

GOMOS Daily Report 19-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	20NOV2009 11:41:52
Data source version	GOMOS/5.00L03, GOMOS/5.00L04 (since 08:27:31, orbit 40370)
Start time of products	19NOV2009 00:04:31
Stop time of products	19NOV2009 23:05:04
Store outputs in DB	No
Nb of level 1b prods	120
Nb of prods with errors	2

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

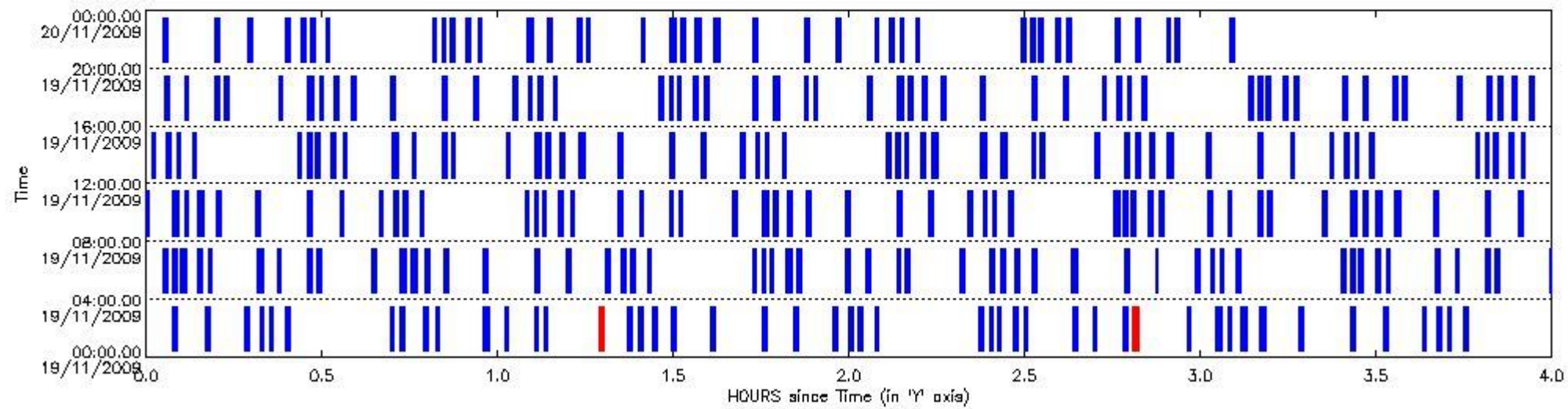
2.1 Level 0 products arrived in PCF (see template [here](#))

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
19-NOV-2009 01:17:14	MuVel	113	40365
19-NOV-2009 02:48:30	2EpsCrv	171	40366

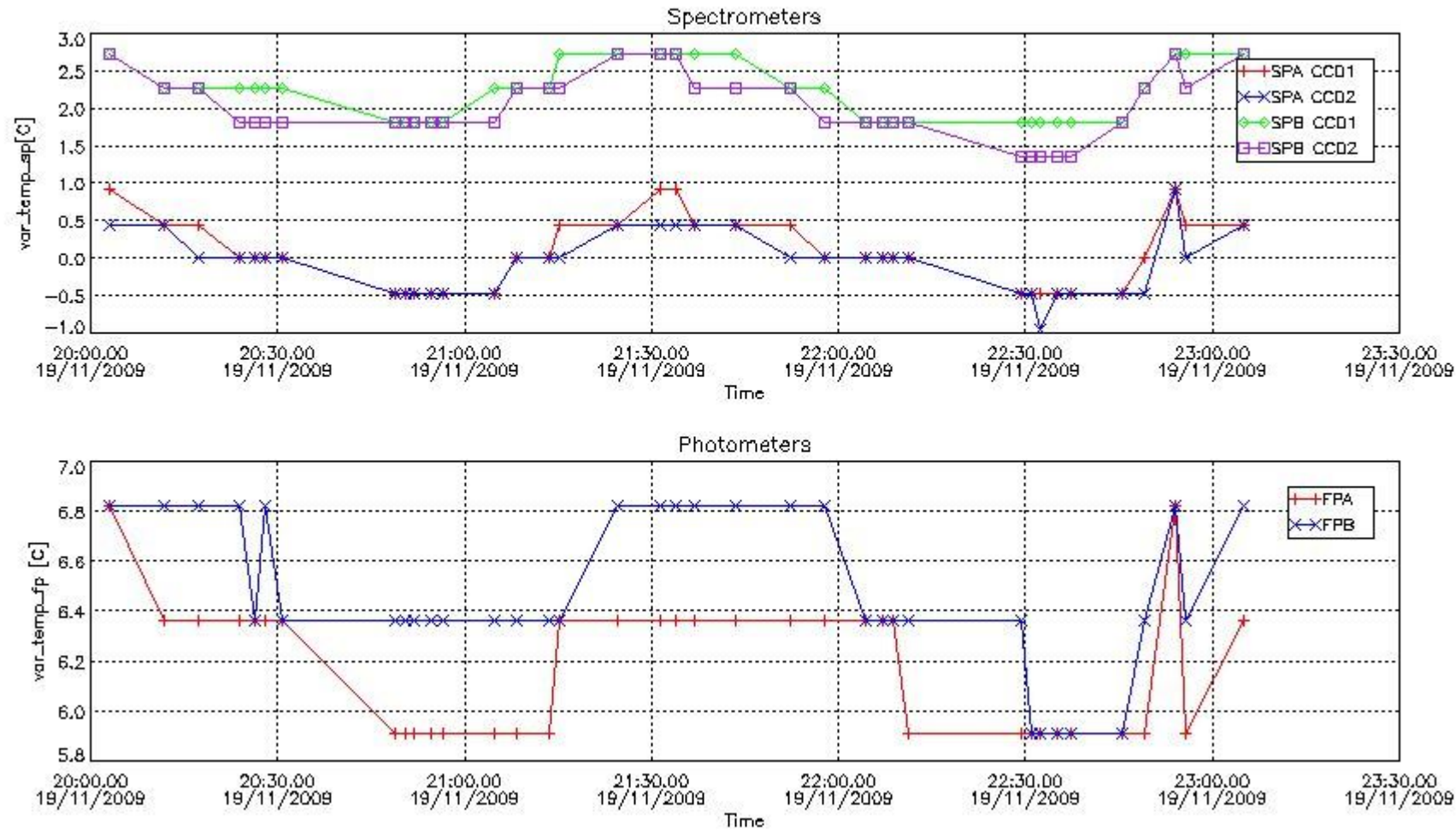
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20091119_000431_000000512084_00231_40365_3916.N1	19-NOV-2009 00:04:31	Straylight	51.000	165	34Gam Eri	2.9500	3200.0	102	40365	No
2	GOM_TRA_1PNPDE20091119_001001_000000462084_00231_40365_3917.N1	19-NOV-2009 00:10:01	Twilight_and_stray	45.500	94	92Alp Cet	2.5260	3100.0	91	40365	No
3	GOM_TRA_1PNPDE20091119_001643_000000452084_00231_40365_3918.N1	19-NOV-2009 00:16:43	Bright	45.000	146	25Eta Tau	2.8730	15200.0	90	40365	No
4	GOM_TRA_1PNPDE20091119_001919_000000422084_00231_40365_3919.N1	19-NOV-2009 00:19:19	Bright	42.000	150	44Zet Per	2.8900	28000.0	84	40365	No
5	GOM_TRA_1PNPDE20091119_002058_000000402084_00231_40365_3920.N1	19-NOV-2009 00:20:58	Bright	40.000	79	26Bet Per	2.3100	13100.0	80	40365	No
6	GOM_TRA_1PNPDE20091119_002347_000000392084_00231_40365_3921.N1	19-NOV-2009 00:23:47	Bright	38.500	35	33Alp Per	1.7950	6250.0	77	40365	No
7	GOM_TRA_1PNPDE20091119_004138_000000422084_00231_40365_3922.N1	19-NOV-2009 00:41:38	Bright	42.000	36	50Alp UMa	1.8000	6300.0	84	40365	No
8	GOM_TRA_1PNPDE20091119_004317_000000432084_00231_40365_3923.N1	19-NOV-2009 00:43:17	Bright	42.500	82	48Bet UMa	2.3650	10600.0	85	40365	No
9	GOM_TRA_1PNPDE20091119_004726_000000442084_00231_40365_3924.N1	19-NOV-2009 00:47:26	Bright	44.000	174	52Psi UMa	3.0040	4400.0	88	40365	No

10	GOM_TRA_1PNPDE20091119_004922_000000342084_00231_40365_3925.N1	19-NOV-2009 00:49:22	Bright	34.000	152	12Alp2CVn	2.8900	11000.	68	40365	No
11	GOM_TRA_1PNPDE20091119_005737_000000542084_00231_40365_3926.N1	19-NOV-2009 00:57:37	Bright	53.500	62	94Bet Leo	2.1360	9700.0	107	40365	No
12	GOM_TRA_1PNPDE20091119_010107_000000452084_00231_40365_3927.N1	19-NOV-2009 01:01:07	Bright	45.000	121	29Gam Vir	2.7400	7200.0	90	40365	No
13	GOM_TRA_1PNPDE20091119_010616_000000442084_00231_40365_3914.N1	19-NOV-2009 01:06:16	Twilight	43.500	100	4Gam Crv	2.5800	13100.	87	40365	No
14	GOM_TRA_1PNPDE20091119_010748_000000442084_00231_40365_3915.N1	19-NOV-2009 01:07:48	Twilight	43.500	171	2Eps Crv	3.0010	4250.0	87	40365	No
15	GOM_TRA_1PNPDE20091119_012401_000000492084_00232_40366_3916.N1	19-NOV-2009 01:24:01	Dark	49.000	41	Eps Car	1.8600	4100.0	98	40366	No
16	GOM_TRA_1PNPDE20091119_012620_000000542084_00232_40366_3917.N1	19-NOV-2009 01:26:20	Dark	54.000	70	Zet Pup	2.2460	39000.	108	40366	No
17	GOM_TRA_1PNPDE20091119_012931_000000542084_00232_40366_3918.N1	19-NOV-2009 01:29:31	Dark	53.500	2	Alp Car	-0.73600	7000.0	107	40366	No
18	GOM_TRA_1PNPDE20091119_013612_000000542084_00232_40366_3919.N1	19-NOV-2009 01:36:12	Dark	53.500	108	Alp Col	2.6520	15200.	107	40366	No
19	GOM_TRA_1PNPDE20091119_014507_000000502084_00232_40366_3920.N1	19-NOV-2009 01:45:07	Straylight	50.000	165	34Gam Eri	2.9500	3200.0	100	40366	No
20	GOM_TRA_1PNPDE20091119_015036_000000462084_00232_40366_3921.N1	19-NOV-2009 01:50:36	Twilight	46.000	94	92Alp Cet	2.5260	3100.0	92	40366	No
21	GOM_TRA_1PNPDE20091119_015719_000000432084_00232_40366_3922.N1	19-NOV-2009 01:57:19	Bright	42.500	146	25Eta Tau	2.8730	15200.	85	40366	No
22	GOM_TRA_1PNPDE20091119_015954_000000442084_00232_40366_3923.N1	19-NOV-2009 01:59:54	Bright	43.500	150	44Zet Per	2.8900	28000.	87	40366	No
23	GOM_TRA_1PNPDE20091119_020134_000000402084_00232_40366_3924.N1	19-NOV-2009 02:01:34	Bright	39.500	79	26Bet Per	2.3100	13100.	79	40366	No
24	GOM_TRA_1PNPDE20091119_020423_000000402084_00232_40366_3925.N1	19-NOV-2009 02:04:23	Bright	39.500	35	33Alp Per	1.7950	6250.0	79	40366	No
25	GOM_TRA_1PNPDE20091119_022214_000000462084_00232_40366_3926.N1	19-NOV-2009 02:22:14	Bright	45.500	36	50Alp UMa	1.8000	6300.0	91	40366	No
26	GOM_TRA_1PNPDE20091119_022353_000000452084_00232_40366_3927.N1	19-NOV-2009 02:23:53	Bright	45.000	82	48Bet UMa	2.3650	10600.	90	40366	No
27	GOM_TRA_1PNPDE20091119_022515_000000382084_00232_40366_3922.N1	19-NOV-2009 02:25:15	Bright	38.000	87	64Gam UMa	2.4330	11000.	76	40366	Yes
28	GOM_TRA_1PNPDE20091119_022801_000000482084_00232_40366_3923.N1	19-NOV-2009 02:28:01	Bright	47.500	174	52Psi UMa	3.0040	4400.0	95	40366	No
29	GOM_TRA_1PNPDE20091119_022958_000000342084_00232_40366_3924.N1	19-NOV-2009 02:29:58	Bright	34.000	152	12Alp2CVn	2.8900	11000.	68	40366	No
30	GOM_TRA_1PNPDE20091119_023813_000000412084_00232_40366_3925.N1	19-NOV-2009 02:38:13	Bright	40.500	62	94Bet Leo	2.1360	9700.0	81	40366	No
31	GOM_TRA_1PNPDE20091119_024143_000000392084_00232_40366_3926.N1	19-NOV-2009 02:41:43	Bright	38.500	121	29Gam Vir	2.7400	7200.0	77	40366	No
32	GOM_TRA_1PNPDE20091119_024653_000000442084_00232_40366_3927.N1	19-NOV-2009 02:46:53	Twilight	44.000	100	4Gam Crv	2.5800	13100.	88	40366	No
33	GOM_TRA_1PNPDE20091119_025745_000000412084_00232_40366_3928.N1	19-NOV-2009 02:57:45	Dark	41.000	113	Mu Vel	2.6920	5000.0	82	40366	No
34	GOM_TRA_1PNPDE20091119_030437_000000432084_00233_40367_3929.N1	19-NOV-2009 03:04:37	Dark	43.000	41	Eps Car	1.8600	4100.0	86	40367	No
35	GOM_TRA_1PNPDE20091119_030657_000000542084_00233_40367_3930.N1	19-NOV-2009 03:06:57	Dark	54.000	70	Zet Pup	2.2460	39000.	108	40367	No
36	GOM_TRA_1PNPDE20091119_031008_000000602084_00233_40367_3931.N1	19-NOV-2009 03:10:08	Dark	60.000	2	Alp Car	-0.73600	7000.0	120	40367	No
37	GOM_TRA_1PNPDE20091119_031648_000000522084_00233_40367_3932.N1	19-NOV-2009 03:16:48	Dark	52.000	108	Alp Col	2.6520	15200.	104	40367	No
38	GOM_TRA_1PNPDE20091119_032543_000000512084_00233_40367_3933.N1	19-NOV-2009 03:25:43	Straylight	51.000	165	34Gam Eri	2.9500	3200.0	102	40367	No
39	GOM_TRA_1PNPDE20091119_033112_000000462084_00233_40367_3934.N1	19-NOV-2009 03:31:12	Twilight	45.500	94	92Alp Cet	2.5260	3100.0	91	40367	No
40	GOM_TRA_1PNPDE20091119_033755_000000432084_00233_40367_3935.N1	19-NOV-2009 03:37:55	Bright	42.500	146	25Eta Tau	2.8730	15200.	85	40367	No
41	GOM_TRA_1PNPDE20091119_034029_000000432084_00233_40367_3936.N1	19-NOV-2009 03:40:29	Bright	43.000	150	44Zet Per	2.8900	28000.	86	40367	No
42	GOM_TRA_1PNPDE20091119_034209_000000402084_00233_40367_3937.N1	19-NOV-2009 03:42:09	Bright	39.500	79	26Bet Per	2.3100	13100.	79	40367	No
43	GOM_TRA_1PNPDE20091119_034458_000000392084_00233_40367_3938.N1	19-NOV-2009 03:44:58	Bright	39.000	35	33Alp Per	1.7950	6250.0	78	40367	No
44	GOM_TRA_1PNPDE20091119_040250_000000432084_00233_40367_3928.N1	19-NOV-2009 04:02:50	Bright	43.000	36	50Alp UMa	1.8000	6300.0	86	40367	No
45	GOM_TRA_1PNPDE20091119_040428_000000442084_00233_40367_3929.N1	19-NOV-2009 04:04:28	Bright	44.000	82	48Bet UMa	2.3650	10600.	88	40367	No
46	GOM_TRA_1PNPDE20091119_040551_000000582084_00233_40367_3930.N1	19-NOV-2009 04:05:51	Bright	58.000	87	64Gam UMa	2.4330	11000.	116	40367	No
47	GOM_TRA_1PNPDE20091119_040837_000000512084_00233_40367_3931.N1	19-NOV-2009 04:08:37	Bright	50.500	174	52Psi UMa	3.0040	4400.0	101	40367	No
48	GOM_TRA_1PNPDE20091119_041034_000000372084_00233_40367_3932.N1	19-NOV-2009 04:10:34	Bright	37.000	152	12Alp2CVn	2.8900	11000.	74	40367	No
49	GOM_TRA_1PNPDE20091119_041849_000000642084_00233_40367_3933.N1	19-NOV-2009 04:18:49	Bright	64.000	62	94Bet Leo	2.1360	9700.0	128	40367	No
50	GOM_TRA_1PNPDE20091119_042220_000000392084_00233_40367_3934.N1	19-NOV-2009 04:22:20	Bright	38.500	121	29Gam Vir	2.7400	7200.0	77	40367	No
51	GOM_TRA_1PNPDE20091119_042729_000000452084_00233_40367_3935.N1	19-NOV-2009 04:27:29	Twilight	44.500	100	4Gam Crv	2.5800	13100.	89	40367	No
52	GOM_TRA_1PNPDE20091119_042901_000000462084_00233_40367_3936.N1	19-NOV-2009 04:29:01	Twilight	46.000	171	2Eps Crv	3.0010	4250.0	92	40367	No
53	GOM_TRA_1PNPDE20091119_043822_000000512084_00233_40367_3937.N1	19-NOV-2009 04:38:22	Dark	50.500	113	Mu Vel	2.6920	5000.0	101	40367	No
54	GOM_TRA_1PNPDE20091119_044514_000000582084_00234_40368_3938.N1	19-NOV-2009 04:45:14	Dark	57.500	41	Eps Car	1.8600	4100.0	115	40368	No
55	GOM_TRA_1PNPDE20091119_044734_000000532084_00234_40368_3939.N1	19-NOV-2009 04:47:34	Dark	53.000	70	Zet Pup	2.2460	39000.	106	40368	No
56	GOM_TRA_1PNPDE20091119_045044_000000512084_00234_40368_3940.N1	19-NOV-2009 04:50:44	Dark	50.500	2	Alp Car	-0.73600	7000.0	101	40368	No
57	GOM_TRA_1PNPDE20091119_045725_000000502084_00234_40368_3941.N1	19-NOV-2009 04:57:25	Dark	50.000	108	Alp Col	2.6520	15200.	100	40368	No
58	GOM_TRA_1PNPDE20091119_050619_000000502084_00234_40368_3942.N1	19-NOV-2009 05:06:19	Straylight	50.000	165	34Gam Eri	2.9500	3200.0	100	40368	No
59	GOM_TRA_1PNPDE20091119_051148_000000442084_00234_40368_3943.N1	19-NOV-2009 05:11:48	Twilight	44.000	94	92Alp Cet	2.5260	3100.0	88	40368	No
60	GOM_TRA_1PNPDE20091119_051830_000000422084_00234_40368_3944.N1	19-NOV-2009 05:18:30	Bright	42.000	146	25Eta Tau	2.8730	15200.	84	40368	No
61	GOM_TRA_1PNPDE20091119_052105_000000442084_00234_40368_3945.N1	19-NOV-2009 05:21:05	Bright	43.500	150	44Zet Per	2.8900	28000.	87	40368	No
62	GOM_TRA_1PNPDE20091119_052245_000000412084_00234_40368_3946.N1	19-NOV-2009 05:22:45	Bright	40.500	79	26Bet Per	2.3100	13100.	81	40368	No
63	GOM_TRA_1PNPDE20091119_052534_000000412084_00234_40368_3947.N1	19-NOV-2009 05:25:34	Bright	40.500	35	33Alp Per	1.7950	6250.0	81	40368	No
64	GOM_TRA_1PNPDE20091119_054326_000000472084_00234_40368_3935.N1	19-NOV-2009 05:43:26	Bright	47.000	36	50Alp UMa	1.8000	6300.0	94	40368	No
65	GOM_TRA_1PNPDE20091119_054504_000000442084_00234_40368_3936.N1	19-NOV-2009 05:45:04	Bright	43.500	82	48Bet UMa	2.3650	10600.	87	40368	No
66	GOM_TRA_1PNPDE20091119_054627_000000422084_00234_40368_3937.N1	19-NOV-2009 05:46:27	Bright	42.000	87	64Gam UMa	2.4330	11000.	84	40368	No
67	GOM_TRA_1PNPDE20091119_054913_000000662084_00234_40368_3938.N1	19-NOV-2009 05:49:13	Bright	66.000	174	52Psi UMa	3.0040	4400.0	132	40368	No
68	GOM_TRA_1PNPDE20091119_055110_000000362084_00234_40368_3939.N1	19-NOV-2009 05:51:10	Bright	35.500	152	12Alp2CVn	2.8900	11000.	71	40368	No

