

GOMOS Daily Report 22-NOV-2009

Level 0 and Level 1 products

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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	24NOV2009 04:34:45
Data source version	GOMOS/5.00L04
Start time of products	22NOV2009 00:01:44
Stop time of products	22NOV2009 23:57:23
Store outputs in DB	Yes
Nb of level 1b prods	126
Nb of prods with errors	1

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

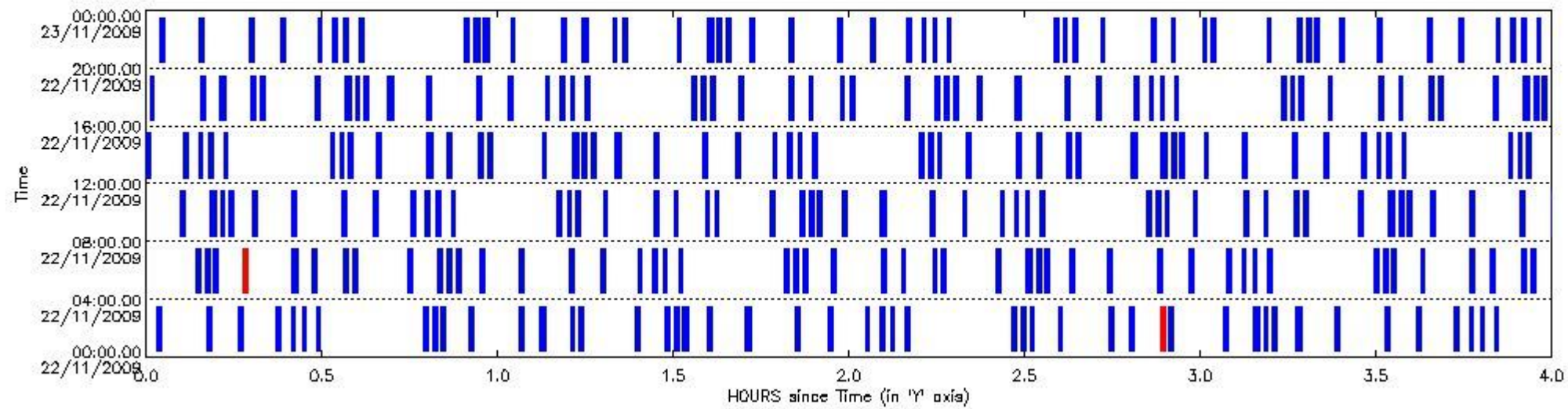
2.1 Level 0 products arrived in PCF (see template [here](#))

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)

UTC start time	Star name	Star ID	Orbit
22-NOV-2009 02:53:07	4GamCrv	100	40409
22-NOV-2009 04:16:28	12Alp2CVn	152	40410

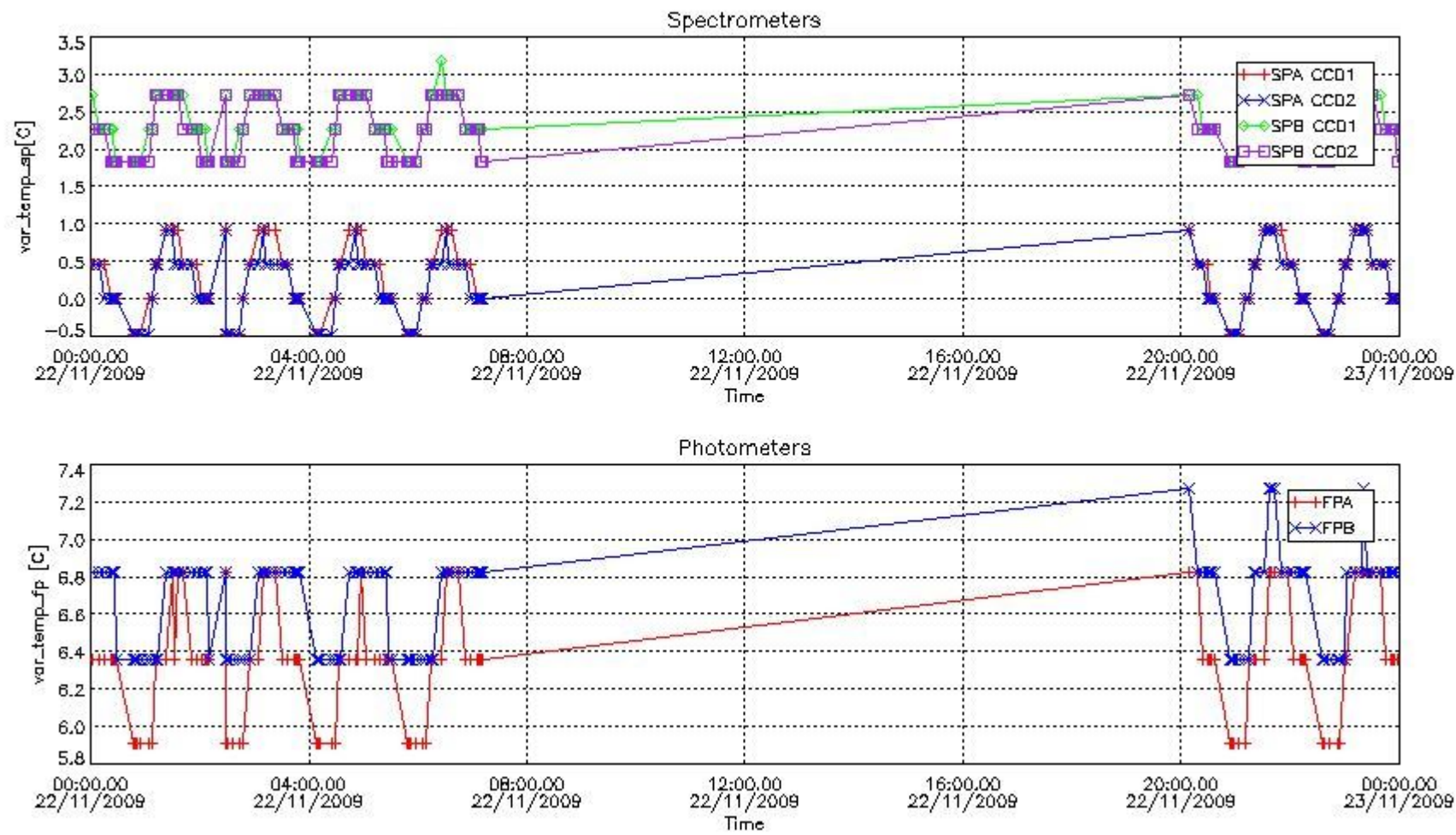
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20091122_000144_000000522084_00274_40408_4155.N1	22-NOV-2009 00:01:44	Dark	51.500	108	Alp Col	2.6520	15200.	103	40408	No
2	GOM_TRA_1PNPDE20091122_001018_000000492084_00274_40408_4156.N1	22-NOV-2009 00:10:18	Straylight	49.000	165	34Gam Eri	2.9500	3200.0	98	40408	No
3	GOM_TRA_1PNPDE20091122_001545_000000452084_00274_40408_4157.N1	22-NOV-2009 00:15:45	Twilight_and_stray	45.000	94	92Alp Cet	2.5260	3100.0	90	40408	No
4	GOM_TRA_1PNPDE20091122_002212_000000412084_00274_40408_4158.N1	22-NOV-2009 00:22:12	Bright	41.000	146	25Eta Tau	2.8730	15200.	82	40408	No
5	GOM_TRA_1PNPDE20091122_002443_000000432084_00274_40408_4159.N1	22-NOV-2009 00:24:43	Bright	42.500	150	44Zet Per	2.8900	28000.	85	40408	No
6	GOM_TRA_1PNPDE20091122_002633_000000392084_00274_40408_4160.N1	22-NOV-2009 00:26:33	Bright	38.500	79	26Bet Per	2.3100	13100.	77	40408	No
7	GOM_TRA_1PNPDE20091122_002905_000000372084_00274_40408_4161.N1	22-NOV-2009 00:29:05	Bright	37.000	175	39Del Per	3.0100	19400.	74	40408	No
8	GOM_TRA_1PNPDE20091122_004713_000000472084_00274_40408_4162.N1	22-NOV-2009 00:47:13	Bright	46.500	36	50Alp UMa	1.8000	6300.0	93	40408	No
9	GOM_TRA_1PNPDE20091122_004851_000000482084_00274_40408_4163.N1	22-NOV-2009 00:48:51	Bright	48.000	82	48Bet UMa	2.3650	10600.	96	40408	No

10	GOM_TRA_1PNPDE20091122_005019_000000432084_00274_40408_4164.N1	22-NOV-2009 00:50:19	Bright	42.500	87	64Gam UMa	2.4330	11000.	85	40408	No
11	GOM_TRA_1PNPDE20091122_005510_000000372084_00274_40408_4165.N1	22-NOV-2009 00:55:10	Bright	37.000	152	12Alp2CVn	2.8900	11000.	74	40408	No
12	GOM_TRA_1PNPDE20091122_010341_000000462084_00274_40408_4166.N1	22-NOV-2009 01:03:41	Bright	45.500	62	94Bet Leo	2.1360	9700.0	91	40408	No
13	GOM_TRA_1PNPDE20091122_010709_000000562084_00274_40408_4167.N1	22-NOV-2009 01:07:09	Bright	56.000	121	29Gam Vir	2.7400	7200.0	112	40408	No
14	GOM_TRA_1PNPDE20091122_011224_000000432084_00274_40408_4155.N1	22-NOV-2009 01:12:24	Twilight	42.500	100	4Gam Crv	2.5800	13100.	85	40408	No
15	GOM_TRA_1PNPDE20091122_011357_000000492084_00274_40408_4156.N1	22-NOV-2009 01:13:57	Twilight	48.500	171	2Eps Crv	3.0010	4250.0	97	40408	No
16	GOM_TRA_1PNPDE20091122_012321_000000502084_00274_40408_4157.N1	22-NOV-2009 01:23:21	Dark	50.000	113	Mu Vel	2.6920	5000.0	100	40408	No
17	GOM_TRA_1PNPDE20091122_013012_000000442084_00275_40409_4158.N1	22-NOV-2009 01:30:12	Dark	43.500	41	Eps Car	1.8600	4100.0	87	40409	No
18	GOM_TRA_1PNPDE20091122_013135_000000562084_00275_40409_4159.N1	22-NOV-2009 01:31:35	Dark	56.000	34	Gam2Vel	1.7930	23000.	112	40409	No
19	GOM_TRA_1PNPDE20091122_013542_000000512084_00275_40409_4160.N1	22-NOV-2009 01:35:42	Dark	51.000	2	Alp Car	-0.73600	7000.0	102	40409	No
20	GOM_TRA_1PNPDE20091122_014220_000000512084_00275_40409_4161.N1	22-NOV-2009 01:42:20	Dark	51.000	108	Alp Col	2.6520	15200.	102	40409	No
21	GOM_TRA_1PNPDE20091122_015055_000000492084_00275_40409_4162.N1	22-NOV-2009 01:50:55	Straylight	48.500	165	34Gam Eri	2.9500	3200.0	97	40409	No
22	GOM_TRA_1PNPDE20091122_015621_000000462084_00275_40409_4163.N1	22-NOV-2009 01:56:21	Twilight	45.500	94	92Alp Cet	2.5260	3100.0	91	40409	No
23	GOM_TRA_1PNPDE20091122_020247_000000442084_00275_40409_4164.N1	22-NOV-2009 02:02:47	Bright	43.500	146	25Eta Tau	2.8730	15200.	87	40409	No
24	GOM_TRA_1PNPDE20091122_020519_000000432084_00275_40409_4165.N1	22-NOV-2009 02:05:19	Bright	42.500	150	44Zet Per	2.8900	28000.	85	40409	No
25	GOM_TRA_1PNPDE20091122_020708_000000402084_00275_40409_4166.N1	22-NOV-2009 02:07:08	Bright	39.500	79	26Bet Per	2.3100	13100.	79	40409	No
26	GOM_TRA_1PNPDE20091122_020940_000000392084_00275_40409_4167.N1	22-NOV-2009 02:09:40	Bright	38.500	175	39Del Per	3.0100	19400.	77	40409	No
27	GOM_TRA_1PNPDE20091122_022748_000000432084_00275_40409_4165.N1	22-NOV-2009 02:27:48	Bright	43.000	36	50Alp UMa	1.8000	6300.0	86	40409	Yes
28	GOM_TRA_1PNPDE20091122_022926_000000442084_00275_40409_4166.N1	22-NOV-2009 02:29:26	Bright	43.500	82	48Bet UMa	2.3650	10600.	87	40409	No
29	GOM_TRA_1PNPDE20091122_023055_000000392084_00275_40409_4167.N1	22-NOV-2009 02:30:55	Bright	39.000	87	64Gam UMa	2.4330	11000.	78	40409	No
30	GOM_TRA_1PNPDE20091122_023546_000000412084_00275_40409_4168.N1	22-NOV-2009 02:35:46	Bright	41.000	152	12Alp2CVn	2.8900	11000.	82	40409	No
31	GOM_TRA_1PNPDE20091122_024417_000000602084_00275_40409_4169.N1	22-NOV-2009 02:44:17	Bright	60.000	62	94Bet Leo	2.1360	9700.0	120	40409	No
32	GOM_TRA_1PNPDE20091122_024745_000000562084_00275_40409_4170.N1	22-NOV-2009 02:47:45	Bright	56.000	121	29Gam Vir	2.7400	7200.0	112	40409	No
33	GOM_TRA_1PNPDE20091122_025434_000000452084_00275_40409_4171.N1	22-NOV-2009 02:54:34	Twilight	45.000	171	2Eps Crv	3.0010	4250.0	90	40409	No
34	GOM_TRA_1PNPDE20091122_030358_000000432084_00275_40409_4172.N1	22-NOV-2009 03:03:58	Dark	42.500	113	Mu Vel	2.6920	5000.0	85	40409	No
35	GOM_TRA_1PNPDE20091122_031049_000000432084_00276_40410_4173.N1	22-NOV-2009 03:10:49	Dark	43.000	41	Eps Car	1.8600	4100.0	86	40410	No
36	GOM_TRA_1PNPDE20091122_031212_000000482084_00276_40410_4174.N1	22-NOV-2009 03:12:12	Dark	47.500	34	Gam2Vel	1.7930	23000.	95	40410	No
37	GOM_TRA_1PNPDE20091122_031619_000000602084_00276_40410_4175.N1	22-NOV-2009 03:16:19	Dark	60.000	2	Alp Car	-0.73600	7000.0	120	40410	No
38	GOM_TRA_1PNPDE20091122_032257_000000512084_00276_40410_4176.N1	22-NOV-2009 03:22:57	Dark	50.500	108	Alp Col	2.6520	15200.	101	40410	No
39	GOM_TRA_1PNPDE20091122_033131_000000502084_00276_40410_4177.N1	22-NOV-2009 03:31:31	Straylight	49.500	165	34Gam Eri	2.9500	3200.0	99	40410	No
40	GOM_TRA_1PNPDE20091122_033657_000000462084_00276_40410_4178.N1	22-NOV-2009 03:36:57	Twilight	45.500	94	92Alp Cet	2.5260	3100.0	91	40410	No
41	GOM_TRA_1PNPDE20091122_034323_000000432084_00276_40410_4179.N1	22-NOV-2009 03:43:23	Bright	42.500	146	25Eta Tau	2.8730	15200.	85	40410	No
42	GOM_TRA_1PNPDE20091122_034554_000000412084_00276_40410_4180.N1	22-NOV-2009 03:45:54	Bright	40.500	150	44Zet Per	2.8900	28000.	81	40410	No
43	GOM_TRA_1PNPDE20091122_034744_000000382084_00276_40410_4181.N1	22-NOV-2009 03:47:44	Bright	38.000	79	26Bet Per	2.3100	13100.	76	40410	No
44	GOM_TRA_1PNPDE20091122_035016_000000372084_00276_40410_4182.N1	22-NOV-2009 03:50:16	Bright	37.000	175	39Del Per	3.0100	19400.	74	40410	No
45	GOM_TRA_1PNPDE20091122_040824_000000462084_00276_40410_4169.N1	22-NOV-2009 04:08:24	Bright	45.500	36	50Alp UMa	1.8000	6300.0	91	40410	No
46	GOM_TRA_1PNPDE20091122_041002_000000442084_00276_40410_4170.N1	22-NOV-2009 04:10:02	Bright	44.000	82	48Bet UMa	2.3650	10600.	88	40410	No
47	GOM_TRA_1PNPDE20091122_041131_000000402084_00276_40410_4171.N1	22-NOV-2009 04:11:31	Bright	40.000	87	64Gam UMa	2.4330	11000.	80	40410	No
48	GOM_TRA_1PNPDE20091122_042454_000000672084_00276_40410_4172.N1	22-NOV-2009 04:24:54	Bright	67.000	62	94Bet Leo	2.1360	9700.0	134	40410	No
49	GOM_TRA_1PNPDE20091122_042821_000000392084_00276_40410_4173.N1	22-NOV-2009 04:28:21	Bright	39.000	121	29Gam Vir	2.7400	7200.0	78	40410	No
50	GOM_TRA_1PNPDE20091122_043337_000000452084_00276_40410_4174.N1	22-NOV-2009 04:33:37	Twilight	44.500	100	4Gam Crv	2.5800	13100.	89	40410	No
51	GOM_TRA_1PNPDE20091122_043510_000000482084_00276_40410_4175.N1	22-NOV-2009 04:35:10	Twilight	48.000	171	2Eps Crv	3.0010	4250.0	96	40410	No
52	GOM_TRA_1PNPDE20091122_044435_000000522084_00276_40410_4176.N1	22-NOV-2009 04:44:35	Dark	51.500	113	Mu Vel	2.6920	5000.0	103	40410	No
53	GOM_TRA_1PNPDE20091122_045125_000000432084_00277_40411_4177.N1	22-NOV-2009 04:51:25	Dark	42.500	41	Eps Car	1.8600	4100.0	85	40411	No
54	GOM_TRA_1PNPDE20091122_045249_000000482084_00277_40411_4178.N1	22-NOV-2009 04:52:49	Dark	47.500	34	Gam2Vel	1.7930	23000.	95	40411	No
55	GOM_TRA_1PNPDE20091122_045655_000000502084_00277_40411_4179.N1	22-NOV-2009 04:56:55	Dark	49.500	2	Alp Car	-0.73600	7000.0	99	40411	No
56	GOM_TRA_1PNPDE20091122_050333_000000512084_00277_40411_4180.N1	22-NOV-2009 05:03:33	Dark	50.500	108	Alp Col	2.6520	15200.	101	40411	No
57	GOM_TRA_1PNPDE20091122_051207_000000492084_00277_40411_4181.N1	22-NOV-2009 05:12:07	Straylight	48.500	165	34Gam Eri	2.9500	3200.0	97	40411	No
58	GOM_TRA_1PNPDE20091122_051733_000000462084_00277_40411_4182.N1	22-NOV-2009 05:17:33	Twilight	46.000	94	92Alp Cet	2.5260	3100.0	92	40411	No
59	GOM_TRA_1PNPDE20091122_052359_000000422084_00277_40411_4183.N1	22-NOV-2009 05:23:59	Bright	42.000	146	25Eta Tau	2.8730	15200.	84	40411	No
60	GOM_TRA_1PNPDE20091122_052630_000000422084_00277_40411_4184.N1	22-NOV-2009 05:26:30	Bright	41.500	150	44Zet Per	2.8900	28000.	83	40411	No
61	GOM_TRA_1PNPDE20091122_052820_000000372084_00277_40411_4185.N1	22-NOV-2009 05:28:20	Bright	36.500	79	26Bet Per	2.3100	13100.	73	40411	No
62	GOM_TRA_1PNPDE20091122_053051_000000392084_00277_40411_4186.N1	22-NOV-2009 05:30:51	Bright	38.500	175	39Del Per	3.0100	19400.	77	40411	No
63	GOM_TRA_1PNPDE20091122_054900_000000392084_00277_40411_4176.N1	22-NOV-2009 05:49:00	Bright	39.000	36	50Alp UMa	1.8000	6300.0	78	40411	No
64	GOM_TRA_1PNPDE20091122_055038_000000482084_00277_40411_4177.N1	22-NOV-2009 05:50:38	Bright	48.000	82	48Bet UMa	2.3650	10600.	96	40411	No
65	GOM_TRA_1PNPDE20091122_055207_000000562084_00277_40411_4178.N1	22-NOV-2009 05:52:07	Bright	56.000	87	64Gam UMa	2.4330	11000.	112	40411	No
66	GOM_TRA_1PNPDE20091122_055658_000000552084_00277_40411_4179.N1	22-NOV-2009 05:56:58	Bright	55.000	152	12Alp2CVn	2.8900	11000.	110	40411	No
67	GOM_TRA_1PNPDE20091122_060530_000000432084_00277_40411_4180.N1	22-NOV-2009 06:05:30	Bright	43.000	62	94Bet Leo	2.1360	9700.0	86	40411	No
68	GOM_TRA_1PNPDE20091122_060858_000000372084_00277_40411_4181.N1	22-NOV-2009 06:08:58	Bright	37.000	121	29Gam Vir	2.7400	7200.0	74	40411	No

