

# GOMOS Daily Report 19-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 04:51:04
Data source version	GOMOS/5.00L04
Start time of products	19APR2010 00:00:51
Stop time of products	19APR2010 23:49:12
Store outputs in DB	Yes
Nb of level 1b prods	108
Nb of prods with errors	0

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

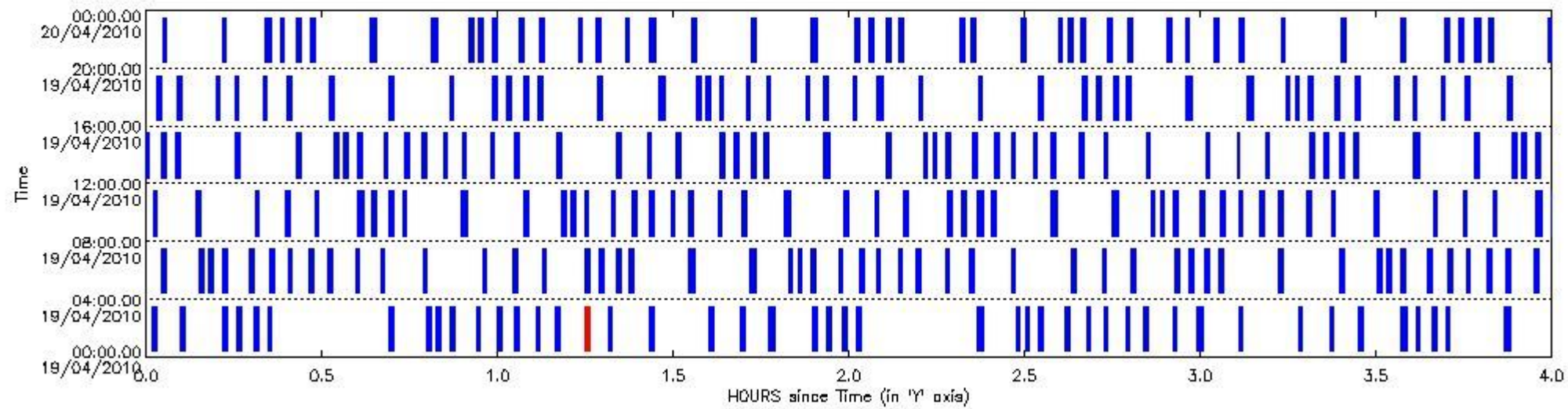
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
19-APR-2010 01:14:46	12Alp2CVn	152	42527

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

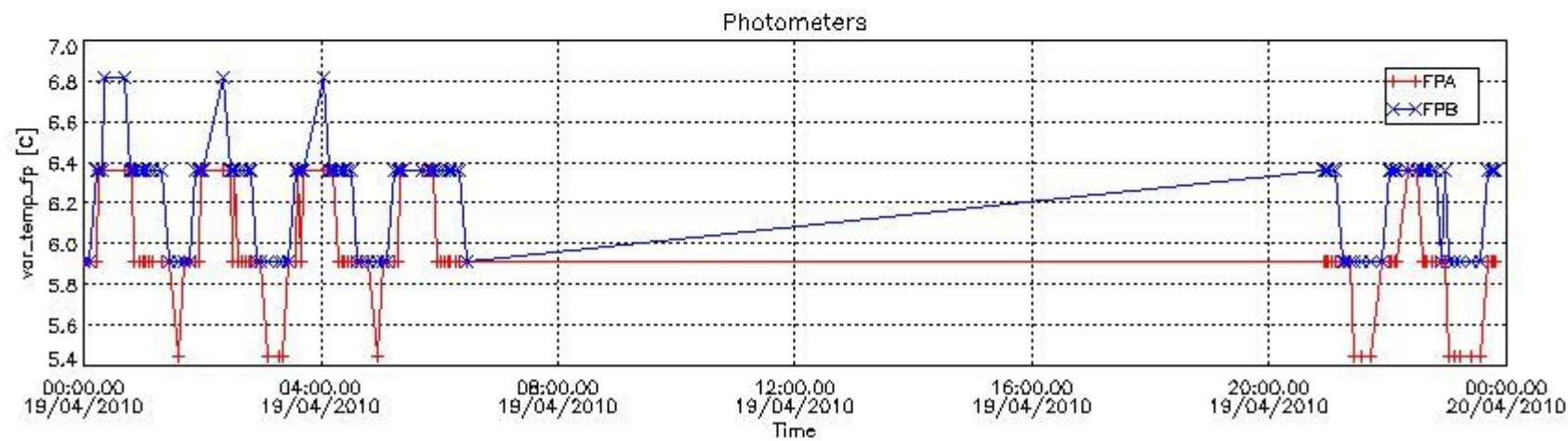
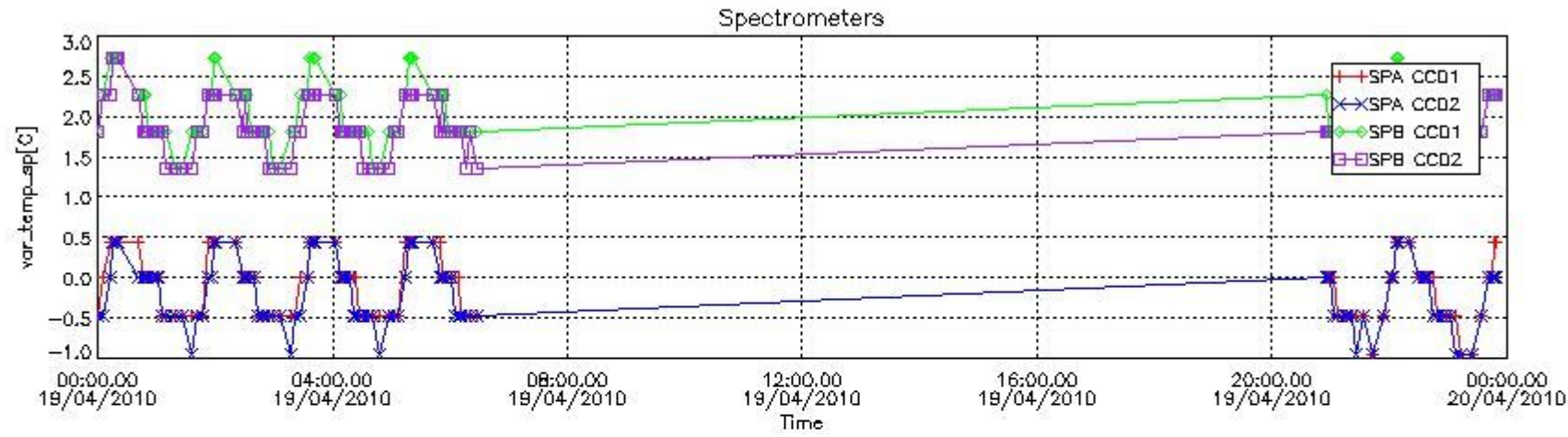
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100419_000051_000000492088_00388_42526_5058.N1	19-APR-2010 00:00:51	Bright	49.000	19	50Alp Cyg	1.2460	10500.	98	42526	No
2	GOM_TRA_1PNPDE20100419_000545_000000552088_00388_42526_5059.N1	19-APR-2010 00:05:45	Bright	55.000	164	44Eta Peg	2.9480	5400.0	110	42526	No
3	GOM_TRA_1PNPDE20100419_001304_000000522088_00388_42526_5060.N1	19-APR-2010 00:13:04	Dark	52.000	61	8Eps Peg	2.1000	3900.0	104	42526	No
4	GOM_TRA_1PNPDE20100419_001532_000000452088_00388_42526_5061.N1	19-APR-2010 00:15:32	Dark	45.000	162	34Alp Aqr	2.9440	5350.0	90	42526	No
5	GOM_TRA_1PNPDE20100419_001819_000000512088_00388_42526_5062.N1	19-APR-2010 00:18:19	Dark	50.500	154	22Bet Aqr	2.8990	5700.0	101	42526	No
6	GOM_TRA_1PNPDE20100419_002039_000000442088_00388_42526_5064.N1	19-APR-2010 00:20:39	Dark	44.000	142	49Del Cap	2.8500	8900.0	88	42526	No
7	GOM_TRA_1PNPDE20100419_004117_000000522088_00389_42527_5065.N1	19-APR-2010 00:41:17	Dark	52.000	40	The Sco	1.8590	7100.0	104	42527	No
8	GOM_TRA_1PNPDE20100419_004752_000000452088_00389_42527_5066.N1	19-APR-2010 00:47:52	Straylight	44.500	78	Alp Lup	2.3040	28000.	89	42527	No
9	GOM_TRA_1PNPDE20100419_004927_000000432088_00389_42527_5067.N1	19-APR-2010 00:49:27	Straylight	43.000	81	Eta Cen	2.3560	28000.	86	42527	No
10	GOM_TRA_1PNPDE20100419_005145_000000482088_00389_42527_5068.N1	19-APR-2010 00:51:45	Straylight	48.000	54	5The Cen	2.0550	4500.0	96	42527	No

11	GOM_TRA_1PNPDE20100419_005621_000000432088_00389_42527_5069.N1	19-APR-2010 00:56:21	Twilight	42.500	169	46Gam Hya	2.9910	4700.0	85	42527	No
12	GOM_TRA_1PNPDE20100419_005954_000000462088_00389_42527_5070.N1	19-APR-2010 00:59:54	Bright	45.500	15	67Alp Vir	0.97600	28000.	91	42527	No
13	GOM_TRA_1PNPDE20100419_010257_000000382088_00389_42527_5071.N1	19-APR-2010 01:02:57	Bright	38.000	121	29Gam Vir	2.7400	7200.0	76	42527	No
14	GOM_TRA_1PNPDE20100419_010636_000000392088_00389_42527_5072.N1	19-APR-2010 01:06:36	Bright	39.000	138	47Eps Vir	2.8280	4700.0	78	42527	No
15	GOM_TRA_1PNPDE20100419_010943_000000482088_00389_42527_5073.N1	19-APR-2010 01:09:43	Bright	48.000	111	8Eta Boo	2.6800	6000.0	96	42527	No
16	GOM_TRA_1PNPDE20100419_011847_000000392088_00389_42527_5074.N1	19-APR-2010 01:18:47	Bright	38.500	39	85Eta UMa	1.8540	24000.	77	42527	No
17	GOM_TRA_1PNPDE20100419_012559_000000422088_00389_42527_5075.N1	19-APR-2010 01:25:59	Bright	42.000	60	7Bet UMi	2.0810	3950.0	84	42527	No
18	GOM_TRA_1PNPDE20100419_013610_000000382088_00389_42527_5076.N1	19-APR-2010 01:36:10	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	42527	No
19	GOM_TRA_1PNPDE20100419_014127_000000492088_00389_42527_5077.N1	19-APR-2010 01:41:27	Bright	49.000	19	50Alp Cyg	1.2460	10500.	98	42527	No
20	GOM_TRA_1PNPDE20100419_014621_000000512088_00389_42527_5078.N1	19-APR-2010 01:46:21	Bright	50.500	164	44Eta Peg	2.9480	5400.0	101	42527	No
21	GOM_TRA_1PNPDE20100419_015340_000000532088_00389_42527_5079.N1	19-APR-2010 01:53:40	Dark	53.000	61	8Eps Peg	2.1000	3900.0	106	42527	No
22	GOM_TRA_1PNPDE20100419_015608_000000442088_00389_42527_5080.N1	19-APR-2010 01:56:08	Dark	43.500	162	34Alp Aqr	2.9440	5350.0	87	42527	No
23	GOM_TRA_1PNPDE20100419_015856_000000482088_00389_42527_5081.N1	19-APR-2010 01:58:56	Dark	48.000	154	22Bet Aqr	2.8990	5700.0	96	42527	No
24	GOM_TRA_1PNPDE20100419_020116_000000462088_00389_42527_5082.N1	19-APR-2010 02:01:16	Dark	46.000	142	49Del Cap	2.8500	8900.0	92	42527	No
25	GOM_TRA_1PNPDE20100419_022154_000000642088_00390_42528_5083.N1	19-APR-2010 02:21:54	Dark	63.500	40	The Sco	1.8590	7100.0	127	42528	No
26	GOM_TRA_1PNPDE20100419_022828_000000412088_00390_42528_5084.N1	19-APR-2010 02:28:28	Straylight	40.500	78	Alp Lup	2.3040	28000.	81	42528	No
27	GOM_TRA_1PNPDE20100419_023003_000000422088_00390_42528_5085.N1	19-APR-2010 02:30:03	Straylight	41.500	81	Eta Cen	2.3560	28000.	83	42528	No
28	GOM_TRA_1PNPDE20100419_023221_000000462088_00390_42528_5086.N1	19-APR-2010 02:32:21	Straylight	46.000	54	5The Cen	2.0550	4500.0	92	42528	No
29	GOM_TRA_1PNPDE20100419_023657_000000412088_00390_42528_5087.N1	19-APR-2010 02:36:57	Twilight	41.000	169	46Gam Hya	2.9910	4700.0	82	42528	No
30	GOM_TRA_1PNPDE20100419_024030_000000442088_00390_42528_5088.N1	19-APR-2010 02:40:30	Bright	43.500	15	67Alp Vir	0.97600	28000.	87	42528	No
31	GOM_TRA_1PNPDE20100419_024332_000000382088_00390_42528_5089.N1	19-APR-2010 02:43:32	Bright	37.500	121	29Gam Vir	2.7400	7200.0	75	42528	No
32	GOM_TRA_1PNPDE20100419_024712_000000392088_00390_42528_5090.N1	19-APR-2010 02:47:12	Bright	39.000	138	47Eps Vir	2.8280	4700.0	78	42528	No
33	GOM_TRA_1PNPDE20100419_025019_000000472088_00390_42528_5091.N1	19-APR-2010 02:50:19	Bright	47.000	111	8Eta Boo	2.6800	6000.0	94	42528	No
34	GOM_TRA_1PNPDE20100419_025513_000000372088_00390_42528_5092.N1	19-APR-2010 02:55:13	Bright	36.500	152	12Alp2CVn	2.8900	11000.	73	42528	No
35	GOM_TRA_1PNPDE20100419_025923_000000602088_00390_42528_5093.N1	19-APR-2010 02:59:23	Bright	60.000	39	85Eta UMa	1.8540	24000.	120	42528	No
36	GOM_TRA_1PNPDE20100419_030635_000000402088_00390_42528_5094.N1	19-APR-2010 03:06:35	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	42528	No
37	GOM_TRA_1PNPDE20100419_031645_000000412088_00390_42528_5111.N1	19-APR-2010 03:16:45	Bright	41.000	89	5Alp Cep	2.4510	8000.0	82	42528	No
38	GOM_TRA_1PNPDE20100419_032202_000000432088_00390_42528_5112.N1	19-APR-2010 03:22:02	Bright	43.000	19	50Alp Cyg	1.2460	10500.	86	42528	No
39	GOM_TRA_1PNPDE20100419_032657_000000442088_00390_42528_5113.N1	19-APR-2010 03:26:57	Bright	43.500	164	44Eta Peg	2.9480	5400.0	87	42528	No
40	GOM_TRA_1PNPDE20100419_033417_000000522088_00390_42528_5114.N1	19-APR-2010 03:34:17	Dark	52.000	61	8Eps Peg	2.1000	3900.0	104	42528	No
41	GOM_TRA_1PNPDE20100419_033645_000000472088_00390_42528_5115.N1	19-APR-2010 03:36:45	Dark	47.000	162	34Alp Aqr	2.9440	5350.0	94	42528	No
42	GOM_TRA_1PNPDE20100419_033933_000000502088_00390_42528_5116.N1	19-APR-2010 03:39:33	Dark	49.500	154	22Bet Aqr	2.8990	5700.0	99	42528	No
43	GOM_TRA_1PNPDE20100419_034153_000000442088_00390_42528_5117.N1	19-APR-2010 03:41:53	Dark	44.000	142	49Del Cap	2.8500	8900.0	88	42528	No
44	GOM_TRA_1PNPDE20100419_040231_000000572088_00391_42529_5118.N1	19-APR-2010 04:02:31	Dark	57.000	40	The Sco	1.8590	7100.0	114	42529	No
45	GOM_TRA_1PNPDE20100419_040905_000000432088_00391_42529_5119.N1	19-APR-2010 04:09:05	Straylight	42.500	78	Alp Lup	2.3040	28000.	85	42529	No
46	GOM_TRA_1PNPDE20100419_041040_000000432088_00391_42529_5120.N1	19-APR-2010 04:10:40	Straylight	43.000	81	Eta Cen	2.3560	28000.	86	42529	No
47	GOM_TRA_1PNPDE20100419_041258_000000472088_00391_42529_5121.N1	19-APR-2010 04:12:58	Straylight	47.000	54	5The Cen	2.0550	4500.0	94	42529	No
48	GOM_TRA_1PNPDE20100419_041734_000000452088_00391_42529_5122.N1	19-APR-2010 04:17:34	Twilight	44.500	169	46Gam Hya	2.9910	4700.0	89	42529	No
49	GOM_TRA_1PNPDE20100419_042106_000000422088_00391_42529_5123.N1	19-APR-2010 04:21:06	Bright	41.500	15	67Alp Vir	0.97600	28000.	83	42529	No
50	GOM_TRA_1PNPDE20100419_042409_000000392088_00391_42529_5124.N1	19-APR-2010 04:24:09	Bright	38.500	121	29Gam Vir	2.7400	7200.0	77	42529	No
51	GOM_TRA_1PNPDE20100419_042748_000000402088_00391_42529_5125.N1	19-APR-2010 04:27:48	Bright	39.500	138	47Eps Vir	2.8280	4700.0	79	42529	No
52	GOM_TRA_1PNPDE20100419_043055_000000442088_00391_42529_5126.N1	19-APR-2010 04:30:55	Bright	44.000	111	8Eta Boo	2.6800	6000.0	88	42529	No
53	GOM_TRA_1PNPDE20100419_043549_000000382088_00391_42529_5127.N1	19-APR-2010 04:35:49	Bright	37.500	152	12Alp2CVn	2.8900	11000.	75	42529	No
54	GOM_TRA_1PNPDE20100419_043958_000000432088_00391_42529_5128.N1	19-APR-2010 04:39:58	Bright	42.500	39	85Eta UMa	1.8540	24000.	85	42529	No
55	GOM_TRA_1PNPDE20100419_044711_000000422088_00391_42529_5129.N1	19-APR-2010 04:47:11	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	42529	No
56	GOM_TRA_1PNPDE20100419_045721_000000412088_00391_42529_5137.N1	19-APR-2010 04:57:21	Bright	41.000	89	5Alp Cep	2.4510	8000.0	82	42529	No
57	GOM_TRA_1PNPDE20100419_050238_000000432088_00391_42529_5138.N1	19-APR-2010 05:02:38	Bright	43.000	19	50Alp Cyg	1.2460	10500.	86	42529	No
58	GOM_TRA_1PNPDE20100419_050733_000000472088_00391_42529_5139.N1	19-APR-2010 05:07:33	Bright	46.500	164	44Eta Peg	2.9480	5400.0	93	42529	No
59	GOM_TRA_1PNPDE20100419_051454_000000532088_00391_42529_5140.N1	19-APR-2010 05:14:54	Dark	52.500	61	8Eps Peg	2.1000	3900.0	105	42529	No
60	GOM_TRA_1PNPDE20100419_051721_000000462088_00391_42529_5141.N1	19-APR-2010 05:17:21	Dark	45.500	162	34Alp Aqr	2.9440	5350.0	91	42529	No
61	GOM_TRA_1PNPDE20100419_052009_000000502088_00391_42529_5142.N1	19-APR-2010 05:20:09	Dark	50.000	154	22Bet Aqr	2.8990	5700.0	100	42529	No
62	GOM_TRA_1PNPDE20100419_052229_000000472088_00391_42529_5143.N1	19-APR-2010 05:22:29	Dark	47.000	142	49Del Cap	2.8500	8900.0	94	42529	No
63	GOM_TRA_1PNPDE20100419_054308_000000642088_00392_42530_5144.N1	19-APR-2010 05:43:08	Dark	64.000	40	The Sco	1.8590	7100.0	128	42530	No
64	GOM_TRA_1PNPDE20100419_054941_000000432088_00392_42530_5145.N1	19-APR-2010 05:49:41	Straylight	42.500	78	Alp Lup	2.3040	28000.	85	42530	No
65	GOM_TRA_1PNPDE20100419_055116_000000432088_00392_42530_5146.N1	19-APR-2010 05:51:16	Straylight	42.500	81	Eta Cen	2.3560	28000.	85	42530	No
66	GOM_TRA_1PNPDE20100419_055334_000000492088_00392_42530_5147.N1	19-APR-2010 05:53:34	Straylight	49.000	54	5The Cen	2.0550	4500.0	98	42530	No
67	GOM_TRA_1PNPDE20100419_055810_000000422088_00392_42530_5148.N1	19-APR-2010 05:58:10	Twilight	42.000	169	46Gam Hya	2.9910	4700.0	84	42530	No
68	GOM_TRA_1PNPDE20100419_060143_000000452088_00392_42530_5149.N1	19-APR-2010 06:01:43	Bright	44.500	15	67Alp Vir	0.97600	28000.	89	42530	No
69	GOM_TRA_1PNPDE20100419_060445_000000392088_00392_42530_5150.N1	19-APR-2010 06:04:45	Bright	38.500	121	29Gam Vir	2.7400	7200.0	77	42530	No

