

GOMOS Daily Report 03-OCT-2010

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](#)

[5. Demodulation correction and quality product information monitoring](#)

[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](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

[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](#)

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	06OCT2010 04:45:14
Data source version	GOMOS/5.01
Start time of products	03OCT2010 00:08:47
Stop time of products	03OCT2010 23:55:04
Store outputs in DB	Yes
Nb of level 1b prods	83
Nb of prods with errors	0

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

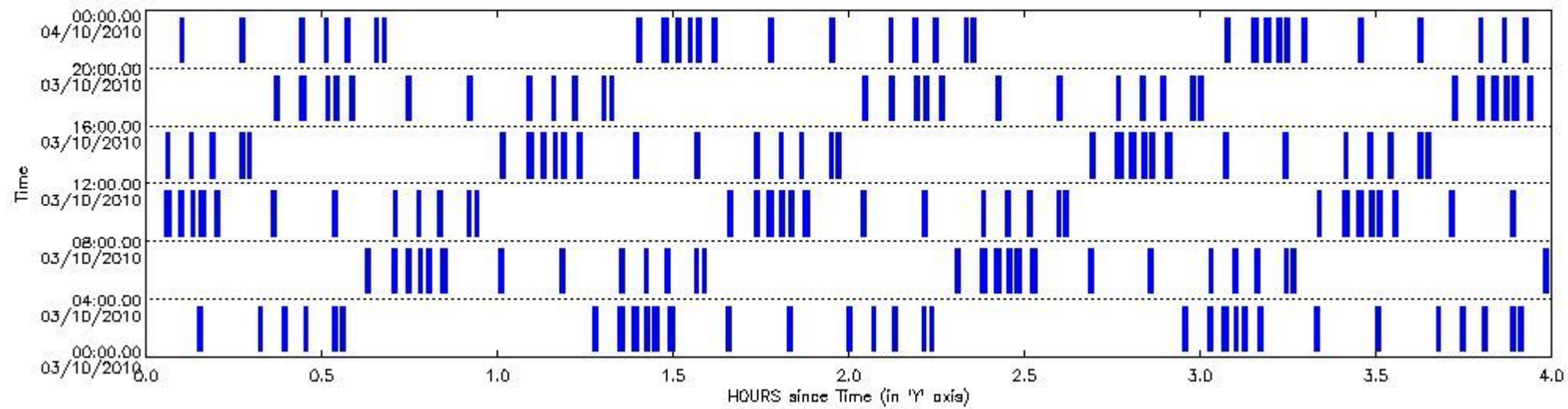
2.1 Level 0 products arrived in PCF (see template [here](#))

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.

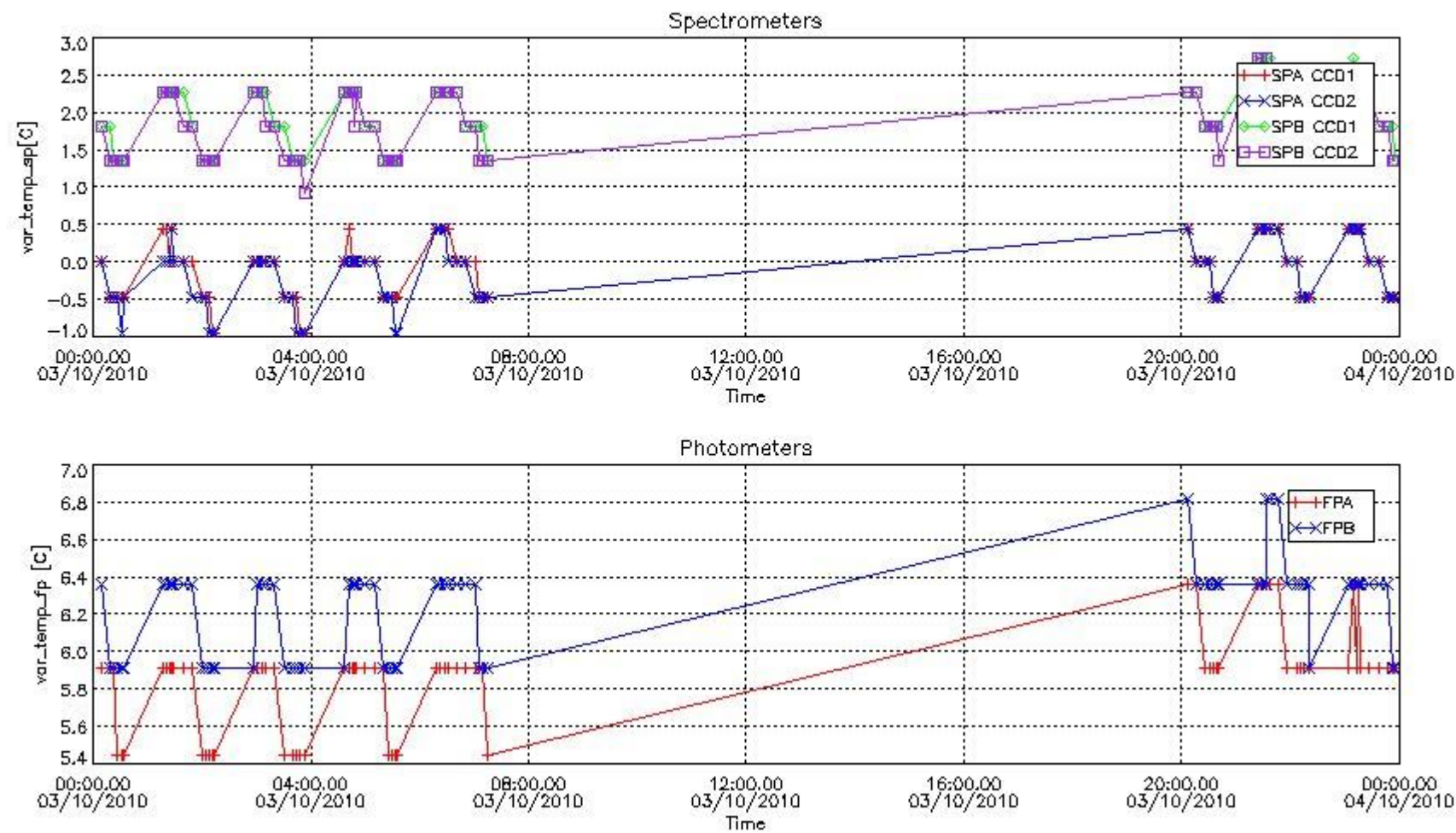
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20101003_000847_000000492093_00274_44917_8375.N1	03-OCT-2010 00:08:47	Straylight	48.500	52	16Bet Cet	2.0370	4500.0	97	44917	No
2	GOM_TRA_1PNPDE20101003_001907_000000402093_00274_44917_8376.N1	03-OCT-2010 00:19:07	Bright	39.500	140	88Gam Peg	2.8340	26000.	79	44917	No
3	GOM_TRA_1PNPDE20101003_002315_000000402093_00274_44917_8377.N1	03-OCT-2010 00:23:15	Bright	40.000	58	21Alp And	2.0730	11000.	80	44917	No
4	GOM_TRA_1PNPDE20101003_002650_000000442093_00274_44917_8378.N1	03-OCT-2010 00:26:50	Bright	44.000	53	43Bet And	2.0480	3300.0	88	44917	No
5	GOM_TRA_1PNPDE20101003_003151_000000392093_00274_44917_8379.N1	03-OCT-2010 00:31:51	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	44917	No
6	GOM_TRA_1PNPDE20101003_003309_000000402093_00274_44917_8380.N1	03-OCT-2010 00:33:09	Bright	39.500	76	27Gam Cas	2.3000	30000.	79	44917	No
7	GOM_TRA_1PNPDE20101003_011614_000000482093_00274_44917_8405.N1	03-OCT-2010 01:16:14	Dark	48.000	132	15Rho Pup	2.8030	6900.0	96	44917	No
8	GOM_TRA_1PNPDE20101003_012035_000000552093_00274_44917_8406.N1	03-OCT-2010 01:20:35	Dark	54.500	37	25Del CMa	1.8300	5900.0	109	44917	No
9	GOM_TRA_1PNPDE20101003_012508_000000412093_00275_44918_8407.N1	03-OCT-2010 01:25:08	Dark	40.500	161	Tau Pup	2.9310	4500.0	81	44918	No
10	GOM_TRA_1PNPDE20101003_012633_000000532093_00275_44918_8408.N1	03-OCT-2010 01:26:33	Dark	53.000	2	Alp Car	-0.73600	7000.0	106	44918	No
11	GOM_TRA_1PNPDE20101003_012907_000000572093_00275_44918_8409.N1	03-OCT-2010 01:29:07	Dark	57.000	108	Alp Col	2.6520	15200.	114	44918	No
12	GOM_TRA_1PNPDE20101003_013856_000000492093_00275_44918_8410.N1	03-OCT-2010 01:38:56	Straylight	49.000	157	The1Eri	2.9060	9300.0	98	44918	No

13	GOM_TRA_1PNPDE20101003_014923_000000502093_00275_44918_8411.N1	03-OCT-2010 01:49:23	Straylight	49.500	52	16Bet Cet	2.0370	4500.0	99	44918	No
14	GOM_TRA_1PNPDE20101003_015943_000000402093_00275_44918_8412.N1	03-OCT-2010 01:59:43	Bright	40.000	140	88Gam Peg	2.8340	26000.	80	44918	No
15	GOM_TRA_1PNPDE20101003_020350_000000392093_00275_44918_8413.N1	03-OCT-2010 02:03:50	Bright	38.500	58	21Alp And	2.0730	11000.	77	44918	No
16	GOM_TRA_1PNPDE20101003_020725_000000502093_00275_44918_8414.N1	03-OCT-2010 02:07:25	Bright	49.500	53	43Bet And	2.0480	3300.0	99	44918	No
17	GOM_TRA_1PNPDE20101003_021227_000000392093_00275_44918_8415.N1	03-OCT-2010 02:12:27	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	44918	No
18	GOM_TRA_1PNPDE20101003_021344_000000392093_00275_44918_8416.N1	03-OCT-2010 02:13:44	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	44918	No
19	GOM_TRA_1PNPDE20101003_025651_000000472093_00275_44918_8417.N1	03-OCT-2010 02:56:51	Dark	47.000	132	15Rho Pup	2.8030	6900.0	94	44918	No
20	GOM_TRA_1PNPDE20101003_030112_000000592093_00275_44918_8418.N1	03-OCT-2010 03:01:12	Dark	59.000	37	25Del CMa	1.8300	5900.0	118	44918	No
21	GOM_TRA_1PNPDE20101003_030545_000000432093_00276_44919_8419.N1	03-OCT-2010 03:05:45	Dark	42.500	161	Tau Pup	2.9310	4500.0	85	44919	No
22	GOM_TRA_1PNPDE20101003_030709_000000452093_00276_44919_8420.N1	03-OCT-2010 03:07:09	Dark	44.500	2	Alp Car	-0.73600	7000.0	89	44919	No
23	GOM_TRA_1PNPDE20101003_030945_000000592093_00276_44919_8421.N1	03-OCT-2010 03:09:45	Dark	59.000	108	Alp Col	2.6520	15200.	118	44919	No
24	GOM_TRA_1PNPDE20101003_031932_000000492093_00276_44919_8422.N1	03-OCT-2010 03:19:32	Straylight	48.500	157	The1Eri	2.9060	9300.0	97	44919	No
25	GOM_TRA_1PNPDE20101003_032959_000000512093_00276_44919_8423.N1	03-OCT-2010 03:29:59	Straylight	51.000	52	16Bet Cet	2.0370	4500.0	102	44919	No
26	GOM_TRA_1PNPDE20101003_034018_000000392093_00276_44919_8424.N1	03-OCT-2010 03:40:18	Bright	39.000	140	88Gam Peg	2.8340	26000.	78	44919	No
27	GOM_TRA_1PNPDE20101003_034426_000000402093_00276_44919_8425.N1	03-OCT-2010 03:44:26	Bright	39.500	58	21Alp And	2.0730	11000.	79	44919	No
28	GOM_TRA_1PNPDE20101003_034801_000000482093_00276_44919_8426.N1	03-OCT-2010 03:48:01	Bright	48.000	53	43Bet And	2.0480	3300.0	96	44919	No
29	GOM_TRA_1PNPDE20101003_035303_000000392093_00276_44919_8433.N1	03-OCT-2010 03:53:03	Bright	38.500	74	11Bet Cas	2.2680	6600.0	77	44919	No
30	GOM_TRA_1PNPDE20101003_035420_000000412093_00276_44919_8434.N1	03-OCT-2010 03:54:20	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	44919	No
31	GOM_TRA_1PNPDE20101003_043728_000000462093_00276_44919_8435.N1	03-OCT-2010 04:37:28	Dark	46.000	132	15Rho Pup	2.8030	6900.0	92	44919	No
32	GOM_TRA_1PNPDE20101003_044150_000000612093_00276_44919_8436.N1	03-OCT-2010 04:41:50	Dark	60.500	37	25Del CMa	1.8300	5900.0	121	44919	No
33	GOM_TRA_1PNPDE20101003_044622_000000422093_00277_44920_8437.N1	03-OCT-2010 04:46:22	Dark	42.000	161	Tau Pup	2.9310	4500.0	84	44920	No
34	GOM_TRA_1PNPDE20101003_044746_000000572093_00277_44920_8438.N1	03-OCT-2010 04:47:46	Dark	56.500	2	Alp Car	-0.73600	7000.0	113	44920	No
35	GOM_TRA_1PNPDE20101003_045022_000000572093_00277_44920_8439.N1	03-OCT-2010 04:50:22	Dark	57.000	108	Alp Col	2.6520	15200.	114	44920	No
36	GOM_TRA_1PNPDE20101003_050009_000000482093_00277_44920_8440.N1	03-OCT-2010 05:00:09	Straylight	47.500	157	The1Eri	2.9060	9300.0	95	44920	No
37	GOM_TRA_1PNPDE20101003_051036_000000492093_00277_44920_8441.N1	03-OCT-2010 05:10:36	Straylight	49.000	52	16Bet Cet	2.0370	4500.0	98	44920	No
38	GOM_TRA_1PNPDE20101003_052054_000000402093_00277_44920_8442.N1	03-OCT-2010 05:20:54	Bright	39.500	140	88Gam Peg	2.8340	26000.	79	44920	No
39	GOM_TRA_1PNPDE20101003_052502_000000402093_00277_44920_8443.N1	03-OCT-2010 05:25:02	Bright	40.000	58	21Alp And	2.0730	11000.	80	44920	No
40	GOM_TRA_1PNPDE20101003_052836_000000492093_00277_44920_8444.N1	03-OCT-2010 05:28:36	Bright	49.000	53	43Bet And	2.0480	3300.0	98	44920	No
41	GOM_TRA_1PNPDE20101003_053339_000000382093_00277_44920_8445.N1	03-OCT-2010 05:33:39	Bright	37.500	74	11Bet Cas	2.2680	6600.0	75	44920	No
42	GOM_TRA_1PNPDE20101003_053456_000000412093_00277_44920_8446.N1	03-OCT-2010 05:34:56	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	44920	No
43	GOM_TRA_1PNPDE20101003_061805_000000462093_00277_44920_8467.N1	03-OCT-2010 06:18:05	Dark	46.000	132	15Rho Pup	2.8030	6900.0	92	44920	No
44	GOM_TRA_1PNPDE20101003_062227_000000552093_00277_44920_8468.N1	03-OCT-2010 06:22:27	Dark	55.000	37	25Del CMa	1.8300	5900.0	110	44920	No
45	GOM_TRA_1PNPDE20101003_062658_000000422093_00278_44921_8469.N1	03-OCT-2010 06:26:58	Dark	41.500	161	Tau Pup	2.9310	4500.0	83	44921	No
46	GOM_TRA_1PNPDE20101003_062823_000000602093_00278_44921_8470.N1	03-OCT-2010 06:28:23	Dark	59.500	2	Alp Car	-0.73600	7000.0	119	44921	No
47	GOM_TRA_1PNPDE20101003_063059_000000572093_00278_44921_8471.N1	03-OCT-2010 06:30:59	Dark	57.000	108	Alp Col	2.6520	15200.	114	44921	No
48	GOM_TRA_1PNPDE20101003_064046_000000502093_00278_44921_8472.N1	03-OCT-2010 06:40:46	Straylight	49.500	157	The1Eri	2.9060	9300.0	99	44921	No
49	GOM_TRA_1PNPDE20101003_065112_000000472093_00278_44921_8473.N1	03-OCT-2010 06:51:12	Straylight	47.000	52	16Bet Cet	2.0370	4500.0	94	44921	No
50	GOM_TRA_1PNPDE20101003_070130_000000392093_00278_44921_8474.N1	03-OCT-2010 07:01:30	Bright	38.500	140	88Gam Peg	2.8340	26000.	77	44921	No
51	GOM_TRA_1PNPDE20101003_070537_000000412093_00278_44921_8475.N1	03-OCT-2010 07:05:37	Bright	40.500	58	21Alp And	2.0730	11000.	81	44921	No
52	GOM_TRA_1PNPDE20101003_070911_000000472093_00278_44921_8476.N1	03-OCT-2010 07:09:11	Bright	47.000	53	43Bet And	2.0480	3300.0	94	44921	No
53	GOM_TRA_1PNPDE20101003_071414_000000392093_00278_44921_8477.N1	03-OCT-2010 07:14:14	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	44921	No
54	GOM_TRA_1PNPDE20101003_071531_000000382093_00278_44921_8478.N1	03-OCT-2010 07:15:31	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	44921	No
55	GOM_TRA_1PNPDE20101003_200539_000000462093_00286_44929_8563.N1	03-OCT-2010 20:05:39	Straylight	46.000	157	The1Eri	2.9060	9300.0	92	44929	No
56	GOM_TRA_1PNPDE20101003_201600_000000472093_00286_44929_8564.N1	03-OCT-2010 20:16:00	Straylight	47.000	52	16Bet Cet	2.0370	4500.0	94	44929	No
57	GOM_TRA_1PNPDE20101003_202616_000000402093_00286_44929_8565.N1	03-OCT-2010 20:26:16	Bright	39.500	140	88Gam Peg	2.8340	26000.	79	44929	No
58	GOM_TRA_1PNPDE20101003_203023_000000402093_00286_44929_8566.N1	03-OCT-2010 20:30:23	Bright	40.000	58	21Alp And	2.0730	11000.	80	44929	No
59	GOM_TRA_1PNPDE20101003_203354_000000442093_00286_44929_8567.N1	03-OCT-2010 20:33:54	Bright	44.000	53	43Bet And	2.0480	3300.0	88	44929	No
60	GOM_TRA_1PNPDE20101003_203900_000000392093_00286_44929_8568.N1	03-OCT-2010 20:39:00	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	44929	No
61	GOM_TRA_1PNPDE20101003_204015_000000392093_00286_44929_8569.N1	03-OCT-2010 20:40:15	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	44929	No
62	GOM_TRA_1PNPDE20101003_212336_000000492093_00286_44929_8589.N1	03-OCT-2010 21:23:36	Dark	49.000	132	15Rho Pup	2.8030	6900.0	98	44929	No
63	GOM_TRA_1PNPDE20101003_212802_000000682093_00286_44929_8590.N1	03-OCT-2010 21:28:02	Dark	68.000	37	25Del CMa	1.8300	5900.0	136	44929	No
64	GOM_TRA_1PNPDE20101003_213229_000000462093_00287_44930_8591.N1	03-OCT-2010 21:32:29	Dark	45.500	161	Tau Pup	2.9310	4500.0	91	44930	No
65	GOM_TRA_1PNPDE20101003_213353_000000452093_00287_44930_8592.N1	03-OCT-2010 21:33:53	Dark	44.500	2	Alp Car	-0.73600	7000.0	89	44930	No
66	GOM_TRA_1PNPDE20101003_213636_000000472093_00287_44930_8593.N1	03-OCT-2010 21:36:36	Dark	47.000	108	Alp Col	2.6520	15200.	94	44930	No
67	GOM_TRA_1PNPDE20101003_214615_000000502093_00287_44930_8594.N1	03-OCT-2010 21:46:15	Straylight	49.500	157	The1Eri	2.9060	9300.0	99	44930	No
68	GOM_TRA_1PNPDE20101003_215636_000000492093_00287_44930_8595.N1	03-OCT-2010 21:56:36	Straylight	48.500	52	16Bet Cet	2.0370	4500.0	97	44930	No
69	GOM_TRA_1PNPDE20101003_220652_000000392093_00287_44930_8596.N1	03-OCT-2010 22:06:52	Bright	38.500	140	88Gam Peg	2.8340	26000.	77	44930	No
70	GOM_TRA_1PNPDE20101003_221059_000000412093_00287_44930_8597.N1	03-OCT-2010 22:10:59	Bright	41.000	58	21Alp And	2.0730	11000.	82	44930	No
71	GOM_TRA_1PNPDE20101003_221429_000000462093_00287_44930_8598.N1	03-OCT-2010 22:14:29	Bright	45.500	53	43Bet And	2.0480	3300.0	91	44930	No

