

GOMOS Daily Report 15-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	17OCT2010 04:34:06
Data source version	GOMOS/5.01
Start time of products	15OCT2010 00:01:36
Stop time of products	15OCT2010 23:51:30
Store outputs in DB	Yes
Nb of level 1b prods	84
Nb of prods with errors	0

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

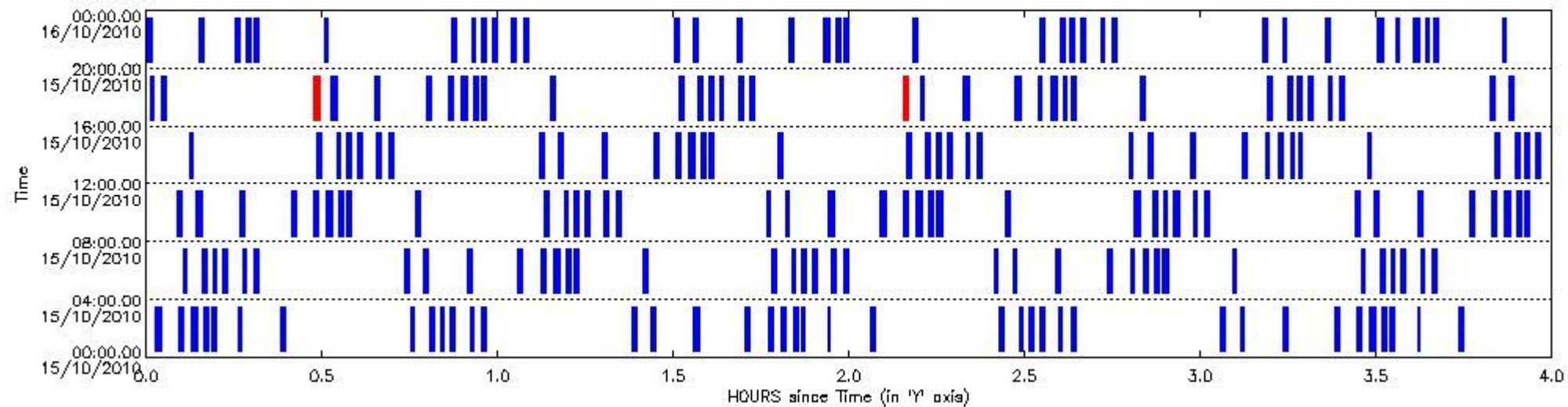
2.1 Level 0 products arrived in PCF (see template [here](#))

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
15-OCT-2010 16:28:34	17EpsLeo	166	45098
15-OCT-2010 18:09:10	17EpsLeo	166	45099

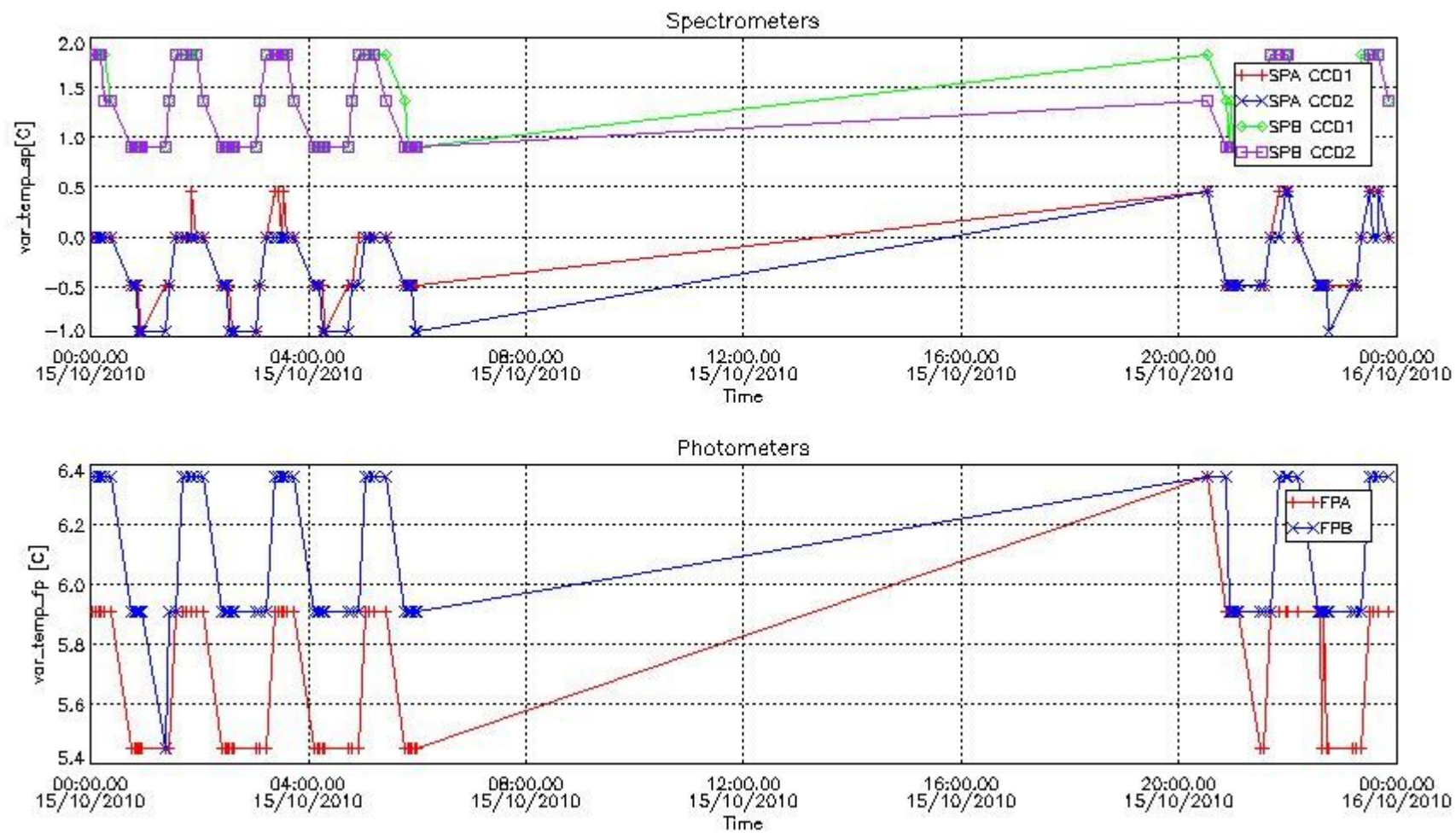
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20101015_000136_000000542093_00445_45088_2218.N1	15-OCT-2010 00:01:36	Dark	53.500	132	15Rho Pup	2.8030	6900.0	107	45088	No
2	GOM_TRA_1PNPDE20101015_000532_000000462093_00445_45088_2219.N1	15-OCT-2010 00:05:32	Dark	45.500	34	Gam2Vel	1.7930	23000.	91	45088	No
3	GOM_TRA_1PNPDE20101015_000948_000000442093_00446_45089_2220.N1	15-OCT-2010 00:09:48	Dark	44.000	161	Tau Pup	2.9310	4500.0	88	45089	No
4	GOM_TRA_1PNPDE20101015_001109_000000462093_00446_45089_2221.N1	15-OCT-2010 00:11:09	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	45089	No
5	GOM_TRA_1PNPDE20101015_001546_000000252093_00446_45089_2222.N1	15-OCT-2010 00:15:46	Dark	25.000	108	Alp Col	2.6520	15200.	50	45089	No
6	GOM_TRA_1PNPDE20101015_002301_000000462093_00446_45089_2223.N1	15-OCT-2010 00:23:01	Straylight	45.500	157	The1Eri	2.9060	9300.0	91	45089	No
7	GOM_TRA_1PNPDE20101015_004502_000000472093_00446_45089_2224.N1	15-OCT-2010 00:45:02	Bright	46.500	105	6Bet Ari	2.6450	8900.0	93	45089	No
8	GOM_TRA_1PNPDE20101015_004823_000000412093_00446_45089_2225.N1	15-OCT-2010 00:48:23	Bright	40.500	53	43Bet And	2.0480	3300.0	81	45089	No
9	GOM_TRA_1PNPDE20101015_005007_000000472093_00446_45089_2226.N1	15-OCT-2010 00:50:07	Bright	46.500	173	4Bet Tri	3.0040	8900.0	93	45089	No

