

GOMOS Daily Report 29-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	01DEC2009 04:36:41
Data source version	GOMOS/5.00L04
Start time of products	29NOV2009 00:00:07
Stop time of products	29NOV2009 23:58:02
Store outputs in DB	Yes
Nb of level 1b prods	166
Nb of prods with errors	1

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

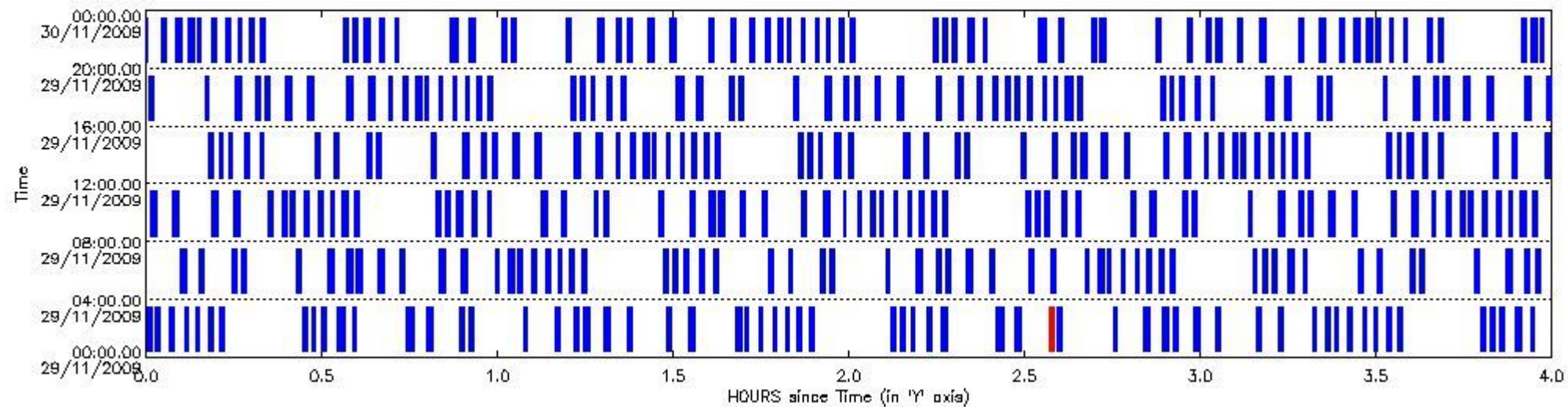
2.1 Level 0 products arrived in PCF (see template [here](#))

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
29-NOV-2009 02:34:05	4GamCrv	100	40509

2.4 Summary of processed GOM_TRA_1P products

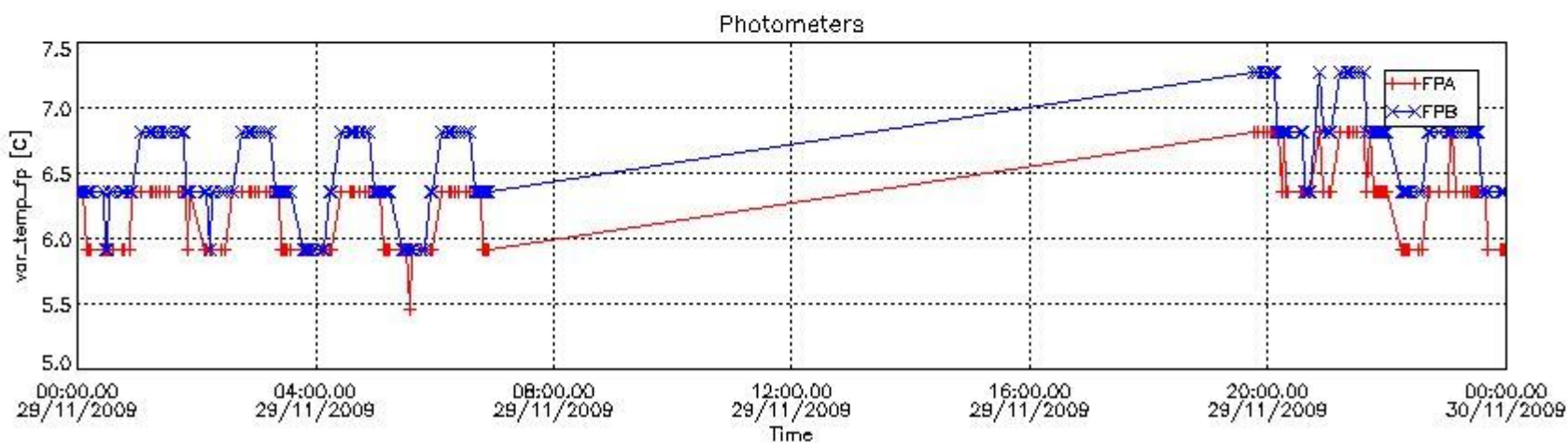
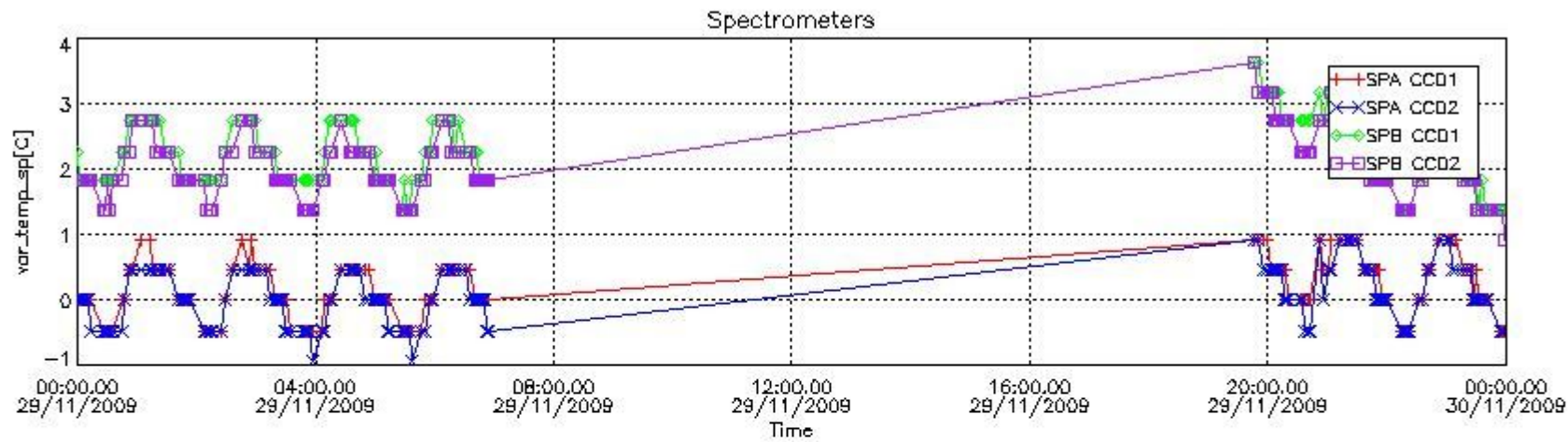
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20091129_000007_000000542084_00374_40508_5224.N1	29-NOV-2009 00:00:07	Bright	53.500	13	87Alp Tau	0.86700	3800.0	107	40508	No
2	GOM_TRA_1PNPDE20091129_000137_000000392084_00374_40508_5225.N1	29-NOV-2009 00:01:37	Bright	39.000	146	25Eta Tau	2.8730	15200.	78	40508	No
3	GOM_TRA_1PNPDE20091129_000402_000000412084_00374_40508_5226.N1	29-NOV-2009 00:04:02	Bright	40.500	150	44Zet Per	2.8900	28000.	81	40508	No
4	GOM_TRA_1PNPDE20091129_000628_000000372084_00374_40508_5227.N1	29-NOV-2009 00:06:28	Bright	37.000	149	45Eps Per	2.8880	30000.	74	40508	No
5	GOM_TRA_1PNPDE20091129_000828_000000362084_00374_40508_5228.N1	29-NOV-2009 00:08:28	Bright	35.500	175	39Del Per	3.0100	19400.	71	40508	No
6	GOM_TRA_1PNPDE20091129_001032_000000492084_00374_40508_5229.N1	29-NOV-2009 00:10:32	Bright	48.500	6	13Alp Aur	0.080000	3400.0	97	40508	No
7	GOM_TRA_1PNPDE20091129_001230_000000522084_00374_40508_5230.N1	29-NOV-2009 00:12:30	Bright	52.000	42	34Bet Aur	1.9000	10200.	104	40508	No
8	GOM_TRA_1PNPDE20091129_002635_000000482084_00374_40508_5231.N1	29-NOV-2009 00:26:35	Bright	47.500	36	50Alp UMa	1.8000	6300.0	95	40508	No
9	GOM_TRA_1PNPDE20091129_002812_000000432084_00374_40508_5232.N1	29-NOV-2009 00:28:12	Bright	43.000	82	48Bet UMa	2.3650	10600.	86	40508	No
10	GOM_TRA_1PNPDE20091129_002956_000000442084_00374_40508_5233.N1	29-NOV-2009 00:29:56	Bright	43.500	87	64Gam UMa	2.4330	11000.	87	40508	No

11	GOM_TRA_1PNPDE20091129_003238_000000752084_00374_40508_5234.N1	29-NOV-2009 00:32:38	Bright	75.000	174	52Psi UMa	3.0040	4400.0	150	40508	No
12	GOM_TRA_1PNPDE20091129_003510_000000412084_00374_40508_5235.N1	29-NOV-2009 00:35:10	Bright	40.500	152	12Alp2CVn	2.8900	11000.	81	40508	No
13	GOM_TRA_1PNPDE20091129_004427_000000762084_00374_40508_5236.N1	29-NOV-2009 00:44:27	Bright	76.000	62	94Bet Leo	2.1360	9700.0	152	40508	No
14	GOM_TRA_1PNPDE20091129_004748_000000602084_00374_40508_5237.N1	29-NOV-2009 00:47:48	Bright	59.500	121	29Gam Vir	2.7400	7200.0	119	40508	No
15	GOM_TRA_1PNPDE20091129_005321_000000492084_00374_40508_5230.N1	29-NOV-2009 00:53:21	Twilight	49.000	100	4Gam Crv	2.5800	13100.	98	40508	No
16	GOM_TRA_1PNPDE20091129_005457_000000502084_00374_40508_5231.N1	29-NOV-2009 00:54:57	Dark	50.000	171	2Eps Crv	3.0010	4250.0	100	40508	No
17	GOM_TRA_1PNPDE20091129_010426_000000422084_00375_40509_5232.N1	29-NOV-2009 01:04:26	Dark	41.500	113	Mu Vel	2.6920	5000.0	83	40509	No
18	GOM_TRA_1PNPDE20091129_011259_000000472084_00375_40509_5233.N1	29-NOV-2009 01:12:59	Dark	46.500	34	Gam2Vel	1.7930	23000.	93	40509	No
19	GOM_TRA_1PNPDE20091129_011440_000000552084_00375_40509_5234.N1	29-NOV-2009 01:14:40	Dark	55.000	70	Zet Pup	2.2460	39000.	110	40509	No
20	GOM_TRA_1PNPDE20091129_011814_000000582084_00375_40509_5235.N1	29-NOV-2009 01:18:14	Dark	57.500	117	Pi Pup	2.7060	3800.0	115	40509	No
21	GOM_TRA_1PNPDE20091129_012206_000000462084_00375_40509_5236.N1	29-NOV-2009 01:22:06	Dark	46.000	23	21Eps CMa	1.5020	26000.	92	40509	No
22	GOM_TRA_1PNPDE20091129_012851_000000552084_00375_40509_5237.N1	29-NOV-2009 01:28:51	Straylight	55.000	101	11Alp Lep	2.5820	7000.0	110	40509	No
23	GOM_TRA_1PNPDE20091129_013234_000000592084_00375_40509_5238.N1	29-NOV-2009 01:32:34	Straylight	59.000	7	19Bet Ori	0.10000	14000.	118	40509	No
24	GOM_TRA_1PNPDE20091129_014042_000000542084_00375_40509_5239.N1	29-NOV-2009 01:40:42	Bright	54.000	13	87Alp Tau	0.86700	3800.0	108	40509	No
25	GOM_TRA_1PNPDE20091129_014213_000000402084_00375_40509_5240.N1	29-NOV-2009 01:42:13	Bright	40.000	146	25Eta Tau	2.8730	15200.	80	40509	No
26	GOM_TRA_1PNPDE20091129_014437_000000402084_00375_40509_5241.N1	29-NOV-2009 01:44:37	Bright	39.500	150	44Zet Per	2.8900	28000.	79	40509	No
27	GOM_TRA_1PNPDE20091129_014704_000000372084_00375_40509_5242.N1	29-NOV-2009 01:47:04	Bright	36.500	149	45Eps Per	2.8880	30000.	73	40509	No
28	GOM_TRA_1PNPDE20091129_014903_000000362084_00375_40509_5243.N1	29-NOV-2009 01:49:03	Bright	36.000	175	39Del Per	3.0100	19400.	72	40509	No
29	GOM_TRA_1PNPDE20091129_015107_000000492084_00375_40509_5244.N1	29-NOV-2009 01:51:07	Bright	49.000	6	13Alp Aur	0.080000	3400.0	98	40509	No
30	GOM_TRA_1PNPDE20091129_015305_000000532084_00375_40509_5245.N1	29-NOV-2009 01:53:05	Bright	52.500	42	34Bet Aur	1.9000	10200.	105	40509	No
31	GOM_TRA_1PNPDE20091129_020710_000000482084_00375_40509_5246.N1	29-NOV-2009 02:07:10	Bright	48.000	36	50Alp UMa	1.8000	6300.0	96	40509	No
32	GOM_TRA_1PNPDE20091129_020847_000000492084_00375_40509_5247.N1	29-NOV-2009 02:08:47	Bright	49.000	82	48Bet UMa	2.3650	10600.	98	40509	No
33	GOM_TRA_1PNPDE20091129_021031_000000422084_00375_40509_5254.N1	29-NOV-2009 02:10:31	Bright	41.500	87	64Gam UMa	2.4330	11000.	83	40509	No
34	GOM_TRA_1PNPDE20091129_021314_000000502084_00375_40509_5255.N1	29-NOV-2009 02:13:14	Bright	49.500	174	52Psi UMa	3.0040	4400.0	99	40509	No
35	GOM_TRA_1PNPDE20091129_021546_000000572084_00375_40509_5256.N1	29-NOV-2009 02:15:46	Bright	57.000	152	12Alp2CVn	2.8900	11000.	114	40509	No
36	GOM_TRA_1PNPDE20091129_022504_000000762084_00375_40509_5257.N1	29-NOV-2009 02:25:04	Bright	76.000	62	94Bet Leo	2.1360	9700.0	152	40509	No
37	GOM_TRA_1PNPDE20091129_022824_000000602084_00375_40509_5258.N1	29-NOV-2009 02:28:24	Bright	60.000	121	29Gam Vir	2.7400	7200.0	120	40509	No
38	GOM_TRA_1PNPDE20091129_023533_000000502084_00375_40509_5259.N1	29-NOV-2009 02:35:33	Dark	50.000	171	2Eps Crv	3.0010	4250.0	100	40509	No
39	GOM_TRA_1PNPDE20091129_024502_000000432084_00376_40510_5260.N1	29-NOV-2009 02:45:02	Dark	43.000	113	Mu Vel	2.6920	5000.0	86	40510	No
40	GOM_TRA_1PNPDE20091129_025336_000000622084_00376_40510_5261.N1	29-NOV-2009 02:53:36	Dark	62.000	34	Gam2Vel	1.7930	23000.	124	40510	No
41	GOM_TRA_1PNPDE20091129_025517_000000572084_00376_40510_5262.N1	29-NOV-2009 02:55:17	Dark	56.500	70	Zet Pup	2.2460	39000.	113	40510	No
42	GOM_TRA_1PNPDE20091129_025851_000000632084_00376_40510_5263.N1	29-NOV-2009 02:58:51	Dark	63.000	117	Pi Pup	2.7060	3800.0	126	40510	No
43	GOM_TRA_1PNPDE20091129_030243_000000492084_00376_40510_5264.N1	29-NOV-2009 03:02:43	Dark	49.000	23	21Eps CMa	1.5020	26000.	98	40510	No
44	GOM_TRA_1PNPDE20091129_030927_000000562084_00376_40510_5265.N1	29-NOV-2009 03:09:27	Straylight	55.500	101	11Alp Lep	2.5820	7000.0	111	40510	No
45	GOM_TRA_1PNPDE20091129_031310_000000622084_00376_40510_5266.N1	29-NOV-2009 03:13:10	Straylight	61.500	7	19Bet Ori	0.10000	14000.	123	40510	No
46	GOM_TRA_1PNPDE20091129_031908_000000292084_00376_40510_5267.N1	29-NOV-2009 03:19:08	Twilight	29.000	27	24Gam Ori	1.6360	26000.	58	40510	No
47	GOM_TRA_1PNPDE20091129_032118_000000562084_00376_40510_5268.N1	29-NOV-2009 03:21:18	Bright	55.500	13	87Alp Tau	0.86700	3800.0	111	40510	No
48	GOM_TRA_1PNPDE20091129_032249_000000402084_00376_40510_5269.N1	29-NOV-2009 03:22:49	Bright	39.500	146	25Eta Tau	2.8730	15200.	79	40510	No
49	GOM_TRA_1PNPDE20091129_032513_000000412084_00376_40510_5270.N1	29-NOV-2009 03:25:13	Bright	41.000	150	44Zet Per	2.8900	28000.	82	40510	No
50	GOM_TRA_1PNPDE20091129_032739_000000392084_00376_40510_5271.N1	29-NOV-2009 03:27:39	Bright	39.000	149	45Eps Per	2.8880	30000.	78	40510	No
51	GOM_TRA_1PNPDE20091129_032939_000000372084_00376_40510_5272.N1	29-NOV-2009 03:29:39	Bright	36.500	175	39Del Per	3.0100	19400.	73	40510	No
52	GOM_TRA_1PNPDE20091129_033142_000000542084_00376_40510_5273.N1	29-NOV-2009 03:31:42	Bright	53.500	6	13Alp Aur	0.080000	3400.0	107	40510	No
53	GOM_TRA_1PNPDE20091129_033340_000000522084_00376_40510_5274.N1	29-NOV-2009 03:33:40	Bright	51.500	42	34Bet Aur	1.9000	10200.	103	40510	No
54	GOM_TRA_1PNPDE20091129_034746_000000502084_00376_40510_5272.N1	29-NOV-2009 03:47:46	Bright	50.000	36	50Alp UMa	1.8000	6300.0	100	40510	No
55	GOM_TRA_1PNPDE20091129_034923_000000492084_00376_40510_5273.N1	29-NOV-2009 03:49:23	Bright	49.000	82	48Bet UMa	2.3650	10600.	98	40510	No
56	GOM_TRA_1PNPDE20091129_035107_000000442084_00376_40510_5274.N1	29-NOV-2009 03:51:07	Bright	43.500	87	64Gam UMa	2.4330	11000.	87	40510	No
57	GOM_TRA_1PNPDE20091129_035349_000000532084_00376_40510_5275.N1	29-NOV-2009 03:53:49	Bright	52.500	174	52Psi UMa	3.0040	4400.0	105	40510	No
58	GOM_TRA_1PNPDE20091129_035622_000000362084_00376_40510_5276.N1	29-NOV-2009 03:56:22	Bright	35.500	152	12Alp2CVn	2.8900	11000.	71	40510	No
59	GOM_TRA_1PNPDE20091129_040540_000000772084_00376_40510_5277.N1	29-NOV-2009 04:05:40	Bright	77.000	62	94Bet Leo	2.1360	9700.0	154	40510	No
60	GOM_TRA_1PNPDE20091129_040900_000000432084_00376_40510_5278.N1	29-NOV-2009 04:09:00	Bright	42.500	121	29Gam Vir	2.7400	7200.0	85	40510	No
61	GOM_TRA_1PNPDE20091129_041435_000000472084_00376_40510_5279.N1	29-NOV-2009 04:14:35	Twilight	46.500	100	4Gam Crv	2.5800	13100.	93	40510	No
62	GOM_TRA_1PNPDE20091129_041610_000000502084_00376_40510_5280.N1	29-NOV-2009 04:16:10	Dark	50.000	171	2Eps Crv	3.0010	4250.0	100	40510	No
63	GOM_TRA_1PNPDE20091129_042539_000000432084_00377_40511_5281.N1	29-NOV-2009 04:25:39	Dark	42.500	113	Mu Vel	2.6920	5000.0	85	40511	No
64	GOM_TRA_1PNPDE20091129_043413_000000572084_00377_40511_5282.N1	29-NOV-2009 04:34:13	Dark	57.000	34	Gam2Vel	1.7930	23000.	114	40511	No
65	GOM_TRA_1PNPDE20091129_043554_000000572084_00377_40511_5283.N1	29-NOV-2009 04:35:54	Dark	57.000	70	Zet Pup	2.2460	39000.	114	40511	No
66	GOM_TRA_1PNPDE20091129_043928_000000622084_00377_40511_5284.N1	29-NOV-2009 04:39:28	Dark	61.500	117	Pi Pup	2.7060	3800.0	123	40511	No
67	GOM_TRA_1PNPDE20091129_044319_000000492084_00377_40511_5285.N1	29-NOV-2009 04:43:19	Dark	49.000	23	21Eps CMa	1.5020	26000.	98	40511	No
68	GOM_TRA_1PNPDE20091129_045003_000000572084_00377_40511_5286.N1	29-NOV-2009 04:50:03	Straylight	57.000	101	11Alp Lep	2.5820	7000.0	114	40511	No
69	GOM_TRA_1PNPDE20091129_045346_000000612084_00377_40511_5287.N1	29-NOV-2009 04:53:46	Straylight	60.500	7	19Bet Ori	0.10000	14000.	121	40511	No

