

# GOMOS Daily Report 03-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	06APR2010 04:51:53
Data source version	GOMOS/5.00L04
Start time of products	03APR2010 00:04:11
Stop time of products	03APR2010 23:47:38
Store outputs in DB	Yes
Nb of level 1b prods	127
Nb of prods with errors	0

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

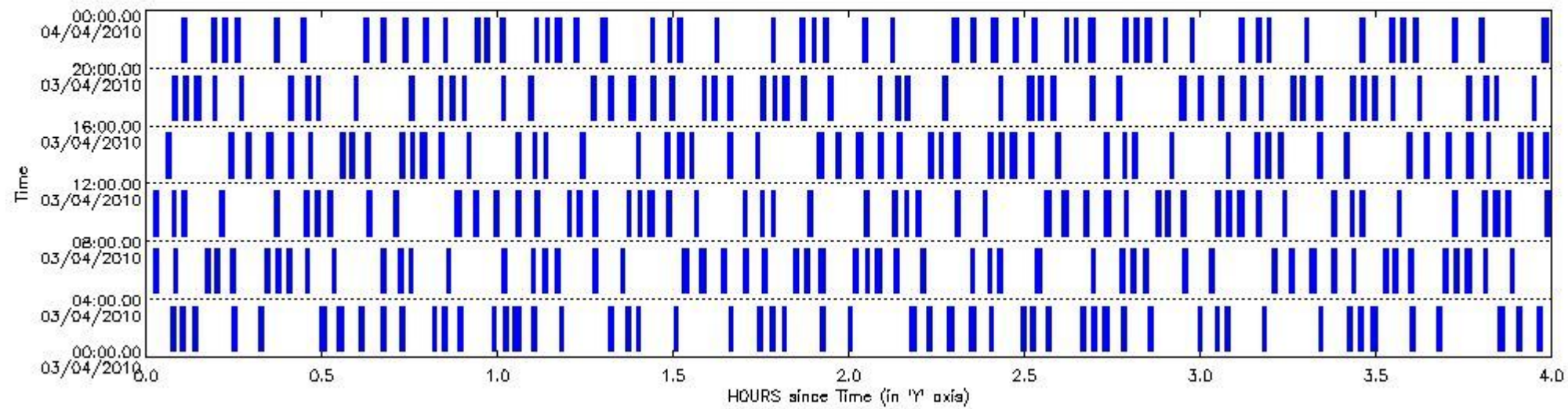
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

No missing products.

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

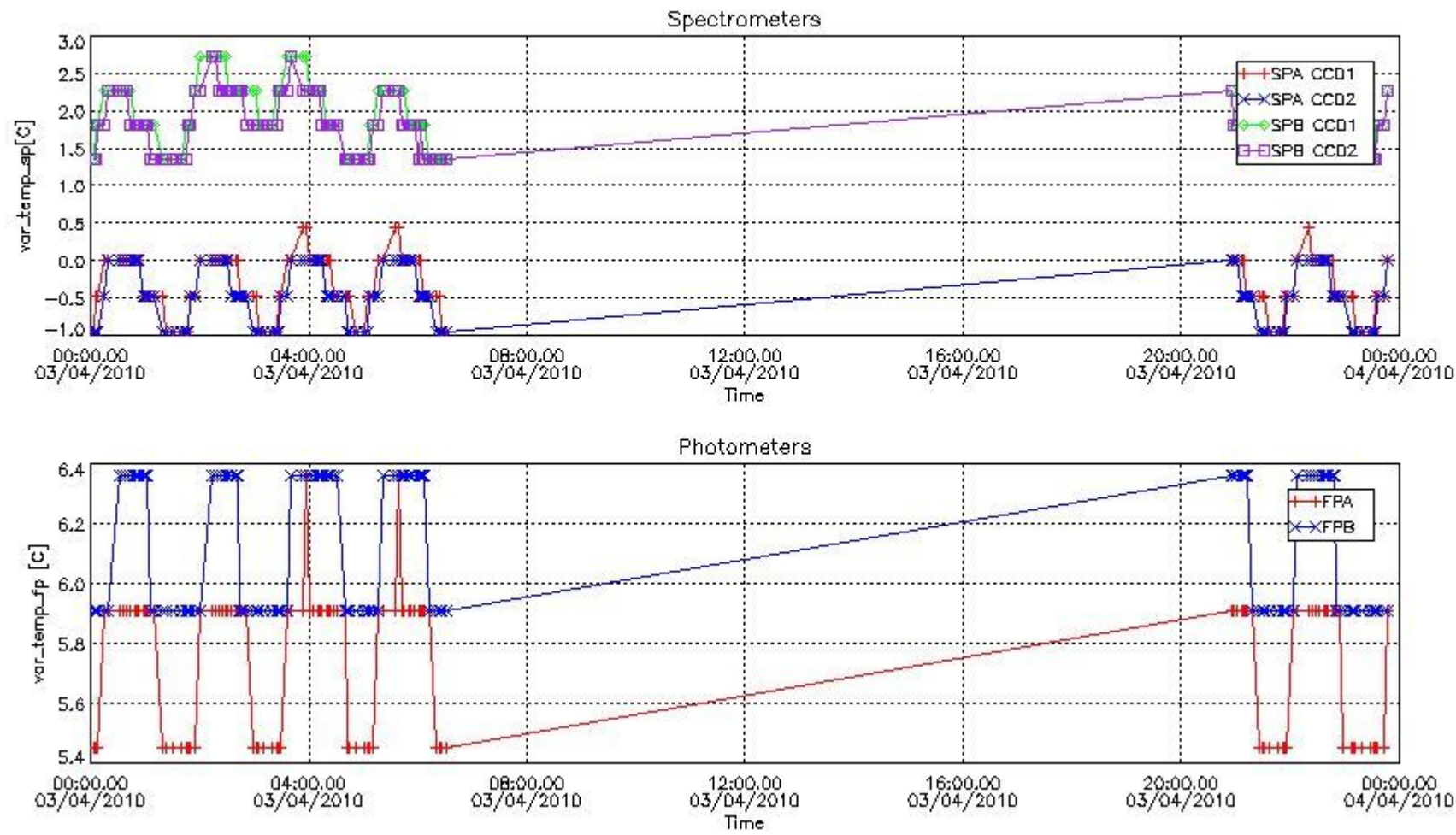
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100403_000411_000000412088_00159_42297_1302.N1	03-APR-2010 00:04:11	Bright	41.000	19	50Alp Cyg	1.2460	10500.	82	42297	No
2	GOM_TRA_1PNPDE20100403_000551_000000472088_00159_42297_1303.N1	03-APR-2010 00:05:51	Bright	47.000	66	37Gam Cyg	2.2080	5900.0	94	42297	No
3	GOM_TRA_1PNPDE20100403_000755_000000432088_00159_42297_1304.N1	03-APR-2010 00:07:55	Bright	43.000	92	53Eps Cyg	2.5000	4500.0	86	42297	No
4	GOM_TRA_1PNPDE20100403_001432_000000472088_00159_42297_1305.N1	03-APR-2010 00:14:32	Twilight_stray	46.500	61	8Eps Peg	2.1000	3900.0	93	42297	No
5	GOM_TRA_1PNPDE20100403_001910_000000432088_00159_42297_1306.N1	03-APR-2010 00:19:10	Dark	43.000	154	22Bet Aqr	2.8990	5700.0	86	42297	No
6	GOM_TRA_1PNPDE20100403_003242_000000522088_00159_42297_1305.N1	03-APR-2010 00:32:42	Dark	52.000	103	38Zet Sgr	2.6000	9700.0	104	42297	No
7	GOM_TRA_1PNPDE20100403_003616_000000562088_00160_42298_1306.N1	03-APR-2010 00:36:16	Dark	56.000	38	20Eps Sgr	1.8360	11000.	112	42298	No
8	GOM_TRA_1PNPDE20100403_003958_000000522088_00160_42298_1307.N1	03-APR-2010 00:39:58	Dark	51.500	40	The Sco	1.8590	7100.0	103	42298	No
9	GOM_TRA_1PNPDE20100403_004323_000000422088_00160_42298_1308.N1	03-APR-2010 00:43:23	Dark	42.000	134	Bet TrA	2.8100	6600.0	84	42298	No
10	GOM_TRA_1PNPDE20100403_004849_000000462088_00160_42298_1309.N1	03-APR-2010 00:48:49	Straylight	45.500	78	Alp Lup	2.3040	28000.	91	42298	No
11	GOM_TRA_1PNPDE20100403_005026_000000462088_00160_42298_1310.N1	03-APR-2010 00:50:26	Straylight	46.000	81	Eta Cen	2.3560	28000.	92	42298	No
12	GOM_TRA_1PNPDE20100403_005307_000000532088_00160_42298_1311.N1	03-APR-2010 00:53:07	Straylight	53.000	54	5The Cen	2.0550	4500.0	106	42298	No