69	GOM_TRA_1PNPDE20091119_055926_000000462084_00234_40368_3940.N1	19-NOV-2009 05:59:26	Bright	46.000	62	94Bet Leo	2.1360	9700.0	92	40368	No
70	GOM_TRA_1PNPDE20091119_060256_000000362084_00234_40368_3941.N1	19-NOV-2009 06:02:56	Bright	35.500	121	29Gam Vir	2.7400	7200.0	71	40368	No
71	GOM_TRA_1PNPDE20091119_060806_000000452084_00234_40368_3942.N1	19-NOV-2009 06:08:06	Twilight	45.000	100	4Gam Crv	2.5800	13100.	90	40368	No
72	GOM_TRA_1PNPDE20091119_060938_000000452084_00234_40368_3943.N1	19-NOV-2009 06:09:38	Twilight	44.500	171	2Eps Crv	3.0010	4250.0	89	40368	No
73	GOM_TRA_1PNPDE20091119_061858_000000442084_00234_40368_3944.N1	19-NOV-2009 06:18:58	Dark	44.000	113	Mu Vel	2.6920	5000.0	88	40368	No
74	GOM_TRA_1PNPDE20091119_062551_000000522084_00235_40369_3945.N1	19-NOV-2009 06:25:51	Dark	51.500	41	Eps Car	1.8600	4100.0	103	40369	No
75	GOM_TRA_1PNPDE20091119_062811_000000532084_00235_40369_3946.N1	19-NOV-2009 06:28:11	Dark	53.000	70	Zet Pup	2.2460	39000.	106	40369	No
76	GOM_TRA_1PNPDE20091119_063121_000000482084_00235_40369_3947.N1	19-NOV-2009 06:31:21	Dark	47.500	2	Alp Car	-0.73600	7000.0	95	40369	No
77	GOM_TRA_1PNPDE20091119_063801_000000532084_00235_40369_3948.N1	19-NOV-2009 06:38:01	Dark	52.500	108	Alp Col	2.6520	15200.	105	40369	No
78	GOM_TRA_1PNPDE20091119_064655_000000492084_00235_40369_3949.N1	19-NOV-2009 06:46:55	Straylight	49.000	165	34Gam Eri	2.9500	3200.0	98	40369	No
79	GOM_TRA_1PNPDE20091119_065224_000000192084_00235_40369_3950.N1	19-NOV-2009 06:52:24	Twilight	18.500	94	92Alp Cet	2.5260	3100.0	37	40369	No
80	GOM_TRA_1PNPDE20091119_065905_000000422084_00235_40369_3951.N1	19-NOV-2009 06:59:05	Bright	41.500	146	25Eta Tau	2.8730	15200.	83	40369	No
81	GOM_TRA_1PNPDE20091119_070140_000000432084_00235_40369_3952.N1	19-NOV-2009 07:01:40	Bright	42.500	150	44Zet Per	2.8900	28000.	85	40369	No
82	GOM_TRA_1PNPDE20091119_070321_000000392084_00235_40369_3953.N1	19-NOV-2009 07:03:21	Bright	39.000	79	26Bet Per	2.3100	13100.	78	40369	No
83	GOM_TRA_1PNPDE20091119_070609_000000402084_00235_40369_3954.N1	19-NOV-2009 07:06:09	Bright	40.000	35	33Alp Per	1.7950	6250.0	80	40369	No
84	GOM_TRA_1PNPDE20091119_200253_000000522084_00243_40377_3972.N1	19-NOV-2009 20:02:53	Dark	52.000	108	Alp Col	2.6520	15200.	104	40377	No
85	GOM_TRA_1PNPDE20091119_201143_000000492084_00243_40377_3973.N1	19-NOV-2009 20:11:43	Straylight	49.000	165	34Gam Eri	2.9500	3200.0	98	40377	No
86	GOM_TRA_1PNPDE20091119_201712_000000472084_00243_40377_3974.N1	19-NOV-2009 20:17:12	Twilight	47.000	94	92Alp Cet	2.5260	3100.0	94	40377	No
87	GOM_TRA_1PNPDE20091119_202350_000000412084_00243_40377_3975.N1	19-NOV-2009 20:23:50	Bright	40.500	146	25Eta Tau	2.8730	15200.	81	40377	No
88	GOM_TRA_1PNPDE20091119_202624_000000422084_00243_40377_3976.N1	19-NOV-2009 20:26:24	Bright	41.500	150	44Zet Per	2.8900	28000.	83	40377	No
89	GOM_TRA_1PNPDE20091119_202806_000000492084_00243_40377_3977.N1	19-NOV-2009 20:28:06	Bright	49.000	79	26Bet Per	2.3100	13100.	98	40377	No
90	GOM_TRA_1PNPDE20091119_203043_000000392084_00243_40377_3978.N1	19-NOV-2009 20:30:43	Bright	38.500	175	39Del Per	3.0100	19400.	77	40377	No
91	GOM_TRA_1PNPDE20091119_204847_000000432084_00243_40377_3979.N1	19-NOV-2009 20:48:47	Bright	42.500	36	50Alp UMa	1.8000	6300.0	85	40377	No
92	GOM_TRA_1PNPDE20091119_205025_000000442084_00243_40377_3980.N1	19-NOV-2009 20:50:25	Bright	43.500	82	48Bet UMa	2.3650	10600.	87	40377	No
93	GOM_TRA_1PNPDE20091119_205150_000000522084_00243_40377_3981.N1	19-NOV-2009 20:51:50	Bright	52.000	87	64Gam UMa	2.4330	11000.	104	40377	No
94	GOM_TRA_1PNPDE20091119_205435_000000442084_00243_40377_3982.N1	19-NOV-2009 20:54:35	Bright	44.000	174	52Psi UMa	3.0040	4400.0	88	40377	No
95	GOM_TRA_1PNPDE20091119_205634_000000342084_00243_40377_3983.N1	19-NOV-2009 20:56:34	Bright	34.000	152	12Alp2CVn	2.8900	11000.	68	40377	No
96	GOM_TRA_1PNPDE20091119_210453_000000642084_00243_40377_3984.N1	19-NOV-2009 21:04:53	Bright	63.500	62	94Bet Leo	2.1360	9700.0	127	40377	No
97	GOM_TRA_1PNPDE20091119_210823_000000552084_00243_40377_3978.N1	19-NOV-2009 21:08:23	Bright	55.000	121	29Gam Vir	2.7400	7200.0	110	40377	No
98	GOM_TRA_1PNPDE20091119_211333_000000432084_00243_40377_3979.N1	19-NOV-2009 21:13:33	Twilight	43.000	100	4Gam Crv	2.5800	13100.	86	40377	No
99	GOM_TRA_1PNPDE20091119_211506_000000452084_00243_40377_3980.N1	19-NOV-2009 21:15:06	Twilight	44.500	171	2Eps Crv	3.0010	4250.0	89	40377	No
100	GOM_TRA_1PNPDE20091119_212428_000000422084_00243_40377_3981.N1	19-NOV-2009 21:24:28	Dark	41.500	113	Mu Vel	2.6920	5000.0	83	40377	No
101	GOM_TRA_1PNPDE20091119_213119_000000462084_00244_40378_3982.N1	19-NOV-2009 21:31:19	Dark	46.000	41	Eps Car	1.8600	4100.0	92	40378	No
102	GOM_TRA_1PNPDE20091119_213345_000000512084_00244_40378_3983.N1	19-NOV-2009 21:33:45	Dark	51.000	70	Zet Pup	2.2460	39000.	102	40378	No
103	GOM_TRA_1PNPDE20091119_213650_000000602084_00244_40378_3984.N1	19-NOV-2009 21:36:50	Dark	60.000	2	Alp Car	-0.73600	7000.0	120	40378	No
104	GOM_TRA_1PNPDE20091119_214330_000000512084_00244_40378_3985.N1	19-NOV-2009 21:43:30	Dark	51.000	108	Alp Col	2.6520	15200.	102	40378	No
105	GOM_TRA_1PNPDE20091119_215219_000000492084_00244_40378_3986.N1	19-NOV-2009 21:52:19	Straylight	48.500	165	34Gam Eri	2.9500	3200.0	97	40378	No
106	GOM_TRA_1PNPDE20091119_215747_000000462084_00244_40378_3987.N1	19-NOV-2009 21:57:47	Twilight	45.500	94	92Alp Cet	2.5260	3100.0	91	40378	No
107	GOM_TRA_1PNPDE20091119_220425_000000422084_00244_40378_3988.N1	19-NOV-2009 22:04:25	Bright	41.500	146	25Eta Tau	2.8730	15200.	83	40378	No
108	GOM_TRA_1PNPDE20091119_220659_000000442084_00244_40378_3989.N1	19-NOV-2009 22:06:59	Bright	43.500	150	44Zet Per	2.8900	28000.	87	40378	No
109	GOM_TRA_1PNPDE20091119_220842_000000392084_00244_40378_3990.N1	19-NOV-2009 22:08:42	Bright	38.500	79	26Bet Per	2.3100	13100.	77	40378	No
110	GOM_TRA_1PNPDE20091119_221118_000000392084_00244_40378_3991.N1	19-NOV-2009 22:11:18	Bright	39.000	175	39Del Per	3.0100	19400.	78	40378	No
111	GOM_TRA_1PNPDE20091119_222922_000000472084_00244_40378_3992.N1	19-NOV-2009 22:29:22	Bright	46.500	36	50Alp UMa	1.8000	6300.0	93	40378	No
112	GOM_TRA_1PNPDE20091119_223101_000000442084_00244_40378_3993.N1	19-NOV-2009 22:31:01	Bright	43.500	82	48Bet UMa	2.3650	10600.	87	40378	No
113	GOM_TRA_1PNPDE20091119_223226_000000412084_00244_40378_3994.N1	19-NOV-2009 22:32:26	Bright	41.000	87	64Gam UMa	2.4330	11000.	82	40378	No
114	GOM_TRA_1PNPDE20091119_223511_000000482084_00244_40378_3995.N1	19-NOV-2009 22:35:11	Bright	47.500	174	52Psi UMa	3.0040	4400.0	95	40378	No
115	GOM_TRA_1PNPDE20091119_223710_000000532084_00244_40378_3996.N1	19-NOV-2009 22:37:10	Bright	53.000	152	12Alp2CVn	2.8900	11000.	106	40378	No
116	GOM_TRA_1PNPDE20091119_224530_000000462084_00244_40378_3997.N1	19-NOV-2009 22:45:30	Bright	45.500	62	94Bet Leo	2.1360	9700.0	91	40378	No
117	GOM_TRA_1PNPDE20091119_224859_000000372084_00244_40378_3998.N1	19-NOV-2009 22:48:59	Bright	37.000	121	29Gam Vir	2.7400	7200.0	74	40378	No
118	GOM_TRA_1PNPDE20091119_225410_000000442084_00244_40378_3984.N1	19-NOV-2009 22:54:10	Twilight	43.500	100	4Gam Crv	2.5800	13100.	87	40378	Yes
119	GOM_TRA_1PNPDE20091119_225542_000000432084_00244_40378_3985.N1	19-NOV-2009 22:55:42	Twilight	43.000	171	2Eps Crv	3.0010	4250.0	86	40378	No
120	GOM_TRA_1PNPDE20091119_230504_000000442084_00244_40378_3986.N1	19-NOV-2009 23:05:04	Dark	43.500	113	Mu Vel	2.6920	5000.0	87	40378	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).

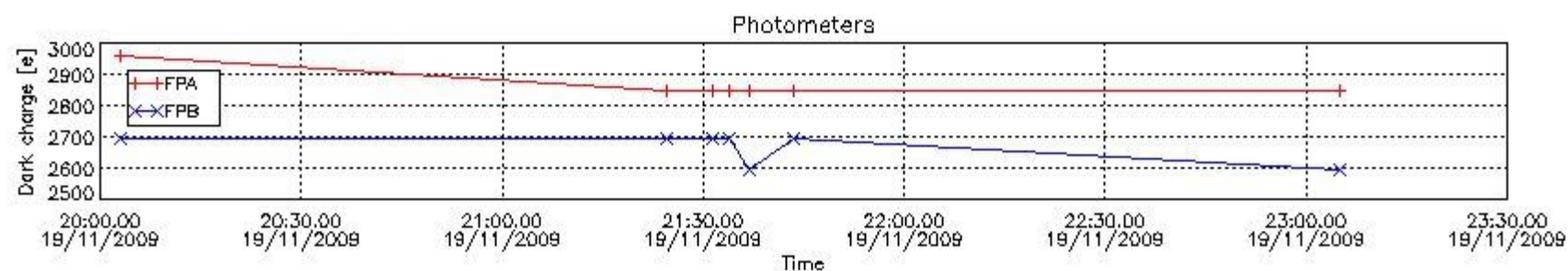
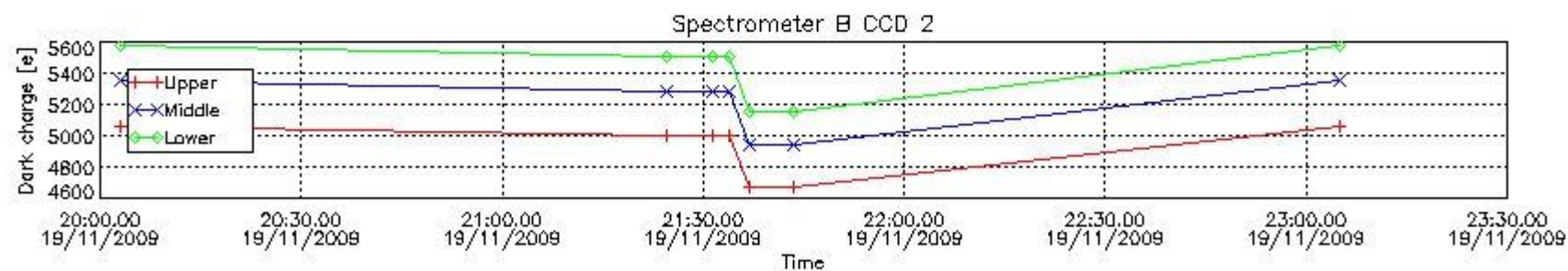
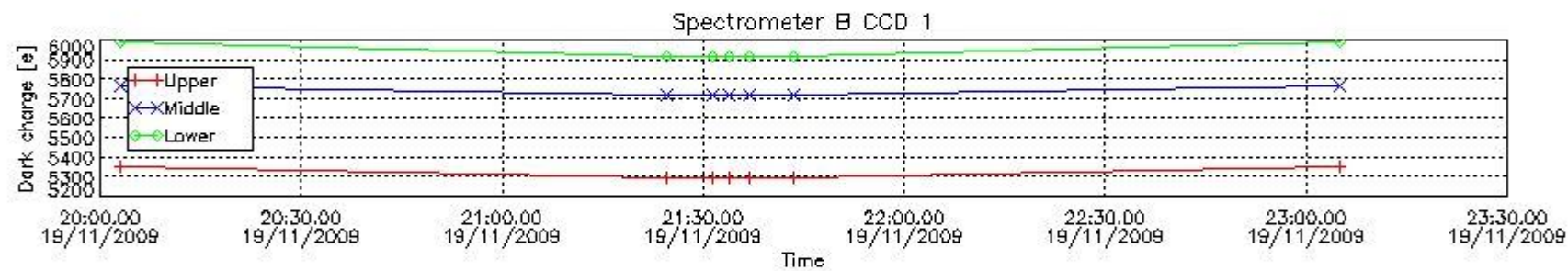
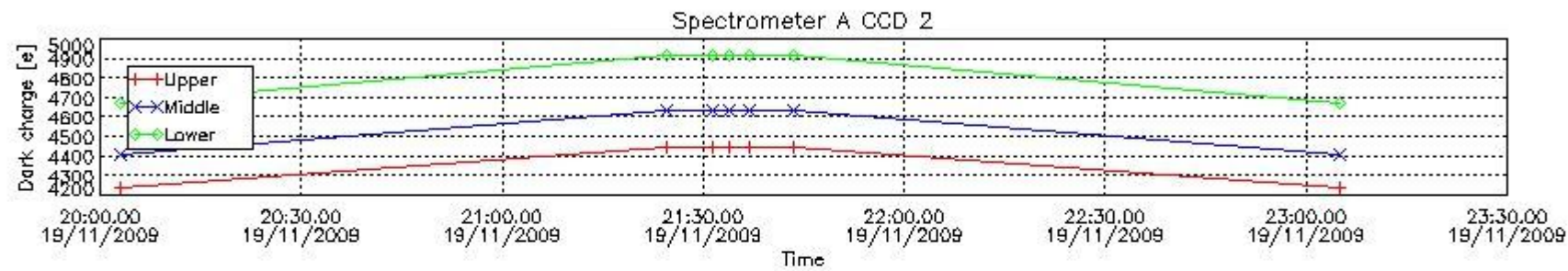
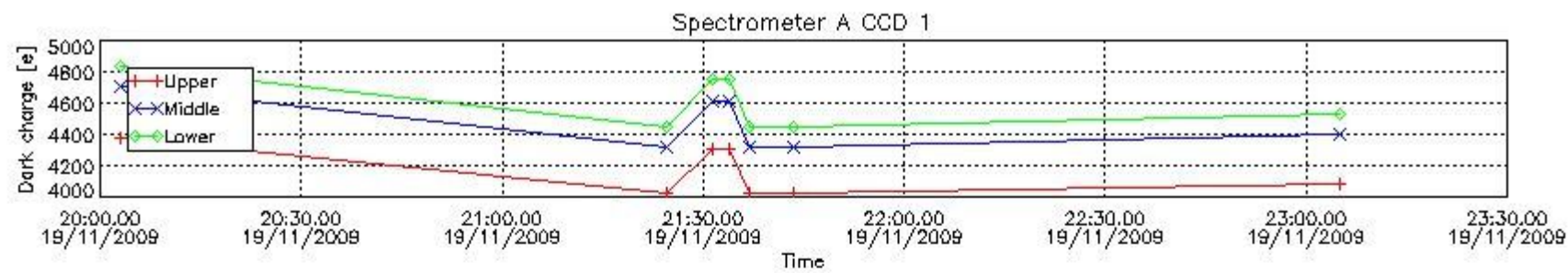
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20091119_200253_000000522084_00243_40377_3972.N1	DC map used
GOM_TRA_1PNPDE20091119_201143_000000492084_00243_40377_3973.N1	DC map used
GOM_TRA_1PNPDE20091119_201712_000000472084_00243_40377_3974.N1	DC map used
GOM_TRA_1PNPDE20091119_202350_000000412084_00243_40377_3975.N1	DC map used
GOM_TRA_1PNPDE20091119_202624_000000422084_00243_40377_3976.N1	DC map used
GOM_TRA_1PNPDE20091119_202806_000000492084_00243_40377_3977.N1	DC map used
GOM_TRA_1PNPDE20091119_203043_000000392084_00243_40377_3978.N1	DC map used
GOM_TRA_1PNPDE20091119_204847_000000432084_00243_40377_3979.N1	DC map used
GOM_TRA_1PNPDE20091119_205025_000000442084_00243_40377_3980.N1	DC map used
GOM_TRA_1PNPDE20091119_205150_000000522084_00243_40377_3981.N1	DC map used
GOM_TRA_1PNPDE20091119_205435_000000442084_00243_40377_3982.N1	DC map used
GOM_TRA_1PNPDE20091119_205634_000000342084_00243_40377_3983.N1	DC map used
GOM_TRA_1PNPDE20091119_210453_000000642084_00243_40377_3984.N1	DC map used
GOM_TRA_1PNPDE20091119_225410_000000442084_00244_40378_3984.N1	DC map with no T dep.