70	GOM_TRA_1PNPDE20091129_045943_000000292084_00377_40511_5288.N1	29-NOV-2009 04:59:43	Twilight	29.000	27	24Gam Ori	1.6360	26000.	58	40511	No
71	GOM_TRA_1PNPDE20091129_050153_000000562084_00377_40511_5289.N1	29-NOV-2009 05:01:53	Bright	55.500	13	87Alp Tau	0.86700	3800.0	111	40511	No
72	GOM_TRA_1PNPDE20091129_050324_000000402084_00377_40511_5290.N1	29-NOV-2009 05:03:24	Bright	40.000	146	25Eta Tau	2.8730	15200.	80	40511	No
73	GOM_TRA_1PNPDE20091129_050548_000000402084_00377_40511_5291.N1	29-NOV-2009 05:05:48	Bright	39.500	150	44Zet Per	2.8900	28000.	79	40511	No
74	GOM_TRA_1PNPDE20091129_050815_000000382084_00377_40511_5292.N1	29-NOV-2009 05:08:15	Bright	38.000	149	45Eps Per	2.8880	30000.	76	40511	No
75	GOM_TRA_1PNPDE20091129_051015_000000382084_00377_40511_5293.N1	29-NOV-2009 05:10:15	Bright	37.500	175	39Del Per	3.0100	19400.	75	40511	No
76	GOM_TRA_1PNPDE20091129_051217_000000472084_00377_40511_5294.N1	29-NOV-2009 05:12:17	Bright	47.000	6	13Alp Aur	0.080000	3400.0	94	40511	No
77	GOM_TRA_1PNPDE20091129_051415_000000512084_00377_40511_5295.N1	29-NOV-2009 05:14:15	Bright	50.500	42	34Bet Aur	1.9000	10200.	101	40511	No
78	GOM_TRA_1PNPDE20091129_052821_000000462084_00377_40511_5292.N1	29-NOV-2009 05:28:21	Bright	46.000	36	50Alp UMa	1.8000	6300.0	92	40511	No
79	GOM_TRA_1PNPDE20091129_052958_000000472084_00377_40511_5293.N1	29-NOV-2009 05:29:58	Bright	46.500	82	48Bet UMa	2.3650	10600.	93	40511	No
80	GOM_TRA_1PNPDE20091129_053142_000000452084_00377_40511_5294.N1	29-NOV-2009 05:31:42	Bright	45.000	87	64Gam UMa	2.4330	11000.	90	40511	No
81	GOM_TRA_1PNPDE20091129_053425_000000502084_00377_40511_5295.N1	29-NOV-2009 05:34:25	Bright	50.000	174	52Psi UMa	3.0040	4400.0	100	40511	No
82	GOM_TRA_1PNPDE20091129_053658_000000362084_00377_40511_5296.N1	29-NOV-2009 05:36:58	Bright	36.000	152	12Alp2CVn	2.8900	11000.	72	40511	No
83	GOM_TRA_1PNPDE20091129_054617_000000522084_00377_40511_5297.N1	29-NOV-2009 05:46:17	Bright	52.000	62	94Bet Leo	2.1360	9700.0	104	40511	No
84	GOM_TRA_1PNPDE20091129_054937_000000432084_00377_40511_5298.N1	29-NOV-2009 05:49:37	Bright	43.000	121	29Gam Vir	2.7400	7200.0	86	40511	No
85	GOM_TRA_1PNPDE20091129_055512_000000472084_00377_40511_5299.N1	29-NOV-2009 05:55:12	Twilight	47.000	100	4Gam Crv	2.5800	13100.	94	40511	No
86	GOM_TRA_1PNPDE20091129_055647_000000502084_00377_40511_5300.N1	29-NOV-2009 05:56:47	Dark	49.500	171	2Eps Crv	3.0010	4250.0	99	40511	No
87	GOM_TRA_1PNPDE20091129_060616_000000432084_00378_40512_5301.N1	29-NOV-2009 06:06:16	Dark	42.500	113	Mu Vel	2.6920	5000.0	85	40512	No
88	GOM_TRA_1PNPDE20091129_061450_000000502084_00378_40512_5302.N1	29-NOV-2009 06:14:50	Dark	49.500	34	Gam2Vel	1.7930	23000.	99	40512	No
89	GOM_TRA_1PNPDE20091129_061631_000000552084_00378_40512_5303.N1	29-NOV-2009 06:16:31	Dark	55.000	70	Zet Pup	2.2460	39000.	110	40512	No
90	GOM_TRA_1PNPDE20091129_062005_000000622084_00378_40512_5304.N1	29-NOV-2009 06:20:05	Dark	61.500	117	Pi Pup	2.7060	3800.0	123	40512	No
91	GOM_TRA_1PNPDE20091129_062356_000000522084_00378_40512_5305.N1	29-NOV-2009 06:23:56	Dark	52.000	23	21Eps CMa	1.5020	26000.	104	40512	No
92	GOM_TRA_1PNPDE20091129_063040_000000562084_00378_40512_5306.N1	29-NOV-2009 06:30:40	Straylight	56.000	101	11Alp Lep	2.5820	7000.0	112	40512	No
93	GOM_TRA_1PNPDE20091129_063422_000000612084_00378_40512_5307.N1	29-NOV-2009 06:34:22	Straylight	60.500	7	19Bet Ori	0.10000	14000.	121	40512	No
94	GOM_TRA_1PNPDE20091129_064018_000000362084_00378_40512_5308.N1	29-NOV-2009 06:40:18	Twilight	36.000	27	24Gam Ori	1.6360	26000.	72	40512	No
95	GOM_TRA_1PNPDE20091129_064229_000000582084_00378_40512_5309.N1	29-NOV-2009 06:42:29	Bright	57.500	13	87Alp Tau	0.86700	3800.0	115	40512	No
96	GOM_TRA_1PNPDE20091129_064400_000000402084_00378_40512_5310.N1	29-NOV-2009 06:44:00	Bright	39.500	146	25Eta Tau	2.8730	15200.	79	40512	No
97	GOM_TRA_1PNPDE20091129_064624_000000392084_00378_40512_5311.N1	29-NOV-2009 06:46:24	Bright	39.000	150	44Zet Per	2.8900	28000.	78	40512	No
98	GOM_TRA_1PNPDE20091129_064851_000000382084_00378_40512_5312.N1	29-NOV-2009 06:48:51	Bright	37.500	149	45Eps Per	2.8880	30000.	75	40512	No
99	GOM_TRA_1PNPDE20091129_065051_000000382084_00378_40512_5313.N1	29-NOV-2009 06:50:51	Bright	38.000	175	39Del Per	3.0100	19400.	76	40512	No
100	GOM_TRA_1PNPDE20091129_065252_000000502084_00378_40512_5314.N1	29-NOV-2009 06:52:52	Bright	49.500	6	13Alp Aur	0.080000	3400.0	99	40512	No
101	GOM_TRA_1PNPDE20091129_065450_000000502084_00378_40512_5315.N1	29-NOV-2009 06:54:50	Bright	50.000	42	34Bet Aur	1.9000	10200.	100	40512	No
102	GOM_TRA_1PNPDE20091129_194459_000000602084_00386_40520_5370.N1	29-NOV-2009 19:44:59	Dark	60.000	117	Pi Pup	2.7060	3800.0	120	40520	No
103	GOM_TRA_1PNPDE20091129_194849_000000642084_00386_40520_5371.N1	29-NOV-2009 19:48:49	Dark	64.000	23	21Eps CMa	1.5020	26000.	128	40520	No
104	GOM_TRA_1PNPDE20091129_195528_000000572084_00386_40520_5372.N1	29-NOV-2009 19:55:28	Straylight	56.500	101	11Alp Lep	2.5820	7000.0	113	40520	No
105	GOM_TRA_1PNPDE20091129_195908_000000602084_00386_40520_5373.N1	29-NOV-2009 19:59:08	Straylight	59.500	7	19Bet Ori	0.10000	14000.	119	40520	No
106	GOM_TRA_1PNPDE20091129_200231_000000492084_00386_40520_5374.N1	29-NOV-2009 20:02:31	Twilight	49.000	72	34Del Ori	2.2500	30000.	98	40520	No
107	GOM_TRA_1PNPDE20091129_200501_000000622084_00386_40520_5375.N1	29-NOV-2009 20:05:01	Twilight	62.000	27	24Gam Ori	1.6360	26000.	124	40520	No
108	GOM_TRA_1PNPDE20091129_200713_000000562084_00386_40520_5376.N1	29-NOV-2009 20:07:13	Bright	56.000	13	87Alp Tau	0.86700	3800.0	112	40520	No
109	GOM_TRA_1PNPDE20091129_200846_000000382084_00386_40520_5377.N1	29-NOV-2009 20:08:46	Bright	38.000	146	25Eta Tau	2.8730	15200.	76	40520	No
110	GOM_TRA_1PNPDE20091129_201109_000000412084_00386_40520_5378.N1	29-NOV-2009 20:11:09	Bright	40.500	150	44Zet Per	2.8900	28000.	81	40520	No
111	GOM_TRA_1PNPDE20091129_201336_000000382084_00386_40520_5379.N1	29-NOV-2009 20:13:36	Bright	38.000	149	45Eps Per	2.8880	30000.	76	40520	No
112	GOM_TRA_1PNPDE20091129_201536_000000382084_00386_40520_5380.N1	29-NOV-2009 20:15:36	Bright	37.500	175	39Del Per	3.0100	19400.	75	40520	No
113	GOM_TRA_1PNPDE20091129_201734_000000512084_00386_40520_5381.N1	29-NOV-2009 20:17:34	Bright	50.500	6	13Alp Aur	0.080000	3400.0	101	40520	No
114	GOM_TRA_1PNPDE20091129_201929_000000532084_00386_40520_5382.N1	29-NOV-2009 20:19:29	Bright	52.500	42	34Bet Aur	1.9000	10200.	105	40520	No
115	GOM_TRA_1PNPDE20091129_203342_000000512084_00386_40520_5383.N1	29-NOV-2009 20:33:42	Bright	50.500	36	50Alp UMa	1.8000	6300.0	101	40520	No
116	GOM_TRA_1PNPDE20091129_203518_000000462084_00386_40520_5384.N1	29-NOV-2009 20:35:18	Bright	45.500	82	48Bet UMa	2.3650	10600.	91	40520	No
117	GOM_TRA_1PNPDE20091129_203704_000000622084_00386_40520_5385.N1	29-NOV-2009 20:37:04	Bright	62.000	87	64Gam UMa	2.4330	11000.	124	40520	No
118	GOM_TRA_1PNPDE20091129_203946_000000522084_00386_40520_5386.N1	29-NOV-2009 20:39:46	Bright	51.500	174	52Psi UMa	3.0040	4400.0	103	40520	No
119	GOM_TRA_1PNPDE20091129_204222_000000412084_00386_40520_5387.N1	29-NOV-2009 20:42:22	Bright	40.500	152	12Alp2CVn	2.8900	11000.	81	40520	No
120	GOM_TRA_1PNPDE20091129_205146_000000782084_00386_40520_5390.N1	29-NOV-2009 20:51:46	Bright	78.000	62	94Bet Leo	2.1360	9700.0	156	40520	Yes
121	GOM_TRA_1PNPDE20091129_205505_000000612084_00386_40520_5391.N1	29-NOV-2009 20:55:05	Bright	61.000	121	29Gam Vir	2.7400	7200.0	122	40520	No
122	GOM_TRA_1PNPDE20091129_210042_000000472084_00386_40520_5392.N1	29-NOV-2009 21:00:42	Twilight	46.500	100	4Gam Crv	2.5800	13100.	93	40520	No
123	GOM_TRA_1PNPDE20091129_210217_000000492084_00386_40520_5393.N1	29-NOV-2009 21:02:17	Dark	49.000	171	2Eps Crv	3.0010	4250.0	98	40520	No
124	GOM_TRA_1PNPDE20091129_211146_000000432084_00387_40521_5394.N1	29-NOV-2009 21:11:46	Dark	42.500	113	Mu Vel	2.6920	5000.0	85	40521	No
125	GOM_TRA_1PNPDE20091129_212022_000000472084_00387_40521_5395.N1	29-NOV-2009 21:20:22	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	40521	No
126	GOM_TRA_1PNPDE20091129_212204_000000572084_00387_40521_5396.N1	29-NOV-2009 21:22:04	Dark	57.000	70	Zet Pup	2.2460	39000.	114	40521	No
127	GOM_TRA_1PNPDE20091129_212536_000000592084_00387_40521_5397.N1	29-NOV-2009 21:25:36	Dark	59.000	117	Pi Pup	2.7060	3800.0	118	40521	No
128	GOM_TRA_1PNPDE20091129_212926_000000642084_00387_40521_5398.N1	29-NOV-2009 21:29:26	Dark	64.000	23	21Eps CMa	1.5020	26000.	128	40521	No