13	GOM_TRA_1PNPDE20100403_005859_000000462088_00160_42298_1312.N1	03-APR-2010 00:58:59	Twilight	45.500	106	9Bet Crv	2.6480	5600.0	91	42298	No
14	GOM_TRA_1PNPDE20100403_010056_000000442088_00160_42298_1313.N1	03-APR-2010 01:00:56	Twilight	44.000	100	4Gam Crv	2.5800	13100.	88	42298	No
15	GOM_TRA_1PNPDE20100403_010242_000000692088_00160_42298_1314.N1	03-APR-2010 01:02:42	Bright	69.000	15	67Alp Vir	0.97600	28000.	138	42298	No
16	GOM_TRA_1PNPDE20100403_010554_000000442088_00160_42298_1315.N1	03-APR-2010 01:05:54	Bright	44.000	121	29Gam Vir	2.7400	7200.0	88	42298	No
17	GOM_TRA_1PNPDE20100403_011032_000000382088_00160_42298_1316.N1	03-APR-2010 01:10:32	Bright	37.500	62	94Bet Leo	2.1360	9700.0	75	42298	No
18	GOM_TRA_1PNPDE20100403_011857_000000452088_00160_42298_1317.N1	03-APR-2010 01:18:57	Bright	44.500	152	12Alp2CVn	2.8900	11000.	89	42298	No
19	GOM_TRA_1PNPDE20100403_012156_000000382088_00160_42298_1318.N1	03-APR-2010 01:21:56	Bright	37.500	87	64Gam UMa	2.4330	11000.	75	42298	No
20	GOM_TRA_1PNPDE20100403_012342_000000392088_00160_42298_1319.N1	03-APR-2010 01:23:42	Bright	39.000	32	77Eps UMa	1.7630	11000.	78	42298	No
21	GOM_TRA_1PNPDE20100403_013003_000000432088_00160_42298_1320.N1	03-APR-2010 01:30:03	Bright	43.000	60	7Bet UMi	2.0810	3950.0	86	42298	No
22	GOM_TRA_1PNPDE20100403_013934_000000392088_00160_42298_1321.N1	03-APR-2010 01:39:34	Bright	39.000	89	5Alp Cep	2.4510	8000.0	78	42298	No
23	GOM_TRA_1PNPDE20100403_014429_000000482088_00160_42298_1322.N1	03-APR-2010 01:44:29	Bright	48.000	144	18Del Cyg	2.8600	11000.	96	42298	No
24	GOM_TRA_1PNPDE20100403_014627_000000482088_00160_42298_1323.N1	03-APR-2010 01:46:27	Bright	47.500	66	37Gam Cyg	2.2080	5900.0	95	42298	No
25	GOM_TRA_1PNPDE20100403_014831_000000452088_00160_42298_1324.N1	03-APR-2010 01:48:31	Bright	45.000	92	53Eps Cyg	2.5000	4500.0	90	42298	No
26	GOM_TRA_1PNPDE20100403_015508_000000452088_00160_42298_1325.N1	03-APR-2010 01:55:08	Twilight	45.000	61	8Eps Peg	2.1000	3900.0	90	42298	No
27	GOM_TRA_1PNPDE20100403_015946_000000452088_00160_42298_1328.N1	03-APR-2010 01:59:46	Dark	45.000	154	22Bet Aqr	2.8990	5700.0	90	42298	No
28	GOM_TRA_1PNPDE20100403_021319_000000532088_00160_42298_1329.N1	03-APR-2010 02:13:19	Dark	53.000	103	38Zet Sgr	2.6000	9700.0	106	42298	No
29	GOM_TRA_1PNPDE20100403_021653_000000572088_00161_42299_1330.N1	03-APR-2010 02:16:53	Dark	57.000	38	20Eps Sgr	1.8360	11000.	114	42299	No
30	GOM_TRA_1PNPDE20100403_022036_000000542088_00161_42299_1331.N1	03-APR-2010 02:20:36	Dark	54.000	40	The Sco	1.8590	7100.0	108	42299	No
31	GOM_TRA_1PNPDE20100403_022400_000000392088_00161_42299_1332.N1	03-APR-2010 02:24:00	Dark	38.500	134	Bet TrA	2.8100	6600.0	77	42299	No
32	GOM_TRA_1PNPDE20100403_022926_000000452088_00161_42299_1333.N1	03-APR-2010 02:29:26	Straylight	44.500	78	Alp Lup	2.3040	28000.	89	42299	No
33	GOM_TRA_1PNPDE20100403_023102_000000492088_00161_42299_1334.N1	03-APR-2010 02:31:02	Straylight	49.000	81	Eta Cen	2.3560	28000.	98	42299	No
34	GOM_TRA_1PNPDE20100403_023344_000000502088_00161_42299_1335.N1	03-APR-2010 02:33:44	Straylight	49.500	54	5The Cen	2.0550	4500.0	99	42299	No
35	GOM_TRA_1PNPDE20100403_023935_000000482088_00161_42299_1336.N1	03-APR-2010 02:39:35	Twilight	47.500	106	9Bet Crv	2.6480	5600.0	95	42299	No
36	GOM_TRA_1PNPDE20100403_024132_000000442088_00161_42299_1337.N1	03-APR-2010 02:41:32	Twilight	43.500	100	4Gam Crv	2.5800	13100.	87	42299	No
37	GOM_TRA_1PNPDE20100403_024318_000000662088_00161_42299_1338.N1	03-APR-2010 02:43:18	Bright	66.000	15	67Alp Vir	0.97600	28000.	132	42299	No
38	GOM_TRA_1PNPDE20100403_024630_000000442088_00161_42299_1339.N1	03-APR-2010 02:46:30	Bright	44.000	121	29Gam Vir	2.7400	7200.0	88	42299	No
39	GOM_TRA_1PNPDE20100403_025108_000000402088_00161_42299_1340.N1	03-APR-2010 02:51:08	Bright	39.500	62	94Bet Leo	2.1360	9700.0	79	42299	No
40	GOM_TRA_1PNPDE20100403_025933_000000442088_00161_42299_1341.N1	03-APR-2010 02:59:33	Bright	43.500	152	12Alp2CVn	2.8900	11000.	87	42299	No
41	GOM_TRA_1PNPDE20100403_030232_000000382088_00161_42299_1342.N1	03-APR-2010 03:02:32	Bright	37.500	87	64Gam UMa	2.4330	11000.	75	42299	No
42	GOM_TRA_1PNPDE20100403_030417_000000402088_00161_42299_1343.N1	03-APR-2010 03:04:17	Bright	40.000	32	77Eps UMa	1.7630	11000.	80	42299	No
43	GOM_TRA_1PNPDE20100403_031039_000000392088_00161_42299_1344.N1	03-APR-2010 03:10:39	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	42299	No
44	GOM_TRA_1PNPDE20100403_032010_000000382088_00161_42299_1356.N1	03-APR-2010 03:20:10	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	42299	No
45	GOM_TRA_1PNPDE20100403_032505_000000472088_00161_42299_1357.N1	03-APR-2010 03:25:05	Bright	46.500	144	18Del Cyg	2.8600	11000.	93	42299	No
46	GOM_TRA_1PNPDE20100403_032702_000000462088_00161_42299_1358.N1	03-APR-2010 03:27:02	Bright	45.500	66	37Gam Cyg	2.2080	5900.0	91	42299	No
47	GOM_TRA_1PNPDE20100403_032907_000000612088_00161_42299_1359.N1	03-APR-2010 03:29:07	Bright	61.000	92	53Eps Cyg	2.5000	4500.0	122	42299	No
48	GOM_TRA_1PNPDE20100403_033545_000000472088_00161_42299_1360.N1	03-APR-2010 03:35:45	Twilight	46.500	61	8Eps Peg	2.1000	3900.0	93	42299	No
49	GOM_TRA_1PNPDE20100403_034023_000000452088_00161_42299_1361.N1	03-APR-2010 03:40:23	Dark	44.500	154	22Bet Aqr	2.8990	5700.0	89	42299	No
50	GOM_TRA_1PNPDE20100403_035356_000000532088_00161_42299_1362.N1	03-APR-2010 03:53:56	Dark	52.500	103	38Zet Sgr	2.6000	9700.0	105	42299	No
51	GOM_TRA_1PNPDE20100403_035731_000000542088_00162_42300_1363.N1	03-APR-2010 03:57:31	Dark	53.500	38	20Eps Sgr	1.8360	11000.	107	42300	No
52	GOM_TRA_1PNPDE20100403_040112_000000532088_00162_42300_1364.N1	03-APR-2010 04:01:12	Dark	53.000	40	The Sco	1.8590	7100.0	106	42300	No
53	GOM_TRA_1PNPDE20100403_040437_000000412088_00162_42300_1365.N1	03-APR-2010 04:04:37	Dark	41.000	134	Bet TrA	2.8100	6600.0	82	42300	No
54	GOM_TRA_1PNPDE20100403_041002_000000462088_00162_42300_1366.N1	03-APR-2010 04:10:02	Straylight	46.000	78	Alp Lup	2.3040	28000.	92	42300	No
55	GOM_TRA_1PNPDE20100403_041139_000000442088_00162_42300_1367.N1	03-APR-2010 04:11:39	Straylight	44.000	81	Eta Cen	2.3560	28000.	88	42300	No
56	GOM_TRA_1PNPDE20100403_041420_000000502088_00162_42300_1368.N1	03-APR-2010 04:14:20	Straylight	50.000	54	5The Cen	2.0550	4500.0	100	42300	No
57	GOM_TRA_1PNPDE20100403_042012_000000472088_00162_42300_1369.N1	03-APR-2010 04:20:12	Twilight	46.500	106	9Bet Crv	2.6480	5600.0	93	42300	No
58	GOM_TRA_1PNPDE20100403_042208_000000432088_00162_42300_1370.N1	03-APR-2010 04:22:08	Twilight	42.500	100	4Gam Crv	2.5800	13100.	85	42300	No
59	GOM_TRA_1PNPDE20100403_042353_000000552088_00162_42300_1371.N1	03-APR-2010 04:23:53	Bright	54.500	15	67Alp Vir	0.97600	28000.	109	42300	No
60	GOM_TRA_1PNPDE20100403_042706_000000422088_00162_42300_1372.N1	03-APR-2010 04:27:06	Bright	42.000	121	29Gam Vir	2.7400	7200.0	84	42300	No
61	GOM_TRA_1PNPDE20100403_043144_000000402088_00162_42300_1373.N1	03-APR-2010 04:31:44	Bright	40.000	62	94Bet Leo	2.1360	9700.0	80	42300	No
62	GOM_TRA_1PNPDE20100403_044008_000000432088_00162_42300_1374.N1	03-APR-2010 04:40:08	Bright	42.500	152	12Alp2CVn	2.8900	11000.	85	42300	No
63	GOM_TRA_1PNPDE20100403_044308_000000362088_00162_42300_1375.N1	03-APR-2010 04:43:08	Bright	36.000	87	64Gam UMa	2.4330	11000.	72	42300	No
64	GOM_TRA_1PNPDE20100403_044453_000000412088_00162_42300_1376.N1	03-APR-2010 04:44:53	Bright	40.500	32	77Eps UMa	1.7630	11000.	81	42300	No
65	GOM_TRA_1PNPDE20100403_045114_000000422088_00162_42300_1377.N1	03-APR-2010 04:51:14	Bright	41.500	60	7Bet UMi	2.0810	3950.0	83	42300	No
66	GOM_TRA_1PNPDE20100403_050046_000000392088_00162_42300_1383.N1	03-APR-2010 05:00:46	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	42300	No
67	GOM_TRA_1PNPDE20100403_050541_000000462088_00162_42300_1384.N1	03-APR-2010 05:05:41	Bright	46.000	144	18Del Cyg	2.8600	11000.	92	42300	No
68	GOM_TRA_1PNPDE20100403_050738_000000472088_00162_42300_1385.N1	03-APR-2010 05:07:38	Bright	46.500	66	37Gam Cyg	2.2080	5900.0	93	42300	No
69	GOM_TRA_1PNPDE20100403_050943_000000472088_00162_42300_1386.N1	03-APR-2010 05:09:43	Bright	46.500	92	53Eps Cyg	2.5000	4500.0	93	42300	No
70	GOM_TRA_1PNPDE20100403_051621_000000462088_00162_42300_1387.N1	03-APR-2010 05:16:21	Twilight	45.500	61	8Eps Peg	2.1000	3900.0	91	42300	No
71	GOM_TRA_1PNPDE20100403_052059_000000452088_00162_42300_1388.N1	03-APR-2010 05:20:59	Dark	44.500	154	22Bet Aqr	2.8990	5700.0	89	42300	No



72	GOM_TRA_1PNPDE20100403_053433_000000532088_00162_42300_1389.N1	03-APR-2010 05:34:33	Dark	53.000	103	38Zet Sgr	2.6000	9700.0	106	42300	No
73	GOM_TRA_1PNPDE20100403_053808_000000562088_00163_42301_1390.N1	03-APR-2010 05:38:08	Dark	56.000	38	20Eps Sgr	1.8360	11000.	112	42301	No
74	GOM_TRA_1PNPDE20100403_054150_000000542088_00163_42301_1391.N1	03-APR-2010 05:41:50	Dark	53.500	40	The Sco	1.8590	7100.0	107	42301	No
75	GOM_TRA_1PNPDE20100403_054513_000000412088_00163_42301_1392.N1	03-APR-2010 05:45:13	Dark	41.000	134	Bet TrA	2.8100	6600.0	82	42301	No
76	GOM_TRA_1PNPDE20100403_055039_000000482088_00163_42301_1393.N1	03-APR-2010 05:50:39	Straylight	47.500	78	Alp Lup	2.3040	28000.	95	42301	No
77	GOM_TRA_1PNPDE20100403_055216_000000492088_00163_42301_1394.N1	03-APR-2010 05:52:16	Straylight	49.000	81	Eta Cen	2.3560	28000.	98	42301	No
78	GOM_TRA_1PNPDE20100403_055456_000000512088_00163_42301_1395.N1	03-APR-2010 05:54:56	Straylight	51.000	54	5The Cen	2.0550	4500.0	102	42301	No
79	GOM_TRA_1PNPDE20100403_060048_000000452088_00163_42301_1396.N1	03-APR-2010 06:00:48	Tw_i_and_stray	45.000	106	9Bet Crv	2.6480	5600.0	90	42301	No
80	GOM_TRA_1PNPDE20100403_060244_000000422088_00163_42301_1397.N1	03-APR-2010 06:02:44	Tw_i_and_stray	42.000	100	4Gam Crv	2.5800	13100.	84	42301	No
81	GOM_TRA_1PNPDE20100403_060430_000000632088_00163_42301_1398.N1	03-APR-2010 06:04:30	Bright	63.000	15	67Alp Vir	0.97600	28000.	126	42301	No
82	GOM_TRA_1PNPDE20100403_060742_000000432088_00163_42301_1399.N1	03-APR-2010 06:07:42	Bright	43.000	121	29Gam Vir	2.7400	7200.0	86	42301	No
83	GOM_TRA_1PNPDE20100403_061220_000000392088_00163_42301_1400.N1	03-APR-2010 06:12:20	Bright	38.500	62	94Bet Leo	2.1360	9700.0	77	42301	No
84	GOM_TRA_1PNPDE20100403_062044_000000422088_00163_42301_1401.N1	03-APR-2010 06:20:44	Bright	42.000	152	12Alp2CVn	2.8900	11000.	84	42301	No
85	GOM_TRA_1PNPDE20100403_062344_000000382088_00163_42301_1402.N1	03-APR-2010 06:23:44	Bright	38.000	87	64Gam UMa	2.4330	11000.	76	42301	No
86	GOM_TRA_1PNPDE20100403_062529_000000402088_00163_42301_1403.N1	03-APR-2010 06:25:29	Bright	40.000	32	77Eps UMa	1.7630	11000.	80	42301	No
87	GOM_TRA_1PNPDE20100403_063150_000000582088_00163_42301_1404.N1	03-APR-2010 06:31:50	Bright	57.500	60	7Bet UMi	2.0810	3950.0	115	42301	No
88	GOM_TRA_1PNPDE20100403_205608_000000442088_00172_42310_1504.N1	03-APR-2010 20:56:08	Straylight	44.000	78	Alp Lup	2.3040	28000.	88	42310	No
89	GOM_TRA_1PNPDE20100403_205744_000000502088_00172_42310_1505.N1	03-APR-2010 20:57:44	Straylight	50.000	81	Eta Cen	2.3560	28000.	100	42310	No
90	GOM_TRA_1PNPDE20100403_210024_000000462088_00172_42310_1506.N1	03-APR-2010 21:00:24	Straylight	45.500	54	5The Cen	2.0550	4500.0	91	42310	No
91	GOM_TRA_1PNPDE20100403_210613_000000452088_00172_42310_1507.N1	03-APR-2010 21:06:13	Tw_i_and_stray	45.000	106	9Bet Crv	2.6480	5600.0	90	42310	No
92	GOM_TRA_1PNPDE20100403_210809_000000432088_00172_42310_1508.N1	03-APR-2010 21:08:09	Tw_i_and_stray	42.500	100	4Gam Crv	2.5800	13100.	85	42310	No
93	GOM_TRA_1PNPDE20100403_210953_000000612088_00172_42310_1509.N1	03-APR-2010 21:09:53	Bright	60.500	15	67Alp Vir	0.97600	28000.	121	42310	No
94	GOM_TRA_1PNPDE20100403_211304_000000432088_00172_42310_1510.N1	03-APR-2010 21:13:04	Bright	42.500	121	29Gam Vir	2.7400	7200.0	85	42310	No
95	GOM_TRA_1PNPDE20100403_211742_000000542088_00172_42310_1511.N1	03-APR-2010 21:17:42	Bright	54.000	62	94Bet Leo	2.1360	9700.0	108	42310	No
96	GOM_TRA_1PNPDE20100403_212602_000000422088_00172_42310_1512.N1	03-APR-2010 21:26:02	Bright	42.000	152	12Alp2CVn	2.8900	11000.	84	42310	No
97	GOM_TRA_1PNPDE20100403_212905_000000382088_00172_42310_1513.N1	03-APR-2010 21:29:05	Bright	37.500	87	64Gam UMa	2.4330	11000.	75	42310	No
98	GOM_TRA_1PNPDE20100403_213048_000000422088_00172_42310_1514.N1	03-APR-2010 21:30:48	Bright	41.500	32	77Eps UMa	1.7630	11000.	83	42310	No
99	GOM_TRA_1PNPDE20100403_213710_000000372088_00172_42310_1515.N1	03-APR-2010 21:37:10	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	42310	No
100	GOM_TRA_1PNPDE20100403_214644_000000382088_00172_42310_1516.N1	03-APR-2010 21:46:44	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	42310	No
101	GOM_TRA_1PNPDE20100403_215138_000000482088_00172_42310_1517.N1	03-APR-2010 21:51:38	Bright	47.500	144	18Del Cyg	2.8600	11000.	95	42310	No
102	GOM_TRA_1PNPDE20100403_215338_000000472088_00172_42310_1518.N1	03-APR-2010 21:53:38	Bright	47.000	66	37Gam Cyg	2.2080	5900.0	94	42310	No
103	GOM_TRA_1PNPDE20100403_215544_000000452088_00172_42310_1519.N1	03-APR-2010 21:55:44	Bright	44.500	92	53Eps Cyg	2.5000	4500.0	89	42310	No
104	GOM_TRA_1PNPDE20100403_220223_000000452088_00172_42310_1520.N1	03-APR-2010 22:02:23	Tw_i_and_stray	44.500	61	8Eps Peg	2.1000	3900.0	89	42310	No
105	GOM_TRA_1PNPDE20100403_220702_000000452088_00172_42310_1521.N1	03-APR-2010 22:07:02	Dark	45.000	154	22Bet Aqr	2.8990	5700.0	90	42310	No
106	GOM_TRA_1PNPDE20100403_222045_000000552088_00172_42310_1525.N1	03-APR-2010 22:20:45	Dark	55.000	103	38Zet Sgr	2.6000	9700.0	110	42310	No
107	GOM_TRA_1PNPDE20100403_222421_000000572088_00173_42311_1526.N1	03-APR-2010 22:24:21	Dark	56.500	38	20Eps Sgr	1.8360	11000.	113	42311	No
108	GOM_TRA_1PNPDE20100403_222800_000000492088_00173_42311_1527.N1	03-APR-2010 22:28:00	Dark	49.000	40	The Sco	1.8590	7100.0	98	42311	No
109	GOM_TRA_1PNPDE20100403_223117_000000402088_00173_42311_1528.N1	03-APR-2010 22:31:17	Dark	40.000	134	Bet TrA	2.8100	6600.0	80	42311	No
110	GOM_TRA_1PNPDE20100403_223645_000000482088_00173_42311_1529.N1	03-APR-2010 22:36:45	Straylight	47.500	78	Alp Lup	2.3040	28000.	95	42311	No
111	GOM_TRA_1PNPDE20100403_223821_000000462088_00173_42311_1530.N1	03-APR-2010 22:38:21	Straylight	46.000	81	Eta Cen	2.3560	28000.	92	42311	No
112	GOM_TRA_1PNPDE20100403_224100_000000552088_00173_42311_1531.N1	03-APR-2010 22:41:00	Straylight	55.000	54	5The Cen	2.0550	4500.0	110	42311	No
113	GOM_TRA_1PNPDE20100403_224649_000000452088_00173_42311_1532.N1	03-APR-2010 22:46:49	Tw_i_and_stray	45.000	106	9Bet Crv	2.6480	5600.0	90	42311	No
114	GOM_TRA_1PNPDE20100403_224844_000000442088_00173_42311_1533.N1	03-APR-2010 22:48:44	Tw_i_and_stray	43.500	100	4Gam Crv	2.5800	13100.	87	42311	No
115	GOM_TRA_1PNPDE20100403_225028_000000632088_00173_42311_1534.N1	03-APR-2010 22:50:28	Bright	62.500	15	67Alp Vir	0.97600	28000.	125	42311	No
116	GOM_TRA_1PNPDE20100403_225340_000000432088_00173_42311_1535.N1	03-APR-2010 22:53:40	Bright	43.000	121	29Gam Vir	2.7400	7200.0	86	42311	No
117	GOM_TRA_1PNPDE20100403_225818_000000382088_00173_42311_1536.N1	03-APR-2010 22:58:18	Bright	38.000	62	94Bet Leo	2.1360	9700.0	76	42311	No
118	GOM_TRA_1PNPDE20100403_230637_000000422088_00173_42311_1537.N1	03-APR-2010 23:06:37	Bright	41.500	152	12Alp2CVn	2.8900	11000.	83	42311	No
119	GOM_TRA_1PNPDE20100403_230941_000000372088_00173_42311_1538.N1	03-APR-2010 23:09:41	Bright	36.500	87	64Gam UMa	2.4330	11000.	73	42311	No
120	GOM_TRA_1PNPDE20100403_231124_000000412088_00173_42311_1539.N1	03-APR-2010 23:11:24	Bright	40.500	32	77Eps UMa	1.7630	11000.	81	42311	No
121	GOM_TRA_1PNPDE20100403_231746_000000372088_00173_42311_1540.N1	03-APR-2010 23:17:46	Bright	37.000	60	7Bet UMi	2.0810	3950.0	74	42311	No
122	GOM_TRA_1PNPDE20100403_232720_000000392088_00173_42311_1541.N1	03-APR-2010 23:27:20	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	42311	No
123	GOM_TRA_1PNPDE20100403_233214_000000492088_00173_42311_1542.N1	03-APR-2010 23:32:14	Bright	48.500	144	18Del Cyg	2.8600	11000.	97	42311	No
124	GOM_TRA_1PNPDE20100403_233413_000000472088_00173_42311_1543.N1	03-APR-2010 23:34:13	Bright	46.500	66	37Gam Cyg	2.2080	5900.0	93	42311	No
125	GOM_TRA_1PNPDE20100403_233619_000000462088_00173_42311_1544.N1	03-APR-2010 23:36:19	Bright	46.000	92	53Eps Cyg	2.5000	4500.0	92	42311	No
126	GOM_TRA_1PNPDE20100403_234259_000000462088_00173_42311_1545.N1	03-APR-2010 23:42:59	Tw_i_and_stray	45.500	61	8Eps Peg	2.1000	3900.0	91	42311	No
127	GOM_TRA_1PNPDE20100403_234738_000000442088_00173_42311_1546.N1	03-APR-2010 23:47:38	Dark	44.000	154	22Bet Aqr	2.8990	5700.0	88	42311	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.

