

GOMOS Daily Report 20-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	22NOV2009 04:34:01
Data source version	GOMOS/5.00L04
Start time of products	20NOV2009 00:52:32
Stop time of products	20NOV2009 23:58:04
Store outputs in DB	Yes
Nb of level 1b prods	103
Nb of prods with errors	0

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

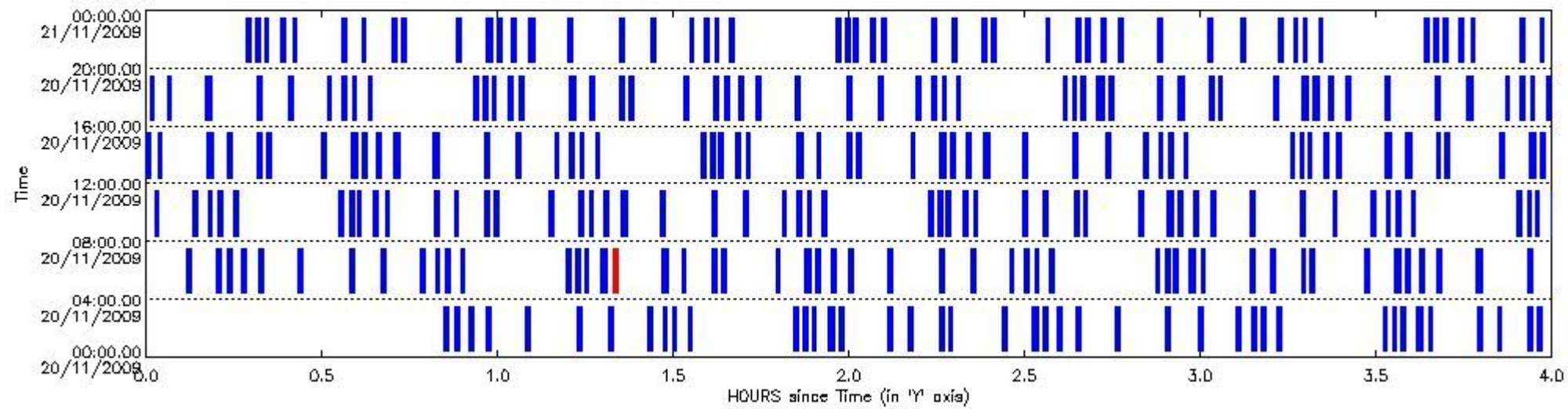
2.1 Level 0 products arrived in PCF (see template [here](#))

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
20-NOV-2009 05:19:40	12Alp2CVn	152	40382

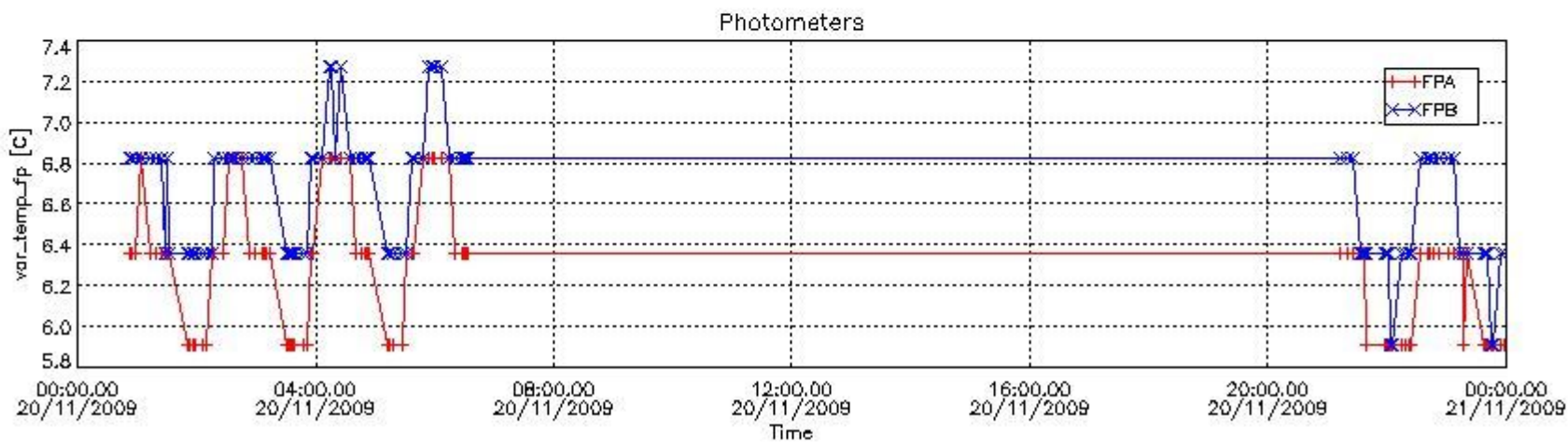
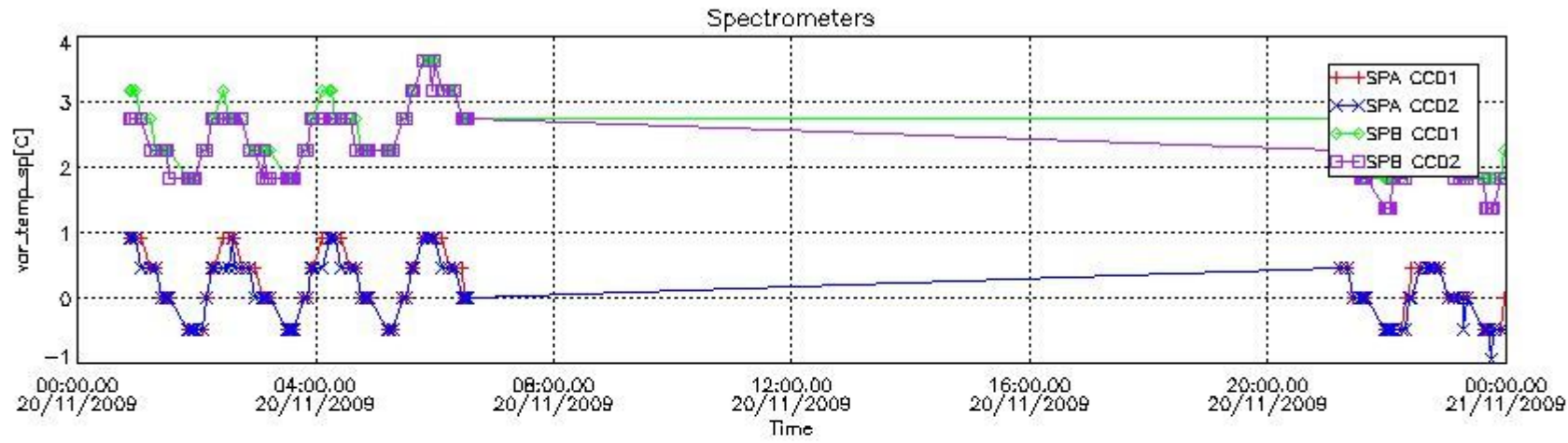
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20091120_005232_000000492084_00246_40380_3990.N1	20-NOV-2009 00:52:32	Dark	49.000	41	Eps Car	1.8600	4100.0	98	40380	No
2	GOM_TRA_1PNPDE20091120_005459_000000502084_00246_40380_3991.N1	20-NOV-2009 00:54:59	Dark	50.000	70	Zet Pup	2.2460	39000.	100	40380	No
3	GOM_TRA_1PNPDE20091120_005803_000000542084_00246_40380_3992.N1	20-NOV-2009 00:58:03	Dark	54.000	2	Alp Car	-0.73600	7000.0	108	40380	No
4	GOM_TRA_1PNPDE20091120_010443_000000542084_00246_40380_3993.N1	20-NOV-2009 01:04:43	Dark	53.500	108	Alp Col	2.6520	15200.	107	40380	No
5	GOM_TRA_1PNPDE20091120_011330_000000472084_00246_40380_3994.N1	20-NOV-2009 01:13:30	Straylight	47.000	165	34Gam Eri	2.9500	3200.0	94	40380	No
6	GOM_TRA_1PNPDE20091120_011859_000000462084_00246_40380_3995.N1	20-NOV-2009 01:18:59	Twilight_and_stray	46.000	94	92Alp Cet	2.5260	3100.0	92	40380	No
7	GOM_TRA_1PNPDE20091120_012536_000000422084_00246_40380_3996.N1	20-NOV-2009 01:25:36	Bright	42.000	146	25Eta Tau	2.8730	15200.	84	40380	No
8	GOM_TRA_1PNPDE20091120_012810_000000442084_00246_40380_3997.N1	20-NOV-2009 01:28:10	Bright	44.000	150	44Zet Per	2.8900	28000.	88	40380	No
9	GOM_TRA_1PNPDE20091120_012953_000000392084_00246_40380_3998.N1	20-NOV-2009 01:29:53	Bright	39.000	79	26Bet Per	2.3100	13100.	78	40380	No
10	GOM_TRA_1PNPDE20091120_013229_000000402084_00246_40380_3999.N1	20-NOV-2009 01:32:29	Bright	39.500	175	39Del Per	3.0100	19400.	79	40380	No

11	GOM_TRA_1PNPDE20091120_015033_000000452084_00246_40380_4000.N1	20-NOV-2009 01:50:33	Bright	45.000	36	50Alp UMa	1.8000	6300.0	90	40380	No
12	GOM_TRA_1PNPDE20091120_015212_000000442084_00246_40380_4001.N1	20-NOV-2009 01:52:12	Bright	44.000	82	48Bet UMa	2.3650	10600.	88	40380	No
13	GOM_TRA_1PNPDE20091120_015337_000000382084_00246_40380_4002.N1	20-NOV-2009 01:53:37	Bright	37.500	87	64Gam UMa	2.4330	11000.	75	40380	No
14	GOM_TRA_1PNPDE20091120_015622_000000672084_00246_40380_4003.N1	20-NOV-2009 01:56:22	Bright	67.000	174	52Psi UMa	3.0040	4400.0	134	40380	No
15	GOM_TRA_1PNPDE20091120_015822_000000512084_00246_40380_4004.N1	20-NOV-2009 01:58:22	Bright	50.500	152	12Alp2CVn	2.8900	11000.	101	40380	No
16	GOM_TRA_1PNPDE20091120_020642_000000482084_00246_40380_4005.N1	20-NOV-2009 02:06:42	Bright	48.000	62	94Bet Leo	2.1360	9700.0	96	40380	No
17	GOM_TRA_1PNPDE20091120_021012_000000442084_00246_40380_4006.N1	20-NOV-2009 02:10:12	Bright	43.500	121	29Gam Vir	2.7400	7200.0	87	40380	No
18	GOM_TRA_1PNPDE20091120_021523_000000452084_00246_40380_3999.N1	20-NOV-2009 02:15:23	Twilight	44.500	100	4Gam Crv	2.5800	13100.	89	40380	No
19	GOM_TRA_1PNPDE20091120_021655_000000462084_00246_40380_4000.N1	20-NOV-2009 02:16:55	Twilight	46.000	171	2Eps Crv	3.0010	4250.0	92	40380	No
20	GOM_TRA_1PNPDE20091120_022617_000000422084_00246_40380_4001.N1	20-NOV-2009 02:26:17	Dark	41.500	113	Mu Vel	2.6920	5000.0	83	40380	No
21	GOM_TRA_1PNPDE20091120_023309_000000532084_00247_40381_4002.N1	20-NOV-2009 02:33:09	Dark	52.500	41	Eps Car	1.8600	4100.0	105	40381	No
22	GOM_TRA_1PNPDE20091120_023536_000000502084_00247_40381_4003.N1	20-NOV-2009 02:35:36	Dark	50.000	70	Zet Pup	2.2460	39000.	100	40381	No
23	GOM_TRA_1PNPDE20091120_023839_000000562084_00247_40381_4004.N1	20-NOV-2009 02:38:39	Dark	55.500	2	Alp Car	-0.73600	7000.0	111	40381	No
24	GOM_TRA_1PNPDE20091120_024519_000000492084_00247_40381_4005.N1	20-NOV-2009 02:45:19	Dark	48.500	108	Alp Col	2.6520	15200.	97	40381	No
25	GOM_TRA_1PNPDE20091120_025406_000000512084_00247_40381_4006.N1	20-NOV-2009 02:54:06	Straylight	50.500	165	34Gam Eri	2.9500	3200.0	101	40381	No
26	GOM_TRA_1PNPDE20091120_025935_000000452084_00247_40381_4007.N1	20-NOV-2009 02:59:35	Twilight	44.500	94	92Alp Cet	2.5260	3100.0	89	40381	No
27	GOM_TRA_1PNPDE20091120_030612_000000442084_00247_40381_4008.N1	20-NOV-2009 03:06:12	Bright	43.500	146	25Eta Tau	2.8730	15200.	87	40381	No
28	GOM_TRA_1PNPDE20091120_030845_000000432084_00247_40381_4009.N1	20-NOV-2009 03:08:45	Bright	43.000	150	44Zet Per	2.8900	28000.	86	40381	No
29	GOM_TRA_1PNPDE20091120_031029_000000392084_00247_40381_4010.N1	20-NOV-2009 03:10:29	Bright	38.500	79	26Bet Per	2.3100	13100.	77	40381	No
30	GOM_TRA_1PNPDE20091120_031304_000000392084_00247_40381_4011.N1	20-NOV-2009 03:13:04	Bright	38.500	175	39Del Per	3.0100	19400.	77	40381	No
31	GOM_TRA_1PNPDE20091120_033109_000000462084_00247_40381_4004.N1	20-NOV-2009 03:31:09	Bright	45.500	36	50Alp UMa	1.8000	6300.0	91	40381	No
32	GOM_TRA_1PNPDE20091120_033248_000000442084_00247_40381_4005.N1	20-NOV-2009 03:32:48	Bright	44.000	82	48Bet UMa	2.3650	10600.	88	40381	No
33	GOM_TRA_1PNPDE20091120_033413_000000532084_00247_40381_4006.N1	20-NOV-2009 03:34:13	Bright	52.500	87	64Gam UMa	2.4330	11000.	105	40381	No
34	GOM_TRA_1PNPDE20091120_033658_000000672084_00247_40381_4007.N1	20-NOV-2009 03:36:58	Bright	67.000	174	52Psi UMa	3.0040	4400.0	134	40381	No
35	GOM_TRA_1PNPDE20091120_033858_000000352084_00247_40381_4008.N1	20-NOV-2009 03:38:58	Bright	34.500	152	12Alp2CVn	2.8900	11000.	69	40381	No
36	GOM_TRA_1PNPDE20091120_034718_000000462084_00247_40381_4009.N1	20-NOV-2009 03:47:18	Bright	45.500	62	94Bet Leo	2.1360	9700.0	91	40381	No
37	GOM_TRA_1PNPDE20091120_035048_000000392084_00247_40381_4010.N1	20-NOV-2009 03:50:48	Bright	39.000	121	29Gam Vir	2.7400	7200.0	78	40381	No
38	GOM_TRA_1PNPDE20091120_035559_000000452084_00247_40381_4011.N1	20-NOV-2009 03:55:59	Twilight	45.000	100	4Gam Crv	2.5800	13100.	90	40381	No
39	GOM_TRA_1PNPDE20091120_035732_000000462084_00247_40381_4012.N1	20-NOV-2009 03:57:32	Twilight	46.000	171	2Eps Crv	3.0010	4250.0	92	40381	No
40	GOM_TRA_1PNPDE20091120_040654_000000412084_00247_40381_4013.N1	20-NOV-2009 04:06:54	Dark	41.000	113	Mu Vel	2.6920	5000.0	82	40381	No
41	GOM_TRA_1PNPDE20091120_041346_000000562084_00248_40382_4014.N1	20-NOV-2009 04:13:46	Dark	55.500	41	Eps Car	1.8600	4100.0	111	40382	No
42	GOM_TRA_1PNPDE20091120_041614_000000502084_00248_40382_4015.N1	20-NOV-2009 04:16:14	Dark	50.000	70	Zet Pup	2.2460	39000.	100	40382	No
43	GOM_TRA_1PNPDE20091120_041916_000000502084_00248_40382_4016.N1	20-NOV-2009 04:19:16	Dark	50.000	2	Alp Car	-0.73600	7000.0	100	40382	No
44	GOM_TRA_1PNPDE20091120_042556_000000512084_00248_40382_4017.N1	20-NOV-2009 04:25:56	Dark	50.500	108	Alp Col	2.6520	15200.	101	40382	No
45	GOM_TRA_1PNPDE20091120_043443_000000512084_00248_40382_4018.N1	20-NOV-2009 04:34:43	Straylight	50.500	165	34Gam Eri	2.9500	3200.0	101	40382	No
46	GOM_TRA_1PNPDE20091120_044011_000000462084_00248_40382_4019.N1	20-NOV-2009 04:40:11	Twilight	46.000	94	92Alp Cet	2.5260	3100.0	92	40382	No
47	GOM_TRA_1PNPDE20091120_044647_000000432084_00248_40382_4020.N1	20-NOV-2009 04:46:47	Bright	42.500	146	25Eta Tau	2.8730	15200.	85	40382	No
48	GOM_TRA_1PNPDE20091120_044921_000000432084_00248_40382_4021.N1	20-NOV-2009 04:49:21	Bright	43.000	150	44Zet Per	2.8900	28000.	86	40382	No
49	GOM_TRA_1PNPDE20091120_045105_000000402084_00248_40382_4022.N1	20-NOV-2009 04:51:05	Bright	39.500	79	26Bet Per	2.3100	13100.	79	40382	No
50	GOM_TRA_1PNPDE20091120_045340_000000382084_00248_40382_4023.N1	20-NOV-2009 04:53:40	Bright	37.500	175	39Del Per	3.0100	19400.	75	40382	No
51	GOM_TRA_1PNPDE20091120_051145_000000412084_00248_40382_4014.N1	20-NOV-2009 05:11:45	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	40382	No
52	GOM_TRA_1PNPDE20091120_051324_000000442084_00248_40382_4015.N1	20-NOV-2009 05:13:24	Bright	44.000	82	48Bet UMa	2.3650	10600.	88	40382	No
53	GOM_TRA_1PNPDE20091120_051449_000000422084_00248_40382_4016.N1	20-NOV-2009 05:14:49	Bright	41.500	87	64Gam UMa	2.4330	11000.	83	40382	No
54	GOM_TRA_1PNPDE20091120_051734_000000672084_00248_40382_4017.N1	20-NOV-2009 05:17:34	Bright	67.000	174	52Psi UMa	3.0040	4400.0	134	40382	No
55	GOM_TRA_1PNPDE20091120_052755_000000652084_00248_40382_4018.N1	20-NOV-2009 05:27:55	Bright	65.000	62	94Bet Leo	2.1360	9700.0	130	40382	No
56	GOM_TRA_1PNPDE20091120_053125_000000392084_00248_40382_4019.N1	20-NOV-2009 05:31:25	Bright	38.500	121	29Gam Vir	2.7400	7200.0	77	40382	No
57	GOM_TRA_1PNPDE20091120_053636_000000462084_00248_40382_4020.N1	20-NOV-2009 05:36:36	Twilight	46.000	100	4Gam Crv	2.5800	13100.	92	40382	No
58	GOM_TRA_1PNPDE20091120_053808_000000492084_00248_40382_4021.N1	20-NOV-2009 05:38:08	Twilight	49.000	171	2Eps Crv	3.0010	4250.0	98	40382	No
59	GOM_TRA_1PNPDE20091120_054730_000000422084_00248_40382_4022.N1	20-NOV-2009 05:47:30	Dark	42.000	113	Mu Vel	2.6920	5000.0	84	40382	No
60	GOM_TRA_1PNPDE20091120_055422_000000472084_00249_40383_4023.N1	20-NOV-2009 05:54:22	Dark	46.500	41	Eps Car	1.8600	4100.0	93	40383	No
61	GOM_TRA_1PNPDE20091120_055651_000000502084_00249_40383_4024.N1	20-NOV-2009 05:56:51	Dark	50.000	70	Zet Pup	2.2460	39000.	100	40383	No
62	GOM_TRA_1PNPDE20091120_055953_000000482084_00249_40383_4025.N1	20-NOV-2009 05:59:53	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	40383	No
63	GOM_TRA_1PNPDE20091120_060632_000000532084_00249_40383_4026.N1	20-NOV-2009 06:06:32	Dark	53.000	108	Alp Col	2.6520	15200.	106	40383	No
64	GOM_TRA_1PNPDE20091120_061519_000000502084_00249_40383_4027.N1	20-NOV-2009 06:15:19	Straylight	49.500	165	34Gam Eri	2.9500	3200.0	99	40383	No
65	GOM_TRA_1PNPDE20091120_062047_000000452084_00249_40383_4028.N1	20-NOV-2009 06:20:47	Twilight	45.000	94	92Alp Cet	2.5260	3100.0	90	40383	No
66	GOM_TRA_1PNPDE20091120_062723_000000432084_00249_40383_4029.N1	20-NOV-2009 06:27:23	Bright	42.500	146	25Eta Tau	2.8730	15200.	85	40383	No
67	GOM_TRA_1PNPDE20091120_062957_000000422084_00249_40383_4030.N1	20-NOV-2009 06:29:57	Bright	42.000	150	44Zet Per	2.8900	28000.	84	40383	No
68	GOM_TRA_1PNPDE20091120_063140_000000392084_00249_40383_4031.N1	20-NOV-2009 06:31:40	Bright	38.500	79	26Bet Per	2.3100	13100.	77	40383	No
69	GOM_TRA_1PNPDE20091120_063416_000000382084_00249_40383_4032.N1	20-NOV-2009 06:34:16	Bright	38.000	175	39Del Per	3.0100	19400.	76	40383	No