72	GOM_TRA_1PNPDE20101003_221936_000000362093_00287_44930_8599.N1	03-OCT-2010 22:19:36	Bright	35.500	74	11Bet Cas	2.2680	6600.0	71	44930	No
73	GOM_TRA_1PNPDE20101003_222051_000000392093_00287_44930_8600.N1	03-OCT-2010 22:20:51	Bright	38.500	76	27Gam Cas	2.3000	30000.	77	44930	No
74	GOM_TRA_1PNPDE20101003_230413_000000492093_00287_44930_8605.N1	03-OCT-2010 23:04:13	Dark	49.000	132	15Rho Pup	2.8030	6900.0	98	44930	No
75	GOM_TRA_1PNPDE20101003_230840_000000682093_00287_44930_8606.N1	03-OCT-2010 23:08:40	Dark	68.000	37	25Del CMa	1.8300	5900.0	136	44930	No
76	GOM_TRA_1PNPDE20101003_231305_000000412093_00288_44931_8607.N1	03-OCT-2010 23:13:05	Dark	41.000	161	Tau Pup	2.9310	4500.0	82	44931	No
77	GOM_TRA_1PNPDE20101003_231430_000000462093_00288_44931_8608.N1	03-OCT-2010 23:14:30	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	44931	No
78	GOM_TRA_1PNPDE20101003_231714_000000472093_00288_44931_8609.N1	03-OCT-2010 23:17:14	Dark	47.000	108	Alp Col	2.6520	15200.	94	44931	No
79	GOM_TRA_1PNPDE20101003_232652_000000492093_00288_44931_8610.N1	03-OCT-2010 23:26:52	Straylight	48.500	157	The1Eri	2.9060	9300.0	97	44931	No
80	GOM_TRA_1PNPDE20101003_233712_000000462093_00288_44931_8611.N1	03-OCT-2010 23:37:12	Straylight	45.500	52	16Bet Cet	2.0370	4500.0	91	44931	No
81	GOM_TRA_1PNPDE20101003_234727_000000392093_00288_44931_8612.N1	03-OCT-2010 23:47:27	Bright	39.000	140	88Gam Peg	2.8340	26000.	78	44931	No
82	GOM_TRA_1PNPDE20101003_235134_000000392093_00288_44931_8613.N1	03-OCT-2010 23:51:34	Bright	38.500	58	21Alp And	2.0730	11000.	77	44931	No
83	GOM_TRA_1PNPDE20101003_235504_000000442093_00288_44931_8614.N1	03-OCT-2010 23:55:04	Bright	44.000	53	43Bet And	2.0480	3300.0	88	44931	No

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



4. Overview of dark signal processing per product

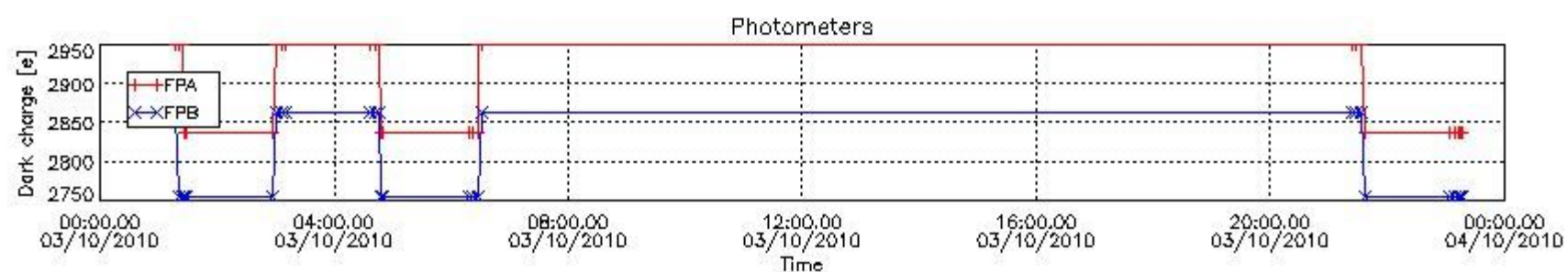
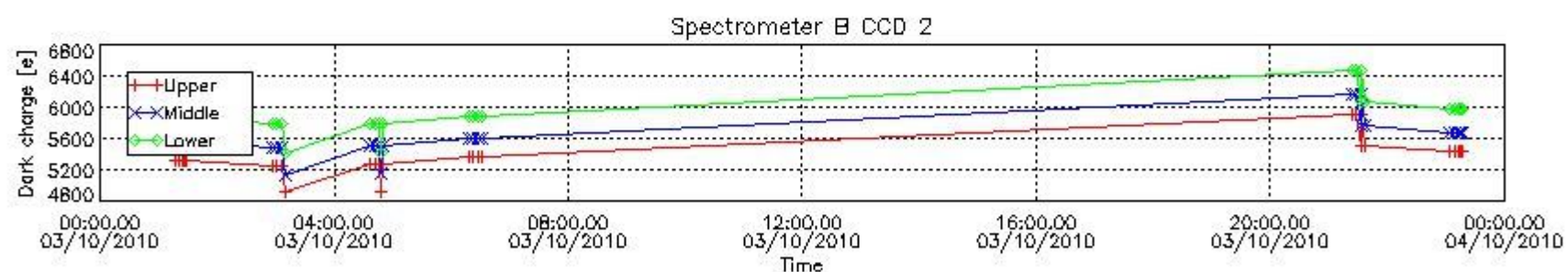
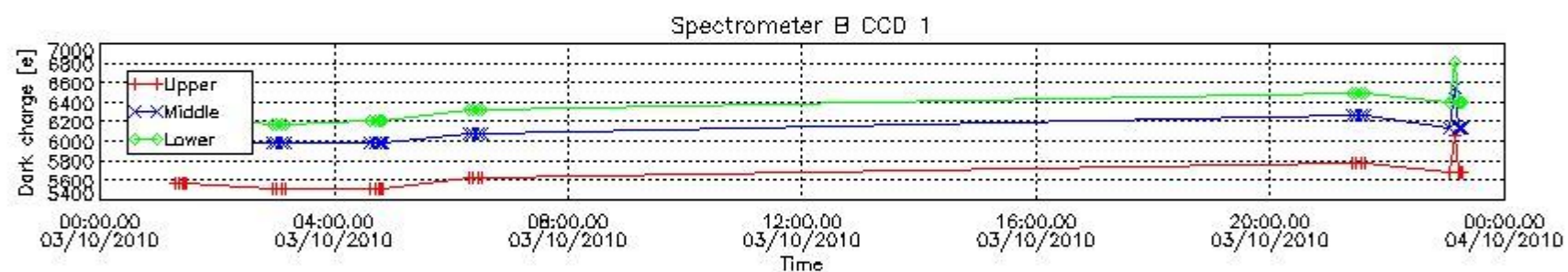
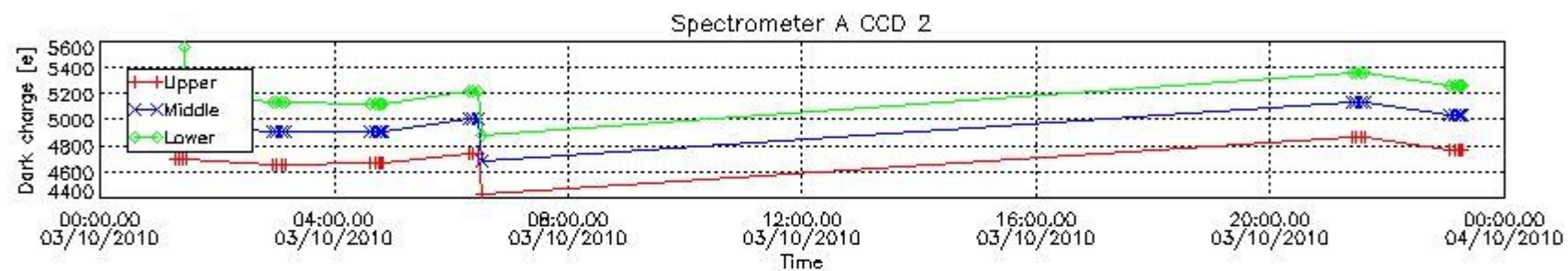
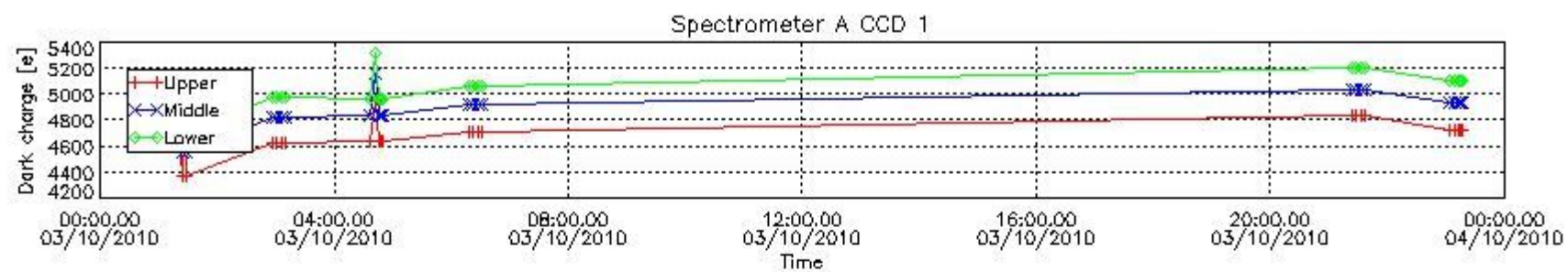
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20101003_200539_000000462093_00286_44929_8563.N1	DC map used
GOM_TRA_1PNPDE20101003_201600_000000472093_00286_44929_8564.N1	DC map used
GOM_TRA_1PNPDE20101003_202616_000000402093_00286_44929_8565.N1	DC map used
GOM_TRA_1PNPDE20101003_203023_000000402093_00286_44929_8566.N1	DC map used
GOM_TRA_1PNPDE20101003_203354_000000442093_00286_44929_8567.N1	DC map used
GOM_TRA_1PNPDE20101003_203900_000000392093_00286_44929_8568.N1	DC map used
GOM_TRA_1PNPDE20101003_204015_000000392093_00286_44929_8569.N1	DC map used

