

GOMOS Daily Report 15-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 05:11:55
Data source version	GOMOS/5.00L03
Start time of products	15NOV2009 00:01:49
Stop time of products	15NOV2009 23:58:43
Store outputs in DB	Yes
Nb of level 1b prods	101
Nb of prods with errors	1

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

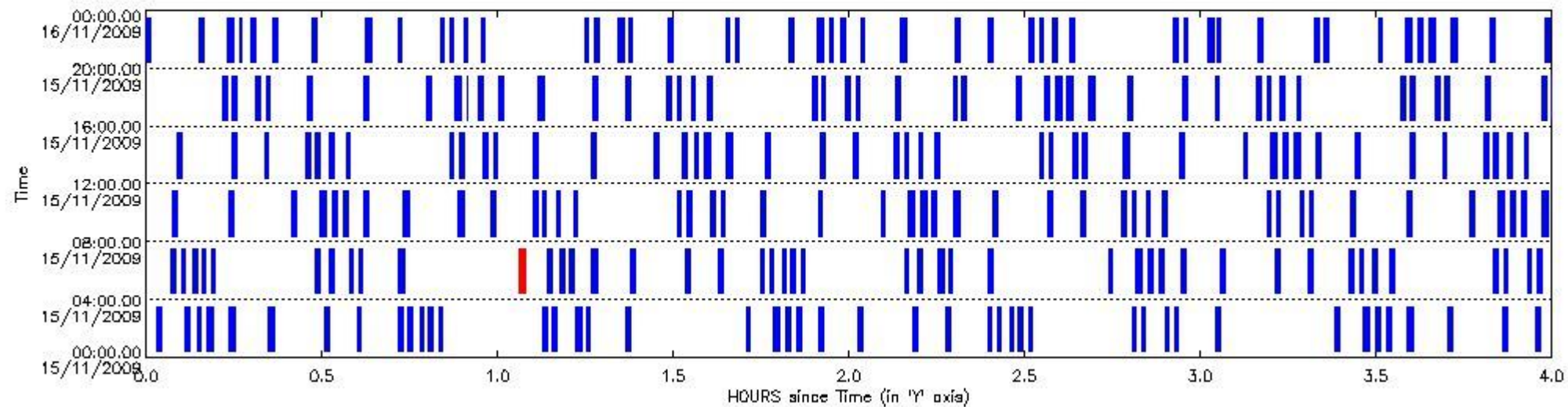
2.1 Level 0 products arrived in PCF (see template [here](#))

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
15-NOV-2009 05:03:44	MuVel	113	40310

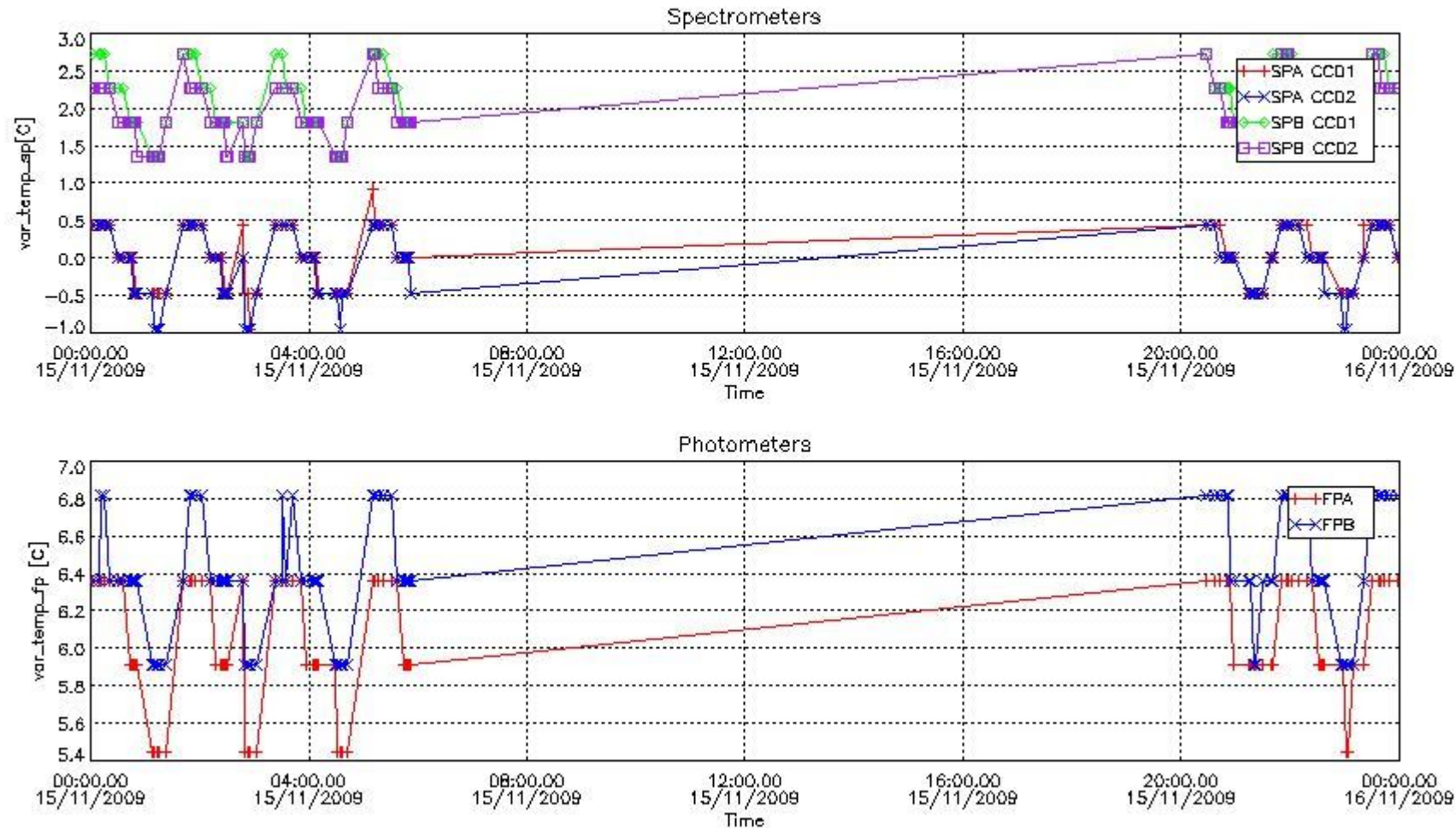
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20091115_000149_000000452084_00173_40307_3548.N1	15-NOV-2009 00:01:49	Dark	44.500	113	Mu Vel	2.6920	5000.0	89	40307	No
2	GOM_TRA_1PNPDE20091115_000840_000000432084_00174_40308_3549.N1	15-NOV-2009 00:08:40	Dark	43.000	41	Eps Car	1.8600	4100.0	86	40308	No
3	GOM_TRA_1PNPDE20091115_001025_000000542084_00174_40308_3550.N1	15-NOV-2009 00:10:25	Dark	54.000	70	Zet Pup	2.2460	39000.	108	40308	No
4	GOM_TRA_1PNPDE20091115_001410_000000612084_00174_40308_3551.N1	15-NOV-2009 00:14:10	Dark	61.000	2	Alp Car	-0.73600	7000.0	122	40308	No
5	GOM_TRA_1PNPDE20091115_002052_000000552084_00174_40308_3552.N1	15-NOV-2009 00:20:52	Dark	55.000	108	Alp Col	2.6520	15200.	110	40308	No
6	GOM_TRA_1PNPDE20091115_003019_000000522084_00174_40308_3553.N1	15-NOV-2009 00:30:19	Straylight	51.500	165	34Gam Eri	2.9500	3200.0	103	40308	No
7	GOM_TRA_1PNPDE20091115_003556_000000462084_00174_40308_3554.N1	15-NOV-2009 00:35:56	Twilight_stray	46.000	94	92Alp Cet	2.5260	3100.0	92	40308	No
8	GOM_TRA_1PNPDE20091115_004302_000000442084_00174_40308_3555.N1	15-NOV-2009 00:43:02	Bright	44.000	146	25Eta Tau	2.8730	15200.	88	40308	No
9	GOM_TRA_1PNPDE20091115_004444_000000362084_00174_40308_3556.N1	15-NOV-2009 00:44:44	Bright	35.500	173	4Bet Tri	3.0040	8900.0	71	40308	No
10	GOM_TRA_1PNPDE20091115_004648_000000362084_00174_40308_3557.N1	15-NOV-2009 00:46:48	Bright	36.000	73	57Gam1And	2.2600	13100.	72	40308	No

11	GOM_TRA_1PNPDE20091115_004814_000000412084_00174_40308_3558.N1	15-NOV-2009 00:48:14	Bright	40.500	149	45Eps Per	2.8880	30000.	81	40308	No
12	GOM_TRA_1PNPDE20091115_004959_000000402084_00174_40308_3559.N1	15-NOV-2009 00:49:59	Bright	40.000	35	33Alp Per	1.7950	6250.0	80	40308	No
13	GOM_TRA_1PNPDE20091115_010743_000000482084_00174_40308_3560.N1	15-NOV-2009 01:07:43	Bright	47.500	36	50Alp UMa	1.8000	6300.0	95	40308	No
14	GOM_TRA_1PNPDE20091115_010921_000000412084_00174_40308_3561.N1	15-NOV-2009 01:09:21	Bright	41.000	82	48Bet UMa	2.3650	10600.	82	40308	No
15	GOM_TRA_1PNPDE20091115_011323_000000632084_00174_40308_3562.N1	15-NOV-2009 01:13:23	Bright	63.000	174	52Psi UMa	3.0040	4400.0	126	40308	No
16	GOM_TRA_1PNPDE20091115_011508_000000352084_00174_40308_3563.N1	15-NOV-2009 01:15:08	Bright	35.000	152	12Alp2CVn	2.8900	11000.	70	40308	No
17	GOM_TRA_1PNPDE20091115_012156_000000532084_00174_40308_3564.N1	15-NOV-2009 01:21:56	Bright	52.500	96	68Del Leo	2.5600	9300.0	105	40308	No
18	GOM_TRA_1PNPDE20091115_014225_000000422084_00174_40308_3554.N1	15-NOV-2009 01:42:25	Dark	42.000	113	Mu Vel	2.6920	5000.0	84	40308	No
19	GOM_TRA_1PNPDE20091115_014917_000000422084_00175_40309_3555.N1	15-NOV-2009 01:49:17	Dark	42.000	41	Eps Car	1.8600	4100.0	84	40309	No
20	GOM_TRA_1PNPDE20091115_015102_000000552084_00175_40309_3556.N1	15-NOV-2009 01:51:02	Dark	54.500	70	Zet Pup	2.2460	39000.	109	40309	No
21	GOM_TRA_1PNPDE20091115_015446_000000462084_00175_40309_3557.N1	15-NOV-2009 01:54:46	Dark	45.500	2	Alp Car	-0.73600	7000.0	91	40309	No
22	GOM_TRA_1PNPDE20091115_020129_000000542084_00175_40309_3558.N1	15-NOV-2009 02:01:29	Dark	53.500	108	Alp Col	2.6520	15200.	107	40309	No
23	GOM_TRA_1PNPDE20091115_021055_000000522084_00175_40309_3559.N1	15-NOV-2009 02:10:55	Straylight	51.500	165	34Gam Eri	2.9500	3200.0	103	40309	No
24	GOM_TRA_1PNPDE20091115_021632_000000492084_00175_40309_3560.N1	15-NOV-2009 02:16:32	Twilight_and_stray	49.000	94	92Alp Cet	2.5260	3100.0	98	40309	No
25	GOM_TRA_1PNPDE20091115_022338_000000472084_00175_40309_3561.N1	15-NOV-2009 02:23:38	Bright	46.500	146	25Eta Tau	2.8730	15200.	93	40309	No
26	GOM_TRA_1PNPDE20091115_022520_000000382084_00175_40309_3562.N1	15-NOV-2009 02:25:20	Bright	37.500	173	4Bet Tri	3.0040	8900.0	75	40309	No
27	GOM_TRA_1PNPDE20091115_022724_000000372084_00175_40309_3563.N1	15-NOV-2009 02:27:24	Bright	37.000	73	57Gam1And	2.2600	13100.	74	40309	No
28	GOM_TRA_1PNPDE20091115_022849_000000432084_00175_40309_3564.N1	15-NOV-2009 02:28:49	Bright	42.500	149	45Eps Per	2.8880	30000.	85	40309	No
29	GOM_TRA_1PNPDE20091115_023034_000000392084_00175_40309_3565.N1	15-NOV-2009 02:30:34	Bright	38.500	35	33Alp Per	1.7950	6250.0	77	40309	No
30	GOM_TRA_1PNPDE20091115_024819_000000392084_00175_40309_3562.N1	15-NOV-2009 02:48:19	Bright	38.500	36	50Alp UMa	1.8000	6300.0	77	40309	Yes
31	GOM_TRA_1PNPDE20091115_024957_000000402084_00175_40309_3563.N1	15-NOV-2009 02:49:57	Bright	40.000	82	48Bet UMa	2.3650	10600.	80	40309	No
32	GOM_TRA_1PNPDE20091115_025359_000000412084_00175_40309_3564.N1	15-NOV-2009 02:53:59	Bright	41.000	174	52Psi UMa	3.0040	4400.0	82	40309	No
33	GOM_TRA_1PNPDE20091115_025544_000000342084_00175_40309_3565.N1	15-NOV-2009 02:55:44	Bright	33.500	152	12Alp2CVn	2.8900	11000.	67	40309	No
34	GOM_TRA_1PNPDE20091115_030232_000000532084_00175_40309_3566.N1	15-NOV-2009 03:02:32	Bright	52.500	96	68Del Leo	2.5600	9300.0	105	40309	No
35	GOM_TRA_1PNPDE20091115_032302_000000452084_00175_40309_3567.N1	15-NOV-2009 03:23:02	Dark	45.000	113	Mu Vel	2.6920	5000.0	90	40309	No
36	GOM_TRA_1PNPDE20091115_032953_000000452084_00176_40310_3568.N1	15-NOV-2009 03:29:53	Dark	44.500	41	Eps Car	1.8600	4100.0	89	40310	No
37	GOM_TRA_1PNPDE20091115_033140_000000552084_00176_40310_3569.N1	15-NOV-2009 03:31:40	Dark	54.500	70	Zet Pup	2.2460	39000.	109	40310	No
38	GOM_TRA_1PNPDE20091115_033524_000000612084_00176_40310_3570.N1	15-NOV-2009 03:35:24	Dark	60.500	2	Alp Car	-0.73600	7000.0	121	40310	No
39	GOM_TRA_1PNPDE20091115_034206_000000512084_00176_40310_3571.N1	15-NOV-2009 03:42:06	Dark	51.000	108	Alp Col	2.6520	15200.	102	40310	No
40	GOM_TRA_1PNPDE20091115_035131_000000512084_00176_40310_3572.N1	15-NOV-2009 03:51:31	Straylight	50.500	165	34Gam Eri	2.9500	3200.0	101	40310	No
41	GOM_TRA_1PNPDE20091115_035708_000000492084_00176_40310_3573.N1	15-NOV-2009 03:57:08	Twilight_and_stray	48.500	94	92Alp Cet	2.5260	3100.0	97	40310	No
42	GOM_TRA_1PNPDE20091115_040414_000000452084_00176_40310_3574.N1	15-NOV-2009 04:04:14	Bright	45.000	146	25Eta Tau	2.8730	15200.	90	40310	No
43	GOM_TRA_1PNPDE20091115_040556_000000362084_00176_40310_3575.N1	15-NOV-2009 04:05:56	Bright	36.000	173	4Bet Tri	3.0040	8900.0	72	40310	No
44	GOM_TRA_1PNPDE20091115_040800_000000372084_00176_40310_3576.N1	15-NOV-2009 04:08:00	Bright	36.500	73	57Gam1And	2.2600	13100.	73	40310	No
45	GOM_TRA_1PNPDE20091115_040924_000000442084_00176_40310_3577.N1	15-NOV-2009 04:09:24	Bright	44.000	149	45Eps Per	2.8880	30000.	88	40310	No
46	GOM_TRA_1PNPDE20091115_041110_000000392084_00176_40310_3578.N1	15-NOV-2009 04:11:10	Bright	38.500	35	33Alp Per	1.7950	6250.0	77	40310	No
47	GOM_TRA_1PNPDE20091115_042855_000000472084_00176_40310_3567.N1	15-NOV-2009 04:28:55	Bright	46.500	36	50Alp UMa	1.8000	6300.0	93	40310	No
48	GOM_TRA_1PNPDE20091115_043113_000000512084_00176_40310_3568.N1	15-NOV-2009 04:31:13	Bright	50.500	32	77Eps UMa	1.7630	11000.	101	40310	No
49	GOM_TRA_1PNPDE20091115_043435_000000432084_00176_40310_3569.N1	15-NOV-2009 04:34:35	Bright	43.000	174	52Psi UMa	3.0040	4400.0	86	40310	No
50	GOM_TRA_1PNPDE20091115_043620_000000352084_00176_40310_3570.N1	15-NOV-2009 04:36:20	Bright	35.000	152	12Alp2CVn	2.8900	11000.	70	40310	No
51	GOM_TRA_1PNPDE20091115_044308_000000502084_00176_40310_3571.N1	15-NOV-2009 04:43:08	Bright	49.500	96	68Del Leo	2.5600	9300.0	99	40310	No
52	GOM_TRA_1PNPDE20091115_051030_000000542084_00177_40311_3572.N1	15-NOV-2009 05:10:30	Dark	54.000	41	Eps Car	1.8600	4100.0	108	40311	No
53	GOM_TRA_1PNPDE20091115_051217_000000532084_00177_40311_3573.N1	15-NOV-2009 05:12:17	Dark	53.000	70	Zet Pup	2.2460	39000.	106	40311	No
54	GOM_TRA_1PNPDE20091115_051600_000000602084_00177_40311_3574.N1	15-NOV-2009 05:16:00	Dark	59.500	2	Alp Car	-0.73600	7000.0	119	40311	No
55	GOM_TRA_1PNPDE20091115_052242_000000532084_00177_40311_3575.N1	15-NOV-2009 05:22:42	Dark	53.000	108	Alp Col	2.6520	15200.	106	40311	No
56	GOM_TRA_1PNPDE20091115_053207_000000512084_00177_40311_3576.N1	15-NOV-2009 05:32:07	Straylight	51.000	165	34Gam Eri	2.9500	3200.0	102	40311	No
57	GOM_TRA_1PNPDE20091115_053743_000000472084_00177_40311_3577.N1	15-NOV-2009 05:37:43	Twilight_and_stray	46.500	94	92Alp Cet	2.5260	3100.0	93	40311	No
58	GOM_TRA_1PNPDE20091115_054448_000000452084_00177_40311_3578.N1	15-NOV-2009 05:44:48	Bright	44.500	146	25Eta Tau	2.8730	15200.	89	40311	No
59	GOM_TRA_1PNPDE20091115_054632_000000362084_00177_40311_3579.N1	15-NOV-2009 05:46:32	Bright	35.500	173	4Bet Tri	3.0040	8900.0	71	40311	No
60	GOM_TRA_1PNPDE20091115_054836_000000392084_00177_40311_3580.N1	15-NOV-2009 05:48:36	Bright	39.000	73	57Gam1And	2.2600	13100.	78	40311	No
61	GOM_TRA_1PNPDE20091115_055000_000000442084_00177_40311_3581.N1	15-NOV-2009 05:50:00	Bright	43.500	149	45Eps Per	2.8880	30000.	87	40311	No
62	GOM_TRA_1PNPDE20091115_055146_000000412084_00177_40311_3582.N1	15-NOV-2009 05:51:46	Bright	40.500	35	33Alp Per	1.7950	6250.0	81	40311	No
63	GOM_TRA_1PNPDE20091115_202812_000000532084_00186_40320_3618.N1	15-NOV-2009 20:28:12	Dark	53.000	108	Alp Col	2.6520	15200.	106	40320	No
64	GOM_TRA_1PNPDE20091115_203731_000000522084_00186_40320_3619.N1	15-NOV-2009 20:37:31	Straylight	51.500	165	34Gam Eri	2.9500	3200.0	103	40320	No
65	GOM_TRA_1PNPDE20091115_204306_000000352084_00186_40320_3620.N1	15-NOV-2009 20:43:06	Twilight_and_stray	34.500	94	92Alp Cet	2.5260	3100.0	69	40320	No
66	GOM_TRA_1PNPDE20091115_205007_000000442084_00186_40320_3621.N1	15-NOV-2009 20:50:07	Bright	44.000	146	25Eta Tau	2.8730	15200.	88	40320	No
67	GOM_TRA_1PNPDE20091115_205155_000000362084_00186_40320_3622.N1	15-NOV-2009 20:51:55	Bright	36.000	173	4Bet Tri	3.0040	8900.0	72	40320	No
68	GOM_TRA_1PNPDE20091115_205414_000000402084_00186_40320_3623.N1	15-NOV-2009 20:54:14	Bright	40.000	79	26Bet Per	2.3100	13100.	80	40320	No
69	GOM_TRA_1PNPDE20091115_205706_000000412084_00186_40320_3624.N1	15-NOV-2009 20:57:06	Bright	40.500	35	33Alp Per	1.7950	6250.0	81	40320	No

