GOMOS Daily Report 03-JAN-2011

Level 0 and Level 1 products

SUMMARY

1. General Info

2. Summary of products arrived in PCF (Product Control Facility)
   - 2.1 Level 0: products arrived in PCF during current month (see template here)
   - 2.2 Level 0: plot of mission plan versus production during reporting period
   - 2.3 Level 0: summary of missing occultations with respect to the plan
   - 2.4 Level 1: products arrived in PCF during reporting period

3. Plot of Spectrometers and Photometers temperatures

4. Dark Charge monitoring
   - 4.1 Products that did not use the Dark Sky Area observation for DC computation
   - 4.2 Plot of Dark Charge

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   - 5.1 Percentage of products with some flags set
   - 5.2 Plot of quality information per product (time dependant)
   - 5.3 Plot of quality information per product (world map)

6. Star tangent altitude lost
   - 6.1 Statistics on star tangent altitude lost
   - 6.2 Plot of star tangent altitude lost: DARK products
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7. Star Acquisition and Tracking Unit (SATU)
   - 7.1 SATU plots (dark limb): 'X' and 'Y' axis
   - 7.2 SATU Noise Equivalent Angle statistics
     - 7.2.1 SATU NEA Statistics (table)
       - 7.2.2 Daily SATU NEA STD (dark limb) - trend since 1st April 2006

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

Level 2 products

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1. General Info

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.

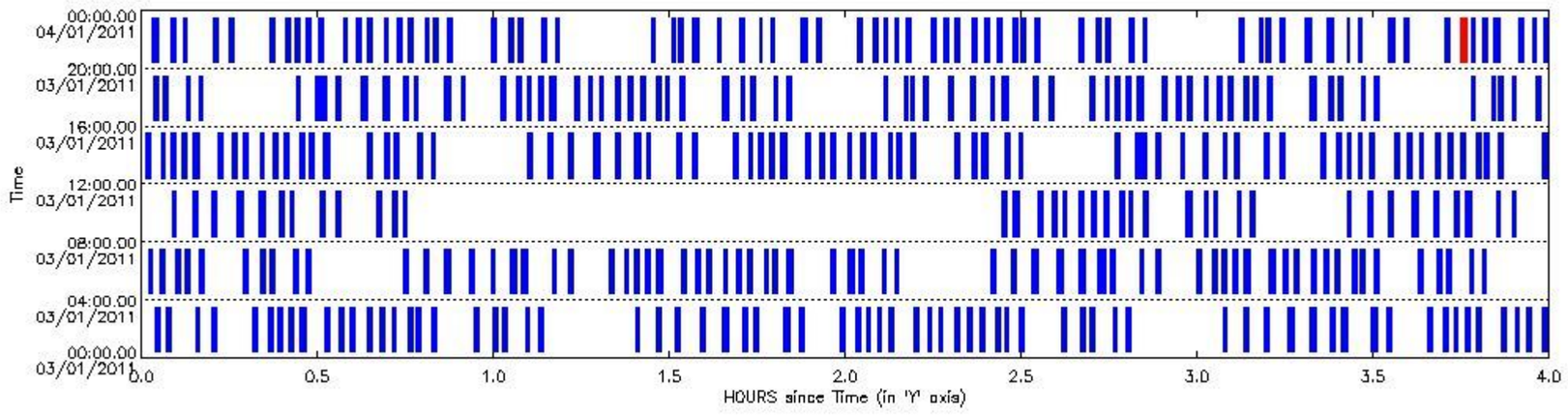
Item	Value
Time of report generation	06JAN2011 05:07:30
Data source version	GOMOS/5.01
Start time of products	03JAN2011 00:02:11
Stop time of products	03JAN2011 23:59:01
Store outputs in DB	Yes
Nb of level 1b prods	159
Nb of prods with errors	2

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
03-JAN-2011 23:44:57	ZetCen	95	46251

2.4 Summary of processed GOM_TRA_1P products

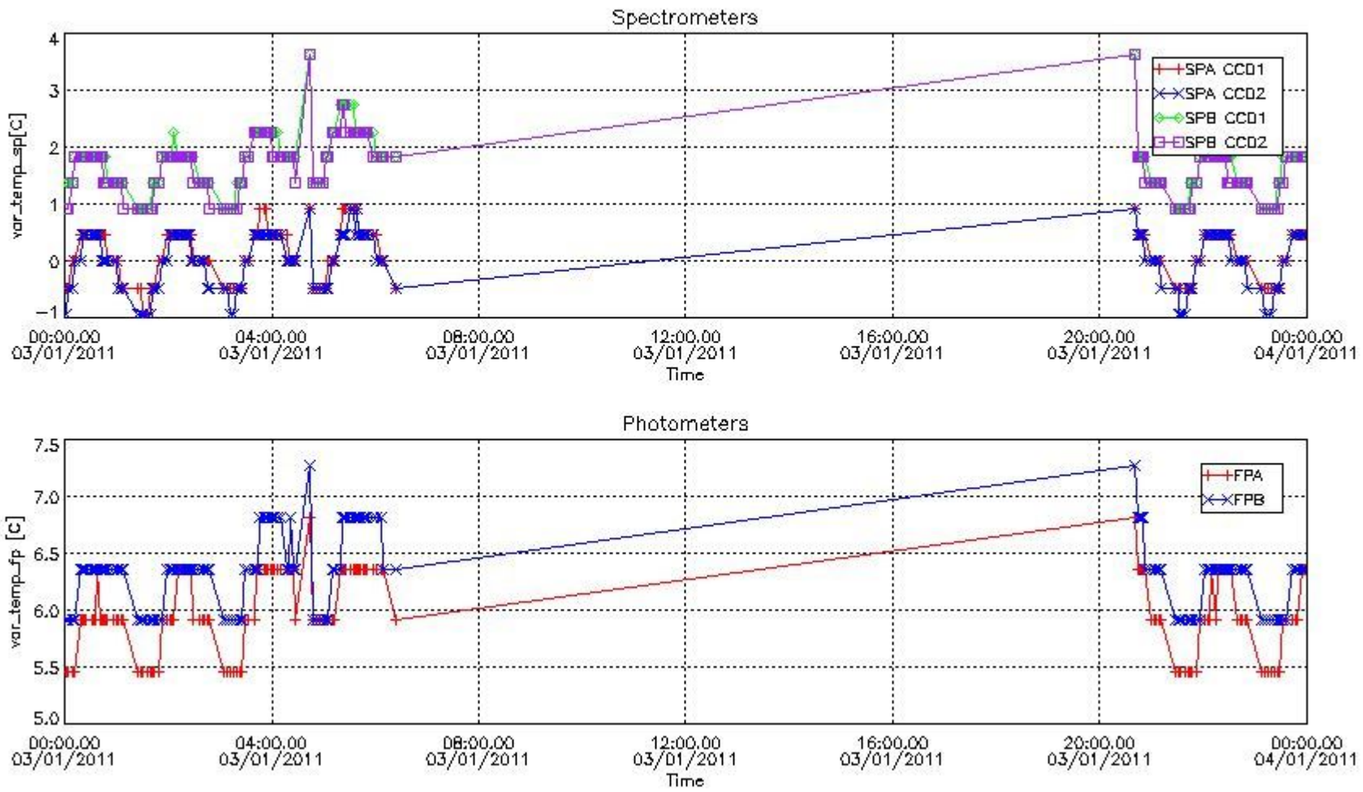
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20110103_000211_000000563098_00102_46237_1157.N1	03-JAN-2011 00:02:11	Bright	56.000	3	16Alp Boo	-0.050000	4250.0	112	46237	No
2	GOM_TRA_1PNPDE20110103_000408_000000553098_00102_46237_1158.N1	03-JAN-2011 00:04:08	Bright	55.000	102	24Alp Ser	2.6000	4250.0	110	46237	No
3	GOM_TRA_1PNPDE20110103_000915_000000373098_00102_46237_1159.N1	03-JAN-2011 00:09:15	Bright	37.000	104	27Bet Lib	2.6140	13100.	74	46237	No
4	GOM_TRA_1PNPDE20110103_001158_000000483098_00102_46237_1178.N1	03-JAN-2011 00:11:58	Twi_and_stray	48.000	122	9Alp2Lib	2.7470	9700.0	96	46237	No
5	GOM_TRA_1PNPDE20110103_001853_000000533098_00102_46237_1179.N1	03-JAN-2011 00:18:53	Dark	52.500	54	5The Cen	2.0550	4500.0	105	46237	No
6	GOM_TRA_1PNPDE20110103_002135_000000433098_00102_46237_1180.N1	03-JAN-2011 00:21:35	Dark	42.500	95	Zet Cen	2.5450	26000.	85	46237	No
7	GOM_TRA_1PNPDE20110103_002318_000000403098_00103_46238_1181.N1	03-JAN-2011 00:23:18	Dark	39.500	77	Eps Cen	2.3030	28000.	79	46238	No
8	GOM_TRA_1PNPDE20110103_002510_000000453098_00103_46238_1182.N1	03-JAN-2011 00:25:10	Dark	44.500	64	Gam Cen	2.2000	10600.	89	46238	No
9	GOM_TRA_1PNPDE20110103_003120_000000473098_00103_46238_1183.N1	03-JAN-2011 00:31:20	Dark	47.000	113	Mu Vel	2.6920	5000.0	94	46238	No
10	GOM_TRA_1PNPDE20110103_003344_000000453098_00103_46238_1184.N1	03-JAN-2011 00:33:44	Dark	45.000	71	Iot Car	2.2460	7700.0	90	46238	No

