TRA_1PNPDE20100418_062112_000000422088_00378_42516_4901.N1	18-APR-2010 06:21:12	Straylight	42.000	78	Alp Lup	2.3040	28000.	84	42516	No



70	GOM_TRA_1PNPDE20100418_062247_000000442088_00378_42516_4902.N1	18-APR-2010 06:22:47	Straylight	44.000	81	Eta Cen	2.3560	28000.	88	42516	No
71	GOM_TRA_1PNPDE20100418_062507_000000472088_00378_42516_4903.N1	18-APR-2010 06:25:07	Straylight	47.000	54	5The Cen	2.0550	4500.0	94	42516	No
72	GOM_TRA_1PNPDE20100418_062944_000000452088_00378_42516_4904.N1	18-APR-2010 06:29:44	Twilight_stray	44.500	169	46Gam Hya	2.9910	4700.0	89	42516	No
73	GOM_TRA_1PNPDE20100418_063318_000000432088_00378_42516_4905.N1	18-APR-2010 06:33:18	Bright	42.500	15	67Alp Vir	0.97600	28000.	85	42516	No
74	GOM_TRA_1PNPDE20100418_063621_000000392088_00378_42516_4906.N1	18-APR-2010 06:36:21	Bright	39.000	121	29Gam Vir	2.7400	7200.0	78	42516	No
75	GOM_TRA_1PNPDE20100418_064002_000000412088_00378_42516_4907.N1	18-APR-2010 06:40:02	Bright	41.000	138	47Eps Vir	2.8280	4700.0	82	42516	No
76	GOM_TRA_1PNPDE20100418_064314_000000452088_00378_42516_4908.N1	18-APR-2010 06:43:14	Bright	44.500	111	8Eta Boo	2.6800	6000.0	89	42516	No
77	GOM_TRA_1PNPDE20100418_064805_000000372088_00378_42516_4909.N1	18-APR-2010 06:48:05	Bright	36.500	152	12Alp2CVn	2.8900	11000.	73	42516	No
78	GOM_TRA_1PNPDE20100418_065217_000000402088_00378_42516_4910.N1	18-APR-2010 06:52:17	Bright	40.000	39	85Eta UMa	1.8540	24000.	80	42516	No
79	GOM_TRA_1PNPDE20100418_065928_000000392088_00378_42516_4911.N1	18-APR-2010 06:59:28	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	42516	No
80	GOM_TRA_1PNPDE20100418_194603_000000452088_00386_42524_4999.N1	18-APR-2010 19:46:03	Straylight	44.500	78	Alp Lup	2.3040	28000.	89	42524	No
81	GOM_TRA_1PNPDE20100418_194738_000000442088_00386_42524_5000.N1	18-APR-2010 19:47:38	Straylight	43.500	81	Eta Cen	2.3560	28000.	87	42524	No
82	GOM_TRA_1PNPDE20100418_194957_000000462088_00386_42524_5001.N1	18-APR-2010 19:49:57	Straylight	45.500	54	5The Cen	2.0550	4500.0	91	42524	No
83	GOM_TRA_1PNPDE20100418_195433_000000442088_00386_42524_5002.N1	18-APR-2010 19:54:33	Twilight_stray	43.500	169	46Gam Hya	2.9910	4700.0	87	42524	No
84	GOM_TRA_1PNPDE20100418_195807_000000432088_00386_42524_5003.N1	18-APR-2010 19:58:07	Bright	43.000	15	67Alp Vir	0.97600	28000.	86	42524	No
85	GOM_TRA_1PNPDE20100418_200109_000000372088_00386_42524_5004.N1	18-APR-2010 20:01:09	Bright	36.500	121	29Gam Vir	2.7400	7200.0	73	42524	No
86	GOM_TRA_1PNPDE20100418_200449_000000392088_00386_42524_5005.N1	18-APR-2010 20:04:49	Bright	38.500	138	47Eps Vir	2.8280	4700.0	77	42524	No
87	GOM_TRA_1PNPDE20100418_200757_000000452088_00386_42524_5006.N1	18-APR-2010 20:07:57	Bright	44.500	111	8Eta Boo	2.6800	6000.0	89	42524	No
88	GOM_TRA_1PNPDE20100418_201250_000000402088_00386_42524_5007.N1	18-APR-2010 20:12:50	Bright	39.500	152	12Alp2CVn	2.8900	11000.	79	42524	No
89	GOM_TRA_1PNPDE20100418_201701_000000602088_00386_42524_5008.N1	18-APR-2010 20:17:01	Bright	60.000	39	85Eta UMa	1.8540	24000.	120	42524	No
90	GOM_TRA_1PNPDE20100418_202413_000000382088_00386_42524_5009.N1	18-APR-2010 20:24:13	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	42524	No
91	GOM_TRA_1PNPDE20100418_203423_000000382088_00386_42524_5010.N1	18-APR-2010 20:34:23	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	42524	No
92	GOM_TRA_1PNPDE20100418_203939_000000532088_00386_42524_5011.N1	18-APR-2010 20:39:39	Bright	52.500	19	50Alp Cyg	1.2460	10500.	105	42524	No
93	GOM_TRA_1PNPDE20100418_204433_000000372088_00386_42524_5012.N1	18-APR-2010 20:44:33	Bright	36.500	164	44Eta Peg	2.9480	5400.0	73	42524	No
94	GOM_TRA_1PNPDE20100418_205151_000000552088_00386_42524_5019.N1	18-APR-2010 20:51:51	Dark	54.500	61	8Eps Peg	2.1000	3900.0	109	42524	No
95	GOM_TRA_1PNPDE20100418_205419_000000462088_00386_42524_5020.N1	18-APR-2010 20:54:19	Dark	45.500	162	34Alp Aqr	2.9440	5350.0	91	42524	No
96	GOM_TRA_1PNPDE20100418_205706_000000492088_00386_42524_5021.N1	18-APR-2010 20:57:06	Dark	49.000	154	22Bet Aqr	2.8990	5700.0	98	42524	No
97	GOM_TRA_1PNPDE20100418_205927_000000432088_00386_42524_5022.N1	18-APR-2010 20:59:27	Dark	43.000	142	49Del Cap	2.8500	8900.0	86	42524	No
98	GOM_TRA_1PNPDE20100418_212003_000000602088_00387_42525_5023.N1	18-APR-2010 21:20:03	Dark	60.000	40	The Sco	1.8590	7100.0	120	42525	No
99	GOM_TRA_1PNPDE20100418_212639_000000432088_00387_42525_5024.N1	18-APR-2010 21:26:39	Straylight	42.500	78	Alp Lup	2.3040	28000.	85	42525	No
100	GOM_TRA_1PNPDE20100418_212815_000000422088_00387_42525_5025.N1	18-APR-2010 21:28:15	Straylight	41.500	81	Eta Cen	2.3560	28000.	83	42525	No
101	GOM_TRA_1PNPDE20100418_213033_000000482088_00387_42525_5026.N1	18-APR-2010 21:30:33	Straylight	47.500	54	5The Cen	2.0550	4500.0	95	42525	No
102	GOM_TRA_1PNPDE20100418_213509_000000422088_00387_42525_5027.N1	18-APR-2010 21:35:09	Twilight_stray	42.000	169	46Gam Hya	2.9910	4700.0	84	42525	No
103	GOM_TRA_1PNPDE20100418_213842_000000462088_00387_42525_5028.N1	18-APR-2010 21:38:42	Bright	45.500	15	67Alp Vir	0.97600	28000.	91	42525	No
104	GOM_TRA_1PNPDE20100418_214145_000000392088_00387_42525_5029.N1	18-APR-2010 21:41:45	Bright	38.500	121	29Gam Vir	2.7400	7200.0	77	42525	No
105	GOM_TRA_1PNPDE20100418_214525_000000402088_00387_42525_5030.N1	18-APR-2010 21:45:25	Bright	39.500	138	47Eps Vir	2.8280	4700.0	79	42525	No
106	GOM_TRA_1PNPDE20100418_214833_000000452088_00387_42525_5031.N1	18-APR-2010 21:48:33	Bright	45.000	111	8Eta Boo	2.6800	6000.0	90	42525	No
107	GOM_TRA_1PNPDE20100418_215326_000000382088_00387_42525_5032.N1	18-APR-2010 21:53:26	Bright	37.500	152	12Alp2CVn	2.8900	11000.	75	42525	No
108	GOM_TRA_1PNPDE20100418_215736_000000422088_00387_42525_5033.N1	18-APR-2010 21:57:36	Bright	41.500	39	85Eta UMa	1.8540	24000.	83	42525	No
109	GOM_TRA_1PNPDE20100418_220448_000000362088_00387_42525_5034.N1	18-APR-2010 22:04:48	Bright	36.000	60	7Bet UMi	2.0810	3950.0	72	42525	No
110	GOM_TRA_1PNPDE20100418_221459_000000402088_00387_42525_5035.N1	18-APR-2010 22:14:59	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	42525	No
111	GOM_TRA_1PNPDE20100418_222015_000000522088_00387_42525_5036.N1	18-APR-2010 22:20:15	Bright	52.000	19	50Alp Cyg	1.2460	10500.	104	42525	No
112	GOM_TRA_1PNPDE20100418_222509_000000532088_00387_42525_5037.N1	18-APR-2010 22:25:09	Bright	52.500	164	44Eta Peg	2.9480	5400.0	105	42525	No
113	GOM_TRA_1PNPDE20100418_223228_000000552088_00387_42525_5038.N1	18-APR-2010 22:32:28	Dark	55.000	61	8Eps Peg	2.1000	3900.0	110	42525	No
114	GOM_TRA_1PNPDE20100418_223456_000000462088_00387_42525_5039.N1	18-APR-2010 22:34:56	Dark	46.000	162	34Alp Aqr	2.9440	5350.0	92	42525	No
115	GOM_TRA_1PNPDE20100418_223743_000000482088_00387_42525_5040.N1	18-APR-2010 22:37:43	Dark	47.500	154	22Bet Aqr	2.8990	5700.0	95	42525	No
116	GOM_TRA_1PNPDE20100418_224003_000000472088_00387_42525_5044.N1	18-APR-2010 22:40:03	Dark	47.000	142	49Del Cap	2.8500	8900.0	94	42525	No
117	GOM_TRA_1PNPDE20100418_230040_000000602088_00388_42526_5045.N1	18-APR-2010 23:00:40	Dark	60.000	40	The Sco	1.8590	7100.0	120	42526	No
118	GOM_TRA_1PNPDE20100418_230716_000000442088_00388_42526_5046.N1	18-APR-2010 23:07:16	Straylight	43.500	78	Alp Lup	2.3040	28000.	87	42526	No
119	GOM_TRA_1PNPDE20100418_230851_000000432088_00388_42526_5047.N1	18-APR-2010 23:08:51	Straylight	43.000	81	Eta Cen	2.3560	28000.	86	42526	No
120	GOM_TRA_1PNPDE20100418_231109_000000512088_00388_42526_5048.N1	18-APR-2010 23:11:09	Straylight	50.500	54	5The Cen	2.0550	4500.0	101	42526	No
121	GOM_TRA_1PNPDE20100418_231545_000000422088_00388_42526_5049.N1	18-APR-2010 23:15:45	Twilight_stray	42.000	169	46Gam Hya	2.9910	4700.0	84	42526	No
122	GOM_TRA_1PNPDE20100418_231918_000000462088_00388_42526_5050.N1	18-APR-2010 23:19:18	Bright	45.500	15	67Alp Vir	0.97600	28000.	91	42526	No
123	GOM_TRA_1PNPDE20100418_232221_000000392088_00388_42526_5051.N1	18-APR-2010 23:22:21	Bright	39.000	121	29Gam Vir	2.7400	7200.0	78	42526	No
124	GOM_TRA_1PNPDE20100418_232601_000000402088_00388_42526_5052.N1	18-APR-2010 23:26:01	Bright	39.500	138	47Eps Vir	2.8280	4700.0	79	42526	No
125	GOM_TRA_1PNPDE20100418_232908_000000452088_00388_42526_5053.N1	18-APR-2010 23:29:08	Bright	45.000	111	8Eta Boo	2.6800	6000.0	90	42526	No
126	GOM_TRA_1PNPDE20100418_233402_000000392088_00388_42526_5054.N1	18-APR-2010 23:34:02	Bright	39.000	152	12Alp2CVn	2.8900	11000.	78	42526	No
127	GOM_TRA_1PNPDE20100418_233812_000000432088_00388_42526_5055.N1	18-APR-2010 23:38:12	Bright	42.500	39	85Eta UMa	1.8540	24000.	85	42526	No
128	GOM_TRA_1PNPDE20100418_234524_000000412088_00388_42526_5056.N1	18-APR-2010 23:45:24	Bright	40.500	60	7Bet UMi	2.0810	3950.0	81	42526	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.