129	GOM_TRA_1PNPDE20091129_213604_000000552084_00387_40521_5399.N1	29-NOV-2009 21:36:04	Straylight	55.000	101	11Alp Lep	2.5820	7000.0	110	40521	No
130	GOM_TRA_1PNPDE20091129_213944_000000582084_00387_40521_5400.N1	29-NOV-2009 21:39:44	Straylight	58.000	7	19Bet Ori	0.10000	14000.	116	40521	No
131	GOM_TRA_1PNPDE20091129_214307_000000492084_00387_40521_5401.N1	29-NOV-2009 21:43:07	Twilight	49.000	72	34Del Ori	2.2500	30000.	98	40521	No
132	GOM_TRA_1PNPDE20091129_214536_000000622084_00387_40521_5402.N1	29-NOV-2009 21:45:36	Twilight	62.000	27	24Gam Ori	1.6360	26000.	124	40521	No
133	GOM_TRA_1PNPDE20091129_214749_000000542084_00387_40521_5403.N1	29-NOV-2009 21:47:49	Bright	53.500	13	87Alp Tau	0.86700	3800.0	107	40521	No
134	GOM_TRA_1PNPDE20091129_214922_000000392084_00387_40521_5404.N1	29-NOV-2009 21:49:22	Bright	38.500	146	25Eta Tau	2.8730	15200.	77	40521	No
135	GOM_TRA_1PNPDE20091129_215145_000000412084_00387_40521_5405.N1	29-NOV-2009 21:51:45	Bright	40.500	150	44Zet Per	2.8900	28000.	81	40521	No
136	GOM_TRA_1PNPDE20091129_215412_000000392084_00387_40521_5406.N1	29-NOV-2009 21:54:12	Bright	39.000	149	45Eps Per	2.8880	30000.	78	40521	No
137	GOM_TRA_1PNPDE20091129_215616_000000322084_00387_40521_5407.N1	29-NOV-2009 21:56:16	Bright	32.000	175	39Del Per	3.0100	19400.	64	40521	No
138	GOM_TRA_1PNPDE20091129_215809_000000602084_00387_40521_5408.N1	29-NOV-2009 21:58:09	Bright	59.500	6	13Alp Aur	0.080000	3400.0	119	40521	No
139	GOM_TRA_1PNPDE20091129_220004_000000532084_00387_40521_5409.N1	29-NOV-2009 22:00:04	Bright	53.000	42	34Bet Aur	1.9000	10200.	106	40521	No
140	GOM_TRA_1PNPDE20091129_221418_000000462084_00387_40521_5410.N1	29-NOV-2009 22:14:18	Bright	46.000	36	50Alp UMa	1.8000	6300.0	92	40521	No
141	GOM_TRA_1PNPDE20091129_221554_000000482084_00387_40521_5411.N1	29-NOV-2009 22:15:54	Bright	48.000	82	48Bet UMa	2.3650	10600.	96	40521	No
142	GOM_TRA_1PNPDE20091129_221740_000000462084_00387_40521_5412.N1	29-NOV-2009 22:17:40	Bright	45.500	87	64Gam UMa	2.4330	11000.	91	40521	No
143	GOM_TRA_1PNPDE20091129_222022_000000522084_00387_40521_5413.N1	29-NOV-2009 22:20:22	Bright	51.500	174	52Psi UMa	3.0040	4400.0	103	40521	No
144	GOM_TRA_1PNPDE20091129_222257_000000392084_00387_40521_5414.N1	29-NOV-2009 22:22:57	Bright	39.000	152	12Alp2CVn	2.8900	11000.	78	40521	No
145	GOM_TRA_1PNPDE20091129_223223_000000782084_00387_40521_5415.N1	29-NOV-2009 22:32:23	Bright	78.000	62	94Bet Leo	2.1360	9700.0	156	40521	No
146	GOM_TRA_1PNPDE20091129_223542_000000542084_00387_40521_5416.N1	29-NOV-2009 22:35:42	Bright	53.500	121	29Gam Vir	2.7400	7200.0	107	40521	No
147	GOM_TRA_1PNPDE20091129_224118_000000492084_00387_40521_5409.N1	29-NOV-2009 22:41:18	Twilight	49.000	100	4Gam Crv	2.5800	13100.	98	40521	No
148	GOM_TRA_1PNPDE20091129_224254_000000522084_00387_40521_5410.N1	29-NOV-2009 22:42:54	Dark	51.500	171	2Eps Crv	3.0010	4250.0	103	40521	No
149	GOM_TRA_1PNPDE20091129_225222_000000532084_00388_40522_5411.N1	29-NOV-2009 22:52:22	Dark	53.000	113	Mu Vel	2.6920	5000.0	106	40522	No
150	GOM_TRA_1PNPDE20091129_230058_000000482084_00388_40522_5412.N1	29-NOV-2009 23:00:58	Dark	48.000	34	Gam2Vel	1.7930	23000.	96	40522	No
151	GOM_TRA_1PNPDE20091129_230241_000000572084_00388_40522_5413.N1	29-NOV-2009 23:02:41	Dark	56.500	70	Zet Pup	2.2460	39000.	113	40522	No
152	GOM_TRA_1PNPDE20091129_230612_000000632084_00388_40522_5414.N1	29-NOV-2009 23:06:12	Dark	63.000	117	Pi Pup	2.7060	3800.0	126	40522	No
153	GOM_TRA_1PNPDE20091129_231003_000000662084_00388_40522_5415.N1	29-NOV-2009 23:10:03	Dark	66.000	23	21Eps CMa	1.5020	26000.	132	40522	No
154	GOM_TRA_1PNPDE20091129_231640_000000572084_00388_40522_5416.N1	29-NOV-2009 23:16:40	Straylight	56.500	101	11Alp Lep	2.5820	7000.0	113	40522	No
155	GOM_TRA_1PNPDE20091129_232020_000000582084_00388_40522_5417.N1	29-NOV-2009 23:20:20	Straylight	58.000	7	19Bet Ori	0.10000	14000.	116	40522	No
156	GOM_TRA_1PNPDE20091129_232342_000000552084_00388_40522_5418.N1	29-NOV-2009 23:23:42	Twilight	55.000	72	34Del Ori	2.2500	30000.	110	40522	No
157	GOM_TRA_1PNPDE20091129_232611_000000652084_00388_40522_5419.N1	29-NOV-2009 23:26:11	Twilight	65.000	27	24Gam Ori	1.6360	26000.	130	40522	No
158	GOM_TRA_1PNPDE20091129_232824_000000572084_00388_40522_5420.N1	29-NOV-2009 23:28:24	Bright	56.500	13	87Alp Tau	0.86700	3800.0	113	40522	No
159	GOM_TRA_1PNPDE20091129_232957_000000422084_00388_40522_5421.N1	29-NOV-2009 23:29:57	Bright	41.500	146	25Eta Tau	2.8730	15200.	83	40522	No
160	GOM_TRA_1PNPDE20091129_233221_000000392084_00388_40522_5422.N1	29-NOV-2009 23:32:21	Bright	39.000	150	44Zet Per	2.8900	28000.	78	40522	No
161	GOM_TRA_1PNPDE20091129_233447_000000372084_00388_40522_5423.N1	29-NOV-2009 23:34:47	Bright	37.000	149	45Eps Per	2.8880	30000.	74	40522	No
162	GOM_TRA_1PNPDE20091129_233845_000000472084_00388_40522_5424.N1	29-NOV-2009 23:38:45	Bright	46.500	6	13Alp Aur	0.080000	3400.0	93	40522	No
163	GOM_TRA_1PNPDE20091129_234039_000000482084_00388_40522_5425.N1	29-NOV-2009 23:40:39	Bright	47.500	42	34Bet Aur	1.9000	10200.	95	40522	No
164	GOM_TRA_1PNPDE20091129_235453_000000492084_00388_40522_5426.N1	29-NOV-2009 23:54:53	Bright	48.500	36	50Alp UMa	1.8000	6300.0	97	40522	No
165	GOM_TRA_1PNPDE20091129_235630_000000672084_00388_40522_5427.N1	29-NOV-2009 23:56:30	Bright	67.000	82	48Bet UMa	2.3650	10600.	134	40522	No
166	GOM_TRA_1PNPDE20091129_235802_000000412084_00388_40522_5428.N1	29-NOV-2009 23:58:02	Bright	40.500	32	77Eps UMa	1.7630	11000.	81	40522	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).

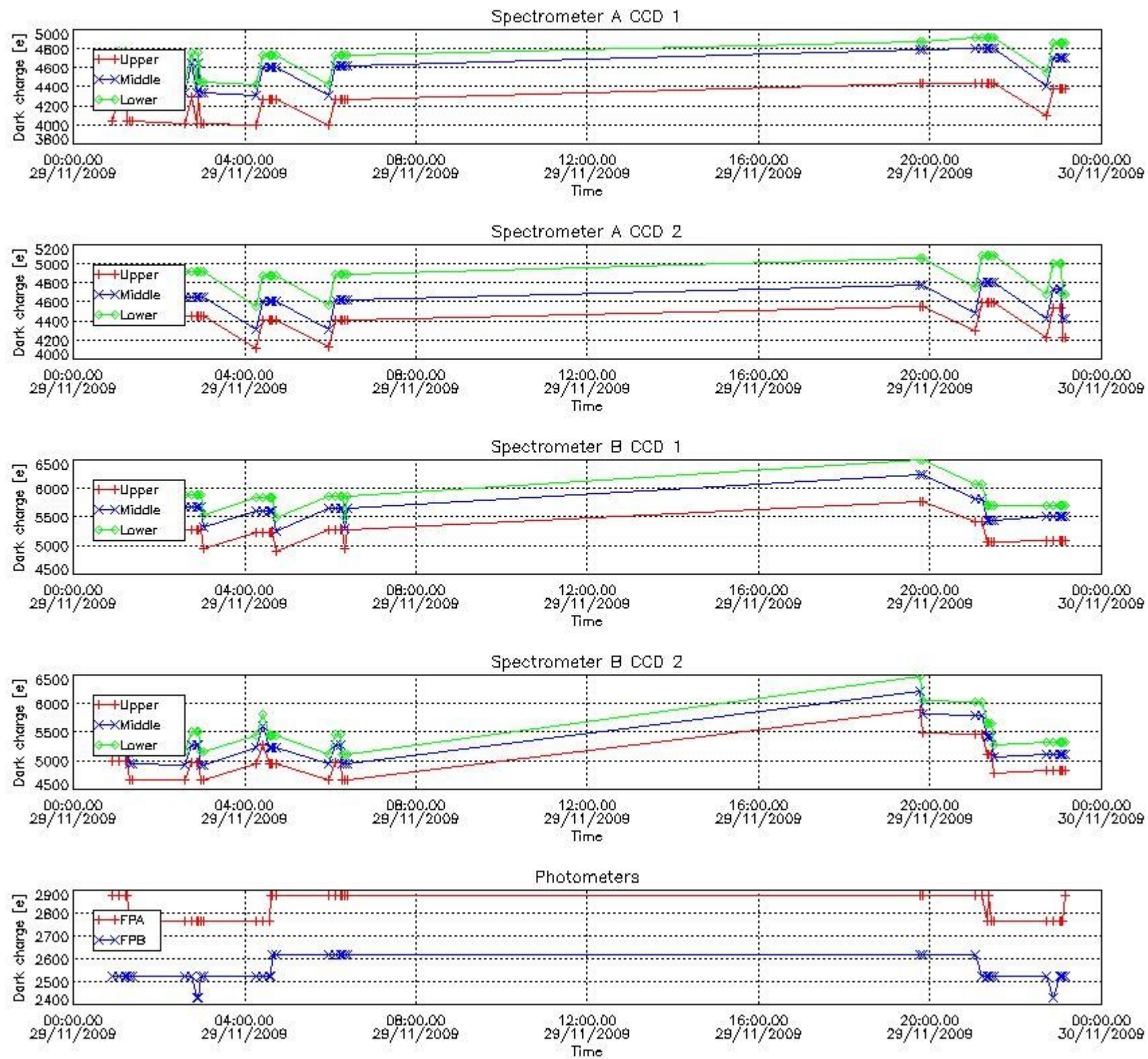
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20091129_194459_000000602084_00386_40520_5370.N1	DC map used
GOM_TRA_1PNPDE20091129_194849_000000642084_00386_40520_5371.N1	DC map used
GOM_TRA_1PNPDE20091129_195528_000000572084_00386_40520_5372.N1	DC map used
GOM_TRA_1PNPDE20091129_195908_000000602084_00386_40520_5373.N1	DC map used
GOM_TRA_1PNPDE20091129_200231_000000492084_00386_40520_5374.N1	DC map used
GOM_TRA_1PNPDE20091129_200501_000000622084_00386_40520_5375.N1	DC map used
GOM_TRA_1PNPDE20091129_200713_000000562084_00386_40520_5376.N1	DC map used
GOM_TRA_1PNPDE20091129_200846_000000382084_00386_40520_5377.N1	DC map used
GOM_TRA_1PNPDE20091129_201109_000000412084_00386_40520_5378.N1	DC map used
GOM_TRA_1PNPDE20091129_201336_000000382084_00386_40520_5379.N1	DC map used
GOM_TRA_1PNPDE20091129_201536_000000382084_00386_40520_5380.N1	DC map used
GOM_TRA_1PNPDE20091129_201734_000000512084_00386_40520_5381.N1	DC map used
GOM_TRA_1PNPDE20091129_201929_000000532084_00386_40520_5382.N1	DC map used
GOM_TRA_1PNPDE20091129_203342_000000512084_00386_40520_5383.N1	DC map used

GOM_TRA_1PNPDE20091129_203518_000000462084_00386_40520_5384.N1	DC map used
GOM_TRA_1PNPDE20091129_203704_000000622084_00386_40520_5385.N1	DC map used
GOM_TRA_1PNPDE20091129_203946_000000522084_00386_40520_5386.N1	DC map used
GOM_TRA_1PNPDE20091129_204222_000000412084_00386_40520_5387.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

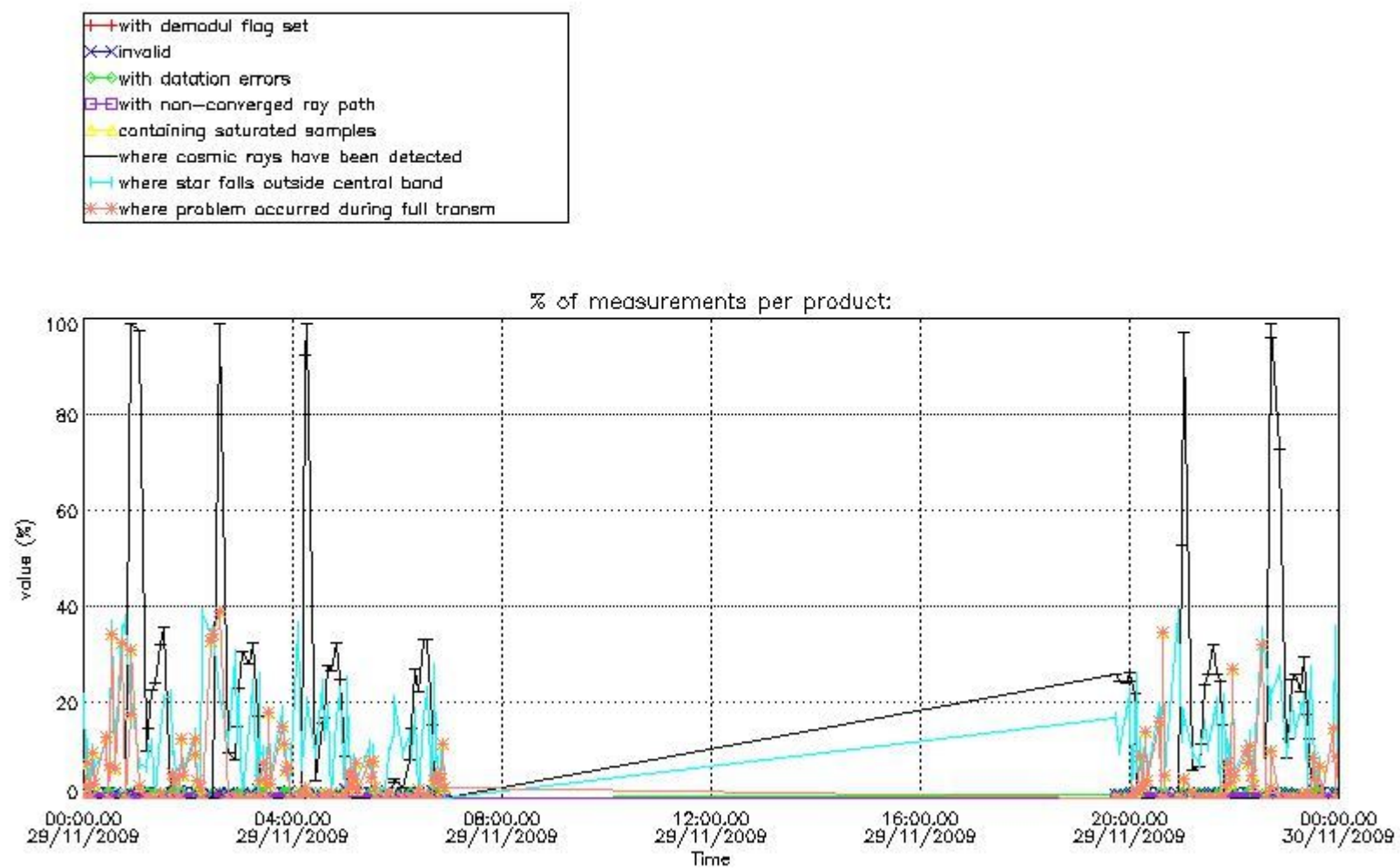
In this section it is presented the modulation information extracted from the pcd (product confidence data)

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.

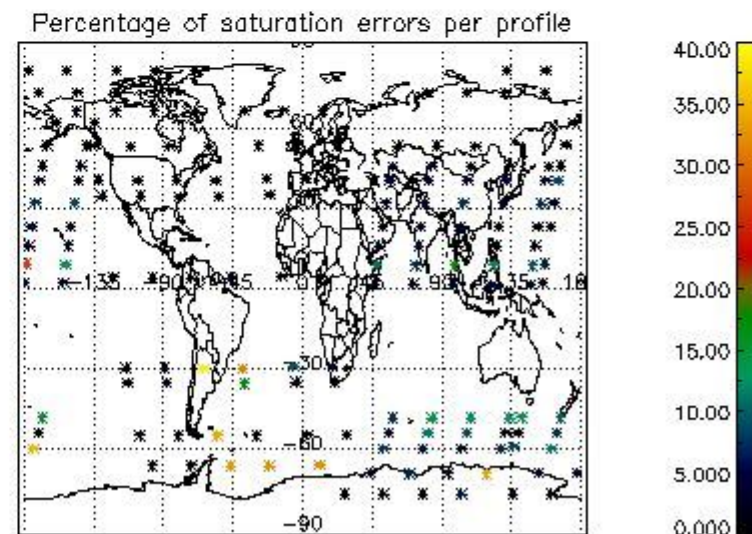
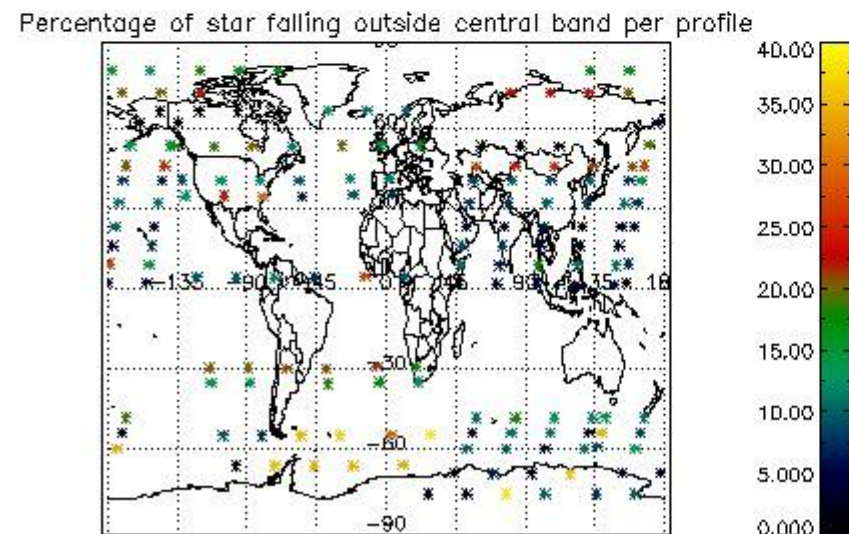
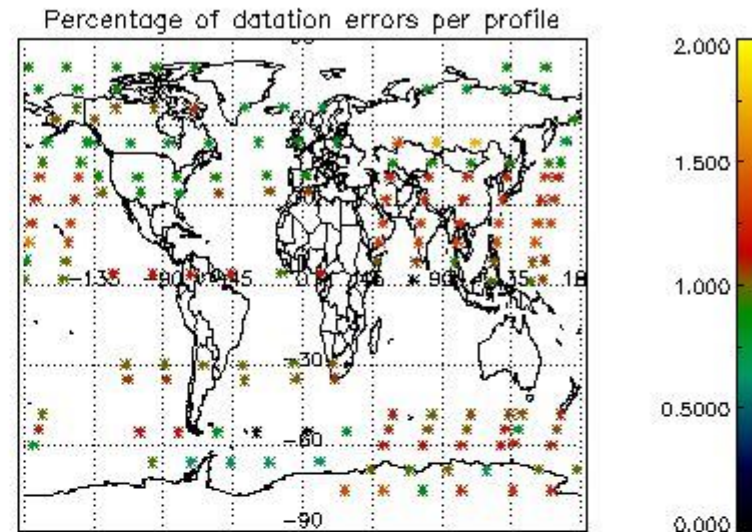
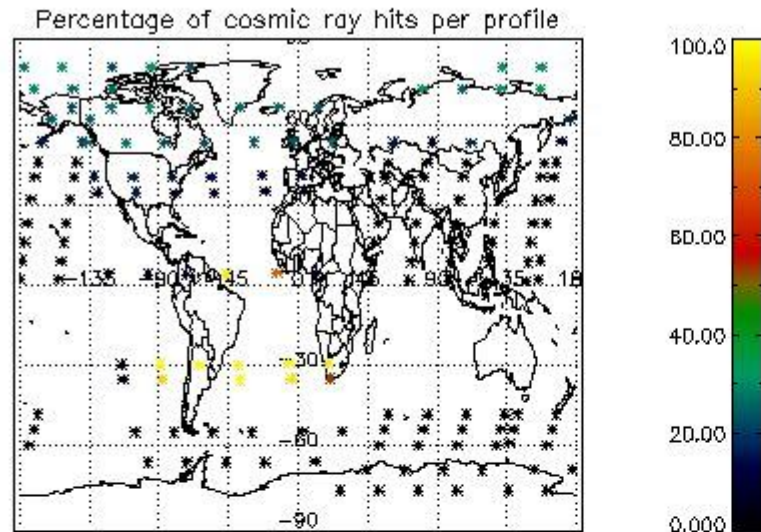
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	33.9394 %
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)