70	GOM_TRA_1PNPDE20100419_060824_000000392088_00392_42530_5151.N1	19-APR-2010 06:08:24	Bright	38.500	138	47Eps Vir	2.8280	4700.0	77	42530	No
71	GOM_TRA_1PNPDE20100419_061130_000000472088_00392_42530_5152.N1	19-APR-2010 06:11:30	Bright	47.000	111	8Eta Boo	2.6800	6000.0	94	42530	No
72	GOM_TRA_1PNPDE20100419_061625_000000362088_00392_42530_5153.N1	19-APR-2010 06:16:25	Bright	36.000	152	12Alp2CVn	2.8900	11000.	72	42530	No
73	GOM_TRA_1PNPDE20100419_062034_000000422088_00392_42530_5154.N1	19-APR-2010 06:20:34	Bright	42.000	39	85Eta UMa	1.8540	24000.	84	42530	No
74	GOM_TRA_1PNPDE20100419_062747_000000392088_00392_42530_5155.N1	19-APR-2010 06:27:47	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	42530	No
75	GOM_TRA_1PNPDE20100419_205508_000000432088_00401_42539_5259.N1	19-APR-2010 20:55:08	Straylight	43.000	78	Alp Lup	2.3040	28000.	86	42539	No
76	GOM_TRA_1PNPDE20100419_205643_000000442088_00401_42539_5260.N1	19-APR-2010 20:56:43	Straylight	44.000	81	Eta Cen	2.3560	28000.	88	42539	No
77	GOM_TRA_1PNPDE20100419_205900_000000482088_00401_42539_5261.N1	19-APR-2010 20:59:00	Straylight	48.000	54	5The Cen	2.0550	4500.0	96	42539	No
78	GOM_TRA_1PNPDE20100419_210335_000000452088_00401_42539_5262.N1	19-APR-2010 21:03:35	Twilight_stray	44.500	169	46Gam Hya	2.9910	4700.0	89	42539	No
79	GOM_TRA_1PNPDE20100419_210706_000000442088_00401_42539_5263.N1	19-APR-2010 21:07:06	Bright	44.000	15	67Alp Vir	0.97600	28000.	88	42539	No
80	GOM_TRA_1PNPDE20100419_211347_000000392088_00401_42539_5264.N1	19-APR-2010 21:13:47	Bright	38.500	138	47Eps Vir	2.8280	4700.0	77	42539	No
81	GOM_TRA_1PNPDE20100419_211650_000000452088_00401_42539_5265.N1	19-APR-2010 21:16:50	Bright	45.000	111	8Eta Boo	2.6800	6000.0	90	42539	No
82	GOM_TRA_1PNPDE20100419_212146_000000382088_00401_42539_5266.N1	19-APR-2010 21:21:46	Bright	38.000	152	12Alp2CVn	2.8900	11000.	76	42539	No
83	GOM_TRA_1PNPDE20100419_212553_000000592088_00401_42539_5267.N1	19-APR-2010 21:25:53	Bright	59.000	39	85Eta UMa	1.8540	24000.	118	42539	No
84	GOM_TRA_1PNPDE20100419_213308_000000402088_00401_42539_5268.N1	19-APR-2010 21:33:08	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	42539	No
85	GOM_TRA_1PNPDE20100419_214319_000000422088_00401_42539_5269.N1	19-APR-2010 21:43:19	Bright	42.000	89	5Alp Cep	2.4510	8000.0	84	42539	No
86	GOM_TRA_1PNPDE20100419_215334_000000552088_00401_42539_5270.N1	19-APR-2010 21:53:34	Bright	55.000	164	44Eta Peg	2.9480	5400.0	110	42539	No
87	GOM_TRA_1PNPDE20100419_220058_000000532088_00401_42539_5271.N1	19-APR-2010 22:00:58	Dark	53.000	61	8Eps Peg	2.1000	3900.0	106	42539	No
88	GOM_TRA_1PNPDE20100419_220326_000000462088_00401_42539_5272.N1	19-APR-2010 22:03:26	Dark	46.000	162	34Alp Aqr	2.9440	5350.0	92	42539	No
89	GOM_TRA_1PNPDE20100419_220616_000000502088_00401_42539_5278.N1	19-APR-2010 22:06:16	Dark	50.000	154	22Bet Aqr	2.8990	5700.0	100	42539	No
90	GOM_TRA_1PNPDE20100419_220835_000000472088_00401_42539_5279.N1	19-APR-2010 22:08:35	Dark	47.000	142	49Del Cap	2.8500	8900.0	94	42539	No
91	GOM_TRA_1PNPDE20100419_222049_000000402088_00402_42540_5280.N1	19-APR-2010 22:20:49	Dark	40.000	45	Alp Pav	1.9400	26000.	80	42540	No
92	GOM_TRA_1PNPDE20100419_222918_000000542088_00402_42540_5281.N1	19-APR-2010 22:29:18	Dark	53.500	40	The Sco	1.8590	7100.0	107	42540	No
93	GOM_TRA_1PNPDE20100419_223545_000000422088_00402_42540_5282.N1	19-APR-2010 22:35:45	Straylight	41.500	78	Alp Lup	2.3040	28000.	83	42540	No
94	GOM_TRA_1PNPDE20100419_223720_000000462088_00402_42540_5283.N1	19-APR-2010 22:37:20	Straylight	45.500	81	Eta Cen	2.3560	28000.	91	42540	No
95	GOM_TRA_1PNPDE20100419_223937_000000472088_00402_42540_5284.N1	19-APR-2010 22:39:37	Straylight	47.000	54	5The Cen	2.0550	4500.0	94	42540	No
96	GOM_TRA_1PNPDE20100419_224411_000000422088_00402_42540_5285.N1	19-APR-2010 22:44:11	Twilight_stray	41.500	169	46Gam Hya	2.9910	4700.0	83	42540	No
97	GOM_TRA_1PNPDE20100419_224742_000000432088_00402_42540_5286.N1	19-APR-2010 22:47:42	Bright	43.000	15	67Alp Vir	0.97600	28000.	86	42540	No
98	GOM_TRA_1PNPDE20100419_225422_000000382088_00402_42540_5287.N1	19-APR-2010 22:54:22	Bright	38.000	138	47Eps Vir	2.8280	4700.0	76	42540	No
99	GOM_TRA_1PNPDE20100419_225725_000000442088_00402_42540_5288.N1	19-APR-2010 22:57:25	Bright	44.000	111	8Eta Boo	2.6800	6000.0	88	42540	No
100	GOM_TRA_1PNPDE20100419_230222_000000392088_00402_42540_5289.N1	19-APR-2010 23:02:22	Bright	39.000	152	12Alp2CVn	2.8900	11000.	78	42540	No
101	GOM_TRA_1PNPDE20100419_230628_000000592088_00402_42540_5290.N1	19-APR-2010 23:06:28	Bright	59.000	39	85Eta UMa	1.8540	24000.	118	42540	No
102	GOM_TRA_1PNPDE20100419_231343_000000392088_00402_42540_5291.N1	19-APR-2010 23:13:43	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	42540	No
103	GOM_TRA_1PNPDE20100419_232354_000000582088_00402_42540_5292.N1	19-APR-2010 23:23:54	Bright	58.000	89	5Alp Cep	2.4510	8000.0	116	42540	No
104	GOM_TRA_1PNPDE20100419_233410_000000552088_00402_42540_5293.N1	19-APR-2010 23:34:10	Bright	55.000	164	44Eta Peg	2.9480	5400.0	110	42540	No
105	GOM_TRA_1PNPDE20100419_234134_000000562088_00402_42540_5294.N1	19-APR-2010 23:41:34	Dark	55.500	61	8Eps Peg	2.1000	3900.0	111	42540	No
106	GOM_TRA_1PNPDE20100419_234402_000000492088_00402_42540_5295.N1	19-APR-2010 23:44:02	Dark	48.500	162	34Alp Aqr	2.9440	5350.0	97	42540	No
107	GOM_TRA_1PNPDE20100419_234653_000000532088_00402_42540_5296.N1	19-APR-2010 23:46:53	Dark	52.500	154	22Bet Aqr	2.8990	5700.0	105	42540	No
108	GOM_TRA_1PNPDE20100419_234912_000000452088_00402_42540_5299.N1	19-APR-2010 23:49:12	Dark	44.500	142	49Del Cap	2.8500	8900.0	89	42540	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).

