

GOMOS Daily Report 06-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	09OCT2010 04:46:09
Data source version	GOMOS/5.01
Start time of products	06OCT2010 00:04:33
Stop time of products	06OCT2010 23:57:10
Store outputs in DB	Yes
Nb of level 1b prods	89
Nb of prods with errors	0

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

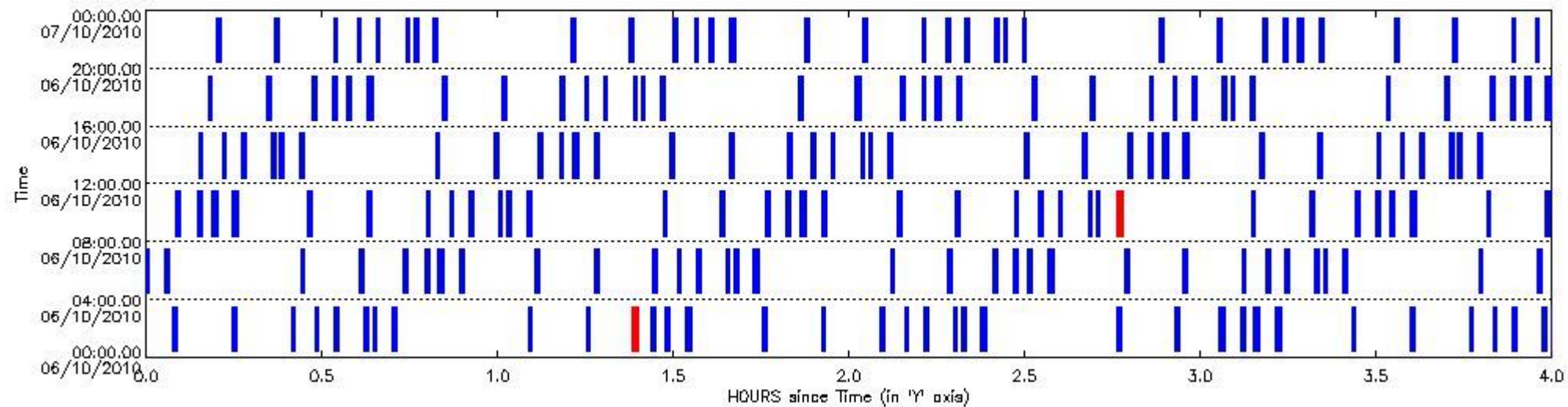
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
06-OCT-2010 01:22:50	15RhoPup	132	44960
06-OCT-2010 10:45:39	23GamPer	160	44966

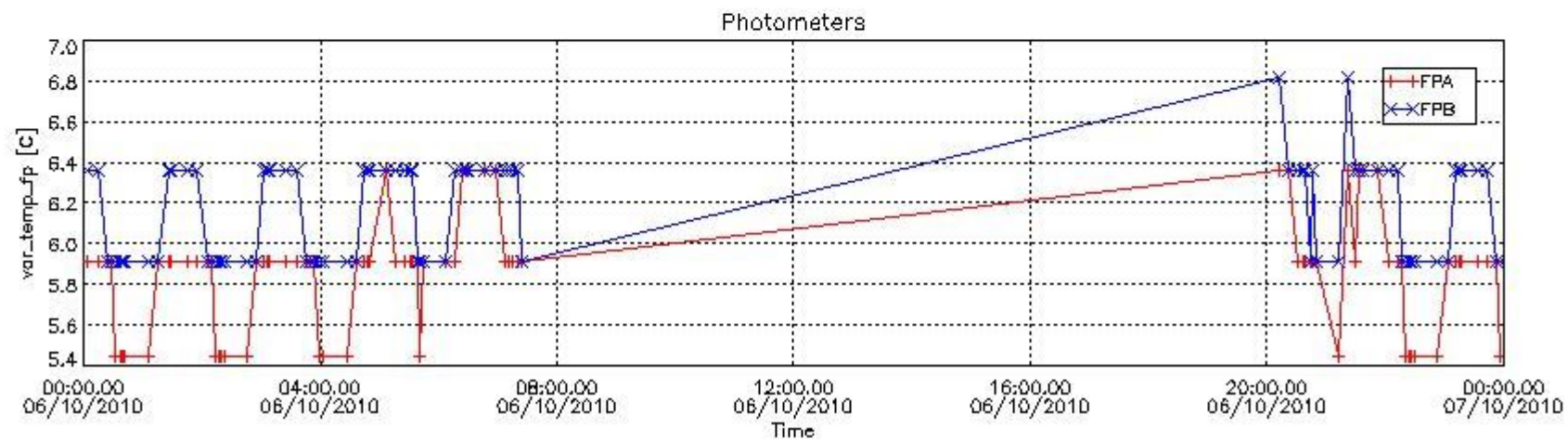
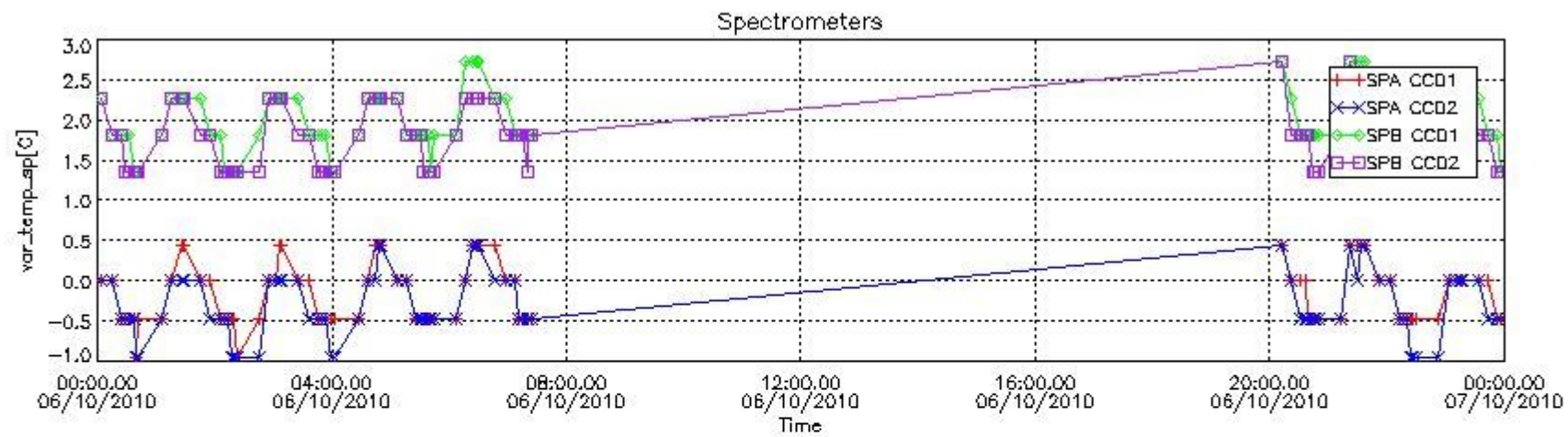
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20101006_000433_000000492093_00317_44960_9154.N1	06-OCT-2010 00:04:33	Straylight	49.000	157	The1Eri	2.9060	9300.0	98	44960	No
2	GOM_TRA_1PNPDE20101006_001438_000000492093_00317_44960_9155.N1	06-OCT-2010 00:14:38	Straylight	48.500	52	16Bet Cet	2.0370	4500.0	97	44960	No
3	GOM_TRA_1PNPDE20101006_002445_000000392093_00317_44960_9156.N1	06-OCT-2010 00:24:45	Bright	38.500	140	88Gam Peg	2.8340	26000.	77	44960	No
4	GOM_TRA_1PNPDE20101006_002849_000000402093_00317_44960_9157.N1	06-OCT-2010 00:28:49	Bright	39.500	58	21Alp And	2.0730	11000.	79	44960	No
5	GOM_TRA_1PNPDE20101006_003208_000000462093_00317_44960_9158.N1	06-OCT-2010 00:32:08	Bright	46.000	53	43Bet And	2.0480	3300.0	92	44960	No
6	GOM_TRA_1PNPDE20101006_003713_000000412093_00317_44960_9159.N1	06-OCT-2010 00:37:13	Bright	40.500	68	18Alp Cas	2.2250	4500.0	81	44960	No
7	GOM_TRA_1PNPDE20101006_003838_000000402093_00317_44960_9160.N1	06-OCT-2010 00:38:38	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	44960	No
8	GOM_TRA_1PNPDE20101006_004156_000000472093_00317_44960_9161.N1	06-OCT-2010 00:41:56	Bright	47.000	160	23Gam Per	2.9300	4700.0	94	44960	No
9	GOM_TRA_1PNPDE20101006_010512_000000362093_00317_44960_9162.N1	06-OCT-2010 01:05:12	Bright	36.000	166	17Eps Leo	2.9800	6000.0	72	44960	No

10	GOM_TRA_1PNPDE20101006_011502_000000472093_00317_44960_9163.N1	06-OCT-2010 01:15:02	Twilight	47.000	48	30Alp Hya	1.9770	4100.0	94	44960	No
11	GOM_TRA_1PNPDE20101006_012615_000000412093_00317_44960_9187.N1	06-OCT-2010 01:26:15	Dark	41.000	70	Zet Pup	2.2460	39000.	82	44960	No
12	GOM_TRA_1PNPDE20101006_012831_000000572093_00317_44960_9188.N1	06-OCT-2010 01:28:31	Dark	57.000	23	21Eps CMa	1.5020	26000.	114	44960	No
13	GOM_TRA_1PNPDE20101006_014509_000000502093_00318_44961_9189.N1	06-OCT-2010 01:45:09	Straylight	49.500	157	The1Eri	2.9060	9300.0	99	44961	No
14	GOM_TRA_1PNPDE20101006_015514_000000472093_00318_44961_9190.N1	06-OCT-2010 01:55:14	Straylight	46.500	52	16Bet Cet	2.0370	4500.0	93	44961	No
15	GOM_TRA_1PNPDE20101006_020520_000000392093_00318_44961_9191.N1	06-OCT-2010 02:05:20	Bright	38.500	140	88Gam Peg	2.8340	26000.	77	44961	No
16	GOM_TRA_1PNPDE20101006_020925_000000392093_00318_44961_9192.N1	06-OCT-2010 02:09:25	Bright	38.500	58	21Alp And	2.0730	11000.	77	44961	No
17	GOM_TRA_1PNPDE20101006_021244_000000482093_00318_44961_9193.N1	06-OCT-2010 02:12:44	Bright	47.500	53	43Bet And	2.0480	3300.0	95	44961	No
18	GOM_TRA_1PNPDE20101006_021748_000000402093_00318_44961_9194.N1	06-OCT-2010 02:17:48	Bright	40.000	68	18Alp Cas	2.2250	4500.0	80	44961	No
19	GOM_TRA_1PNPDE20101006_021913_000000412093_00318_44961_9195.N1	06-OCT-2010 02:19:13	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	44961	No
20	GOM_TRA_1PNPDE20101006_022231_000000502093_00318_44961_9196.N1	06-OCT-2010 02:22:31	Bright	50.000	160	23Gam Per	2.9300	4700.0	100	44961	No
21	GOM_TRA_1PNPDE20101006_024548_000000362093_00318_44961_9197.N1	06-OCT-2010 02:45:48	Bright	36.000	166	17Eps Leo	2.9800	6000.0	72	44961	No
22	GOM_TRA_1PNPDE20101006_025538_000000492093_00318_44961_9198.N1	06-OCT-2010 02:55:38	Twilight	49.000	48	30Alp Hya	1.9770	4100.0	98	44961	No
23	GOM_TRA_1PNPDE20101006_030315_000000512093_00318_44961_9199.N1	06-OCT-2010 03:03:15	Dark	50.500	132	15Rho Pup	2.8030	6900.0	101	44961	No
24	GOM_TRA_1PNPDE20101006_030652_000000432093_00318_44961_9200.N1	06-OCT-2010 03:06:52	Dark	42.500	70	Zet Pup	2.2460	39000.	85	44961	No
25	GOM_TRA_1PNPDE20101006_030909_000000562093_00318_44961_9201.N1	06-OCT-2010 03:09:09	Dark	56.000	23	21Eps CMa	1.5020	26000.	112	44961	No
26	GOM_TRA_1PNPDE20101006_032546_000000482093_00319_44962_9202.N1	06-OCT-2010 03:25:46	Straylight	47.500	157	The1Eri	2.9060	9300.0	95	44962	No
27	GOM_TRA_1PNPDE20101006_033550_000000462093_00319_44962_9203.N1	06-OCT-2010 03:35:50	Straylight	45.500	52	16Bet Cet	2.0370	4500.0	91	44962	No
28	GOM_TRA_1PNPDE20101006_034556_000000392093_00319_44962_9204.N1	06-OCT-2010 03:45:56	Bright	39.000	140	88Gam Peg	2.8340	26000.	78	44962	No
29	GOM_TRA_1PNPDE20101006_035001_000000392093_00319_44962_9205.N1	06-OCT-2010 03:50:01	Bright	38.500	58	21Alp And	2.0730	11000.	77	44962	No
30	GOM_TRA_1PNPDE20101006_035319_000000432093_00319_44962_9206.N1	06-OCT-2010 03:53:19	Bright	42.500	53	43Bet And	2.0480	3300.0	85	44962	No
31	GOM_TRA_1PNPDE20101006_035824_000000412093_00319_44962_9225.N1	06-OCT-2010 03:58:24	Bright	40.500	68	18Alp Cas	2.2250	4500.0	81	44962	No
32	GOM_TRA_1PNPDE20101006_035949_000000402093_00319_44962_9226.N1	06-OCT-2010 03:59:49	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	44962	No
33	GOM_TRA_1PNPDE20101006_040306_000000532093_00319_44962_9227.N1	06-OCT-2010 04:03:06	Bright	52.500	160	23Gam Per	2.9300	4700.0	105	44962	No
34	GOM_TRA_1PNPDE20101006_042625_000000372093_00319_44962_9228.N1	06-OCT-2010 04:26:25	Bright	37.000	166	17Eps Leo	2.9800	6000.0	74	44962	No
35	GOM_TRA_1PNPDE20101006_043614_000000532093_00319_44962_9229.N1	06-OCT-2010 04:36:14	Twilight	52.500	48	30Alp Hya	1.9770	4100.0	105	44962	No
36	GOM_TRA_1PNPDE20101006_044352_000000502093_00319_44962_9230.N1	06-OCT-2010 04:43:52	Dark	49.500	132	15Rho Pup	2.8030	6900.0	99	44962	No
37	GOM_TRA_1PNPDE20101006_044729_000000482093_00319_44962_9231.N1	06-OCT-2010 04:47:29	Dark	47.500	70	Zet Pup	2.2460	39000.	95	44962	No
38	GOM_TRA_1PNPDE20101006_044946_000000572093_00319_44962_9232.N1	06-OCT-2010 04:49:46	Dark	57.000	23	21Eps CMa	1.5020	26000.	114	44962	No
39	GOM_TRA_1PNPDE20101006_050623_000000492093_00320_44963_9233.N1	06-OCT-2010 05:06:23	Straylight	49.000	157	The1Eri	2.9060	9300.0	98	44963	No
40	GOM_TRA_1PNPDE20101006_051626_000000472093_00320_44963_9234.N1	06-OCT-2010 05:16:26	Straylight	46.500	52	16Bet Cet	2.0370	4500.0	93	44963	No
41	GOM_TRA_1PNPDE20101006_052632_000000392093_00320_44963_9235.N1	06-OCT-2010 05:26:32	Bright	39.000	140	88Gam Peg	2.8340	26000.	78	44963	No
42	GOM_TRA_1PNPDE20101006_053037_000000392093_00320_44963_9236.N1	06-OCT-2010 05:30:37	Bright	39.000	58	21Alp And	2.0730	11000.	78	44963	No
43	GOM_TRA_1PNPDE20101006_053355_000000432093_00320_44963_9237.N1	06-OCT-2010 05:33:55	Bright	43.000	53	43Bet And	2.0480	3300.0	86	44963	No
44	GOM_TRA_1PNPDE20101006_053900_000000402093_00320_44963_9238.N1	06-OCT-2010 05:39:00	Bright	40.000	68	18Alp Cas	2.2250	4500.0	80	44963	No
45	GOM_TRA_1PNPDE20101006_054025_000000402093_00320_44963_9239.N1	06-OCT-2010 05:40:25	Bright	39.500	76	27Gam Cas	2.3000	30000.	79	44963	No
46	GOM_TRA_1PNPDE20101006_054341_000000512093_00320_44963_9240.N1	06-OCT-2010 05:43:41	Bright	50.500	160	23Gam Per	2.9300	4700.0	101	44963	No
47	GOM_TRA_1PNPDE20101006_060701_000000372093_00320_44963_9267.N1	06-OCT-2010 06:07:01	Bright	36.500	166	17Eps Leo	2.9800	6000.0	73	44963	No
48	GOM_TRA_1PNPDE20101006_061651_000000452093_00320_44963_9268.N1	06-OCT-2010 06:16:51	Twilight	45.000	48	30Alp Hya	1.9770	4100.0	90	44963	No
49	GOM_TRA_1PNPDE20101006_062429_000000492093_00320_44963_9269.N1	06-OCT-2010 06:24:29	Dark	48.500	132	15Rho Pup	2.8030	6900.0	97	44963	No
50	GOM_TRA_1PNPDE20101006_062806_000000432093_00320_44963_9270.N1	06-OCT-2010 06:28:06	Dark	42.500	70	Zet Pup	2.2460	39000.	85	44963	No
51	GOM_TRA_1PNPDE20101006_063023_000000582093_00320_44963_9271.N1	06-OCT-2010 06:30:23	Dark	58.000	23	21Eps CMa	1.5020	26000.	116	44963	No
52	GOM_TRA_1PNPDE20101006_064659_000000482093_00321_44964_9272.N1	06-OCT-2010 06:46:59	Straylight	47.500	157	The1Eri	2.9060	9300.0	95	44964	No
53	GOM_TRA_1PNPDE20101006_065702_000000492093_00321_44964_9273.N1	06-OCT-2010 06:57:02	Straylight	48.500	52	16Bet Cet	2.0370	4500.0	97	44964	No
54	GOM_TRA_1PNPDE20101006_070708_000000392093_00321_44964_9274.N1	06-OCT-2010 07:07:08	Bright	39.000	140	88Gam Peg	2.8340	26000.	78	44964	No
55	GOM_TRA_1PNPDE20101006_071113_000000402093_00321_44964_9275.N1	06-OCT-2010 07:11:13	Bright	40.000	58	21Alp And	2.0730	11000.	80	44964	No
56	GOM_TRA_1PNPDE20101006_071430_000000442093_00321_44964_9276.N1	06-OCT-2010 07:14:30	Bright	44.000	53	43Bet And	2.0480	3300.0	88	44964	No
57	GOM_TRA_1PNPDE20101006_071935_000000412093_00321_44964_9277.N1	06-OCT-2010 07:19:35	Bright	40.500	68	18Alp Cas	2.2250	4500.0	81	44964	No
58	GOM_TRA_1PNPDE20101006_072100_000000402093_00321_44964_9278.N1	06-OCT-2010 07:21:00	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	44964	No
59	GOM_TRA_1PNPDE20101006_072416_000000492093_00321_44964_9279.N1	06-OCT-2010 07:24:16	Bright	48.500	160	23Gam Per	2.9300	4700.0	97	44964	No
60	GOM_TRA_1PNPDE20101006_201152_000000482093_00329_44972_9383.N1	06-OCT-2010 20:11:52	Straylight	47.500	157	The1Eri	2.9060	9300.0	95	44972	No
61	GOM_TRA_1PNPDE20101006_202150_000000462093_00329_44972_9384.N1	06-OCT-2010 20:21:50	Straylight	46.000	52	16Bet Cet	2.0370	4500.0	92	44972	No
62	GOM_TRA_1PNPDE20101006_203155_000000382093_00329_44972_9385.N1	06-OCT-2010 20:31:55	Bright	37.500	140	88Gam Peg	2.8340	26000.	75	44972	No
63	GOM_TRA_1PNPDE20101006_203559_000000392093_00329_44972_9386.N1	06-OCT-2010 20:35:59	Bright	39.000	58	21Alp And	2.0730	11000.	78	44972	No
64	GOM_TRA_1PNPDE20101006_203913_000000432093_00329_44972_9387.N1	06-OCT-2010 20:39:13	Bright	42.500	53	43Bet And	2.0480	3300.0	85	44972	No
65	GOM_TRA_1PNPDE20101006_204420_000000412093_00329_44972_9388.N1	06-OCT-2010 20:44:20	Bright	40.500	68	18Alp Cas	2.2250	4500.0	81	44972	No
66	GOM_TRA_1PNPDE20101006_204545_000000412093_00329_44972_9389.N1	06-OCT-2010 20:45:45	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	44972	No
67	GOM_TRA_1PNPDE20101006_204856_000000512093_00329_44972_9390.N1	06-OCT-2010 20:48:56	Bright	50.500	160	23Gam Per	2.9300	4700.0	101	44972	No
68	GOM_TRA_1PNPDE20101006_211226_000000562093_00329_44972_9391.N1	06-OCT-2010 21:12:26	Bright	56.000	166	17Eps Leo	2.9800	6000.0	112	44972	No

