

GOMOS Daily Report 18-NOV-2009

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	20NOV2009 04:37:55
Data source version	GOMOS/5.00L03
Start time of products	18NOV2009 00:14:52
Stop time of products	18NOV2009 23:55:35
Store outputs in DB	Yes
Nb of level 1b prods	106
Nb of prods with errors	1

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

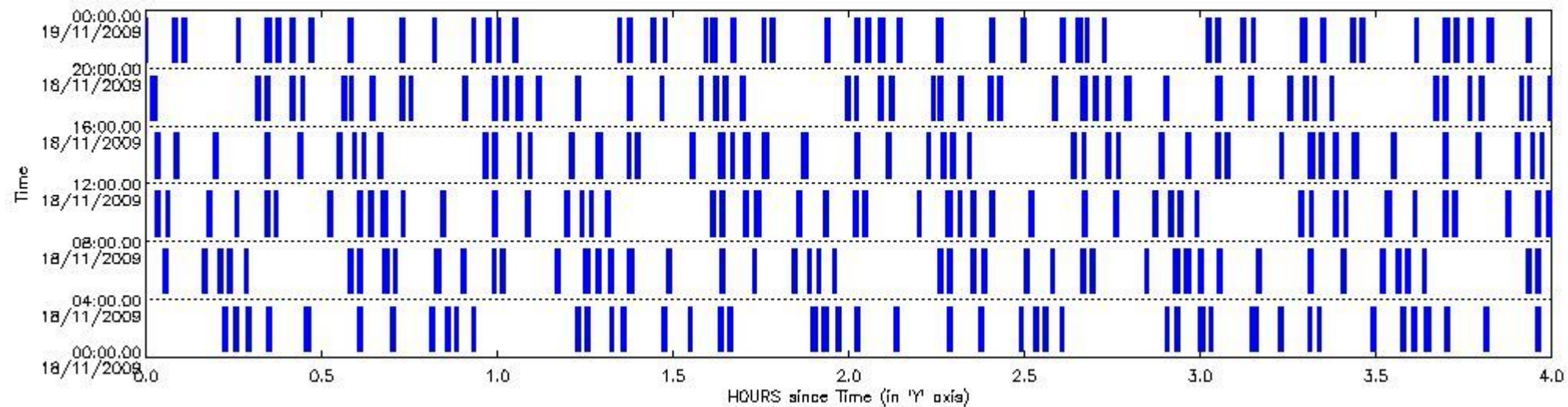
2.1 Level 0 products arrived in PCF (see template [here](#))

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.

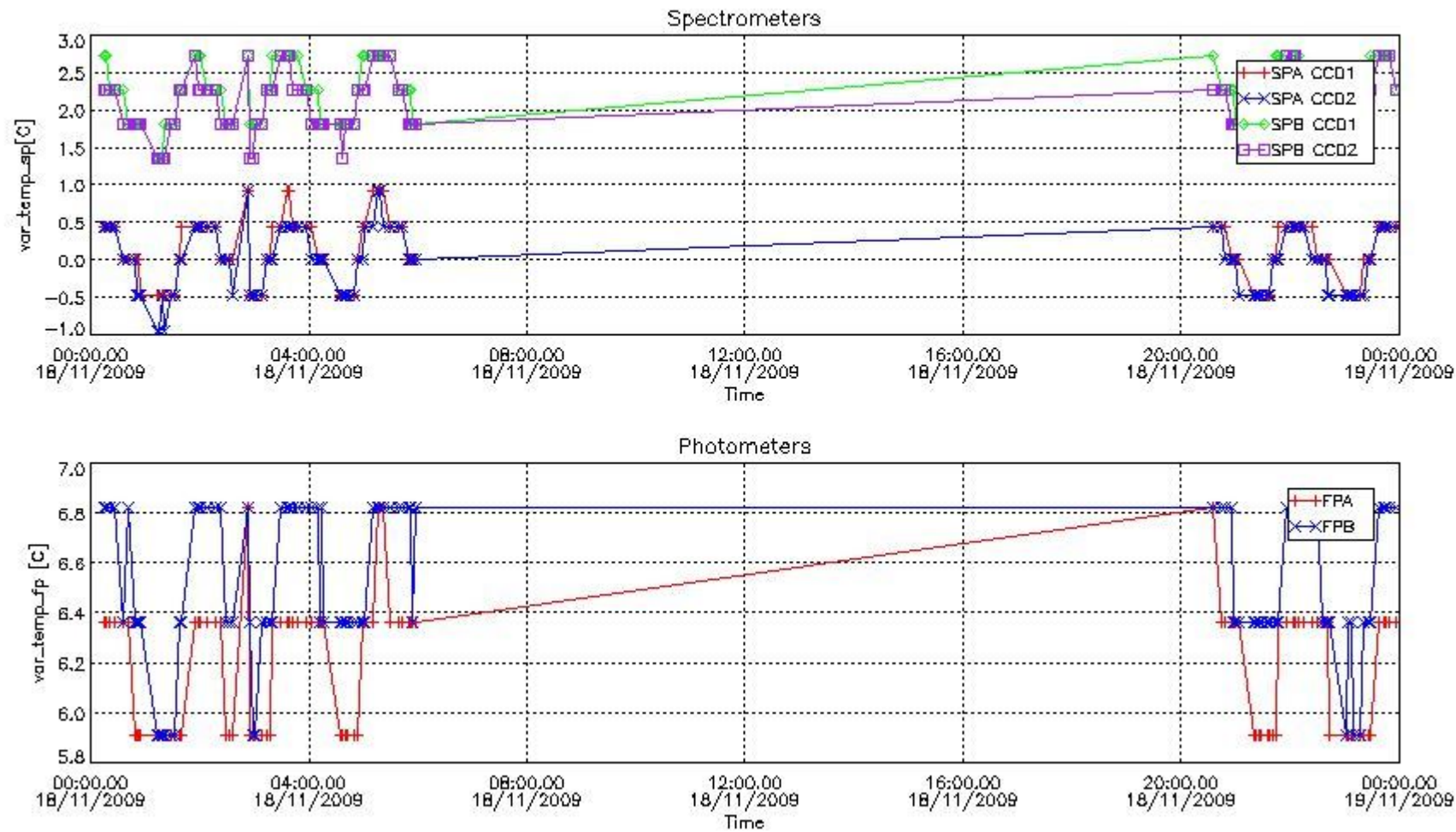
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20091118_001452_000000572084_00217_40351_3827.N1	18-NOV-2009 00:14:52	Dark	56.500	41	Eps Car	1.8600	4100.0	113	40351	No
2	GOM_TRA_1PNPDE20091118_001703_000000532084_00217_40351_3828.N1	18-NOV-2009 00:17:03	Dark	52.500	70	Zet Pup	2.2460	39000.	105	40351	No
3	GOM_TRA_1PNPDE20091118_002023_000000612084_00217_40351_3829.N1	18-NOV-2009 00:20:23	Dark	60.500	2	Alp Car	-0.73600	7000.0	121	40351	No
4	GOM_TRA_1PNPDE20091118_002704_000000542084_00217_40351_3830.N1	18-NOV-2009 00:27:04	Dark	53.500	108	Alp Col	2.6520	15200.	107	40351	No
5	GOM_TRA_1PNPDE20091118_003607_000000512084_00217_40351_3831.N1	18-NOV-2009 00:36:07	Straylight	50.500	165	34Gam Eri	2.9500	3200.0	101	40351	No
6	GOM_TRA_1PNPDE20091118_004138_000000472084_00217_40351_3832.N1	18-NOV-2009 00:41:38	Twilight_and_stray	46.500	94	92Alp Cet	2.5260	3100.0	93	40351	No
7	GOM_TRA_1PNPDE20091118_004826_000000432084_00217_40351_3833.N1	18-NOV-2009 00:48:26	Bright	43.000	146	25Eta Tau	2.8730	15200.	86	40351	No
8	GOM_TRA_1PNPDE20091118_005102_000000442084_00217_40351_3834.N1	18-NOV-2009 00:51:02	Bright	43.500	150	44Zet Per	2.8900	28000.	87	40351	No
9	GOM_TRA_1PNPDE20091118_005239_000000392084_00217_40351_3835.N1	18-NOV-2009 00:52:39	Bright	38.500	79	26Bet Per	2.3100	13100.	77	40351	No
10	GOM_TRA_1PNPDE20091118_005528_000000402084_00217_40351_3836.N1	18-NOV-2009 00:55:28	Bright	40.000	35	33Alp Per	1.7950	6250.0	80	40351	No
11	GOM_TRA_1PNPDE20091118_011319_000000472084_00217_40351_3837.N1	18-NOV-2009 01:13:19	Bright	46.500	36	50Alp UMa	1.8000	6300.0	93	40351	No
12	GOM_TRA_1PNPDE20091118_011457_000000452084_00217_40351_3838.N1	18-NOV-2009 01:14:57	Bright	45.000	82	48Bet UMa	2.3650	10600.	90	40351	No

13	GOM_TRA_1PNPDE20091118_011904_000000462084_00217_40351_3839.N1	18-NOV-2009 01:19:04	Bright	45.500	174	52Psi UMa	3.0040	4400.0	91	40351	No
14	GOM_TRA_1PNPDE20091118_012057_000000542084_00217_40351_3840.N1	18-NOV-2009 01:20:57	Bright	54.000	152	12Alp2CVn	2.8900	11000.	108	40351	No
15	GOM_TRA_1PNPDE20091118_012758_000000512084_00217_40351_3841.N1	18-NOV-2009 01:27:58	Bright	51.000	96	68Del Leo	2.5600	9300.0	102	40351	No
16	GOM_TRA_1PNPDE20091118_013239_000000352084_00217_40351_3842.N1	18-NOV-2009 01:32:39	Bright	35.000	121	29Gam Vir	2.7400	7200.0	70	40351	No
17	GOM_TRA_1PNPDE20091118_013746_000000432084_00217_40351_3833.N1	18-NOV-2009 01:37:46	Twilight	43.000	100	4Gam Crv	2.5800	13100.	86	40351	No
18	GOM_TRA_1PNPDE20091118_013918_000000452084_00217_40351_3834.N1	18-NOV-2009 01:39:18	Twilight	45.000	171	2Eps Crv	3.0010	4250.0	90	40351	No
19	GOM_TRA_1PNPDE20091118_015529_000000502084_00218_40352_3835.N1	18-NOV-2009 01:55:29	Dark	49.500	41	Eps Car	1.8600	4100.0	99	40352	No
20	GOM_TRA_1PNPDE20091118_015740_000000552084_00218_40352_3836.N1	18-NOV-2009 01:57:40	Dark	55.000	70	Zet Pup	2.2460	39000.	110	40352	No
21	GOM_TRA_1PNPDE20091118_020059_000000482084_00218_40352_3837.N1	18-NOV-2009 02:00:59	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	40352	No
22	GOM_TRA_1PNPDE20091118_020740_000000532084_00218_40352_3838.N1	18-NOV-2009 02:07:40	Dark	53.000	108	Alp Col	2.6520	15200.	106	40352	No
23	GOM_TRA_1PNPDE20091118_021642_000000512084_00218_40352_3839.N1	18-NOV-2009 02:16:42	Straylight	50.500	165	34Gam Eri	2.9500	3200.0	101	40352	No
24	GOM_TRA_1PNPDE20091118_022214_000000462084_00218_40352_3840.N1	18-NOV-2009 02:22:14	Twilight	46.000	94	92Alp Cet	2.5260	3100.0	92	40352	No
25	GOM_TRA_1PNPDE20091118_022902_000000442084_00218_40352_3841.N1	18-NOV-2009 02:29:02	Bright	44.000	146	25Eta Tau	2.8730	15200.	88	40352	No
26	GOM_TRA_1PNPDE20091118_023138_000000452084_00218_40352_3842.N1	18-NOV-2009 02:31:38	Bright	44.500	150	44Zet Per	2.8900	28000.	89	40352	No
27	GOM_TRA_1PNPDE20091118_023314_000000382084_00218_40352_3843.N1	18-NOV-2009 02:33:14	Bright	38.000	79	26Bet Per	2.3100	13100.	76	40352	No
28	GOM_TRA_1PNPDE20091118_023604_000000382084_00218_40352_3844.N1	18-NOV-2009 02:36:04	Bright	38.000	35	33Alp Per	1.7950	6250.0	76	40352	No
29	GOM_TRA_1PNPDE20091118_025354_000000442084_00218_40352_3838.N1	18-NOV-2009 02:53:54	Bright	44.000	36	50Alp UMa	1.8000	6300.0	88	40352	Yes
30	GOM_TRA_1PNPDE20091118_025533_000000452084_00218_40352_3839.N1	18-NOV-2009 02:55:33	Bright	45.000	82	48Bet UMa	2.3650	10600.	90	40352	No
31	GOM_TRA_1PNPDE20091118_025940_000000652084_00218_40352_3840.N1	18-NOV-2009 02:59:40	Bright	65.000	174	52Psi UMa	3.0040	4400.0	130	40352	No
32	GOM_TRA_1PNPDE20091118_030133_000000352084_00218_40352_3841.N1	18-NOV-2009 03:01:33	Bright	35.000	152	12Alp2CVn	2.8900	11000.	70	40352	No
33	GOM_TRA_1PNPDE20091118_030834_000000722084_00218_40352_3842.N1	18-NOV-2009 03:08:34	Bright	72.000	96	68Del Leo	2.5600	9300.0	144	40352	No
34	GOM_TRA_1PNPDE20091118_031315_000000522084_00218_40352_3843.N1	18-NOV-2009 03:13:15	Bright	51.500	121	29Gam Vir	2.7400	7200.0	103	40352	No
35	GOM_TRA_1PNPDE20091118_031822_000000412084_00218_40352_3844.N1	18-NOV-2009 03:18:22	Twilight	41.000	100	4Gam Crv	2.5800	13100.	82	40352	No
36	GOM_TRA_1PNPDE20091118_031954_000000452084_00218_40352_3845.N1	18-NOV-2009 03:19:54	Twilight	45.000	171	2Eps Crv	3.0010	4250.0	90	40352	No
37	GOM_TRA_1PNPDE20091118_032913_000000422084_00218_40352_3846.N1	18-NOV-2009 03:29:13	Dark	42.000	113	Mu Vel	2.6920	5000.0	84	40352	No
38	GOM_TRA_1PNPDE20091118_033606_000000432084_00219_40353_3847.N1	18-NOV-2009 03:36:06	Dark	43.000	41	Eps Car	1.8600	4100.0	86	40353	No
39	GOM_TRA_1PNPDE20091118_033817_000000542084_00219_40353_3848.N1	18-NOV-2009 03:38:17	Dark	53.500	70	Zet Pup	2.2460	39000.	107	40353	No
40	GOM_TRA_1PNPDE20091118_034136_000000612084_00219_40353_3849.N1	18-NOV-2009 03:41:36	Dark	60.500	2	Alp Car	-0.73600	7000.0	121	40353	No
41	GOM_TRA_1PNPDE20091118_034817_000000542084_00219_40353_3850.N1	18-NOV-2009 03:48:17	Dark	53.500	108	Alp Col	2.6520	15200.	107	40353	No
42	GOM_TRA_1PNPDE20091118_035719_000000492084_00219_40353_3851.N1	18-NOV-2009 03:57:19	Straylight	48.500	165	34Gam Eri	2.9500	3200.0	97	40353	No
43	GOM_TRA_1PNPDE20091118_040250_000000462084_00219_40353_3852.N1	18-NOV-2009 04:02:50	Twilight	46.000	94	92Alp Cet	2.5260	3100.0	92	40353	No
44	GOM_TRA_1PNPDE20091118_040937_000000442084_00219_40353_3853.N1	18-NOV-2009 04:09:37	Bright	44.000	146	25Eta Tau	2.8730	15200.	88	40353	No
45	GOM_TRA_1PNPDE20091118_041213_000000452084_00219_40353_3854.N1	18-NOV-2009 04:12:13	Bright	44.500	150	44Zet Per	2.8900	28000.	89	40353	No
46	GOM_TRA_1PNPDE20091118_041350_000000402084_00219_40353_3855.N1	18-NOV-2009 04:13:50	Bright	39.500	79	26Bet Per	2.3100	13100.	79	40353	No
47	GOM_TRA_1PNPDE20091118_041640_000000392084_00219_40353_3856.N1	18-NOV-2009 04:16:40	Bright	38.500	35	33Alp Per	1.7950	6250.0	77	40353	No
48	GOM_TRA_1PNPDE20091118_043430_000000392084_00219_40353_3848.N1	18-NOV-2009 04:34:30	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	40353	No
49	GOM_TRA_1PNPDE20091118_043609_000000432084_00219_40353_3849.N1	18-NOV-2009 04:36:09	Bright	43.000	82	48Bet UMa	2.3650	10600.	86	40353	No
50	GOM_TRA_1PNPDE20091118_044016_000000652084_00219_40353_3850.N1	18-NOV-2009 04:40:16	Bright	65.000	174	52Psi UMa	3.0040	4400.0	130	40353	No
51	GOM_TRA_1PNPDE20091118_044209_000000362084_00219_40353_3851.N1	18-NOV-2009 04:42:09	Bright	35.500	152	12Alp2CVn	2.8900	11000.	71	40353	No
52	GOM_TRA_1PNPDE20091118_044911_000000692084_00219_40353_3852.N1	18-NOV-2009 04:49:11	Bright	68.500	96	68Del Leo	2.5600	9300.0	137	40353	No
53	GOM_TRA_1PNPDE20091118_045351_000000382084_00219_40353_3853.N1	18-NOV-2009 04:53:51	Bright	37.500	121	29Gam Vir	2.7400	7200.0	75	40353	No
54	GOM_TRA_1PNPDE20091118_045859_000000452084_00219_40353_3854.N1	18-NOV-2009 04:58:59	Twilight	45.000	100	4Gam Crv	2.5800	13100.	90	40353	No
55	GOM_TRA_1PNPDE20091118_050031_000000452084_00219_40353_3855.N1	18-NOV-2009 05:00:31	Twilight	45.000	171	2Eps Crv	3.0010	4250.0	90	40353	No
56	GOM_TRA_1PNPDE20091118_050950_000000452084_00219_40353_3856.N1	18-NOV-2009 05:09:50	Dark	45.000	113	Mu Vel	2.6920	5000.0	90	40353	No
57	GOM_TRA_1PNPDE20091118_051642_000000572084_00220_40354_3857.N1	18-NOV-2009 05:16:42	Dark	56.500	41	Eps Car	1.8600	4100.0	113	40354	No
58	GOM_TRA_1PNPDE20091118_051854_000000562084_00220_40354_3858.N1	18-NOV-2009 05:18:54	Dark	56.000	70	Zet Pup	2.2460	39000.	112	40354	No
59	GOM_TRA_1PNPDE20091118_052213_000000552084_00220_40354_3859.N1	18-NOV-2009 05:22:13	Dark	54.500	2	Alp Car	-0.73600	7000.0	109	40354	No
60	GOM_TRA_1PNPDE20091118_052854_000000522084_00220_40354_3860.N1	18-NOV-2009 05:28:54	Dark	51.500	108	Alp Col	2.6520	15200.	103	40354	No
61	GOM_TRA_1PNPDE20091118_053755_000000522084_00220_40354_3861.N1	18-NOV-2009 05:37:55	Straylight	51.500	165	34Gam Eri	2.9500	3200.0	103	40354	No
62	GOM_TRA_1PNPDE20091118_054326_000000472084_00220_40354_3862.N1	18-NOV-2009 05:43:26	Twilight	46.500	94	92Alp Cet	2.5260	3100.0	93	40354	No
63	GOM_TRA_1PNPDE20091118_055013_000000432084_00220_40354_3863.N1	18-NOV-2009 05:50:13	Bright	43.000	146	25Eta Tau	2.8730	15200.	86	40354	No
64	GOM_TRA_1PNPDE20091118_055249_000000442084_00220_40354_3864.N1	18-NOV-2009 05:52:49	Bright	43.500	150	44Zet Per	2.8900	28000.	87	40354	No
65	GOM_TRA_1PNPDE20091118_055426_000000402084_00220_40354_3865.N1	18-NOV-2009 05:54:26	Bright	40.000	79	26Bet Per	2.3100	13100.	80	40354	No
66	GOM_TRA_1PNPDE20091118_055715_000000382084_00220_40354_3866.N1	18-NOV-2009 05:57:15	Bright	38.000	35	33Alp Per	1.7950	6250.0	76	40354	No
67	GOM_TRA_1PNPDE20091118_203422_000000532084_00229_40363_3899.N1	18-NOV-2009 20:34:22	Dark	52.500	108	Alp Col	2.6520	15200.	105	40363	No
68	GOM_TRA_1PNPDE20091118_204319_000000492084_00229_40363_3900.N1	18-NOV-2009 20:43:19	Straylight	48.500	165	34Gam Eri	2.9500	3200.0	97	40363	No
69	GOM_TRA_1PNPDE20091118_204849_000000452084_00229_40363_3901.N1	18-NOV-2009 20:48:49	Twilight	44.500	94	92Alp Cet	2.5260	3100.0	89	40363	No
70	GOM_TRA_1PNPDE20091118_205532_000000432084_00229_40363_3902.N1	18-NOV-2009 20:55:32	Bright	43.000	146	25Eta Tau	2.8730	15200.	86	40363	No
71	GOM_TRA_1PNPDE20091118_205808_000000432084_00229_40363_3903.N1	18-NOV-2009 20:58:08	Bright	42.500	150	44Zet Per	2.8900	28000.	85	40363	No