GOM_TRA_1PNPDE20091119_225542_000000432084_00244_40378_3985.N1	DC map used
GOM_TRA_1PNPDE20091119_230504_000000442084_00244_40378_3986.N1	DC map used

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



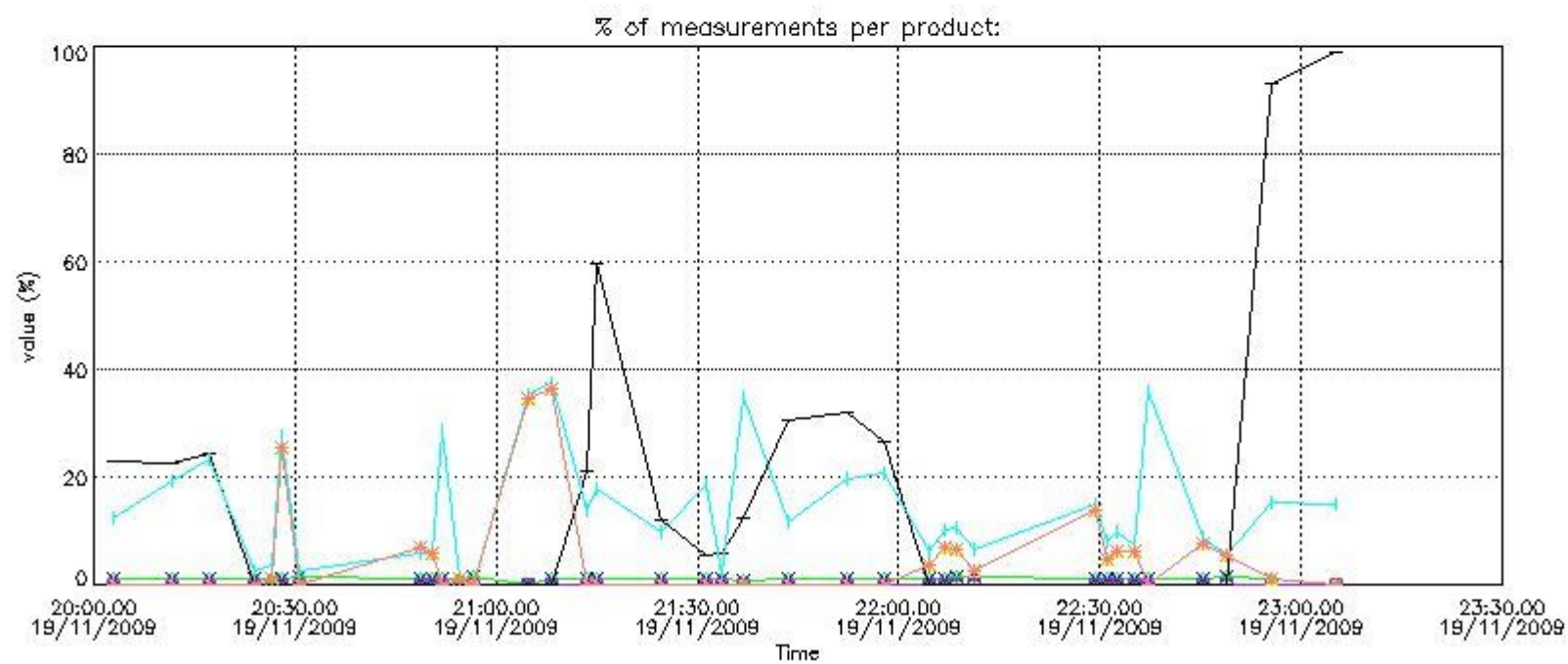
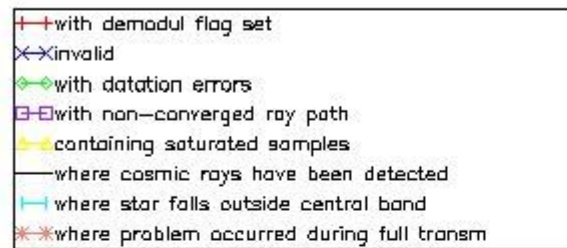
5. Demodulation flag and quality information monitoring

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.

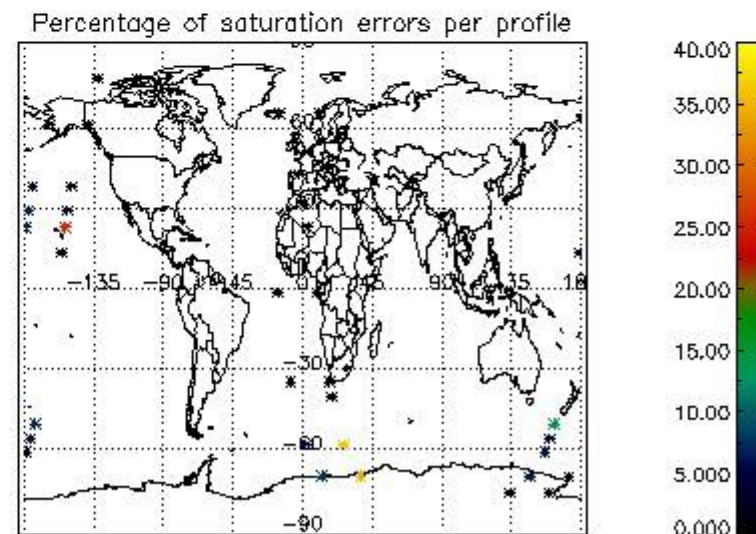
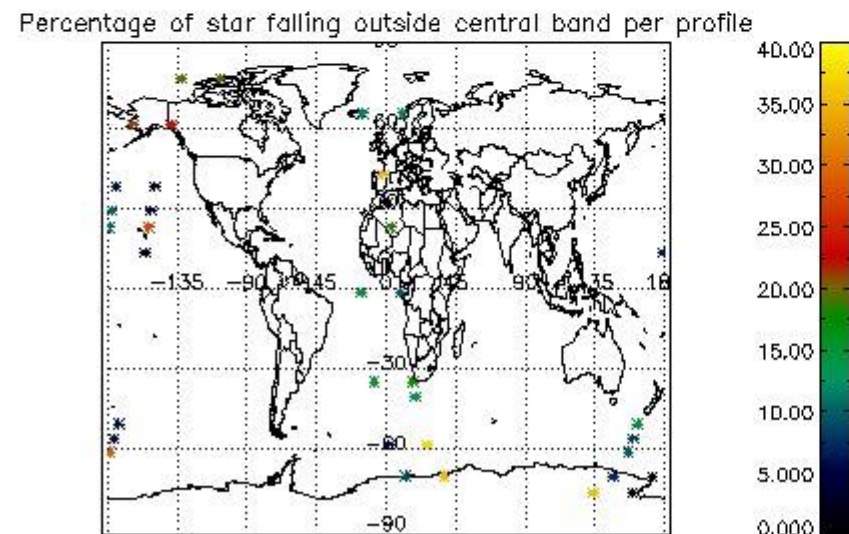
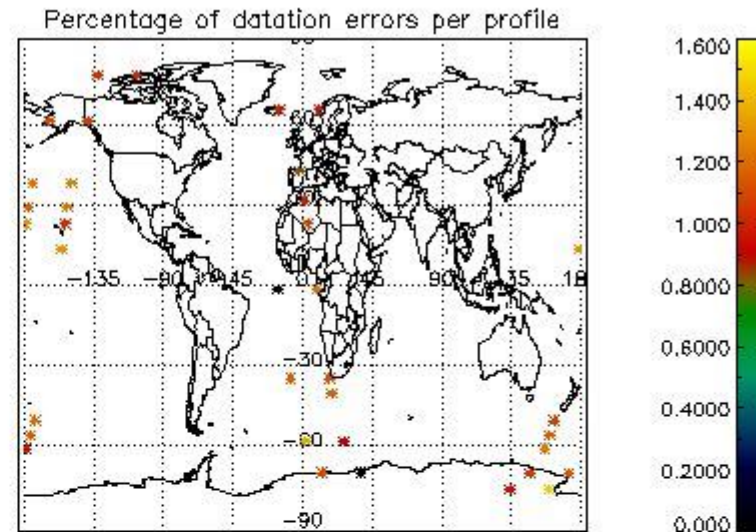
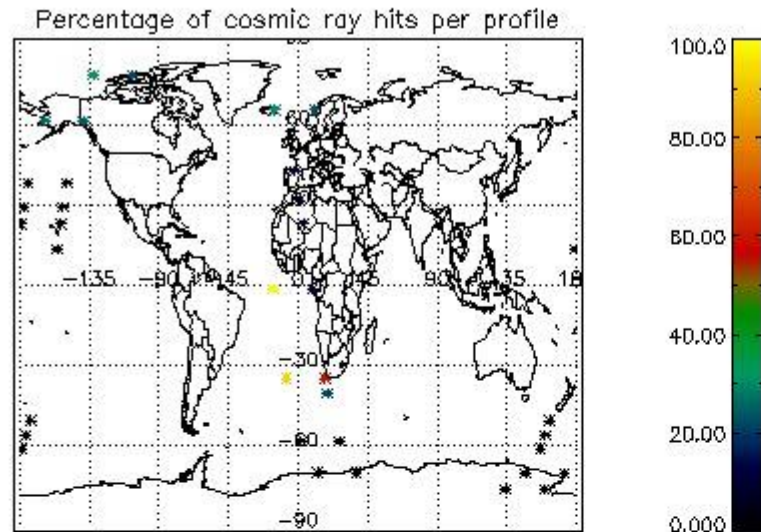
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	33.0508 %
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)



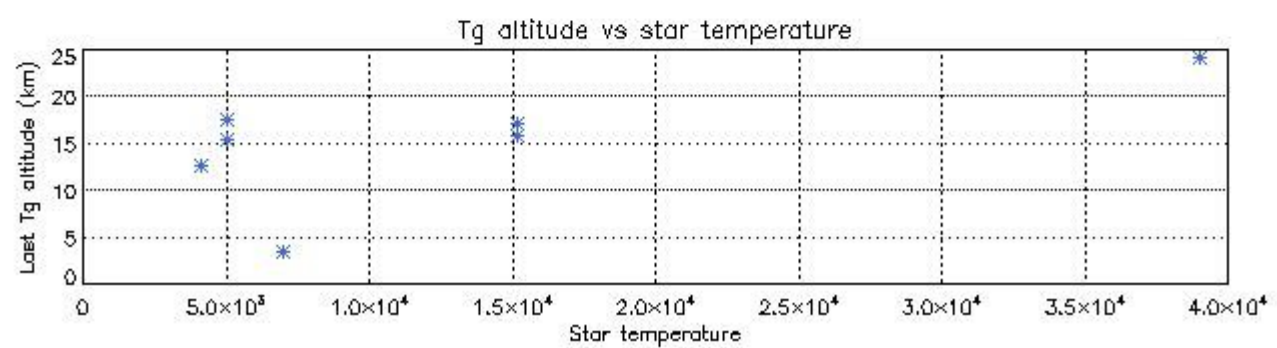
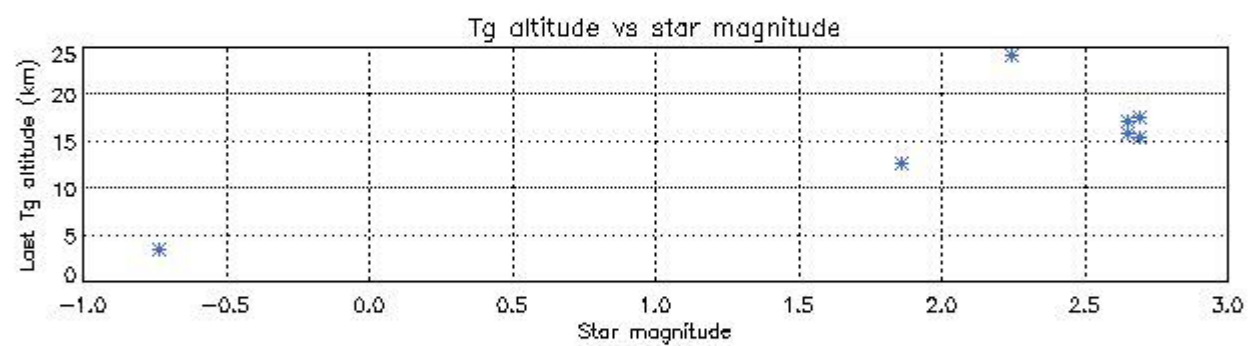
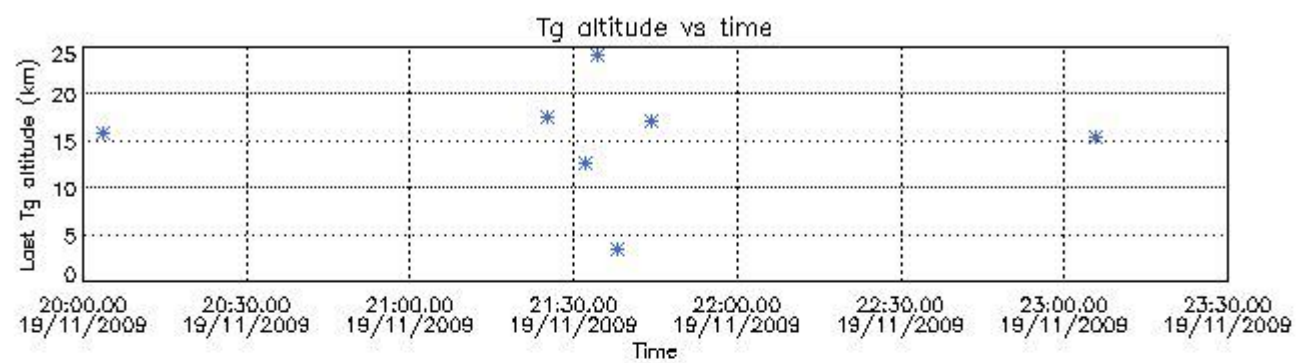
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.109	18.391	12.914
St. deviation:	5.9391	5.8283	1.0049
Maximum:	24.095	28.580	14.223
Minimum:	3.3609	3.9347	11.595
Number of data:	26.000	68.000	5.0000

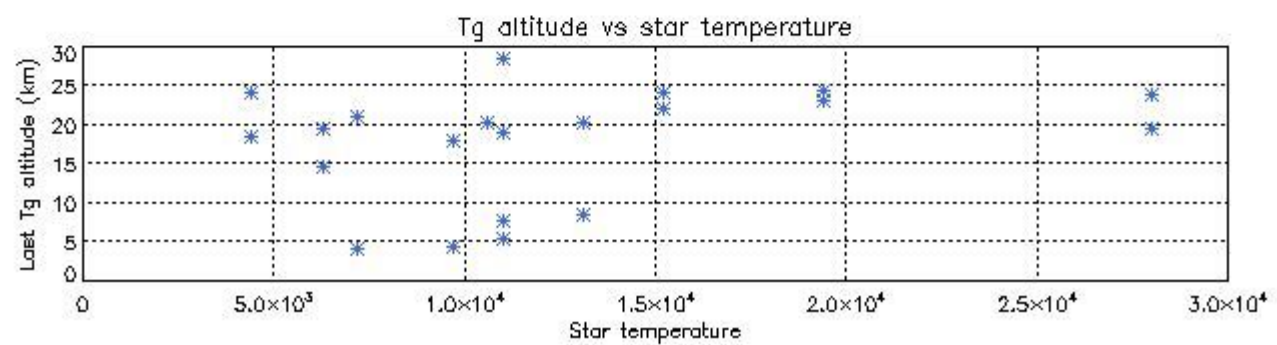
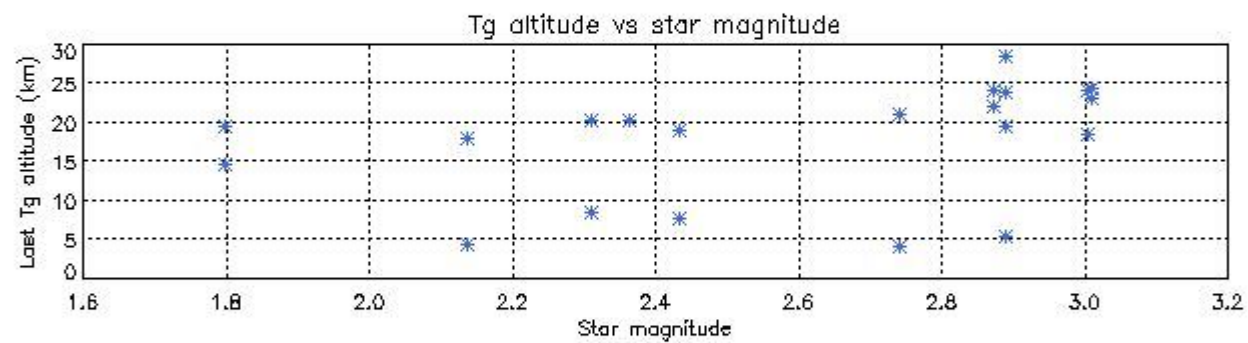
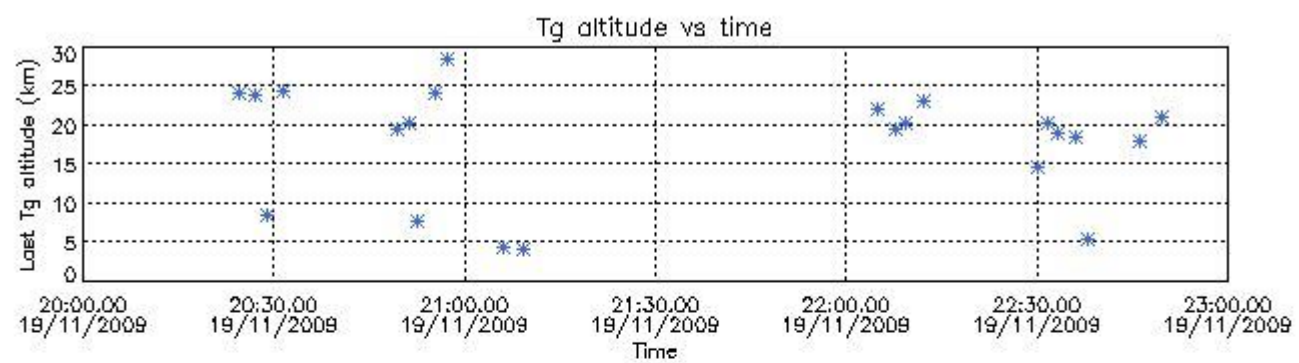
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