69	GOM_TRA_1PNPDE20101006_212219_000000562093_00329_44972_9396.N1	06-OCT-2010 21:22:19	Twilight	56.000	48	30Alp Hya	1.9770	4100.0	112	44972	No
70	GOM_TRA_1PNPDE20101006_213001_000000472093_00329_44972_9397.N1	06-OCT-2010 21:30:01	Dark	46.500	132	15Rho Pup	2.8030	6900.0	93	44972	No
71	GOM_TRA_1PNPDE20101006_213336_000000442093_00329_44972_9398.N1	06-OCT-2010 21:33:36	Dark	43.500	70	Zet Pup	2.2460	39000.	87	44972	No
72	GOM_TRA_1PNPDE20101006_213600_000000572093_00329_44972_9399.N1	06-OCT-2010 21:36:00	Dark	56.500	23	21Eps CMa	1.5020	26000.	113	44972	No
73	GOM_TRA_1PNPDE20101006_215228_000000472093_00330_44973_9400.N1	06-OCT-2010 21:52:28	Straylight	47.000	157	The1Eri	2.9060	9300.0	94	44973	No
74	GOM_TRA_1PNPDE20101006_220226_000000472093_00330_44973_9401.N1	06-OCT-2010 22:02:26	Straylight	47.000	52	16Bet Cet	2.0370	4500.0	94	44973	No
75	GOM_TRA_1PNPDE20101006_221230_000000392093_00330_44973_9402.N1	06-OCT-2010 22:12:30	Bright	39.000	140	88Gam Peg	2.8340	26000.	78	44973	No
76	GOM_TRA_1PNPDE20101006_221634_000000392093_00330_44973_9403.N1	06-OCT-2010 22:16:34	Bright	38.500	58	21Alp And	2.0730	11000.	77	44973	No
77	GOM_TRA_1PNPDE20101006_221948_000000432093_00330_44973_9404.N1	06-OCT-2010 22:19:48	Bright	43.000	53	43Bet And	2.0480	3300.0	86	44973	No
78	GOM_TRA_1PNPDE20101006_222456_000000422093_00330_44973_9405.N1	06-OCT-2010 22:24:56	Bright	41.500	68	18Alp Cas	2.2250	4500.0	83	44973	No
79	GOM_TRA_1PNPDE20101006_222621_000000402093_00330_44973_9406.N1	06-OCT-2010 22:26:21	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	44973	No
80	GOM_TRA_1PNPDE20101006_222931_000000472093_00330_44973_9407.N1	06-OCT-2010 22:29:31	Bright	46.500	160	23Gam Per	2.9300	4700.0	93	44973	No
81	GOM_TRA_1PNPDE20101006_225302_000000422093_00330_44973_9408.N1	06-OCT-2010 22:53:02	Bright	41.500	166	17Eps Leo	2.9800	6000.0	83	44973	No
82	GOM_TRA_1PNPDE20101006_230255_000000472093_00330_44973_9409.N1	06-OCT-2010 23:02:55	Twilight	46.500	48	30Alp Hya	1.9770	4100.0	93	44973	No
83	GOM_TRA_1PNPDE20101006_231037_000000492093_00330_44973_9413.N1	06-OCT-2010 23:10:37	Dark	49.000	132	15Rho Pup	2.8030	6900.0	98	44973	No
84	GOM_TRA_1PNPDE20101006_231412_000000412093_00330_44973_9414.N1	06-OCT-2010 23:14:12	Dark	41.000	70	Zet Pup	2.2460	39000.	82	44973	No
85	GOM_TRA_1PNPDE20101006_231637_000000572093_00330_44973_9415.N1	06-OCT-2010 23:16:37	Dark	56.500	23	21Eps CMa	1.5020	26000.	113	44973	No
86	GOM_TRA_1PNPDE20101006_233305_000000492093_00331_44974_9416.N1	06-OCT-2010 23:33:05	Straylight	48.500	157	The1Eri	2.9060	9300.0	97	44974	No
87	GOM_TRA_1PNPDE20101006_234302_000000482093_00331_44974_9417.N1	06-OCT-2010 23:43:02	Straylight	47.500	52	16Bet Cet	2.0370	4500.0	95	44974	No
88	GOM_TRA_1PNPDE20101006_235306_000000392093_00331_44974_9418.N1	06-OCT-2010 23:53:06	Bright	38.500	140	88Gam Peg	2.8340	26000.	77	44974	No
89	GOM_TRA_1PNPDE20101006_235710_000000382093_00331_44974_9419.N1	06-OCT-2010 23:57:10	Bright	38.000	58	21Alp And	2.0730	11000.	76	44974	No

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



4. Overview of dark signal processing per product

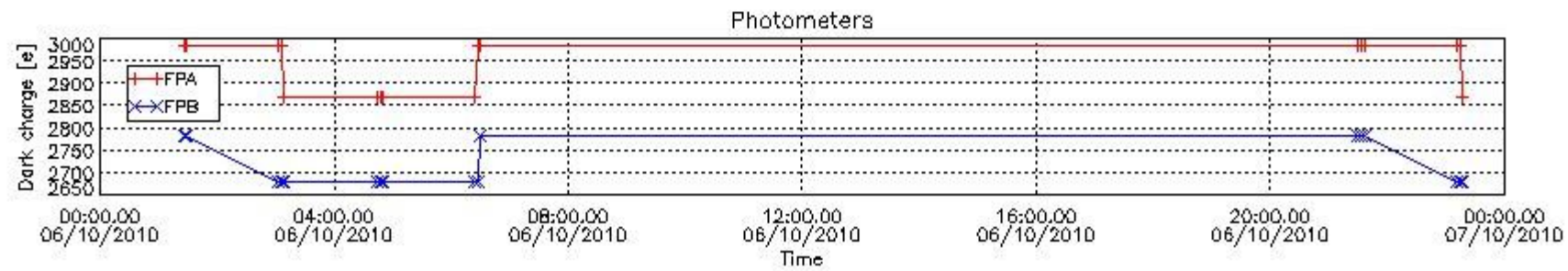
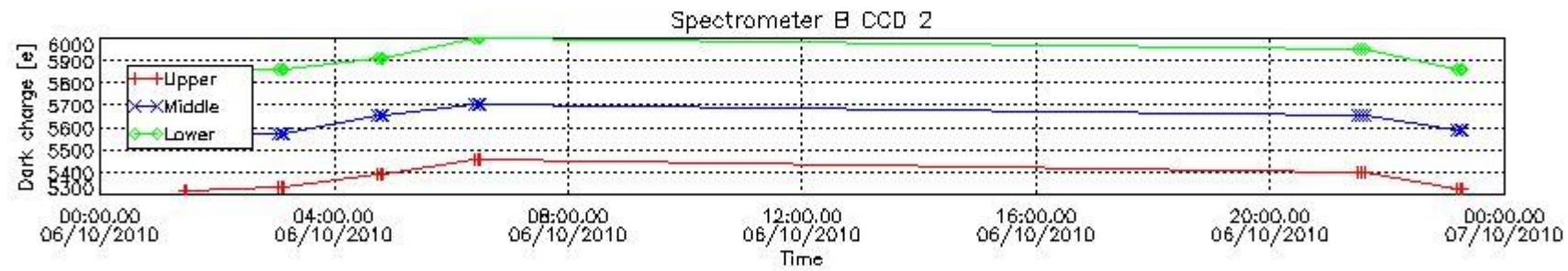
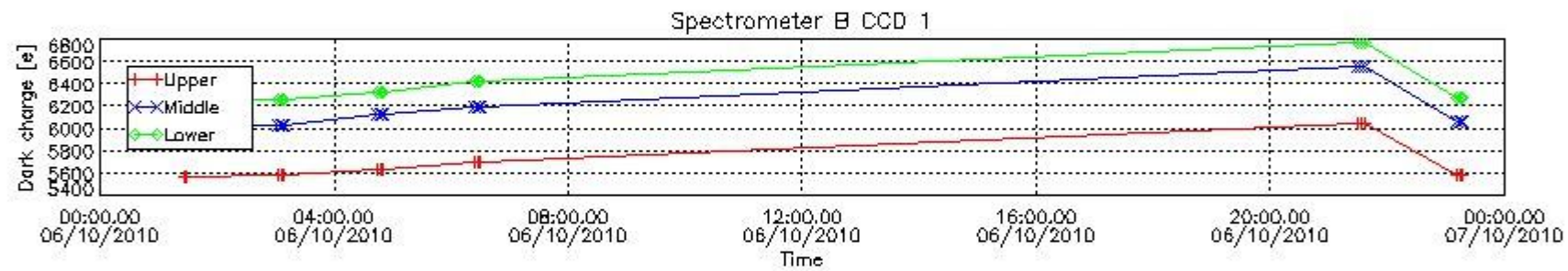
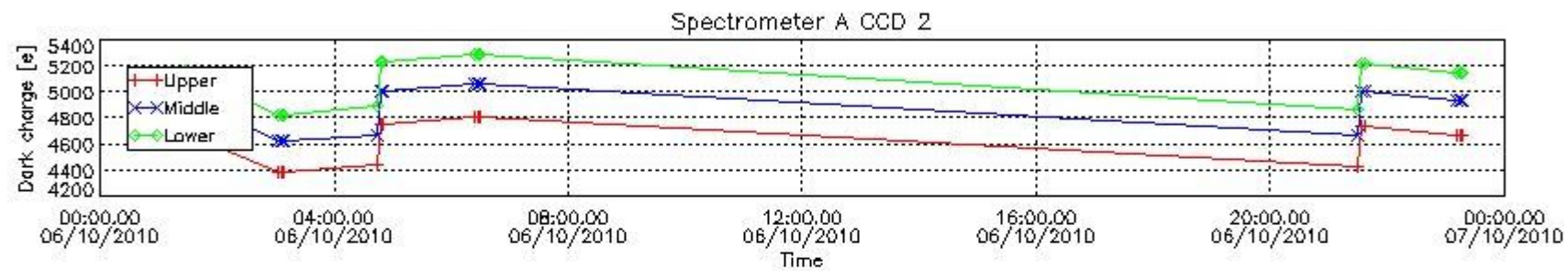
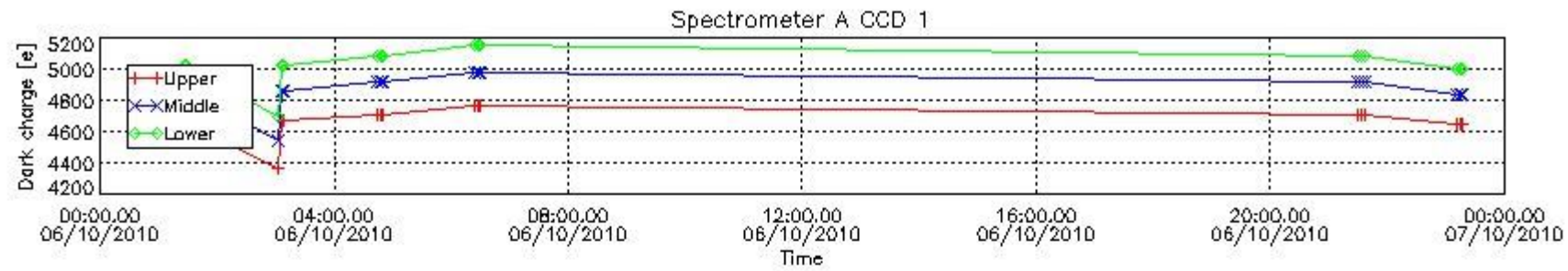
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20101006_201152_000000482093_00329_44972_9383.N1	DC map with no T dep.
GOM_TRA_1PNPDE20101006_202150_000000462093_00329_44972_9384.N1	DC map used
GOM_TRA_1PNPDE20101006_203155_000000382093_00329_44972_9385.N1	DC map used
GOM_TRA_1PNPDE20101006_203559_000000392093_00329_44972_9386.N1	DC map used
GOM_TRA_1PNPDE20101006_203913_000000432093_00329_44972_9387.N1	DC map used
GOM_TRA_1PNPDE20101006_204420_000000412093_00329_44972_9388.N1	DC map used
GOM_TRA_1PNPDE20101006_204545_000000412093_00329_44972_9389.N1	DC map used
GOM_TRA_1PNPDE20101006_204856_000000512093_00329_44972_9390.N1	DC map used
GOM_TRA_1PNPDE20101006_211226_000000562093_00329_44972_9391.N1	DC map used