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



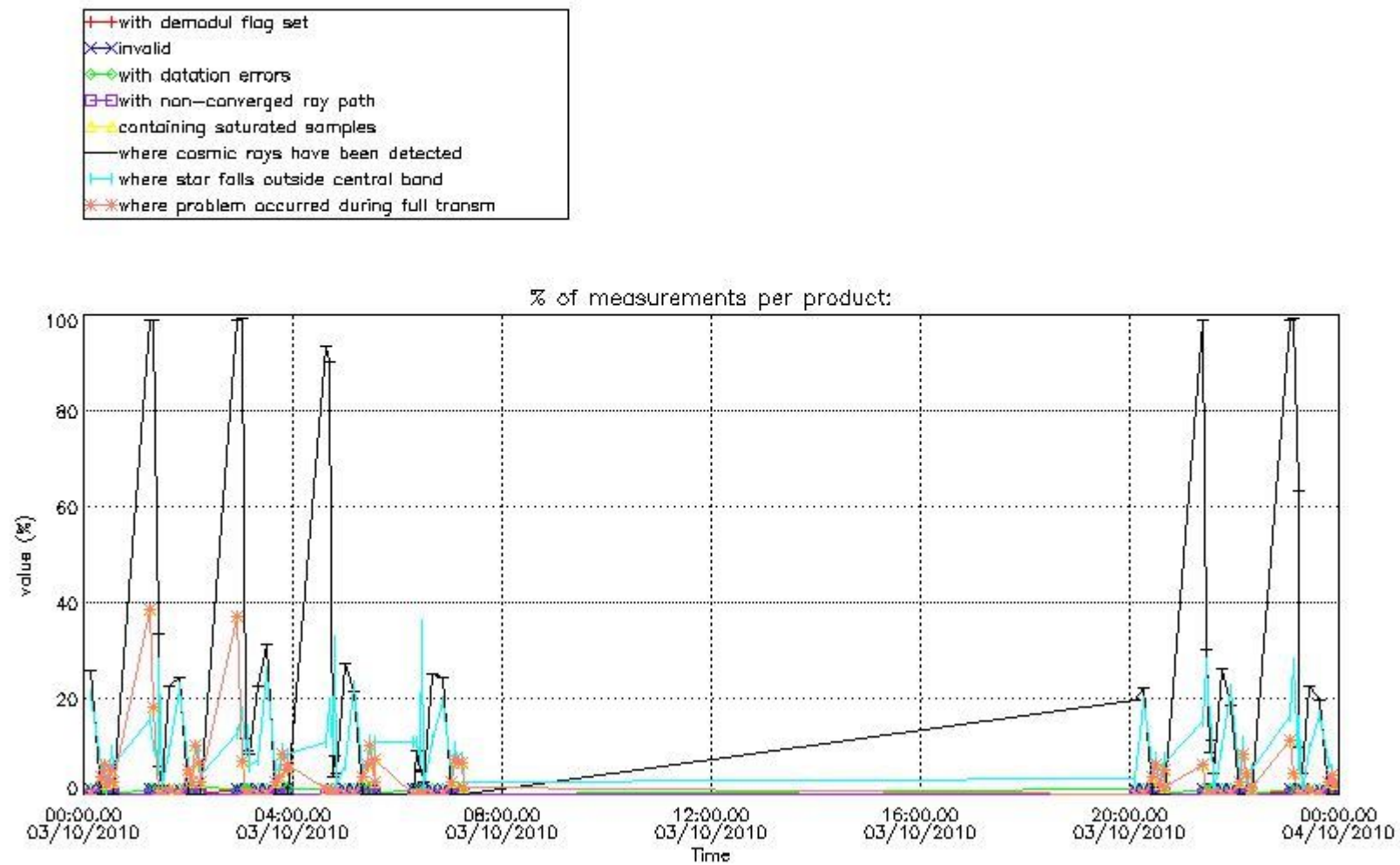
5. Demodulation flag and quality information monitoring

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

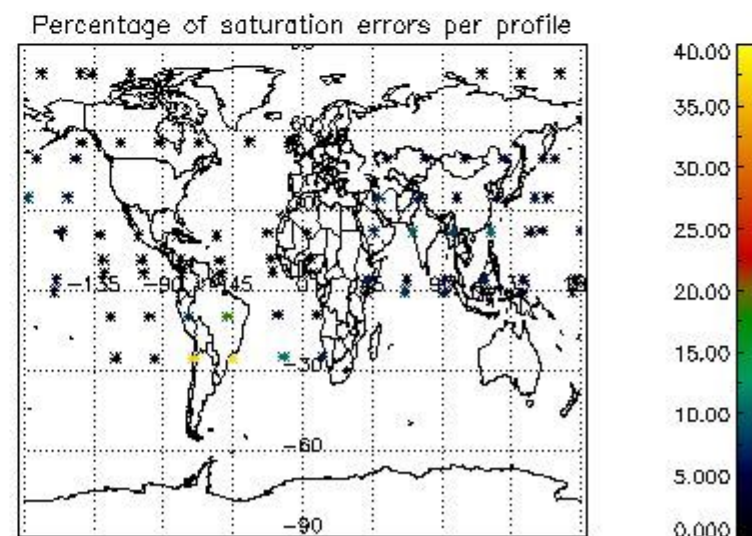
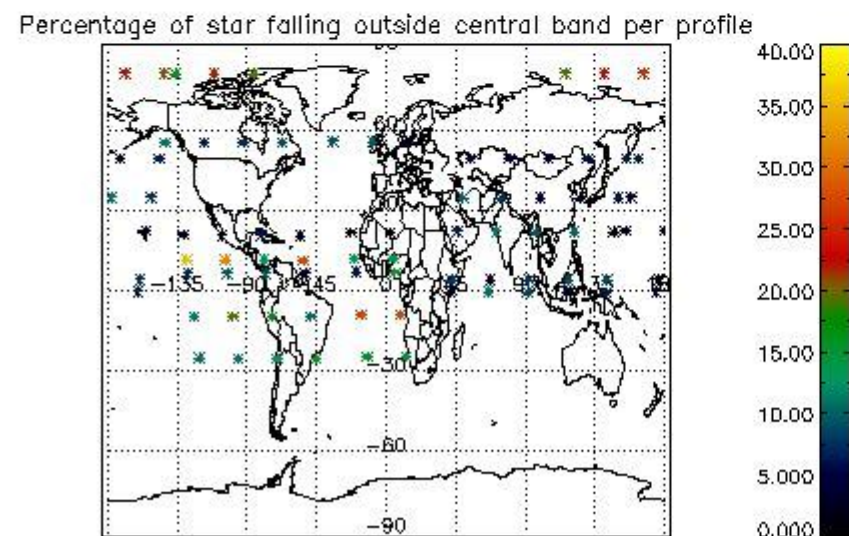
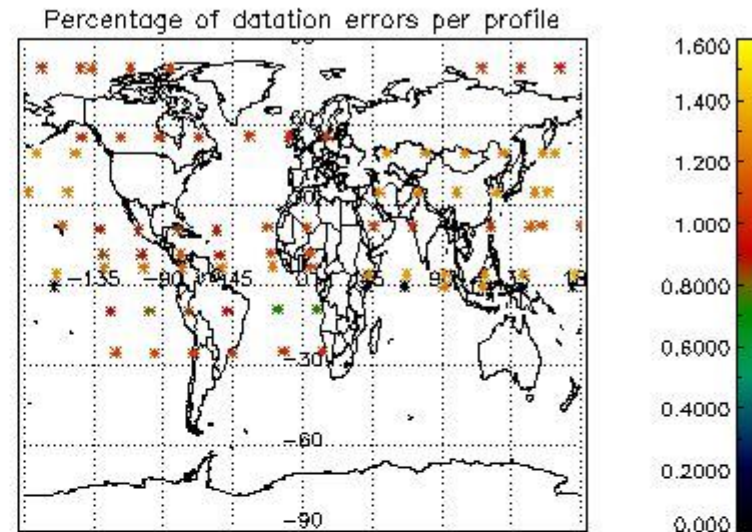
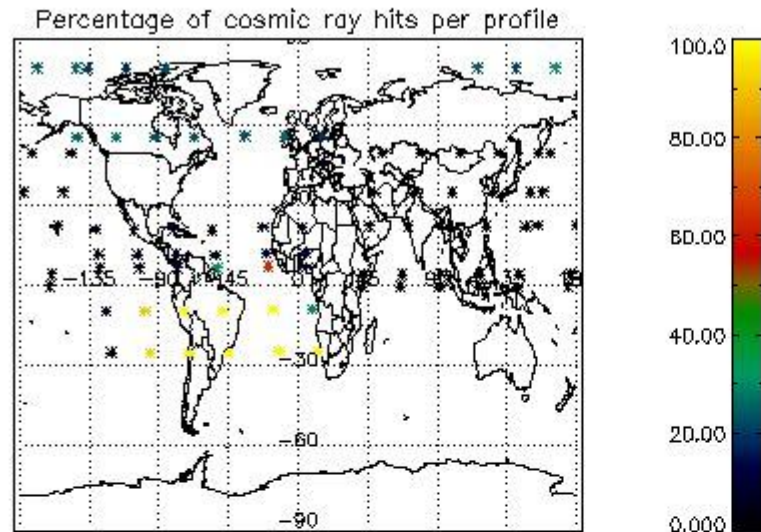
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	44.5783 %
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)



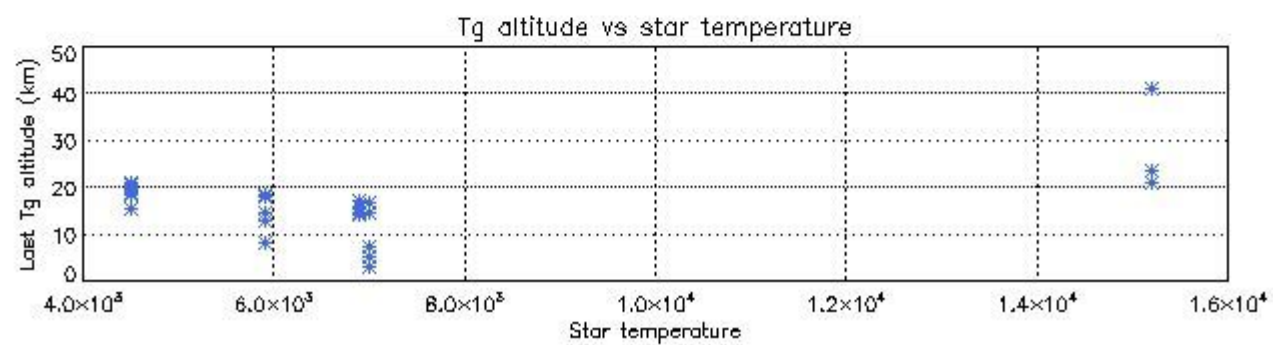
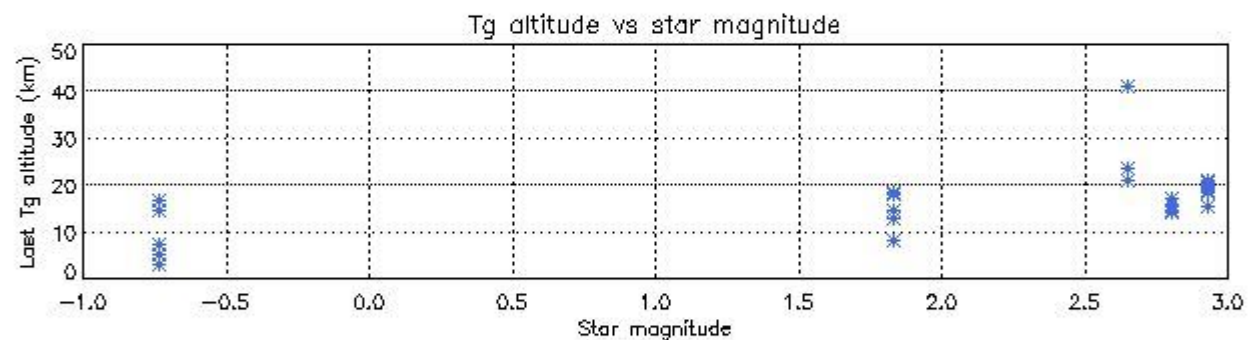
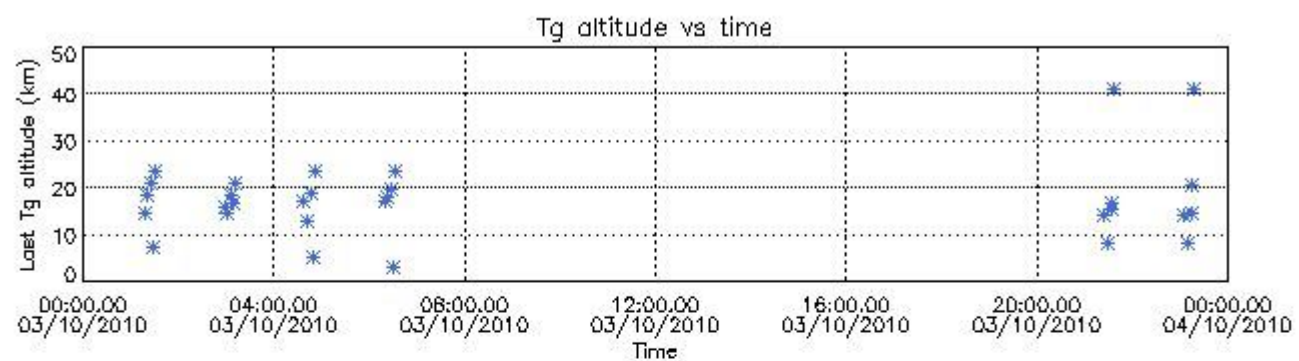
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.390	21.038	NaN
St. deviation:	8.2573	2.1378	NaN
Maximum:	41.119	25.966	NaN
Minimum:	3.1429	16.943	NaN
Number of data:	30.000	38.000	NaN

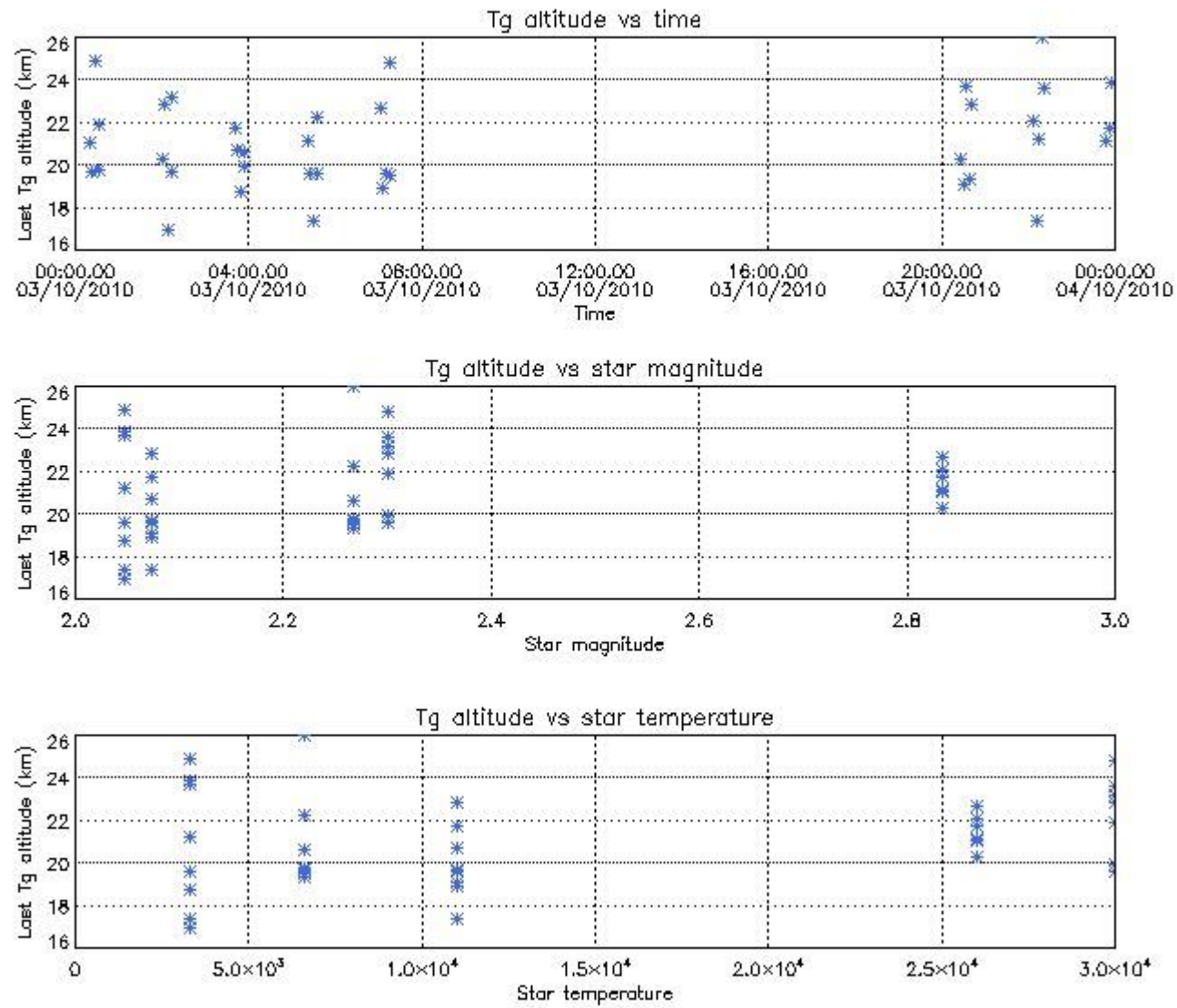
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