70	GOM_TRA_1PNPDE20091115_211452_000000342084_00186_40320_3625.N1	15-NOV-2009 21:14:52	Bright	33.500	36	50Alp UMa	1.8000	6300.0	67	40320	No
71	GOM_TRA_1PNPDE20091115_211630_000000452084_00186_40320_3626.N1	15-NOV-2009 21:16:30	Bright	44.500	82	48Bet UMa	2.3650	10600.	89	40320	No
72	GOM_TRA_1PNPDE20091115_212033_000000642084_00186_40320_3627.N1	15-NOV-2009 21:20:33	Bright	64.000	174	52Psi UMa	3.0040	4400.0	128	40320	No
73	GOM_TRA_1PNPDE20091115_212220_000000342084_00186_40320_3628.N1	15-NOV-2009 21:22:20	Bright	33.500	152	12Alp2CVn	2.8900	11000.	67	40320	No
74	GOM_TRA_1PNPDE20091115_212912_000000462084_00186_40320_3629.N1	15-NOV-2009 21:29:12	Bright	45.500	96	68Del Leo	2.5600	9300.0	91	40320	No
75	GOM_TRA_1PNPDE20091115_213858_000000412084_00186_40320_3628.N1	15-NOV-2009 21:38:58	Twilight	40.500	100	4Gam Crv	2.5800	13100.	81	40320	No
76	GOM_TRA_1PNPDE20091115_214029_000000462084_00186_40320_3629.N1	15-NOV-2009 21:40:29	Twilight	45.500	171	2Eps Crv	3.0010	4250.0	91	40320	No
77	GOM_TRA_1PNPDE20091115_214944_000000502084_00186_40320_3630.N1	15-NOV-2009 21:49:44	Dark	50.000	113	Mu Vel	2.6920	5000.0	100	40320	No
78	GOM_TRA_1PNPDE20091115_215636_000000432084_00187_40321_3631.N1	15-NOV-2009 21:56:36	Dark	42.500	41	Eps Car	1.8600	4100.0	85	40321	No
79	GOM_TRA_1PNPDE20091115_215828_000000562084_00187_40321_3632.N1	15-NOV-2009 21:58:28	Dark	55.500	70	Zet Pup	2.2460	39000.	111	40321	No
80	GOM_TRA_1PNPDE20091115_220206_000000272084_00187_40321_3633.N1	15-NOV-2009 22:02:06	Dark	26.500	2	Alp Car	-0.73600	7000.0	53	40321	No
81	GOM_TRA_1PNPDE20091115_220848_000000542084_00187_40321_3634.N1	15-NOV-2009 22:08:48	Dark	53.500	108	Alp Col	2.6520	15200.	107	40321	No
82	GOM_TRA_1PNPDE20091115_221807_000000502084_00187_40321_3635.N1	15-NOV-2009 22:18:07	Straylight	50.000	165	34Gam Eri	2.9500	3200.0	100	40321	No
83	GOM_TRA_1PNPDE20091115_222342_000000472084_00187_40321_3636.N1	15-NOV-2009 22:23:42	Twilight	46.500	94	92Alp Cet	2.5260	3100.0	93	40321	No
84	GOM_TRA_1PNPDE20091115_223043_000000462084_00187_40321_3637.N1	15-NOV-2009 22:30:43	Bright	45.500	146	25Eta Tau	2.8730	15200.	91	40321	No
85	GOM_TRA_1PNPDE20091115_223231_000000362084_00187_40321_3638.N1	15-NOV-2009 22:32:31	Bright	36.000	173	4Bet Tri	3.0040	8900.0	72	40321	No
86	GOM_TRA_1PNPDE20091115_223450_000000392084_00187_40321_3639.N1	15-NOV-2009 22:34:50	Bright	39.000	79	26Bet Per	2.3100	13100.	78	40321	No
87	GOM_TRA_1PNPDE20091115_223741_000000422084_00187_40321_3640.N1	15-NOV-2009 22:37:41	Bright	41.500	35	33Alp Per	1.7950	6250.0	83	40321	No
88	GOM_TRA_1PNPDE20091115_225528_000000452084_00187_40321_3641.N1	15-NOV-2009 22:55:28	Bright	44.500	36	50Alp UMa	1.8000	6300.0	89	40321	No
89	GOM_TRA_1PNPDE20091115_225706_000000412084_00187_40321_3642.N1	15-NOV-2009 22:57:06	Bright	41.000	82	48Bet UMa	2.3650	10600.	82	40321	No
90	GOM_TRA_1PNPDE20091115_230109_000000642084_00187_40321_3643.N1	15-NOV-2009 23:01:09	Bright	64.000	174	52Psi UMa	3.0040	4400.0	128	40321	No
91	GOM_TRA_1PNPDE20091115_230257_000000342084_00187_40321_3644.N1	15-NOV-2009 23:02:57	Bright	33.500	152	12Alp2CVn	2.8900	11000.	67	40321	No
92	GOM_TRA_1PNPDE20091115_230948_000000512084_00187_40321_3645.N1	15-NOV-2009 23:09:48	Bright	50.500	96	68Del Leo	2.5600	9300.0	101	40321	No
93	GOM_TRA_1PNPDE20091115_231934_000000402084_00187_40321_3634.N1	15-NOV-2009 23:19:34	Twilight	40.000	100	4Gam Crv	2.5800	13100.	80	40321	No
94	GOM_TRA_1PNPDE20091115_231934_000000402084_00187_40321_3665.N1	15-NOV-2009 23:19:34	Twilight	40.000	100	4Gam Crv	2.5800	13100.	80	40321	No
95	GOM_TRA_1PNPDE20091115_232105_000000452084_00187_40321_3635.N1	15-NOV-2009 23:21:05	Twilight	44.500	171	2Eps Crv	3.0010	4250.0	89	40321	No
96	GOM_TRA_1PNPDE20091115_233020_000000452084_00187_40321_3636.N1	15-NOV-2009 23:30:20	Dark	45.000	113	Mu Vel	2.6920	5000.0	90	40321	No
97	GOM_TRA_1PNPDE20091115_233712_000000432084_00188_40322_3637.N1	15-NOV-2009 23:37:12	Dark	43.000	41	Eps Car	1.8600	4100.0	86	40322	No
98	GOM_TRA_1PNPDE20091115_233906_000000572084_00188_40322_3638.N1	15-NOV-2009 23:39:06	Dark	56.500	70	Zet Pup	2.2460	39000.	113	40322	No
99	GOM_TRA_1PNPDE20091115_234242_000000612084_00188_40322_3639.N1	15-NOV-2009 23:42:42	Dark	61.000	2	Alp Car	-0.73600	7000.0	122	40322	No
100	GOM_TRA_1PNPDE20091115_234925_000000542084_00188_40322_3640.N1	15-NOV-2009 23:49:25	Dark	53.500	108	Alp Col	2.6520	15200.	107	40322	No
101	GOM_TRA_1PNPDE20091115_235843_000000502084_00188_40322_3641.N1	15-NOV-2009 23:58:43	Straylight	50.000	165	34Gam Eri	2.9500	3200.0	100	40322	No

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



4. Overview of dark signal processing per product

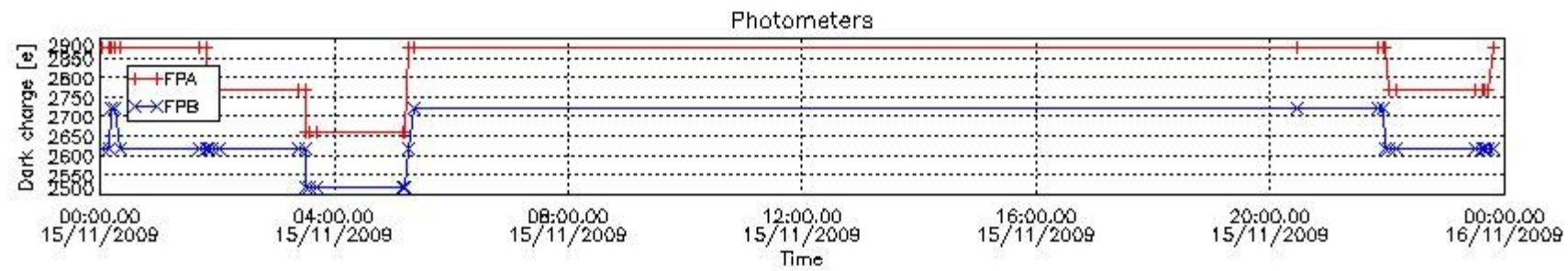
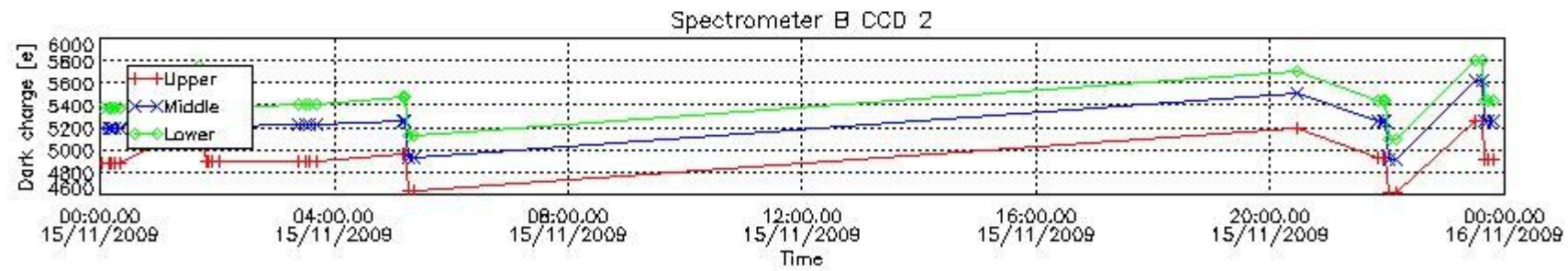
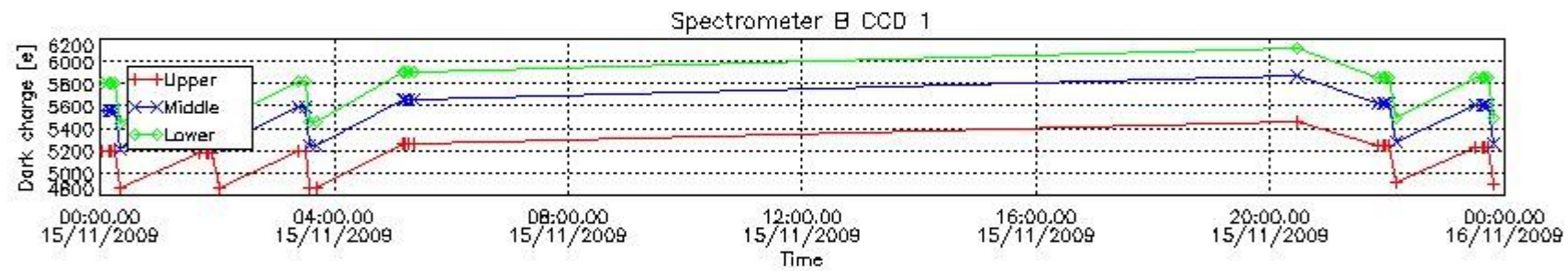
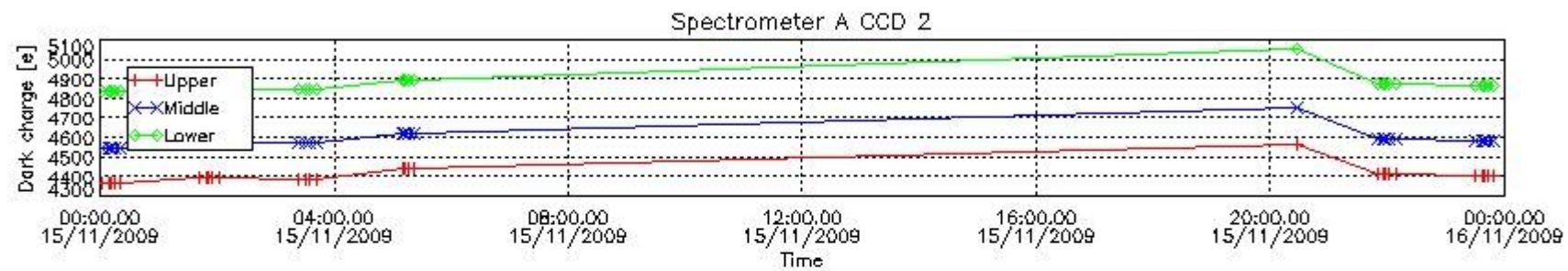
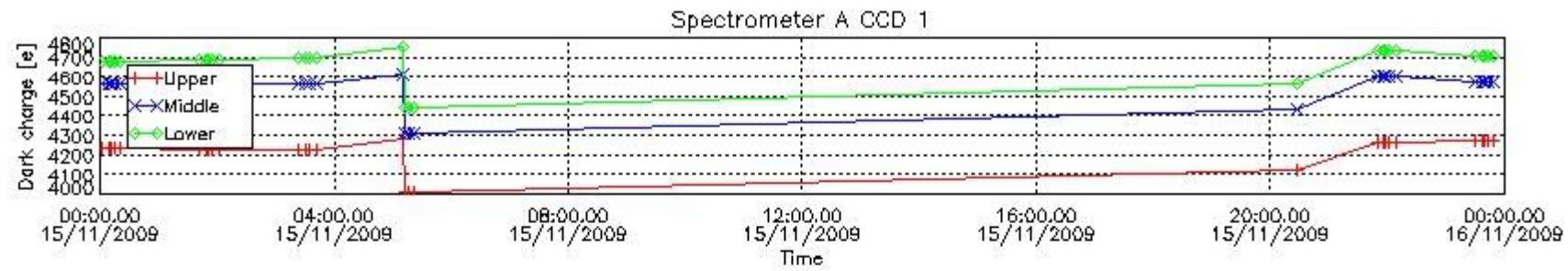
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20091115_202812_000000532084_00186_40320_3618.N1	DC map used
GOM_TRA_1PNPDE20091115_203731_000000522084_00186_40320_3619.N1	DC map used
GOM_TRA_1PNPDE20091115_204306_000000352084_00186_40320_3620.N1	DC map used
GOM_TRA_1PNPDE20091115_205007_000000442084_00186_40320_3621.N1	DC map used
GOM_TRA_1PNPDE20091115_205155_000000362084_00186_40320_3622.N1	DC map used
GOM_TRA_1PNPDE20091115_205414_000000402084_00186_40320_3623.N1	DC map used
GOM_TRA_1PNPDE20091115_205706_000000412084_00186_40320_3624.N1	DC map used
GOM_TRA_1PNPDE20091115_211452_000000342084_00186_40320_3625.N1	DC map used
GOM_TRA_1PNPDE20091115_211630_000000452084_00186_40320_3626.N1	DC map used
GOM_TRA_1PNPDE20091115_212033_000000642084_00186_40320_3627.N1	DC map used
GOM_TRA_1PNPDE20091115_212220_000000342084_00186_40320_3628.N1	DC map used
GOM_TRA_1PNPDE20091115_212912_000000462084_00186_40320_3629.N1	DC map used

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



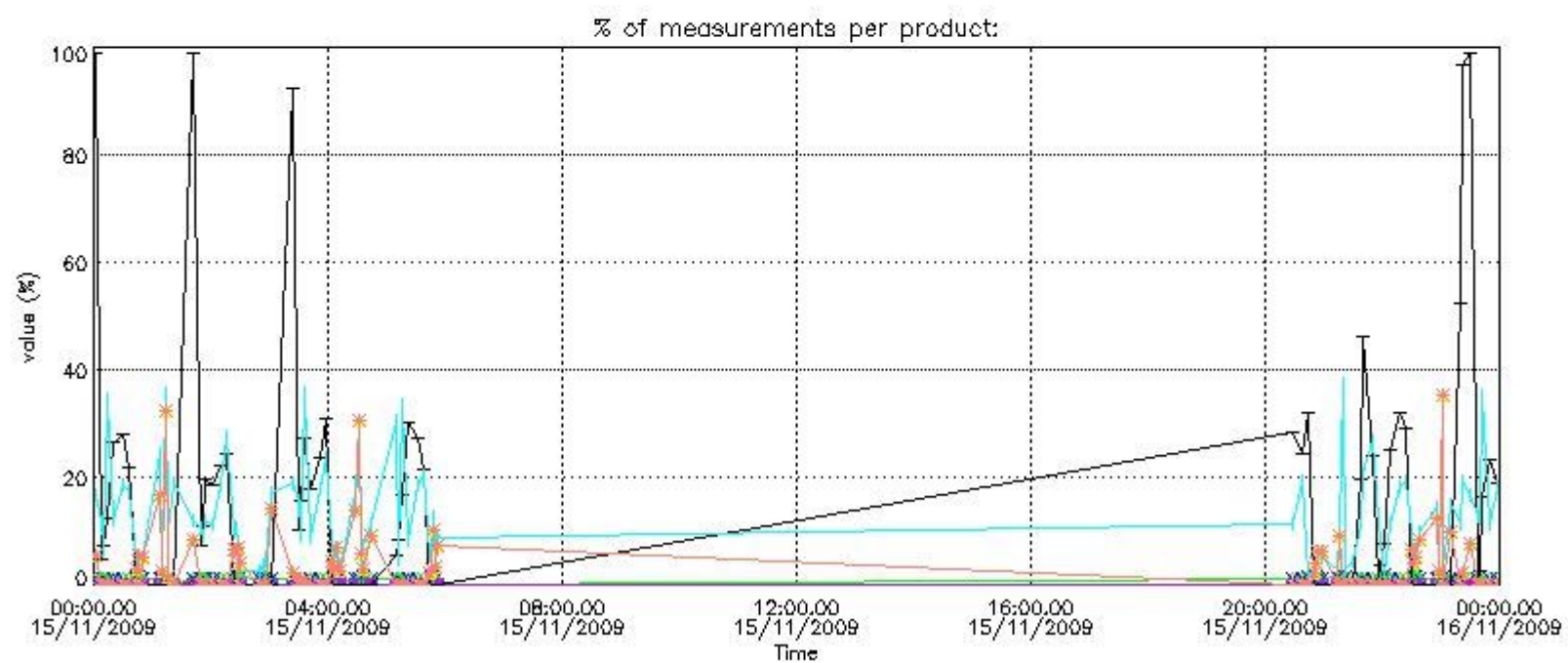
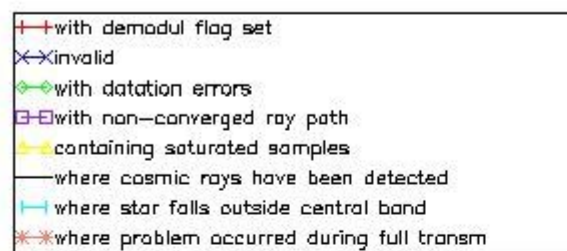
5. Demodulation flag and quality information monitoring

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.