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



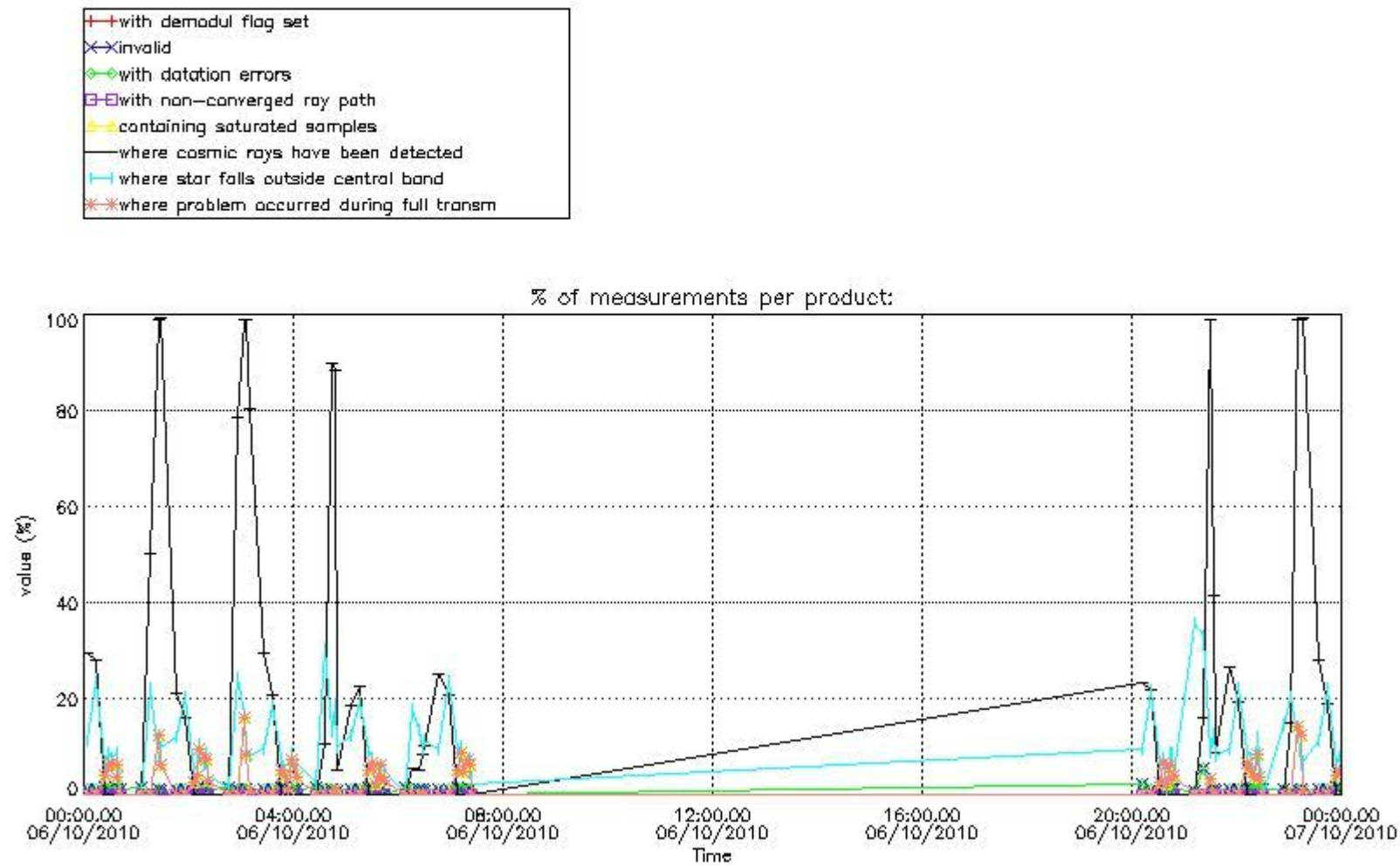
5. Demodulation flag and quality information monitoring

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.

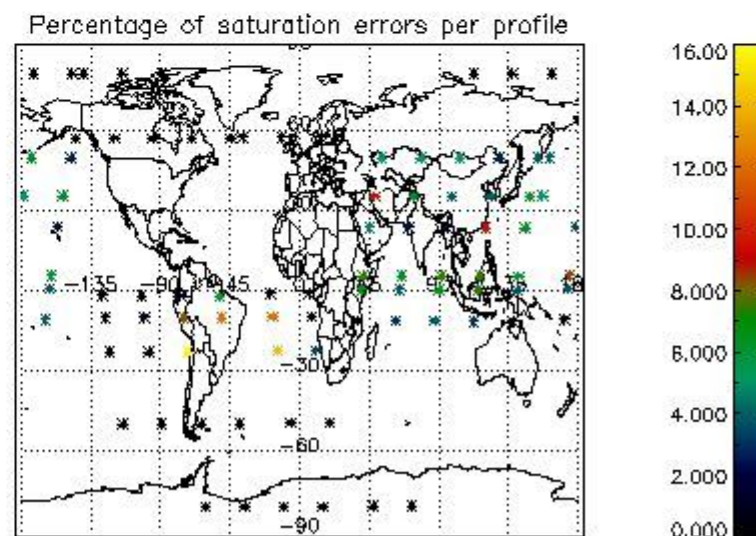
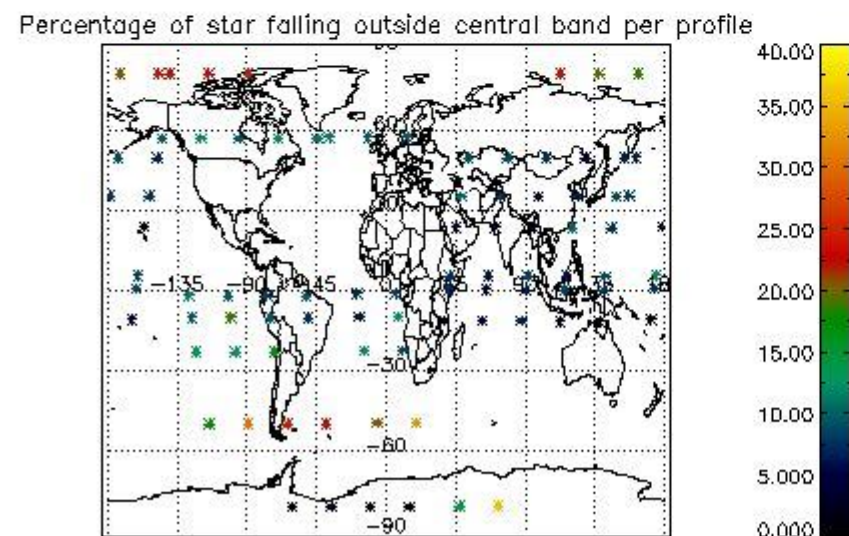
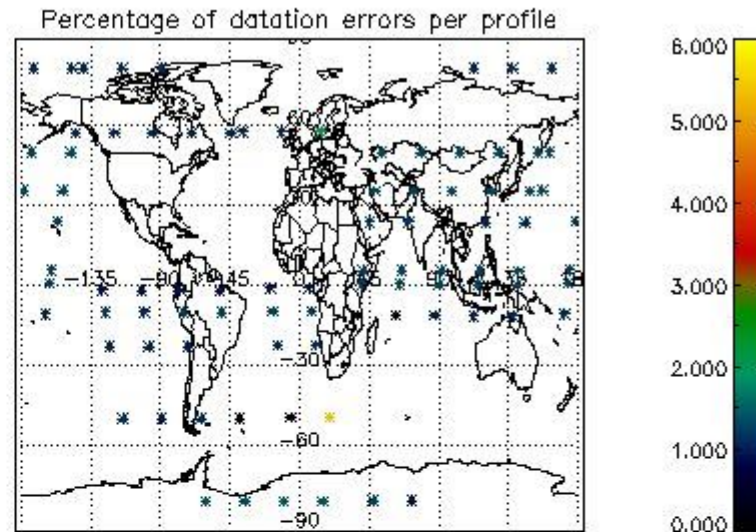
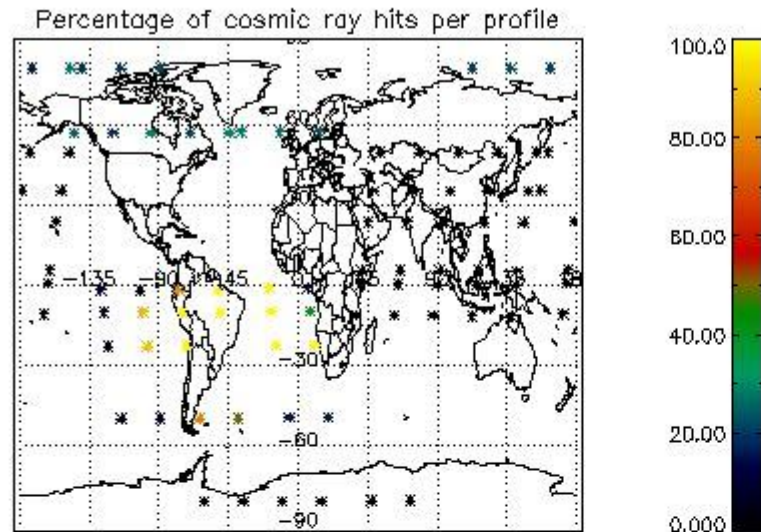
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	41.5730 %
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)



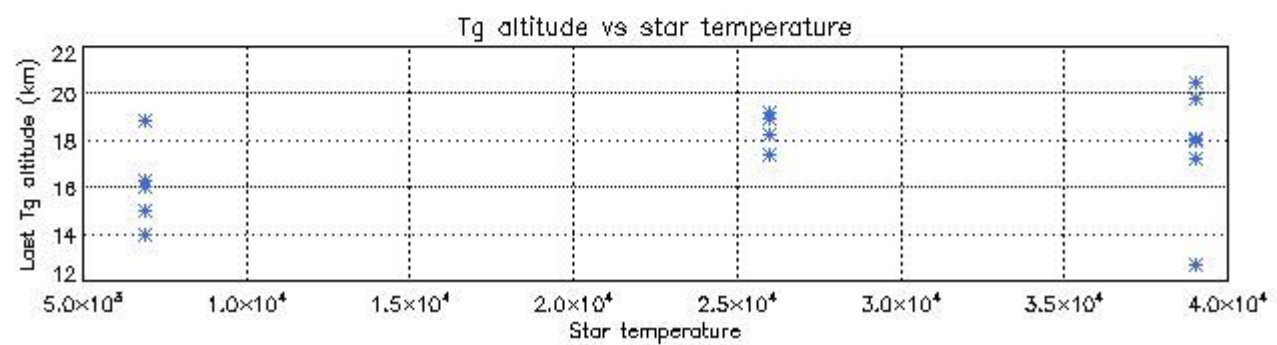
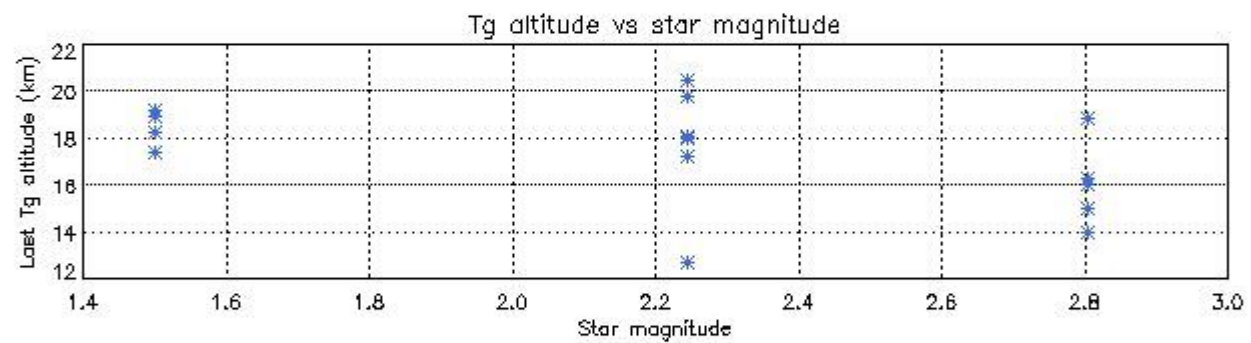
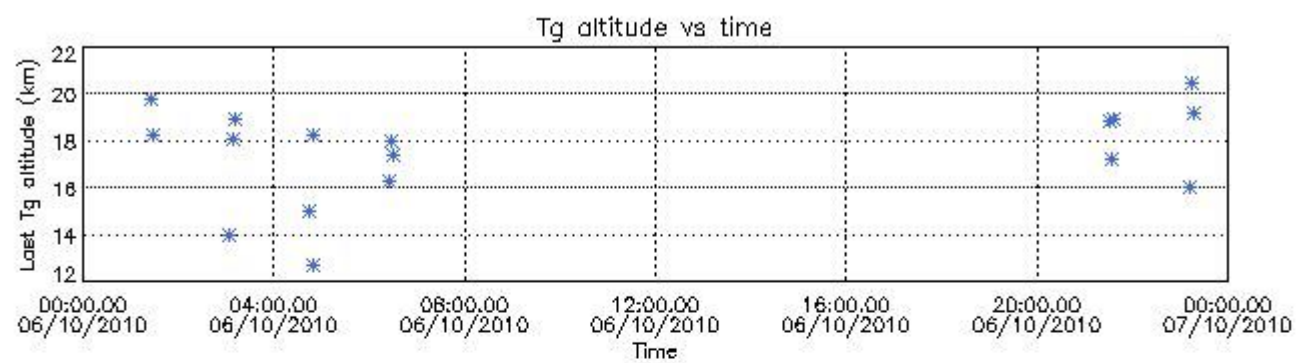
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.474	20.713	8.9895
St. deviation:	2.0940	3.6297	2.9747
Maximum:	20.464	29.656	12.167
Minimum:	12.674	3.7494	4.5448
Number of data:	17.000	50.000	6.0000