69	GOM_TRA_1PNPDE20091122_061414_000000452084_00277_40411_4182.N1	22-NOV-2009 06:14:14	Twilight	45.000	100	4Gam Crv	2.5800	13100.	90	40411	No
70	GOM_TRA_1PNPDE20091122_061547_000000472084_00277_40411_4183.N1	22-NOV-2009 06:15:47	Twilight	46.500	171	2Eps Crv	3.0010	4250.0	93	40411	No
71	GOM_TRA_1PNPDE20091122_062511_000000412084_00277_40411_4184.N1	22-NOV-2009 06:25:11	Dark	41.000	113	Mu Vel	2.6920	5000.0	82	40411	No
72	GOM_TRA_1PNPDE20091122_063202_000000432084_00278_40412_4185.N1	22-NOV-2009 06:32:02	Dark	43.000	41	Eps Car	1.8600	4100.0	86	40412	No
73	GOM_TRA_1PNPDE20091122_063326_000000542084_00278_40412_4186.N1	22-NOV-2009 06:33:26	Dark	53.500	34	Gam2Vel	1.7930	23000.	107	40412	No
74	GOM_TRA_1PNPDE20091122_063732_000000602084_00278_40412_4187.N1	22-NOV-2009 06:37:32	Dark	60.000	2	Alp Car	-0.73600	7000.0	120	40412	No
75	GOM_TRA_1PNPDE20091122_064409_000000492084_00278_40412_4188.N1	22-NOV-2009 06:44:09	Dark	49.000	108	Alp Col	2.6520	15200.	98	40412	No
76	GOM_TRA_1PNPDE20091122_065243_000000472084_00278_40412_4189.N1	22-NOV-2009 06:52:43	Straylight	47.000	165	34Gam Eri	2.9500	3200.0	94	40412	No
77	GOM_TRA_1PNPDE20091122_065809_000000442084_00278_40412_4190.N1	22-NOV-2009 06:58:09	Twilight	43.500	94	92Alp Cet	2.5260	3100.0	87	40412	No
78	GOM_TRA_1PNPDE20091122_070434_000000412084_00278_40412_4191.N1	22-NOV-2009 07:04:34	Bright	40.500	146	25Eta Tau	2.8730	15200.	81	40412	No
79	GOM_TRA_1PNPDE20091122_070706_000000402084_00278_40412_4192.N1	22-NOV-2009 07:07:06	Bright	40.000	150	44Zet Per	2.8900	28000.	80	40412	No
80	GOM_TRA_1PNPDE20091122_070856_000000392084_00278_40412_4193.N1	22-NOV-2009 07:08:56	Bright	38.500	79	26Bet Per	2.3100	13100.	77	40412	No
81	GOM_TRA_1PNPDE20091122_071127_000000402084_00278_40412_4194.N1	22-NOV-2009 07:11:27	Bright	39.500	175	39Del Per	3.0100	19400.	79	40412	No
82	GOM_TRA_1PNPDE20091122_200901_000000502084_00286_40420_4218.N1	22-NOV-2009 20:09:01	Dark	50.000	108	Alp Col	2.6520	15200.	100	40420	No
83	GOM_TRA_1PNPDE20091122_201731_000000482084_00286_40420_4219.N1	22-NOV-2009 20:17:31	Straylight	47.500	165	34Gam Eri	2.9500	3200.0	95	40420	No
84	GOM_TRA_1PNPDE20091122_202256_000000462084_00286_40420_4220.N1	22-NOV-2009 20:22:56	Twilight	45.500	94	92Alp Cet	2.5260	3100.0	91	40420	No
85	GOM_TRA_1PNPDE20091122_202919_000000412084_00286_40420_4221.N1	22-NOV-2009 20:29:19	Bright	40.500	146	25Eta Tau	2.8730	15200.	81	40420	No
86	GOM_TRA_1PNPDE20091122_203150_000000432084_00286_40420_4222.N1	22-NOV-2009 20:31:50	Bright	42.500	150	44Zet Per	2.8900	28000.	85	40420	No
87	GOM_TRA_1PNPDE20091122_203342_000000402084_00286_40420_4223.N1	22-NOV-2009 20:33:42	Bright	39.500	79	26Bet Per	2.3100	13100.	79	40420	No
88	GOM_TRA_1PNPDE20091122_203612_000000512084_00286_40420_4224.N1	22-NOV-2009 20:36:12	Bright	51.000	175	39Del Per	3.0100	19400.	102	40420	No
89	GOM_TRA_1PNPDE20091122_205421_000000402084_00286_40420_4225.N1	22-NOV-2009 20:54:21	Bright	39.500	36	50Alp UMa	1.8000	6300.0	79	40420	No
90	GOM_TRA_1PNPDE20091122_205559_000000512084_00286_40420_4226.N1	22-NOV-2009 20:55:59	Bright	50.500	82	48Bet UMa	2.3650	10600.	101	40420	No
91	GOM_TRA_1PNPDE20091122_205729_000000592084_00286_40420_4227.N1	22-NOV-2009 20:57:29	Bright	59.000	87	64Gam UMa	2.4330	11000.	118	40420	No
92	GOM_TRA_1PNPDE20091122_210222_000000342084_00286_40420_4228.N1	22-NOV-2009 21:02:22	Bright	33.500	152	12Alp2CVn	2.8900	11000.	67	40420	No
93	GOM_TRA_1PNPDE20091122_211057_000000432084_00286_40420_4229.N1	22-NOV-2009 21:10:57	Bright	43.000	62	94Bet Leo	2.1360	9700.0	86	40420	No
94	GOM_TRA_1PNPDE20091122_211425_000000562084_00286_40420_4230.N1	22-NOV-2009 21:14:25	Bright	55.500	121	29Gam Vir	2.7400	7200.0	111	40420	No
95	GOM_TRA_1PNPDE20091122_211942_000000402084_00286_40420_4224.N1	22-NOV-2009 21:19:42	Twilight	40.000	100	4Gam Crv	2.5800	13100.	80	40420	No
96	GOM_TRA_1PNPDE20091122_212115_000000492084_00286_40420_4225.N1	22-NOV-2009 21:21:15	Twilight	49.000	171	2Eps Crv	3.0010	4250.0	98	40420	No
97	GOM_TRA_1PNPDE20091122_213041_000000422084_00286_40420_4226.N1	22-NOV-2009 21:30:41	Dark	41.500	113	Mu Vel	2.6920	5000.0	83	40420	No
98	GOM_TRA_1PNPDE20091122_213731_000000462084_00287_40421_4227.N1	22-NOV-2009 21:37:31	Dark	46.000	41	Eps Car	1.8600	4100.0	92	40421	No
99	GOM_TRA_1PNPDE20091122_213858_000000472084_00287_40421_4228.N1	22-NOV-2009 21:38:58	Dark	46.500	34	Gam2Vel	1.7930	23000.	93	40421	No
100	GOM_TRA_1PNPDE20091122_214301_000000482084_00287_40421_4229.N1	22-NOV-2009 21:43:01	Dark	48.000	2	Alp Car	-0.73600	7000.0	96	40421	No
101	GOM_TRA_1PNPDE20091122_214938_000000502084_00287_40421_4230.N1	22-NOV-2009 21:49:38	Dark	49.500	108	Alp Col	2.6520	15200.	99	40421	No
102	GOM_TRA_1PNPDE20091122_215807_000000482084_00287_40421_4231.N1	22-NOV-2009 21:58:07	Straylight	47.500	165	34Gam Eri	2.9500	3200.0	95	40421	No
103	GOM_TRA_1PNPDE20091122_220332_000000482084_00287_40421_4232.N1	22-NOV-2009 22:03:32	Twilight	47.500	94	92Alp Cet	2.5260	3100.0	95	40421	No
104	GOM_TRA_1PNPDE20091122_220955_000000422084_00287_40421_4233.N1	22-NOV-2009 22:09:55	Bright	41.500	146	25Eta Tau	2.8730	15200.	83	40421	No
105	GOM_TRA_1PNPDE20091122_221225_000000422084_00287_40421_4234.N1	22-NOV-2009 22:12:25	Bright	41.500	150	44Zet Per	2.8900	28000.	83	40421	No
106	GOM_TRA_1PNPDE20091122_221417_000000392084_00287_40421_4235.N1	22-NOV-2009 22:14:17	Bright	39.000	79	26Bet Per	2.3100	13100.	78	40421	No
107	GOM_TRA_1PNPDE20091122_221647_000000372084_00287_40421_4236.N1	22-NOV-2009 22:16:47	Bright	37.000	175	39Del Per	3.0100	19400.	74	40421	No
108	GOM_TRA_1PNPDE20091122_223456_000000552084_00287_40421_4237.N1	22-NOV-2009 22:34:56	Bright	55.000	36	50Alp UMa	1.8000	6300.0	110	40421	No
109	GOM_TRA_1PNPDE20091122_223634_000000412084_00287_40421_4238.N1	22-NOV-2009 22:36:34	Bright	41.000	82	48Bet UMa	2.3650	10600.	82	40421	No
110	GOM_TRA_1PNPDE20091122_223805_000000512084_00287_40421_4239.N1	22-NOV-2009 22:38:05	Bright	51.000	87	64Gam UMa	2.4330	11000.	102	40421	No
111	GOM_TRA_1PNPDE20091122_224258_000000382084_00287_40421_4240.N1	22-NOV-2009 22:42:58	Bright	38.000	152	12Alp2CVn	2.8900	11000.	76	40421	No
112	GOM_TRA_1PNPDE20091122_225134_000000492084_00287_40421_4241.N1	22-NOV-2009 22:51:34	Bright	49.000	62	94Bet Leo	2.1360	9700.0	98	40421	No
113	GOM_TRA_1PNPDE20091122_225501_000000372084_00287_40421_4242.N1	22-NOV-2009 22:55:01	Bright	37.000	121	29Gam Vir	2.7400	7200.0	74	40421	No
114	GOM_TRA_1PNPDE20091122_230019_000000442084_00287_40421_4230.N1	22-NOV-2009 23:00:19	Twilight	44.000	100	4Gam Crv	2.5800	13100.	88	40421	No
115	GOM_TRA_1PNPDE20091122_230152_000000452084_00287_40421_4231.N1	22-NOV-2009 23:01:52	Twilight	45.000	171	2Eps Crv	3.0010	4250.0	90	40421	No
116	GOM_TRA_1PNPDE20091122_231118_000000402084_00287_40421_4232.N1	22-NOV-2009 23:11:18	Dark	40.000	113	Mu Vel	2.6920	5000.0	80	40421	No
117	GOM_TRA_1PNPDE20091122_231808_000000462084_00288_40422_4233.N1	22-NOV-2009 23:18:08	Dark	45.500	41	Eps Car	1.8600	4100.0	91	40422	No
118	GOM_TRA_1PNPDE20091122_231934_000000482084_00288_40422_4234.N1	22-NOV-2009 23:19:34	Dark	47.500	34	Gam2Vel	1.7930	23000.	95	40422	No
119	GOM_TRA_1PNPDE20091122_232337_000000602084_00288_40422_4235.N1	22-NOV-2009 23:23:37	Dark	60.000	2	Alp Car	-0.73600	7000.0	120	40422	No
120	GOM_TRA_1PNPDE20091122_233014_000000522084_00288_40422_4236.N1	22-NOV-2009 23:30:14	Dark	51.500	108	Alp Col	2.6520	15200.	103	40422	No
121	GOM_TRA_1PNPDE20091122_233843_000000472084_00288_40422_4237.N1	22-NOV-2009 23:38:43	Straylight	47.000	165	34Gam Eri	2.9500	3200.0	94	40422	No
122	GOM_TRA_1PNPDE20091122_234408_000000462084_00288_40422_4238.N1	22-NOV-2009 23:44:08	Twilight	45.500	94	92Alp Cet	2.5260	3100.0	91	40422	No
123	GOM_TRA_1PNPDE20091122_235030_000000422084_00288_40422_4239.N1	22-NOV-2009 23:50:30	Bright	41.500	146	25Eta Tau	2.8730	15200.	83	40422	No
124	GOM_TRA_1PNPDE20091122_235301_000000422084_00288_40422_4240.N1	22-NOV-2009 23:53:01	Bright	42.000	150	44Zet Per	2.8900	28000.	84	40422	No
125	GOM_TRA_1PNPDE20091122_235453_000000392084_00288_40422_4241.N1	22-NOV-2009 23:54:53	Bright	39.000	79	26Bet Per	2.3100	13100.	78	40422	No
126	GOM_TRA_1PNPDE20091122_235723_000000372084_00288_40422_4242.N1	22-NOV-2009 23:57:23	Bright	36.500	175	39Del Per	3.0100	19400.	73	40422	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).

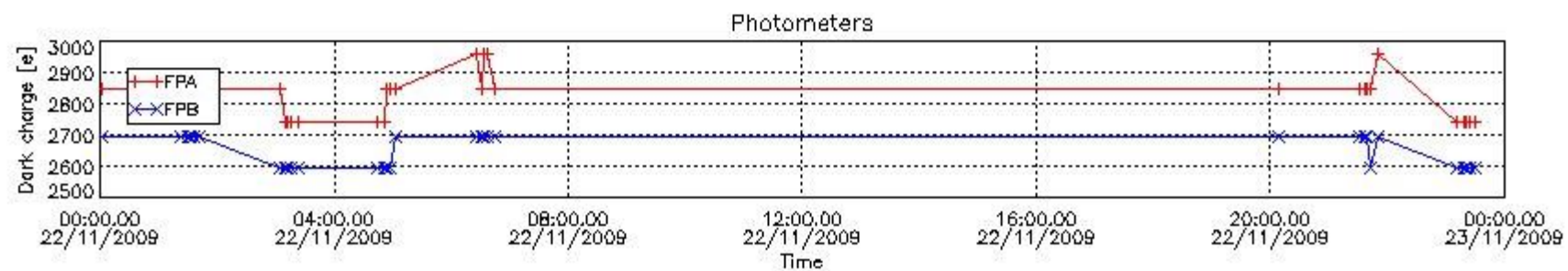
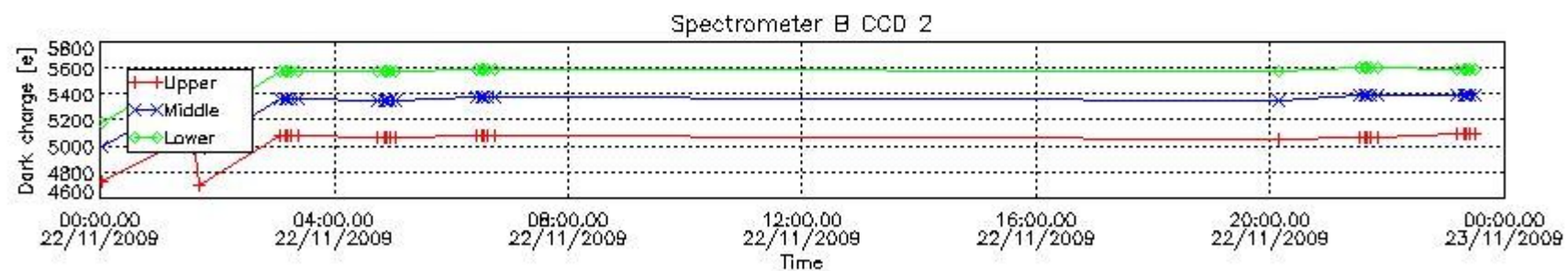
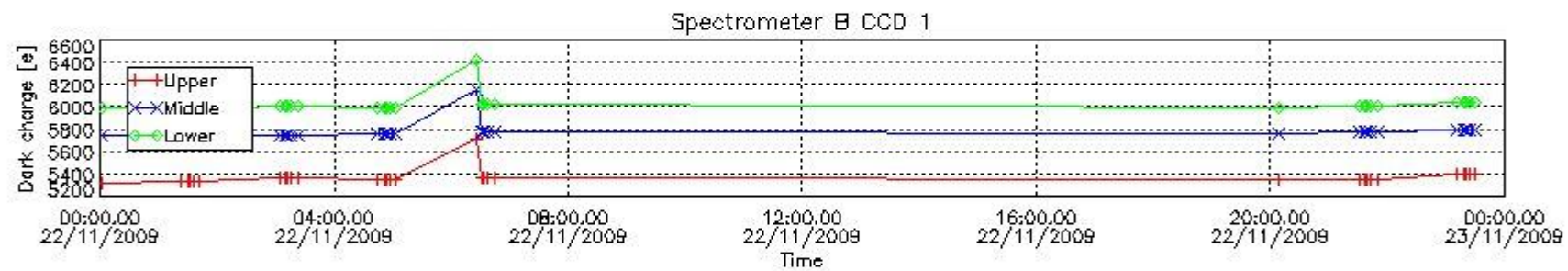
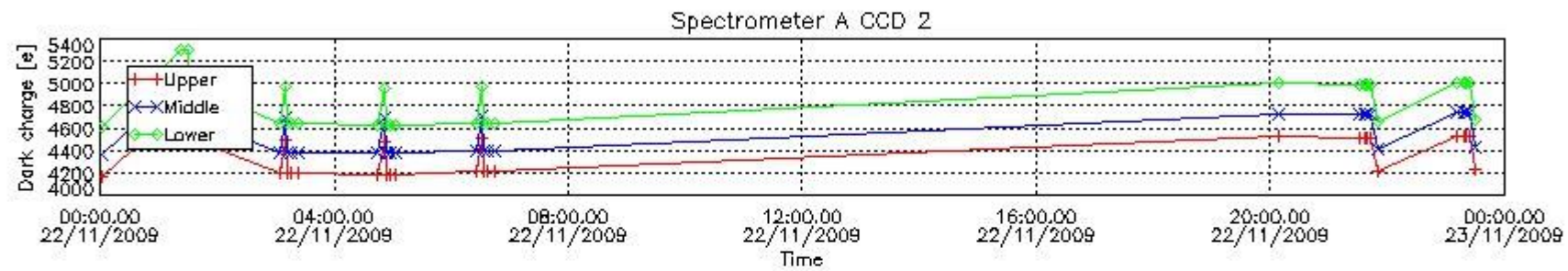
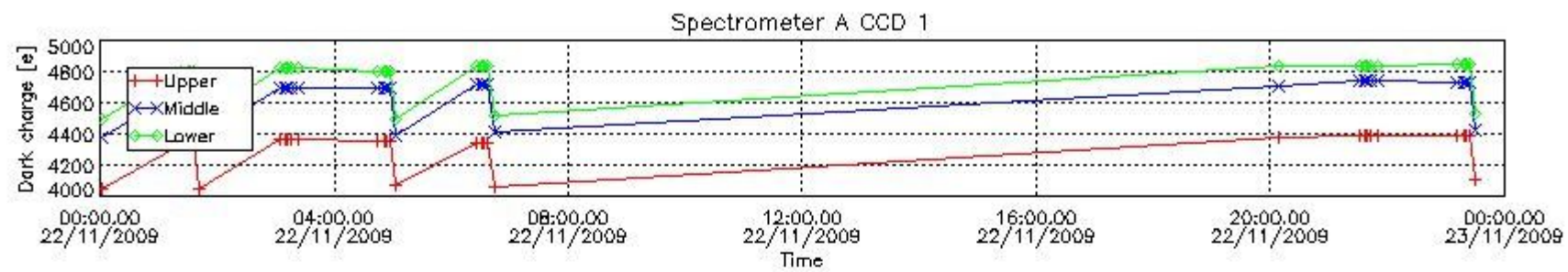
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20091122_200901_000000502084_00286_40420_4218.N1	DC map used
GOM_TRA_1PNPDE20091122_201731_000000482084_00286_40420_4219.N1	DC map used
GOM_TRA_1PNPDE20091122_202256_000000462084_00286_40420_4220.N1	DC map used
GOM_TRA_1PNPDE20091122_202919_000000412084_00286_40420_4221.N1	DC map used
GOM_TRA_1PNPDE20091122_203150_000000432084_00286_40420_4222.N1	DC map used
GOM_TRA_1PNPDE20091122_203342_000000402084_00286_40420_4223.N1	DC map used
GOM_TRA_1PNPDE20091122_203612_000000512084_00286_40420_4224.N1	DC map used
GOM_TRA_1PNPDE20091122_205421_000000402084_00286_40420_4225.N1	DC map used
GOM_TRA_1PNPDE20091122_205559_000000512084_00286_40420_4226.N1	DC map used
GOM_TRA_1PNPDE20091122_205729_000000592084_00286_40420_4227.N1	DC map used
GOM_TRA_1PNPDE20091122_210222_000000342084_00286_40420_4228.N1	DC map used