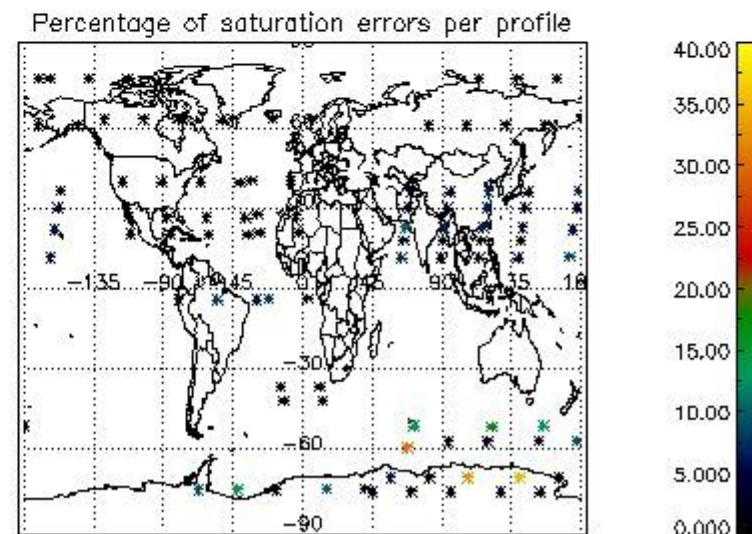
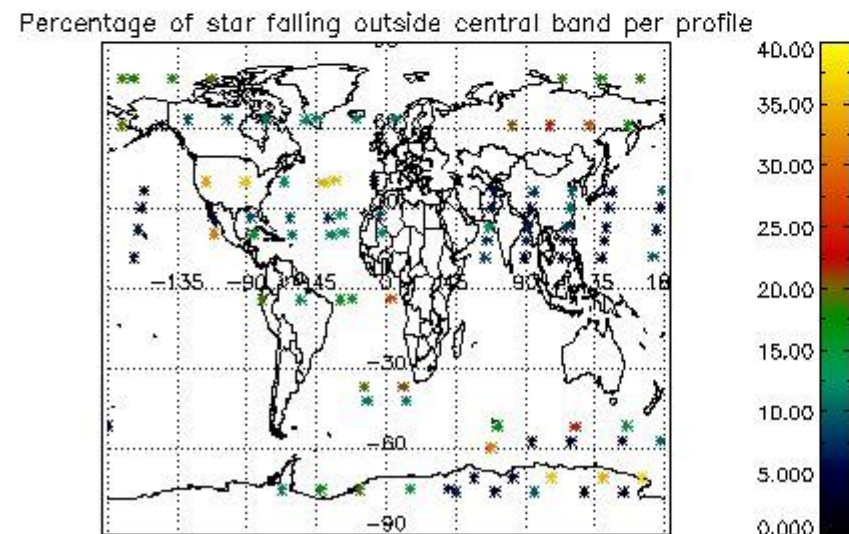
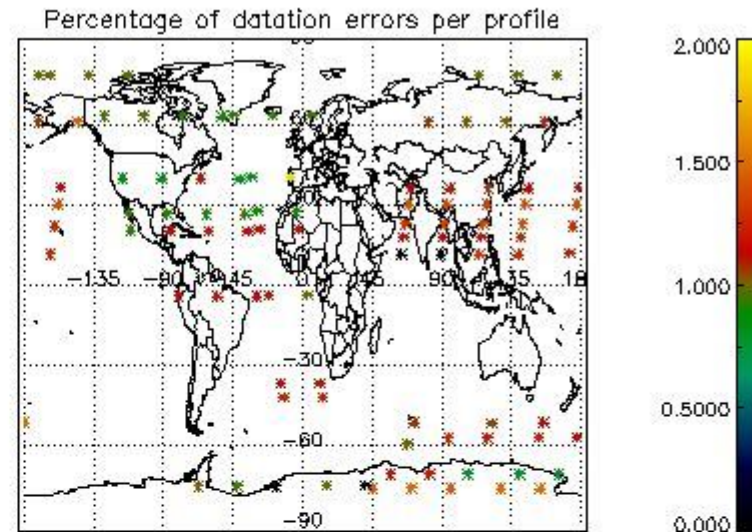
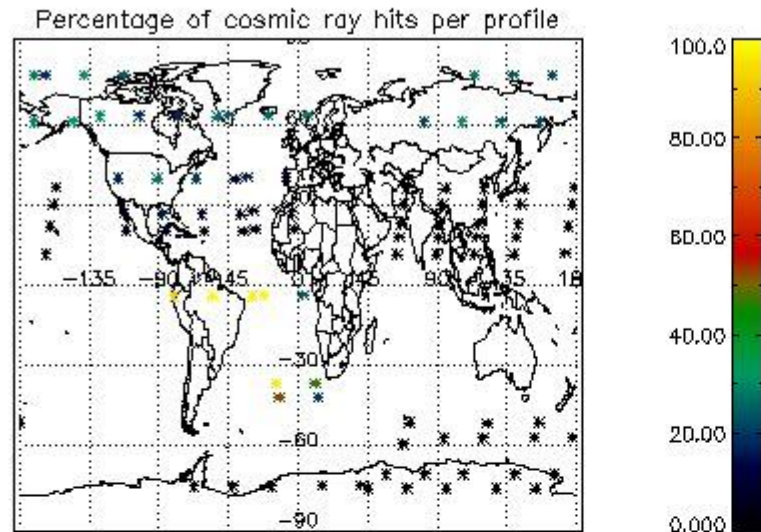
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	37.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



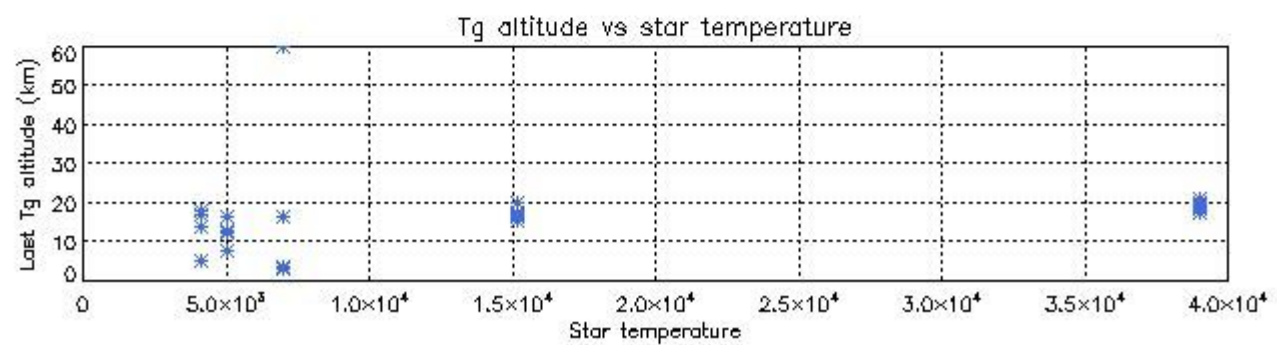
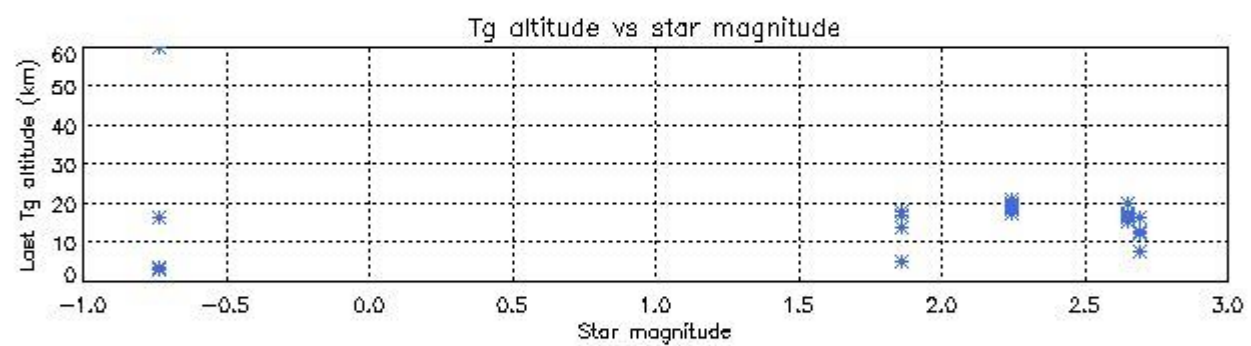
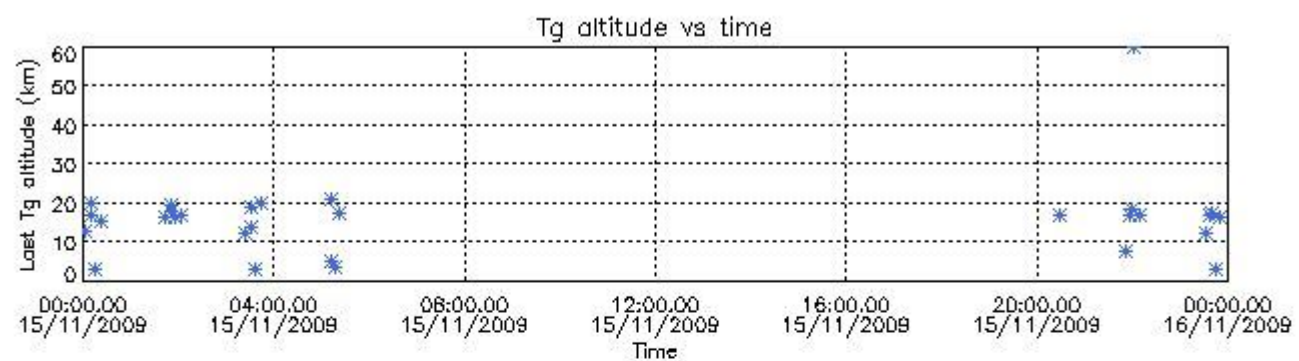
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.810	19.894	11.152
St. deviation:	10.014	6.2037	0.66225
Maximum:	59.993	36.947	11.621
Minimum:	3.0538	3.6101	10.684
Number of data:	30.000	52.000	2.0000

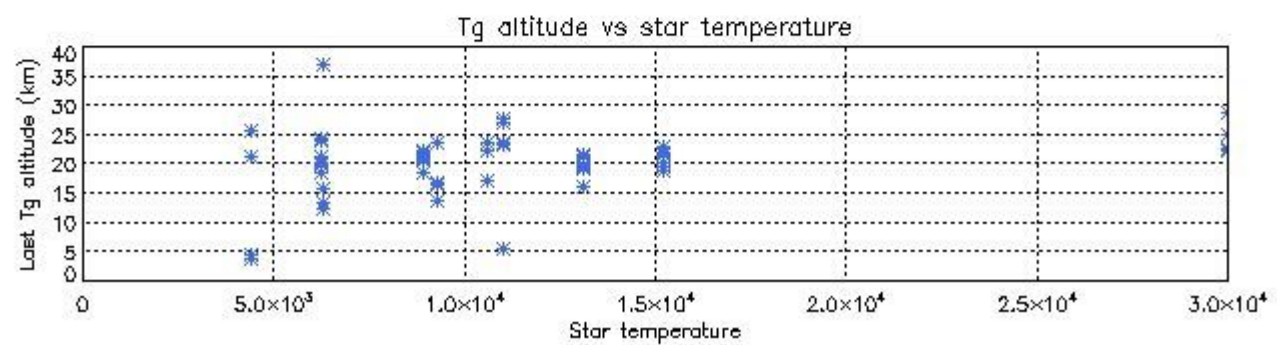
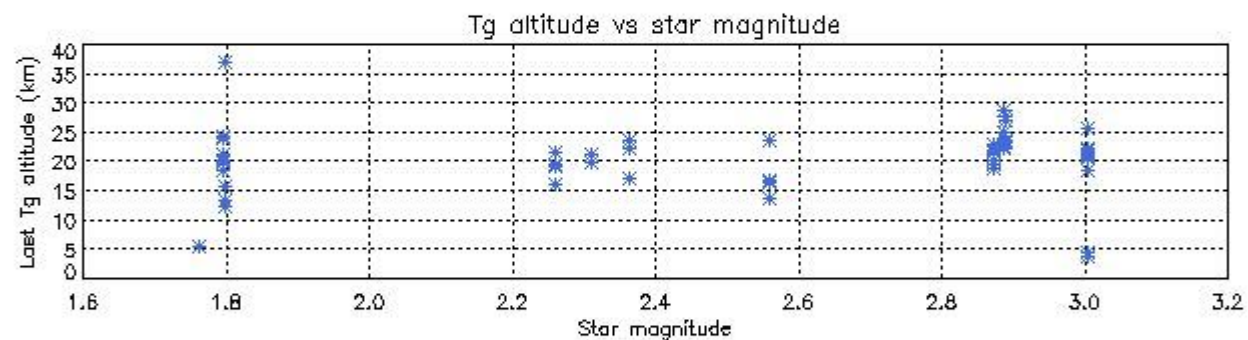
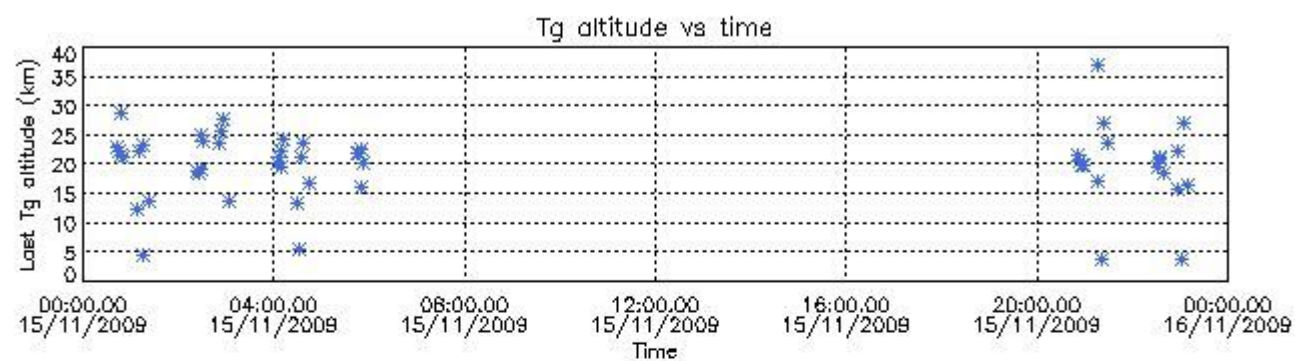
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