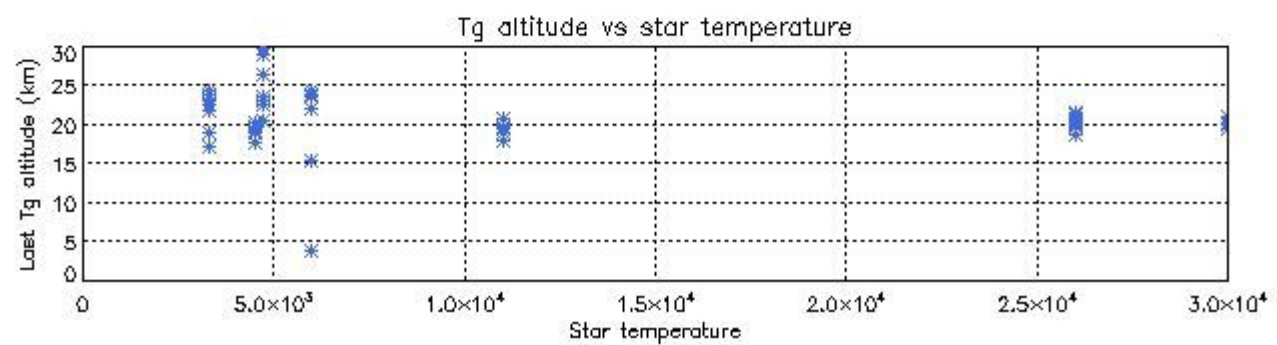
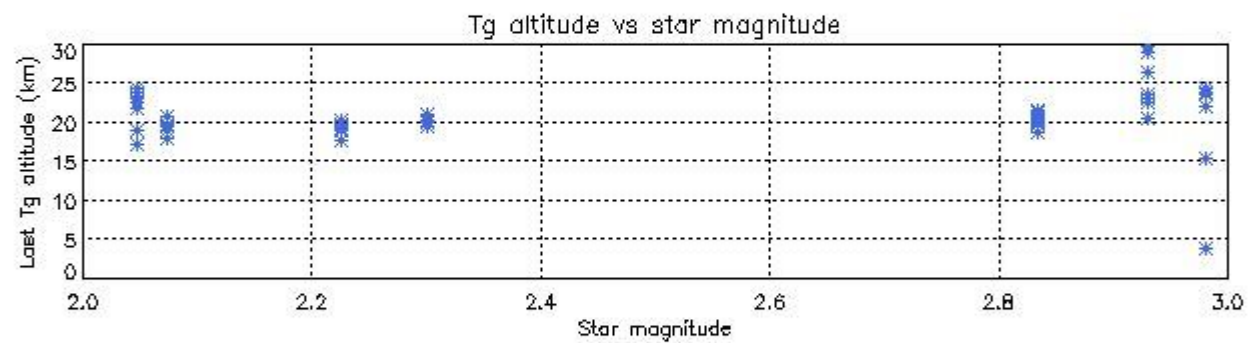
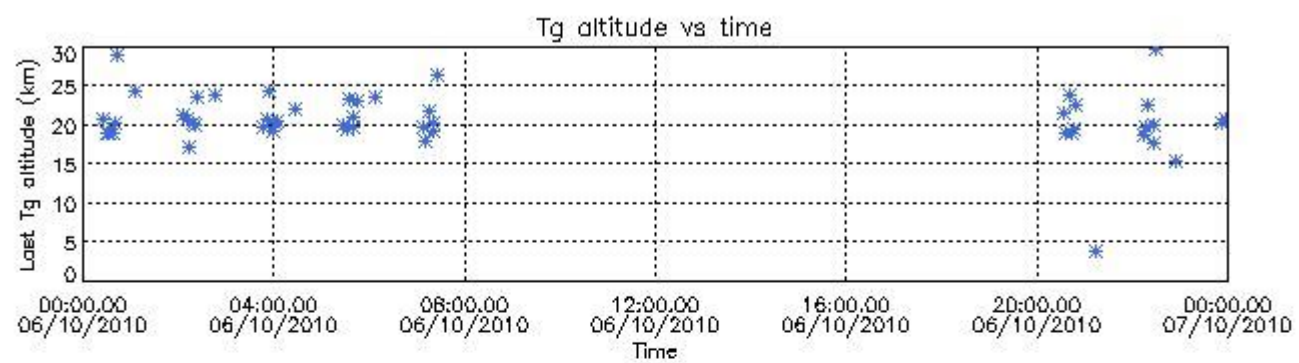
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



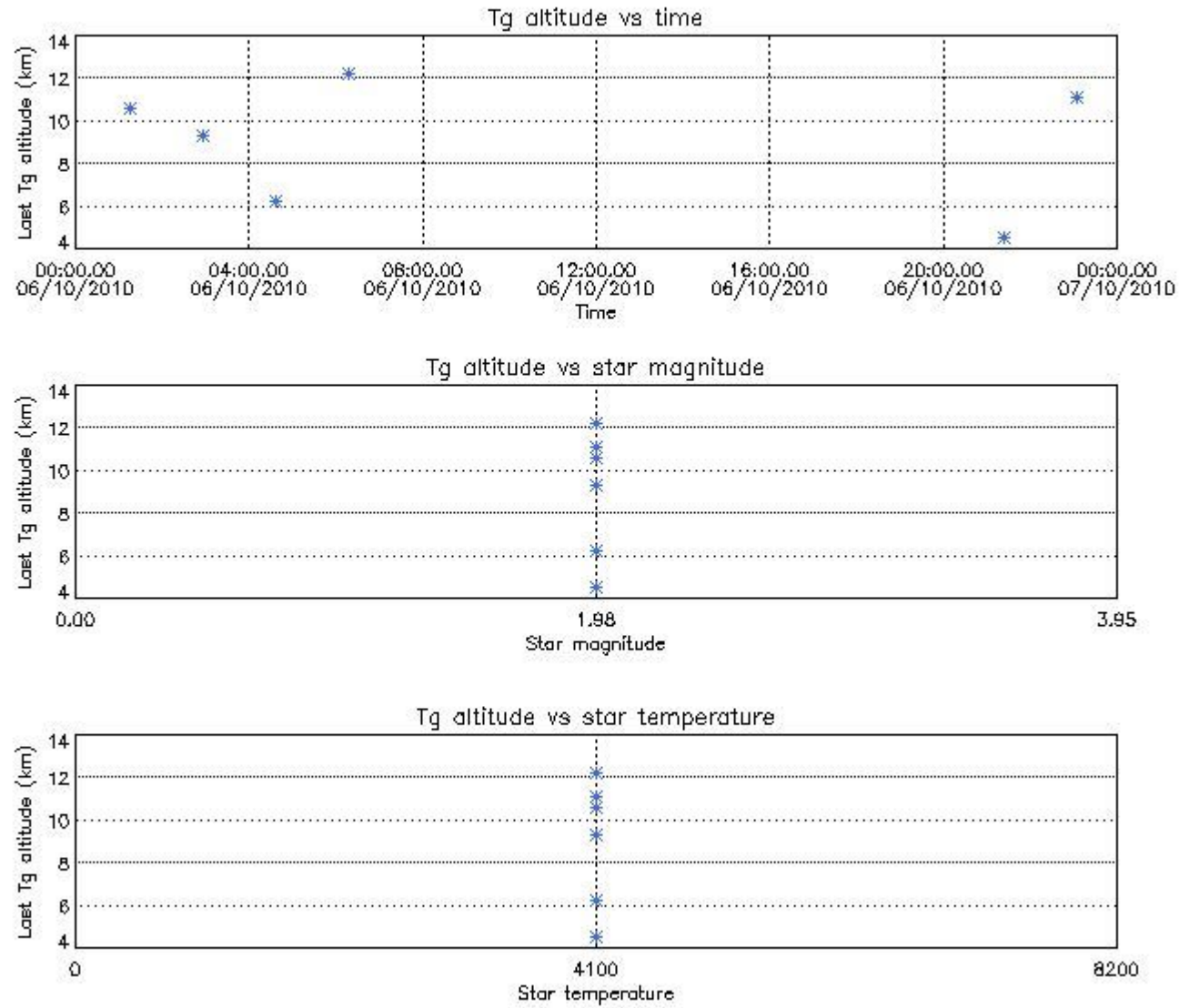
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

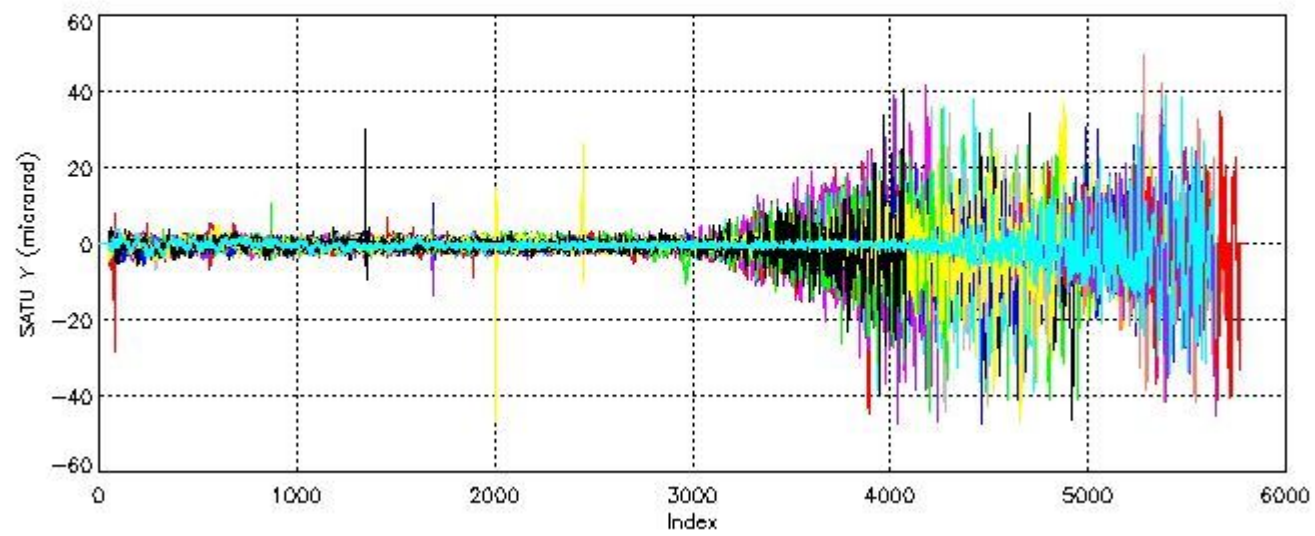
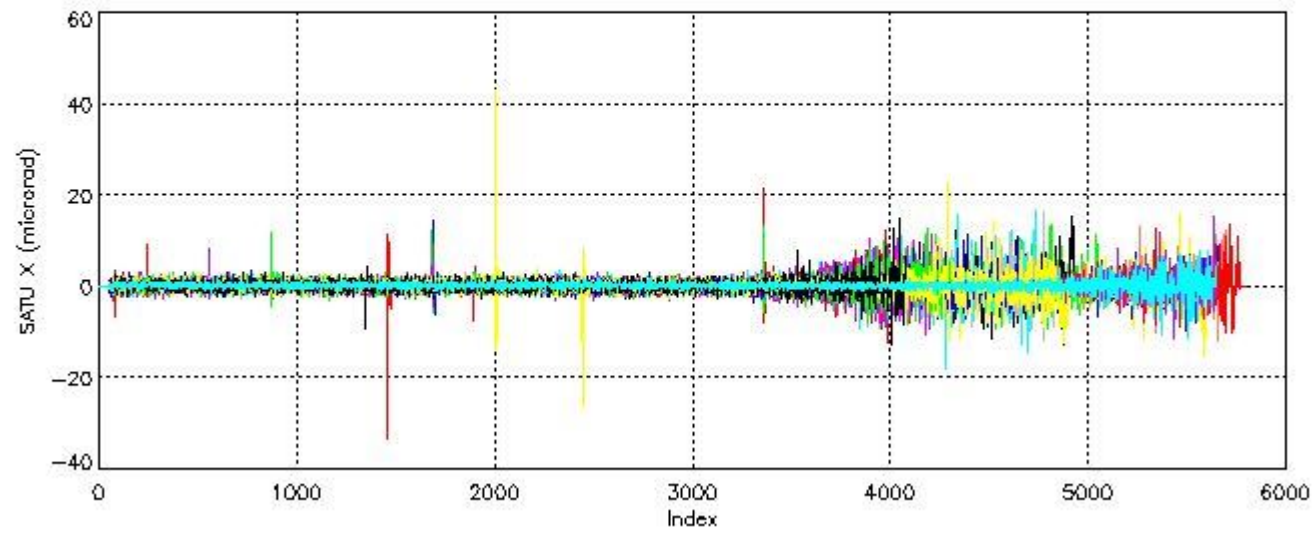


7. Star Acquisition and Tracking Unit (SATU)

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:	0.17805	-0.39454	0.17051	-0.46217
St. deviation:	0.68509	1.1825	0.83354	1.4198
Maximum:	11.600	10.500	6.2000	9.8000
Minimum:	-6.7000	-28.200	-5.7000	-12.000