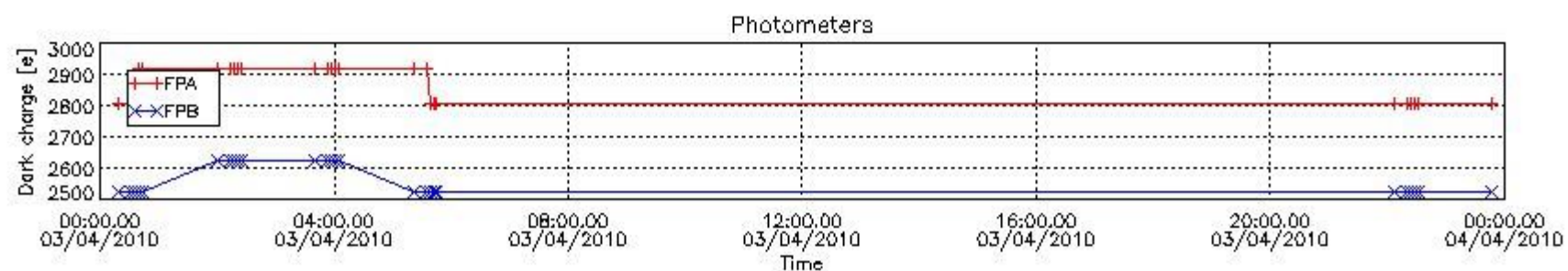
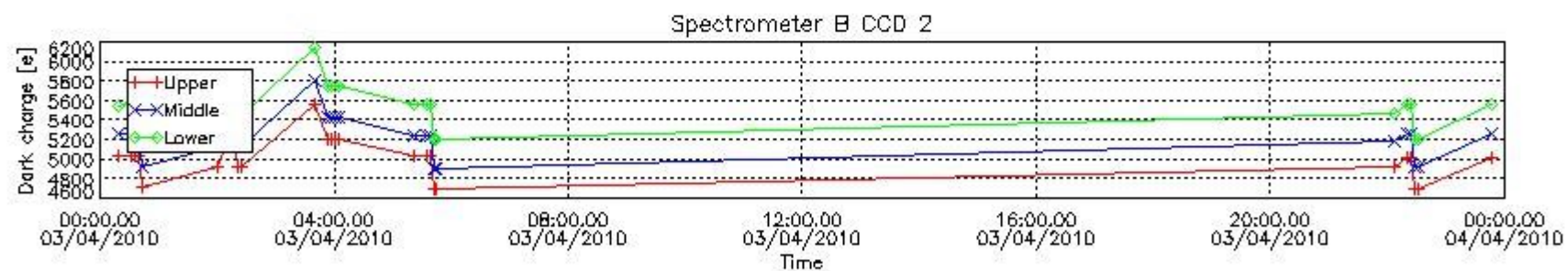
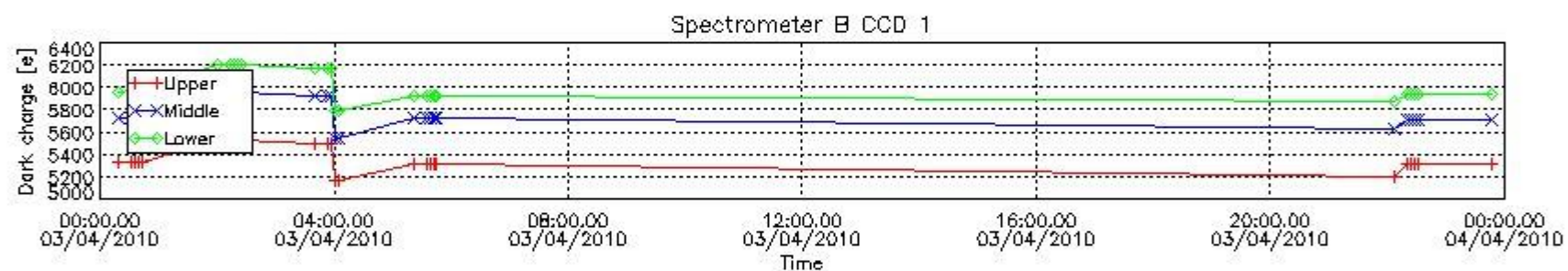
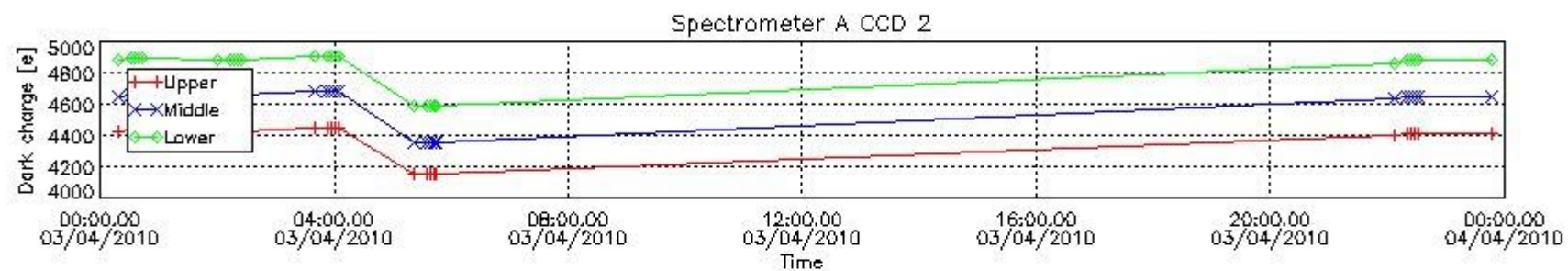
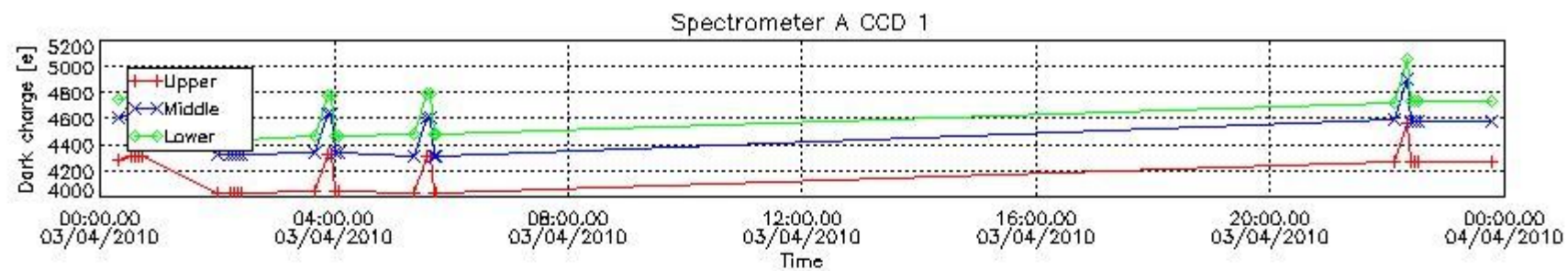
#### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20100403_205608_000000442088_00172_42310_1504.N1	DC map with no T dep.
GOM_TRA_1PNPDE20100403_205744_000000502088_00172_42310_1505.N1	DC map used
GOM_TRA_1PNPDE20100403_210024_000000462088_00172_42310_1506.N1	DC map used
GOM_TRA_1PNPDE20100403_210613_000000452088_00172_42310_1507.N1	DC map used
GOM_TRA_1PNPDE20100403_210809_000000432088_00172_42310_1508.N1	DC map used
GOM_TRA_1PNPDE20100403_210953_000000612088_00172_42310_1509.N1	DC map used
GOM_TRA_1PNPDE20100403_211304_000000432088_00172_42310_1510.N1	DC map used
GOM_TRA_1PNPDE20100403_211742_000000542088_00172_42310_1511.N1	DC map used
GOM_TRA_1PNPDE20100403_212602_000000422088_00172_42310_1512.N1	DC map used
GOM_TRA_1PNPDE20100403_212905_000000382088_00172_42310_1513.N1	DC map used
GOM_TRA_1PNPDE20100403_213048_000000422088_00172_42310_1514.N1	DC map used
GOM_TRA_1PNPDE20100403_213710_000000372088_00172_42310_1515.N1	DC map used



GOM_TRA_1PNPDE20100403_214644_000000382088_00172_42310_1516.N1	DC map used
GOM_TRA_1PNPDE20100403_215138_000000482088_00172_42310_1517.N1	DC map used
GOM_TRA_1PNPDE20100403_215338_000000472088_00172_42310_1518.N1	DC map used
GOM_TRA_1PNPDE20100403_215544_000000452088_00172_42310_1519.N1	DC map used
GOM_TRA_1PNPDE20100403_220223_000000452088_00172_42310_1520.N1	DC map used
GOM_TRA_1PNPDE20100403_220702_000000452088_00172_42310_1521.N1	DC map used

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



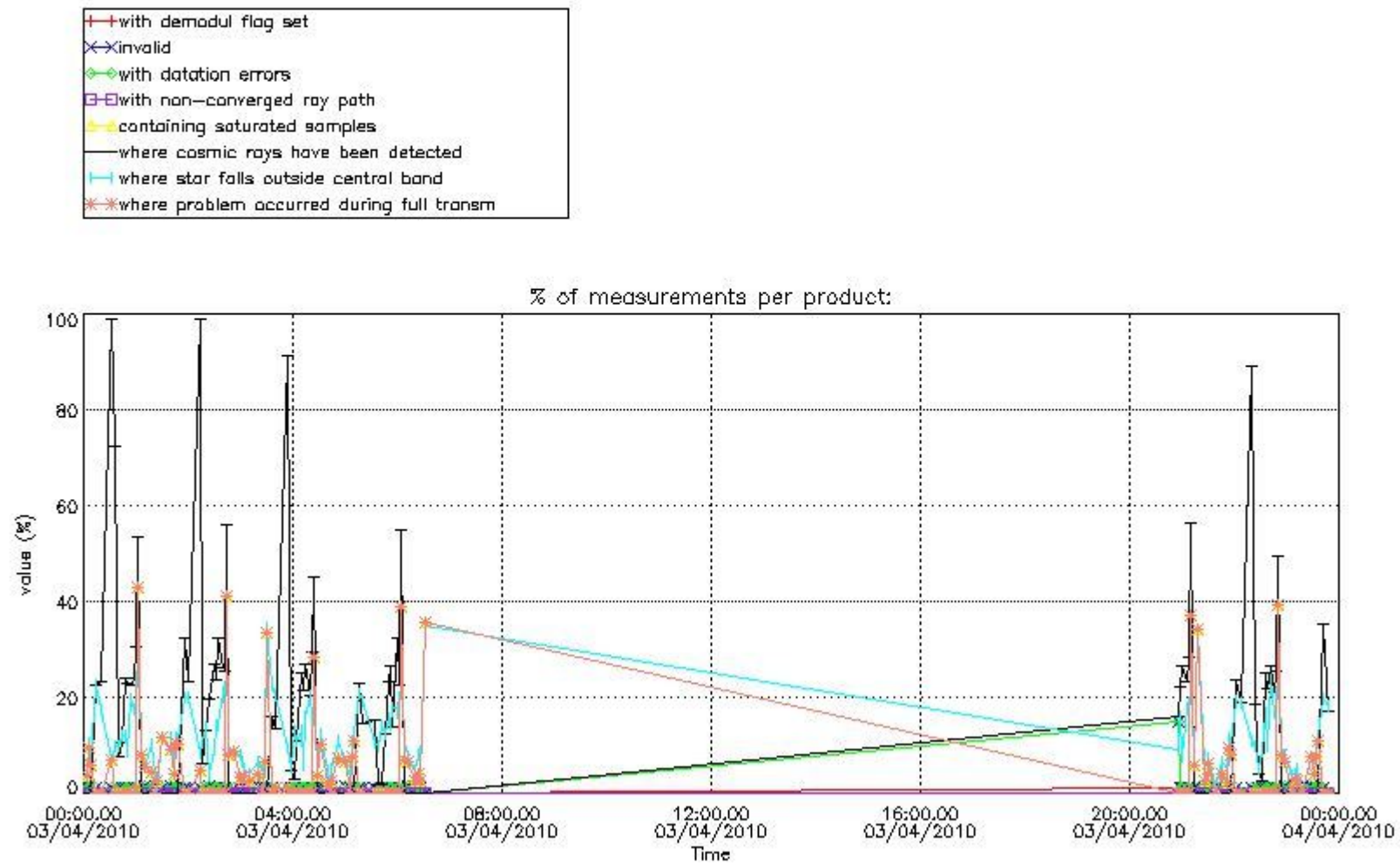
## 5. Demodulation flag and quality information monitoring