11	GOM_TRA_1PNPDE20110103_003538_000000453098_00103_46238_1185.N1	03-JAN-2011 00:35:38	Dark	45.000	46	Del Vel	1.9540	10600.	90	46238	No
12	GOM_TRA_1PNPDE20110103_003827_000000473098_00103_46238_1186.N1	03-JAN-2011 00:38:27	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	46238	No
13	GOM_TRA_1PNPDE20110103_004038_000000473098_00103_46238_1187.N1	03-JAN-2011 00:40:38	Dark	47.000	70	Zet Pup	2.2460	39000.	94	46238	No
14	GOM_TRA_1PNPDE20110103_004238_000000473098_00103_46238_1188.N1	03-JAN-2011 00:42:38	Dark	46.500	117	Pi Pup	2.7060	3800.0	93	46238	No
15	GOM_TRA_1PNPDE20110103_004523_000000483098_00103_46238_1189.N1	03-JAN-2011 00:45:23	Straylight	47.500	23	21Eps CMa	1.5020	26000.	95	46238	No
16	GOM_TRA_1PNPDE20110103_004654_000000383098_00103_46238_1190.N1	03-JAN-2011 00:46:54	Straylight	38.000	179	24Omi2CMa	3.0320	24000.	76	46238	No
17	GOM_TRA_1PNPDE20110103_004919_000000543098_00103_46238_1191.N1	03-JAN-2011 00:49:19	Straylight	54.000	1	9Alp CMa	-1.4400	11000.	108	46238	No
18	GOM_TRA_1PNPDE20110103_005643_000000503098_00103_46238_1192.N1	03-JAN-2011 00:56:43	Twi_and_stray	50.000	14	58Alp Ori	0.87000	3000.0	100	46238	No
19	GOM_TRA_1PNPDE20110103_005950_000000473098_00103_46238_1193.N1	03-JAN-2011 00:59:50	Bright	47.000	44	24Gam Gem	1.9280	11000.	94	46238	No
20	GOM_TRA_1PNPDE20110103_010129_000000513098_00103_46238_1194.N1	03-JAN-2011 01:01:29	Bright	50.500	151	13Mu Gem	2.8900	3000.0	101	46238	No
21	GOM_TRA_1PNPDE20110103_010530_000000373098_00103_46238_1195.N1	03-JAN-2011 01:05:30	Bright	37.000	107	37The Aur	2.6490	11000.	74	46238	No
22	GOM_TRA_1PNPDE20110103_010740_000000443098_00103_46238_1196.N1	03-JAN-2011 01:07:40	Bright	43.500	6	13Alp Aur	0.080000	3400.0	87	46238	No
23	GOM_TRA_1PNPDE20110103_012414_000000353098_00103_46238_1197.N1	03-JAN-2011 01:24:14	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	46238	No
24	GOM_TRA_1PNPDE20110103_012742_000000493098_00103_46238_1198.N1	03-JAN-2011 01:27:42	Bright	49.000	32	77Eps UMa	1.7630	11000.	98	46238	No
25	GOM_TRA_1PNPDE20110103_013105_000000453098_00103_46238_1199.N1	03-JAN-2011 01:31:05	Bright	44.500	39	85Eta UMa	1.8540	24000.	89	46238	No
26	GOM_TRA_1PNPDE20110103_013517_000000493098_00103_46238_1200.N1	03-JAN-2011 01:35:17	Bright	49.000	180	27Gam Boo	3.0400	8000.0	98	46238	No
27	GOM_TRA_1PNPDE20110103_013903_000000643098_00103_46238_1201.N1	03-JAN-2011 01:39:03	Bright	64.000	83		2.3780	11000.	128	46238	No
28	GOM_TRA_1PNPDE20110103_014225_000000573098_00103_46238_1202.N1	03-JAN-2011 01:42:25	Bright	56.500	3	16Alp Boo	-0.050000	4250.0	113	46238	No
29	GOM_TRA_1PNPDE20110103_014422_000000553098_00103_46238_1203.N1	03-JAN-2011 01:44:22	Bright	55.000	102	24Alp Ser	2.6000	4250.0	110	46238	No
30	GOM_TRA_1PNPDE20110103_014929_000000573098_00103_46238_1196.N1	03-JAN-2011 01:49:29	Bright	57.000	104	27Bet Lib	2.6140	13100.	114	46238	No
31	GOM_TRA_1PNPDE20110103_015212_000000483098_00103_46238_1197.N1	03-JAN-2011 01:52:12	Twi_and_stray	48.000	122	9Alp2Lib	2.7470	9700.0	96	46238	No
32	GOM_TRA_1PNPDE20110103_015908_000000493098_00103_46238_1198.N1	03-JAN-2011 01:59:08	Dark	48.500	54	5The Cen	2.0550	4500.0	97	46238	No
33	GOM_TRA_1PNPDE20110103_020150_000000413098_00103_46238_1199.N1	03-JAN-2011 02:01:50	Dark	41.000	95	Zet Cen	2.5450	26000.	82	46238	No
34	GOM_TRA_1PNPDE20110103_020333_000000413098_00104_46239_1200.N1	03-JAN-2011 02:03:33	Dark	41.000	77	Eps Cen	2.3030	28000.	82	46239	No
35	GOM_TRA_1PNPDE20110103_020525_000000463098_00104_46239_1201.N1	03-JAN-2011 02:05:25	Dark	45.500	64	Gam Cen	2.2000	10600.	91	46239	No
36	GOM_TRA_1PNPDE20110103_021135_000000483098_00104_46239_1202.N1	03-JAN-2011 02:11:35	Dark	47.500	113	Mu Vel	2.6920	5000.0	95	46239	No
37	GOM_TRA_1PNPDE20110103_021358_000000433098_00104_46239_1203.N1	03-JAN-2011 02:13:58	Dark	42.500	71	Iot Car	2.2460	7700.0	85	46239	No
38	GOM_TRA_1PNPDE20110103_021552_000000463098_00104_46239_1204.N1	03-JAN-2011 02:15:52	Dark	46.000	46	Del Vel	1.9540	10600.	92	46239	No
39	GOM_TRA_1PNPDE20110103_021842_000000453098_00104_46239_1205.N1	03-JAN-2011 02:18:42	Dark	45.000	34	Gam2Vel	1.7930	23000.	90	46239	No
40	GOM_TRA_1PNPDE20110103_022053_000000463098_00104_46239_1206.N1	03-JAN-2011 02:20:53	Dark	46.000	70	Zet Pup	2.2460	39000.	92	46239	No
41	GOM_TRA_1PNPDE20110103_022253_000000483098_00104_46239_1207.N1	03-JAN-2011 02:22:53	Dark	48.000	117	Pi Pup	2.7060	3800.0	96	46239	No
42	GOM_TRA_1PNPDE20110103_022538_000000463098_00104_46239_1208.N1	03-JAN-2011 02:25:38	Straylight	46.000	23	21Eps CMa	1.5020	26000.	92	46239	No
43	GOM_TRA_1PNPDE20110103_022708_000000443098_00104_46239_1209.N1	03-JAN-2011 02:27:08	Straylight	43.500	179	24Omi2CMa	3.0320	24000.	87	46239	No
44	GOM_TRA_1PNPDE20110103_022933_000000503098_00104_46239_1210.N1	03-JAN-2011 02:29:33	Straylight	49.500	1	9Alp CMa	-1.4400	11000.	99	46239	No
45	GOM_TRA_1PNPDE20110103_023657_000000503098_00104_46239_1211.N1	03-JAN-2011 02:36:57	Twi_and_stray	49.500	14	58Alp Ori	0.87000	3000.0	99	46239	No
46	GOM_TRA_1PNPDE20110103_024004_000000473098_00104_46239_1212.N1	03-JAN-2011 02:40:04	Bright	46.500	44	24Gam Gem	1.9280	11000.	93	46239	No
47	GOM_TRA_1PNPDE20110103_024143_000000473098_00104_46239_1213.N1	03-JAN-2011 02:41:43	Bright	46.500	151	13Mu Gem	2.8900	3000.0	93	46239	No
48	GOM_TRA_1PNPDE20110103_024544_000000393098_00104_46239_1214.N1	03-JAN-2011 02:45:44	Bright	38.500	107	37The Aur	2.6490	11000.	77	46239	No
49	GOM_TRA_1PNPDE20110103_024754_000000403098_00104_46239_1215.N1	03-JAN-2011 02:47:54	Bright	40.000	6	13Alp Aur	0.080000	3400.0	80	46239	No
50	GOM_TRA_1PNPDE20110103_030428_000000393098_00104_46239_1226.N1	03-JAN-2011 03:04:28	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	46239	No
51	GOM_TRA_1PNPDE20110103_030756_000000503098_00104_46239_1227.N1	03-JAN-2011 03:07:56	Bright	49.500	32	77Eps UMa	1.7630	11000.	99	46239	No
52	GOM_TRA_1PNPDE20110103_031119_000000613098_00104_46239_1228.N1	03-JAN-2011 03:11:19	Bright	61.000	39	85Eta UMa	1.8540	24000.	122	46239	No
53	GOM_TRA_1PNPDE20110103_031531_000000623098_00104_46239_1229.N1	03-JAN-2011 03:15:31	Bright	62.000	180	27Gam Boo	3.0400	8000.0	124	46239	No
54	GOM_TRA_1PNPDE20110103_031917_000000643098_00104_46239_1230.N1	03-JAN-2011 03:19:17	Bright	64.000	83		2.3780	11000.	128	46239	No
55	GOM_TRA_1PNPDE20110103_032240_000000573098_00104_46239_1231.N1	03-JAN-2011 03:22:40	Bright	56.500	3	16Alp Boo	-0.050000	4250.0	113	46239	No
56	GOM_TRA_1PNPDE20110103_032436_000000553098_00104_46239_1232.N1	03-JAN-2011 03:24:36	Bright	55.000	102	24Alp Ser	2.6000	4250.0	110	46239	No
57	GOM_TRA_1PNPDE20110103_032944_000000573098_00104_46239_1233.N1	03-JAN-2011 03:29:44	Bright	57.000	104	27Bet Lib	2.6140	13100.	114	46239	No
58	GOM_TRA_1PNPDE20110103_033227_000000453098_00104_46239_1234.N1	03-JAN-2011 03:32:27	Twi_and_stray	45.000	122	9Alp2Lib	2.7470	9700.0	90	46239	No
59	GOM_TRA_1PNPDE20110103_033923_000000513098_00104_46239_1235.N1	03-JAN-2011 03:39:23	Dark	50.500	54	5The Cen	2.0550	4500.0	101	46239	No
60	GOM_TRA_1PNPDE20110103_034205_000000403098_00104_46239_1236.N1	03-JAN-2011 03:42:05	Dark	40.000	95	Zet Cen	2.5450	26000.	80	46239	No
61	GOM_TRA_1PNPDE20110103_034348_000000403098_00105_46240_1237.N1	03-JAN-2011 03:43:48	Dark	40.000	77	Eps Cen	2.3030	28000.	80	46240	No
62	GOM_TRA_1PNPDE20110103_034540_000000453098_00105_46240_1238.N1	03-JAN-2011 03:45:40	Dark	44.500	64	Gam Cen	2.2000	10600.	89	46240	No
63	GOM_TRA_1PNPDE20110103_035150_000000483098_00105_46240_1239.N1	03-JAN-2011 03:51:50	Dark	48.000	113	Mu Vel	2.6920	5000.0	96	46240	No
64	GOM_TRA_1PNPDE20110103_035413_000000423098_00105_46240_1240.N1	03-JAN-2011 03:54:13	Dark	42.000	71	Iot Car	2.2460	7700.0	84	46240	No
65	GOM_TRA_1PNPDE20110103_035607_000000463098_00105_46240_1241.N1	03-JAN-2011 03:56:07	Dark	45.500	46	Del Vel	1.9540	10600.	91	46240	No
66	GOM_TRA_1PNPDE20110103_035857_000000443098_00105_46240_1242.N1	03-JAN-2011 03:58:57	Dark	43.500	34	Gam2Vel	1.7930	23000.	87	46240	No
67	GOM_TRA_1PNPDE20110103_040107_000000463098_00105_46240_1243.N1	03-JAN-2011 04:01:07	Dark	45.500	70	Zet Pup	2.2460	39000.	91	46240	No
68	GOM_TRA_1PNPDE20110103_040307_000000473098_00105_46240_1244.N1	03-JAN-2011 04:03:07	Dark	46.500	117	Pi Pup	2.7060	3800.0	93	46240	No
69	GOM_TRA_1PNPDE20110103_040552_000000463098_00105_46240_1245.N1	03-JAN-2011 04:05:52	Straylight	46.000	23	21Eps CMa	1.5020	26000.	92	46240	No

70	GOM_TRA_1PNPDE20110103_040723_000000443098_00105_46240_1246.N1	03-JAN-2011 04:07:23	Straylight	44.000	179	24Omi2CMa	3.0320	24000.	88	46240	No
71	GOM_TRA_1PNPDE20110103_040947_000000503098_00105_46240_1247.N1	03-JAN-2011 04:09:47	Straylight	49.500	1	9Alp CMa	-1.4400	11000.	99	46240	No
72	GOM_TRA_1PNPDE20110103_041712_000000553098_00105_46240_1248.N1	03-JAN-2011 04:17:12	Twi_and_stray	55.000	14	58Alp Ori	0.87000	3000.0	110	46240	No
73	GOM_TRA_1PNPDE20110103_042018_000000443098_00105_46240_1249.N1	03-JAN-2011 04:20:18	Twi_and_stray	44.000	44	24Gam Gem	1.9280	11000.	88	46240	No
74	GOM_TRA_1PNPDE20110103_042157_000000473098_00105_46240_1250.N1	03-JAN-2011 04:21:57	Bright	46.500	151	13Mu Gem	2.8900	3000.0	93	46240	No
75	GOM_TRA_1PNPDE20110103_042558_000000393098_00105_46240_1251.N1	03-JAN-2011 04:25:58	Bright	38.500	107	37The Aur	2.6490	11000.	77	46240	No
76	GOM_TRA_1PNPDE20110103_042808_000000413098_00105_46240_1252.N1	03-JAN-2011 04:28:08	Bright	40.500	6	13Alp Aur	0.080000	3400.0	81	46240	No
77	GOM_TRA_1PNPDE20110103_044442_000000383098_00105_46240_1244.N1	03-JAN-2011 04:44:42	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	46240	Yes
78	GOM_TRA_1PNPDE20110103_044810_000000513098_00105_46240_1245.N1	03-JAN-2011 04:48:10	Bright	50.500	32	77Eps UMa	1.7630	11000.	101	46240	No
79	GOM_TRA_1PNPDE20110103_045133_000000683098_00105_46240_1246.N1	03-JAN-2011 04:51:33	Bright	68.000	39	85Eta UMa	1.8540	24000.	136	46240	No
80	GOM_TRA_1PNPDE20110103_045545_000000643098_00105_46240_1247.N1	03-JAN-2011 04:55:45	Bright	64.000	180	27Gam Boo	3.0400	8000.0	128	46240	No
81	GOM_TRA_1PNPDE20110103_045931_000000443098_00105_46240_1248.N1	03-JAN-2011 04:59:31	Bright	44.000	83		2.3780	11000.	88	46240	No
82	GOM_TRA_1PNPDE20110103_050254_000000573098_00105_46240_1249.N1	03-JAN-2011 05:02:54	Bright	57.000	3	16Alp Boo	-0.050000	4250.0	114	46240	No
83	GOM_TRA_1PNPDE20110103_050451_000000553098_00105_46240_1250.N1	03-JAN-2011 05:04:51	Bright	55.000	102	24Alp Ser	2.6000	4250.0	110	46240	No
84	GOM_TRA_1PNPDE20110103_050958_000000473098_00105_46240_1251.N1	03-JAN-2011 05:09:58	Bright	46.500	104	27Bet Lib	2.6140	13100.	93	46240	No
85	GOM_TRA_1PNPDE20110103_051242_000000463098_00105_46240_1252.N1	03-JAN-2011 05:12:42	Twi_and_stray	46.000	122	9Alp2Lib	2.7470	9700.0	92	46240	No
86	GOM_TRA_1PNPDE20110103_051938_000000493098_00105_46240_1253.N1	03-JAN-2011 05:19:38	Dark	49.000	54	5The Cen	2.0550	4500.0	98	46240	No
87	GOM_TRA_1PNPDE20110103_052219_000000433098_00105_46240_1254.N1	03-JAN-2011 05:22:19	Dark	42.500	95	Zet Cen	2.5450	26000.	85	46240	No
88	GOM_TRA_1PNPDE20110103_052402_000000403098_00106_46241_1255.N1	03-JAN-2011 05:24:02	Dark	40.000	77	Eps Cen	2.3030	28000.	80	46241	No
89	GOM_TRA_1PNPDE20110103_052555_000000433098_00106_46241_1256.N1	03-JAN-2011 05:25:55	Dark	43.000	64	Gam Cen	2.2000	10600.	86	46241	No
90	GOM_TRA_1PNPDE20110103_053205_000000483098_00106_46241_1257.N1	03-JAN-2011 05:32:05	Dark	47.500	113	Mu Vel	2.6920	5000.0	95	46241	No
91	GOM_TRA_1PNPDE20110103_053428_000000413098_00106_46241_1258.N1	03-JAN-2011 05:34:28	Dark	41.000	71	Iot Car	2.2460	7700.0	82	46241	No
92	GOM_TRA_1PNPDE20110103_053622_000000443098_00106_46241_1259.N1	03-JAN-2011 05:36:22	Dark	43.500	46	Del Vel	1.9540	10600.	87	46241	No
93	GOM_TRA_1PNPDE20110103_053911_000000463098_00106_46241_1260.N1	03-JAN-2011 05:39:11	Dark	45.500	34	Gam2Vel	1.7930	23000.	91	46241	No
94	GOM_TRA_1PNPDE20110103_054122_000000463098_00106_46241_1261.N1	03-JAN-2011 05:41:22	Dark	46.000	70	Zet Pup	2.2460	39000.	92	46241	No
95	GOM_TRA_1PNPDE20110103_054322_000000503098_00106_46241_1262.N1	03-JAN-2011 05:43:22	Dark	50.000	117	Pi Pup	2.7060	3800.0	100	46241	No
96	GOM_TRA_1PNPDE20110103_054606_000000483098_00106_46241_1263.N1	03-JAN-2011 05:46:06	Straylight	47.500	23	21Eps CMa	1.5020	26000.	95	46241	No
97	GOM_TRA_1PNPDE20110103_054737_000000453098_00106_46241_1264.N1	03-JAN-2011 05:47:37	Straylight	45.000	179	24Omi2CMa	3.0320	24000.	90	46241	No
98	GOM_TRA_1PNPDE20110103_055001_000000563098_00106_46241_1265.N1	03-JAN-2011 05:50:01	Straylight	55.500	1	9Alp CMa	-1.4400	11000.	111	46241	No
99	GOM_TRA_1PNPDE20110103_055726_000000493098_00106_46241_1266.N1	03-JAN-2011 05:57:26	Twi_and_stray	49.000	14	58Alp Ori	0.87000	3000.0	98	46241	No
100	GOM_TRA_1PNPDE20110103_060032_000000513098_00106_46241_1267.N1	03-JAN-2011 06:00:32	Bright	51.000	44	24Gam Gem	1.9280	11000.	102	46241	No
101	GOM_TRA_1PNPDE20110103_060211_000000543098_00106_46241_1268.N1	03-JAN-2011 06:02:11	Bright	54.000	151	13Mu Gem	2.8900	3000.0	108	46241	No
102	GOM_TRA_1PNPDE20110103_060612_000000393098_00106_46241_1269.N1	03-JAN-2011 06:06:12	Bright	39.000	107	37The Aur	2.6490	11000.	78	46241	No
103	GOM_TRA_1PNPDE20110103_060824_000000403098_00106_46241_1270.N1	03-JAN-2011 06:08:24	Bright	39.500	6	13Alp Aur	0.080000	3400.0	79	46241	No
104	GOM_TRA_1PNPDE20110103_062456_000000393098_00106_46241_1271.N1	03-JAN-2011 06:24:56	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	46241	No
105	GOM_TRA_1PNPDE20110103_204122_000000423098_00115_46250_1358.N1	03-JAN-2011 20:41:22	Dark	42.000	34	Gam2Vel	1.7930	23000.	84	46250	Yes
106	GOM_TRA_1PNPDE20110103_204332_000000473098_00115_46250_1359.N1	03-JAN-2011 20:43:32	Dark	46.500	70	Zet Pup	2.2460	39000.	93	46250	No
107	GOM_TRA_1PNPDE20110103_204531_000000513098_00115_46250_1360.N1	03-JAN-2011 20:45:31	Dark	50.500	117	Pi Pup	2.7060	3800.0	101	46250	No
108	GOM_TRA_1PNPDE20110103_204815_000000473098_00115_46250_1361.N1	03-JAN-2011 20:48:15	Straylight	46.500	23	21Eps CMa	1.5020	26000.	93	46250	No
109	GOM_TRA_1PNPDE20110103_204945_000000443098_00115_46250_1362.N1	03-JAN-2011 20:49:45	Straylight	44.000	179	24Omi2CMa	3.0320	24000.	88	46250	No
110	GOM_TRA_1PNPDE20110103_205209_000000543098_00115_46250_1363.N1	03-JAN-2011 20:52:09	Straylight	53.500	1	9Alp CMa	-1.4400	11000.	107	46250	No
111	GOM_TRA_1PNPDE20110103_205932_000000493098_00115_46250_1364.N1	03-JAN-2011 20:59:32	Twi_and_stray	49.000	14	58Alp Ori	0.87000	3000.0	98	46250	No
112	GOM_TRA_1PNPDE20110103_210236_000000493098_00115_46250_1365.N1	03-JAN-2011 21:02:36	Twi_and_stray	49.000	44	24Gam Gem	1.9280	11000.	98	46250	No
113	GOM_TRA_1PNPDE20110103_210415_000000473098_00115_46250_1366.N1	03-JAN-2011 21:04:15	Bright	47.000	151	13Mu Gem	2.8900	3000.0	94	46250	No
114	GOM_TRA_1PNPDE20110103_210816_000000383098_00115_46250_1367.N1	03-JAN-2011 21:08:16	Bright	38.000	107	37The Aur	2.6490	11000.	76	46250	No
115	GOM_TRA_1PNPDE20110103_211029_000000403098_00115_46250_1368.N1	03-JAN-2011 21:10:29	Bright	39.500	42	34Bet Aur	1.9000	10200.	79	46250	No
116	GOM_TRA_1PNPDE20110103_212701_000000353098_00115_46250_1369.N1	03-JAN-2011 21:27:01	Bright	35.000	60	7Bet UMi	2.0810	3950.0	70	46250	No
117	GOM_TRA_1PNPDE20110103_213025_000000373098_00115_46250_1370.N1	03-JAN-2011 21:30:25	Bright	37.000	32	77Eps UMa	1.7630	11000.	74	46250	No
118	GOM_TRA_1PNPDE20110103_213129_000000443098_00115_46250_1371.N1	03-JAN-2011 21:31:29	Bright	43.500	55	79Zet UMa	2.0600	10200.	87	46250	No
119	GOM_TRA_1PNPDE20110103_213351_000000683098_00115_46250_1372.N1	03-JAN-2011 21:33:51	Bright	68.000	39	85Eta UMa	1.8540	24000.	136	46250	No
120	GOM_TRA_1PNPDE20110103_213805_000000433098_00115_46250_1373.N1	03-JAN-2011 21:38:05	Bright	42.500	180	27Gam Boo	3.0400	8000.0	85	46250	No
121	GOM_TRA_1PNPDE20110103_214154_000000473098_00115_46250_1374.N1	03-JAN-2011 21:41:54	Bright	47.000	83		2.3780	11000.	94	46250	No
122	GOM_TRA_1PNPDE20110103_214519_000000263098_00115_46250_1375.N1	03-JAN-2011 21:45:19	Twi_and_stray	26.000	3	16Alp Boo	-0.050000	4250.0	52	46250	No
123	GOM_TRA_1PNPDE20110103_214714_000000383098_00115_46250_1376.N1	03-JAN-2011 21:47:14	Bright	38.000	102	24Alp Ser	2.6000	4250.0	76	46250	No
124	GOM_TRA_1PNPDE20110103_215224_000000583098_00115_46250_1385.N1	03-JAN-2011 21:52:24	Bright	58.000	104	27Bet Lib	2.6140	13100.	116	46250	No
125	GOM_TRA_1PNPDE20110103_215508_000000463098_00115_46250_1386.N1	03-JAN-2011 21:55:08	Twi_and_stray	45.500	122	9Alp2Lib	2.7470	9700.0	91	46250	No
126	GOM_TRA_1PNPDE20110103_220206_000000533098_00115_46250_1387.N1	03-JAN-2011 22:02:06	Dark	52.500	54	5The Cen	2.0550	4500.0	105	46250	No
127	GOM_TRA_1PNPDE20110103_220446_000000433098_00115_46250_1388.N1	03-JAN-2011 22:04:46	Dark	42.500	95	Zet Cen	2.5450	26000.	85	46250	No
128	GOM_TRA_1PNPDE20110103_220628_000000403098_00116_46251_1389.N1	03-JAN-2011 22:06:28	Dark	40.000	77	Eps Cen	2.3030	28000.	80	46251	No