Number of data:	18700.	18700.	50050.	50050.
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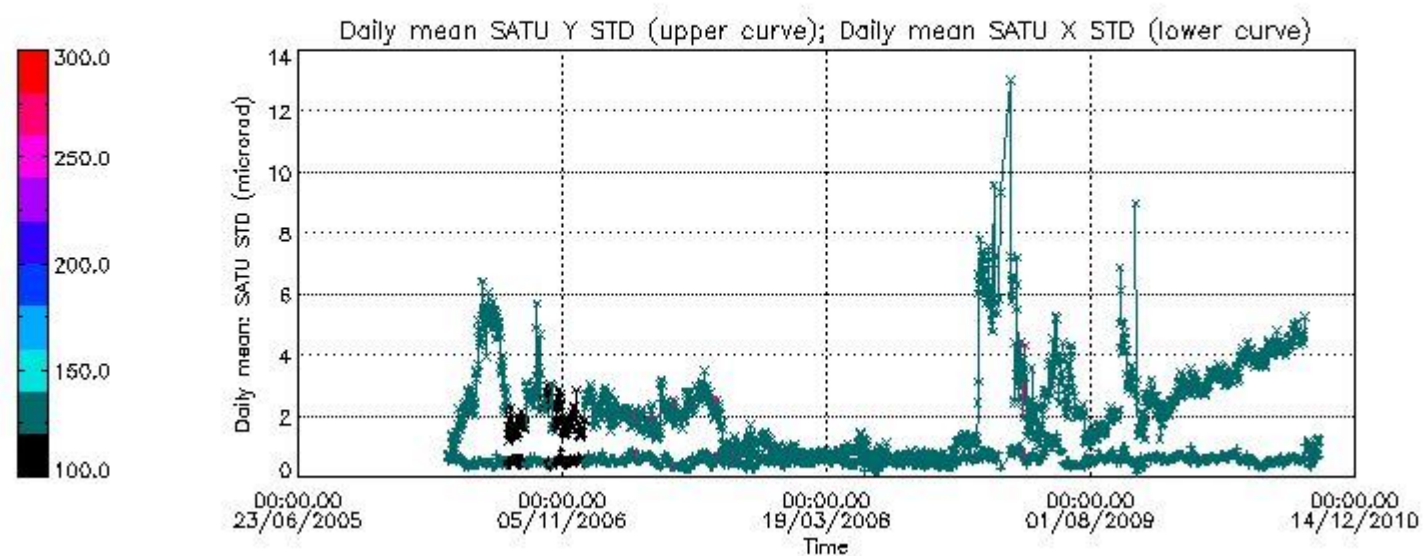
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

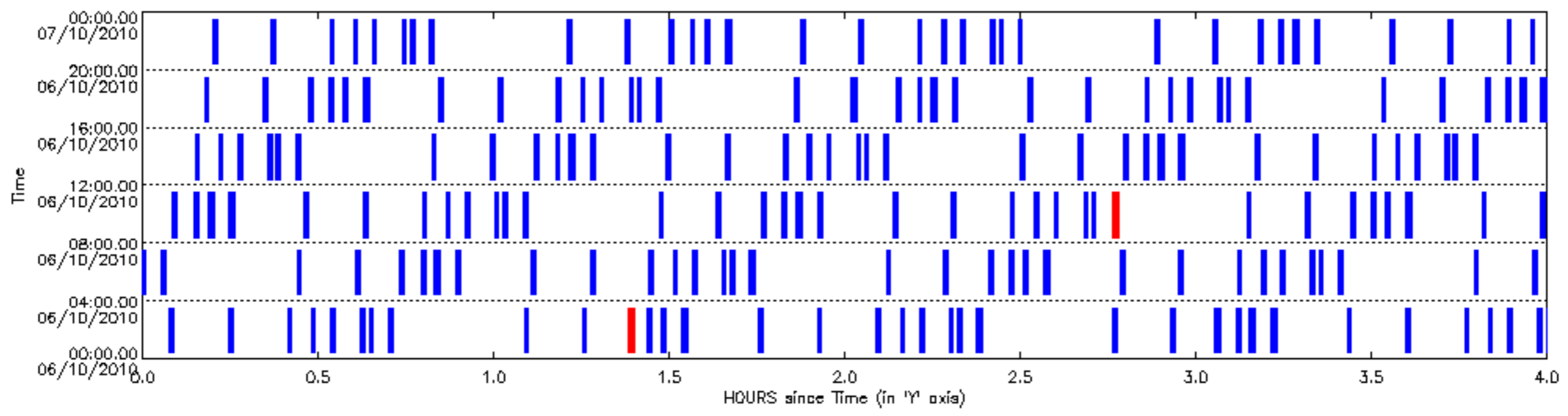
Lower curve: STD of SATU X axis

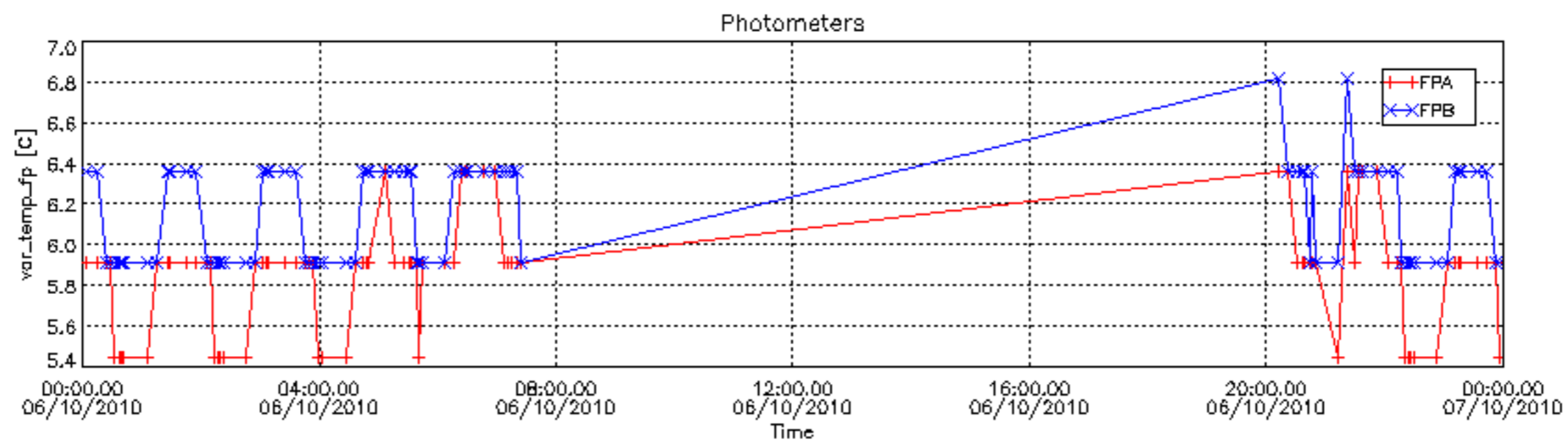
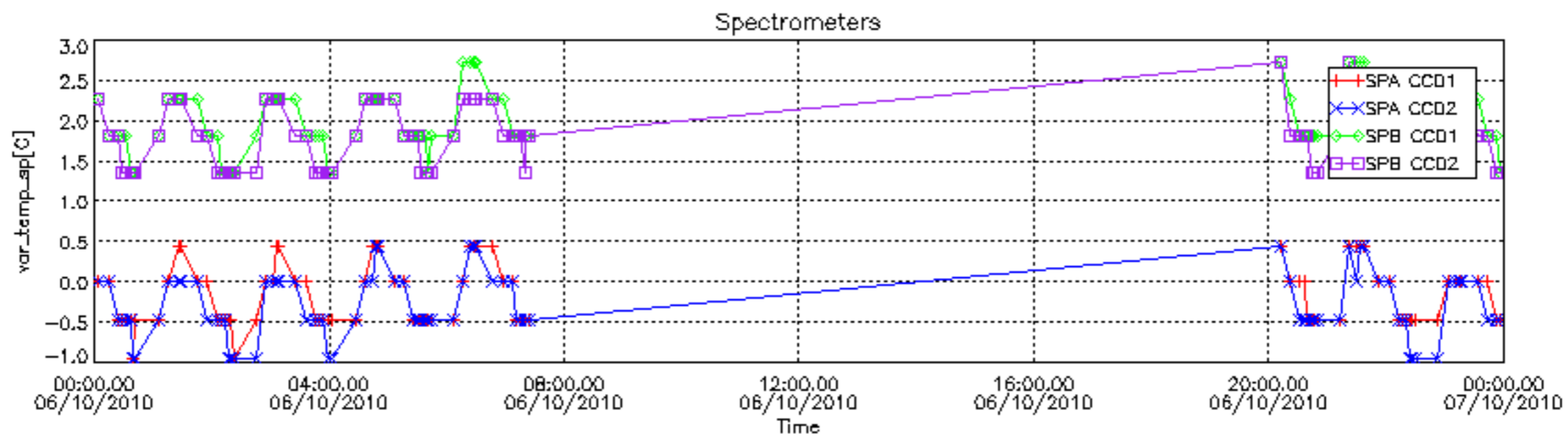


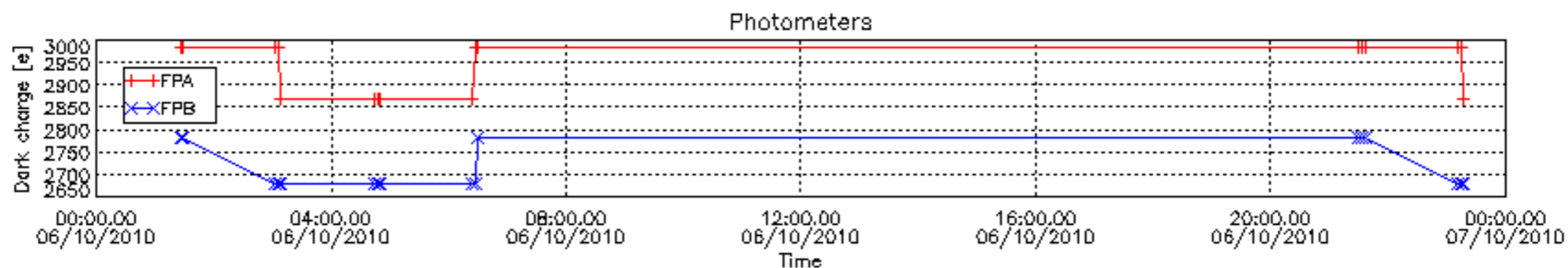
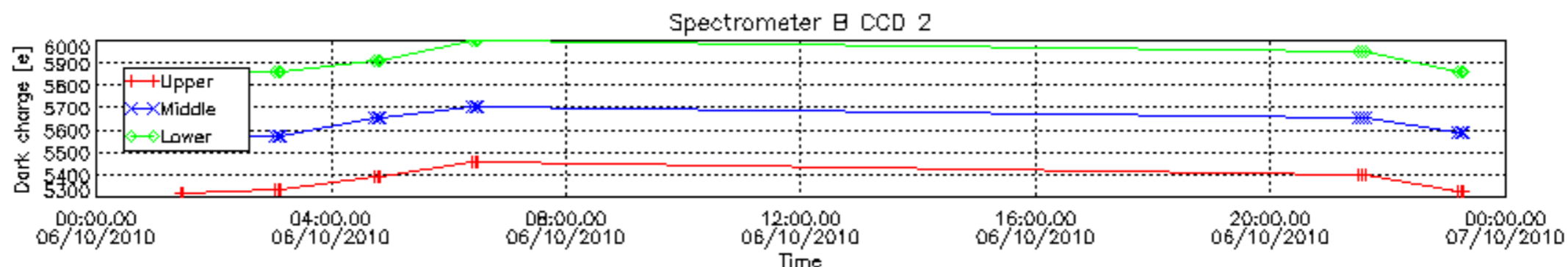
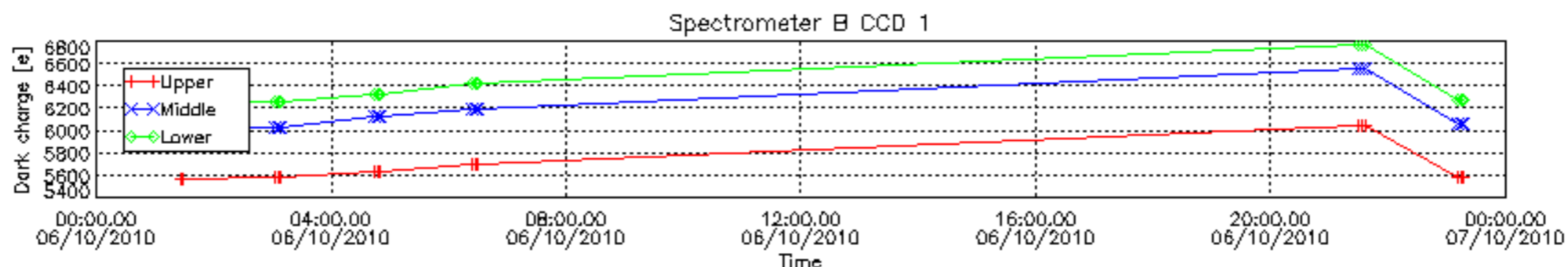
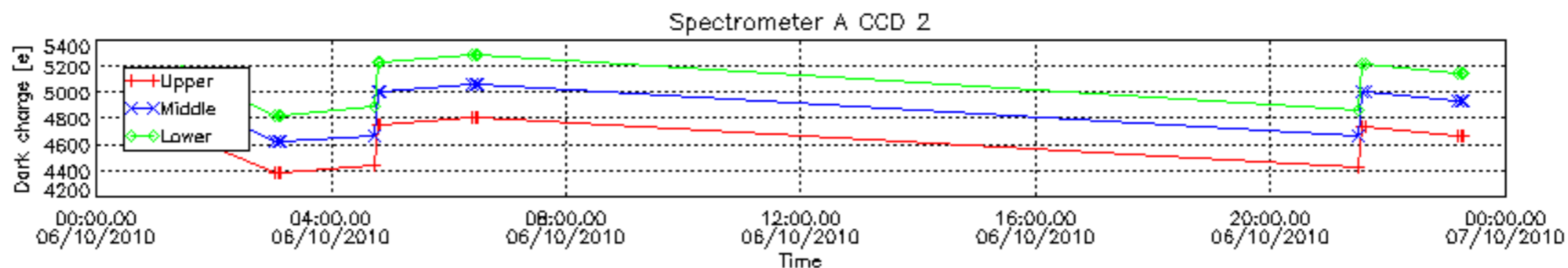
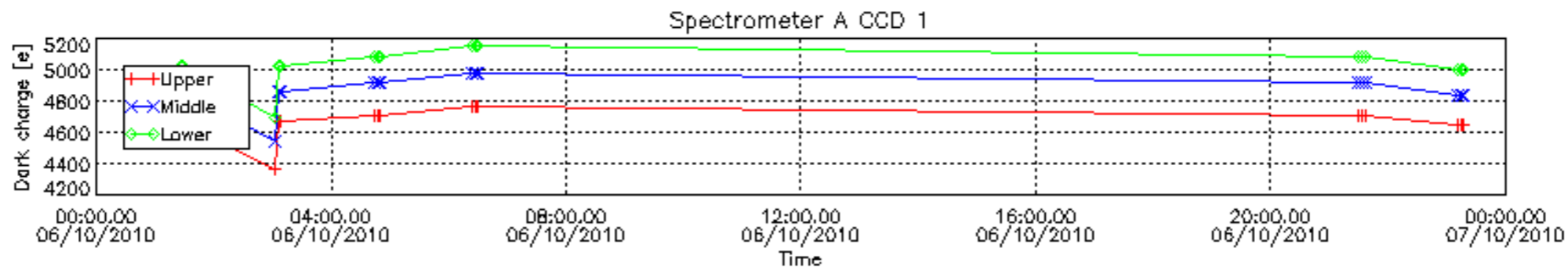
8. Auxiliary Data Files used for the production reported in section 2.4