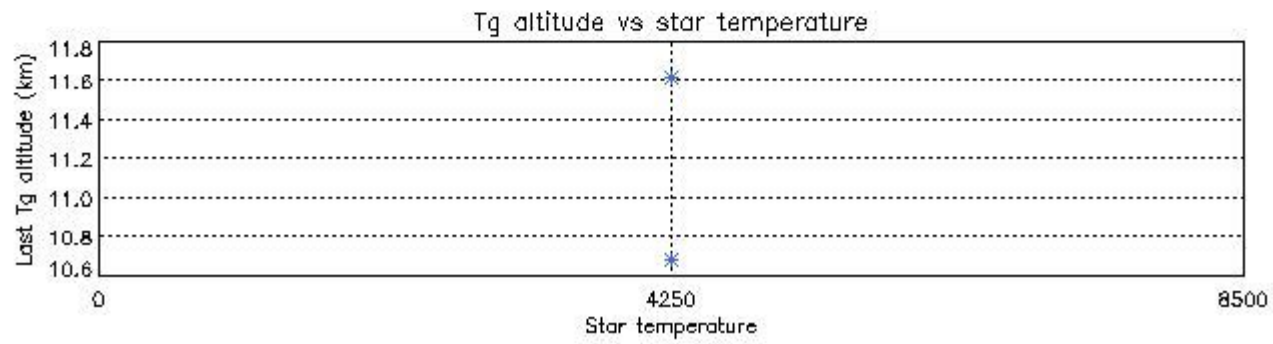
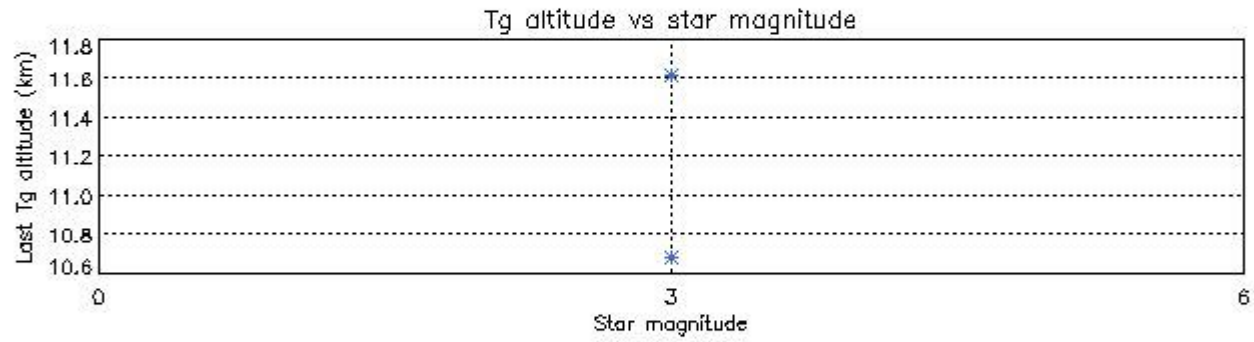
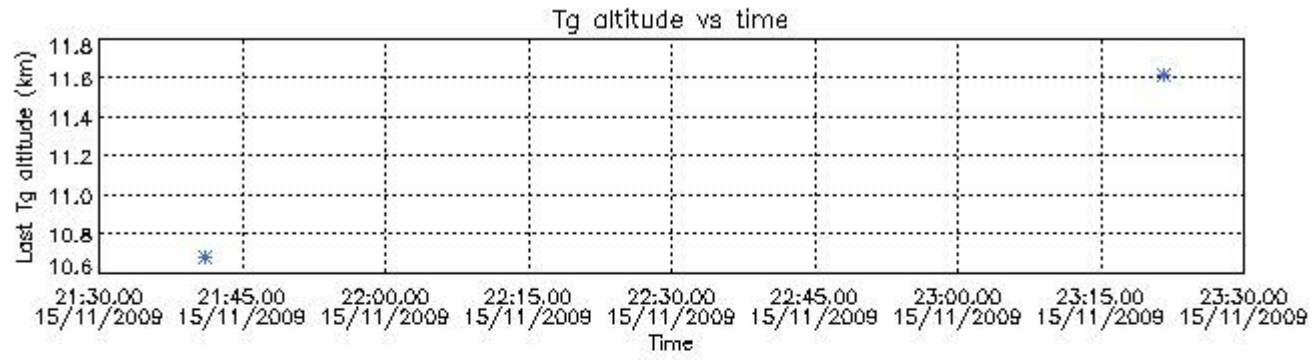
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

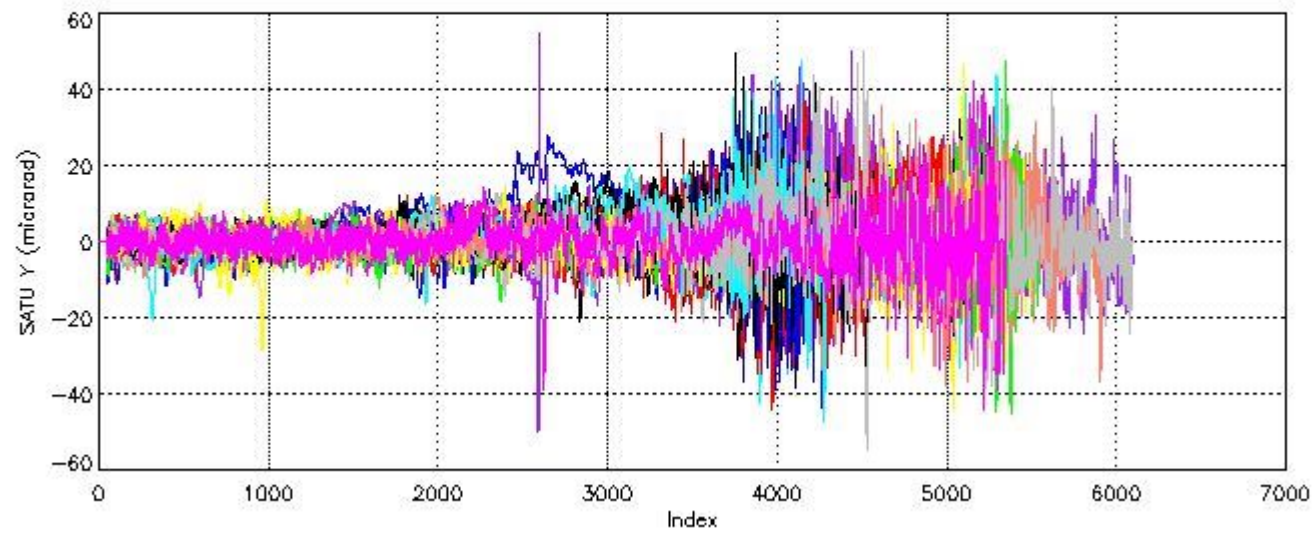
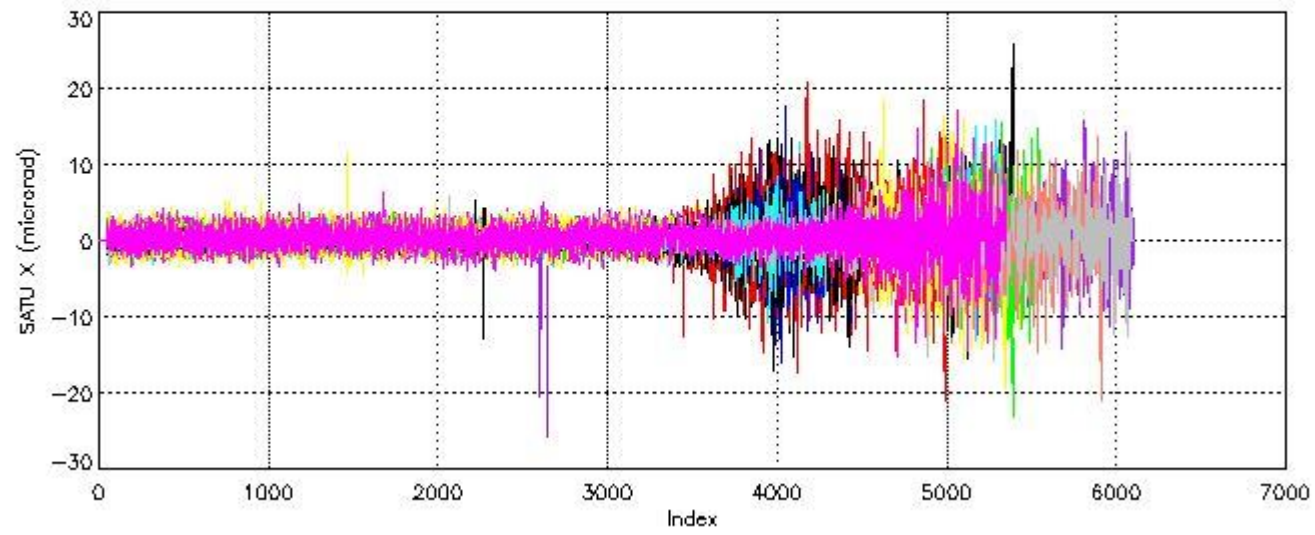


7. Star Acquisition and Tracking Unit (SATU)

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:	0.21681	-0.45454	0.20035	-0.40224
St. deviation:	0.61797	2.6963	1.0933	2.7296
Maximum:	5.2000	11.100	7.7000	17.000
Minimum:	-3.8000	-28.500	-6.3000	-16.100

Number of data:	32450.	32450.	49700.	49700.
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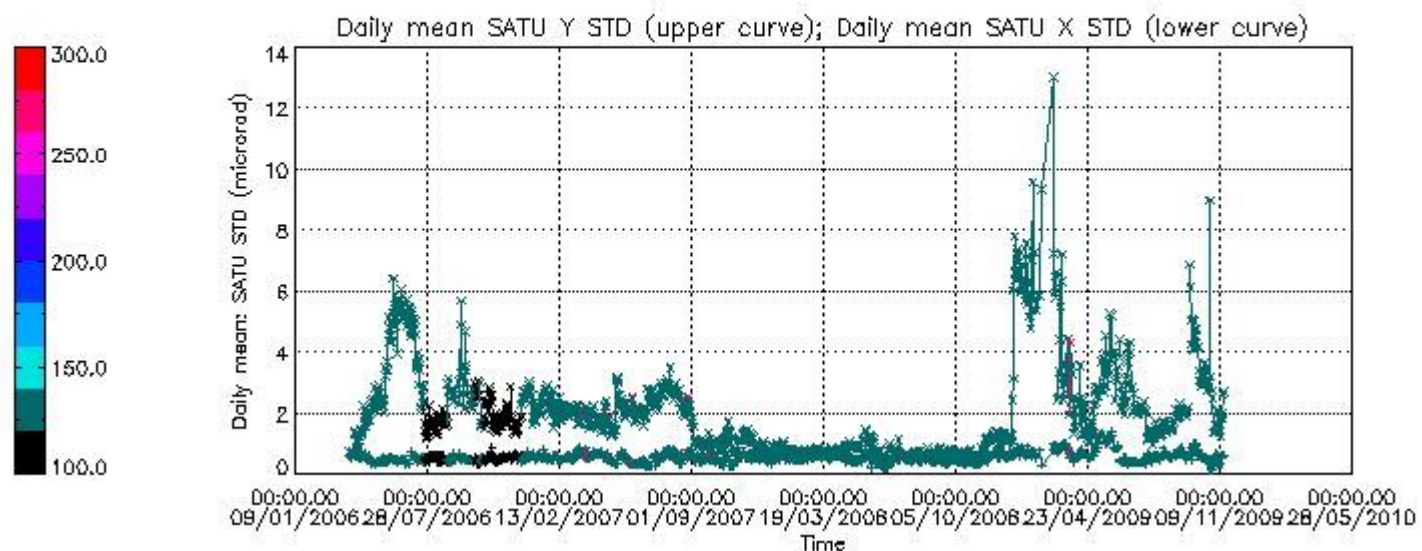
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

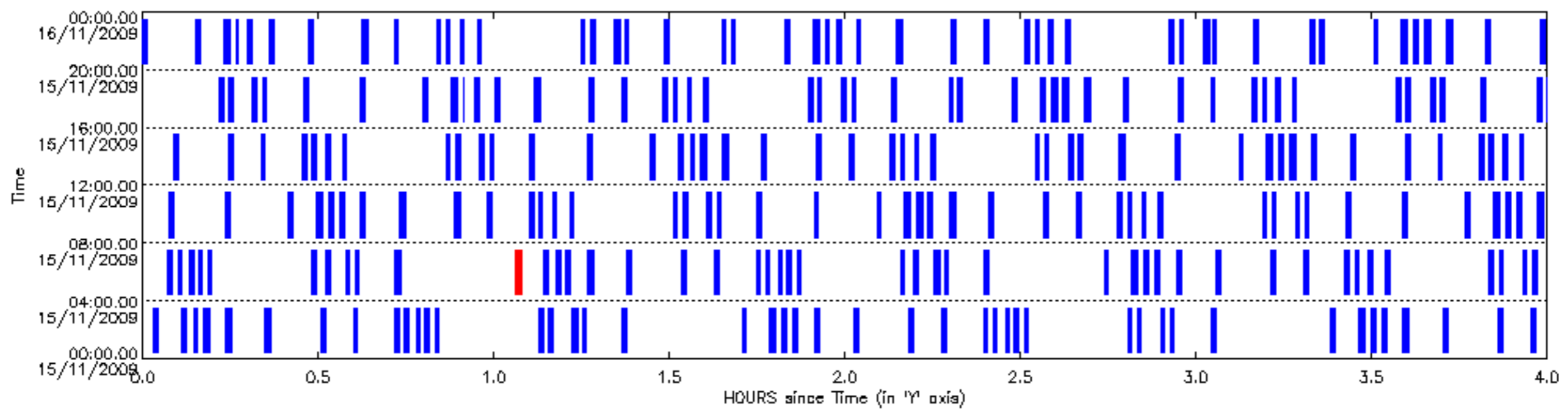
Lower curve: STD of SATU X axis

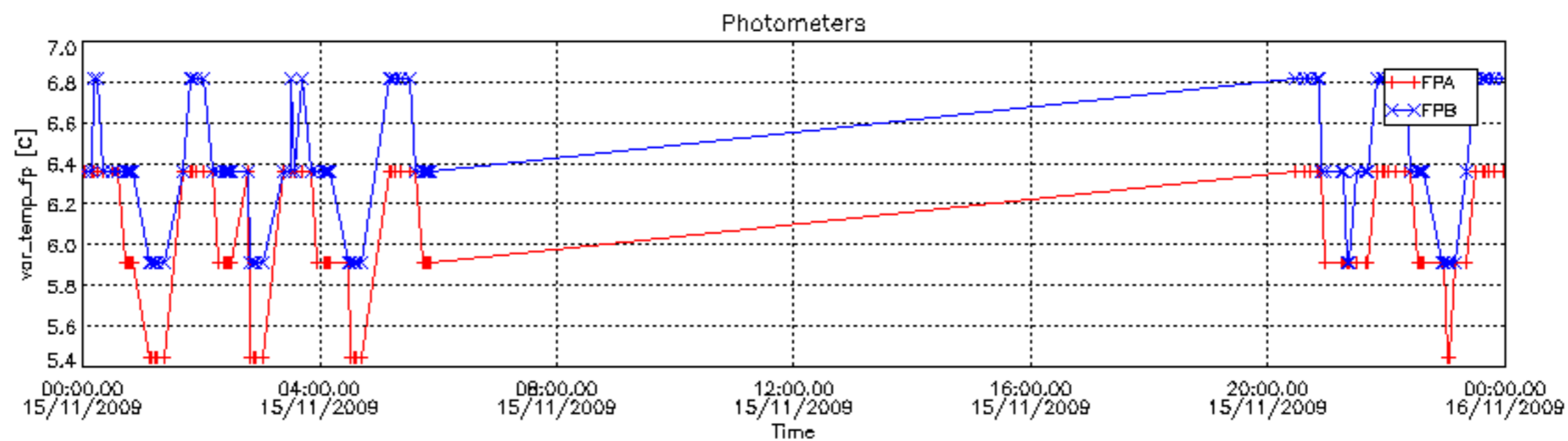
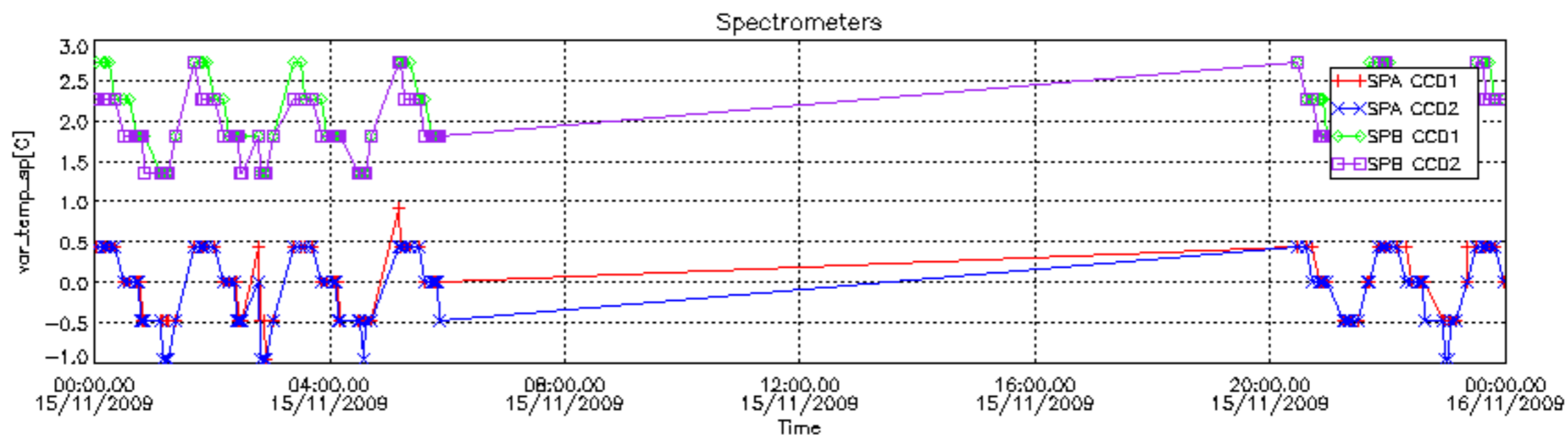