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:

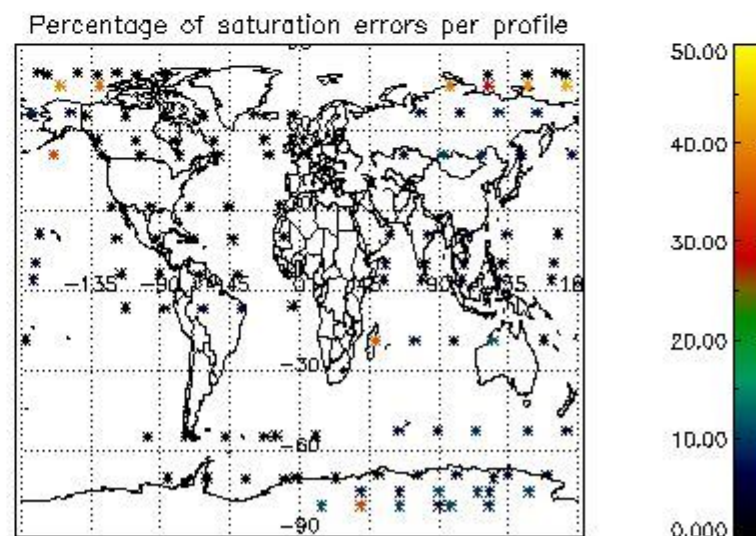
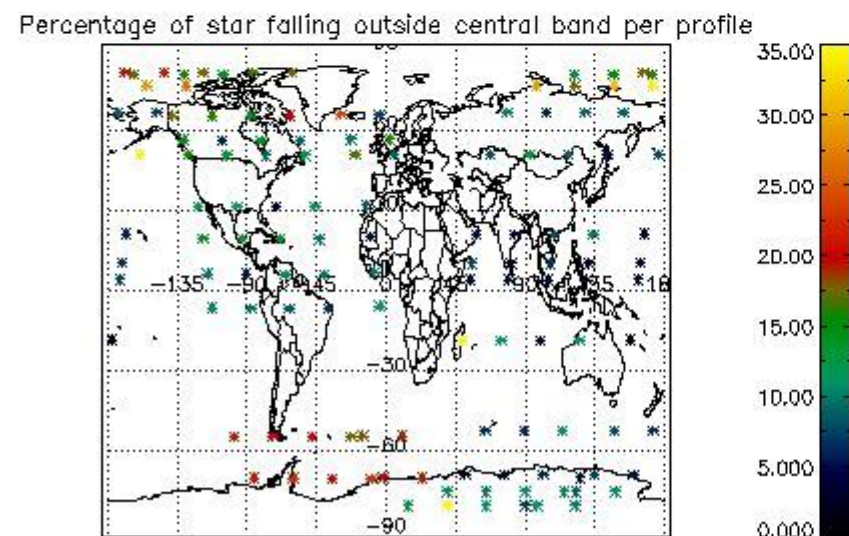
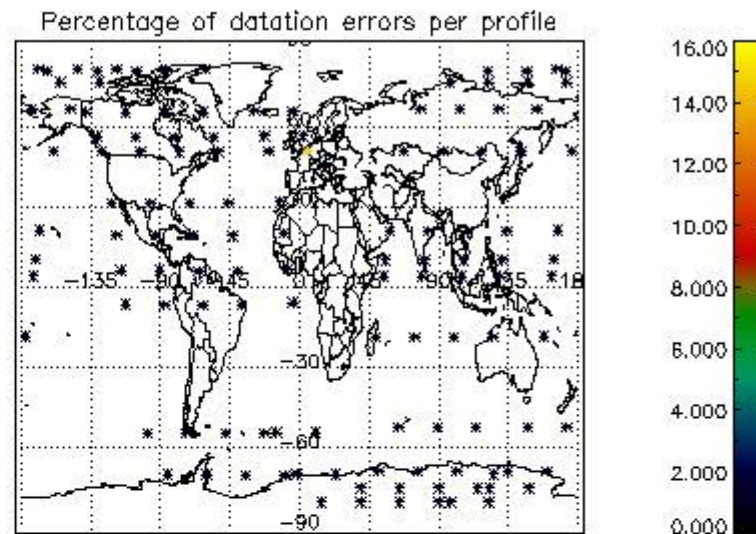
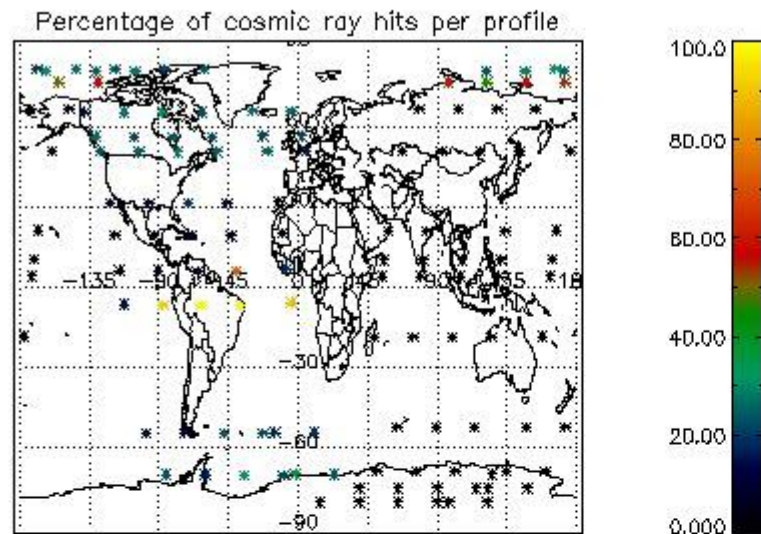
At least one measurement with demodulation flag set:	39.3701 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 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)

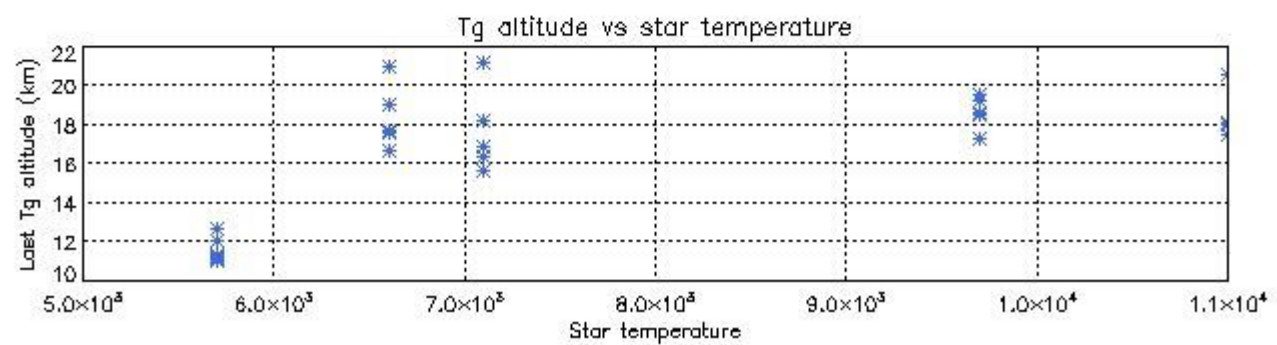
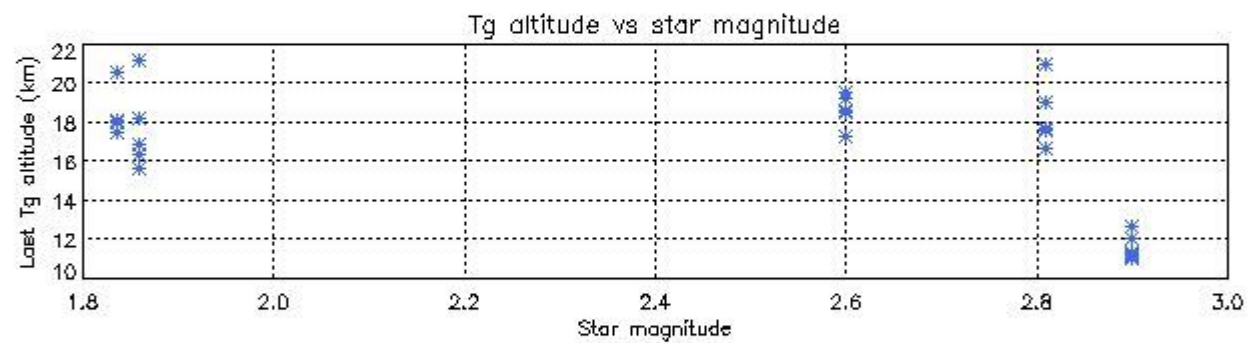
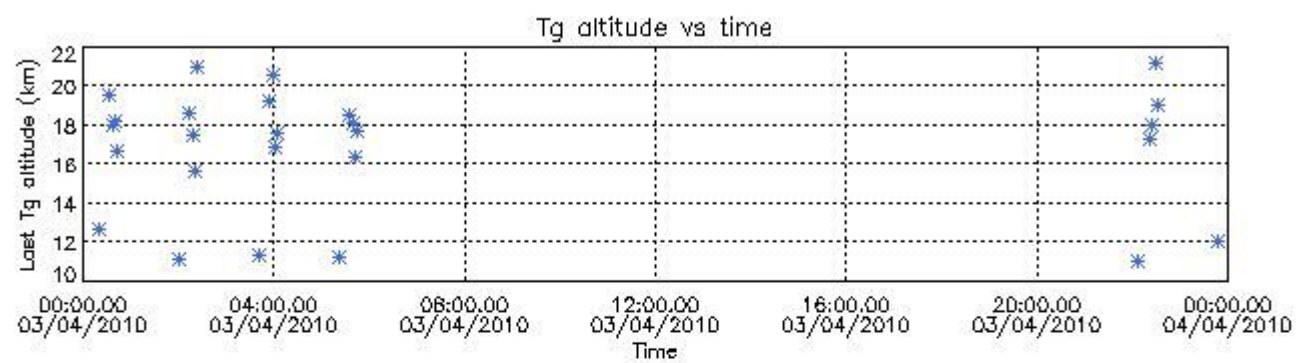
### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.735	18.433	NaN
St. deviation:	3.1723	5.5056	NaN
Maximum:	21.202	27.165	NaN
Minimum:	11.062	3.5601	NaN
Number of data:	26.000	65.000	NaN