70	GOM_TRA_1PNPDE20091120_211201_000000522084_00258_40392_4049.N1	20-NOV-2009 21:12:01	Dark	52.000	108	Alp Col	2.6520	15200.	104	40392	No
71	GOM_TRA_1PNPDE20091120_212043_000000482084_00258_40392_4050.N1	20-NOV-2009 21:20:43	Straylight	48.000	165	34Gam Eri	2.9500	3200.0	96	40392	No
72	GOM_TRA_1PNPDE20091120_212610_000000462084_00258_40392_4051.N1	20-NOV-2009 21:26:10	Twilight	46.000	94	92Alp Cet	2.5260	3100.0	92	40392	No
73	GOM_TRA_1PNPDE20091120_213243_000000402084_00258_40392_4052.N1	20-NOV-2009 21:32:43	Bright	39.500	146	25Eta Tau	2.8730	15200.	79	40392	No
74	GOM_TRA_1PNPDE20091120_213516_000000432084_00258_40392_4053.N1	20-NOV-2009 21:35:16	Bright	42.500	150	44Zet Per	2.8900	28000.	85	40392	No
75	GOM_TRA_1PNPDE20091120_213702_000000402084_00258_40392_4054.N1	20-NOV-2009 21:37:02	Bright	39.500	79	26Bet Per	2.3100	13100.	79	40392	No
76	GOM_TRA_1PNPDE20091120_213936_000000382084_00258_40392_4055.N1	20-NOV-2009 21:39:36	Bright	38.000	175	39Del Per	3.0100	19400.	76	40392	No
77	GOM_TRA_1PNPDE20091120_215742_000000452084_00258_40392_4056.N1	20-NOV-2009 21:57:42	Bright	44.500	36	50Alp UMa	1.8000	6300.0	89	40392	No
78	GOM_TRA_1PNPDE20091120_215920_000000482084_00258_40392_4057.N1	20-NOV-2009 21:59:20	Bright	48.000	82	48Bet UMa	2.3650	10600.	96	40392	No
79	GOM_TRA_1PNPDE20091120_220047_000000382084_00258_40392_4058.N1	20-NOV-2009 22:00:47	Bright	38.000	87	64Gam UMa	2.4330	11000.	76	40392	No
80	GOM_TRA_1PNPDE20091120_220332_000000482084_00258_40392_4059.N1	20-NOV-2009 22:03:32	Bright	48.000	174	52Psi UMa	3.0040	4400.0	96	40392	No
81	GOM_TRA_1PNPDE20091120_220534_000000442084_00258_40392_4060.N1	20-NOV-2009 22:05:34	Bright	43.500	152	12Alp2CVn	2.8900	11000.	87	40392	No
82	GOM_TRA_1PNPDE20091120_221358_000000562084_00258_40392_4061.N1	20-NOV-2009 22:13:58	Bright	56.000	62	94Bet Leo	2.1360	9700.0	112	40392	No
83	GOM_TRA_1PNPDE20091120_221728_000000552084_00258_40392_4062.N1	20-NOV-2009 22:17:28	Bright	54.500	121	29Gam Vir	2.7400	7200.0	109	40392	No
84	GOM_TRA_1PNPDE20091120_222240_000000432084_00258_40392_4055.N1	20-NOV-2009 22:22:40	Twilight	43.000	100	4Gam Crv	2.5800	13100.	86	40392	No
85	GOM_TRA_1PNPDE20091120_222413_000000462084_00258_40392_4056.N1	20-NOV-2009 22:24:13	Twilight	45.500	171	2Eps Crv	3.0010	4250.0	91	40392	No
86	GOM_TRA_1PNPDE20091120_223336_000000442084_00258_40392_4057.N1	20-NOV-2009 22:33:36	Dark	43.500	113	Mu Vel	2.6920	5000.0	87	40392	No
87	GOM_TRA_1PNPDE20091120_224028_000000502084_00259_40393_4058.N1	20-NOV-2009 22:40:28	Dark	49.500	41	Eps Car	1.8600	4100.0	99	40393	No
88	GOM_TRA_1PNPDE20091120_224302_000000482084_00259_40393_4059.N1	20-NOV-2009 22:43:02	Dark	48.000	70	Zet Pup	2.2460	39000.	96	40393	No
89	GOM_TRA_1PNPDE20091120_224558_000000472084_00259_40393_4060.N1	20-NOV-2009 22:45:58	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	40393	No
90	GOM_TRA_1PNPDE20091120_225237_000000512084_00259_40393_4061.N1	20-NOV-2009 22:52:37	Dark	51.000	108	Alp Col	2.6520	15200.	102	40393	No
91	GOM_TRA_1PNPDE20091120_230118_000000512084_00259_40393_4062.N1	20-NOV-2009 23:01:18	Straylight	50.500	165	34Gam Eri	2.9500	3200.0	101	40393	No
92	GOM_TRA_1PNPDE20091120_230646_000000472084_00259_40393_4063.N1	20-NOV-2009 23:06:46	Twilight	47.000	94	92Alp Cet	2.5260	3100.0	94	40393	No
93	GOM_TRA_1PNPDE20091120_231318_000000412084_00259_40393_4064.N1	20-NOV-2009 23:13:18	Bright	40.500	146	25Eta Tau	2.8730	15200.	81	40393	No
94	GOM_TRA_1PNPDE20091120_231551_000000412084_00259_40393_4065.N1	20-NOV-2009 23:15:51	Bright	41.000	150	44Zet Per	2.8900	28000.	82	40393	No
95	GOM_TRA_1PNPDE20091120_231737_000000372084_00259_40393_4066.N1	20-NOV-2009 23:17:37	Bright	36.500	79	26Bet Per	2.3100	13100.	73	40393	No
96	GOM_TRA_1PNPDE20091120_232011_000000392084_00259_40393_4067.N1	20-NOV-2009 23:20:11	Bright	38.500	175	39Del Per	3.0100	19400.	77	40393	No
97	GOM_TRA_1PNPDE20091120_233817_000000392084_00259_40393_4068.N1	20-NOV-2009 23:38:17	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	40393	No
98	GOM_TRA_1PNPDE20091120_233956_000000432084_00259_40393_4069.N1	20-NOV-2009 23:39:56	Bright	42.500	82	48Bet UMa	2.3650	10600.	85	40393	No
99	GOM_TRA_1PNPDE20091120_234122_000000582084_00259_40393_4070.N1	20-NOV-2009 23:41:22	Bright	58.000	87	64Gam UMa	2.4330	11000.	116	40393	No
100	GOM_TRA_1PNPDE20091120_234408_000000462084_00259_40393_4071.N1	20-NOV-2009 23:44:08	Bright	46.000	174	52Psi UMa	3.0040	4400.0	92	40393	No
101	GOM_TRA_1PNPDE20091120_234610_000000372084_00259_40393_4072.N1	20-NOV-2009 23:46:10	Bright	37.000	152	12Alp2CVn	2.8900	11000.	74	40393	No
102	GOM_TRA_1PNPDE20091120_235435_000000482084_00259_40393_4073.N1	20-NOV-2009 23:54:35	Bright	48.000	62	94Bet Leo	2.1360	9700.0	96	40393	No
103	GOM_TRA_1PNPDE20091120_235804_000000382084_00259_40393_4074.N1	20-NOV-2009 23:58:04	Bright	38.000	121	29Gam Vir	2.7400	7200.0	76	40393	No

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



4. Overview of dark signal processing per product

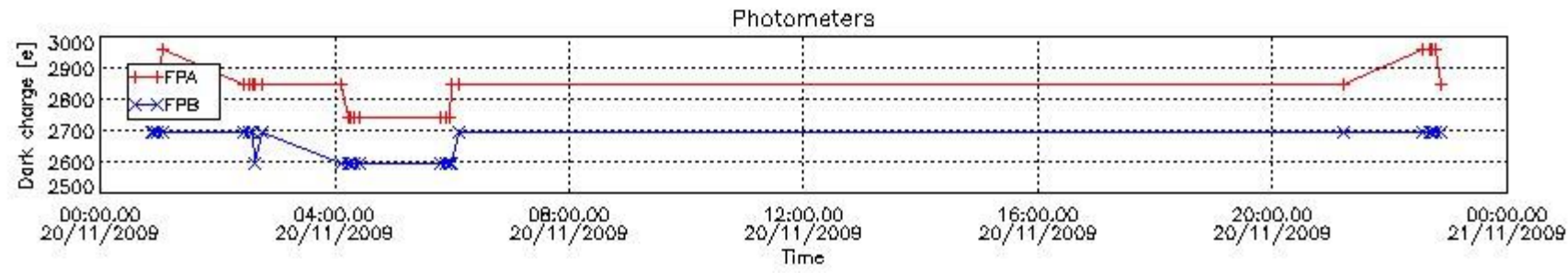
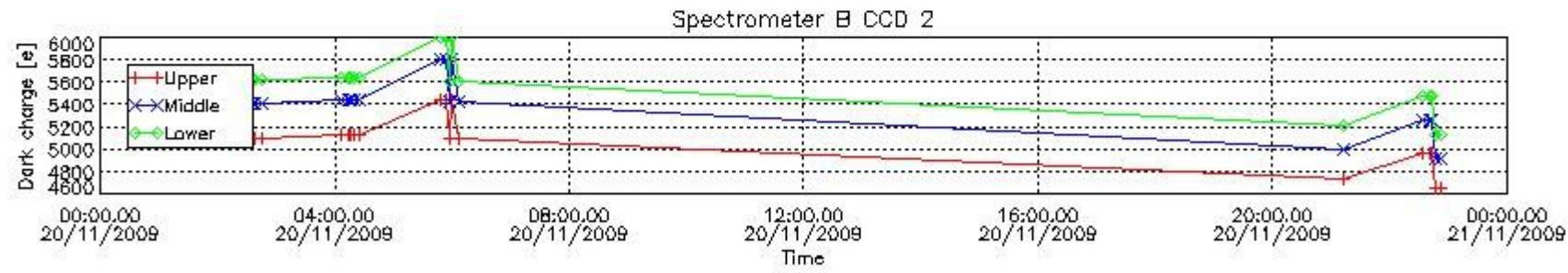
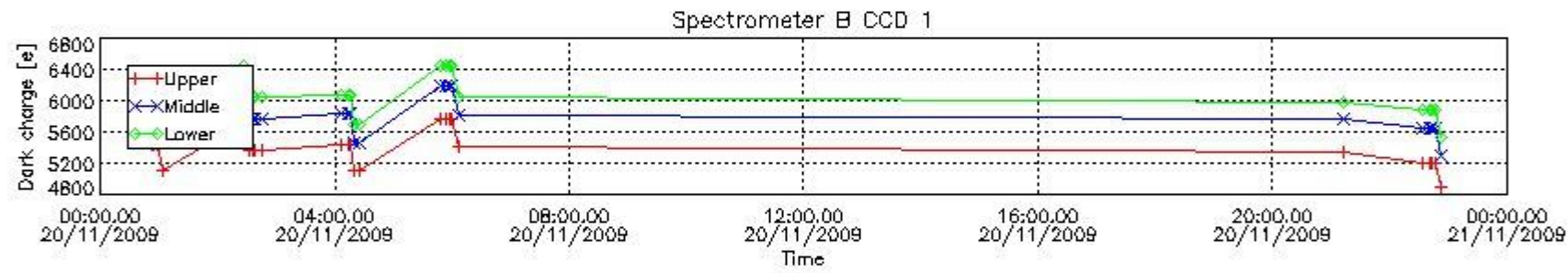
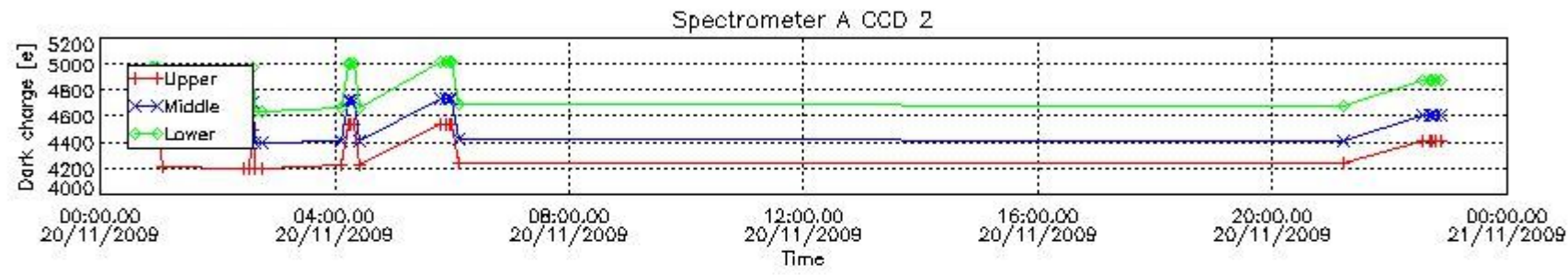
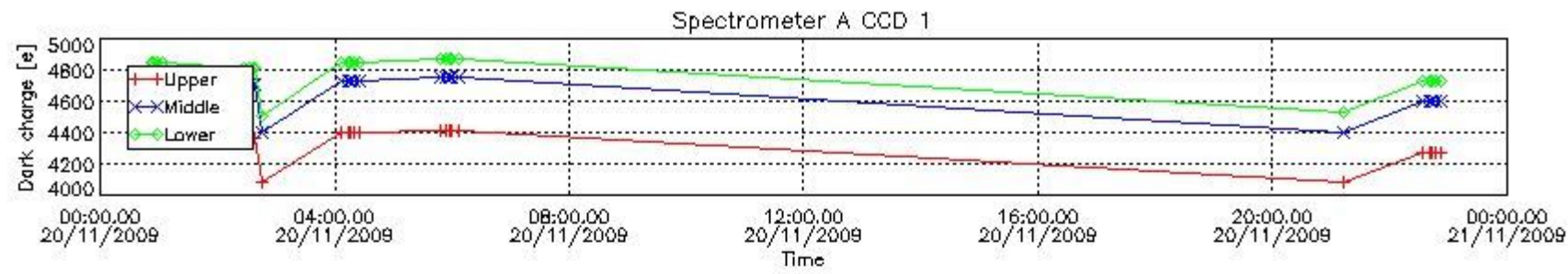
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20091120_211201_000000522084_00258_40392_4049.N1	DC map used
GOM_TRA_1PNPDE20091120_212043_000000482084_00258_40392_4050.N1	DC map used
GOM_TRA_1PNPDE20091120_212610_000000462084_00258_40392_4051.N1	DC map used
GOM_TRA_1PNPDE20091120_213243_000000402084_00258_40392_4052.N1	DC map used
GOM_TRA_1PNPDE20091120_213516_000000432084_00258_40392_4053.N1	DC map used
GOM_TRA_1PNPDE20091120_213702_000000402084_00258_40392_4054.N1	DC map used
GOM_TRA_1PNPDE20091120_213936_000000382084_00258_40392_4055.N1	DC map used
GOM_TRA_1PNPDE20091120_215742_000000452084_00258_40392_4056.N1	DC map used
GOM_TRA_1PNPDE20091120_215920_000000482084_00258_40392_4057.N1	DC map used
GOM_TRA_1PNPDE20091120_220047_000000382084_00258_40392_4058.N1	DC map used
GOM_TRA_1PNPDE20091120_220332_000000482084_00258_40392_4059.N1	DC map used
GOM_TRA_1PNPDE20091120_220534_000000442084_00258_40392_4060.N1	DC map used
GOM_TRA_1PNPDE20091120_221358_000000562084_00258_40392_4061.N1	DC map used
GOM_TRA_1PNPDE20091120_221728_000000552084_00258_40392_4062.N1	DC map used