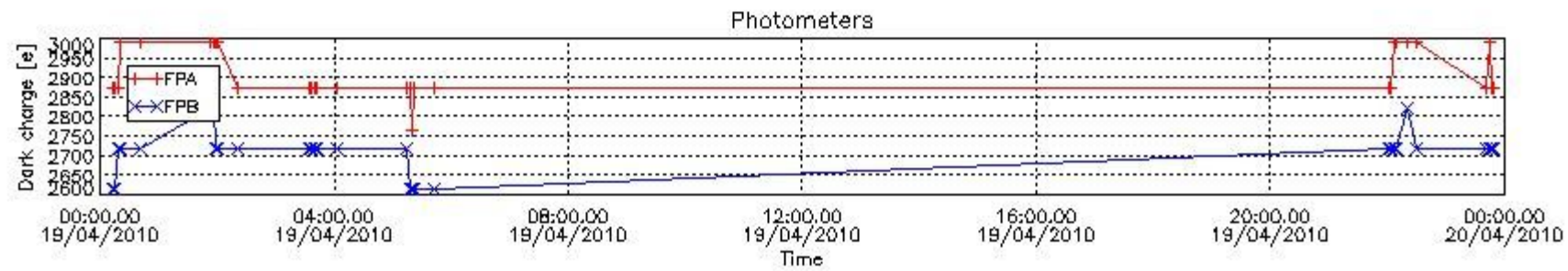
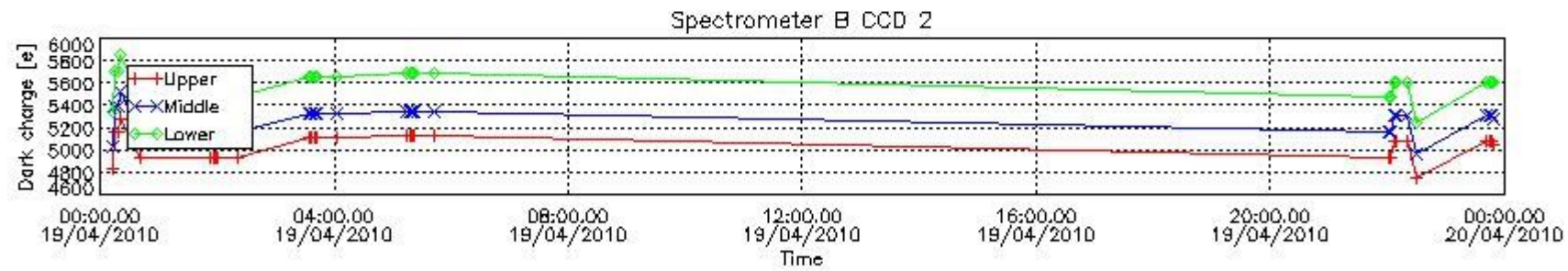
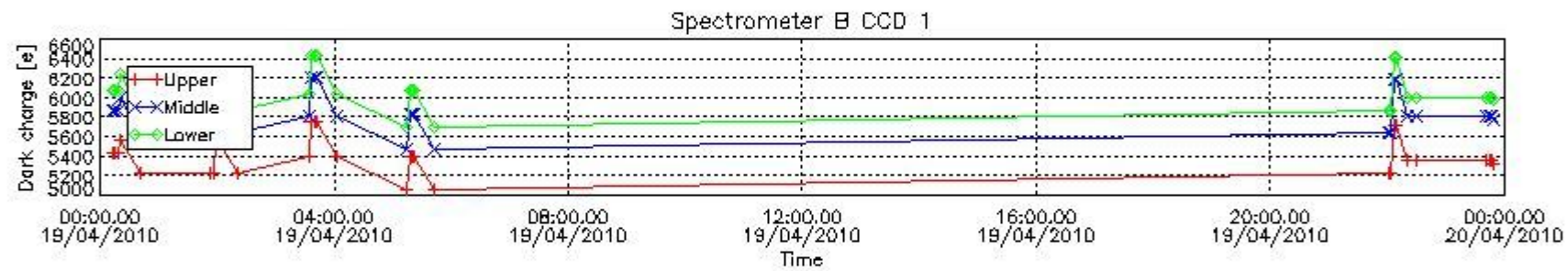
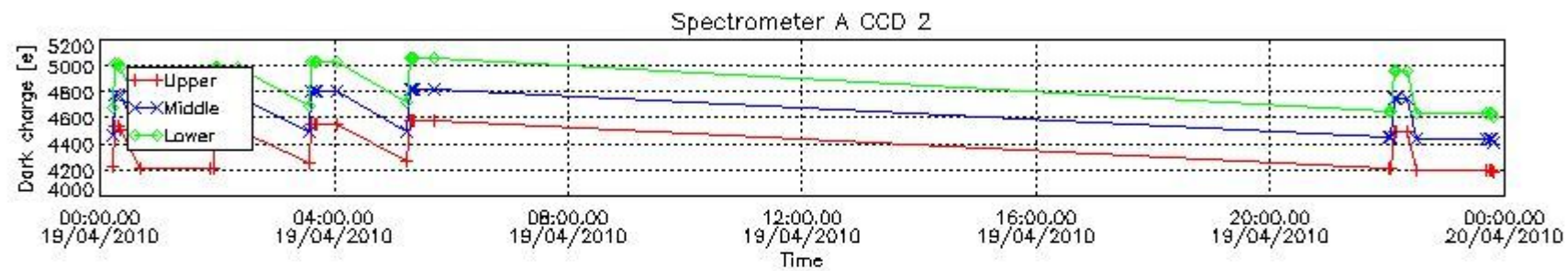
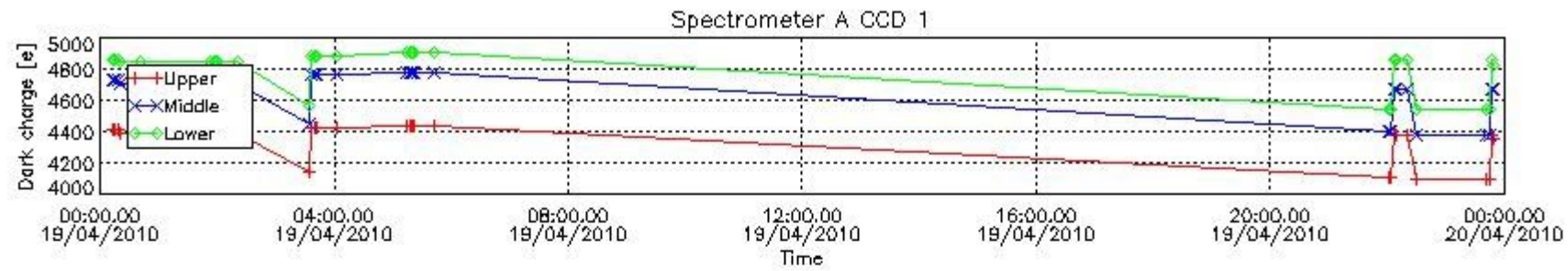
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20100419_002039_000000442088_00388_42526_5064.N1	DC map used
GOM_TRA_1PNPDE20100419_004117_000000522088_00389_42527_5065.N1	DC map used
GOM_TRA_1PNPDE20100419_004752_000000452088_00389_42527_5066.N1	DC map used
GOM_TRA_1PNPDE20100419_004927_000000432088_00389_42527_5067.N1	DC map used
GOM_TRA_1PNPDE20100419_005145_000000482088_00389_42527_5068.N1	DC map used
GOM_TRA_1PNPDE20100419_005621_000000432088_00389_42527_5069.N1	DC map used
GOM_TRA_1PNPDE20100419_005954_000000462088_00389_42527_5070.N1	DC map used
GOM_TRA_1PNPDE20100419_010257_000000382088_00389_42527_5071.N1	DC map used
GOM_TRA_1PNPDE20100419_010636_000000392088_00389_42527_5072.N1	DC map used
GOM_TRA_1PNPDE20100419_010943_000000482088_00389_42527_5073.N1	DC map used
GOM_TRA_1PNPDE20100419_011847_000000392088_00389_42527_5074.N1	DC map used
GOM_TRA_1PNPDE20100419_012559_000000422088_00389_42527_5075.N1	DC map used
GOM_TRA_1PNPDE20100419_013610_000000382088_00389_42527_5076.N1	DC map used
GOM_TRA_1PNPDE20100419_014127_000000492088_00389_42527_5077.N1	DC map used

GOM_TRA_1PNPDE20100419_014621_000000512088_00389_42527_5078.N1	DC map used
GOM_TRA_1PNPDE20100419_015340_000000532088_00389_42527_5079.N1	DC map used
GOM_TRA_1PNPDE20100419_015608_000000442088_00389_42527_5080.N1	DC map used
GOM_TRA_1PNPDE20100419_015856_000000482088_00389_42527_5081.N1	DC map used
GOM_TRA_1PNPDE20100419_020116_000000462088_00389_42527_5082.N1	DC map used
GOM_TRA_1PNPDE20100419_022154_000000642088_00390_42528_5083.N1	DC map used
GOM_TRA_1PNPDE20100419_022828_000000412088_00390_42528_5084.N1	DC map used
GOM_TRA_1PNPDE20100419_023003_000000422088_00390_42528_5085.N1	DC map used
GOM_TRA_1PNPDE20100419_023221_000000462088_00390_42528_5086.N1	DC map used
GOM_TRA_1PNPDE20100419_023657_000000412088_00390_42528_5087.N1	DC map used
GOM_TRA_1PNPDE20100419_024030_000000442088_00390_42528_5088.N1	DC map used
GOM_TRA_1PNPDE20100419_024332_000000382088_00390_42528_5089.N1	DC map used
GOM_TRA_1PNPDE20100419_024712_000000392088_00390_42528_5090.N1	DC map used
GOM_TRA_1PNPDE20100419_025019_000000472088_00390_42528_5091.N1	DC map used
GOM_TRA_1PNPDE20100419_025513_000000372088_00390_42528_5092.N1	DC map used
GOM_TRA_1PNPDE20100419_025923_000000602088_00390_42528_5093.N1	DC map used
GOM_TRA_1PNPDE20100419_030635_000000402088_00390_42528_5094.N1	DC map used
GOM_TRA_1PNPDE20100419_205508_000000432088_00401_42539_5259.N1	DC map used
GOM_TRA_1PNPDE20100419_205643_000000442088_00401_42539_5260.N1	DC map used
GOM_TRA_1PNPDE20100419_205900_000000482088_00401_42539_5261.N1	DC map used
GOM_TRA_1PNPDE20100419_210335_000000452088_00401_42539_5262.N1	DC map used
GOM_TRA_1PNPDE20100419_210706_000000442088_00401_42539_5263.N1	DC map used
GOM_TRA_1PNPDE20100419_211347_000000392088_00401_42539_5264.N1	DC map used
GOM_TRA_1PNPDE20100419_211650_000000452088_00401_42539_5265.N1	DC map used
GOM_TRA_1PNPDE20100419_212146_000000382088_00401_42539_5266.N1	DC map used
GOM_TRA_1PNPDE20100419_212553_000000592088_00401_42539_5267.N1	DC map used
GOM_TRA_1PNPDE20100419_213308_000000402088_00401_42539_5268.N1	DC map used
GOM_TRA_1PNPDE20100419_214319_000000422088_00401_42539_5269.N1	DC map used
GOM_TRA_1PNPDE20100419_215334_000000552088_00401_42539_5270.N1	DC map used
GOM_TRA_1PNPDE20100419_220058_000000532088_00401_42539_5271.N1	DC map used
GOM_TRA_1PNPDE20100419_220326_000000462088_00401_42539_5272.N1	DC map used

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



## 5. Demodulation flag and quality information monitoring

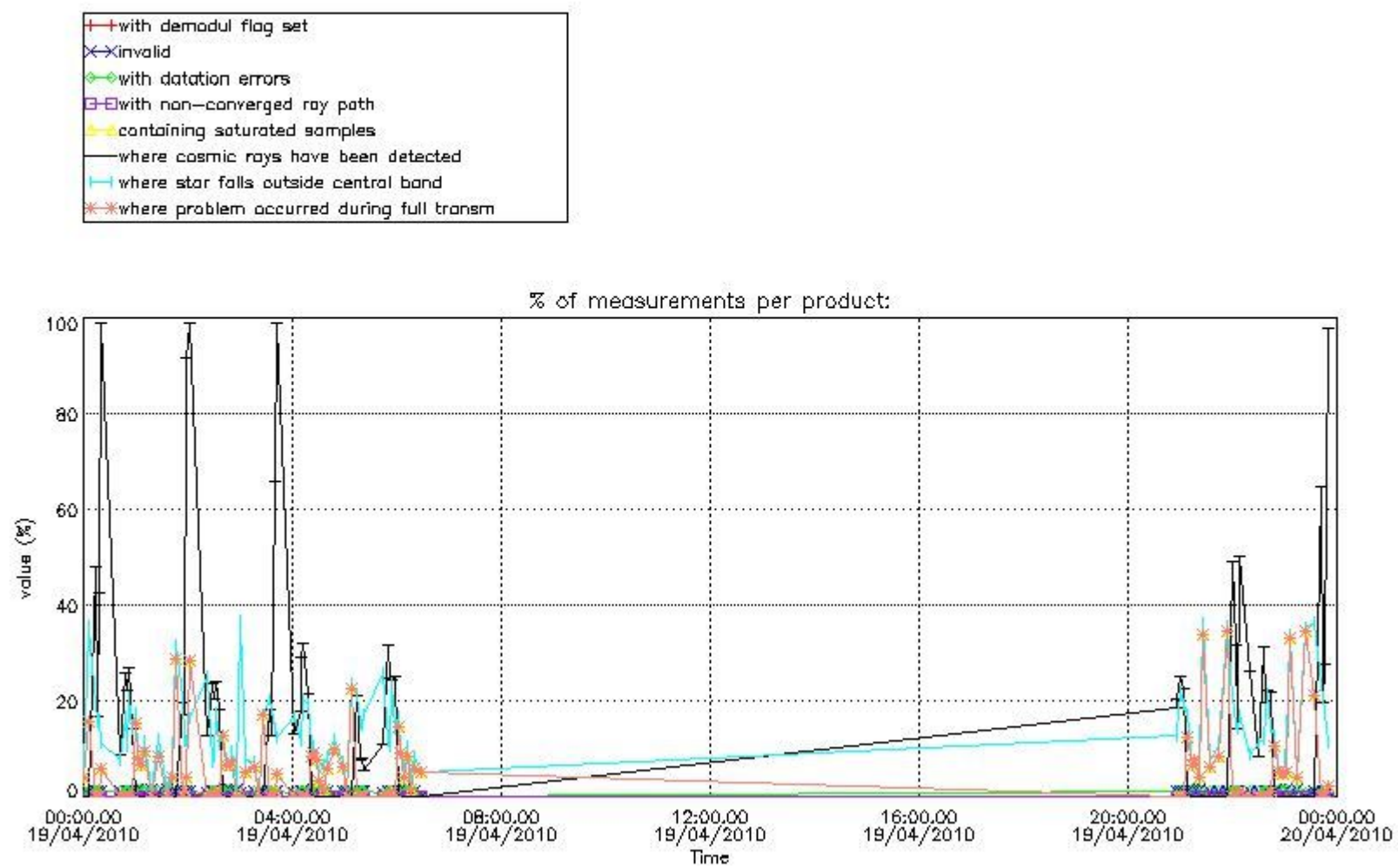
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

### 5.1 Percentage of products during reporting period with:



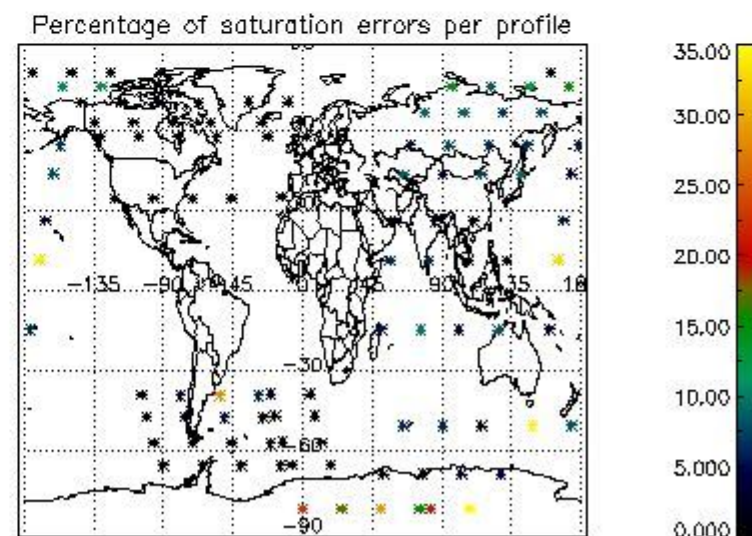
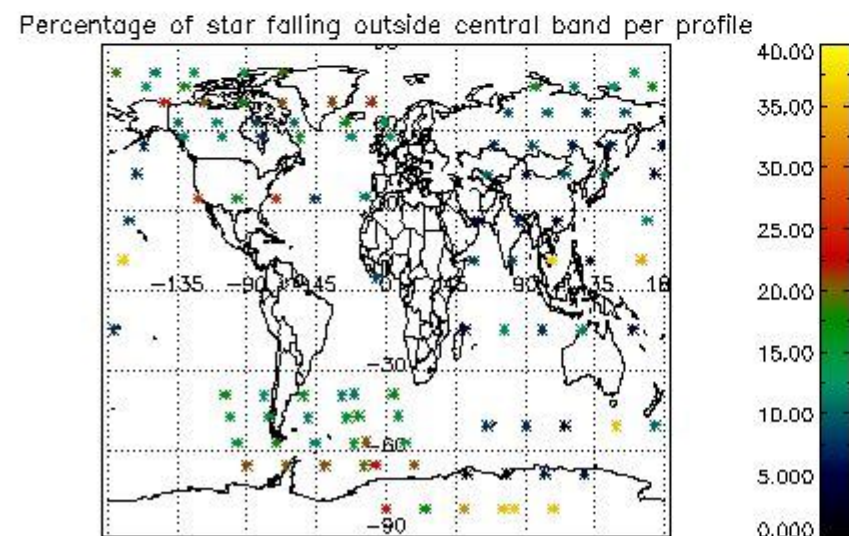
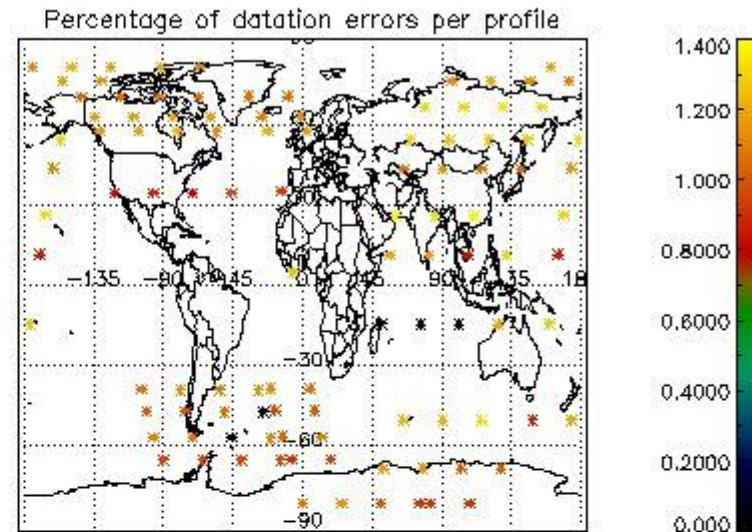
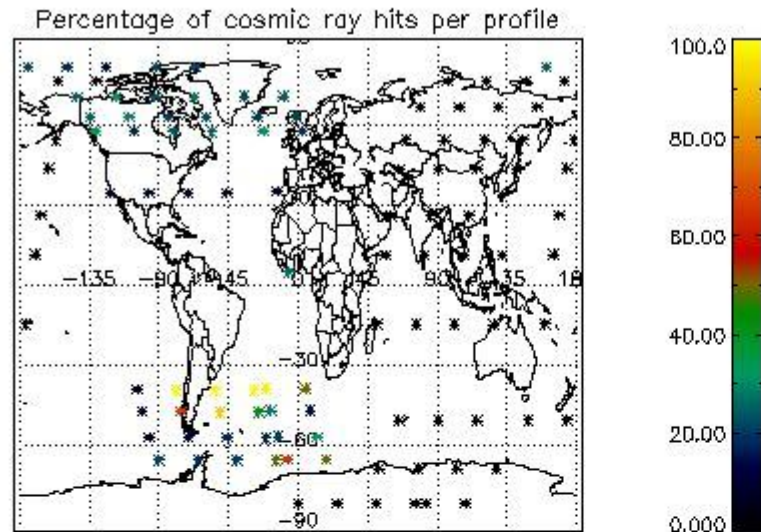
At least one measurement with demodulation flag set:	44.4444 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