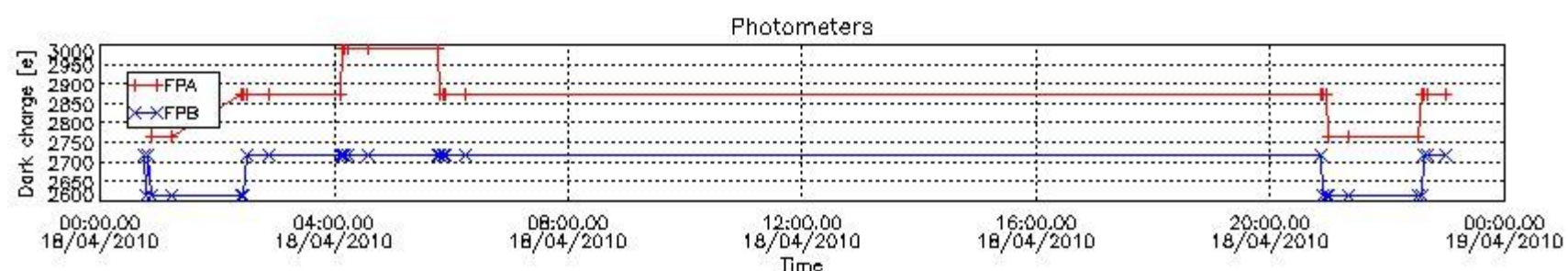
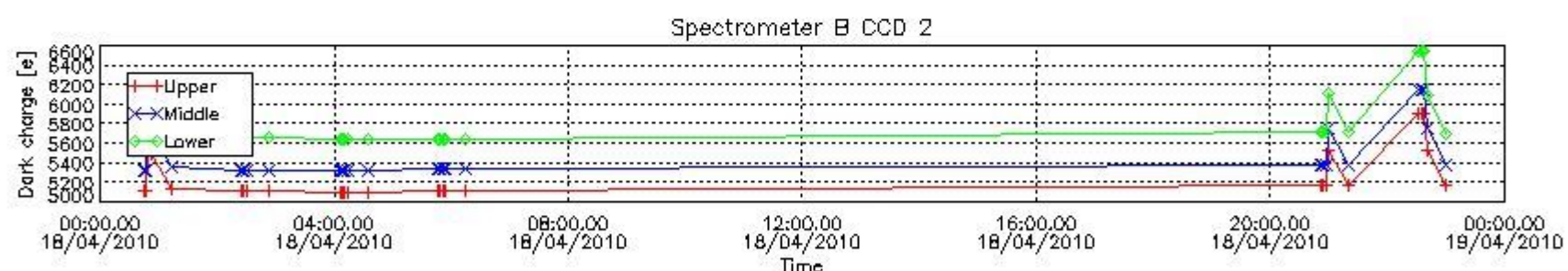
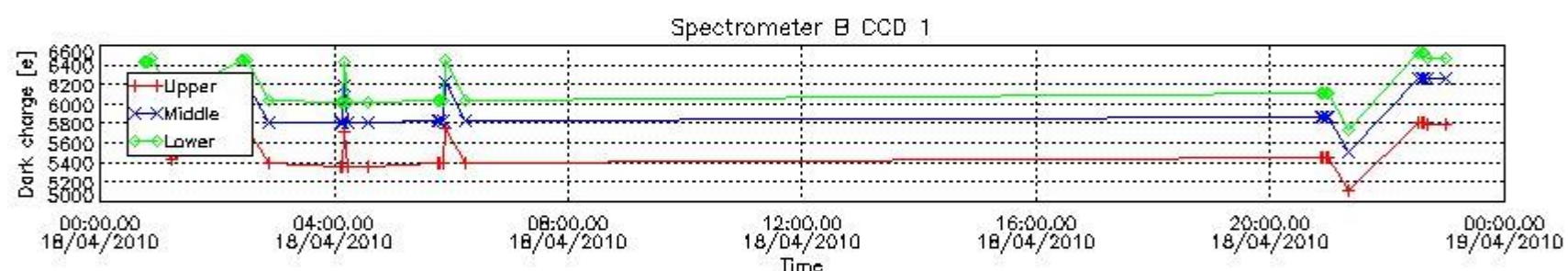
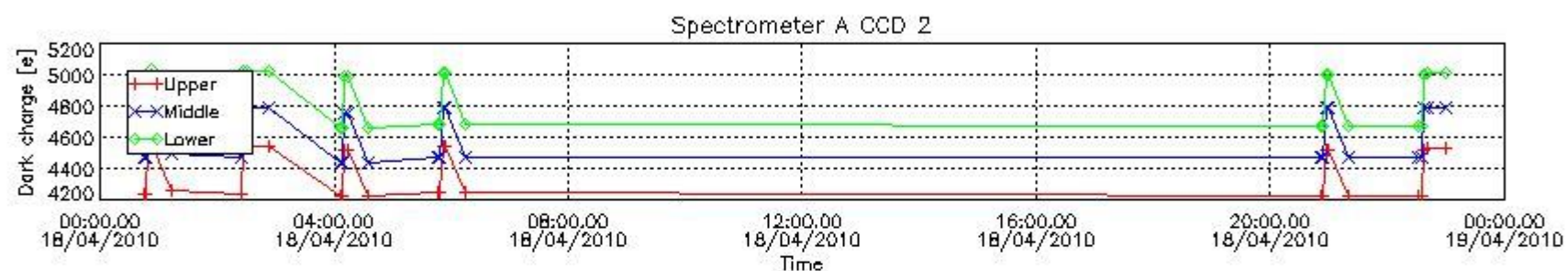
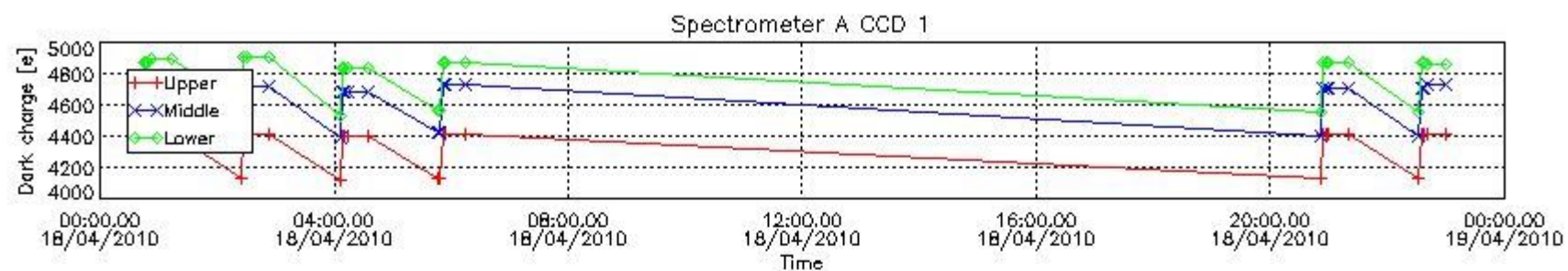
#### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20100418_194603_000000452088_00386_42524_4999.N1	DC map used
GOM_TRA_1PNPDE20100418_194738_000000442088_00386_42524_5000.N1	DC map used
GOM_TRA_1PNPDE20100418_194957_000000462088_00386_42524_5001.N1	DC map used
GOM_TRA_1PNPDE20100418_195433_000000442088_00386_42524_5002.N1	DC map used
GOM_TRA_1PNPDE20100418_195807_000000432088_00386_42524_5003.N1	DC map used
GOM_TRA_1PNPDE20100418_200109_000000372088_00386_42524_5004.N1	DC map used
GOM_TRA_1PNPDE20100418_200449_000000392088_00386_42524_5005.N1	DC map used
GOM_TRA_1PNPDE20100418_200757_000000452088_00386_42524_5006.N1	DC map used
GOM_TRA_1PNPDE20100418_201250_000000402088_00386_42524_5007.N1	DC map used



GOM_TRA_1PNPDE20100418_201701_000000602088_00386_42524_5008.N1	DC map used
GOM_TRA_1PNPDE20100418_202413_000000382088_00386_42524_5009.N1	DC map used
GOM_TRA_1PNPDE20100418_203423_000000382088_00386_42524_5010.N1	DC map used
GOM_TRA_1PNPDE20100418_203939_000000532088_00386_42524_5011.N1	DC map used
GOM_TRA_1PNPDE20100418_204433_000000372088_00386_42524_5012.N1	DC map used

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



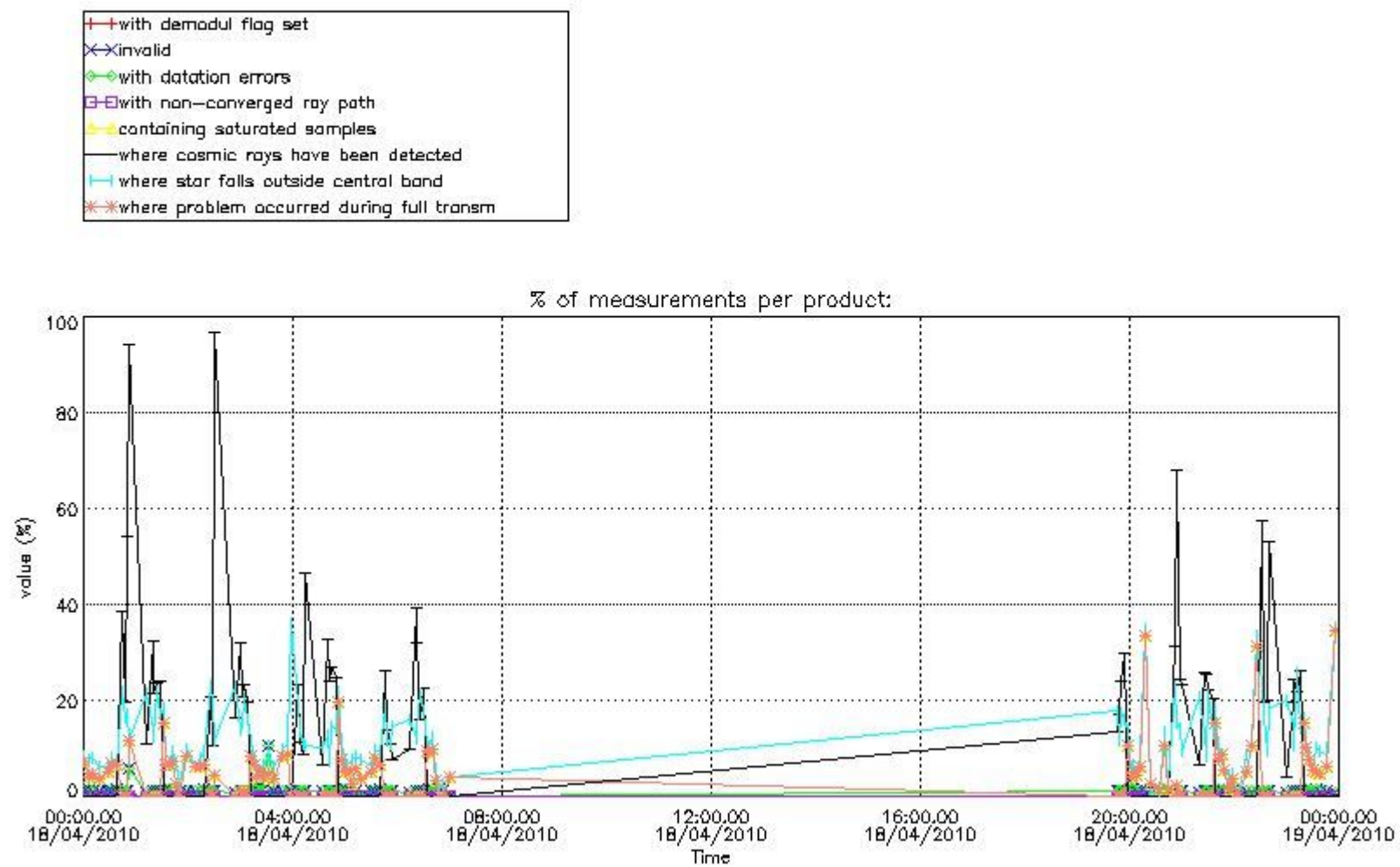
5. Demodulation flag and quality information monitoring

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:

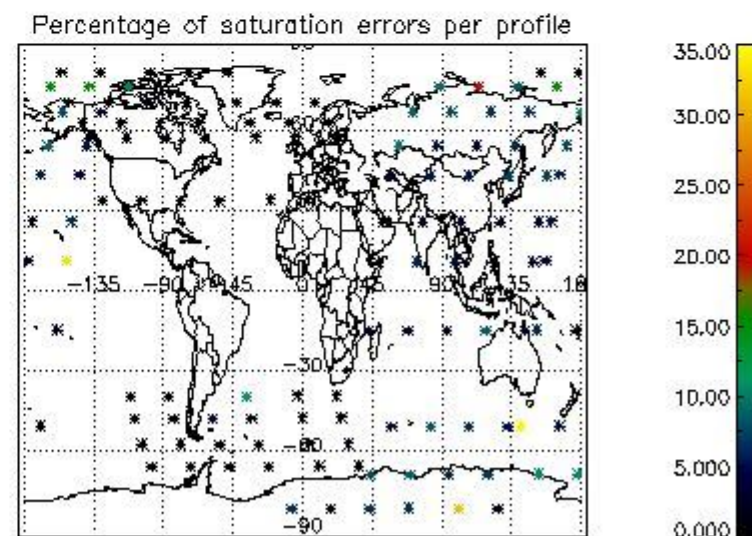
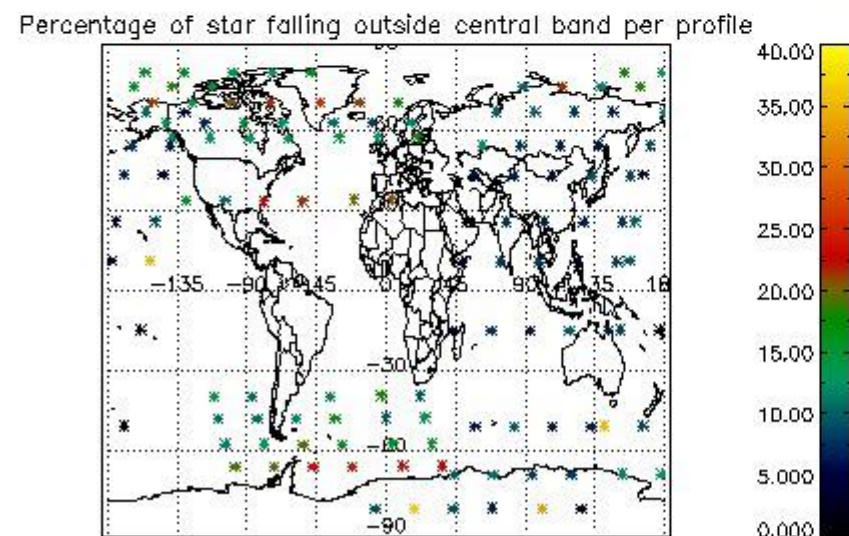
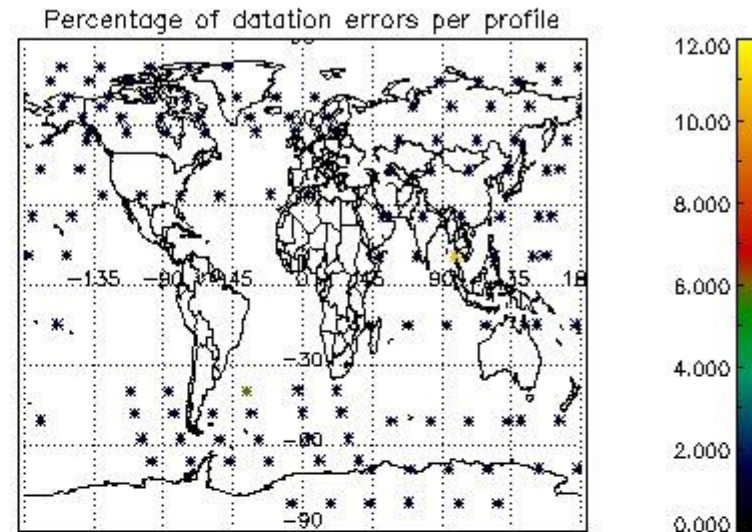
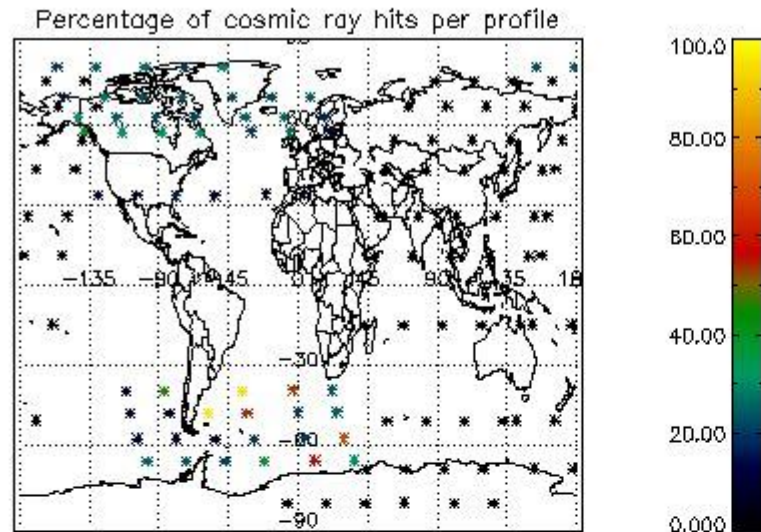
At least one measurement with demodulation flag set:	37.9845 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)