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



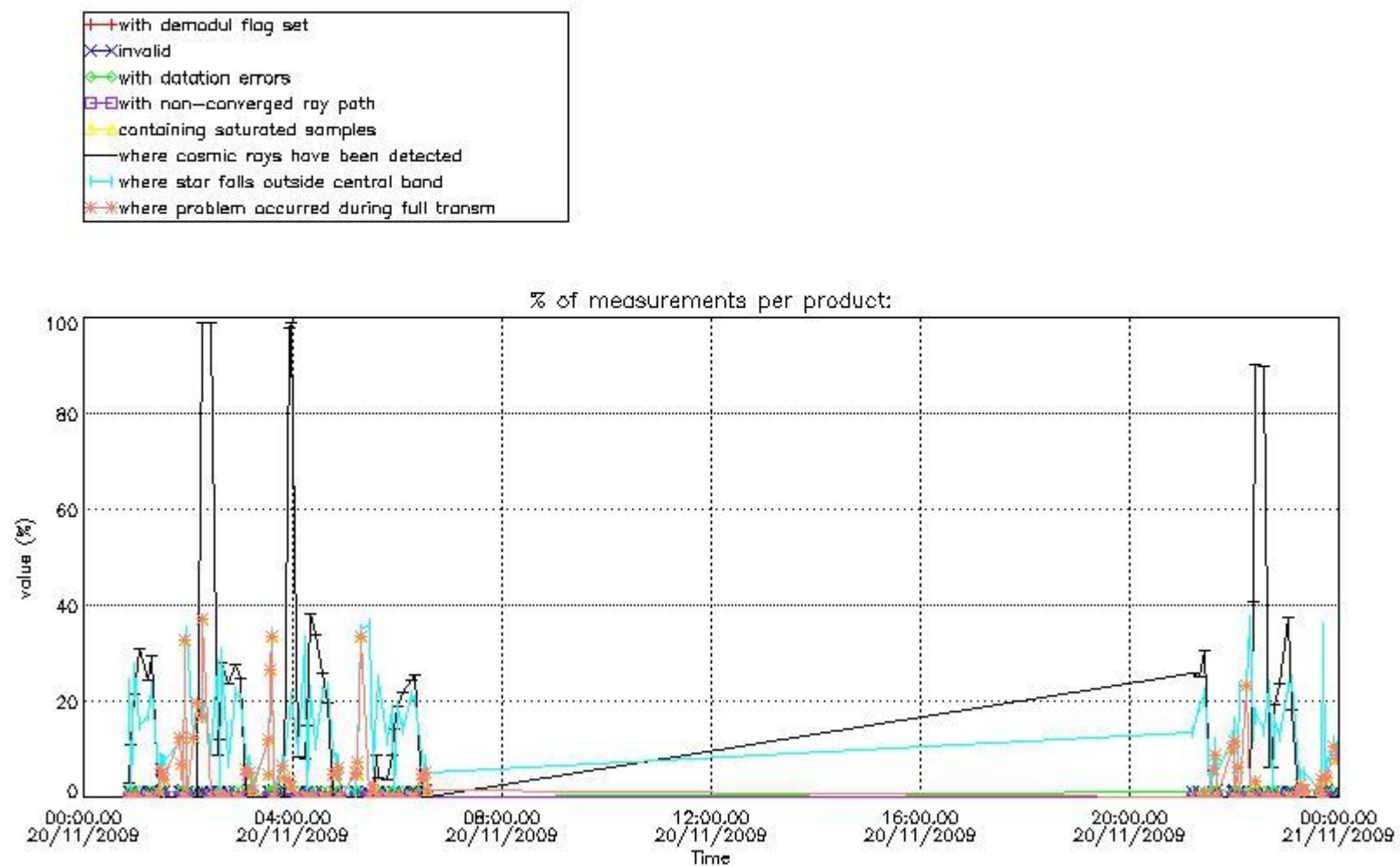
5. Demodulation flag and quality information monitoring

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.

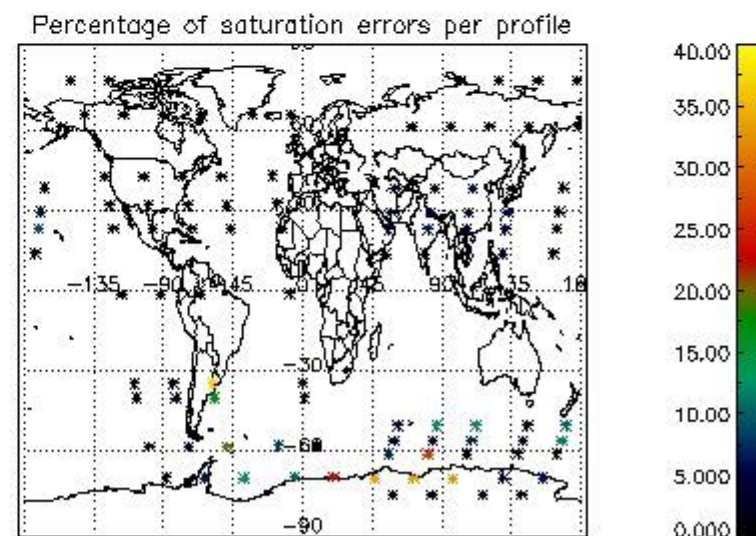
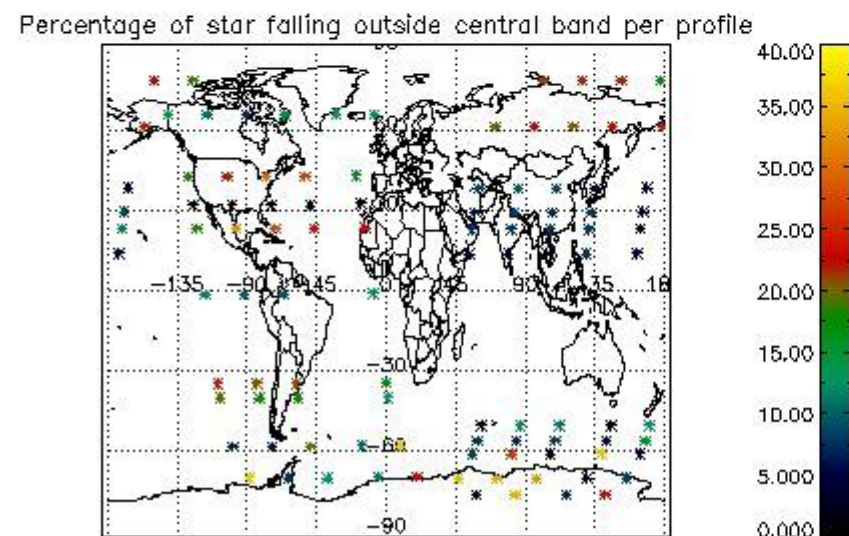
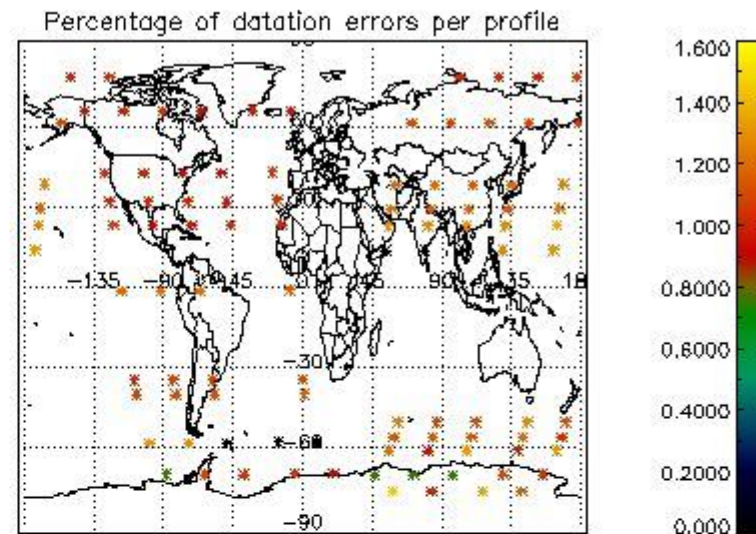
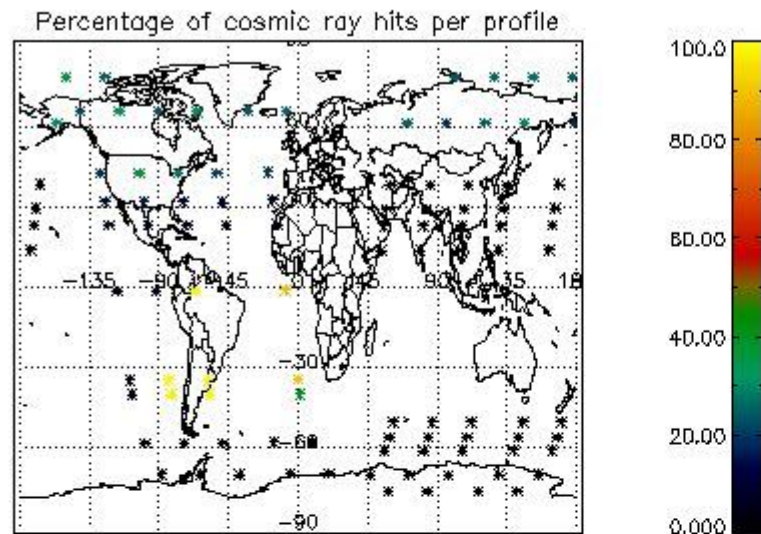
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	40.7767 %
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)



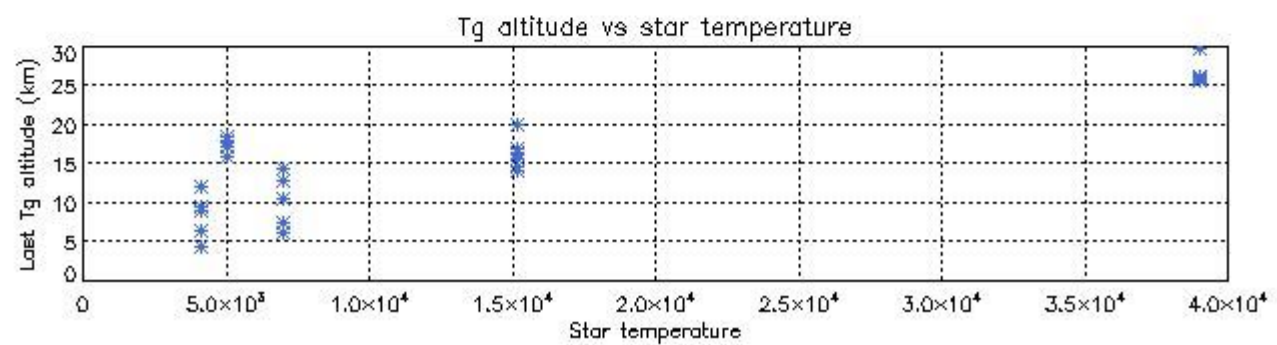
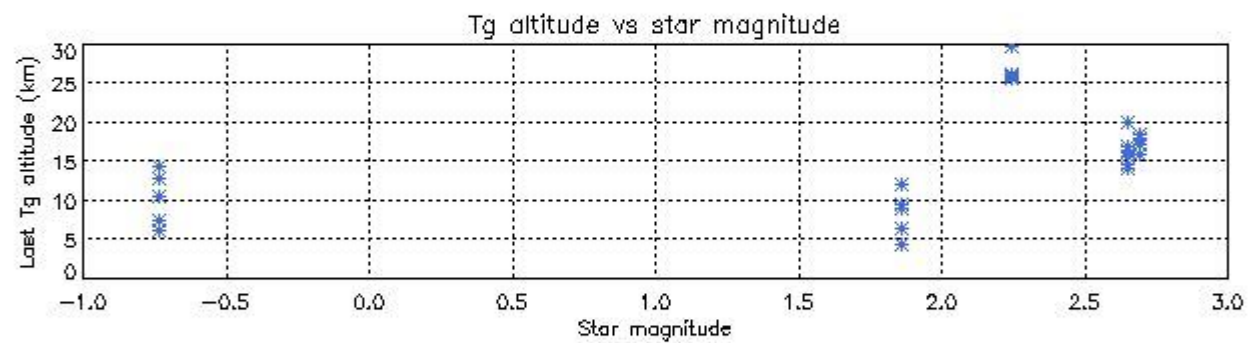
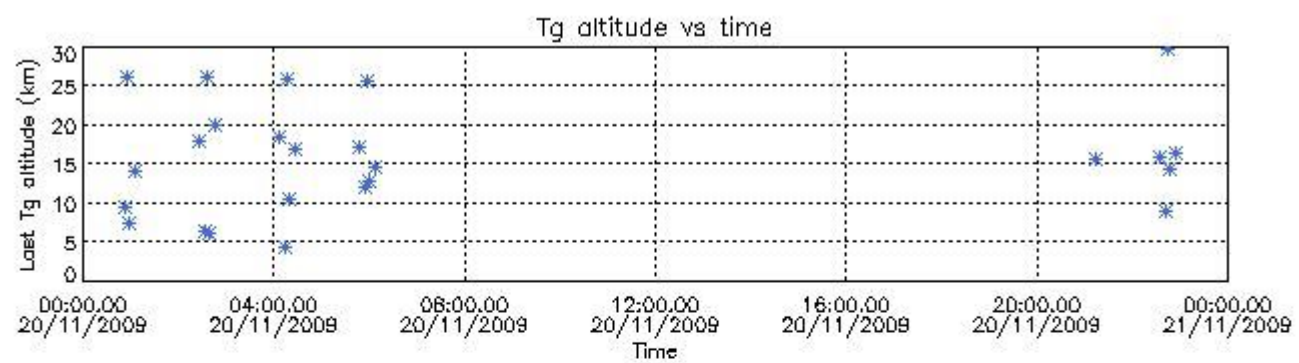
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.719	18.170	11.211
St. deviation:	6.9658	6.3137	1.3637
Maximum:	29.796	26.728	12.156
Minimum:	4.3373	4.0761	9.1877
Number of data:	25.000	58.000	4.0000

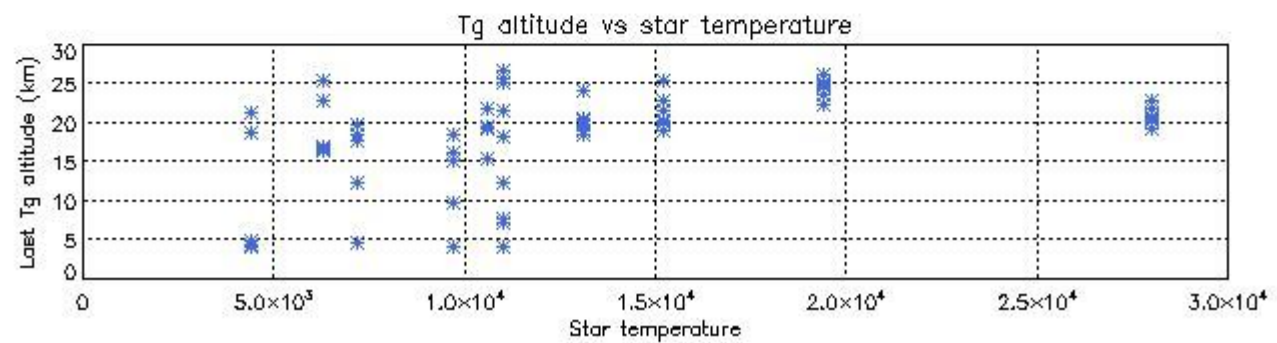
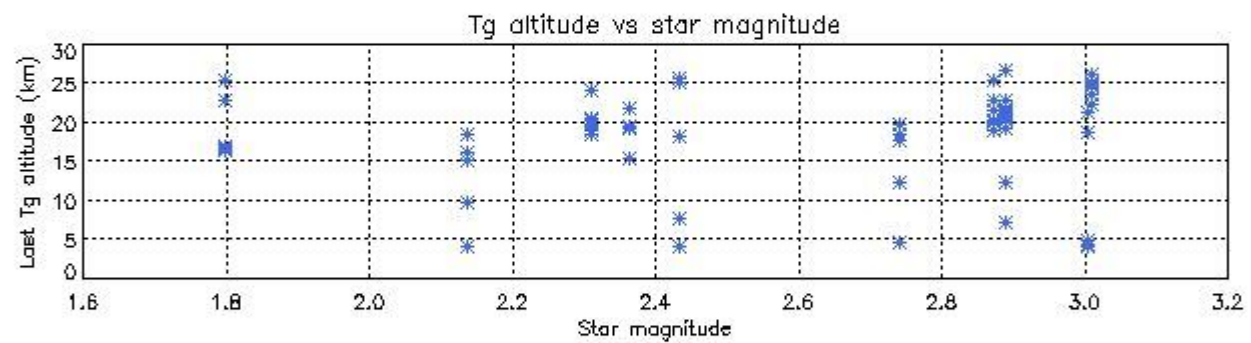
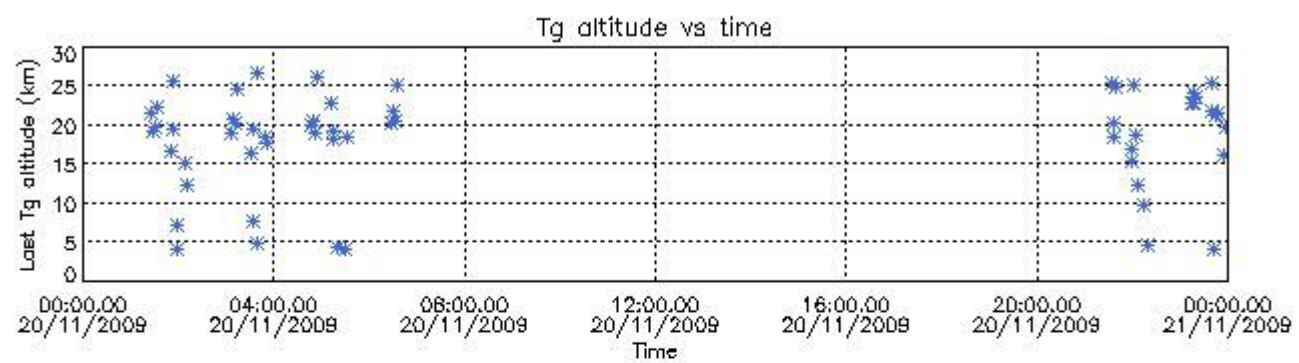
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