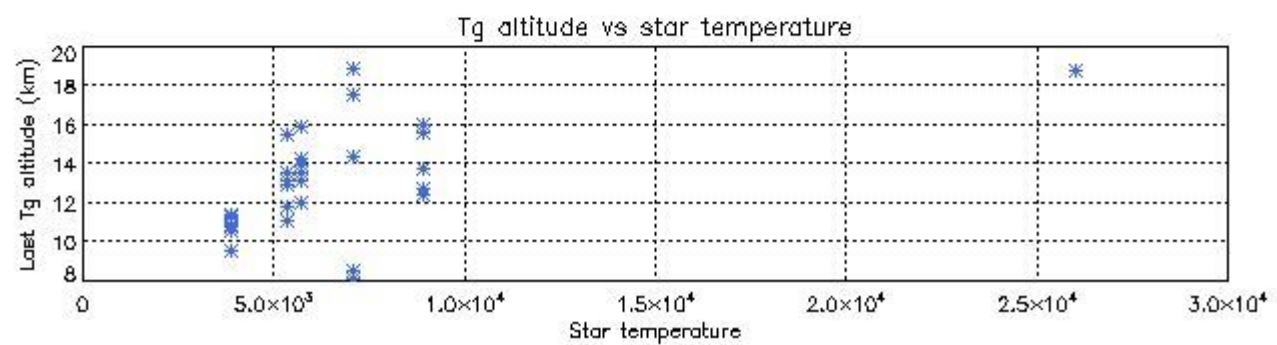
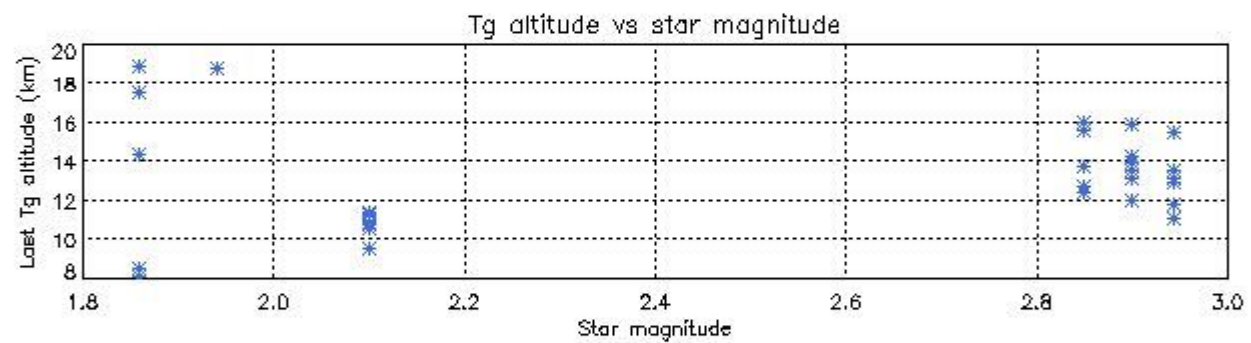
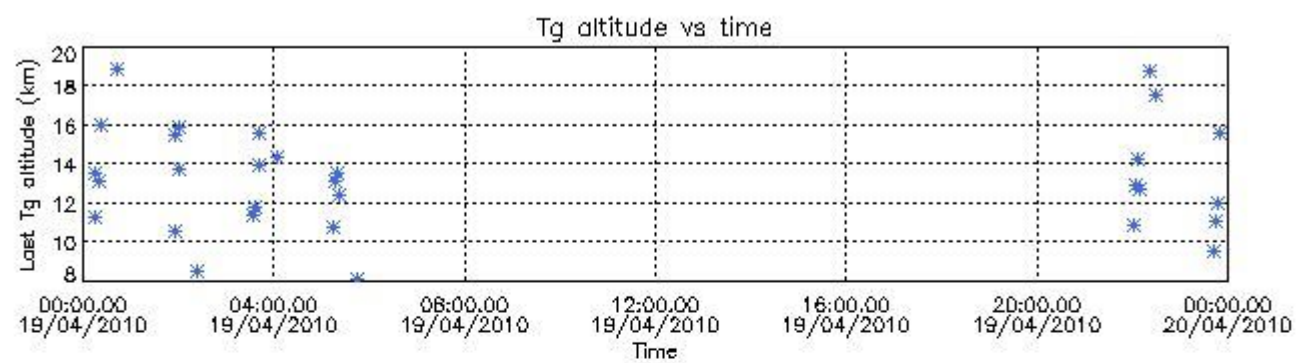
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	13.241	17.166	NaN
St. deviation:	2.7089	6.6389	NaN
Maximum:	18.858	31.109	NaN
Minimum:	8.0711	3.1855	NaN
Number of data:	30.000	54.000	NaN

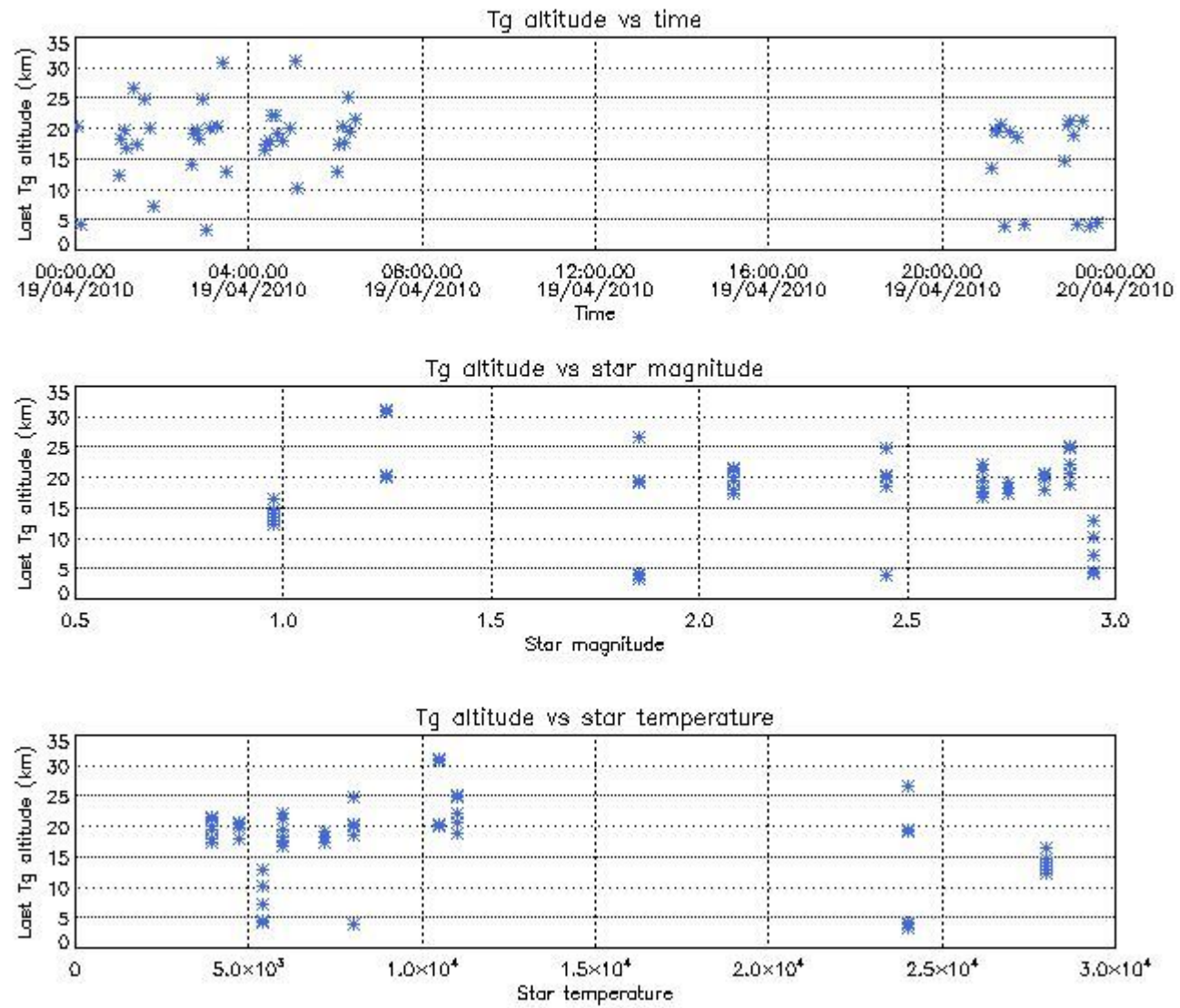
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



### 6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost



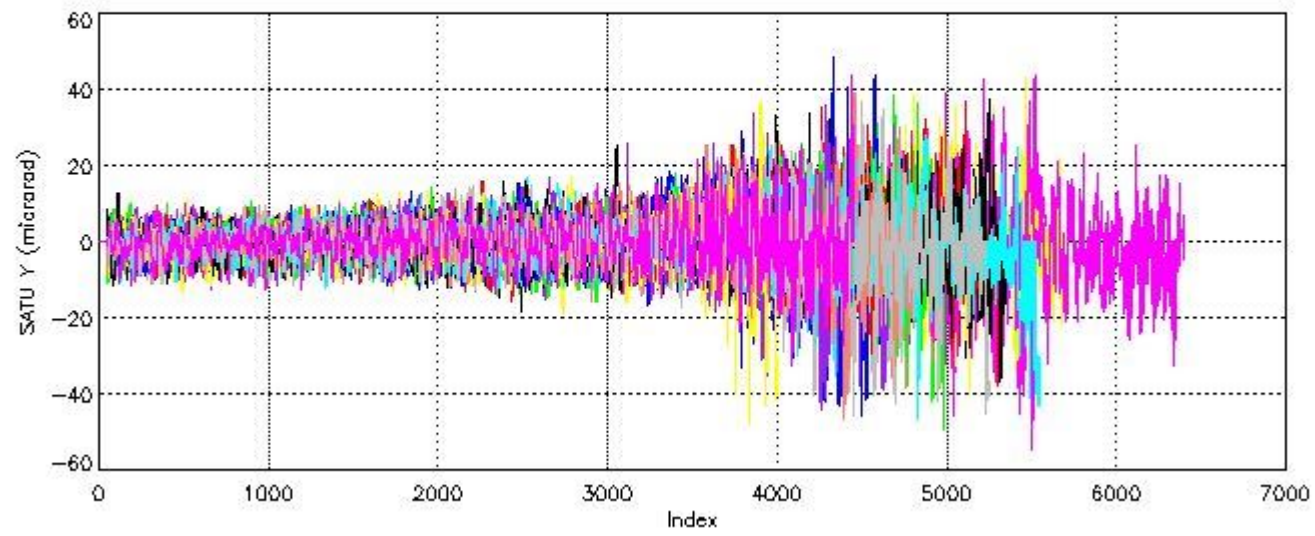
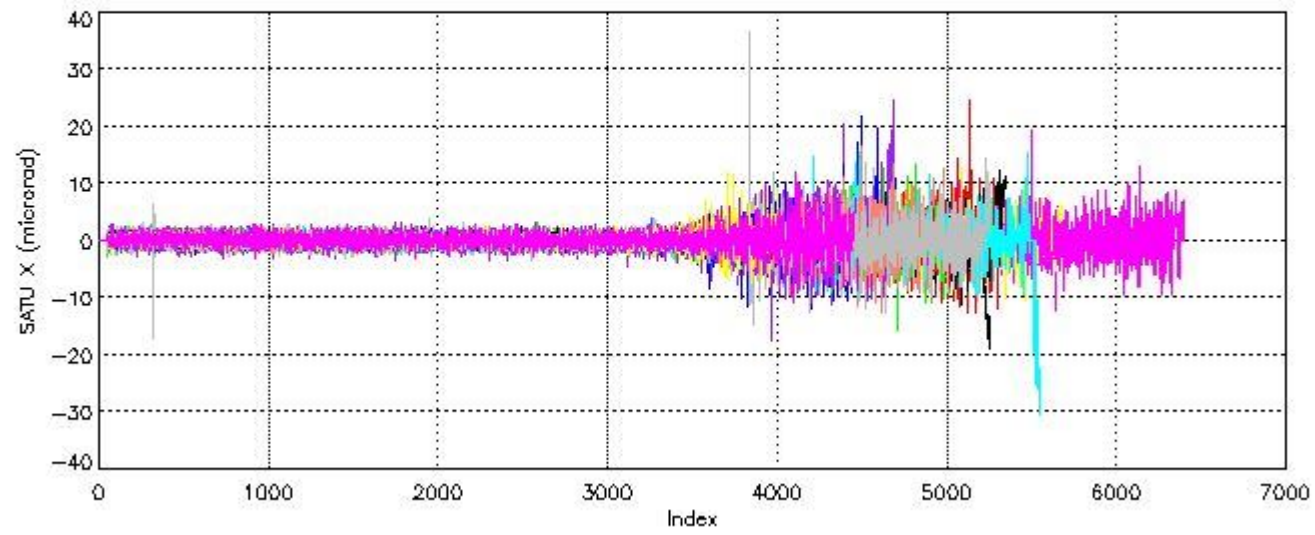
## 7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

### 7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.





## 7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.15473	-0.57273	0.19943	-0.62416
St. deviation:	0.61881	3.2793	0.81035	3.3079
Maximum:	6.4000	12.700	7.7000	12.800
Minimum:	-17.200	-13.600	-5.2000	-18.200



Number of data:	31600.	31600.	51850.	51850.
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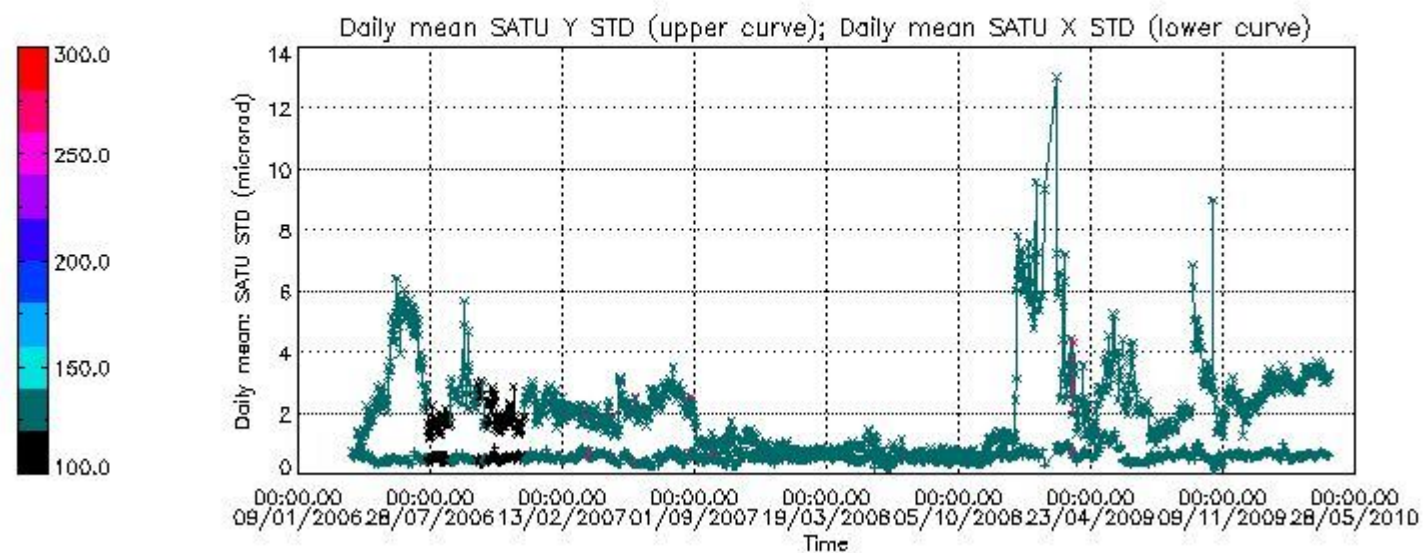
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