72	GOM_TRA_1PNPDE20091118_205947_000000452084_00229_40363_3904.N1	18-NOV-2009 20:59:47	Bright	44.500	79	26Bet Per	2.3100	13100.	89	40363	No
73	GOM_TRA_1PNPDE20091118_210236_000000402084_00229_40363_3905.N1	18-NOV-2009 21:02:36	Bright	40.000	35	33Alp Per	1.7950	6250.0	80	40363	No
74	GOM_TRA_1PNPDE20091118_212027_000000442084_00229_40363_3906.N1	18-NOV-2009 21:20:27	Bright	43.500	36	50Alp UMa	1.8000	6300.0	87	40363	No
75	GOM_TRA_1PNPDE20091118_212206_000000442084_00229_40363_3907.N1	18-NOV-2009 21:22:06	Bright	43.500	82	48Bet UMa	2.3650	10600.	87	40363	No
76	GOM_TRA_1PNPDE20091118_212614_000000442084_00229_40363_3908.N1	18-NOV-2009 21:26:14	Bright	44.000	174	52Psi UMa	3.0040	4400.0	88	40363	No
77	GOM_TRA_1PNPDE20091118_212810_000000362084_00229_40363_3909.N1	18-NOV-2009 21:28:10	Bright	35.500	152	12Alp2CVn	2.8900	11000.	71	40363	No
78	GOM_TRA_1PNPDE20091118_213515_000000322084_00229_40363_3910.N1	18-NOV-2009 21:35:15	Twilight	32.000	96	68Del Leo	2.5600	9300.0	64	40363	No
79	GOM_TRA_1PNPDE20091118_213624_000000632084_00229_40363_3911.N1	18-NOV-2009 21:36:24	Bright	63.000	62	94Bet Leo	2.1360	9700.0	126	40363	No
80	GOM_TRA_1PNPDE20091118_213955_000000352084_00229_40363_3912.N1	18-NOV-2009 21:39:55	Bright	35.000	121	29Gam Vir	2.7400	7200.0	70	40363	No
81	GOM_TRA_1PNPDE20091118_214504_000000422084_00229_40363_3904.N1	18-NOV-2009 21:45:04	Twilight	42.000	100	4Gam Crv	2.5800	13100.	84	40363	No
82	GOM_TRA_1PNPDE20091118_214635_000000462084_00229_40363_3905.N1	18-NOV-2009 21:46:35	Twilight	45.500	171	2Eps Crv	3.0010	4250.0	91	40363	No
83	GOM_TRA_1PNPDE20091118_215556_000000412084_00229_40363_3906.N1	18-NOV-2009 21:55:56	Dark	40.500	113	Mu Vel	2.6920	5000.0	81	40363	No
84	GOM_TRA_1PNPDE20091118_220248_000000442084_00230_40364_3907.N1	18-NOV-2009 22:02:48	Dark	44.000	41	Eps Car	1.8600	4100.0	88	40364	No
85	GOM_TRA_1PNPDE20091118_220505_000000542084_00230_40364_3908.N1	18-NOV-2009 22:05:05	Dark	54.000	70	Zet Pup	2.2460	39000.	108	40364	No
86	GOM_TRA_1PNPDE20091118_220818_000000462084_00230_40364_3909.N1	18-NOV-2009 22:08:18	Dark	46.000	2	Alp Car	-0.73600	7000.0	92	40364	No
87	GOM_TRA_1PNPDE20091118_221459_000000522084_00230_40364_3910.N1	18-NOV-2009 22:14:59	Dark	52.000	108	Alp Col	2.6520	15200.	104	40364	No
88	GOM_TRA_1PNPDE20091118_222355_000000492084_00230_40364_3911.N1	18-NOV-2009 22:23:55	Straylight	49.000	165	34Gam Eri	2.9500	3200.0	98	40364	No
89	GOM_TRA_1PNPDE20091118_222925_000000462084_00230_40364_3912.N1	18-NOV-2009 22:29:25	Twilight	45.500	94	92Alp Cet	2.5260	3100.0	91	40364	No
90	GOM_TRA_1PNPDE20091118_223608_000000412084_00230_40364_3913.N1	18-NOV-2009 22:36:08	Bright	41.000	146	25Eta Tau	2.8730	15200.	82	40364	No
91	GOM_TRA_1PNPDE20091118_223843_000000632084_00230_40364_3914.N1	18-NOV-2009 22:38:43	Bright	63.000	150	44Zet Per	2.8900	28000.	126	40364	No
92	GOM_TRA_1PNPDE20091118_224022_000000392084_00230_40364_3915.N1	18-NOV-2009 22:40:22	Bright	39.000	79	26Bet Per	2.3100	13100.	78	40364	No
93	GOM_TRA_1PNPDE20091118_224311_000000382084_00230_40364_3916.N1	18-NOV-2009 22:43:11	Bright	38.000	35	33Alp Per	1.7950	6250.0	76	40364	No
94	GOM_TRA_1PNPDE20091118_230103_000000412084_00230_40364_3917.N1	18-NOV-2009 23:01:03	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	40364	No
95	GOM_TRA_1PNPDE20091118_230241_000000472084_00230_40364_3918.N1	18-NOV-2009 23:02:41	Bright	46.500	82	48Bet UMa	2.3650	10600.	93	40364	No
96	GOM_TRA_1PNPDE20091118_230649_000000482084_00230_40364_3919.N1	18-NOV-2009 23:06:49	Bright	48.000	174	52Psi UMa	3.0040	4400.0	96	40364	No
97	GOM_TRA_1PNPDE20091118_230846_000000362084_00230_40364_3920.N1	18-NOV-2009 23:08:46	Bright	35.500	152	12Alp2CVn	2.8900	11000.	71	40364	No
98	GOM_TRA_1PNPDE20091118_231700_000000642084_00230_40364_3921.N1	18-NOV-2009 23:17:00	Bright	64.000	62	94Bet Leo	2.1360	9700.0	128	40364	No
99	GOM_TRA_1PNPDE20091118_232031_000000552084_00230_40364_3922.N1	18-NOV-2009 23:20:31	Bright	54.500	121	29Gam Vir	2.7400	7200.0	109	40364	No
100	GOM_TRA_1PNPDE20091118_232540_000000422084_00230_40364_3909.N1	18-NOV-2009 23:25:40	Twilight	42.000	100	4Gam Crv	2.5800	13100.	84	40364	No
101	GOM_TRA_1PNPDE20091118_232712_000000442084_00230_40364_3910.N1	18-NOV-2009 23:27:12	Twilight	44.000	171	2Eps Crv	3.0010	4250.0	88	40364	No
102	GOM_TRA_1PNPDE20091118_233632_000000422084_00230_40364_3911.N1	18-NOV-2009 23:36:32	Dark	42.000	113	Mu Vel	2.6920	5000.0	84	40364	No
103	GOM_TRA_1PNPDE20091118_234324_000000422084_00231_40365_3912.N1	18-NOV-2009 23:43:24	Dark	41.500	41	Eps Car	1.8600	4100.0	83	40365	No
104	GOM_TRA_1PNPDE20091118_234543_000000542084_00231_40365_3913.N1	18-NOV-2009 23:45:43	Dark	54.000	70	Zet Pup	2.2460	39000.	108	40365	No
105	GOM_TRA_1PNPDE20091118_234855_000000602084_00231_40365_3914.N1	18-NOV-2009 23:48:55	Dark	60.000	2	Alp Car	-0.73600	7000.0	120	40365	No
106	GOM_TRA_1PNPDE20091118_235535_000000512084_00231_40365_3915.N1	18-NOV-2009 23:55:35	Dark	50.500	108	Alp Col	2.6520	15200.	101	40365	No

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



4. Overview of dark signal processing per product

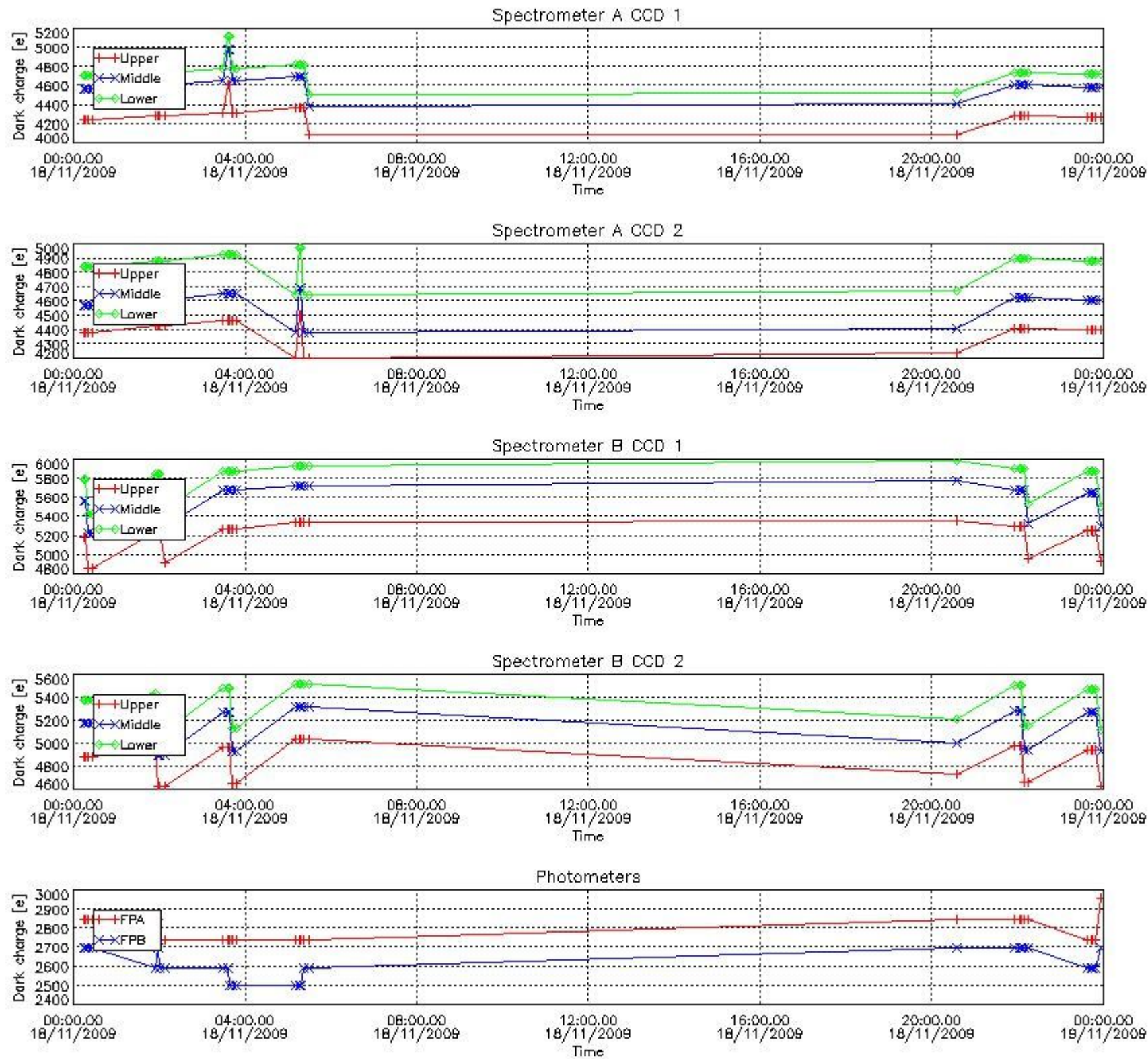
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20091118_203422_000000532084_00229_40363_3899.N1	DC map used
GOM_TRA_1PNPDE20091118_204319_000000492084_00229_40363_3900.N1	DC map used
GOM_TRA_1PNPDE20091118_204849_000000452084_00229_40363_3901.N1	DC map used
GOM_TRA_1PNPDE20091118_205532_000000432084_00229_40363_3902.N1	DC map used
GOM_TRA_1PNPDE20091118_205808_000000432084_00229_40363_3903.N1	DC map used
GOM_TRA_1PNPDE20091118_205947_000000452084_00229_40363_3904.N1	DC map used
GOM_TRA_1PNPDE20091118_210236_000000402084_00229_40363_3905.N1	DC map used
GOM_TRA_1PNPDE20091118_212027_000000442084_00229_40363_3906.N1	DC map used
GOM_TRA_1PNPDE20091118_212206_000000442084_00229_40363_3907.N1	DC map used
GOM_TRA_1PNPDE20091118_212614_000000442084_00229_40363_3908.N1	DC map used
GOM_TRA_1PNPDE20091118_212810_000000362084_00229_40363_3909.N1	DC map used
GOM_TRA_1PNPDE20091118_213515_000000322084_00229_40363_3910.N1	DC map used
GOM_TRA_1PNPDE20091118_213624_000000632084_00229_40363_3911.N1	DC map used
GOM_TRA_1PNPDE20091118_213955_000000352084_00229_40363_3912.N1	DC map used