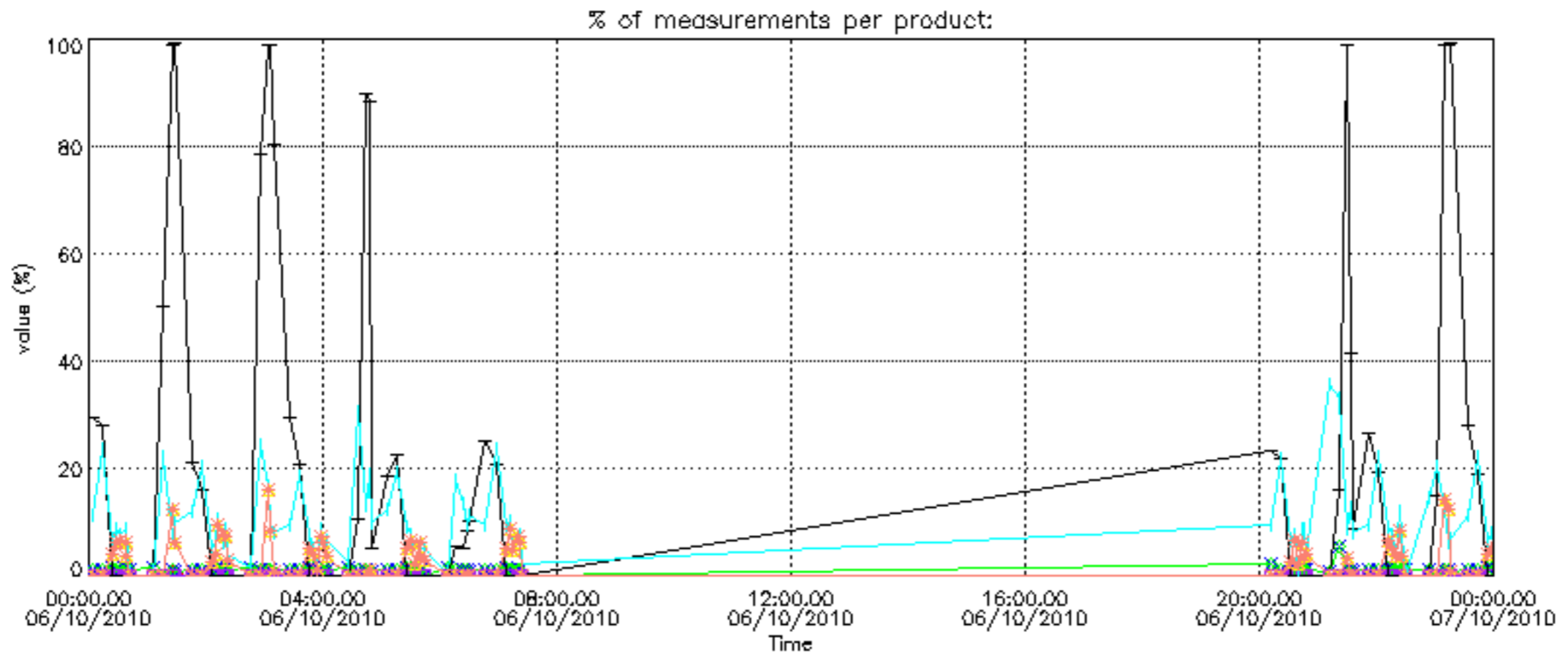
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	06-OCT-2010 00:04:33
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20101004_093812_20101002_000000_20500101_000000	1	06-OCT-2010 00:04:33
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	06-OCT-2010 00:04:33
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	06-OCT-2010 00:04:33
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	06-OCT-2010 00:04:33
ECMWF_FILE	AUX_ECF_AXNECM20101005_054114_20101005_210000_20101006_090000	1	06-OCT-2010 00:04:33
ECMWF_FILE	AUX_ECF_AXNECM20101005_172812_20101006_030000_20101006_150000	31	06-OCT-2010 03:58:24
ECMWF_FILE	AUX_ECA_AXNECM20101006_052114_20101005_210000_20101006_090000	47	06-OCT-2010 06:07:01
ECMWF_FILE	AUX_ECF_AXNECM20101006_054112_20101006_150000_20101007_030000	60	06-OCT-2010 20:11:52
ECMWF_FILE	AUX_ECF_AXNECM20101006_054112_20101006_210000_20101007_090000	69	06-OCT-2010 21:22:19
OPTIONAL_ECMWF_FILE	MISSING	1	06-OCT-2010 00:04:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101005_233458_000057382093_00316_44959_1204.N1	1	06-OCT-2010 00:04:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101006_011555_000092452093_00317_44960_1205.N1	11	06-OCT-2010 01:26:15
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101006_035518_000063762093_00319_44962_1206.N1	31	06-OCT-2010 03:58:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101006_054653_000060572093_00320_44963_1207.N1	47	06-OCT-2010 06:07:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101006_200737_000041442093_00329_44972_1208.N1	60	06-OCT-2010 20:11:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101006_212200_000057382093_00329_44972_1209.N1	69	06-OCT-2010 21:22:19
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101006_230257_000057382093_00330_44973_1210.N1	83	06-OCT-2010 23:10:37

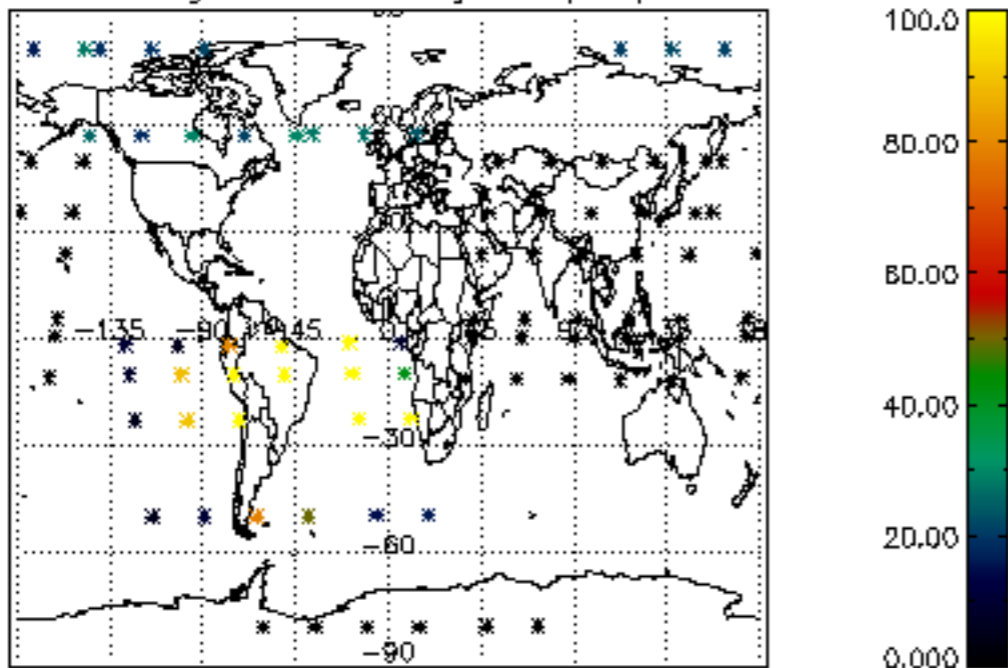




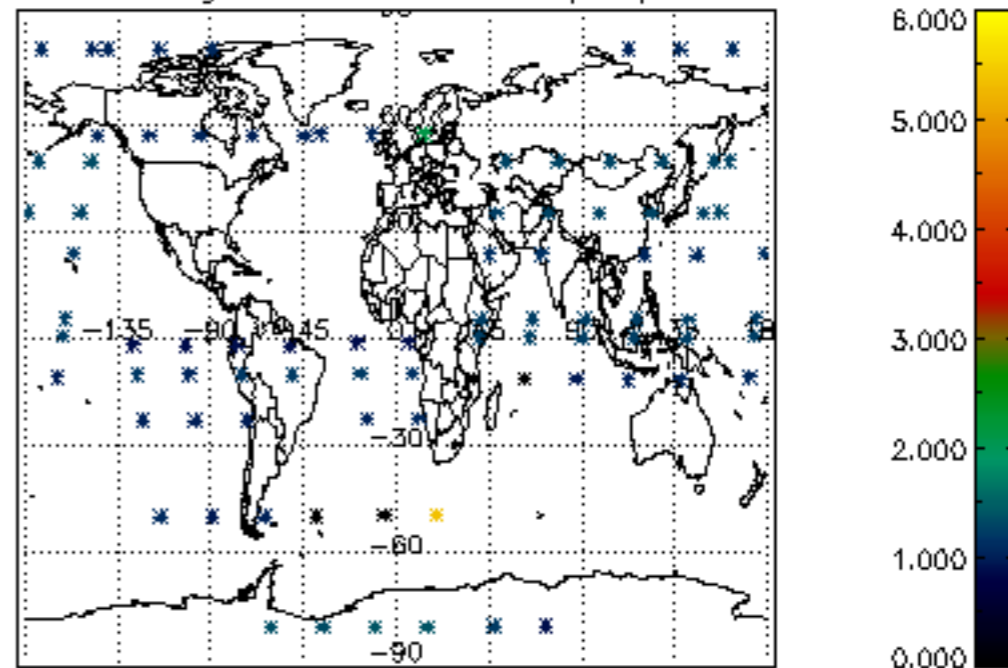




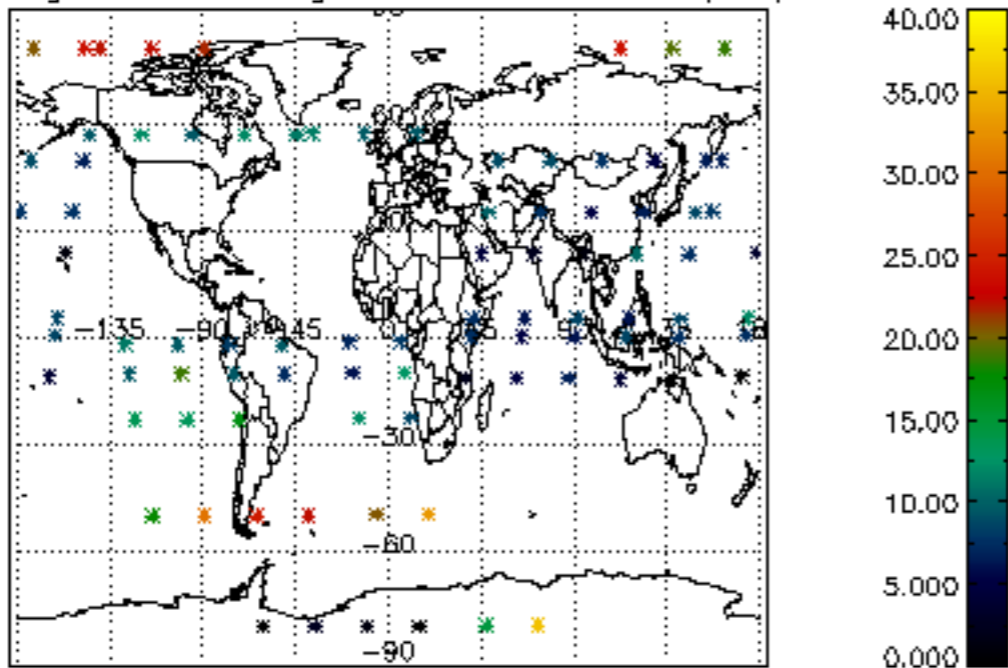
Percentage of cosmic ray hits per profile



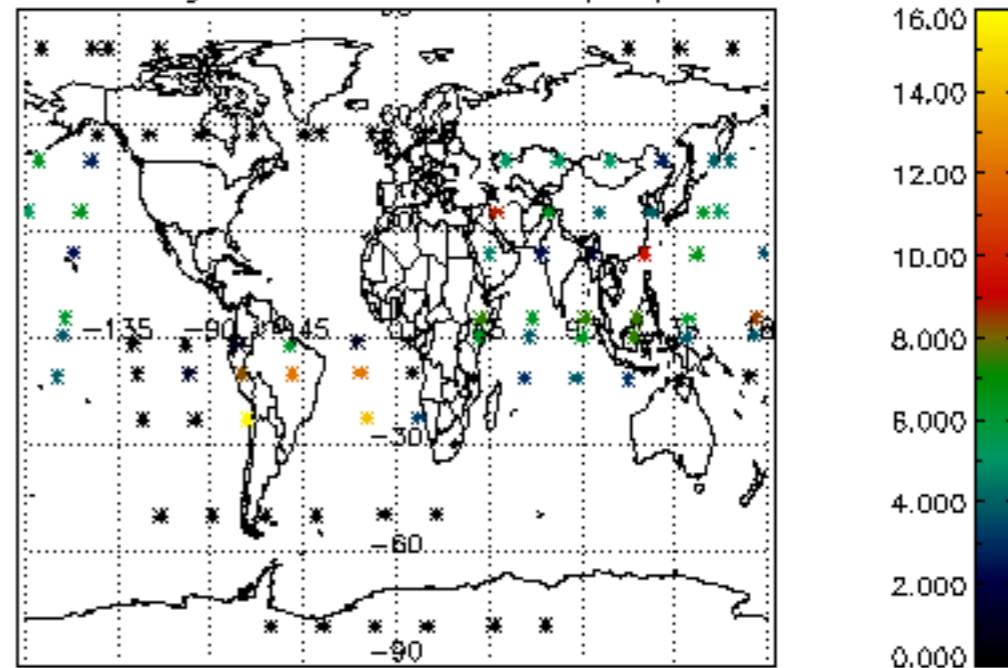
Percentage of datation errors per profile