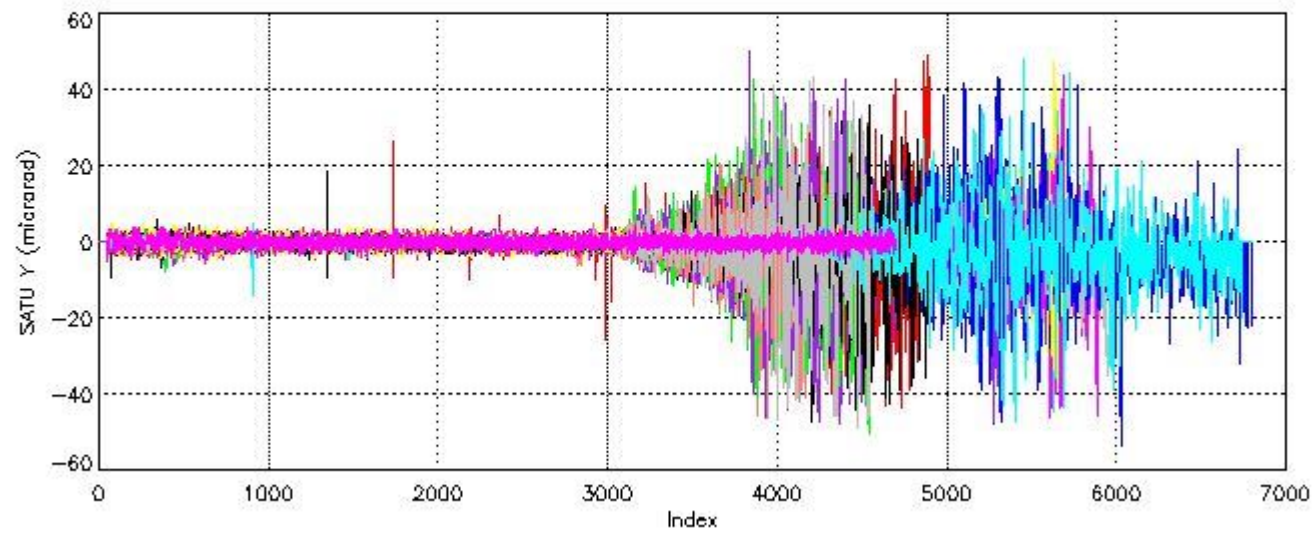
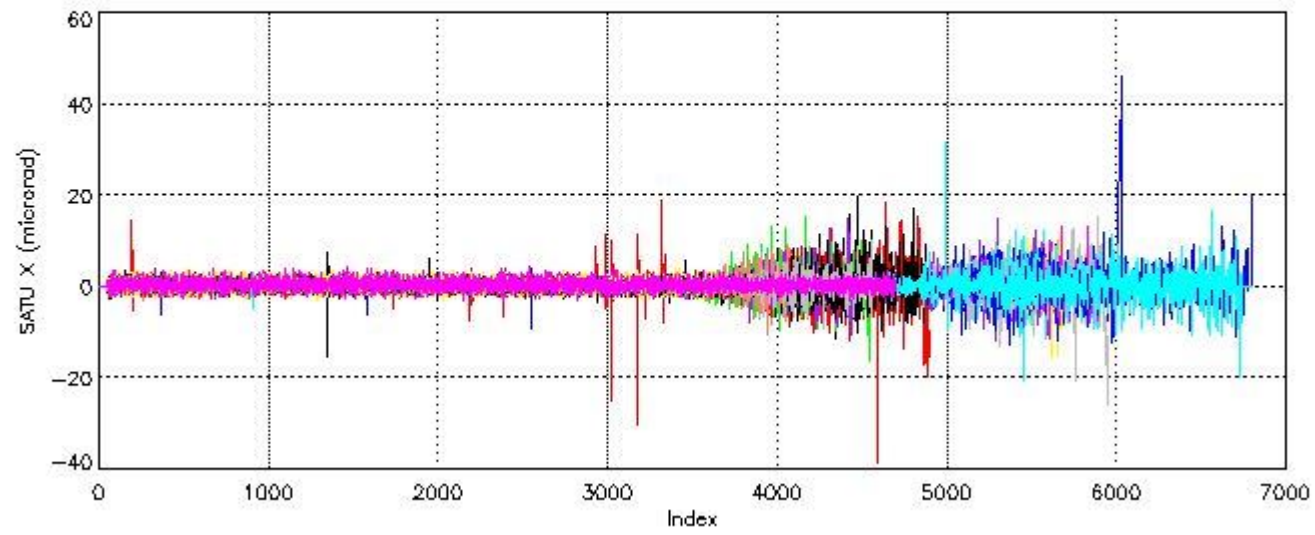


7. Star Acquisition and Tracking Unit (SATU)

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:	0.24866	-0.29976	0.19820	-0.37007
St. deviation:	0.56891	0.99916	0.82848	1.2118
Maximum:	14.600	5.8000	6.0000	7.0000
Minimum:	-6.3000	-14.300	-5.5000	-10.400

Number of data:	33600.	33600.	37400.	37400.
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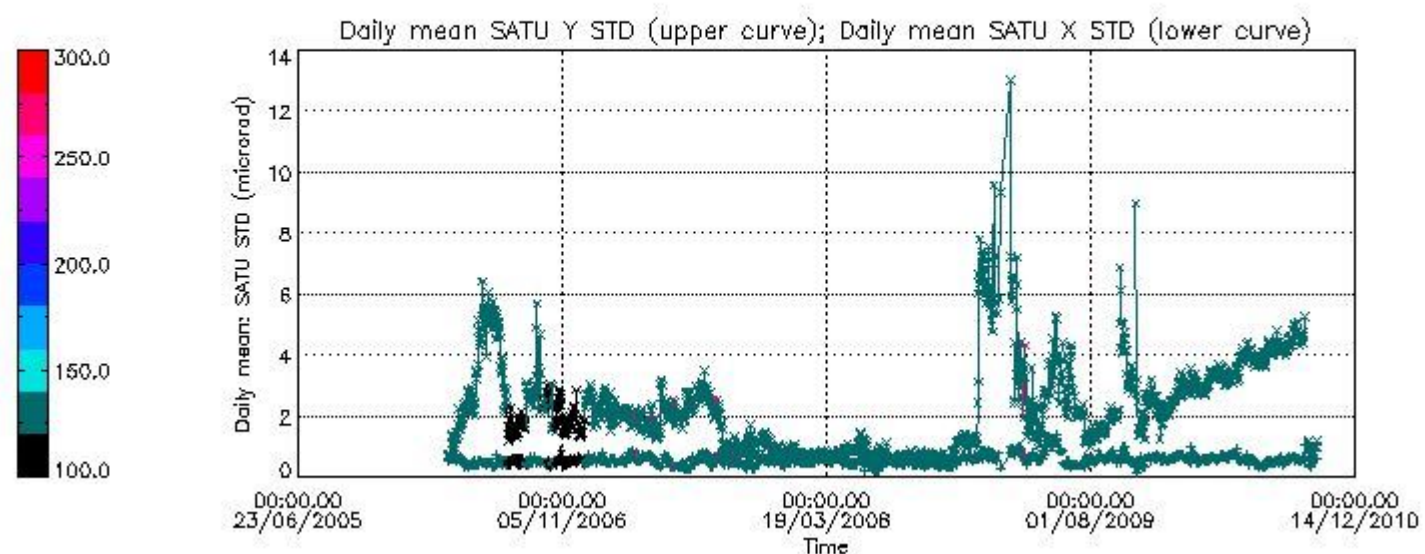
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

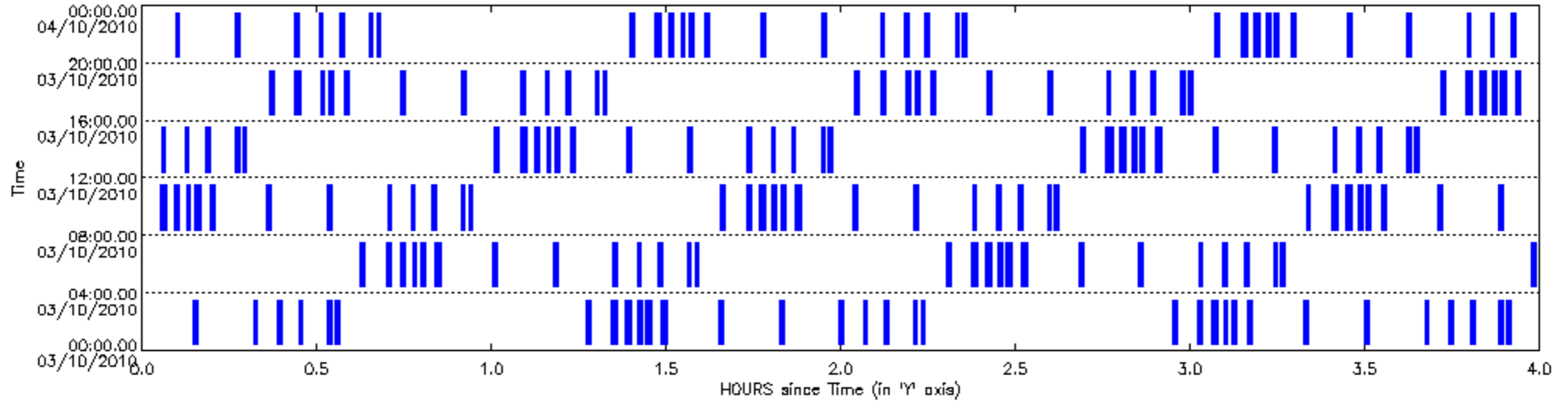
Lower curve: STD of SATU X axis

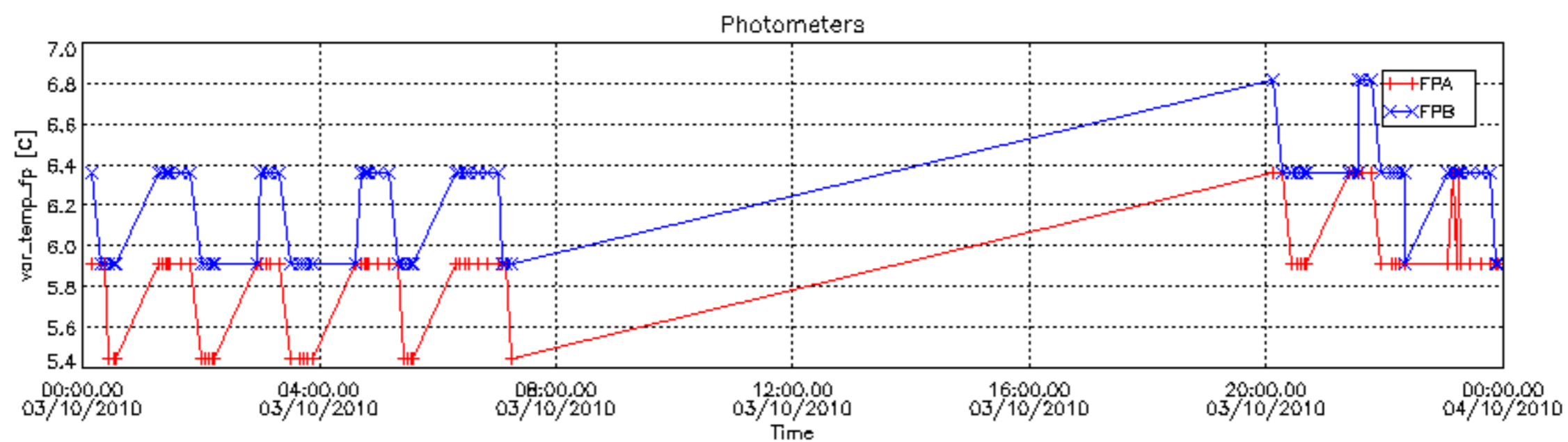
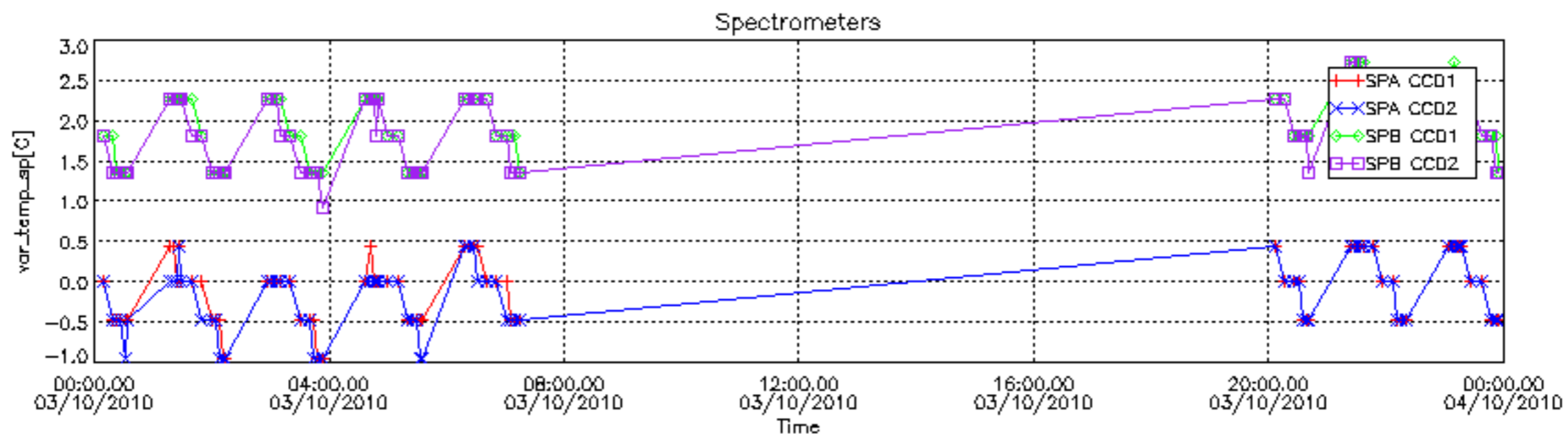


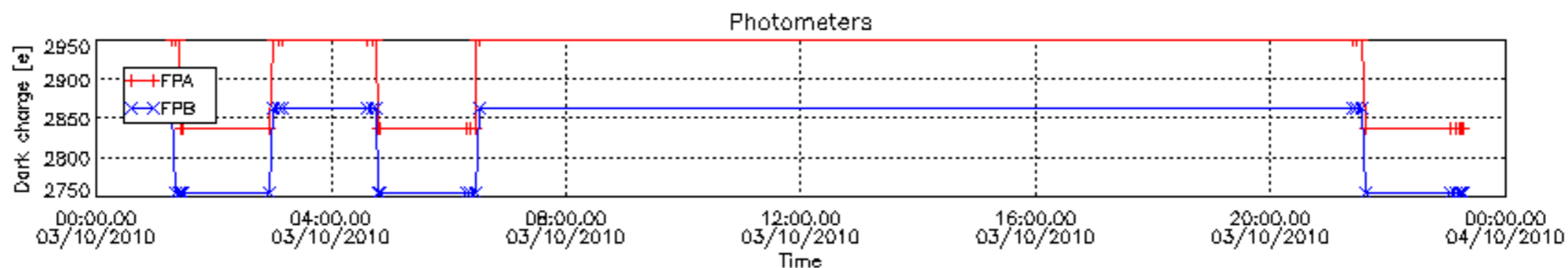
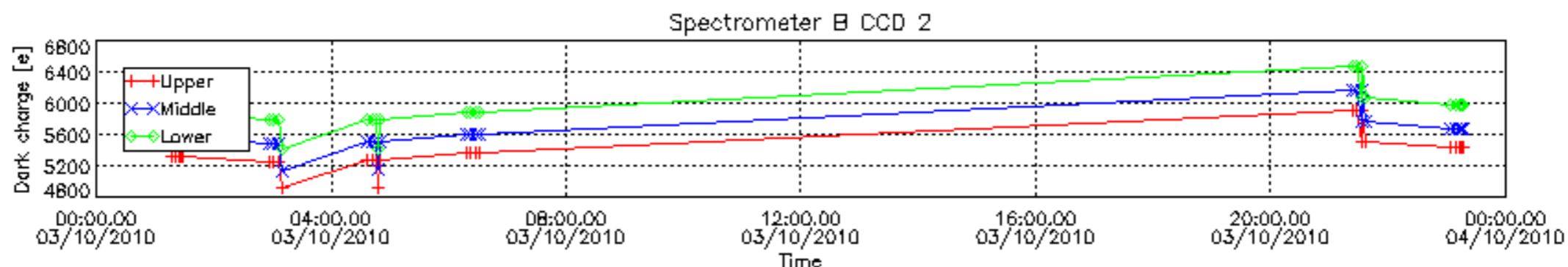
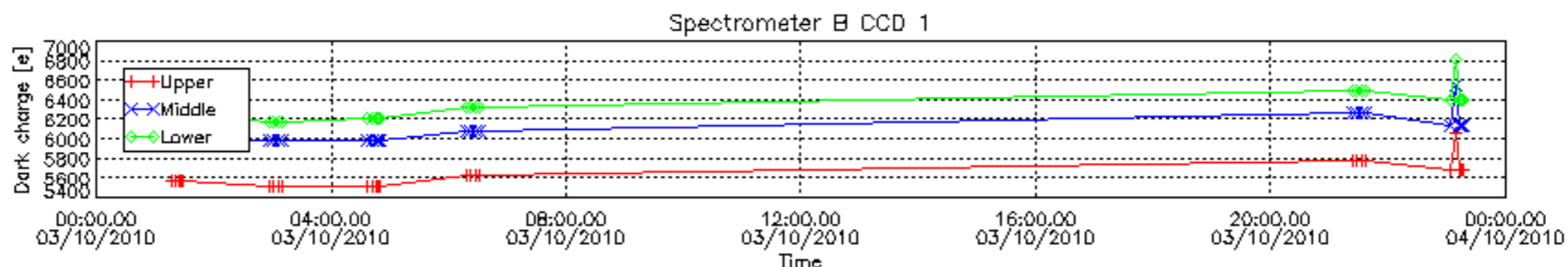
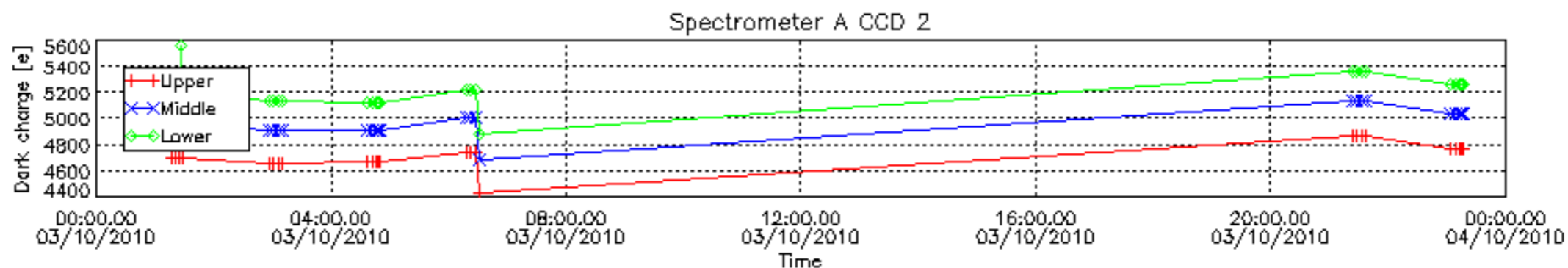
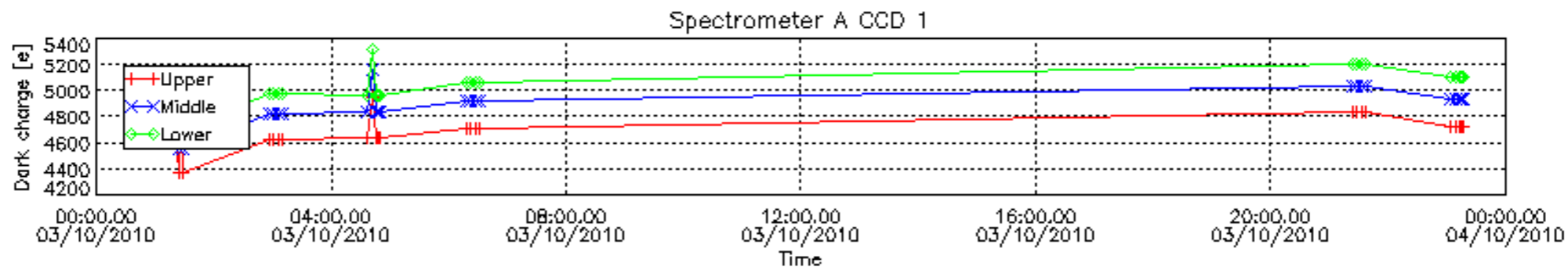
8. Auxiliary Data Files used for the production reported in section 2.4