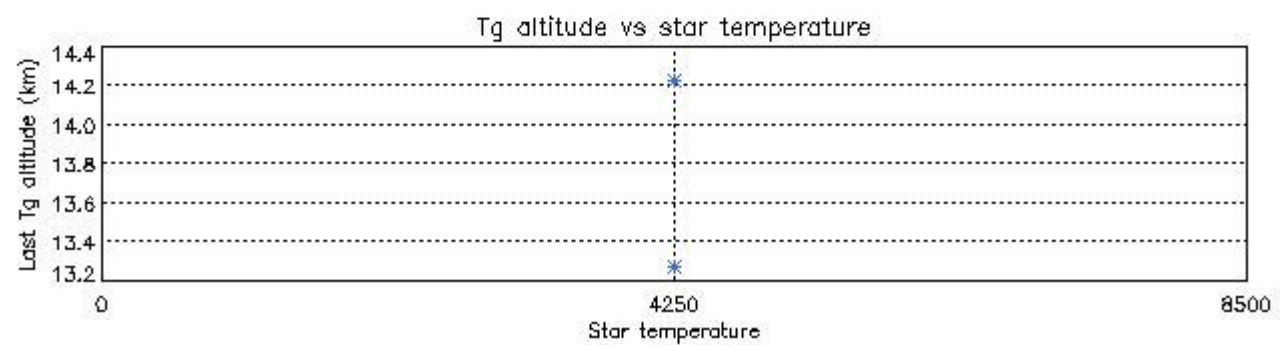
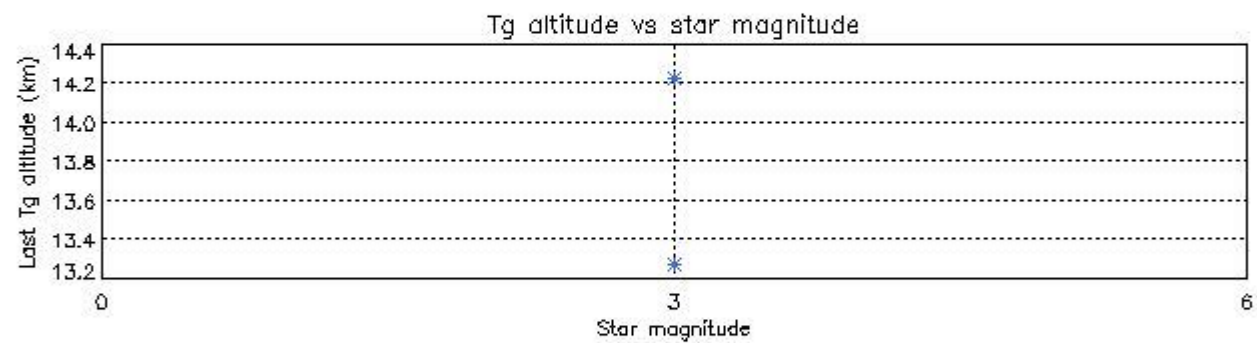
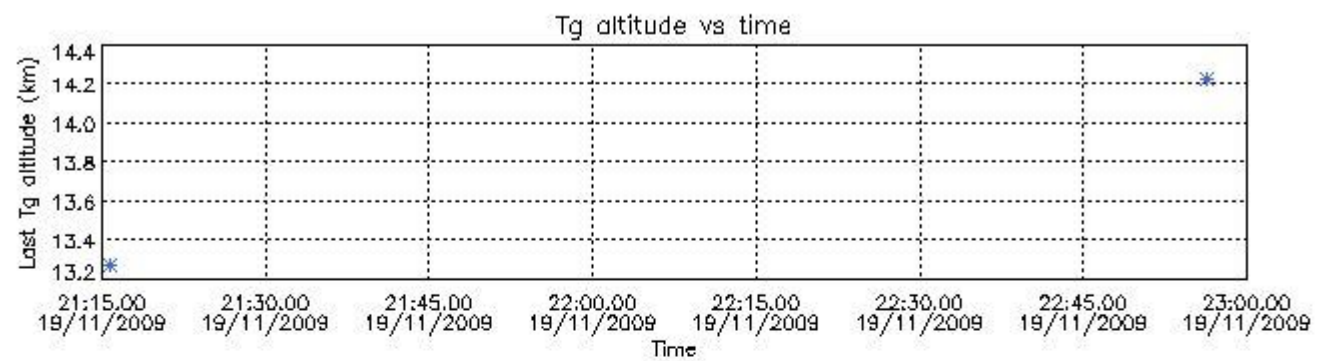
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

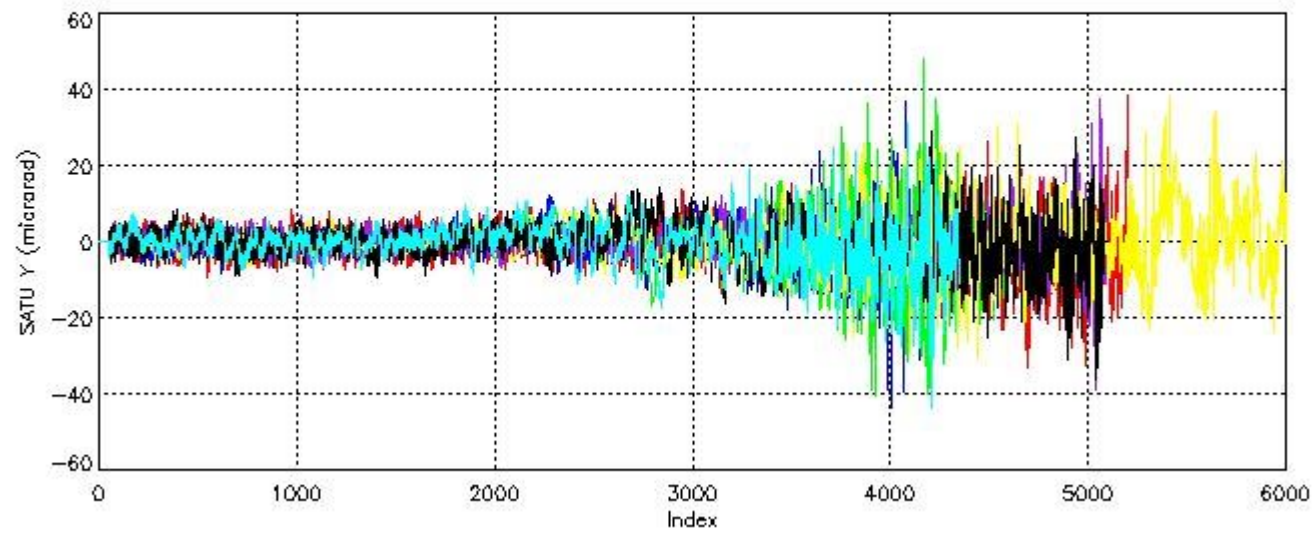
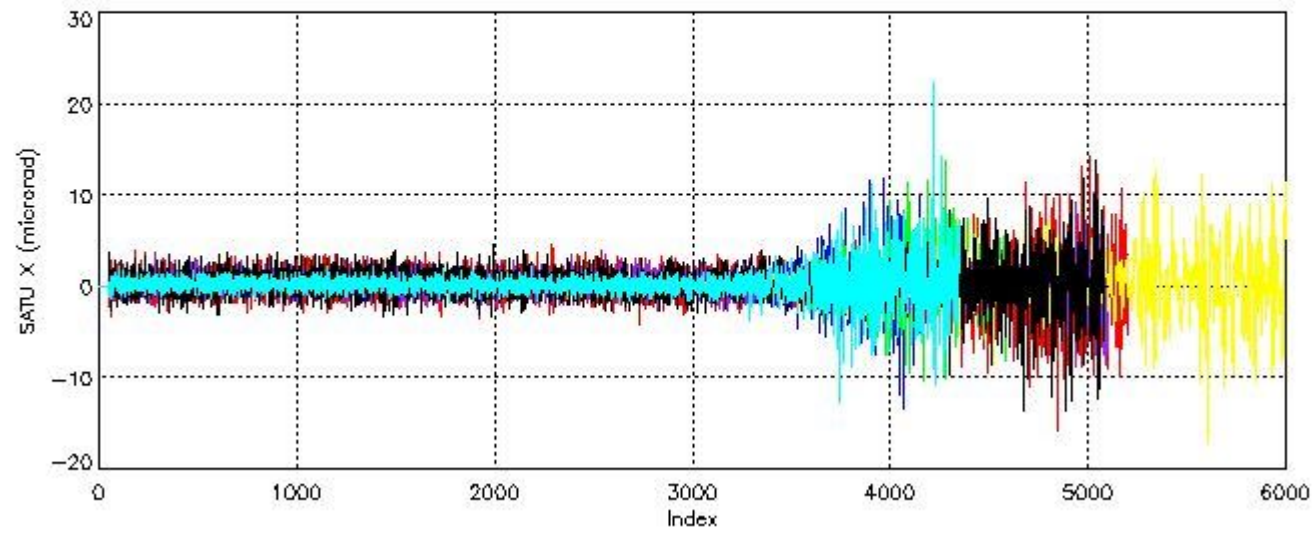


7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

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

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.29808	-0.29284	0.16539	-0.36460
St. deviation:	0.63233	2.5916	1.0618	2.6920
Maximum:	4.4000	11.000	6.5000	13.400
Minimum:	-4.3000	-27.100	-6.7000	-15.500

Number of data:	28000.	28000.	65250.	65250.
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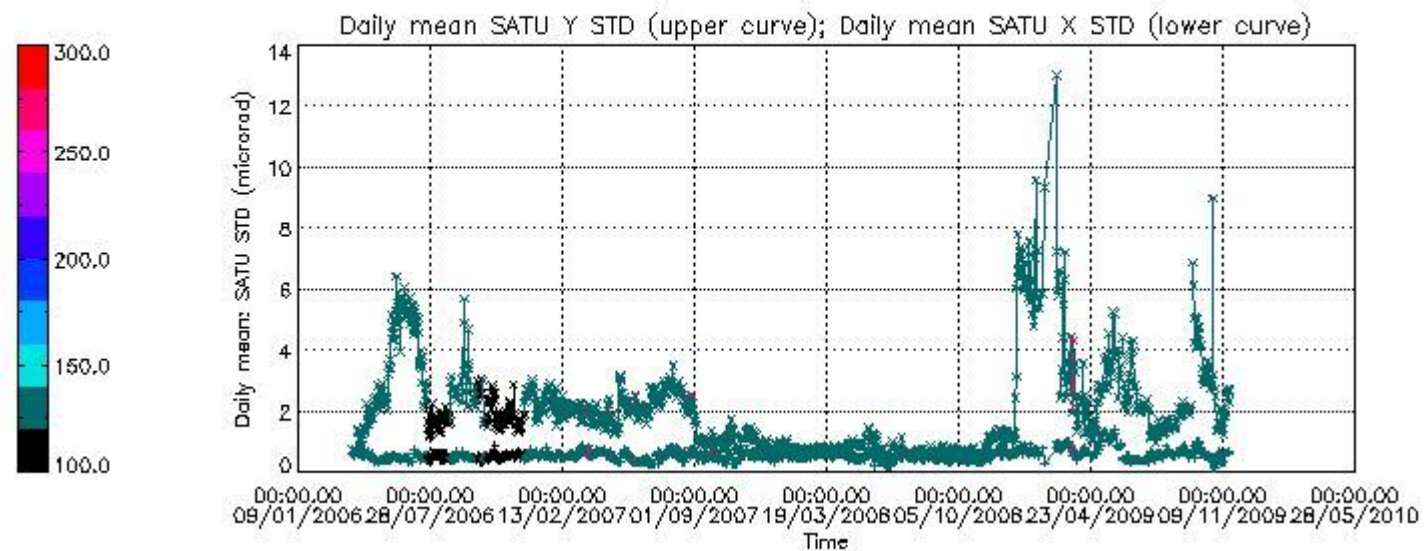
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

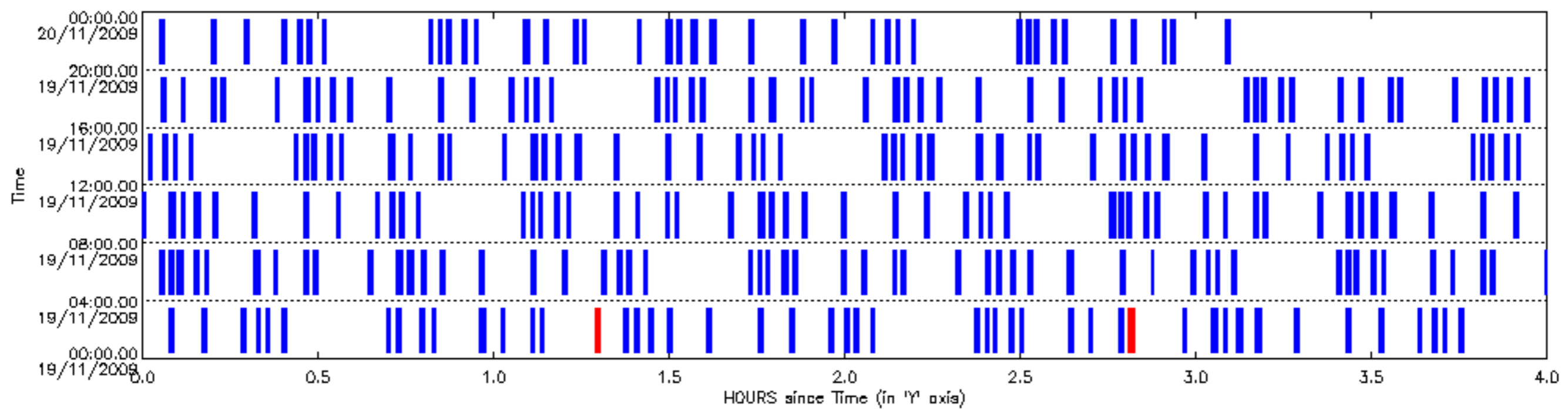
Lower curve: STD of SATU X axis

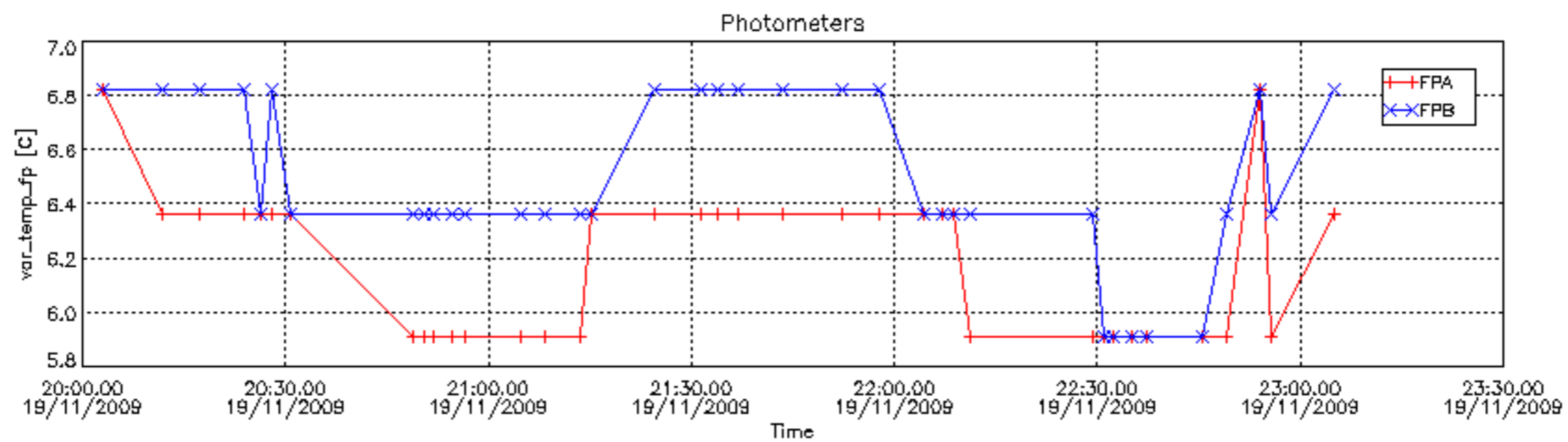
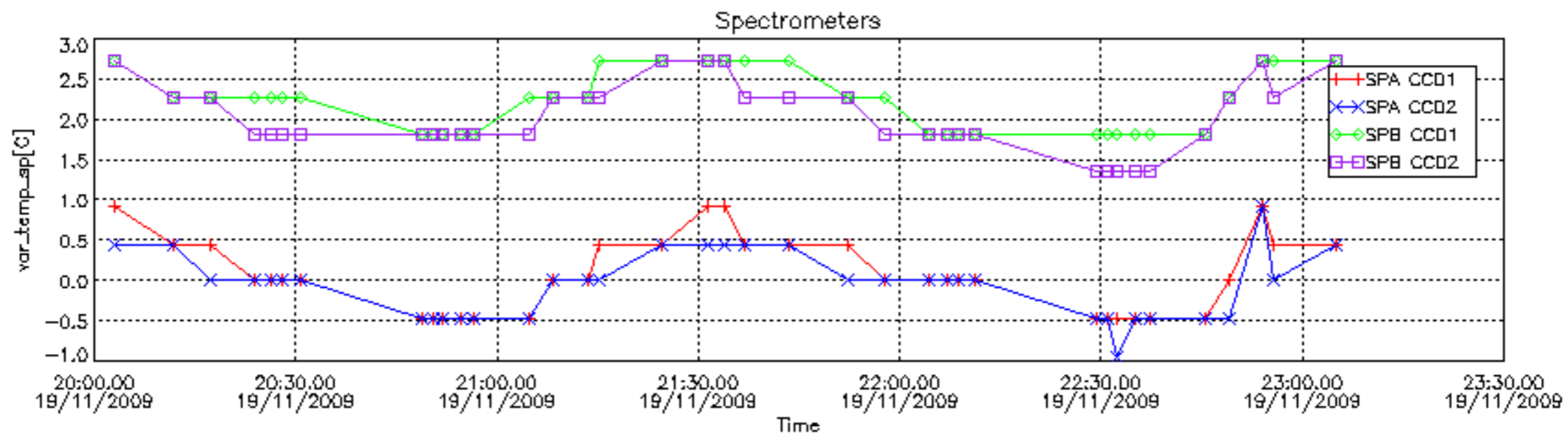