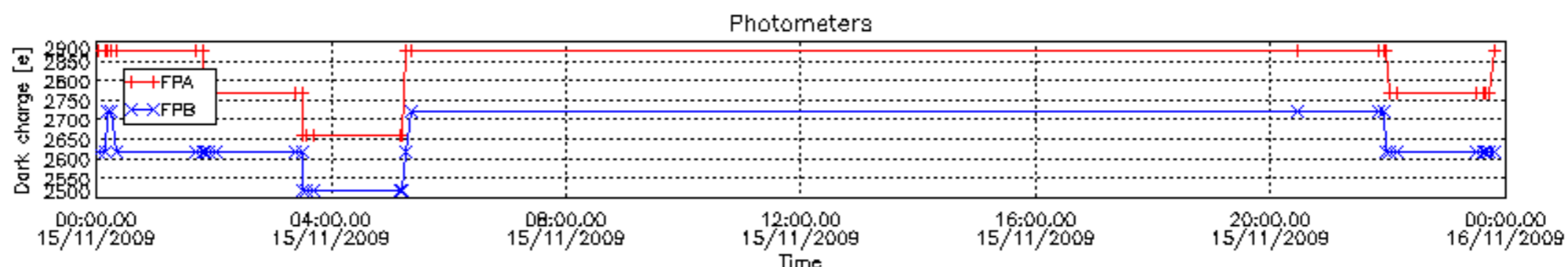
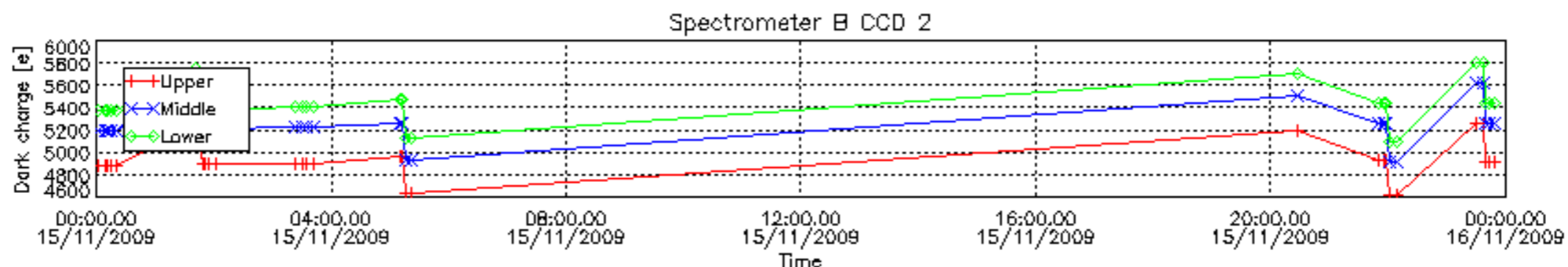
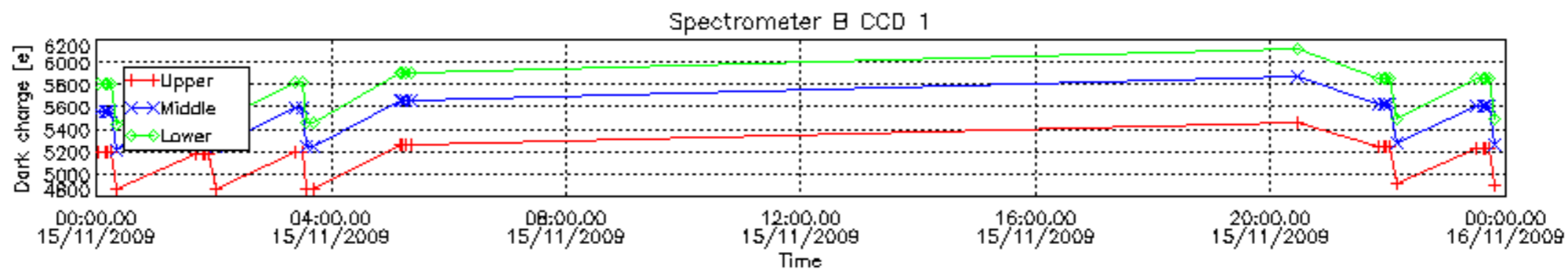
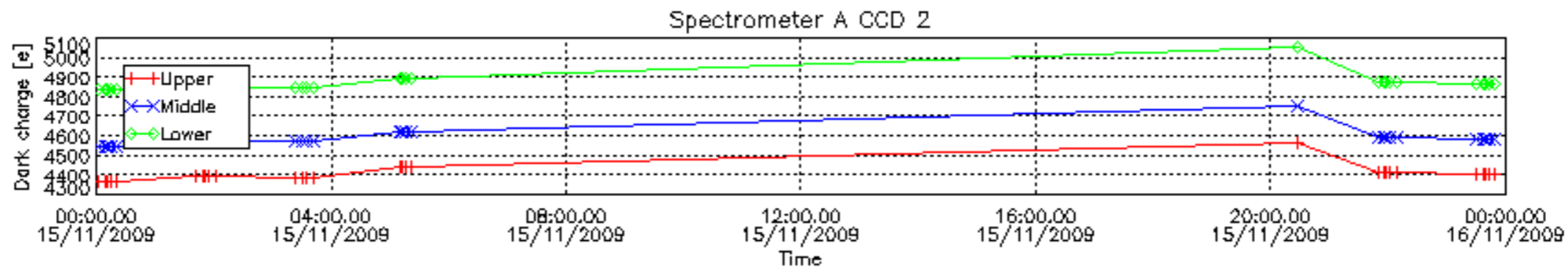
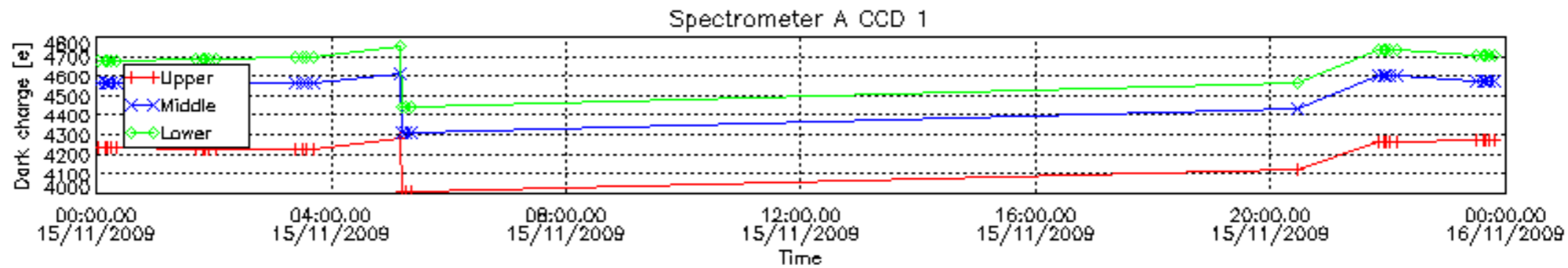
8. Auxiliary Data Files used for the production reported in section 2.4

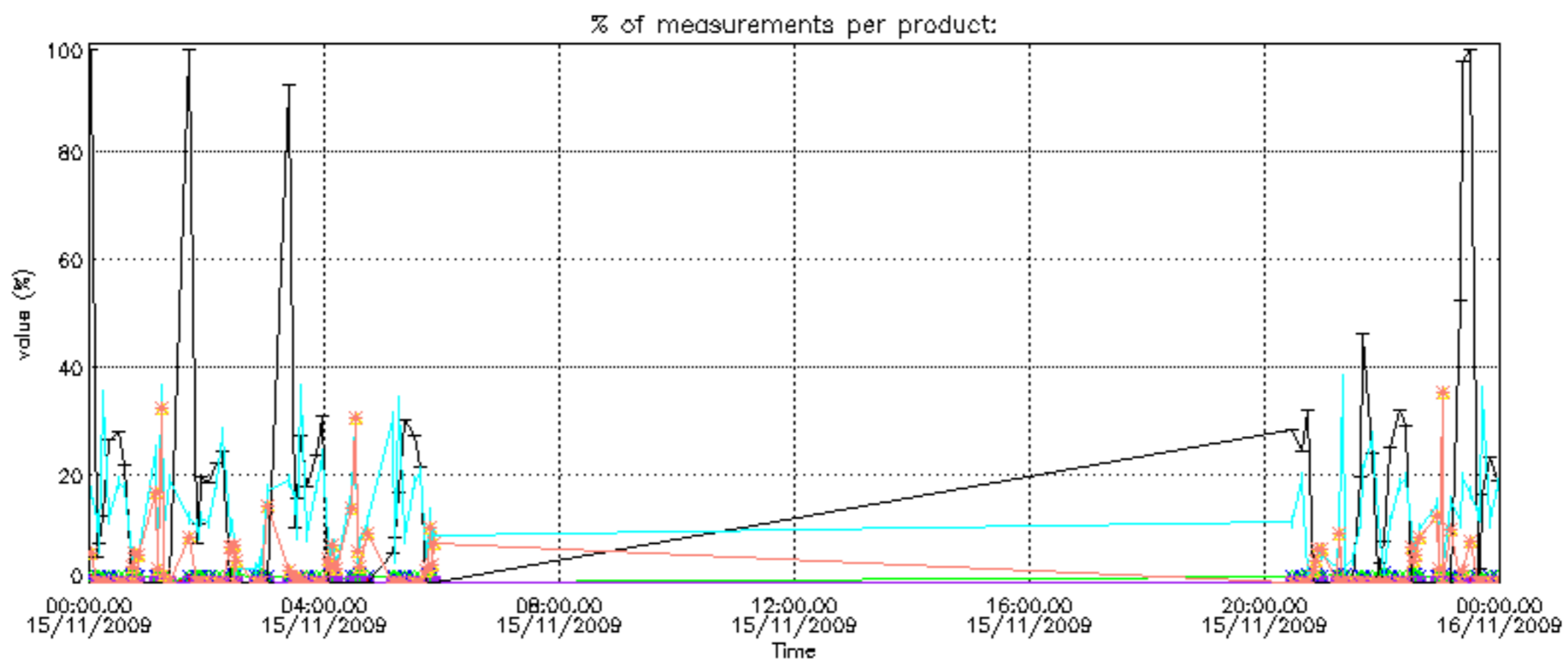
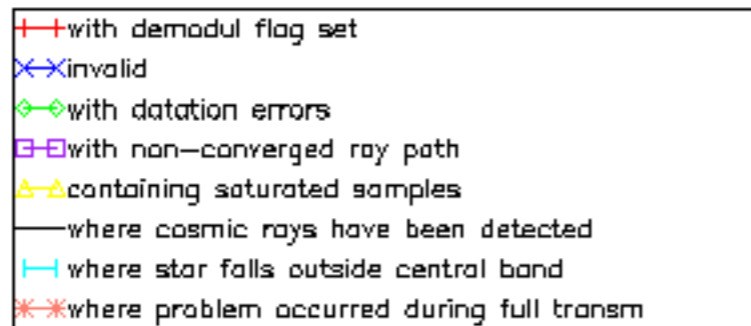
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	15-NOV-2009 00:01:49
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091106_091155_20091104_000000_20100101_000000	1	15-NOV-2009 00:01:49
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	15-NOV-2009 00:01:49
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	15-NOV-2009 00:01:49
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	15-NOV-2009 00:01:49
ECMWF_FILE	AUX_ECF_AXNECM20091114_144112_20091114_210000_20091115_090000	1	15-NOV-2009 00:01:49
ECMWF_FILE	AUX_ECF_AXNECM20091114_182110_20091115_030000_20091115_150000	47	15-NOV-2009 04:28:55
ECMWF_FILE	AUX_ECF_AXNECM20091115_064109_20091115_150000_20091116_030000	63	15-NOV-2009 20:28:12
ECMWF_FILE	AUX_ECA_AXNECM20091116_062111_20091115_210000_20091116_090000	75	15-NOV-2009 21:38:58
OPTIONAL_ECMWF_FILE	MISSING	1	15-NOV-2009 00:01:49
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091114_234651_000057382084_00173_40307_9168.N1	1	15-NOV-2009 00:01:49
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091115_012748_000044632084_00174_40308_9169.N1	18	15-NOV-2009 01:42:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091115_024730_000054192084_00175_40309_9170.N1	30	15-NOV-2009 02:48:19
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091115_042308_000057382084_00176_40310_9171.N1	47	15-NOV-2009 04:28:55
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091115_201930_000041442084_00186_40320_9172.N1	63	15-NOV-2009 20:28:12
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091115_213353_000057382084_00186_40320_9173.N1	75	15-NOV-2009 21:38:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091115_231450_000057382084_00187_40321_9174.N1	93	15-NOV-2009 23:19:34

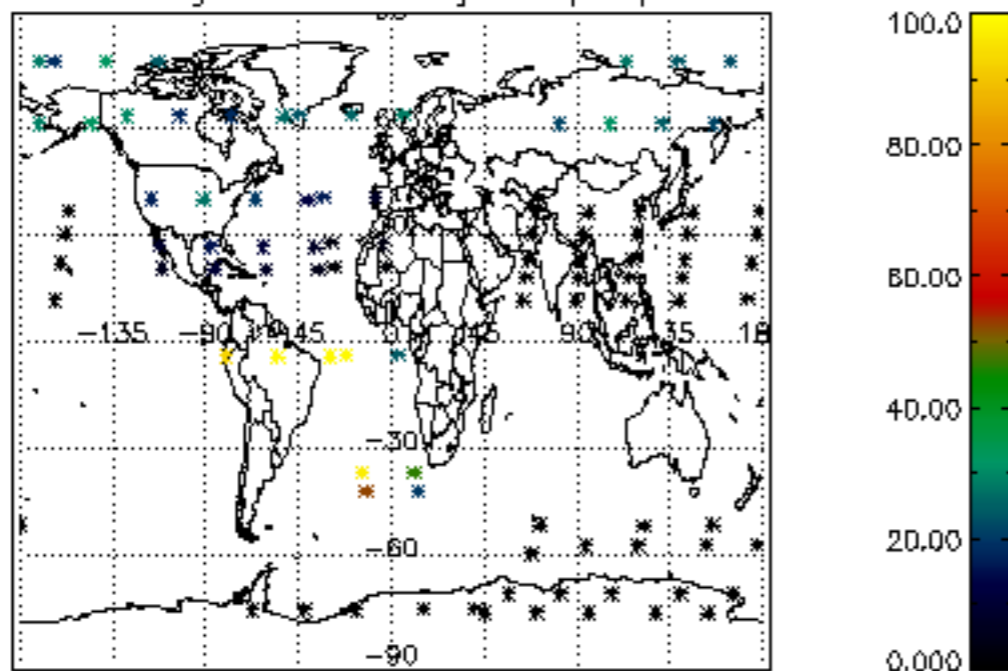




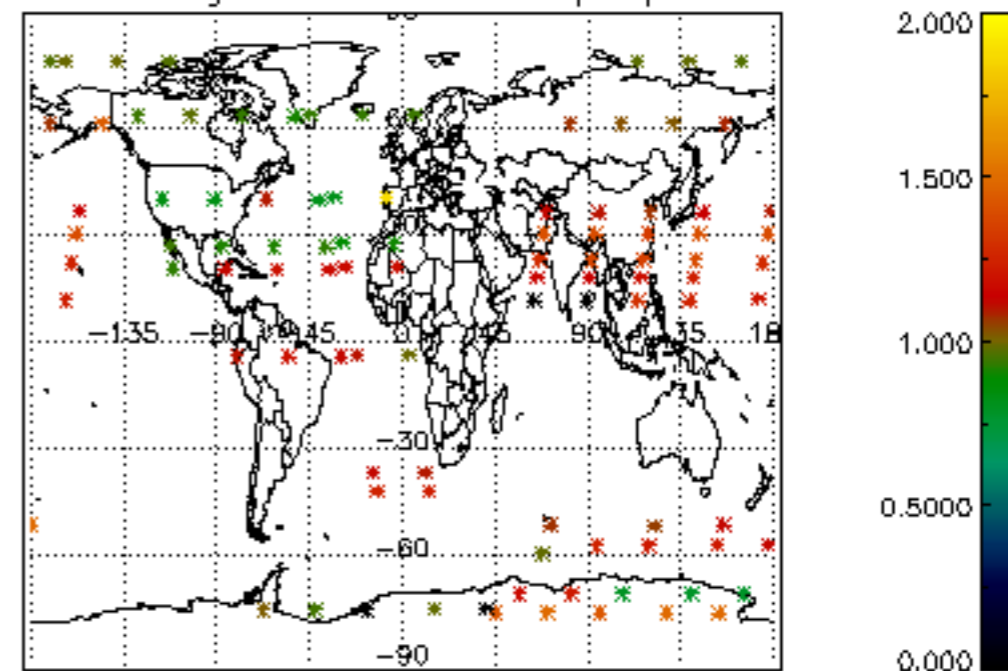




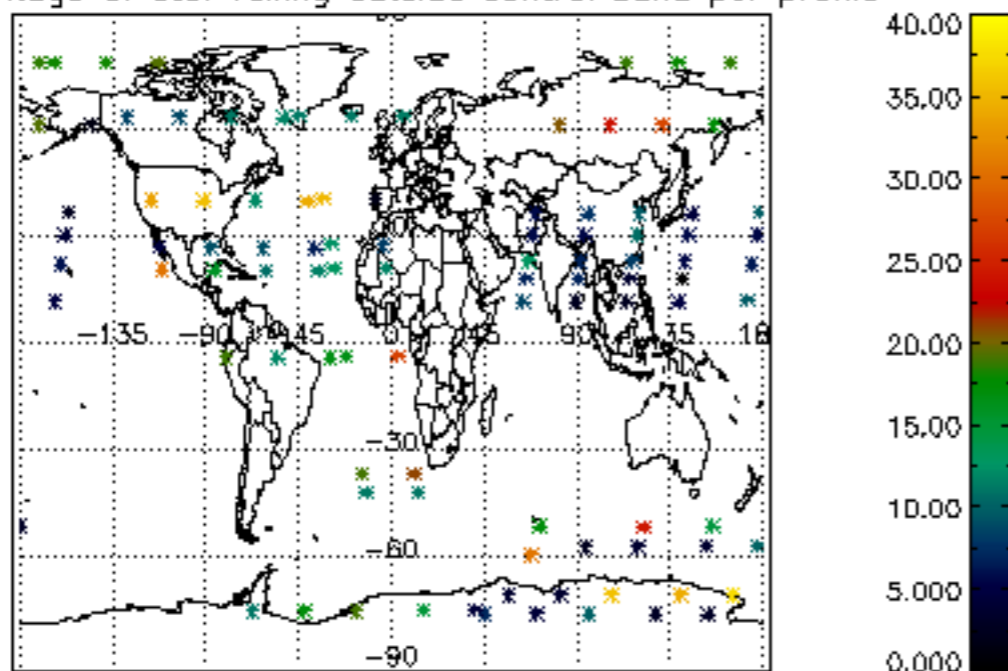
Percentage of cosmic ray hits per profile



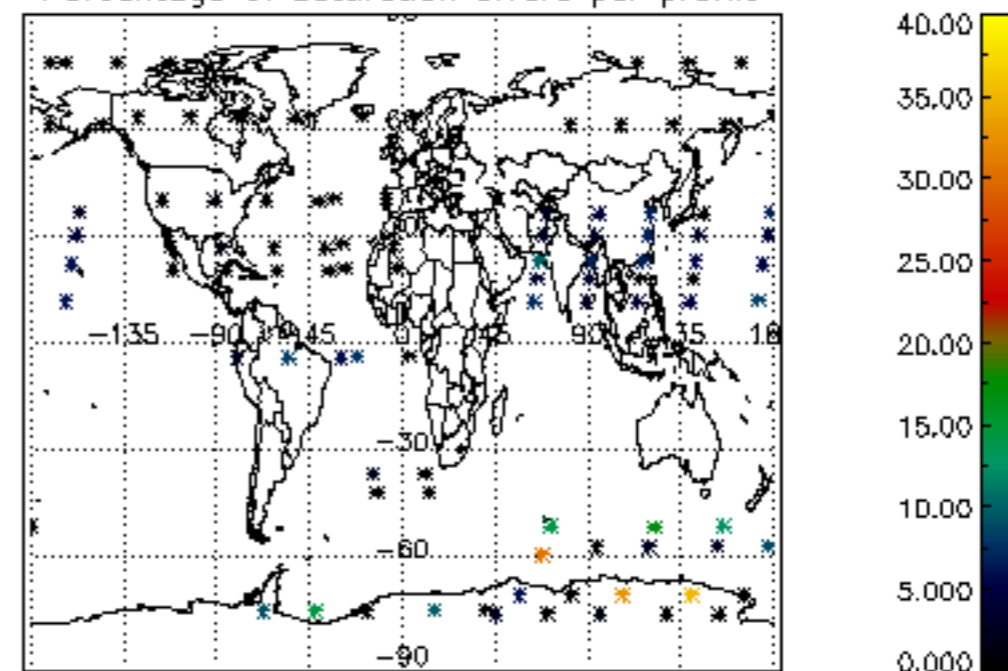
Percentage of datation errors per profile