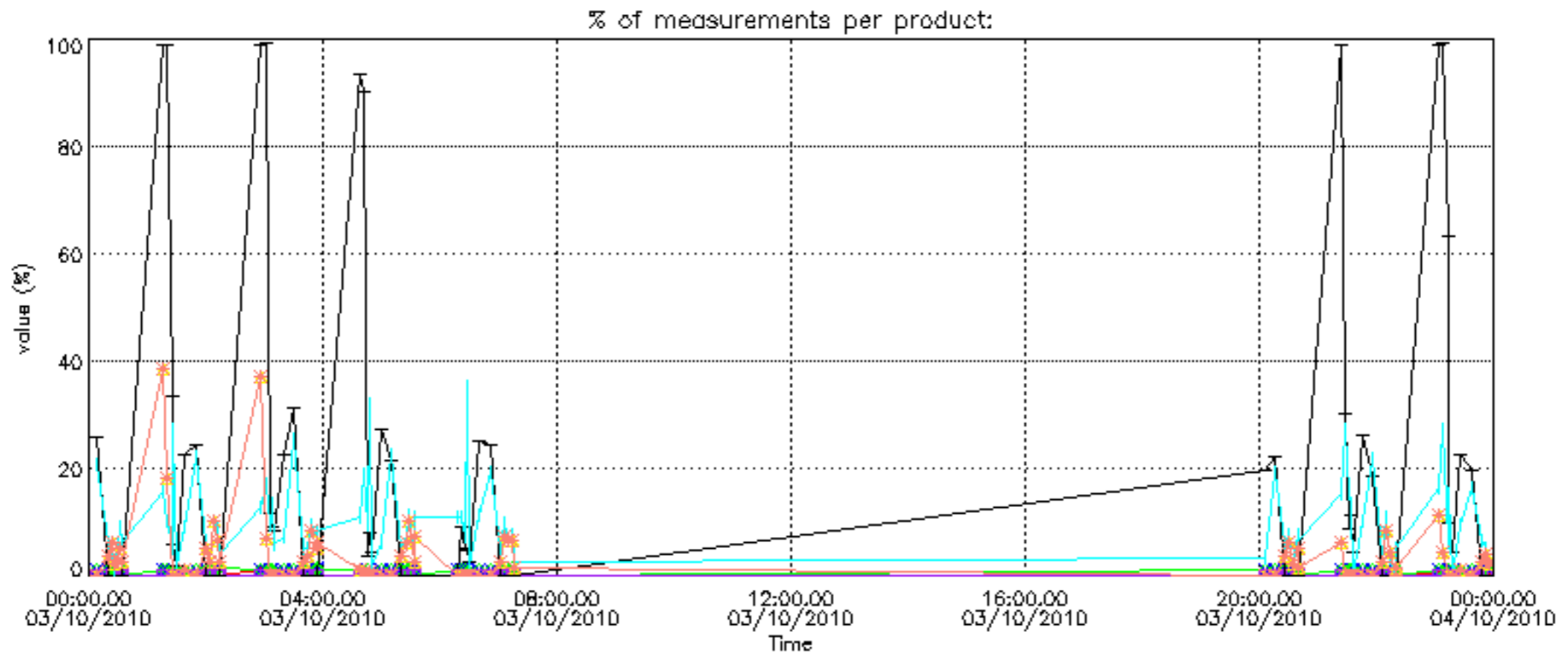
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	03-OCT-2010 00:08:47
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100923_133008_20100922_000000_20500101_000000	1	03-OCT-2010 00:08:47
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	03-OCT-2010 00:08:47
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	03-OCT-2010 00:08:47
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	03-OCT-2010 00:08:47
ECMWF_FILE	AUX_ECF_AXNECM20101002_060438_20101002_210000_20101003_090000	1	03-OCT-2010 00:08:47
ECMWF_FILE	AUX_ECF_AXNECM20101002_172436_20101003_030000_20101003_150000	29	03-OCT-2010 03:53:03
ECMWF_FILE	AUX_ECA_AXNECM20101003_052112_20101002_210000_20101003_090000	43	03-OCT-2010 06:18:05
ECMWF_FILE	AUX_ECA_AXNECM20101003_172112_20101003_090000_20101003_210000	55	03-OCT-2010 20:05:39
ECMWF_FILE	AUX_ECF_AXNECM20101003_054114_20101003_210000_20101004_090000	62	03-OCT-2010 21:23:36
OPTIONAL_ECMWF_FILE	MISSING	1	03-OCT-2010 00:08:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101002_233003_000057382093_00273_44916_1182.N1	1	03-OCT-2010 00:08:47
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20101002_092437_20101001_191236_20101011_203848	7	03-OCT-2010 01:16:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101003_035024_000063762093_00276_44919_1185.N1	29	03-OCT-2010 03:53:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101003_054159_000057382093_00277_44920_1187.N1	43	03-OCT-2010 06:18:05
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101003_200242_000038252093_00286_44929_1188.N1	55	03-OCT-2010 20:05:39
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101003_211147_000060572093_00286_44929_1189.N1	62	03-OCT-2010 21:23:36
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20101003_092113_20101002_184059_20101012_200710	74	03-OCT-2010 23:04:13

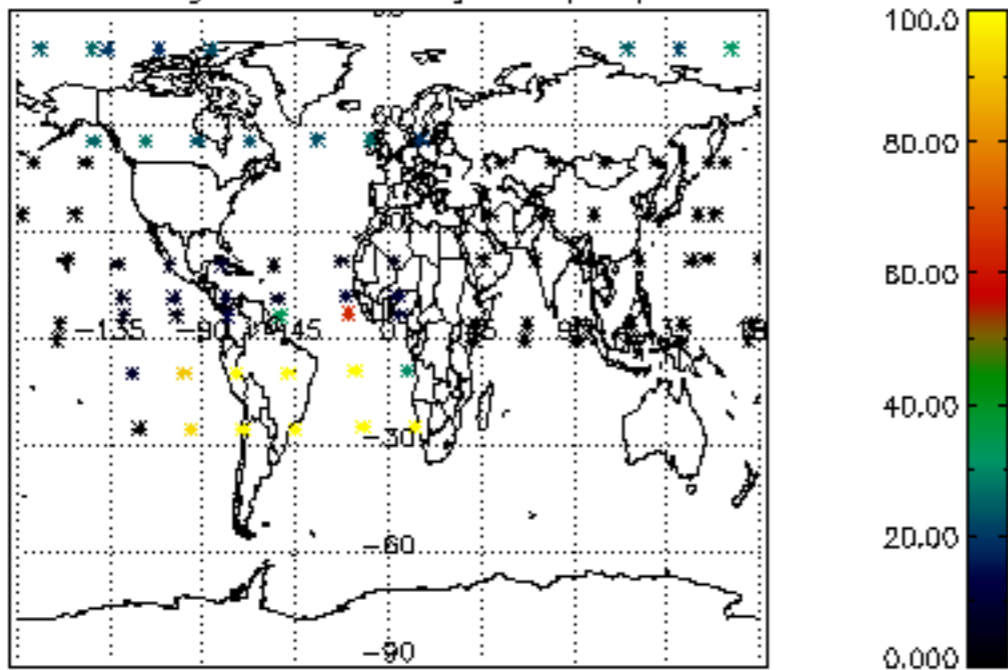




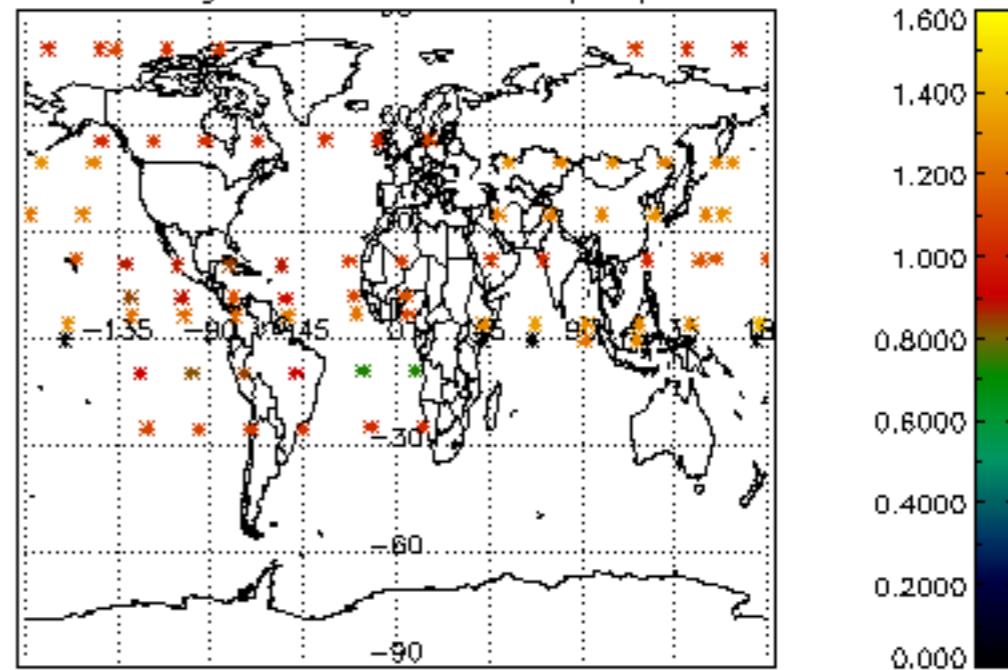




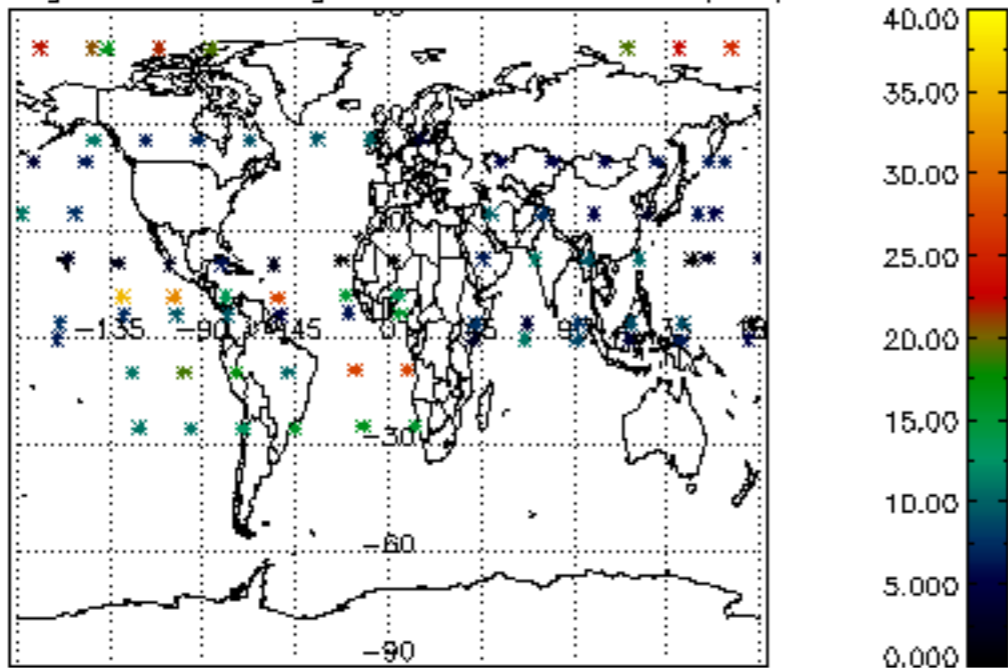
Percentage of cosmic ray hits per profile



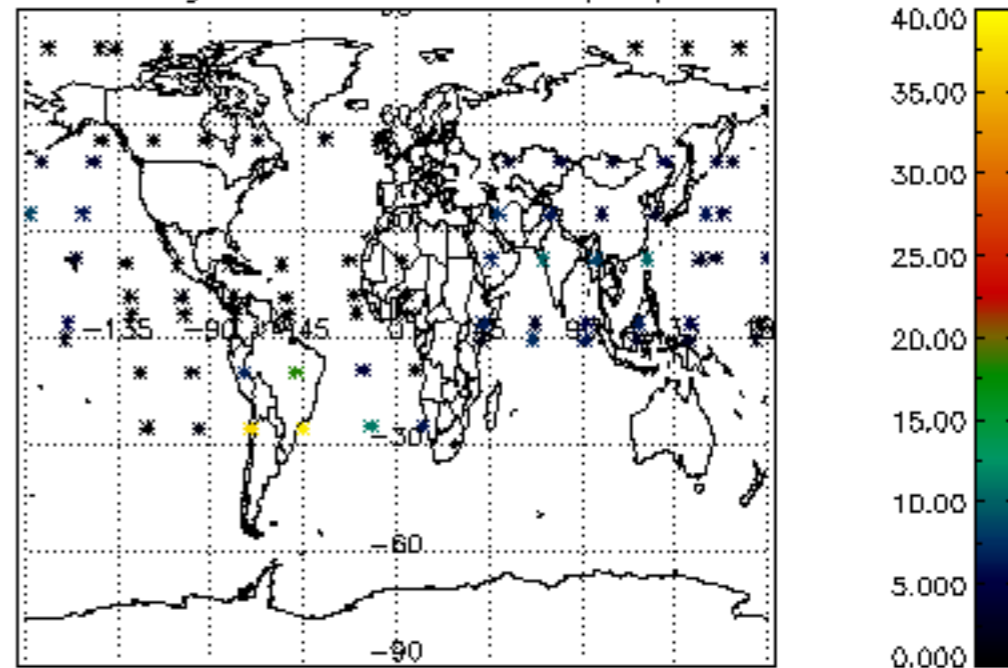
Percentage of datation errors per profile