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

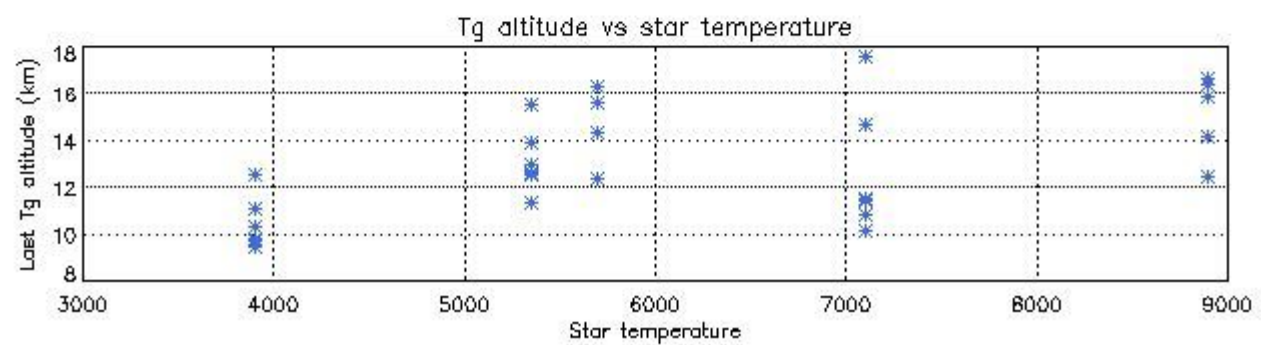
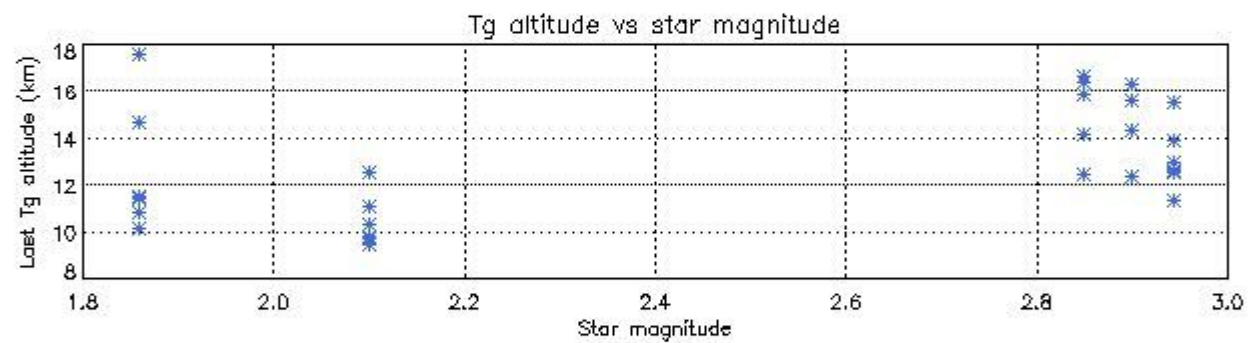
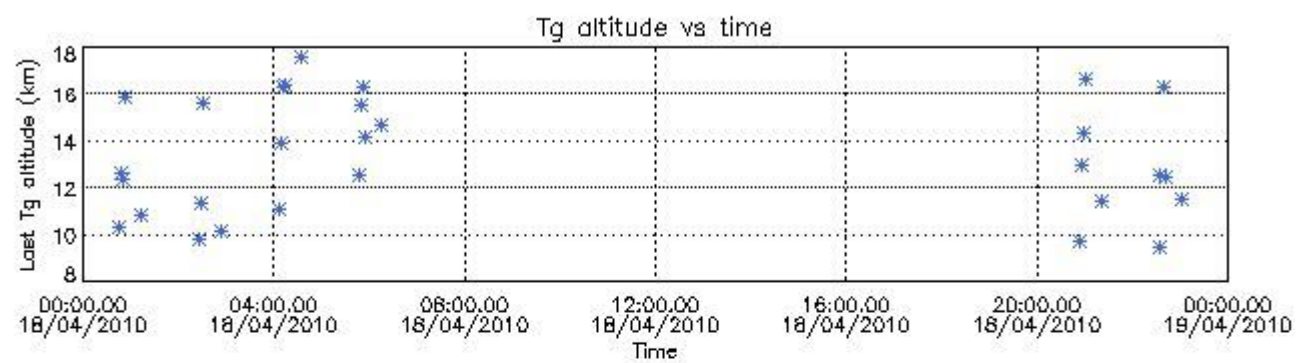
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.266	18.557	NaN
St. deviation:	2.4682	4.5982	NaN
Maximum:	17.556	27.658	NaN
Minimum:	9.4639	3.6558	NaN
Number of data:	29.000	72.000	NaN

### 6.2 Plot for DARK limb products

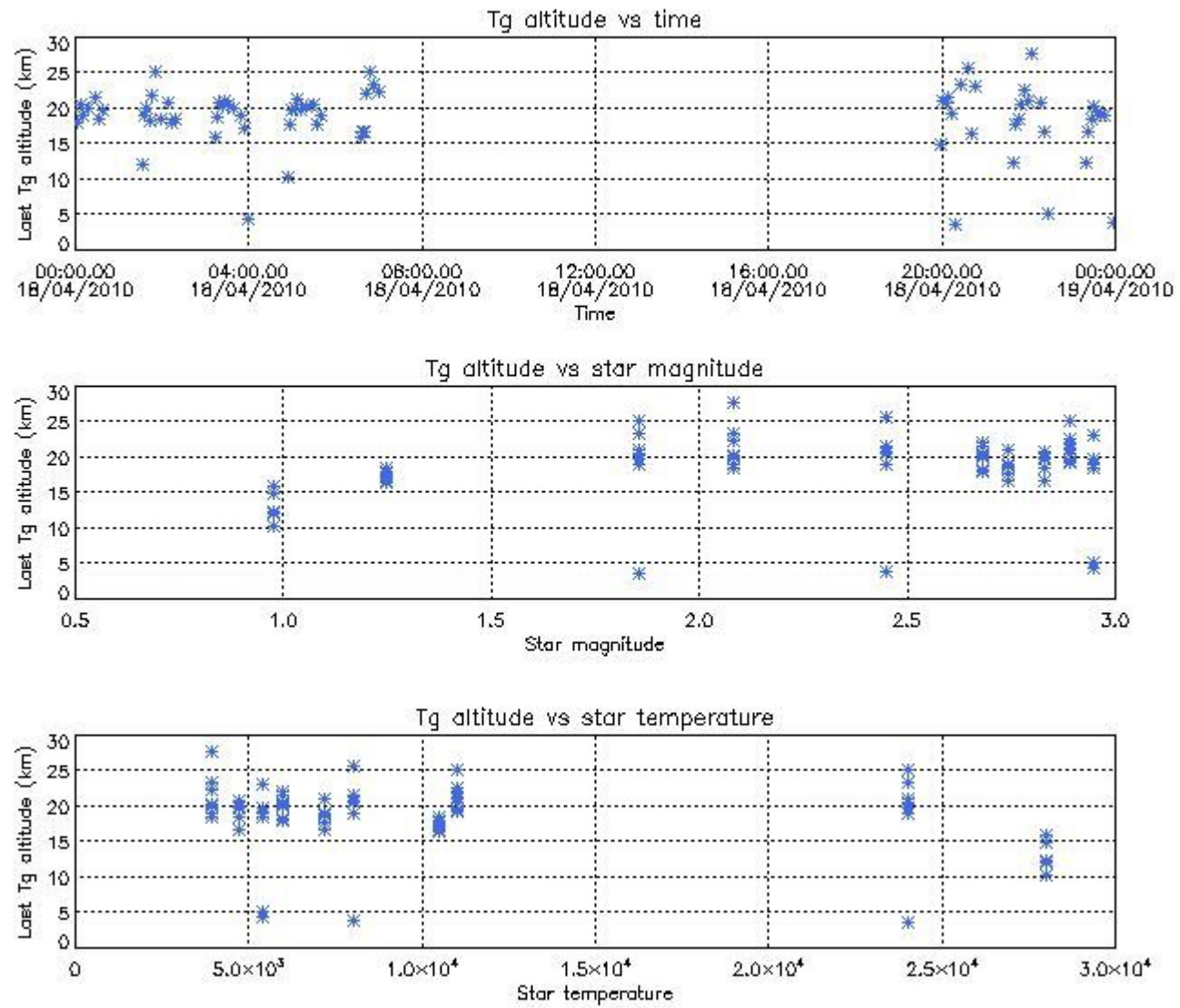


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost

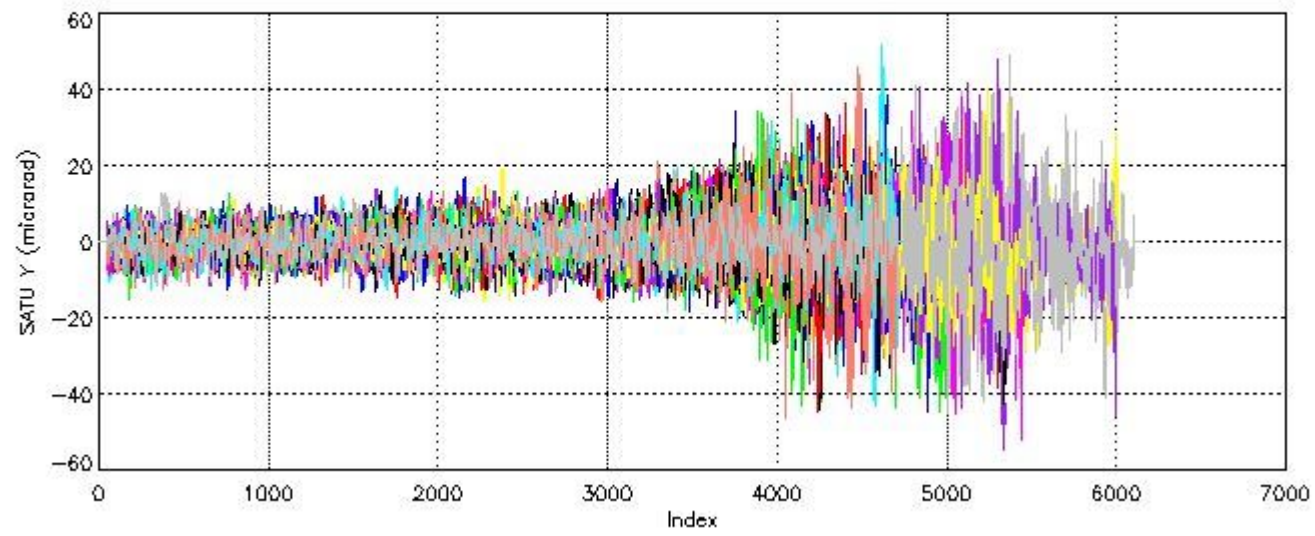
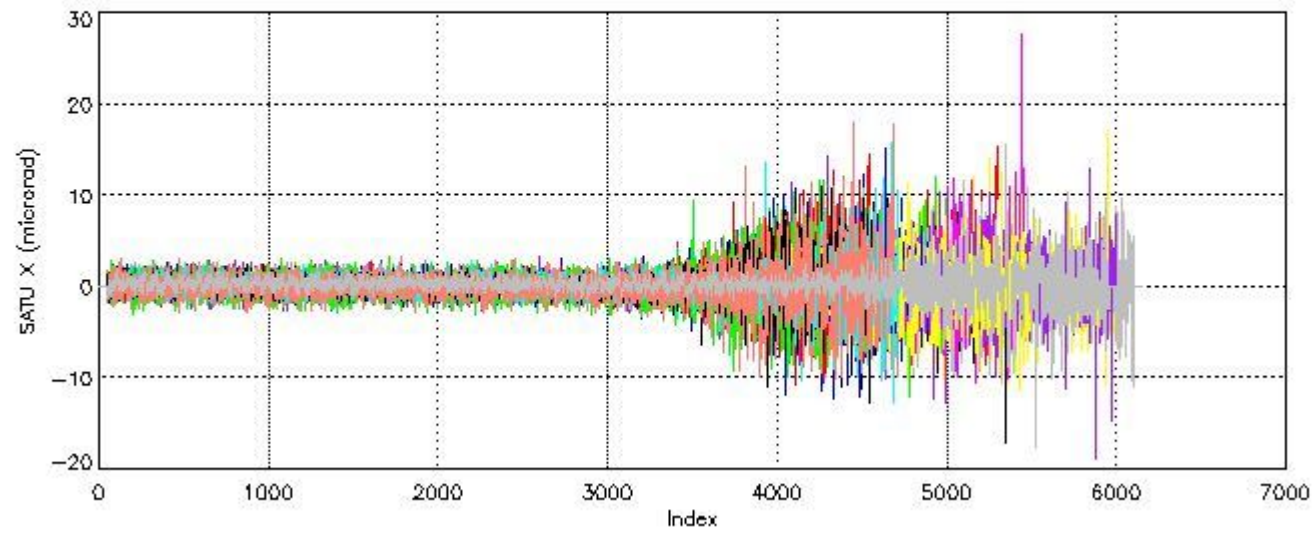


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.19676	-0.44039	0.19018	-0.52377
St. deviation:	0.58594	3.2877	0.81878	3.2941
Maximum:	3.1000	12.700	7.3000	13.100
Minimum:	-3.2000	-15.300	-6.6000	-15.800



Number of data:	30500.	30500.	69900.	69900.
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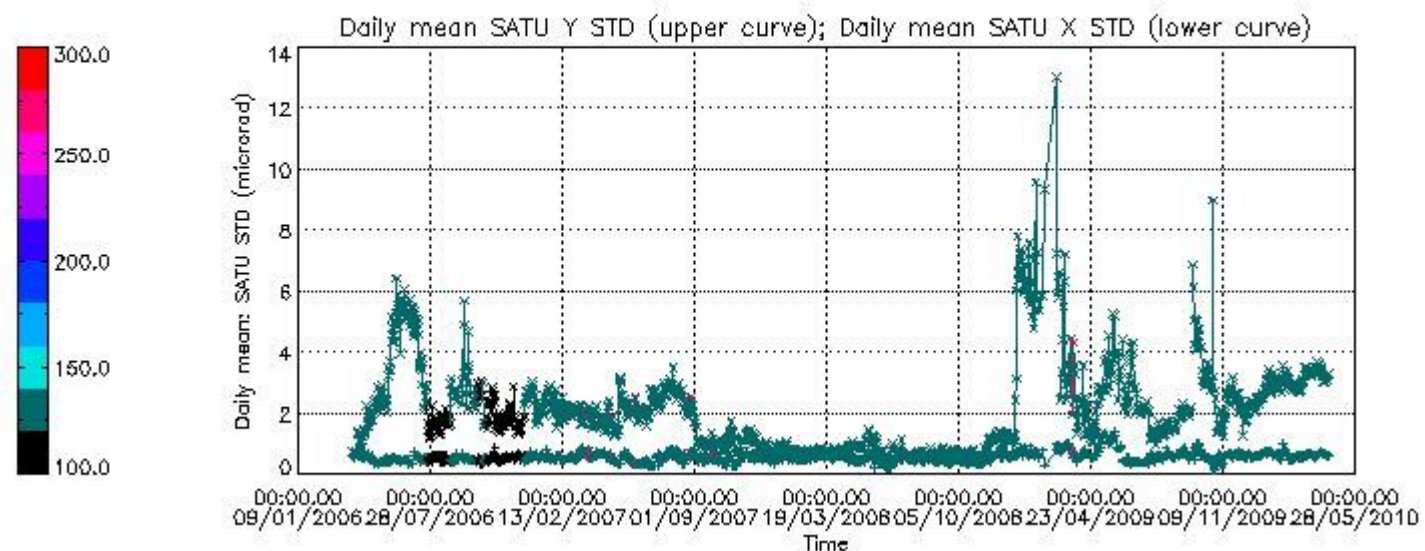
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