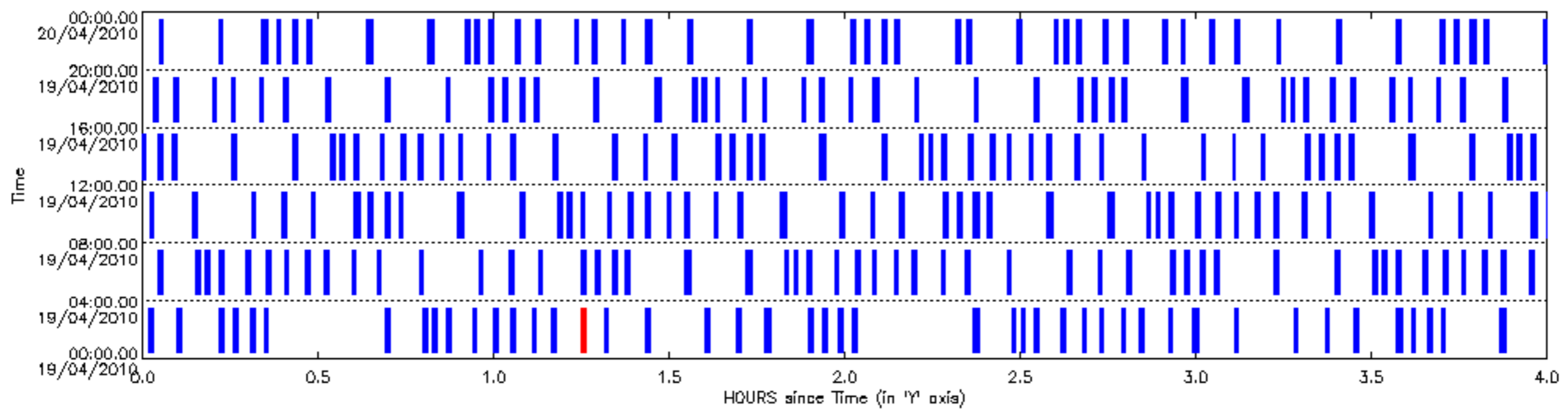
Lower curve: STD of SATU X axis

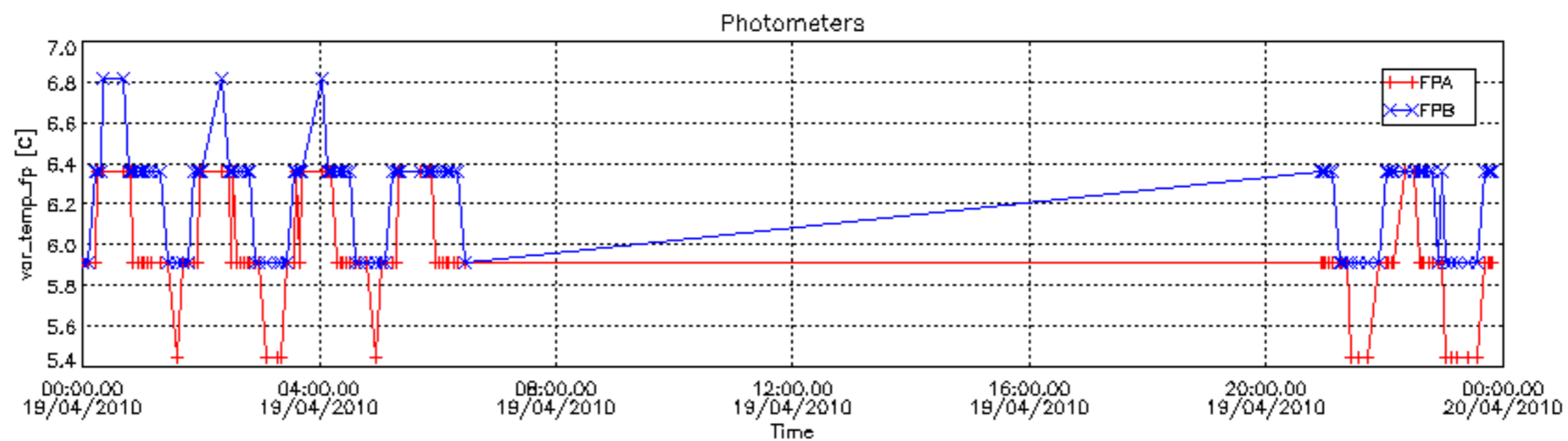
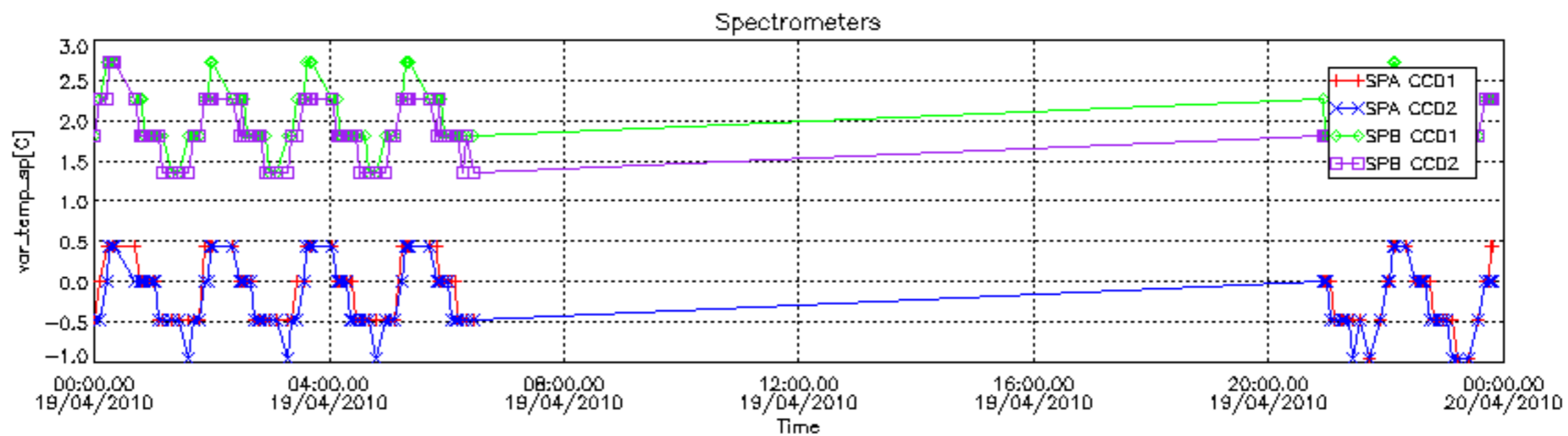


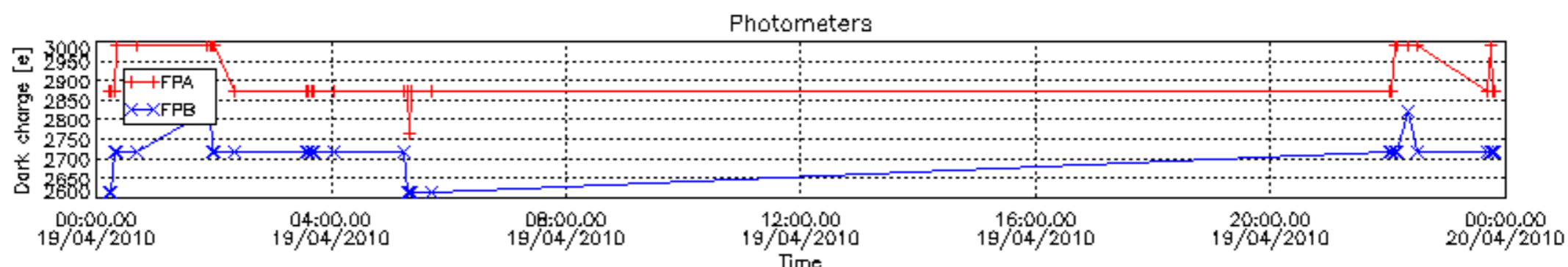
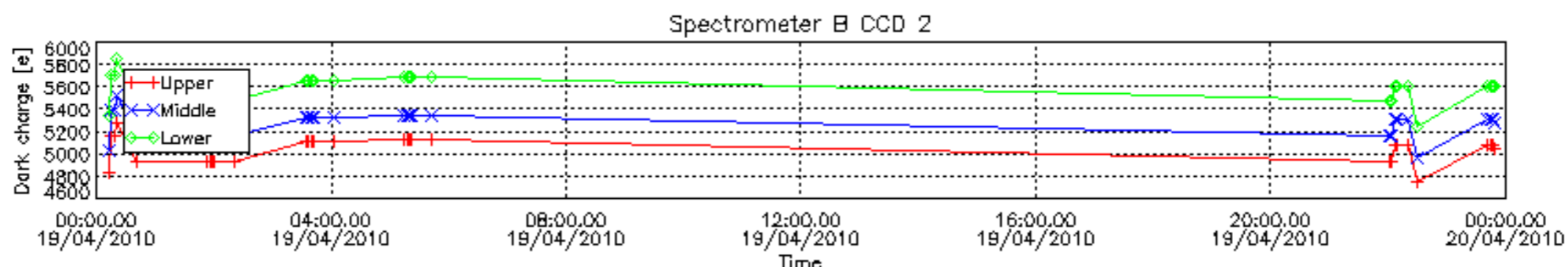
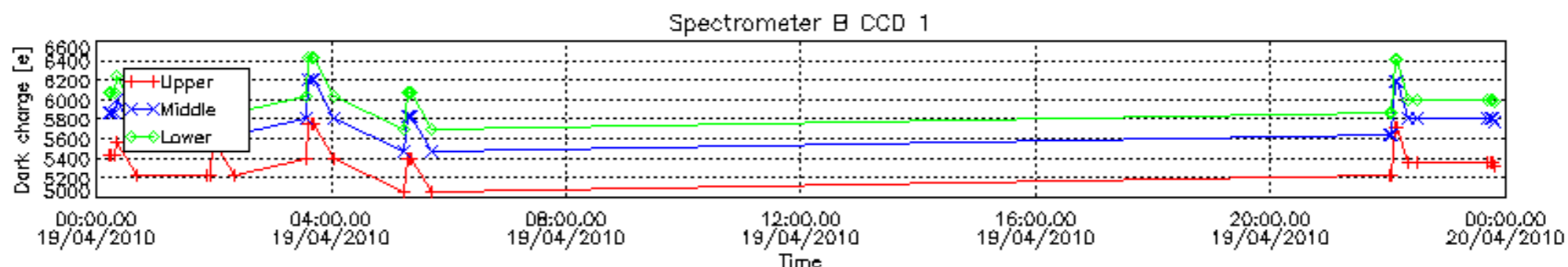
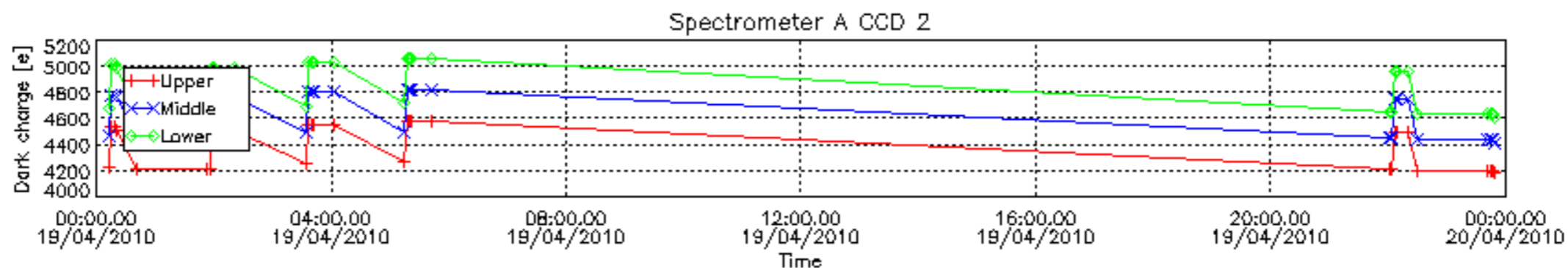
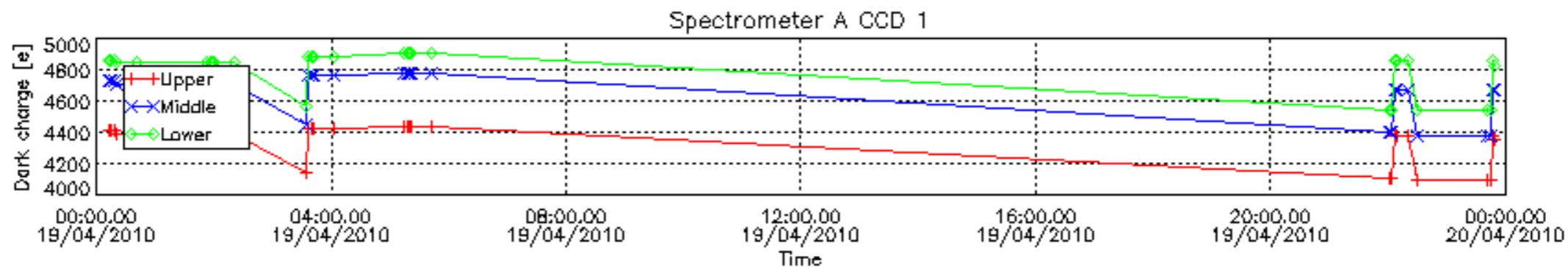
### 8. Auxiliary Data Files used for the production reported in section 2.4

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.

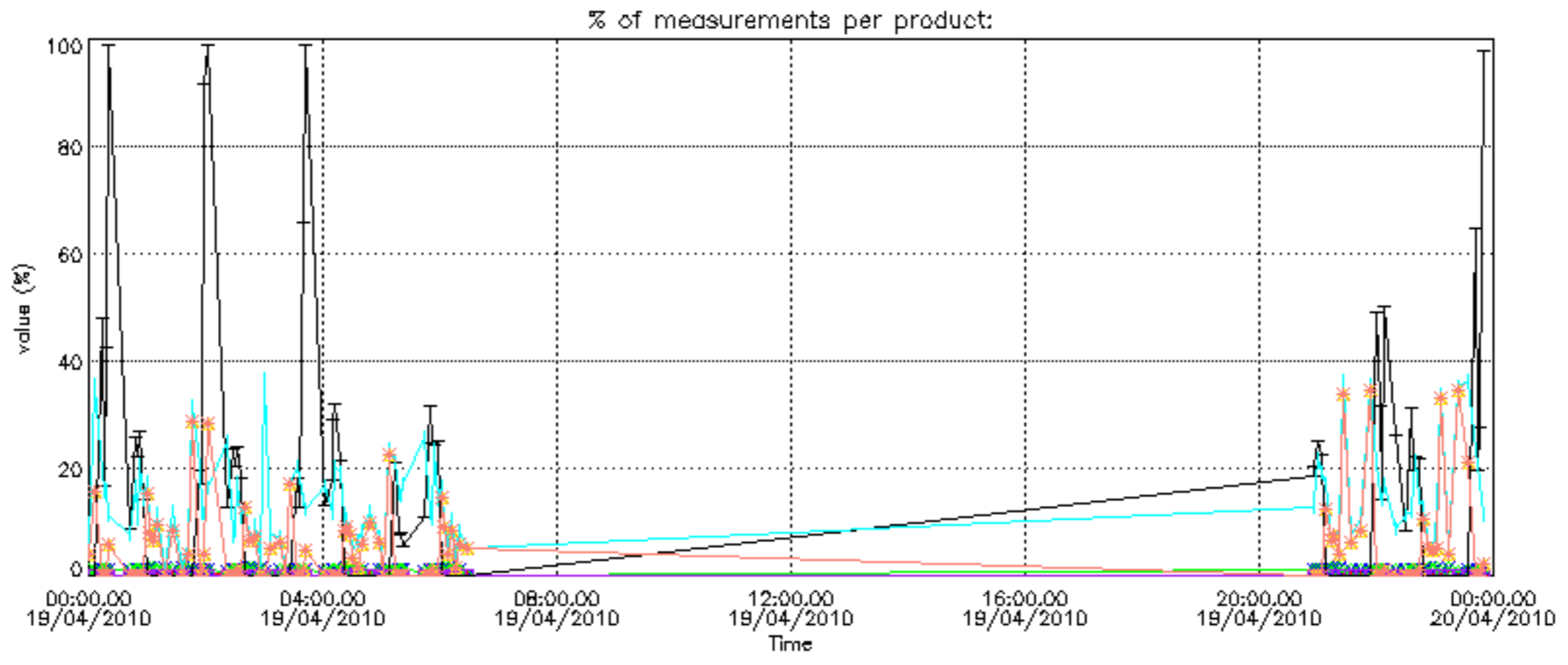
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	19-APR-2010 00:00:51
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100413_150709_20100411_000000_20500101_000000	1	19-APR-2010 00:00:51
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	19-APR-2010 00:00:51
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	19-APR-2010 00:00:51
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	19-APR-2010 00:00:51
ECMWF_FILE	AUX_ECF_AXNECM20100418_054116_20100418_210000_20100419_090000	1	19-APR-2010 00:00:51
ECMWF_FILE	AUX_ECF_AXNECM20100418_172944_20100419_030000_20100419_150000	37	19-APR-2010 03:16:45
ECMWF_FILE	AUX_ECA_AXNECM20100419_052118_20100418_210000_20100419_090000	56	19-APR-2010 04:57:21
ECMWF_FILE	AUX_ECF_AXNECM20100419_052119_20100419_150000_20100420_030000	75	19-APR-2010 20:55:08
ECMWF_FILE	AUX_ECF_AXNECM20100419_052119_20100419_210000_20100420_090000	89	19-APR-2010 22:06:16
OPTIONAL_ECMWF_FILE	MISSING	1	19-APR-2010 00:00:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100418_223809_000057382088_00387_42525_0186.N1	1	19-APR-2010 00:00:51
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100418_100118_20100417_182053_20100427_212742	6	19-APR-2010 00:20:39
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100419_015445_000041442088_00389_42527_0188.N1	23	19-APR-2010 01:58:56
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100419_030908_000057382088_00390_42528_0189.N1	37	19-APR-2010 03:16:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100419_045005_000057382088_00391_42529_0190.N1	56	19-APR-2010 04:57:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100419_205145_000038252088_00401_42539_0191.N1	75	19-APR-2010 20:55:08
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100419_220050_000060572088_00401_42539_0192.N1	89	19-APR-2010 22:06:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100419_234705_000054192088_00402_42540_0193.N1	108	19-APR-2010 23:49:12