GOM_TRA_1PNPDE20091122_211057_000000432084_00286_40420_4229.N1	DC map used
GOM_TRA_1PNPDE20091122_211425_000000562084_00286_40420_4230.N1	DC map used

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



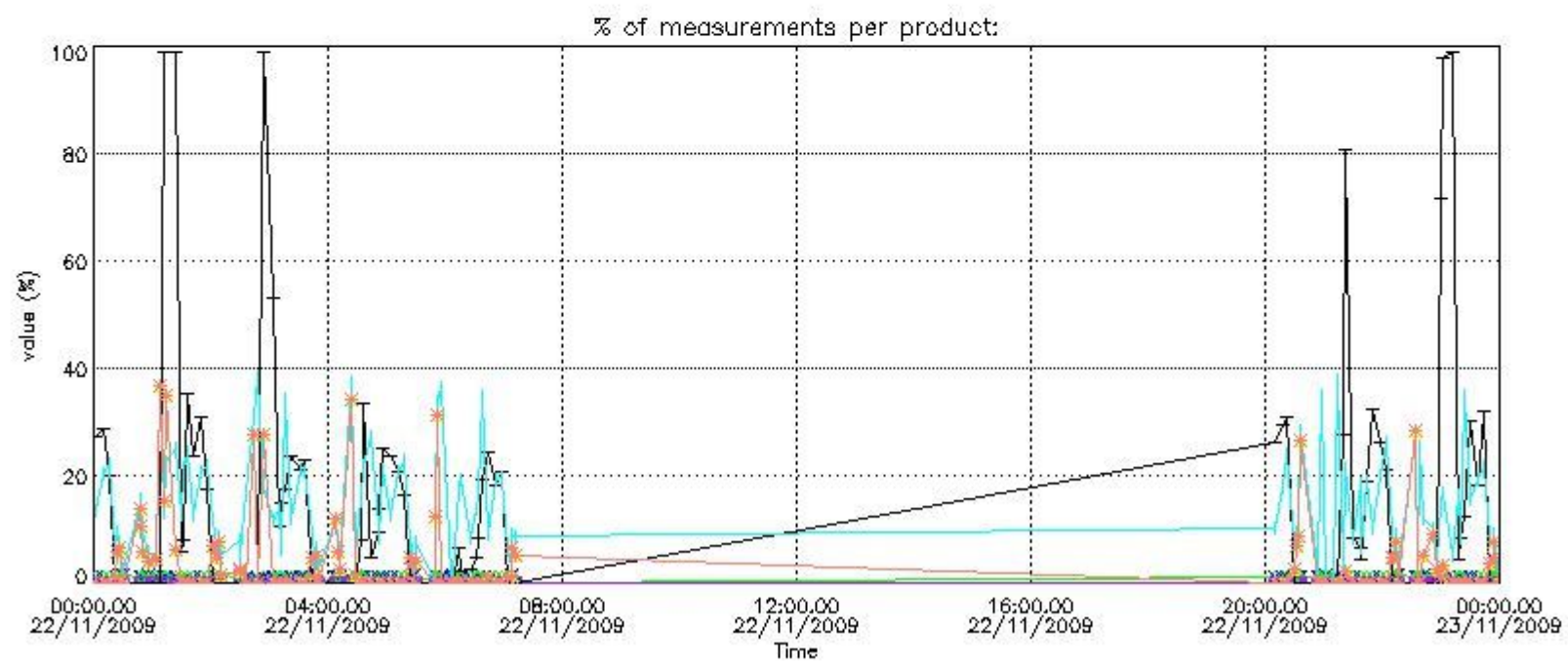
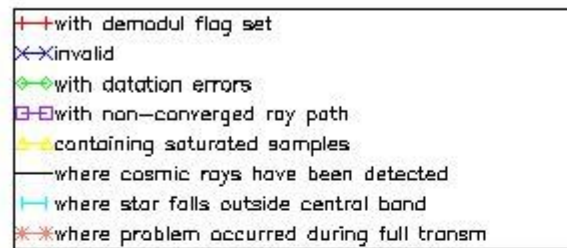
5. Demodulation flag and quality information monitoring

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.

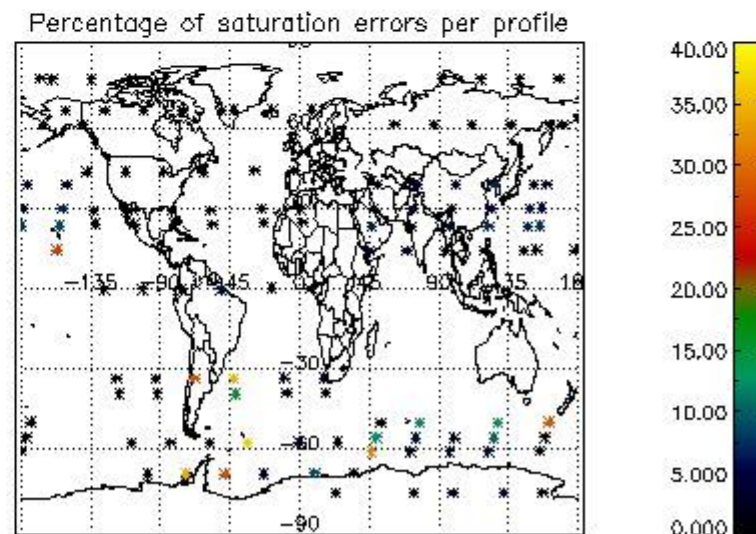
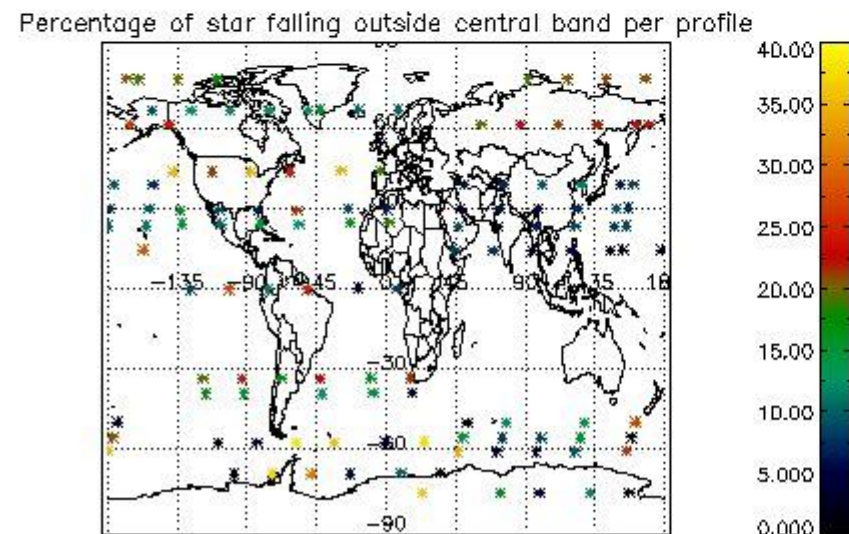
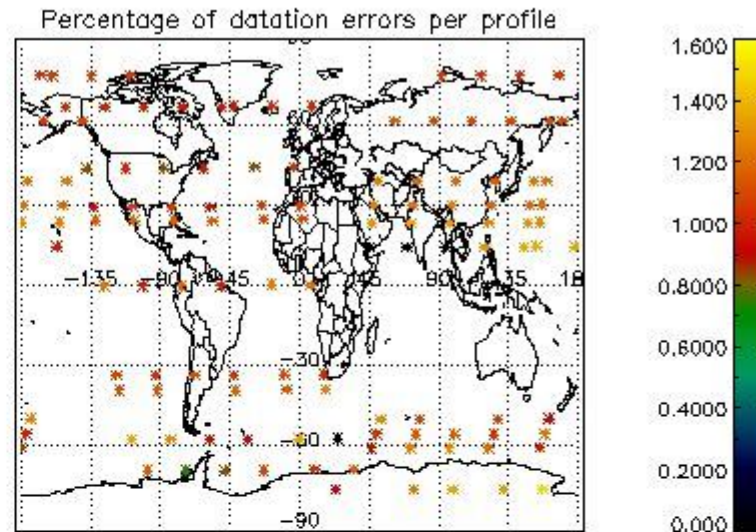
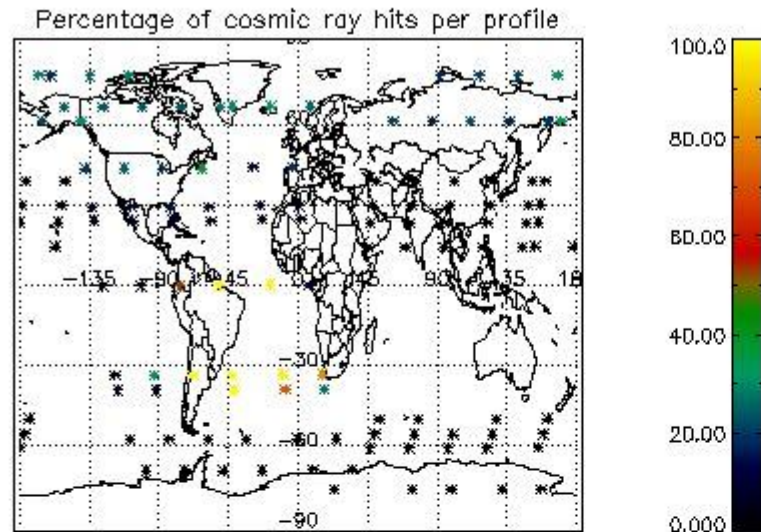
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	36.8000 %
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)



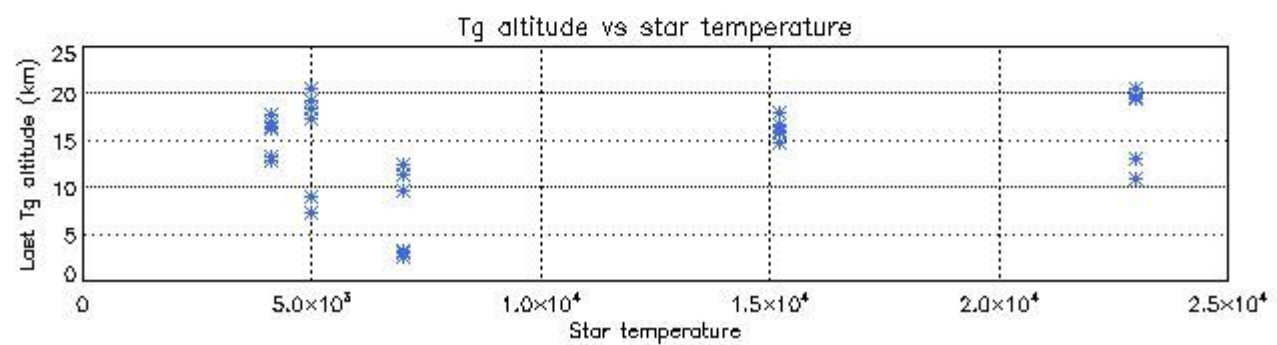
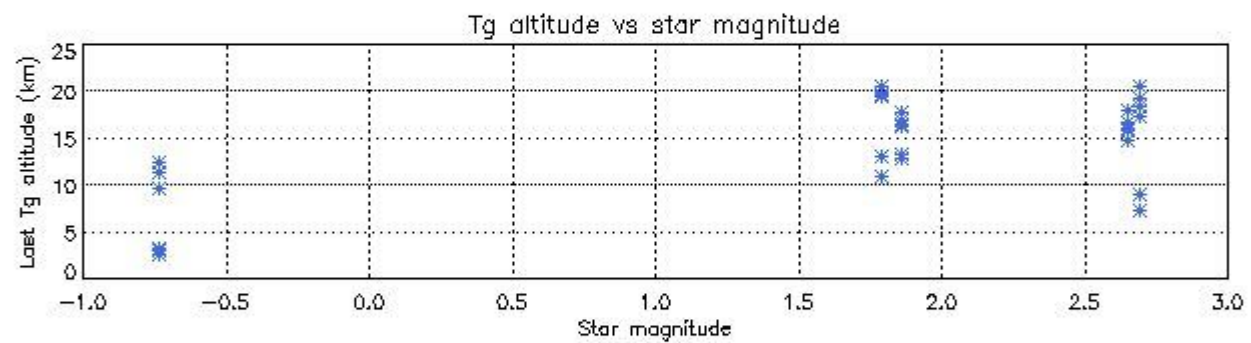
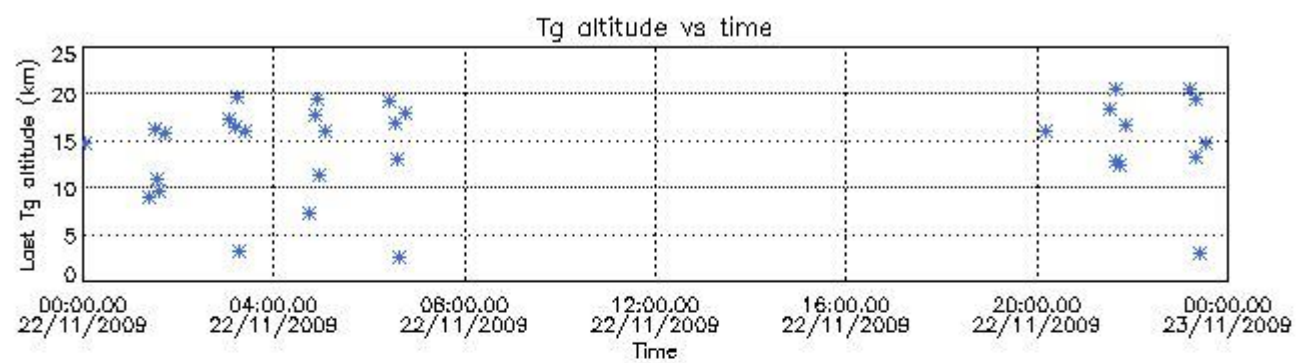
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.304	18.358	11.509
St. deviation:	5.0392	6.6443	1.5347
Maximum:	20.423	30.906	13.458
Minimum:	2.4610	3.5913	9.7696
Number of data:	32.000	66.000	6.0000