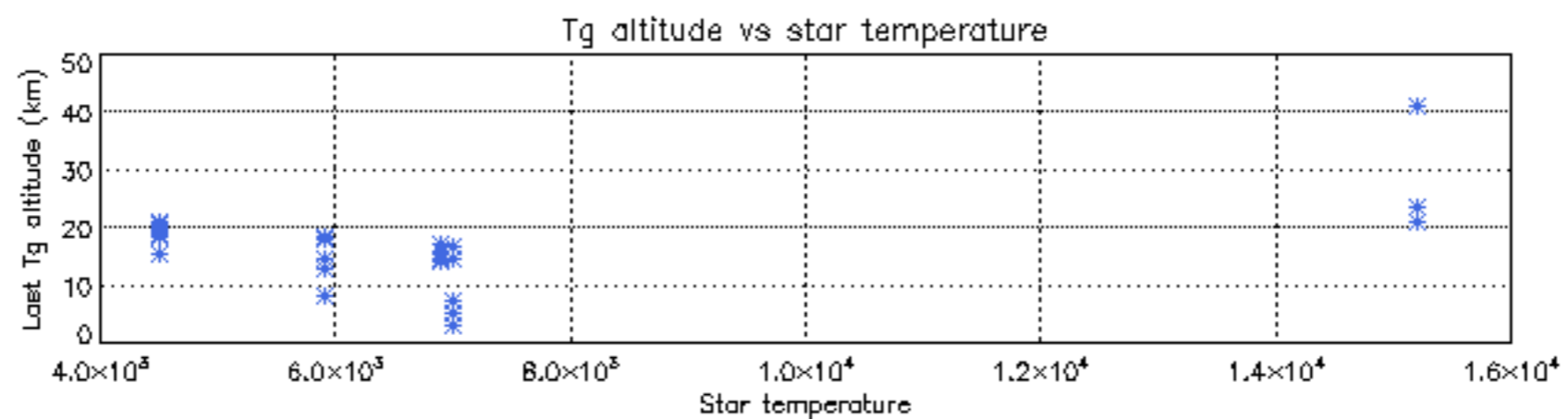
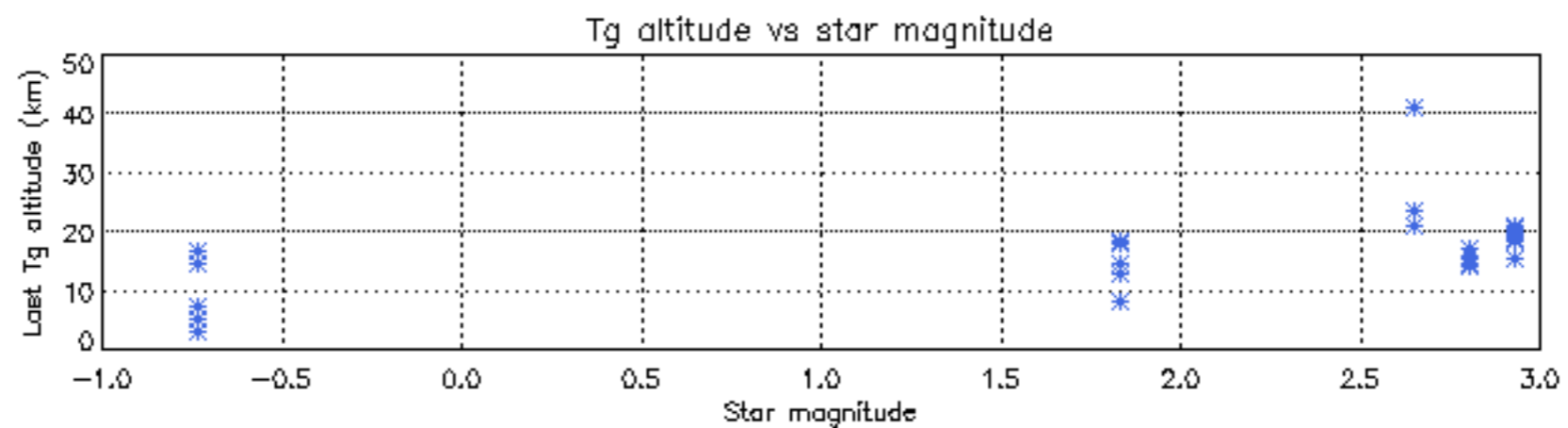
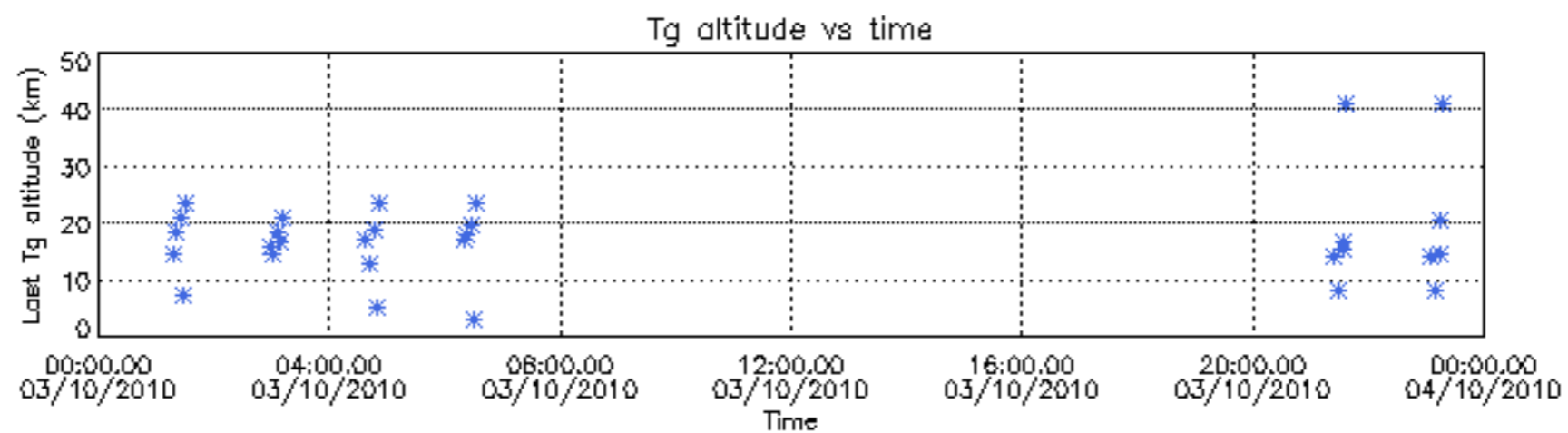
Percentage of star falling outside central band per profile



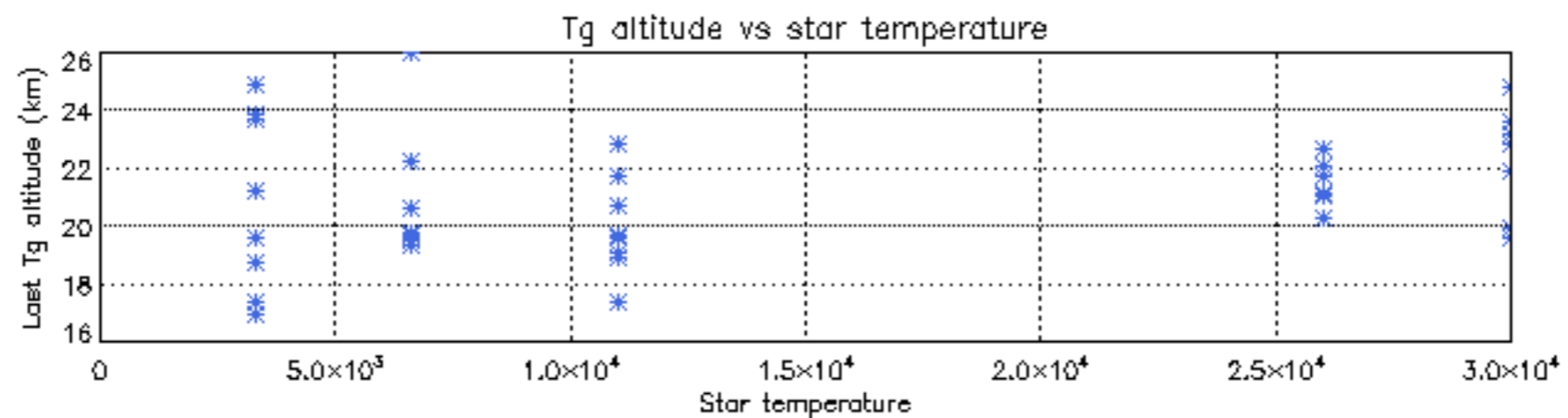
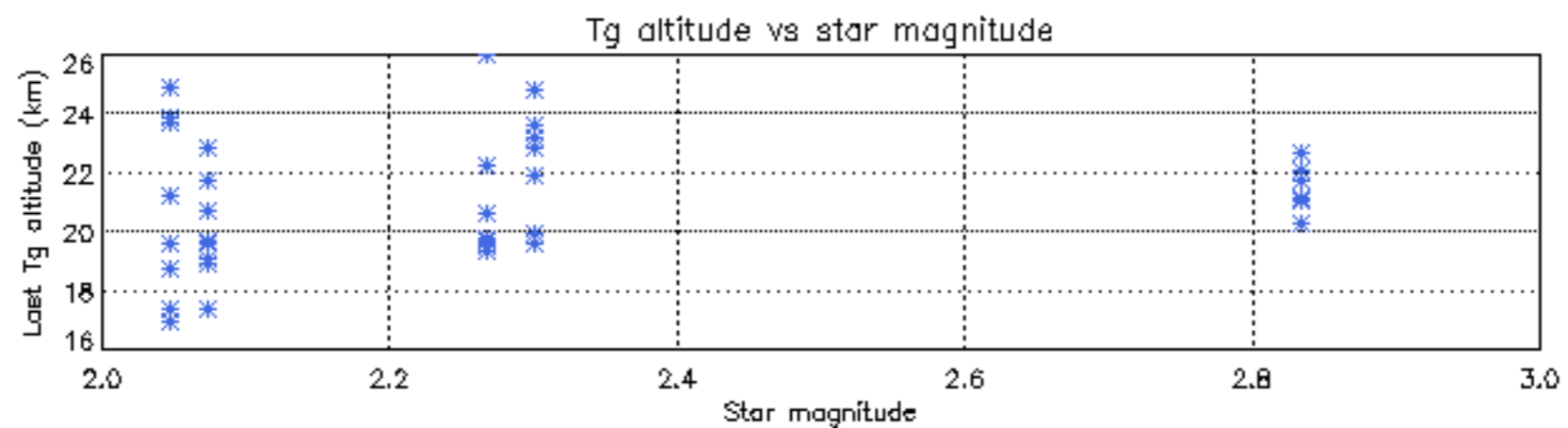
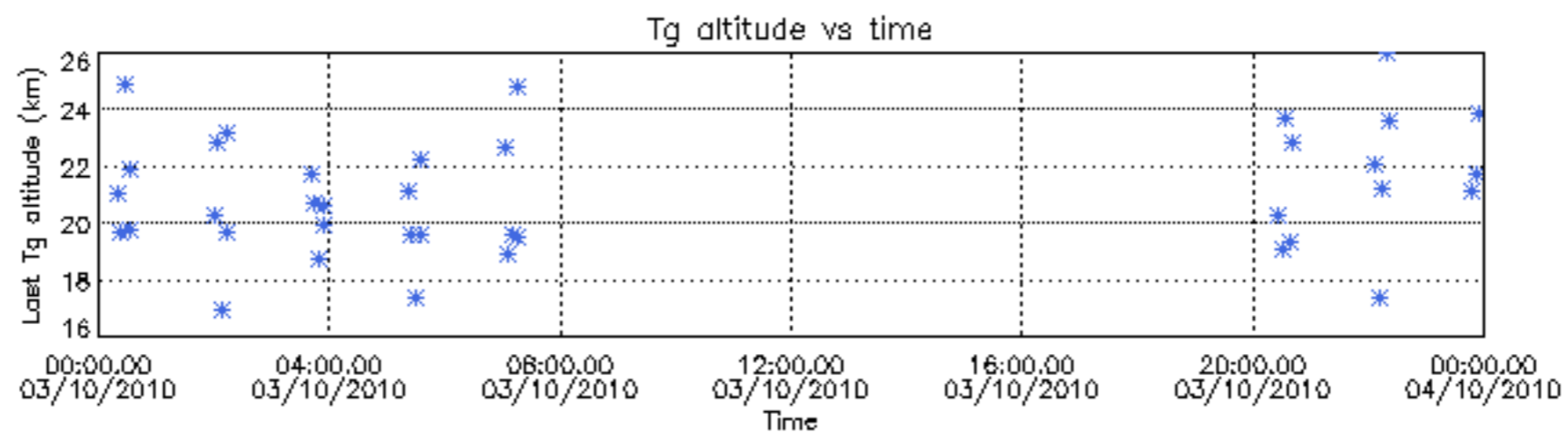
Percentage of saturation errors per profile