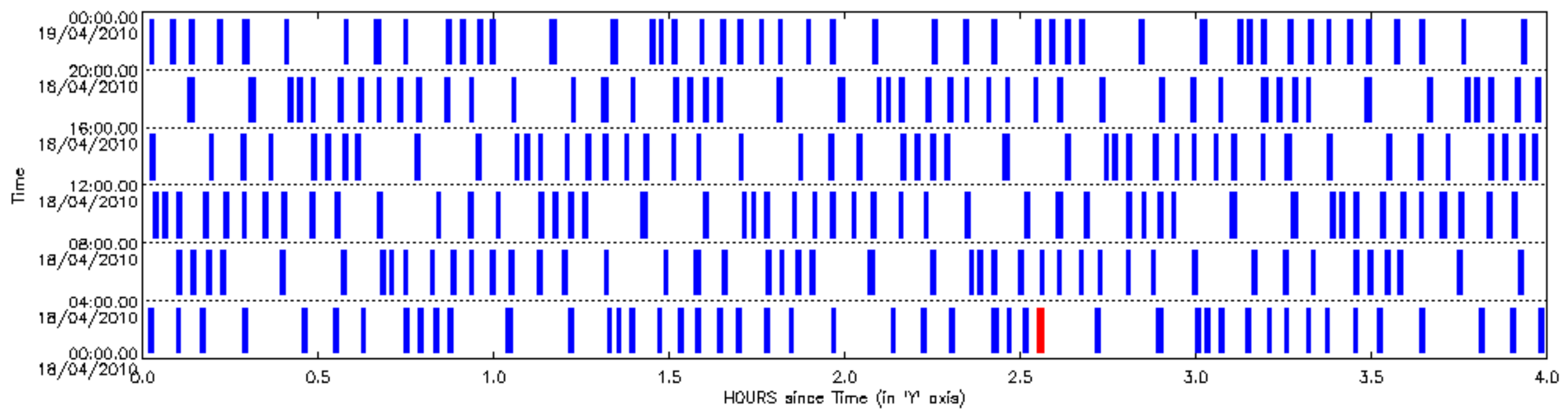
Lower curve: STD of SATU X axis

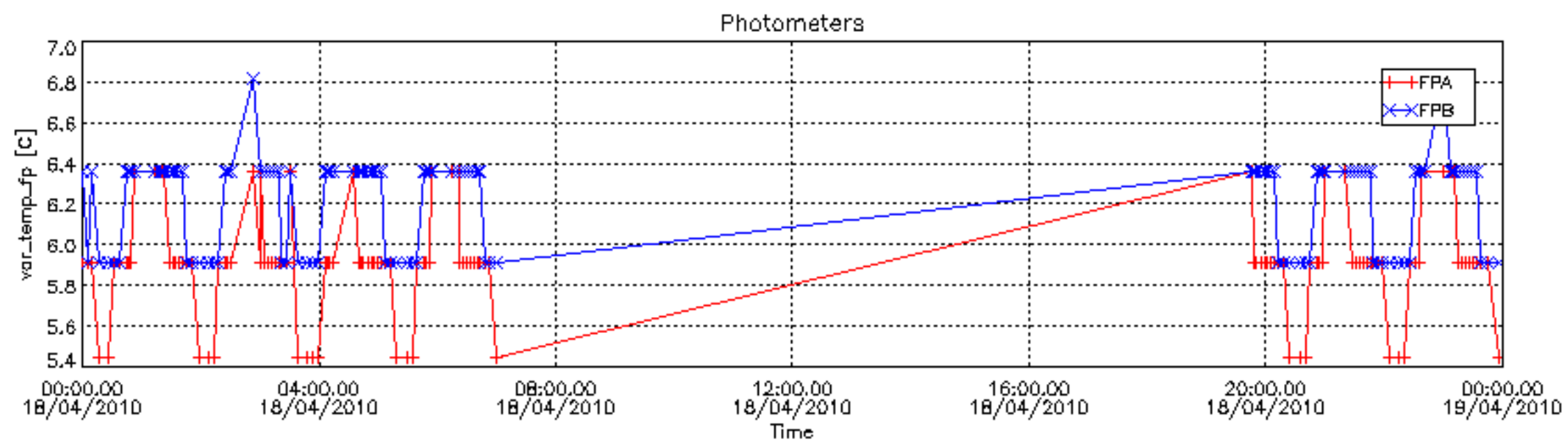
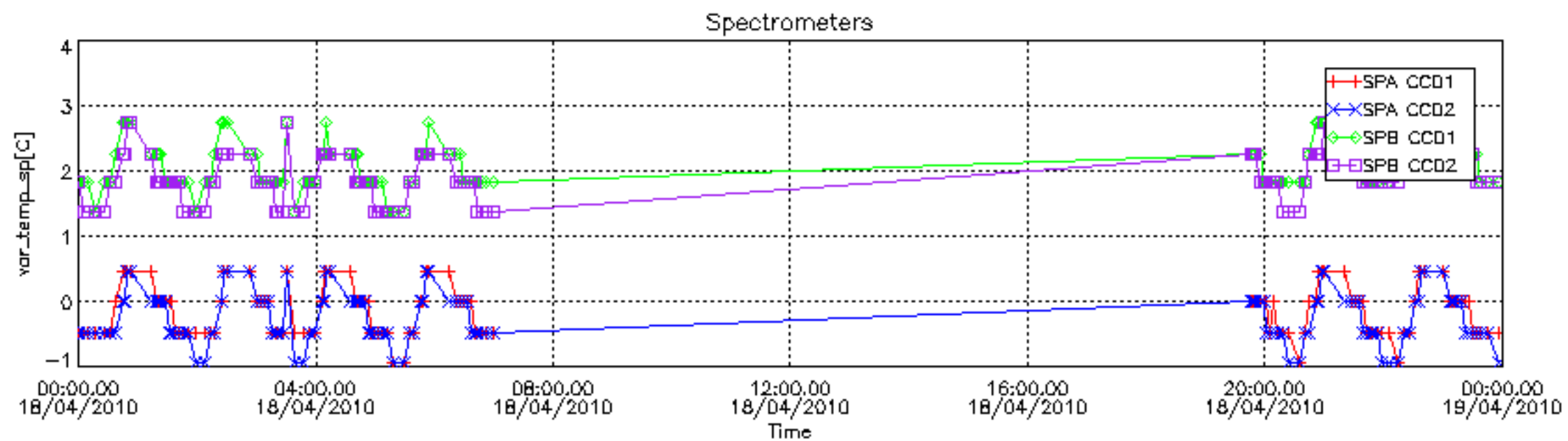


### 8. Auxiliary Data Files used for the production reported in section 2.4

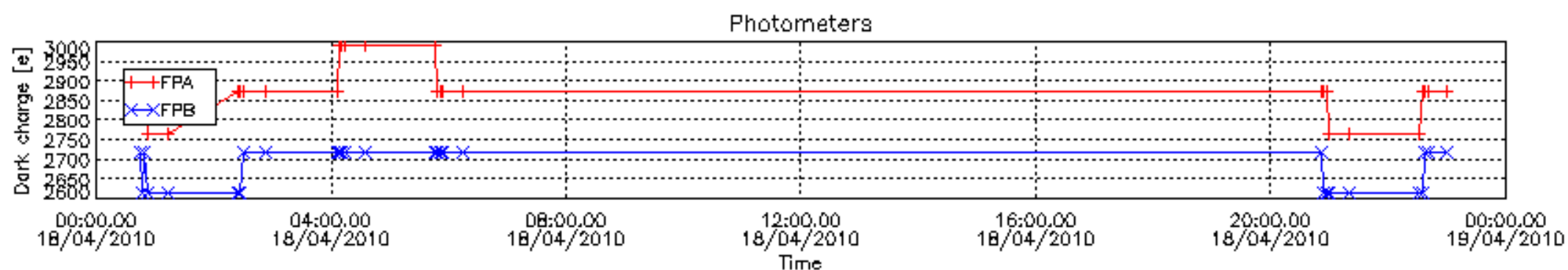
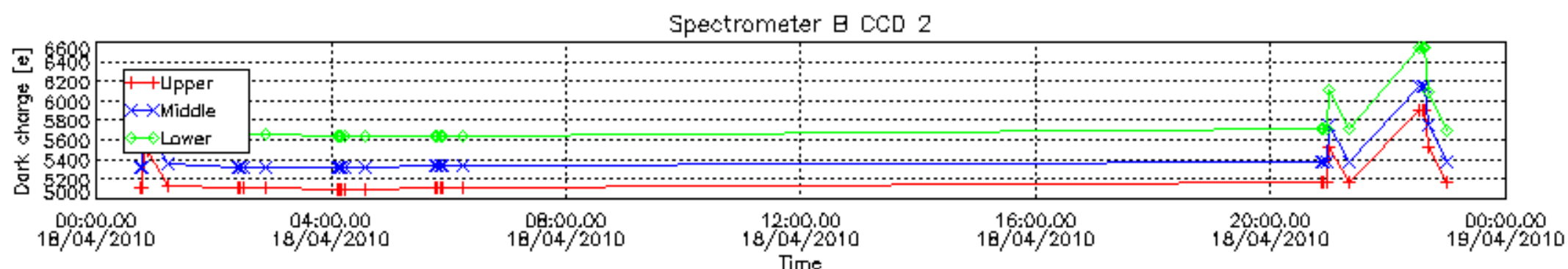
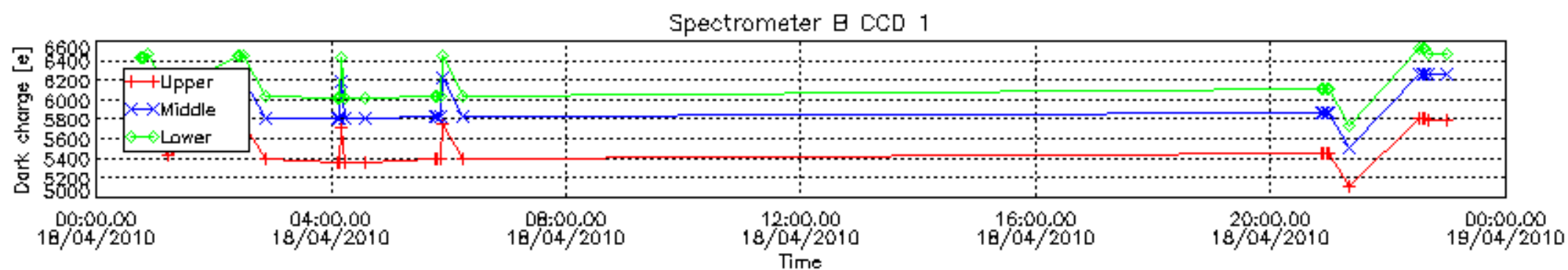
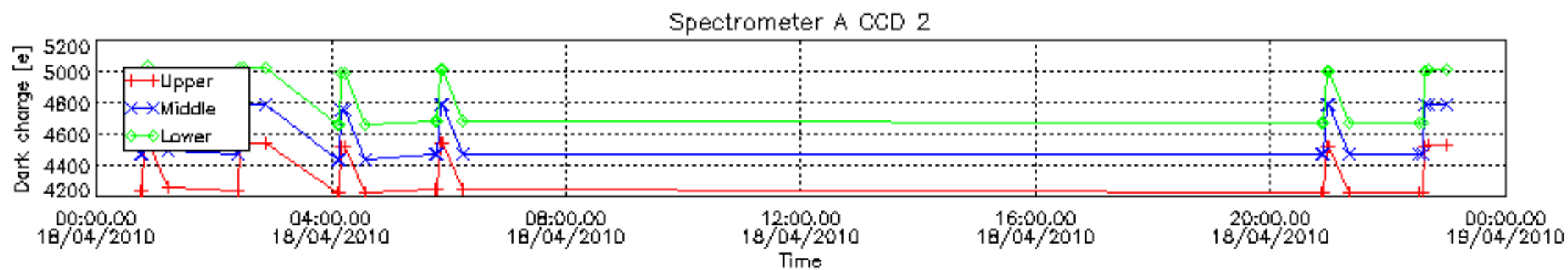
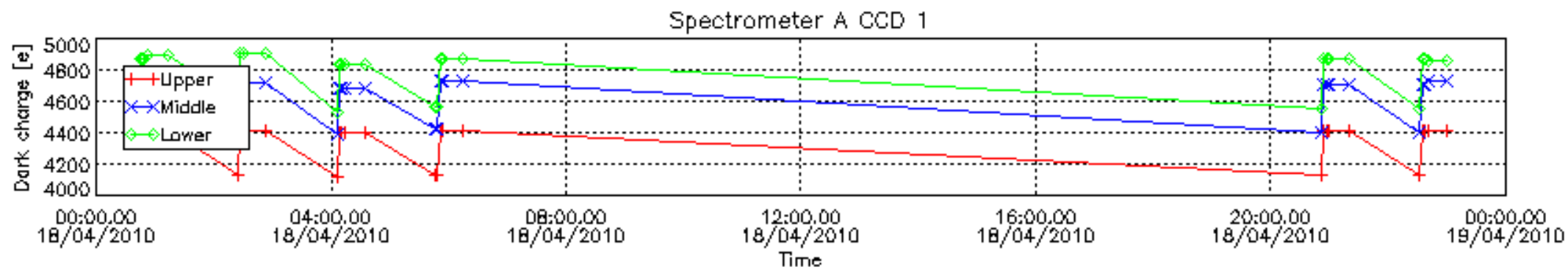
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

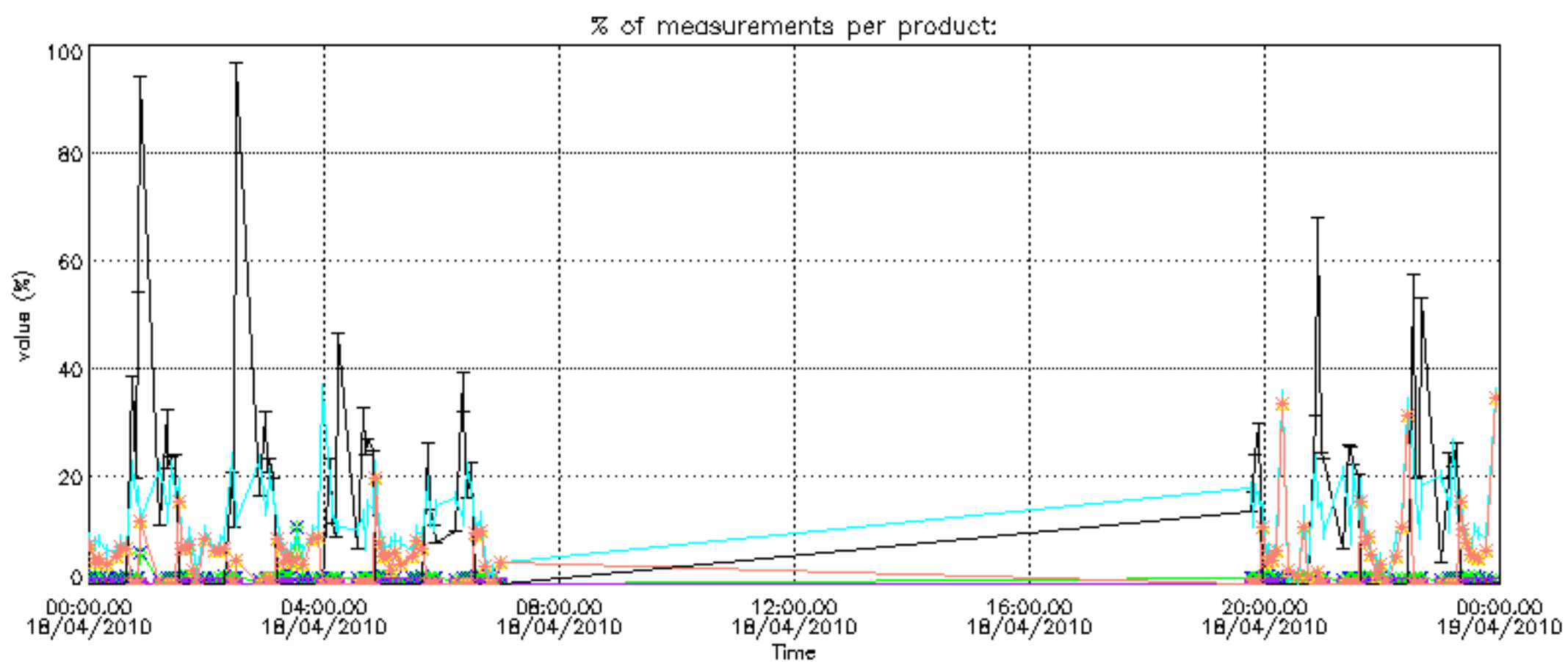
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	18-APR-2010 00:00:51
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100413_150709_20100411_000000_20500101_000000	1	18-APR-2010 00:00:51
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	18-APR-2010 00:00:51
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	18-APR-2010 00:00:51
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	18-APR-2010 00:00:51
ECMWF_FILE	AUX_ECF_AXNECM20100417_054115_20100417_210000_20100418_090000	1	18-APR-2010 00:00:51
ECMWF_FILE	AUX_ECF_AXNECM20100417_172053_20100418_030000_20100418_150000	40	18-APR-2010 03:31:06
ECMWF_FILE	AUX_ECA_AXNECM20100418_052116_20100417_210000_20100418_090000	61	18-APR-2010 05:29:01
ECMWF_FILE	AUX_ECA_AXNECM20100418_172943_20100418_090000_20100418_210000	80	18-APR-2010 19:46:03
ECMWF_FILE	AUX_ECF_AXNECM20100418_052117_20100418_150000_20100419_030000	94	18-APR-2010 20:51:51
ECMWF_FILE	AUX_ECF_AXNECM20100418_054116_20100418_210000_20100419_090000	116	18-APR-2010 22:40:03
OPTIONAL_ECMWF_FILE	MISSING	1	18-APR-2010 00:00:51
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100417_094052_20100416_185230_20100426_201843	1	18-APR-2010 00:00:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100418_005107_000092452088_00374_42512_0181.N1	11	18-APR-2010 00:52:07
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100418_033031_000063762088_00376_42514_0182.N1	40	18-APR-2010 03:31:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100418_052205_000057382088_00377_42515_0183.N1	61	18-APR-2010 05:29:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100418_194249_000038252088_00386_42524_0184.N1	80	18-APR-2010 19:46:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100418_204635_000063762088_00386_42524_0185.N1	94	18-APR-2010 20:51:51
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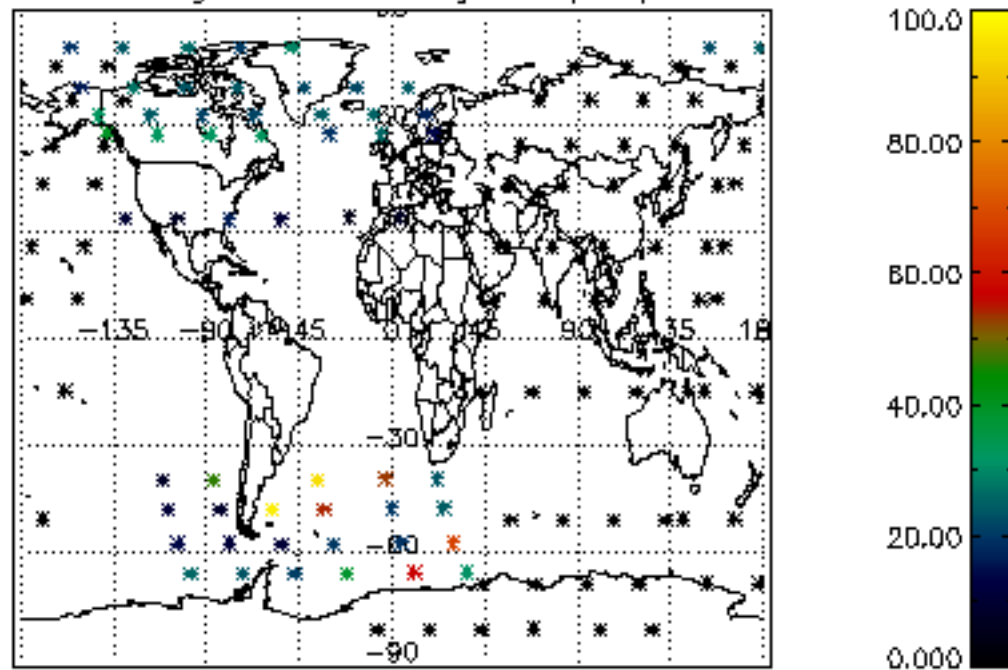