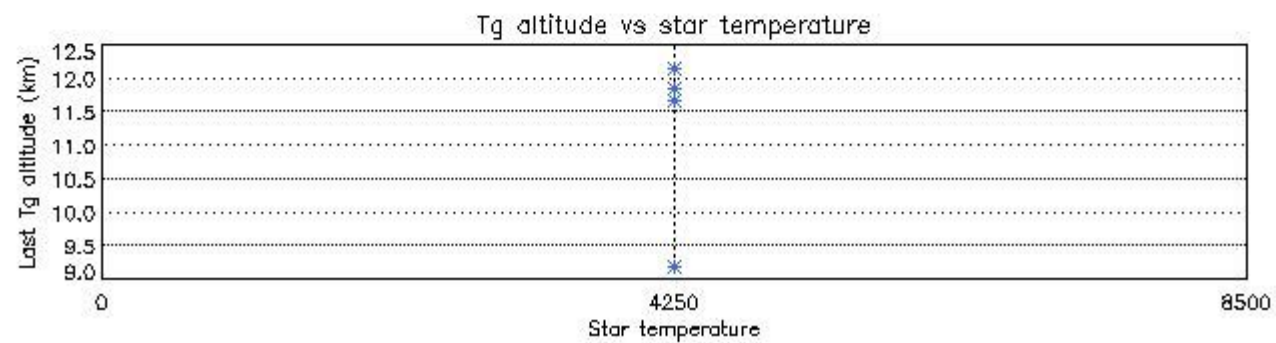
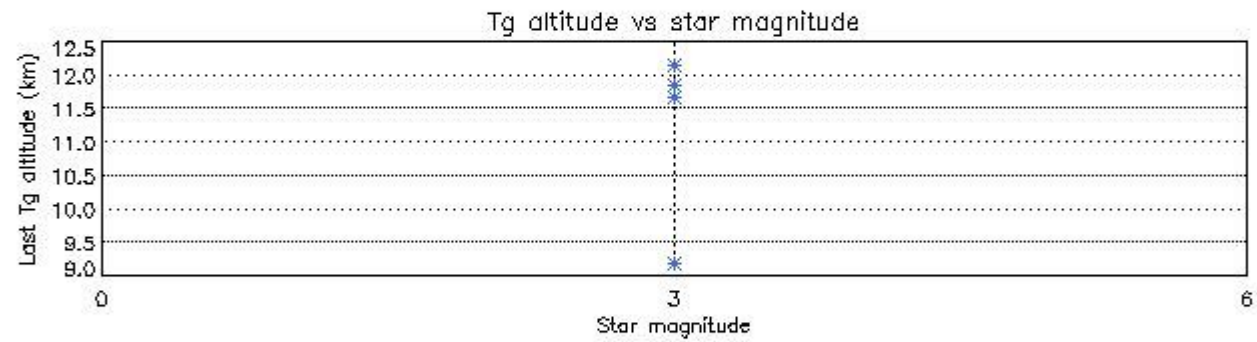
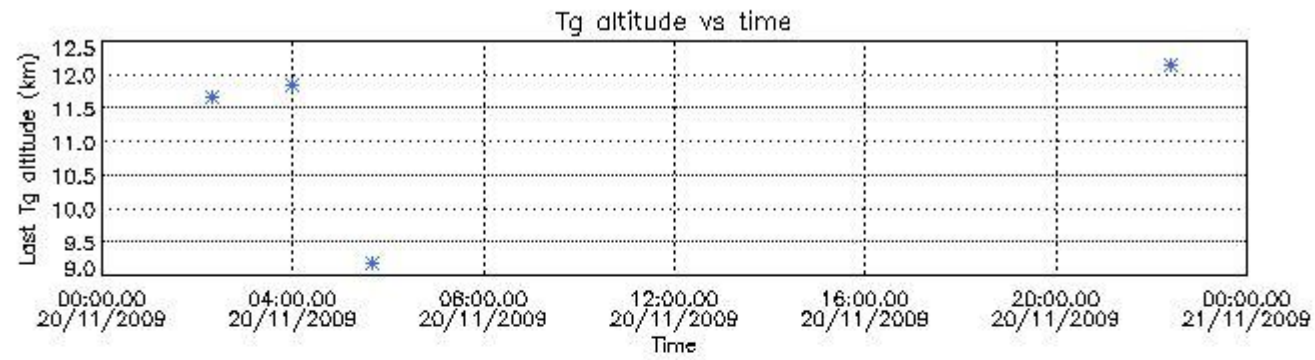
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

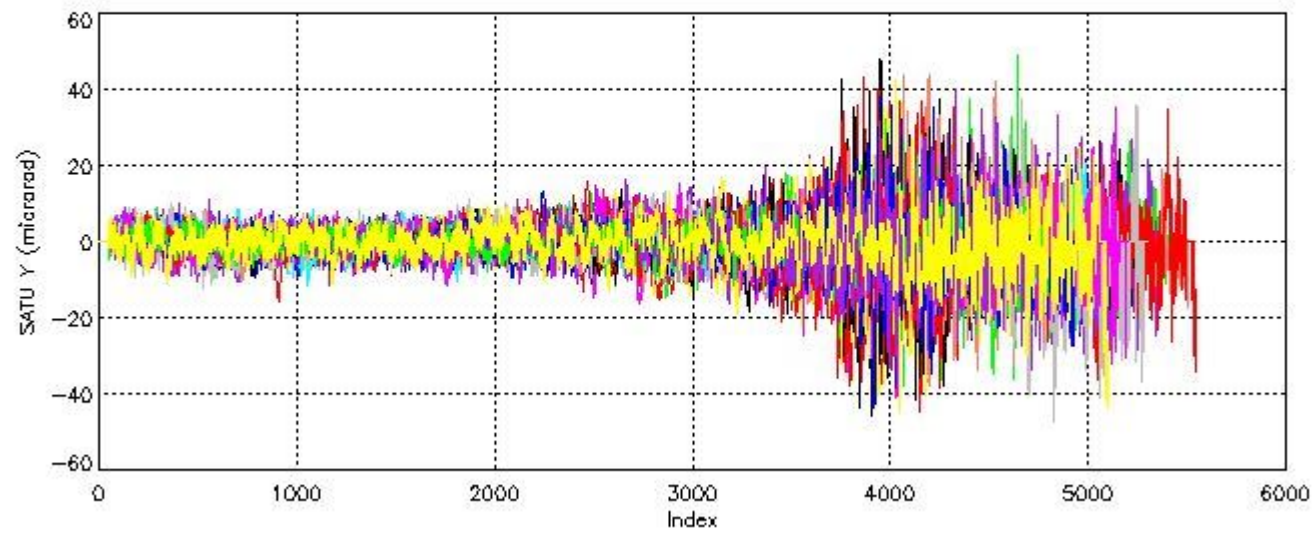
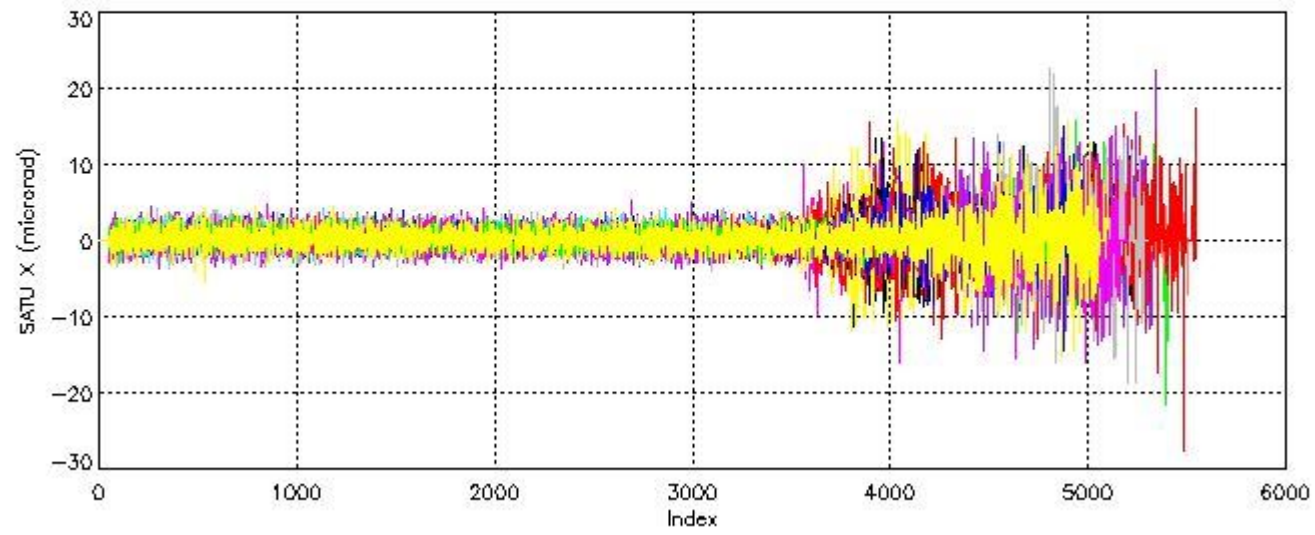


7. Star Acquisition and Tracking Unit (SATU)

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:	0.29531	-0.20359	0.18043	-0.30848
St. deviation:	0.64335	2.7608	1.1381	3.0299
Maximum:	4.7000	11.000	6.8000	12.800
Minimum:	-5.4000	-15.600	-6.6000	-20.700

Number of data:	26900.	26900.	56150.	56150.
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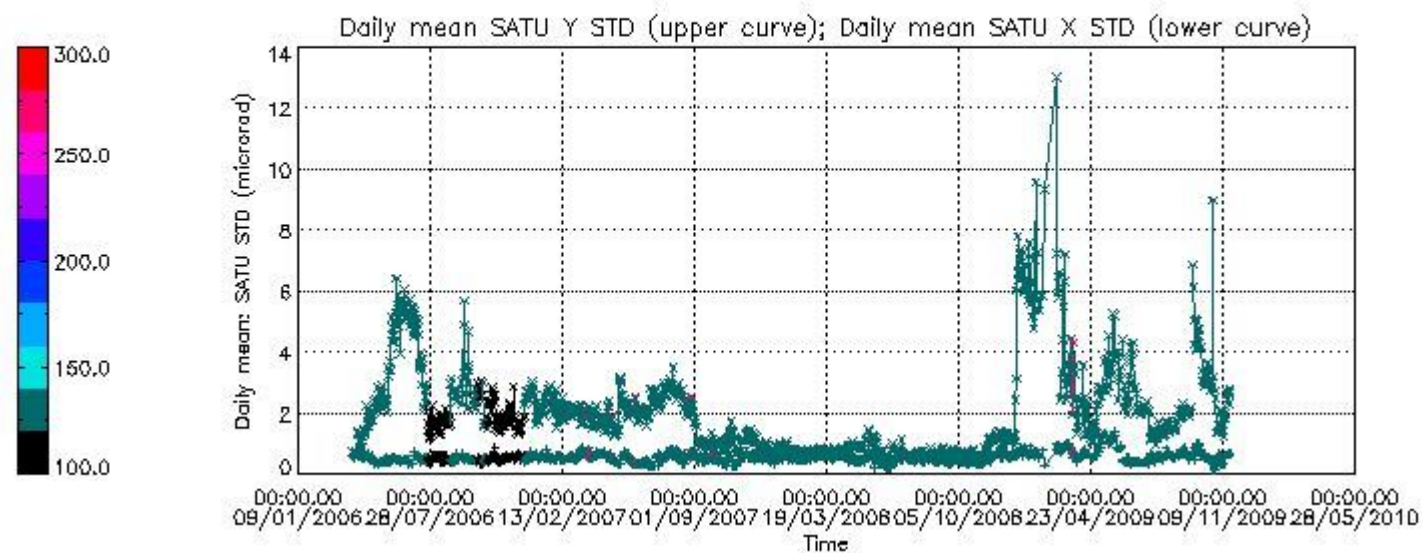
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

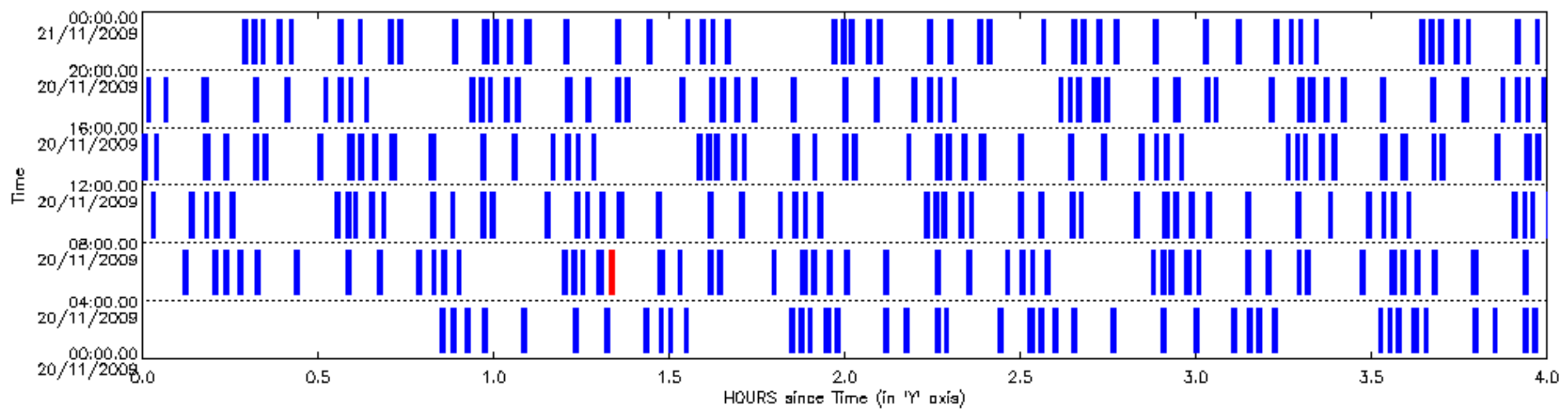
Lower curve: STD of SATU X axis

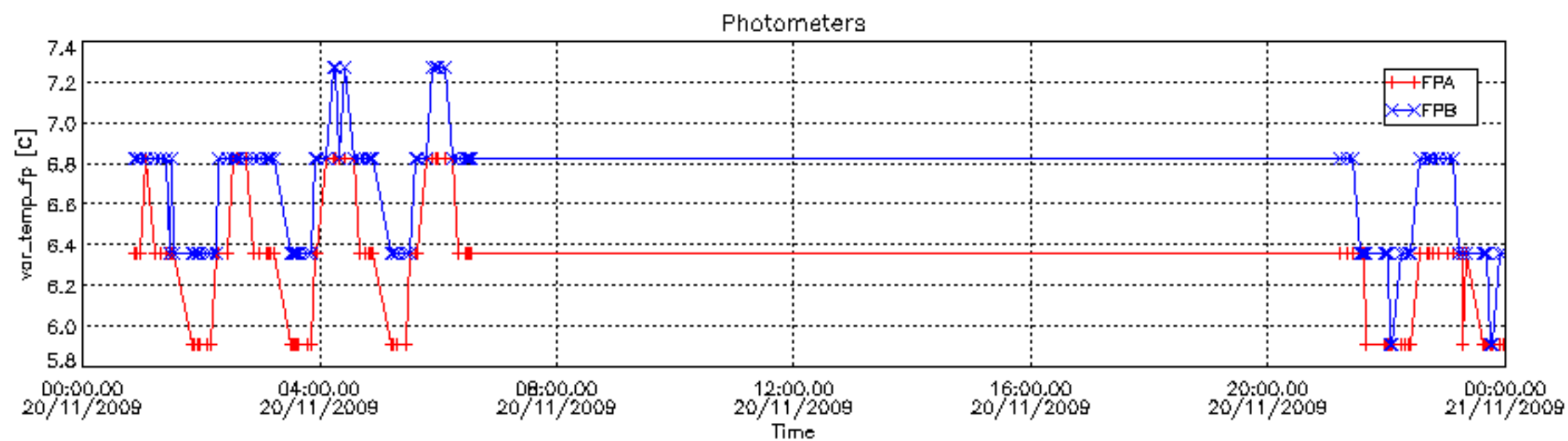
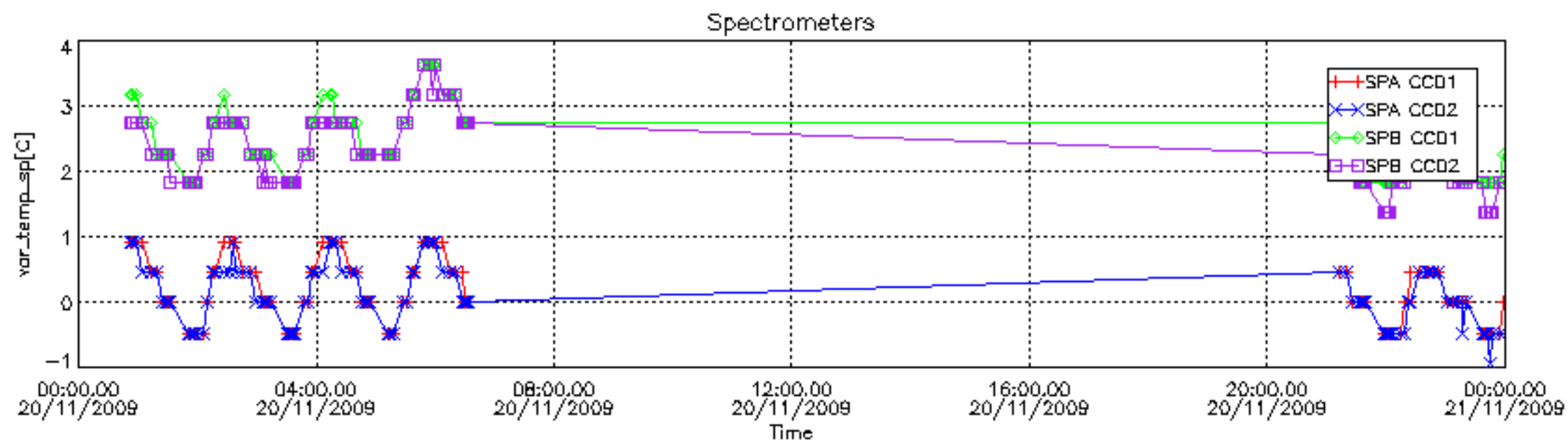