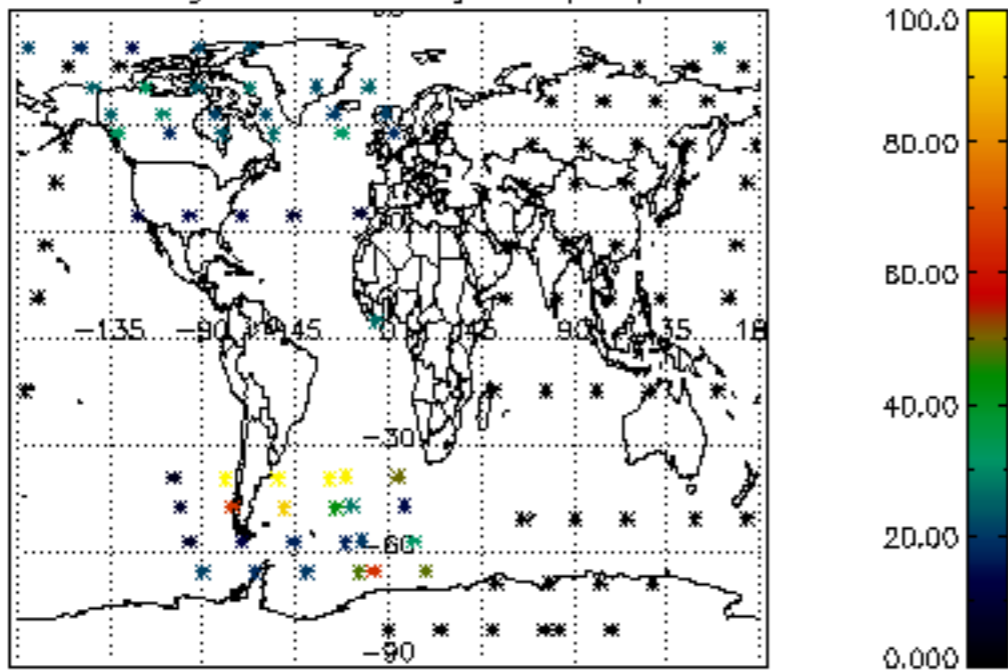




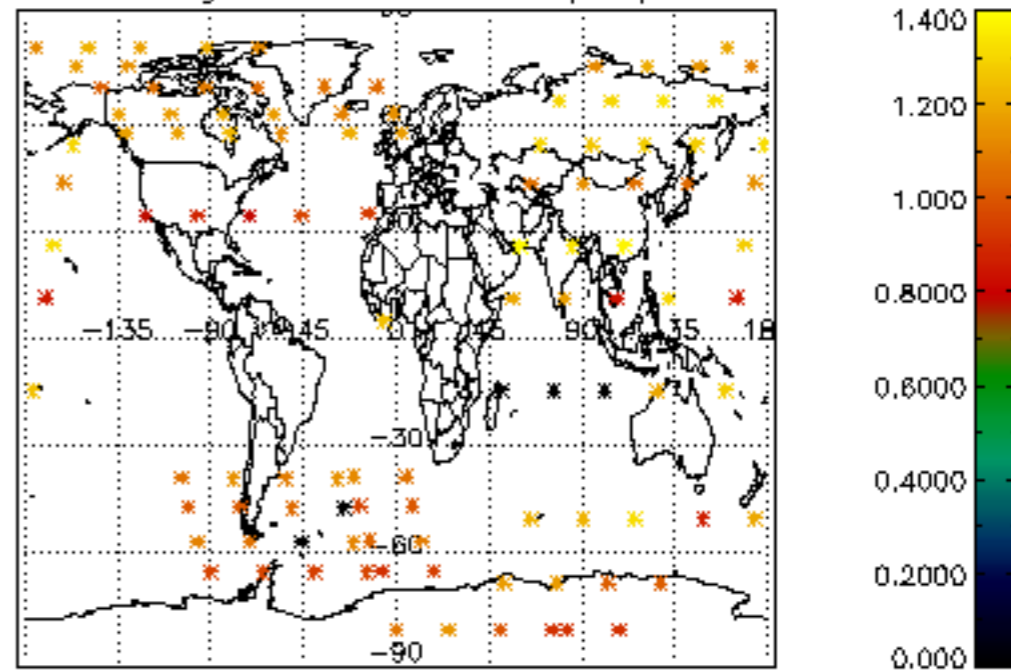




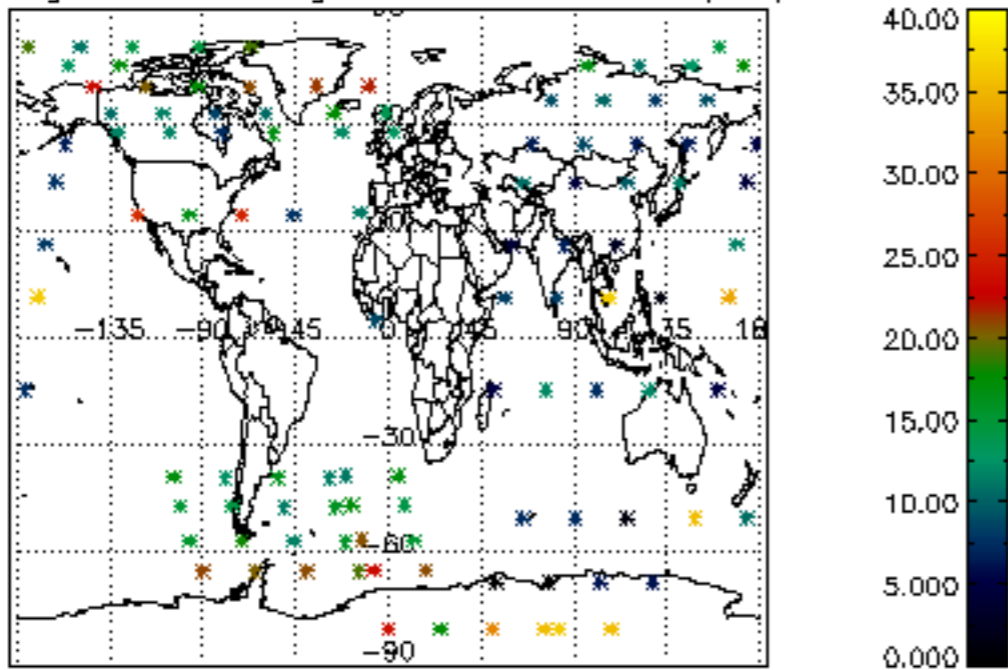
Percentage of cosmic ray hits per profile



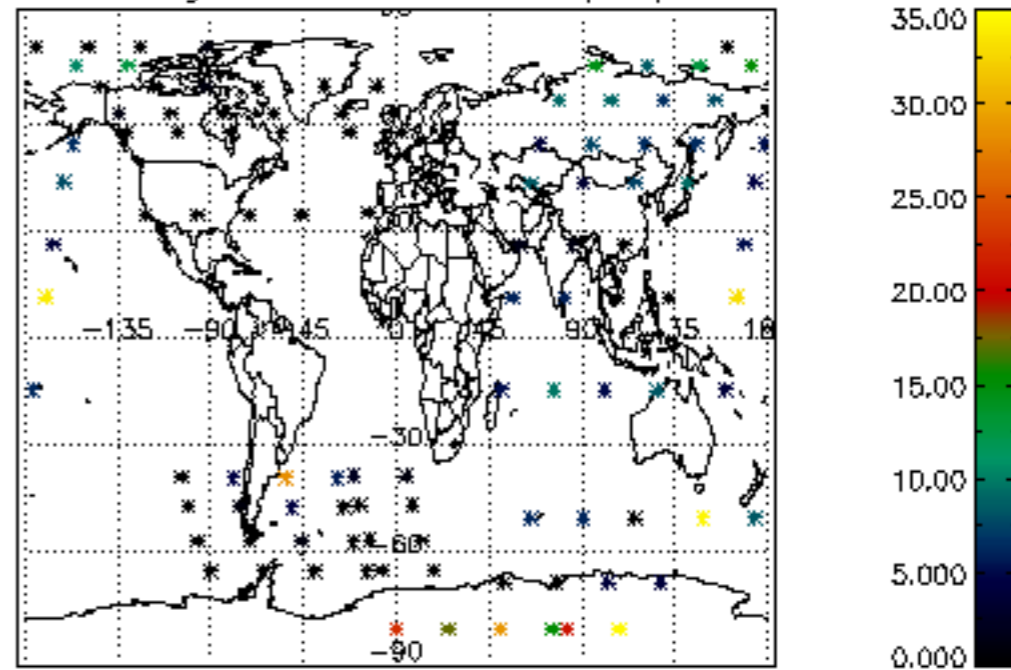
Percentage of datation errors per profile



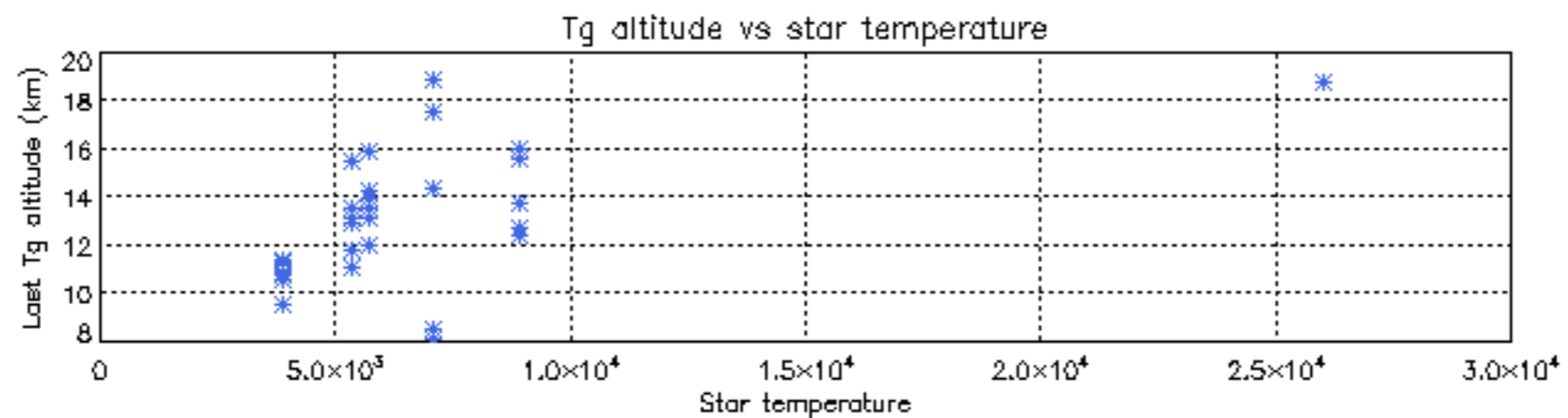
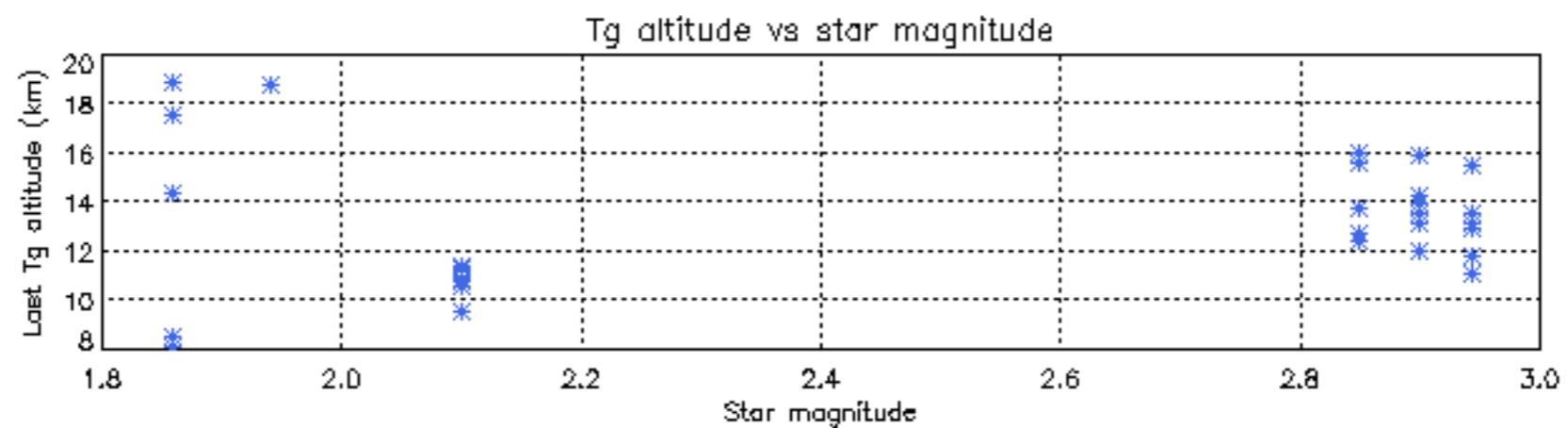
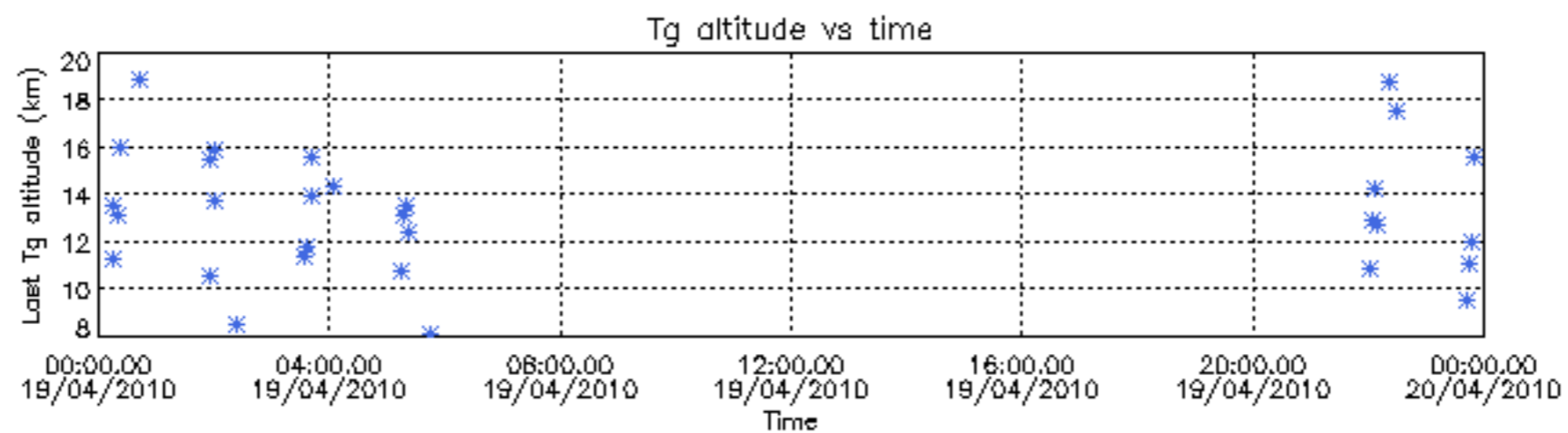
Percentage of star falling outside central band per profile