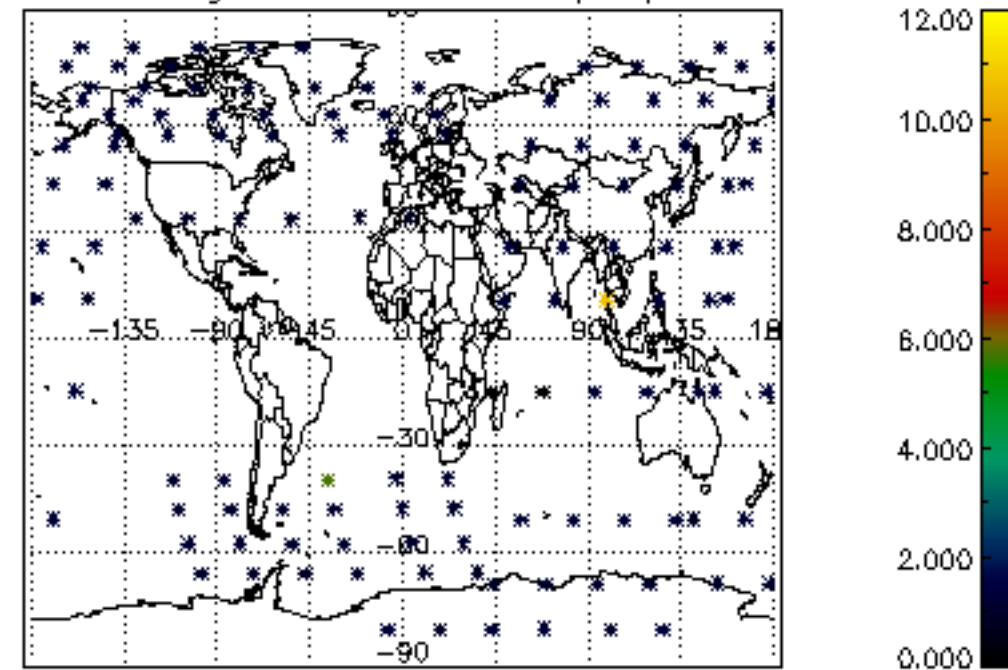




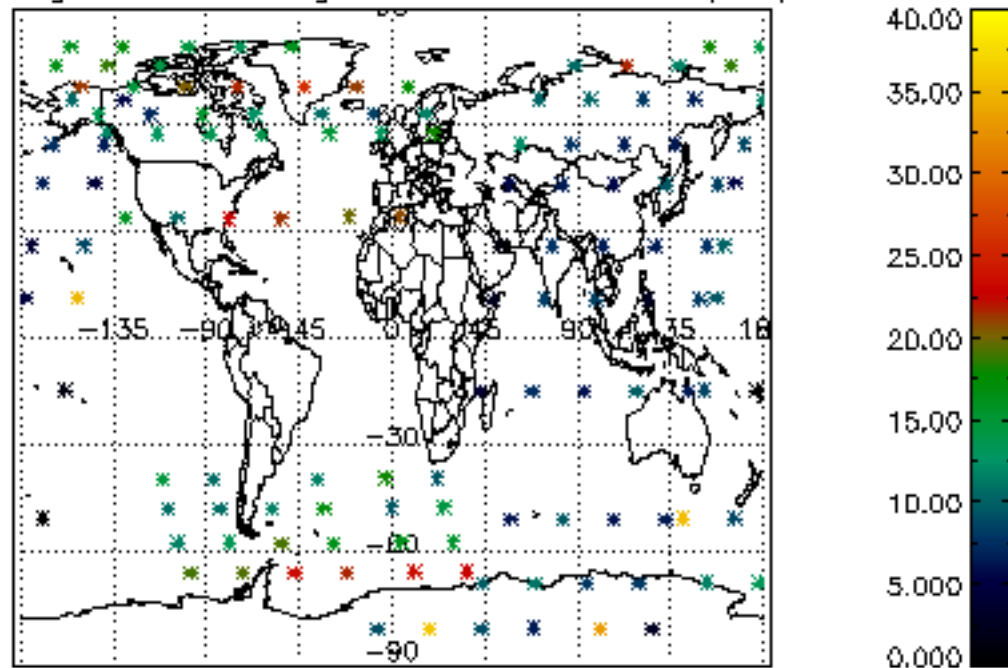
Percentage of cosmic ray hits per profile



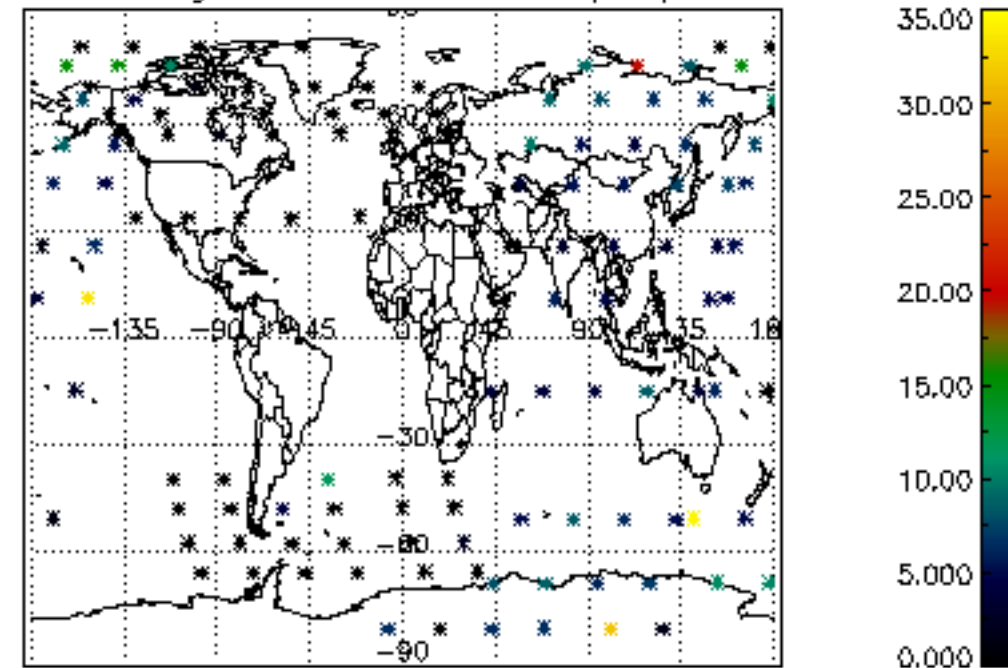
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

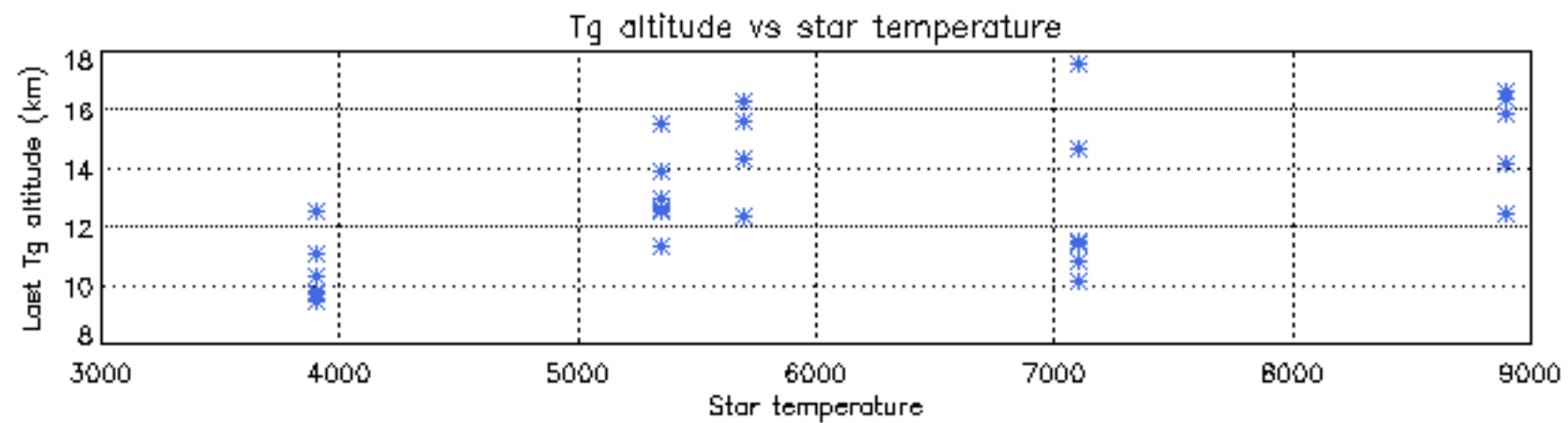
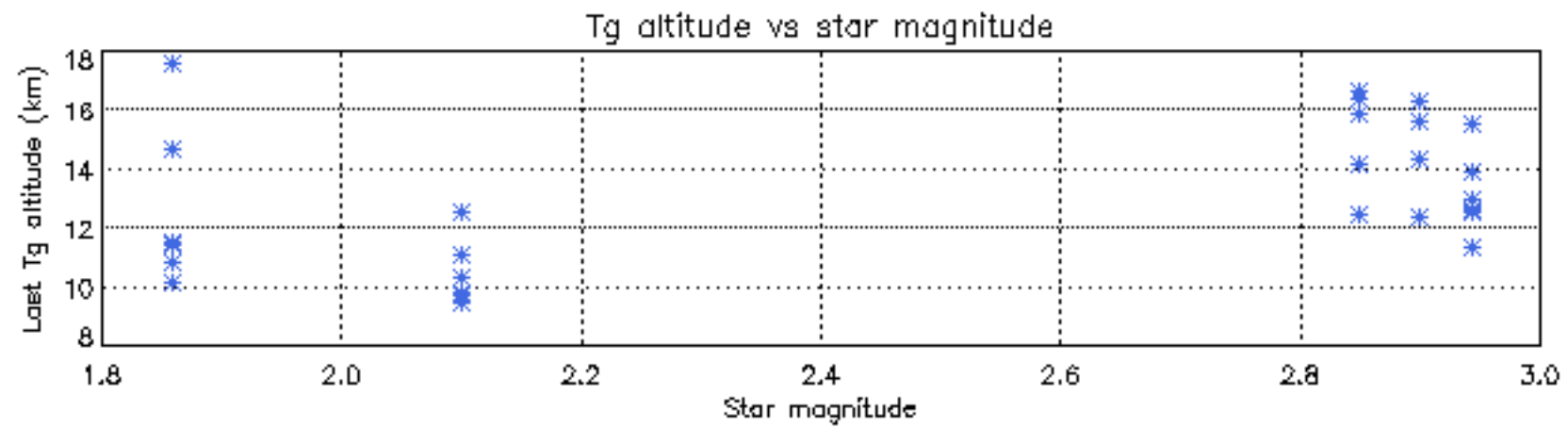
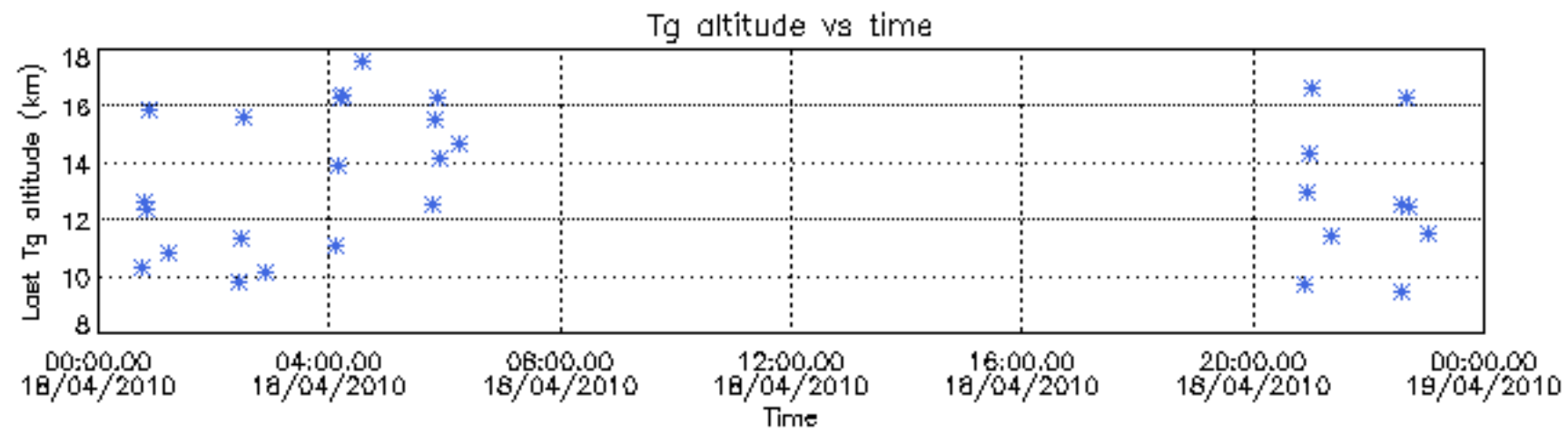