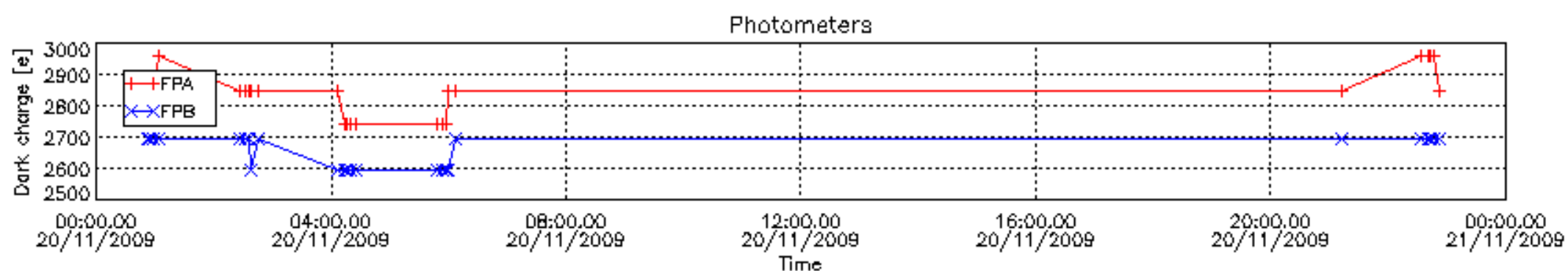
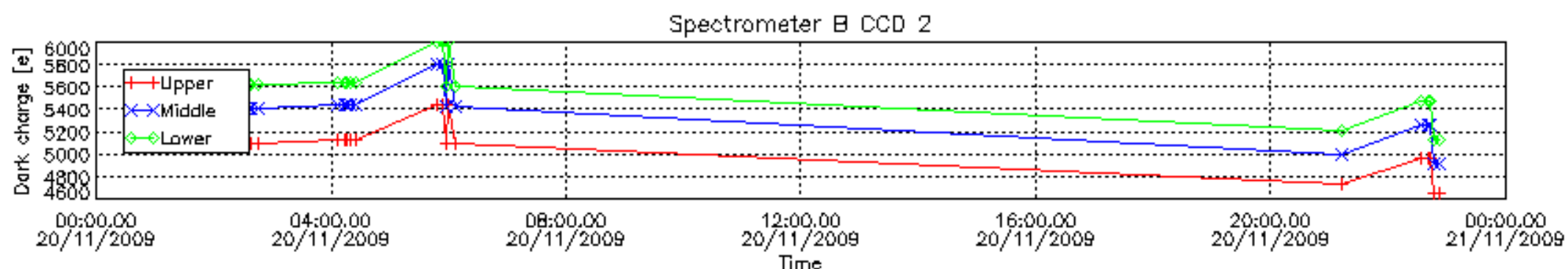
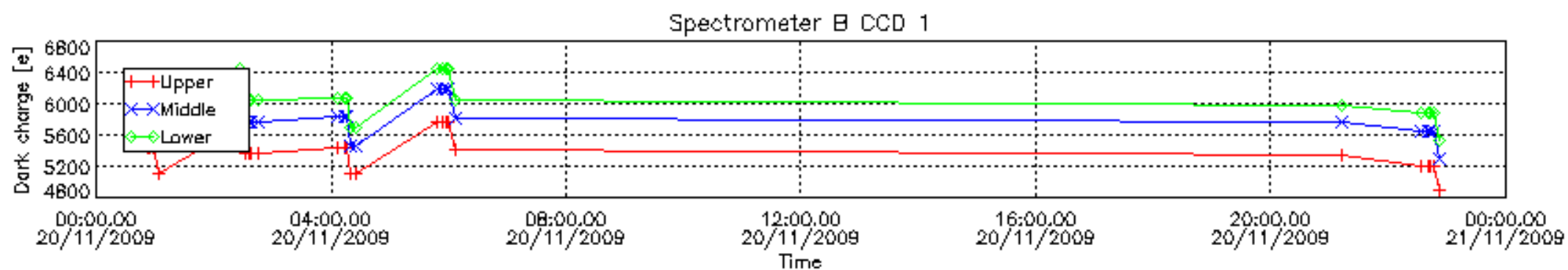
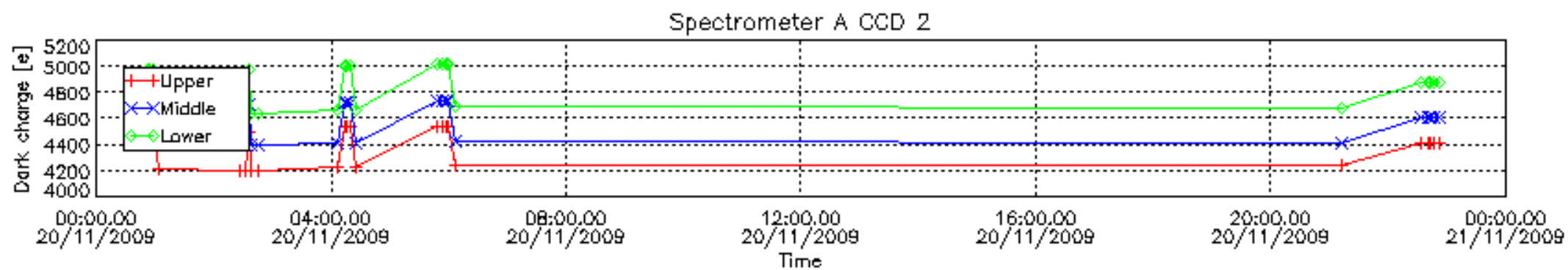
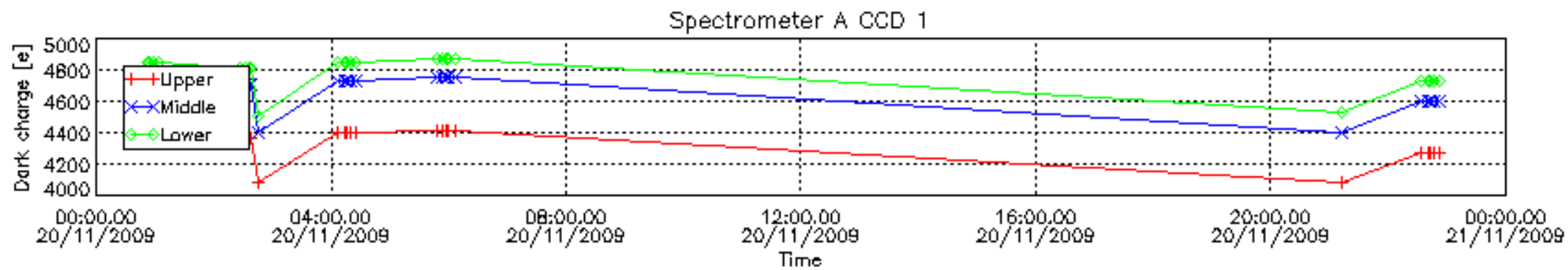
8. Auxiliary Data Files used for the production reported in section 2.4

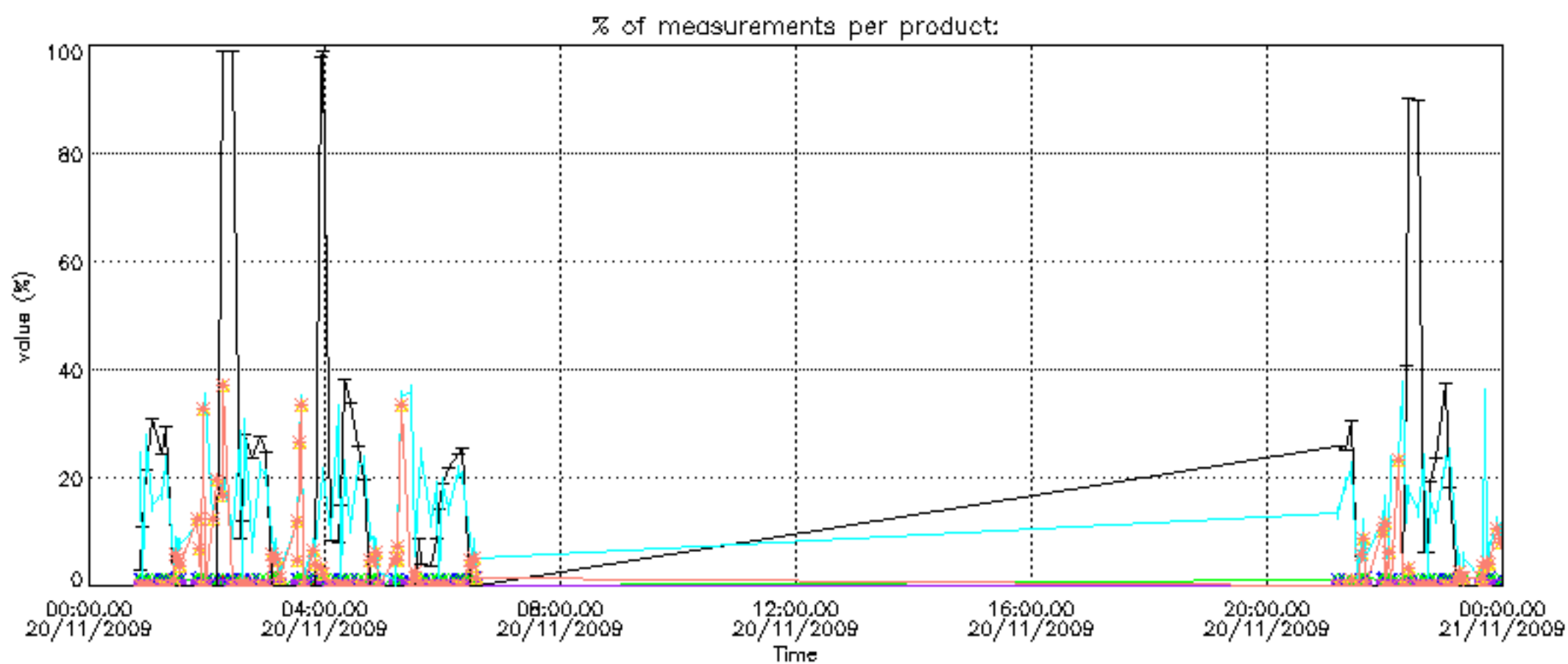
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	20-NOV-2009 00:52:32
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091116_112409_20091114_000000_20100101_000000	1	20-NOV-2009 00:52:32
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	20-NOV-2009 00:52:32
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	20-NOV-2009 00:52:32
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	20-NOV-2009 00:52:32
ECMWF_FILE	AUX_ECF_AXNECM20091119_064112_20091119_210000_20091120_090000	1	20-NOV-2009 00:52:32
ECMWF_FILE	AUX_ECF_AXNECM20091119_184112_20091120_030000_20091120_150000	31	20-NOV-2009 03:31:09
ECMWF_FILE	AUX_ECA_AXNECM20091120_062112_20091119_210000_20091120_090000	51	20-NOV-2009 05:11:45
ECMWF_FILE	AUX_ECF_AXNECM20091120_064113_20091120_210000_20091121_090000	70	20-NOV-2009 21:12:01
OPTIONAL_ECMWF_FILE	MISSING	1	20-NOV-2009 00:52:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091120_003400_000054192084_00245_40379_9202.N1	1	20-NOV-2009 00:52:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091120_020938_000041442084_00246_40380_9203.N1	18	20-NOV-2009 02:15:23
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091120_032401_000057382084_00247_40381_9204.N1	31	20-NOV-2009 03:31:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091120_050458_000057382084_00248_40382_9205.N1	51	20-NOV-2009 05:11:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091120_210639_000038252084_00258_40392_9206.N1	70	20-NOV-2009 21:12:01
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091120_010111_20091119_194419_20091129_211031	84	20-NOV-2009 22:22:40

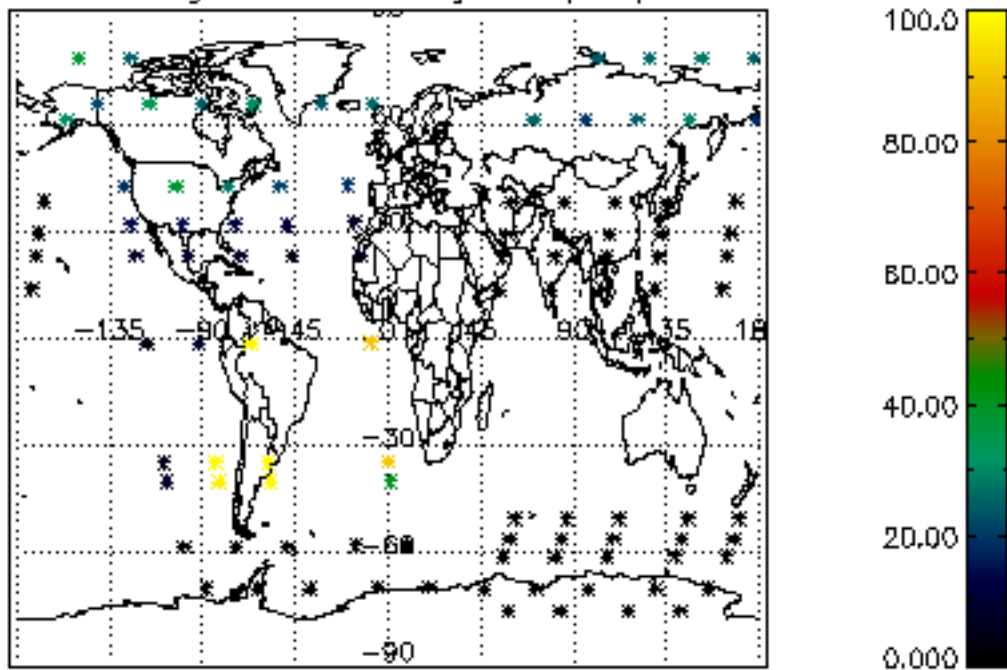




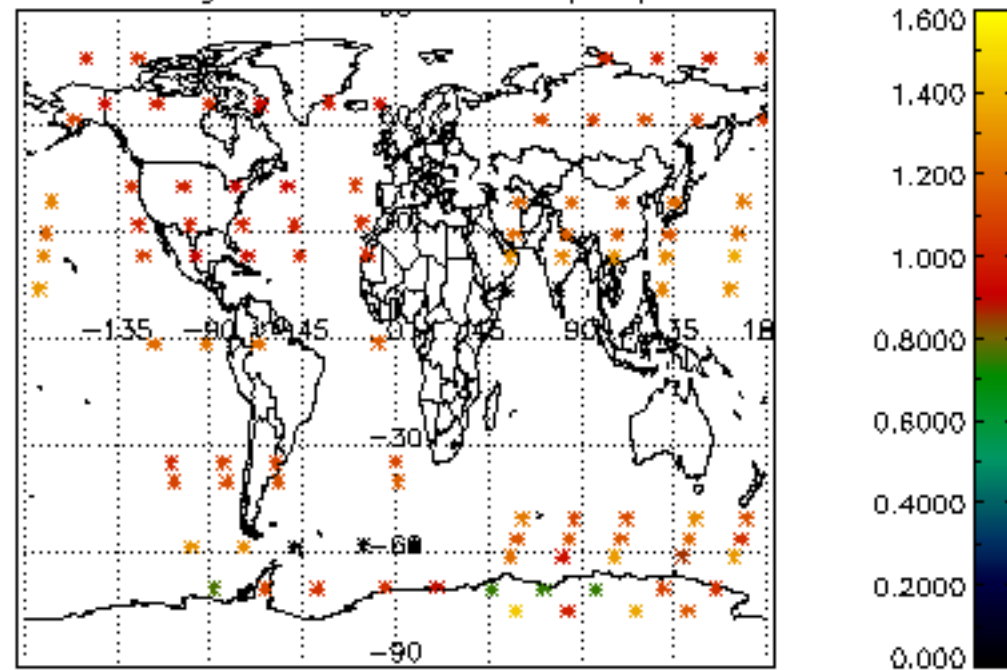




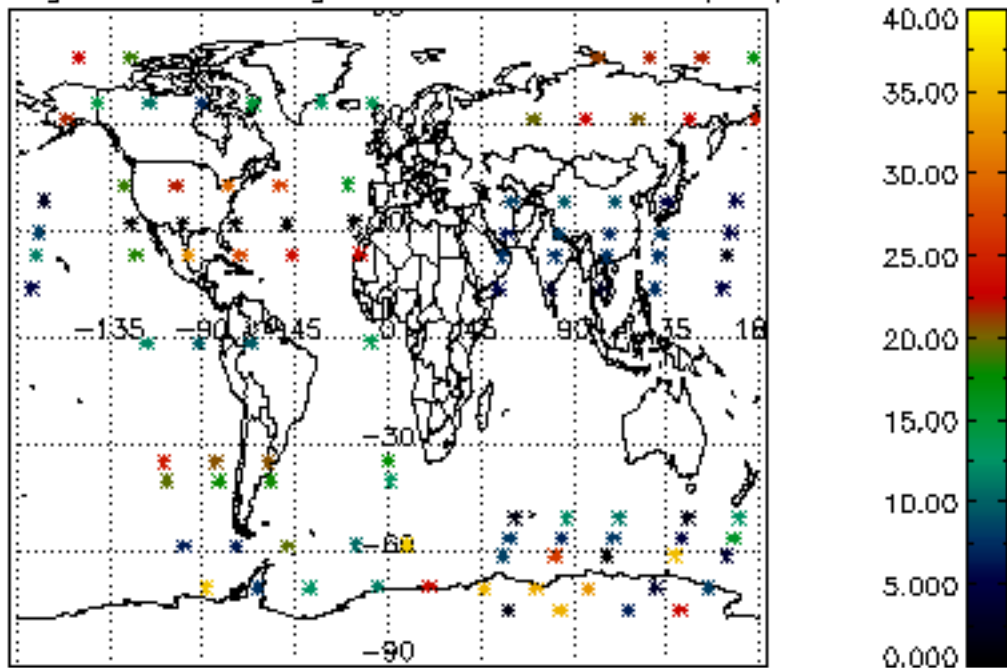
Percentage of cosmic ray hits per profile