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



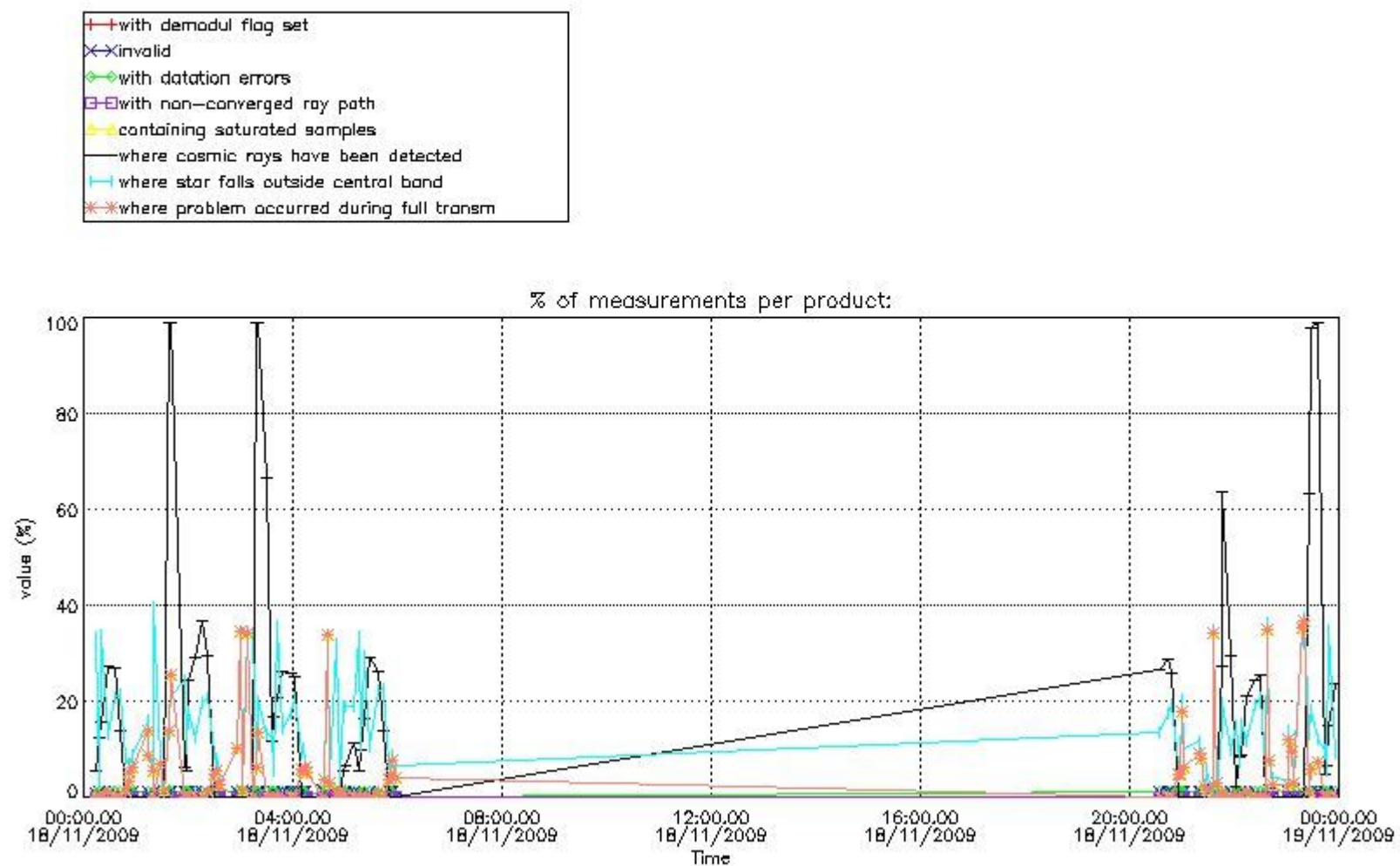
5. Demodulation flag and quality information monitoring

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.

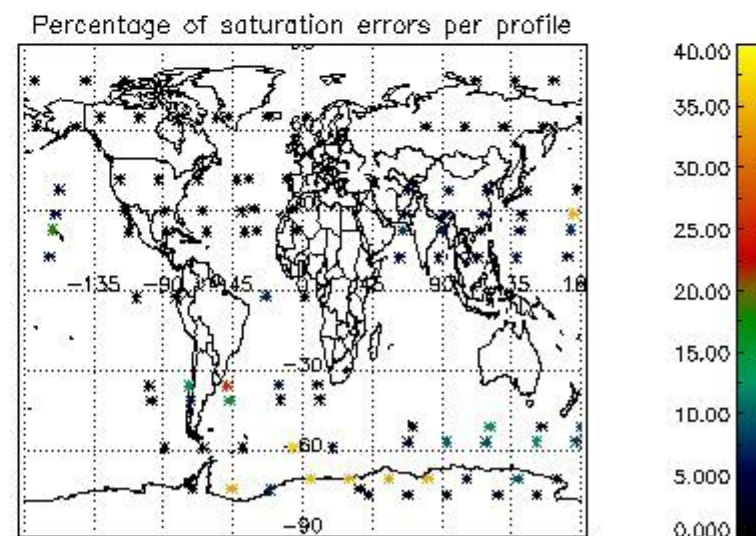
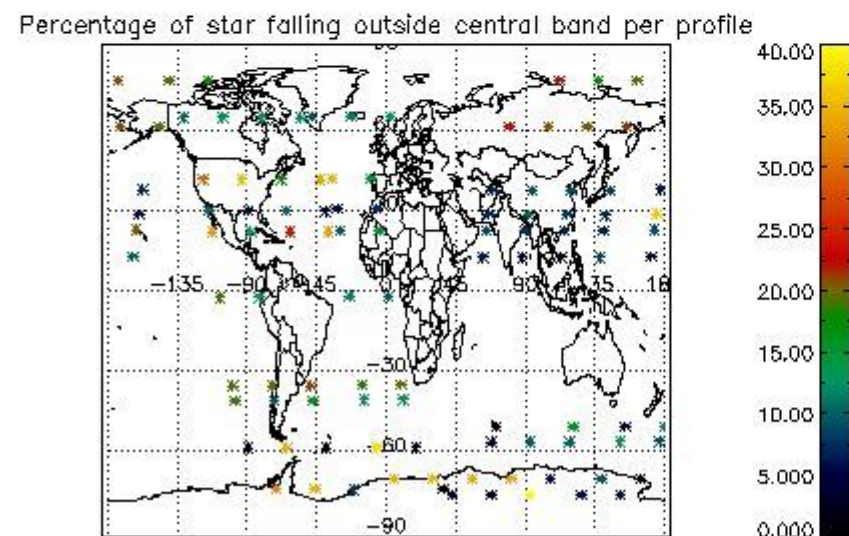
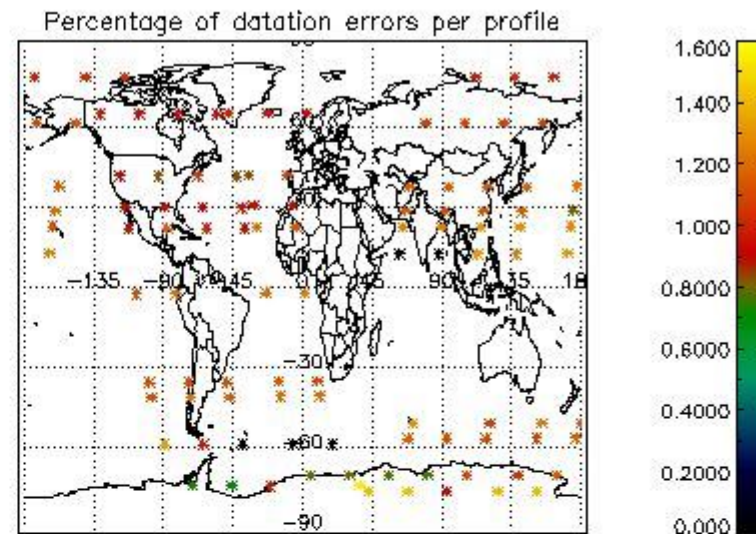
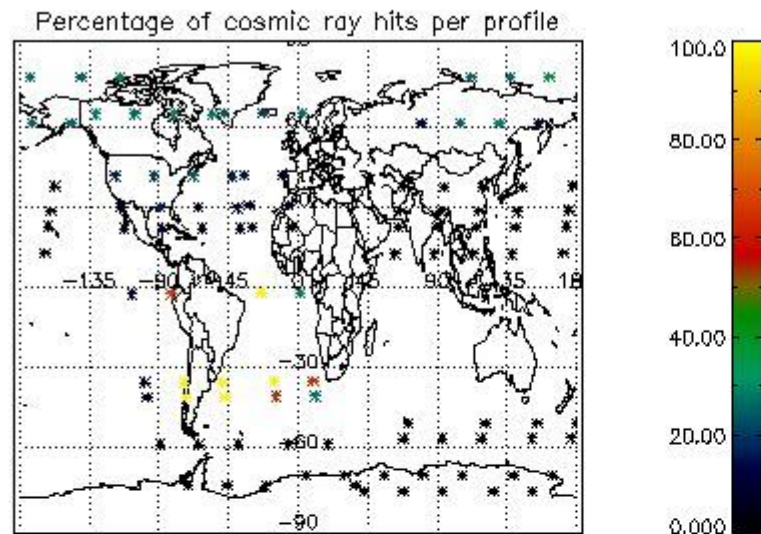
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	43.8095 %
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)



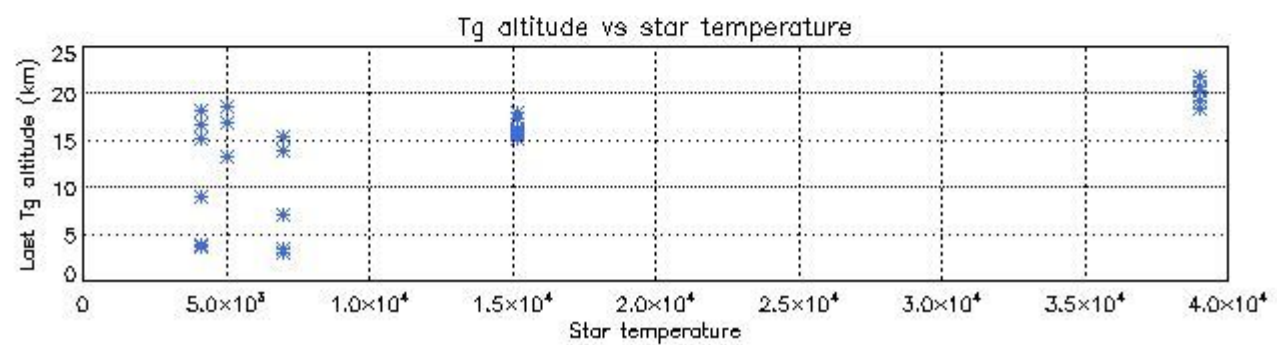
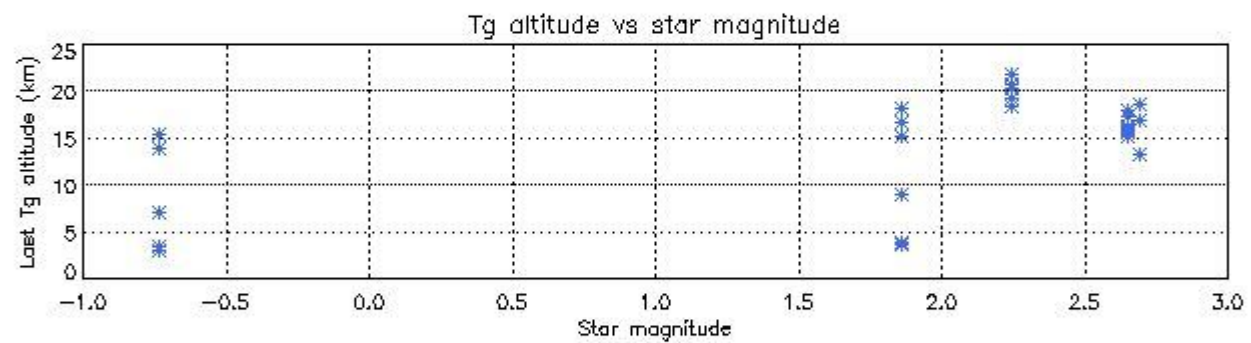
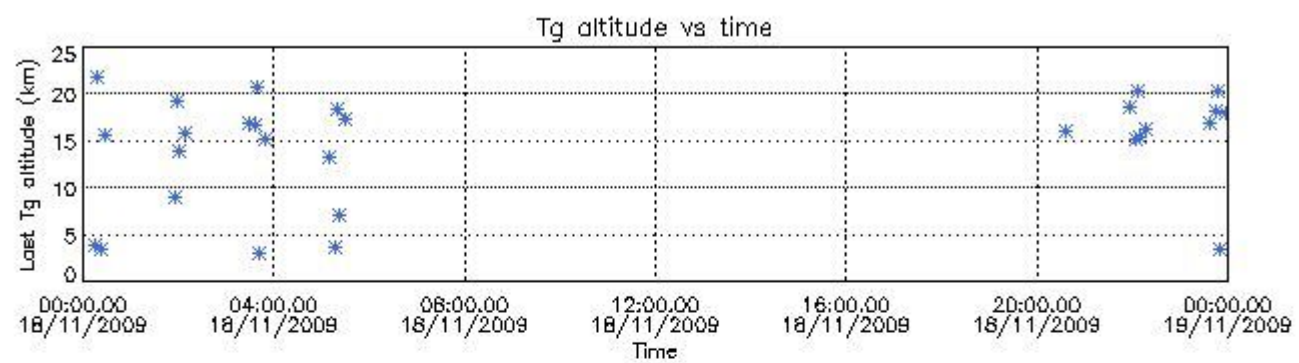
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.232	17.683	12.117
St. deviation:	5.8720	6.8198	0.59516
Maximum:	21.889	25.999	13.146
Minimum:	3.0980	3.8726	11.640
Number of data:	29.000	53.000	5.0000