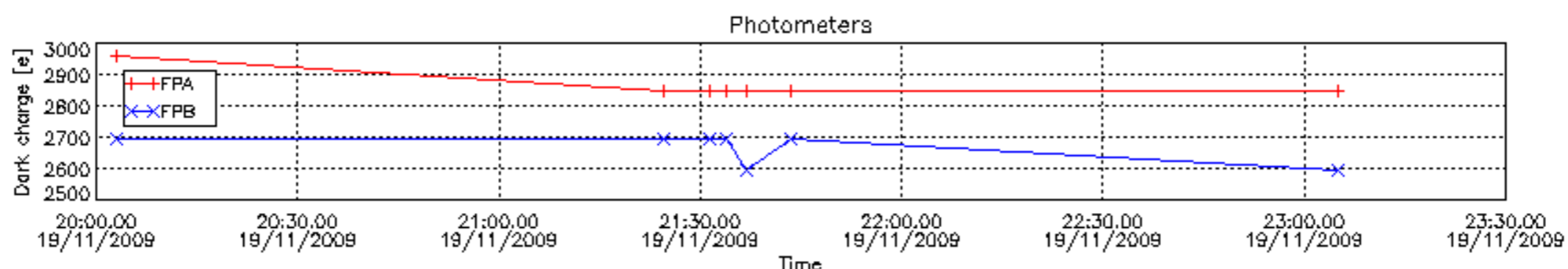
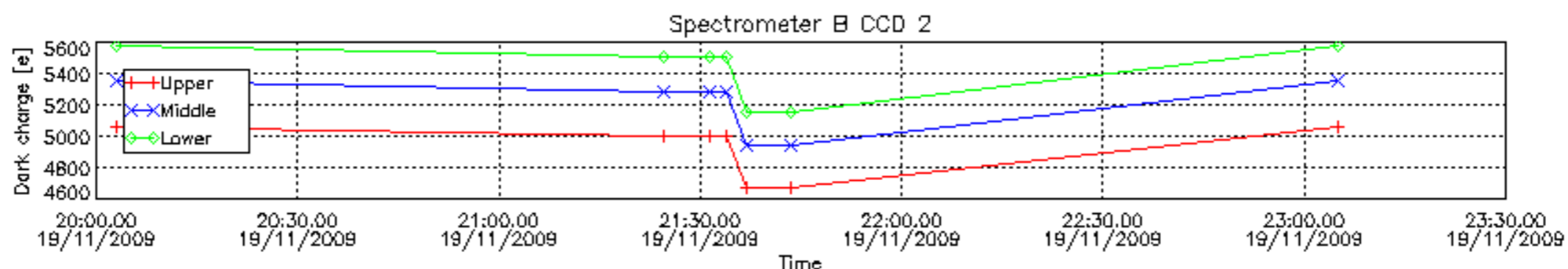
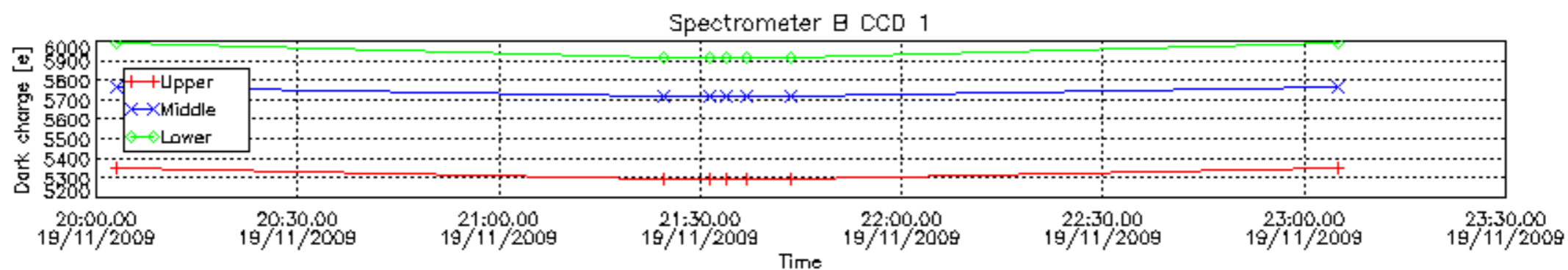
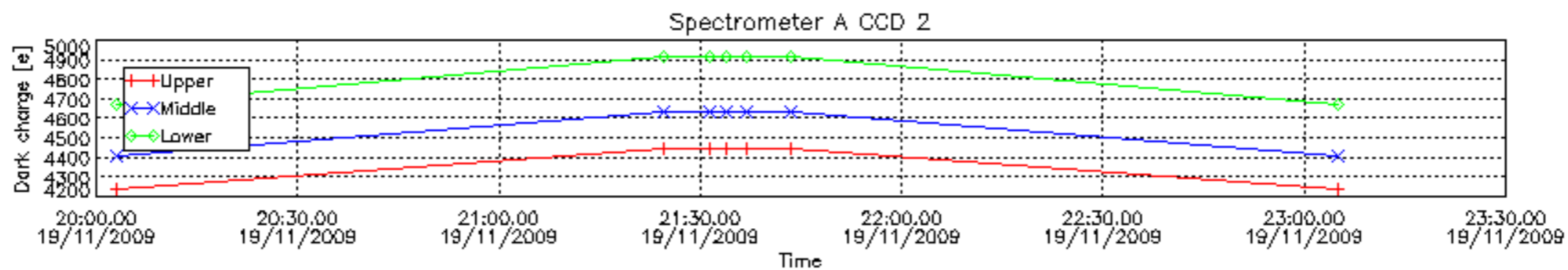
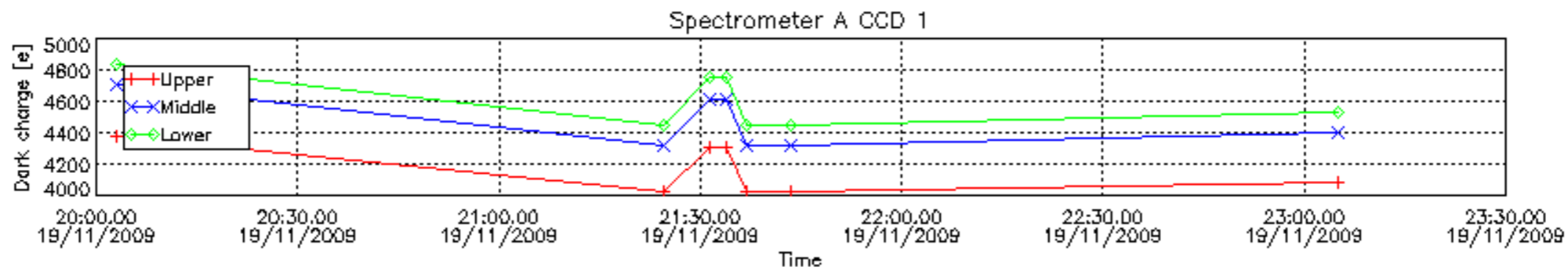
8. Auxiliary Data Files used for the production reported in section 2.4

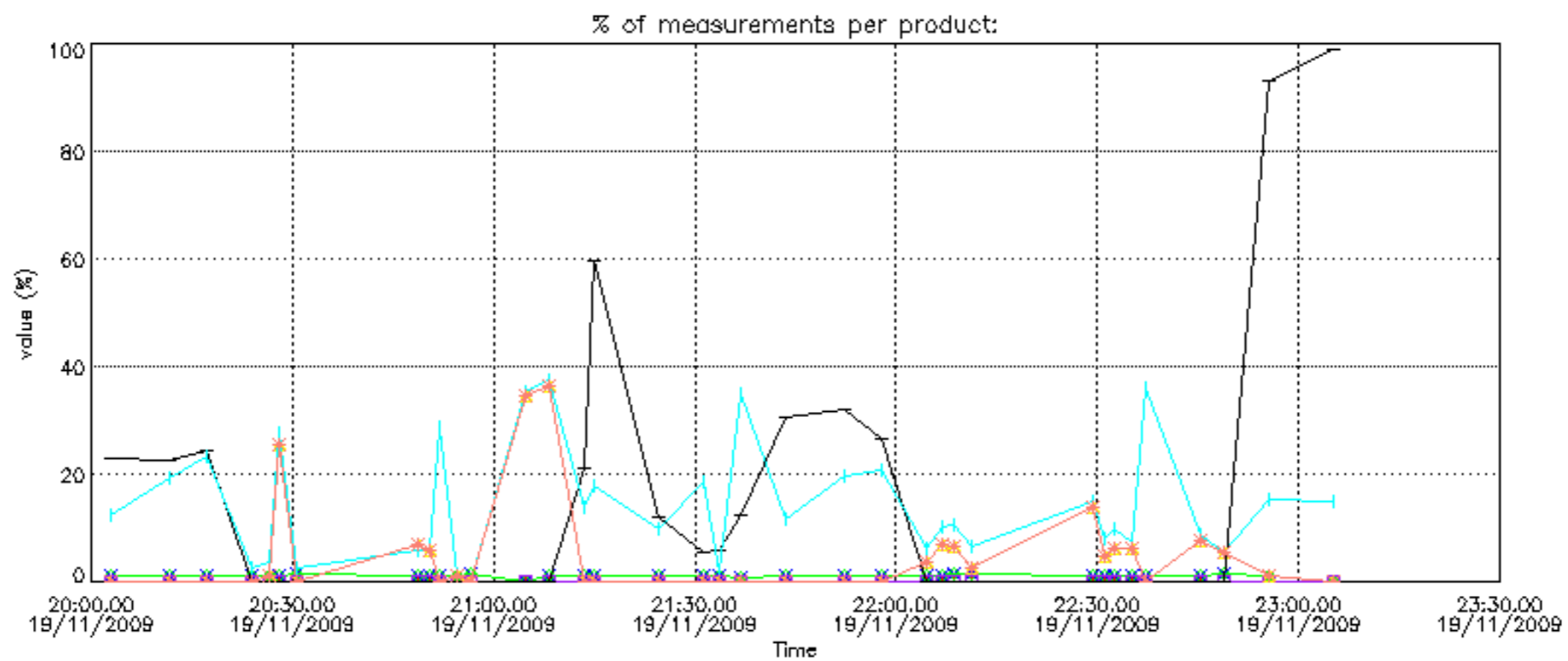
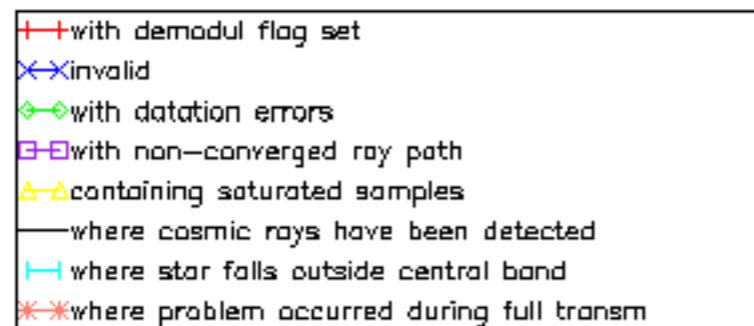
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	19-NOV-2009 00:04:31
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091116_112409_20091114_000000_20100101_000000	1	19-NOV-2009 00:04:31
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	19-NOV-2009 00:04:31
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	19-NOV-2009 00:04:31
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	19-NOV-2009 00:04:31
ECMWF_FILE	AUX_ECF_AXNECM20091118_064110_20091118_210000_20091119_090000	1	19-NOV-2009 00:04:31
ECMWF_FILE	AUX_ECF_AXNECM20091118_182111_20091119_030000_20091119_150000	44	19-NOV-2009 04:02:50
ECMWF_FILE	AUX_ECA_AXNECM20091119_062111_20091118_210000_20091119_090000	64	19-NOV-2009 05:43:26
ECMWF_FILE	AUX_ECF_AXNECM20091119_064112_20091119_150000_20091120_030000	84	19-NOV-2009 20:02:53
ECMWF_FILE	AUX_ECF_AXNECM20091119_064112_20091119_210000_20091120_090000	97	19-NOV-2009 21:08:23
OPTIONAL_ECMWF_FILE	MISSING	1	19-NOV-2009 00:04:31
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091118_231945_000057382084_00230_40364_9194.N1	1	19-NOV-2009 00:04:31
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091119_010111_20091118_183520_20091128_200132	13	19-NOV-2009 01:06:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091119_022024_000054192084_00232_40366_9196.N1	27	19-NOV-2009 02:25:15
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091119_035602_000057382084_00233_40367_9197.N1	44	19-NOV-2009 04:02:50
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091119_053659_000057382084_00234_40368_9198.N1	64	19-NOV-2009 05:43:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091119_195743_000038252084_00243_40377_9199.N1	84	19-NOV-2009 20:02:53
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091119_210128_000063762084_00243_40377_9200.N1	97	19-NOV-2009 21:08:23
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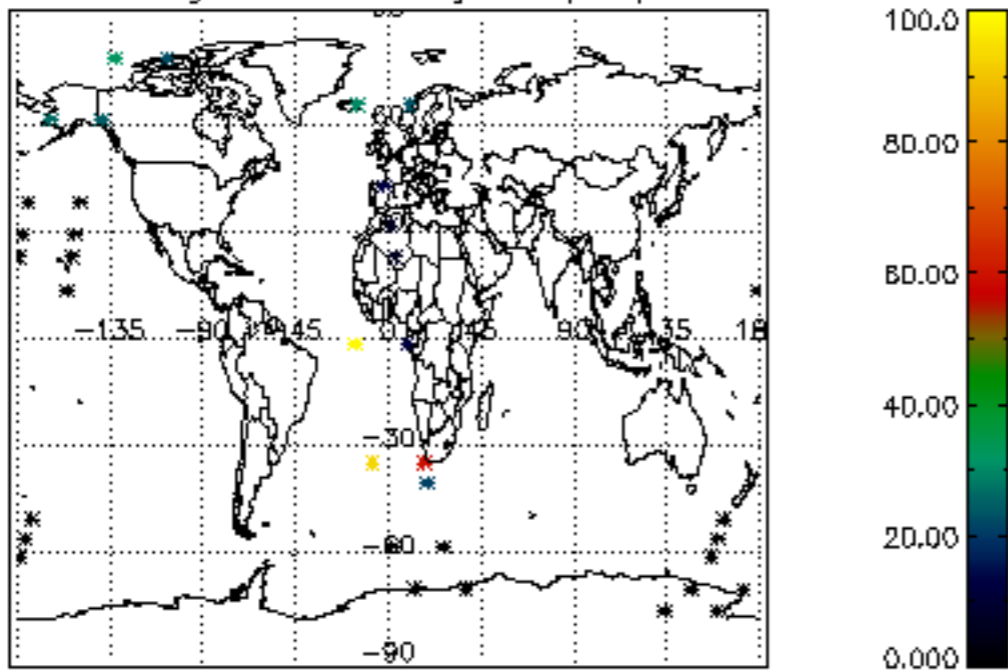




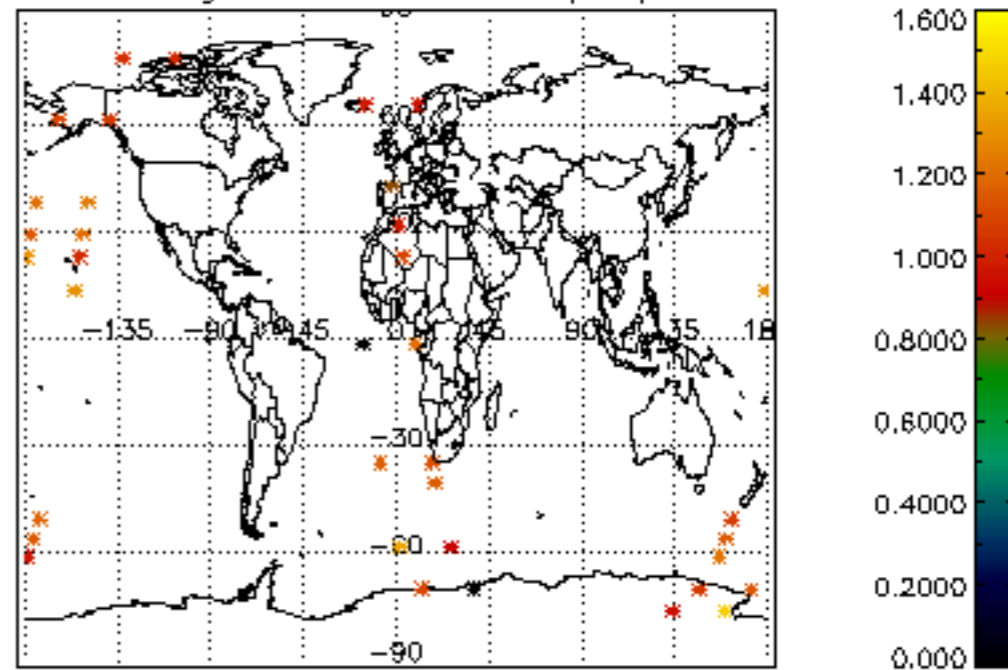




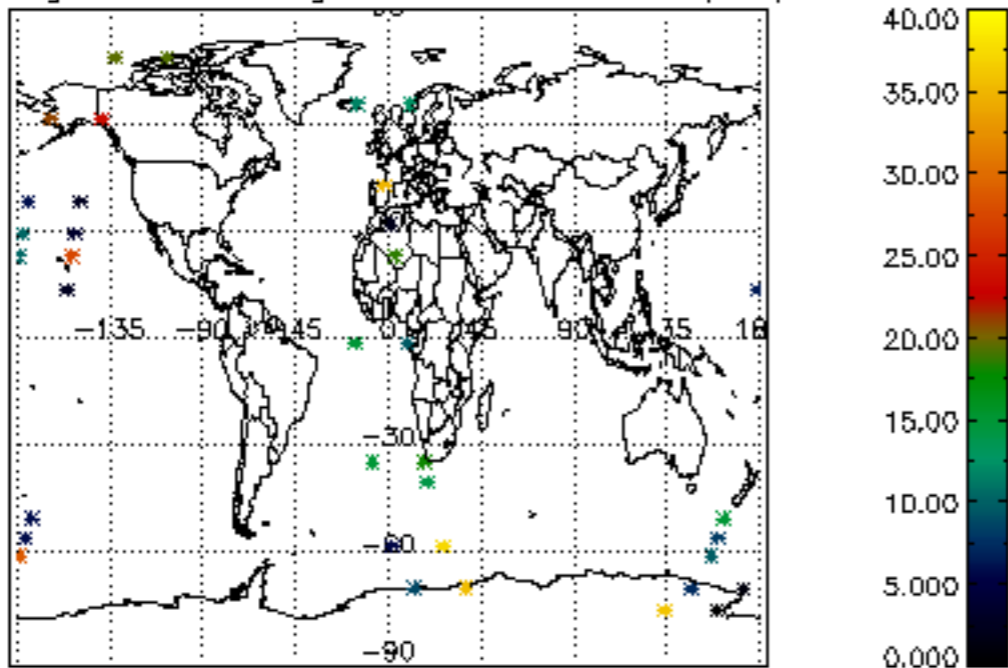
Percentage of cosmic ray hits per profile



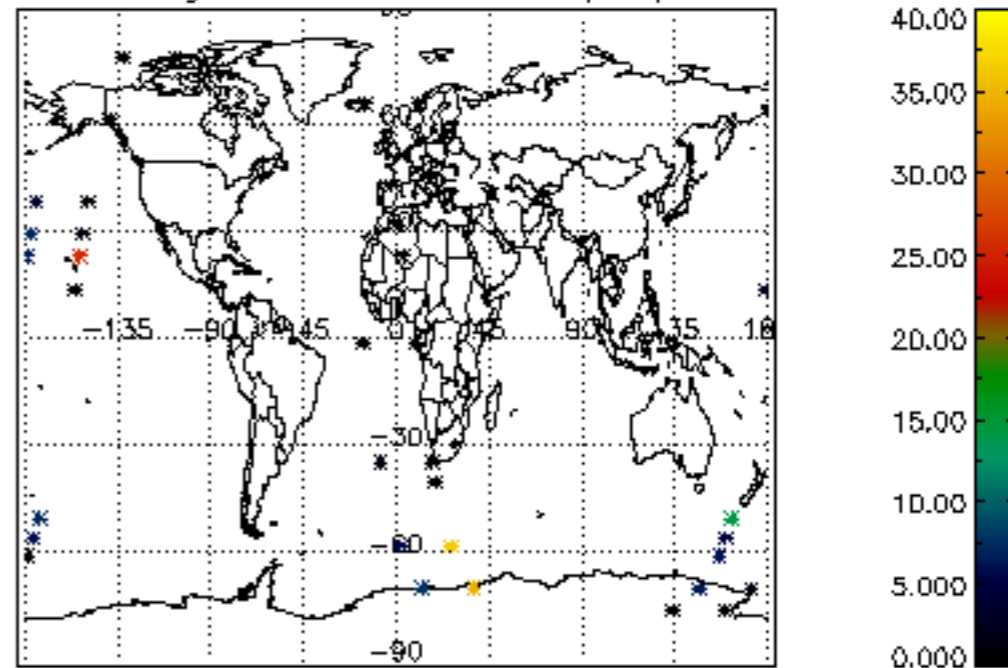
Percentage of datation errors per profile