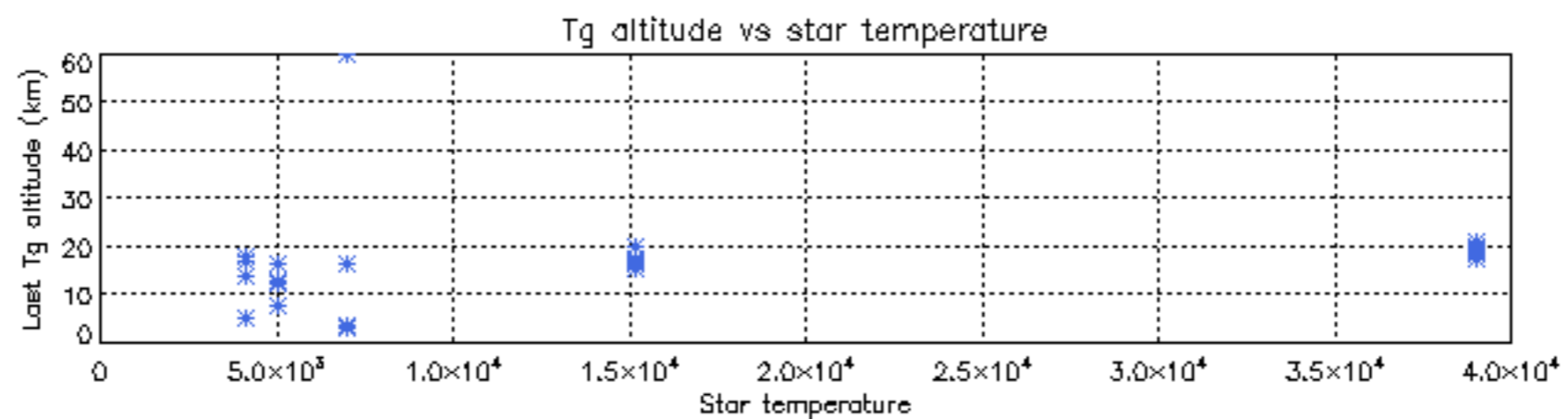
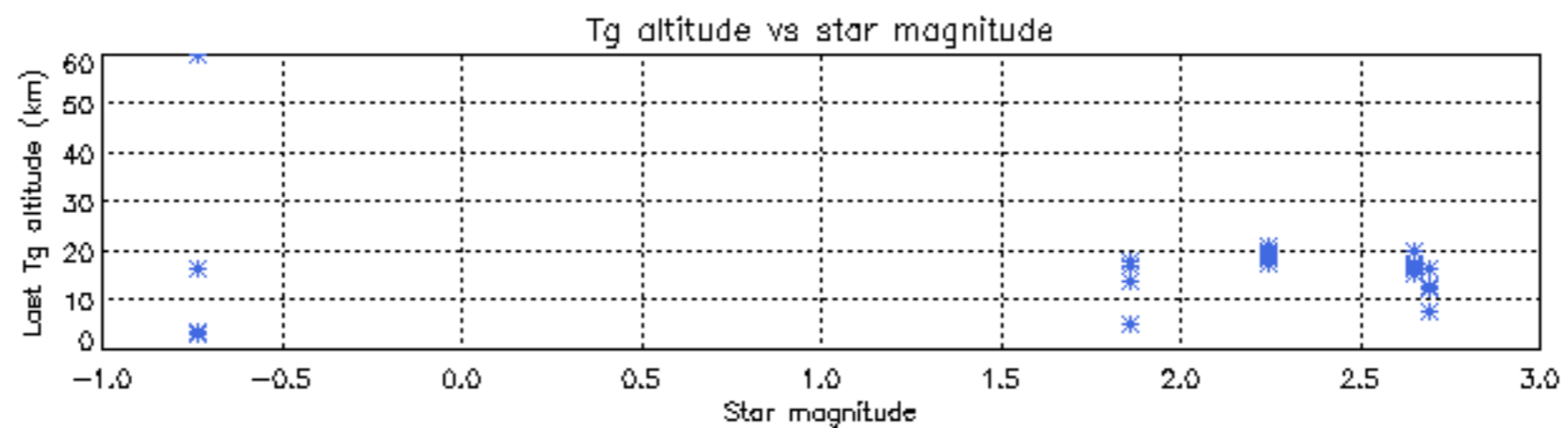
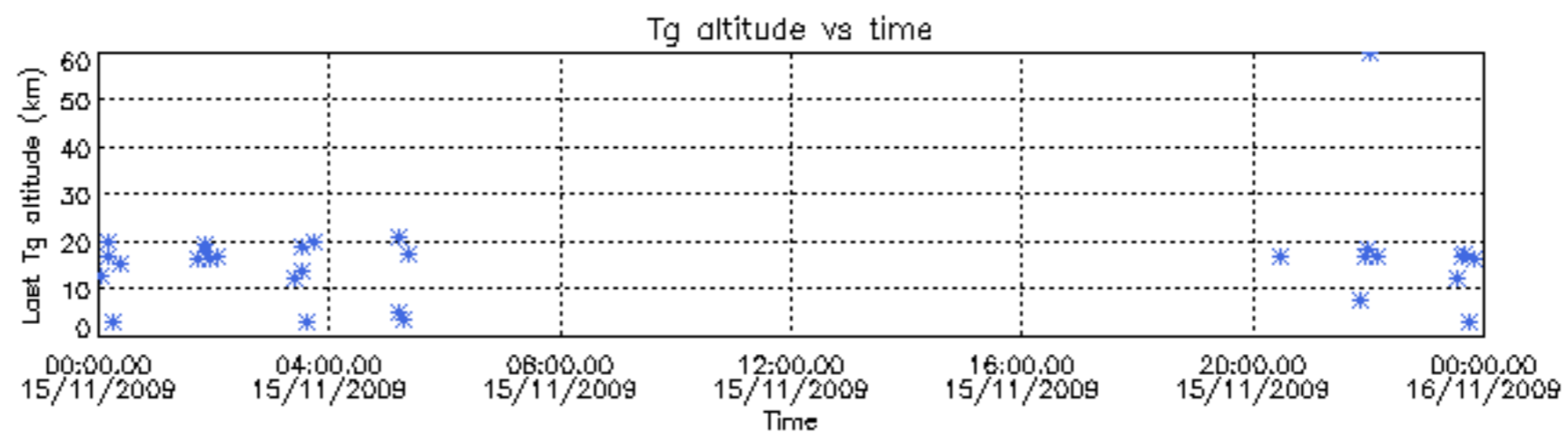
Percentage of star falling outside central band per profile



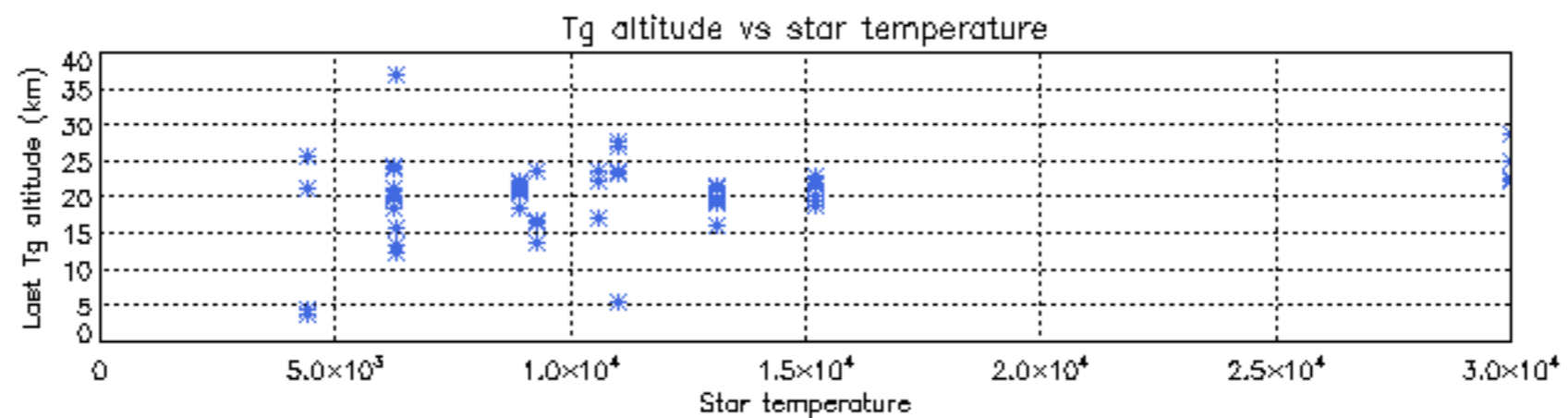
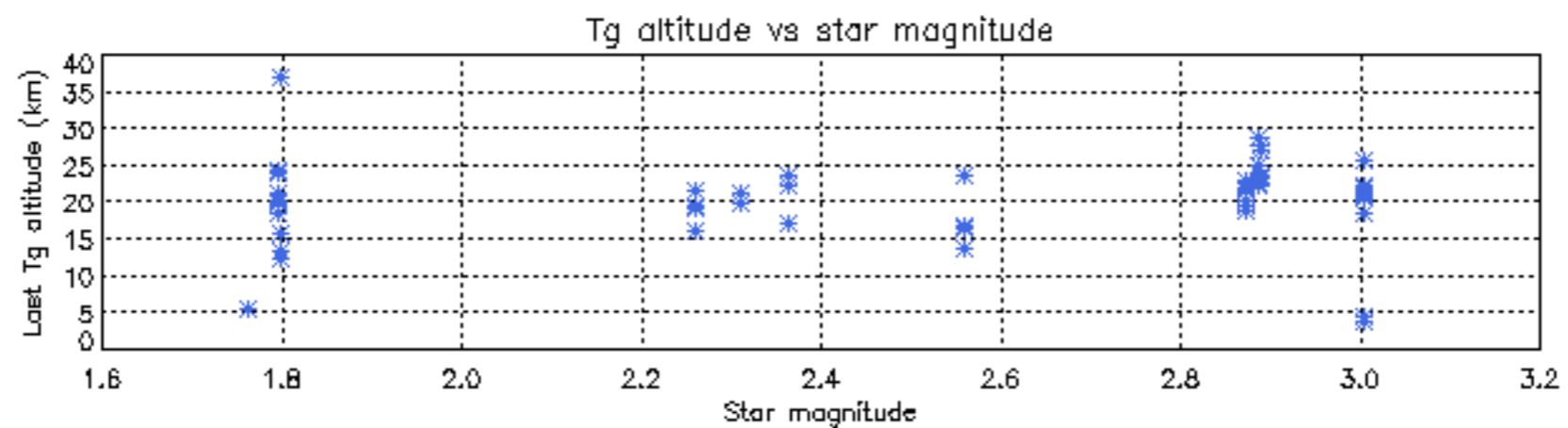
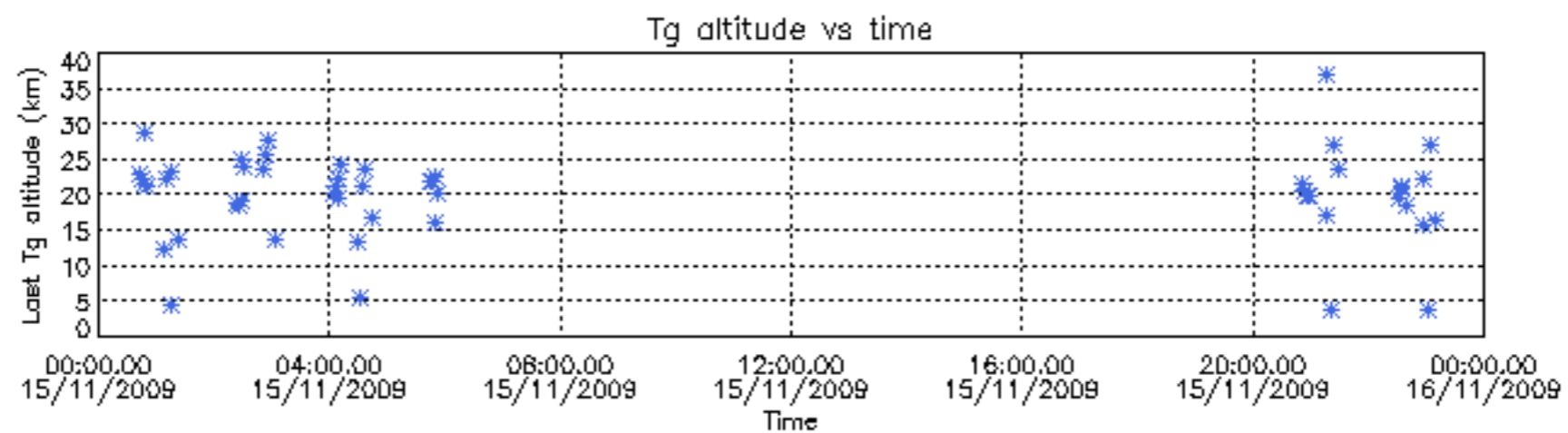
Percentage of saturation errors per profile



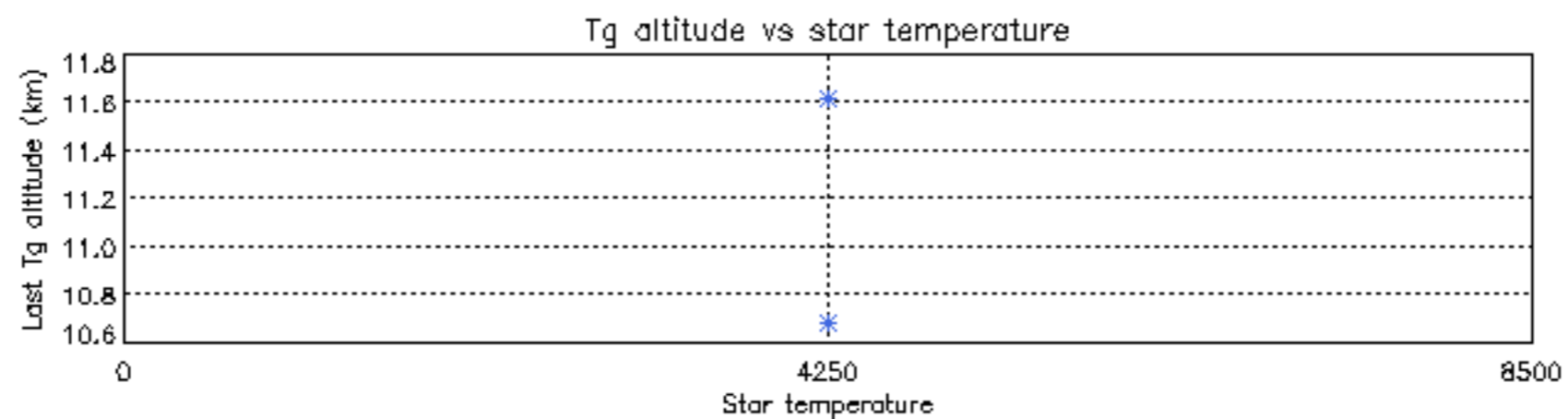
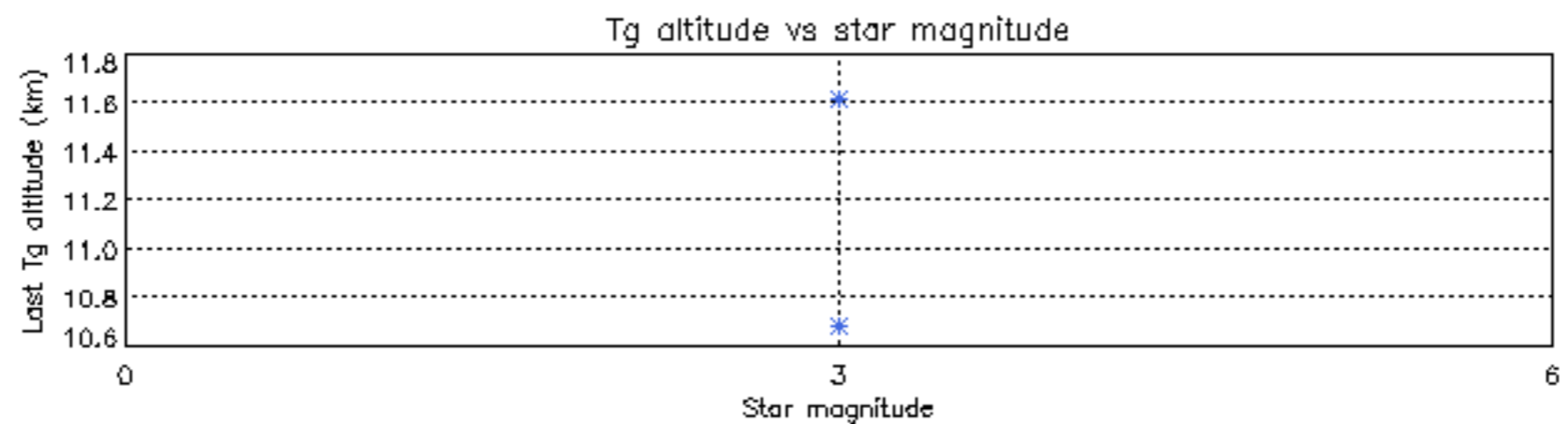
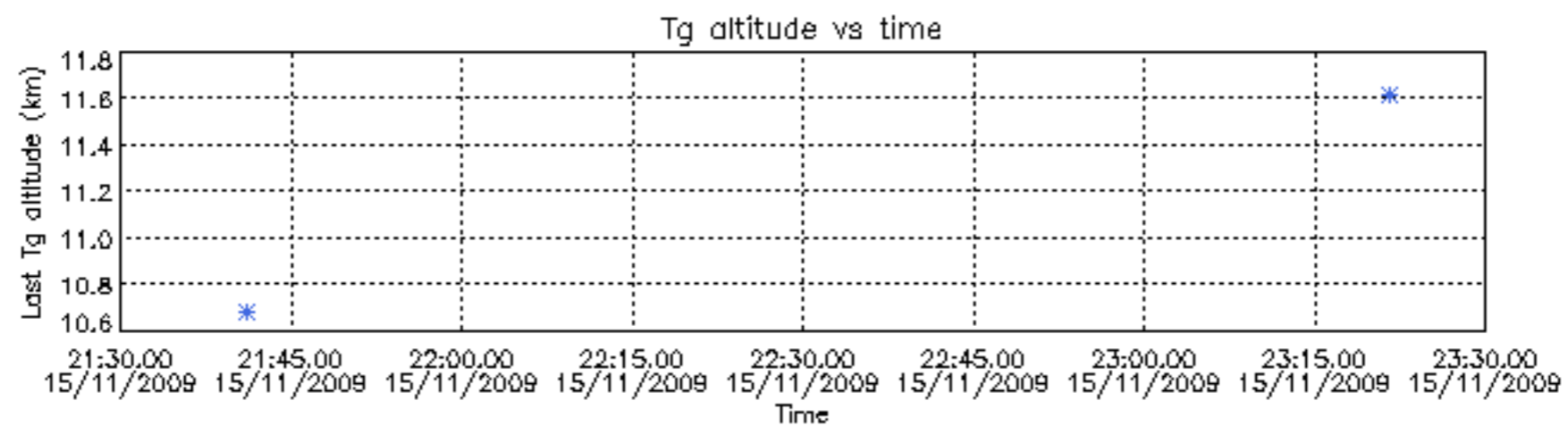
Tangent altitude at which the star is lost