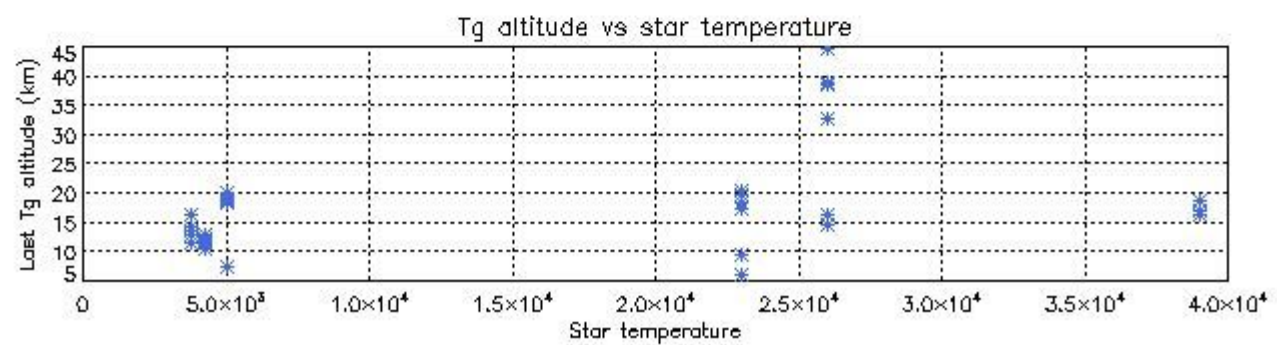
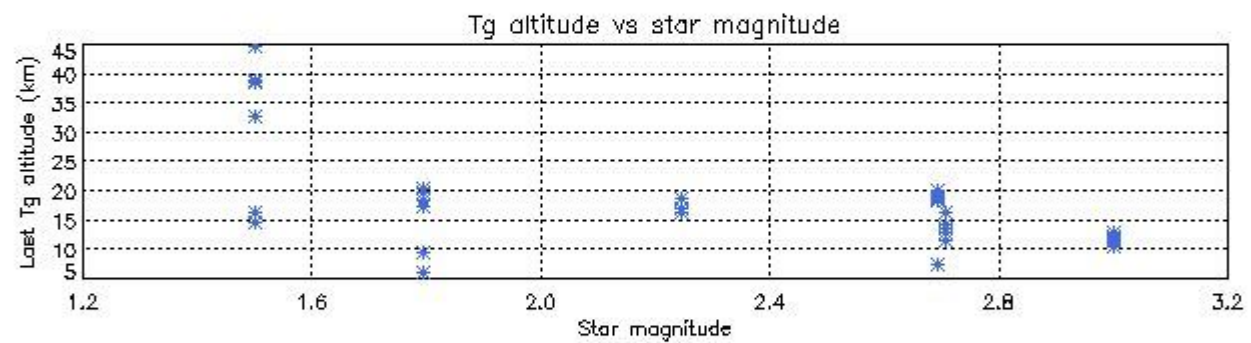
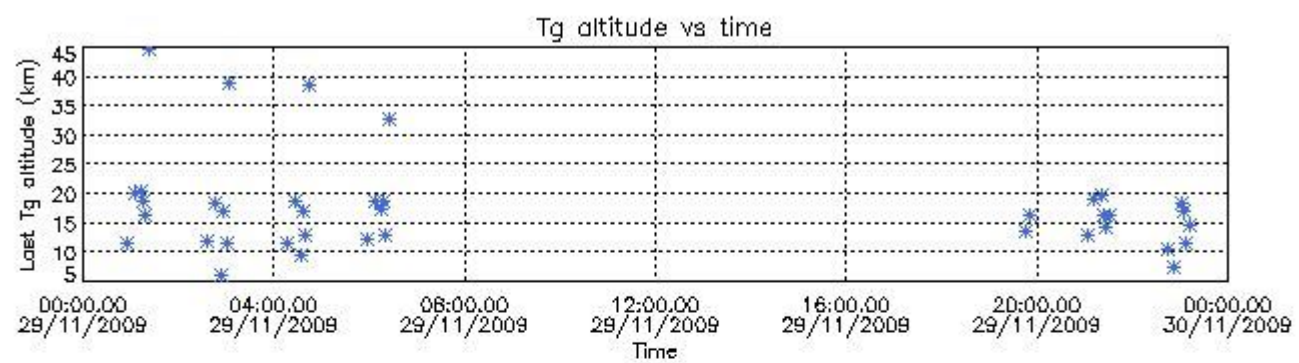
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	17.457	17.397	14.274
St. deviation:	8.3086	6.5870	1.1506
Maximum:	44.623	29.418	15.253
Minimum:	6.0080	3.1678	12.682
Number of data:	38.000	99.000	4.0000

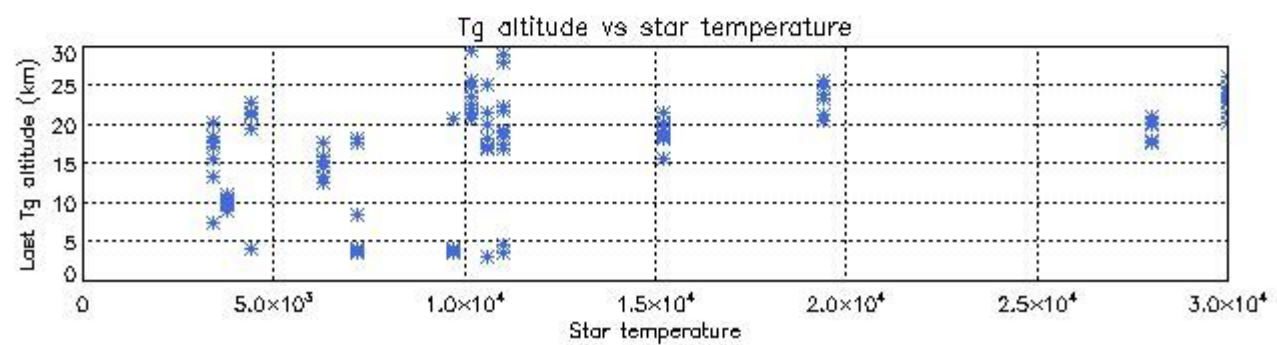
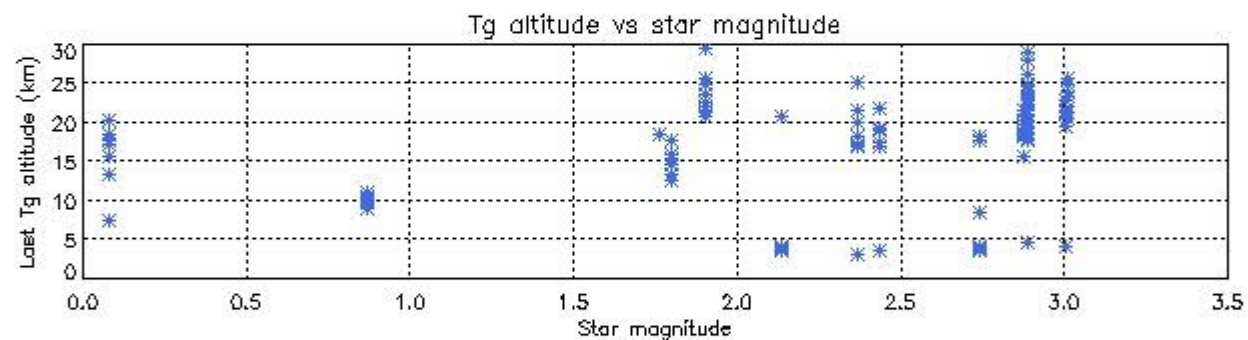
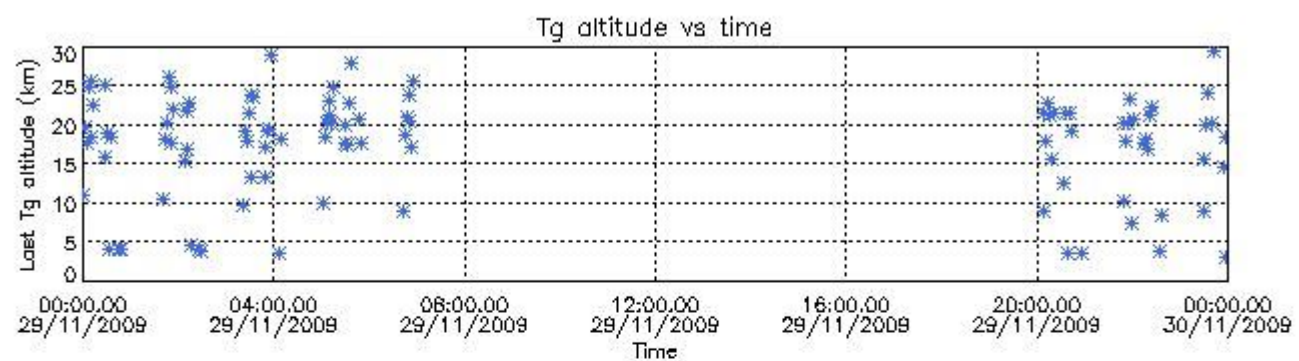
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



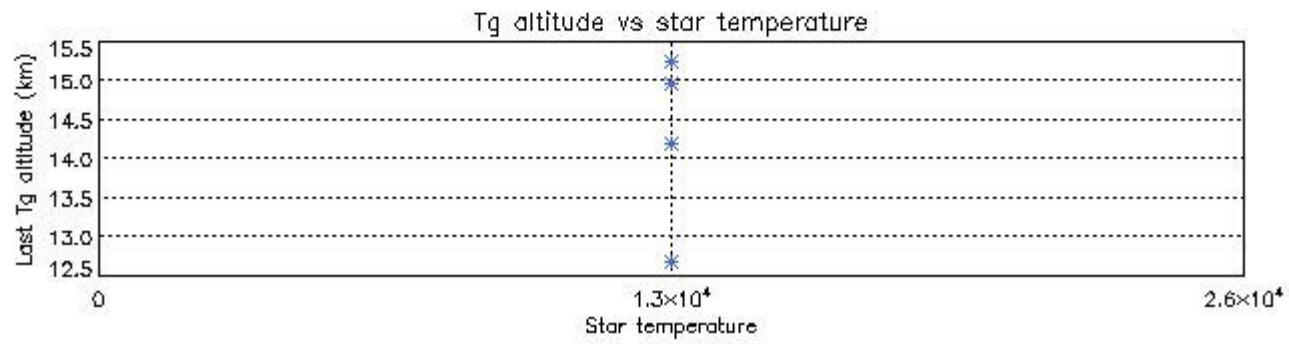
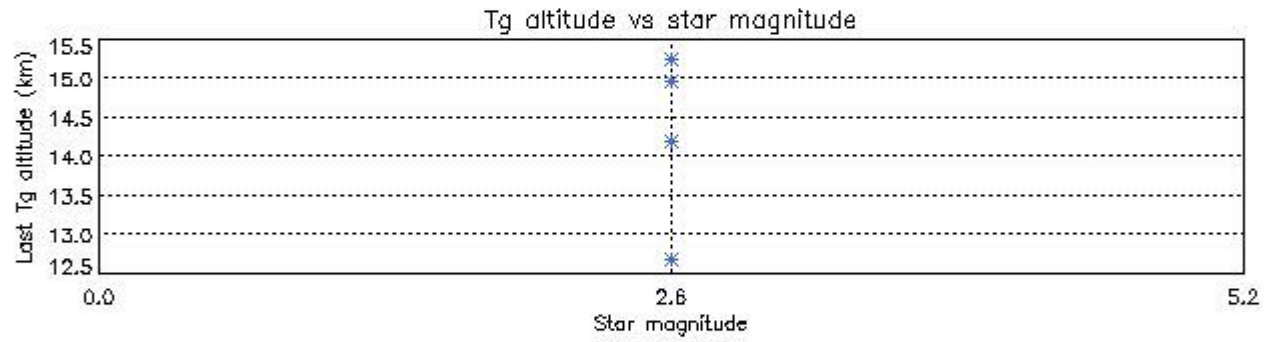
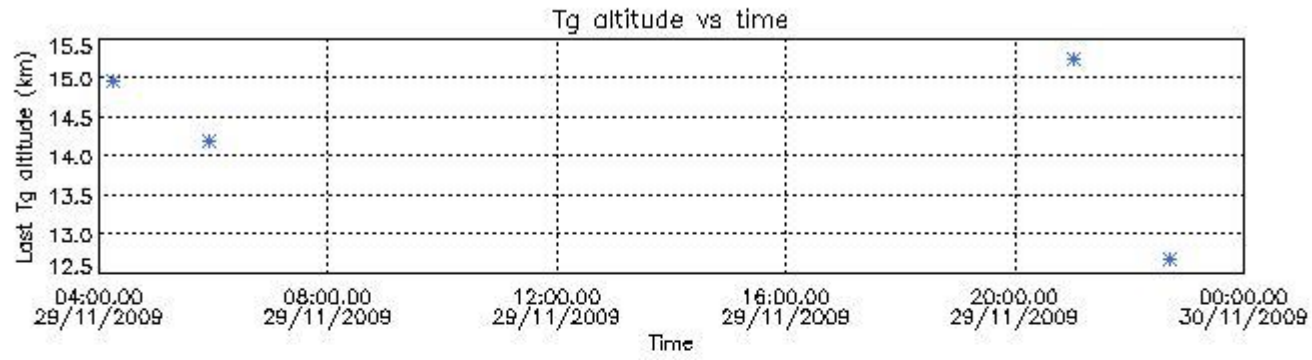
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

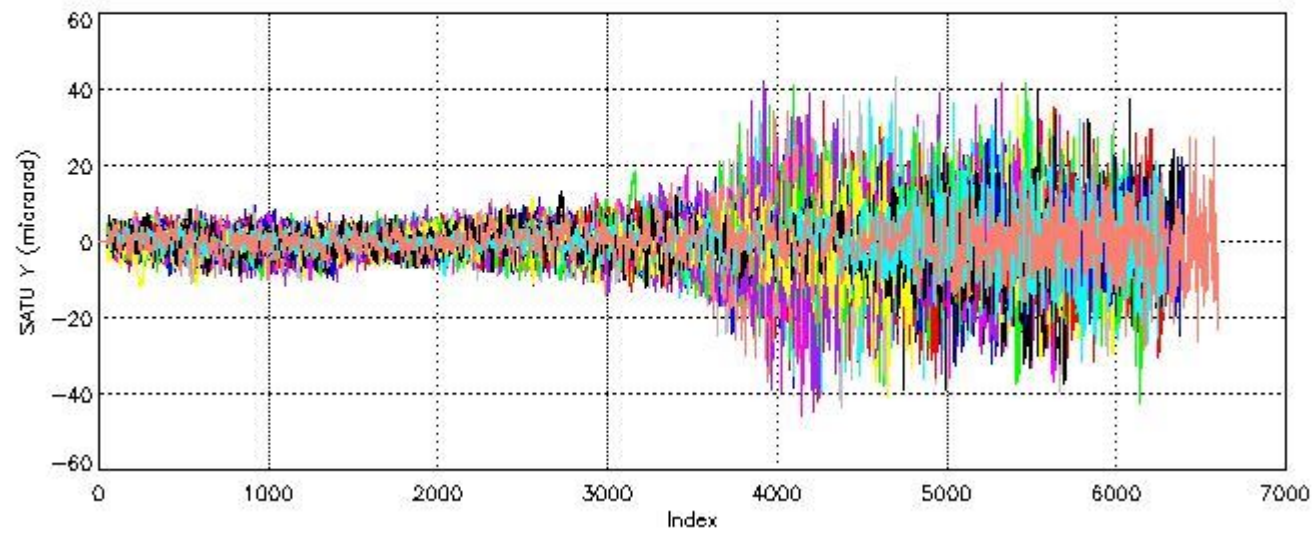
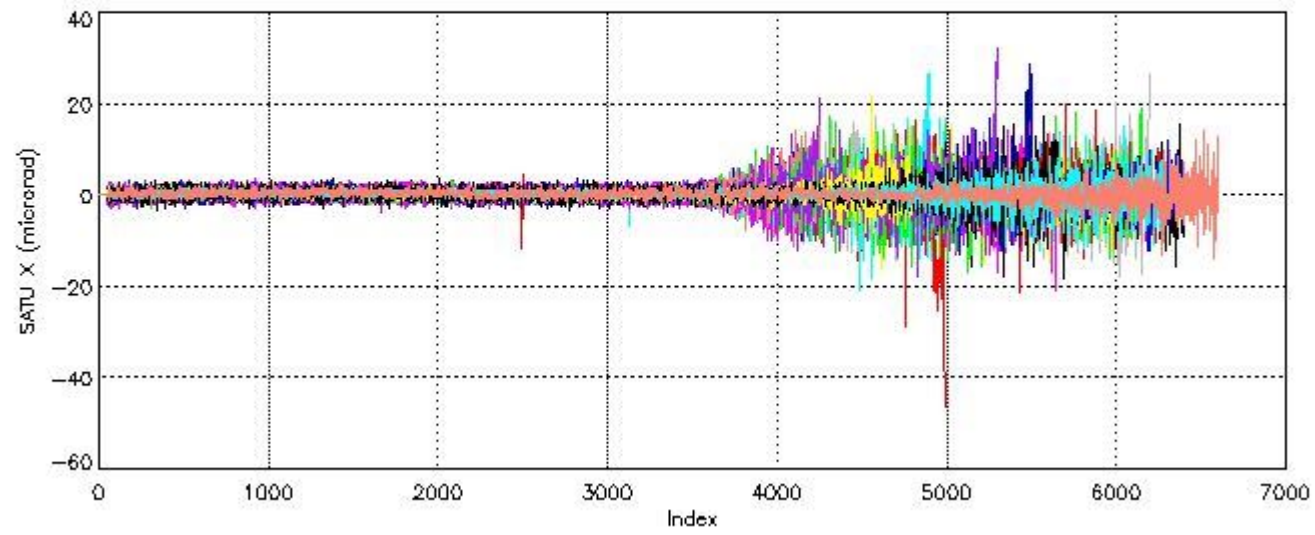


7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.24539	-0.17491	0.20905	-0.27313
St. deviation:	0.60970	2.4502	1.0312	2.8076
Maximum:	3.4000	9.7000	6.9000	25.900
Minimum:	-3.4000	-12.000	-6.9000	-15.500

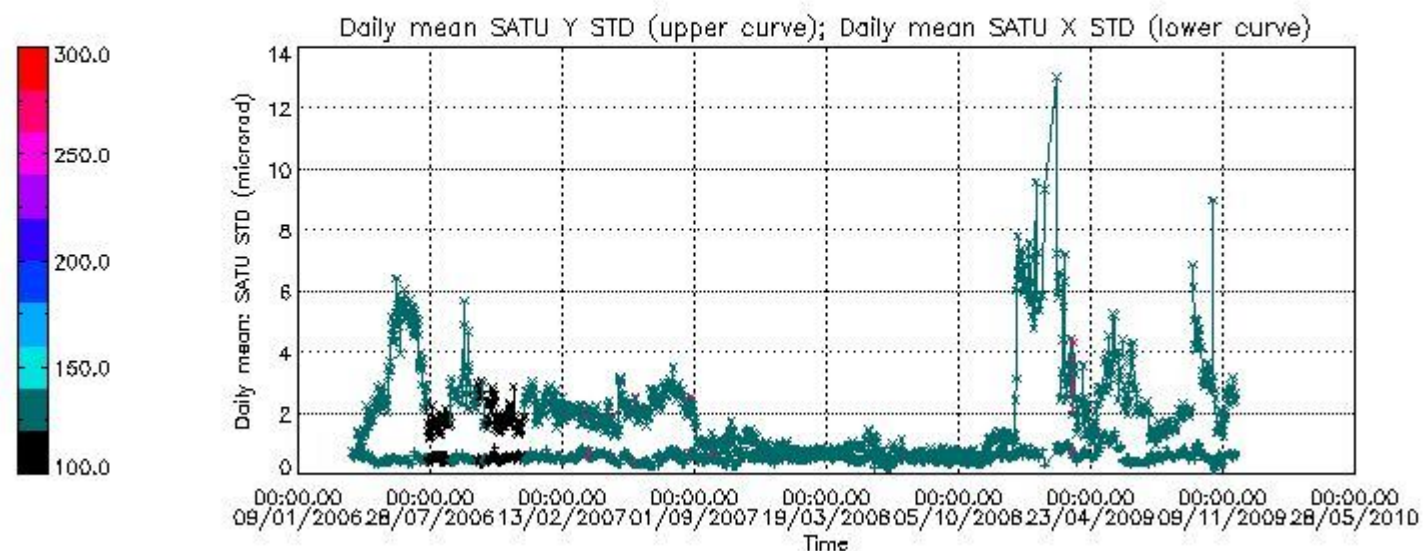
Number of data:	45200.	45200.	1.0190E+05	1.0190E+05
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