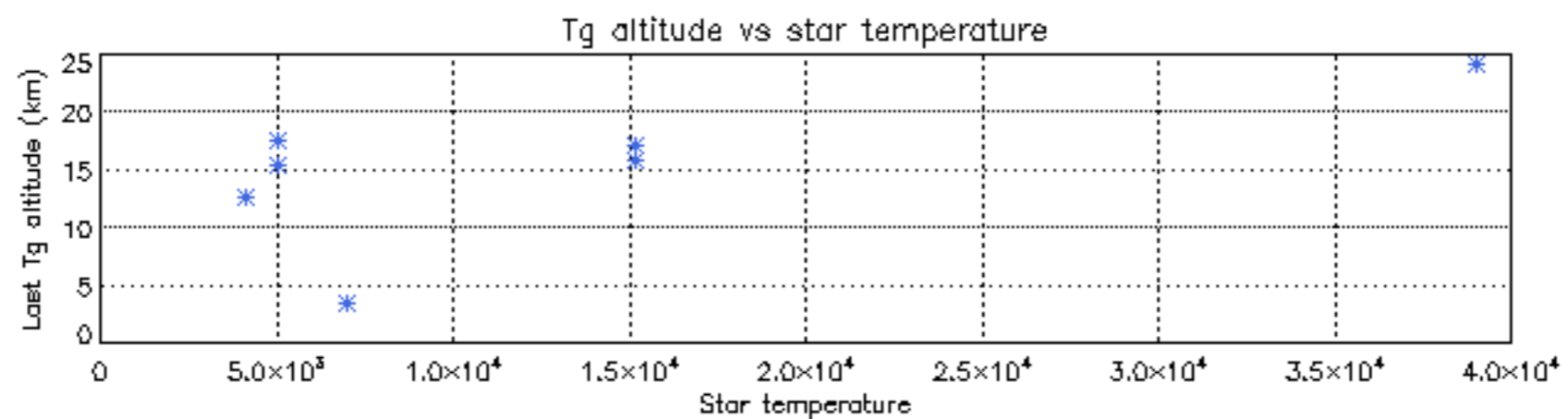
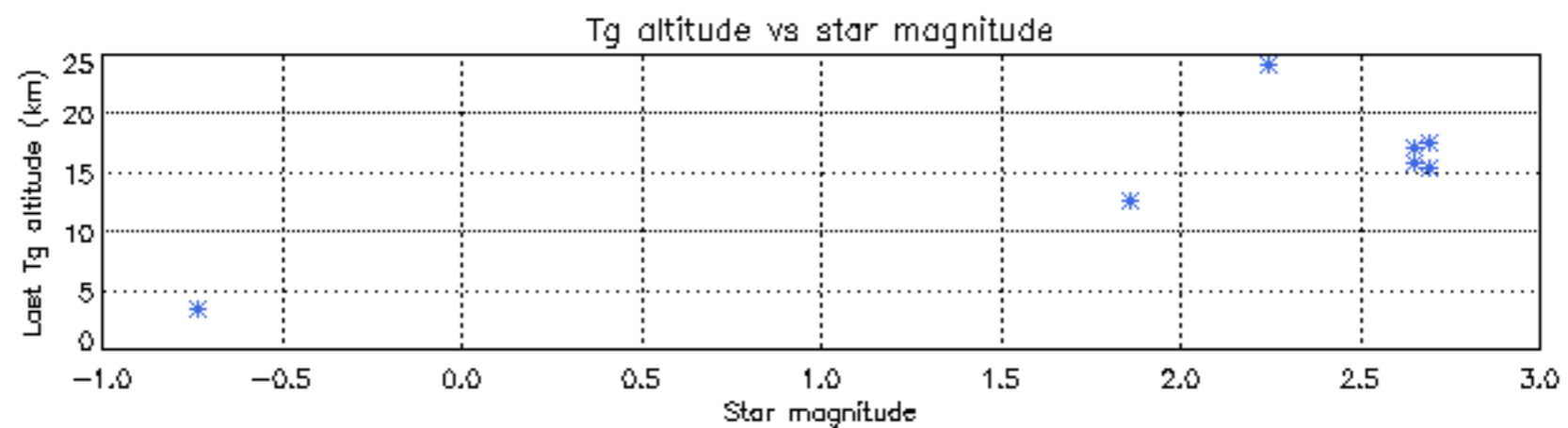
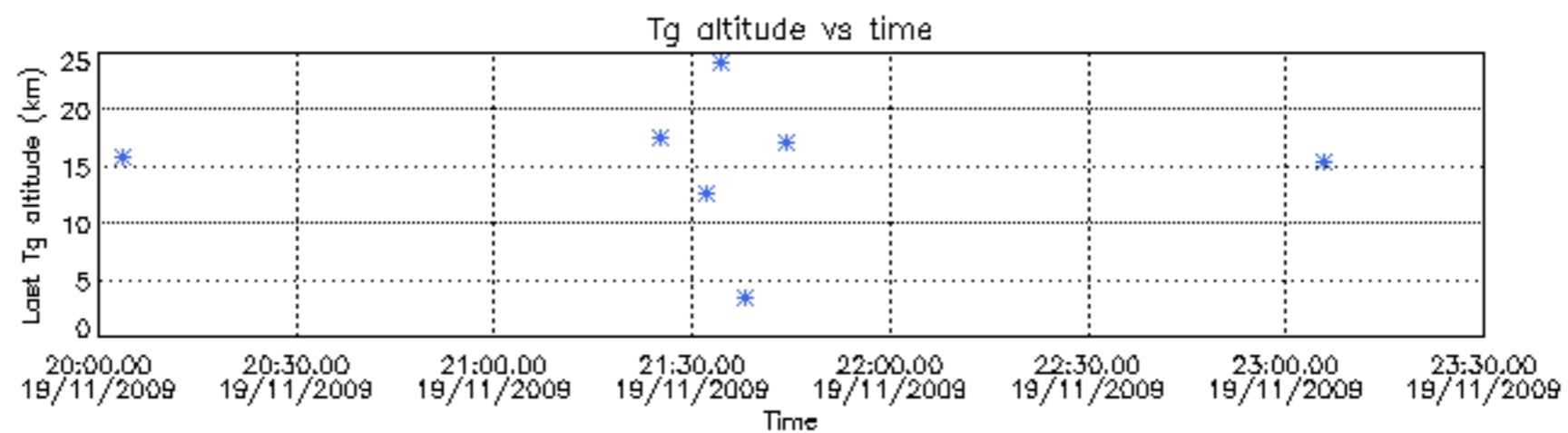
Percentage of star falling outside central band per profile



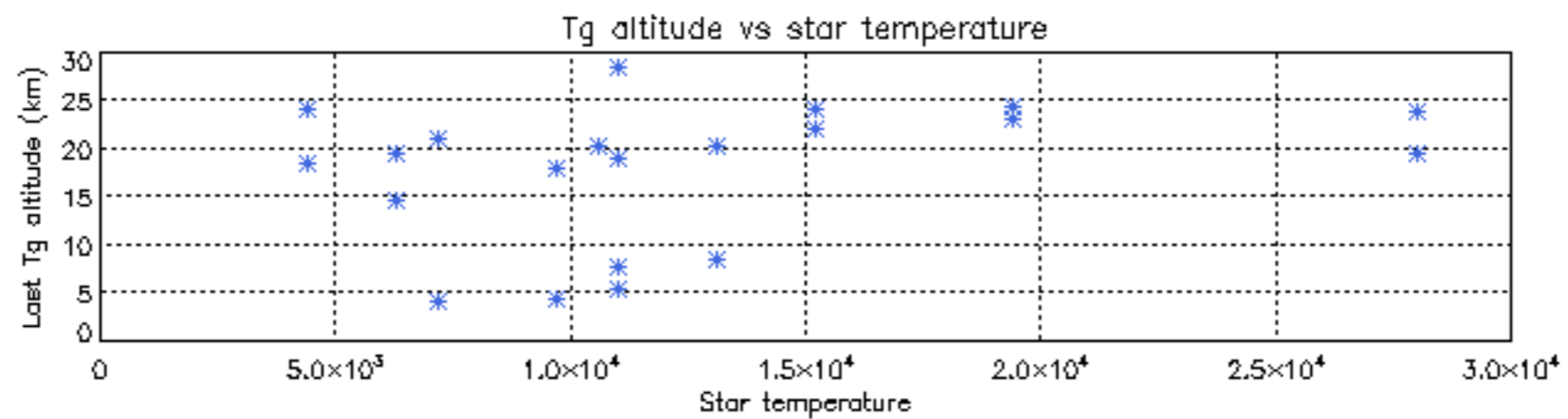
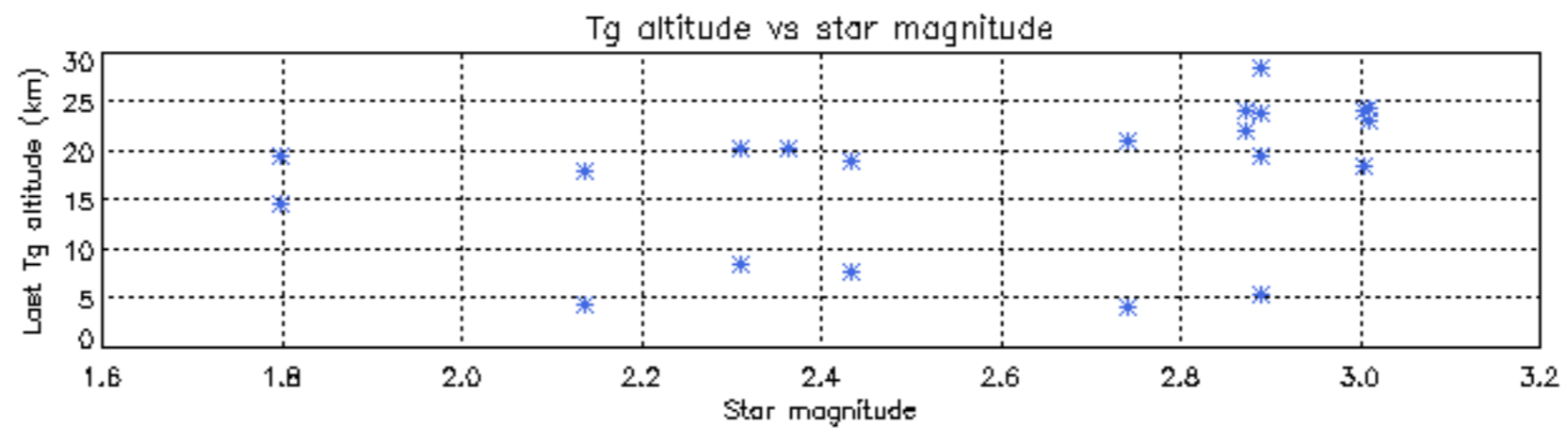
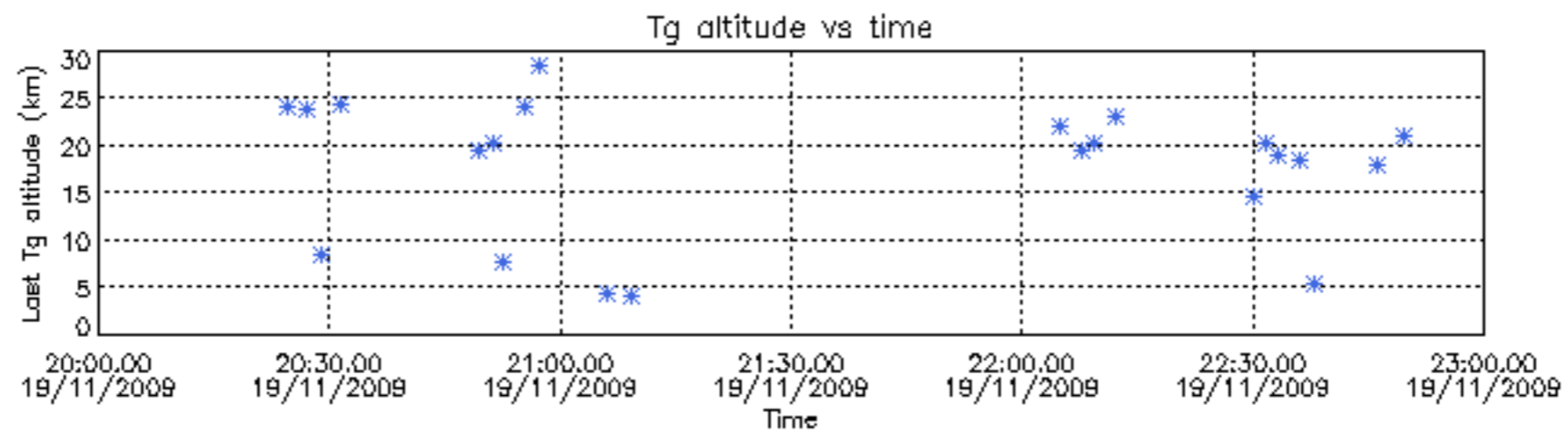
Percentage of saturation errors per profile



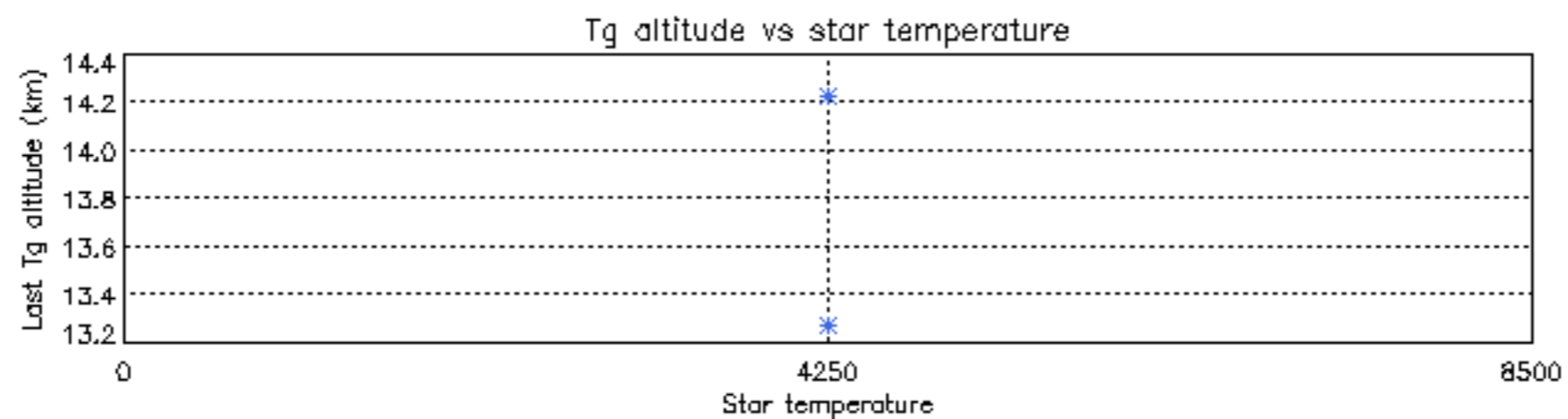
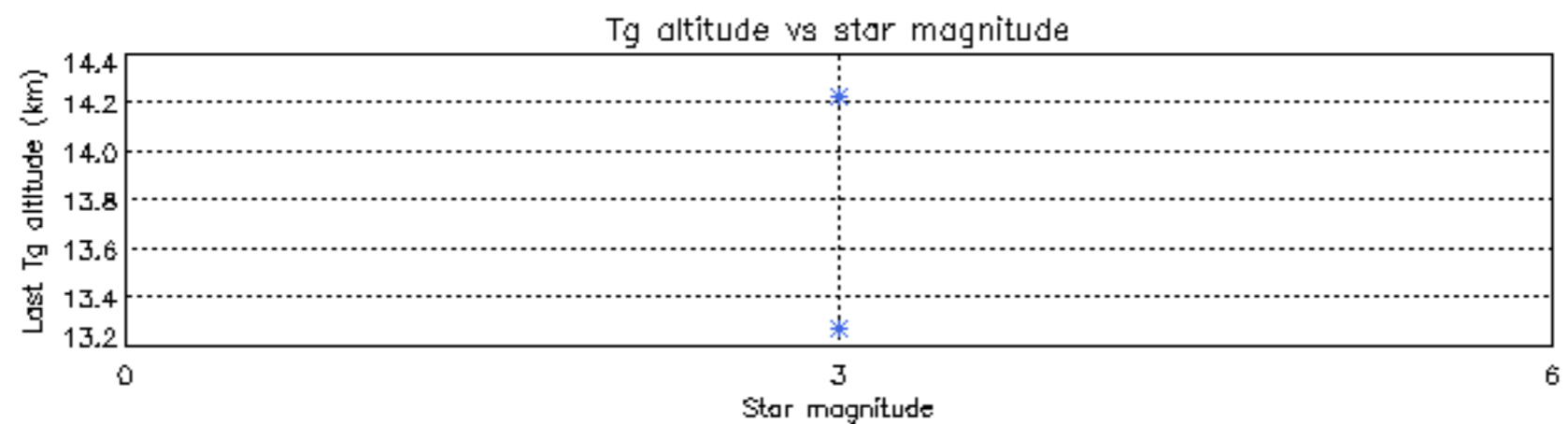
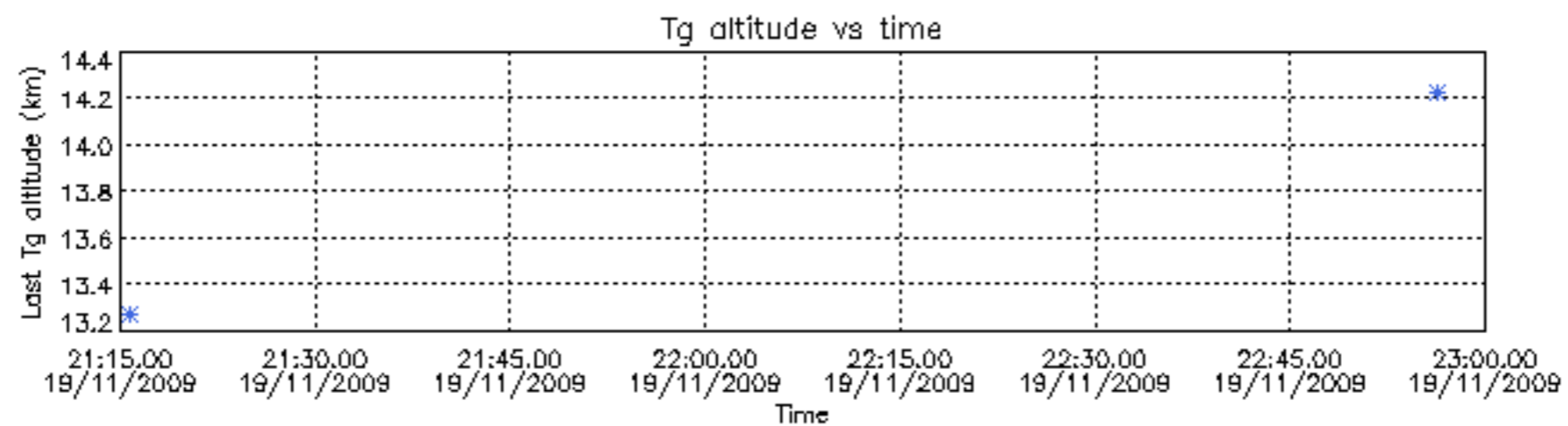
Tangent altitude at which the star is lost