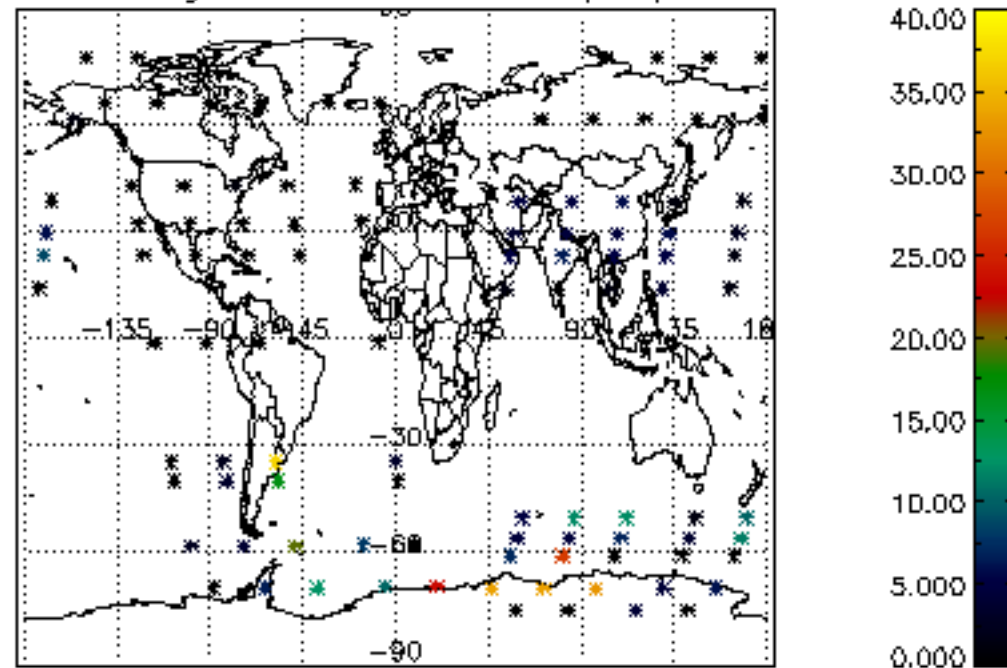
Percentage of datation errors per profile



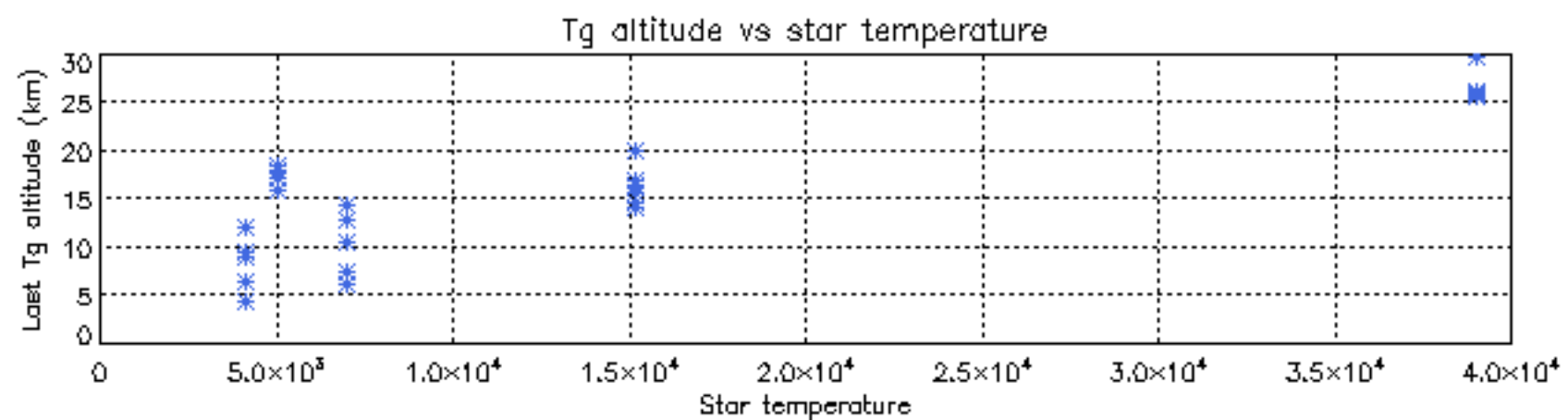
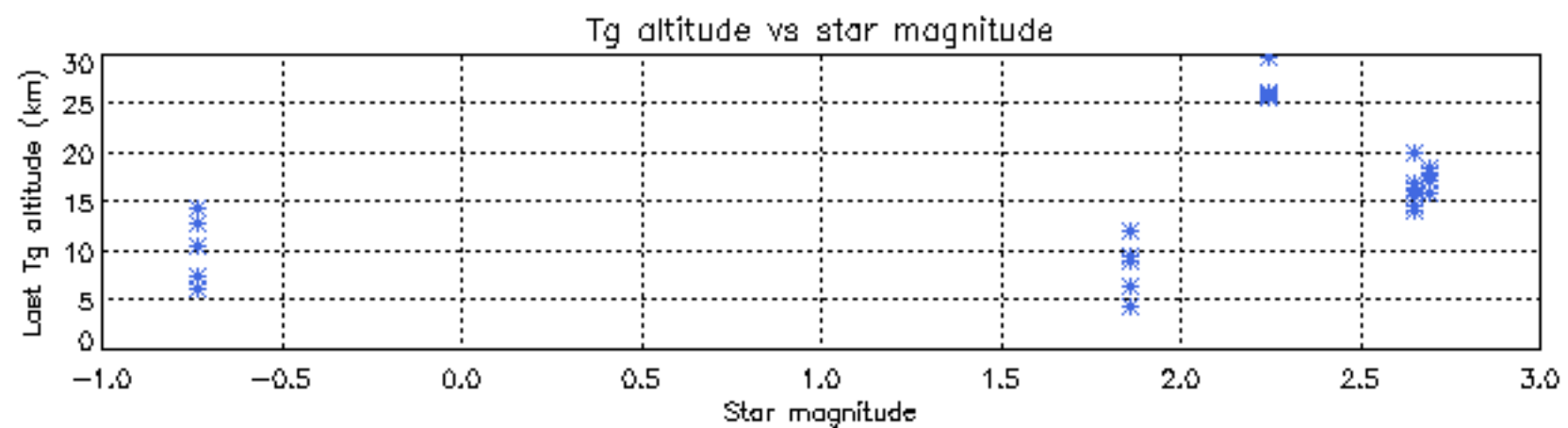
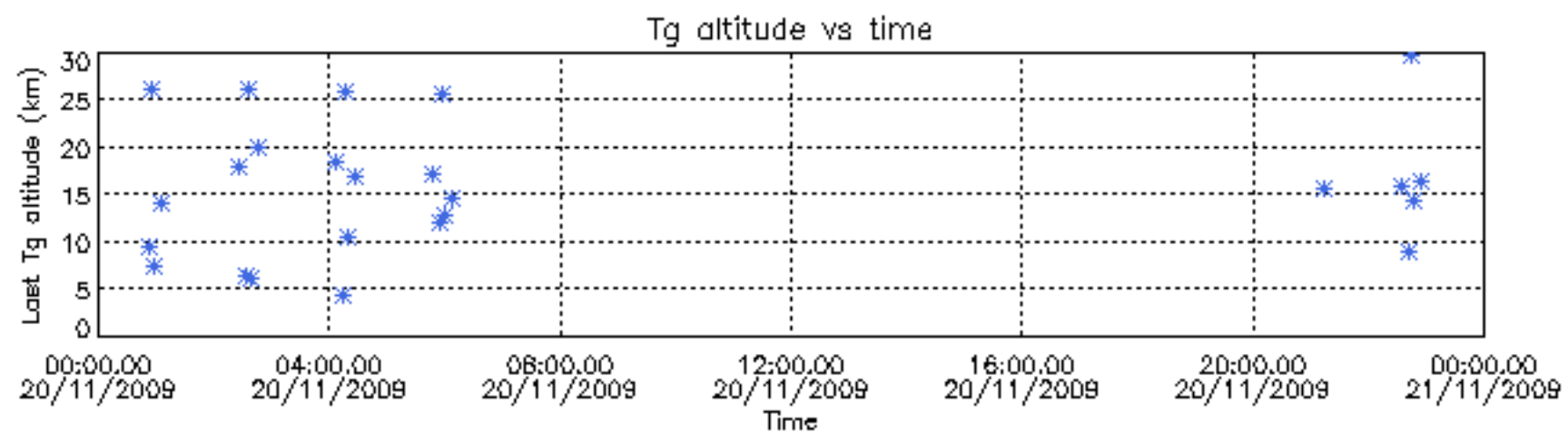
Percentage of star falling outside central band per profile



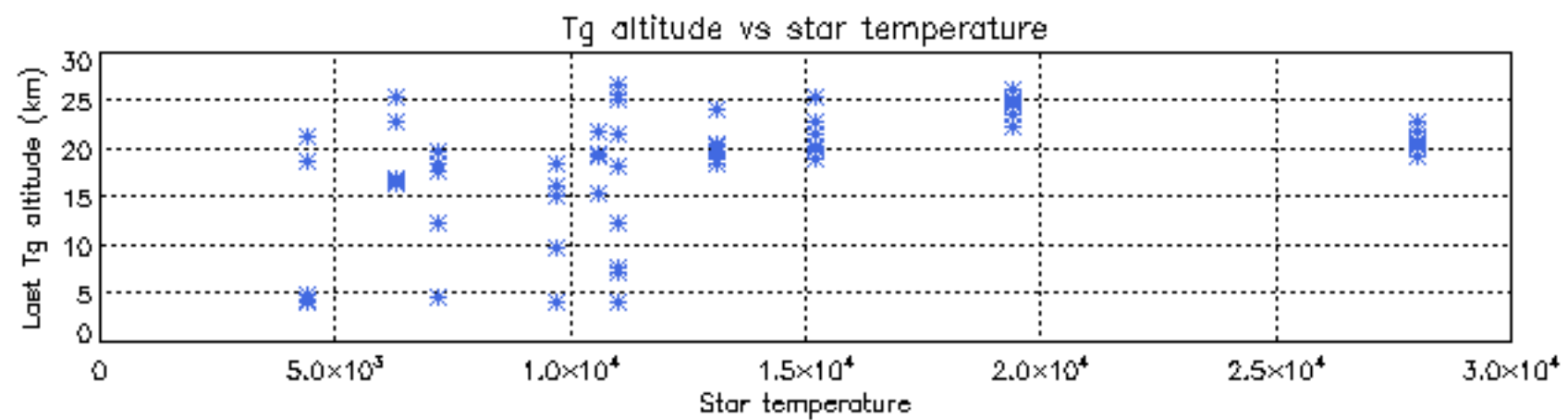
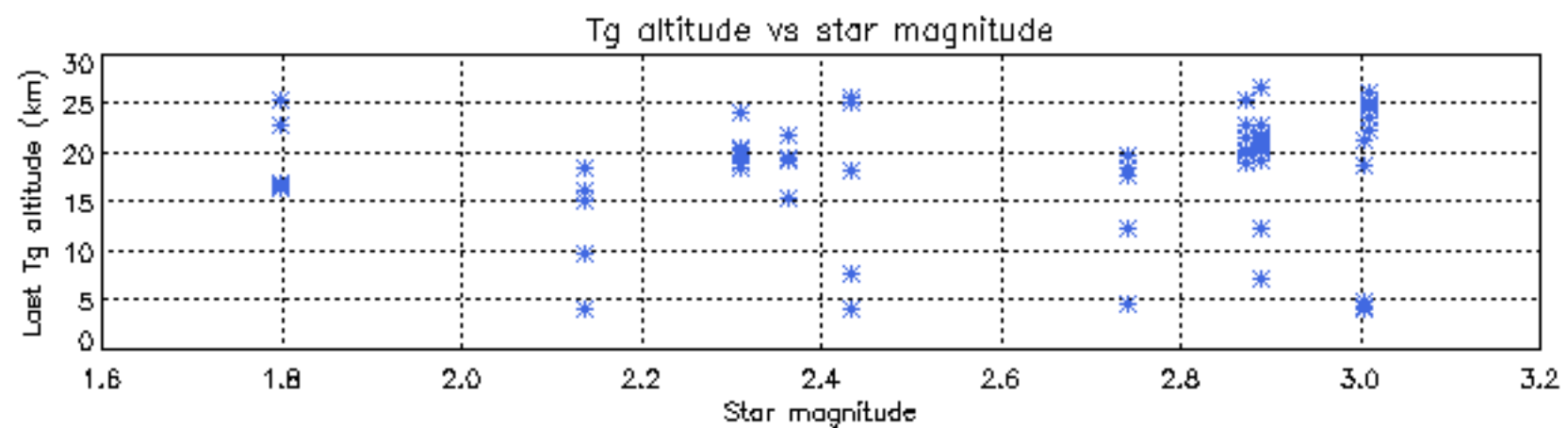
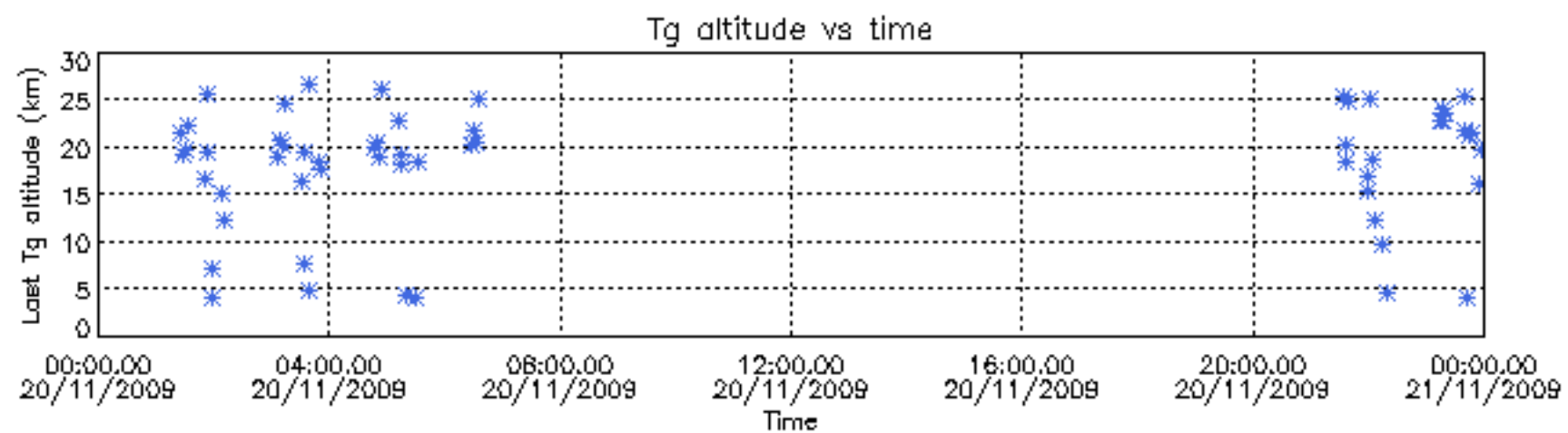
Percentage of saturation errors per profile



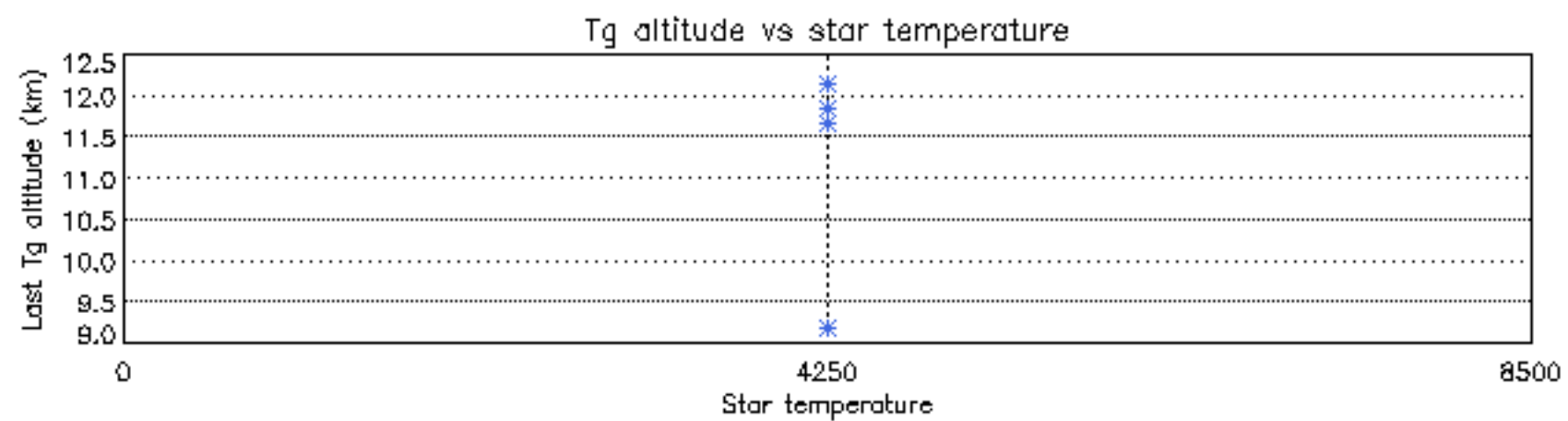
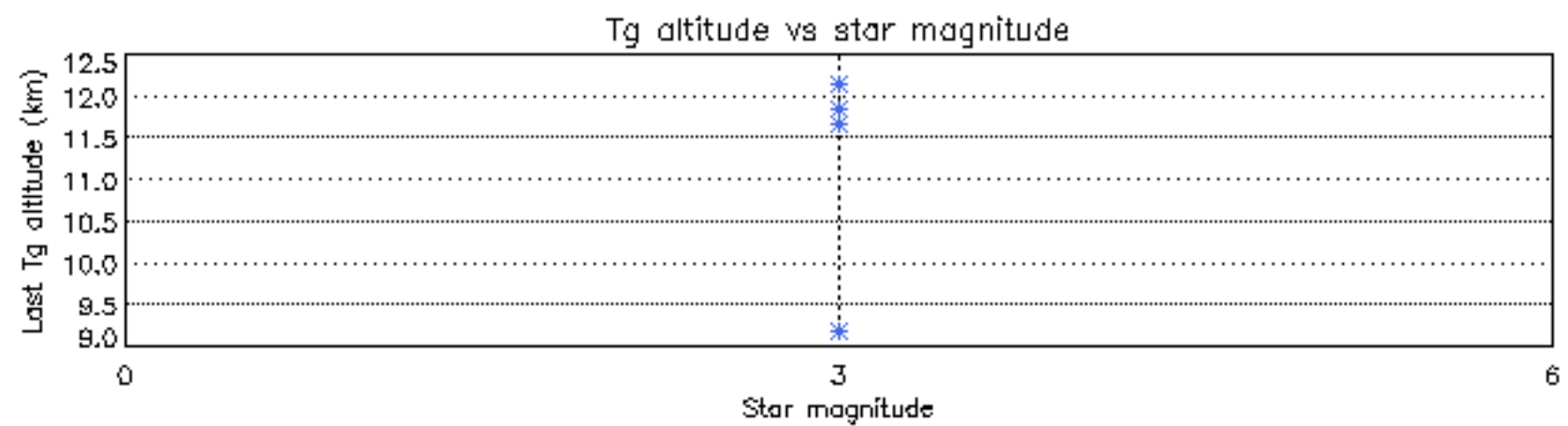
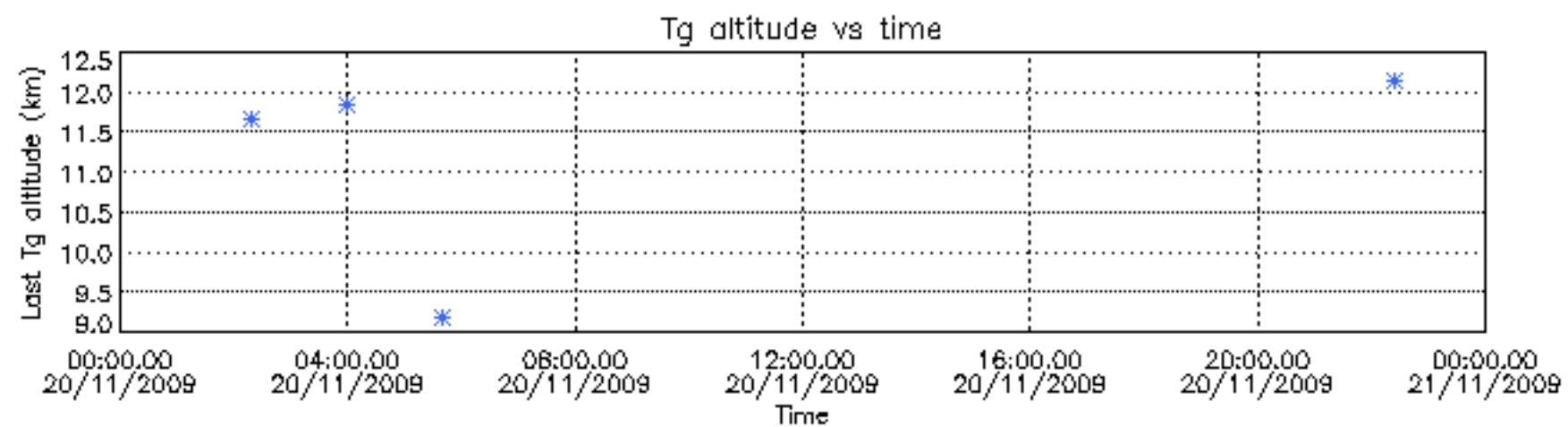
Tangent altitude at which the star is lost