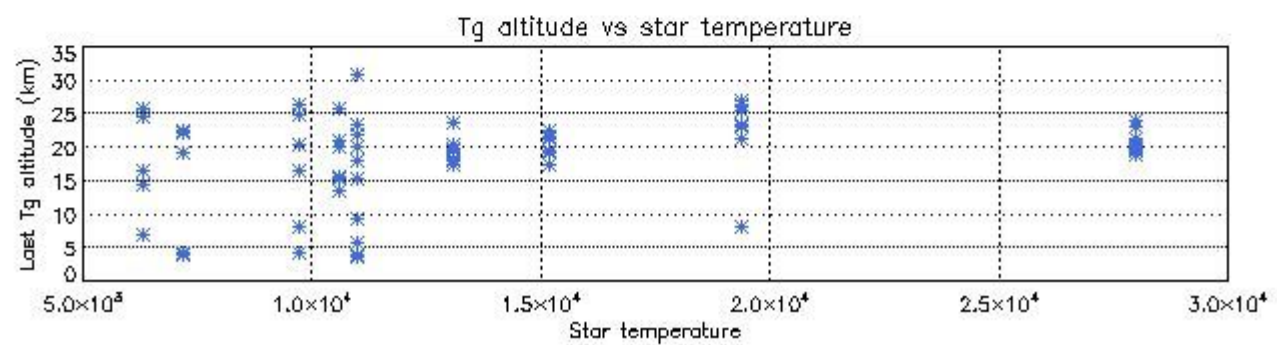
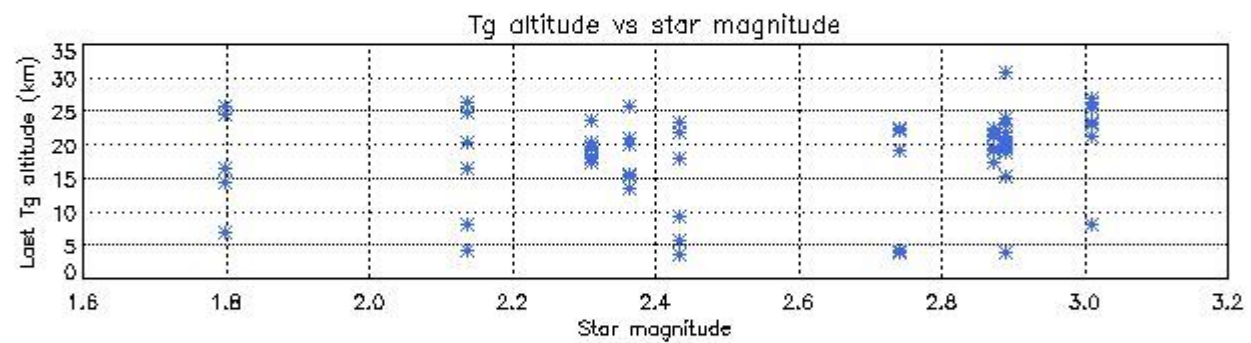
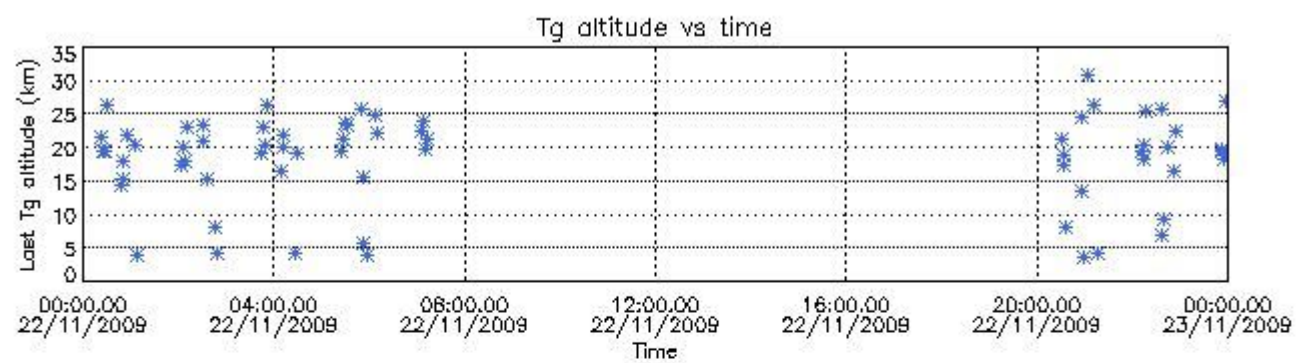
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



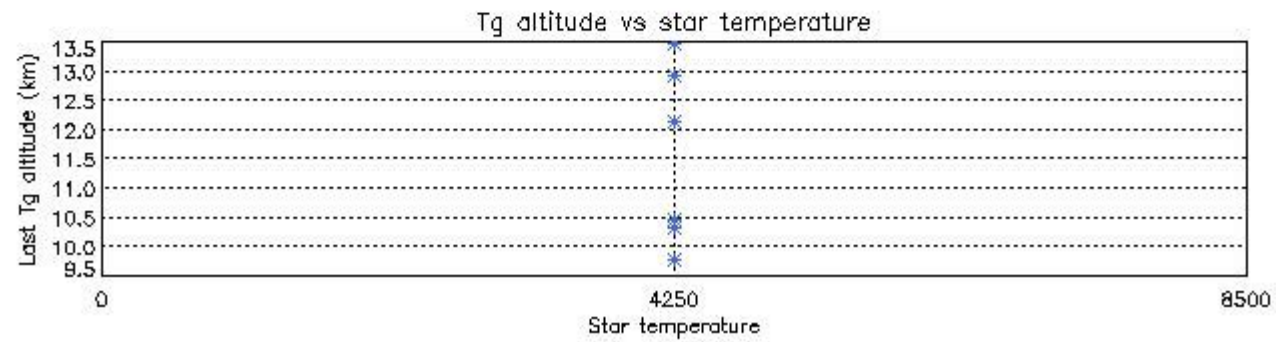
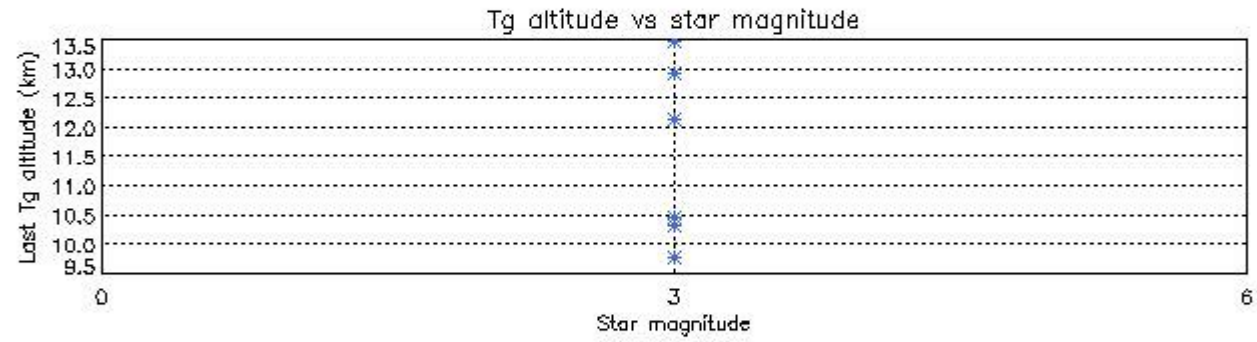
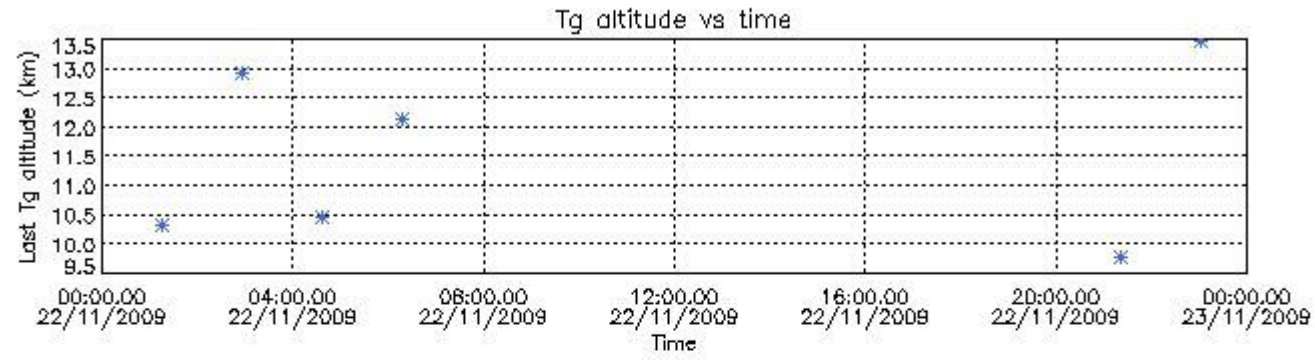
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

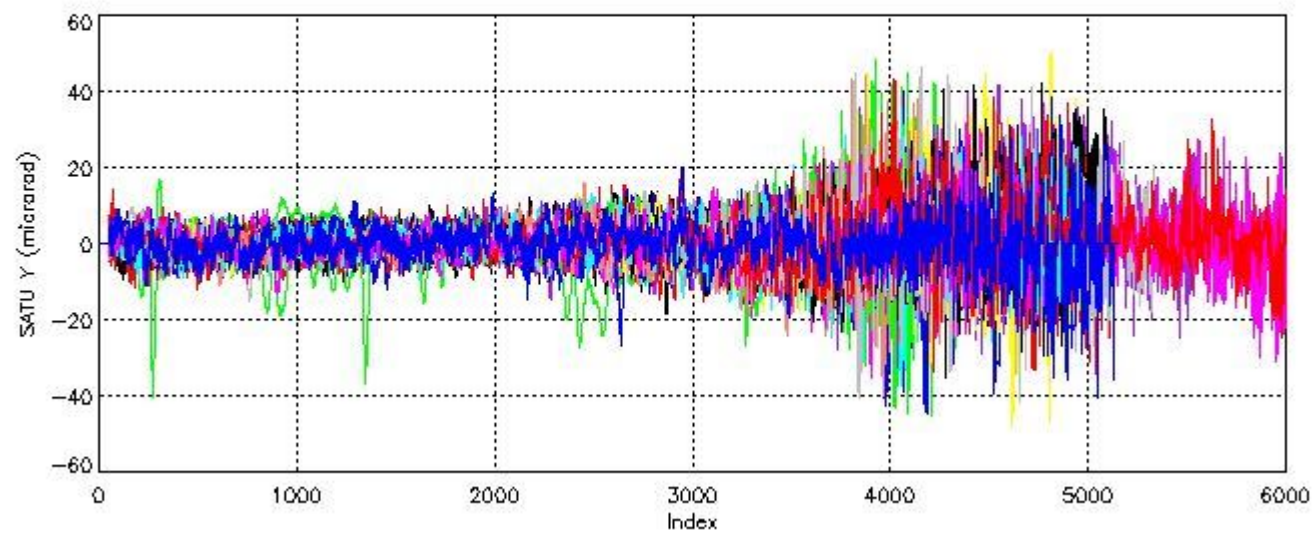
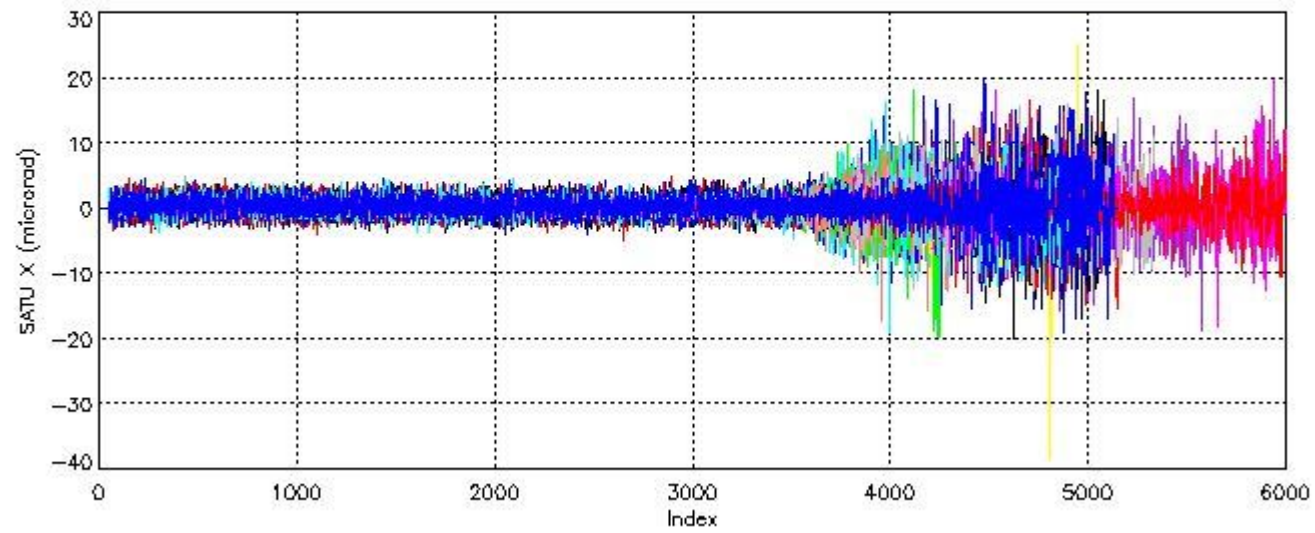


7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.24137	-0.34727	0.19570	-0.29776
St. deviation:	0.57588	2.9058	1.1705	2.9905
Maximum:	4.7000	16.700	7.1000	13.200
Minimum:	-4.0000	-40.600	-6.0000	-15.900

Number of data:	33050.	33050.	62950.	62950.
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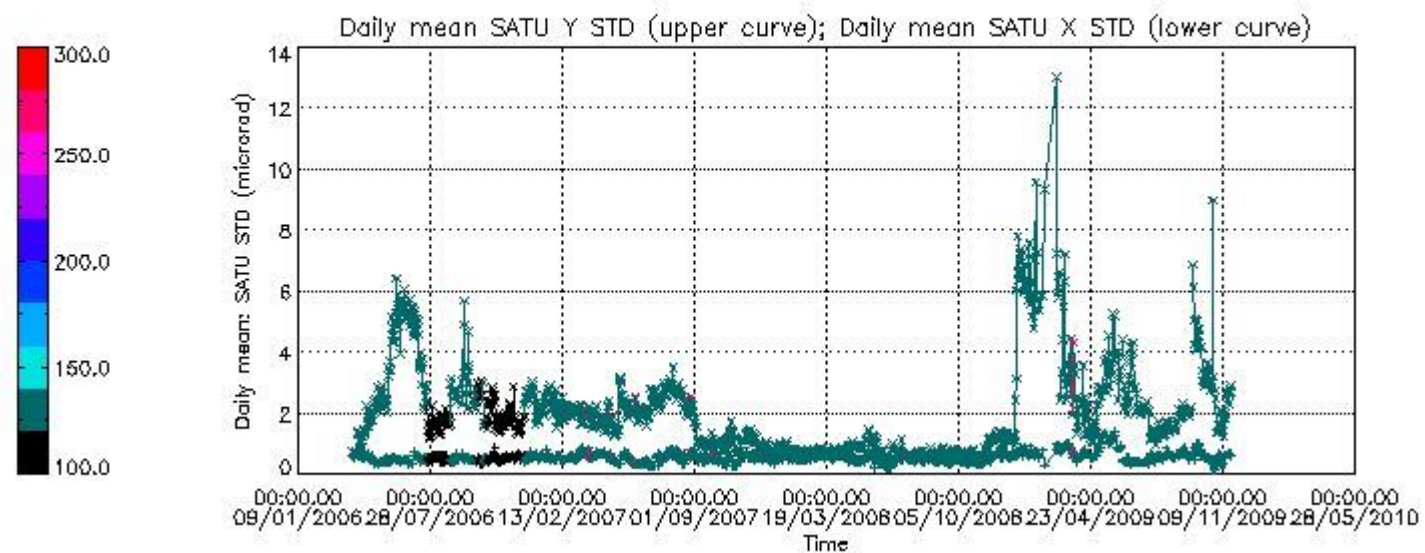
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

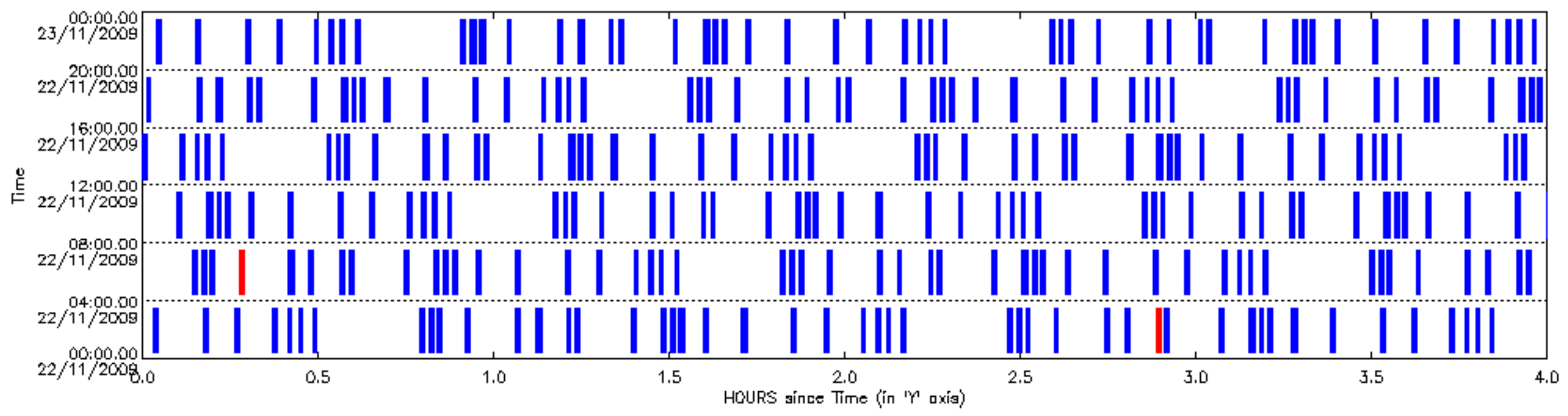
Lower curve: STD of SATU X axis

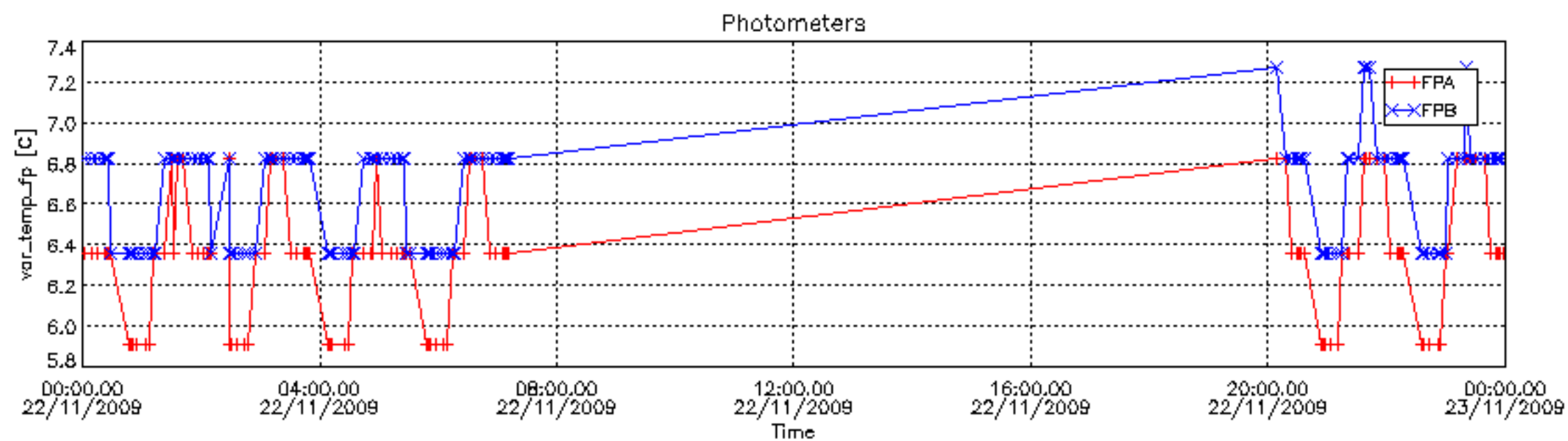
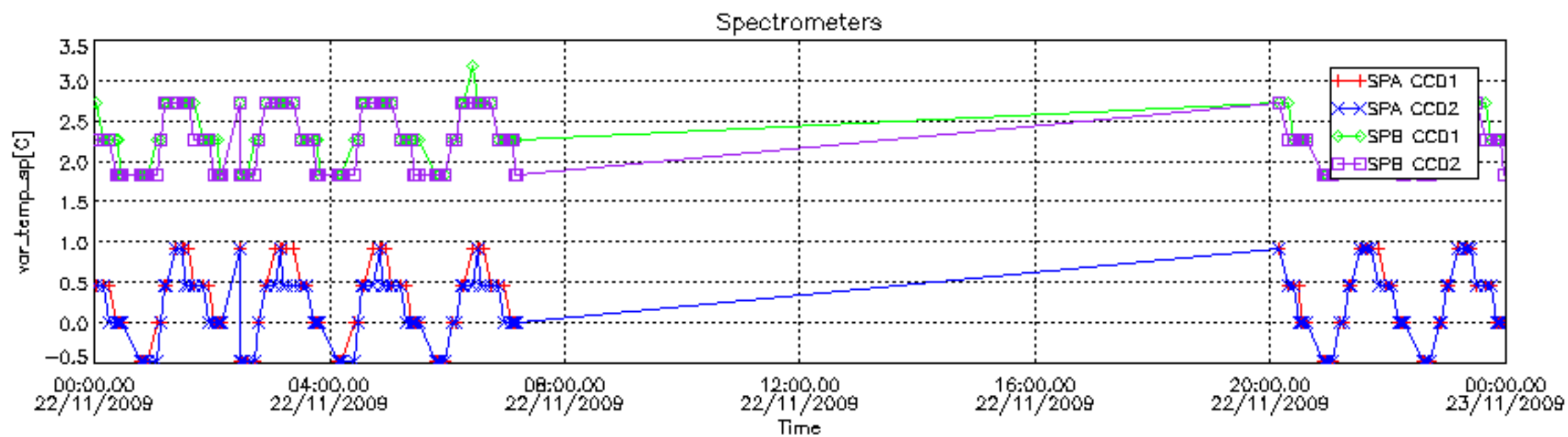