129	GOM_TRA_1PNPDE20110103_220823_000000453098_00116_46251_1390.N1	03-JAN-2011 22:08:23	Dark	44.500	64	Gam Cen	2.2000	10600.	89	46251	No
130	GOM_TRA_1PNPDE20110103_221434_000000493098_00116_46251_1391.N1	03-JAN-2011 22:14:34	Dark	48.500	113	Mu Vel	2.6920	5000.0	97	46251	No
131	GOM_TRA_1PNPDE20110103_221653_000000433098_00116_46251_1392.N1	03-JAN-2011 22:16:53	Dark	43.000	71	Iot Car	2.2460	7700.0	86	46251	No
132	GOM_TRA_1PNPDE20110103_221847_000000413098_00116_46251_1393.N1	03-JAN-2011 22:18:47	Dark	40.500	46	Del Vel	1.9540	10600.	81	46251	No
133	GOM_TRA_1PNPDE20110103_222136_000000473098_00116_46251_1394.N1	03-JAN-2011 22:21:36	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	46251	No
134	GOM_TRA_1PNPDE20110103_222347_000000483098_00116_46251_1395.N1	03-JAN-2011 22:23:47	Dark	47.500	70	Zet Pup	2.2460	39000.	95	46251	No
135	GOM_TRA_1PNPDE20110103_222545_000000513098_00116_46251_1396.N1	03-JAN-2011 22:25:45	Dark	51.000	117	Pi Pup	2.7060	3800.0	102	46251	No
136	GOM_TRA_1PNPDE20110103_222829_000000473098_00116_46251_1397.N1	03-JAN-2011 22:28:29	Straylight	46.500	23	21Eps CMa	1.5020	26000.	93	46251	No
137	GOM_TRA_1PNPDE20110103_222959_000000443098_00116_46251_1398.N1	03-JAN-2011 22:29:59	Straylight	43.500	179	24Omi2CMa	3.0320	24000.	87	46251	No
138	GOM_TRA_1PNPDE20110103_223223_000000463098_00116_46251_1399.N1	03-JAN-2011 22:32:23	Straylight	46.000	1	9Alp CMa	-1.4400	11000.	92	46251	No
139	GOM_TRA_1PNPDE20110103_223946_000000493098_00116_46251_1400.N1	03-JAN-2011 22:39:46	Twi_and_stray	49.000	14	58Alp Ori	0.87000	3000.0	98	46251	No
140	GOM_TRA_1PNPDE20110103_224249_000000493098_00116_46251_1401.N1	03-JAN-2011 22:42:49	Twi_and_stray	48.500	44	24Gam Gem	1.9280	11000.	97	46251	No
141	GOM_TRA_1PNPDE20110103_224428_000000483098_00116_46251_1402.N1	03-JAN-2011 22:44:28	Bright	48.000	151	13Mu Gem	2.8900	3000.0	96	46251	No
142	GOM_TRA_1PNPDE20110103_224830_000000393098_00116_46251_1403.N1	03-JAN-2011 22:48:30	Bright	38.500	107	37The Aur	2.6490	11000.	77	46251	No
143	GOM_TRA_1PNPDE20110103_225043_000000403098_00116_46251_1404.N1	03-JAN-2011 22:50:43	Bright	39.500	42	34Bet Aur	1.9000	10200.	79	46251	No
144	GOM_TRA_1PNPDE20110103_230715_000000363098_00116_46251_1405.N1	03-JAN-2011 23:07:15	Bright	35.500	60	7Bet UMi	2.0810	3950.0	71	46251	No
145	GOM_TRA_1PNPDE20110103_231039_000000373098_00116_46251_1406.N1	03-JAN-2011 23:10:39	Bright	37.000	32	77Eps UMa	1.7630	11000.	74	46251	No
146	GOM_TRA_1PNPDE20110103_231143_000000443098_00116_46251_1407.N1	03-JAN-2011 23:11:43	Bright	44.000	55	79Zet UMa	2.0600	10200.	88	46251	No
147	GOM_TRA_1PNPDE20110103_231405_000000573098_00116_46251_1408.N1	03-JAN-2011 23:14:05	Bright	57.000	39	85Eta UMa	1.8540	24000.	114	46251	No
148	GOM_TRA_1PNPDE20110103_231819_000000653098_00116_46251_1409.N1	03-JAN-2011 23:18:19	Bright	65.000	180	27Gam Boo	3.0400	8000.0	130	46251	No
149	GOM_TRA_1PNPDE20110103_232208_000000653098_00116_46251_1410.N1	03-JAN-2011 23:22:08	Bright	65.000	83		2.3780	11000.	130	46251	No
150	GOM_TRA_1PNPDE20110103_232533_000000263098_00116_46251_1411.N1	03-JAN-2011 23:25:33	Twi_and_stray	26.000	3	16Alp Boo	-0.050000	4250.0	52	46251	No
151	GOM_TRA_1PNPDE20110103_232728_000000373098_00116_46251_1412.N1	03-JAN-2011 23:27:28	Bright	37.000	102	24Alp Ser	2.6000	4250.0	74	46251	No
152	GOM_TRA_1PNPDE20110103_233238_000000583098_00116_46251_1413.N1	03-JAN-2011 23:32:38	Bright	58.000	104	27Bet Lib	2.6140	13100.	116	46251	No
153	GOM_TRA_1PNPDE20110103_233523_000000453098_00116_46251_1407.N1	03-JAN-2011 23:35:23	Twi_and_stray	44.500	122	9Alp2Lib	2.7470	9700.0	89	46251	No
154	GOM_TRA_1PNPDE20110103_234220_000000473098_00116_46251_1408.N1	03-JAN-2011 23:42:20	Dark	47.000	54	5The Cen	2.0550	4500.0	94	46251	No
155	GOM_TRA_1PNPDE20110103_234643_000000413098_00117_46252_1409.N1	03-JAN-2011 23:46:43	Dark	41.000	77	Eps Cen	2.3030	28000.	82	46252	No
156	GOM_TRA_1PNPDE20110103_234838_000000453098_00117_46252_1410.N1	03-JAN-2011 23:48:38	Dark	45.000	64	Gam Cen	2.2000	10600.	90	46252	No
157	GOM_TRA_1PNPDE20110103_235449_000000473098_00117_46252_1411.N1	03-JAN-2011 23:54:49	Dark	47.000	113	Mu Vel	2.6920	5000.0	94	46252	No
158	GOM_TRA_1PNPDE20110103_235707_000000413098_00117_46252_1412.N1	03-JAN-2011 23:57:07	Dark	41.000	71	Iot Car	2.2460	7700.0	82	46252	No
159	GOM_TRA_1PNPDE20110103_235901_000000443098_00117_46252_1413.N1	03-JAN-2011 23:59:01	Dark	44.000	46	Del Vel	1.9540	10600.	88	46252	No

3. Plot of GOMOS spectrometers and photometers temperatures from level 1b data



4. Overview of dark signal processing per product

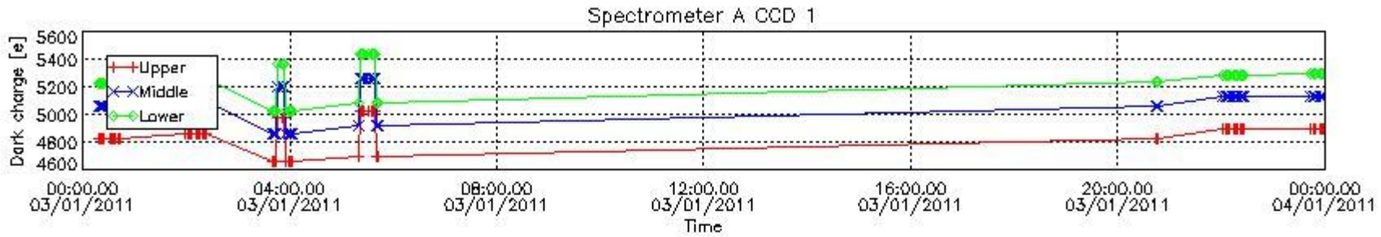
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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.

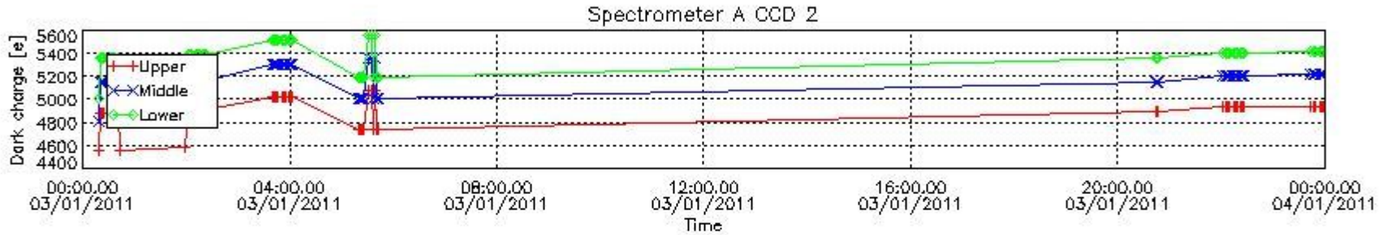
4.1 These products did not use the DSA observation for DC computation:

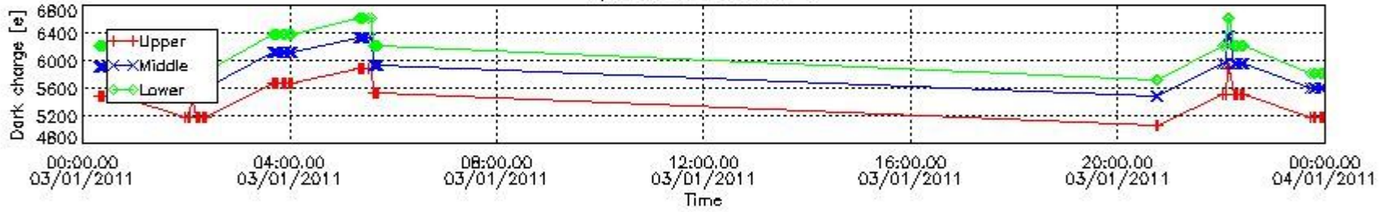
Product name	DC information
GOM_TRA_1PNPDE20110103_204122_000000423098_00115_46250_1358.N1	DC map with no T dep.
GOM_TRA_1PNPDE20110103_204332_000000473098_00115_46250_1359.N1	DC map used
GOM_TRA_1PNPDE20110103_204531_000000513098_00115_46250_1360.N1	DC map used
GOM_TRA_1PNPDE20110103_204815_000000473098_00115_46250_1361.N1	DC map used
GOM_TRA_1PNPDE20110103_204945_000000443098_00115_46250_1362.N1	DC map used
GOM_TRA_1PNPDE20110103_205209_000000543098_00115_46250_1363.N1	DC map used
GOM_TRA_1PNPDE20110103_205932_000000493098_00115_46250_1364.N1	DC map used
GOM_TRA_1PNPDE20110103_210236_000000493098_00115_46250_1365.N1	DC map used
GOM_TRA_1PNPDE20110103_210415_000000473098_00115_46250_1366.N1	DC map used
GOM_TRA_1PNPDE20110103_210816_000000383098_00115_46250_1367.N1	DC map used
GOM_TRA_1PNPDE20110103_211029_000000403098_00115_46250_1368.N1	DC map used
GOM_TRA_1PNPDE20110103_212701_000000353098_00115_46250_1369.N1	DC map used
GOM_TRA_1PNPDE20110103_213025_000000373098_00115_46250_1370.N1	DC map used
GOM_TRA_1PNPDE20110103_213129_000000443098_00115_46250_1371.N1	DC map used