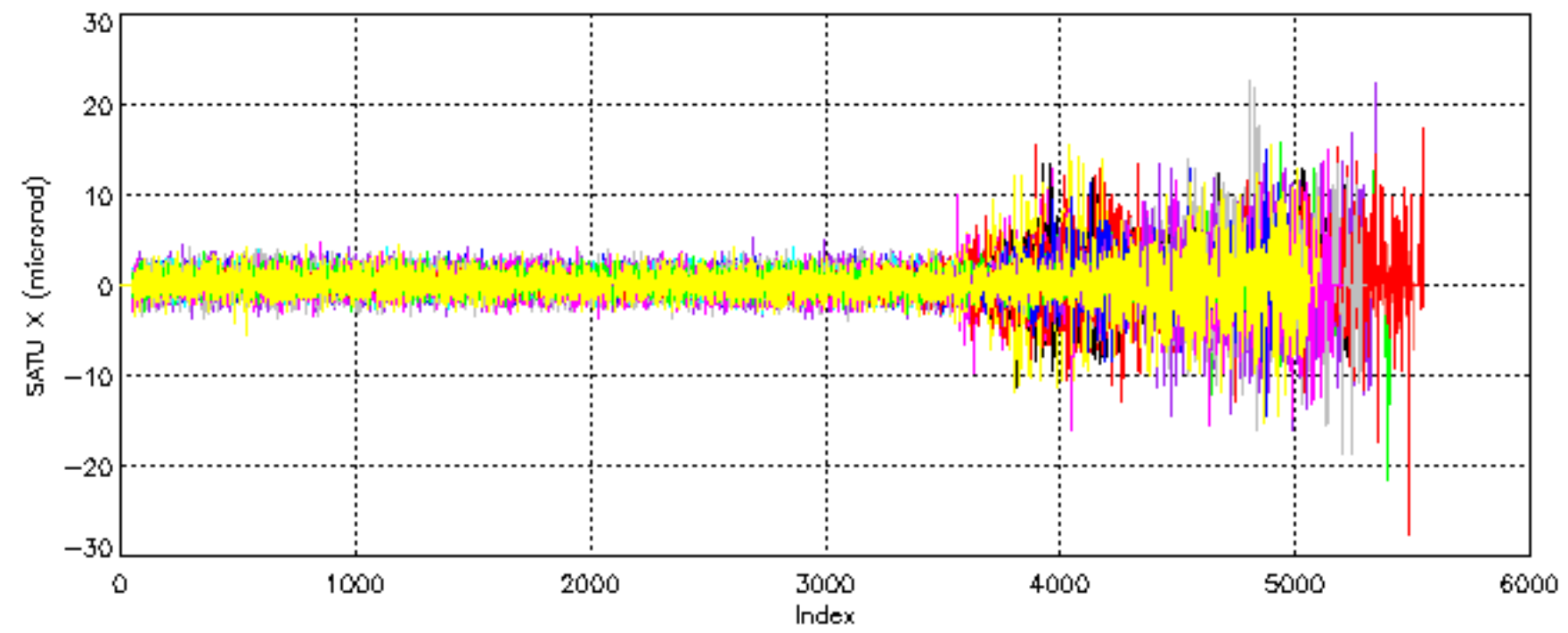


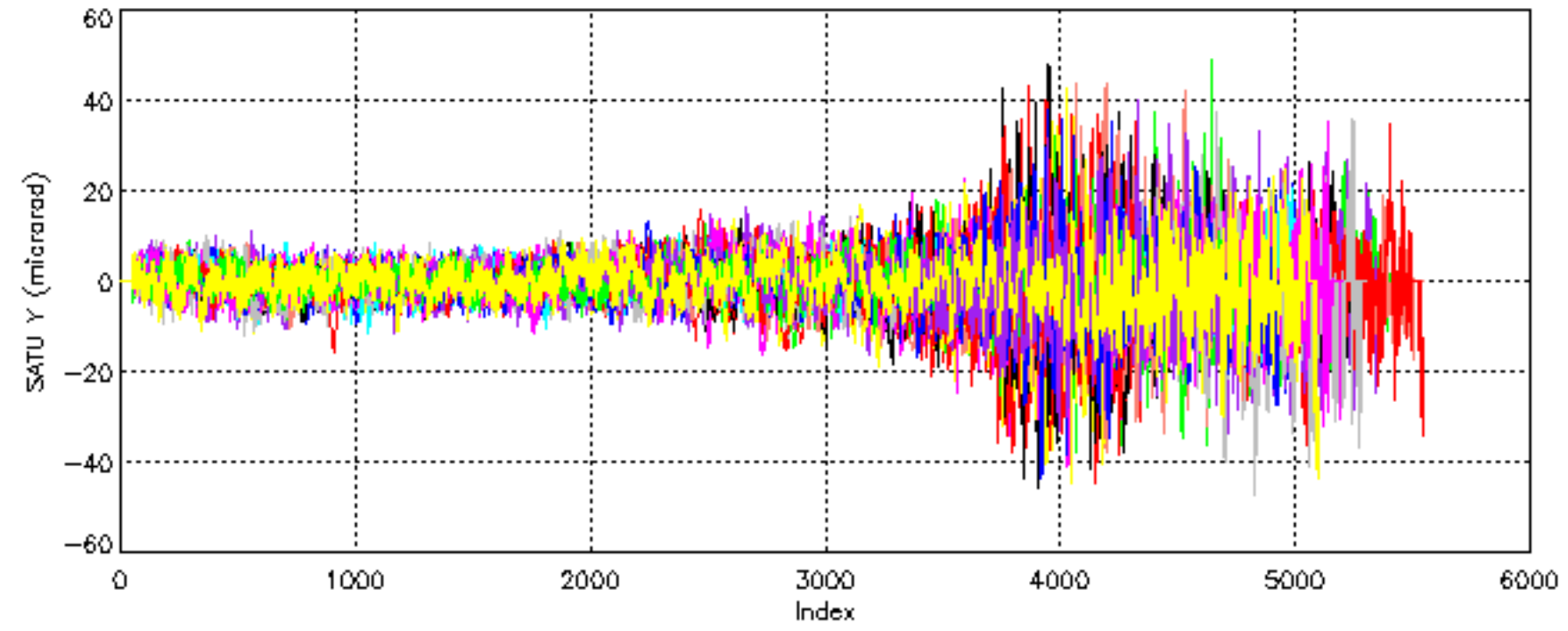
Tangent altitude at which the star is lost

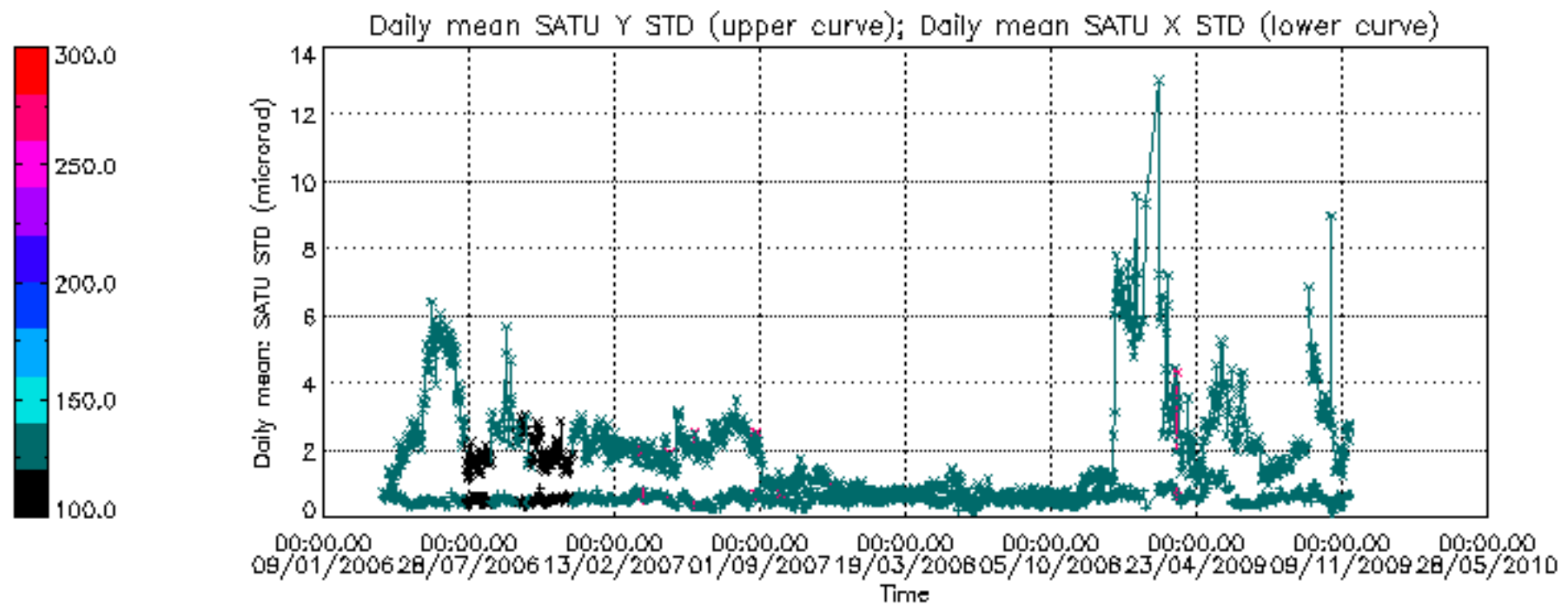


Tangent altitude at which the star is lost









/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
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 4; 349.0; 01-NOV-2009 02:29:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40109
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 8; 199.8; 01-NOV-2009 04:07:46; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;40110
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 11; 911.1; 01-NOV-2009 04:19:38; Dark ; 31.0; 108; Alp Col ; 2.65; 15200;occ; 62; 0;40110
 12; 2010.0; 01-NOV-2009 04:37:57; Dark ; 53.5; 94; 92Alp Cet ; 2.53; 3100;occ; 107; 0;40110
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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
7; 3910.8; 01-NOV-2009 21:55:37; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;40120
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9; 4229.7; 01-NOV-2009 22:00:56; Bright; 40.0; 174; 52Psi UMa ; 3.00; 4400;occ; 80; 0;40120
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 2; 1997.8; 04-NOV-2009 09:45:17; Dark ; 51.5; 94; 92Alp Cet ; 2.53; 3100;occ; 103; 0;40156
 3; 2267.3; 04-NOV-2009 09:49:46; Bright; 39.0; 105; 6Bet Ari ; 2.64; 8900;occ; 78; 0;40156
 4; 2526.0; 04-NOV-2009 09:54:05; Bright; 38.0; 173; 4Bet Tri ; 3.00; 8900;occ; 76; 0;40156
 5; 2648.8; 04-NOV-2009 09:56:08; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;40156
 6; 2830.1; 04-NOV-2009 09:59:09; Bright; 49.0; 149; 45Eps Per ; 2.89; 30000;occ; 98; 0;40156
 7; 2911.8; 04-NOV-2009 10:00:31; Bright; 41.0; 160; 23Gam Per ; 2.93; 4700;occ; 82; 0;40156
 8; 3907.2; 04-NOV-2009 10:17:06; Bright; 42.0; 36; 50Alp UMA ; 1.80; 6300;occ; 84; 0;40156
 9; 4004.4; 04-NOV-2009 10:18:44; Bright; 37.0; 82; 48Bet UMA ; 2.37; 10600;occ; 74; 0;40156
10; 4229.8; 04-NOV-2009 10:22:29; Bright; 39.5; 174; 52Psi UMA ; 3.00; 4400;occ; 79; 0;40156
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
13; 4971.1; 04-NOV-2009 10:34:50; Dark ; 63.5; 22; 32Alp Leo ; 1.36; 15200;occ; 127; 0;40156
14; 6060.0; 04-NOV-2009 10:52:59; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;40156
15; 6205.1; 04-NOV-2009 10:55:24; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;40156
16; 6294.8; 04-NOV-2009 10:56:54; Dark ; 53.5; 70; Zet Pup ; 2.25; 39000;occ; 107; 0;40156
17; 6429.9; 04-NOV-2009 10:59:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40156
18; 6598.0; 04-NOV-2009 11:01:57; Dark ; 47.5; 2; Alp Car ;-0.74; 7000;occ; 95; 0;40156
19; 6991.7; 04-NOV-2009 11:08:31; Dark ; 57.5; 108; Alp Col ; 2.65; 15200;occ; 115; 0;40156
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 3; 2266.8; 04-NOV-2009 11:30:22; Bright; 37.0; 105; 6Bet Ari ; 2.64; 8900;occ; 74; 0;40157
 4; 2525.8; 04-NOV-2009 11:34:41; Bright; 37.5; 173; 4Bet Tri ; 3.00; 8900;occ; 75; 0;40157
 5; 2648.4; 04-NOV-2009 11:36:43; Bright; 55.0; 73; 57Gam1And ; 2.26; 13100;occ; 110; 0;40157
 6; 2829.2; 04-NOV-2009 11:39:44; Bright; 49.0; 149; 45Eps Per ; 2.89; 30000;occ; 98; 0;40157
 7; 2911.1; 04-NOV-2009 11:41:06; Bright; 40.0; 160; 23Gam Per ; 2.93; 4700;occ; 80; 0;40157
 8; 3906.9; 04-NOV-2009 11:57:42; Bright; 40.5; 36; 50Alp UMA ; 1.80; 6300;occ; 81; 0;40157

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 10; 4229.7; 04-NOV-2009 12:03:05; Bright; 39.5; 174; 52Psi UMA ; 3.00; 4400;occ; 79; 0;40157
 11; 4686.5; 04-NOV-2009 12:10:42; Bright; 59.0; 96; 68Del Leo ; 2.56; 9300;occ; 118; 0;40157
 12; 4769.6; 04-NOV-2009 12:12:05; Bright; 53.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 106; 0;40157
 13; 4971.8; 04-NOV-2009 12:15:27; Dark ; 64.5; 22; 32Alp Leo ; 1.36; 15200;occ; 129; 0;40157
 14; 6060.9; 04-NOV-2009 12:33:36; Dark ; 52.5; 65; Lam Vel ; 2.20; 4400;occ; 105; 0;40157
 15; 6205.8; 04-NOV-2009 12:36:01; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;40157
 16; 6296.0; 04-NOV-2009 12:37:31; Dark ; 53.5; 70; Zet Pup ; 2.25; 39000;occ; 107; 0;40157
 17; 6430.9; 04-NOV-2009 12:39:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40157
 18; 6598.7; 04-NOV-2009 12:42:34; Dark ; 62.0; 2; Alp Car ; -0.74; 7000;occ; 124; 0;40157
 19; 6992.4; 04-NOV-2009 12:49:07; Dark ; 60.0; 108; Alp Col ; 2.65; 15200;occ; 120; 0;40157