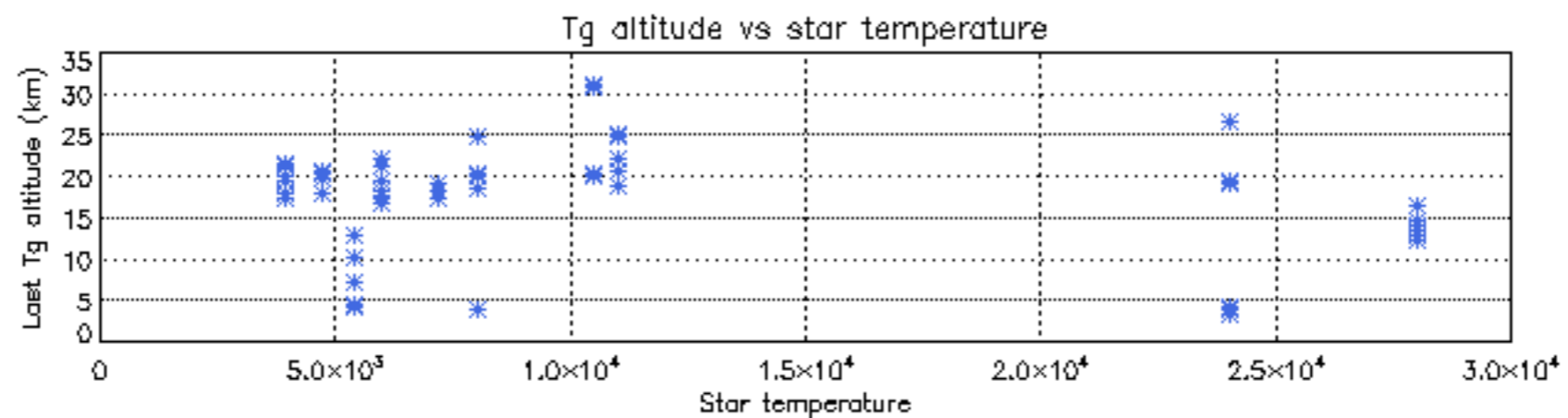
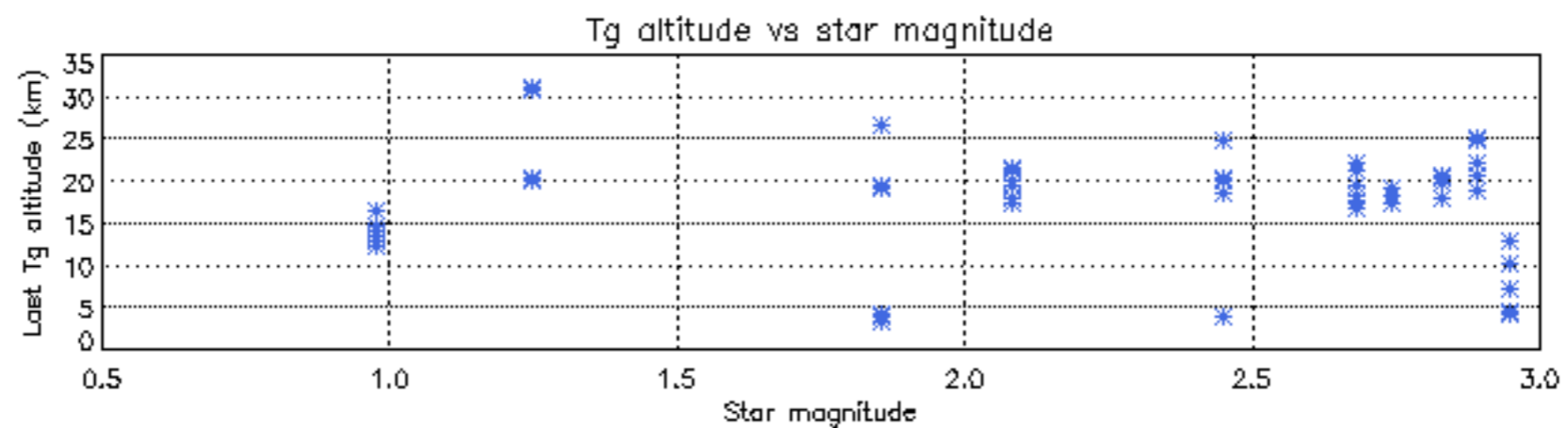
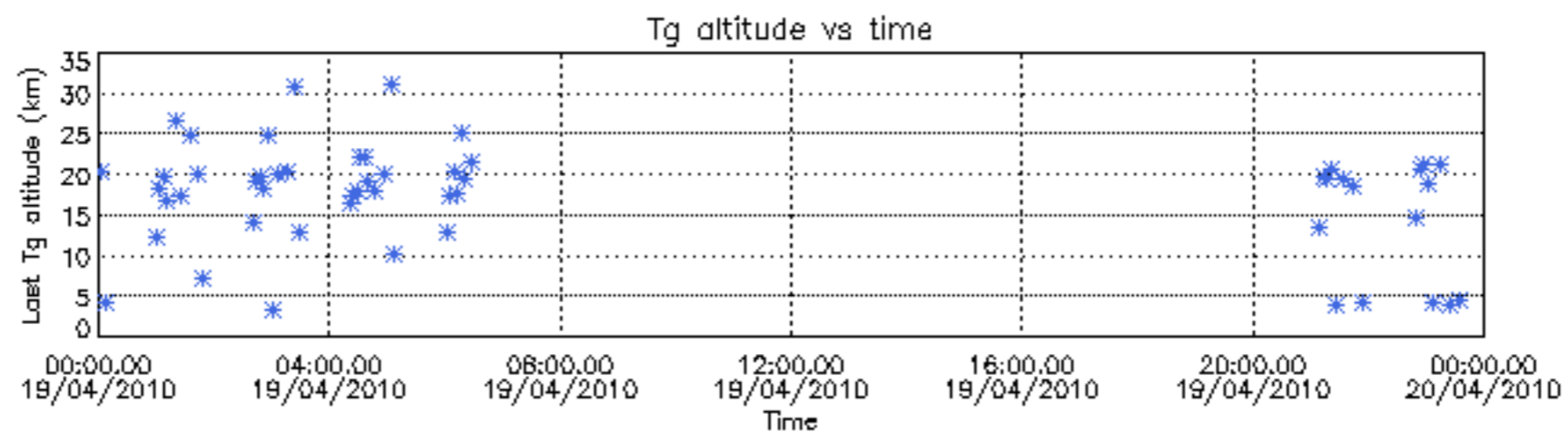
Percentage of saturation errors per profile



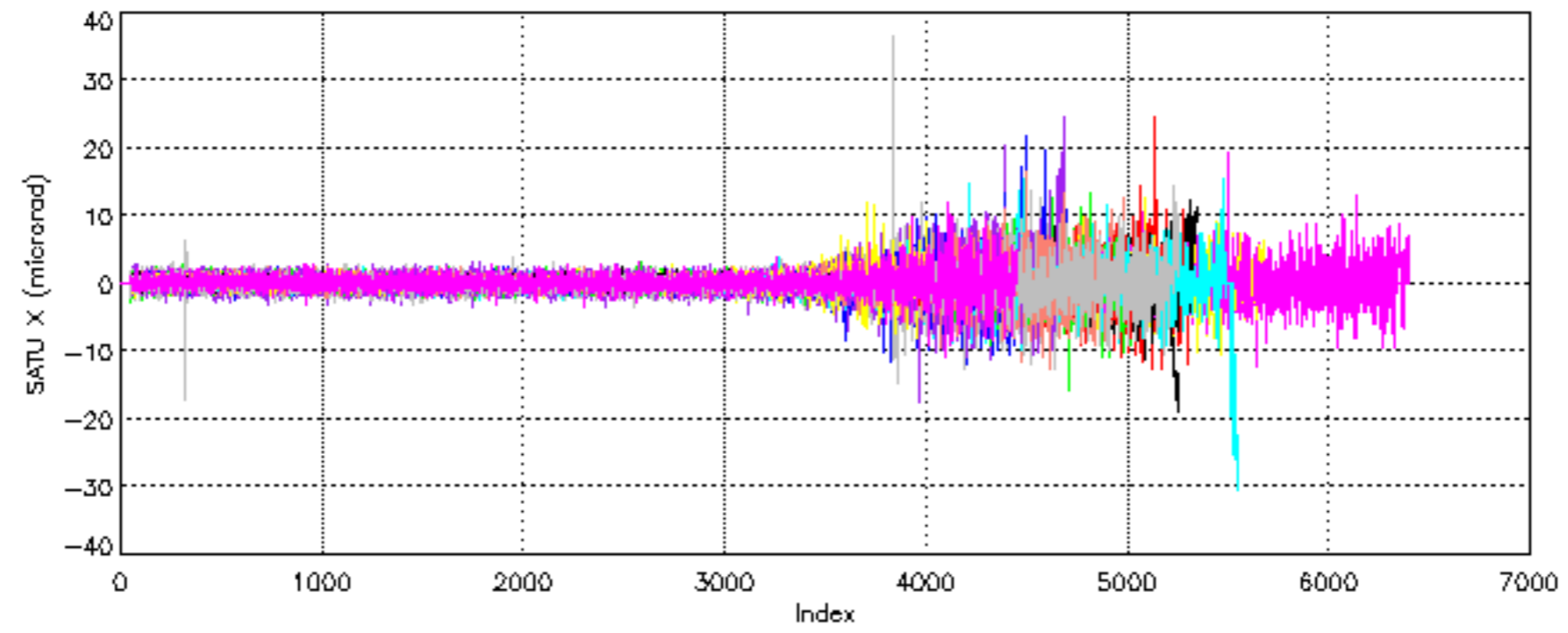
Tangent altitude at which the star is lost

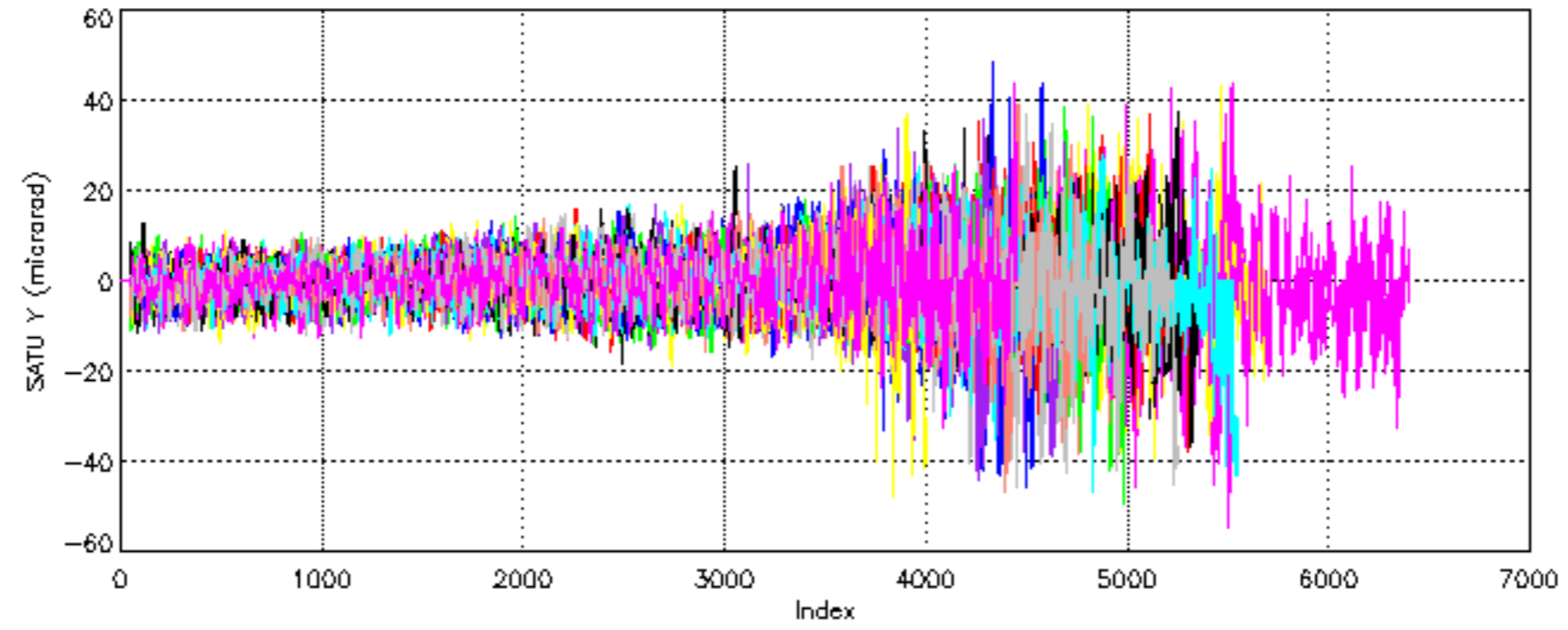


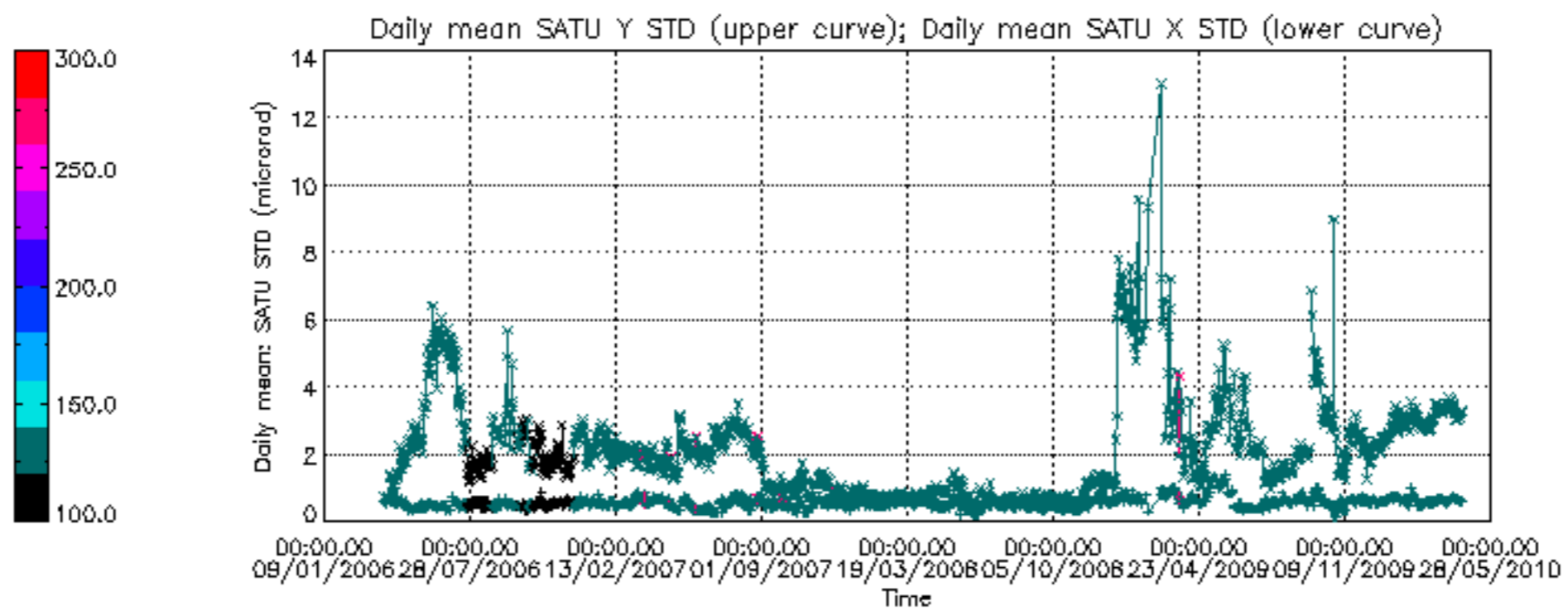
Tangent altitude at which the star is lost











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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  
 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