10	GOM_TRA_1PNPDE20101015_005157_000000472093_00446_45089_2227.N1	15-OCT-2010 00:51:57	Bright	46.500	73	57Gam1And	2.2600	13100.	93	45089	No
11	GOM_TRA_1PNPDE20101015_005514_000000392093_00446_45089_2228.N1	15-OCT-2010 00:55:14	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	45089	No
12	GOM_TRA_1PNPDE20101015_005717_000000482093_00446_45089_2229.N1	15-OCT-2010 00:57:17	Bright	47.500	160	23Gam Per	2.9300	4700.0	95	45089	No
13	GOM_TRA_1PNPDE20101015_012254_000000562093_00446_45089_2230.N1	15-OCT-2010 01:22:54	Bright	55.500	166	17Eps Leo	2.9800	6000.0	111	45089	No
14	GOM_TRA_1PNPDE20101015_012609_000000572093_00446_45089_2231.N1	15-OCT-2010 01:26:09	Bright	56.500	22	32Alp Leo	1.3600	15200.	113	45089	No
15	GOM_TRA_1PNPDE20101015_013327_000000532093_00446_45089_2239.N1	15-OCT-2010 01:33:27	Dark	53.000	48	30Alp Hya	1.9770	4100.0	106	45089	No
16	GOM_TRA_1PNPDE20101015_014213_000000532093_00446_45089_2240.N1	15-OCT-2010 01:42:13	Dark	53.000	132	15Rho Pup	2.8030	6900.0	106	45089	No
17	GOM_TRA_1PNPDE20101015_014609_000000492093_00446_45089_2241.N1	15-OCT-2010 01:46:09	Dark	48.500	34	Gam2Vel	1.7930	23000.	97	45089	No
18	GOM_TRA_1PNPDE20101015_015025_000000542093_00447_45090_2242.N1	15-OCT-2010 01:50:25	Dark	54.000	161	Tau Pup	2.9310	4500.0	108	45090	No
19	GOM_TRA_1PNPDE20101015_015146_000000452093_00447_45090_2243.N1	15-OCT-2010 01:51:46	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	45090	No
20	GOM_TRA_1PNPDE20101015_015623_000000252093_00447_45090_2244.N1	15-OCT-2010 01:56:23	Dark	25.000	108	Alp Col	2.6520	15200.	50	45090	No
21	GOM_TRA_1PNPDE20101015_020337_000000452093_00447_45090_2245.N1	15-OCT-2010 02:03:37	Straylight	45.000	157	The1Eri	2.9060	9300.0	90	45090	No
22	GOM_TRA_1PNPDE20101015_022537_000000492093_00447_45090_2246.N1	15-OCT-2010 02:25:37	Bright	48.500	105	6Bet Ari	2.6450	8900.0	97	45090	No
23	GOM_TRA_1PNPDE20101015_022858_000000442093_00447_45090_2247.N1	15-OCT-2010 02:28:58	Bright	43.500	53	43Bet And	2.0480	3300.0	87	45090	No
24	GOM_TRA_1PNPDE20101015_023042_000000482093_00447_45090_2248.N1	15-OCT-2010 02:30:42	Bright	48.000	173	4Bet Tri	3.0040	8900.0	96	45090	No
25	GOM_TRA_1PNPDE20101015_023232_000000462093_00447_45090_2249.N1	15-OCT-2010 02:32:32	Bright	46.000	73	57Gam1And	2.2600	13100.	92	45090	No
26	GOM_TRA_1PNPDE20101015_023550_000000372093_00447_45090_2250.N1	15-OCT-2010 02:35:50	Bright	36.500	76	27Gam Cas	2.3000	30000.	73	45090	No
27	GOM_TRA_1PNPDE20101015_023753_000000462093_00447_45090_2251.N1	15-OCT-2010 02:37:53	Bright	45.500	160	23Gam Per	2.9300	4700.0	91	45090	No
28	GOM_TRA_1PNPDE20101015_030330_000000422093_00447_45090_2264.N1	15-OCT-2010 03:03:30	Bright	41.500	166	17Eps Leo	2.9800	6000.0	83	45090	No
29	GOM_TRA_1PNPDE20101015_030645_000000402093_00447_45090_2265.N1	15-OCT-2010 03:06:45	Bright	40.000	22	32Alp Leo	1.3600	15200.	80	45090	No
30	GOM_TRA_1PNPDE20101015_031404_000000532093_00447_45090_2266.N1	15-OCT-2010 03:14:04	Dark	52.500	48	30Alp Hya	1.9770	4100.0	105	45090	No
31	GOM_TRA_1PNPDE20101015_032250_000000532093_00447_45090_2267.N1	15-OCT-2010 03:22:50	Dark	52.500	132	15Rho Pup	2.8030	6900.0	105	45090	No
32	GOM_TRA_1PNPDE20101015_032646_000000422093_00447_45090_2268.N1	15-OCT-2010 03:26:46	Dark	42.000	34	Gam2Vel	1.7930	23000.	84	45090	No
33	GOM_TRA_1PNPDE20101015_033101_000000462093_00448_45091_2269.N1	15-OCT-2010 03:31:01	Dark	46.000	161	Tau Pup	2.9310	4500.0	92	45091	No
34	GOM_TRA_1PNPDE20101015_033222_000000462093_00448_45091_2270.N1	15-OCT-2010 03:32:22	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	45091	No
35	GOM_TRA_1PNPDE20101015_033701_000000252093_00448_45091_2271.N1	15-OCT-2010 03:37:01	Dark	25.000	108	Alp Col	2.6520	15200.	50	45091	No
36	GOM_TRA_1PNPDE20101015_034413_000000472093_00448_45091_2272.N1	15-OCT-2010 03:44:13	Straylight	46.500	157	The1Eri	2.9060	9300.0	93	45091	No
37	GOM_TRA_1PNPDE20101015_040613_000000472093_00448_45091_2273.N1	15-OCT-2010 04:06:13	Bright	46.500	105	6Bet Ari	2.6450	8900.0	93	45091	No
38	GOM_TRA_1PNPDE20101015_040934_000000422093_00448_45091_2274.N1	15-OCT-2010 04:09:34	Bright	42.000	53	43Bet And	2.0480	3300.0	84	45091	No
39	GOM_TRA_1PNPDE20101015_041117_000000462093_00448_45091_2275.N1	15-OCT-2010 04:11:17	Bright	46.000	173	4Bet Tri	3.0040	8900.0	92	45091	No
40	GOM_TRA_1PNPDE20101015_041308_000000482093_00448_45091_2276.N1	15-OCT-2010 04:13:08	Bright	47.500	73	57Gam1And	2.2600	13100.	95	45091	No
41	GOM_TRA_1PNPDE20101015_041625_000000382093_00448_45091_2277.N1	15-OCT-2010 04:16:25	Bright	37.500	76	27Gam Cas	2.3000	30000.	75	45091	No
42	GOM_TRA_1PNPDE20101015_041828_000000482093_00448_45091_2278.N1	15-OCT-2010 04:18:28	Bright	48.000	160	23Gam Per	2.9300	4700.0	96	45091	No
43	GOM_TRA_1PNPDE20101015_044406_000000422093_00448_45091_2285.N1	15-OCT-2010 04:44:06	Bright	42.000	166	17Eps Leo	2.9800	6000.0	84	45091	No
44	GOM_TRA_1PNPDE20101015_044721_000000402093_00448_45091_2286.N1	15-OCT-2010 04:47:21	Bright	40.000	22	32Alp Leo	1.3600	15200.	80	45091	No
45	GOM_TRA_1PNPDE20101015_045440_000000512093_00448_45091_2287.N1	15-OCT-2010 04:54:40	Dark	51.000	48	30Alp Hya	1.9770	4100.0	102	45091	No
46	GOM_TRA_1PNPDE20101015_050327_000000512093_00448_45091_2288.N1	15-OCT-2010 05:03:27	Dark	51.000	132	15Rho Pup	2.8030	6900.0	102	45091	No
47	GOM_TRA_1PNPDE20101015_050722_000000452093_00448_45091_2289.N1	15-OCT-2010 05:07:22	Dark	45.000	34	Gam2Vel	1.7930	23000.	90	45091	No
48	GOM_TRA_1PNPDE20101015_051138_000000452093_00449_45092_2290.N1	15-OCT-2010 05:11:38	Dark	45.000	161	Tau Pup	2.9310	4500.0	90	45092	No
49	GOM_TRA_1PNPDE20101015_051259_000000562093_00449_45092_2291.N1	15-OCT-2010 05:12:59	Dark	56.000	2	Alp Car	-0.73600	7000.0	112	45092	No
50	GOM_TRA_1PNPDE20101015_052450_000000462093_00449_45092_2292.N1	15-OCT-2010 05:24:50	Straylight	46.000	157	The1Eri	2.9060	9300.0	92	45092	No
51	GOM_TRA_1PNPDE20101015_054648_000000472093_00449_45092_2293.N1	15-OCT-2010 05:46:48	Bright	47.000	105	6Bet Ari	2.6450	8900.0	94	45092	No
52	GOM_TRA_1PNPDE20101015_055010_000000422093_00449_45092_2294.N1	15-OCT-2010 05:50:10	Bright	42.000	53	43Bet And	2.0480	3300.0	84	45092	No
53	GOM_TRA_1PNPDE20101015_055153_000000472093_00449_45092_2295.N1	15-OCT-2010 05:51:53	Bright	46.500	173	4Bet Tri	3.0040	8900.0	93	45092	No
54	GOM_TRA_1PNPDE20101015_055343_000000472093_00449_45092_2296.N1	15-OCT-2010 05:53:43	Bright	46.500	73	57Gam1And	2.2600	13100.	93	45092	No
55	GOM_TRA_1PNPDE20101015_055701_000000382093_00449_45092_2297.N1	15-OCT-2010 05:57:01	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	45092	No
56	GOM_TRA_1PNPDE20101015_055903_000000472093_00449_45092_2298.N1	15-OCT-2010 05:59:03	Bright	47.000	160	23Gam Per	2.9300	4700.0	94	45092	No
57	GOM_TRA_1PNPDE20101015_203018_000000482093_00458_45101_2356.N1	15-OCT-2010 20:30:18	Straylight	47.500	157	The1Eri	2.9060	9300.0	95	45101	No
58	GOM_TRA_1PNPDE20101015_205206_000000482093_00458_45101_2357.N1	15-OCT-2010 20:52:06	Bright	48.000	105	6Bet Ari	2.6450	8900.0	96	45101	No
59	GOM_TRA_1PNPDE20101015_205530_000000412093_00458_45101_2358.N1	15-OCT-2010 20:55:30	Bright	40.500	53	43Bet And	2.0480	3300.0	81	45101	No
60	GOM_TRA_1PNPDE20101015_205709_000000462093_00458_45101_2359.N1	15-OCT-2010 20:57:09	Bright	46.000	173	4Bet Tri	3.0040	8900.0	92	45101	No
61	GOM_TRA_1PNPDE20101015_205901_000000482093_00458_45101_2360.N1	15-OCT-2010 20:59:01	Bright	48.000	73	57Gam1And	2.2600	13100.	96	45101	No
62	GOM_TRA_1PNPDE20101015_210223_000000392093_00458_45101_2361.N1	15-OCT-2010 21:02:23	Bright	38.500	76	27Gam Cas	2.3000	30000.	77	45101	No
63	GOM_TRA_1PNPDE20101015_210419_000000492093_00458_45101_2362.N1	15-OCT-2010 21:04:19	Bright	49.000	160	23Gam Per	2.9300	4700.0	98	45101	No
64	GOM_TRA_1PNPDE20101015_213008_000000432093_00458_45101_2363.N1	15-OCT-2010 21:30:08	Bright	42.500	166	17Eps Leo	2.9800	6000.0	85	45101	No
65	GOM_TRA_1PNPDE20101015_213324_000000532093_00458_45101_2364.N1	15-OCT-2010 21:33:24	Bright	53.000	22	32Alp Leo	1.3600	15200.	106	45101	No
66	GOM_TRA_1PNPDE20101015_214046_000000592093_00458_45101_2381.N1	15-OCT-2010 21:40:46	Dark	59.000	48	30Alp Hya	1.9770	4100.0	118	45101	No
67	GOM_TRA_1PNPDE20101015_214939_000000522093_00458_45101_2382.N1	15-OCT-2010 21:49:39	Dark	51.500	132	15Rho Pup	2.8030	6900.0	103	45101	No
68	GOM_TRA_1PNPDE20101015_215746_000000442093_00459_45102_2383.N1	15-OCT-2010 21:57:46	Dark	44.000	161	Tau Pup	2.9310	4500.0	88	45102	No

69	GOM_TRA_1PNPDE20101015_215906_000000492093_00459_45102_2384.N1	15-OCT-2010 21:59:06	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	45102	No
70	GOM_TRA_1PNPDE20101015_221054_000000442093_00459_45102_2385.N1	15-OCT-2010 22:10:54	Straylight	44.000	157	The1Eri	2.9060	9300.0	88	45102	No
71	GOM_TRA_1PNPDE20101015_223242_000000462093_00459_45102_2386.N1	15-OCT-2010 22:32:42	Bright	45.500	105	6Bet Ari	2.6450	8900.0	91	45102	No
72	GOM_TRA_1PNPDE20101015_223605_000000422093_00459_45102_2387.N1	15-OCT-2010 22:36:05	Bright	41.500	53	43Bet And	2.0480	3300.0	83	45102	No
73	GOM_TRA_1PNPDE20101015_223745_000000472093_00459_45102_2388.N1	15-OCT-2010 22:37:45	Bright	46.500	173	4Bet Tri	3.0040	8900.0	93	45102	No
74	GOM_TRA_1PNPDE20101015_223936_000000492093_00459_45102_2389.N1	15-OCT-2010 22:39:36	Bright	48.500	73	57Gam1And	2.2600	13100.	97	45102	No
75	GOM_TRA_1PNPDE20101015_224258_000000382093_00459_45102_2390.N1	15-OCT-2010 22:42:58	Bright	38.000	76	27Gam Cas	2.3000	30000.	76	45102	No
76	GOM_TRA_1PNPDE20101015_224454_000000482093_00459_45102_2391.N1	15-OCT-2010 22:44:54	Bright	47.500	160	23Gam Per	2.9300	4700.0	95	45102	No
77	GOM_TRA_1PNPDE20101015_231044_000000412093_00459_45102_2392.N1	15-OCT-2010 23:10:44	Bright	41.000	166	17Eps Leo	2.9800	6000.0	82	45102	No
78	GOM_TRA_1PNPDE20101015_231400_000000402093_00459_45102_2393.N1	15-OCT-2010 23:14:00	Bright	40.000	22	32Alp Leo	1.3600	15200.	80	45102	No
79	GOM_TRA_1PNPDE20101015_232123_000000462093_00459_45102_2401.N1	15-OCT-2010 23:21:23	Dark	45.500	48	30Alp Hya	1.9770	4100.0	91	45102	No
80	GOM_TRA_1PNPDE20101015_233016_000000552093_00459_45102_2402.N1	15-OCT-2010 23:30:16	Dark	54.500	132	15Rho Pup	2.8030	6900.0	109	45102	No
81	GOM_TRA_1PNPDE20101015_233316_000000452093_00459_45102_2403.N1	15-OCT-2010 23:33:16	Dark	45.000	70	Zet Pup	2.2460	39000.	90	45102	No
82	GOM_TRA_1PNPDE20101015_233822_000000442093_00460_45103_2404.N1	15-OCT-2010 23:38:22	Dark	43.500	161	Tau Pup	2.9310	4500.0	87	45103	No
83	GOM_TRA_1PNPDE20101015_233943_000000572093_00460_45103_2405.N1	15-OCT-2010 23:39:43	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	45103	No
84	GOM_TRA_1PNPDE20101015_235130_000000462093_00460_45103_2406.N1	15-OCT-2010 23:51:30	Straylight	45.500	157	The1Eri	2.9060	9300.0	91	45103	No