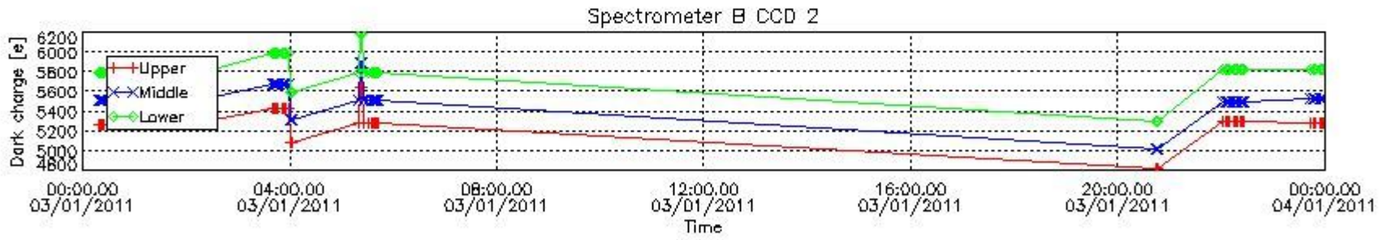
GOM_TRA_1PNPDE20110103_213351_000000683098_00115_46250_1372.N1	DC map used
GOM_TRA_1PNPDE20110103_213805_000000433098_00115_46250_1373.N1	DC map used
GOM_TRA_1PNPDE20110103_214154_000000473098_00115_46250_1374.N1	DC map used
GOM_TRA_1PNPDE20110103_214519_000000263098_00115_46250_1375.N1	DC map used
GOM_TRA_1PNPDE20110103_214714_000000383098_00115_46250_1376.N1	DC map used

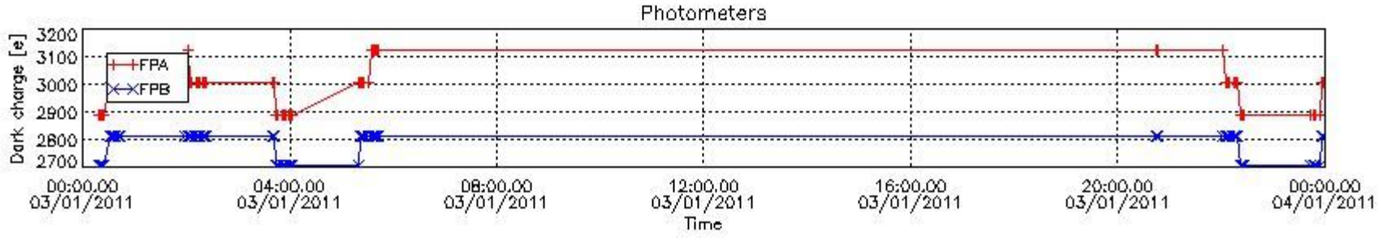
4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used











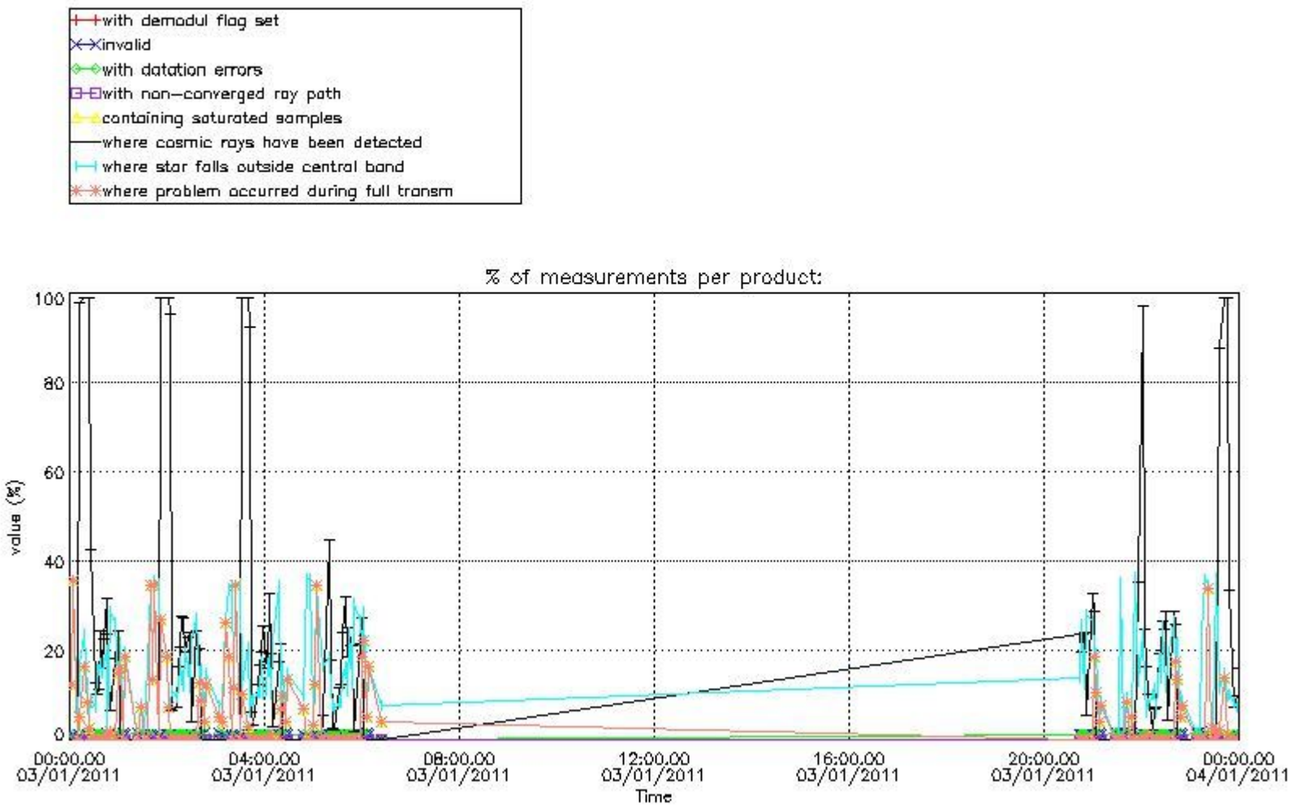
5. Demodulation flag and quality information monitoring

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:

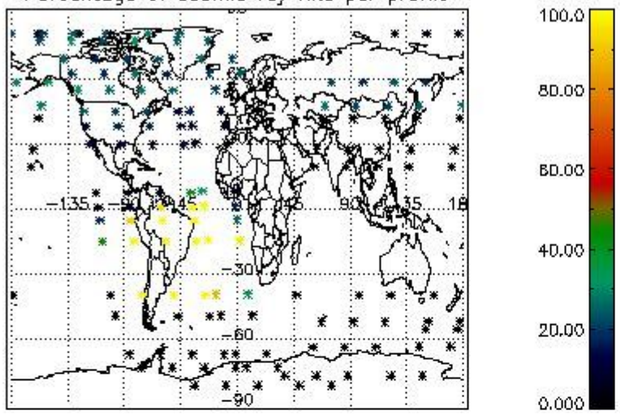
At least one measurement with demodulation flag set:	52.8662 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)

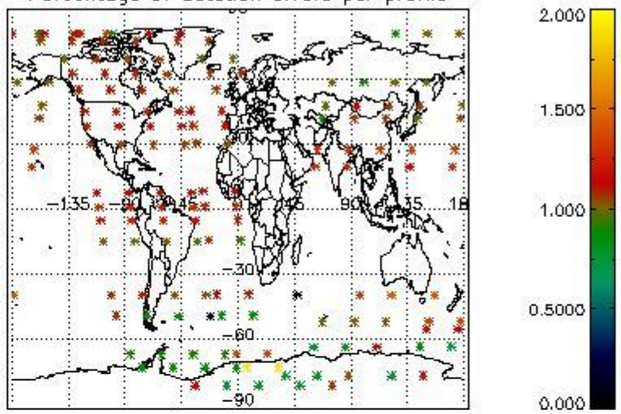


5.3 Plot quality information per product (world map)

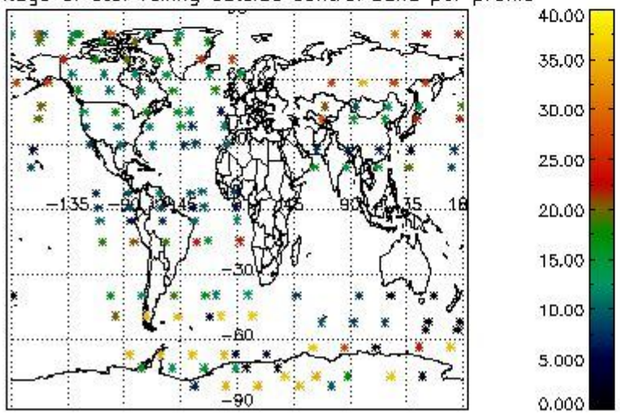
Percentage of cosmic ray hits per profile



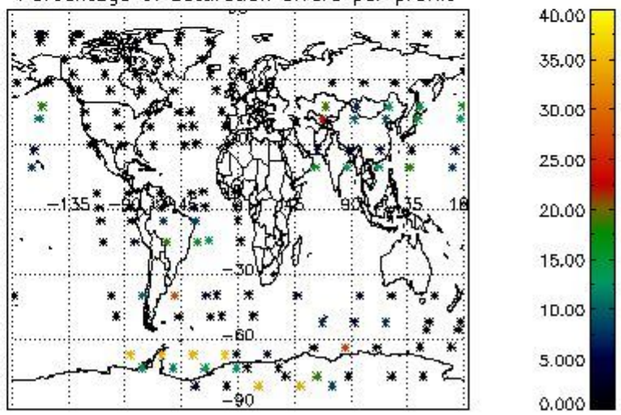
Percentage of datation errors per profile



Percentage of star falling outside central band per profile



Percentage of saturation errors per profile



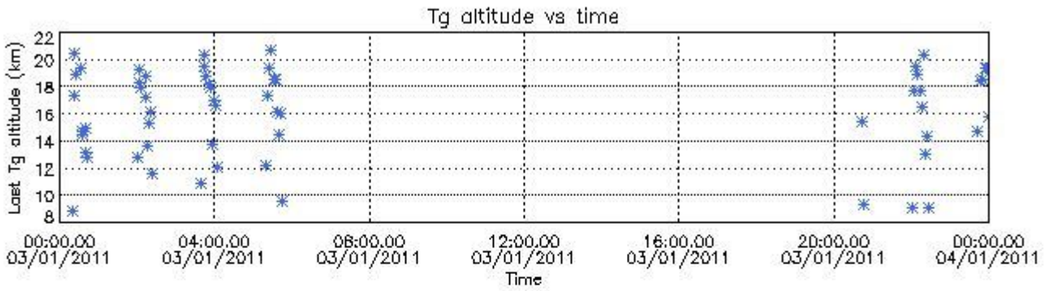
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

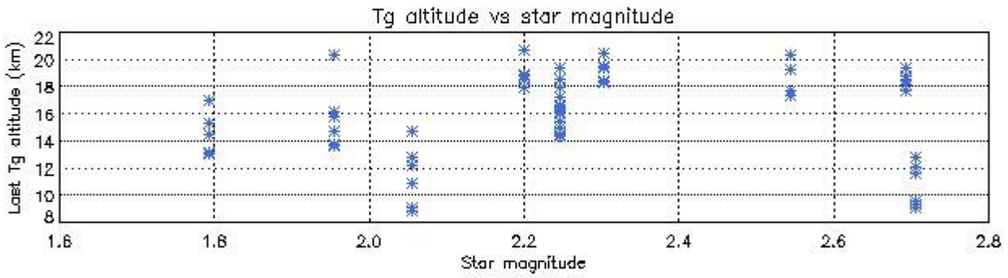
6.1 Statistics on tangent altitude lost:

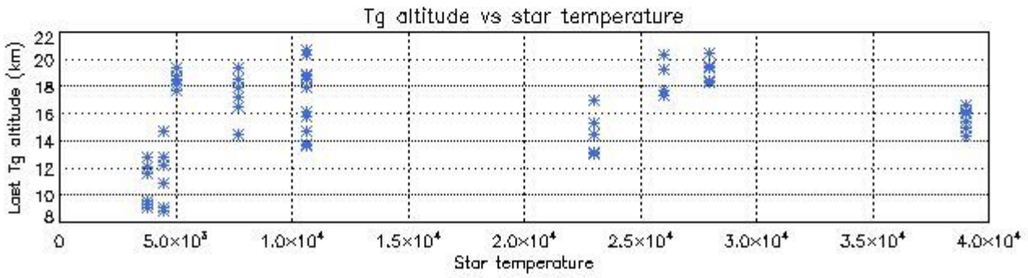
Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.043	15.110	NaN
St. deviation:	3.2897	9.1624	NaN
Maximum:	20.652	44.861	NaN
Minimum:	8.7891	3.6650	NaN
Number of data:	58.000	64.000	NaN