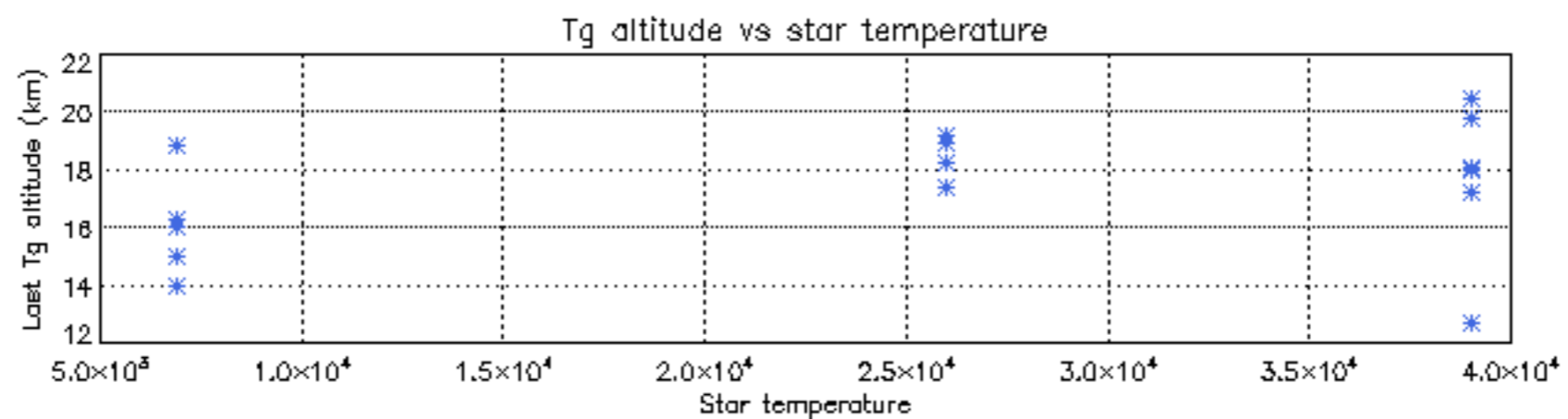
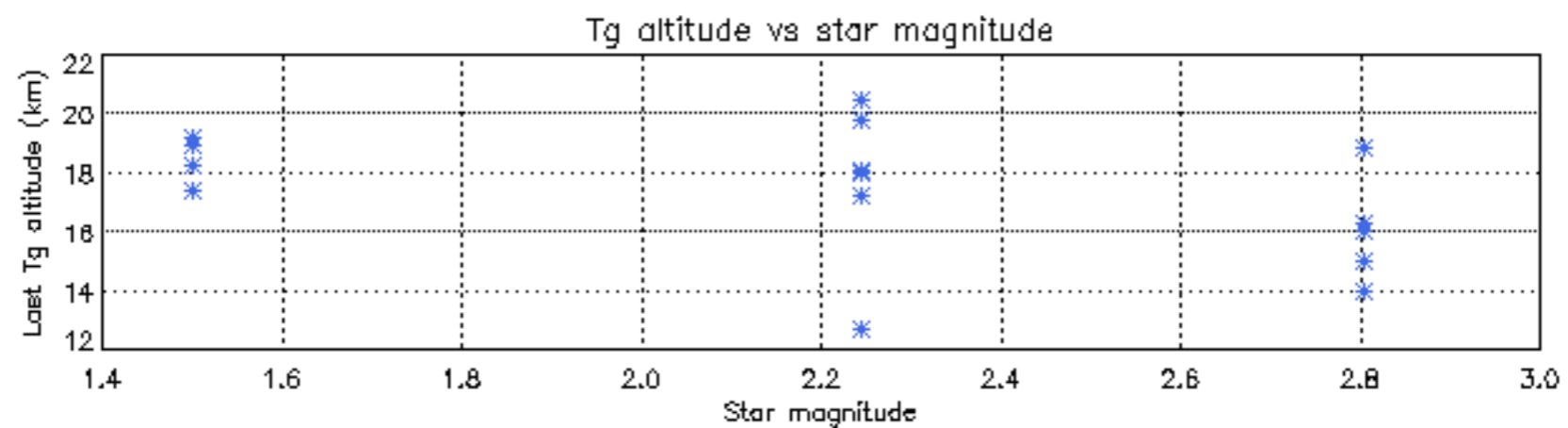
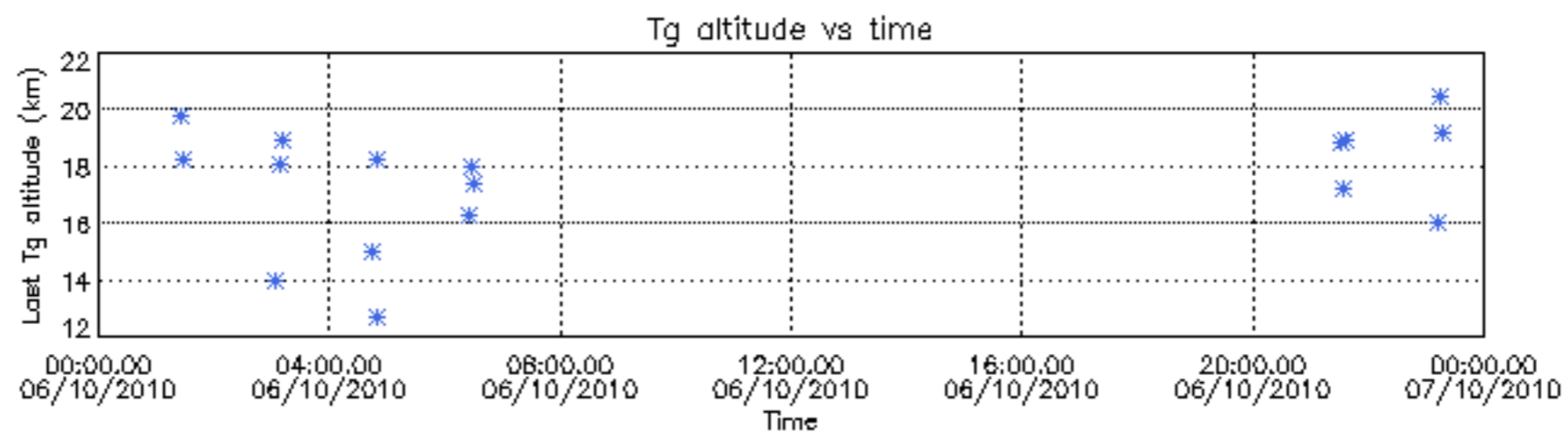
Percentage of star falling outside central band per profile



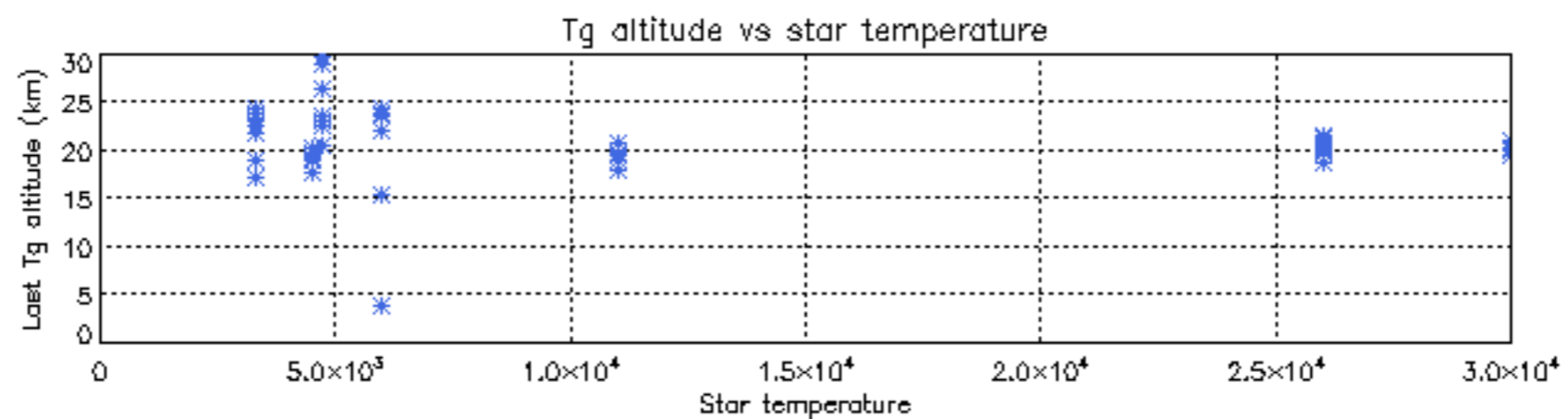
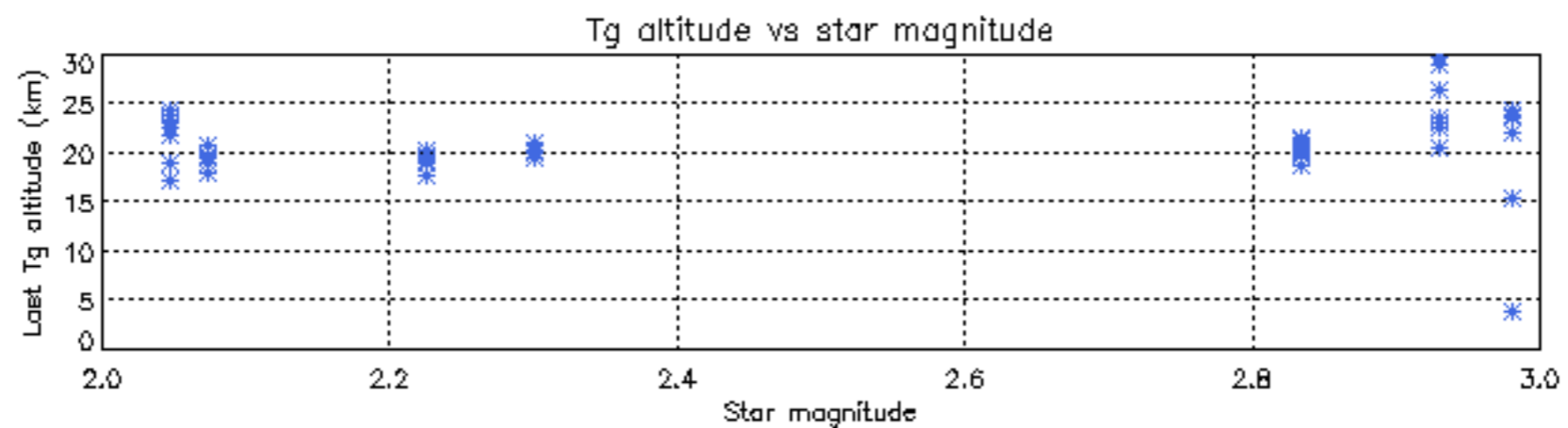
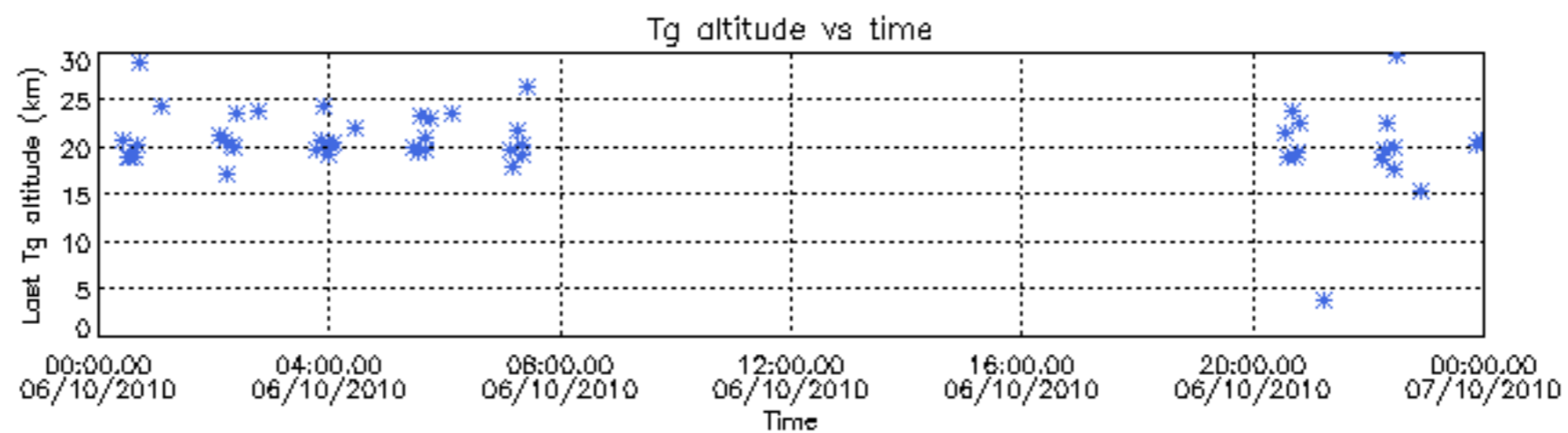
Percentage of saturation errors per profile



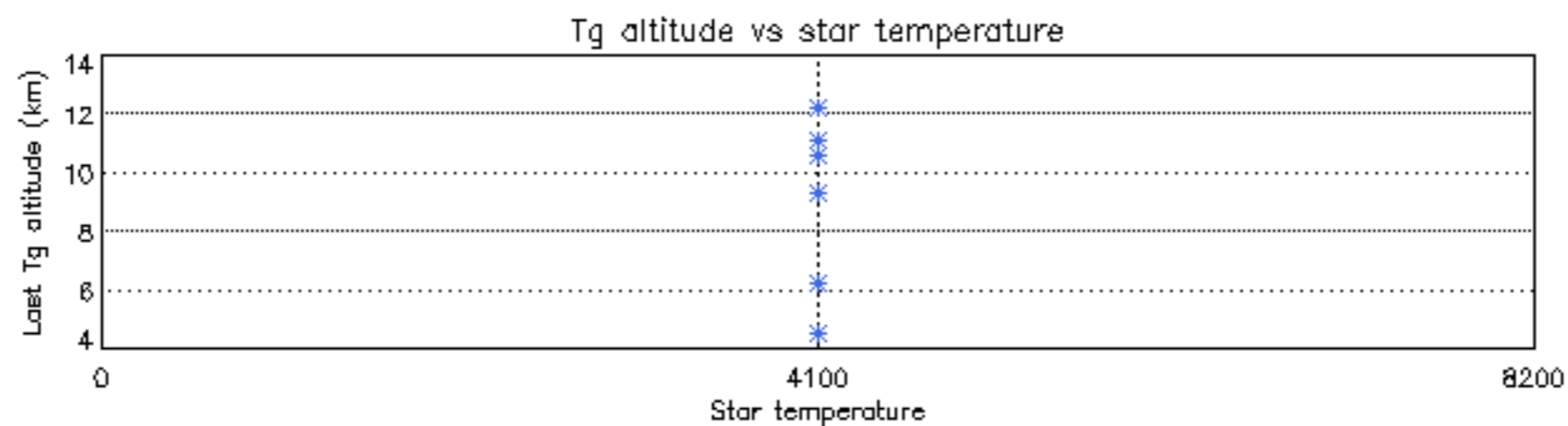
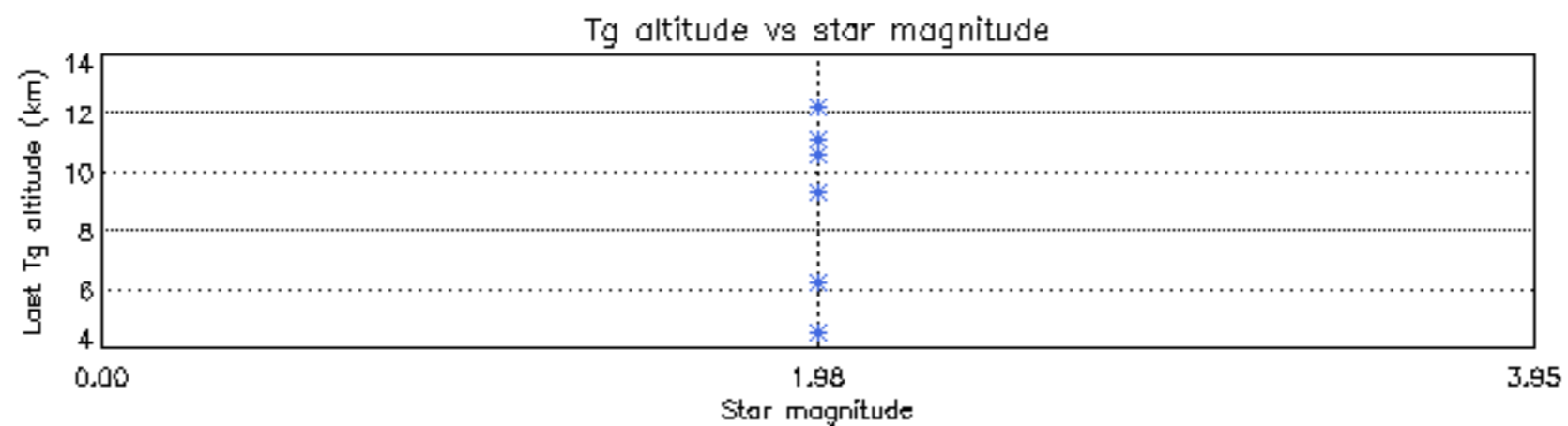
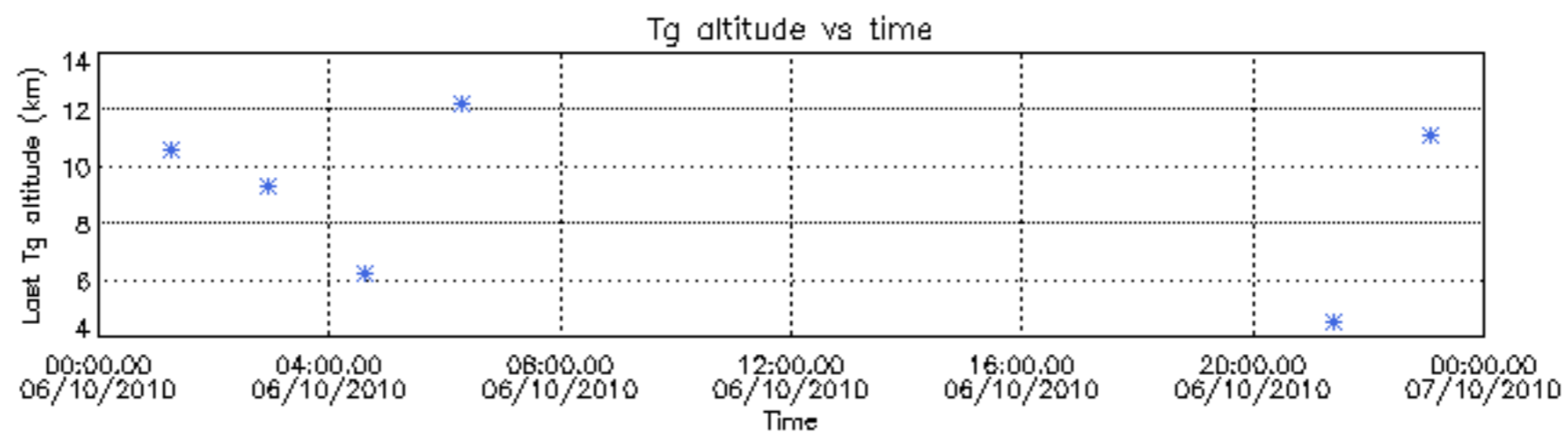
Tangent altitude at which the star is lost