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



4. Overview of dark signal processing per product

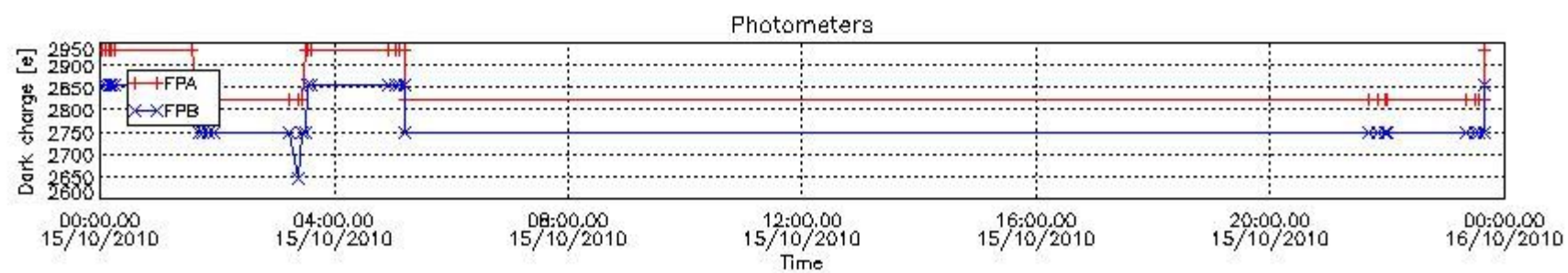
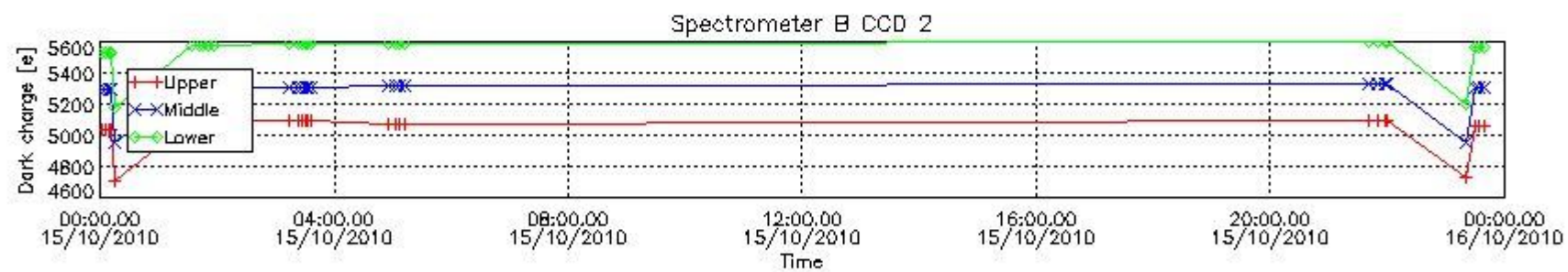
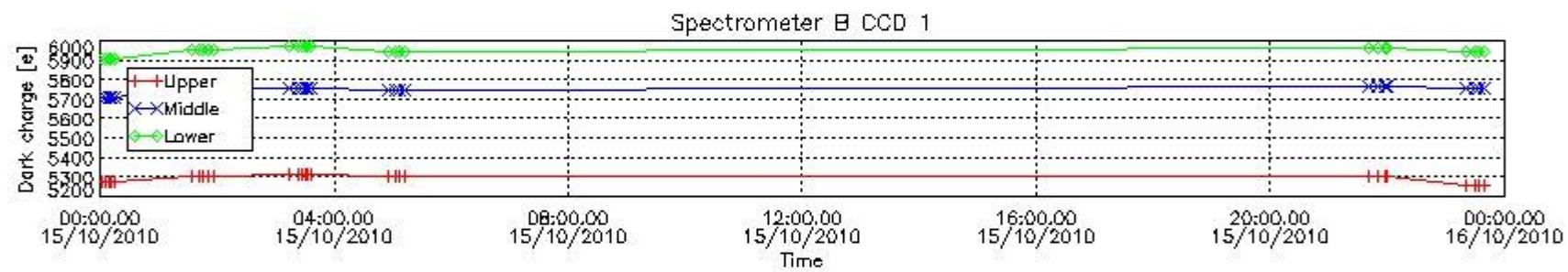
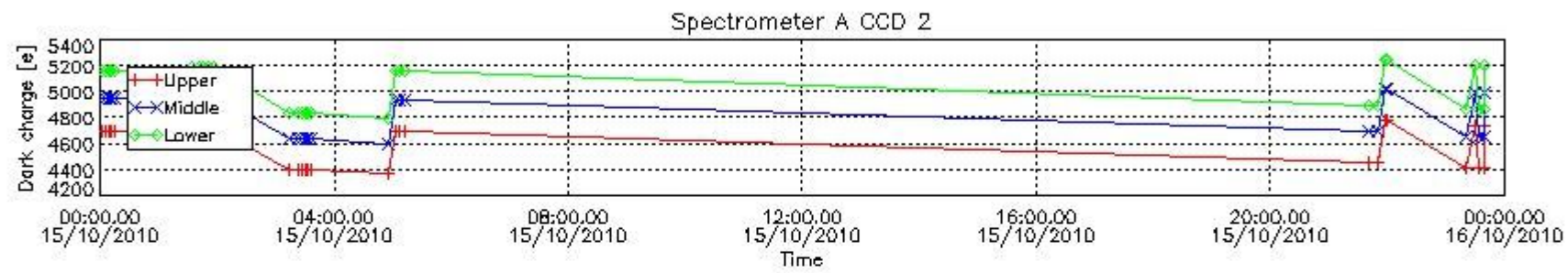
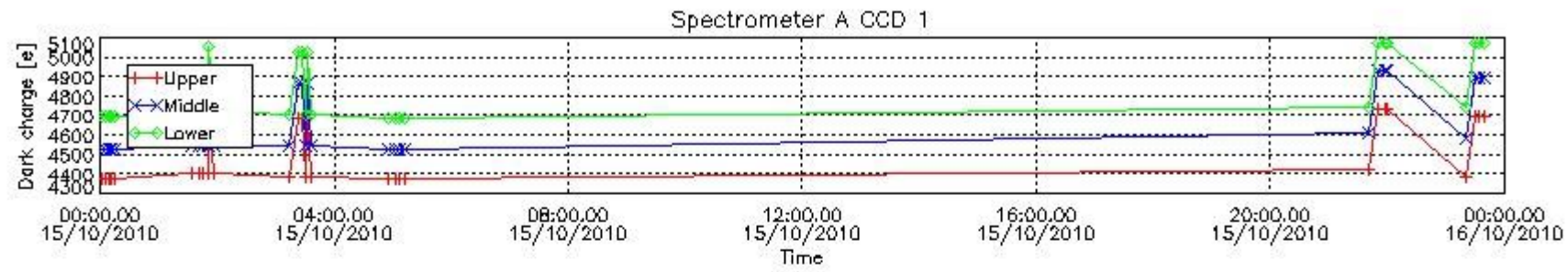
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20101015_203018_000000482093_00458_45101_2356.N1	DC map used
GOM_TRA_1PNPDE20101015_205206_000000482093_00458_45101_2357.N1	DC map used
GOM_TRA_1PNPDE20101015_205530_000000412093_00458_45101_2358.N1	DC map used
GOM_TRA_1PNPDE20101015_205709_000000462093_00458_45101_2359.N1	DC map used
GOM_TRA_1PNPDE20101015_205901_000000482093_00458_45101_2360.N1	DC map used
GOM_TRA_1PNPDE20101015_210223_000000392093_00458_45101_2361.N1	DC map used
GOM_TRA_1PNPDE20101015_210419_000000492093_00458_45101_2362.N1	DC map used
GOM_TRA_1PNPDE20101015_213008_000000432093_00458_45101_2363.N1	DC map used
GOM_TRA_1PNPDE20101015_213324_000000532093_00458_45101_2364.N1	DC map used

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



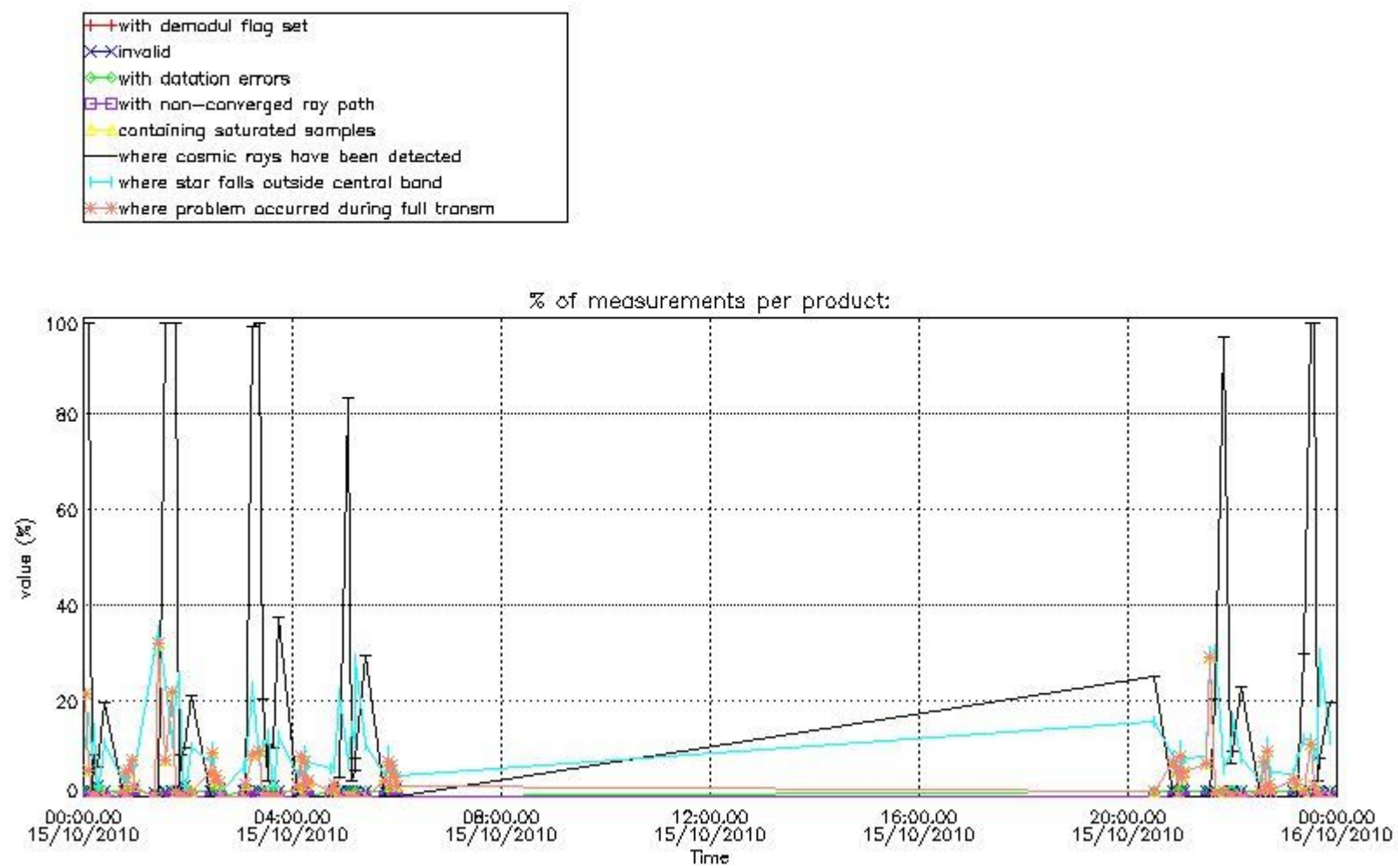
5. Demodulation flag and quality information monitoring

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.

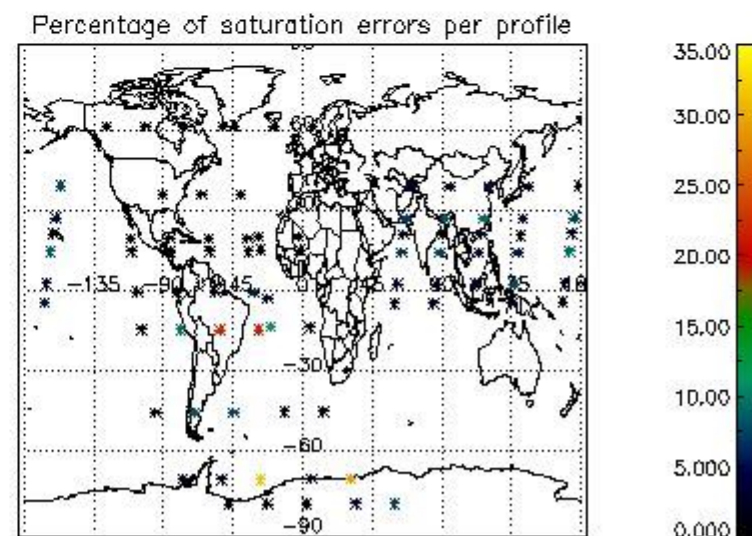
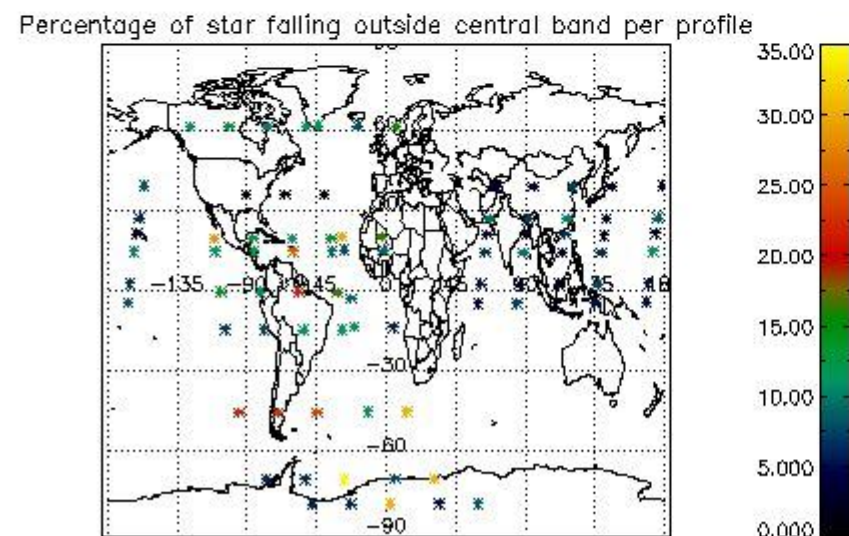
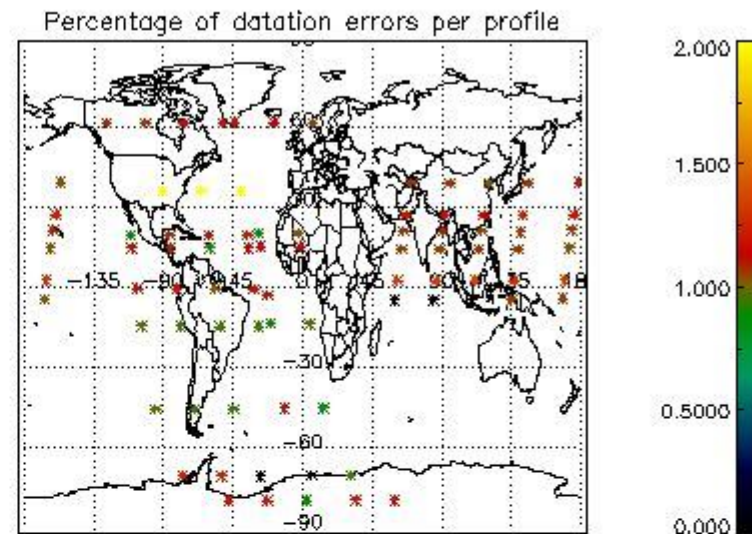
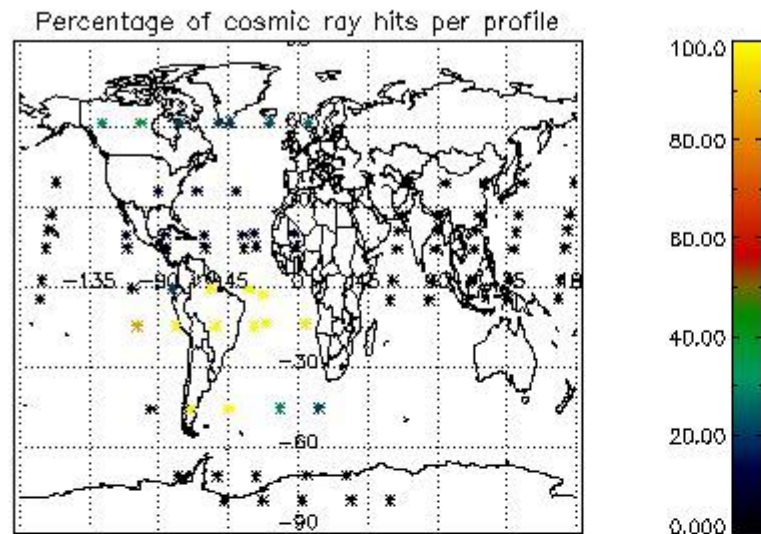
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	41.6667 %
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)