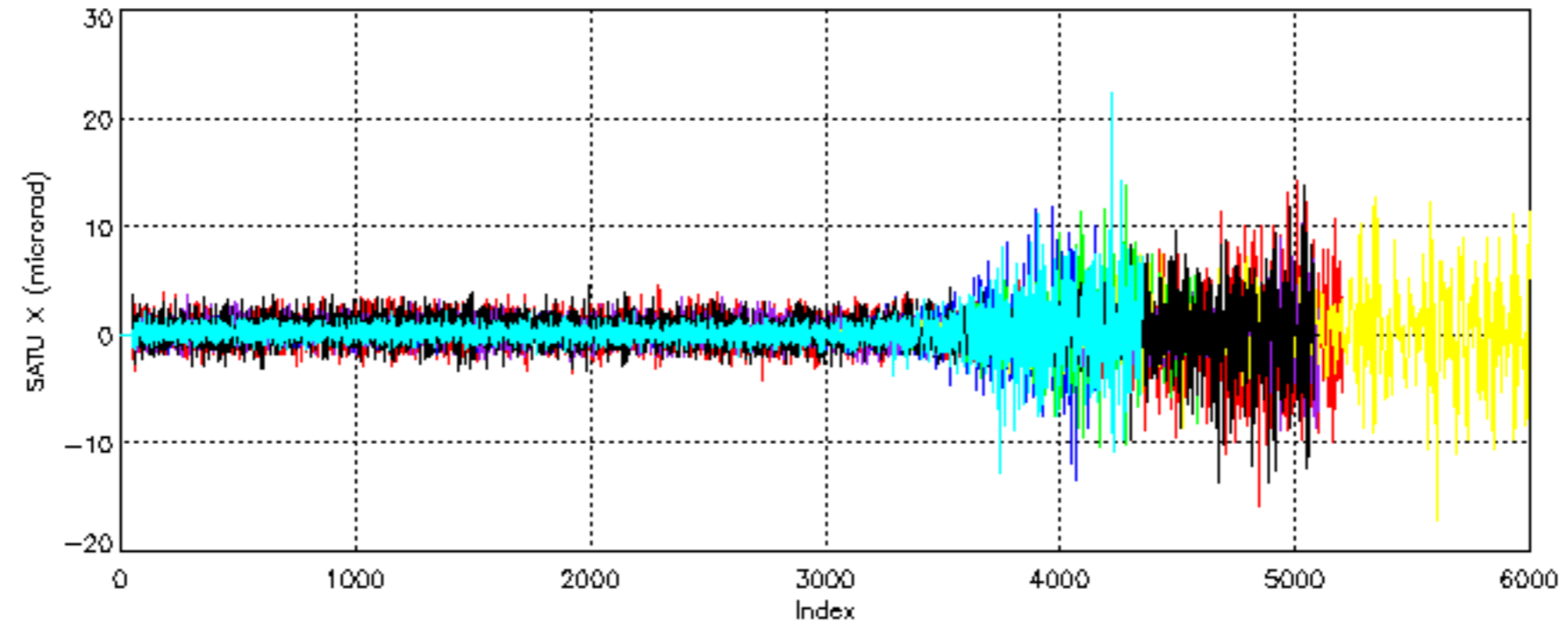


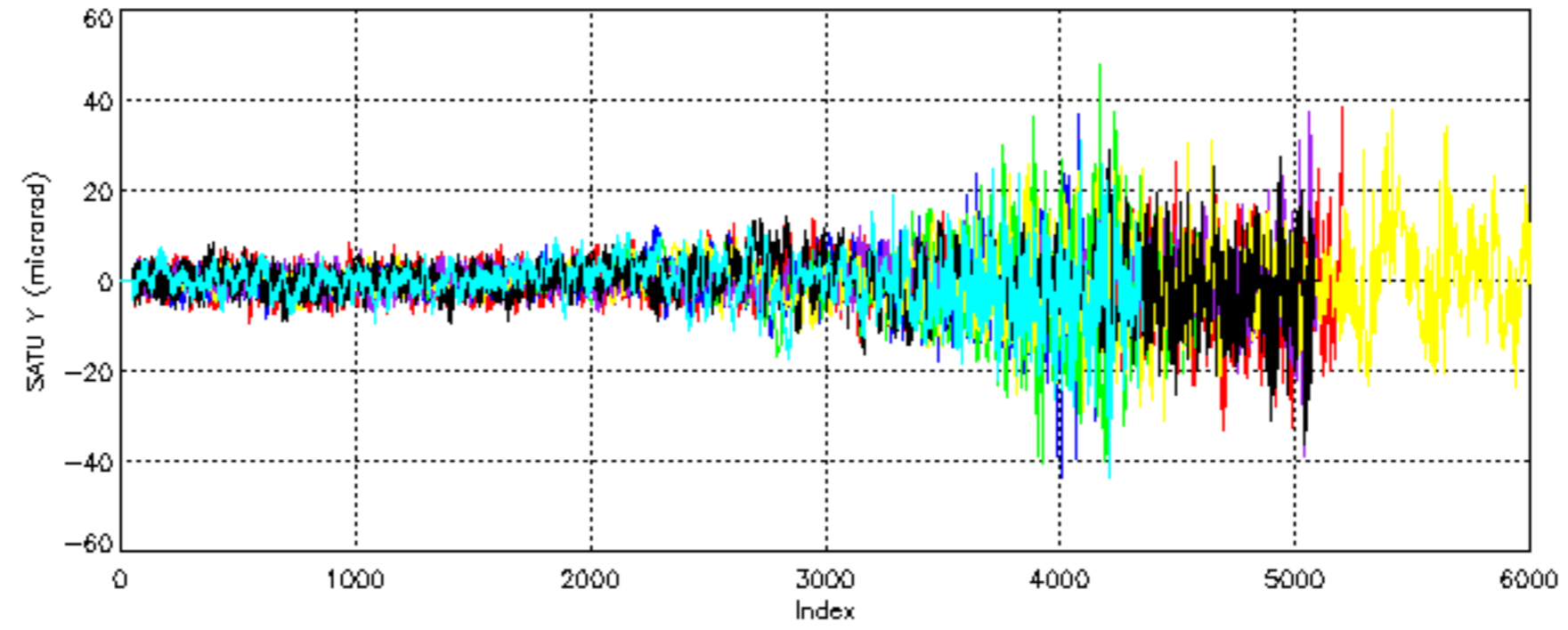
Tangent altitude at which the star is lost

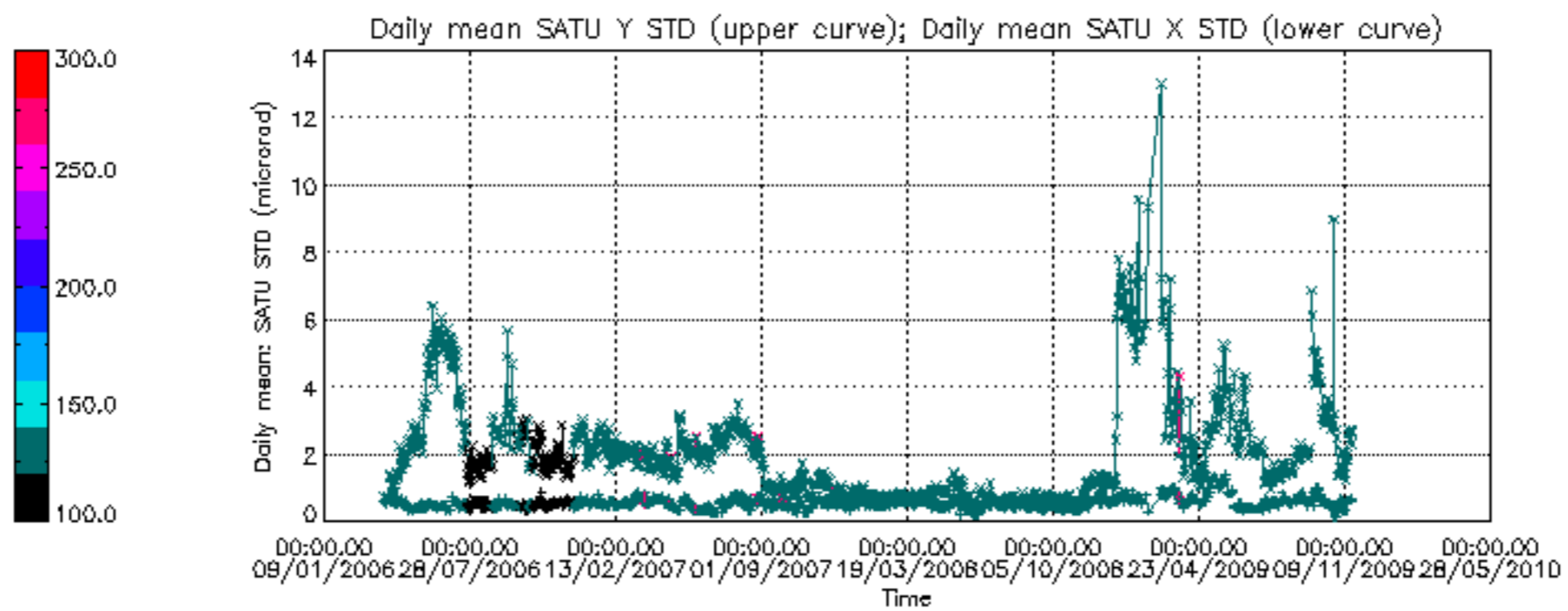


Tangent altitude at which the star is lost









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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
 14; 4008.4; 01-NOV-2009 01:50:03; Bright; 38.0; 82; 48Bet UMa ; 2.37; 10600;occ; 76; 0;40108
 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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 12; 2933.8; 01-NOV-2009 03:12:44; Bright; 42.5; 160; 23Gam Per ; 2.93; 4700;occ; 85; 0;40109
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 3; -1806.5; 01-NOV-2009 03:34:20; Bright; 47.5; 174; 52Psi UMa ; 3.00; 4400;occ; 95; 0;40109
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 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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 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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 14; 2538.3; 01-NOV-2009 04:46:45; Bright; 40.0; 173; 4Bet Tri ; 3.00; 8900;occ; 80; 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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 3; 2266.6; 04-NOV-2009 14:51:33; Bright; 39.5; 105; 6Bet Ari ; 2.64; 8900;occ; 79; 0;40159
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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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 4; 2522.4; 05-NOV-2009 11:03:00; Bright; 37.0; 173; 4Bet Tri ; 3.00; 8900;occ; 74; 0;40171
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 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
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 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
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 13; 6216.4; 05-NOV-2009 13:45:10; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;40172
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 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
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 4; 2521.9; 05-NOV-2009 16:04:48; Bright; 37.5; 173; 4Bet Tri ; 3.00; 8900;occ; 75; 0;40174
 5; 2645.1; 05-NOV-2009 16:06:51; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;40174
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16; 6447.6; 05-NOV-2009 18:50:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40175
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9; 4228.9; 07-NOV-2009 20:31:49; Bright; 39.5; 174; 52Psi UMA ; 3.00; 4400;occ; 79; 0;40205
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 2; 1638.2; 13-NOV-2009 20:00:07; Dark ; 43.5; 165; 34Gam Eri ; 2.95; 3200;occ; 87; 0;40291
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11; 4224.7; 13-NOV-2009 20:43:14; Bright; 34.5; 174; 52Psi UMa ; 3.00; 4400;occ; 69; 0;40291
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 6; 1062.1; 13-NOV-2009 21:31:07; Dark ; 53.5; 108; Alp Col ; 2.65; 15200;occ; 107; 0;40292
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16; 4224.7; 14-NOV-2009 00:04:26; Bright; 35.0; 174; 52Psi UMa ; 3.00; 4400;occ; 70; 0;40293
17; 4730.1; 14-NOV-2009 00:12:51; Bright; 37.5; 96; 68Del Leo ; 2.56; 9300;occ; 75; 0;40293
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 8; 415.7; 13-NOV-2009 07:55:33; Dark ; 54.5; 70; Zet Pup ; 2.25; 39000;occ; 109; 0;40284
 9; 653.9; 13-NOV-2009 07:59:32; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;40284
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 8; 3888.1; 13-NOV-2009 08:53:26; Bright; 42.5; 36; 50Alp UMa ; 1.80; 6300;occ; 85; 0;40284
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 11; 4726.9; 13-NOV-2009 09:07:25; Bright; 46.0; 96; 68Del Leo ; 2.56; 9300;occ; 92; 0;40284
 12; 5951.8; 13-NOV-2009 09:27:50; Dark ; 40.5; 113; Mu Vel ; 2.69; 5000;occ; 81; 0;40284
 13; 6228.8; 13-NOV-2009 09:32:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40284
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 15; 6452.9; 13-NOV-2009 09:36:11; Dark ; 55.0; 70; Zet Pup ; 2.25; 39000;occ; 110; 0;40284
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 17; 7093.2; 13-NOV-2009 09:46:51; Dark ; 49.0; 108; Alp Col ; 2.65; 15200;occ; 98; 0;40284
 18; 7674.1; 13-NOV-2009 09:56:32; Dark ; 53.5; 165; 34Gam Eri ; 2.95; 3200;occ; 107; 0;40284

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 15; 6454.3; 13-NOV-2009 11:16:48; Dark ; 53.5; 70; Zet Pup ; 2.25; 39000;occ; 107; 0;40285
 16; 6691.0; 13-NOV-2009 11:20:45; Dark ; 61.0; 2; Alp Car ;-0.74; 7000;occ; 122; 0;40285
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 4; 2414.3; 13-NOV-2009 11:50:04; Bright; 46.0; 146; 25Eta Tau ; 2.87; 15200;occ; 92; 0;40286
 5; 2629.7; 13-NOV-2009 11:53:39; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;40286
 6; 2727.9; 13-NOV-2009 11:55:17; Bright; 66.0; 149; 45Eps Per ; 2.89; 30000;occ; 132; 0;40286
 7; 2827.8; 13-NOV-2009 11:56:57; Bright; 41.0; 35; 33Alp Per ; 1.79; 6250;occ; 82; 0;40286
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 9; 3986.0; 13-NOV-2009 12:16:16; Bright; 39.5; 82; 48Bet UMa ; 2.37; 10600;occ; 79; 0;40286
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4; 2413.5; 13-NOV-2009 15:11:15; Bright; 45.0; 146; 25Eta Tau ; 2.87; 15200;occ; 90; 0;40288
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4; 2504.9; 14-NOV-2009 16:21:45; Bright; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;40303
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5; 2628.8; 19-NOV-2009 12:05:08; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 0;40372
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 16; 6006.4; 19-NOV-2009 14:42:01; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;40373
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 18; 6418.3; 19-NOV-2009 14:48:53; Dark ; 45.0; 41; Eps Car ; 1.86; 4100;occ; 90; 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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 9; 4051.8; 19-NOV-2009 15:50:02; Bright; 38.5; 87; 64Gam UMA ; 2.43; 11000;occ; 77; 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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 15; 5446.2; 19-NOV-2009 16:13:17; Dark ; 42.0; 171; 2Eps Crv ; 3.00; 4250;occ; 84; 0;40374
 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
 18; 6419.2; 19-NOV-2009 16:29:30; Dark ; 45.0; 41; Eps Car ; 1.86; 4100;occ; 90; 0;40374
 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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 4; 2526.0; 19-NOV-2009 17:05:13; Bright; 42.5; 150; 44Zet Per ; 2.89; 28000;occ; 85; 0;40375
 5; 2628.1; 19-NOV-2009 17:06:55; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 0;40375
 6; 2785.1; 19-NOV-2009 17:09:32; Bright; 38.5; 175; 39Del Per ; 3.01; 19400;occ; 77; 0;40375
 7; 3868.8; 19-NOV-2009 17:27:35; Bright; 39.5; 36; 50Alp UMA ; 1.80; 6300;occ; 79; 0;40375
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 9; 4051.3; 19-NOV-2009 17:30:38; Bright; 41.5; 87; 64Gam UMA ; 2.43; 11000;occ; 83; 0;40375
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 11; 4335.3; 19-NOV-2009 17:35:22; Bright; 35.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 70; 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
 16; 6007.7; 19-NOV-2009 18:03:14; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;40375
 17; 6305.7; 19-NOV-2009 18:08:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40375
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7; 717.4; 20-NOV-2009 02:38:39; Dark ; 55.5; 2; Alp Car ; -0.74; 7000;occ; 111; 0;40381
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2; 2493.3; 25-NOV-2009 10:33:45; Bright; 40.5; 150; 44Zet Per ; 2.89; 28000;occ; 81; 0;40457
3; 2612.8; 25-NOV-2009 10:35:45; Bright; 37.5; 79; 26Bet Per ; 2.31; 13100;occ; 75; 0;40457
4; 2757.4; 25-NOV-2009 10:38:09; Bright; 37.5; 175; 39Del Per ; 3.01; 19400;occ; 75; 0;40457
5; 3846.8; 25-NOV-2009 10:56:19; Bright; 40.5; 36; 50Alp UMa ; 1.80; 6300;occ; 81; 0;40457
6; 3944.9; 25-NOV-2009 10:57:57; Bright; 44.0; 82; 48Bet UMa ; 2.37; 10600;occ; 88; 0;40457
7; 4040.1; 25-NOV-2009 10:59:32; Bright; 40.0; 55; 79Zet UMa ; 2.06; 10200;occ; 80; 0;40457
8; 4342.5; 25-NOV-2009 11:04:34; Bright; 56.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 112; 0;40457
9; 4873.7; 25-NOV-2009 11:13:26; Bright; 49.5; 62; 94Bet Leo ; 2.14; 9700;occ; 99; 0;40457
10; 5078.4; 25-NOV-2009 11:16:50; Bright; 55.5; 121; 29Gam Vir ; 2.74; 7200;occ; 111; 0;40457
11; 5402.5; 25-NOV-2009 11:22:14; Dark ; 45.5; 100; 4Gam Crv ; 2.58; 13100;occ; 91; 0;40457
12; 5496.2; 25-NOV-2009 11:23:48; Dark ; 48.0; 171; 2Eps Crv ; 3.00; 4250;occ; 96; 0;40457
13; 6064.2; 25-NOV-2009 11:33:16; Dark ; 41.5; 113; Mu Vel ; 2.69; 5000;occ; 83; 0;40457
14; 6375.5; 25-NOV-2009 11:38:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40457
15; 6471.8; 25-NOV-2009 11:40:04; Dark ; 42.5; 41; Eps Car ; 1.86; 4100;occ; 85; 0;40457
16; 6569.4; 25-NOV-2009 11:41:41; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;40457
17; 6660.3; 25-NOV-2009 11:43:12; Dark ; 45.0; 70; Zet Pup ; 2.25; 39000;occ; 90; 0;40457
18; 6799.7; 25-NOV-2009 11:45:32; Dark ; 53.5; 2; Alp Car ;-0.74; 7000;occ; 107; 0;40457
19; 7193.0; 25-NOV-2009 11:52:05; Dark ; 49.0; 108; Alp Col ; 2.65; 15200;occ; 98; 0;40457
20; 7492.9; 25-NOV-2009 11:57:05; Dark ; 28.5; 139; 9Bet Lep ; 2.83; 5600;occ; 57; 0;40457
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2; 2265.3; 25-NOV-2009 12:10:33; Bright; 55.0; 13; 87Alp Tau ; 0.87; 3800;occ; 110; 0;40458
3; 2492.9; 25-NOV-2009 12:14:21; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;40458
4; 2612.7; 25-NOV-2009 12:16:21; Bright; 36.0; 79; 26Bet Per ; 2.31; 13100;occ; 72; 0;40458
5; 2757.1; 25-NOV-2009 12:18:45; Bright; 38.0; 175; 39Del Per ; 3.01; 19400;occ; 76; 0;40458
6; 3846.8; 25-NOV-2009 12:36:55; Bright; 43.5; 36; 50Alp UMa ; 1.80; 6300;occ; 87; 0;40458
7; 3944.7; 25-NOV-2009 12:38:32; Bright; 43.0; 82; 48Bet UMa ; 2.37; 10600;occ; 86; 0;40458
8; 4040.3; 25-NOV-2009 12:40:08; Bright; 34.5; 55; 79Zet UMa ; 2.06; 10200;occ; 69; 0;40458
9; 4342.4; 25-NOV-2009 12:45:10; Bright; 36.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 73; 0;40458
10; 4874.1; 25-NOV-2009 12:54:02; Bright; 52.0; 62; 94Bet Leo ; 2.14; 9700;occ; 104; 0;40458
11; 5079.0; 25-NOV-2009 12:57:27; Bright; 58.0; 121; 29Gam Vir ; 2.74; 7200;occ; 116; 0;40458
12; 5403.2; 25-NOV-2009 13:02:51; Dark ; 45.5; 100; 4Gam Crv ; 2.58; 13100;occ; 91; 0;40458
13; 5497.3; 25-NOV-2009 13:04:25; Dark ; 49.5; 171; 2Eps Crv ; 3.00; 4250;occ; 99; 0;40458
14; 6064.9; 25-NOV-2009 13:13:53; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;40458
15; 6376.4; 25-NOV-2009 13:19:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40458
16; 6472.6; 25-NOV-2009 13:20:40; Dark ; 42.5; 41; Eps Car ; 1.86; 4100;occ; 85; 0;40458
17; 6570.3; 25-NOV-2009 13:22:18; Dark ; 49.0; 34; Gam2Vel ; 1.79; 23000;occ; 98; 0;40458
18; 6661.4; 25-NOV-2009 13:23:49; Dark ; 45.0; 70; Zet Pup ; 2.25; 39000;occ; 90; 0;40458
19; 6800.1; 25-NOV-2009 13:26:08; Dark ; 53.5; 2; Alp Car ;-0.74; 7000;occ; 107; 0;40458
20; 7193.5; 25-NOV-2009 13:32:41; Dark ; 51.0; 108; Alp Col ; 2.65; 15200;occ; 102; 0;40458
21; 7493.6; 25-NOV-2009 13:37:41; Dark ; 28.5; 139; 9Bet Lep ; 2.83; 5600;occ; 57; 0;40458
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2; 2264.9; 25-NOV-2009 13:51:09; Bright; 61.5; 13; 87Alp Tau ; 0.87; 3800;occ; 123; 0;40459
3; 2492.3; 25-NOV-2009 13:54:56; Bright; 40.0; 150; 44Zet Per ; 2.89; 28000;occ; 80; 0;40459
4; 2612.9; 25-NOV-2009 13:56:56; Bright; 36.0; 79; 26Bet Per ; 2.31; 13100;occ; 72; 0;40459