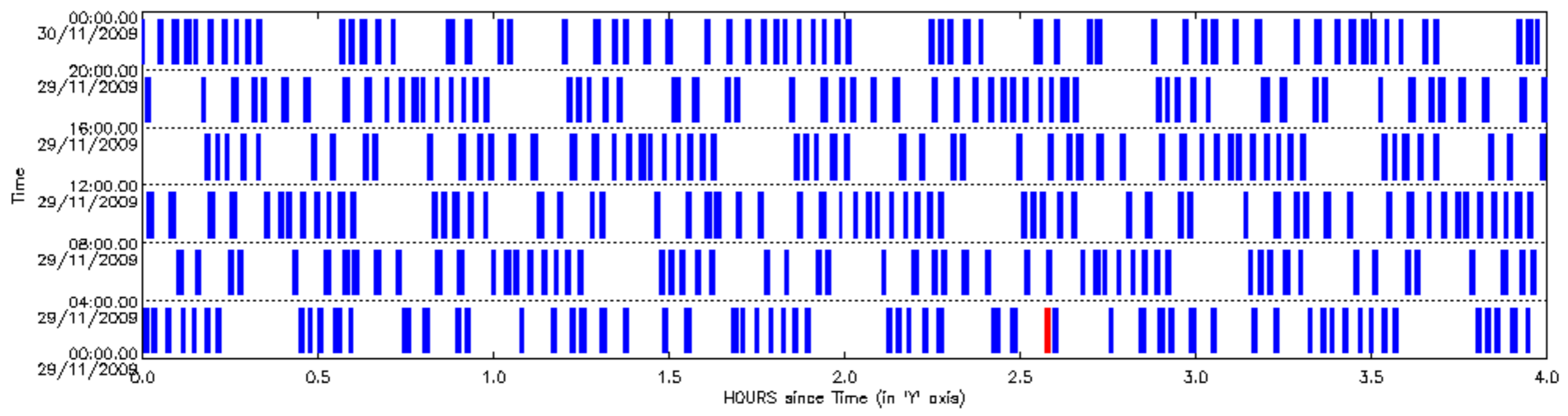
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

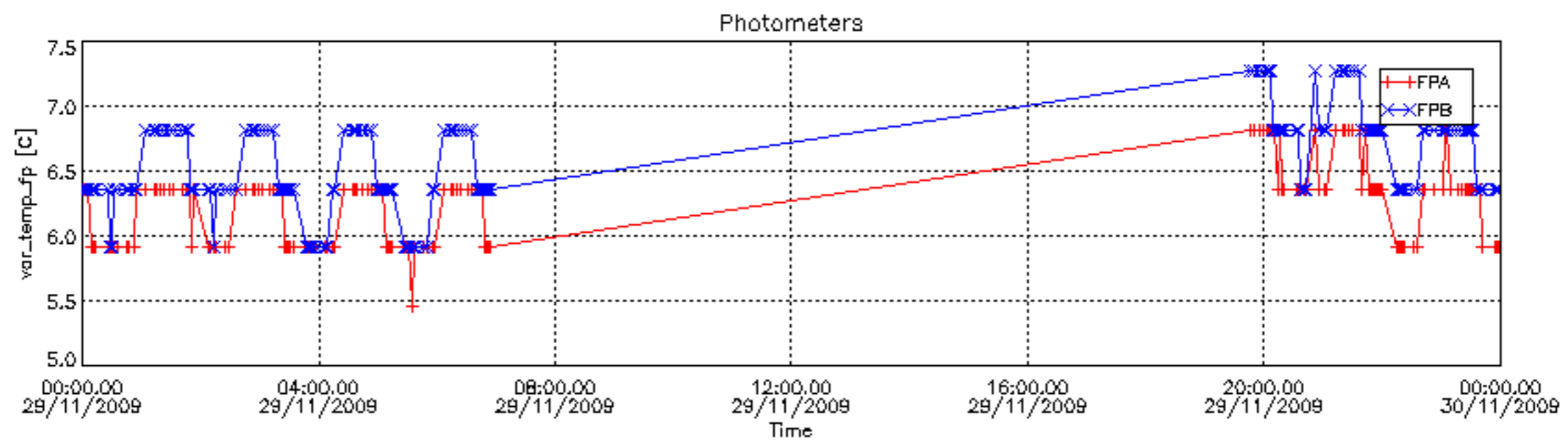
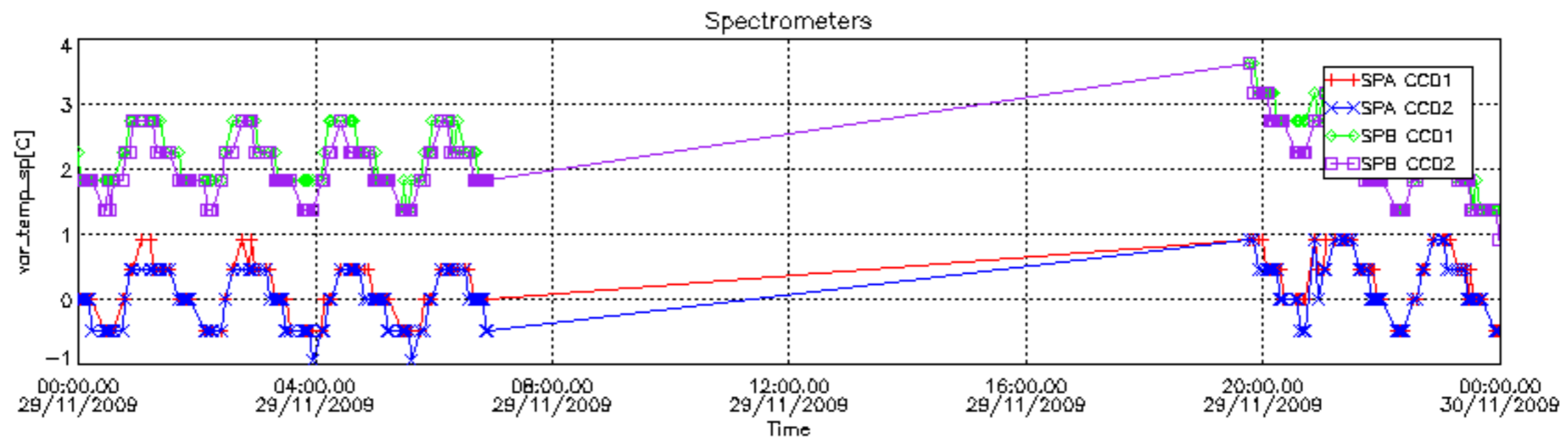


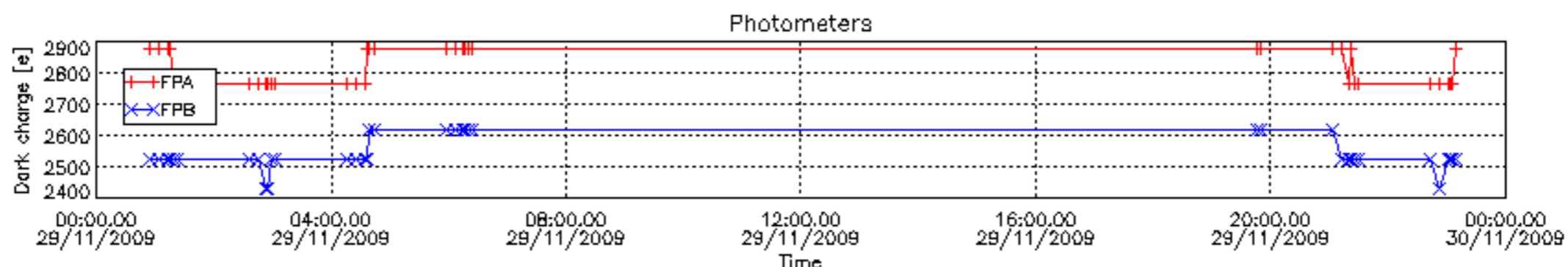
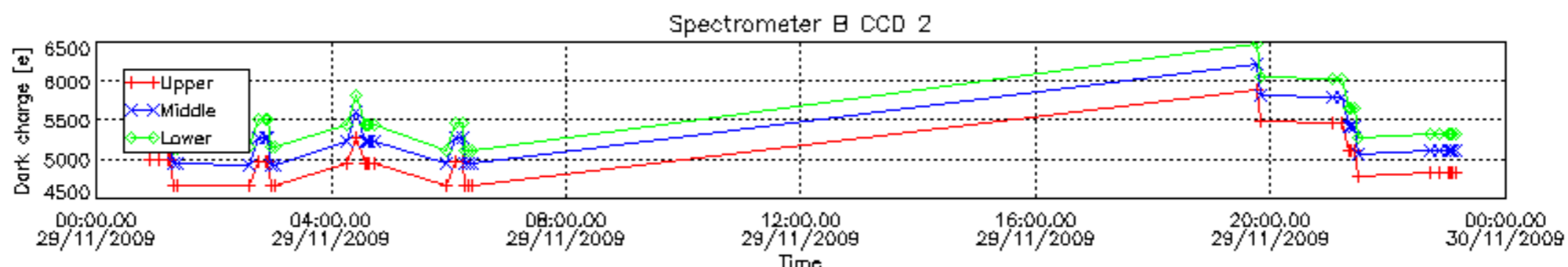
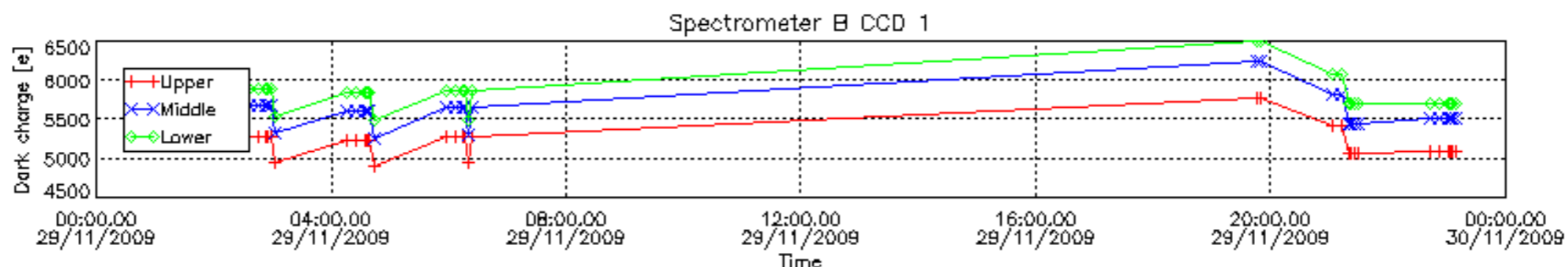
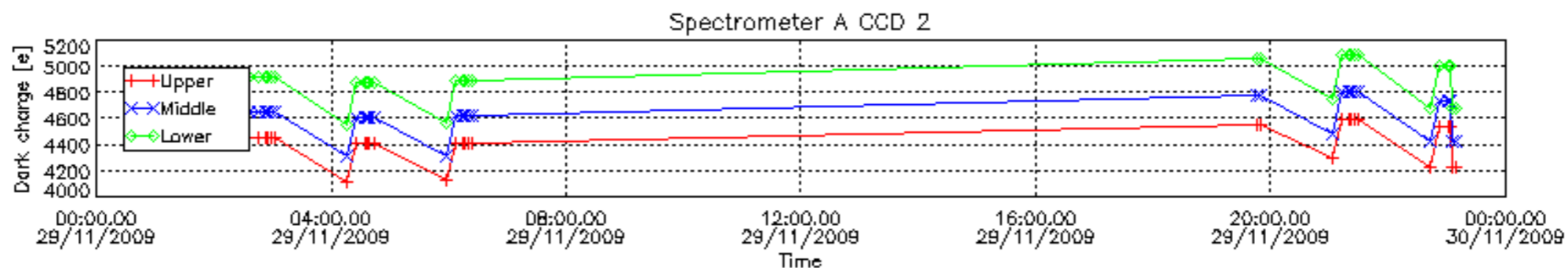
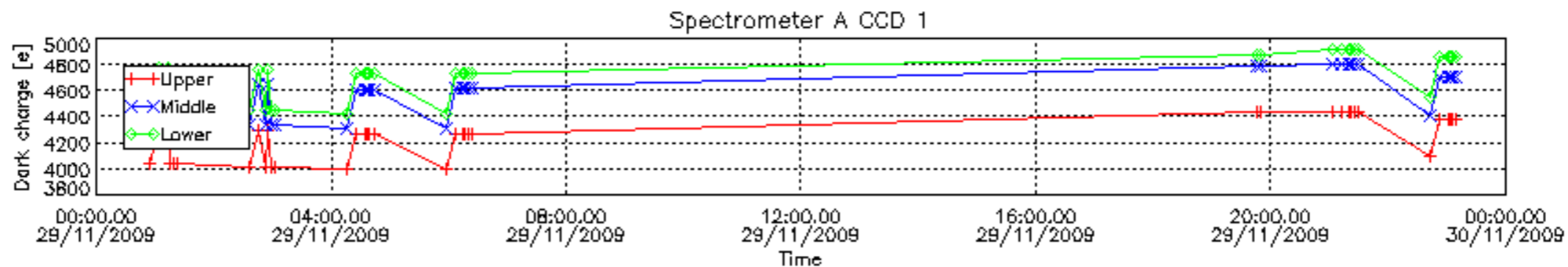
8. Auxiliary Data Files used for the production reported in section 2.4

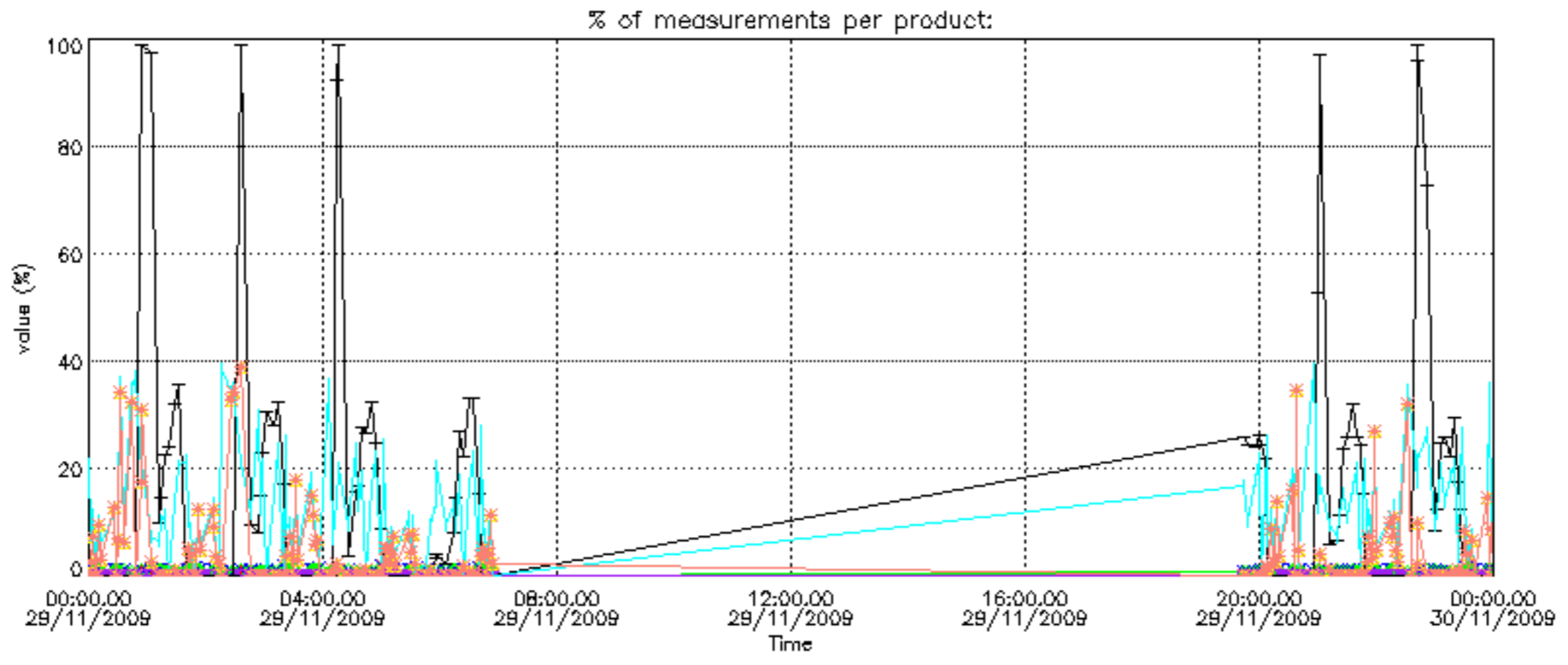
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	29-NOV-2009 00:00:07
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091123_100129_20091121_000000_20500101_000000	1	29-NOV-2009 00:00:07
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	29-NOV-2009 00:00:07
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	29-NOV-2009 00:00:07
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	29-NOV-2009 00:00:07
ECMWF_FILE	AUX_ECF_AXNECM20091128_064111_20091128_210000_20091129_090000	1	29-NOV-2009 00:00:07
ECMWF_FILE	AUX_ECF_AXNECM20091128_181757_20091129_030000_20091129_150000	54	29-NOV-2009 03:47:46
ECMWF_FILE	AUX_ECA_AXNECM20091129_062110_20091128_210000_20091129_090000	78	29-NOV-2009 05:28:21
ECMWF_FILE	AUX_ECA_AXNECM20091129_182110_20091129_090000_20091129_210000	102	29-NOV-2009 19:44:59
ECMWF_FILE	AUX_ECF_AXNECM20091129_064110_20091129_150000_20091130_030000	120	29-NOV-2009 20:51:46
ECMWF_FILE	AUX_ECF_AXNECM20091129_064111_20091129_210000_20091130_090000	147	29-NOV-2009 22:41:18
OPTIONAL_ECMWF_FILE	MISSING	1	29-NOV-2009 00:00:07
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091128_230747_000057382084_00373_40507_9255.N1	1	29-NOV-2009 00:00:07
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091129_004844_000044632084_00374_40508_9256.N1	15	29-NOV-2009 00:53:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091129_020826_000054192084_00375_40509_9257.N1	33	29-NOV-2009 02:10:31
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091129_034404_000057382084_00376_40510_9258.N1	54	29-NOV-2009 03:47:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091129_052501_000054192084_00377_40511_9259.N1	78	29-NOV-2009 05:28:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091129_194026_000038252084_00386_40520_9260.N1	102	29-NOV-2009 19:44:59
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091129_010110_20091128_182056_20091208_212743	120	29-NOV-2009 20:51:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091129_223546_000057382084_00387_40521_9262.N1	147	29-NOV-2009 22:41:18