Percentage of saturation errors per profile

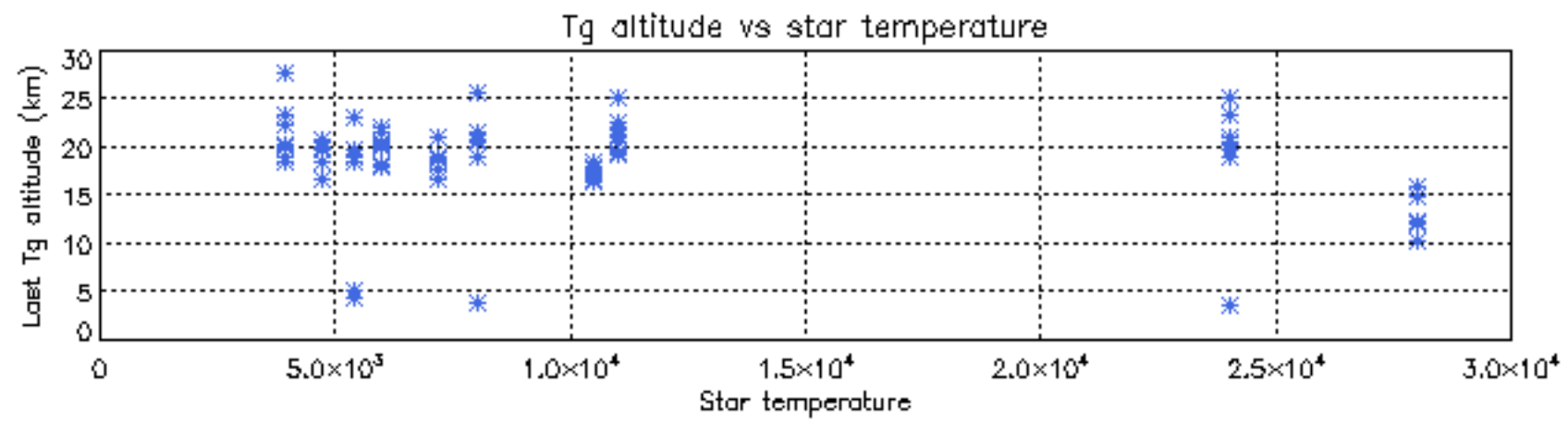
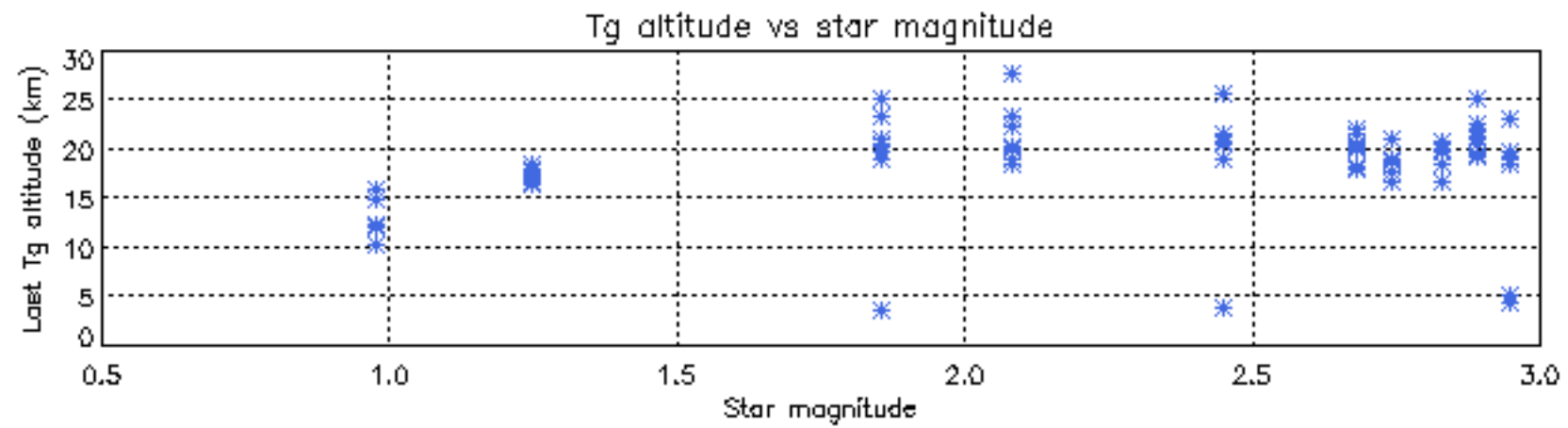
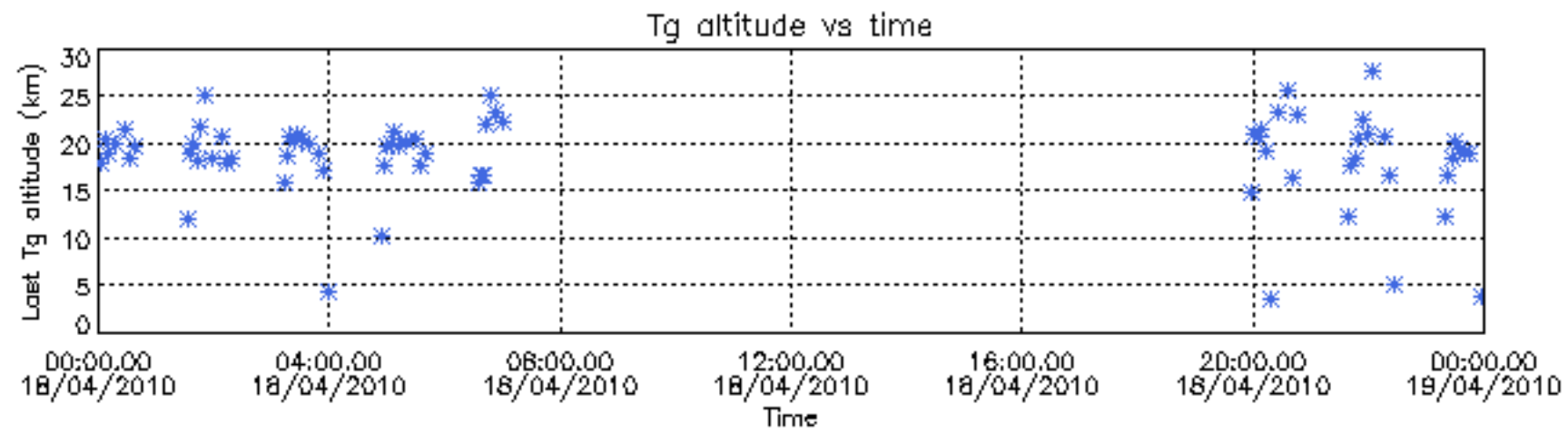


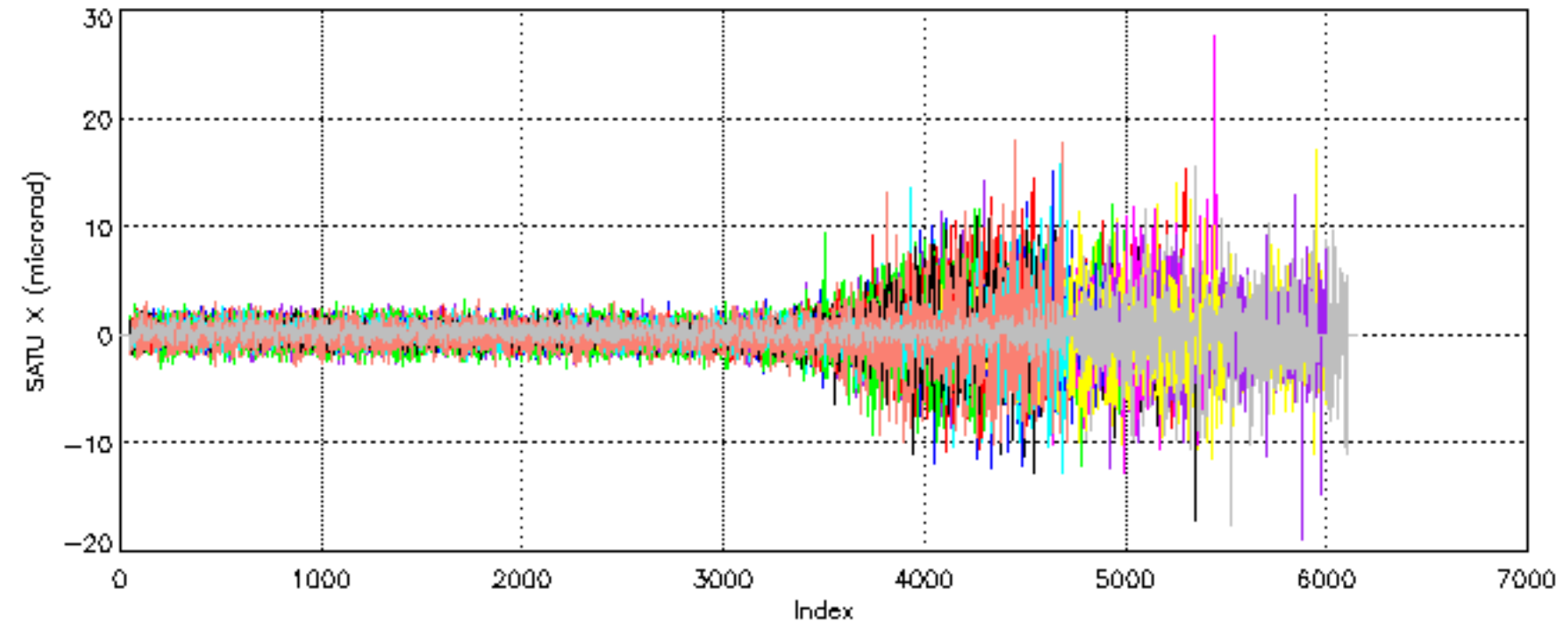


Tangent altitude at which the star is lost

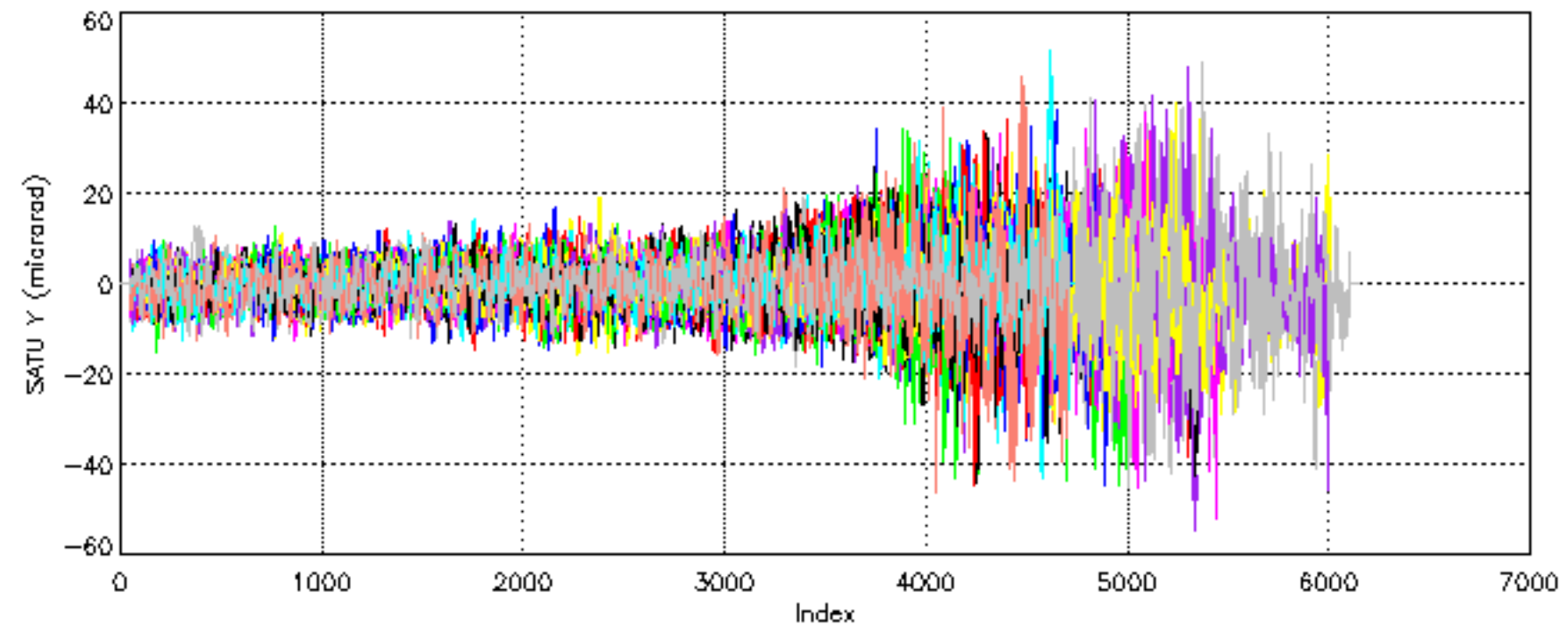


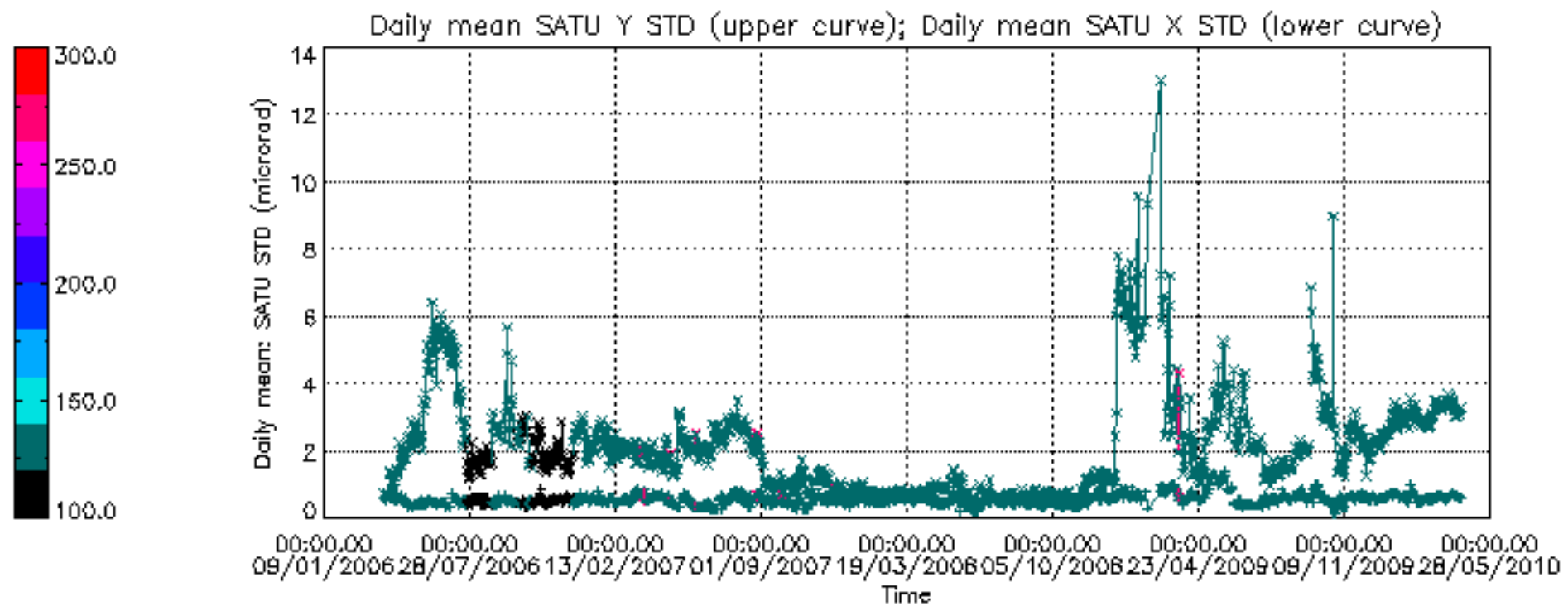
Tangent altitude at which the star is lost