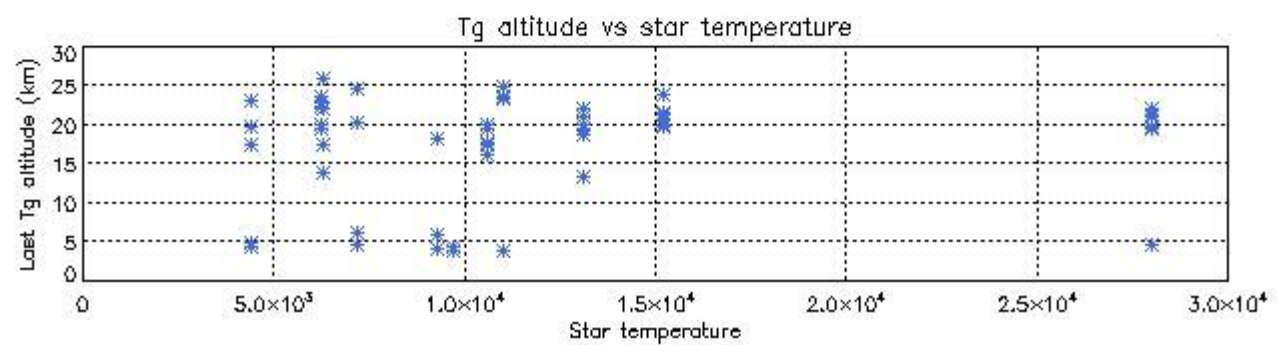
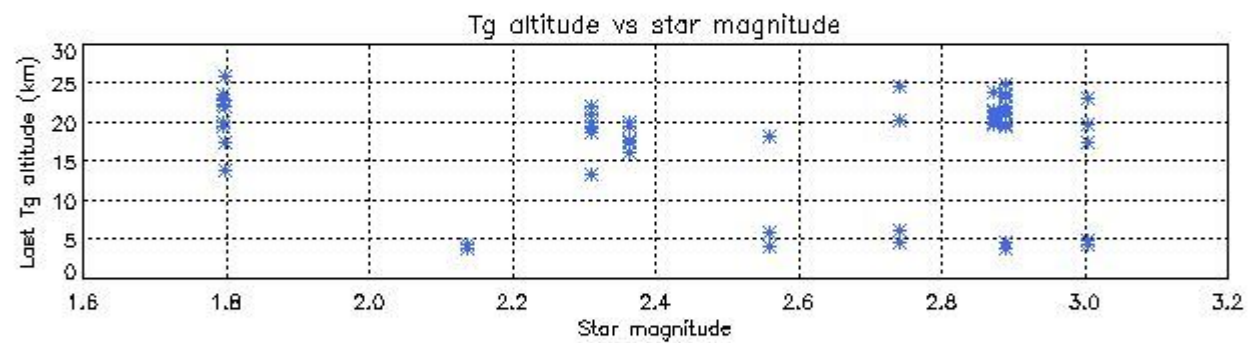
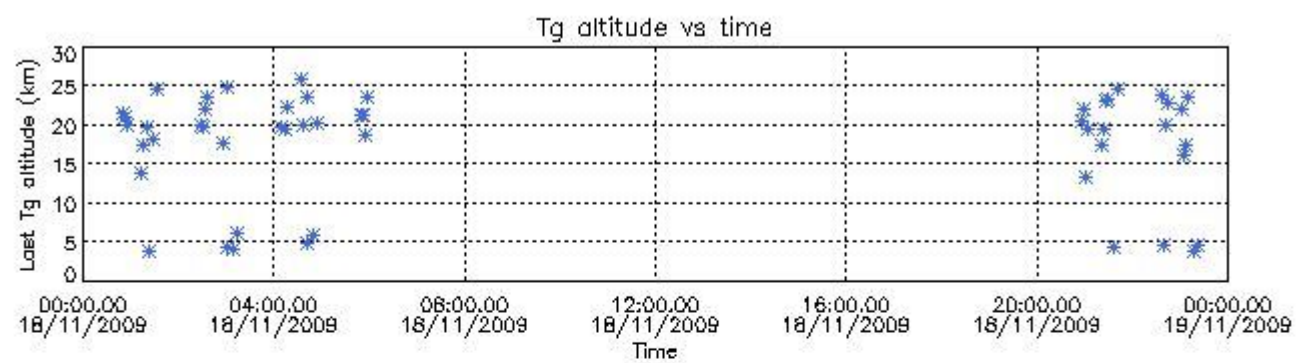
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



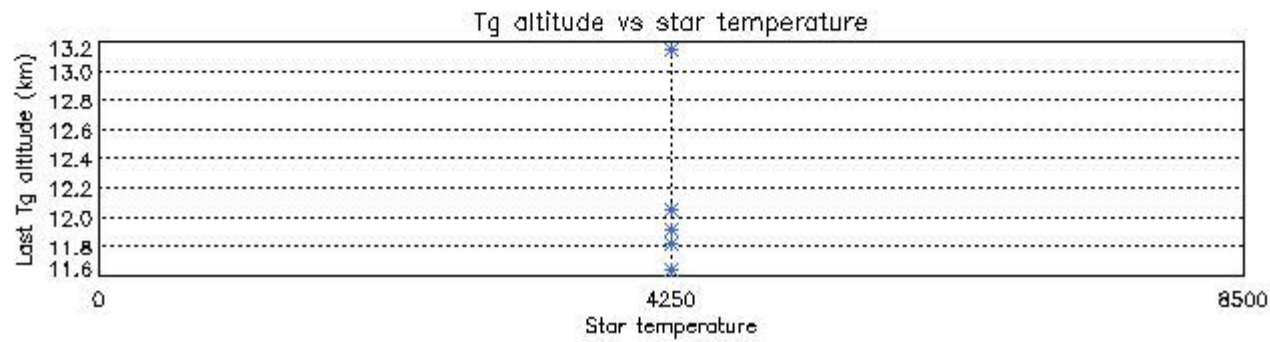
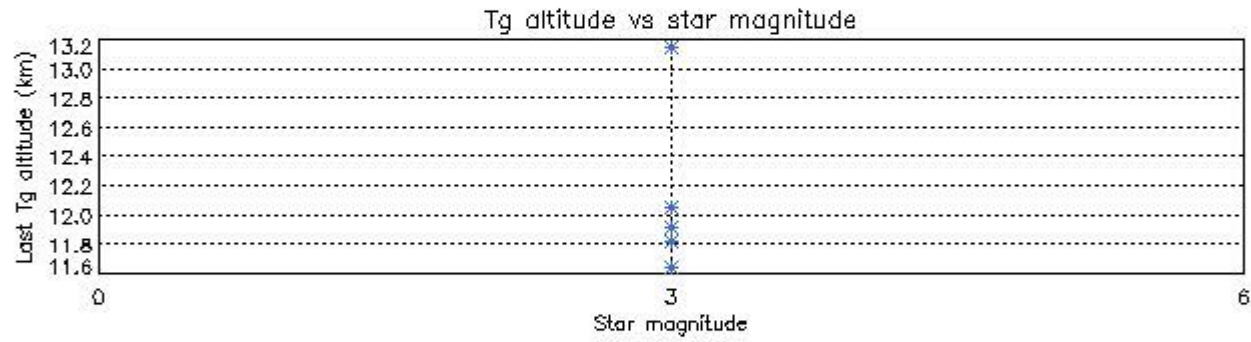
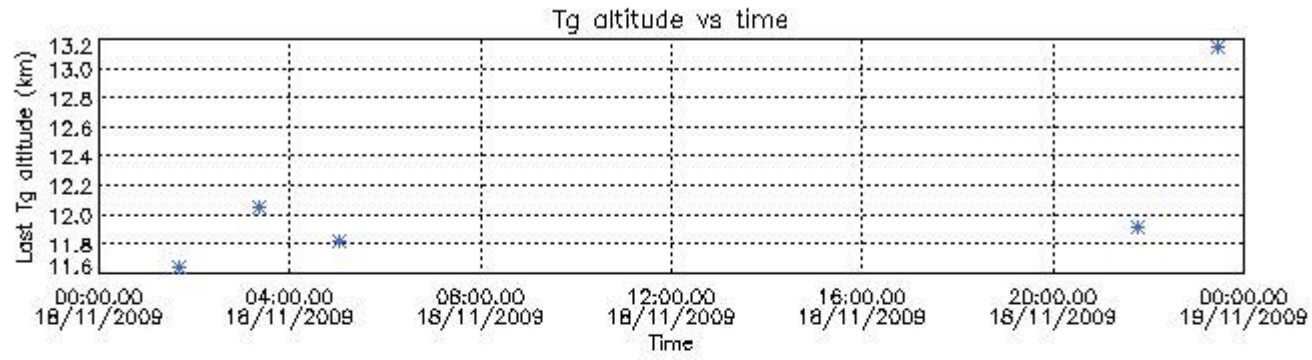
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

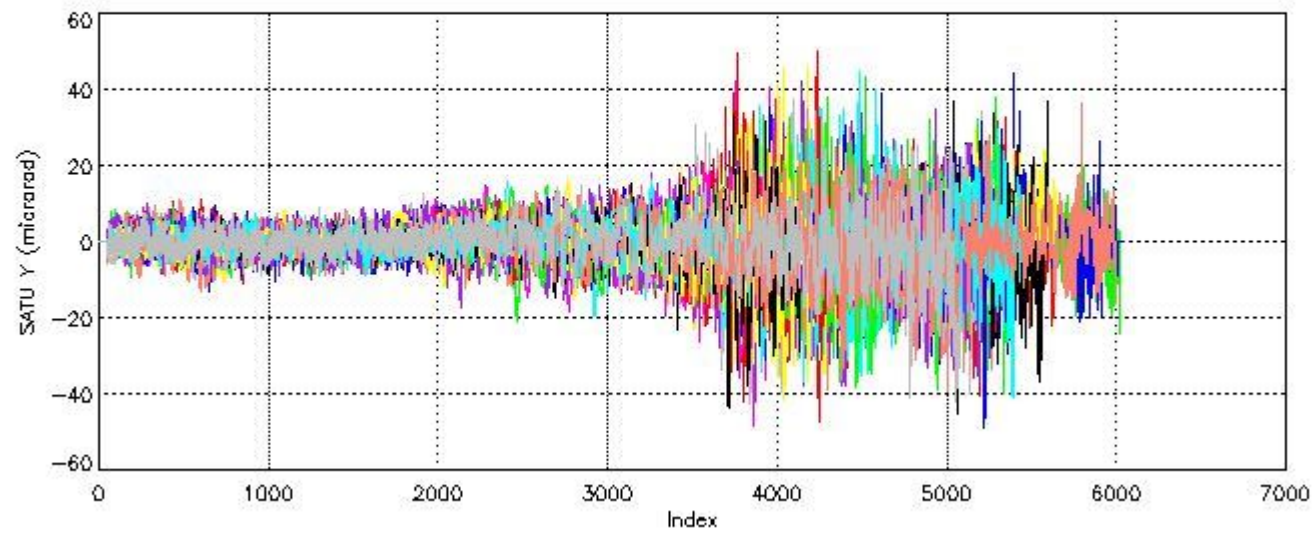
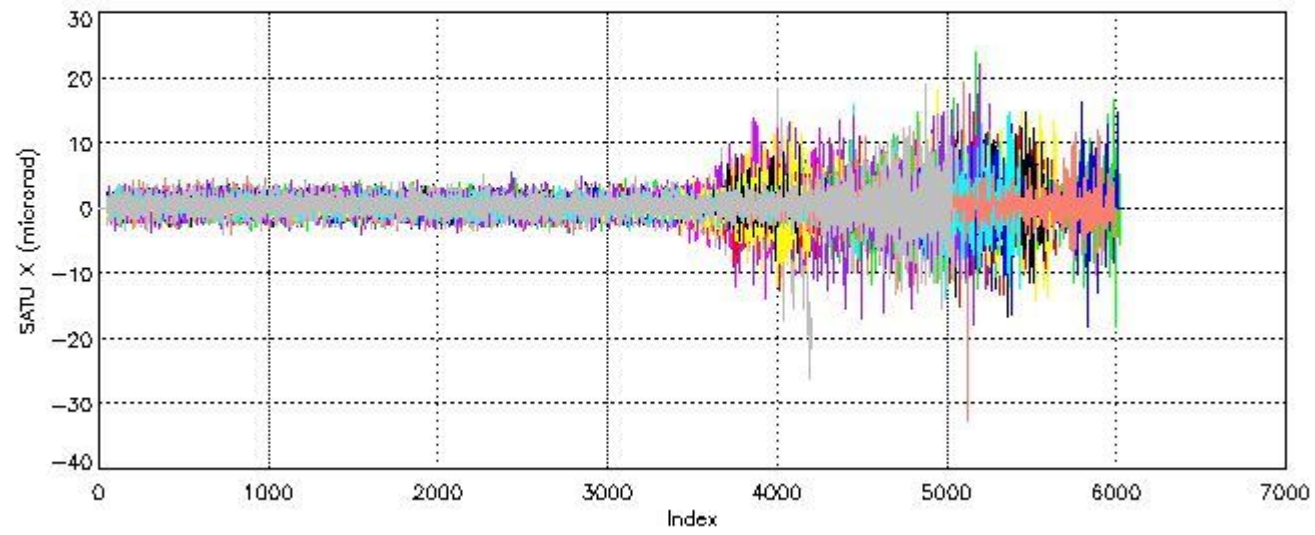


7. Star Acquisition and Tracking Unit (SATU)

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:	0.26430	-0.22721	0.18009	-0.31948
St. deviation:	0.63088	2.6341	1.0303	2.7939
Maximum:	4.7000	11.300	6.7000	13.800
Minimum:	-4.2000	-13.200	-7.3000	-14.700

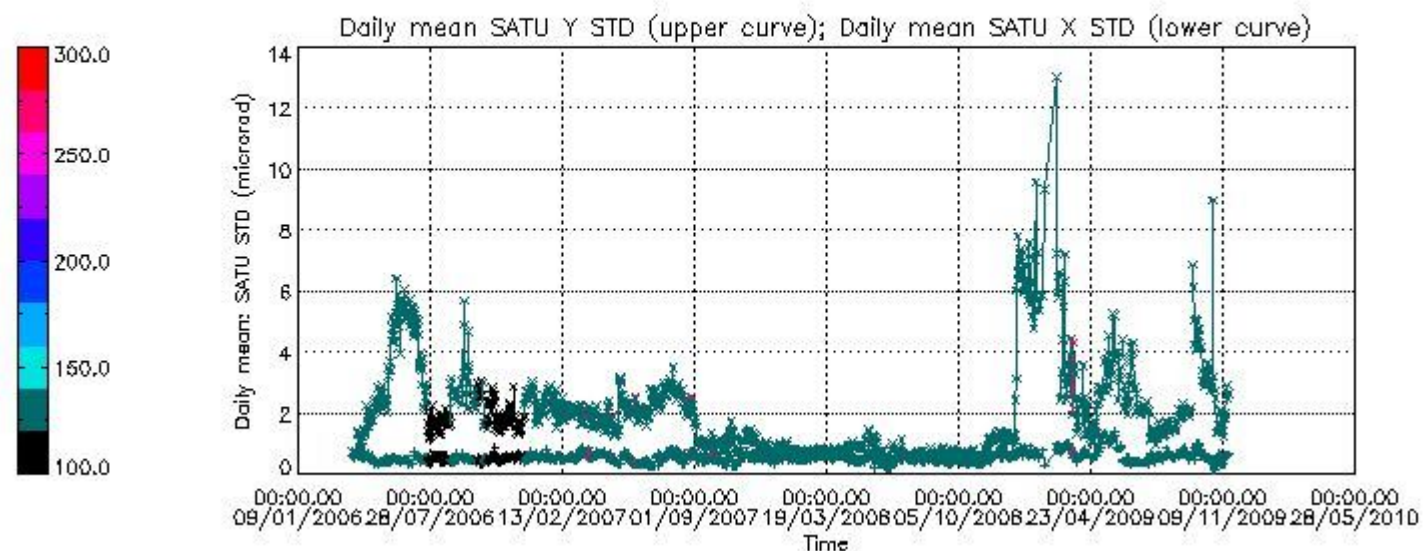
Number of data:	31350.	31350.	51750.	51750.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