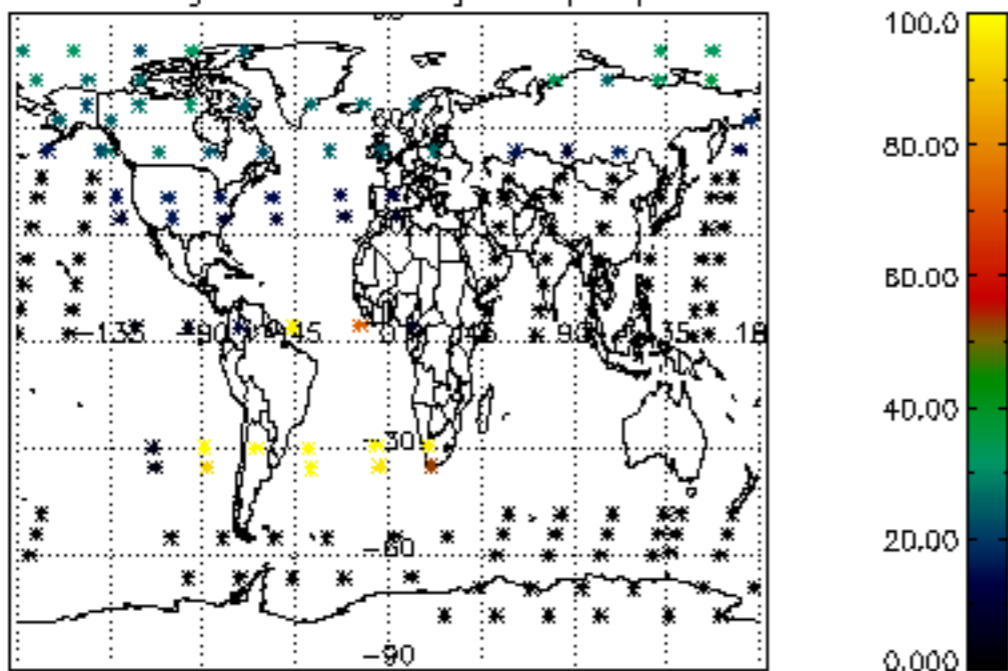




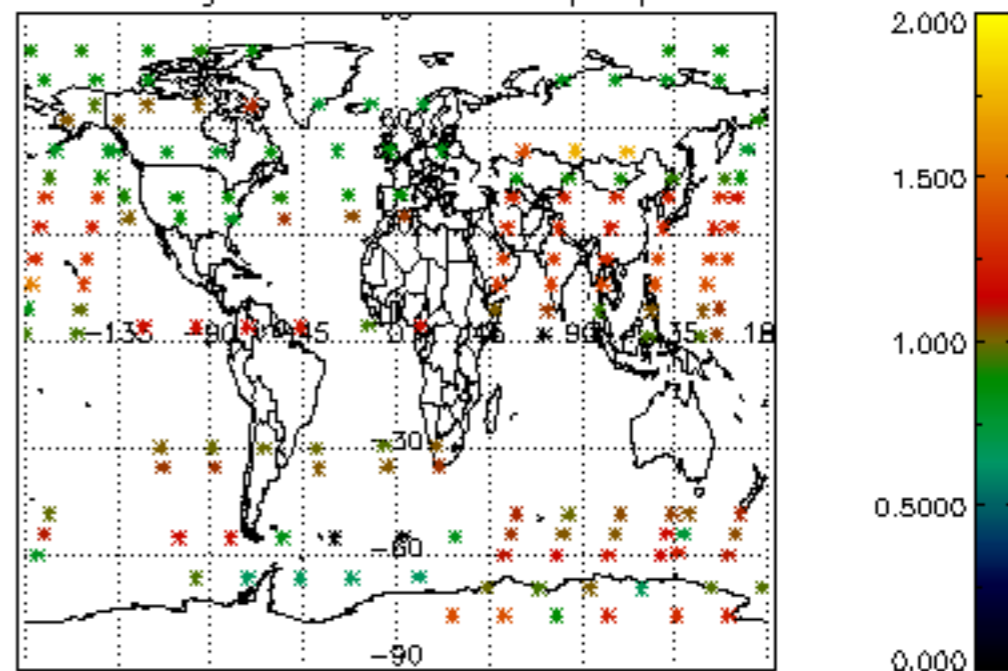




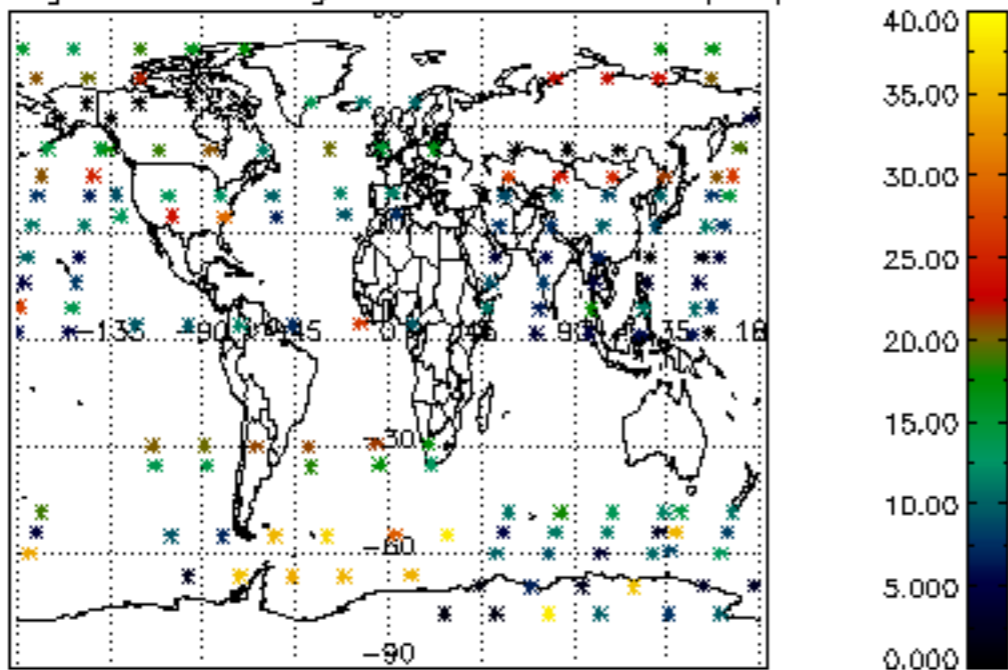
Percentage of cosmic ray hits per profile



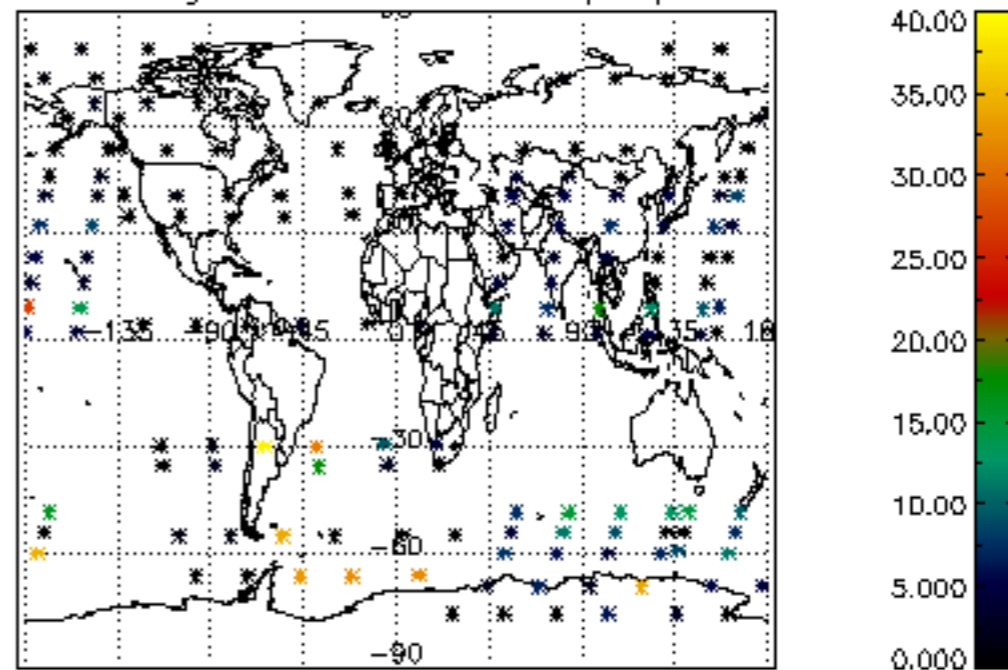
Percentage of datation errors per profile



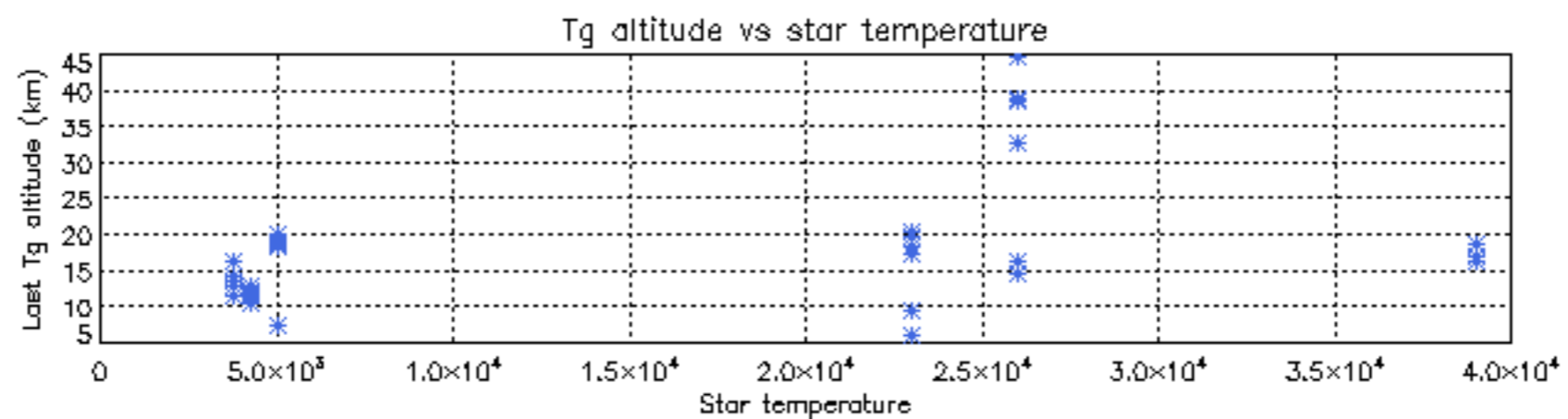
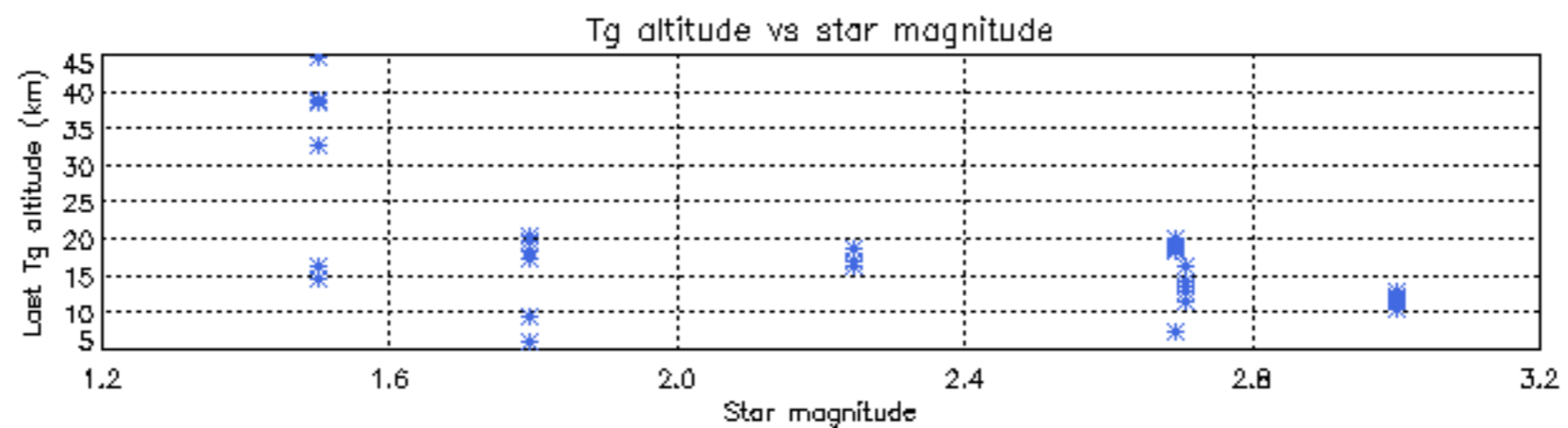
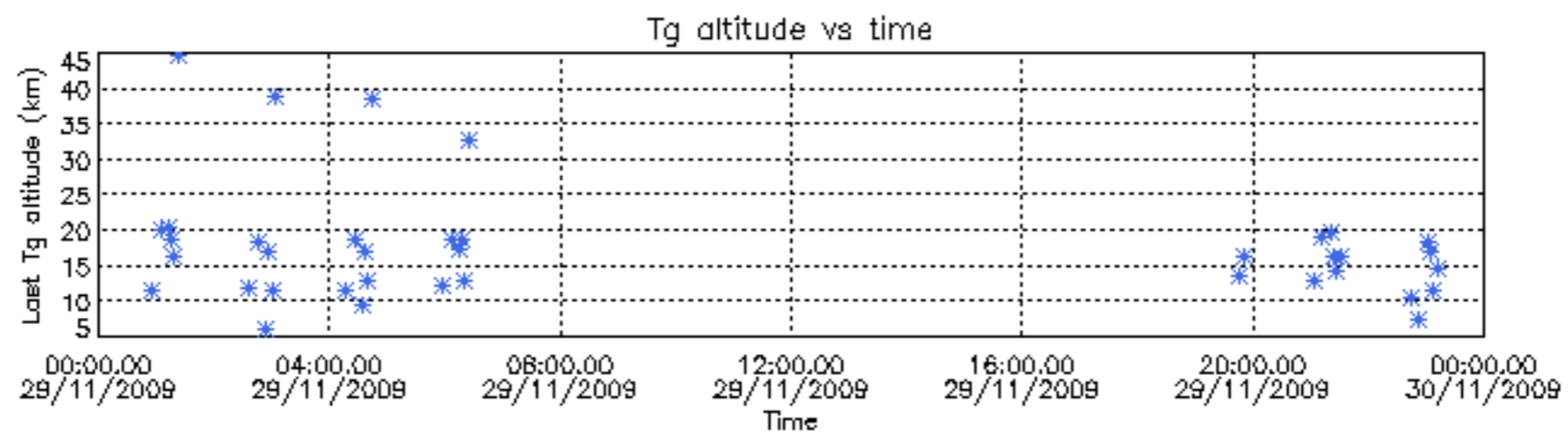
Percentage of star falling outside central band per profile



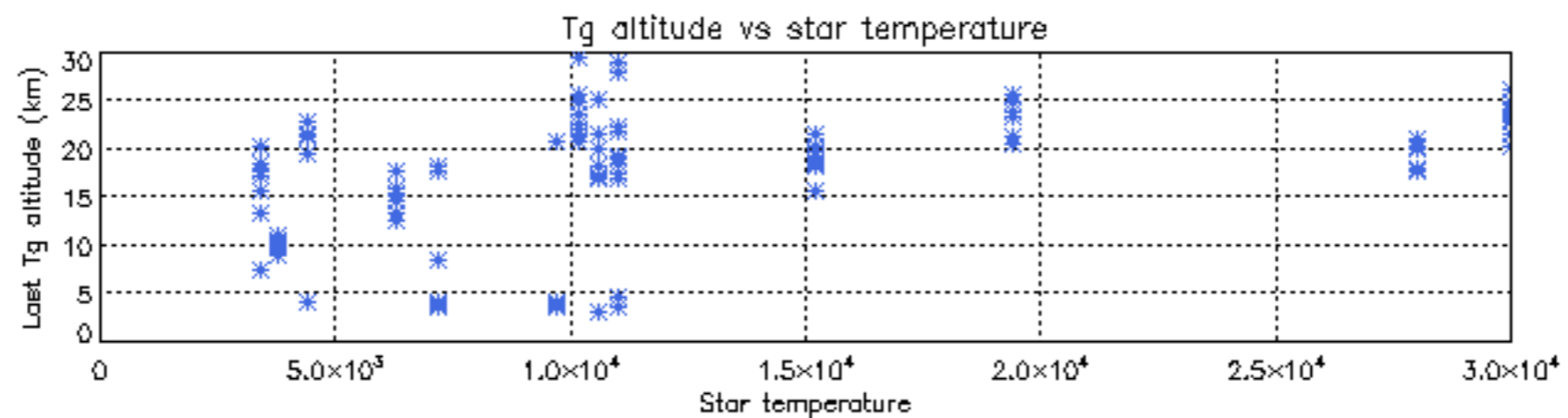
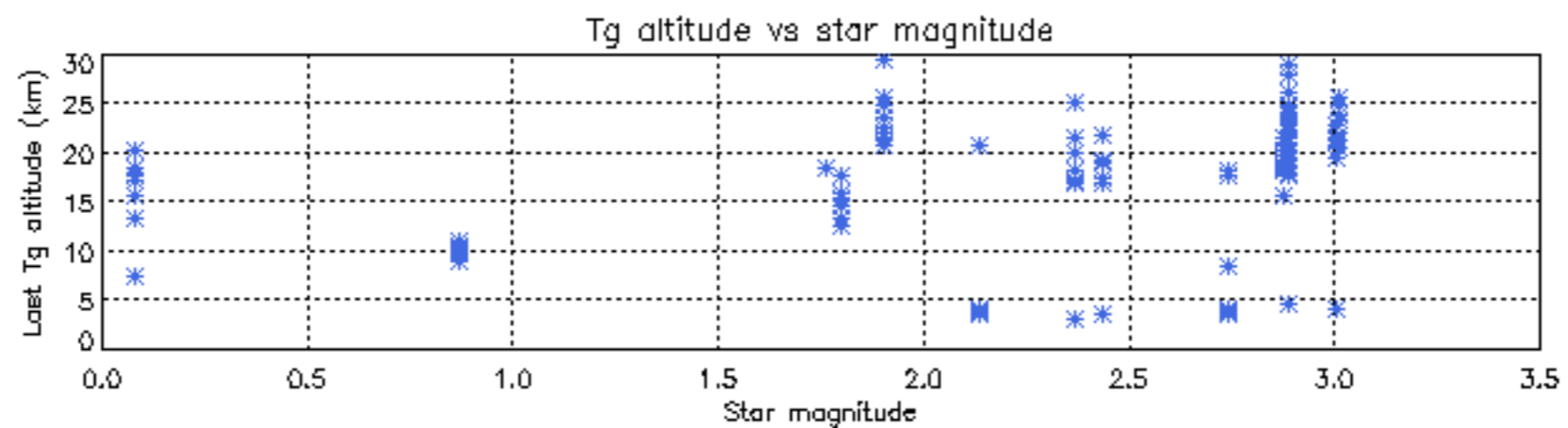
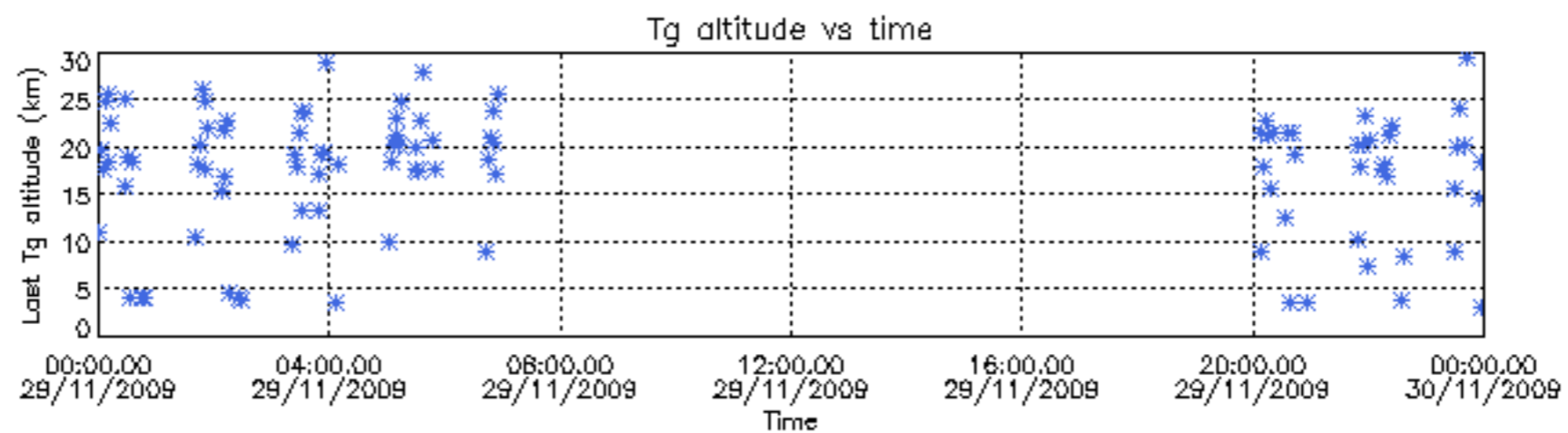
Percentage of saturation errors per profile