6.2 Plot for DARK limb products

Tangent altitude at which the star is lost

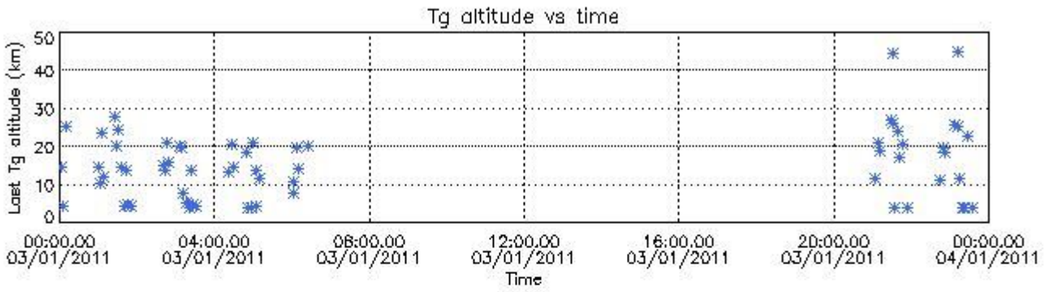


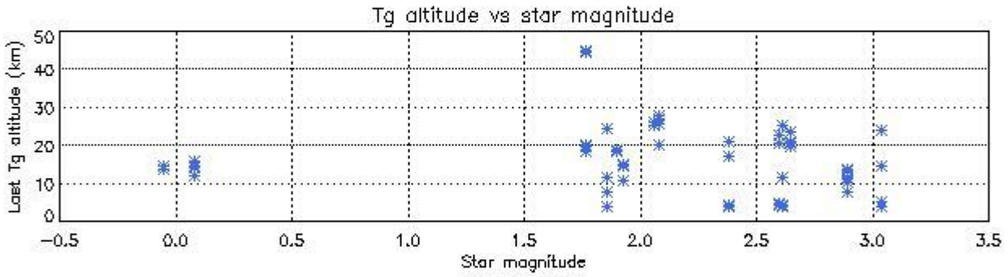


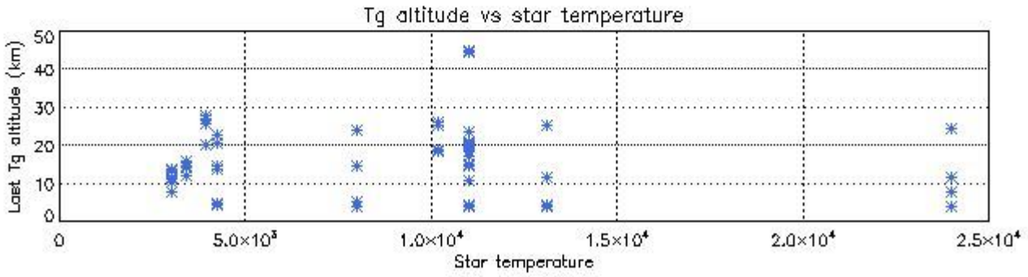


6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost





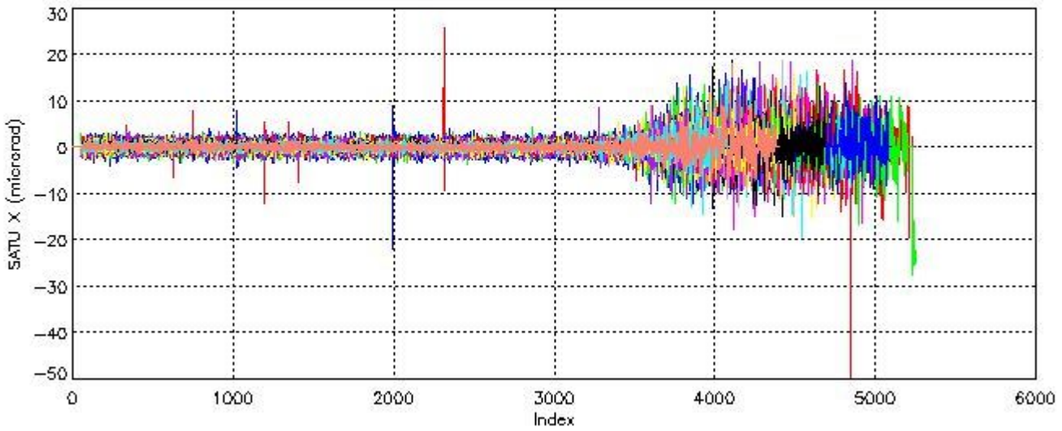


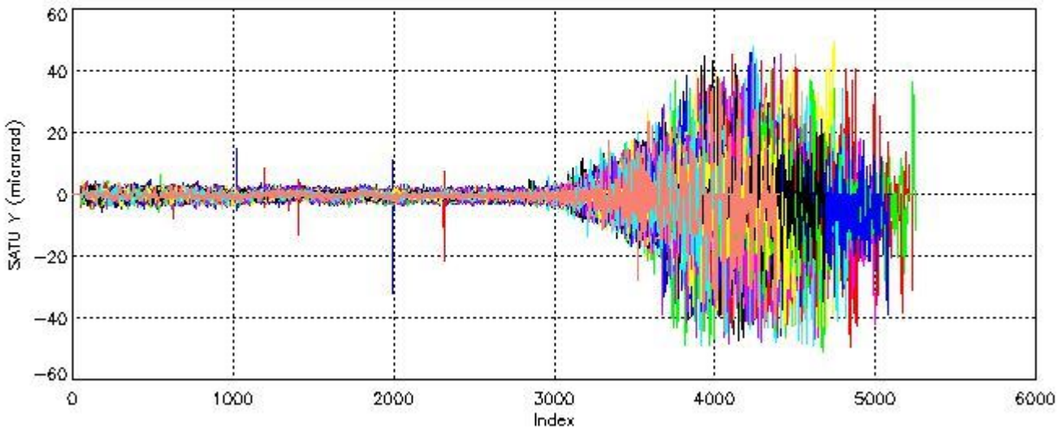
7. Star Acquisition and Tracking Unit (SATU)

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 functin 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 frecuency 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:	0.19493	-0.37676	0.19041	-0.32455
St. deviation:	0.62069	1.0253	0.69628	0.98257
Maximum:	7.8000	6.4000	5.5000	6.3000
Minimum:	-6.5000	-7.7000	-5.3000	-6.4000

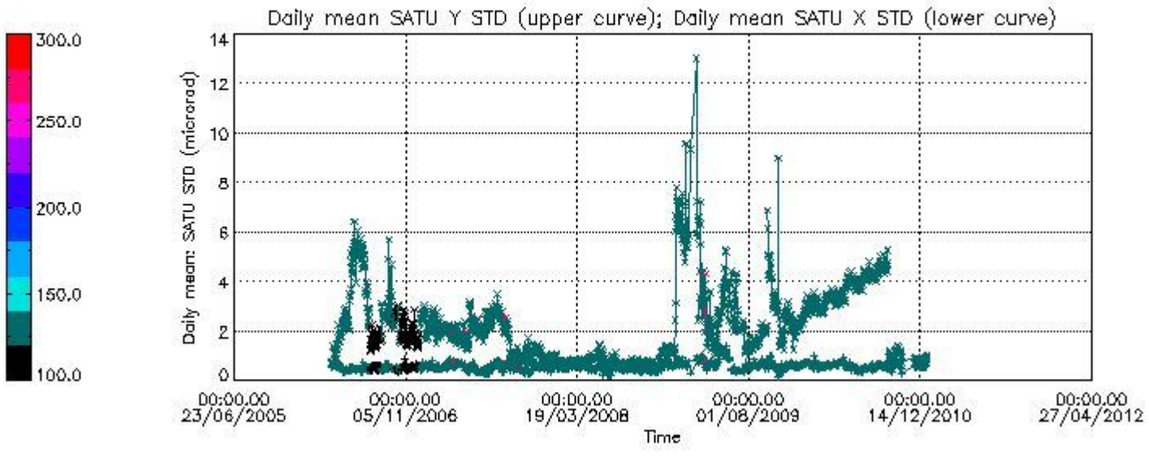
Number of data:	59600.	59600.	63250.	63250.

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.

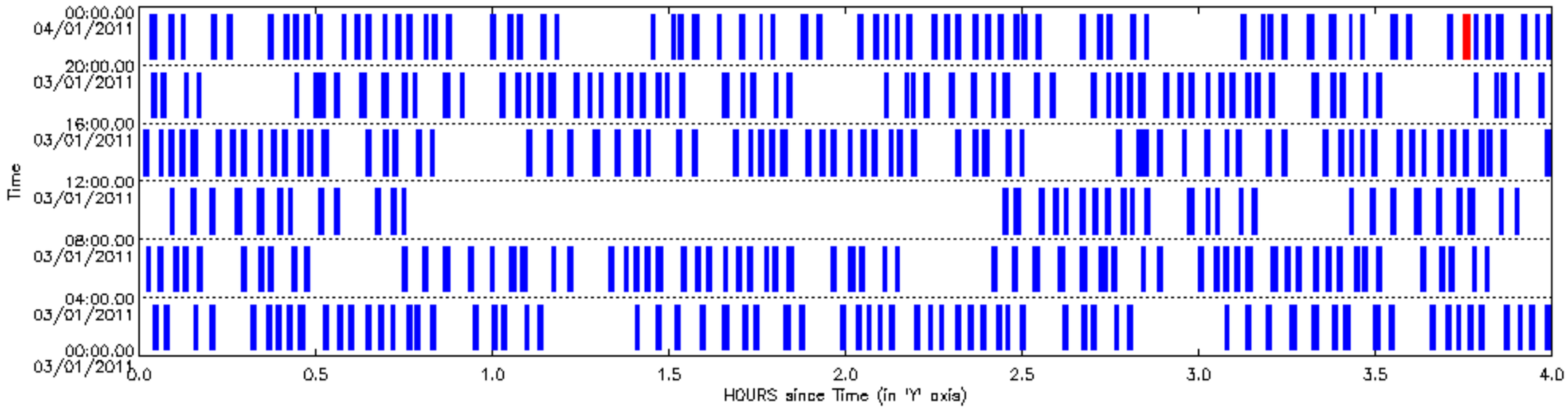
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

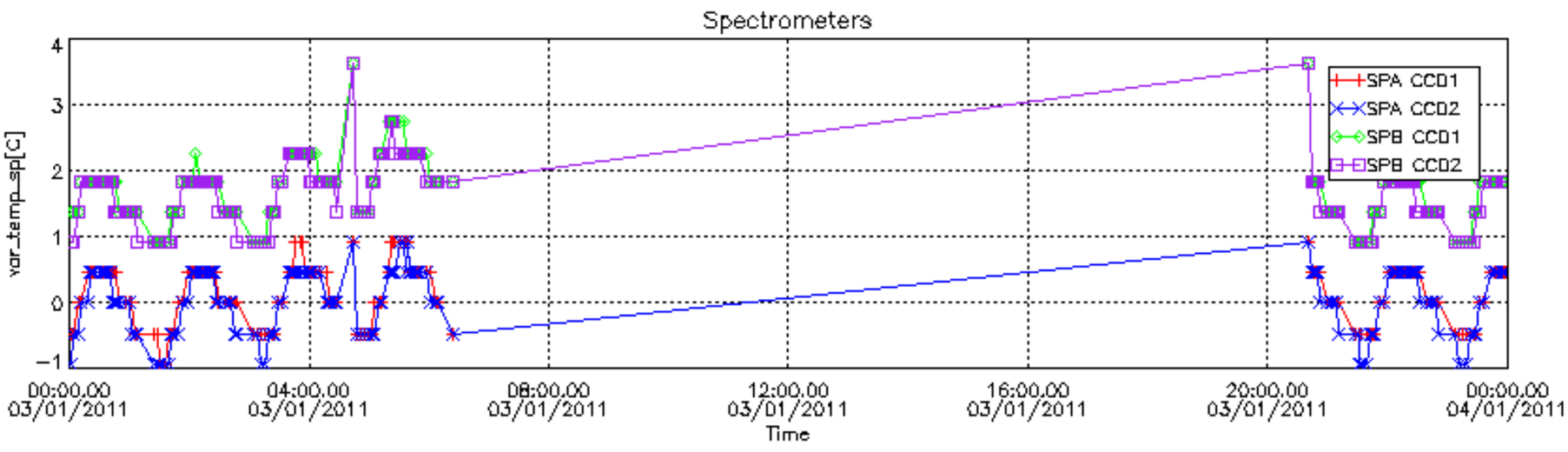


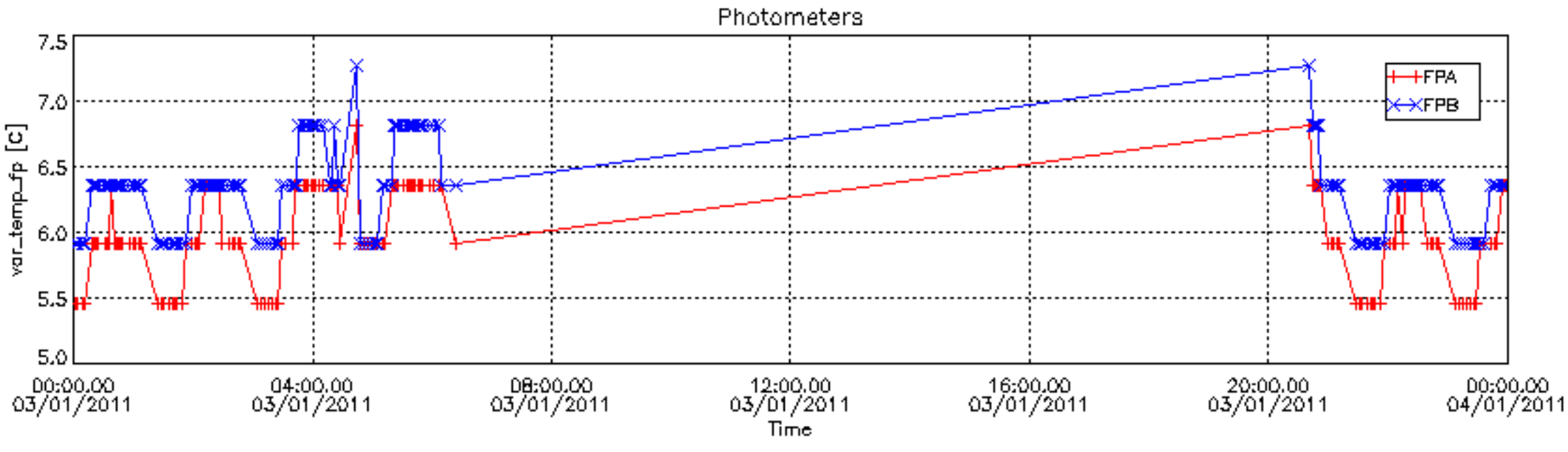
8. Auxiliary Data Files used for the production reported in section 2.4

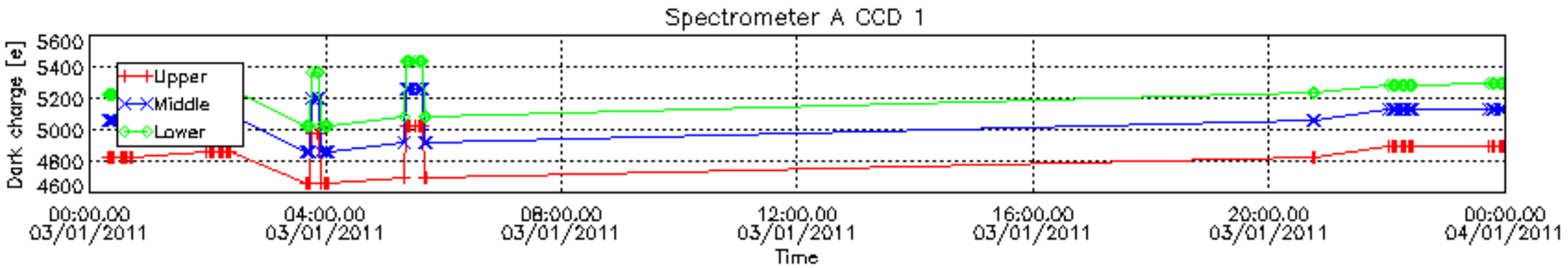
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