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 2;-1836.2; 01-APR-2010 02:47:48; Bright; 43.5; 144; 18Del Cyg ; 2.86; 11000;occ; 87; 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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 7; 66.3; 01-APR-2010 03:19:30; Dark ; 53.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 107; 0;42271  
 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  
 11; 839.0; 01-APR-2010 03:32:23; Dark ; 44.5; 78; Alp Lup ; 2.30; 28000;occ; 89; 0;42271  
 12; 935.3; 01-APR-2010 03:33:59; Dark ; 50.0; 81; Eta Cen ; 2.36; 28000;occ; 100; 0;42271  
 13; 1099.5; 01-APR-2010 03:36:44; Dark ; 53.0; 54; 5The Cen ; 2.06; 4500;occ; 106; 0;42271  
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 16; 1883.1; 01-APR-2010 03:49:47; Bright; 44.5; 121; 29Gam Vir ; 2.74; 7200;occ; 89; 0;42271  
 17; 2160.7; 01-APR-2010 03:54:25; Bright; 38.0; 62; 94Bet Leo ; 2.14; 9700;occ; 76; 0;42271  
 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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 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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 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
7; 2159.5; 01-APR-2010 20:40:23; Bright; 38.5; 62; 94Bet Leo ; 2.14; 9700;occ; 77; 0;42281
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9; 2846.1; 01-APR-2010 20:51:49; Bright; 37.5; 87; 64Gam UMa ; 2.43; 11000;occ; 75; 0;42281
10; 2959.3; 01-APR-2010 20:53:43; Bright; 36.0; 36; 50Alp UMa ; 1.80; 6300;occ; 72; 0;42281
11; 3334.8; 01-APR-2010 20:59:58; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;42281
12; 3901.3; 01-APR-2010 21:09:25; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;42281
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14; 4312.8; 01-APR-2010 21:16:16; Bright; 46.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 93; 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
6; 679.4; 01-APR-2010 21:56:19; Dark ; 53.0; 4; Alp1Cen ; -0.01; 5800;occ; 106; 0;42282
7; 845.9; 01-APR-2010 21:59:05; Dark ; 48.0; 78; Alp Lup ; 2.30; 28000;occ; 96; 0;42282
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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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2; -131.7; 01-APR-2010 23:23:23; Dark ; 36.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 72; 0;42282
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
8; 942.9; 01-APR-2010 23:41:18; Dark ; 46.5; 81; Eta Cen ; 2.36; 28000;occ; 93; 0;42283
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10; 1462.5; 01-APR-2010 23:49:58; Dark ; 45.5; 106; 9Bet Crv ; 2.65; 5600;occ; 91; 0;42283
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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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 13; 1100.6; 01-APR-2010 06:57:57; Dark ; 53.5; 54; 5The Cen ; 2.06; 4500;occ; 107; 0;42273  
 14; 1460.4; 01-APR-2010 07:03:56; Dark ; 46.0; 106; 9Bet Crv ; 2.65; 5600;occ; 92; 0;42273  
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 3; 2160.3; 01-APR-2010 07:15:36; Bright; 40.5; 62; 94Bet Leo ; 2.14; 9700;occ; 80; 0;42273  
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 5; 2666.2; 01-APR-2010 07:24:02; Bright; 35.5; 174; 52Psi UMa ; 3.00; 4400;occ; 71; 0;42273  
 6; 2848.1; 01-APR-2010 07:27:04; Bright; 40.0; 87; 64Gam UMa ; 2.43; 11000;occ; 80; 0;42273  
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 23; 7614.5; 01-APR-2010 08:46:30; Dark ; 43.0; 100; 4Gam Crv ; 2.58; 13100;occ; 86; 0;42274  
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 4; 2666.1; 01-APR-2010 09:04:38; Bright; 36.5; 174; 52Psi UMa ; 3.00; 4400;occ; 73; 0;42274  
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 15; 6334.8; 01-APR-2010 10:05:47; Dark ; 51.0; 40; The Sco ; 1.86; 7100;occ; 102; 0;42275  
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 21; 7497.0; 01-APR-2010 10:25:09; Dark ; 47.5; 106; 9Bet Crv ; 2.65; 5600;occ; 95; 0;42275  
 22; 7614.6; 01-APR-2010 10:27:07; Dark ; 43.0; 100; 4Gam Crv ; 2.58; 13100;occ; 86; 0;42275  
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 3; 2160.3; 01-APR-2010 10:36:48; Bright; 38.5; 62; 94Bet Leo ; 2.14; 9700;occ; 77; 0;42275  
 4; 2666.1; 01-APR-2010 10:45:14; Bright; 37.5; 174; 52Psi UMa ; 3.00; 4400;occ; 75; 0;42275

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6; 2957.7; 01-APR-2010 10:50:06; Bright; 37.0; 36; 50Alp UMa ; 1.80; 6300;occ; 74; 0;42275
7; 3336.6; 01-APR-2010 10:56:24; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;42275
8; 3901.8; 01-APR-2010 11:05:50; Bright; 36.5; 89; 5Alp Cep ; 2.45; 8000;occ; 73; 0;42275
9; 4199.0; 01-APR-2010 11:10:47; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;42275
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5; 73.1; 01-APR-2010 11:42:37; Dark ; 56.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 112; 0;42276
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8; 676.5; 01-APR-2010 11:52:40; Dark ; 53.0; 4; Alp1Cen ;-0.01; 5800;occ; 106; 0;42276
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11; 1101.8; 01-APR-2010 11:59:46; Dark ; 51.0; 54; 5The Cen ; 2.06; 4500;occ; 102; 0;42276
12; 1461.2; 01-APR-2010 12:05:45; Dark ; 46.0; 106; 9Bet Crv ; 2.65; 5600;occ; 92; 0;42276
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4; 2160.3; 01-APR-2010 12:17:24; Bright; 38.0; 62; 94Bet Leo ; 2.14; 9700;occ; 76; 0;42276
5; 2665.9; 01-APR-2010 12:25:50; Bright; 37.0; 174; 52Psi UMa ; 3.00; 4400;occ; 74; 0;42276
6; 2847.2; 01-APR-2010 12:28:51; Bright; 39.5; 87; 64Gam UMa ; 2.43; 11000;occ; 79; 0;42276
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9; 3901.8; 01-APR-2010 12:46:25; Bright; 38.0; 89; 5Alp Cep ; 2.45; 8000;occ; 76; 0;42276
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4; 2160.2; 01-APR-2010 13:58:00; Bright; 38.0; 62; 94Bet Leo ; 2.14; 9700;occ; 76; 0;42277
5; 2666.2; 01-APR-2010 14:06:26; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;42277
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7; 2957.4; 01-APR-2010 14:11:17; Bright; 40.5; 36; 50Alp UMa ; 1.80; 6300;occ; 81; 0;42277
8; 3336.1; 01-APR-2010 14:17:36; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;42277
9; 3901.8; 01-APR-2010 14:27:01; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;42277
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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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 3; 134.7; 26-APR-2010 01:54:22; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;42628  
 4; 588.5; 26-APR-2010 02:01:56; Dark ; 49.5; 141; Bet Ara ; 2.84; 4600;occ; 99; 0;42628  
 5; 679.7; 26-APR-2010 02:03:27; Dark ; 53.0; 40; The Sco ; 1.86; 7100;occ; 106; 0;42628  
 6; 1012.5; 26-APR-2010 02:09:00; Dark ; 42.5; 78; Alp Lup ; 2.30; 28000;occ; 85; 0;42628  
 7; 1106.0; 26-APR-2010 02:10:34; Dark ; 44.5; 81; Eta Cen ; 2.36; 28000;occ; 89; 0;42628  
 8; 1236.4; 26-APR-2010 02:12:44; Dark ; 44.5; 54; 5The Cen ; 2.06; 4500;occ; 89; 0;42628  
 9; 1582.8; 26-APR-2010 02:18:30; Bright; 49.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 98; 0;42628  
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 11; 2092.7; 26-APR-2010 02:27:00; Bright; 36.0; 138; 47Eps Vir ; 2.83; 4700;occ; 72; 0;42628  
 12; 2249.3; 26-APR-2010 02:29:37; Bright; 40.5; 111; 8Eta Boo ; 2.68; 6000;occ; 81; 0;42628  
 13; 2563.1; 26-APR-2010 02:34:51; Bright; 35.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 70; 0;42628  
 14; 2674.0; 26-APR-2010 02:36:41; Bright; 43.0; 180; 27Gam Boo ; 3.04; 8000;occ; 86; 0;42628  
 15; 2790.2; 26-APR-2010 02:38:38; Bright; 39.0; 39; 85Eta UMa ; 1.85; 24000;occ; 78; 0;42628  
 16; 3234.7; 26-APR-2010 02:46:02; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;42628

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8; -288.9; 26-APR-2010 03:27:55; Dark ; 41.0; 172; Gam Gru ; 3.00; 13100;occ; 82; 0;42628  
9; 135.4; 26-APR-2010 03:34:59; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;42629  
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19; 2562.9; 26-APR-2010 04:15:26; Bright; 36.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 73; 0;42629  
20; 2673.6; 26-APR-2010 04:17:17; Bright; 43.5; 180; 27Gam Boo ; 3.04; 8000;occ; 87; 0;42629  
21; 2790.0; 26-APR-2010 04:19:13; Bright; 39.0; 39; 85Eta UMa ; 1.85; 24000;occ; 78; 0;42629  
22; 3234.8; 26-APR-2010 04:26:38; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;42629

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4; -1057.0; 26-APR-2010 04:55:42; Dark ; 57.5; 61; 8Eps Peg ; 2.10; 3900;occ; 115; 0;42629  
5; -909.6; 26-APR-2010 04:58:10; Dark ; 50.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 101; 0;42629  
6; -713.1; 26-APR-2010 05:01:26; Dark ; 57.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 114; 0;42629  
7; -553.0; 26-APR-2010 05:04:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42629  
8; -288.4; 26-APR-2010 05:08:31; Dark ; 43.5; 172; Gam Gru ; 3.00; 13100;occ; 87; 0;42629  
9; 136.0; 26-APR-2010 05:15:35; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;42630  
10; 590.3; 26-APR-2010 05:23:10; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;42630  
11; 681.5; 26-APR-2010 05:24:41; Dark ; 52.5; 40; The Sco ; 1.86; 7100;occ; 105; 0;42630  
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13; 1106.6; 26-APR-2010 05:31:46; Dark ; 38.5; 81; Eta Cen ; 2.36; 28000;occ; 77; 0;42630  
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19; 2563.1; 26-APR-2010 05:56:02; Bright; 37.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 75; 0;42630  
20; 2673.1; 26-APR-2010 05:57:53; Bright; 47.0; 180; 27Gam Boo ; 3.04; 8000;occ; 94; 0;42630  
21; 2789.3; 26-APR-2010 05:59:49; Bright; 42.0; 39; 85Eta UMa ; 1.85; 24000;occ; 84; 0;42630  
22; 3234.7; 26-APR-2010 06:07:14; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;42630

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3; -1282.8; 26-APR-2010 06:32:33; Dark ; 43.0; 90; 54Alp Peg ; 2.49; 11000;occ; 86; 0;42630  
4; -1056.2; 26-APR-2010 06:36:19; Dark ; 55.0; 61; 8Eps Peg ; 2.10; 3900;occ; 110; 0;42630  
5; -908.7; 26-APR-2010 06:38:47; Dark ; 50.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 101; 0;42630  
6; -711.8; 26-APR-2010 06:42:04; Dark ; 54.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 109; 0;42630  
7; -552.0; 26-APR-2010 06:44:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42630  
8; -287.5; 26-APR-2010 06:49:08; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;42630  
9; 136.5; 26-APR-2010 06:56:12; Dark ; 40.0; 45; Alp Pav ; 1.94; 26000;occ; 80; 0;42631  
10; 590.6; 26-APR-2010 07:03:46; Dark ; 44.0; 141; Bet Ara ; 2.84; 4600;occ; 88; 0;42631  
11; 682.4; 26-APR-2010 07:05:18; Dark ; 54.5; 40; The Sco ; 1.86; 7100;occ; 109; 0;42631  
12; 1013.4; 26-APR-2010 07:10:49; Dark ; 42.0; 78; Alp Lup ; 2.30; 28000;occ; 84; 0;42631  
13; 1107.2; 26-APR-2010 07:12:23; Dark ; 44.0; 81; Eta Cen ; 2.36; 28000;occ; 88; 0;42631  
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3; 2248.3; 26-APR-2010 07:31:24; Bright; 42.5; 111; 8Eta Boo ; 2.68; 6000;occ; 85; 0;42631  
4; 2562.9; 26-APR-2010 07:36:38; Bright; 36.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 72; 0;42631  
5; 2672.5; 26-APR-2010 07:38:28; Bright; 43.0; 180; 27Gam Boo ; 3.04; 8000;occ; 86; 0;42631  
6; 2789.1; 26-APR-2010 07:40:25; Bright; 41.5; 39; 85Eta UMa ; 1.85; 24000;occ; 83; 0;42631  
7; 3234.3; 26-APR-2010 07:47:50; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;42631  
8; 3847.3; 26-APR-2010 07:58:03; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;42631  
9; 4497.7; 26-APR-2010 08:08:53; Bright; 58.0; 164; 44Eta Peg ; 2.95; 5400;occ; 116; 0;42631



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12; 5127.7; 26-APR-2010 08:19:23; Dark ; 50.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 100; 0;42631
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16; 6173.0; 26-APR-2010 08:36:48; Dark ; 38.0; 45; Alp Pav ; 1.94; 26000;occ; 76; 0;42632
17; 6627.4; 26-APR-2010 08:44:23; Dark ; 52.5; 141; Bet Ara ; 2.84; 4600;occ; 105; 0;42632
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3; 2562.5; 26-APR-2010 09:17:14; Bright; 53.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 106; 0;42632
4; 2671.7; 26-APR-2010 09:19:03; Bright; 45.0; 180; 27Gam Boo ; 3.04; 8000;occ; 90; 0;42632
5; 2788.7; 26-APR-2010 09:21:00; Bright; 39.0; 39; 85Eta UMa ; 1.85; 24000;occ; 78; 0;42632
6; 3234.0; 26-APR-2010 09:28:25; Bright; 50.0; 60; 7Bet UMi ; 2.08; 3950;occ; 100; 0;42632
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9; 4753.5; 26-APR-2010 09:53:45; Dark ; 42.5; 90; 54Alp Peg ; 2.49; 11000;occ; 85; 0;42632
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13; 5485.8; 26-APR-2010 10:05:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42632
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17; 6720.6; 26-APR-2010 10:26:32; Dark ; 65.0; 40; The Sco ; 1.86; 7100;occ; 130; 0;42633
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13; 5326.5; 26-APR-2010 11:43:54; Dark ; 54.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 109; 0;42633
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19; 7050.4; 26-APR-2010 12:12:38; Dark ; 40.5; 78; Alp Lup ; 2.30; 28000;occ; 81; 0;42634
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2; 1206.0; 30-APR-2010 18:32:21; Dark ; 61.5; 136; 23Tau Sco ; 2.82; 30000;occ; 123; 0;42695
3; 1398.6; 30-APR-2010 18:35:34; Dark ; 60.0; 80; 7Del Sco ; 2.32; 30000;occ; 120; 0;42695
4; 1589.8; 30-APR-2010 18:38:45; Bright; 42.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 84; 0;42695
5; 1728.4; 30-APR-2010 18:41:04; Bright; 49.0; 104; 27Bet Lib ; 2.61; 13100;occ; 98; 0;42695
6; 2234.3; 30-APR-2010 18:49:29; Bright; 39.5; 111; 8Eta Boo ; 2.68; 6000;occ; 79; 0;42695
7; 2458.7; 30-APR-2010 18:53:14; Bright; 45.5; 83; ; 2.38; 11000;occ; 91; 0;42695
8; 2639.0; 30-APR-2010 18:56:14; Bright; 42.0; 180; 27Gam Boo ; 3.04; 8000;occ; 84; 0;42695
9; 2772.0; 30-APR-2010 18:58:27; Bright; 39.5; 39; 85Eta UMa ; 1.85; 24000;occ; 79; 0;42695
10; 3214.0; 30-APR-2010 19:05:49; Bright; 45.5; 119; 14Eta Dra ; 2.73; 4700;occ; 91; 0;42695
11; 3830.0; 30-APR-2010 19:16:05; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;42695
12; 4142.0; 30-APR-2010 19:21:17; Bright; 42.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 84; 0;42695
13; 4507.4; 30-APR-2010 19:27:23; Bright; 45.5; 164; 44Eta Peg ; 2.95; 5400;occ; 91; 0;42695
14; 4772.1; 30-APR-2010 19:31:47; Dark ; 44.0; 90; 54Alp Peg ; 2.49; 11000;occ; 88; 0;42695
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16; 5173.7; 30-APR-2010 19:38:29; Dark ; 56.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 113; 0;42695
17; 5394.5; 30-APR-2010 19:42:10; Dark ; 58.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 116; 0;42695
18; 5551.9; 30-APR-2010 19:44:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42695
19; 5793.2; 30-APR-2010 19:48:48; Dark ; 40.5; 172; Gam Gru ; 3.00; 13100;occ; 81; 0;42695
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21; 6778.6; 30-APR-2010 20:05:14; Dark ; 58.0; 40; The Sco ; 1.86; 7100;occ; 116; 0;42696
22; 6883.6; 30-APR-2010 20:06:59; Dark ; 61.0; 25; 35Lam Sco ; 1.62; 28000;occ; 122; 0;42696

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