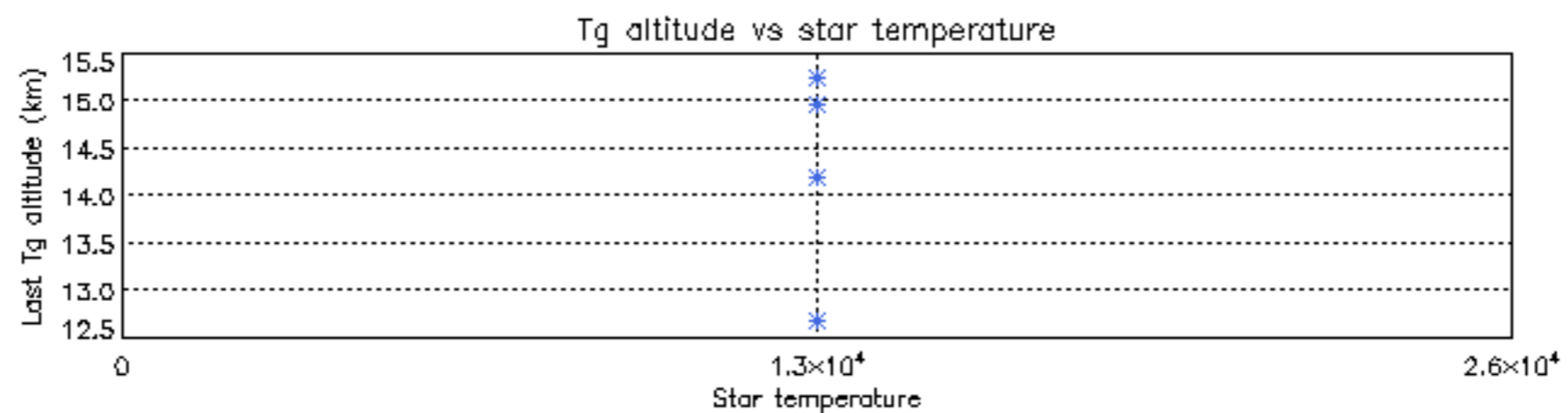
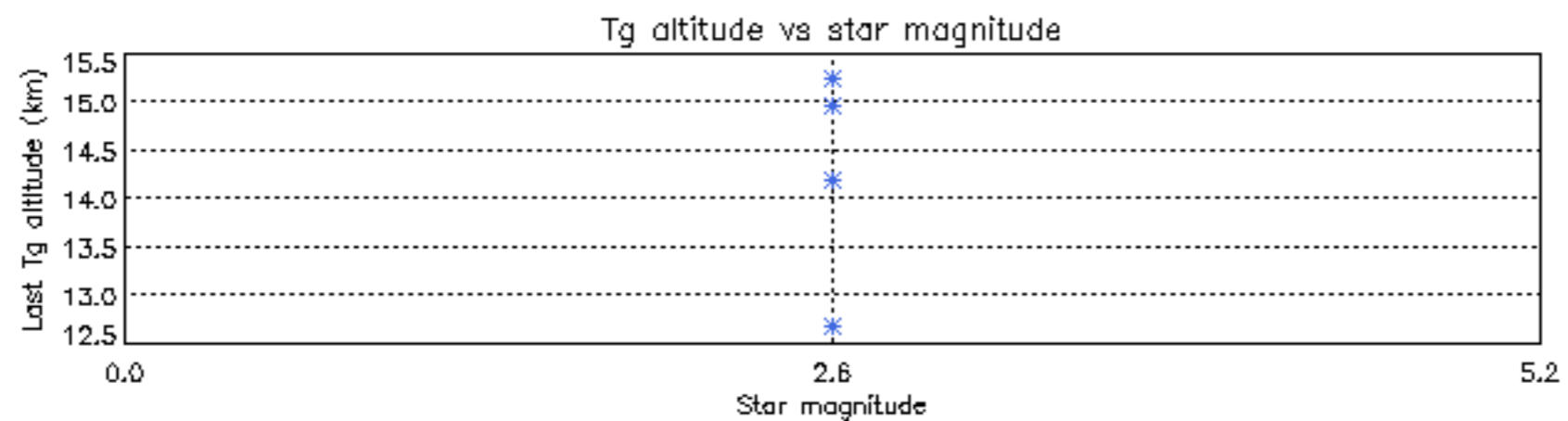
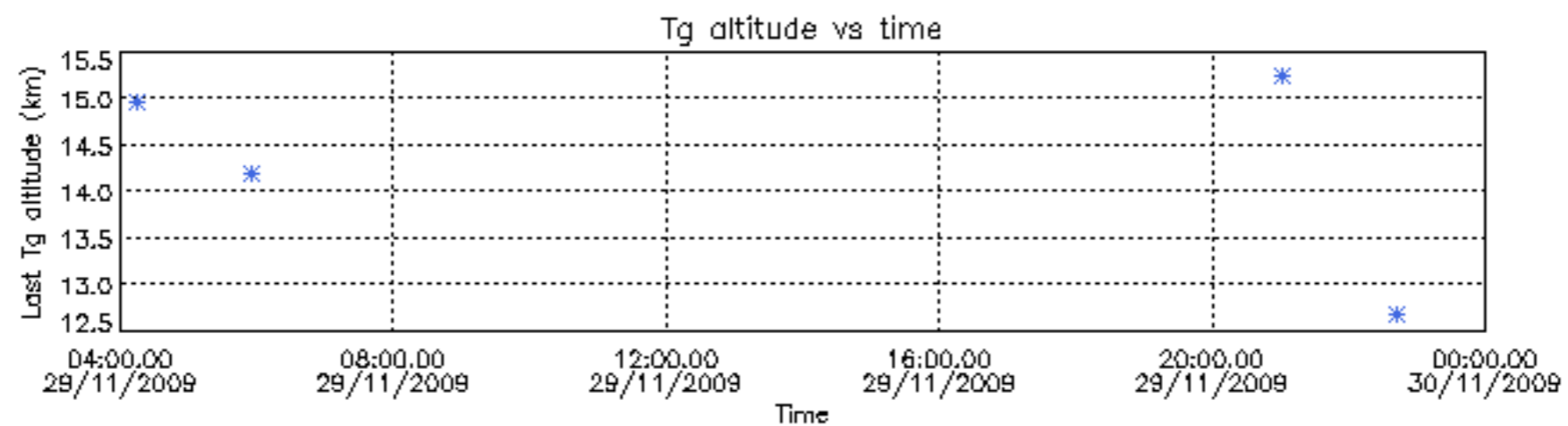
Tangent altitude at which the star is lost

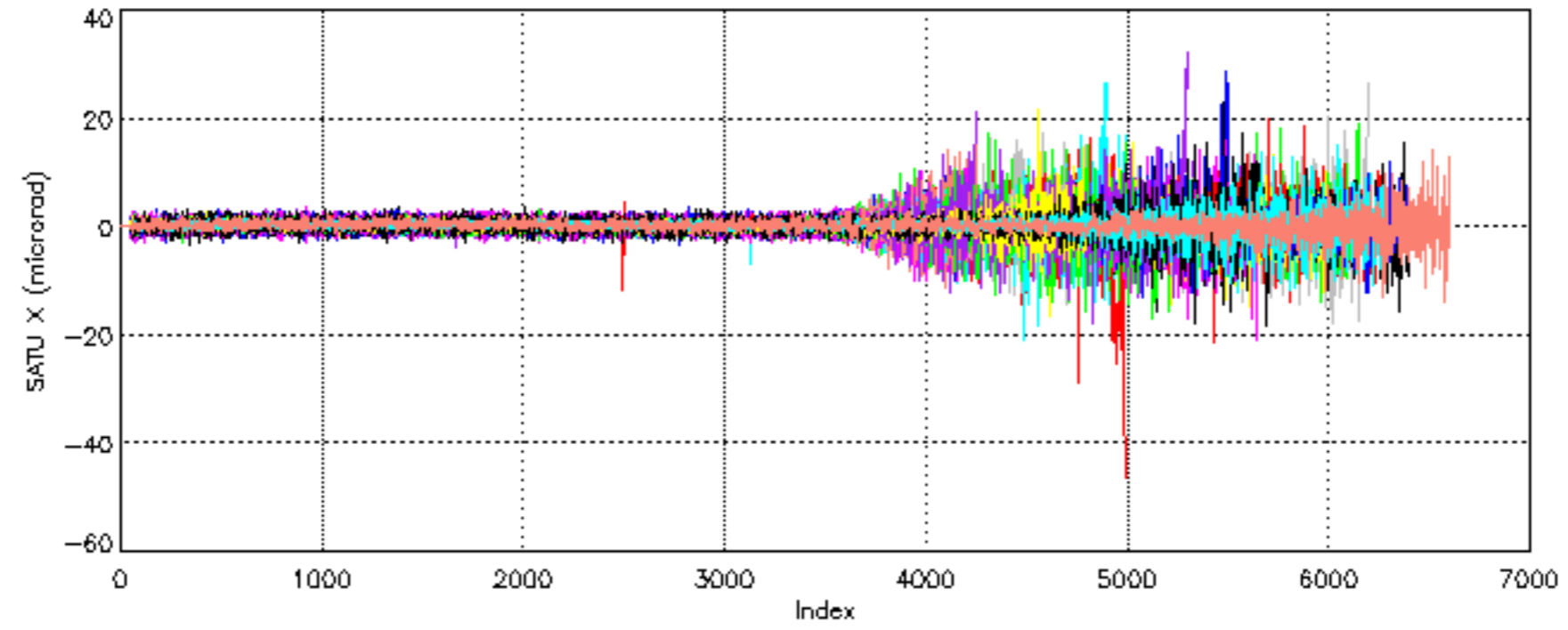


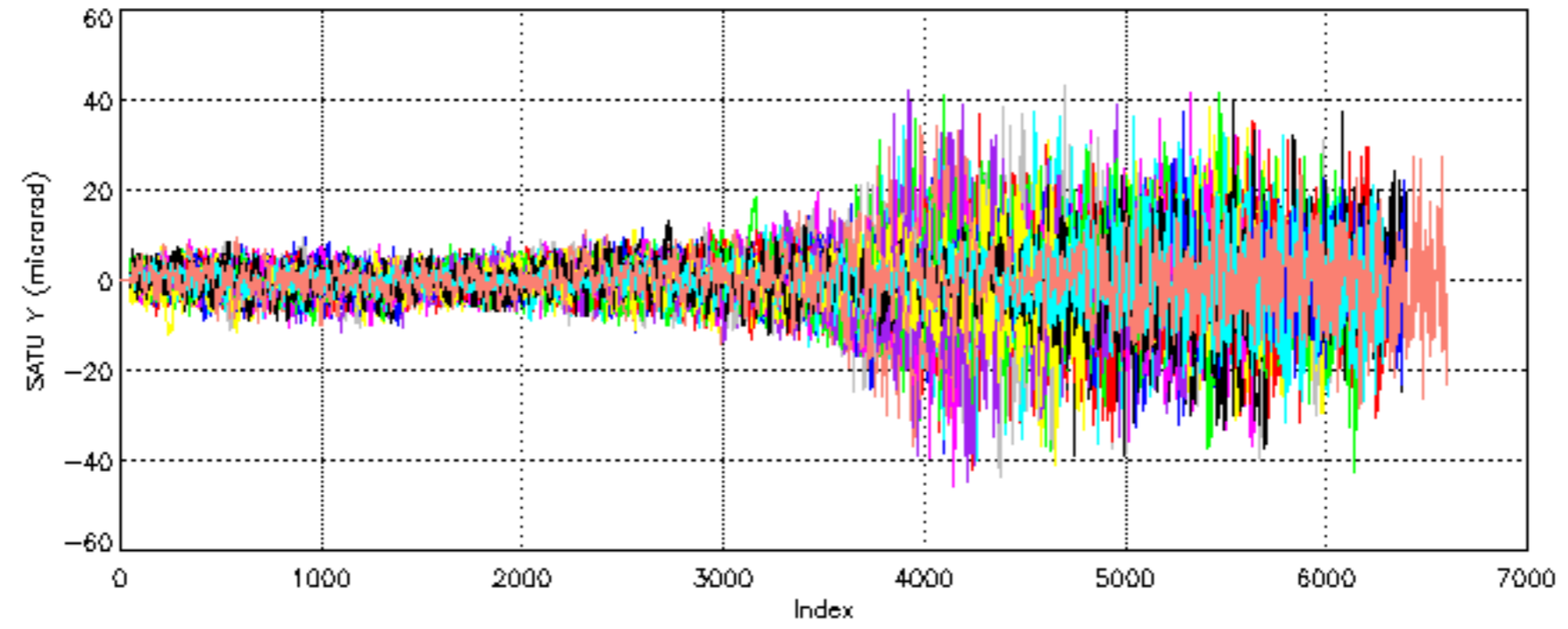
Tangent altitude at which the star is lost

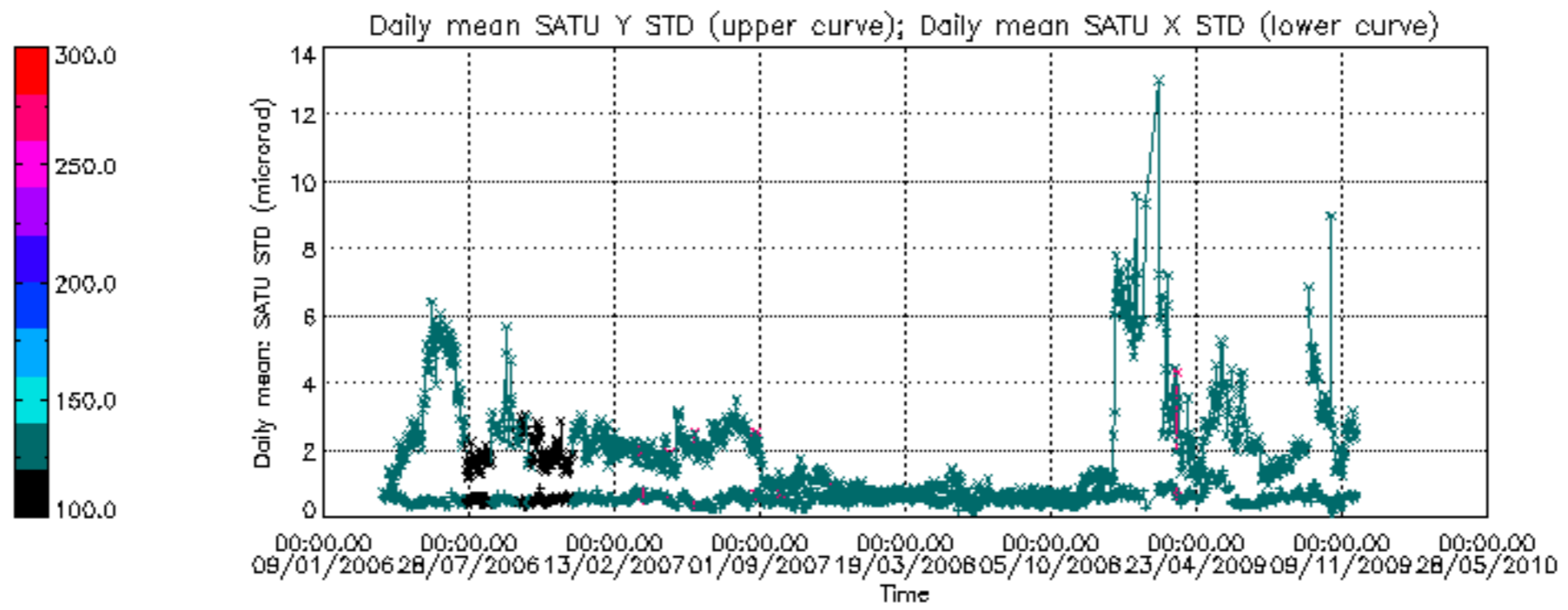


Tangent altitude at which the star is lost









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 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
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 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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 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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 5; -1096.7; 01-NOV-2009 03:46:10; Bright; 53.0; 22; 32Alp Leo ; 1.36; 15200;occ; 106; 0;40109
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 7; -17.4; 01-NOV-2009 04:04:09; Dark ; 52.5; 65; Lam Vel ; 2.20; 4400;occ; 105; 0;40109
 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
 10; 526.2; 01-NOV-2009 04:13:13; Dark ; 50.0; 2; Alp Car ;-0.74; 7000;occ; 100; 0;40110
 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
 13; 2273.1; 01-NOV-2009 04:42:20; Bright; 40.0; 105; 6Bet Ari ; 2.64; 8900;occ; 80; 0;40110
 14; 2538.3; 01-NOV-2009 04:46:45; Bright; 40.0; 173; 4Bet Tri ; 3.00; 8900;occ; 80; 0;40110
 15; 2933.6; 01-NOV-2009 04:53:20; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;40110