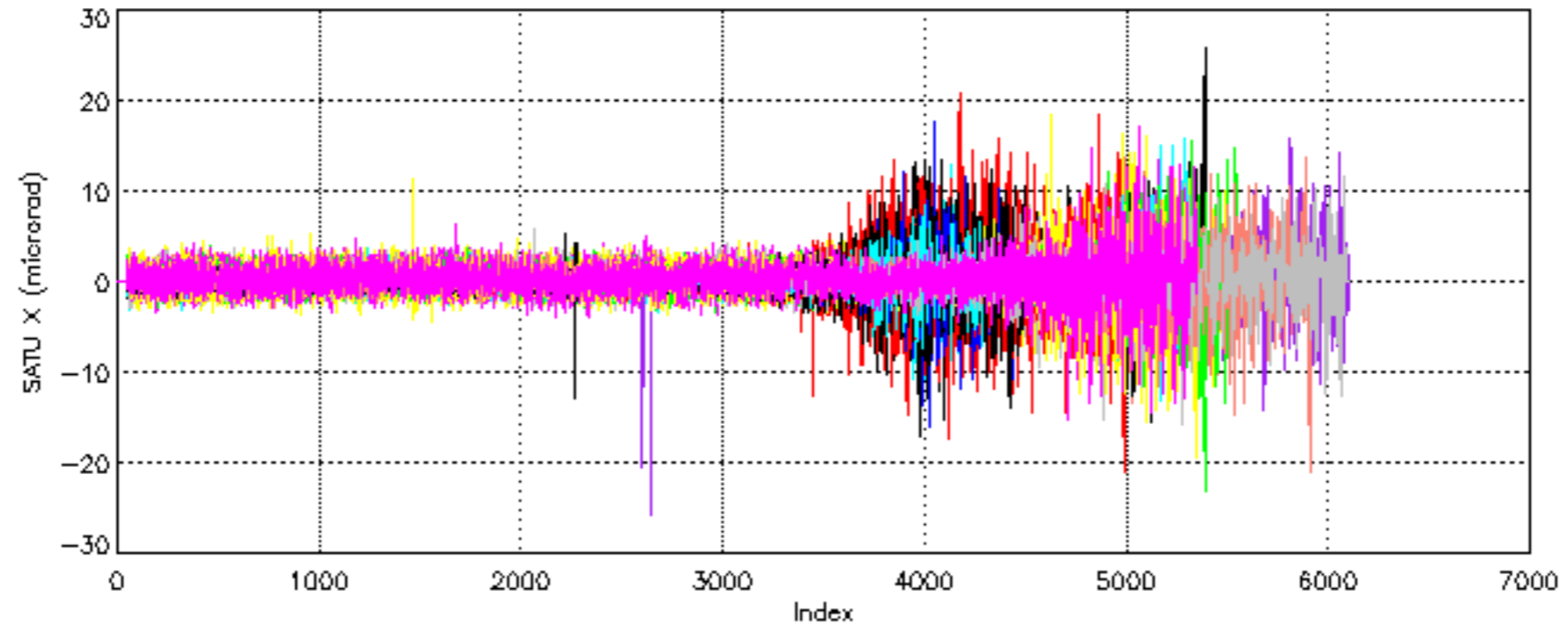


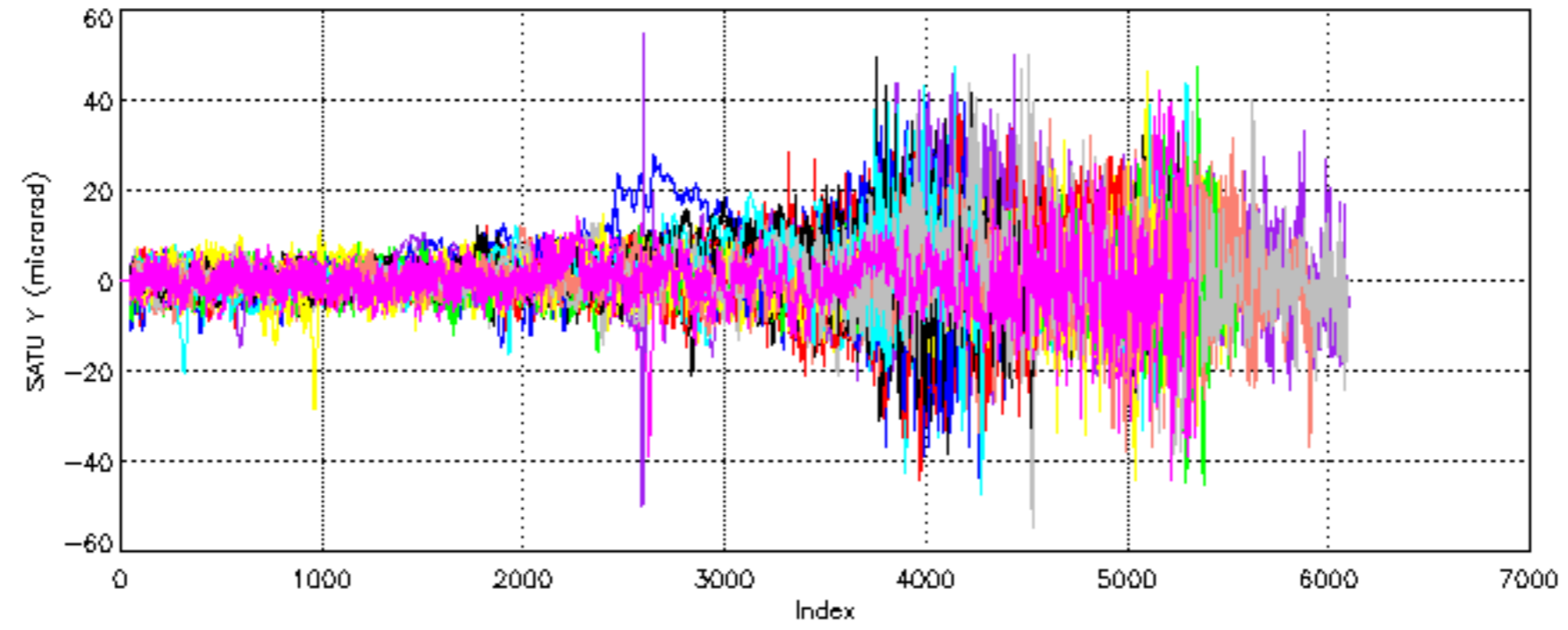
Tangent altitude at which the star is lost

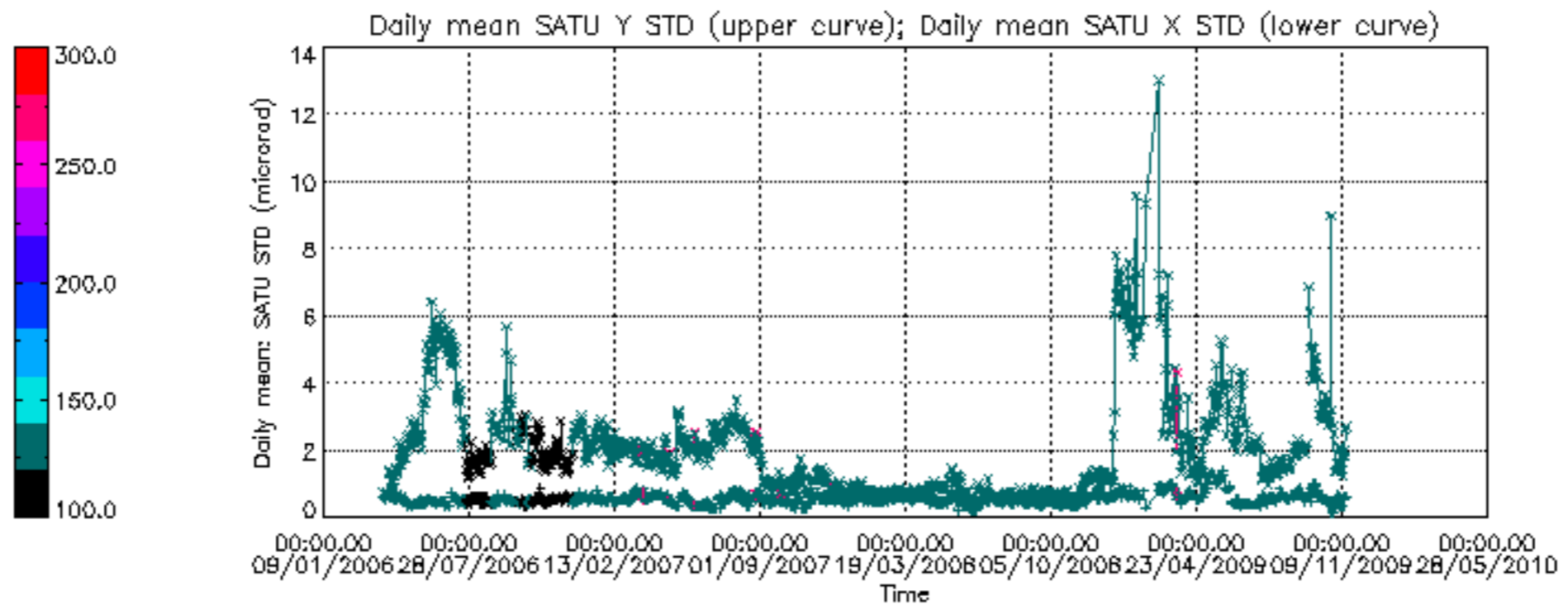


Tangent altitude at which the star is lost









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

1; -534.0; 01-NOV-2009 00:34:21; Dark ; 68.5; 48; 30Alp Hya ; 1.98; 4100;occ; 137; 0;40107
 2; -19.6; 01-NOV-2009 00:42:55; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;40107
 3; 197.6; 01-NOV-2009 00:46:32; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;40108
 4; 348.1; 01-NOV-2009 00:49:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40108
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 4; 349.0; 01-NOV-2009 02:29:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40109
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 6; 910.1; 01-NOV-2009 02:39:01; Dark ; 29.0; 108; Alp Col ; 2.65; 15200;occ; 58; 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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 11; 911.1; 01-NOV-2009 04:19:38; Dark ; 31.0; 108; Alp Col ; 2.65; 15200;occ; 62; 0;40110
 12; 2010.0; 01-NOV-2009 04:37:57; Dark ; 53.5; 94; 92Alp Cet ; 2.53; 3100;occ; 107; 0;40110
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 6; -529.7; 01-NOV-2009 05:36:13; Dark ; 59.0; 48; 30Alp Hya ; 1.98; 4100;occ; 118; 0;40110
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6; 2928.5; 01-NOV-2009 21:39:14; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;40120
7; 3910.8; 01-NOV-2009 21:55:37; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;40120
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9; 4229.7; 01-NOV-2009 22:00:56; Bright; 40.0; 174; 52Psi UMa ; 3.00; 4400;occ; 80; 0;40120
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4; 2659.8; 01-NOV-2009 09:50:34; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;40113
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 3; 2267.3; 04-NOV-2009 09:49:46; Bright; 39.0; 105; 6Bet Ari ; 2.64; 8900;occ; 78; 0;40156
 4; 2526.0; 04-NOV-2009 09:54:05; Bright; 38.0; 173; 4Bet Tri ; 3.00; 8900;occ; 76; 0;40156
 5; 2648.8; 04-NOV-2009 09:56:08; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;40156
 6; 2830.1; 04-NOV-2009 09:59:09; Bright; 49.0; 149; 45Eps Per ; 2.89; 30000;occ; 98; 0;40156
 7; 2911.8; 04-NOV-2009 10:00:31; Bright; 41.0; 160; 23Gam Per ; 2.93; 4700;occ; 82; 0;40156
 8; 3907.2; 04-NOV-2009 10:17:06; Bright; 42.0; 36; 50Alp UMA ; 1.80; 6300;occ; 84; 0;40156
 9; 4004.4; 04-NOV-2009 10:18:44; Bright; 37.0; 82; 48Bet UMA ; 2.37; 10600;occ; 74; 0;40156
10; 4229.8; 04-NOV-2009 10:22:29; Bright; 39.5; 174; 52Psi UMA ; 3.00; 4400;occ; 79; 0;40156
11; 4686.1; 04-NOV-2009 10:30:05; Bright; 40.5; 96; 68Del Leo ; 2.56; 9300;occ; 81; 0;40156
12; 4769.2; 04-NOV-2009 10:31:28; Bright; 45.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 109; 0;40156
13; 4971.1; 04-NOV-2009 10:34:50; Dark ; 63.5; 22; 32Alp Leo ; 1.36; 15200;occ; 127; 0;40156
14; 6060.0; 04-NOV-2009 10:52:59; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;40156
15; 6205.1; 04-NOV-2009 10:55:24; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;40156
16; 6294.8; 04-NOV-2009 10:56:54; Dark ; 53.5; 70; Zet Pup ; 2.25; 39000;occ; 107; 0;40156
17; 6429.9; 04-NOV-2009 10:59:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40156
18; 6598.0; 04-NOV-2009 11:01:57; Dark ; 47.5; 2; Alp Car ;-0.74; 7000;occ; 95; 0;40156
19; 6991.7; 04-NOV-2009 11:08:31; Dark ; 57.5; 108; Alp Col ; 2.65; 15200;occ; 115; 0;40156
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 3; 2266.8; 04-NOV-2009 11:30:22; Bright; 37.0; 105; 6Bet Ari ; 2.64; 8900;occ; 74; 0;40157
 4; 2525.8; 04-NOV-2009 11:34:41; Bright; 37.5; 173; 4Bet Tri ; 3.00; 8900;occ; 75; 0;40157
 5; 2648.4; 04-NOV-2009 11:36:43; Bright; 55.0; 73; 57Gam1And ; 2.26; 13100;occ; 110; 0;40157
 6; 2829.2; 04-NOV-2009 11:39:44; Bright; 49.0; 149; 45Eps Per ; 2.89; 30000;occ; 98; 0;40157
 7; 2911.1; 04-NOV-2009 11:41:06; Bright; 40.0; 160; 23Gam Per ; 2.93; 4700;occ; 80; 0;40157
 8; 3906.9; 04-NOV-2009 11:57:42; Bright; 40.5; 36; 50Alp UMA ; 1.80; 6300;occ; 81; 0;40157

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

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 3; 2267.0; 04-NOV-2009 13:10:58; Bright; 37.5; 105; 6Bet Ari ; 2.64; 8900;occ; 75; 0;40158
 4; 2525.4; 04-NOV-2009 13:15:16; Bright; 38.0; 173; 4Bet Tri ; 3.00; 8900;occ; 76; 0;40158
 5; 2648.5; 04-NOV-2009 13:17:19; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;40158
 6; 2828.3; 04-NOV-2009 13:20:19; Bright; 50.5; 149; 45Eps Per ; 2.89; 30000;occ; 101; 0;40158
 7; 2910.8; 04-NOV-2009 13:21:42; Bright; 41.0; 160; 23Gam Per ; 2.93; 4700;occ; 82; 0;40158
 8; 3906.9; 04-NOV-2009 13:38:18; Bright; 40.5; 36; 50Alp UMa ; 1.80; 6300;occ; 81; 0;40158
 9; 4004.1; 04-NOV-2009 13:39:55; Bright; 40.0; 82; 48Bet UMA ; 2.37; 10600;occ; 80; 0;40158
 10; 4229.8; 04-NOV-2009 13:43:41; Bright; 38.5; 174; 52Psi UMA ; 3.00; 4400;occ; 77; 0;40158
 11; 4686.8; 04-NOV-2009 13:51:18; Bright; 38.5; 96; 68Del Leo ; 2.56; 9300;occ; 77; 0;40158
 12; 4770.1; 04-NOV-2009 13:52:41; Bright; 57.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 115; 0;40158
 13; 4972.4; 04-NOV-2009 13:56:03; Dark ; 61.5; 22; 32Alp Leo ; 1.36; 15200;occ; 123; 0;40158
 14; 6061.7; 04-NOV-2009 14:14:13; Dark ; 52.0; 65; Lam Vel ; 2.20; 4400;occ; 104; 0;40158
 15; 6206.6; 04-NOV-2009 14:16:37; Dark ; 50.5; 46; Del Vel ; 1.95; 10600;occ; 101; 0;40158
 16; 6297.2; 04-NOV-2009 14:18:08; Dark ; 53.0; 70; Zet Pup ; 2.25; 39000;occ; 106; 0;40158
 17; 6431.8; 04-NOV-2009 14:20:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40158
 18; 6599.5; 04-NOV-2009 14:23:10; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;40158
 19; 6993.3; 04-NOV-2009 14:29:44; Dark ; 61.0; 108; Alp Col ; 2.65; 15200;occ; 122; 0;40158

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 3; 2266.6; 04-NOV-2009 14:51:33; Bright; 39.5; 105; 6Bet Ari ; 2.64; 8900;occ; 79; 0;40159
 4; 2525.1; 04-NOV-2009 14:55:52; Bright; 39.0; 173; 4Bet Tri ; 3.00; 8900;occ; 78; 0;40159
 5; 2648.0; 04-NOV-2009 14:57:55; Bright; 40.5; 73; 57Gam1And ; 2.26; 13100;occ; 81; 0;40159
 6; 2827.4; 04-NOV-2009 15:00:54; Bright; 51.0; 149; 45Eps Per ; 2.89; 30000;occ; 102; 0;40159
 7; 2910.4; 04-NOV-2009 15:02:17; Bright; 41.0; 160; 23Gam Per ; 2.93; 4700;occ; 82; 0;40159
 8; 3906.9; 04-NOV-2009 15:18:54; Bright; 41.5; 36; 50Alp UMa ; 1.80; 6300;occ; 83; 0;40159
 9; 4004.0; 04-NOV-2009 15:20:31; Bright; 37.5; 82; 48Bet UMA ; 2.37; 10600;occ; 75; 0;40159
 10; 4229.7; 04-NOV-2009 15:24:16; Bright; 38.5; 174; 52Psi UMA ; 3.00; 4400;occ; 77; 0;40159
 11; 4687.1; 04-NOV-2009 15:31:54; Bright; 53.0; 96; 68Del Leo ; 2.56; 9300;occ; 106; 0;40159
 12; 4770.8; 04-NOV-2009 15:33:18; Bright; 53.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 106; 0;40159
 13; 4973.4; 04-NOV-2009 15:36:40; Dark ; 64.5; 22; 32Alp Leo ; 1.36; 15200;occ; 129; 0;40159
 14; 6062.8; 04-NOV-2009 15:54:50; Dark ; 54.0; 65; Lam Vel ; 2.20; 4400;occ; 108; 0;40159
 15; 6207.4; 04-NOV-2009 15:57:14; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;40159
 16; 6298.5; 04-NOV-2009 15:58:45; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40159
 17; 6432.8; 04-NOV-2009 16:01:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40159
 18; 6600.4; 04-NOV-2009 16:03:47; Dark ; 55.0; 2; Alp Car ; -0.74; 7000;occ; 110; 0;40159
 19; 6994.4; 04-NOV-2009 16:10:21; Dark ; 61.0; 108; Alp Col ; 2.65; 15200;occ; 122; 0;40159