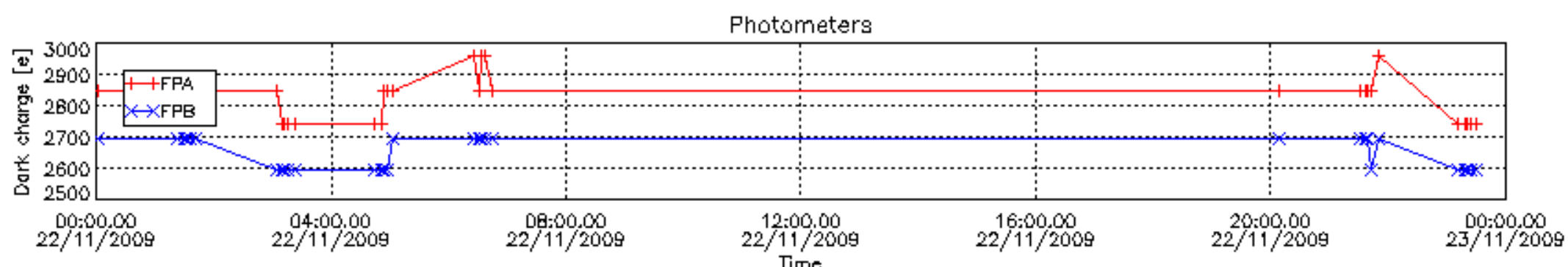
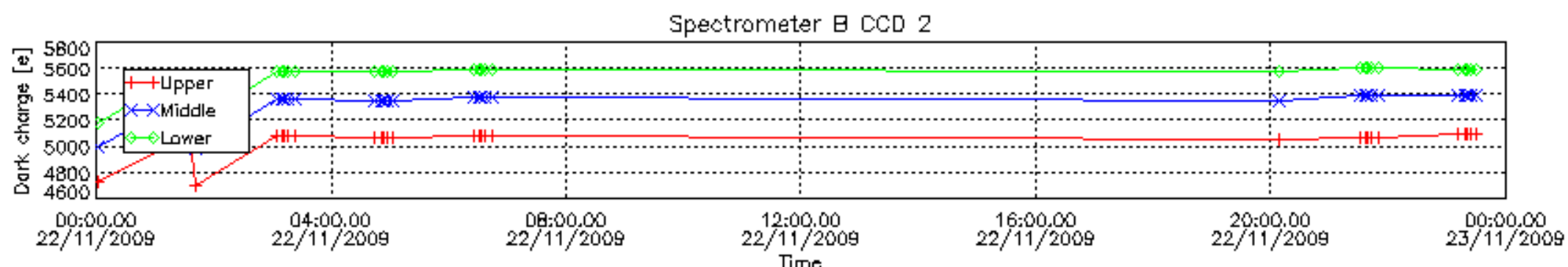
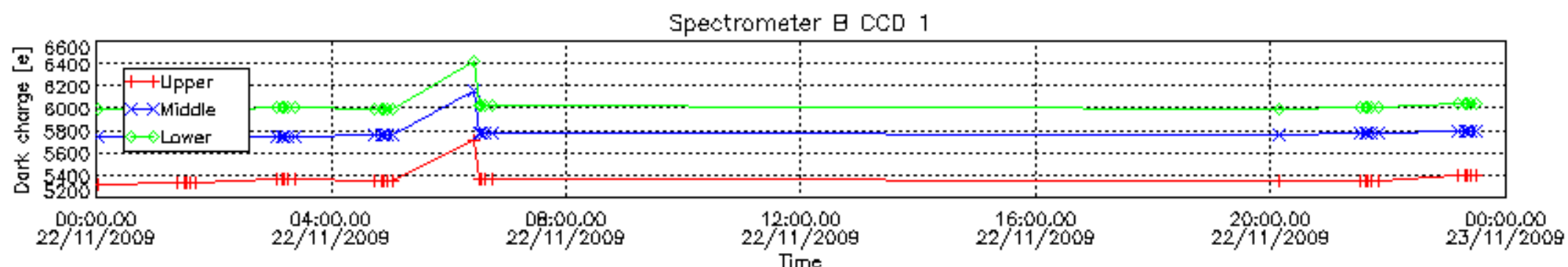
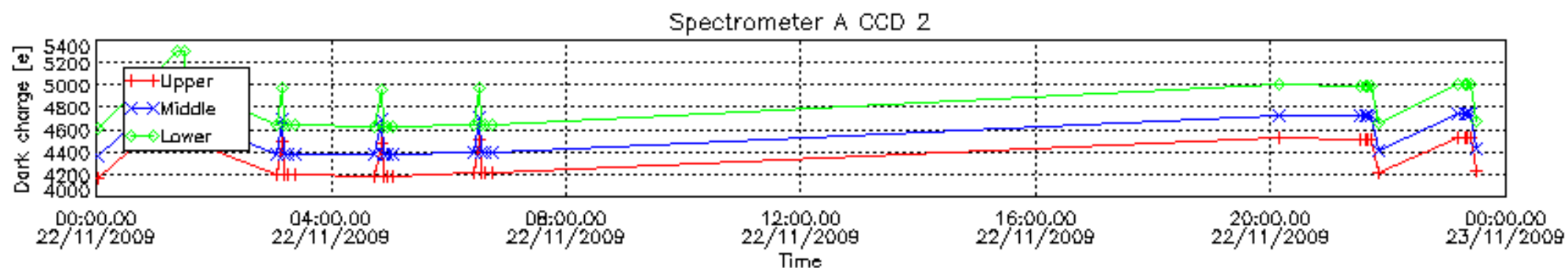
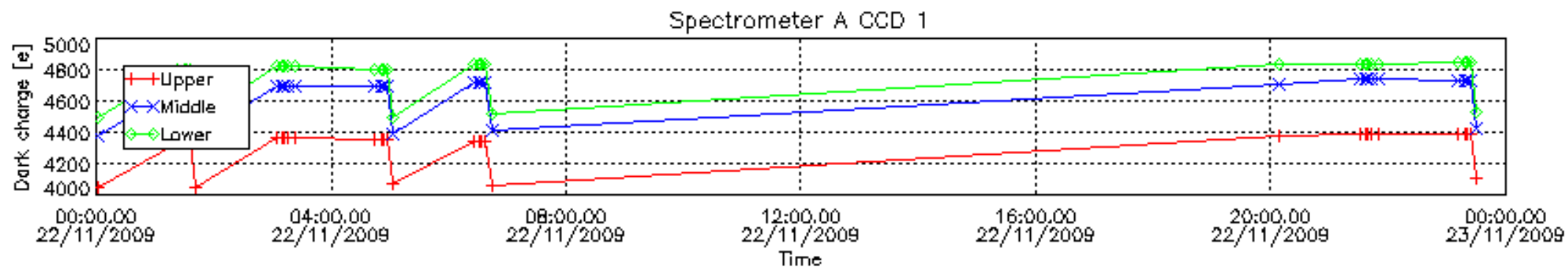
8. Auxiliary Data Files used for the production reported in section 2.4

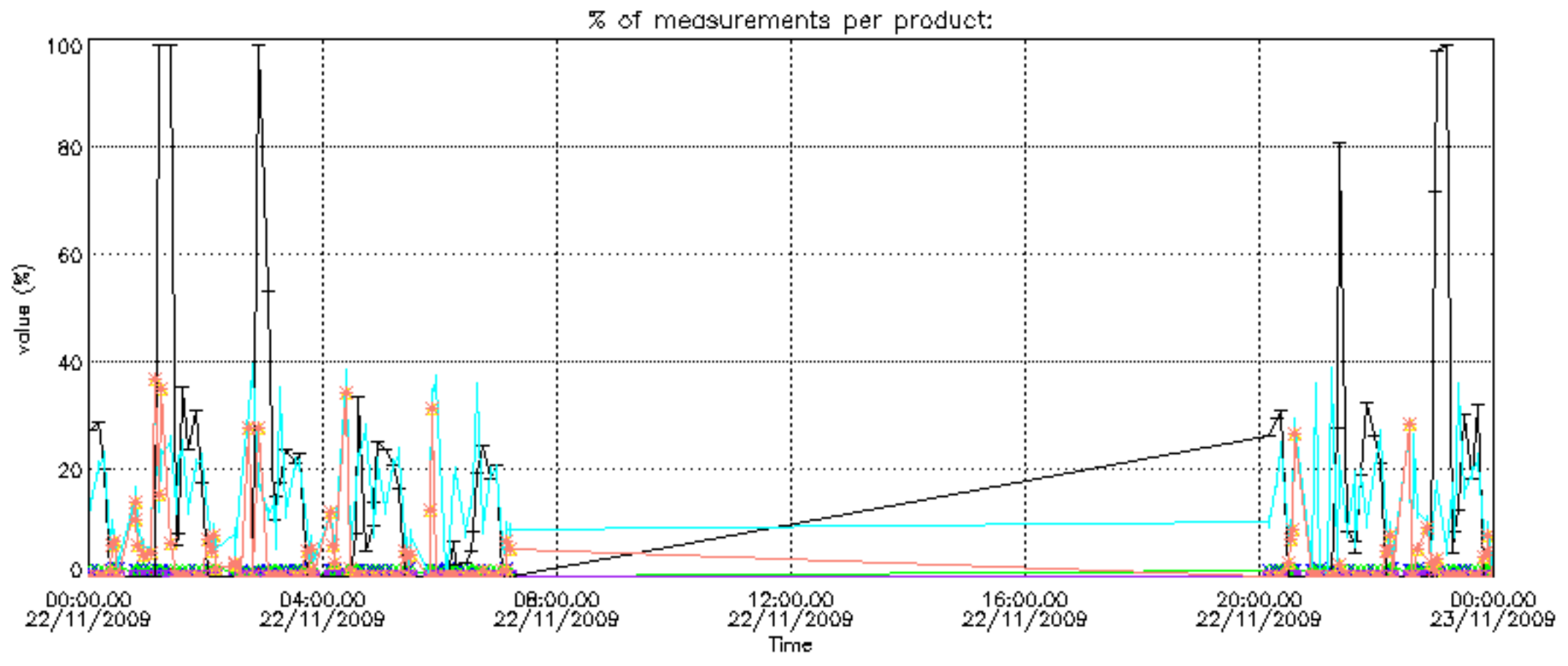
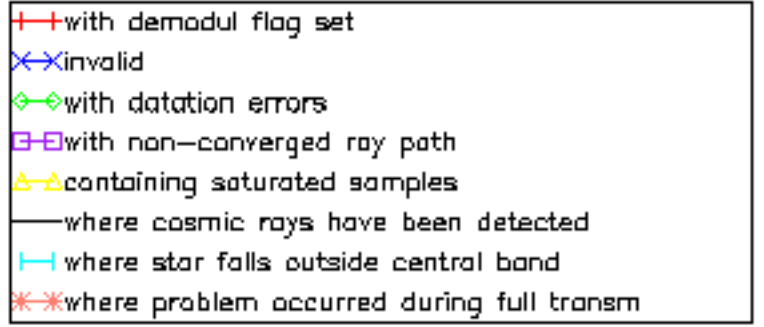
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	22-NOV-2009 00:01:44
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091116_112409_20091114_000000_20100101_000000	1	22-NOV-2009 00:01:44
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	22-NOV-2009 00:01:44
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	22-NOV-2009 00:01:44
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	22-NOV-2009 00:01:44
ECMWF_FILE	AUX_ECF_AXNECM20091121_064112_20091121_210000_20091122_090000	1	22-NOV-2009 00:01:44
ECMWF_FILE	AUX_ECF_AXNECM20091121_182112_20091122_030000_20091122_150000	45	22-NOV-2009 04:08:24
ECMWF_FILE	AUX_ECA_AXNECM20091122_062111_20091121_210000_20091122_090000	63	22-NOV-2009 05:49:00
ECMWF_FILE	AUX_ECF_AXNECM20091122_064110_20091122_150000_20091123_030000	82	22-NOV-2009 20:09:01
ECMWF_FILE	AUX_ECF_AXNECM20091122_064110_20091122_210000_20091123_090000	95	22-NOV-2009 21:19:42
OPTIONAL_ECMWF_FILE	MISSING	1	22-NOV-2009 00:01:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091121_232958_000057382084_00273_40407_9214.N1	1	22-NOV-2009 00:01:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091122_011055_000041442084_00274_40408_9215.N1	14	22-NOV-2009 01:12:24
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ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091122_010110_20091121_184104_20091201_200716	45	22-NOV-2009 04:08:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091122_200238_000038252084_00286_40420_9219.N1	82	22-NOV-2009 20:09:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091122_211142_000060572084_00286_40420_9220.N1	95	22-NOV-2009 21:19:42
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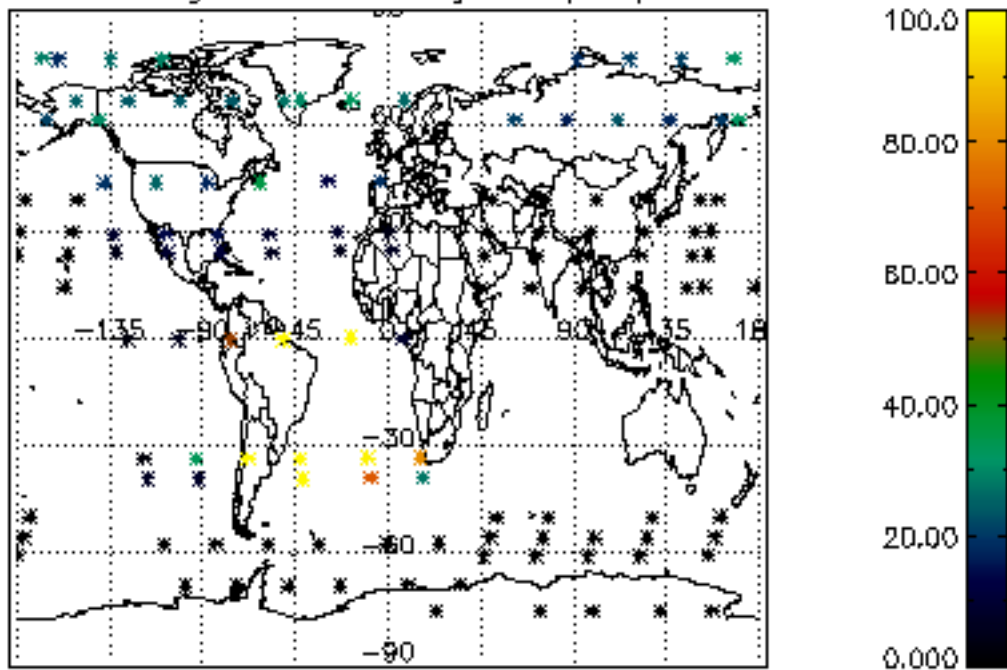




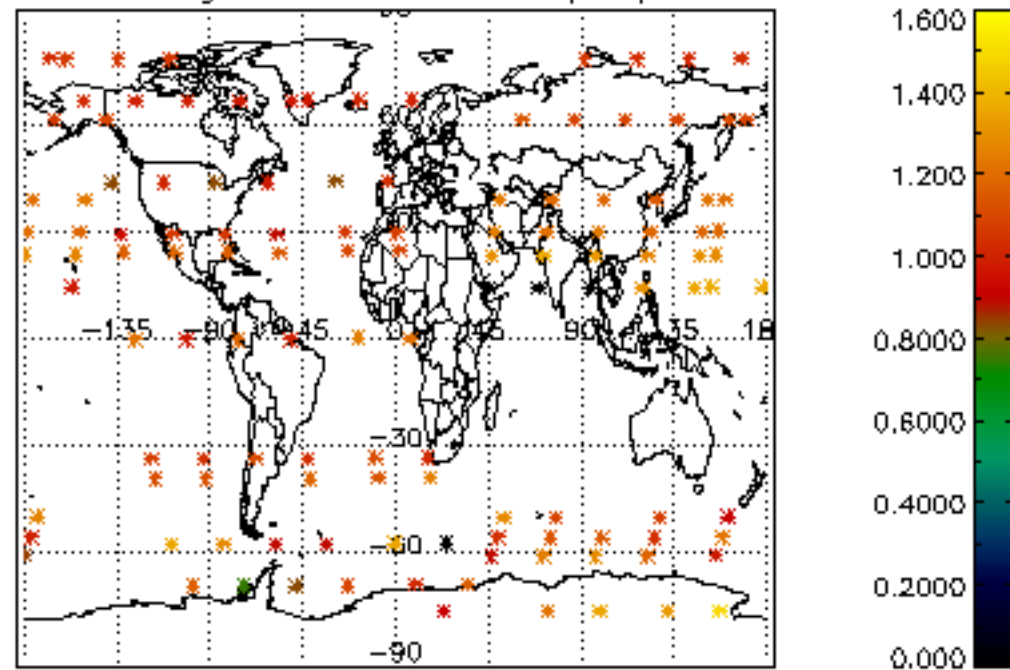




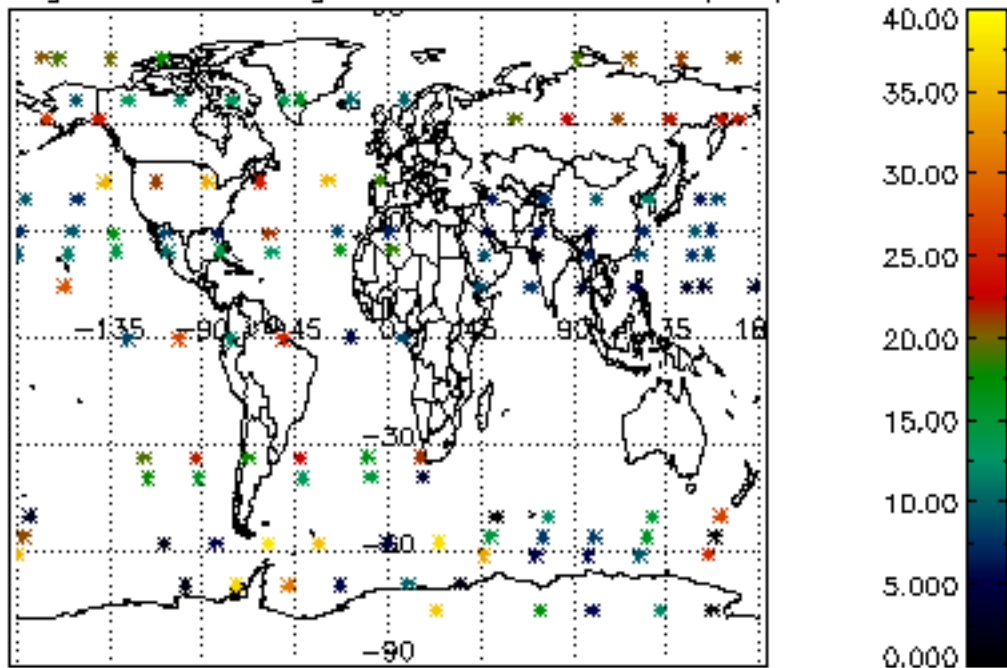
Percentage of cosmic ray hits per profile