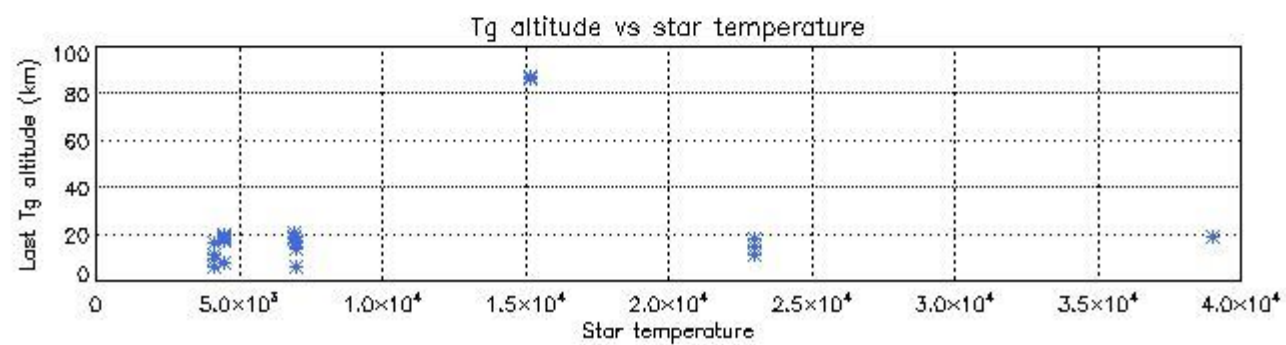
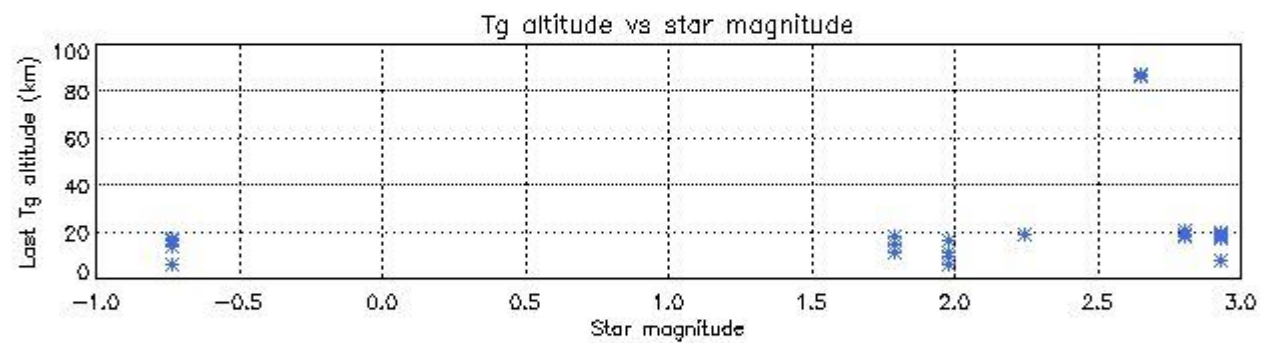
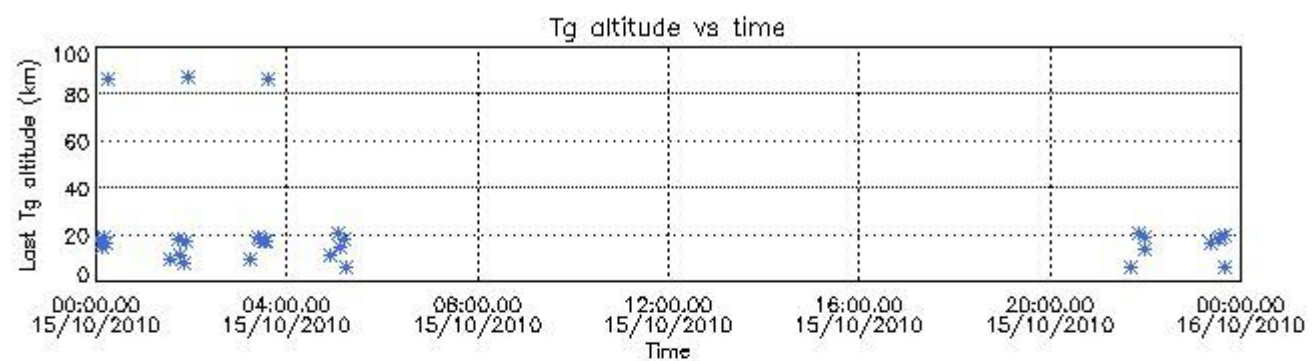
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	21.918	20.000	NaN
St. deviation:	21.964	4.3492	NaN
Maximum:	86.802	25.919	NaN
Minimum:	5.6005	4.3859	NaN
Number of data:	31.000	46.000	NaN

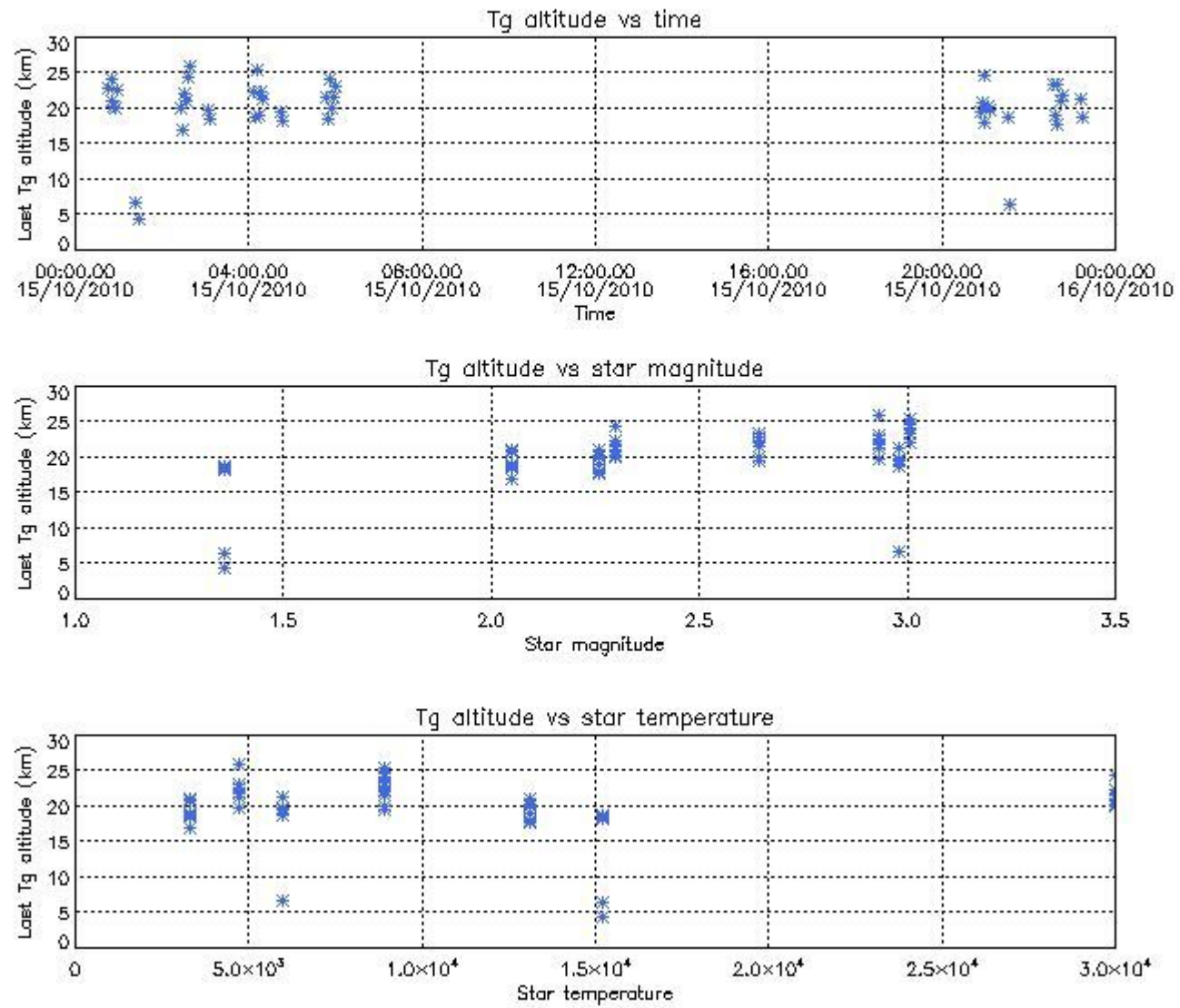
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

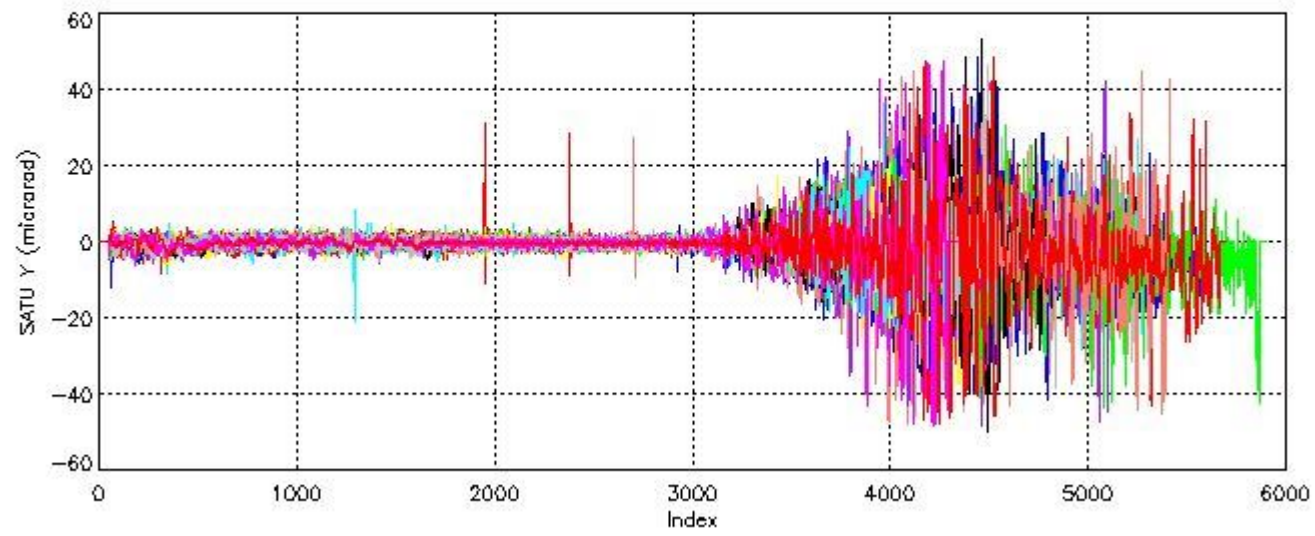
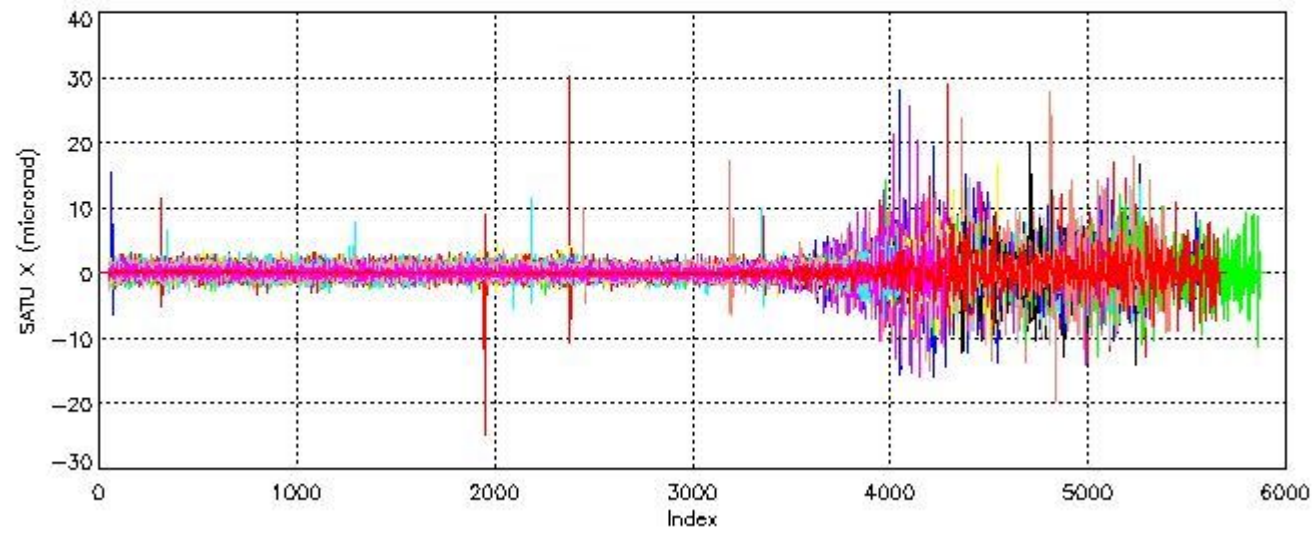


7. Star Acquisition and Tracking Unit (SATU)

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:	0.19104	-0.47594	0.18892	-0.45649
St. deviation:	0.53160	1.1431	0.78880	1.3469
Maximum:	15.300	5.5000	5.6000	7.0000
Minimum:	-6.3000	-12.000	-5.4000	-8.5000