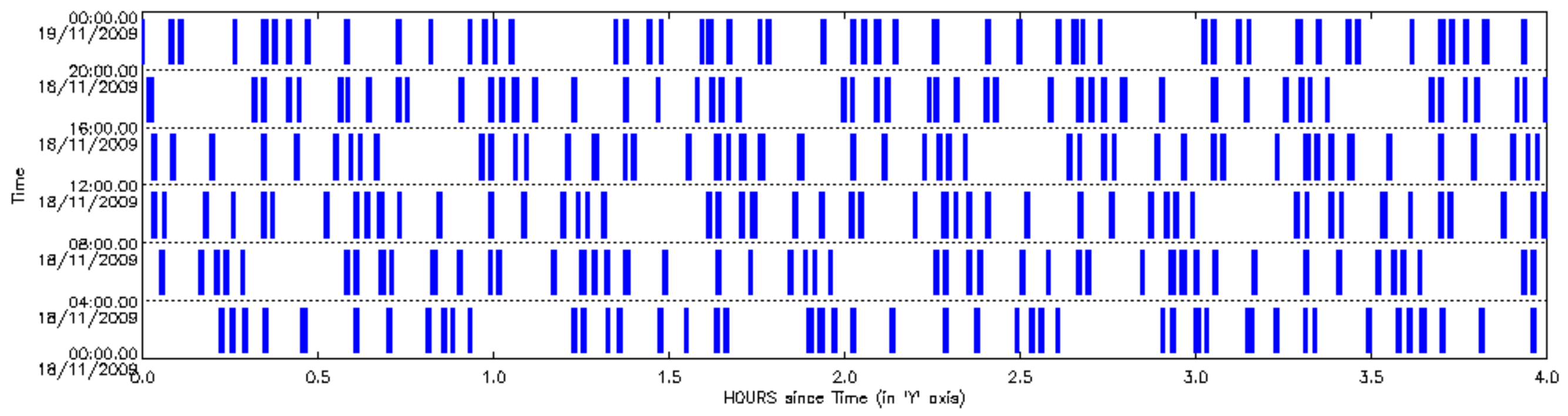
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

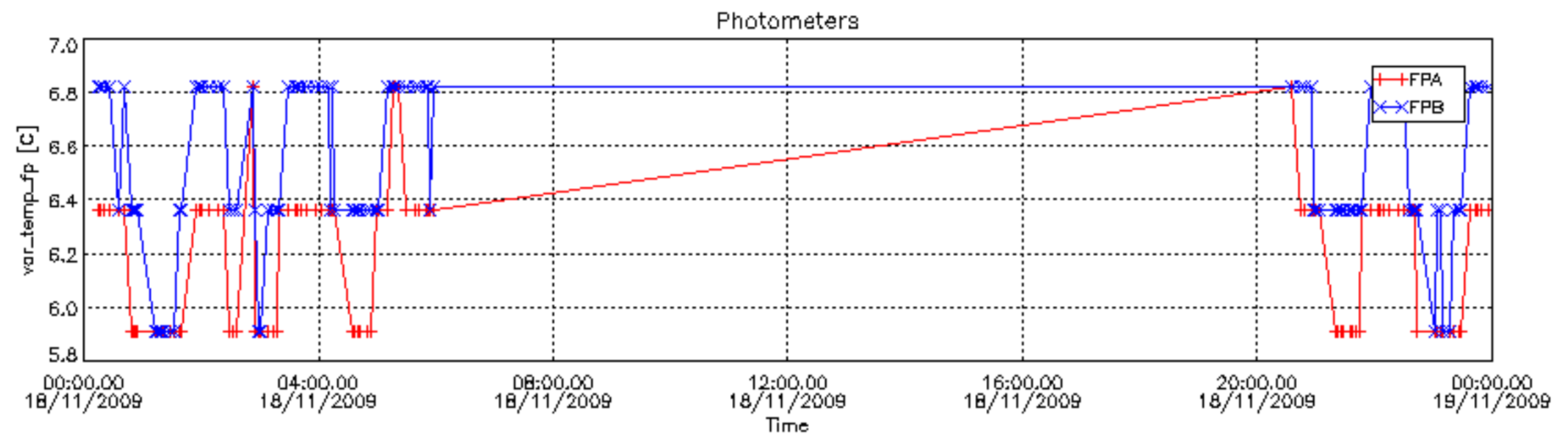
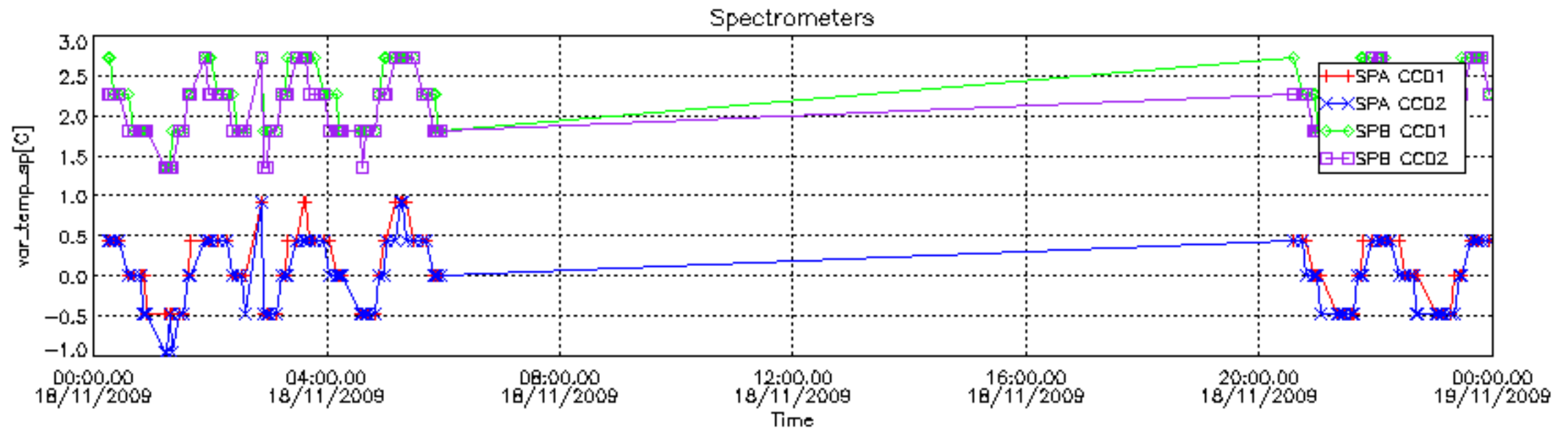


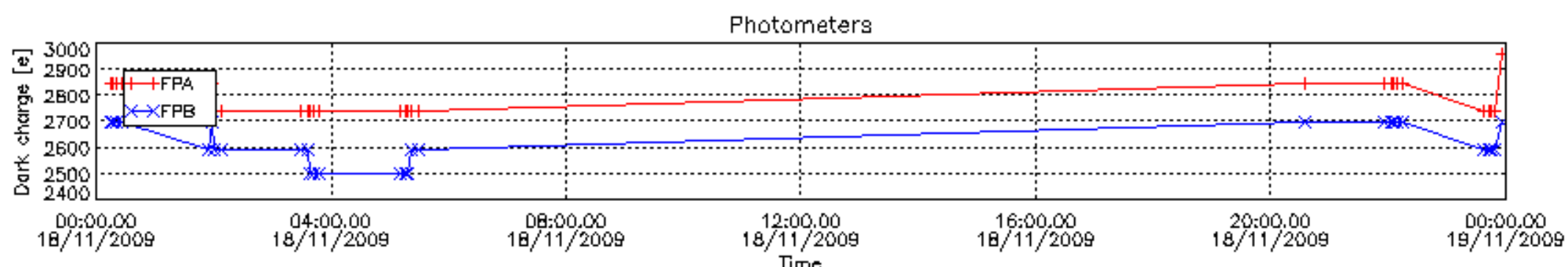
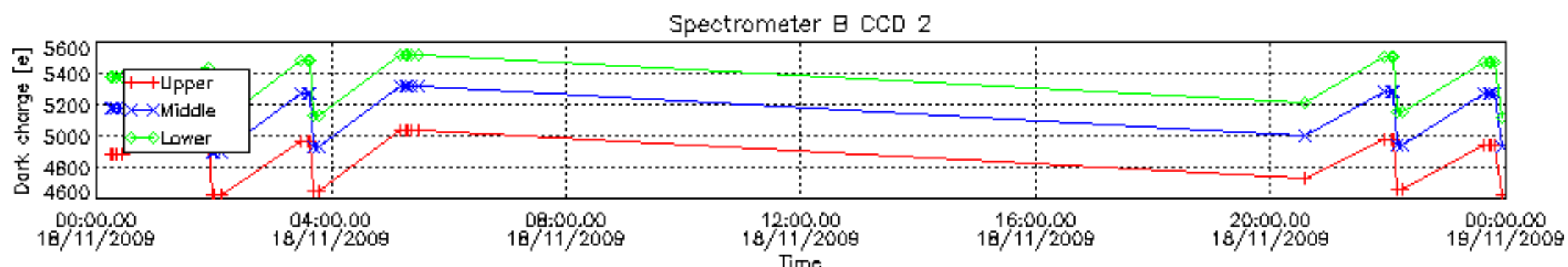
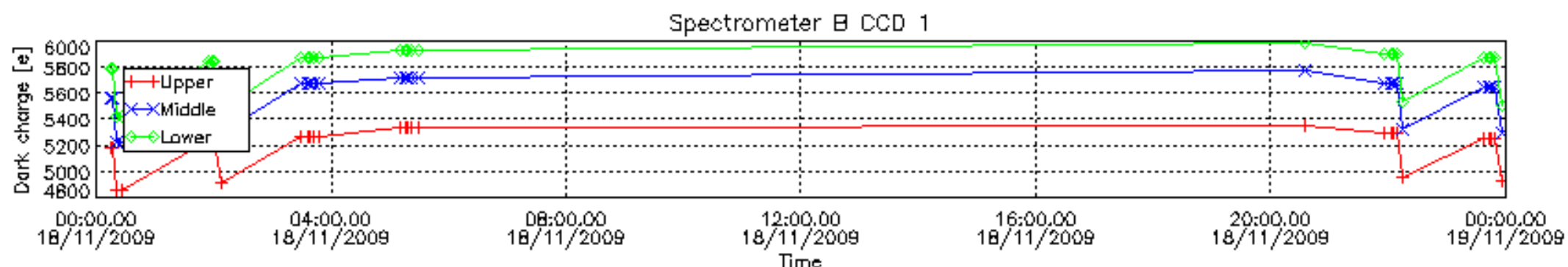
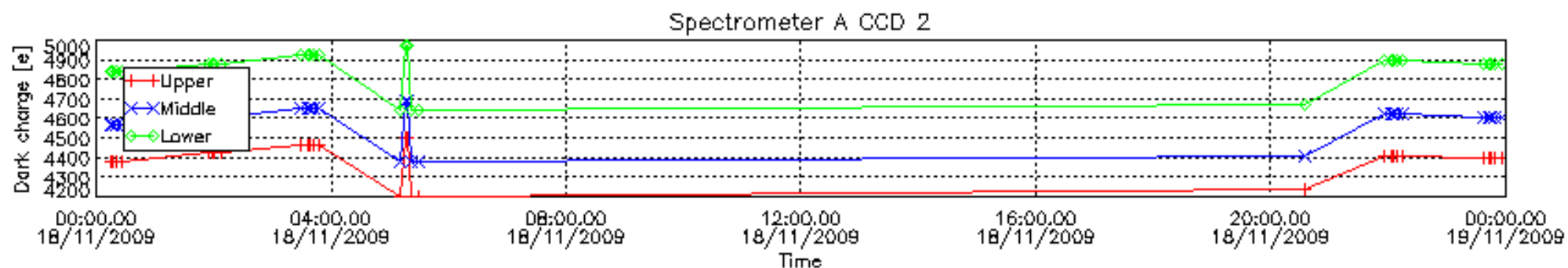
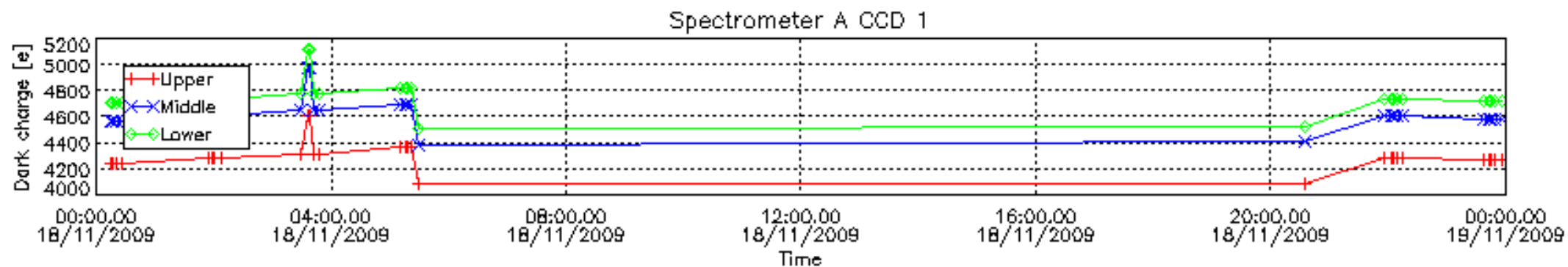
8. Auxiliary Data Files used for the production reported in section 2.4