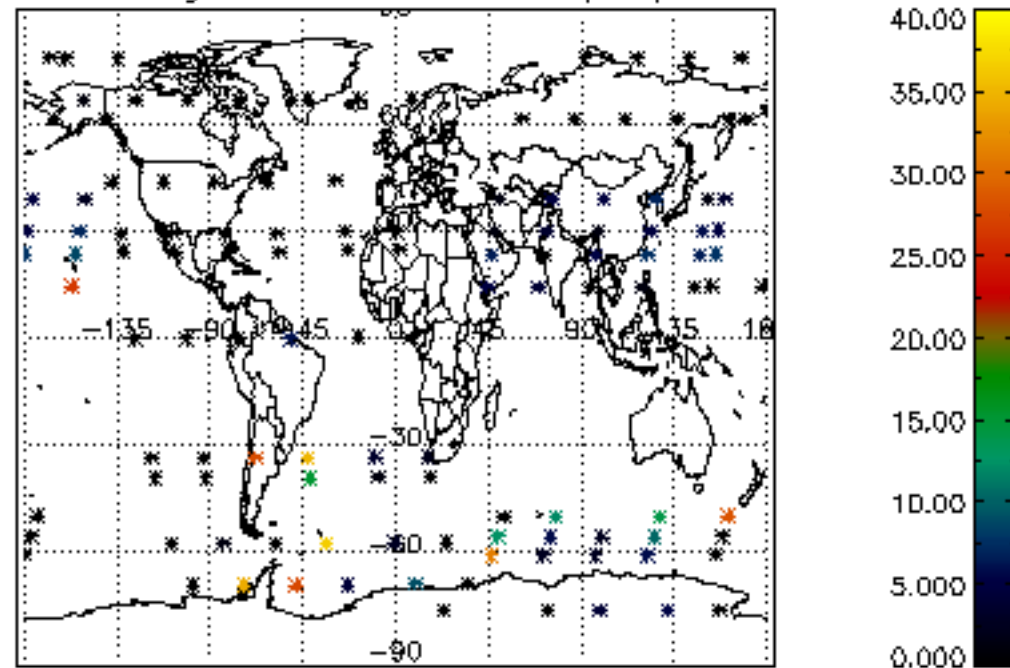
Percentage of datation errors per profile



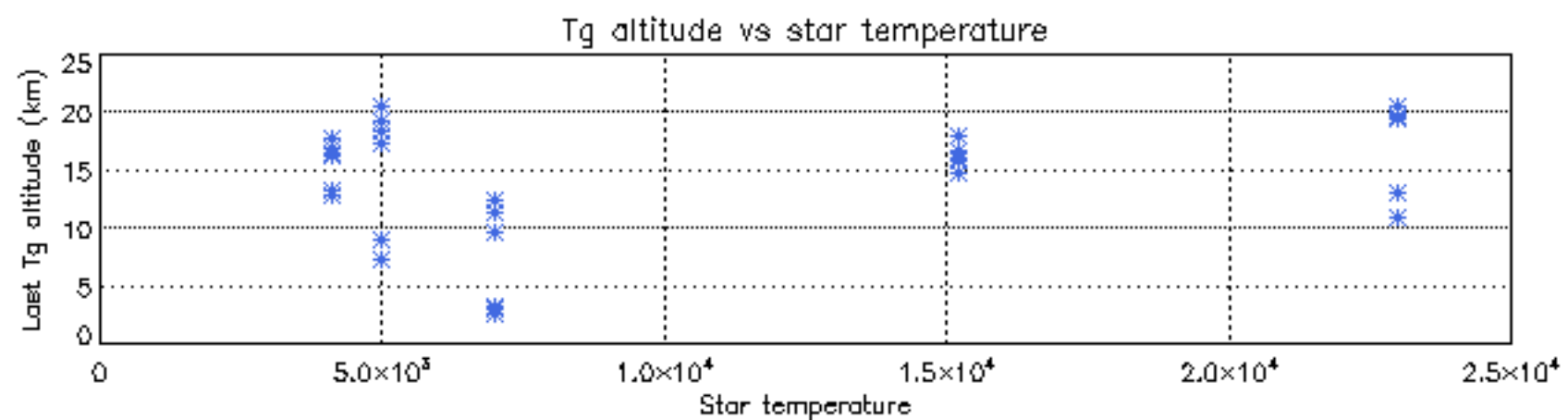
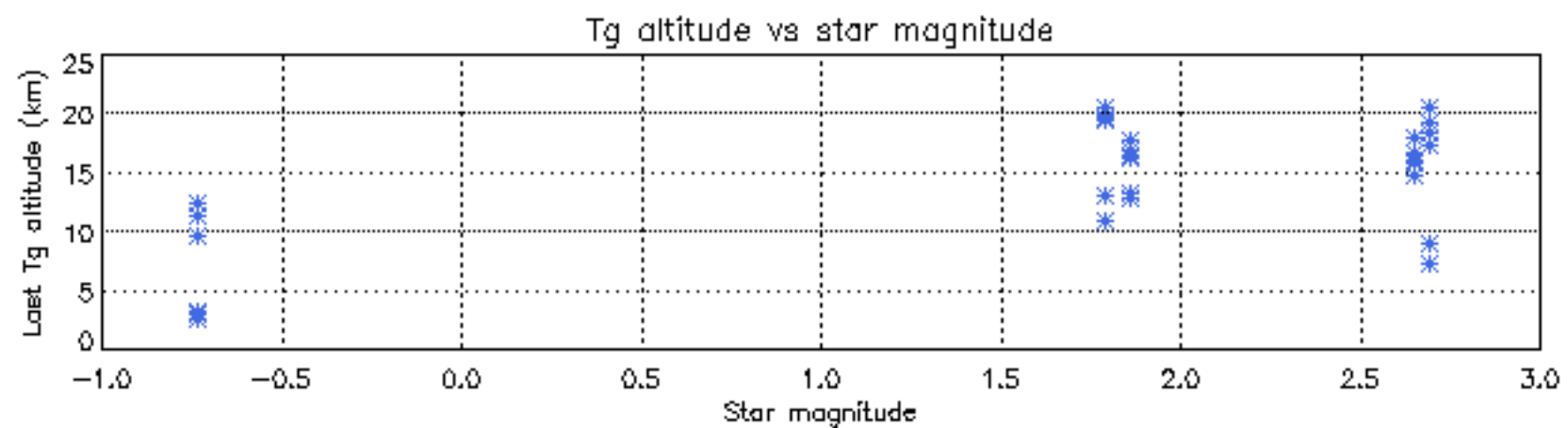
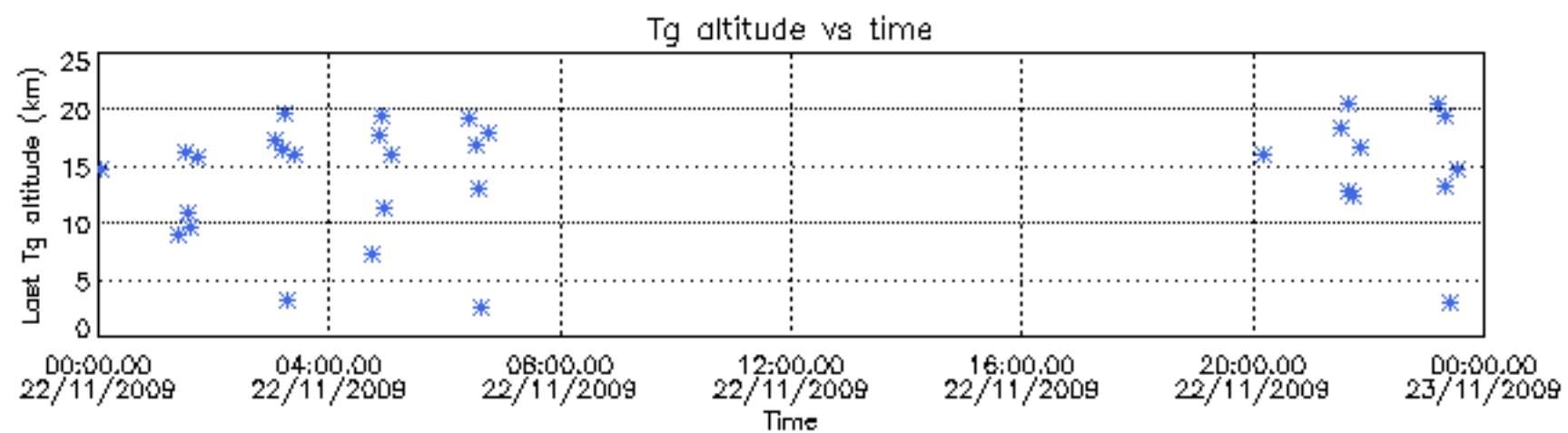
Percentage of star falling outside central band per profile



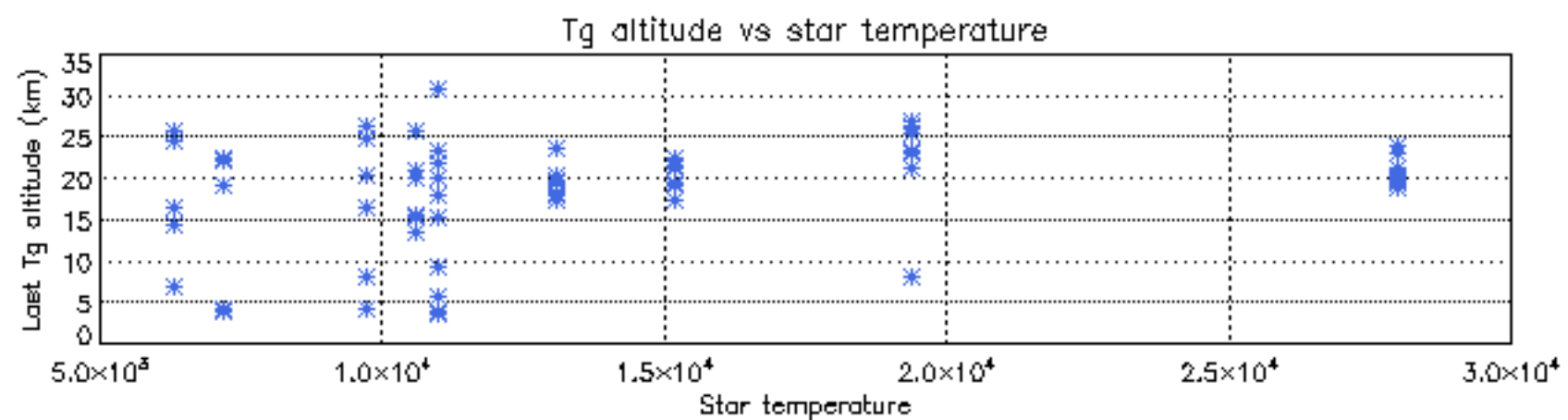
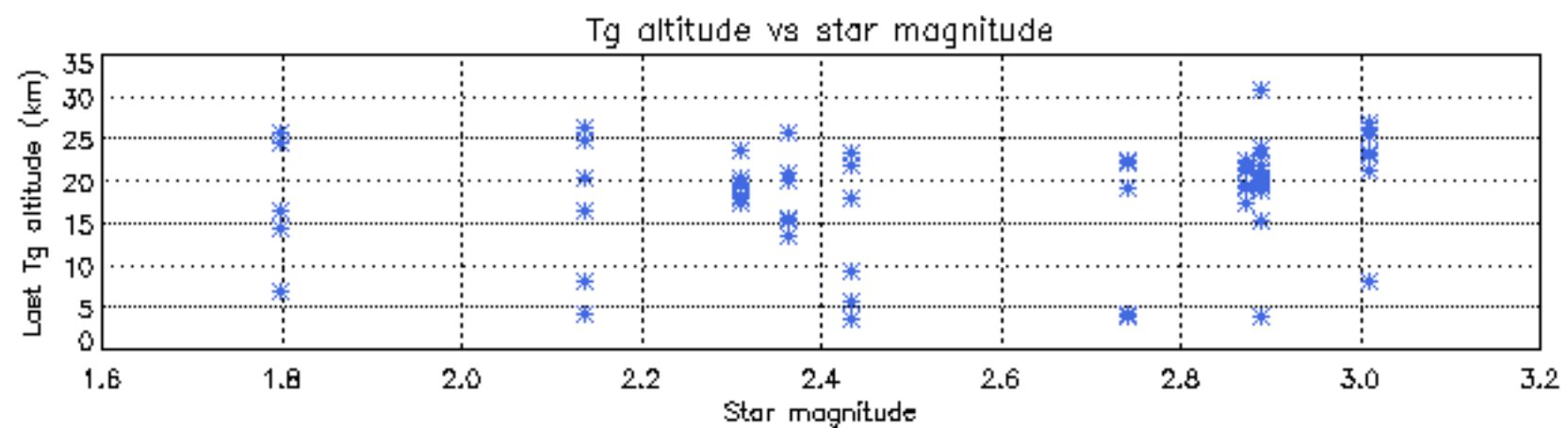
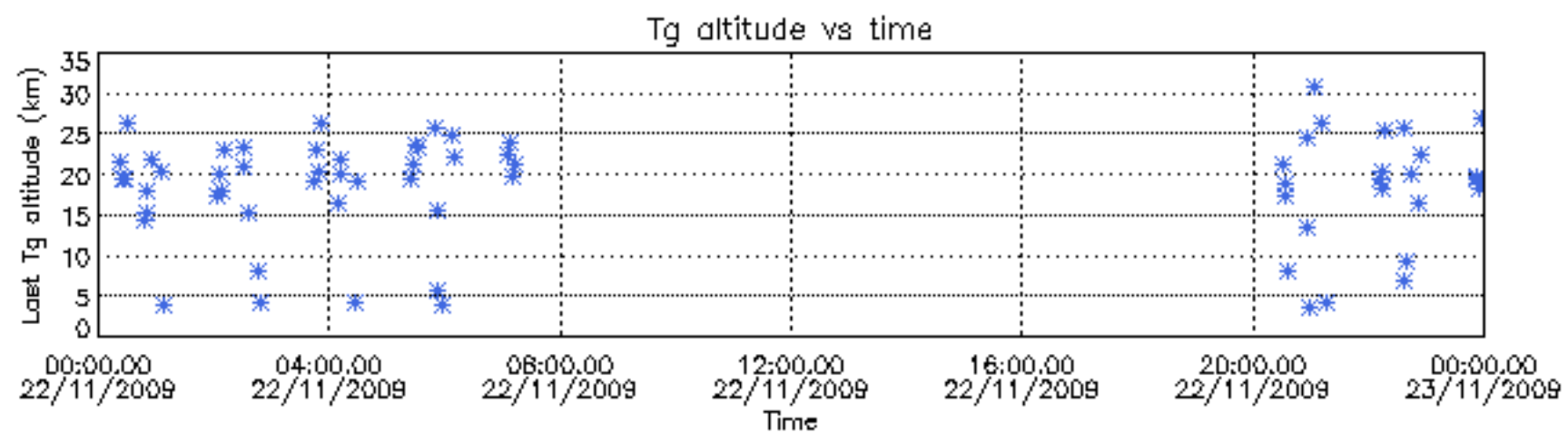
Percentage of saturation errors per profile