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 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  
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 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  
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 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  
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 4;-1601.7; 01-APR-2010 02:51:42; Bright; 45.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 90; 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  
 10; 674.2; 01-APR-2010 03:29:38; Dark ; 52.5; 4; Alp1Cen ;-0.01; 5800;occ; 105; 0;42271  
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 18; 2257.1; 01-APR-2010 03:56:01; Bright; 37.0; 96; 68Del Leo ; 2.56; 9300;occ; 74; 0;42271  
 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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 8; 295.5; 01-APR-2010 05:03:56; Dark ; 53.0; 40; The Sco ; 1.86; 7100;occ; 106; 0;42272  
 9; 516.4; 01-APR-2010 05:07:36; Dark ; 40.5; 134; Bet TrA ; 2.81; 6600;occ; 81; 0;42272  
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 13; 1100.1; 01-APR-2010 05:17:20; Dark ; 52.5; 54; 5The Cen ; 2.06; 4500;occ; 105; 0;42272  
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 17; 1883.0; 01-APR-2010 05:30:23; Bright; 45.5; 121; 29Gam Vir ; 2.74; 7200;occ; 91; 0;42272  
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 19; 2257.0; 01-APR-2010 05:36:37; Bright; 36.0; 96; 68Del Leo ; 2.56; 9300;occ; 72; 0;42272  
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 21; 2848.4; 01-APR-2010 05:46:28; Bright; 37.0; 87; 64Gam UMa ; 2.43; 11000;occ; 74; 0;42272  
 22; 2958.0; 01-APR-2010 05:48:18; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;42272  
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5; 1688.0; 01-APR-2010 20:32:31; Dark ; 54.0; 15; 67Alp Vir ; 0.98; 28000;occ; 108; 0;42281
6; 1882.1; 01-APR-2010 20:35:46; Bright; 44.0; 121; 29Gam Vir ; 2.74; 7200;occ; 88; 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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3; 80.8; 01-APR-2010 21:46:20; Dark ; 56.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 112; 0;42282
4; 306.4; 01-APR-2010 21:50:06; Dark ; 50.5; 40; The Sco ; 1.86; 7100;occ; 101; 0;42282
5; 521.6; 01-APR-2010 21:53:41; Dark ; 39.5; 134; Bet TrA ; 2.81; 6600;occ; 79; 0;42282
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3; 82.4; 01-APR-2010 23:26:58; Dark ; 55.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 110; 0;42283
4; 307.6; 01-APR-2010 23:30:43; Dark ; 52.5; 40; The Sco ; 1.86; 7100;occ; 105; 0;42283
5; 522.1; 01-APR-2010 23:34:17; Dark ; 40.0; 134; Bet TrA ; 2.81; 6600;occ; 80; 0;42283
6; 680.0; 01-APR-2010 23:36:55; Dark ; 44.5; 4; Alp1Cen ; -0.01; 5800;occ; 89; 0;42283
7; 846.3; 01-APR-2010 23:39:41; Dark ; 46.0; 78; Alp Lup ; 2.30; 28000;occ; 92; 0;42283
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9; 1105.5; 01-APR-2010 23:44:01; Dark ; 53.5; 54; 5The Cen ; 2.06; 4500;occ; 107; 0;42283
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 9; 3879.4; 15-APR-2010 15:26:59; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;42478  
 10; 4195.7; 15-APR-2010 15:32:15; Bright; 48.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 97; 0;42478  
 11; 4474.0; 15-APR-2010 15:36:53; Bright; 37.5; 164; 44Eta Peg ; 2.95; 5400;occ; 75; 0;42478  
 12; 4898.6; 15-APR-2010 15:43:58; Dark ; 53.5; 61; 8Eps Peg ; 2.10; 3900;occ; 107; 0;42478  
 13; 5046.5; 15-APR-2010 15:46:26; Dark ; 46.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 93; 0;42478  
 14; 5203.4; 15-APR-2010 15:49:03; Dark ; 47.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 95; 0;42478  
 15; 5346.9; 15-APR-2010 15:51:26; Dark ; 42.5; 142; 49Del Cap ; 2.85; 8900;occ; 85; 0;42478  
 16; 5925.1; 15-APR-2010 16:01:04; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;42478

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1; 527.4; 15-APR-2010 17:52:19; Dark ; 51.0; 40; The Sco ; 1.86; 7100;occ; 102; 0;42480  
 2; 951.9; 15-APR-2010 17:59:23; Dark ; 42.0; 78; Alp Lup ; 2.30; 28000;occ; 84; 0;42480  
 3; 1047.4; 15-APR-2010 18:00:59; Dark ; 42.5; 81; Eta Cen ; 2.36; 28000;occ; 85; 0;42480

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 2; 1190.0; 15-APR-2010 18:03:21; Dark ; 48.0; 54; 5The Cen ; 2.06; 4500;occ; 96; 0;42480  
 3; 1473.4; 15-APR-2010 18:08:05; Dark ; 45.0; 169; 46Gam Hya ; 2.99; 4700;occ; 90; 0;42480

4; 1692.0; 15-APR-2010 18:11:43; Bright; 47.0; 15; 67Alp Vir ; 0.98; 28000;occ; 94; 0;42480  
5; 1875.0; 15-APR-2010 18:14:46; Bright; 39.5; 121; 29Gam Vir ; 2.74; 7200;occ; 79; 0;42480  
6; 2102.7; 15-APR-2010 18:18:34; Bright; 40.0; 138; 47Eps Vir ; 2.83; 4700;occ; 80; 0;42480  
7; 2307.0; 15-APR-2010 18:21:58; Bright; 48.0; 111; 8Eta Boo ; 2.68; 6000;occ; 96; 0;42480  
8; 2589.9; 15-APR-2010 18:26:41; Bright; 39.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 78; 0;42480  
9; 2849.6; 15-APR-2010 18:31:01; Bright; 44.5; 39; 85Eta UMa ; 1.85; 24000;occ; 89; 0;42480  
10; 3273.0; 15-APR-2010 18:38:04; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;42480  
11; 3360.0; 15-APR-2010 18:39:31; Bright; 69.0; 119; 14Eta Dra ; 2.73; 4700;occ; 138; 0;42480  
12; 3879.1; 15-APR-2010 18:48:10; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;42480  
13; 4195.3; 15-APR-2010 18:53:27; Bright; 68.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 136; 0;42480  
14; 4474.5; 15-APR-2010 18:58:06; Bright; 54.0; 164; 44Eta Peg ; 2.95; 5400;occ; 108; 0;42480  
15; 4899.1; 15-APR-2010 19:05:10; Dark ; 55.0; 61; 8Eps Peg ; 2.10; 3900;occ; 110; 0;42480  
16; 5047.0; 15-APR-2010 19:07:38; Dark ; 45.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 91; 0;42480  
17; 5204.7; 15-APR-2010 19:10:16; Dark ; 48.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 97; 0;42480  
18; 5348.2; 15-APR-2010 19:12:39; Dark ; 43.5; 142; 49Del Cap ; 2.85; 8900;occ; 87; 0;42480  
19; 5927.4; 15-APR-2010 19:22:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42480  
20; 6564.5; 15-APR-2010 19:32:56; Dark ; 59.5; 40; The Sco ; 1.86; 7100;occ; 119; 0;42481

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2; -105.1; 16-APR-2010 00:24:10; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;42483  
3; 531.5; 16-APR-2010 00:34:46; Dark ; 54.0; 40; The Sco ; 1.86; 7100;occ; 108; 0;42484  
4; 953.8; 16-APR-2010 00:41:49; Dark ; 43.0; 78; Alp Lup ; 2.30; 28000;occ; 86; 0;42484  
5; 1049.2; 16-APR-2010 00:43:24; Dark ; 45.5; 81; Eta Cen ; 2.36; 28000;occ; 91; 0;42484  
6; 1191.1; 16-APR-2010 00:45:46; Dark ; 47.0; 54; 5The Cen ; 2.06; 4500;occ; 94; 0;42484  
7; 1473.8; 16-APR-2010 00:50:29; Dark ; 45.0; 169; 46Gam Hya ; 2.99; 4700;occ; 90; 0;42484  
8; 1692.2; 16-APR-2010 00:54:07; Bright; 46.5; 15; 67Alp Vir ; 0.98; 28000;occ; 93; 0;42484  
9; 1875.0; 16-APR-2010 00:57:10; Bright; 38.5; 121; 29Gam Vir ; 2.74; 7200;occ; 77; 0;42484  
10; 2101.8; 16-APR-2010 01:00:57; Bright; 40.5; 138; 47Eps Vir ; 2.83; 4700;occ; 81; 0;42484  
11; 2304.6; 16-APR-2010 01:04:19; Bright; 49.0; 111; 8Eta Boo ; 2.68; 6000;occ; 98; 0;42484  
12; 2588.7; 16-APR-2010 01:09:04; Bright; 40.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 80; 0;42484  
13; 2847.5; 16-APR-2010 01:13:22; Bright; 42.5; 39; 85Eta UMa ; 1.85; 24000;occ; 85; 0;42484  
14; 3272.0; 16-APR-2010 01:20:27; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;42484  
15; 3356.8; 16-APR-2010 01:21:52; Bright; 48.0; 119; 14Eta Dra ; 2.73; 4700;occ; 96; 0;42484  
16; 3878.4; 16-APR-2010 01:30:33; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;42484  
17; 4194.3; 16-APR-2010 01:35:49; Bright; 47.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 94; 0;42484  
18; 4474.8; 16-APR-2010 01:40:30; Bright; 36.0; 164; 44Eta Peg ; 2.95; 5400;occ; 72; 0;42484  
19; 4900.4; 16-APR-2010 01:47:35; Dark ; 52.0; 61; 8Eps Peg ; 2.10; 3900;occ; 104; 0;42484  
20; 5048.8; 16-APR-2010 01:50:04; Dark ; 47.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 95; 0;42484  
21; 5207.4; 16-APR-2010 01:52:42; Dark ; 22.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 45; 0;42484

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2; -685.6; 16-APR-2010 01:55:05; Dark ; 44.0; 142; 49Del Cap ; 2.85; 8900;occ; 88; 0;42484  
3; -104.0; 16-APR-2010 02:04:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42484  
4; 532.7; 16-APR-2010 02:15:23; Dark ; 59.0; 40; The Sco ; 1.86; 7100;occ; 118; 0;42485  
5; 954.0; 16-APR-2010 02:22:25; Dark ; 43.0; 78; Alp Lup ; 2.30; 28000;occ; 86; 0;42485  
6; 1049.5; 16-APR-2010 02:24:00; Dark ; 45.0; 81; Eta Cen ; 2.36; 28000;occ; 90; 0;42485  
7; 1191.7; 16-APR-2010 02:26:22; Dark ; 48.5; 54; 5The Cen ; 2.06; 4500;occ; 97; 0;42485  
8; 1474.2; 16-APR-2010 02:31:05; Dark ; 44.5; 169; 46Gam Hya ; 2.99; 4700;occ; 89; 0;42485  
9; 1692.2; 16-APR-2010 02:34:43; Bright; 51.5; 15; 67Alp Vir ; 0.98; 28000;occ; 103; 0;42485  
10; 1875.1; 16-APR-2010 02:37:46; Bright; 38.0; 121; 29Gam Vir ; 2.74; 7200;occ; 76; 0;42485  
11; 2101.6; 16-APR-2010 02:41:32; Bright; 41.0; 138; 47Eps Vir ; 2.83; 4700;occ; 82; 0;42485  
12; 2304.2; 16-APR-2010 02:44:55; Bright; 48.5; 111; 8Eta Boo ; 2.68; 6000;occ; 97; 0;42485  
13; 2588.1; 16-APR-2010 02:49:39; Bright; 39.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 79; 0;42485  
14; 2847.2; 16-APR-2010 02:53:58; Bright; 41.5; 39; 85Eta UMa ; 1.85; 24000;occ; 83; 0;42485  
15; 3271.6; 16-APR-2010 03:01:02; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;42485  
16; 3356.1; 16-APR-2010 03:02:27; Bright; 47.0; 119; 14Eta Dra ; 2.73; 4700;occ; 94; 0;42485

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4; -1134.5; 16-APR-2010 03:28:12; Dark ; 51.5; 61; 8Eps Peg ; 2.10; 3900;occ; 103; 0;42485  
5; -986.7; 16-APR-2010 03:30:40; Dark ; 44.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 89; 0;42485  
6; -828.1; 16-APR-2010 03:33:19; Dark ; 47.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 95; 0;42485  
7; -685.0; 16-APR-2010 03:35:42; Dark ; 45.0; 142; 49Del Cap ; 2.85; 8900;occ; 90; 0;42485  
8; -102.8; 16-APR-2010 03:45:24; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;42485  
9; 533.8; 16-APR-2010 03:56:00; Dark ; 56.5; 40; The Sco ; 1.86; 7100;occ; 113; 0;42486  
10; 954.9; 16-APR-2010 04:03:02; Dark ; 44.0; 78; Alp Lup ; 2.30; 28000;occ; 88; 0;42486  
11; 1050.2; 16-APR-2010 04:04:37; Dark ; 43.0; 81; Eta Cen ; 2.36; 28000;occ; 86; 0;42486

12; 1192.3; 16-APR-2010 04:06:59; Dark ; 44.5; 54; 5The Cen ; 2.06; 4500;occ; 89; 0;42486  
 13; 1474.7; 16-APR-2010 04:11:41; Dark ; 43.5; 169; 46Gam Hya ; 2.99; 4700;occ; 87; 0;42486  
 14; 1692.2; 16-APR-2010 04:15:19; Bright; 45.5; 15; 67Alp Vir ; 0.98; 28000;occ; 91; 0;42486  
 15; 1875.2; 16-APR-2010 04:18:22; Bright; 38.5; 121; 29Gam Vir ; 2.74; 7200;occ; 77; 0;42486  
 16; 2101.5; 16-APR-2010 04:22:08; Bright; 40.0; 138; 47Eps Vir ; 2.83; 4700;occ; 80; 0;42486  
 17; 2303.9; 16-APR-2010 04:25:31; Bright; 48.0; 111; 8Eta Boo ; 2.68; 6000;occ; 96; 0;42486  
 18; 2588.2; 16-APR-2010 04:30:15; Bright; 39.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 78; 0;42486  
 19; 2846.7; 16-APR-2010 04:34:33; Bright; 42.0; 39; 85Eta UMa ; 1.85; 24000;occ; 84; 0;42486  
 20; 3271.8; 16-APR-2010 04:41:38; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;42486  
 21; 3355.8; 16-APR-2010 04:43:02; Bright; 68.5; 119; 14Eta Dra ; 2.73; 4700;occ; 137; 0;42486