### 6.2 Plot for DARK limb products

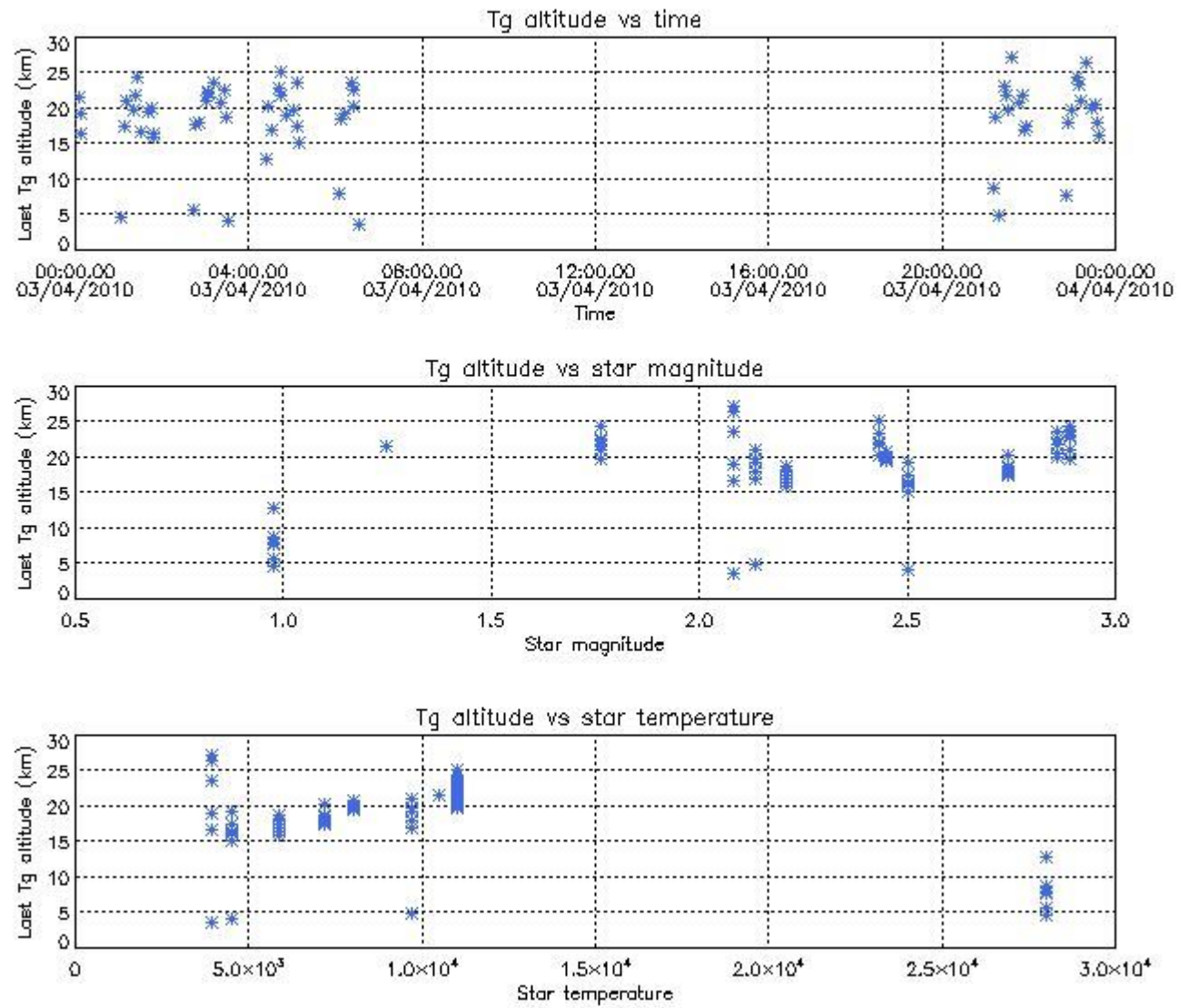


Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost

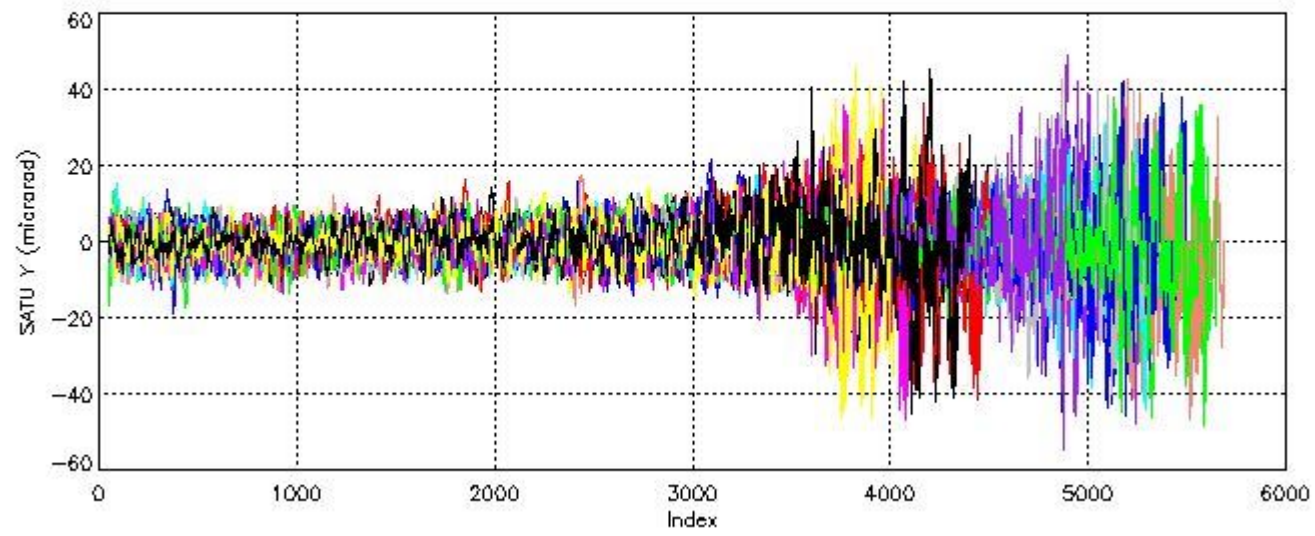
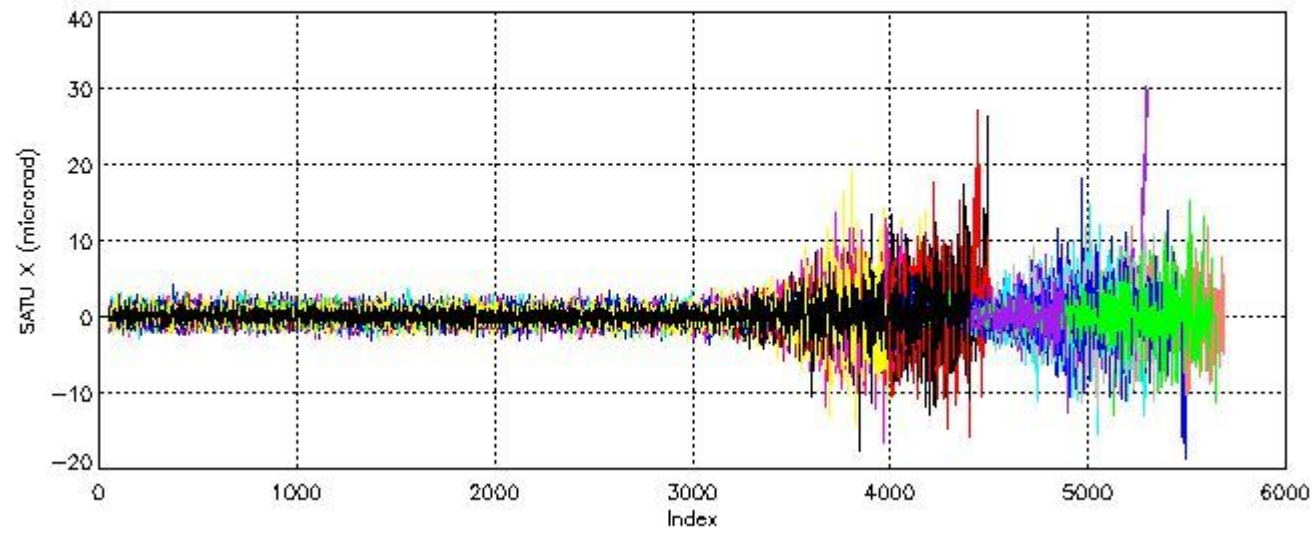


## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.15161	-0.62520	0.21270	-0.51788
St. deviation:	0.69582	3.4080	0.82083	3.1405
Maximum:	4.2000	15.100	6.0000	15.200
Minimum:	-2.9000	-18.700	-5.6000	-15.200



Number of data:	28950.	28950.	64500.	64500.
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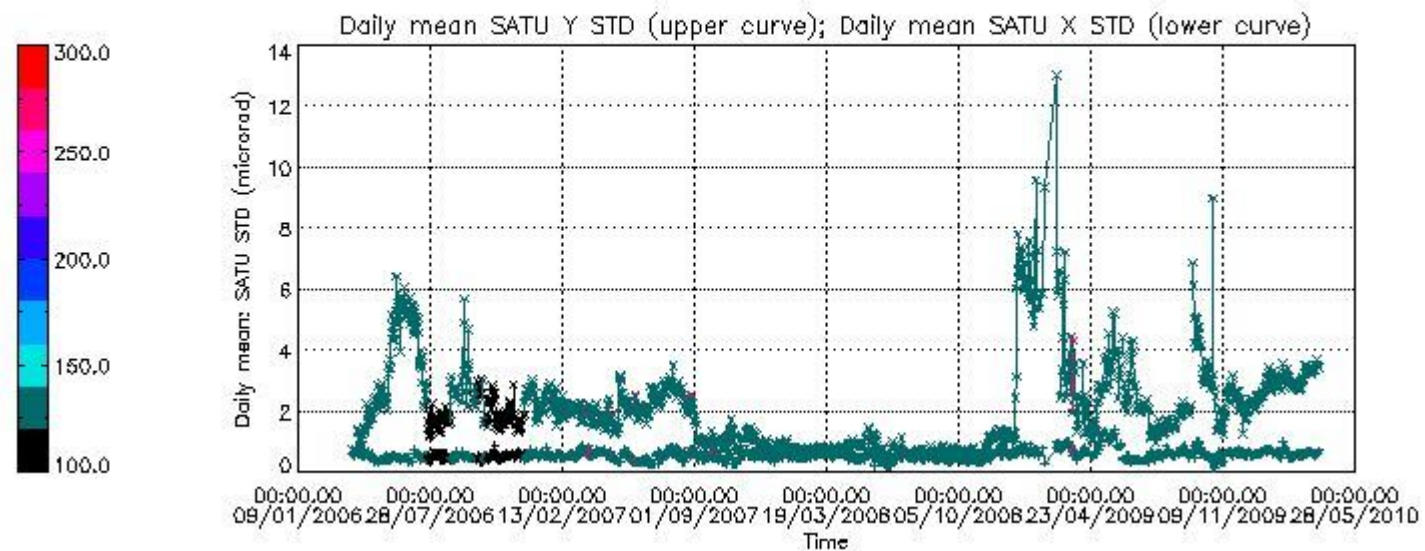
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

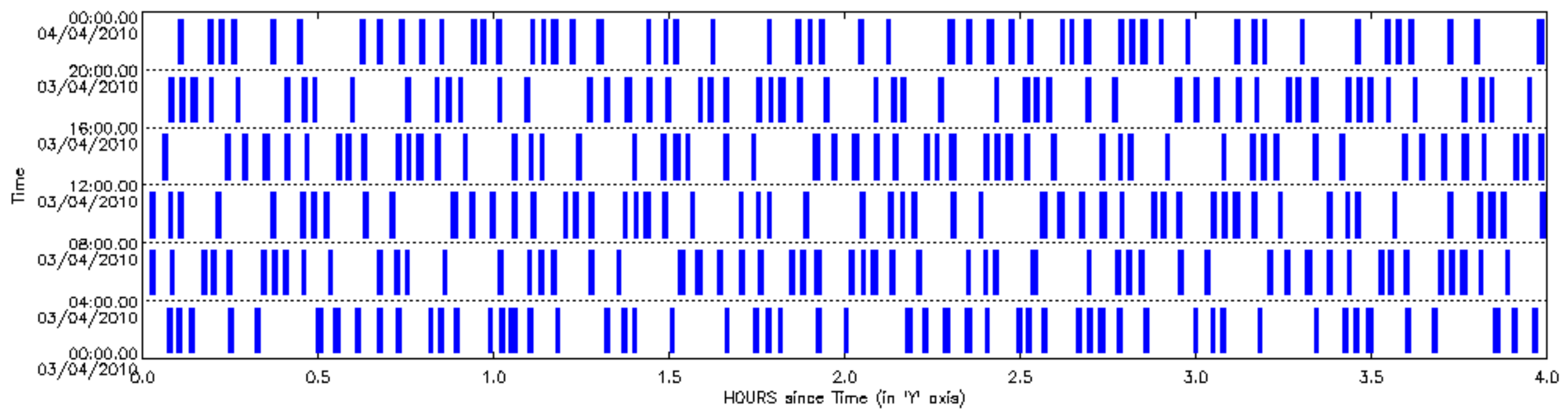
Lower curve: STD of SATU X axis

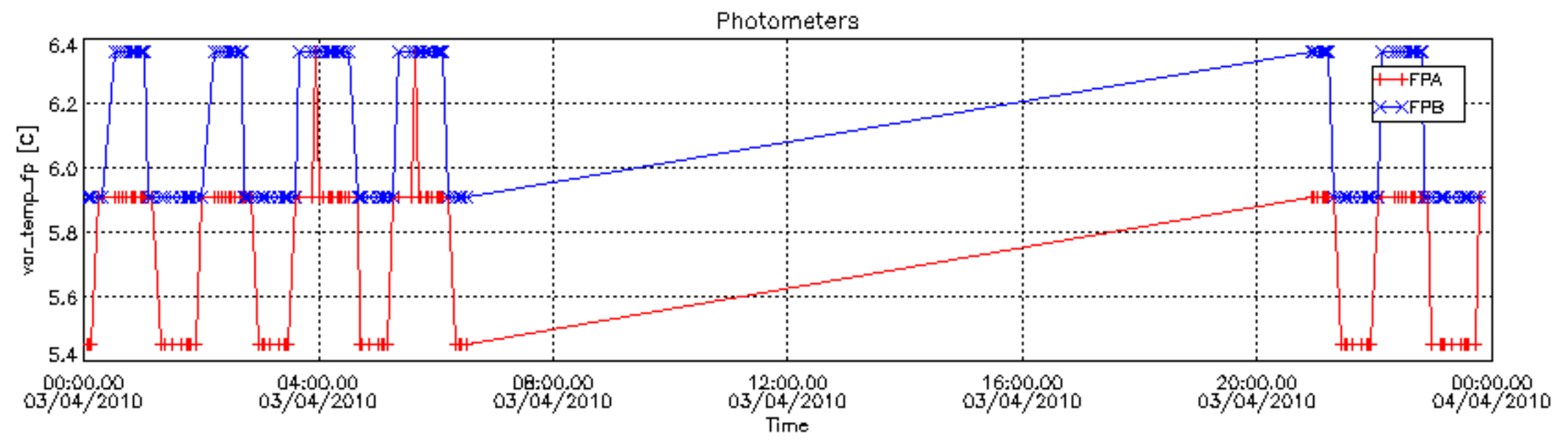
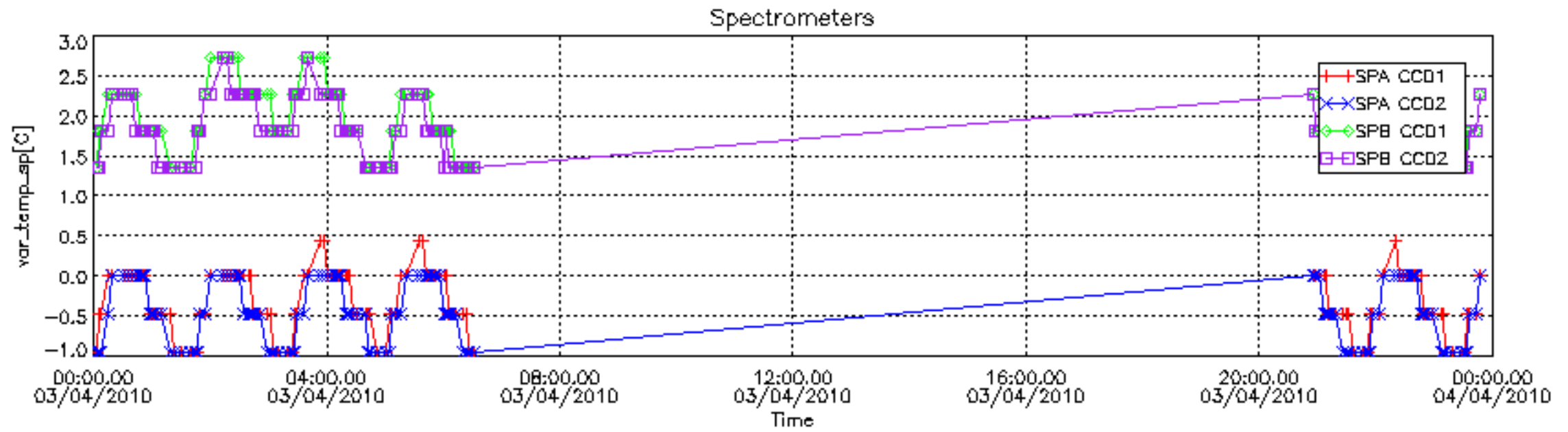