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 3; 2267.0; 04-NOV-2009 13:10:58; Bright; 37.5; 105; 6Bet Ari ; 2.64; 8900;occ; 75; 0;40158
 4; 2525.4; 04-NOV-2009 13:15:16; Bright; 38.0; 173; 4Bet Tri ; 3.00; 8900;occ; 76; 0;40158
 5; 2648.5; 04-NOV-2009 13:17:19; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;40158
 6; 2828.3; 04-NOV-2009 13:20:19; Bright; 50.5; 149; 45Eps Per ; 2.89; 30000;occ; 101; 0;40158
 7; 2910.8; 04-NOV-2009 13:21:42; Bright; 41.0; 160; 23Gam Per ; 2.93; 4700;occ; 82; 0;40158
 8; 3906.9; 04-NOV-2009 13:38:18; Bright; 40.5; 36; 50Alp UMa ; 1.80; 6300;occ; 81; 0;40158
 9; 4004.1; 04-NOV-2009 13:39:55; Bright; 40.0; 82; 48Bet UMA ; 2.37; 10600;occ; 80; 0;40158
 10; 4229.8; 04-NOV-2009 13:43:41; Bright; 38.5; 174; 52Psi UMA ; 3.00; 4400;occ; 77; 0;40158
 11; 4686.8; 04-NOV-2009 13:51:18; Bright; 38.5; 96; 68Del Leo ; 2.56; 9300;occ; 77; 0;40158
 12; 4770.1; 04-NOV-2009 13:52:41; Bright; 57.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 115; 0;40158
 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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 3; 2266.6; 04-NOV-2009 14:51:33; Bright; 39.5; 105; 6Bet Ari ; 2.64; 8900;occ; 79; 0;40159
 4; 2525.1; 04-NOV-2009 14:55:52; Bright; 39.0; 173; 4Bet Tri ; 3.00; 8900;occ; 78; 0;40159
 5; 2648.0; 04-NOV-2009 14:57:55; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;40159
 6; 2827.4; 04-NOV-2009 15:00:54; Bright; 51.0; 149; 45Eps Per ; 2.89; 30000;occ; 102; 0;40159
 7; 2910.4; 04-NOV-2009 15:02:17; Bright; 41.0; 160; 23Gam Per ; 2.93; 4700;occ; 82; 0;40159
 8; 3906.9; 04-NOV-2009 15:18:54; Bright; 41.5; 36; 50Alp UMa ; 1.80; 6300;occ; 83; 0;40159
 9; 4004.0; 04-NOV-2009 15:20:31; Bright; 37.5; 82; 48Bet UMA ; 2.37; 10600;occ; 75; 0;40159
 10; 4229.7; 04-NOV-2009 15:24:16; Bright; 38.5; 174; 52Psi UMA ; 3.00; 4400;occ; 77; 0;40159
 11; 4687.1; 04-NOV-2009 15:31:54; Bright; 53.0; 96; 68Del Leo ; 2.56; 9300;occ; 106; 0;40159
 12; 4770.8; 04-NOV-2009 15:33:18; Bright; 53.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 106; 0;40159
 13; 4973.4; 04-NOV-2009 15:36:40; Dark ; 64.5; 22; 32Alp Leo ; 1.36; 15200;occ; 129; 0;40159
 14; 6062.8; 04-NOV-2009 15:54:50; Dark ; 54.0; 65; Lam Vel ; 2.20; 4400;occ; 108; 0;40159
 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
 17; 6432.8; 04-NOV-2009 16:01:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40159
 18; 6600.4; 04-NOV-2009 16:03:47; Dark ; 55.0; 2; Alp Car ; -0.74; 7000;occ; 110; 0;40159
 19; 6994.4; 04-NOV-2009 16:10:21; Dark ; 61.0; 108; Alp Col ; 2.65; 15200;occ; 122; 0;40159

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 3; 2266.7; 04-NOV-2009 16:32:09; Bright; 39.5; 105; 6Bet Ari ; 2.64; 8900;occ; 79; 0;40160
 4; 2525.0; 04-NOV-2009 16:36:28; Bright; 56.0; 173; 4Bet Tri ; 3.00; 8900;occ; 112; 0;40160
 5; 2647.9; 04-NOV-2009 16:38:31; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;40160
 6; 2826.4; 04-NOV-2009 16:41:29; Bright; 49.5; 149; 45Eps Per ; 2.89; 30000;occ; 99; 0;40160
 7; 3906.8; 04-NOV-2009 16:59:30; Bright; 42.0; 36; 50Alp UMa ; 1.80; 6300;occ; 84; 0;40160
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 9; 4229.8; 04-NOV-2009 17:04:53; Bright; 39.0; 174; 52Psi UMA ; 3.00; 4400;occ; 78; 0;40160
 10; 4687.4; 04-NOV-2009 17:12:30; Bright; 59.0; 96; 68Del Leo ; 2.56; 9300;occ; 78; 0;40160
 11; 4771.1; 04-NOV-2009 17:13:54; Bright; 53.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 107; 0;40160
 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
 14; 6208.1; 04-NOV-2009 17:37:51; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;40160
 15; 6299.7; 04-NOV-2009 17:39:22; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40160
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3; 2266.5; 04-NOV-2009 18:12:45; Bright; 37.5; 105; 6Bet Ari ; 2.64; 8900;occ; 75; 0;40161
4; 2524.7; 04-NOV-2009 18:17:03; Bright; 38.0; 173; 4Bet Tri ; 3.00; 8900;occ; 76; 0;40161
5; 2647.8; 04-NOV-2009 18:19:07; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;40161
6; 2825.5; 04-NOV-2009 18:22:04; Bright; 47.5; 149; 45Eps Per ; 2.89; 30000;occ; 95; 0;40161
7; 3906.6; 04-NOV-2009 18:40:05; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;40161
8; 4003.7; 04-NOV-2009 18:41:42; Bright; 40.5; 82; 48Bet UMa ; 2.37; 10600;occ; 81; 0;40161
9; 4229.7; 04-NOV-2009 18:45:28; Bright; 57.0; 174; 52Psi UMa ; 3.00; 4400;occ; 114; 0;40161
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13; 6064.6; 04-NOV-2009 19:16:03; Dark ; 58.0; 65; Lam Vel ; 2.20; 4400;occ; 116; 0;40161
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16; 6434.7; 04-NOV-2009 19:22:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40161
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3; 1996.3; 04-NOV-2009 19:48:51; Dark ; 53.5; 94; 92Alp Cet ; 2.53; 3100;occ; 107; 0;40162
4; 2266.6; 04-NOV-2009 19:53:21; Bright; 38.5; 105; 6Bet Ari ; 2.64; 8900;occ; 77; 0;40162
5; 2524.4; 04-NOV-2009 19:57:39; Bright; 38.5; 173; 4Bet Tri ; 3.00; 8900;occ; 77; 0;40162
6; 2647.4; 04-NOV-2009 19:59:42; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;40162
7; 2824.6; 04-NOV-2009 20:02:39; Bright; 64.0; 149; 45Eps Per ; 2.89; 30000;occ; 128; 0;40162
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9; 4003.6; 04-NOV-2009 20:22:18; Bright; 42.0; 82; 48Bet UMa ; 2.37; 10600;occ; 84; 0;40162
10; 4229.9; 04-NOV-2009 20:26:05; Bright; 39.5; 174; 52Psi UMa ; 3.00; 4400;occ; 79; 0;40162
11; 4688.0; 04-NOV-2009 20:33:43; Bright; 41.0; 96; 68Del Leo ; 2.56; 9300;occ; 82; 0;40162
12; 4771.9; 04-NOV-2009 20:35:07; Bright; 73.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 146; 0;40162
13; 4975.4; 04-NOV-2009 20:38:30; Dark ; 64.0; 22; 32Alp Leo ; 1.36; 15200;occ; 128; 0;40162
14; 6065.4; 04-NOV-2009 20:56:40; Dark ; 56.5; 65; Lam Vel ; 2.20; 4400;occ; 113; 0;40162
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17; 6435.5; 04-NOV-2009 21:02:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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
4; 401.5; 05-NOV-2009 00:24:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40165
5; 568.0; 05-NOV-2009 00:26:50; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;40165
6; 962.8; 05-NOV-2009 00:33:25; Dark ; 59.5; 108; Alp Col ; 2.65; 15200;occ; 119; 0;40165
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8; 1995.6; 05-NOV-2009 00:50:38; Dark ; 52.5; 94; 92Alp Cet ; 2.53; 3100;occ; 105; 0;40165
9; 2266.2; 05-NOV-2009 00:55:09; Bright; 37.5; 105; 6Bet Ari ; 2.64; 8900;occ; 75; 0;40165
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11; 2646.8; 05-NOV-2009 01:01:29; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;40165
12; 2821.7; 05-NOV-2009 01:04:24; Bright; 50.0; 149; 45Eps Per ; 2.89; 30000;occ; 100; 0;40165
13; 3906.0; 05-NOV-2009 01:22:28; Bright; 43.0; 36; 50Alp UMa ; 1.80; 6300;occ; 86; 0;40165
14; 4003.3; 05-NOV-2009 01:24:06; Bright; 41.0; 82; 48Bet UMa ; 2.37; 10600;occ; 82; 0;40165
15; 4229.6; 05-NOV-2009 01:27:52; Bright; 39.0; 174; 52Psi UMa ; 3.00; 4400;occ; 78; 0;40165
16; 4688.7; 05-NOV-2009 01:35:31; Bright; 40.5; 96; 68Del Leo ; 2.56; 9300;occ; 81; 0;40165
17; 4773.3; 05-NOV-2009 01:36:56; Bright; 58.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 117; 0;40165
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3; 269.9; 05-NOV-2009 02:02:28; Dark ; 51.0; 70; Zet Pup ; 2.25; 39000;occ; 102; 0;40166
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5; 568.6; 05-NOV-2009 02:07:27; Dark ; 50.0; 2; Alp Car ; -0.74; 7000;occ; 100; 0;40166
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7; 1633.9; 05-NOV-2009 02:25:12; Dark ; 57.5; 165; 34Gam Eri ; 2.95; 3200;occ; 115; 0;40166
8; 1995.5; 05-NOV-2009 02:31:14; Dark ; 52.5; 94; 92Alp Cet ; 2.53; 3100;occ; 105; 0;40166
9; 2266.1; 05-NOV-2009 02:35:44; Bright; 38.5; 105; 6Bet Ari ; 2.64; 8900;occ; 77; 0;40166

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 2; 1994.1; 05-NOV-2009 14:15:24; Dark ; 51.5; 94; 92Alp Cet ; 2.53; 3100;occ; 103; 0;40173
 3; 2269.1; 05-NOV-2009 14:19:59; Bright; 35.0; 105; 6Bet Ari ; 2.64; 8900;occ; 70; 0;40173
 4; 2522.2; 05-NOV-2009 14:24:12; Bright; 37.5; 173; 4Bet Tri ; 3.00; 8900;occ; 75; 0;40173
 5; 2645.4; 05-NOV-2009 14:26:15; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;40173
 6; 2814.8; 05-NOV-2009 14:29:05; Bright; 50.0; 149; 45Eps Per ; 2.89; 30000;occ; 100; 0;40173
 7; 3905.2; 05-NOV-2009 14:47:15; Bright; 40.0; 36; 50Alp UMa ; 1.80; 6300;occ; 80; 0;40173
 8; 4002.7; 05-NOV-2009 14:48:52; Bright; 39.5; 82; 48Bet UMa ; 2.37; 10600;occ; 79; 0;40173
 9; 4229.8; 05-NOV-2009 14:52:40; Bright; 39.5; 174; 52Psi UMa ; 3.00; 4400;occ; 79; 0;40173
 10; 4691.4; 05-NOV-2009 15:00:21; Bright; 60.0; 96; 68Del Leo ; 2.56; 9300;occ; 120; 0;40173
 11; 4984.0; 05-NOV-2009 15:05:14; Dark ; 66.0; 22; 32Alp Leo ; 1.36; 15200;occ; 132; 0;40173
 12; 6075.9; 05-NOV-2009 15:23:26; Dark ; 47.0; 65; Lam Vel ; 2.20; 4400;occ; 94; 0;40173
 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
 15; 6445.8; 05-NOV-2009 15:29:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40173
 16; 6611.0; 05-NOV-2009 15:32:21; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;40173
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 3; 2317.4; 05-NOV-2009 16:01:23; Bright; 40.0; 50; 13Alp Ari ; 2.01; 4250;occ; 80; 0;40174
 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
 8; 4002.5; 05-NOV-2009 16:29:28; Bright; 40.5; 82; 48Bet UMa ; 2.37; 10600;occ; 81; 0;40174
 9; 4229.9; 05-NOV-2009 16:33:16; Bright; 38.0; 174; 52Psi UMa ; 3.00; 4400;occ; 76; 0;40174
 10; 4691.6; 05-NOV-2009 16:40:57; Bright; 47.5; 96; 68Del Leo ; 2.56; 9300;occ; 95; 0;40174
 11; 4984.7; 05-NOV-2009 16:45:50; Dark ; 66.5; 22; 32Alp Leo ; 1.36; 15200;occ; 133; 0;40174
 12; 6076.7; 05-NOV-2009 17:04:03; Dark ; 48.5; 65; Lam Vel ; 2.20; 4400;occ; 97; 0;40174
 13; 6217.9; 05-NOV-2009 17:06:24; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;40174
 14; 6316.9; 05-NOV-2009 17:08:03; Dark ; 51.5; 70; Zet Pup ; 2.25; 39000;occ; 103; 0;40174
 15; 6446.7; 05-NOV-2009 17:10:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40174
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 2; 1634.2; 05-NOV-2009 17:30:36; Dark ; 59.0; 165; 34Gam Eri ; 2.95; 3200;occ; 118; 0;40175
 3; 1993.7; 05-NOV-2009 17:36:36; Dark ; 50.5; 94; 92Alp Cet ; 2.53; 3100;occ; 101; 0;40175


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5; 2521.7; 05-NOV-2009 17:45:24; Bright; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;40175
6; 2644.8; 05-NOV-2009 17:47:27; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;40175
7; 2813.0; 05-NOV-2009 17:50:15; Bright; 49.5; 149; 45Eps Per ; 2.89; 30000;occ; 99; 0;40175
8; 3904.9; 05-NOV-2009 18:08:27; Bright; 42.0; 36; 50Alp UMA ; 1.80; 6300;occ; 84; 0;40175
9; 4002.5; 05-NOV-2009 18:10:04; Bright; 39.5; 82; 48Bet UMA ; 2.37; 10600;occ; 79; 0;40175
10; 4229.7; 05-NOV-2009 18:13:51; Bright; 41.5; 174; 52Psi UMA ; 3.00; 4400;occ; 83; 0;40175
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13; 6077.7; 05-NOV-2009 18:44:39; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;40175
14; 6218.6; 05-NOV-2009 18:47:00; Dark ; 44.0; 46; Del Vel ; 1.95; 10600;occ; 88; 0;40175
15; 6318.1; 05-NOV-2009 18:48:40; Dark ; 51.5; 70; Zet Pup ; 2.25; 39000;occ; 103; 0;40175
16; 6447.6; 05-NOV-2009 18:50:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40175
17; 6612.5; 05-NOV-2009 18:53:34; Dark ; 61.5; 2; Alp Car ;-0.74; 7000;occ; 123; 0;40175
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3; 1993.5; 05-NOV-2009 19:17:11; Dark ; 52.0; 94; 92Alp Cet ; 2.53; 3100;occ; 104; 0;40176
4; 2317.1; 05-NOV-2009 19:22:35; Bright; 41.0; 50; 13Alp Ari ; 2.01; 4250;occ; 82; 0;40176
5; 2521.7; 05-NOV-2009 19:26:00; Bright; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;40176
6; 2644.8; 05-NOV-2009 19:28:03; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;40176
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9; 4002.5; 05-NOV-2009 19:50:40; Bright; 41.0; 82; 48Bet UMA ; 2.37; 10600;occ; 82; 0;40176
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14; 6078.5; 05-NOV-2009 20:25:16; Dark ; 52.5; 65; Lam Vel ; 2.20; 4400;occ; 105; 0;40176
15; 6219.2; 05-NOV-2009 20:27:37; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;40176
16; 6319.2; 05-NOV-2009 20:29:17; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40176
17; 6448.4; 05-NOV-2009 20:31:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40176
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3; 579.4; 06-NOV-2009 01:36:01; Dark ; 50.0; 2; Alp Car ;-0.74; 7000;occ; 100; 0;40180
4; 1164.3; 06-NOV-2009 01:45:46; Dark ; 39.5; 157; The1Eri ; 2.91; 9300;occ; 79; 0;40180
5; 1992.6; 06-NOV-2009 01:59:34; Dark ; 51.5; 94; 92Alp Cet ; 2.53; 3100;occ; 103; 0;40180
6; 2264.9; 06-NOV-2009 02:04:06; Bright; 38.0; 105; 6Bet Ari ; 2.64; 8900;occ; 76; 0;40180
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8; 2643.8; 06-NOV-2009 02:10:25; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;40180
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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5; 108.5; 06-NOV-2009 03:08:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40181
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7; 580.3; 06-NOV-2009 03:16:38; Dark ; 50.0; 2; Alp Car ;-0.74; 7000;occ; 100; 0;40181
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9; 1992.5; 06-NOV-2009 03:40:10; Dark ; 52.5; 94; 92Alp Cet ; 2.53; 3100;occ; 105; 0;40181
10; 2265.3; 06-NOV-2009 03:44:43; Bright; 37.5; 105; 6Bet Ari ; 2.64; 8900;occ; 75; 0;40181
11; 2521.1; 06-NOV-2009 03:48:58; Bright; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;40181
12; 2643.7; 06-NOV-2009 03:51:01; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;40181
13; 2877.8; 06-NOV-2009 03:54:55; Bright; 42.0; 35; 33Alp Per ; 1.79; 6250;occ; 84; 0;40181
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2;-2034.1; 06-NOV-2009 04:13:39; Bright; 36.0; 82; 48Bet UMA ; 2.37; 10600;occ; 72; 0;40181
3;-1806.3; 06-NOV-2009 04:17:27; Bright; 58.0; 174; 52Psi UMA ; 3.00; 4400;occ; 116; 0;40181
4;-1342.4; 06-NOV-2009 04:25:11; Bright; 49.5; 96; 68Del Leo ; 2.56; 9300;occ; 99; 0;40181
5; 109.3; 06-NOV-2009 04:49:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40182
6; 267.8; 06-NOV-2009 04:52:01; Dark ; 47.0; 34; Gam2Vel ; 1.79; 23000;occ; 94; 0;40182
7; 581.0; 06-NOV-2009 04:57:14; Dark ; 50.0; 2; Alp Car ;-0.74; 7000;occ; 100; 0;40182
8; 1164.9; 06-NOV-2009 05:06:58; Dark ; 39.5; 157; The1Eri ; 2.91; 9300;occ; 79; 0;40182

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2; 1990.4; 06-NOV-2009 20:26:07; Dark ; 52.0; 94; 92Alp Cet ; 2.53; 3100;occ; 104; 0;40191
3; 2264.2; 06-NOV-2009 20:30:41; Bright; 38.5; 105; 6Bet Ari ; 2.64; 8900;occ; 77; 0;40191
4; 2518.4; 06-NOV-2009 20:34:55; Bright; 37.0; 173; 4Bet Tri ; 3.00; 8900;occ; 74; 0;40191
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7; 3902.8; 06-NOV-2009 20:58:00; Bright; 42.5; 36; 50Alp UMA ; 1.80; 6300;occ; 85; 0;40191
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9; 4229.2; 06-NOV-2009 21:03:26; Bright; 41.0; 174; 52Psi UMA ; 3.00; 4400;occ; 82; 0;40191
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4; 1167.8; 06-NOV-2009 21:53:00; Dark ; 40.0; 157; The1Eri ; 2.91; 9300;occ; 80; 0;40192
5; 1990.4; 06-NOV-2009 22:06:43; Dark ; 51.5; 94; 92Alp Cet ; 2.53; 3100;occ; 103; 0;40192
6; 2518.3; 06-NOV-2009 22:15:31; Bright; 38.5; 173; 4Bet Tri ; 3.00; 8900;occ; 77; 0;40192
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22; 7156.4; 28-NOV-2009 11:57:13; Dark ; 34.0; 23; 21Eps CMA ; 1.50; 26000;occ; 68; 0;40500
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