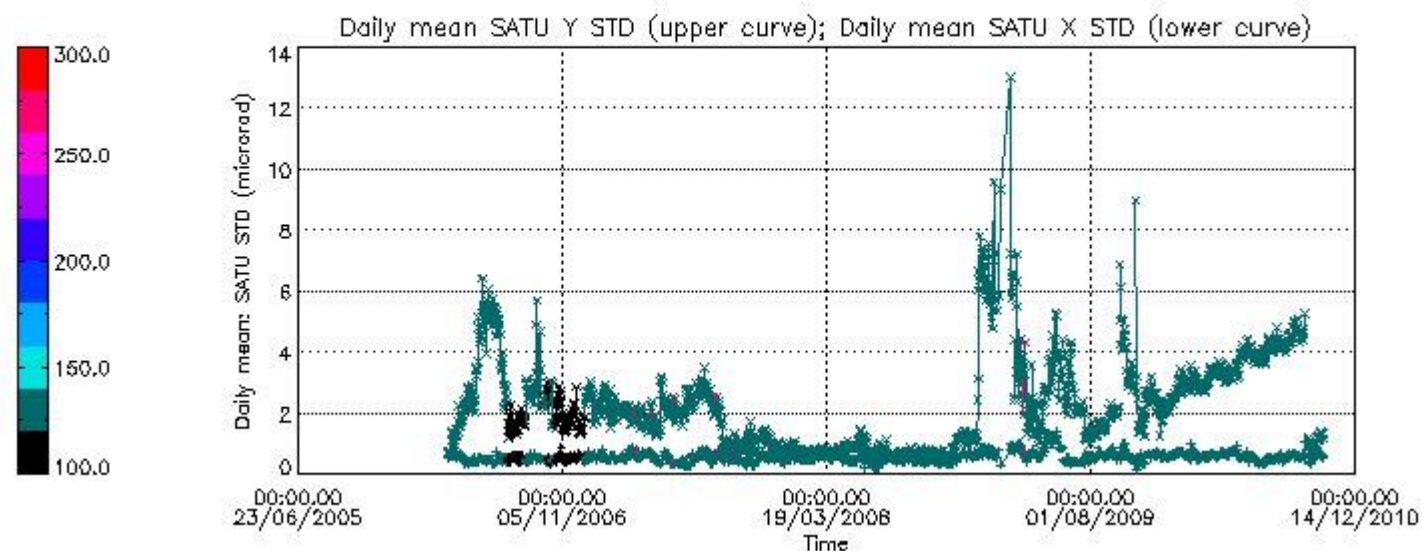
Number of data:	33450.	33450.	49500.	49500.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

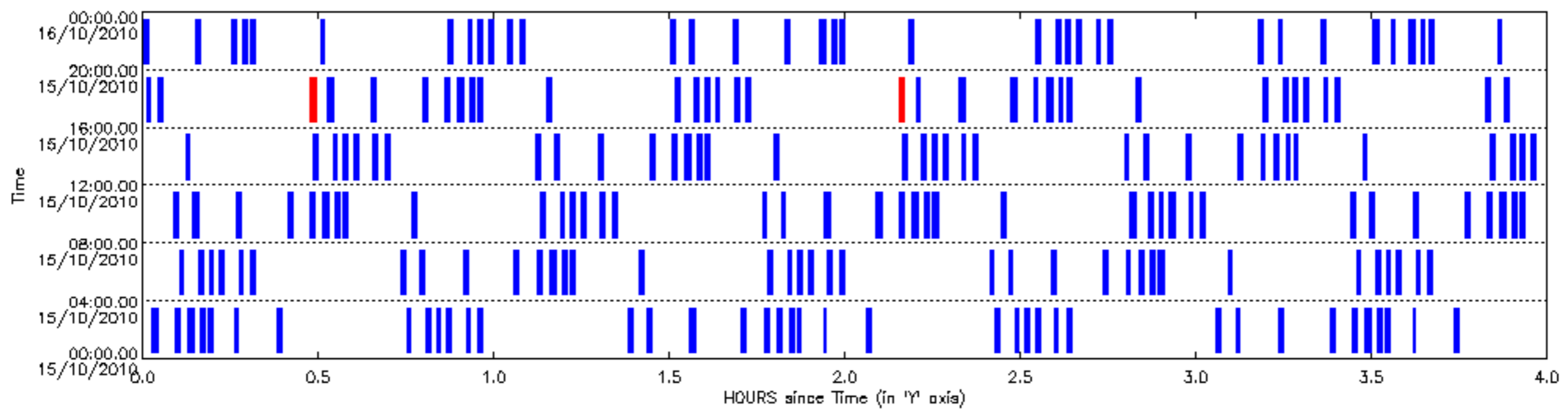
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

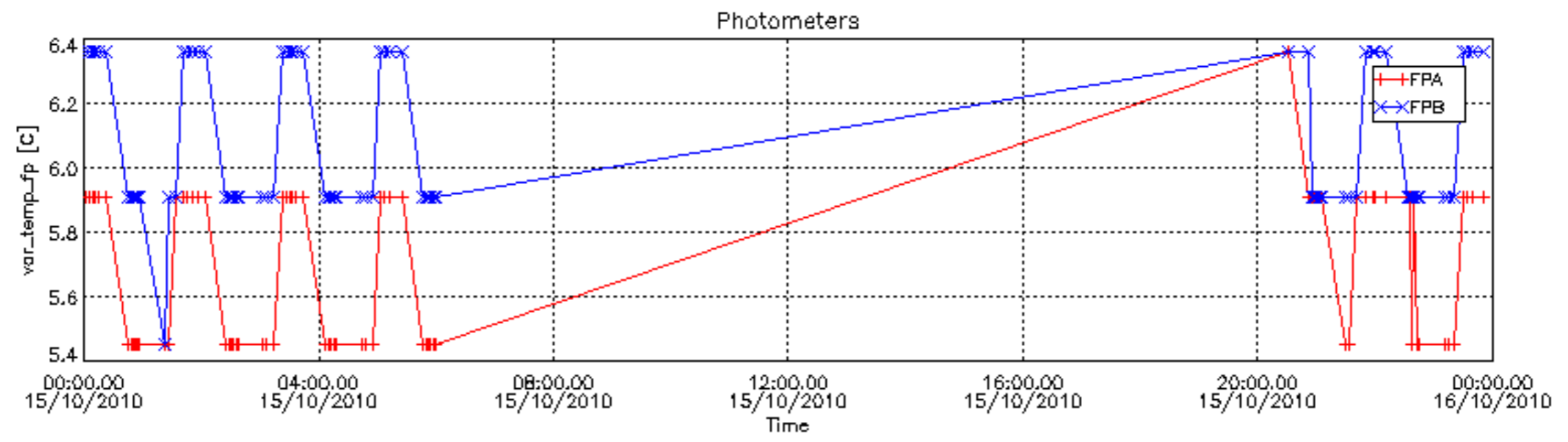
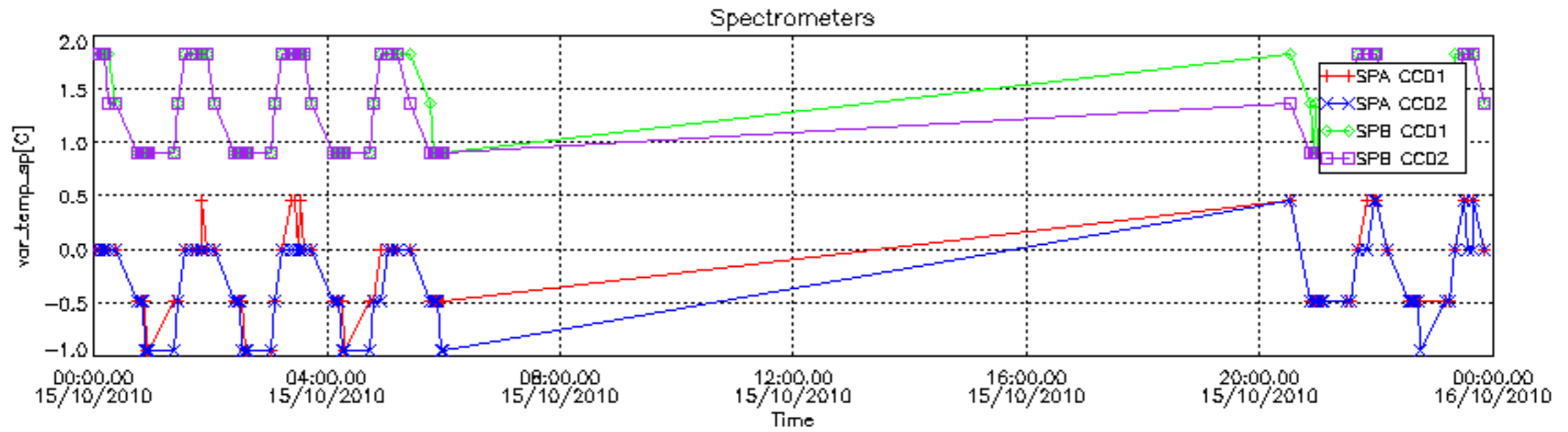


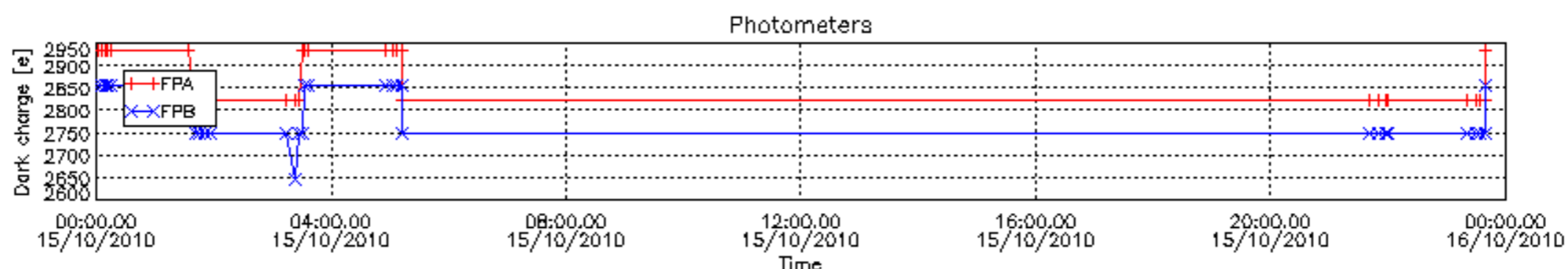
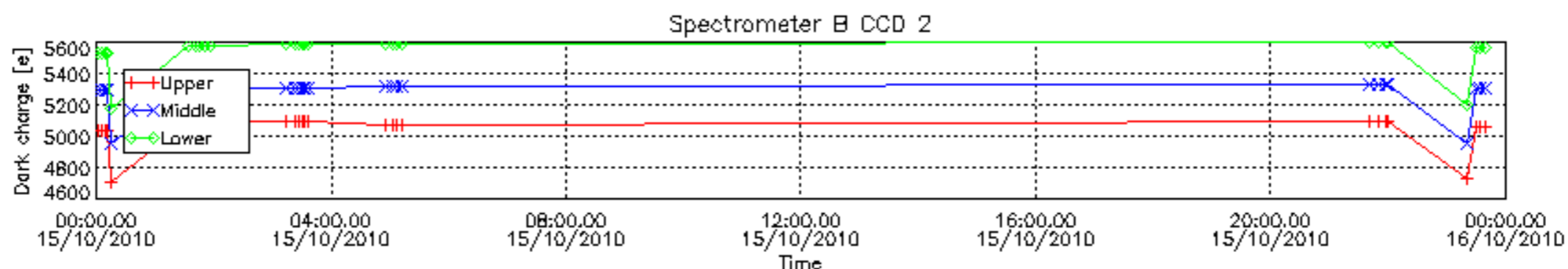
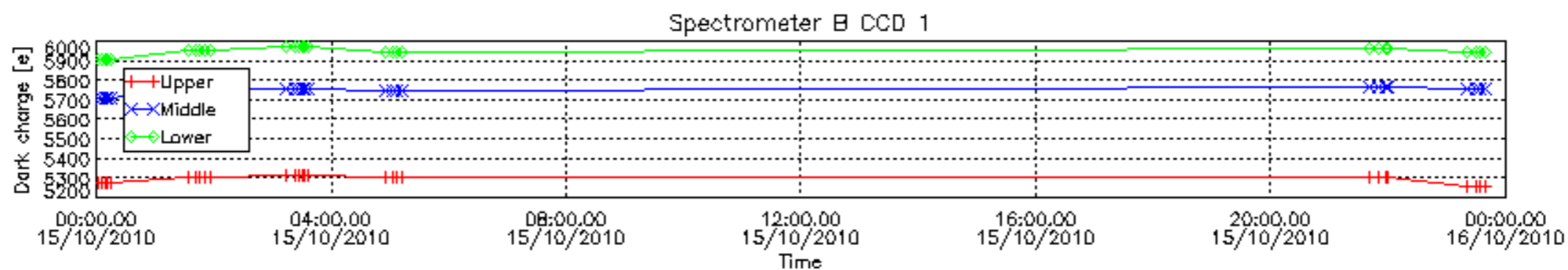
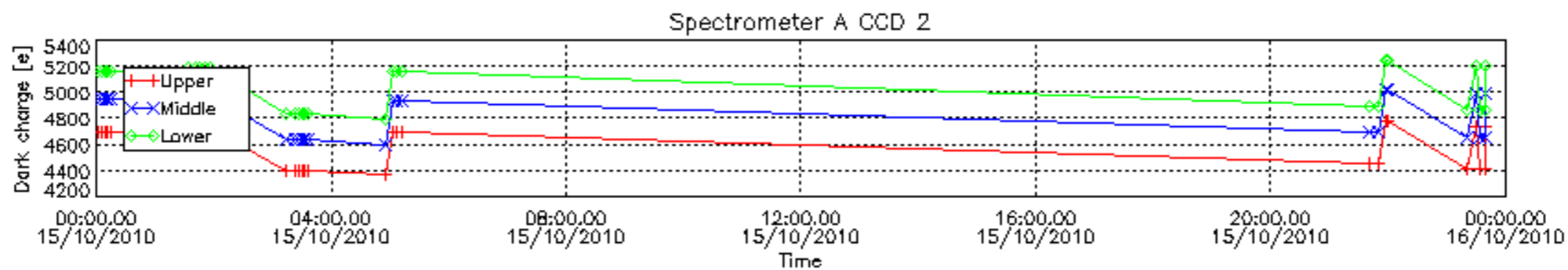
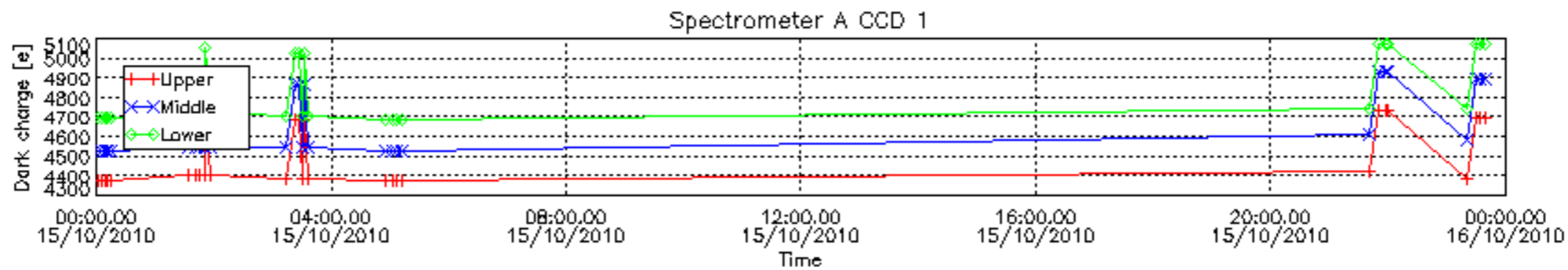
8. Auxiliary Data Files used for the production reported in section 2.4