### 8. Auxiliary Data Files used for the production reported in section 2.4

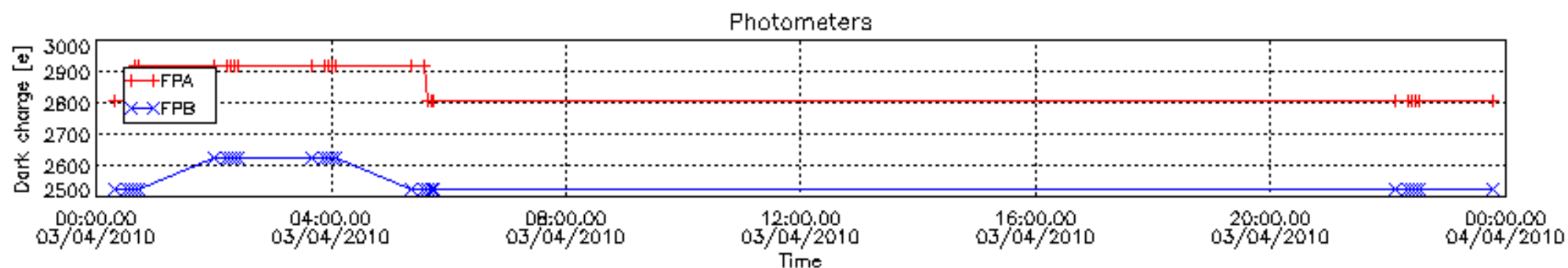
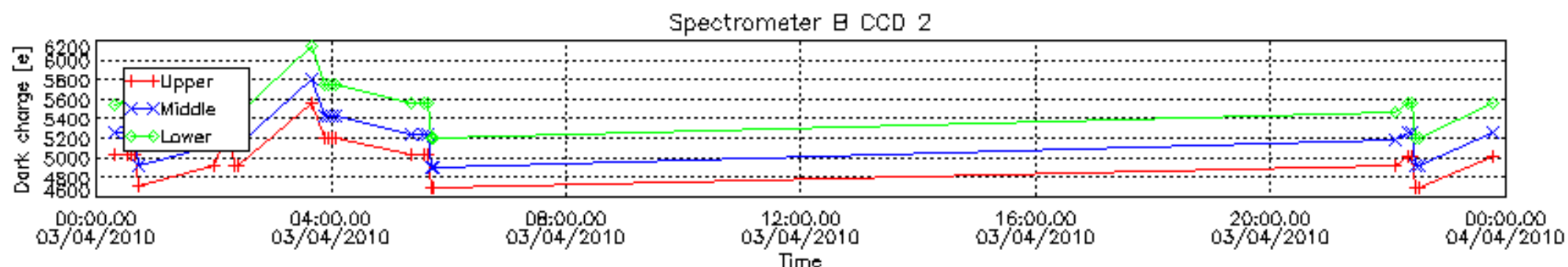
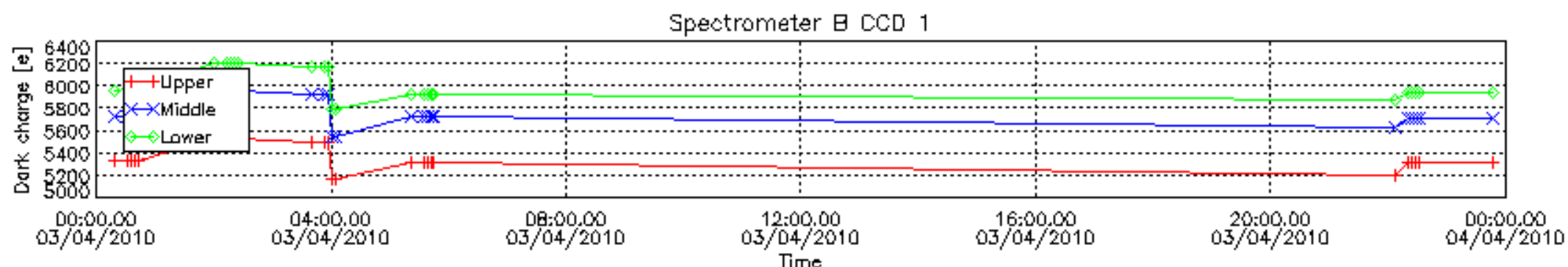
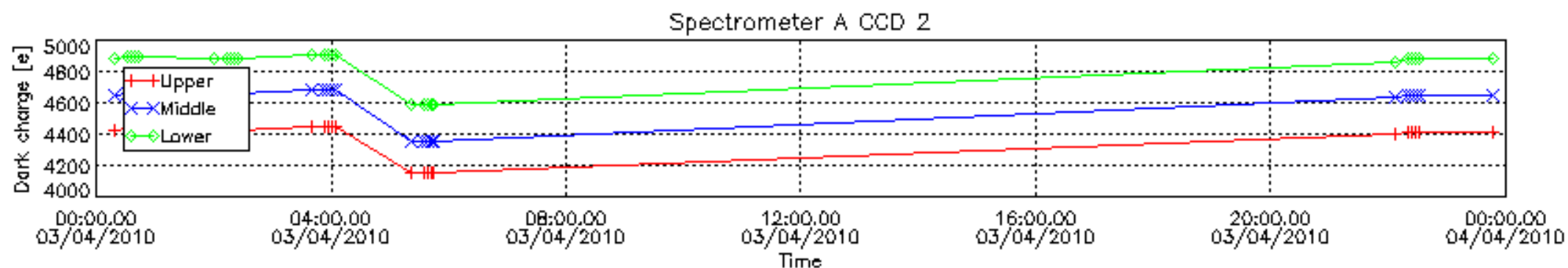
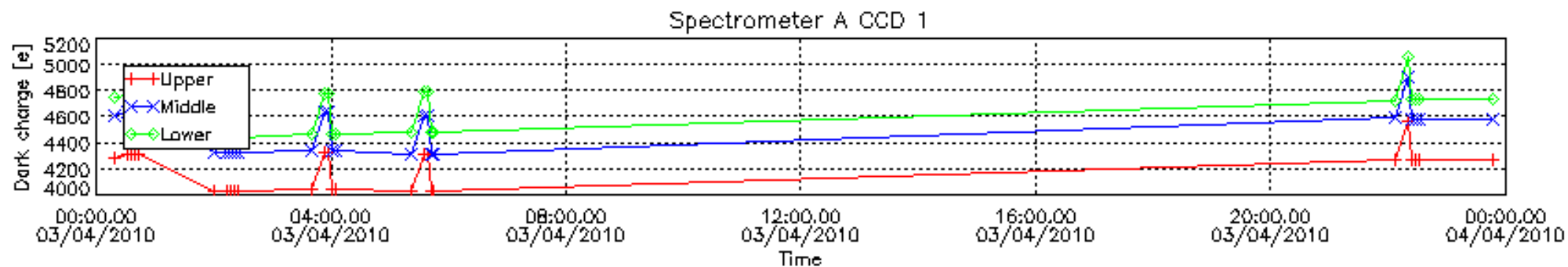
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

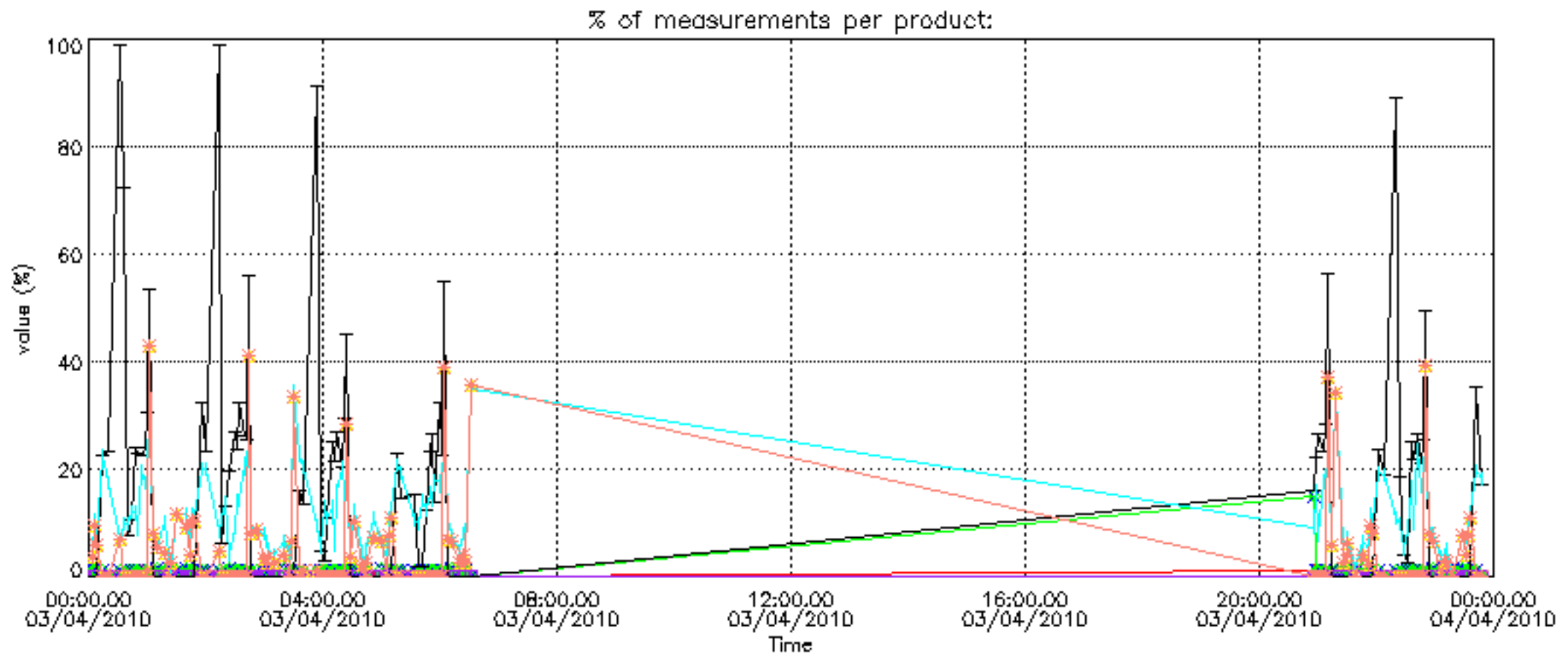
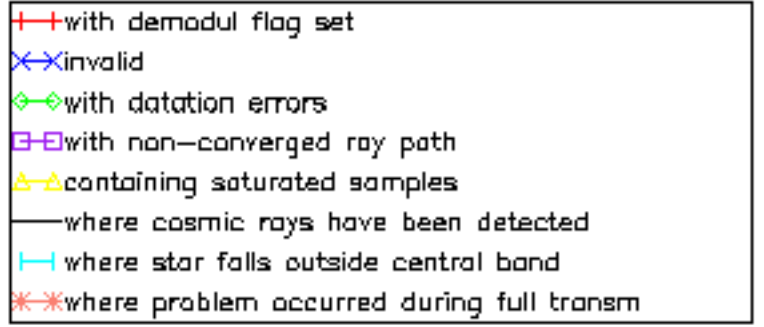
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	03-APR-2010 00:04:11
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100330_083348_20100328_000000_20500101_000000	1	03-APR-2010 00:04:11
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	03-APR-2010 00:04:11
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	03-APR-2010 00:04:11
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	03-APR-2010 00:04:11
ECMWF_FILE	AUX_ECF_AXNECM20100402_054117_20100402_210000_20100403_090000	1	03-APR-2010 00:04:11
ECMWF_FILE	AUX_ECF_AXNECM20100402_172119_20100403_030000_20100403_150000	44	03-APR-2010 03:20:10
ECMWF_FILE	AUX_ECA_AXNECM20100403_052117_20100402_210000_20100403_090000	66	03-APR-2010 05:00:46
ECMWF_FILE	AUX_ECF_AXNECM20100403_054117_20100403_150000_20100404_030000	88	03-APR-2010 20:56:08
ECMWF_FILE	AUX_ECF_AXNECM20100403_054117_20100403_210000_20100404_090000	106	03-APR-2010 22:20:45
OPTIONAL_ECMWF_FILE	MISSING	1	03-APR-2010 00:04:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100402_224019_000057382088_00158_42296_0086.N1	1	03-APR-2010 00:04:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100403_002116_000054192088_00159_42297_0087.N1	6	03-APR-2010 00:32:42
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100402_100117_20100401_182347_20100411_213036	27	03-APR-2010 01:59:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100403_031117_000057382088_00161_42299_0089.N1	44	03-APR-2010 03:20:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100403_045214_000057382088_00162_42300_0090.N1	66	03-APR-2010 05:00:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100403_205355_000041442088_00172_42310_0091.N1	88	03-APR-2010 20:56:08
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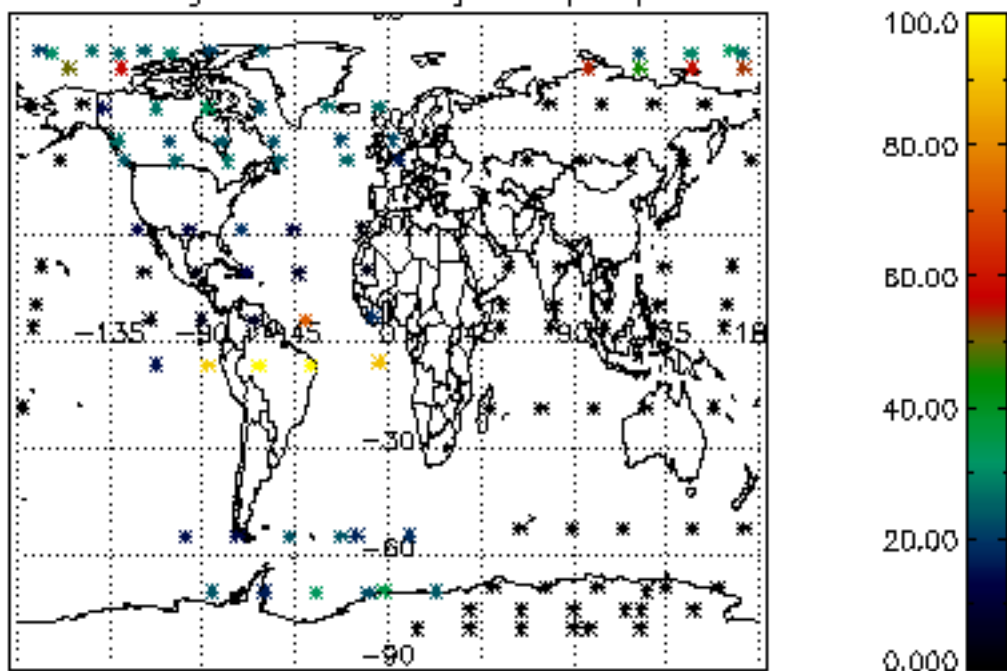