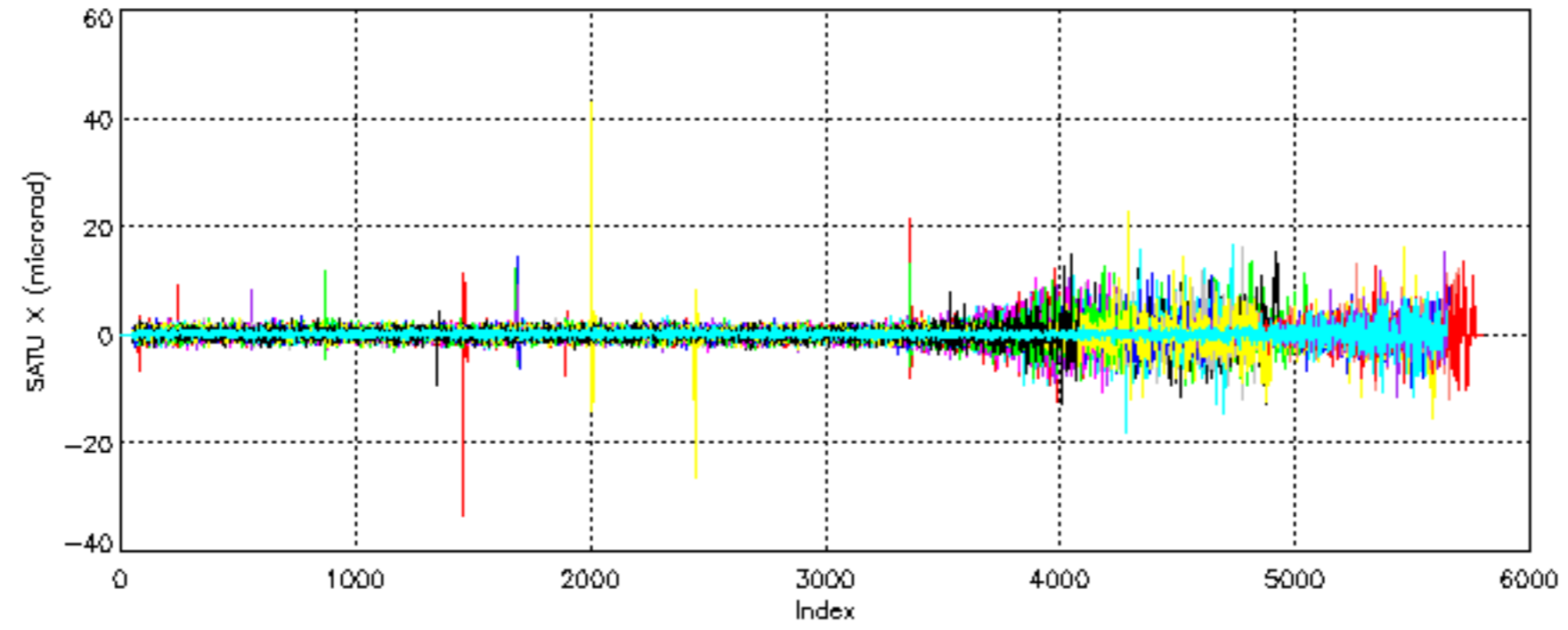


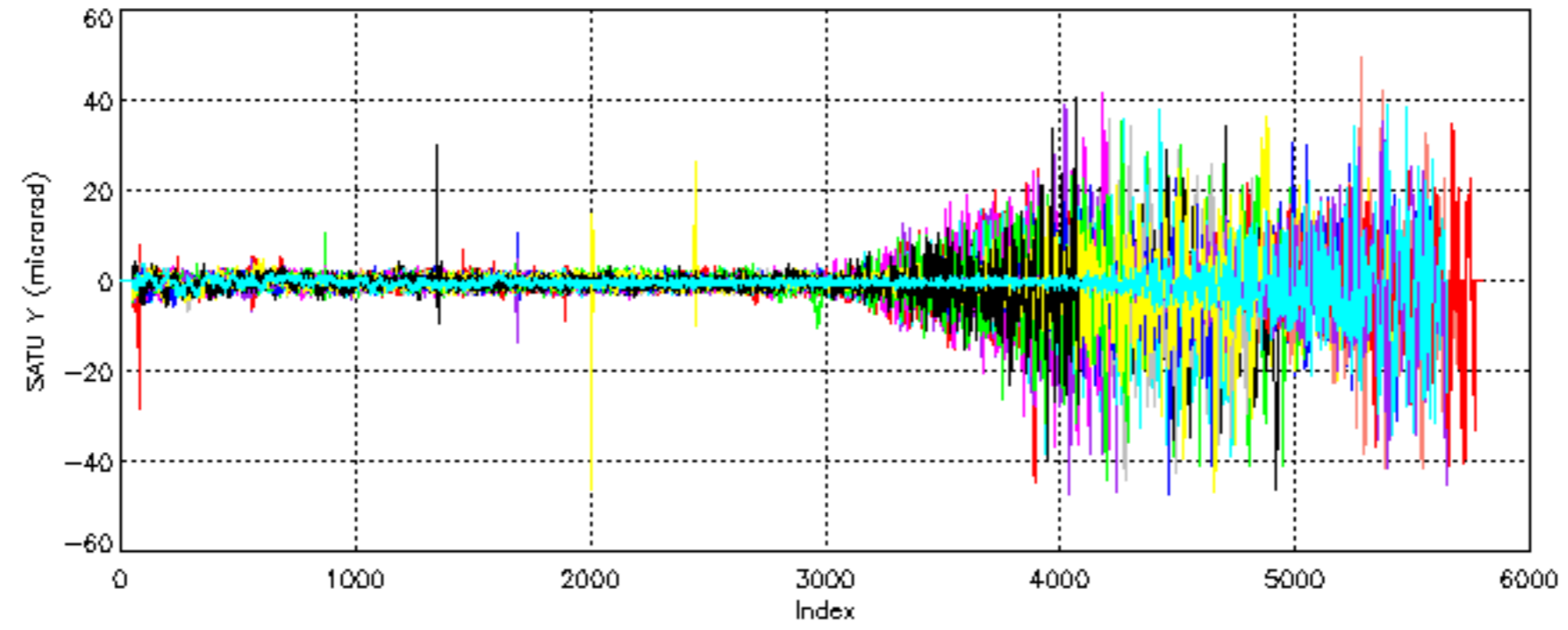
Tangent altitude at which the star is lost

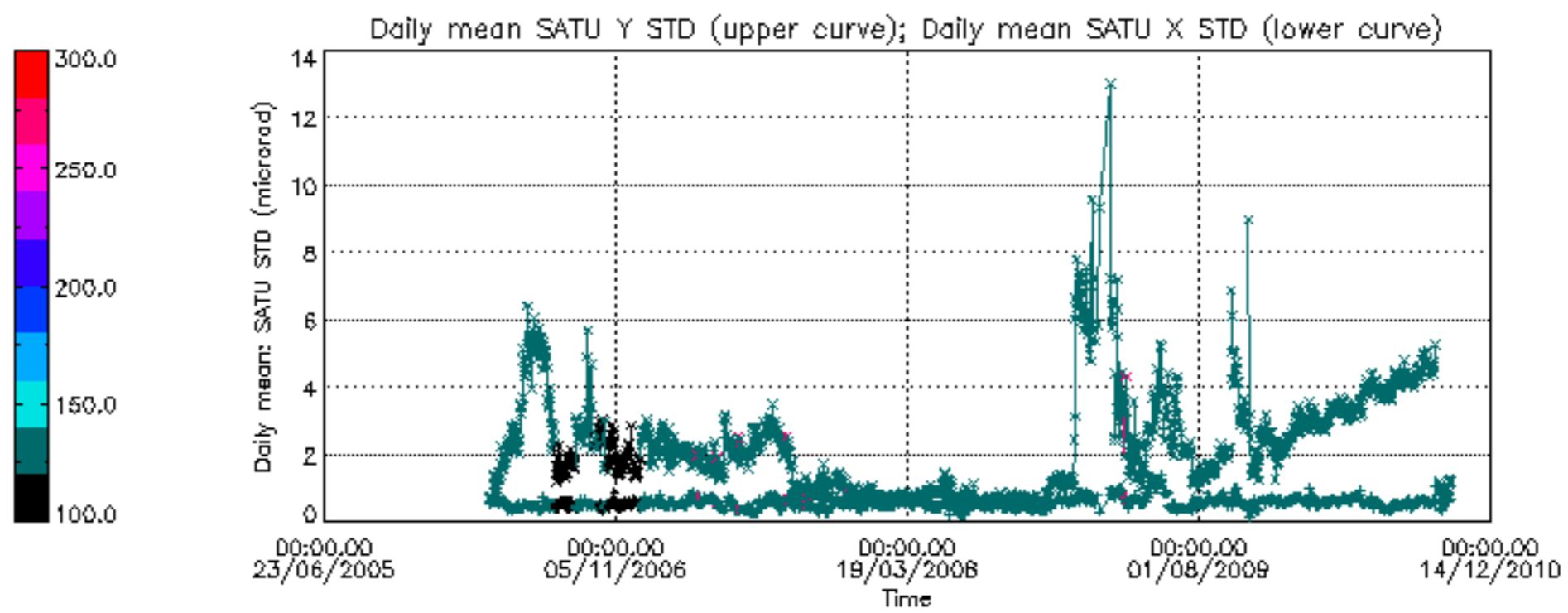


Tangent altitude at which the star is lost









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/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
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 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
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 5; -202.1; 01-OCT-2010 04:03:51; Dark ; 65.0; 37; 25Del CMA ; 1.83; 5900;occ; 130; 0;44890
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13; 6370.0; 02-OCT-2010 13:44:45; Dark ; 58.0; 108; Alp Col ; 2.65; 15200;occ; 116; 0;44910
14; 6964.6; 02-OCT-2010 13:54:40; Dark ; 48.5; 157; The1Eri ; 2.91; 9300;occ; 97; 0;44910
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5; 2946.4; 02-OCT-2010 14:28:17; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;44911
6; 3024.6; 02-OCT-2010 14:29:36; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44911
7; 4606.5; 02-OCT-2010 14:55:57; Bright; 45.0; 17; 78Bet Gem ; 1.16; 4500;occ; 90; 0;44911
8; 5603.1; 02-OCT-2010 15:12:34; Dark ; 46.0; 132; 15Rho Pup ; 2.80; 6900;occ; 92; 0;44911
9; 5860.7; 02-OCT-2010 15:16:52; Dark ; 63.0; 37; 25Del CMA ; 1.83; 5900;occ; 126; 0;44911
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11; 6137.3; 02-OCT-2010 15:21:28; Dark ; 41.5; 161; Tau Pup ; 2.93; 4500;occ; 83; 0;44911
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13; 6371.3; 02-OCT-2010 15:25:22; Dark ; 59.0; 108; Alp Col ; 2.65; 15200;occ; 118; 0;44911
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7; 4606.9; 02-OCT-2010 16:36:34; Bright; 37.0; 17; 78Bet Gem ; 1.16; 4500;occ; 74; 0;44912
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9; 5862.1; 02-OCT-2010 16:57:29; Dark ; 64.0; 37; 25Del CMA ; 1.83; 5900;occ; 128; 0;44912
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3; 2428.9; 02-OCT-2010 17:40:52; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44913

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 7; 4607.3; 02-OCT-2010 18:17:10; Bright; 37.0; 17; 78Bet Gem ; 1.16; 4500;occ; 74; 0;44913
 8; 5604.8; 02-OCT-2010 18:33:48; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;44913
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 5; 2645.4; 02-OCT-2010 19:25:04; Bright; 47.5; 53; 43Bet And ; 2.05; 3300;occ; 95; 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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 9; 2180.1; 03-OCT-2010 01:59:43; Bright; 40.0; 140; 88Gam Peg ; 2.83; 26000;occ; 80; 0;44918
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 11; 2642.9; 03-OCT-2010 02:07:25; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;44918
 12; 2944.8; 03-OCT-2010 02:12:27; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44918
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4; 2655.8; 15-OCT-2010 19:16:34; Bright; 47.0; 173; 4Bet Tri ; 3.00; 8900;occ; 94; 0;45100
5; 2767.0; 15-OCT-2010 19:18:26; Bright; 47.5; 73; 57Gam1And ; 2.26; 13100;occ; 95; 0;45100
6; 2968.2; 15-OCT-2010 19:21:47; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;45100
7; 3085.5; 15-OCT-2010 19:23:44; Bright; 49.0; 160; 23Gam Per ; 2.93; 4700;occ; 98; 0;45100
8; 4633.3; 15-OCT-2010 19:49:32; Bright; 41.5; 166; 17Eps Leo ; 2.98; 6000;occ; 83; 0;45100
9; 4829.0; 15-OCT-2010 19:52:48; Bright; 39.5; 22; 32Alp Leo ; 1.36; 15200;occ; 79; 0;45100
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11; 5803.7; 15-OCT-2010 20:09:02; Dark ; 52.0; 132; 15Rho Pup ; 2.80; 6900;occ; 104; 0;45100
12; 6165.6; 15-OCT-2010 20:15:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45100
13; 6290.6; 15-OCT-2010 20:17:09; Dark ; 44.5; 161; Tau Pup ; 2.93; 4500;occ; 89; 0;45100
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15; 4830.4; 16-OCT-2010 02:35:12; Bright; 40.0; 22; 32Alp Leo ; 1.36; 15200;occ; 80; 0;45104
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17; 5808.7; 16-OCT-2010 02:51:31; Dark ; 53.5; 132; 15Rho Pup ; 2.80; 6900;occ; 107; 0;45104

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