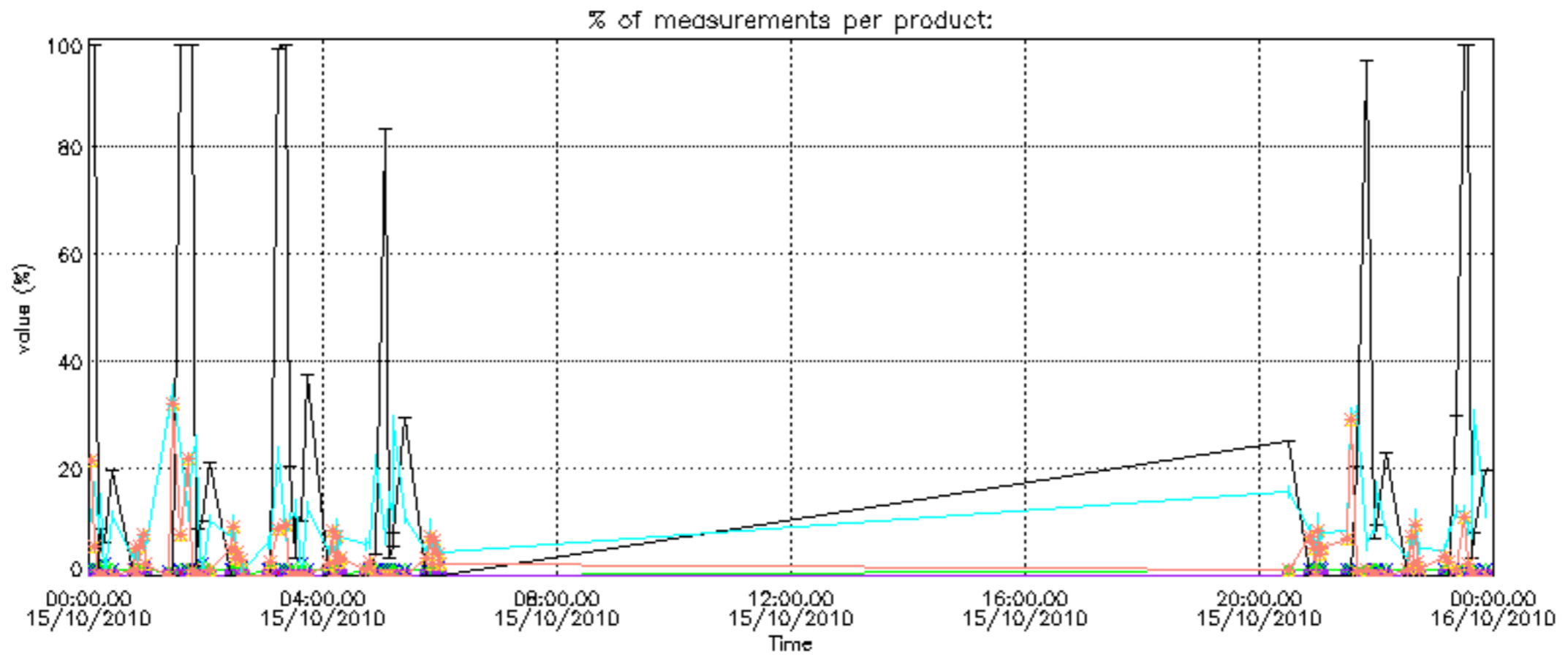
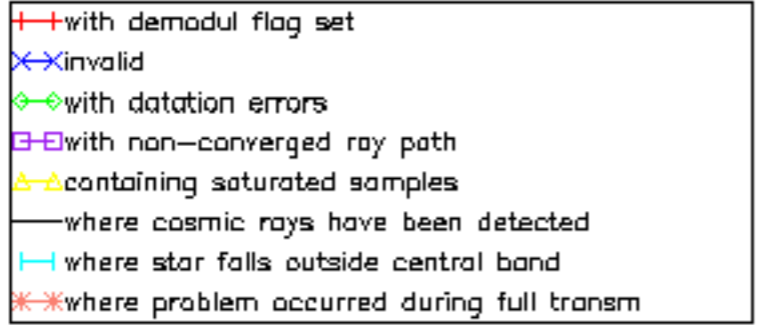
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	15-OCT-2010 00:01:36
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20101011_092457_20101009_000000_20500101_000000	1	15-OCT-2010 00:01:36
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	15-OCT-2010 00:01:36
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	15-OCT-2010 00:01:36
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	15-OCT-2010 00:01:36
ECMWF_FILE	AUX_ECF_AXNECM20101014_054115_20101014_210000_20101015_090000	1	15-OCT-2010 00:01:36
ECMWF_FILE	AUX_ECF_AXNECM20101014_172115_20101015_030000_20101015_150000	28	15-OCT-2010 03:03:30
ECMWF_FILE	AUX_ECF_AXNECM20101015_053357_20101015_150000_20101016_030000	57	15-OCT-2010 20:30:18
ECMWF_FILE	AUX_ECF_AXNECM20101015_053357_20101015_210000_20101016_090000	66	15-OCT-2010 21:40:46
OPTIONAL_ECMWF_FILE	MISSING	1	15-OCT-2010 00:01:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101014_234941_000057382093_00445_45088_1748.N1	1	15-OCT-2010 00:01:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101015_013038_000038252093_00446_45089_1749.N1	15	15-OCT-2010 01:33:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101015_023943_000060572093_00447_45090_1750.N1	28	15-OCT-2010 03:03:30
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101015_042558_000057382093_00448_45091_1751.N1	43	15-OCT-2010 04:44:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101015_202739_000038252093_00458_45101_1752.N1	57	15-OCT-2010 20:30:18
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101015_213644_000057382093_00458_45101_1753.N1	66	15-OCT-2010 21:40:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20101015_231741_000057382093_00459_45102_1754.N1	79	15-OCT-2010 23:21:23

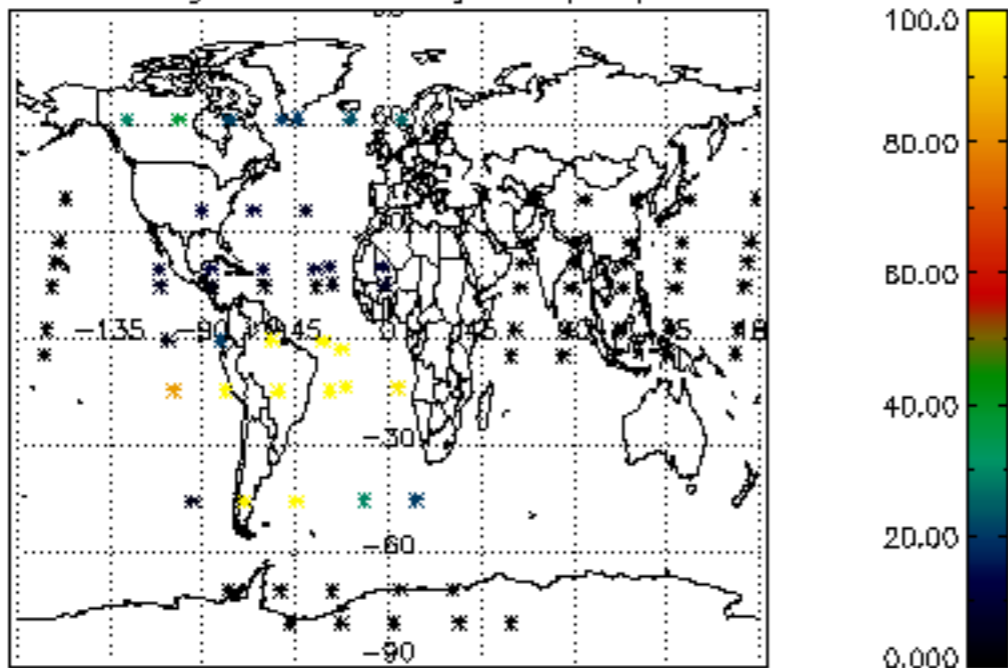




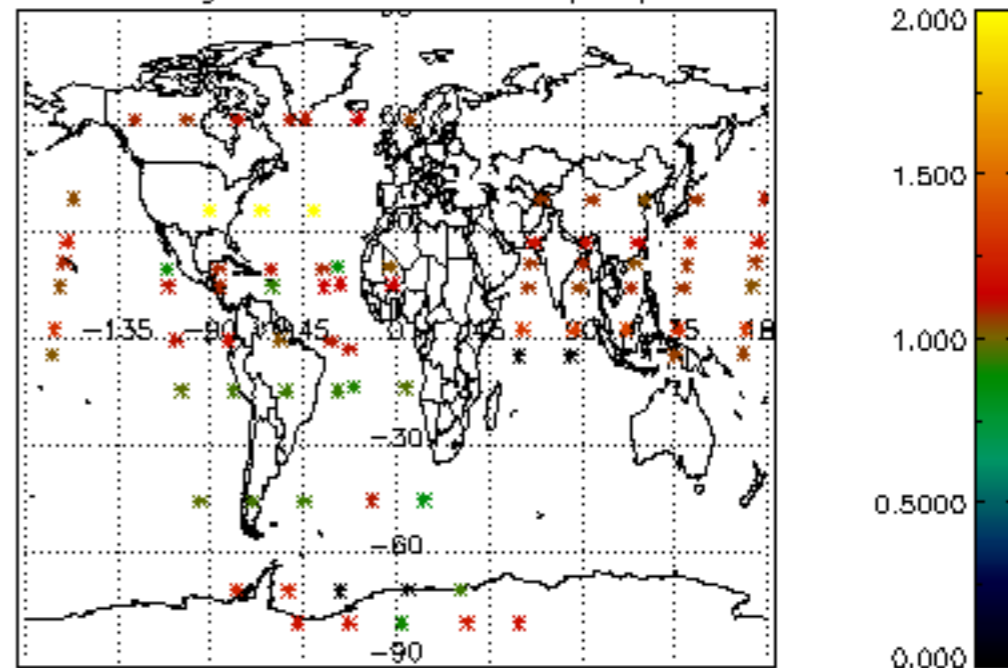




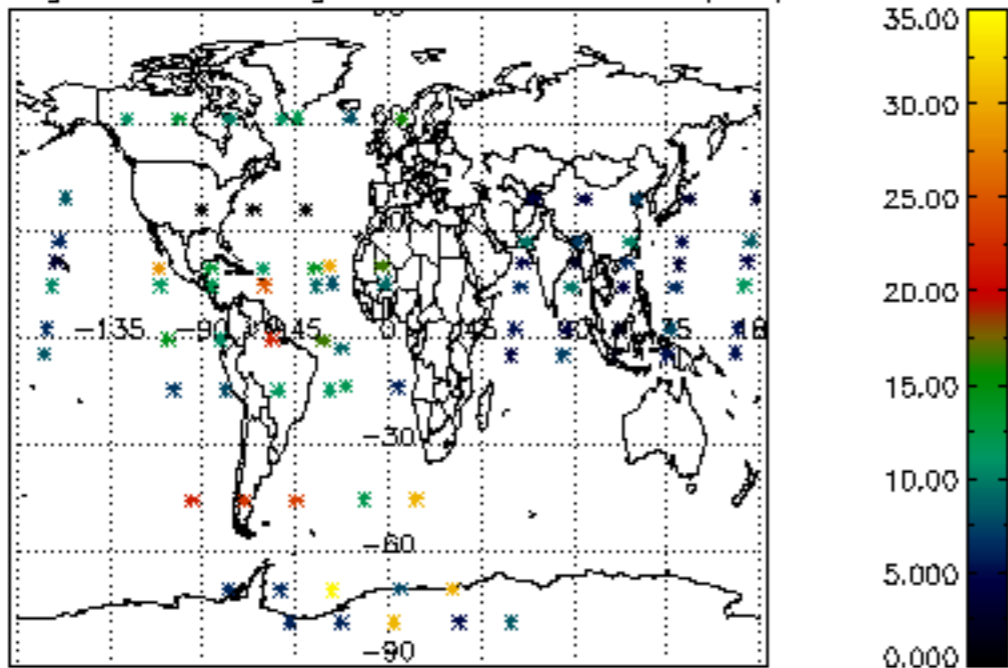
Percentage of cosmic ray hits per profile