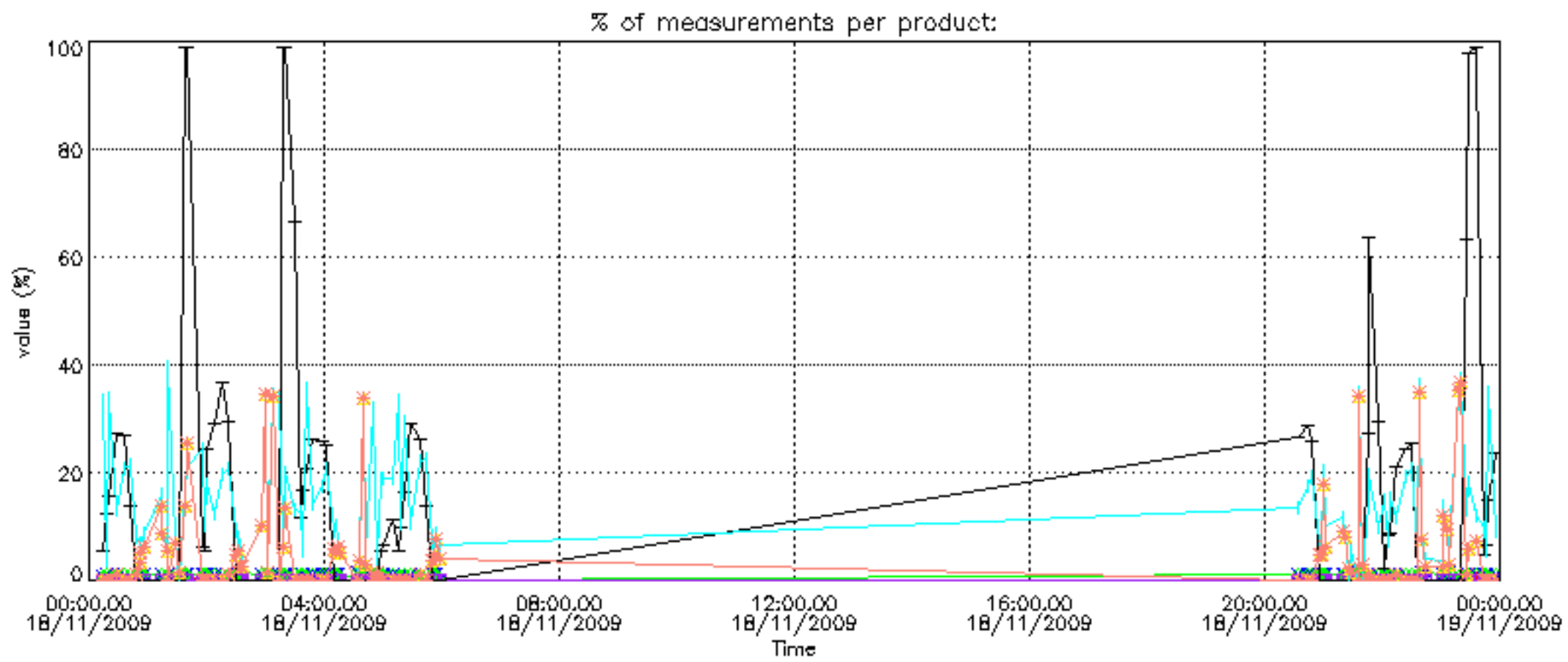
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	18-NOV-2009 00:14:52
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091116_112409_20091114_000000_20100101_000000	1	18-NOV-2009 00:14:52
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	18-NOV-2009 00:14:52
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	18-NOV-2009 00:14:52
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	18-NOV-2009 00:14:52
ECMWF_FILE	AUX_ECF_AXNECM20091117_064111_20091117_210000_20091118_090000	1	18-NOV-2009 00:14:52
ECMWF_FILE	AUX_ECF_AXNECM20091117_182113_20091118_030000_20091118_150000	48	18-NOV-2009 04:34:30
ECMWF_FILE	AUX_ECF_AXNECM20091118_064109_20091118_150000_20091119_030000	67	18-NOV-2009 20:34:22
ECMWF_FILE	AUX_ECF_AXNECM20091118_064110_20091118_210000_20091119_090000	81	18-NOV-2009 21:45:04
OPTIONAL_ECMWF_FILE	MISSING	1	18-NOV-2009 00:14:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091117_235146_000057382084_00216_40350_9188.N1	1	18-NOV-2009 00:14:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091118_013243_000044632084_00217_40351_9189.N1	17	18-NOV-2009 01:37:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091118_025225_000054192084_00218_40352_9190.N1	29	18-NOV-2009 02:53:54
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091118_042803_000057382084_00219_40353_9191.N1	48	18-NOV-2009 04:34:30
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091118_202944_000038252084_00229_40363_9192.N1	67	18-NOV-2009 20:34:22
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091118_213848_000057382084_00229_40363_9193.N1	81	18-NOV-2009 21:45:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091118_231945_000057382084_00230_40364_9194.N1	100	18-NOV-2009 23:25:40

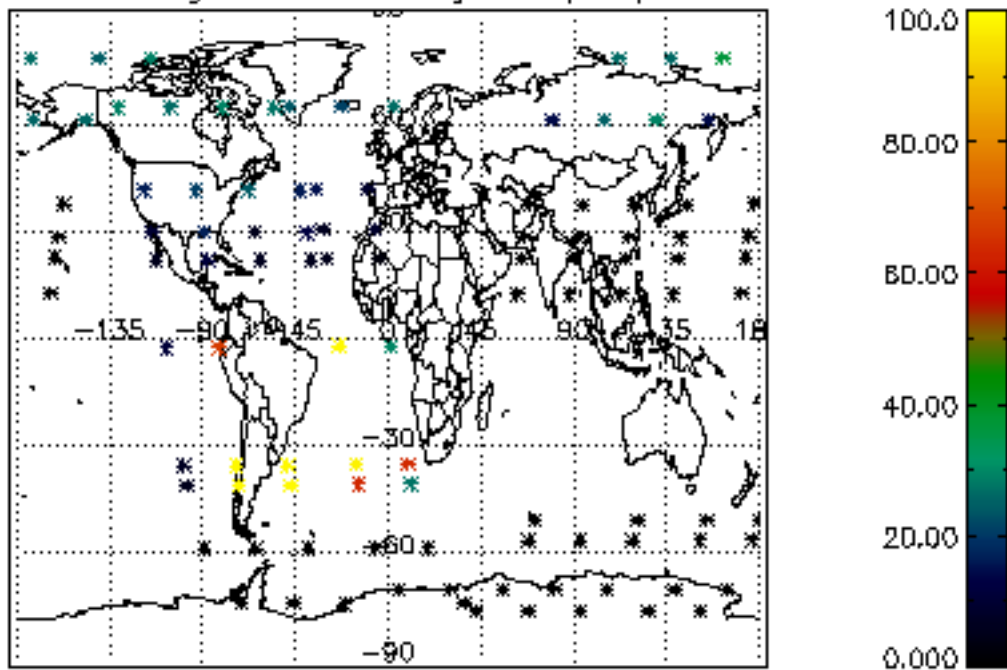




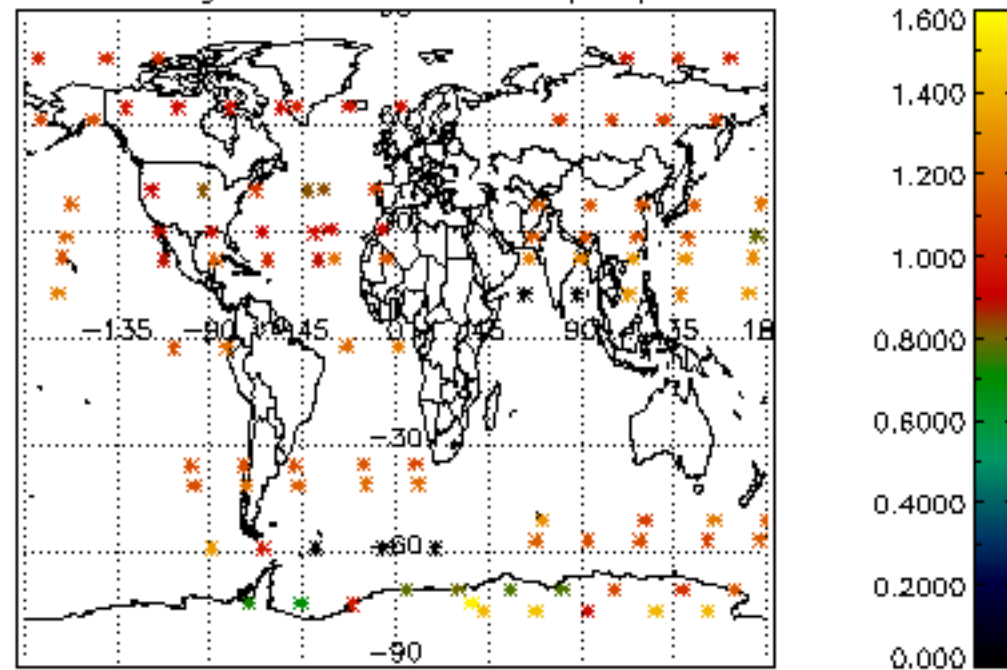




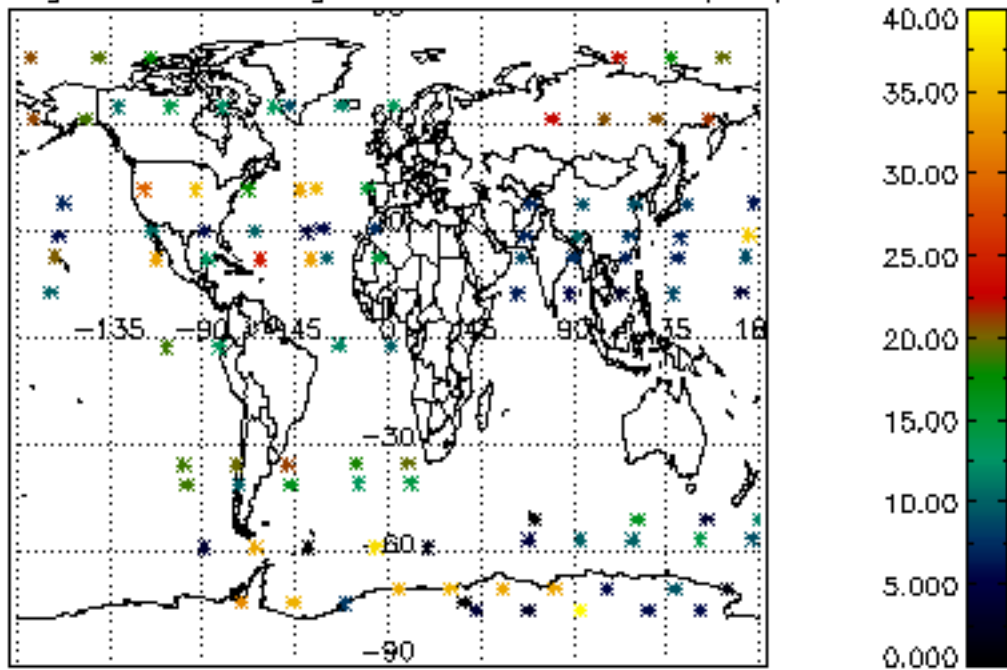
Percentage of cosmic ray hits per profile



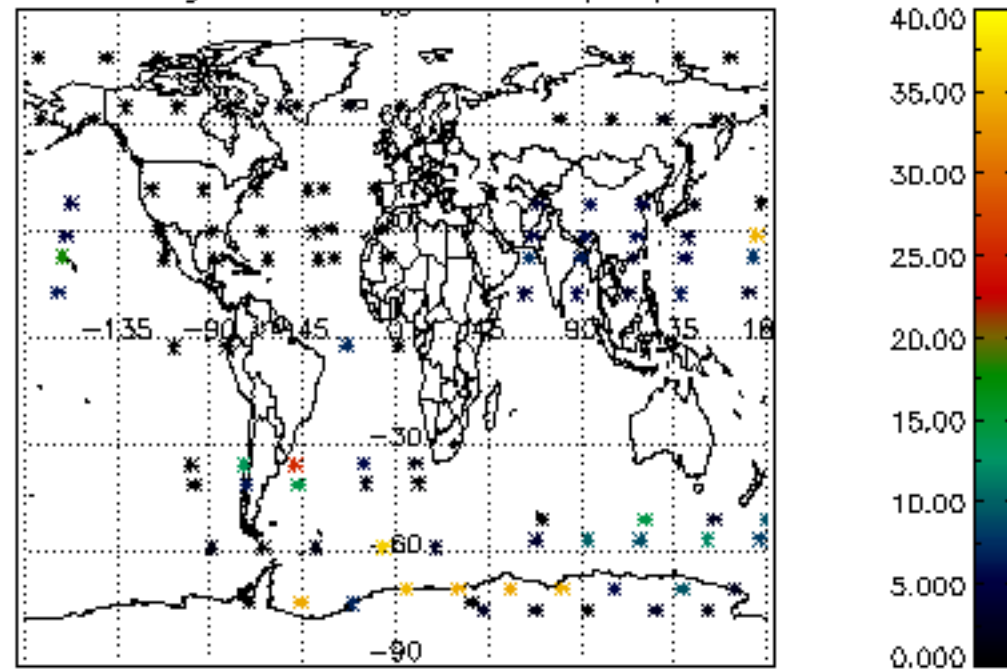
Percentage of datation errors per profile



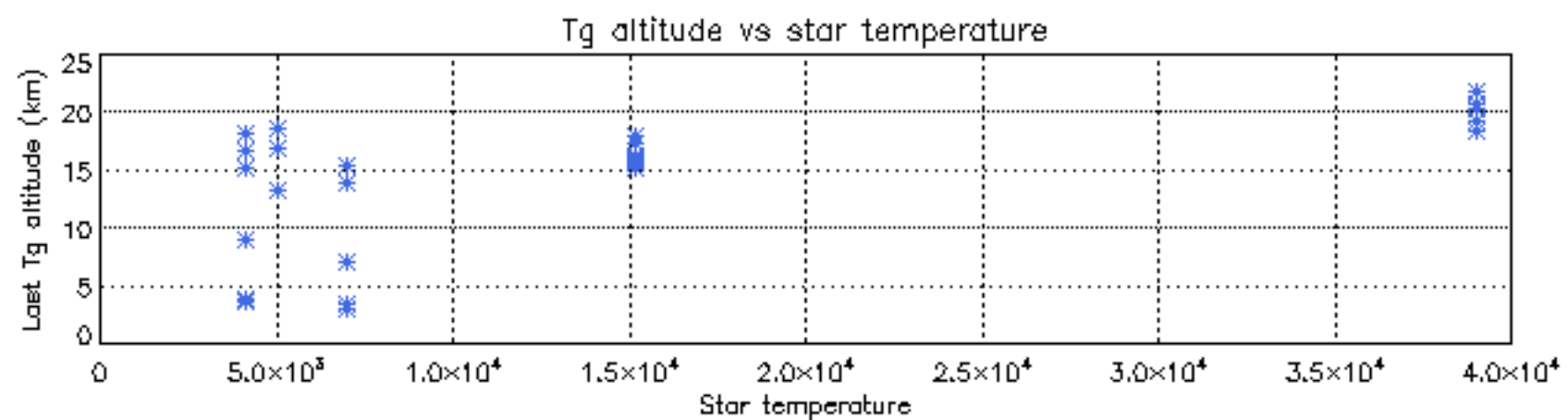
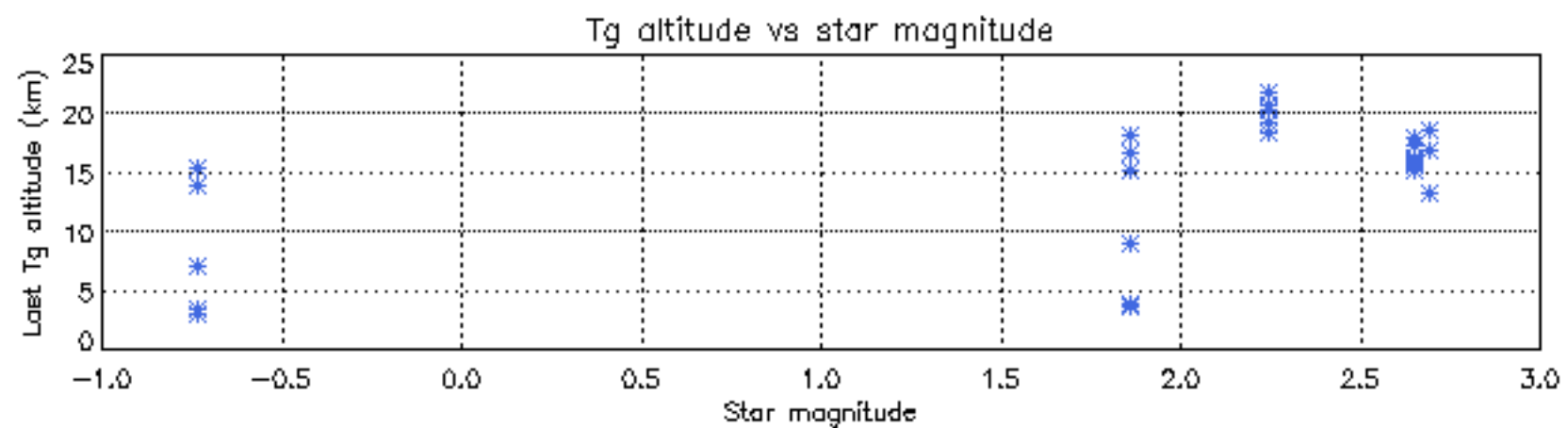
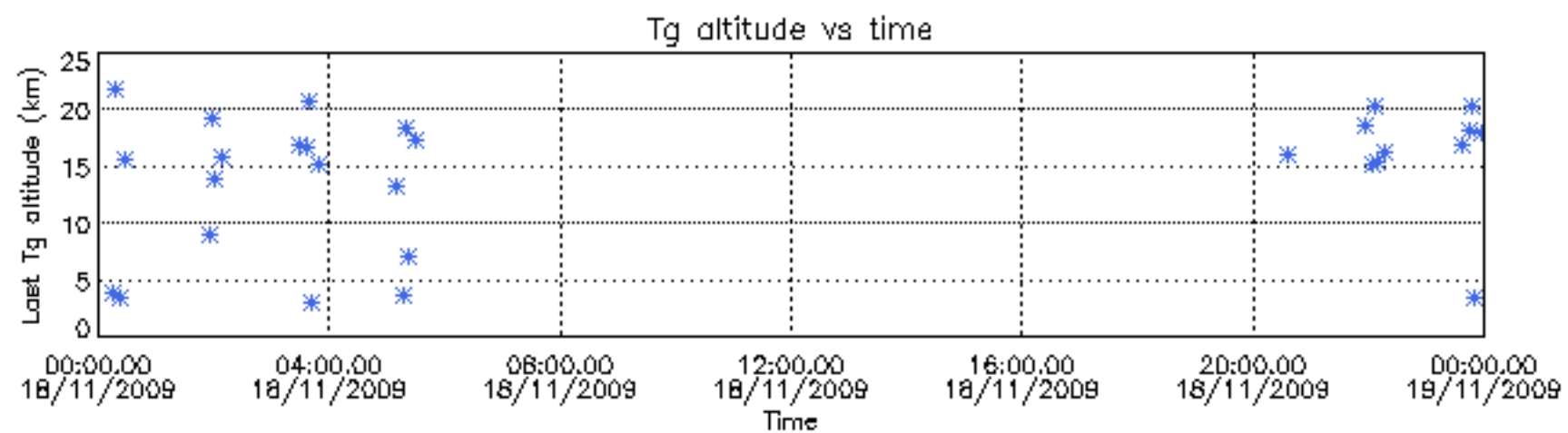
Percentage of star falling outside central band per profile