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5; 2756.7; 25-NOV-2009 13:59:20; Bright; 38.5; 175; 39Del Per ; 3.01; 19400;occ; 77; 0;40459
6; 3846.4; 25-NOV-2009 14:17:30; Bright; 45.5; 36; 50Alp UMa ; 1.80; 6300;occ; 91; 0;40459
7; 3944.4; 25-NOV-2009 14:19:08; Bright; 47.5; 82; 48Bet UMa ; 2.37; 10600;occ; 95; 0;40459
8; 4040.3; 25-NOV-2009 14:20:44; Bright; 37.0; 55; 79Zet UMa ; 2.06; 10200;occ; 74; 0;40459
9; 4342.8; 25-NOV-2009 14:25:46; Bright; 36.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 72; 0;40459
10; 4874.5; 25-NOV-2009 14:34:38; Bright; 52.5; 62; 94Bet Leo ; 2.14; 9700;occ; 105; 0;40459
11; 5079.4; 25-NOV-2009 14:38:03; Bright; 39.5; 121; 29Gam Vir ; 2.74; 7200;occ; 79; 0;40459
12; 5403.7; 25-NOV-2009 14:43:27; Dark ; 45.5; 100; 4Gam Crv ; 2.58; 13100;occ; 91; 0;40459
13; 5497.7; 25-NOV-2009 14:45:01; Dark ; 48.0; 171; 2Eps Crv ; 3.00; 4250;occ; 96; 0;40459
14; 6065.9; 25-NOV-2009 14:54:30; Dark ; 51.5; 113; Mu Vel ; 2.69; 5000;occ; 103; 0;40459
15; 6377.4; 25-NOV-2009 14:59:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40459
16; 6473.5; 25-NOV-2009 15:01:17; Dark ; 45.0; 41; Eps Car ; 1.86; 4100;occ; 90; 0;40459
17; 6571.3; 25-NOV-2009 15:02:55; Dark ; 51.5; 34; Gam2Vel ; 1.79; 23000;occ; 103; 0;40459
18; 6662.6; 25-NOV-2009 15:04:26; Dark ; 45.0; 70; Zet Pup ; 2.25; 39000;occ; 90; 0;40459
19; 6800.8; 25-NOV-2009 15:06:44; Dark ; 59.0; 2; Alp Car ; -0.74; 7000;occ; 118; 0;40459
20; 7194.1; 25-NOV-2009 15:13:18; Dark ; 49.5; 108; Alp Col ; 2.65; 15200;occ; 99; 0;40459

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2; 1651.5; 25-NOV-2009 15:21:31; Dark ; 46.0; 165; 34Gam Eri ; 2.95; 3200;occ; 92; 0;40460
3; 2264.3; 25-NOV-2009 15:31:44; Bright; 57.5; 13; 87Alp Tau ; 0.87; 3800;occ; 115; 0;40460
4; 2492.1; 25-NOV-2009 15:35:32; Bright; 40.5; 150; 44Zet Per ; 2.89; 28000;occ; 81; 0;40460
5; 2612.4; 25-NOV-2009 15:37:32; Bright; 37.0; 79; 26Bet Per ; 2.31; 13100;occ; 74; 0;40460
6; 2756.7; 25-NOV-2009 15:39:56; Bright; 37.5; 175; 39Del Per ; 3.01; 19400;occ; 75; 0;40460
7; 3846.4; 25-NOV-2009 15:58:06; Bright; 41.5; 36; 50Alp UMa ; 1.80; 6300;occ; 83; 0;40460
8; 3944.4; 25-NOV-2009 15:59:44; Bright; 41.0; 82; 48Bet UMa ; 2.37; 10600;occ; 82; 0;40460
9; 4040.6; 25-NOV-2009 16:01:20; Bright; 35.5; 55; 79Zet UMa ; 2.06; 10200;occ; 71; 0;40460
10; 4342.8; 25-NOV-2009 16:06:22; Bright; 36.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 73; 0;40460
11; 4875.3; 25-NOV-2009 16:15:15; Bright; 53.5; 62; 94Bet Leo ; 2.14; 9700;occ; 107; 0;40460
12; 5080.1; 25-NOV-2009 16:18:40; Bright; 58.0; 121; 29Gam Vir ; 2.74; 7200;occ; 116; 0;40460
13; 5404.5; 25-NOV-2009 16:24:04; Dark ; 44.5; 100; 4Gam Crv ; 2.58; 13100;occ; 89; 0;40460
14; 5498.6; 25-NOV-2009 16:25:38; Dark ; 47.5; 171; 2Eps Crv ; 3.00; 4250;occ; 95; 0;40460
15; 6066.5; 25-NOV-2009 16:35:06; Dark ; 50.5; 113; Mu Vel ; 2.69; 5000;occ; 101; 0;40460
16; 6378.3; 25-NOV-2009 16:40:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40460
17; 6474.0; 25-NOV-2009 16:41:54; Dark ; 46.5; 41; Eps Car ; 1.86; 4100;occ; 93; 0;40460
18; 6572.2; 25-NOV-2009 16:43:32; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;40460
19; 6664.0; 25-NOV-2009 16:45:04; Dark ; 45.0; 70; Zet Pup ; 2.25; 39000;occ; 90; 0;40460
20; 6801.4; 25-NOV-2009 16:47:21; Dark ; 58.5; 2; Alp Car ; -0.74; 7000;occ; 117; 0;40460
21; 7194.7; 25-NOV-2009 16:53:54; Dark ; 48.5; 108; Alp Col ; 2.65; 15200;occ; 97; 0;40460

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2; 1651.2; 25-NOV-2009 17:02:07; Dark ; 48.5; 165; 34Gam Eri ; 2.95; 3200;occ; 97; 0;40461
3; 2263.7; 25-NOV-2009 17:12:19; Bright; 60.0; 13; 87Alp Tau ; 0.87; 3800;occ; 120; 0;40461
4; 2492.1; 25-NOV-2009 17:16:08; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;40461
5; 2612.3; 25-NOV-2009 17:18:08; Bright; 38.0; 79; 26Bet Per ; 2.31; 13100;occ; 76; 0;40461
6; 2756.5; 25-NOV-2009 17:20:32; Bright; 37.5; 175; 39Del Per ; 3.01; 19400;occ; 75; 0;40461
7; 3846.0; 25-NOV-2009 17:38:42; Bright; 44.5; 36; 50Alp UMa ; 1.80; 6300;occ; 89; 0;40461
8; 3943.9; 25-NOV-2009 17:40:19; Bright; 41.0; 82; 48Bet UMa ; 2.37; 10600;occ; 82; 0;40461
9; 4040.5; 25-NOV-2009 17:41:56; Bright; 53.0; 55; 79Zet UMa ; 2.06; 10200;occ; 106; 0;40461
10; 4343.1; 25-NOV-2009 17:46:59; Bright; 36.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 72; 0;40461
11; 4875.8; 25-NOV-2009 17:55:51; Bright; 54.5; 62; 94Bet Leo ; 2.14; 9700;occ; 109; 0;40461
12; 5080.6; 25-NOV-2009 17:59:16; Bright; 58.0; 121; 29Gam Vir ; 2.74; 7200;occ; 116; 0;40461
13; 5405.0; 25-NOV-2009 18:04:41; Dark ; 46.0; 100; 4Gam Crv ; 2.58; 13100;occ; 92; 0;40461
14; 5499.3; 25-NOV-2009 18:06:15; Dark ; 46.5; 171; 2Eps Crv ; 3.00; 4250;occ; 93; 0;40461
15; 6067.2; 25-NOV-2009 18:15:43; Dark ; 48.5; 113; Mu Vel ; 2.69; 5000;occ; 97; 0;40461
16; 6379.1; 25-NOV-2009 18:20:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40461
17; 6474.7; 25-NOV-2009 18:22:30; Dark ; 52.5; 41; Eps Car ; 1.86; 4100;occ; 105; 0;40461
18; 6573.3; 25-NOV-2009 18:24:09; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;40461
19; 6665.0; 25-NOV-2009 18:25:41; Dark ; 45.0; 70; Zet Pup ; 2.25; 39000;occ; 90; 0;40461
20; 6802.0; 25-NOV-2009 18:27:58; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;40461

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2; 1458.3; 25-NOV-2009 18:39:30; Dark ; 40.0; 139; 9Bet Lep ; 2.83; 5600;occ; 80; 0;40462
3; 1651.6; 25-NOV-2009 18:42:43; Dark ; 47.0; 165; 34Gam Eri ; 2.95; 3200;occ; 94; 0;40462
4; 2263.2; 25-NOV-2009 18:52:55; Bright; 68.0; 13; 87Alp Tau ; 0.87; 3800;occ; 136; 0;40462
5; 2491.5; 25-NOV-2009 18:56:43; Bright; 40.0; 150; 44Zet Per ; 2.89; 28000;occ; 80; 0;40462
6; 2612.2; 25-NOV-2009 18:58:44; Bright; 37.0; 79; 26Bet Per ; 2.31; 13100;occ; 74; 0;40462
7; 2755.9; 25-NOV-2009 19:01:07; Bright; 38.0; 175; 39Del Per ; 3.01; 19400;occ; 76; 0;40462
8; 3845.8; 25-NOV-2009 19:19:17; Bright; 45.5; 36; 50Alp UMa ; 1.80; 6300;occ; 91; 0;40462

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9; 3943.5; 25-NOV-2009 19:20:55; Bright; 46.0; 82; 48Bet UMA ; 2.37; 10600;occ; 92; 0;40462
10; 4040.4; 25-NOV-2009 19:22:32; Bright; 53.0; 55; 79Zet UMA ; 2.06; 10200;occ; 106; 0;40462
11; 4343.0; 25-NOV-2009 19:27:35; Bright; 36.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 73; 0;40462
12; 4876.2; 25-NOV-2009 19:36:28; Bright; 50.5; 62; 94Bet Leo ; 2.14; 9700;occ; 101; 0;40462
13; 5080.7; 25-NOV-2009 19:39:52; Bright; 58.0; 121; 29Gam Vir ; 2.74; 7200;occ; 116; 0;40462
14; 5405.8; 25-NOV-2009 19:45:17; Dark ; 45.0; 100; 4Gam Crv ; 2.58; 13100;occ; 90; 0;40462
15; 5499.8; 25-NOV-2009 19:46:51; Dark ; 50.0; 171; 2Eps Crv ; 3.00; 4250;occ; 100; 0;40462
16; 6067.9; 25-NOV-2009 19:56:19; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;40462
17; 6379.9; 25-NOV-2009 20:01:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40462
18; 6475.1; 25-NOV-2009 20:03:07; Dark ; 53.5; 41; Eps Car ; 1.86; 4100;occ; 107; 0;40462
19; 6574.0; 25-NOV-2009 20:04:46; Dark ; 51.5; 34; Gam2Vel ; 1.79; 23000;occ; 103; 0;40462
20; 6666.2; 25-NOV-2009 20:06:18; Dark ; 45.0; 70; Zet Pup ; 2.25; 39000;occ; 90; 0;40462
21; 6802.6; 25-NOV-2009 20:08:34; Dark ; 57.5; 2; Alp Car ; -0.74; 7000;occ; 115; 0;40462
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2; 1461.6; 26-NOV-2009 19:48:32; Dark ; 55.0; 139; 9Bet Lep ; 2.83; 5600;occ; 110; 0;40477
3; 1652.7; 26-NOV-2009 19:51:43; Dark ; 45.5; 165; 34Gam Eri ; 2.95; 3200;occ; 91; 0;40477
4; 2256.3; 26-NOV-2009 20:01:47; Bright; 57.5; 13; 87Alp Tau ; 0.87; 3800;occ; 115; 0;40477
5; 2486.8; 26-NOV-2009 20:05:37; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;40477
6; 2610.1; 26-NOV-2009 20:07:40; Bright; 38.5; 79; 26Bet Per ; 2.31; 13100;occ; 77; 0;40477
7; 2751.8; 26-NOV-2009 20:10:02; Bright; 37.0; 175; 39Del Per ; 3.01; 19400;occ; 74; 0;40477
8; 2890.6; 26-NOV-2009 20:12:21; Bright; 52.0; 6; 13Alp Aur ; 0.08; 3400;occ; 104; 0;40477
9; 3840.9; 26-NOV-2009 20:28:11; Bright; 41.5; 36; 50Alp UMa ; 1.80; 6300;occ; 83; 0;40477
10; 3938.4; 26-NOV-2009 20:29:49; Bright; 46.5; 82; 48Bet UMA ; 2.37; 10600;occ; 93; 0;40477
11; 4040.4; 26-NOV-2009 20:31:31; Bright; 54.0; 55; 79Zet UMA ; 2.06; 10200;occ; 108; 0;40477
12; 4343.8; 26-NOV-2009 20:36:34; Bright; 37.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 74; 0;40477
13; 4884.7; 26-NOV-2009 20:45:35; Bright; 72.5; 62; 94Bet Leo ; 2.14; 9700;occ; 145; 0;40477
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2; -948.0; 26-NOV-2009 20:48:58; Bright; 58.5; 121; 29Gam Vir ; 2.74; 7200;occ; 117; 0;40477
3; -620.2; 26-NOV-2009 20:54:26; Dark ; 45.5; 100; 4Gam Crv ; 2.58; 13100;occ; 91; 0;40477
4; -525.8; 26-NOV-2009 20:56:00; Dark ; 46.0; 171; 2Eps Crv ; 3.00; 4250;occ; 92; 0;40477
5; 42.8; 26-NOV-2009 21:05:29; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;40478
6; 356.8; 26-NOV-2009 21:10:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40478
7; 448.6; 26-NOV-2009 21:12:15; Dark ; 48.5; 41; Eps Car ; 1.86; 4100;occ; 97; 0;40478
8; 552.0; 26-NOV-2009 21:13:58; Dark ; 52.0; 34; Gam2Vel ; 1.79; 23000;occ; 104; 0;40478
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10; 774.8; 26-NOV-2009 21:17:41; Dark ; 59.0; 2; Alp Car ; -0.74; 7000;occ; 118; 0;40478
11; 1166.6; 26-NOV-2009 21:24:13; Dark ; 49.0; 108; Alp Col ; 2.65; 15200;occ; 98; 0;40478
12; 1461.8; 26-NOV-2009 21:29:08; Dark ; 56.5; 139; 9Bet Lep ; 2.83; 5600;occ; 113; 0;40478
13; 1652.9; 26-NOV-2009 21:32:19; Dark ; 46.5; 165; 34Gam Eri ; 2.95; 3200;occ; 93; 0;40478
14; 2255.6; 26-NOV-2009 21:42:22; Bright; 55.0; 13; 87Alp Tau ; 0.87; 3800;occ; 110; 0;40478
15; 2486.3; 26-NOV-2009 21:46:13; Bright; 40.5; 150; 44Zet Per ; 2.89; 28000;occ; 81; 0;40478
16; 2610.1; 26-NOV-2009 21:48:16; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 0;40478
17; 2751.6; 26-NOV-2009 21:50:38; Bright; 35.0; 175; 39Del Per ; 3.01; 19400;occ; 70; 0;40478
18; 2889.8; 26-NOV-2009 21:52:56; Bright; 52.5; 6; 13Alp Aur ; 0.08; 3400;occ; 105; 0;40478
19; 3840.7; 26-NOV-2009 22:08:47; Bright; 46.0; 36; 50Alp UMa ; 1.80; 6300;occ; 92; 0;40478
20; 3938.3; 26-NOV-2009 22:10:25; Bright; 43.5; 82; 48Bet UMA ; 2.37; 10600;occ; 87; 0;40478
21; 4040.3; 26-NOV-2009 22:12:07; Bright; 39.0; 55; 79Zet UMA ; 2.06; 10200;occ; 78; 0;40478
22; 4343.8; 26-NOV-2009 22:17:10; Bright; 56.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 112; 0;40478
23; 4885.3; 26-NOV-2009 22:26:12; Bright; 54.0; 62; 94Bet Leo ; 2.14; 9700;occ; 108; 0;40478
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