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 3; 2266.7; 04-NOV-2009 16:32:09; Bright; 39.5; 105; 6Bet Ari ; 2.64; 8900;occ; 79; 0;40160
 4; 2525.0; 04-NOV-2009 16:36:28; Bright; 56.0; 173; 4Bet Tri ; 3.00; 8900;occ; 112; 0;40160
 5; 2647.9; 04-NOV-2009 16:38:31; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;40160
 6; 2826.4; 04-NOV-2009 16:41:29; Bright; 49.5; 149; 45Eps Per ; 2.89; 30000;occ; 99; 0;40160
 7; 3906.8; 04-NOV-2009 16:59:30; Bright; 42.0; 36; 50Alp UMa ; 1.80; 6300;occ; 84; 0;40160
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 9; 4229.8; 04-NOV-2009 17:04:53; Bright; 39.0; 174; 52Psi UMA ; 3.00; 4400;occ; 78; 0;40160
 10; 4687.4; 04-NOV-2009 17:12:30; Bright; 39.0; 96; 68Del Leo ; 2.56; 9300;occ; 78; 0;40160
 11; 4771.1; 04-NOV-2009 17:13:54; Bright; 53.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 107; 0;40160
 12; 4974.2; 04-NOV-2009 17:17:17; Dark ; 75.5; 22; 32Alp Leo ; 1.36; 15200;occ; 151; 0;40160
 13; 6063.8; 04-NOV-2009 17:35:27; Dark ; 53.5; 65; Lam Vel ; 2.20; 4400;occ; 107; 0;40160
 14; 6208.1; 04-NOV-2009 17:37:51; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;40160
 15; 6299.7; 04-NOV-2009 17:39:22; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40160
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3; 2266.5; 04-NOV-2009 18:12:45; Bright; 37.5; 105; 6Bet Ari ; 2.64; 8900;occ; 75; 0;40161
4; 2524.7; 04-NOV-2009 18:17:03; Bright; 38.0; 173; 4Bet Tri ; 3.00; 8900;occ; 76; 0;40161
5; 2647.8; 04-NOV-2009 18:19:07; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;40161
6; 2825.5; 04-NOV-2009 18:22:04; Bright; 47.5; 149; 45Eps Per ; 2.89; 30000;occ; 95; 0;40161
7; 3906.6; 04-NOV-2009 18:40:05; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;40161
8; 4003.7; 04-NOV-2009 18:41:42; Bright; 40.5; 82; 48Bet UMa ; 2.37; 10600;occ; 81; 0;40161
9; 4229.7; 04-NOV-2009 18:45:28; Bright; 57.0; 174; 52Psi UMa ; 3.00; 4400;occ; 114; 0;40161
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13; 6064.6; 04-NOV-2009 19:16:03; Dark ; 58.0; 65; Lam Vel ; 2.20; 4400;occ; 116; 0;40161
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16; 6434.7; 04-NOV-2009 19:22:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40161
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3; 1996.3; 04-NOV-2009 19:48:51; Dark ; 53.5; 94; 92Alp Cet ; 2.53; 3100;occ; 107; 0;40162
4; 2266.6; 04-NOV-2009 19:53:21; Bright; 38.5; 105; 6Bet Ari ; 2.64; 8900;occ; 77; 0;40162
5; 2524.4; 04-NOV-2009 19:57:39; Bright; 38.5; 173; 4Bet Tri ; 3.00; 8900;occ; 77; 0;40162
6; 2647.4; 04-NOV-2009 19:59:42; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;40162
7; 2824.6; 04-NOV-2009 20:02:39; Bright; 64.0; 149; 45Eps Per ; 2.89; 30000;occ; 128; 0;40162
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9; 4003.6; 04-NOV-2009 20:22:18; Bright; 42.0; 82; 48Bet UMa ; 2.37; 10600;occ; 84; 0;40162
10; 4229.9; 04-NOV-2009 20:26:05; Bright; 39.5; 174; 52Psi UMa ; 3.00; 4400;occ; 79; 0;40162
11; 4688.0; 04-NOV-2009 20:33:43; Bright; 41.0; 96; 68Del Leo ; 2.56; 9300;occ; 82; 0;40162
12; 4771.9; 04-NOV-2009 20:35:07; Bright; 73.0; 51; 41Gam1Leo ; 2.01; 4500;occ; 146; 0;40162
13; 4975.4; 04-NOV-2009 20:38:30; Dark ; 64.0; 22; 32Alp Leo ; 1.36; 15200;occ; 128; 0;40162
14; 6065.4; 04-NOV-2009 20:56:40; Dark ; 56.5; 65; Lam Vel ; 2.20; 4400;occ; 113; 0;40162
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16; 6302.0; 04-NOV-2009 21:00:37; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40162
17; 6435.5; 04-NOV-2009 21:02:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40162
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3; 268.5; 05-NOV-2009 00:21:51; Dark ; 53.5; 70; Zet Pup ; 2.25; 39000;occ; 107; 0;40165
4; 401.5; 05-NOV-2009 00:24:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40165
5; 568.0; 05-NOV-2009 00:26:50; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;40165
6; 962.8; 05-NOV-2009 00:33:25; Dark ; 59.5; 108; Alp Col ; 2.65; 15200;occ; 119; 0;40165
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8; 1995.6; 05-NOV-2009 00:50:38; Dark ; 52.5; 94; 92Alp Cet ; 2.53; 3100;occ; 105; 0;40165
9; 2266.2; 05-NOV-2009 00:55:09; Bright; 37.5; 105; 6Bet Ari ; 2.64; 8900;occ; 75; 0;40165
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11; 2646.8; 05-NOV-2009 01:01:29; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;40165
12; 2821.7; 05-NOV-2009 01:04:24; Bright; 50.0; 149; 45Eps Per ; 2.89; 30000;occ; 100; 0;40165
13; 3906.0; 05-NOV-2009 01:22:28; Bright; 43.0; 36; 50Alp UMa ; 1.80; 6300;occ; 86; 0;40165
14; 4003.3; 05-NOV-2009 01:24:06; Bright; 41.0; 82; 48Bet UMa ; 2.37; 10600;occ; 82; 0;40165
15; 4229.6; 05-NOV-2009 01:27:52; Bright; 39.0; 174; 52Psi UMa ; 3.00; 4400;occ; 78; 0;40165
16; 4688.7; 05-NOV-2009 01:35:31; Bright; 40.5; 96; 68Del Leo ; 2.56; 9300;occ; 81; 0;40165
17; 4773.3; 05-NOV-2009 01:36:56; Bright; 58.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 117; 0;40165
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3; 269.9; 05-NOV-2009 02:02:28; Dark ; 51.0; 70; Zet Pup ; 2.25; 39000;occ; 102; 0;40166
4; 402.4; 05-NOV-2009 02:04:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40166
5; 568.6; 05-NOV-2009 02:07:27; Dark ; 50.0; 2; Alp Car ; -0.74; 7000;occ; 100; 0;40166
6; 963.9; 05-NOV-2009 02:14:02; Dark ; 57.5; 108; Alp Col ; 2.65; 15200;occ; 115; 0;40166
7; 1633.9; 05-NOV-2009 02:25:12; Dark ; 57.5; 165; 34Gam Eri ; 2.95; 3200;occ; 115; 0;40166
8; 1995.5; 05-NOV-2009 02:31:14; Dark ; 52.5; 94; 92Alp Cet ; 2.53; 3100;occ; 105; 0;40166
9; 2266.1; 05-NOV-2009 02:35:44; Bright; 38.5; 105; 6Bet Ari ; 2.64; 8900;occ; 77; 0;40166

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 2; 1994.1; 05-NOV-2009 14:15:24; Dark ; 51.5; 94; 92Alp Cet ; 2.53; 3100;occ; 103; 0;40173
 3; 2269.1; 05-NOV-2009 14:19:59; Bright; 35.0; 105; 6Bet Ari ; 2.64; 8900;occ; 70; 0;40173
 4; 2522.2; 05-NOV-2009 14:24:12; Bright; 37.5; 173; 4Bet Tri ; 3.00; 8900;occ; 75; 0;40173
 5; 2645.4; 05-NOV-2009 14:26:15; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;40173
 6; 2814.8; 05-NOV-2009 14:29:05; Bright; 50.0; 149; 45Eps Per ; 2.89; 30000;occ; 100; 0;40173
 7; 3905.2; 05-NOV-2009 14:47:15; Bright; 40.0; 36; 50Alp UMa ; 1.80; 6300;occ; 80; 0;40173
 8; 4002.7; 05-NOV-2009 14:48:52; Bright; 39.5; 82; 48Bet UMa ; 2.37; 10600;occ; 79; 0;40173
 9; 4229.8; 05-NOV-2009 14:52:40; Bright; 39.5; 174; 52Psi UMa ; 3.00; 4400;occ; 79; 0;40173
 10; 4691.4; 05-NOV-2009 15:00:21; Bright; 60.0; 96; 68Del Leo ; 2.56; 9300;occ; 120; 0;40173
 11; 4984.0; 05-NOV-2009 15:05:14; Dark ; 66.0; 22; 32Alp Leo ; 1.36; 15200;occ; 132; 0;40173
 12; 6075.9; 05-NOV-2009 15:23:26; Dark ; 47.0; 65; Lam Vel ; 2.20; 4400;occ; 94; 0;40173
 13; 6217.4; 05-NOV-2009 15:25:47; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;40173
 14; 6315.6; 05-NOV-2009 15:27:25; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40173
 15; 6445.8; 05-NOV-2009 15:29:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40173
 16; 6611.0; 05-NOV-2009 15:32:21; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;40173
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 3; 2317.4; 05-NOV-2009 16:01:23; Bright; 40.0; 50; 13Alp Ari ; 2.01; 4250;occ; 80; 0;40174
 4; 2521.9; 05-NOV-2009 16:04:48; Bright; 37.5; 173; 4Bet Tri ; 3.00; 8900;occ; 75; 0;40174
 5; 2645.1; 05-NOV-2009 16:06:51; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;40174
 6; 2813.9; 05-NOV-2009 16:09:40; Bright; 49.5; 149; 45Eps Per ; 2.89; 30000;occ; 99; 0;40174
 7; 3905.1; 05-NOV-2009 16:27:51; Bright; 40.0; 36; 50Alp UMa ; 1.80; 6300;occ; 80; 0;40174
 8; 4002.5; 05-NOV-2009 16:29:28; Bright; 40.5; 82; 48Bet UMa ; 2.37; 10600;occ; 81; 0;40174
 9; 4229.9; 05-NOV-2009 16:33:16; Bright; 38.0; 174; 52Psi UMa ; 3.00; 4400;occ; 76; 0;40174
 10; 4691.6; 05-NOV-2009 16:40:57; Bright; 47.5; 96; 68Del Leo ; 2.56; 9300;occ; 95; 0;40174
 11; 4984.7; 05-NOV-2009 16:45:50; Dark ; 66.5; 22; 32Alp Leo ; 1.36; 15200;occ; 133; 0;40174
 12; 6076.7; 05-NOV-2009 17:04:03; Dark ; 48.5; 65; Lam Vel ; 2.20; 4400;occ; 97; 0;40174
 13; 6217.9; 05-NOV-2009 17:06:24; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;40174
 14; 6316.9; 05-NOV-2009 17:08:03; Dark ; 51.5; 70; Zet Pup ; 2.25; 39000;occ; 103; 0;40174
 15; 6446.7; 05-NOV-2009 17:10:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40174
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 2; 1634.2; 05-NOV-2009 17:30:36; Dark ; 59.0; 165; 34Gam Eri ; 2.95; 3200;occ; 118; 0;40175
 3; 1993.7; 05-NOV-2009 17:36:36; Dark ; 50.5; 94; 92Alp Cet ; 2.53; 3100;occ; 101; 0;40175


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5; 2521.7; 05-NOV-2009 17:45:24; Bright; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;40175
6; 2644.8; 05-NOV-2009 17:47:27; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;40175
7; 2813.0; 05-NOV-2009 17:50:15; Bright; 49.5; 149; 45Eps Per ; 2.89; 30000;occ; 99; 0;40175
8; 3904.9; 05-NOV-2009 18:08:27; Bright; 42.0; 36; 50Alp UMA ; 1.80; 6300;occ; 84; 0;40175
9; 4002.5; 05-NOV-2009 18:10:04; Bright; 39.5; 82; 48Bet UMA ; 2.37; 10600;occ; 79; 0;40175
10; 4229.7; 05-NOV-2009 18:13:51; Bright; 41.5; 174; 52Psi UMA ; 3.00; 4400;occ; 83; 0;40175
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13; 6077.7; 05-NOV-2009 18:44:39; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;40175
14; 6218.6; 05-NOV-2009 18:47:00; Dark ; 44.0; 46; Del Vel ; 1.95; 10600;occ; 88; 0;40175
15; 6318.1; 05-NOV-2009 18:48:40; Dark ; 51.5; 70; Zet Pup ; 2.25; 39000;occ; 103; 0;40175
16; 6447.6; 05-NOV-2009 18:50:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40175
17; 6612.5; 05-NOV-2009 18:53:34; Dark ; 61.5; 2; Alp Car ;-0.74; 7000;occ; 123; 0;40175
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3; 1993.5; 05-NOV-2009 19:17:11; Dark ; 52.0; 94; 92Alp Cet ; 2.53; 3100;occ; 104; 0;40176
4; 2317.1; 05-NOV-2009 19:22:35; Bright; 41.0; 50; 13Alp Ari ; 2.01; 4250;occ; 82; 0;40176
5; 2521.7; 05-NOV-2009 19:26:00; Bright; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;40176
6; 2644.8; 05-NOV-2009 19:28:03; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;40176
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9; 4002.5; 05-NOV-2009 19:50:40; Bright; 41.0; 82; 48Bet UMA ; 2.37; 10600;occ; 82; 0;40176
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14; 6078.5; 05-NOV-2009 20:25:16; Dark ; 52.5; 65; Lam Vel ; 2.20; 4400;occ; 105; 0;40176
15; 6219.2; 05-NOV-2009 20:27:37; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;40176
16; 6319.2; 05-NOV-2009 20:29:17; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40176
17; 6448.4; 05-NOV-2009 20:31:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40176
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3; 579.4; 06-NOV-2009 01:36:01; Dark ; 50.0; 2; Alp Car ;-0.74; 7000;occ; 100; 0;40180
4; 1164.3; 06-NOV-2009 01:45:46; Dark ; 39.5; 157; The1Eri ; 2.91; 9300;occ; 79; 0;40180
5; 1992.6; 06-NOV-2009 01:59:34; Dark ; 51.5; 94; 92Alp Cet ; 2.53; 3100;occ; 103; 0;40180
6; 2264.9; 06-NOV-2009 02:04:06; Bright; 38.0; 105; 6Bet Ari ; 2.64; 8900;occ; 76; 0;40180
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8; 2643.8; 06-NOV-2009 02:10:25; Bright; 39.5; 73; 57Gam1And ; 2.26; 13100;occ; 79; 0;40180
9; 2878.0; 06-NOV-2009 02:14:19; Bright; 40.5; 35; 33Alp Per ; 1.79; 6250;occ; 81; 0;40180
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5; 108.5; 06-NOV-2009 03:08:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40181
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7; 580.3; 06-NOV-2009 03:16:38; Dark ; 50.0; 2; Alp Car ;-0.74; 7000;occ; 100; 0;40181
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9; 1992.5; 06-NOV-2009 03:40:10; Dark ; 52.5; 94; 92Alp Cet ; 2.53; 3100;occ; 105; 0;40181
10; 2265.3; 06-NOV-2009 03:44:43; Bright; 37.5; 105; 6Bet Ari ; 2.64; 8900;occ; 75; 0;40181
11; 2521.1; 06-NOV-2009 03:48:58; Bright; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;40181
12; 2643.7; 06-NOV-2009 03:51:01; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;40181
13; 2877.8; 06-NOV-2009 03:54:55; Bright; 42.0; 35; 33Alp Per ; 1.79; 6250;occ; 84; 0;40181
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2;-2034.1; 06-NOV-2009 04:13:39; Bright; 36.0; 82; 48Bet UMA ; 2.37; 10600;occ; 72; 0;40181
3;-1806.3; 06-NOV-2009 04:17:27; Bright; 58.0; 174; 52Psi UMA ; 3.00; 4400;occ; 116; 0;40181
4;-1342.4; 06-NOV-2009 04:25:11; Bright; 49.5; 96; 68Del Leo ; 2.56; 9300;occ; 99; 0;40181
5; 109.3; 06-NOV-2009 04:49:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40182
6; 267.8; 06-NOV-2009 04:52:01; Dark ; 47.0; 34; Gam2Vel ; 1.79; 23000;occ; 94; 0;40182
7; 581.0; 06-NOV-2009 04:57:14; Dark ; 50.0; 2; Alp Car ;-0.74; 7000;occ; 100; 0;40182
8; 1164.9; 06-NOV-2009 05:06:58; Dark ; 39.5; 157; The1Eri ; 2.91; 9300;occ; 79; 0;40182

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2; 1990.4; 06-NOV-2009 20:26:07; Dark ; 52.0; 94; 92Alp Cet ; 2.53; 3100;occ; 104; 0;40191
3; 2264.2; 06-NOV-2009 20:30:41; Bright; 38.5; 105; 6Bet Ari ; 2.64; 8900;occ; 77; 0;40191
4; 2518.4; 06-NOV-2009 20:34:55; Bright; 37.0; 173; 4Bet Tri ; 3.00; 8900;occ; 74; 0;40191
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7; 3902.8; 06-NOV-2009 20:58:00; Bright; 42.5; 36; 50Alp UMA ; 1.80; 6300;occ; 85; 0;40191
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9; 4229.2; 06-NOV-2009 21:03:26; Bright; 41.0; 174; 52Psi UMA ; 3.00; 4400;occ; 82; 0;40191
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4; 1167.8; 06-NOV-2009 21:53:00; Dark ; 40.0; 157; The1Eri ; 2.91; 9300;occ; 80; 0;40192
5; 1990.4; 06-NOV-2009 22:06:43; Dark ; 51.5; 94; 92Alp Cet ; 2.53; 3100;occ; 103; 0;40192
6; 2518.3; 06-NOV-2009 22:15:31; Bright; 38.5; 173; 4Bet Tri ; 3.00; 8900;occ; 77; 0;40192
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13; 4861.1; 23-NOV-2009 18:58:51; Bright; 48.5; 62; 94Bet Leo ; 2.14; 9700;occ; 97; 0;40433
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 5;-1694.9; 24-NOV-2009 03:13:10; Bright; 18.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 36; 0;40438
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