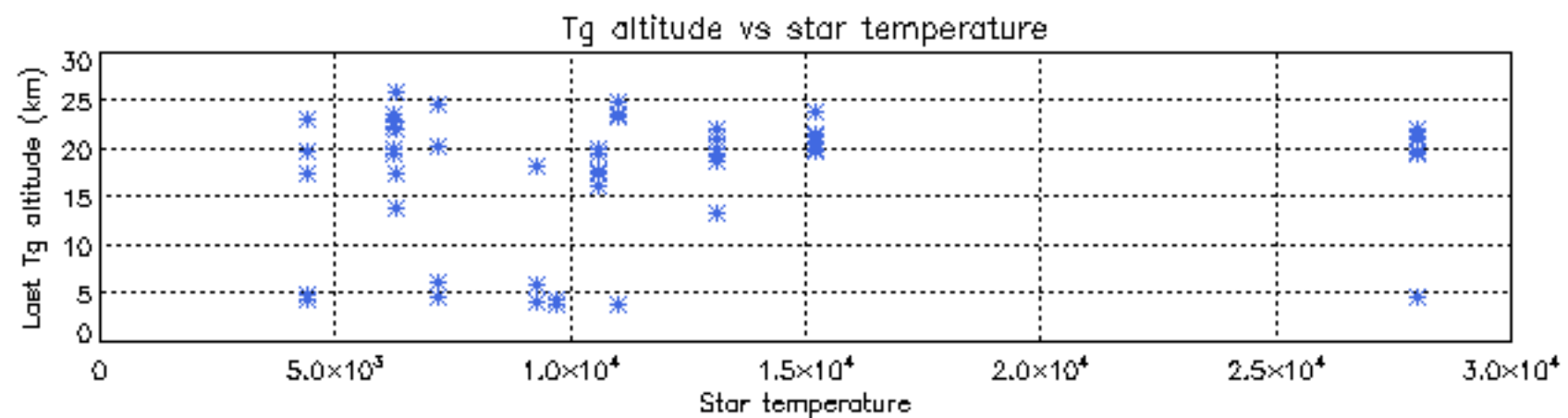
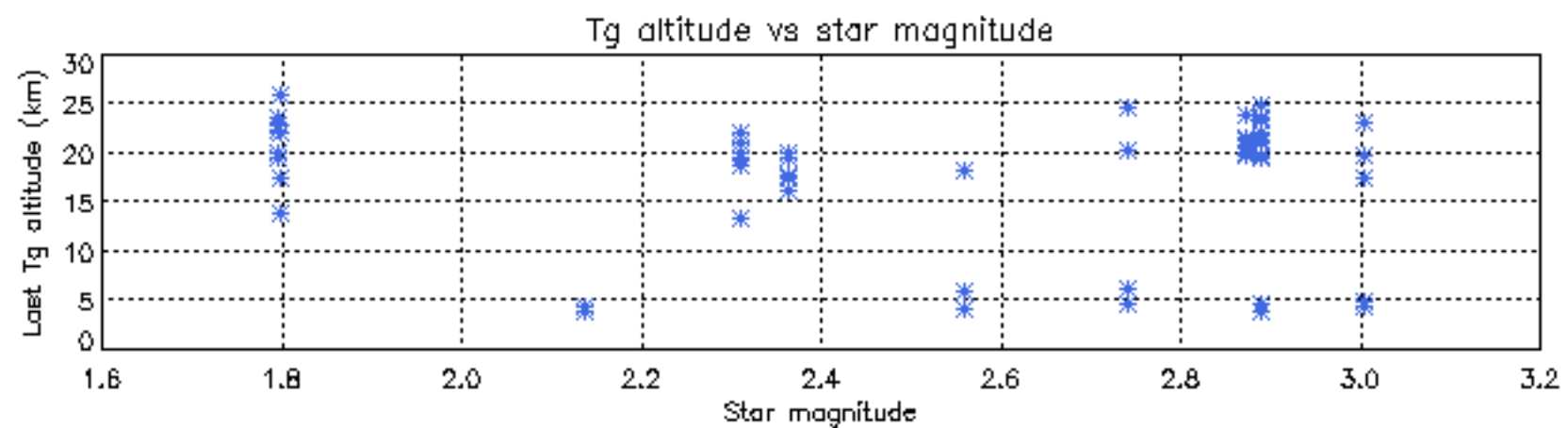
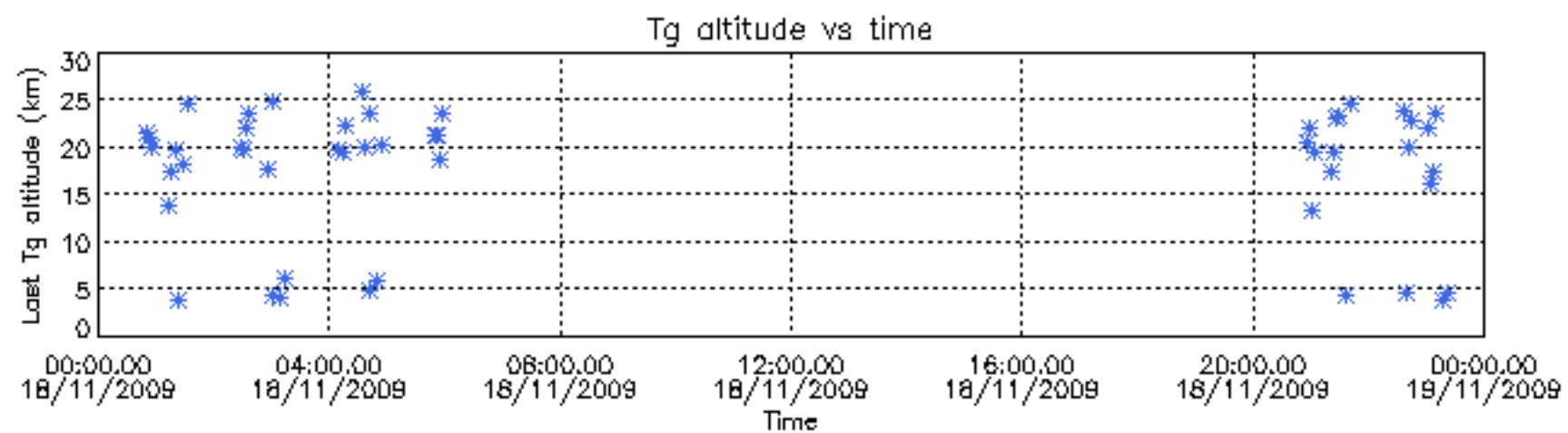
Percentage of saturation errors per profile



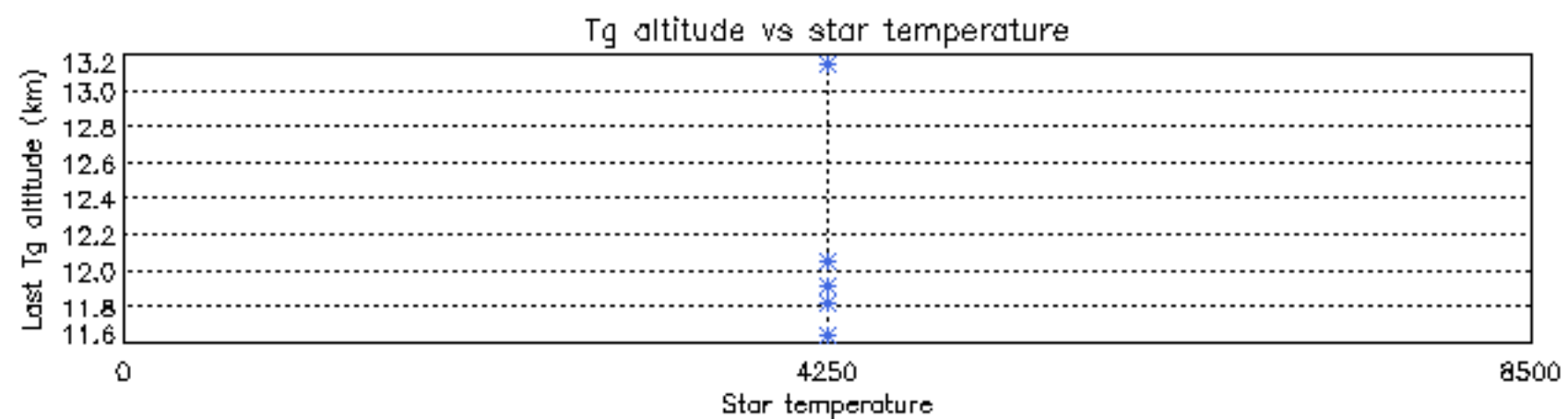
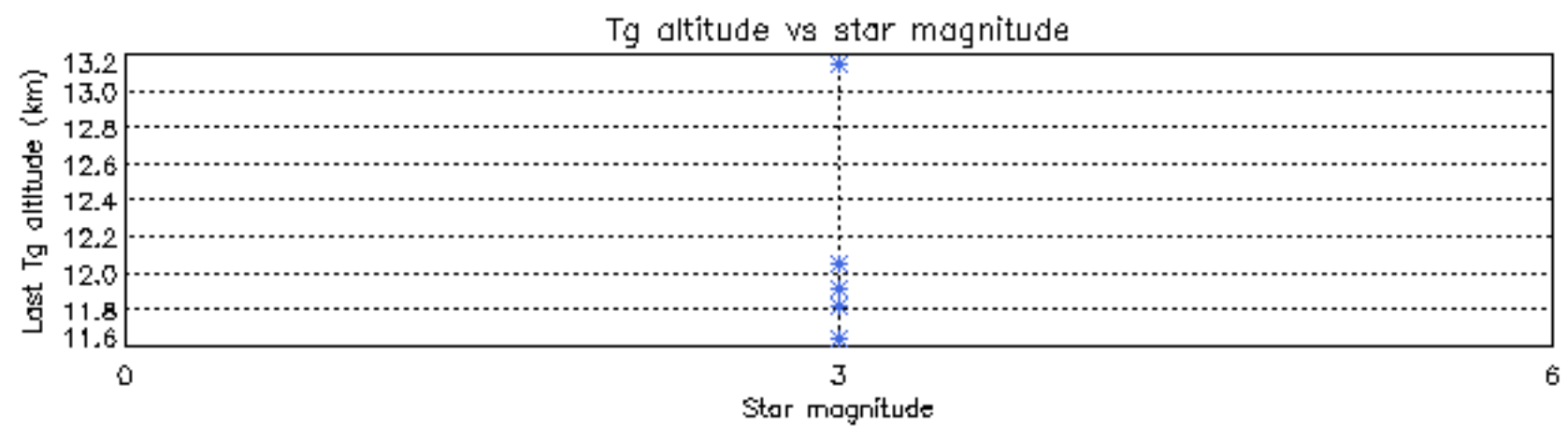
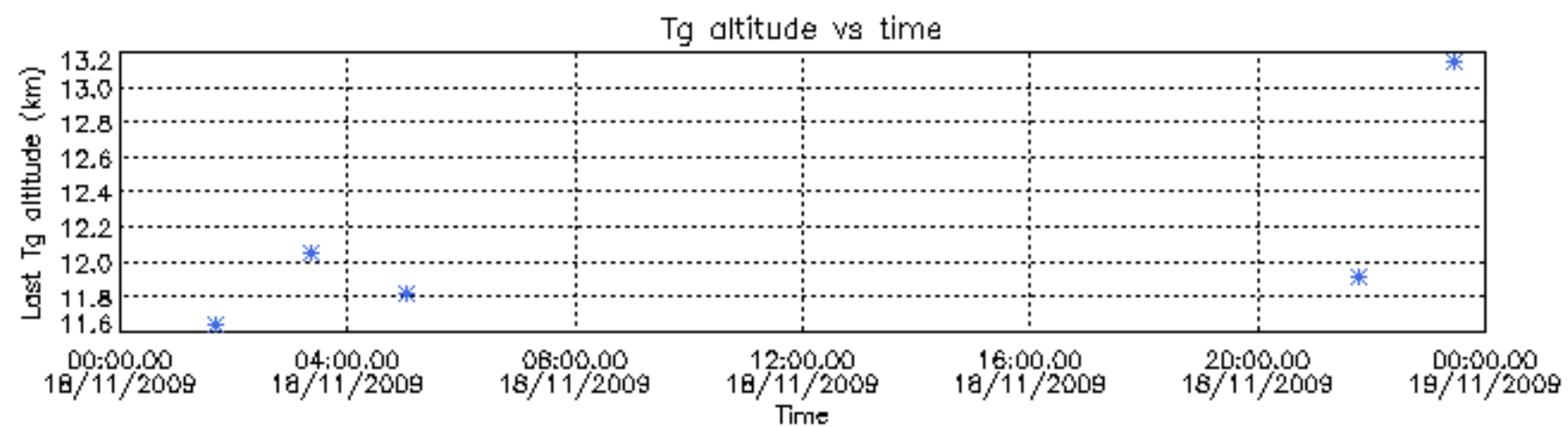
Tangent altitude at which the star is lost