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 3; -1560.7; 16-APR-2010 05:01:42; Bright; 54.0; 164; 44Eta Peg ; 2.95; 5400;occ; 108; 0;42486  
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 5; -986.0; 16-APR-2010 05:11:17; Dark ; 46.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 93; 0;42486  
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 8; -101.6; 16-APR-2010 05:26:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42486  
 9; 535.0; 16-APR-2010 05:36:38; Dark ; 51.0; 40; The Sco ; 1.86; 7100;occ; 102; 0;42487  
 10; 955.0; 16-APR-2010 05:43:38; Dark ; 41.0; 78; Alp Lup ; 2.30; 28000;occ; 82; 0;42487  
 11; 1050.8; 16-APR-2010 05:45:13; Dark ; 41.5; 81; Eta Cen ; 2.36; 28000;occ; 83; 0;42487  
 12; 1192.2; 16-APR-2010 05:47:35; Dark ; 48.5; 54; 5The Cen ; 2.06; 4500;occ; 97; 0;42487  
 13; 1474.6; 16-APR-2010 05:52:17; Dark ; 42.5; 169; 46Gam Hya ; 2.99; 4700;occ; 85; 0;42487  
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 15; 1875.2; 16-APR-2010 05:58:58; Bright; 39.5; 121; 29Gam Vir ; 2.74; 7200;occ; 79; 0;42487  
 16; 2101.7; 16-APR-2010 06:02:44; Bright; 40.5; 138; 47Eps Vir ; 2.83; 4700;occ; 81; 0;42487  
 17; 2303.3; 16-APR-2010 06:06:06; Bright; 64.0; 111; 8Eta Boo ; 2.68; 6000;occ; 128; 0;42487  
 18; 2587.9; 16-APR-2010 06:10:51; Bright; 38.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 77; 0;42487  
 19; 2846.2; 16-APR-2010 06:15:09; Bright; 42.0; 39; 85Eta UMa ; 1.85; 24000;occ; 84; 0;42487  
 20; 3271.0; 16-APR-2010 06:22:14; Bright; 56.0; 60; 7Bet UMi ; 2.08; 3950;occ; 112; 0;42487  
 21; 3354.9; 16-APR-2010 06:23:38; Bright; 46.0; 119; 14Eta Dra ; 2.73; 4700;occ; 92; 0;42487

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 2; 1195.7; 16-APR-2010 20:53:02; Dark ; 47.5; 54; 5The Cen ; 2.06; 4500;occ; 95; 0;42496  
 3; 1476.3; 16-APR-2010 20:57:42; Dark ; 43.5; 169; 46Gam Hya ; 2.99; 4700;occ; 87; 0;42496  
 4; 1693.0; 16-APR-2010 21:01:19; Bright; 46.0; 15; 67Alp Vir ; 0.98; 28000;occ; 92; 0;42496  
 5; 1875.6; 16-APR-2010 21:04:22; Bright; 38.5; 121; 29Gam Vir ; 2.74; 7200;occ; 77; 0;42496  
 6; 2100.1; 16-APR-2010 21:08:06; Bright; 39.5; 138; 47Eps Vir ; 2.83; 4700;occ; 79; 0;42496  
 7; 2298.5; 16-APR-2010 21:11:24; Bright; 50.5; 111; 8Eta Boo ; 2.68; 6000;occ; 101; 0;42496  
 8; 2585.3; 16-APR-2010 21:16:11; Bright; 39.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 78; 0;42496  
 9; 2841.9; 16-APR-2010 21:20:28; Bright; 41.5; 39; 85Eta UMa ; 1.85; 24000;occ; 83; 0;42496  
 10; 3268.8; 16-APR-2010 21:27:35; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;42496  
 11; 3876.1; 16-APR-2010 21:37:42; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;42496  
 12; 4476.7; 16-APR-2010 21:47:43; Bright; 54.0; 164; 44Eta Peg ; 2.95; 5400;occ; 108; 0;42496  
 13; 4906.5; 16-APR-2010 21:54:52; Dark ; 51.5; 61; 8Eps Peg ; 2.10; 3900;occ; 103; 0;42496  
 14; 5054.3; 16-APR-2010 21:57:20; Dark ; 44.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 88; 0;42496  
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 16; 5357.5; 16-APR-2010 22:02:23; Dark ; 0.5; 142; 49Del Cap ; 2.85; 8900;occ; 1; 0;42496

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 5; -985.7; 16-APR-2010 06:51:53; Dark ; 47.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 94; 0;42487  
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 7; -683.9; 16-APR-2010 06:56:55; Dark ; 44.5; 142; 49Del Cap ; 2.85; 8900;occ; 89; 0;42487  
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 9; 535.9; 16-APR-2010 07:17:14; Dark ; 53.5; 40; The Sco ; 1.86; 7100;occ; 107; 0;42488  
 10; 955.7; 16-APR-2010 07:24:14; Dark ; 43.5; 78; Alp Lup ; 2.30; 28000;occ; 87; 0;42488  
 11; 1051.3; 16-APR-2010 07:25:50; Dark ; 43.5; 81; Eta Cen ; 2.36; 28000;occ; 87; 0;42488  
 12; 1192.9; 16-APR-2010 07:28:11; Dark ; 47.5; 54; 5The Cen ; 2.06; 4500;occ; 95; 0;42488  
 13; 1474.8; 16-APR-2010 07:32:53; Dark ; 40.5; 169; 46Gam Hya ; 2.99; 4700;occ; 81; 0;42488  
 14; 1692.7; 16-APR-2010 07:36:31; Bright; 24.0; 15; 67Alp Vir ; 0.98; 28000;occ; 48; 0;42488

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 3; 2101.2; 16-APR-2010 07:43:20; Bright; 40.5; 138; 47Eps Vir ; 2.83; 4700;occ; 81; 0;42488



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5; 2587.3; 16-APR-2010 07:51:26; Bright; 39.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 78; 0;42488  
6; 2845.6; 16-APR-2010 07:55:44; Bright; 40.0; 39; 85Eta UMa ; 1.85; 24000;occ; 80; 0;42488  
7; 3270.8; 16-APR-2010 08:02:49; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;42488  
8; 3354.0; 16-APR-2010 08:04:13; Bright; 47.5; 119; 14Eta Dra ; 2.73; 4700;occ; 95; 0;42488  
9; 3877.9; 16-APR-2010 08:12:57; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;42488  
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16; 5412.1; 22-APR-2010 15:32:24; Dark ; 44.5; 142; 49Del Cap ; 2.85; 8900;occ; 89; 0;42578
17; 5716.5; 22-APR-2010 15:37:28; Dark ; 39.5; 172; Gam Gru ; 3.00; 13100;occ; 79; 0;42578
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 6; 634.3; 22-APR-2010 20:55:10; Dark ; 57.5; 40; The Sco ; 1.86; 7100;occ; 115; 0;42582
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 5; 1699.2; 22-APR-2010 21:12:55; Bright; 43.0; 15; 67Alp Vir ; 0.98; 28000;occ; 86; 0;42582
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 7; 2262.9; 22-APR-2010 21:22:18; Bright; 42.0; 111; 8Eta Boo ; 2.68; 6000;occ; 84; 0;42582

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7; 3226.3; 28-APR-2010 15:07:27; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;42664
8; 3838.2; 28-APR-2010 15:17:39; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;42664
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3; 2560.4; 28-APR-2010 16:36:57; Bright; 37.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 74; 0;42665
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5; 2779.4; 28-APR-2010 16:40:36; Bright; 39.5; 39; 85Eta UMA ; 1.85; 24000;occ; 79; 0;42665

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13; 5484.1; 28-APR-2010 17:25:41; Dark ; 50.0; 142; 49Del Cap ; 2.85; 8900;occ; 100; 0;42665
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4; 2560.7; 28-APR-2010 18:17:34; Bright; 35.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 71; 0;42666
5; 2653.0; 28-APR-2010 18:19:06; Bright; 43.5; 180; 27Gam Boo ; 3.04; 8000;occ; 87; 0;42666
6; 2779.0; 28-APR-2010 18:21:12; Bright; 39.0; 39; 85Eta UMa ; 1.85; 24000;occ; 78; 0;42666
7; 2860.1; 28-APR-2010 18:22:33; Bright; 37.0; 32; 77Eps UMa ; 1.76; 11000;occ; 74; 0;42666
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9; 3838.4; 28-APR-2010 18:38:51; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;42666
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13; 5485.1; 28-APR-2010 19:06:18; Dark ; 50.0; 142; 49Del Cap ; 2.85; 8900;occ; 100; 0;42666
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16; 6194.9; 28-APR-2010 19:18:08; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;42667
17; 6650.3; 28-APR-2010 19:25:43; Dark ; 46.0; 141; Bet Ara ; 2.84; 4600;occ; 92; 0;42667
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4; 2560.5; 28-APR-2010 19:58:10; Bright; 36.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 72; 0;42667
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6; 2779.0; 28-APR-2010 20:01:48; Bright; 38.5; 39; 85Eta UMa ; 1.85; 24000;occ; 77; 0;42667
7; 2860.3; 28-APR-2010 20:03:09; Bright; 36.5; 32; 77Eps UMa ; 1.76; 11000;occ; 73; 0;42667
8; 3226.0; 28-APR-2010 20:09:15; Bright; 55.0; 60; 7Bet UMi ; 2.08; 3950;occ; 110; 0;42667
9; 3837.9; 28-APR-2010 20:19:27; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;42667
10; 4502.9; 28-APR-2010 20:30:32; Bright; 46.0; 164; 44Eta Peg ; 2.95; 5400;occ; 92; 0;42667
11; 4763.7; 28-APR-2010 20:34:53; Dark ; 44.0; 90; 54Alp Peg ; 2.49; 11000;occ; 88; 0;42667
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13; 5485.7; 28-APR-2010 20:46:55; Dark ; 48.5; 142; 49Del Cap ; 2.85; 8900;occ; 97; 0;42667
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13; 3836.9; 29-APR-2010 01:21:14; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;42670
14; 4503.5; 29-APR-2010 01:32:20; Bright; 47.5; 164; 44Eta Peg ; 2.95; 5400;occ; 95; 0;42670
15; 4764.3; 29-APR-2010 01:36:41; Dark ; 44.5; 90; 54Alp Peg ; 2.49; 11000;occ; 89; 0;42670
16; 5154.8; 29-APR-2010 01:43:11; Dark ; 50.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 101; 0;42670

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3;	-260.6;	29-APR-2010	01:53:32;	Dark	;	41.0;	172;	Gam Gru	;	3.00;	13100;	occ;	82;	0;	42670
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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;	9Alp2Lib	;	2.75;	9700;	occ;	92;	0;	42671
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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
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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
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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
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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;	9Alp2Lib	;	2.75;	9700;	occ;	93;	0;	42672
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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;	9Alp2Lib	;	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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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;	9Alp2Lib	;	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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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
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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
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19; 4768.3; 29-APR-2010 23:24:32; Dark ; 43.0; 90; 54Alp Peg ; 2.49; 11000;occ; 86; 0;42683
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21; 5164.5; 29-APR-2010 23:31:08; Dark ; 55.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 110; 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
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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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2; 2470.5; 29-APR-2010 07:40:51; Bright; 49.0; 83; ; 2.38; 11000;occ; 98; 0;42674
3; 2649.0; 29-APR-2010 07:43:50; Bright; 42.5; 180; 27Gam Boo ; 3.04; 8000;occ; 85; 0;42674
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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2; 2469.9; 29-APR-2010 09:21:26; Bright; 44.0; 83; ; 2.38; 11000;occ; 88; 0;42675
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
7; 3836.2; 29-APR-2010 09:44:13; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;42675
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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 12; 5653.4; 29-APR-2010 10:14:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42675  
 13; 5778.6; 29-APR-2010 10:16:35; Dark ; 41.5; 172; Gam Gru ; 3.00; 13100;occ; 83; 0;42675  
 14; 6200.3; 29-APR-2010 10:23:37; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;42676  
 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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 5; 2853.8; 29-APR-2010 11:08:26; Bright; 39.0; 55; 79Zet UMa ; 2.06; 10200;occ; 78; 0;42676  
 6; 3224.0; 29-APR-2010 11:14:36; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;42676  
 7; 3835.4; 29-APR-2010 11:24:48; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;42676  
 8; 4504.6; 29-APR-2010 11:35:57; Bright; 43.5; 164; 44Eta Peg ; 2.95; 5400;occ; 87; 0;42676  
 9; 4766.2; 29-APR-2010 11:40:18; Dark ; 45.5; 90; 54Alp Peg ; 2.49; 11000;occ; 91; 0;42676  
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 11; 5494.0; 29-APR-2010 11:52:26; Dark ; 49.0; 142; 49Del Cap ; 2.85; 8900;occ; 98; 0;42676  
 12; 5654.5; 29-APR-2010 11:55:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42676  
 13; 5779.3; 29-APR-2010 11:57:12; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;42676  
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 4; 2776.1; 29-APR-2010 12:47:44; Bright; 35.5; 39; 85Eta UMa ; 1.85; 24000;occ; 71; 0;42677  
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 9; 4766.8; 29-APR-2010 13:20:55; Dark ; 44.0; 90; 54Alp Peg ; 2.49; 11000;occ; 88; 0;42677  
 10; 5159.9; 29-APR-2010 13:27:28; Dark ; 52.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 104; 0;42677  
 11; 5495.2; 29-APR-2010 13:33:03; Dark ; 48.5; 142; 49Del Cap ; 2.85; 8900;occ; 97; 0;42677  
 12; 5655.1; 29-APR-2010 13:35:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42677  
 13; 5779.8; 29-APR-2010 13:37:48; Dark ; 40.0; 172; Gam Gru ; 3.00; 13100;occ; 80; 0;42677  
 14; 6202.1; 29-APR-2010 13:44:50; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;42678  
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 17; 7158.8; 29-APR-2010 14:00:47; Dark ; 39.0; 81; Eta Cen ; 2.36; 28000;occ; 78; 0;42678  
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 3; 2468.5; 29-APR-2010 14:23:13; Bright; 47.5; 83; ; 2.38; 11000;occ; 95; 0;42678  
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 5; 2776.0; 29-APR-2010 14:28:20; Bright; 39.0; 39; 85Eta UMa ; 1.85; 24000;occ; 78; 0;42678  
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 3; 831.9; 29-APR-2010 17:17:08; Dark ; 61.0; 25; 35Lam Sco ; 1.62; 28000;occ; 122; 0;42680  
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3; 1588.2; 29-APR-2010 17:29:44; Bright; 47.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 95; 0;42680
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5; 2237.3; 29-APR-2010 17:40:33; Bright; 40.0; 111; 8Eta Boo ; 2.68; 6000;occ; 80; 0;42680
6; 2467.1; 29-APR-2010 17:44:23; Bright; 67.0; 83; ; 2.38; 11000;occ; 134; 0;42680
7; 2646.0; 29-APR-2010 17:47:22; Bright; 43.0; 180; 27Gam Boo ; 3.04; 8000;occ; 86; 0;42680
8; 2775.3; 29-APR-2010 17:49:31; Bright; 39.5; 39; 85Eta UMa ; 1.85; 24000;occ; 79; 0;42680
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7; 2639.3; 30-APR-2010 17:15:38; Bright; 42.5; 180; 27Gam Boo ; 3.04; 8000;occ; 85; 0;42694
8; 2771.9; 30-APR-2010 17:17:51; Bright; 39.5; 39; 85Eta UMa ; 1.85; 24000;occ; 79; 0;42694
9; 3214.8; 30-APR-2010 17:25:14; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;42694
10; 3830.5; 30-APR-2010 17:35:30; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;42694
11; 4142.4; 30-APR-2010 17:40:42; Bright; 42.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 84; 0;42694
12; 4507.3; 30-APR-2010 17:46:46; Bright; 46.0; 164; 44Eta Peg ; 2.95; 5400;occ; 92; 0;42694
13; 4771.9; 30-APR-2010 17:51:11; Dark ; 46.5; 90; 54Alp Peg ; 2.49; 11000;occ; 93; 0;42694
14; 5026.7; 30-APR-2010 17:55:26; Dark ; 65.5; 61; 8Eps Peg ; 2.10; 3900;occ; 131; 0;42694
15; 5172.9; 30-APR-2010 17:57:52; Dark ; 56.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 112; 0;42694
16; 5393.3; 30-APR-2010 18:01:32; Dark ; 61.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 122; 0;42694
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19; 6668.1; 30-APR-2010 18:22:47; Dark ; 51.5; 141; Bet Ara ; 2.84; 4600;occ; 103; 0;42695
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21; 6882.5; 30-APR-2010 18:26:22; Dark ; 60.5; 25; 35Lam Sco ; 1.62; 28000;occ; 121; 0;42695
22; 7071.6; 30-APR-2010 18:29:31; Dark ; 15.0; 75; 26Eps Sco ; 2.29; 4250;occ; 30; 0;42695
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