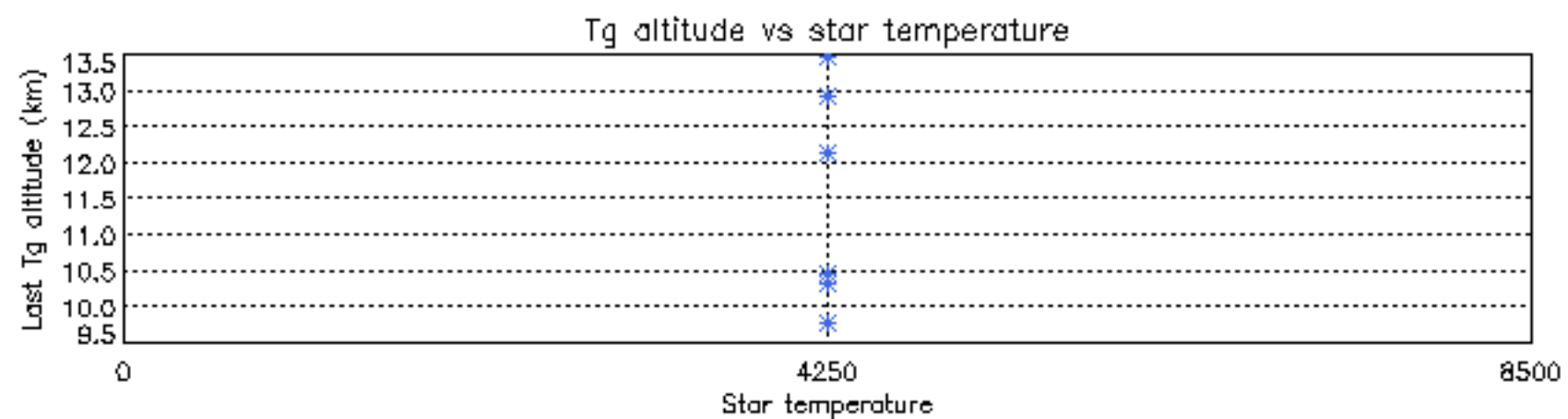
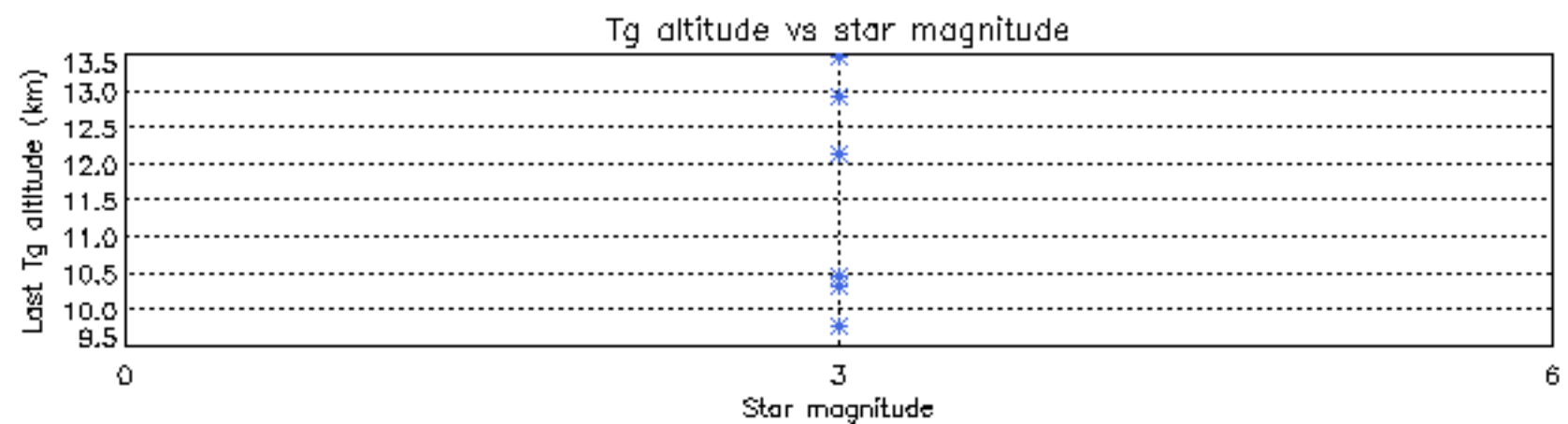
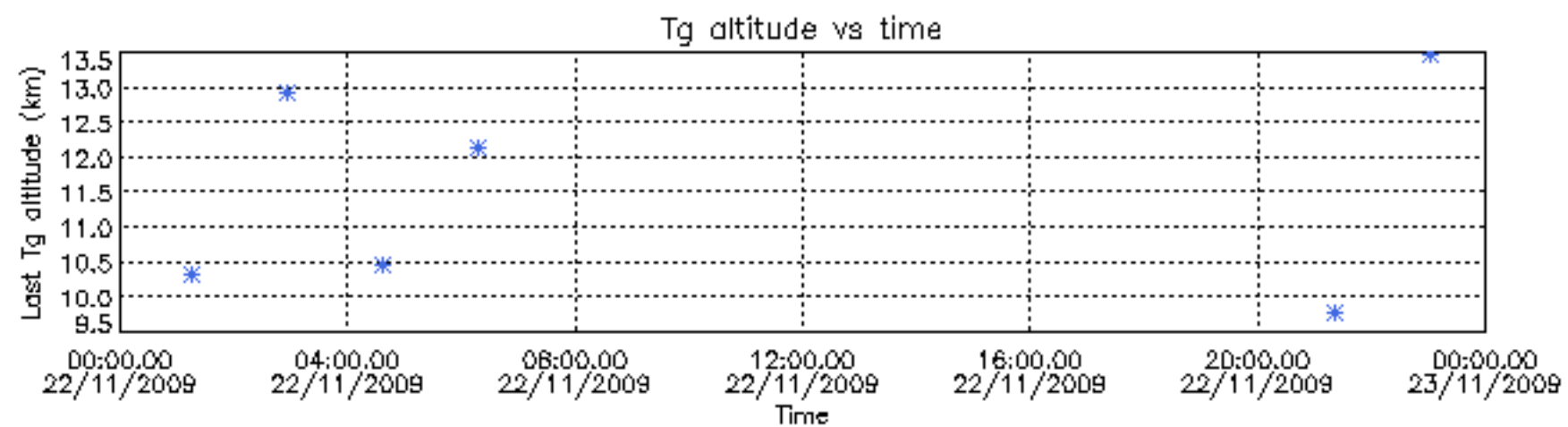
Tangent altitude at which the star is lost

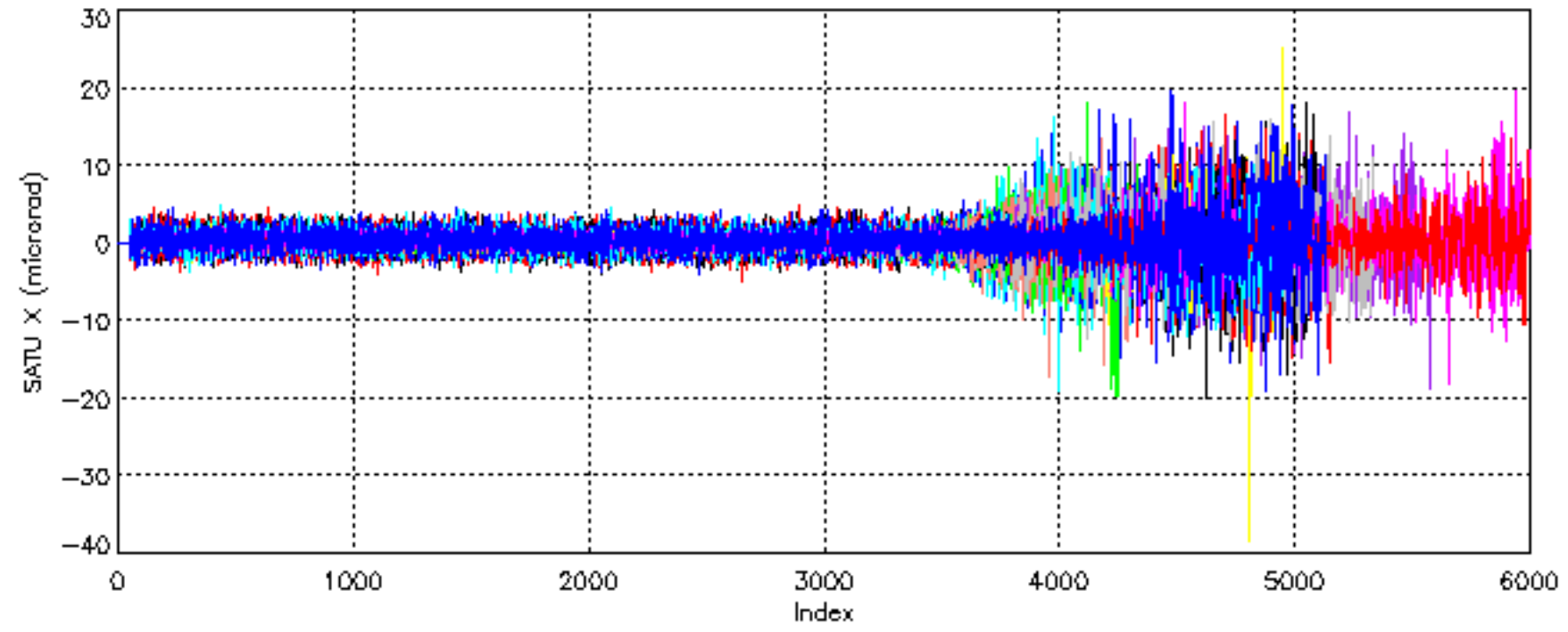


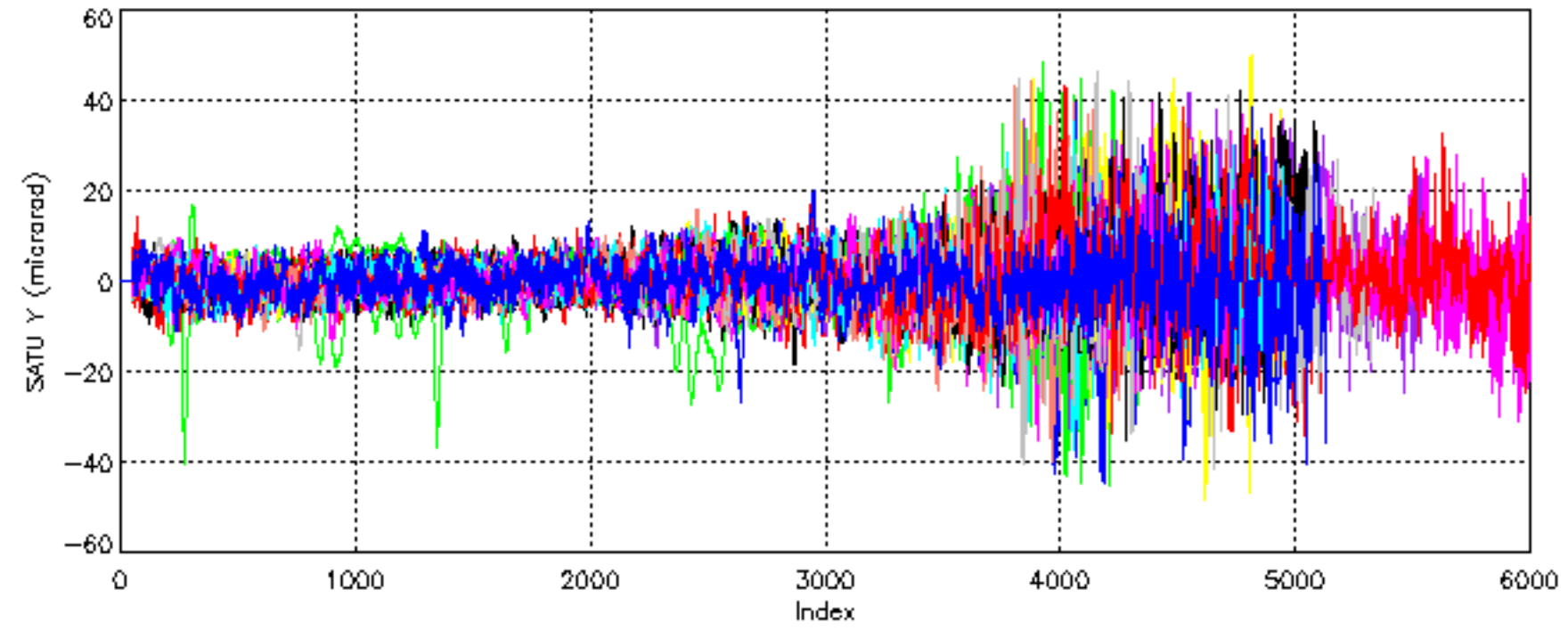
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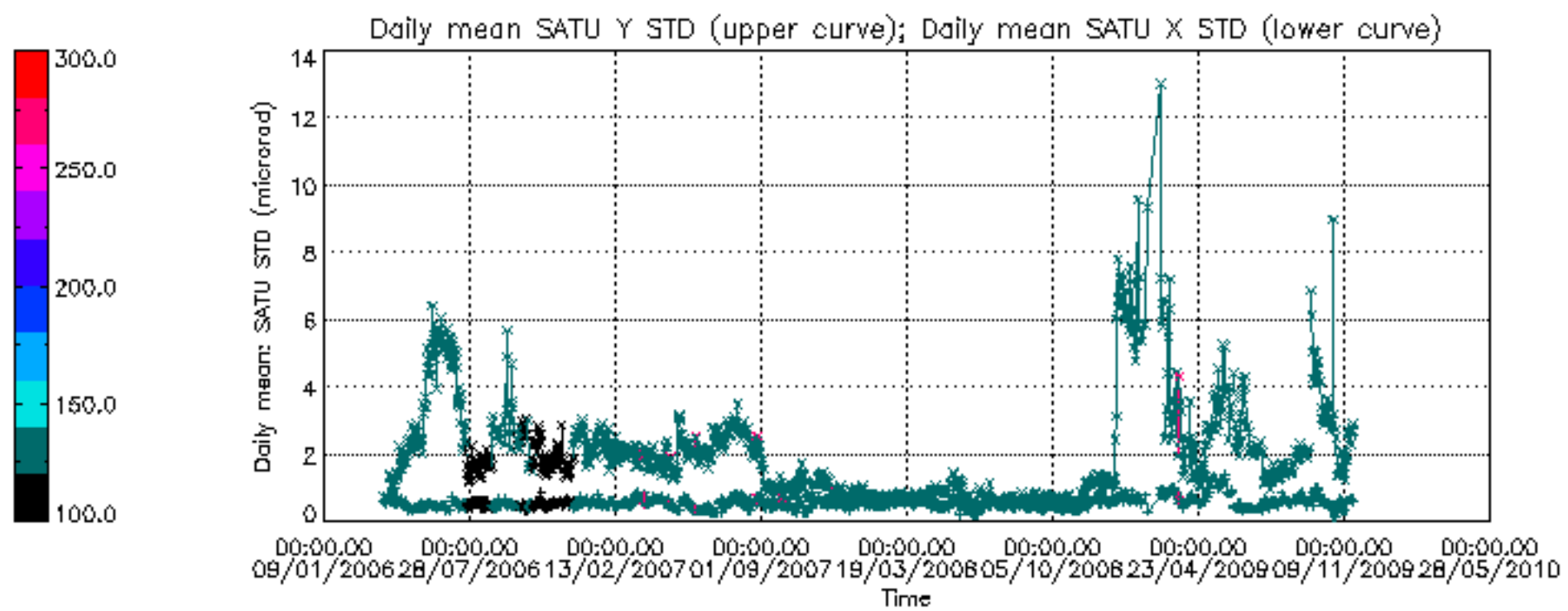


Tangent altitude at which the star is lost









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 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
 10; 2660.8; 01-NOV-2009 01:27:35; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;40108
 11; 2742.1; 01-NOV-2009 01:28:57; Bright; 46.0; 79; 26Bet Per ; 2.31; 13100;occ; 92; 0;40108
 12; 2934.3; 01-NOV-2009 01:32:09; Bright; 42.0; 160; 23Gam Per ; 2.93; 4700;occ; 84; 0;40108
 13; 3911.9; 01-NOV-2009 01:48:27; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;40108
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 15; 4229.5; 01-NOV-2009 01:53:44; Bright; 38.5; 174; 52Psi UMa ; 3.00; 4400;occ; 77; 0;40108
 16; 4709.7; 01-NOV-2009 02:01:44; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;40108
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 3; 198.7; 01-NOV-2009 02:27:09; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;40109
 4; 349.0; 01-NOV-2009 02:29:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40109
 5; 525.4; 01-NOV-2009 02:32:36; Dark ; 48.0; 2; Alp Car ;-0.74; 7000;occ; 96; 0;40109
 6; 910.1; 01-NOV-2009 02:39:01; Dark ; 29.0; 108; Alp Col ; 2.65; 15200;occ; 58; 0;40109
 7; 2010.1; 01-NOV-2009 02:57:21; Dark ; 56.5; 94; 92Alp Cet ; 2.53; 3100;occ; 113; 0;40109
 8; 2273.2; 01-NOV-2009 03:01:44; Bright; 38.5; 105; 6Bet Ari ; 2.64; 8900;occ; 77; 0;40109
 9; 2538.6; 01-NOV-2009 03:06:09; Bright; 39.0; 173; 4Bet Tri ; 3.00; 8900;occ; 78; 0;40109
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 11; 2741.6; 01-NOV-2009 03:09:32; Bright; 44.5; 79; 26Bet Per ; 2.31; 13100;occ; 89; 0;40109
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 4; -1325.9; 01-NOV-2009 03:42:21; Bright; 46.0; 166; 17Eps Leo ; 2.98; 6000;occ; 92; 0;40109
 5; -1096.7; 01-NOV-2009 03:46:10; Bright; 53.0; 22; 32Alp Leo ; 1.36; 15200;occ; 106; 0;40109
 6; -531.1; 01-NOV-2009 03:55:35; Dark ; 66.0; 48; 30Alp Hya ; 1.98; 4100;occ; 132; 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
 9; 349.9; 01-NOV-2009 04:10:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40110
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 3; -1806.2; 01-NOV-2009 05:14:56; Bright; 56.0; 174; 52Psi UMa ; 3.00; 4400;occ; 112; 0;40110
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13; 3907.9; 04-NOV-2009 01:54:07; Bright; 38.5; 36; 50Alp UMa ; 1.80; 6300;occ; 77; 0;40151
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 13; 4973.4; 04-NOV-2009 15:36:40; Dark ; 64.5; 22; 32Alp Leo ; 1.36; 15200;occ; 129; 0;40159
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 2; 1994.5; 05-NOV-2009 10:54:12; Dark ; 53.0; 94; 92Alp Cet ; 2.53; 3100;occ; 106; 0;40171
 3; 2265.6; 05-NOV-2009 10:58:44; Bright; 38.5; 105; 6Bet Ari ; 2.64; 8900;occ; 77; 0;40171
 4; 2522.4; 05-NOV-2009 11:03:00; Bright; 37.0; 173; 4Bet Tri ; 3.00; 8900;occ; 74; 0;40171
 5; 2645.5; 05-NOV-2009 11:05:03; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;40171
 6; 2816.5; 05-NOV-2009 11:07:54; Bright; 48.5; 149; 45Eps Per ; 2.89; 30000;occ; 97; 0;40171
 7; 3905.3; 05-NOV-2009 11:26:03; Bright; 42.0; 36; 50Alp UMA ; 1.80; 6300;occ; 84; 0;40171
 8; 4002.6; 05-NOV-2009 11:27:41; Bright; 37.5; 82; 48Bet UMA ; 2.37; 10600;occ; 75; 0;40171

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 10; 4690.5; 05-NOV-2009 11:39:08; Bright; 40.5; 96; 68Del Leo ; 2.56; 9300;occ; 81; 0;40171
 11; 4776.1; 05-NOV-2009 11:40:34; Bright; 55.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 111; 0;40171
 12; 4982.4; 05-NOV-2009 11:44:00; Dark ; 61.5; 22; 32Alp Leo ; 1.36; 15200;occ; 123; 0;40171
 13; 6073.7; 05-NOV-2009 12:02:12; Dark ; 50.5; 65; Lam Vel ; 2.20; 4400;occ; 101; 0;40171
 14; 6215.7; 05-NOV-2009 12:04:34; Dark ; 45.0; 46; Del Vel ; 1.95; 10600;occ; 90; 0;40171
 15; 6313.0; 05-NOV-2009 12:06:11; Dark ; 50.0; 70; Zet Pup ; 2.25; 39000;occ; 100; 0;40171
 16; 6443.8; 05-NOV-2009 12:08:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40171
 17; 6609.0; 05-NOV-2009 12:11:07; Dark ; 47.0; 2; Alp Car ; -0.74; 7000;occ; 94; 0;40171
 18; 7005.0; 05-NOV-2009 12:17:43; Dark ; 58.0; 108; Alp Col ; 2.65; 15200;occ; 116; 0;40171