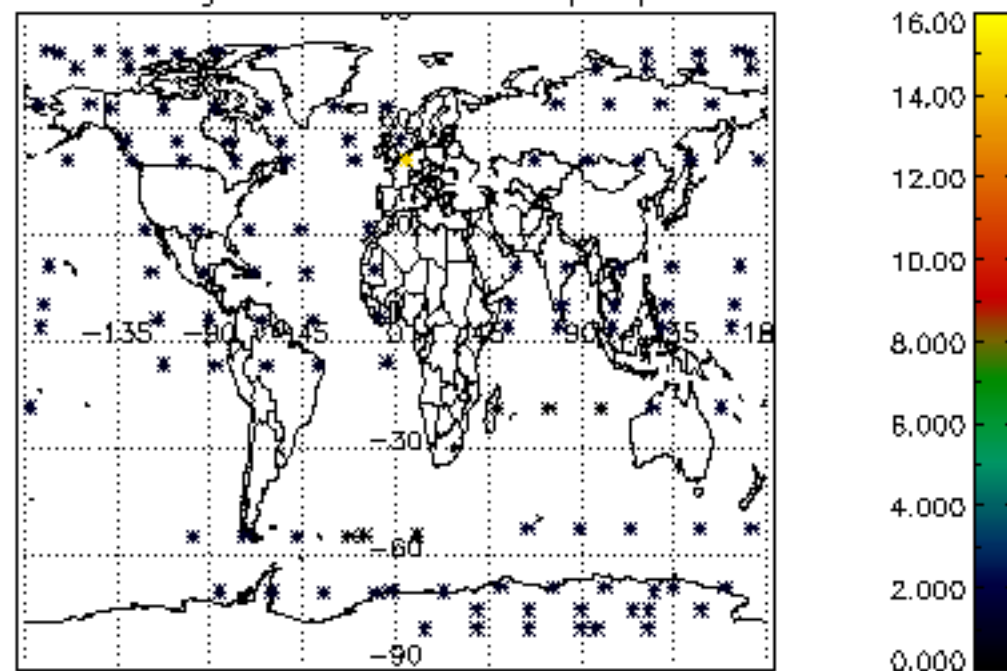




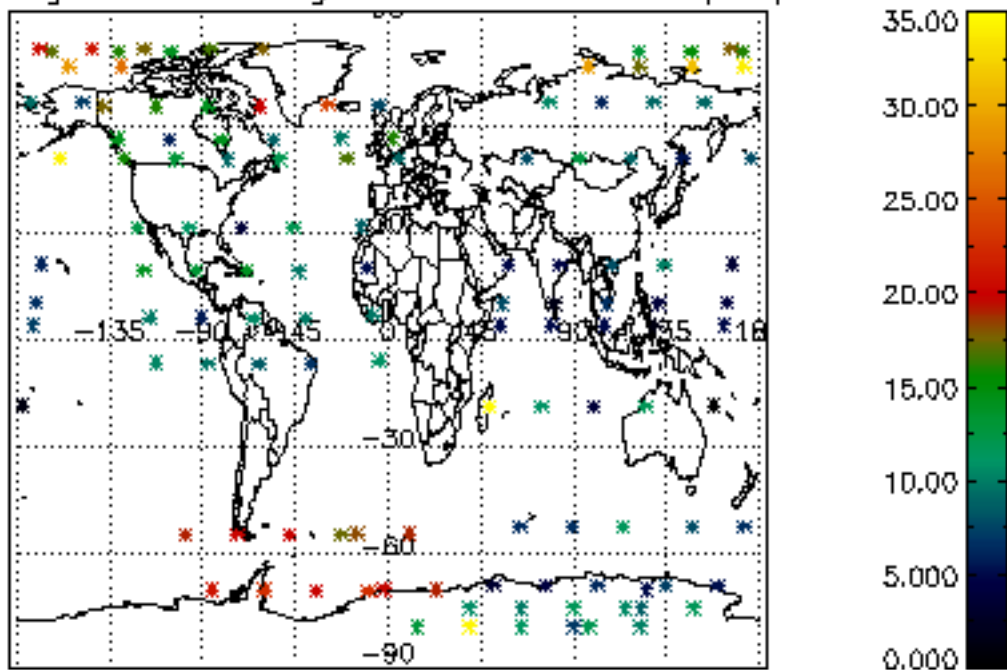
Percentage of cosmic ray hits per profile



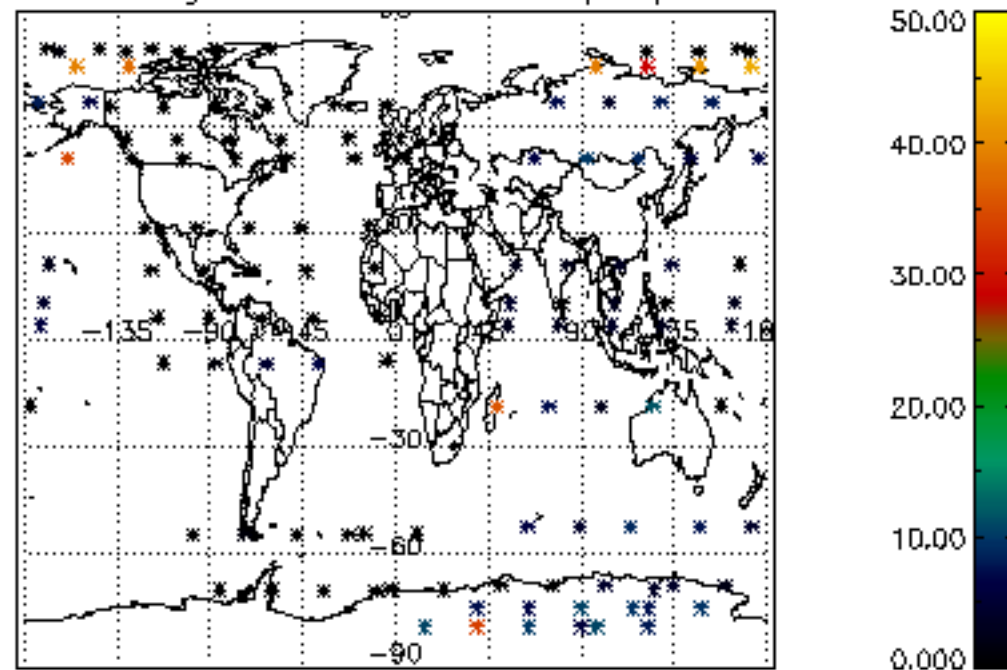
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

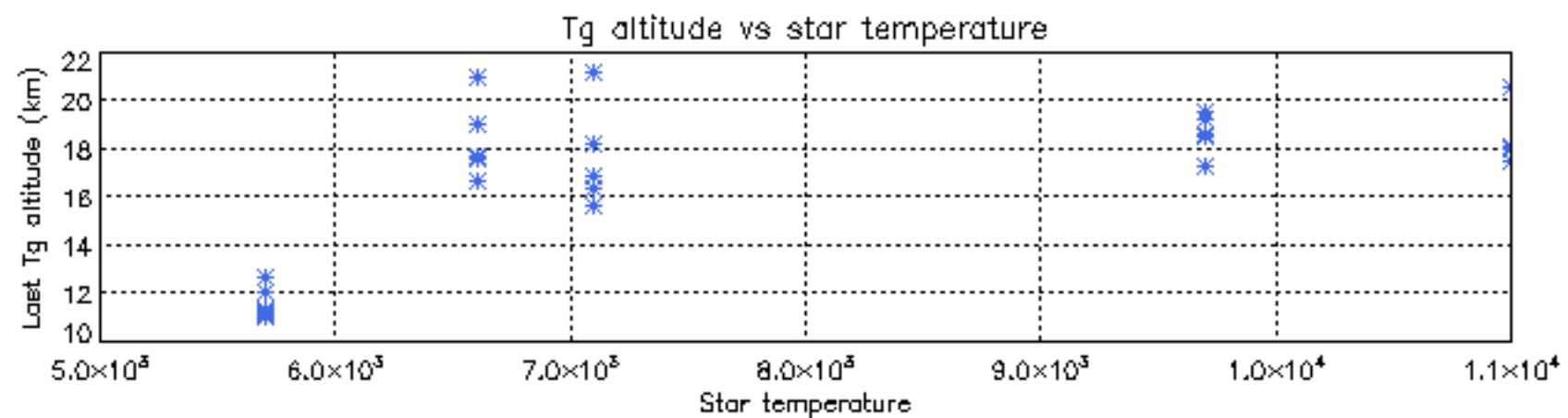
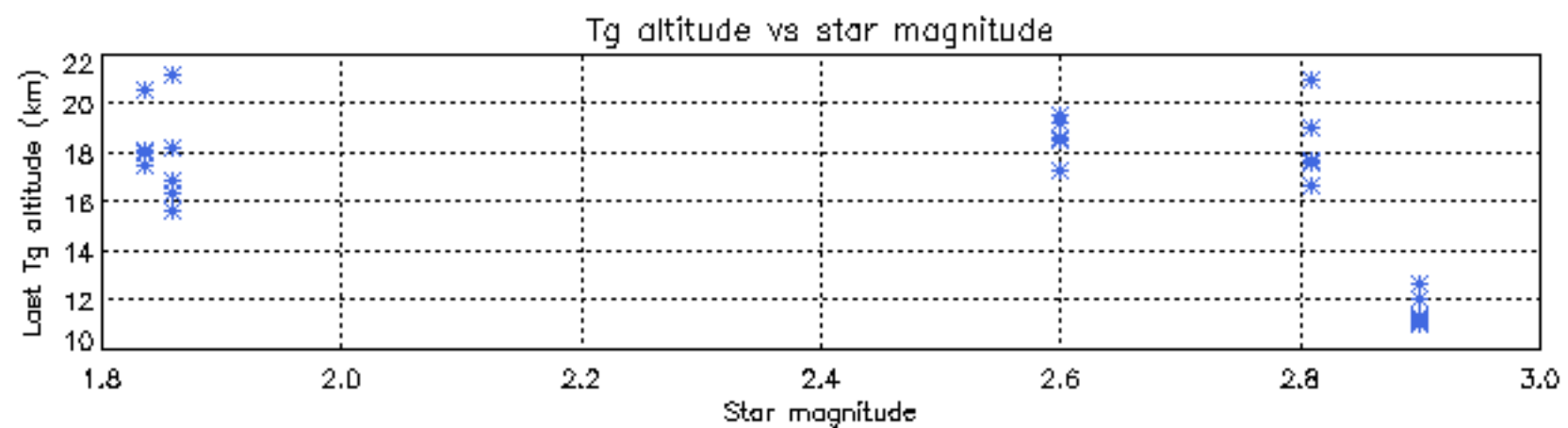
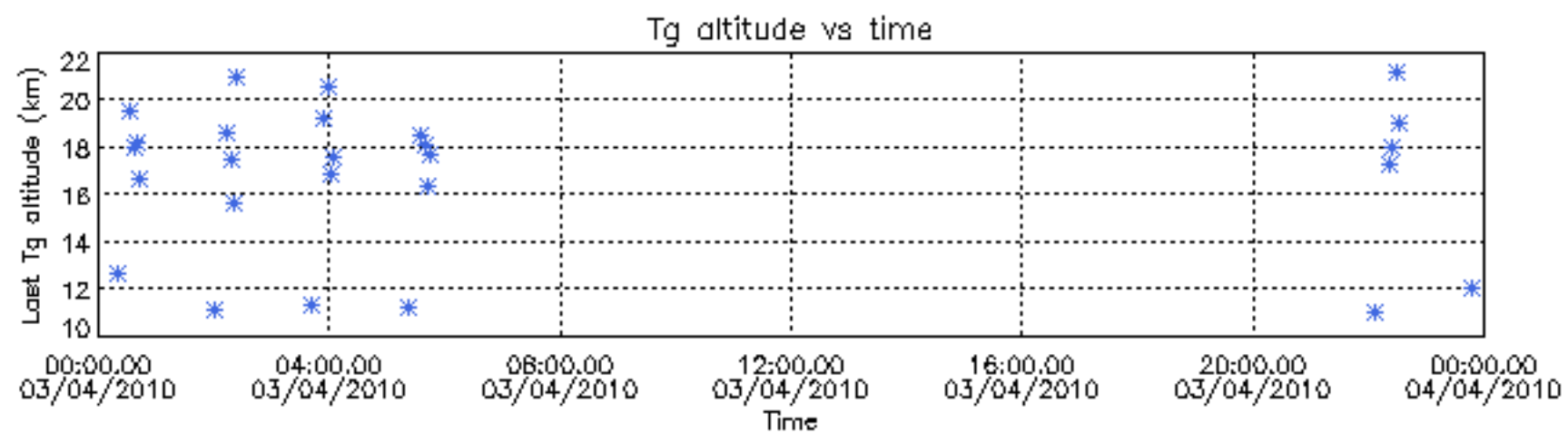


Percentage of saturation errors per profile

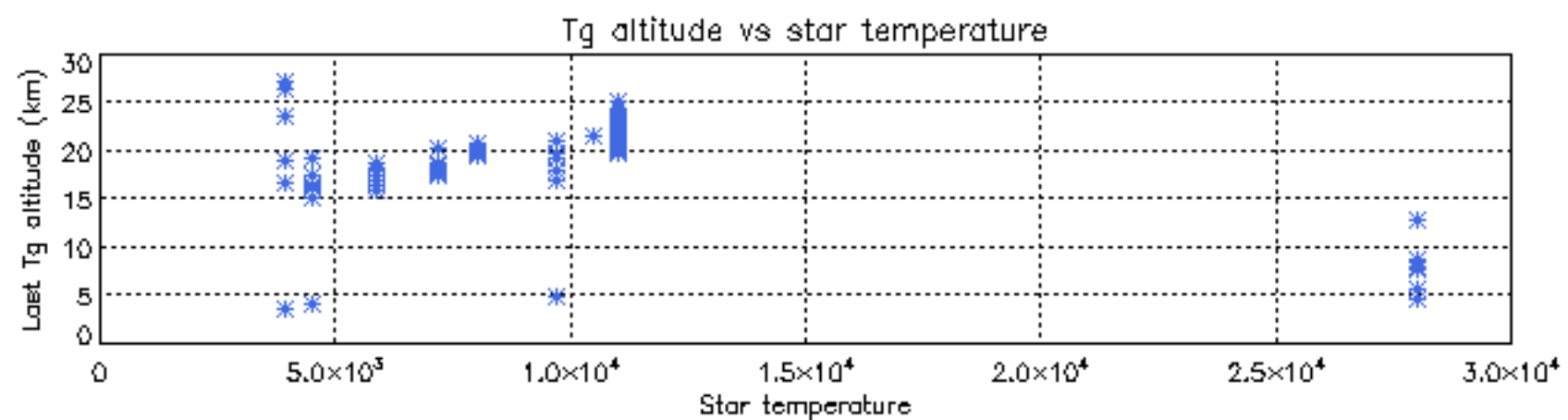
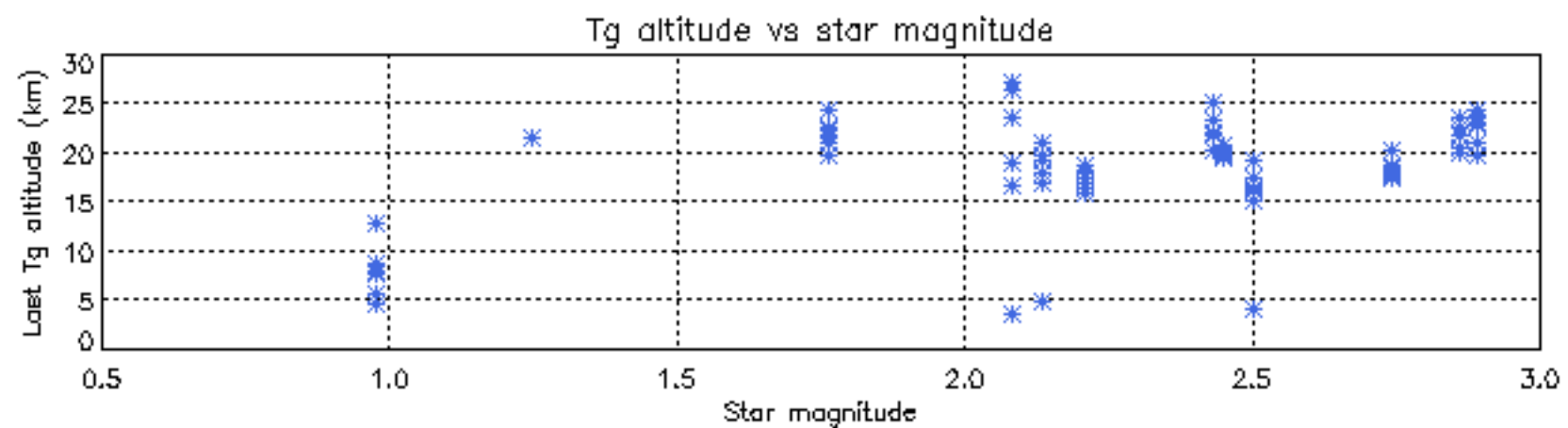
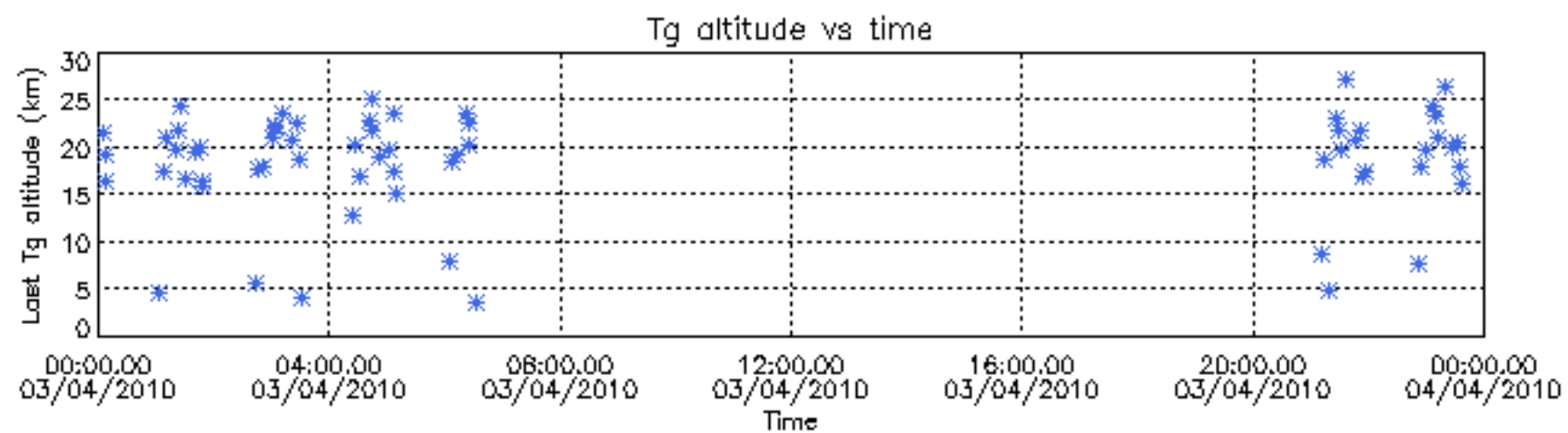