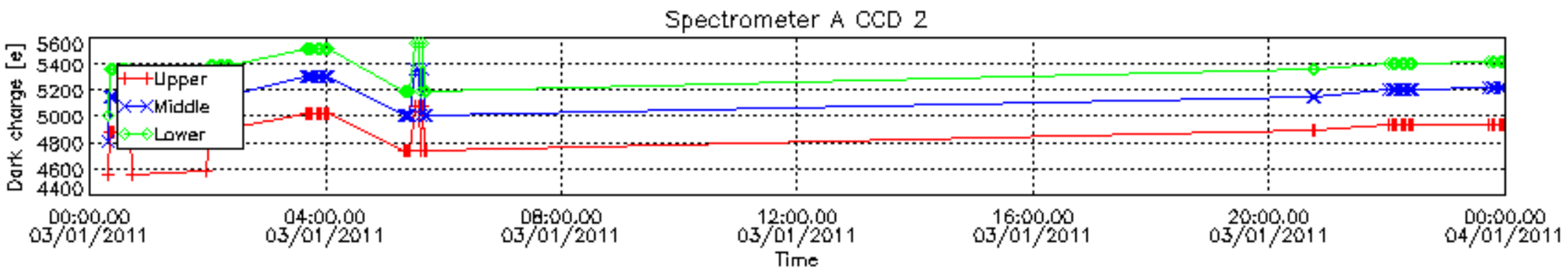
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	03-JAN-2011 00:02:11
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20101227_083101_20101226_000000_20500101_000000	1	03-JAN-2011 00:02:11
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	03-JAN-2011 00:02:11
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	03-JAN-2011 00:02:11
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	03-JAN-2011 00:02:11
ECMWF_FILE	AUX_ECF_AXNECM20110102_054115_20110102_210000_20110103_090000	1	03-JAN-2011 00:02:11
ECMWF_FILE	AUX_ECF_AXNECM20110102_172116_20110103_030000_20110103_150000	50	03-JAN-2011 03:04:28
ECMWF_FILE	AUX_ECF_AXNECM20110103_054114_20110103_150000_20110104_030000	105	03-JAN-2011 20:41:22
ECMWF_FILE	AUX_ECF_AXNECM20110103_054114_20110103_210000_20110104_090000	124	03-JAN-2011 21:52:24
OPTIONAL_ECMWF_FILE	MISSING	1	03-JAN-2011 00:02:11
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20101230_222113_20101230_193220_20110109_200559	1	03-JAN-2011 00:02:11
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20110103_000536_000057383098_00102_46237_2254.N1	4	03-JAN-2011 00:11:58
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20110103_014633_000041443098_00103_46238_2255.N1	30	03-JAN-2011 01:49:29
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20110103_030056_000057383098_00104_46239_2256.N1	50	03-JAN-2011 03:04:28
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20110103_044153_000057383098_00105_46240_2257.N1	77	03-JAN-2011 04:44:42
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20110103_203815_000038253098_00115_46250_2258.N1	105	03-JAN-2011 20:41:22
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20110103_214720_000060573098_00115_46250_2259.N1	124	03-JAN-2011 21:52:24
ORBIT_DATA_FILE	DOR_NAV_0PNPDE20110103_233335_000057383098_00116_46251_2260.N1	153	03-JAN-2011 23:35:23

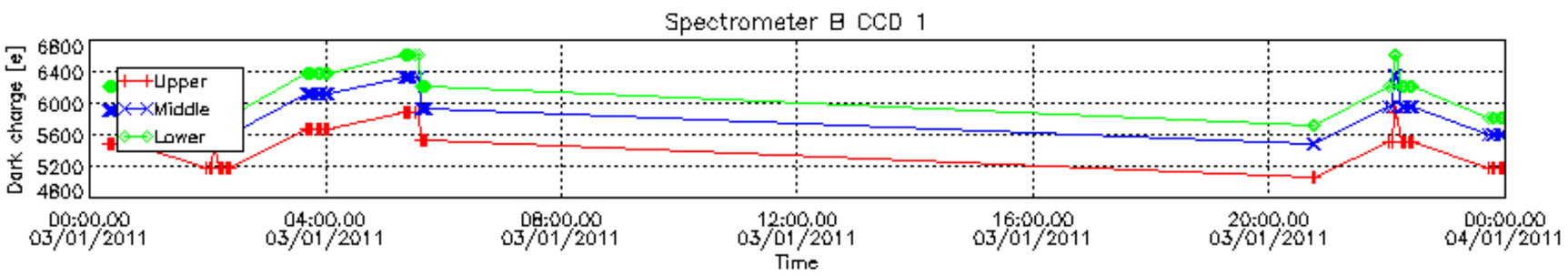

00:00.00
04/01/2011
20:00.00
03/01/2011
16:00.00
03/01/2011
12:00.00
03/01/2011
08:00.00
03/01/2011
04:00.00
03/01/2011
00:00.00
03/01/2011
Time
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
HOURS since Time (in 'Y' axis)

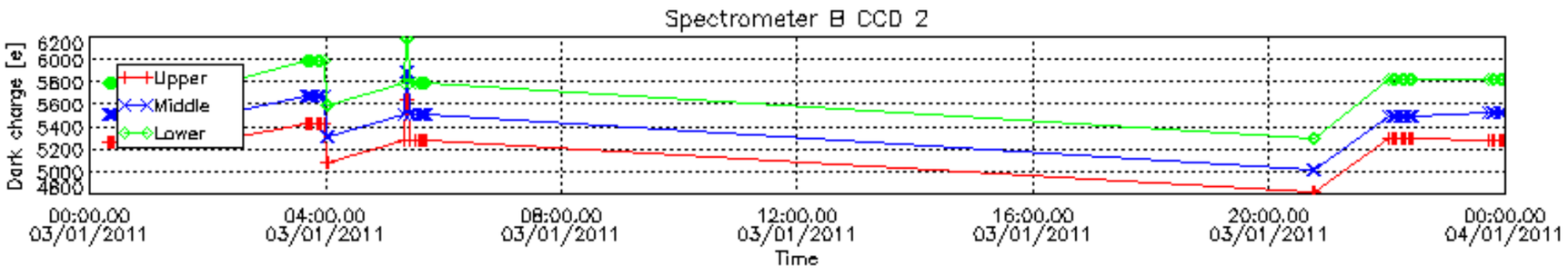

Spectrometers
var_temp_sp[C]
4
3
2
1
0
−1
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
03/01/2011
04:00.00
03/01/2011
08:00.00
03/01/2011
12:00.00
03/01/2011
16:00.00
03/01/2011
20:00.00
03/01/2011
00:00.00
04/01/2011
Time

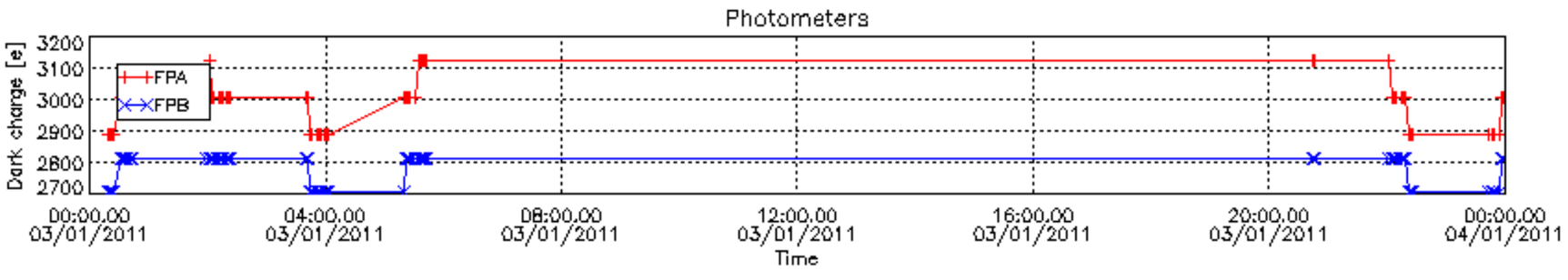

Photometers
var_temp_fp [C]
7.5
7.0
6.5
6.0
5.5
5.0
FPA
FPB
00:00.00
03/01/2011
04:00.00
03/01/2011
08:00.00
03/01/2011
12:00.00
03/01/2011
16:00.00
03/01/2011
20:00.00
03/01/2011
00:00.00
04/01/2011
Time

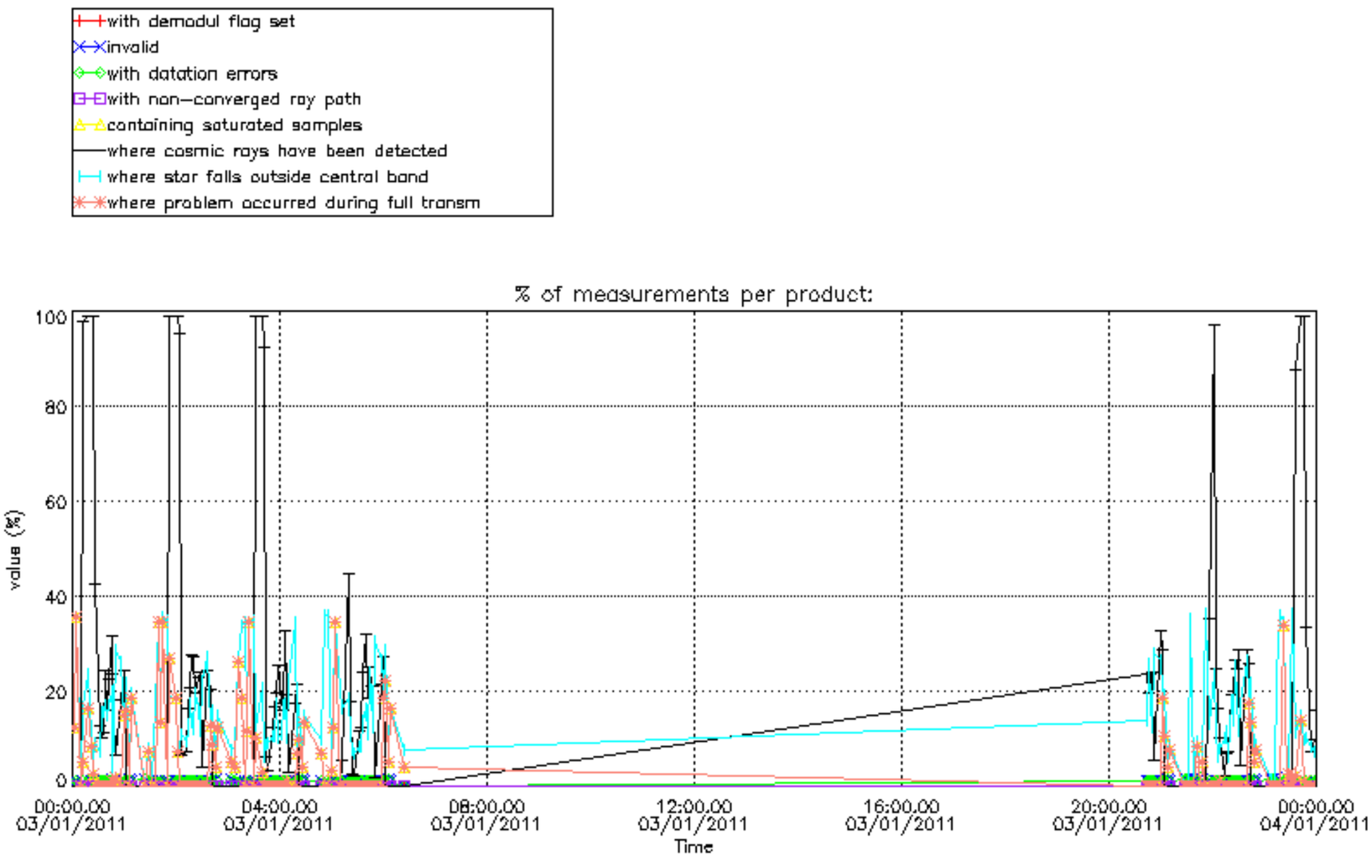

Spectrometer A CCD 1
Dark charge [e]
5600
5400
5200
5000
4800
4600
Upper
Middle
Lower
00:00.00 03/01/2011
04:00.00 03/01/2011
08:00.00 03/01/2011
12:00.00 03/01/2011
16:00.00 03/01/2011
20:00.00 03/01/2011
00:00.00 04/01/2011
Time

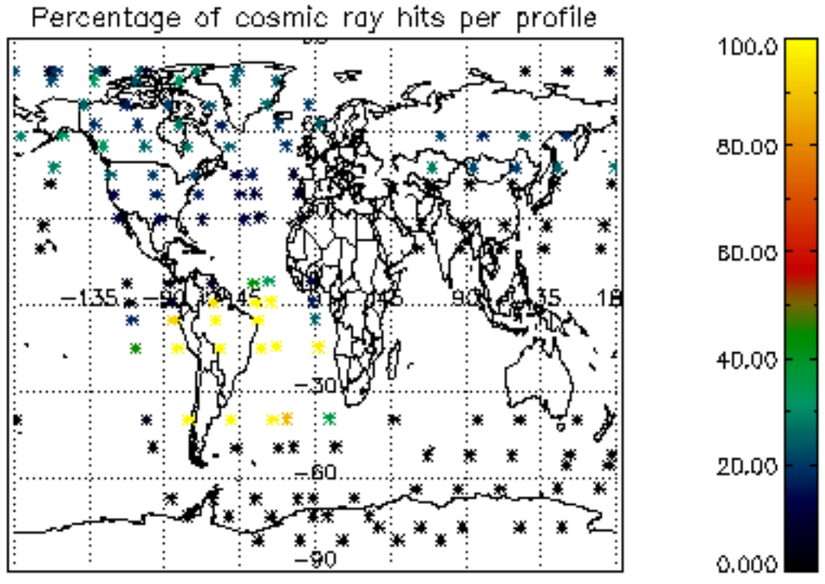

Spectrometer A CCD 2
Dark charge [e]
5600
5400
5200
5000
4800
4600
4400
Upper
Middle
Lower
00:00.00 03/01/2011
04:00.00 03/01/2011
08:00.00 03/01/2011
12:00.00 03/01/2011
16:00.00 03/01/2011
20:00.00 03/01/2011
00:00.00 04/01/2011
Time

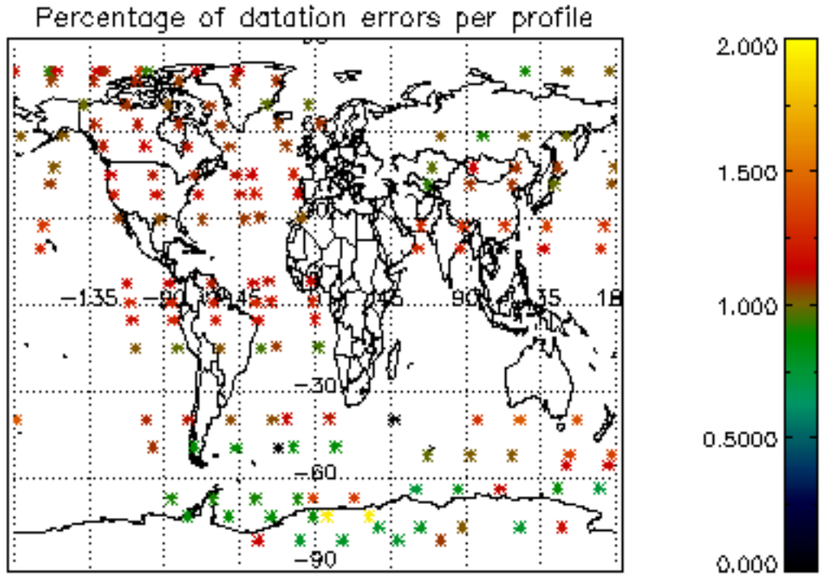

Spectrometer B CCD 1
Dark charge [e]
6800
6400
6000
5600
5200
4800
Upper
Middle
Lower
00:00.00 03/01/2011
04:00.00 03/01/2011
08:00.00 03/01/2011
12:00.00 03/01/2011
16:00.00 03/01/2011
20:00.00 03/01/2011
00:00.00 04/01/2011
Time