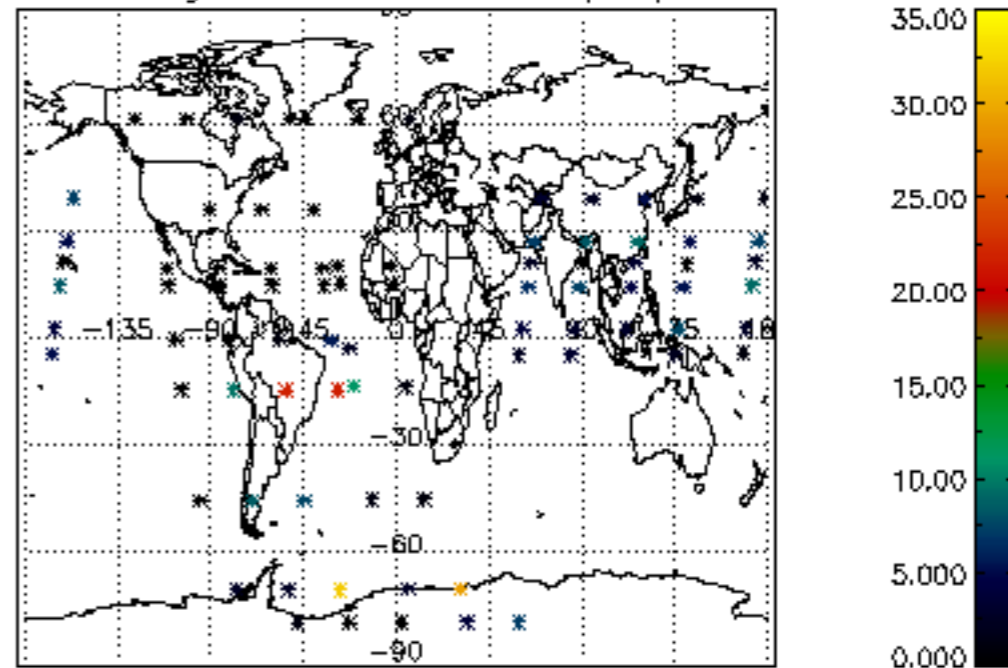
Percentage of datation errors per profile



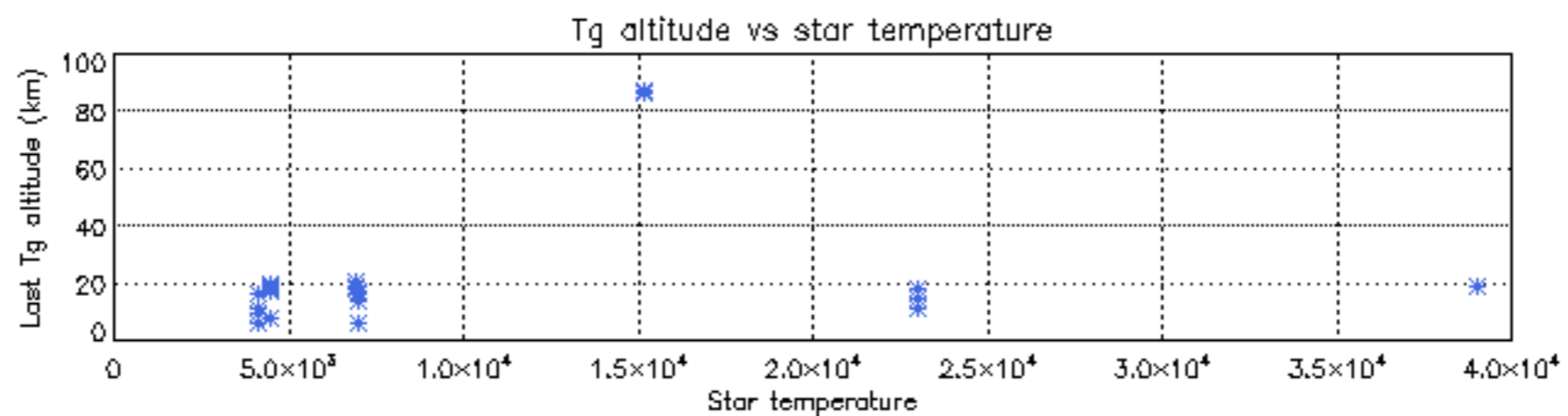
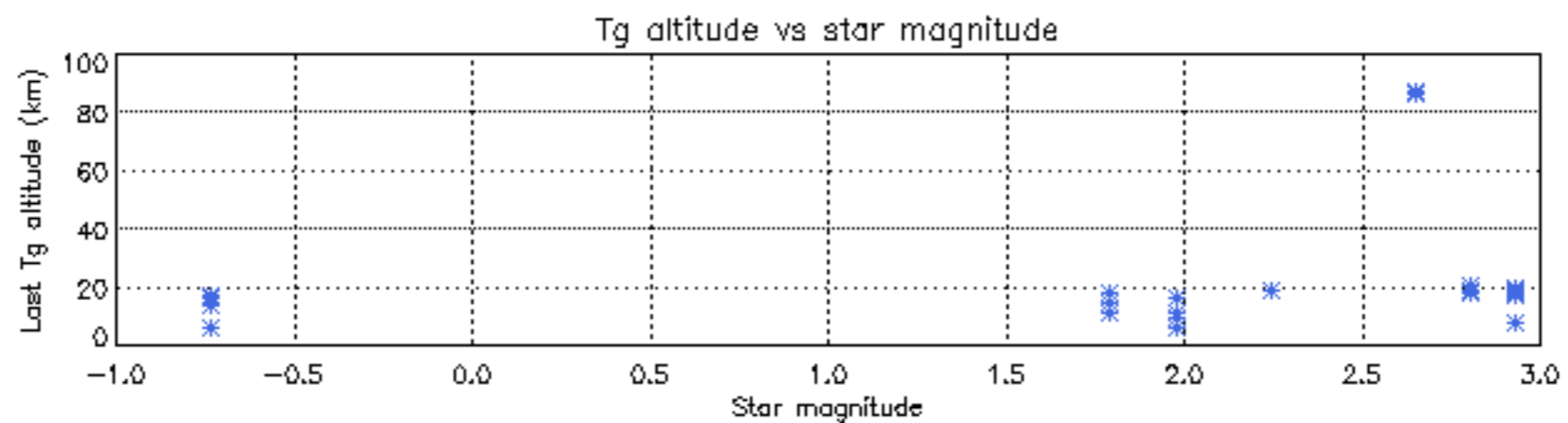
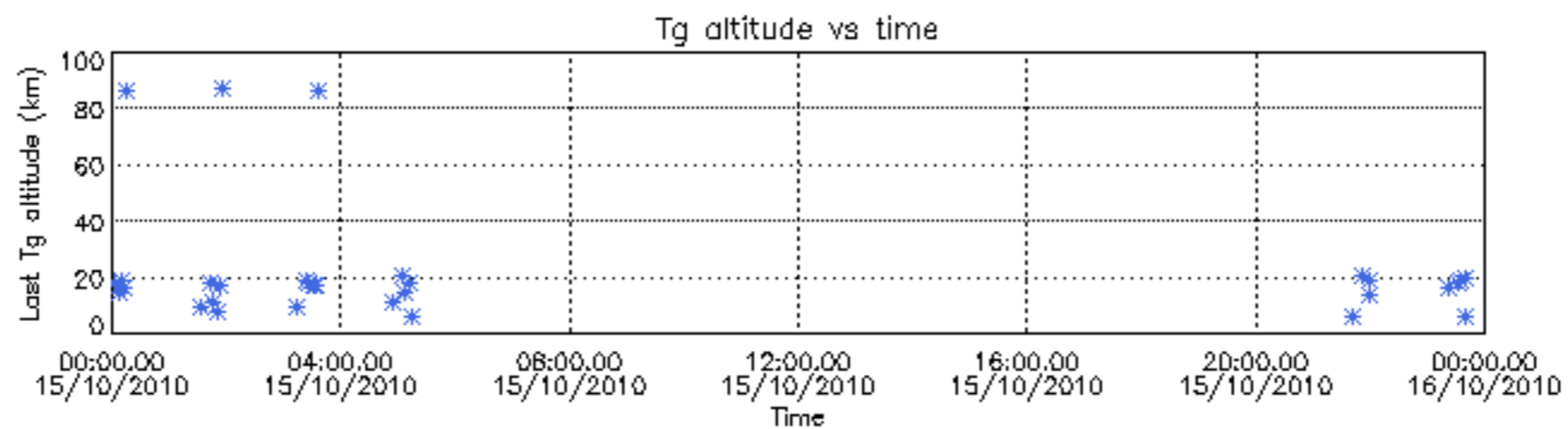
Percentage of star falling outside central band per profile



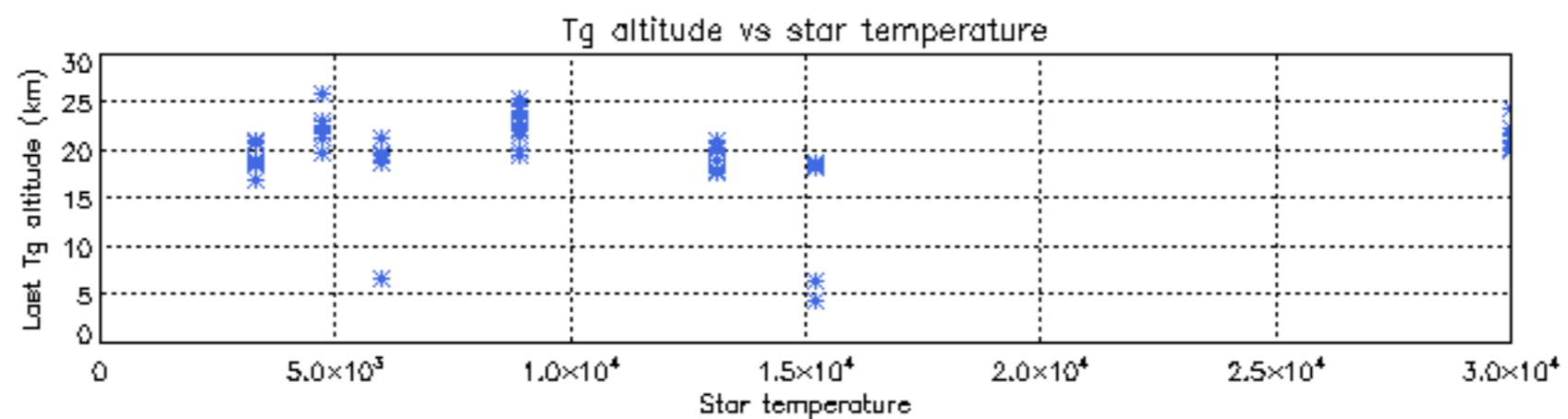
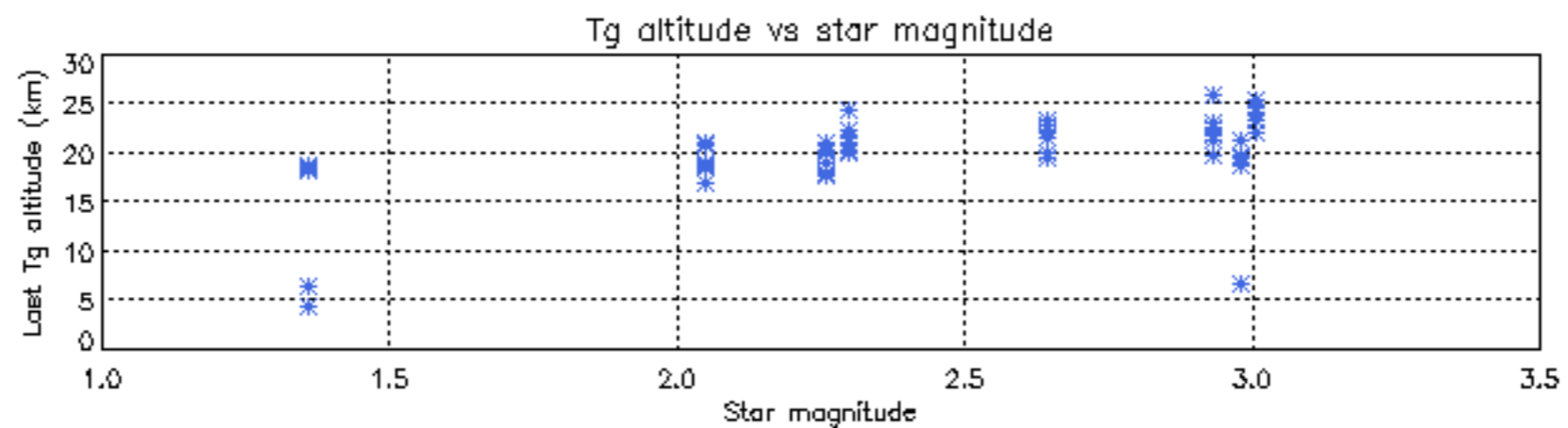
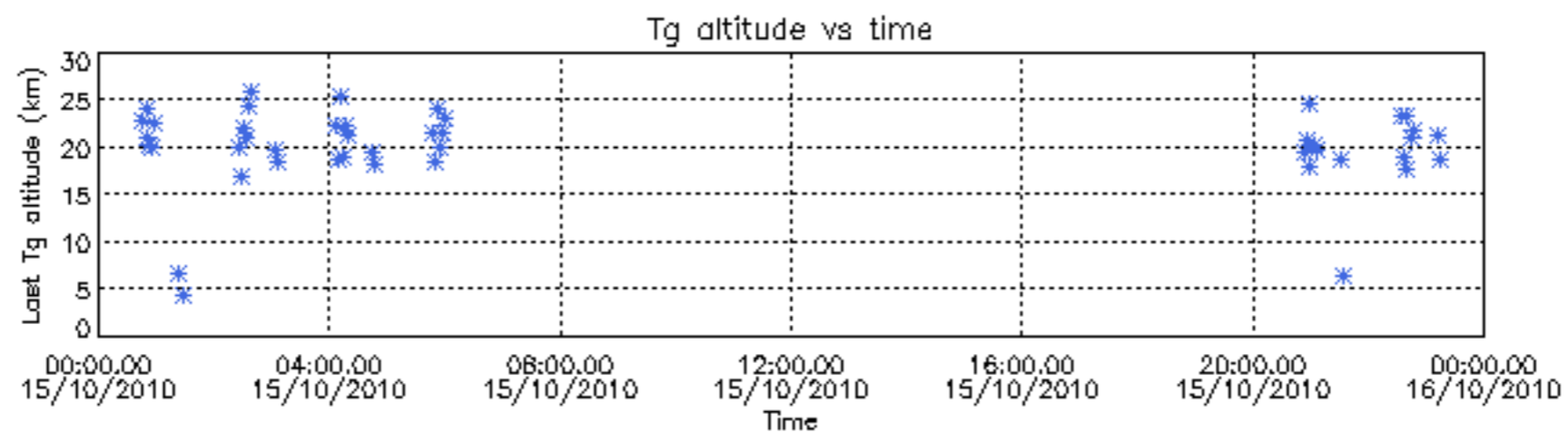
Percentage of saturation errors per profile