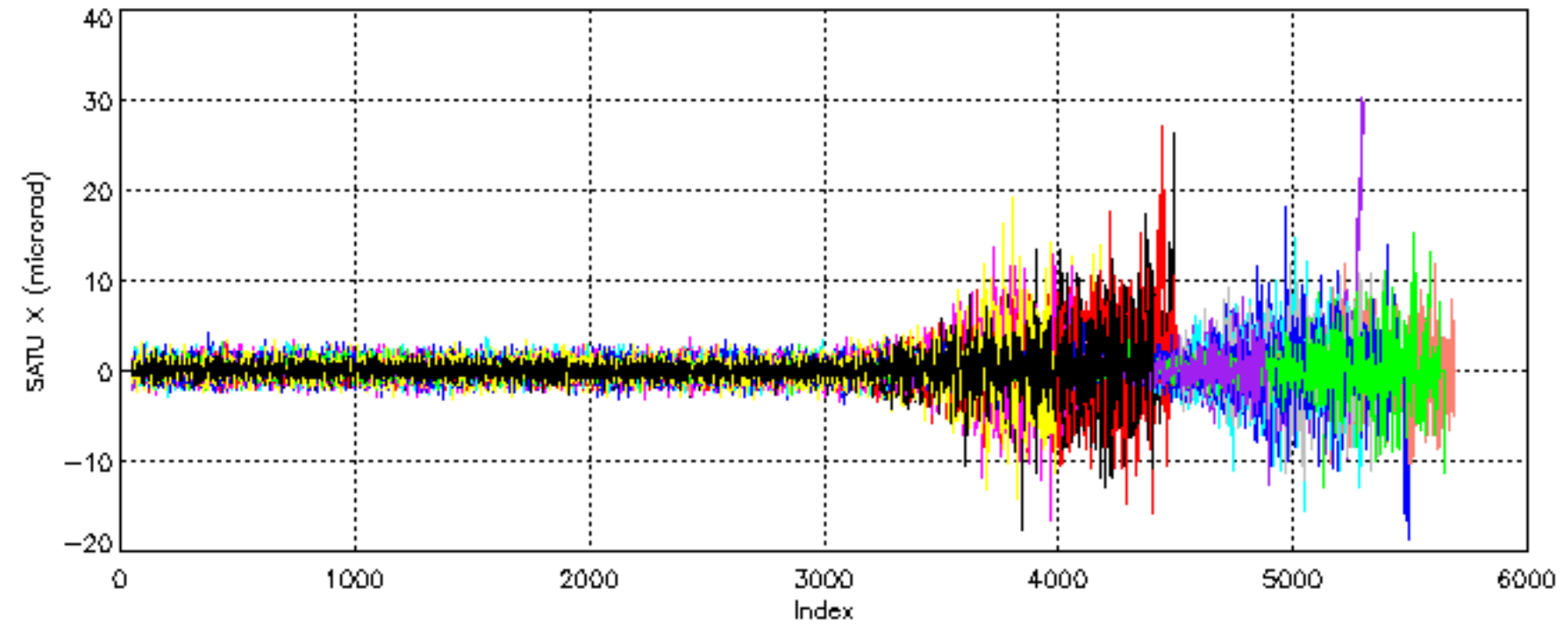


Tangent altitude at which the star is lost

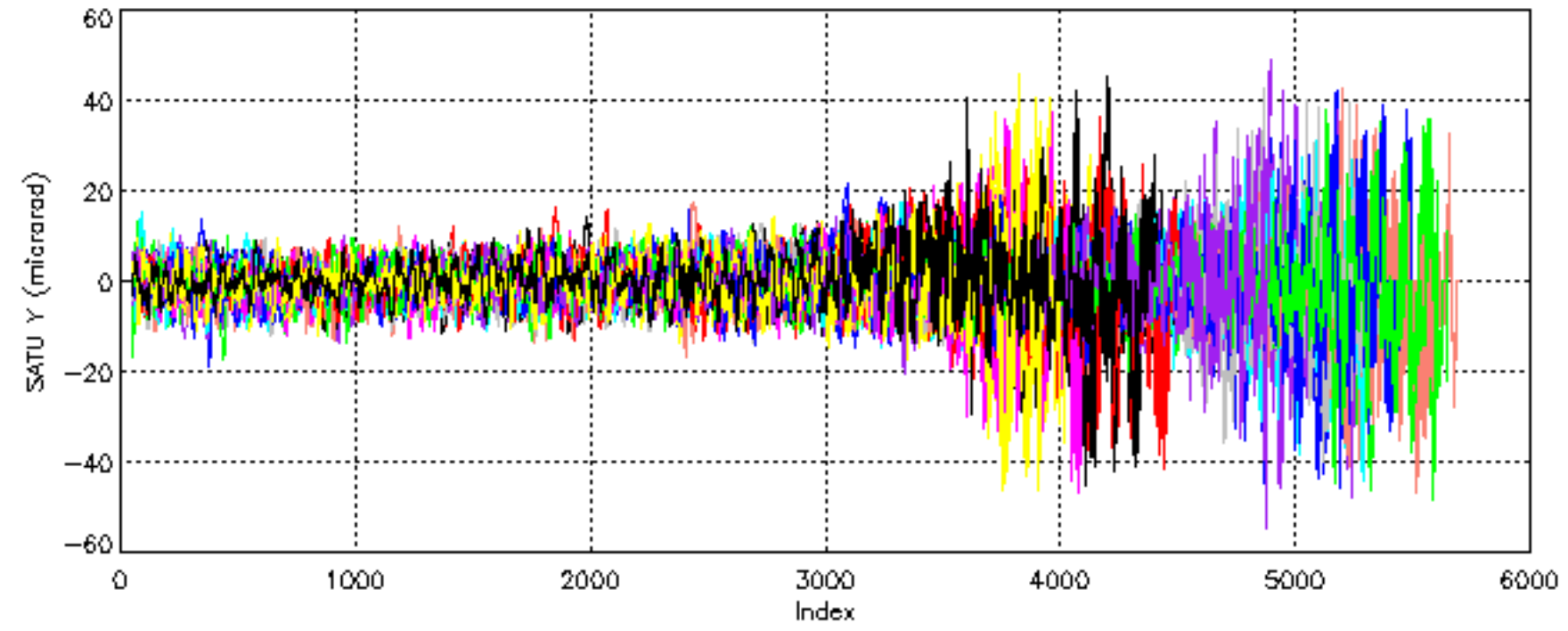


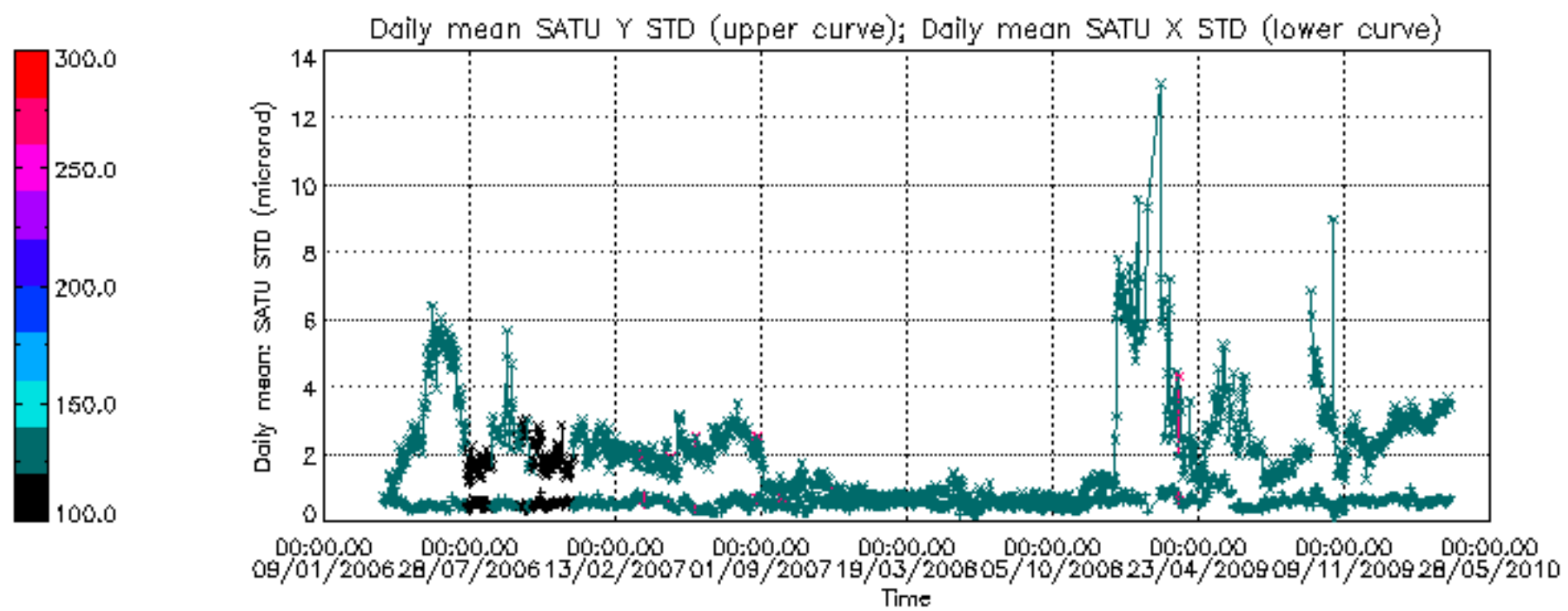
Tangent altitude at which the star is lost











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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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 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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 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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 9; 515.9; 01-APR-2010 03:27:00; Dark ; 40.5; 134; Bet TrA ; 2.81; 6600;occ; 81; 0;42271  
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 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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3; 82.4; 01-APR-2010 23:26:58; Dark ; 55.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 110; 0;42283
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5; 522.1; 01-APR-2010 23:34:17; Dark ; 40.0; 134; Bet TrA ; 2.81; 6600;occ; 80; 0;42283
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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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 19; 6973.6; 01-APR-2010 10:16:26; Dark ; 50.0; 81; Eta Cen ; 2.36; 28000;occ; 100; 0;42275  
 20; 7137.3; 01-APR-2010 10:19:09; Dark ; 58.0; 54; 5The Cen ; 2.06; 4500;occ; 116; 0;42275  
 21; 7497.0; 01-APR-2010 10:25:09; Dark ; 47.5; 106; 9Bet Crv ; 2.65; 5600;occ; 95; 0;42275  
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 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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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
9; 841.9; 01-APR-2010 11:55:26; Dark ; 46.0; 78; Alp Lup ; 2.30; 28000;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
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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
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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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11; 4312.9; 01-APR-2010 14:33:52; Bright; 42.5; 66; 37Gam Cyg ; 2.21; 5900;occ; 85; 0;42277
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 8; 2807.4; 22-APR-2010 14:48:59; Bright; 41.0; 39; 85Eta UMa ; 1.85; 24000;occ; 82; 0;42578  
 9; 3246.9; 22-APR-2010 14:56:18; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;42578



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13; 4948.4; 22-APR-2010 15:24:40; Dark ; 55.5; 61; 8Eps Peg ; 2.10; 3900;occ; 111; 0;42578
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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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 9; 2806.4; 22-APR-2010 18:10:10; Bright; 40.5; 39; 85Eta UMa ; 1.85; 24000;occ; 81; 0;42580
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 8; 2568.7; 22-APR-2010 19:46:48; Bright; 36.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 73; 0;42581
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 5; 107.0; 22-APR-2010 20:46:22; Dark ; 39.5; 45; Alp Pav ; 1.94; 26000;occ; 79; 0;42582
 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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 4; 1578.0; 22-APR-2010 21:10:53; Bright; 51.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 103; 0;42582
 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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 13; 4489.7; 22-APR-2010 21:59:25; Bright; 41.0; 164; 44Eta Peg ; 2.95; 5400;occ; 82; 0;42582  
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 22; 5143.3; 27-APR-2010 22:53:25; Dark ; 51.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 103; 0;42654  
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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; 3836.9; 29-APR-2010 01:21:14; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 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  
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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
15; 5027.3; 30-APR-2010 19:36:03; Dark ; 67.5; 61; 8Eps Peg ; 2.10; 3900;occ; 135; 0;42695
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
20; 6668.9; 30-APR-2010 20:03:24; Dark ; 44.5; 141; Bet Ara ; 2.84; 4600;occ; 89; 0;42696
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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