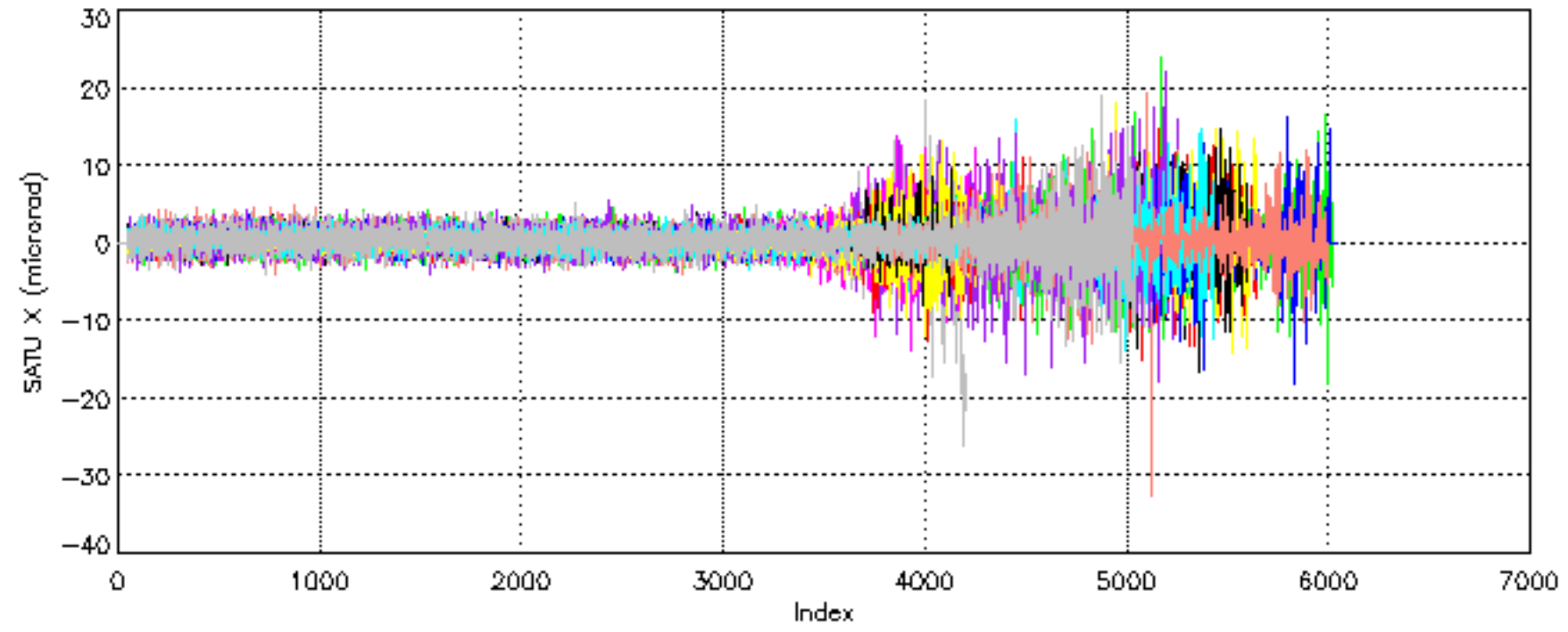


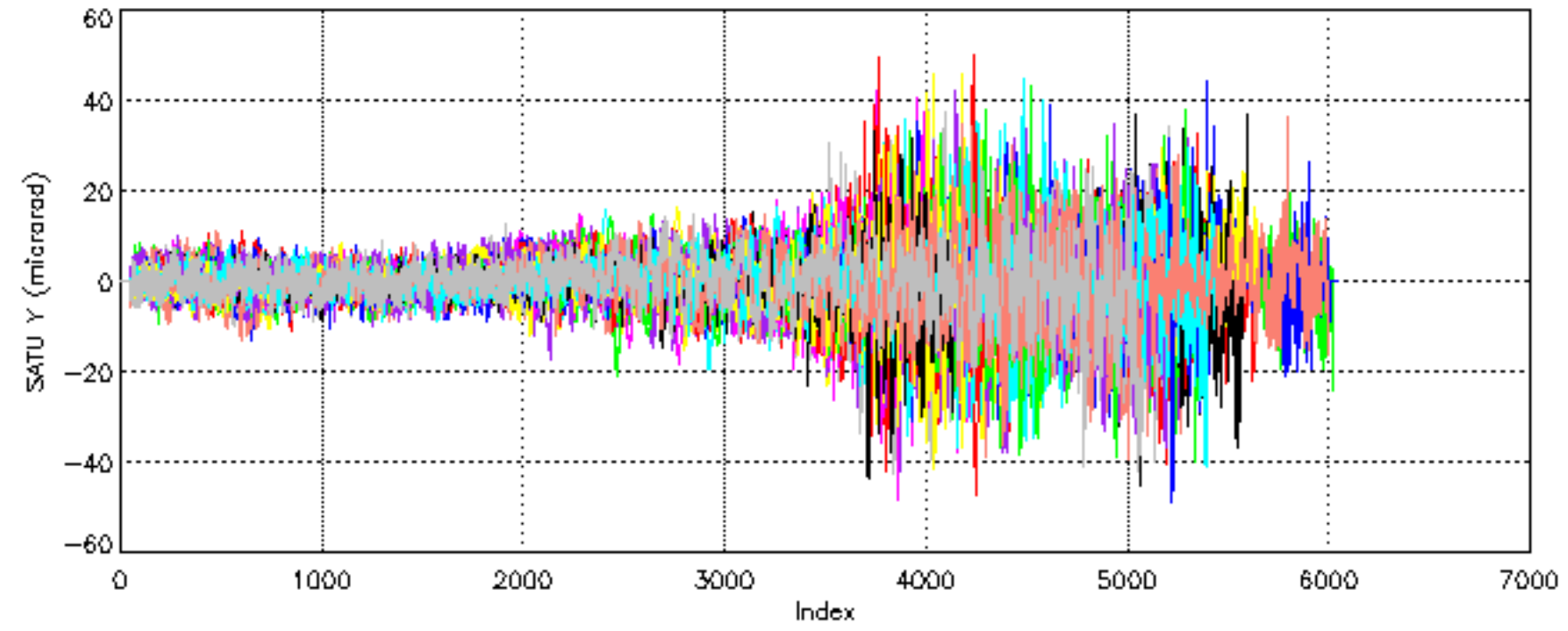
Tangent altitude at which the star is lost

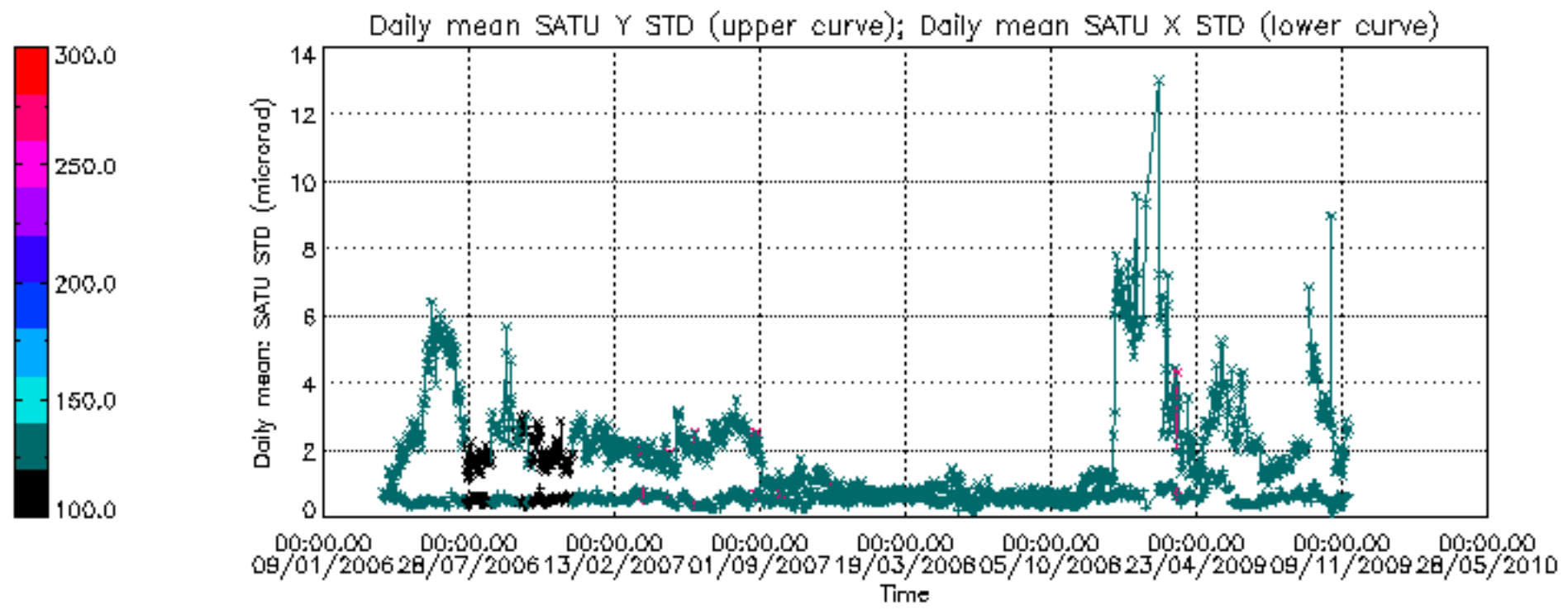


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20091101_003421_000055302083_00474_40107_8843.N1

1; -534.0; 01-NOV-2009 00:34:21; Dark ; 68.5; 48; 30Alp Hya ; 1.98; 4100;occ; 137; 0;40107
 2; -19.6; 01-NOV-2009 00:42:55; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;40107
 3; 197.6; 01-NOV-2009 00:46:32; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;40108
 4; 348.1; 01-NOV-2009 00:49:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40108
 5; 524.1; 01-NOV-2009 00:51:59; Dark ; 51.0; 2; Alp Car ;-0.74; 7000;occ; 102; 0;40108
 6; 908.8; 01-NOV-2009 00:58:23; Dark ; 29.0; 108; Alp Col ; 2.65; 15200;occ; 58; 0;40108
 7; 2010.3; 01-NOV-2009 01:16:45; Dark ; 58.0; 94; 92Alp Cet ; 2.53; 3100;occ; 116; 0;40108
 8; 2273.3; 01-NOV-2009 01:21:08; Bright; 40.0; 105; 6Bet Ari ; 2.64; 8900;occ; 80; 0;40108
 9; 2538.3; 01-NOV-2009 01:25:33; Bright; 39.5; 173; 4Bet Tri ; 3.00; 8900;occ; 79; 0;40108
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6; 2928.5; 01-NOV-2009 21:39:14; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;40120
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 9; 4004.4; 04-NOV-2009 10:18:44; Bright; 37.0; 82; 48Bet UMA ; 2.37; 10600;occ; 74; 0;40156
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11; 4686.1; 04-NOV-2009 10:30:05; Bright; 40.5; 96; 68Del Leo ; 2.56; 9300;occ; 81; 0;40156
12; 4769.2; 04-NOV-2009 10:31:28; Bright; 45.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 109; 0;40156
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 4; 2525.4; 04-NOV-2009 13:15:16; Bright; 38.0; 173; 4Bet Tri ; 3.00; 8900;occ; 76; 0;40158
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 11; 4686.8; 04-NOV-2009 13:51:18; Bright; 38.5; 96; 68Del Leo ; 2.56; 9300;occ; 77; 0;40158
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 13; 4972.4; 04-NOV-2009 13:56:03; Dark ; 61.5; 22; 32Alp Leo ; 1.36; 15200;occ; 123; 0;40158
 14; 6061.7; 04-NOV-2009 14:14:13; Dark ; 52.0; 65; Lam Vel ; 2.20; 4400;occ; 104; 0;40158
 15; 6206.6; 04-NOV-2009 14:16:37; Dark ; 50.5; 46; Del Vel ; 1.95; 10600;occ; 101; 0;40158
 16; 6297.2; 04-NOV-2009 14:18:08; Dark ; 53.0; 70; Zet Pup ; 2.25; 39000;occ; 106; 0;40158
 17; 6431.8; 04-NOV-2009 14:20:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40158
 18; 6599.5; 04-NOV-2009 14:23:10; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;40158
 19; 6993.3; 04-NOV-2009 14:29:44; Dark ; 61.0; 108; Alp Col ; 2.65; 15200;occ; 122; 0;40158

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 15; 6207.4; 04-NOV-2009 15:57:14; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;40159
 16; 6298.5; 04-NOV-2009 15:58:45; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40159
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 12; 4974.2; 04-NOV-2009 17:17:17; Dark ; 75.5; 22; 32Alp Leo ; 1.36; 15200;occ; 151; 0;40160
 13; 6063.8; 04-NOV-2009 17:35:27; Dark ; 53.5; 65; Lam Vel ; 2.20; 4400;occ; 107; 0;40160
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 15; 6299.7; 04-NOV-2009 17:39:22; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40160
 16; 6433.8; 04-NOV-2009 17:41:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40160

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4; 2524.7; 04-NOV-2009 18:17:03; Bright; 38.0; 173; 4Bet Tri ; 3.00; 8900;occ; 76; 0;40161
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6; 2647.4; 04-NOV-2009 19:59:42; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;40162
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13; 4975.4; 04-NOV-2009 20:38:30; Dark ; 64.0; 22; 32Alp Leo ; 1.36; 15200;occ; 128; 0;40162
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3; 268.5; 05-NOV-2009 00:21:51; Dark ; 53.5; 70; Zet Pup ; 2.25; 39000;occ; 107; 0;40165
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 13; 6217.4; 05-NOV-2009 15:25:47; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;40173
 14; 6315.6; 05-NOV-2009 15:27:25; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40173
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 4; 2521.9; 05-NOV-2009 16:04:48; Bright; 37.5; 173; 4Bet Tri ; 3.00; 8900;occ; 75; 0;40174
 5; 2645.1; 05-NOV-2009 16:06:51; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;40174
 6; 2813.9; 05-NOV-2009 16:09:40; Bright; 49.5; 149; 45Eps Per ; 2.89; 30000;occ; 99; 0;40174
 7; 3905.1; 05-NOV-2009 16:27:51; Bright; 40.0; 36; 50Alp UMa ; 1.80; 6300;occ; 80; 0;40174
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 9; 4229.9; 05-NOV-2009 16:33:16; Bright; 38.0; 174; 52Psi UMa ; 3.00; 4400;occ; 76; 0;40174
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9; 2878.0; 06-NOV-2009 02:14:19; Bright; 40.5; 35; 33Alp Per ; 1.79; 6250;occ; 81; 0;40180
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3; 2262.1; 10-NOV-2009 10:01:11; Bright; 36.5; 105; 6Bet Ari ; 2.64; 8900;occ; 73; 0;40242
4; 2510.2; 10-NOV-2009 10:05:19; Bright; 37.0; 173; 4Bet Tri ; 3.00; 8900;occ; 74; 0;40242
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5; 2634.0; 10-NOV-2009 11:47:59; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;40243
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7; 2846.3; 10-NOV-2009 11:51:31; Bright; 42.5; 35; 33Alp Per ; 1.79; 6250;occ; 85; 0;40243
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 8; 3834.0; 28-NOV-2009 09:21:14; Bright; 47.0; 36; 50Alp UMA ; 1.80; 6300;occ; 94; 0;40499
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21; 6923.4; 28-NOV-2009 11:53:20; Dark ; 67.0; 117; Pi Pup ; 2.71; 3800;occ; 134; 0;40500
22; 7156.4; 28-NOV-2009 11:57:13; Dark ; 34.0; 23; 21Eps CMA ; 1.50; 26000;occ; 68; 0;40500
23; 7221.7; 28-NOV-2009 11:58:18; Dark ; 55.5; 177; 1Zet CMA ; 3.02; 26000;occ; 111; 0;40500
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 4; 2479.8; 28-NOV-2009 12:19:52; Bright; 37.5; 150; 44Zet Per ; 2.89; 28000;occ; 75; 0;40501
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 23; 7157.2; 28-NOV-2009 13:37:49; Dark ; 37.0; 23; 21Eps CMa ; 1.50; 26000;occ; 74; 0;40501
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 3; 2245.5; 28-NOV-2009 13:56:34; Bright; 54.0; 13; 87Alp Tau ; 0.87; 3800;occ; 108; 0;40502
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 5; 2479.6; 28-NOV-2009 14:00:28; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;40502
 6; 2626.7; 28-NOV-2009 14:02:55; Bright; 53.0; 149; 45Eps Per ; 2.89; 30000;occ; 106; 0;40502
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 21; 6610.7; 28-NOV-2009 15:09:19; Dark ; 51.5; 34; Gam2Vel ; 1.79; 23000;occ; 103; 0;40502
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 23; 6925.4; 28-NOV-2009 15:14:33; Dark ; 58.0; 117; Pi Pup ; 2.71; 3800;occ; 116; 0;40502
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 5; 2479.5; 28-NOV-2009 15:41:03; Bright; 40.5; 150; 44Zet Per ; 2.89; 28000;occ; 81; 0;40503
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