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 3; 2265.7; 05-NOV-2009 12:39:19; Bright; 38.0; 105; 6Bet Ari ; 2.64; 8900;occ; 76; 0;40172
 4; 2522.2; 05-NOV-2009 12:43:36; Bright; 38.5; 173; 4Bet Tri ; 3.00; 8900;occ; 77; 0;40172
 5; 2645.5; 05-NOV-2009 12:45:39; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;40172
 6; 2815.5; 05-NOV-2009 12:48:29; Bright; 50.0; 149; 45Eps Per ; 2.89; 30000;occ; 100; 0;40172
 7; 3905.2; 05-NOV-2009 13:06:39; Bright; 39.0; 36; 50Alp UMa ; 1.80; 6300;occ; 78; 0;40172
 8; 4002.5; 05-NOV-2009 13:08:16; Bright; 40.0; 82; 48Bet UMa ; 2.37; 10600;occ; 80; 0;40172
 9; 4229.6; 05-NOV-2009 13:12:03; Bright; 41.0; 174; 52Psi UMa ; 3.00; 4400;occ; 82; 0;40172
 10; 4690.7; 05-NOV-2009 13:19:45; Bright; 60.0; 96; 68Del Leo ; 2.56; 9300;occ; 120; 0;40172
 11; 4983.1; 05-NOV-2009 13:24:37; Dark ; 64.0; 22; 32Alp Leo ; 1.36; 15200;occ; 128; 0;40172
 12; 6074.7; 05-NOV-2009 13:42:49; Dark ; 62.0; 65; Lam Vel ; 2.20; 4400;occ; 124; 0;40172
 13; 6216.4; 05-NOV-2009 13:45:10; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;40172
 14; 6314.4; 05-NOV-2009 13:46:48; Dark ; 52.5; 70; Zet Pup ; 2.25; 39000;occ; 105; 0;40172
 15; 6444.8; 05-NOV-2009 13:48:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40172
 16; 6610.1; 05-NOV-2009 13:51:44; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;40172
 17; 7005.9; 05-NOV-2009 13:58:20; Dark ; 59.0; 108; Alp Col ; 2.65; 15200;occ; 118; 0;40172

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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
 17; 7006.9; 05-NOV-2009 15:38:57; Dark ; 60.0; 108; Alp Col ; 2.65; 15200;occ; 120; 0;40173

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 2; 1994.0; 05-NOV-2009 15:56:00; Dark ; 49.0; 94; 92Alp Cet ; 2.53; 3100;occ; 98; 0;40174
 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
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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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 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
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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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4; 2317.2; 05-NOV-2009 17:41:59; Bright; 40.0; 50; 13Alp Ari ; 2.01; 4250;occ; 80; 0;40175
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
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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
11; 4691.8; 05-NOV-2009 18:21:34; Bright; 41.5; 96; 68Del Leo ; 2.56; 9300;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
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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
7; 2812.1; 05-NOV-2009 19:30:50; Bright; 49.0; 149; 45Eps Per ; 2.89; 30000;occ; 98; 0;40176
8; 3904.9; 05-NOV-2009 19:49:03; Bright; 43.5; 36; 50Alp UMA ; 1.80; 6300;occ; 87; 0;40176
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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11; 4692.1; 05-NOV-2009 20:02:10; Bright; 40.5; 96; 68Del Leo ; 2.56; 9300;occ; 81; 0;40176
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13; 4986.4; 05-NOV-2009 20:07:04; Dark ; 68.5; 22; 32Alp Leo ; 1.36; 15200;occ; 137; 0;40176
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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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
7; 2520.5; 06-NOV-2009 02:08:22; Bright; 37.0; 173; 4Bet Tri ; 3.00; 8900;occ; 74; 0;40180
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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8; 1164.9; 06-NOV-2009 03:26:22; Dark ; 40.5; 157; The1Eri ; 2.91; 9300;occ; 81; 0;40181
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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9; 1992.2; 06-NOV-2009 05:20:46; Dark ; 51.0; 94; 92Alp Cet ; 2.53; 3100;occ; 102; 0;40182
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12; 2643.8; 06-NOV-2009 05:31:37; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;40182
13; 2877.1; 06-NOV-2009 05:35:30; Bright; 43.0; 35; 33Alp Per ; 1.79; 6250;occ; 86; 0;40182
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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
5; 2641.7; 06-NOV-2009 20:36:58; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 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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 19; 6562.1; 19-NOV-2009 14:51:17; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40373
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 5; 2628.3; 19-NOV-2009 15:26:19; Bright; 38.0; 79; 26Bet Per ; 2.31; 13100;occ; 76; 0;40374
 6; 2785.7; 19-NOV-2009 15:28:56; Bright; 39.5; 175; 39Del Per ; 3.01; 19400;occ; 79; 0;40374
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 11; 4335.2; 19-NOV-2009 15:54:46; Bright; 34.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 69; 0;40374
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 13; 5043.7; 19-NOV-2009 16:06:34; Bright; 37.0; 121; 29Gam Vir ; 2.74; 7200;occ; 74; 0;40374
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 16; 6007.0; 19-NOV-2009 16:22:38; Dark ; 40.0; 113; Mu Vel ; 2.69; 5000;occ; 80; 0;40374
 17; 6304.8; 19-NOV-2009 16:27:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40374
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 19; 6563.4; 19-NOV-2009 16:31:54; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40374
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 5; 2628.1; 19-NOV-2009 17:06:55; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 0;40375
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 13; 5043.7; 19-NOV-2009 17:47:10; Bright; 55.0; 121; 29Gam Vir ; 2.74; 7200;occ; 110; 0;40375
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 15; 5446.6; 19-NOV-2009 17:53:53; Dark ; 44.0; 171; 2Eps Crv ; 3.00; 4250;occ; 88; 0;40375
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2; 1188.3; 28-NOV-2009 18:40:44; Dark ; 55.0; 177; 1Zet CMa ; 3.02; 26000;occ; 110; 0;40505
3; 1531.2; 28-NOV-2009 18:46:27; Dark ; 56.0; 101; 11Alp Lep ; 2.58; 7000;occ; 112; 0;40505
4; 1755.3; 28-NOV-2009 18:50:11; Dark ; 60.0; 7; 19Bet Ori ; 0.10; 14000;occ; 120; 0;40505
5; 2244.3; 28-NOV-2009 18:58:20; Bright; 56.5; 13; 87Alp Tau ; 0.87; 3800;occ; 113; 0;40505
6; 2334.4; 28-NOV-2009 18:59:50; Bright; 39.0; 146; 25Eta Tau ; 2.87; 15200;occ; 78; 0;40505
7; 2478.9; 28-NOV-2009 19:02:15; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;40505
8; 2625.7; 28-NOV-2009 19:04:42; Bright; 57.0; 149; 45Eps Per ; 2.89; 30000;occ; 114; 0;40505
9; 2744.9; 28-NOV-2009 19:06:41; Bright; 37.0; 175; 39Del Per ; 3.01; 19400;occ; 74; 0;40505
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12; 3832.3; 28-NOV-2009 19:24:48; Bright; 47.0; 36; 50Alp UMa ; 1.80; 6300;occ; 94; 0;40505
13; 3929.4; 28-NOV-2009 19:26:25; Bright; 47.0; 82; 48Bet UMa ; 2.37; 10600;occ; 94; 0;40505
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15; 4195.0; 28-NOV-2009 19:30:51; Bright; 55.5; 174; 52Psi UMa ; 3.00; 4400;occ; 111; 0;40505
16; 4346.1; 28-NOV-2009 19:33:22; Bright; 39.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 79; 0;40505
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18; 5102.5; 28-NOV-2009 19:45:58; Bright; 42.0; 121; 29Gam Vir ; 2.74; 7200;occ; 84; 0;40505
19; 5435.8; 28-NOV-2009 19:51:32; Dark ; 47.5; 100; 4Gam Crv ; 2.58; 13100;occ; 95; 0;40505
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21; 6099.7; 28-NOV-2009 20:02:36; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;40505
22; 6416.6; 28-NOV-2009 20:07:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40505
23; 6613.0; 28-NOV-2009 20:11:09; Dark ; 49.5; 34; Gam2Vel ; 1.79; 23000;occ; 99; 0;40505
24; 6713.6; 28-NOV-2009 20:12:50; Dark ; 56.0; 70; Zet Pup ; 2.25; 39000;occ; 112; 0;40505
25; 6928.0; 28-NOV-2009 20:16:24; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;40505

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2; -502.8; 29-NOV-2009 00:54:57; Dark ; 50.0; 171; 2Eps Crv ; 3.00; 4250;occ; 100; 0;40508
3; 66.1; 29-NOV-2009 01:04:26; Dark ; 41.5; 113; Mu Vel ; 2.69; 5000;occ; 83; 0;40509
4; 383.2; 29-NOV-2009 01:09:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40509
5; 580.0; 29-NOV-2009 01:12:59; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;40509
6; 680.8; 29-NOV-2009 01:14:40; Dark ; 55.0; 70; Zet Pup ; 2.25; 39000;occ; 110; 0;40509
7; 894.6; 29-NOV-2009 01:18:14; Dark ; 57.5; 117; Pi Pup ; 2.71; 3800;occ; 115; 0;40509
8; 1126.5; 29-NOV-2009 01:22:06; Dark ; 46.0; 23; 21Eps CMa ; 1.50; 26000;occ; 92; 0;40509
9; 1531.7; 29-NOV-2009 01:28:51; Dark ; 55.0; 101; 11Alp Lep ; 2.58; 7000;occ; 110; 0;40509
10; 1754.9; 29-NOV-2009 01:32:34; Dark ; 59.0; 7; 19Bet Ori ; 0.10; 14000;occ; 118; 0;40509
11; 2242.7; 29-NOV-2009 01:40:42; Bright; 54.0; 13; 87Alp Tau ; 0.87; 3800;occ; 108; 0;40509
12; 2333.5; 29-NOV-2009 01:42:13; Bright; 40.0; 146; 25Eta Tau ; 2.87; 15200;occ; 80; 0;40509
13; 2477.5; 29-NOV-2009 01:44:37; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;40509
14; 2624.3; 29-NOV-2009 01:47:04; Bright; 36.5; 149; 45Eps Per ; 2.89; 30000;occ; 73; 0;40509
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18; 3830.7; 29-NOV-2009 02:07:10; Bright; 48.0; 36; 50Alp UMa ; 1.80; 6300;occ; 96; 0;40509
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 2;-1841.4; 29-NOV-2009 02:13:14; Bright; 49.5; 174; 52Psi UMA ; 3.00; 4400;occ; 99; 0;40509
 3;-1689.4; 29-NOV-2009 02:15:46; Bright; 57.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 114; 0;40509
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 5; -931.2; 29-NOV-2009 02:28:24; Bright; 60.0; 121; 29Gam Vir ; 2.74; 7200;occ; 120; 0;40509
 6; -502.0; 29-NOV-2009 02:35:33; Dark ; 50.0; 171; 2Eps Crv ; 3.00; 4250;occ; 100; 0;40509
 7; 67.0; 29-NOV-2009 02:45:02; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;40510
 8; 384.0; 29-NOV-2009 02:50:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40510
 9; 581.1; 29-NOV-2009 02:53:36; Dark ; 62.0; 34; Gam2Vel ; 1.79; 23000;occ; 124; 0;40510
 10; 682.1; 29-NOV-2009 02:55:17; Dark ; 56.5; 70; Zet Pup ; 2.25; 39000;occ; 113; 0;40510
 11; 895.6; 29-NOV-2009 02:58:51; Dark ; 63.0; 117; Pi Pup ; 2.71; 3800;occ; 126; 0;40510
 12; 1127.2; 29-NOV-2009 03:02:43; Dark ; 49.0; 23; 21Eps CMA ; 1.50; 26000;occ; 98; 0;40510
 13; 1531.9; 29-NOV-2009 03:09:27; Dark ; 55.5; 101; 11Alp Lep ; 2.58; 7000;occ; 111; 0;40510
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 15; 2112.4; 29-NOV-2009 03:19:08; Dark ; 29.0; 27; 24Gam Ori ; 1.64; 26000;occ; 58; 0;40510
 16; 2242.3; 29-NOV-2009 03:21:18; Bright; 55.5; 13; 87Alp Tau ; 0.87; 3800;occ; 111; 0;40510
 17; 2333.3; 29-NOV-2009 03:22:49; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;40510
 18; 2477.2; 29-NOV-2009 03:25:13; Bright; 41.0; 150; 44Zet Per ; 2.89; 28000;occ; 82; 0;40510
 19; 2623.8; 29-NOV-2009 03:27:39; Bright; 39.0; 149; 45Eps Per ; 2.89; 30000;occ; 78; 0;40510
 20; 2743.7; 29-NOV-2009 03:29:39; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;40510
 21; 2866.5; 29-NOV-2009 03:31:42; Bright; 53.5; 6; 13Alp Aur ; 0.08; 3400;occ; 107; 0;40510
 22; 2984.4; 29-NOV-2009 03:33:40; Bright; 51.5; 42; 34Bet Aur ; 1.90; 10200;occ; 103; 0;40510

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 3;-2004.4; 29-NOV-2009 03:51:07; Bright; 43.5; 87; 64Gam UMA ; 2.43; 11000;occ; 87; 0;40510
 4;-1841.9; 29-NOV-2009 03:53:49; Bright; 52.5; 174; 52Psi UMA ; 3.00; 4400;occ; 105; 0;40510
 5;-1689.5; 29-NOV-2009 03:56:22; Bright; 35.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 71; 0;40510
 6;-1131.0; 29-NOV-2009 04:05:40; Bright; 77.0; 62; 94Bet Leo ; 2.14; 9700;occ; 154; 0;40510
 7; -930.9; 29-NOV-2009 04:09:00; Bright; 42.5; 121; 29Gam Vir ; 2.74; 7200;occ; 85; 0;40510
 8; -596.6; 29-NOV-2009 04:14:35; Dark ; 46.5; 100; 4Gam Crv ; 2.58; 13100;occ; 93; 0;40510
 9; -501.5; 29-NOV-2009 04:16:10; Dark ; 50.0; 171; 2Eps Crv ; 3.00; 4250;occ; 100; 0;40510
 10; 67.6; 29-NOV-2009 04:25:39; Dark ; 42.5; 113; Mu Vel ; 2.69; 5000;occ; 85; 0;40511
 11; 384.8; 29-NOV-2009 04:30:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40511
 12; 582.0; 29-NOV-2009 04:34:13; Dark ; 57.0; 34; Gam2Vel ; 1.79; 23000;occ; 114; 0;40511
 13; 682.9; 29-NOV-2009 04:35:54; Dark ; 57.0; 70; Zet Pup ; 2.25; 39000;occ; 114; 0;40511
 14; 896.4; 29-NOV-2009 04:39:28; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;40511
 15; 1128.2; 29-NOV-2009 04:43:19; Dark ; 49.0; 23; 21Eps CMA ; 1.50; 26000;occ; 98; 0;40511
 16; 1532.0; 29-NOV-2009 04:50:03; Dark ; 57.0; 101; 11Alp Lep ; 2.58; 7000;occ; 114; 0;40511
 17; 1754.7; 29-NOV-2009 04:53:46; Dark ; 60.5; 7; 19Bet Ori ; 0.10; 14000;occ; 121; 0;40511
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 20; 2333.0; 29-NOV-2009 05:03:24; Bright; 40.0; 146; 25Eta Tau ; 2.87; 15200;occ; 80; 0;40511
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 23; 2743.8; 29-NOV-2009 05:10:15; Bright; 37.5; 175; 39Del Per ; 3.01; 19400;occ; 75; 0;40511
 24; 2865.8; 29-NOV-2009 05:12:17; Bright; 47.0; 6; 13Alp Aur ; 0.08; 3400;occ; 94; 0;40511
 25; 2983.5; 29-NOV-2009 05:14:15; Bright; 50.5; 42; 34Bet Aur ; 1.90; 10200;occ; 101; 0;40511

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 3;-2004.8; 29-NOV-2009 05:31:42; Bright; 45.0; 87; 64Gam UMA ; 2.43; 11000;occ; 90; 0;40511
 4;-1842.1; 29-NOV-2009 05:34:25; Bright; 50.0; 174; 52Psi UMA ; 3.00; 4400;occ; 100; 0;40511
 5;-1689.4; 29-NOV-2009 05:36:58; Bright; 36.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 72; 0;40511
 6;-1130.5; 29-NOV-2009 05:46:17; Bright; 52.0; 62; 94Bet Leo ; 2.14; 9700;occ; 104; 0;40511
 7; -930.4; 29-NOV-2009 05:49:37; Bright; 43.0; 121; 29Gam Vir ; 2.74; 7200;occ; 86; 0;40511
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 10; 68.4; 29-NOV-2009 06:06:16; Dark ; 42.5; 113; Mu Vel ; 2.69; 5000;occ; 85; 0;40512
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 12; 582.8; 29-NOV-2009 06:14:50; Dark ; 49.5; 34; Gam2Vel ; 1.79; 23000;occ; 99; 0;40512
 13; 684.0; 29-NOV-2009 06:16:31; Dark ; 55.0; 70; Zet Pup ; 2.25; 39000;occ; 110; 0;40512
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 15; 1128.8; 29-NOV-2009 06:23:56; Dark ; 52.0; 23; 21Eps CMA ; 1.50; 26000;occ; 104; 0;40512
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22; 2623.5; 29-NOV-2009 06:48:51; Bright; 37.5; 149; 45Eps Per ; 2.89; 30000;occ; 75; 0;40512
23; 2743.4; 29-NOV-2009 06:50:51; Bright; 38.0; 175; 39Del Per ; 3.01; 19400;occ; 76; 0;40512
24; 2865.1; 29-NOV-2009 06:52:52; Bright; 49.5; 6; 13Alp Aur ; 0.08; 3400;occ; 99; 0;40512
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 3; 1533.2; 29-NOV-2009 19:55:28; Dark ; 56.5; 101; 11Alp Lep ; 2.58; 7000;occ; 113; 0;40520
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 6; 2106.2; 29-NOV-2009 20:05:01; Dark ; 62.0; 27; 24Gam Ori ; 1.64; 26000;occ; 124; 0;40520
 7; 2238.3; 29-NOV-2009 20:07:13; Bright; 56.0; 13; 87Alp Tau ; 0.87; 3800;occ; 112; 0;40520
 8; 2331.4; 29-NOV-2009 20:08:46; Bright; 38.0; 146; 25Eta Tau ; 2.87; 15200;occ; 76; 0;40520
 9; 2474.7; 29-NOV-2009 20:11:09; Bright; 40.5; 150; 44Zet Per ; 2.89; 28000;occ; 81; 0;40520
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12; 2859.5; 29-NOV-2009 20:17:34; Bright; 50.5; 6; 13Alp Aur ; 0.08; 3400;occ; 101; 0;40520
13; 2974.4; 29-NOV-2009 20:19:29; Bright; 52.5; 42; 34Bet Aur ; 1.90; 10200;occ; 105; 0;40520
14; 3827.2; 29-NOV-2009 20:33:42; Bright; 50.5; 36; 50Alp UMa ; 1.80; 6300;occ; 101; 0;40520
15; 3923.8; 29-NOV-2009 20:35:18; Bright; 45.5; 82; 48Bet UMa ; 2.37; 10600;occ; 91; 0;40520
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18; 4346.9; 29-NOV-2009 20:42:22; Bright; 40.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 81; 0;40520
19; 4911.5; 29-NOV-2009 20:51:46; Bright; 77.5; 62; 94Bet Leo ; 2.14; 9700;occ; 155; 0;40520
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13; 1956.6; 29-NOV-2009 21:43:07; Dark ; 49.0; 72; 34Del Ori ; 2.25; 30000;occ; 98; 0;40521
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19; 2745.6; 29-NOV-2009 21:56:16; Bright; 32.0; 175; 39Del Per ; 3.01; 19400;occ; 64; 0;40521
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