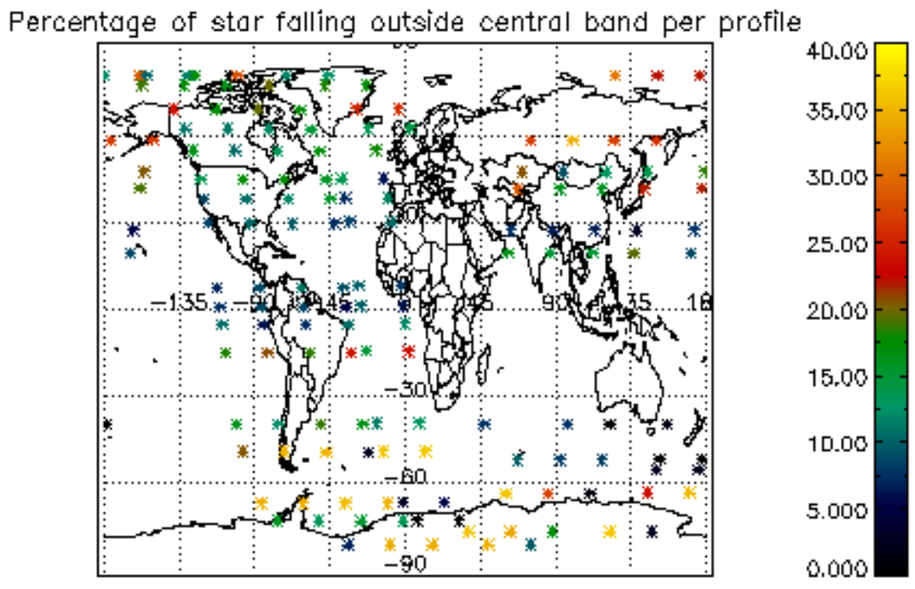

Spectrometer B CCD 2
Dark charge [e]
6200
6000
5800
5600
5400
5200
5000
4800
Upper
Middle
Lower
00:00.00 03/01/2011
04:00.00 03/01/2011
08:00.00 03/01/2011
12:00.00 03/01/2011
16:00.00 03/01/2011
20:00.00 03/01/2011
00:00.00 04/01/2011
Time

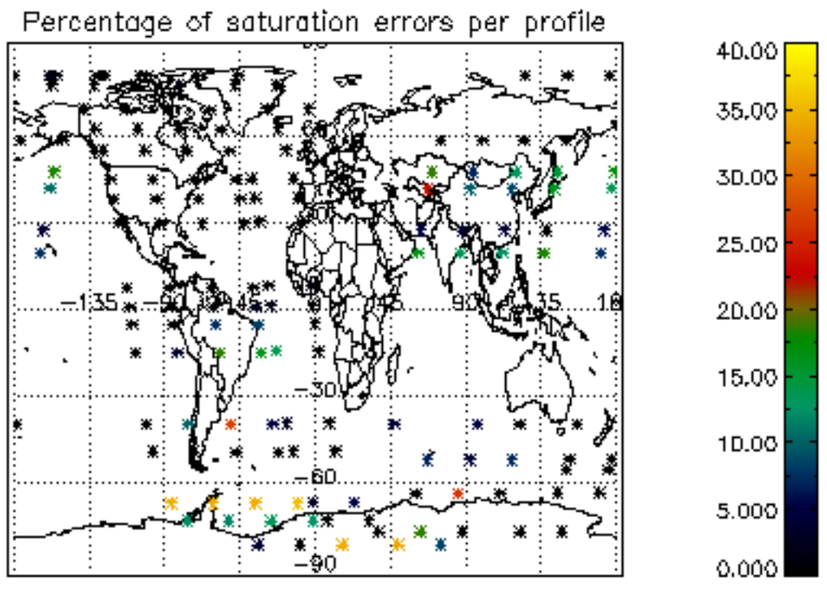

Photometers
Dark charge [e]
3200
3100
3000
2900
2800
2700
FPA
FPB
00:00.00 03/01/2011
04:00.00 03/01/2011
08:00.00 03/01/2011
12:00.00 03/01/2011
16:00.00 03/01/2011
20:00.00 03/01/2011
00:00.00 04/01/2011
Time


with demodul flag set
invalid
with datation errors
with non-converged ray path
containing saturated samples
where cosmic rays have been detected
where star falls outside central band
where problem occurred during full transm
% of measurements per product:
value (%)
100
80
60
40
20
0
00:00.00 03/01/2011
04:00.00 03/01/2011
08:00.00 03/01/2011
12:00.00 03/01/2011
16:00.00 03/01/2011
20:00.00 03/01/2011
00:00.00 04/01/2011
Time

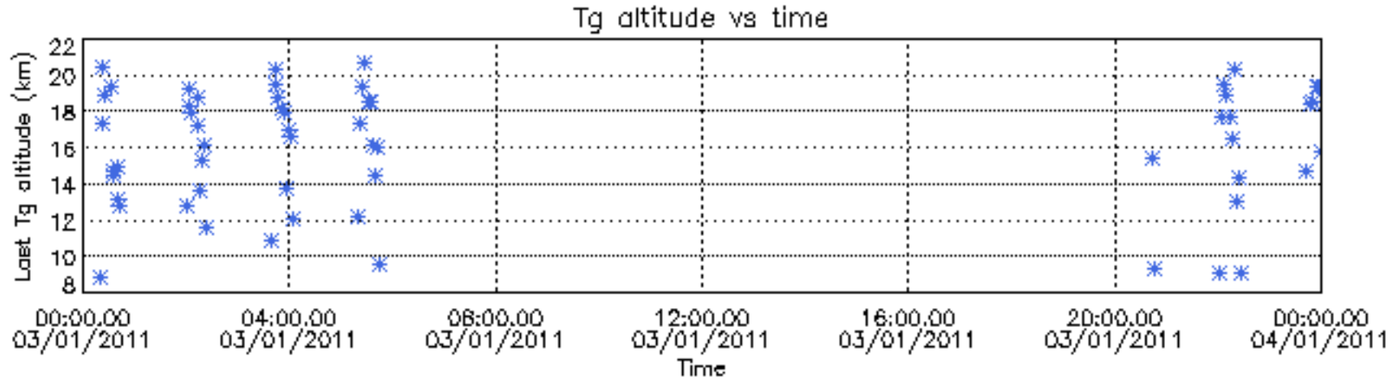

Percentage of cosmic ray hits per profile
100.0
80.00
60.00
40.00
20.00
0.000
−135
−90
−45
0
45
90
135
180
−30
−60
−90

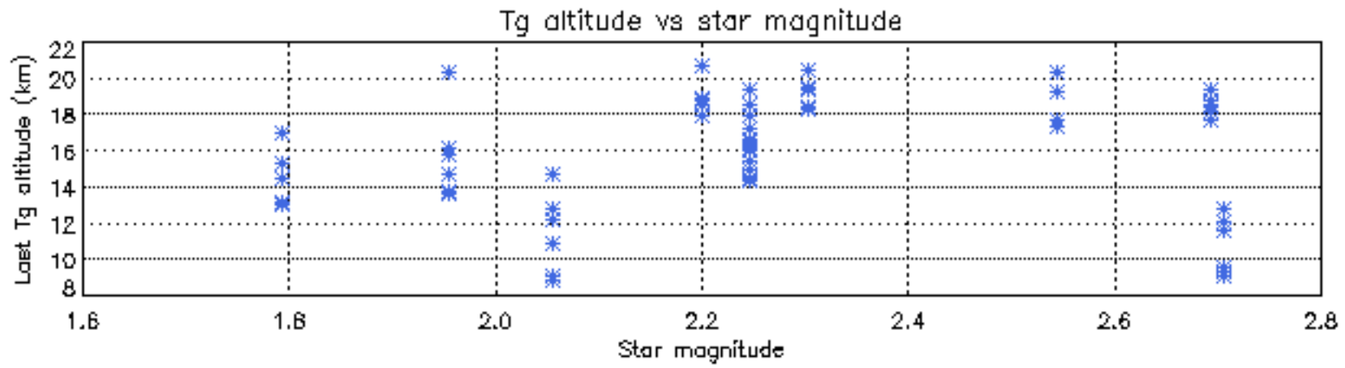

Percentage of datation errors per profile
2.000
1.500
1.000
0.5000
0.000
−135
−90
−45
0
45
90
135
180
−30
−60
−90

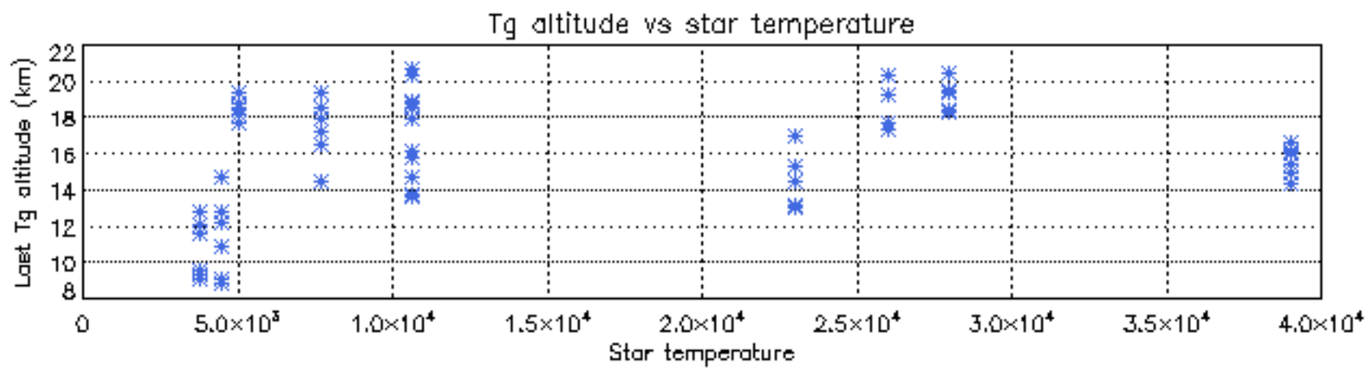

Percentage of star falling outside central band per profile
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−45
0
45
90
135
180
−30
−60
−90


Percentage of saturation errors per profile
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−45
0
45
90
135
180
−30
−60
−90

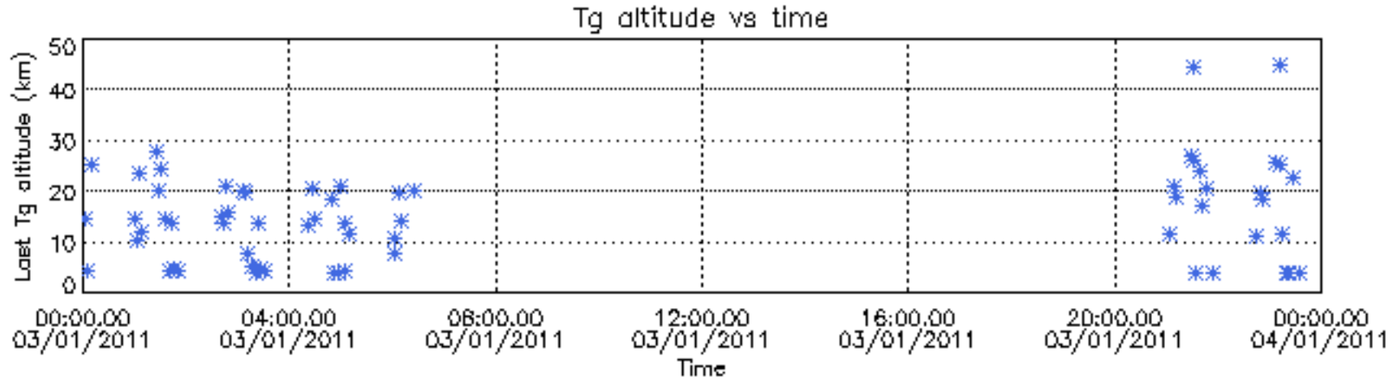
Tangent altitude at which the star is lost