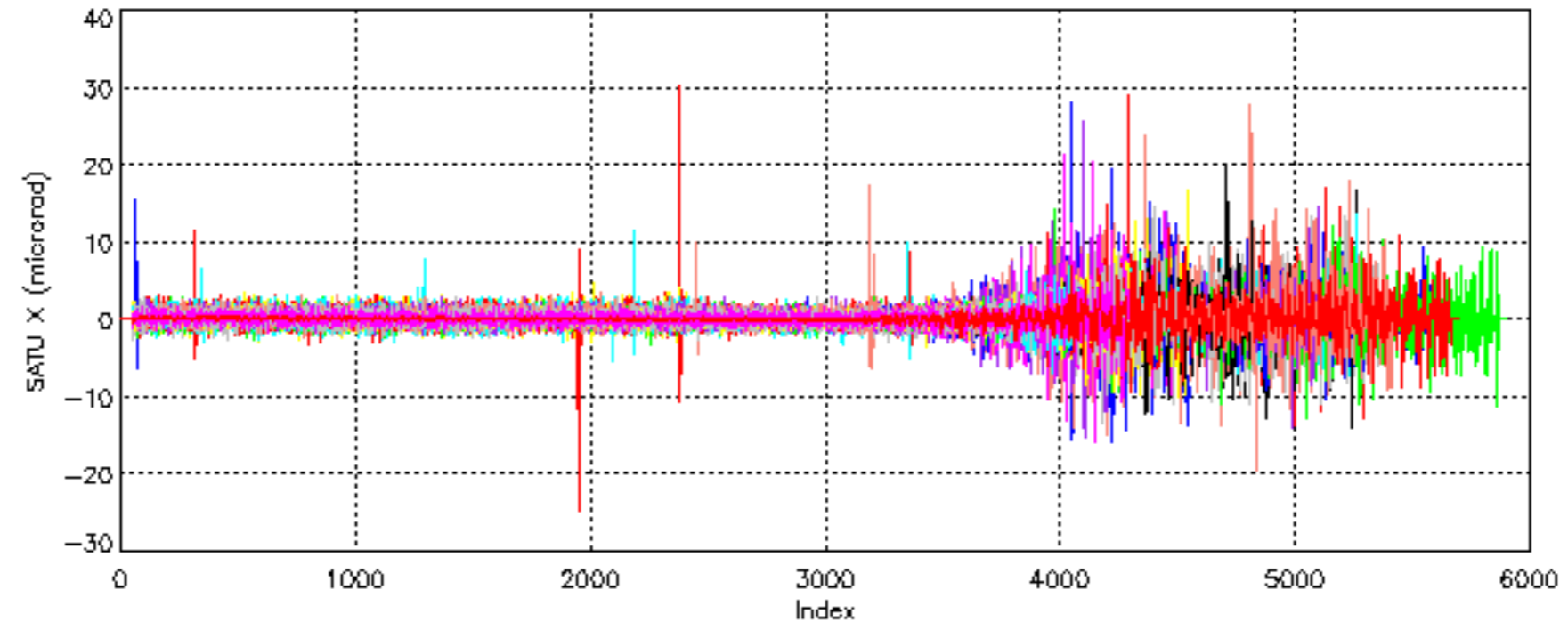


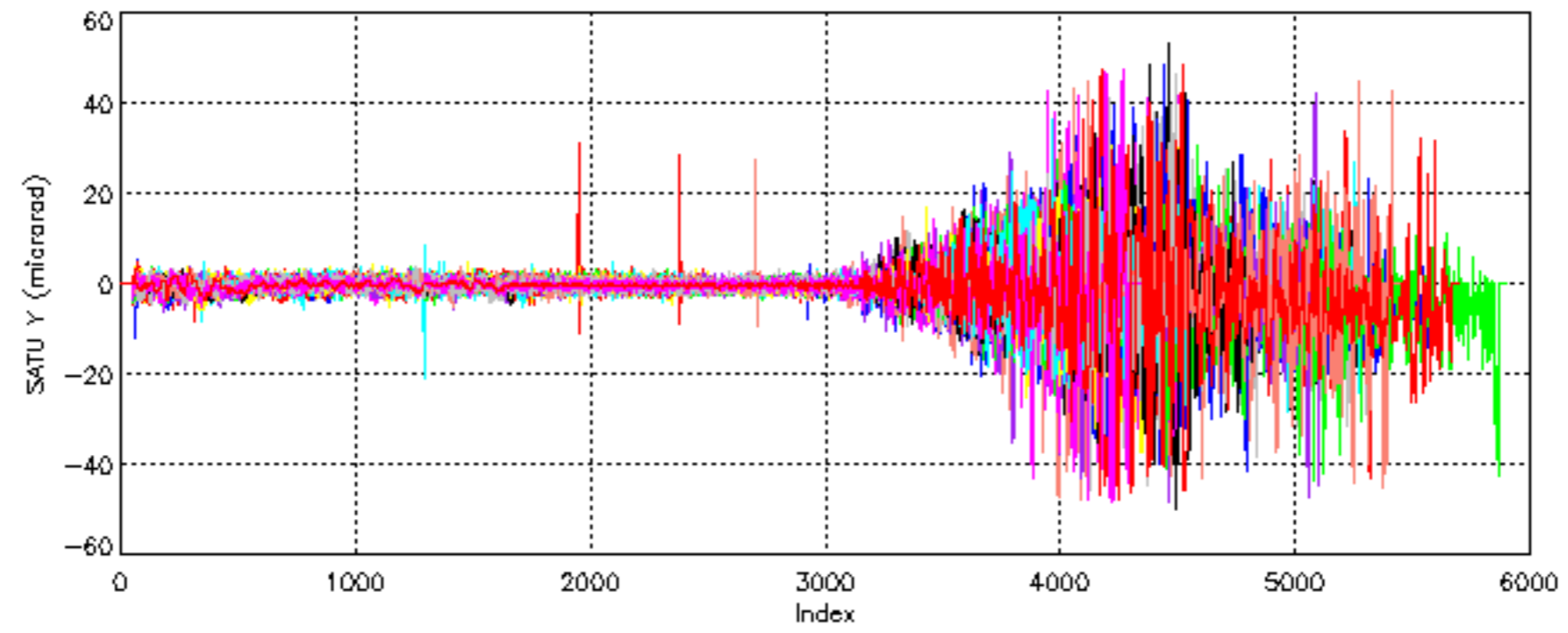
Tangent altitude at which the star is lost

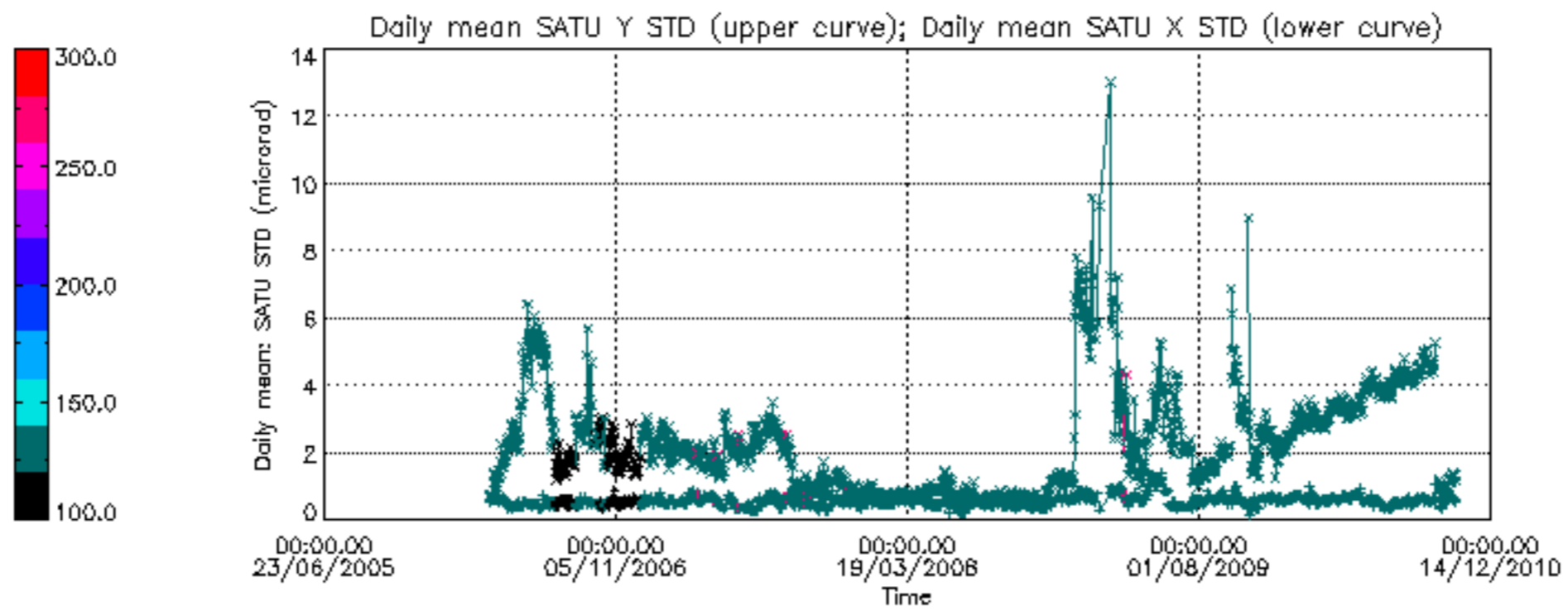


Tangent altitude at which the star is lost









/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
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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
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9; 5996.2; 01-OCT-2010 10:48:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44894
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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
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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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4; 2950.3; 01-OCT-2010 11:38:47; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;44895
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6; 4602.0; 01-OCT-2010 12:06:18; Bright; 71.5; 17; 78Bet Gem ; 1.16; 4500;occ; 143; 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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5; 179.5; 02-OCT-2010 01:57:59; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;44904
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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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 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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4; 2699.7; 11-OCT-2010 21:23:47; Bright; 50.5; 173; 4Bet Tri ; 3.00; 8900;occ; 101; 0;45044
5; 2805.2; 11-OCT-2010 21:25:33; Bright; 49.0; 73; 57Gam1And ; 2.26; 13100;occ; 98; 0;45044
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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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 8; 584.9; 14-OCT-2010 04:08:17; Dark ; 64.0; 108; Alp Col ; 2.65; 15200;occ; 128; 0;45077
 9; 1030.9; 14-OCT-2010 04:15:43; Dark ; 47.5; 157; The1Eri ; 2.91; 9300;occ; 95; 0;45077
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 13; 2782.3; 14-OCT-2010 04:44:55; Bright; 49.0; 73; 57Gam1And ; 2.26; 13100;occ; 98; 0;45077
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 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
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 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
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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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 6; 122.6; 15-OCT-2010 06:50:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45093
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3; 2660.0; 15-OCT-2010 09:13:03; Bright; 48.0; 173; 4Bet Tri ; 3.00; 8900;occ; 96; 0;45094
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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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13; 6286.3; 15-OCT-2010 11:54:05; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;45095
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4; 2769.7; 15-OCT-2010 12:36:04; Bright; 47.0; 73; 57Gam1And ; 2.26; 13100;occ; 94; 0;45096
5; 2969.0; 15-OCT-2010 12:39:24; Bright; 36.5; 76; 27Gam Cas ; 2.30; 30000;occ; 73; 0;45096
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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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5; 2982.0; 17-OCT-2010 08:15:11; Bright; 37.5; 110; 37Del Cas ; 2.68; 8900;occ; 75; 0;45122
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8; 4836.7; 17-OCT-2010 08:46:05; Bright; 58.0; 22; 32Alp Leo ; 1.36; 15200;occ; 116; 0;45122
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 8; 4848.2; 19-OCT-2010 12:44:50; Bright; 59.0; 22; 32Alp Leo ; 1.36; 15200;occ; 118; 0;45153
 9; 5310.8; 19-OCT-2010 12:52:33; Dark ; 54.0; 48; 30Alp Hya ; 1.98; 4100;occ; 108; 0;45153
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 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
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 5; 184.8; 20-OCT-2010 02:32:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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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6; 4853.4; 20-OCT-2010 10:32:42; Bright; 41.5; 22; 32Alp Leo ; 1.36; 15200;occ; 83; 0;45166
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3; 2728.1; 20-OCT-2010 11:37:53; Bright; 46.0; 73; 57Gam1And ; 2.26; 13100;occ; 92; 0;45167
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5; 4651.7; 20-OCT-2010 15:31:08; Bright; 45.0; 166; 17Eps Leo ; 2.98; 6000;occ; 90; 0;45169
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 5; 3024.1; 21-OCT-2010 16:12:59; Bright; 45.5; 160; 23Gam Per ; 2.93; 4700;occ; 91; 0;45184
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 4; 2719.0; 21-OCT-2010 17:48:30; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;45185
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