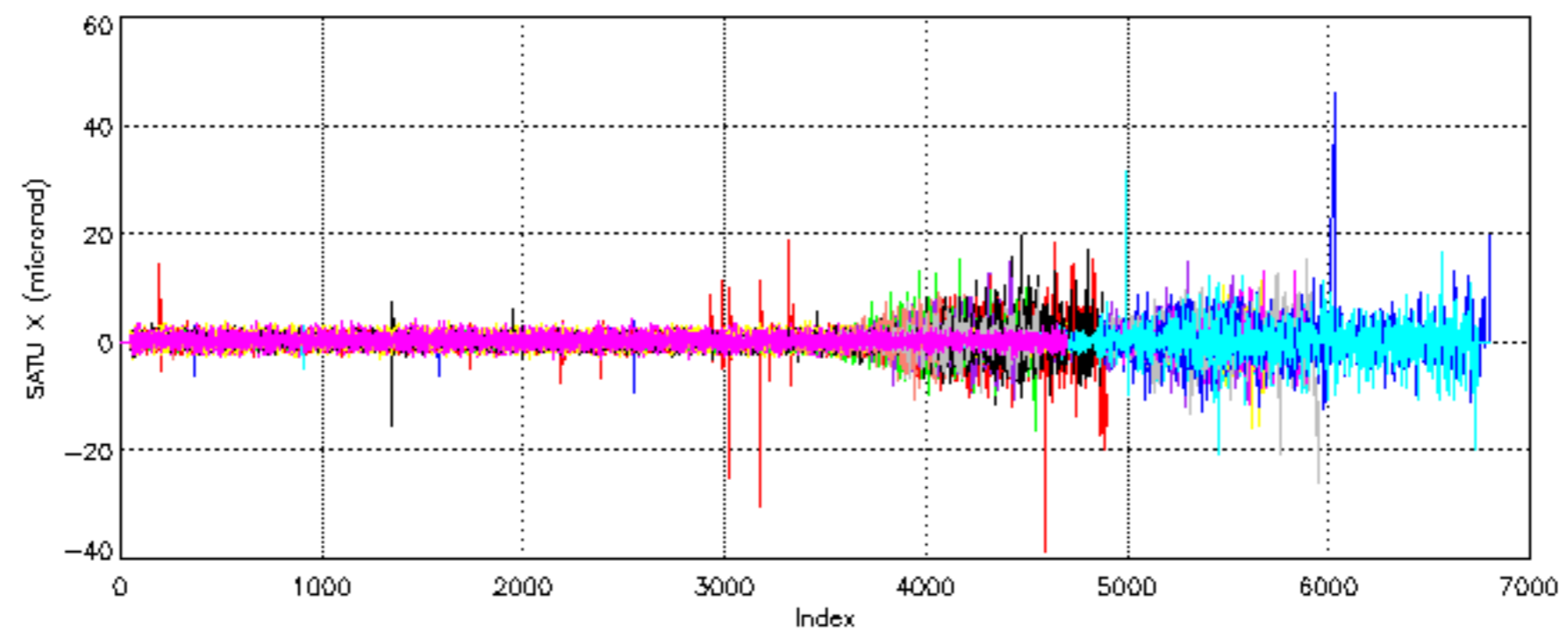


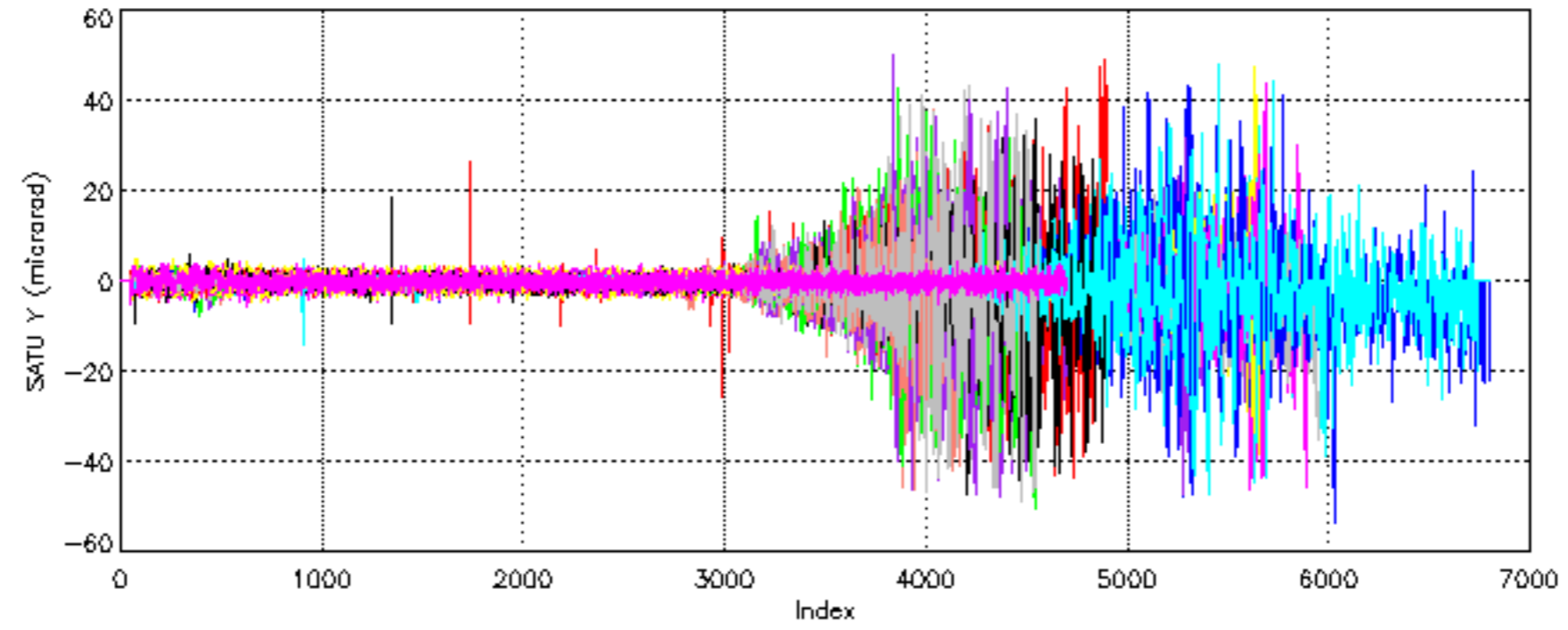
Tangent altitude at which the star is lost

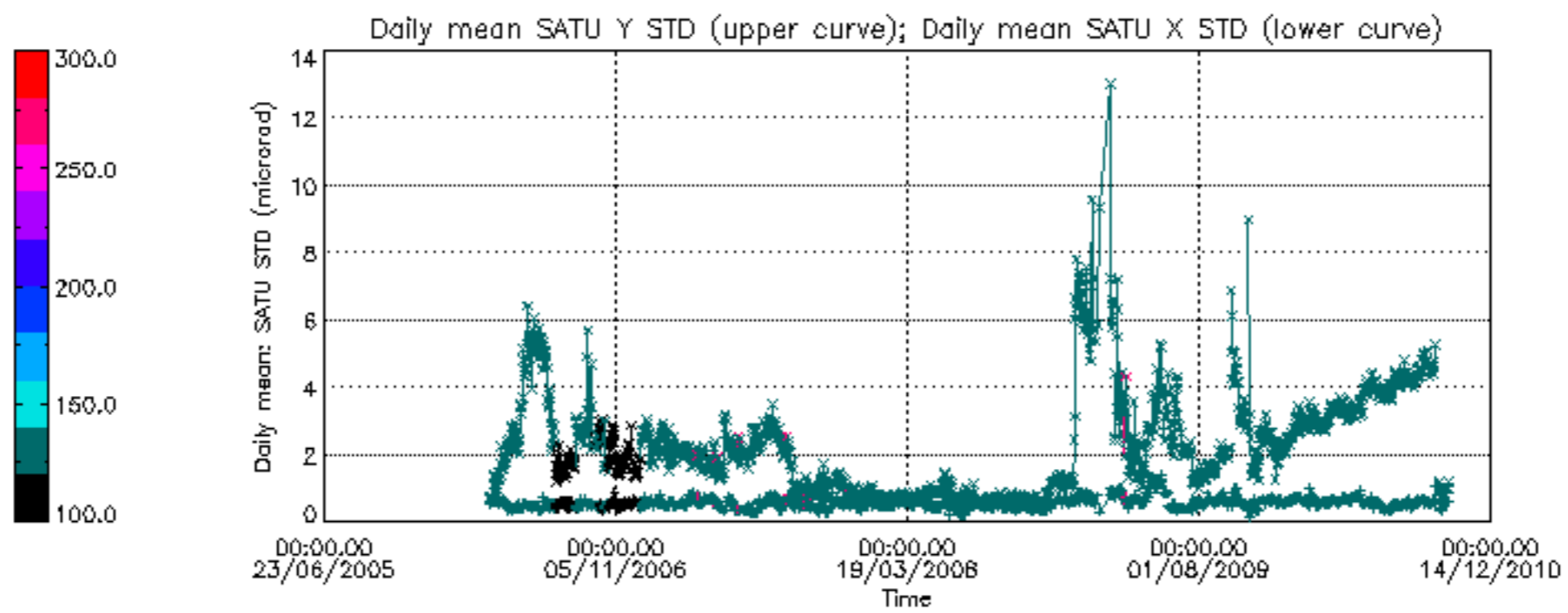


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20101001_003829_000051292093_00245_44888_0965.N1

1; -452.2; 01-OCT-2010 00:38:29; Dark ; 46.0; 132; 15Rho Pup ; 2.80; 6900;occ; 92; 0;44888
 2; -204.7; 01-OCT-2010 00:42:36; Dark ; 54.0; 37; 25Del CMA ; 1.83; 5900;occ; 108; 0;44888
 3; -44.1; 01-OCT-2010 00:45:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44888
 4; 168.4; 01-OCT-2010 00:48:49; Dark ; 53.5; 2; Alp Car ;-0.74; 7000;occ; 107; 0;44889
 5; 300.4; 01-OCT-2010 00:51:01; Dark ; 57.0; 108; Alp Col ; 2.65; 15200;occ; 114; 0;44889
 6; 912.7; 01-OCT-2010 01:01:14; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;44889
 7; 1556.6; 01-OCT-2010 01:11:57; Dark ; 49.0; 52; 16Bet Cet ; 2.04; 4500;occ; 98; 0;44889
 8; 2185.8; 01-OCT-2010 01:22:27; Bright; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;44889
 9; 2435.7; 01-OCT-2010 01:26:37; Bright; 40.0; 58; 21Alp And ; 2.07; 11000;occ; 80; 0;44889
 10; 2662.3; 01-OCT-2010 01:30:23; Bright; 46.0; 53; 43Bet And ; 2.05; 3300;occ; 92; 0;44889
 11; 2951.5; 01-OCT-2010 01:35:12; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;44889
 12; 3032.9; 01-OCT-2010 01:36:34; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;44889
 13; 4512.1; 01-OCT-2010 02:01:13; Bright; 39.0; 24; 66Alp Gem ; 1.58; 10200;occ; 78; 0;44889
 14; 4600.3; 01-OCT-2010 02:02:41; Bright; 76.5; 17; 78Bet Gem ; 1.16; 4500;occ; 153; 0;44889

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20101001_021202_000039472093_00246_44889_0966.N1

1; -875.0; 01-OCT-2010 02:12:02; Dark ; 38.0; 8; 10Alp CMi ; 0.40; 6500;occ; 76; 0;44889
 2; -451.6; 01-OCT-2010 02:19:05; Dark ; 48.5; 132; 15Rho Pup ; 2.80; 6900;occ; 97; 0;44889
 3; -203.5; 01-OCT-2010 02:23:13; Dark ; 54.0; 37; 25Del CMA ; 1.83; 5900;occ; 108; 0;44889
 4; -43.4; 01-OCT-2010 02:25:53; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44889
 5; 169.1; 01-OCT-2010 02:29:26; Dark ; 45.5; 2; Alp Car ;-0.74; 7000;occ; 91; 0;44890
 6; 302.0; 01-OCT-2010 02:31:39; Dark ; 57.5; 108; Alp Col ; 2.65; 15200;occ; 115; 0;44890
 7; 913.7; 01-OCT-2010 02:41:50; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;44890
 8; 1557.0; 01-OCT-2010 02:52:34; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;44890
 9; 2185.6; 01-OCT-2010 03:03:02; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;44890
 10; 2435.4; 01-OCT-2010 03:07:12; Bright; 39.5; 58; 21Alp And ; 2.07; 11000;occ; 79; 0;44890
 11; 2661.7; 01-OCT-2010 03:10:58; Bright; 48.5; 53; 43Bet And ; 2.05; 3300;occ; 97; 0;44890
 12; 2951.6; 01-OCT-2010 03:15:48; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;44890
 13; 3032.4; 01-OCT-2010 03:17:09; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44890

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20101001_034149_000045962093_00247_44890_0967.N1

1; -1523.7; 01-OCT-2010 03:41:49; Bright; 31.0; 24; 66Alp Gem ; 1.58; 10200;occ; 62; 0;44890
 2; -1435.2; 01-OCT-2010 03:43:18; Bright; 73.0; 17; 78Bet Gem ; 1.16; 4500;occ; 146; 0;44890
 3; -874.0; 01-OCT-2010 03:52:39; Dark ; 30.0; 8; 10Alp CMi ; 0.40; 6500;occ; 60; 0;44890
 4; -450.8; 01-OCT-2010 03:59:42; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;44890
 5; -202.1; 01-OCT-2010 04:03:51; Dark ; 65.0; 37; 25Del CMA ; 1.83; 5900;occ; 130; 0;44890
 6; -42.6; 01-OCT-2010 04:06:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44890
 7; 169.8; 01-OCT-2010 04:10:03; Dark ; 44.5; 2; Alp Car ;-0.74; 7000;occ; 89; 0;44891
 8; 303.6; 01-OCT-2010 04:12:16; Dark ; 57.5; 108; Alp Col ; 2.65; 15200;occ; 115; 0;44891
 9; 914.5; 01-OCT-2010 04:22:27; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;44891
 10; 1557.3; 01-OCT-2010 04:33:10; Dark ; 51.0; 52; 16Bet Cet ; 2.04; 4500;occ; 102; 0;44891
 11; 2185.6; 01-OCT-2010 04:43:38; Bright; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;44891
 12; 2435.5; 01-OCT-2010 04:47:48; Bright; 39.0; 58; 21Alp And ; 2.07; 11000;occ; 78; 0;44891
 13; 2661.0; 01-OCT-2010 04:51:34; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;44891
 14; 2951.5; 01-OCT-2010 04:56:24; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44891
 15; 3032.0; 01-OCT-2010 04:57:45; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44891

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20101001_052225_000045952093_00248_44891_0968.N1

1; -1523.5; 01-OCT-2010 05:22:25; Bright; 31.0; 24; 66Alp Gem ; 1.58; 10200;occ; 62; 0;44891
 2; -1435.0; 01-OCT-2010 05:23:54; Bright; 61.5; 17; 78Bet Gem ; 1.16; 4500;occ; 123; 0;44891
 3; -872.8; 01-OCT-2010 05:33:16; Dark ; 30.0; 8; 10Alp CMi ; 0.40; 6500;occ; 60; 0;44891
 4; -449.9; 01-OCT-2010 05:40:19; Dark ; 44.5; 132; 15Rho Pup ; 2.80; 6900;occ; 89; 0;44891
 5; -200.8; 01-OCT-2010 05:44:28; Dark ; 64.5; 37; 25Del CMA ; 1.83; 5900;occ; 129; 0;44891
 6; -41.9; 01-OCT-2010 05:47:07; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44891
 7; 170.7; 01-OCT-2010 05:50:39; Dark ; 58.5; 2; Alp Car ;-0.74; 7000;occ; 117; 0;44892
 8; 305.2; 01-OCT-2010 05:52:54; Dark ; 58.0; 108; Alp Col ; 2.65; 15200;occ; 116; 0;44892
 9; 915.1; 01-OCT-2010 06:03:04; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;44892
 10; 1557.4; 01-OCT-2010 06:13:46; Dark ; 49.5; 52; 16Bet Cet ; 2.04; 4500;occ; 99; 0;44892
 11; 2185.4; 01-OCT-2010 06:24:14; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;44892
 12; 2435.1; 01-OCT-2010 06:28:24; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44892
 13; 2660.4; 01-OCT-2010 06:32:09; Bright; 49.0; 53; 43Bet And ; 2.05; 3300;occ; 98; 0;44892
 14; 2951.2; 01-OCT-2010 06:37:00; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44892
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 5; 171.4; 01-OCT-2010 07:31:16; Dark ; 60.0; 2; Alp Car ;-0.74; 7000;occ; 120; 0;44893
 6; 306.8; 01-OCT-2010 07:33:31; Dark ; 59.0; 108; Alp Col ; 2.65; 15200;occ; 118; 0;44893