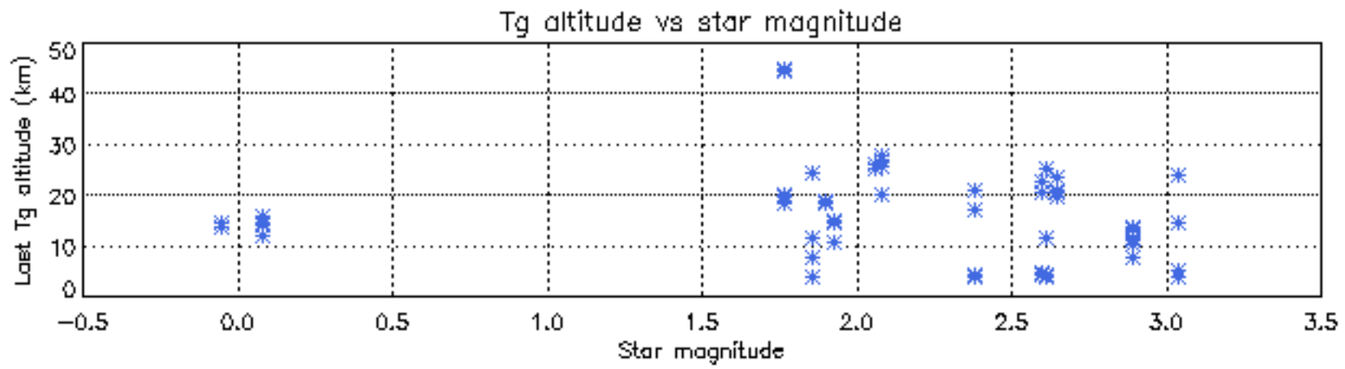


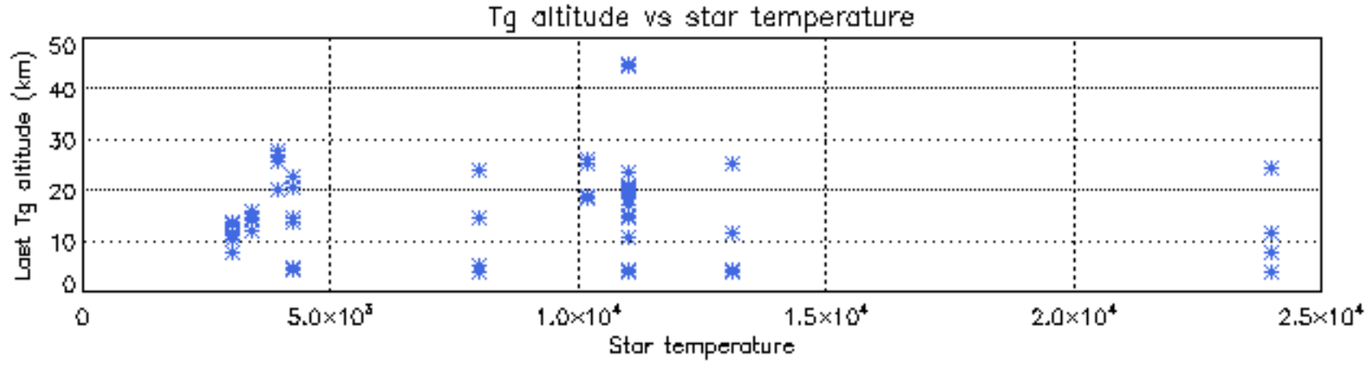


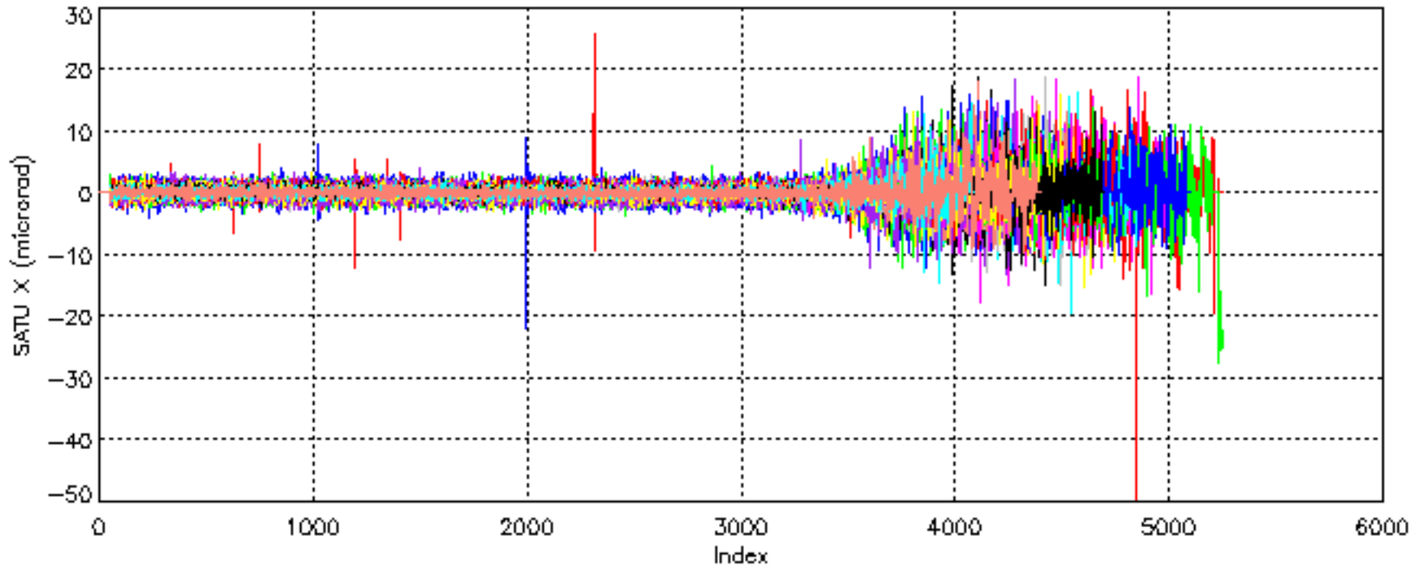


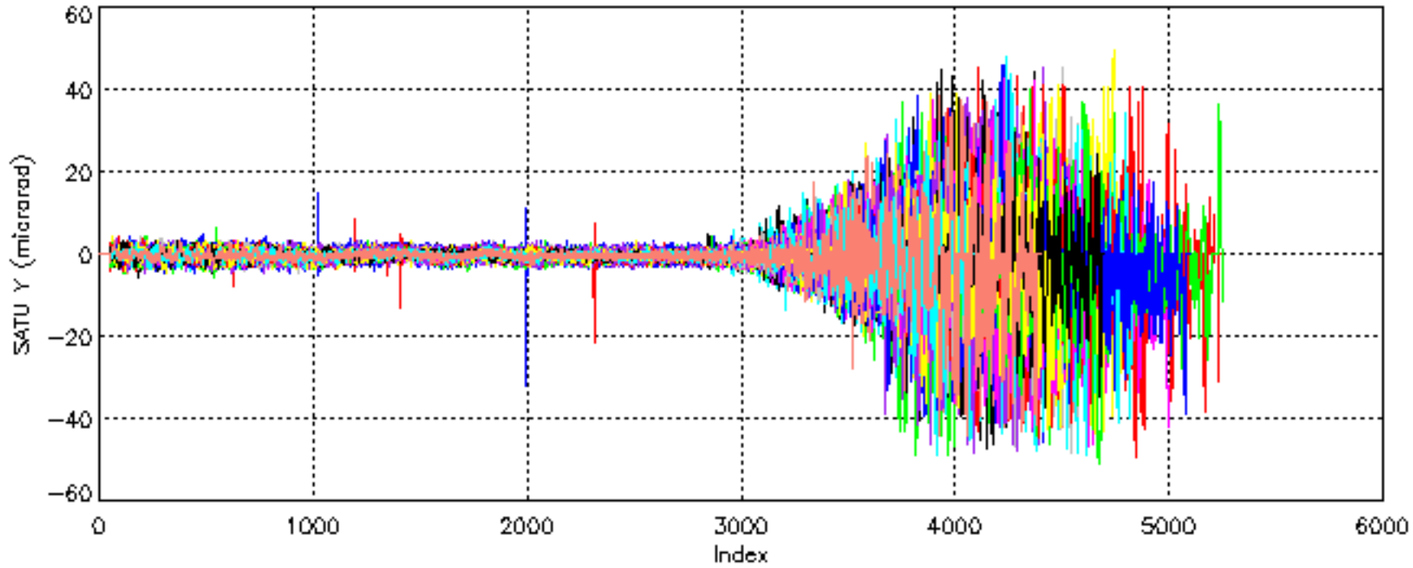
Tangent altitude at which the star is lost

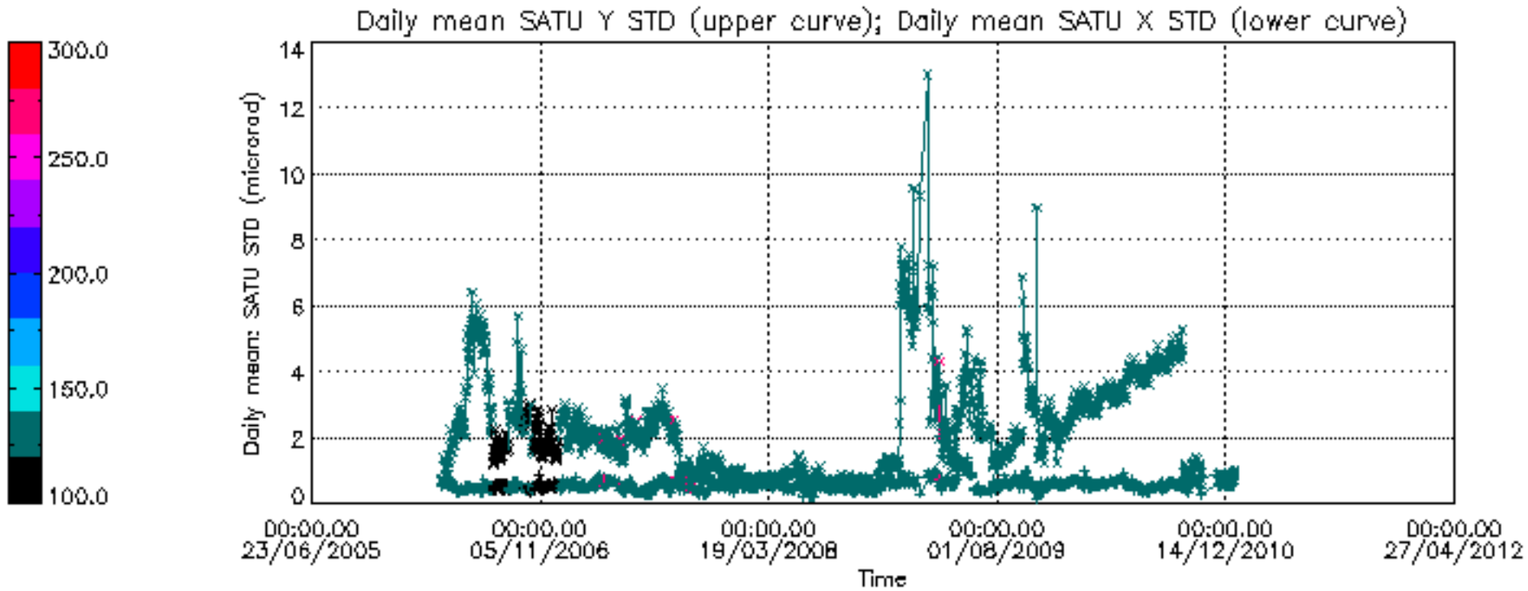







SATU X (microrad)
30
20
10
0
−10
−20
−30
−40
−50
0
1000
2000
3000
4000
5000
6000
Index


60
40
20
0
−20
−40
−60
S4TU Y (microrad)
0
1000
2000
3000
4000
5000
6000
Index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  25; 4083.9; 02-JAN-2011 00:27:39; Bright;  46.5;   39; 85Eta UMa  ; 1.85; 24000;occ;  93;   0;46223
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   3; 1869.8; 01-JAN-2011 12:09:06; Dark  ;  44.5;   30; 46Eps Ori  ; 1.69; 30000;occ;  89;   0;46216
   4; 2019.6; 01-JAN-2011 12:11:36; Dark  ;  48.5;   14; 58Alp Ori  ; 0.87;  3000;occ;  97;   0;46216
   5; 2212.5; 01-JAN-2011 12:14:49; Dark  ;  48.5;   44; 24Gam Gem  ; 1.93; 11000;occ;  97;   0;46216
   6; 2310.6; 01-JAN-2011 12:16:27; Bright;  47.0;  151; 13Mu  Gem  ; 2.89;  3000;occ;  94;   0;46216
   7; 2550.4; 01-JAN-2011 12:20:27; Bright;  39.0;  107; 37The Aur  ; 2.65; 11000;occ;  78;   0;46216
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  12; 4331.1; 01-JAN-2011 12:50:08; Bright;  42.0;  180; 27Gam Boo  ; 3.04;  8000;occ;  84;   0;46216
  13; 4553.5; 01-JAN-2011 12:53:50; Bright;  44.0;   83;            ; 2.38; 11000;occ;  88;   0;46216
  14; 4750.4; 01-JAN-2011 12:57:07; Bright;  54.0;    3; 16Alp Boo  ;-0.05;  4250;occ; 108;   0;46216
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  21; 6122.0; 01-JAN-2011 13:19:58; Dark  ;  44.0;   64;   Gam Cen  ; 2.20; 10600;occ;  88;   0;46217
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  23; 6490.9; 01-JAN-2011 13:26:07; Dark  ;  48.0;  113;   Mu  Vel  ; 2.69;  5000;occ;  96;   0;46217
  24; 6641.8; 01-JAN-2011 13:28:38; Dark  ;  42.0;   71;   Iot Car  ; 2.25;  7700;occ;  84;   0;46217
  25; 6755.9; 01-JAN-2011 13:30:32; Dark  ;  42.5;   46;   Del Vel  ; 1.95; 10600;occ;  85;   0;46217
  26; 6926.1; 01-JAN-2011 13:33:23; Dark  ;  41.0;   34;   Gam2Vel  ; 1.79; 23000;occ;  82;   0;46217
  27; 7057.1; 01-JAN-2011 13:35:34; Dark  ;  45.5;   70;   Zet Pup  ; 2.25; 39000;occ;  91;   0;46217
  28; 7180.2; 01-JAN-2011 13:37:37; Dark  ;  45.5;  117;   Pi  Pup  ; 2.71;  3800;occ;  91;   0;46217
  29; 7346.9; 01-JAN-2011 13:40:23; Dark  ;  44.0;   23; 21Eps CMa  ; 1.50; 26000;occ;  88;   0;46217
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   2; 1571.4; 01-JAN-2011 13:44:22; Dark  ;  58.0;    1;  9Alp CMa  ;-1.44; 11000;occ; 116;   0;46217
   3; 1720.4; 01-JAN-2011 13:46:51; Dark  ;  43.5;   56; 53Kap Ori  ; 2.07; 30000;occ;  87;   0;46217
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   5; 2019.5; 01-JAN-2011 13:51:50; Dark  ;  49.0;   14; 58Alp Ori  ; 0.87;  3000;occ;  98;   0;46217
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   9; 2676.8; 01-JAN-2011 14:02:47; Bright;  42.0;    6; 13Alp Aur  ; 0.08;  3400;occ;  84;   0;46217
  10; 3671.3; 01-JAN-2011 14:19:22; Bright;  39.0;   60;  7Bet UMi  ; 2.08;  3950;occ;  78;   0;46217
  11; 3886.8; 01-JAN-2011 14:22:57; Bright;  49.5;   32; 77Eps UMa  ; 1.76; 11000;occ;  99;   0;46217
  12; 4085.1; 01-JAN-2011 14:26:16; Bright;  66.5;   39; 85Eta UMa  ; 1.85; 24000;occ; 133;   0;46217
  13; 4331.4; 01-JAN-2011 14:30:22; Bright;  43.5;  180; 27Gam Boo  ; 3.04;  8000;occ;  87;   0;46217
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  22; 6122.6; 01-JAN-2011 15:00:13; Dark  ;  45.0;   64;   Gam Cen  ; 2.20; 10600;occ;  90;   0;46218
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   3; 1571.3; 01-JAN-2011 15:24:36; Dark  ;  55.0;    1;  9Alp CMa  ;-1.44; 11000;occ; 110;   0;46218
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   8; 2310.1; 01-JAN-2011 15:36:55; Bright;  48.0;  151; 13Mu  Gem  ; 2.89;  3000;occ;  96;   0;46218
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  11; 3671.1; 01-JAN-2011 15:59:36; Bright;  35.5;   60;  7Bet UMi  ; 2.08;  3950;occ;  71;   0;46218
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   4; 1333.8; 01-JAN-2011 18:41:07; Dark ; 46.5;   23; 21Eps CMa ; 1.50; 26000;occ; 93;   0;46220
   5; 1425.3; 01-JAN-2011 18:42:38; Dark ; 45.0; 179; 24Omi2CMa ; 3.03; 24000;occ; 90;   0;46220
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  22; 1429.9; 03-JAN-2011 05:47:37; Dark  ;  45.0;  179; 24Omi2CMa  ; 3.03; 24000;occ;  90;   0;46241
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  24; 2018.7; 03-JAN-2011 05:57:26; Dark  ;  49.0;   14; 58Alp Ori  ; 0.87;  3000;occ;  98;   0;46241
  25; 2204.9; 03-JAN-2011 06:00:32; Dark  ;  51.0;   44; 24Gam Gem  ; 1.93; 11000;occ; 102;   0;46241
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  27; 2544.6; 03-JAN-2011 06:06:12; Bright;  39.0;  107; 37The Aur  ; 2.65; 11000;occ;  78;   0;46241
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  12; 3667.6; 03-JAN-2011 21:27:01; Bright;  35.0;   60;  7Bet UMi  ; 2.08;  3950;occ;  70;   0;46250
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   8;  506.6; 03-JAN-2011 22:14:34; Dark  ;  48.5;  113;   Mu  Vel  ; 2.69;  5000;occ;  97;   0;46251
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   7;  557.2; 08-JAN-2011 00:49:11; Dark  ;  53.5;  113;   Mu  Vel  ; 2.69;  5000;occ; 107;   0;46310
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   9;  676.0; 08-JAN-2011 02:31:24; Dark  ;  40.0;   71;   Iot Car  ; 2.25;  7700;occ;  80;   0;46311
  10;  789.5; 08-JAN-2011 02:33:18; Dark  ;  41.5;   46;   Del Vel  ; 1.95; 10600;occ;  83;   0;46311
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  21; 1444.9; 08-JAN-2011 04:24:27; Dark  ;  43.5;  179; 24Omi2CMa  ; 3.03; 24000;occ;  87;   0;46312
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   5; 3880.0; 30-JAN-2011 08:19:19; Bright;  58.0;  119; 14Eta Dra  ; 2.73;  4700;occ; 116;   0;46630
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  18; 6120.4; 31-JAN-2011 16:41:06; Dark  ;  59.5;    0;            ; 0.00;     0;occ; 119;   0;46650
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   4; 2379.8; 31-JAN-2011 17:18:59; Bright;  40.5;   17; 78Bet Gem  ; 1.16;  4500;occ;  81;   0;46650
   5; 3267.6; 31-JAN-2011 17:33:47; Bright;  47.0;   36; 50Alp UMa  ; 1.80;  6300;occ;  94;   0;46650
   6; 3594.7; 31-JAN-2011 17:39:14; Bright;  40.5;   60;  7Bet UMi  ; 2.08;  3950;occ;  81;   0;46650
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