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3; 2659.8; 01-OCT-2010 08:12:44; Bright; 39.5; 53; 43Bet And ; 2.05; 3300;occ; 102; 0;44893
4; 2950.9; 01-OCT-2010 08:17:36; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;44893
5; 3031.4; 01-OCT-2010 08:18:56; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;44893
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8; 5837.5; 01-OCT-2010 09:05:42; Dark ; 58.0; 37; 25Del CMA ; 1.83; 5900;occ; 116; 0;44893
9; 5995.5; 01-OCT-2010 09:08:20; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44893
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11; 6344.2; 01-OCT-2010 09:14:09; Dark ; 58.0; 108; Alp Col ; 2.65; 15200;occ; 116; 0;44894
12; 6952.4; 01-OCT-2010 09:24:17; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;44894
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3; 2659.1; 01-OCT-2010 09:53:20; Bright; 51.0; 53; 43Bet And ; 2.05; 3300;occ; 102; 0;44894
4; 2950.6; 01-OCT-2010 09:58:11; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;44894
5; 3031.0; 01-OCT-2010 09:59:32; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;44894
6; 4601.8; 01-OCT-2010 10:25:42; Bright; 61.0; 17; 78Bet Gem ; 1.16; 4500;occ; 122; 0;44894
7; 5588.4; 01-OCT-2010 10:42:09; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;44894
8; 5838.8; 01-OCT-2010 10:46:19; Dark ; 58.0; 37; 25Del CMA ; 1.83; 5900;occ; 116; 0;44894
9; 5996.2; 01-OCT-2010 10:48:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44894
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3; 2432.4; 01-OCT-2010 21:33:44; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44901
4; 2654.2; 01-OCT-2010 21:37:26; Bright; 45.0; 53; 43Bet And ; 2.05; 3300;occ; 90; 0;44901
5; 2948.9; 01-OCT-2010 21:42:21; Bright; 36.5; 74; 11Bet Cas ; 2.27; 6600;occ; 73; 0;44901
6; 3028.2; 01-OCT-2010 21:43:40; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;44901
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3; 93.8; 01-OCT-2010 22:35:22; Dark ; 42.5; 161; Tau Pup ; 2.93; 4500;occ; 85; 0;44902
4; 177.9; 01-OCT-2010 22:36:46; Dark ; 56.5; 2; Alp Car ;-0.74; 7000;occ; 113; 0;44902
5; 320.3; 01-OCT-2010 22:39:08; Dark ; 57.5; 108; Alp Col ; 2.65; 15200;occ; 115; 0;44902
6; 922.1; 01-OCT-2010 22:49:10; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;44902
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8; 2183.4; 01-OCT-2010 23:10:11; Bright; 40.0; 140; 88Gam Peg ; 2.83; 26000;occ; 80; 0;44902
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12; 3027.8; 01-OCT-2010 23:24:16; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44902
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3; 2658.4; 01-OCT-2010 11:33:55; Bright; 48.5; 53; 43Bet And ; 2.05; 3300;occ; 97; 0;44895
4; 2950.3; 01-OCT-2010 11:38:47; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;44895
5; 3030.5; 01-OCT-2010 11:40:07; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44895
6; 4602.0; 01-OCT-2010 12:06:18; Bright; 71.5; 17; 78Bet Gem ; 1.16; 4500;occ; 143; 0;44895
7; 5589.3; 01-OCT-2010 12:22:46; Dark ; 47.5; 132; 15Rho Pup ; 2.80; 6900;occ; 95; 0;44895
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9; 5996.9; 01-OCT-2010 12:29:33; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44895
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12; 6347.2; 01-OCT-2010 12:35:24; Dark ; 59.0; 108; Alp Col ; 2.65; 15200;occ; 118; 0;44895
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4; 2657.7; 01-OCT-2010 13:14:30; Bright; 49.0; 53; 43Bet And ; 2.05; 3300;occ; 98; 0;44896
5; 2950.1; 01-OCT-2010 13:19:22; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;44896
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8; 5590.1; 01-OCT-2010 14:03:22; Dark ; 47.0; 132; 15Rho Pup ; 2.80; 6900;occ; 94; 0;44896
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4; 2657.0; 01-OCT-2010 14:55:05; Bright; 51.0; 53; 43Bet And ; 2.05; 3300;occ; 102; 0;44897
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9; 5842.7; 01-OCT-2010 15:48:11; Dark ; 65.0; 37; 25Del CMA ; 1.83; 5900;occ; 130; 0;44897
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 6; 2945.7; 02-OCT-2010 19:30:05; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;44914
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 6; 344.7; 03-OCT-2010 01:29:07; Dark ; 57.0; 108; Alp Col ; 2.65; 15200;occ; 114; 0;44918
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7; 3196.4; 06-OCT-2010 17:27:46; Bright; 50.5; 160; 23Gam Per ; 2.93; 4700;occ; 101; 0;44970
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9; 5695.4; 09-OCT-2010 09:52:10; Dark ; 49.0; 132; 15Rho Pup ; 2.80; 6900;occ; 98; 0;45008
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13; 6347.1; 13-OCT-2010 18:00:08; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;45070
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 9; 5252.2; 13-OCT-2010 19:22:29; Dark ; 45.0; 48; 30Alp Hya ; 1.98; 4100;occ; 90; 0;45071
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 5; 232.5; 14-OCT-2010 00:41:13; Dark ; 44.5; 161; Tau Pup ; 2.93; 4500;occ; 89; 0;45075
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 5; 108.5; 14-OCT-2010 04:00:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45077
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 7; 315.9; 14-OCT-2010 04:03:48; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;45077
 8; 584.9; 14-OCT-2010 04:08:17; Dark ; 64.0; 108; Alp Col ; 2.65; 15200;occ; 128; 0;45077
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 5; 109.4; 14-OCT-2010 05:40:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45078
 6; 235.2; 14-OCT-2010 05:43:04; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;45078
 7; 316.7; 14-OCT-2010 05:44:25; Dark ; 45.0; 2; Alp Car ;-0.74; 7000;occ; 90; 0;45078
 8; 586.4; 14-OCT-2010 05:48:55; Dark ; 64.0; 108; Alp Col ; 2.65; 15200;occ; 128; 0;45078
 9; 1031.3; 14-OCT-2010 05:56:20; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;45078
 10; 2364.9; 14-OCT-2010 06:18:33; Bright; 48.5; 105; 6Bet Ari ; 2.64; 8900;occ; 97; 0;45078
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 12; 2672.1; 14-OCT-2010 06:23:41; Bright; 46.5; 173; 4Bet Tri ; 3.00; 8900;occ; 93; 0;45078
 13; 2781.4; 14-OCT-2010 06:25:30; Bright; 46.5; 73; 57Gam1And ; 2.26; 13100;occ; 93; 0;45078
 14; 2973.4; 14-OCT-2010 06:28:42; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;45078
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 3; 2560.3; 14-OCT-2010 21:27:12; Bright; 39.0; 53; 43Bet And ; 2.05; 3300;occ; 78; 0;45087
 4; 2665.3; 14-OCT-2010 21:28:57; Bright; 46.5; 173; 4Bet Tri ; 3.00; 8900;occ; 93; 0;45087
 5; 2775.4; 14-OCT-2010 21:30:47; Bright; 48.5; 73; 57Gam1And ; 2.26; 13100;occ; 97; 0;45087
 6; 2971.1; 14-OCT-2010 21:34:03; Bright; 38.5; 76; 27Gam Cas ; 2.30; 30000;occ; 77; 0;45087
 7; 3095.8; 14-OCT-2010 21:36:08; Bright; 44.0; 160; 23Gam Per ; 2.93; 4700;occ; 88; 0;45087
 8; 4630.0; 14-OCT-2010 22:01:42; Bright; 42.5; 166; 17Eps Leo ; 2.98; 6000;occ; 85; 0;45087
 9; 4824.7; 14-OCT-2010 22:04:56; Bright; 39.0; 22; 32Alp Leo ; 1.36; 15200;occ; 78; 0;45087
 10; 5262.6; 14-OCT-2010 22:12:14; Dark ; 1.5; 48; 30Alp Hya ; 1.98; 4100;occ; 3; 0;45087

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 6; 325.5; 15-OCT-2010 00:11:09; Dark ; 46.0; 2; Alp Car ;-0.74; 7000;occ; 92; 0;45089
 7; 602.3; 15-OCT-2010 00:15:46; Dark ; 25.0; 108; Alp Col ; 2.65; 15200;occ; 50; 0;45089
 8; 1037.2; 15-OCT-2010 00:23:01; Dark ; 45.5; 157; The1Eri ; 2.91; 9300;occ; 91; 0;45089
 9; 2358.4; 15-OCT-2010 00:45:02; Bright; 46.5; 105; 6Bet Ari ; 2.64; 8900;occ; 93; 0;45089

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13; 2970.5; 15-OCT-2010 00:55:14; Bright; 39.0; 76; 27Gam Cas ; 2.30; 30000;occ; 78; 0;45089
14; 3094.1; 15-OCT-2010 00:57:17; Bright; 47.5; 160; 23Gam Per ; 2.93; 4700;occ; 95; 0;45089
15; 4630.4; 15-OCT-2010 01:22:54; Bright; 55.5; 166; 17Eps Leo ; 2.98; 6000;occ; 111; 0;45089
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 3; 318.4; 14-OCT-2010 09:05:39; Dark ; 60.0; 2; Alp Car ; -0.74; 7000;occ; 120; 0;45080
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 9; 5257.9; 14-OCT-2010 10:27:58; Dark ; 52.5; 48; 30Alp Hya ; 1.98; 4100;occ; 105; 0;45080
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 6; 122.6; 15-OCT-2010 06:50:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45093
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6; 3090.4; 15-OCT-2010 09:20:13; Bright; 47.0; 160; 23Gam Per ; 2.93; 4700;occ; 94; 0;45094
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8; 4827.7; 15-OCT-2010 13:10:22; Bright; 40.0; 22; 32Alp Leo ; 1.36; 15200;occ; 80; 0;45096
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6; 148.5; 17-OCT-2010 07:27:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45122
7; 352.7; 17-OCT-2010 07:31:21; Dark ; 50.5; 2; Alp Car ; -0.74; 7000;occ; 101; 0;45122
8; 1053.8; 17-OCT-2010 07:43:02; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;45122
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2; 2549.0; 17-OCT-2010 08:07:58; Bright; 39.0; 53; 43Bet And ; 2.05; 3300;occ; 78; 0;45122
3; 2640.4; 17-OCT-2010 08:09:29; Bright; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;45122
4; 2753.3; 17-OCT-2010 08:11:22; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;45122
5; 2982.0; 17-OCT-2010 08:15:11; Bright; 37.5; 110; 37Del Cas ; 2.68; 8900;occ; 75; 0;45122
6; 3068.6; 17-OCT-2010 08:16:37; Bright; 47.5; 160; 23Gam Per ; 2.93; 4700;occ; 95; 0;45122
7; 4639.0; 17-OCT-2010 08:42:48; Bright; 50.0; 166; 17Eps Leo ; 2.98; 6000;occ; 100; 0;45122
8; 4836.7; 17-OCT-2010 08:46:05; Bright; 58.0; 22; 32Alp Leo ; 1.36; 15200;occ; 116; 0;45122
9; 5287.0; 17-OCT-2010 08:53:36; Dark ; 52.5; 48; 30Alp Hya ; 1.98; 4100;occ; 105; 0;45122

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12; 6185.2; 17-OCT-2010 09:08:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45122
13; 6389.3; 17-OCT-2010 09:11:58; Dark ; 62.0; 2; Alp Car ; -0.74; 7000;occ; 124; 0;45122
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 3; 2639.7; 17-OCT-2010 09:50:04; Bright; 46.5; 173; 4Bet Tri ; 3.00; 8900;occ; 93; 0;45123
 4; 2752.8; 17-OCT-2010 09:51:57; Bright; 47.0; 73; 57Gam1And ; 2.26; 13100;occ; 94; 0;45123
 5; 2981.6; 17-OCT-2010 09:55:46; Bright; 38.5; 110; 37Del Cas ; 2.68; 8900;occ; 77; 0;45123
 6; 3068.0; 17-OCT-2010 09:57:12; Bright; 43.5; 160; 23Gam Per ; 2.93; 4700;occ; 87; 0;45123
 7; 4639.1; 17-OCT-2010 10:23:24; Bright; 41.0; 166; 17Eps Leo ; 2.98; 6000;occ; 82; 0;45123
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13; 6390.1; 17-OCT-2010 10:52:35; Dark ; 60.5; 2; Alp Car ; -0.74; 7000;occ; 121; 0;45123
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 8; 4837.5; 17-OCT-2010 12:07:18; Bright; 42.0; 22; 32Alp Leo ; 1.36; 15200;occ; 84; 0;45124
 9; 5288.4; 17-OCT-2010 12:14:49; Dark ; 52.0; 48; 30Alp Hya ; 1.98; 4100;occ; 104; 0;45124
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13; 6390.8; 17-OCT-2010 12:33:11; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;45124
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 3; 2638.3; 17-OCT-2010 13:11:15; Bright; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;45125
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13; 6391.7; 17-OCT-2010 14:13:48; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;45125
14; 7091.8; 17-OCT-2010 14:25:28; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;45125
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 9; 5310.8; 19-OCT-2010 12:52:33; Dark ; 54.0; 48; 30Alp Hya ; 1.98; 4100;occ; 108; 0;45153
 10; 5876.3; 19-OCT-2010 13:01:58; Dark ; 56.0; 132; 15Rho Pup ; 2.80; 6900;occ; 112; 0;45153
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 12; 6213.3; 19-OCT-2010 13:07:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45153
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 3; 2892.8; 19-OCT-2010 13:52:50; Bright; 37.0; 79; 26Bet Per ; 2.31; 13100;occ; 74; 0;45154
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 5; 3060.8; 19-OCT-2010 13:55:38; Bright; 53.0; 35; 33Alp Per ; 1.79; 6250;occ; 106; 0;45154
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 11; 6214.3; 19-OCT-2010 14:48:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45154
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 4; 2973.0; 19-OCT-2010 15:34:47; Bright; 39.0; 110; 37Del Cas ; 2.68; 8900;occ; 78; 0;45155
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 6; 4647.9; 19-OCT-2010 16:02:41; Bright; 44.0; 166; 17Eps Leo ; 2.98; 6000;occ; 88; 0;45155
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 8; 5312.5; 19-OCT-2010 16:13:46; Dark ; 54.5; 48; 30Alp Hya ; 1.98; 4100;occ; 109; 0;45155
 9; 5879.2; 19-OCT-2010 16:23:13; Dark ; 56.0; 132; 15Rho Pup ; 2.80; 6900;occ; 112; 0;45155
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 6; 2972.5; 19-OCT-2010 17:15:22; Bright; 38.5; 110; 37Del Cas ; 2.68; 8900;occ; 77; 0;45156
 7; 3058.9; 19-OCT-2010 17:16:48; Bright; 53.5; 35; 33Alp Per ; 1.79; 6250;occ; 107; 0;45156
 8; 4648.3; 19-OCT-2010 17:43:18; Bright; 60.0; 166; 17Eps Leo ; 2.98; 6000;occ; 120; 0;45156
 9; 4849.5; 19-OCT-2010 17:46:39; Bright; 60.0; 22; 32Alp Leo ; 1.36; 15200;occ; 120; 0;45156
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 13; 6216.2; 19-OCT-2010 18:09:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45156
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 3; 2539.5; 19-OCT-2010 18:48:45; Bright; 39.5; 53; 43Bet And ; 2.05; 3300;occ; 79; 0;45157
 4; 2733.4; 19-OCT-2010 18:51:59; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;45157
 5; 2889.9; 19-OCT-2010 18:54:35; Bright; 42.0; 79; 26Bet Per ; 2.31; 13100;occ; 84; 0;45157
 6; 2972.2; 19-OCT-2010 18:55:58; Bright; 39.0; 110; 37Del Cas ; 2.68; 8900;occ; 78; 0;45157
 7; 3058.0; 19-OCT-2010 18:57:24; Bright; 50.0; 35; 33Alp Per ; 1.79; 6250;occ; 100; 0;45157
 8; 4648.4; 19-OCT-2010 19:23:54; Bright; 45.0; 166; 17Eps Leo ; 2.98; 6000;occ; 90; 0;45157
 9; 4849.8; 19-OCT-2010 19:27:15; Bright; 40.5; 22; 32Alp Leo ; 1.36; 15200;occ; 81; 0;45157

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3; 44.9; 20-OCT-2010 00:49:34; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;45161
4; 183.9; 20-OCT-2010 00:51:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45161
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6; 1072.1; 20-OCT-2010 01:06:41; Dark ; 42.0; 157; The1Eri ; 2.91; 9300;occ; 84; 0;45161
7; 2322.7; 20-OCT-2010 01:27:32; Bright; 45.0; 105; 6Bet Ari ; 2.64; 8900;occ; 90; 0;45161
8; 2538.1; 20-OCT-2010 01:31:07; Bright; 42.5; 53; 43Bet And ; 2.05; 3300;occ; 85; 0;45161
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5; 184.8; 20-OCT-2010 02:32:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45162
6; 385.1; 20-OCT-2010 02:35:50; Dark ; 47.5; 2; Alp Car ; -0.74; 7000;occ; 95; 0;45162
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8; 2322.2; 20-OCT-2010 03:08:07; Bright; 45.0; 105; 6Bet Ari ; 2.64; 8900;occ; 90; 0;45162
9; 2537.8; 20-OCT-2010 03:11:43; Bright; 39.0; 53; 43Bet And ; 2.05; 3300;occ; 78; 0;45162
10; 2730.7; 20-OCT-2010 03:14:56; Bright; 43.5; 73; 57Gam1And ; 2.26; 13100;occ; 87; 0;45162
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4; 2725.0; 20-OCT-2010 21:41:25; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;45173
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 4; 2863.1; 21-OCT-2010 16:10:18; Bright; 53.0; 79; 26Bet Per ; 2.31; 13100;occ; 106; 0;45184
 5; 3024.1; 21-OCT-2010 16:12:59; Bright; 45.5; 160; 23Gam Per ; 2.93; 4700;occ; 91; 0;45184
 6; 4860.6; 21-OCT-2010 16:43:36; Bright; 42.5; 22; 32Alp Leo ; 1.36; 15200;occ; 85; 0;45184
 7; 5336.7; 21-OCT-2010 16:51:32; Dark ; 58.5; 48; 30Alp Hya ; 1.98; 4100;occ; 117; 0;45184
 8; 5922.5; 21-OCT-2010 17:01:17; Dark ; 58.0; 132; 15Rho Pup ; 2.80; 6900;occ; 116; 0;45184
 9; 6066.6; 21-OCT-2010 17:03:41; Dark ; 46.0; 70; Zet Pup ; 2.25; 39000;occ; 92; 0;45184
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 3; 2532.8; 21-OCT-2010 17:45:24; Bright; 41.0; 53; 43Bet And ; 2.05; 3300;occ; 82; 0;45185
 4; 2719.0; 21-OCT-2010 17:48:30; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;45185
 5; 2862.1; 21-OCT-2010 17:50:53; Bright; 54.0; 79; 26Bet Per ; 2.31; 13100;occ; 108; 0;45185
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 7; 4861.1; 21-OCT-2010 18:24:12; Bright; 40.5; 22; 32Alp Leo ; 1.36; 15200;occ; 81; 0;45185
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