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13; 6072.8; 05-NOV-2009 10:21:35; Dark ; 47.5; 65; Lam Vel ; 2.20; 4400;occ; 95; 0;40170
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4; 2642.7; 06-NOV-2009 15:35:11; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;40188
5; 2873.7; 06-NOV-2009 15:39:03; Bright; 43.0; 35; 33Alp Per ; 1.79; 6250;occ; 86; 0;40188
6; 3903.5; 06-NOV-2009 15:56:12; Bright; 36.5; 36; 50Alp UMA ; 1.80; 6300;occ; 73; 0;40188
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12; 6622.3; 06-NOV-2009 16:41:31; Dark ; 55.5; 2; Alp Car ; -0.74; 7000;occ; 111; 0;40188
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3; 2518.9; 06-NOV-2009 17:13:44; Bright; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;40189
4; 2642.3; 06-NOV-2009 17:15:47; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;40189
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2; 1990.9; 06-NOV-2009 18:45:32; Dark ; 51.0; 94; 92Alp Cet ; 2.53; 3100;occ; 102; 0;40190
3; 2264.4; 06-NOV-2009 18:50:05; Bright; 37.0; 105; 6Bet Ari ; 2.64; 8900;occ; 74; 0;40190
4; 2518.7; 06-NOV-2009 18:54:19; Bright; 35.5; 173; 4Bet Tri ; 3.00; 8900;occ; 71; 0;40190
5; 2642.1; 06-NOV-2009 18:56:23; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;40190
6; 2872.6; 06-NOV-2009 19:00:13; Bright; 43.0; 35; 33Alp Per ; 1.79; 6250;occ; 86; 0;40190
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9; 2870.7; 07-NOV-2009 01:42:35; Bright; 42.5; 35; 33Alp Per ; 1.79; 6250;occ; 85; 0;40194
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4; 1171.6; 07-NOV-2009 02:54:52; Dark ; 38.0; 157; The1Eri ; 2.91; 9300;occ; 76; 0;40195
5; 1989.6; 07-NOV-2009 03:08:30; Dark ; 49.5; 94; 92Alp Cet ; 2.53; 3100;occ; 99; 0;40195
6; 2264.1; 07-NOV-2009 03:13:04; Bright; 38.5; 105; 6Bet Ari ; 2.64; 8900;occ; 77; 0;40195
7; 2517.8; 07-NOV-2009 03:17:18; Bright; 38.0; 173; 4Bet Tri ; 3.00; 8900;occ; 76; 0;40195
8; 2641.0; 07-NOV-2009 03:19:21; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;40195
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2;-2036.0; 07-NOV-2009 03:42:00; Bright; 38.0; 82; 48Bet UMA ; 2.37; 10600;occ; 76; 0;40195
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5; 120.5; 07-NOV-2009 04:17:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40196
6; 281.1; 07-NOV-2009 04:20:37; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;40196
7; 591.4; 07-NOV-2009 04:25:48; Dark ; 47.5; 2; Alp Car ;-0.74; 7000;occ; 95; 0;40196
8; 1634.6; 07-NOV-2009 04:43:11; Dark ; 28.0; 165; 34Gam Eri ; 2.95; 3200;occ; 56; 0;40196
9; 1989.6; 07-NOV-2009 04:49:06; Dark ; 50.0; 94; 92Alp Cet ; 2.53; 3100;occ; 100; 0;40196
10; 2264.0; 07-NOV-2009 04:53:40; Bright; 38.5; 105; 6Bet Ari ; 2.64; 8900;occ; 77; 0;40196
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8; 1634.6; 07-NOV-2009 06:23:47; Dark ; 28.0; 165; 34Gam Eri ; 2.95; 3200;occ; 56; 0;40197
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4; 2516.1; 07-NOV-2009 20:03:16; Bright; 37.5; 173; 4Bet Tri ; 3.00; 8900;occ; 75; 0;40205
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8; 3998.6; 07-NOV-2009 20:27:58; Bright; 43.0; 82; 48Bet UMA ; 2.37; 10600;occ; 86; 0;40205
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; -588.2; 19-NOV-2009 22:55:42; Dark ; 43.0; 171; 2Eps Crv ; 3.00; 4250;occ; 86; 0;40378
 3; -26.4; 19-NOV-2009 23:05:04; Dark ; 43.5; 113; Mu Vel ; 2.69; 5000;occ; 87; 0;40378
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 2;-2067.2; 19-NOV-2009 07:25:40; Bright; 42.5; 82; 48Bet UMA ; 2.37; 10600;occ; 85; 0;40369
 3;-1984.2; 19-NOV-2009 07:27:03; Bright; 43.0; 87; 64Gam UMA ; 2.43; 11000;occ; 86; 0;40369
 4;-1818.3; 19-NOV-2009 07:29:49; Bright; 47.0; 174; 52Psi UMA ; 3.00; 4400;occ; 94; 0;40369
 5;-1701.3; 19-NOV-2009 07:31:46; Bright; 33.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 67; 0;40369
 6;-1205.0; 19-NOV-2009 07:40:02; Bright; 45.0; 62; 94Bet Leo ; 2.14; 9700;occ; 90; 0;40369
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 8; -685.1; 19-NOV-2009 07:48:42; Dark ; 43.0; 100; 4Gam Crv ; 2.58; 13100;occ; 86; 0;40369
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11; 264.5; 19-NOV-2009 08:04:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40370
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13; 521.2; 19-NOV-2009 08:08:48; Dark ; 53.0; 70; Zet Pup ; 2.25; 39000;occ; 106; 0;40370
14; 710.4; 19-NOV-2009 08:11:57; Dark ; 48.5; 2; Alp Car ;-0.74; 7000;occ; 97; 0;40370
15; 1110.8; 19-NOV-2009 08:18:38; Dark ; 54.0; 108; Alp Col ; 2.65; 15200;occ; 108; 0;40370
16; 1643.8; 19-NOV-2009 08:27:31; Dark ; 31.0; 165; 34Gam Eri ; 2.95; 3200;occ; 62; 0;40370

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 4; 2528.7; 19-NOV-2009 08:42:16; Bright; 43.5; 150; 44Zet Per ; 2.89; 28000;occ; 87; 0;40370
 5; 2629.5; 19-NOV-2009 08:43:57; Bright; 40.0; 79; 26Bet Per ; 2.31; 13100;occ; 80; 0;40370
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 9; 4051.9; 19-NOV-2009 09:07:39; Bright; 41.0; 87; 64Gam UMa ; 2.43; 11000;occ; 82; 0;40370
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 11; 4334.6; 19-NOV-2009 09:12:22; Bright; 35.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 71; 0;40370
 12; 4831.4; 19-NOV-2009 09:20:38; Bright; 45.5; 62; 94Bet Leo ; 2.14; 9700;occ; 91; 0;40370
 13; 5041.5; 19-NOV-2009 09:24:09; Bright; 38.0; 121; 29Gam Vir ; 2.74; 7200;occ; 76; 0;40370
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 15; 5443.6; 19-NOV-2009 09:30:51; Dark ; 45.5; 171; 2Eps Crv ; 3.00; 4250;occ; 91; 0;40370
 16; 6004.3; 19-NOV-2009 09:40:11; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;40370
 17; 6301.3; 19-NOV-2009 09:45:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40370
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 19; 6558.3; 19-NOV-2009 09:49:25; Dark ; 53.0; 70; Zet Pup ; 2.25; 39000;occ; 106; 0;40370
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 21; 7147.4; 19-NOV-2009 09:59:14; Dark ; 52.0; 108; Alp Col ; 2.65; 15200;occ; 104; 0;40370
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 4; 2528.0; 19-NOV-2009 10:22:51; Bright; 43.0; 150; 44Zet Per ; 2.89; 28000;occ; 86; 0;40371
 5; 2629.3; 19-NOV-2009 10:24:32; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 0;40371
 6; 2797.8; 19-NOV-2009 10:27:21; Bright; 41.0; 35; 33Alp Per ; 1.79; 6250;occ; 82; 0;40371
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 13; 5041.9; 19-NOV-2009 11:04:45; Bright; 36.0; 121; 29Gam Vir ; 2.74; 7200;occ; 72; 0;40371
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 19; 6559.5; 19-NOV-2009 11:30:02; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40371
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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
 6; 2797.3; 19-NOV-2009 12:07:56; Bright; 39.5; 35; 33Alp Per ; 1.79; 6250;occ; 79; 0;40372
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 9; 4051.8; 19-NOV-2009 12:28:51; Bright; 40.5; 87; 64Gam UMa ; 2.43; 11000;occ; 81; 0;40372
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 11; 4334.9; 19-NOV-2009 12:33:34; Bright; 34.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 68; 0;40372
 12; 4832.4; 19-NOV-2009 12:41:51; Bright; 64.0; 62; 94Bet Leo ; 2.14; 9700;occ; 128; 0;40372
 13; 5042.1; 19-NOV-2009 12:45:21; Bright; 39.5; 121; 29Gam Vir ; 2.74; 7200;occ; 79; 0;40372
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 15; 5444.6; 19-NOV-2009 12:52:03; Dark ; 44.0; 171; 2Eps Crv ; 3.00; 4250;occ; 88; 0;40372
 16; 6005.6; 19-NOV-2009 13:01:24; Dark ; 41.0; 113; Mu Vel ; 2.69; 5000;occ; 82; 0;40372
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 5; 2628.8; 19-NOV-2009 13:45:43; Bright; 39.0; 79; 26Bet Per ; 2.31; 13100;occ; 78; 0;40373
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 9; 4051.3; 19-NOV-2009 14:09:26; Bright; 42.0; 87; 64Gam UMA ; 2.43; 11000;occ; 84; 0;40373
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 12; 4833.2; 19-NOV-2009 14:22:28; Bright; 64.0; 62; 94Bet Leo ; 2.14; 9700;occ; 128; 0;40373
 13; 5042.9; 19-NOV-2009 14:25:58; Bright; 55.0; 121; 29Gam Vir ; 2.74; 7200;occ; 110; 0;40373
 14; 5352.7; 19-NOV-2009 14:31:07; Dark ; 46.0; 100; 4Gam Crv ; 2.58; 13100;occ; 92; 0;40373
 15; 5445.1; 19-NOV-2009 14:32:40; Dark ; 48.5; 171; 2Eps Crv ; 3.00; 4250;occ; 97; 0;40373
 16; 6006.4; 19-NOV-2009 14:42:01; Dark ; 43.0; 113; Mu Vel ; 2.69; 5000;occ; 86; 0;40373
 17; 6303.9; 19-NOV-2009 14:46:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40373
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 19; 6562.1; 19-NOV-2009 14:51:17; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40373
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 13; 5043.7; 19-NOV-2009 16:06:34; Bright; 37.0; 121; 29Gam Vir ; 2.74; 7200;occ; 74; 0;40374
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 16; 6007.0; 19-NOV-2009 16:22:38; Dark ; 40.0; 113; Mu Vel ; 2.69; 5000;occ; 80; 0;40374
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 19; 6563.4; 19-NOV-2009 16:31:54; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40374
 20; 6749.7; 19-NOV-2009 16:35:00; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;40374
 21; 7149.8; 19-NOV-2009 16:41:40; Dark ; 51.0; 108; Alp Col ; 2.65; 15200;occ; 102; 0;40374

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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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 5; 2626.7; 28-NOV-2009 12:22:19; Bright; 39.0; 149; 45Eps Per ; 2.89; 30000;occ; 78; 0;40501
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 16; 5432.9; 28-NOV-2009 13:09:05; Dark ; 46.5; 100; 4Gam Crv ; 2.58; 13100;occ; 93; 0;40501
 17; 5527.9; 28-NOV-2009 13:10:40; Dark ; 47.0; 171; 2Eps Crv ; 3.00; 4250;occ; 94; 0;40501
 18; 6096.7; 28-NOV-2009 13:20:09; Dark ; 41.5; 113; Mu Vel ; 2.69; 5000;occ; 83; 0;40501
 19; 6413.1; 28-NOV-2009 13:25:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40501
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 21; 6709.2; 28-NOV-2009 13:30:21; Dark ; 56.0; 70; Zet Pup ; 2.25; 39000;occ; 112; 0;40501
 22; 6924.3; 28-NOV-2009 13:33:56; Dark ; 65.0; 117; Pi Pup ; 2.71; 3800;occ; 130; 0;40501
 23; 7157.2; 28-NOV-2009 13:37:49; Dark ; 37.0; 23; 21Eps CMa ; 1.50; 26000;occ; 74; 0;40501
 24; 7222.5; 28-NOV-2009 13:38:55; Dark ; 54.5; 177; 1Zet CMa ; 3.02; 26000;occ; 109; 0;40501
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 3; 2245.5; 28-NOV-2009 13:56:34; Bright; 54.0; 13; 87Alp Tau ; 0.87; 3800;occ; 108; 0;40502
 4; 2335.0; 28-NOV-2009 13:58:03; Bright; 42.0; 146; 25Eta Tau ; 2.87; 15200;occ; 84; 0;40502
 5; 2479.6; 28-NOV-2009 14:00:28; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;40502
 6; 2626.7; 28-NOV-2009 14:02:55; Bright; 53.0; 149; 45Eps Per ; 2.89; 30000;occ; 106; 0;40502
 7; 2745.7; 28-NOV-2009 14:04:54; Bright; 37.5; 175; 39Del Per ; 3.01; 19400;occ; 75; 0;40502
 8; 2872.4; 28-NOV-2009 14:07:00; Bright; 48.0; 6; 13Alp Aur ; 0.08; 3400;occ; 96; 0;40502
 9; 2992.7; 28-NOV-2009 14:09:01; Bright; 53.0; 42; 34Bet Aur ; 1.90; 10200;occ; 106; 0;40502
 10; 3832.9; 28-NOV-2009 14:23:01; Bright; 44.0; 36; 50Alp UMa ; 1.80; 6300;occ; 88; 0;40502
 11; 3930.1; 28-NOV-2009 14:24:38; Bright; 48.5; 82; 48Bet UMa ; 2.37; 10600;occ; 97; 0;40502
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 13; 4196.0; 28-NOV-2009 14:29:04; Bright; 53.0; 174; 52Psi UMa ; 3.00; 4400;occ; 106; 0;40502
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 16; 5101.3; 28-NOV-2009 14:44:09; Bright; 60.0; 121; 29Gam Vir ; 2.74; 7200;occ; 120; 0;40502
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 21; 6610.7; 28-NOV-2009 15:09:19; Dark ; 51.5; 34; Gam2Vel ; 1.79; 23000;occ; 103; 0;40502
 22; 6710.2; 28-NOV-2009 15:10:58; Dark ; 57.0; 70; Zet Pup ; 2.25; 39000;occ; 114; 0;40502
 23; 6925.4; 28-NOV-2009 15:14:33; Dark ; 58.0; 117; Pi Pup ; 2.71; 3800;occ; 116; 0;40502
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 3; 2245.1; 28-NOV-2009 15:37:09; Bright; 57.0; 13; 87Alp Tau ; 0.87; 3800;occ; 114; 0;40503
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 5; 2479.5; 28-NOV-2009 15:41:03; Bright; 40.5; 150; 44Zet Per ; 2.89; 28000;occ; 81; 0;40503
 6; 2626.2; 28-NOV-2009 15:43:30; Bright; 38.0; 149; 45Eps Per ; 2.89; 30000;occ; 76; 0;40503
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 9; 2991.6; 28-NOV-2009 15:49:36; Bright; 54.0; 42; 34Bet Aur ; 1.90; 10200;occ; 108; 0;40503
 10; 3833.1; 28-NOV-2009 16:03:37; Bright; 49.0; 36; 50Alp UMa ; 1.80; 6300;occ; 98; 0;40503
 11; 3930.0; 28-NOV-2009 16:05:14; Bright; 47.5; 82; 48Bet UMa ; 2.37; 10600;occ; 95; 0;40503
 12; 4032.9; 28-NOV-2009 16:06:57; Bright; 62.0; 87; 64Gam UMa ; 2.43; 11000;occ; 124; 0;40503
 13; 4195.7; 28-NOV-2009 16:09:40; Bright; 54.5; 174; 52Psi UMa ; 3.00; 4400;occ; 109; 0;40503
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 16; 5101.3; 28-NOV-2009 16:24:45; Bright; 43.0; 121; 29Gam Vir ; 2.74; 7200;occ; 86; 0;40503
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 18; 5529.3; 28-NOV-2009 16:31:53; Dark ; 48.5; 171; 2Eps Crv ; 3.00; 4250;occ; 97; 0;40503
 19; 6098.4; 28-NOV-2009 16:41:22; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40503
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 23; 6926.4; 28-NOV-2009 16:55:10; Dark ; 60.5; 117; Pi Pup ; 2.71; 3800;occ; 121; 0;40503
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7; 2479.1; 28-NOV-2009 17:21:39; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;40504
8; 2625.9; 28-NOV-2009 17:24:06; Bright; 39.0; 149; 45Eps Per ; 2.89; 30000;occ; 78; 0;40504
9; 2745.3; 28-NOV-2009 17:26:05; Bright; 38.0; 175; 39Del Per ; 3.01; 19400;occ; 76; 0;40504
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22; 6415.7; 28-NOV-2009 18:27:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40504
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6; 680.8; 29-NOV-2009 01:14:40; Dark ; 55.0; 70; Zet Pup ; 2.25; 39000;occ; 110; 0;40509
7; 894.6; 29-NOV-2009 01:18:14; Dark ; 57.5; 117; Pi Pup ; 2.71; 3800;occ; 115; 0;40509
8; 1126.5; 29-NOV-2009 01:22:06; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;40509
9; 1531.7; 29-NOV-2009 01:28:51; Dark ; 55.0; 101; 11Alp Lep ; 2.58; 7000;occ; 110; 0;40509
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 10; 1752.2; 01-DEC-2009 00:29:17; Dark ; 57.0; 7; 19Bet Ori ; 0.10; 14000;occ; 114; 0;40537
 11; 1933.4; 01-DEC-2009 00:32:19; Dark ; 63.0; 30; 46Eps Ori ; 1.69; 30000;occ; 126; 0;40537
 12; 2096.9; 01-DEC-2009 00:35:02; Dark ; 62.5; 27; 24Gam Ori ; 1.64; 26000;occ; 125; 0;40537
 13; 2232.1; 01-DEC-2009 00:37:17; Bright; 52.5; 13; 87Alp Tau ; 0.87; 3800;occ; 105; 0;40537
 14; 2328.6; 01-DEC-2009 00:38:54; Bright; 41.0; 146; 25Eta Tau ; 2.87; 15200;occ; 82; 0;40537
 15; 2470.6; 01-DEC-2009 00:41:16; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;40537
 16; 2616.4; 01-DEC-2009 00:43:42; Bright; 37.0; 149; 45Eps Per ; 2.89; 30000;occ; 74; 0;40537
 17; 2848.1; 01-DEC-2009 00:47:33; Bright; 52.0; 6; 13Alp Aur ; 0.08; 3400;occ; 104; 0;40537
 18; 2957.8; 01-DEC-2009 00:49:23; Bright; 51.0; 42; 34Bet Aur ; 1.90; 10200;occ; 102; 0;40537
 19; 3821.1; 01-DEC-2009 01:03:46; Bright; 50.0; 36; 50Alp UMa ; 1.80; 6300;occ; 100; 0;40537
 20; 3917.5; 01-DEC-2009 01:05:23; Bright; 45.0; 82; 48Bet UMa ; 2.37; 10600;occ; 90; 0;40537
 21; 4014.5; 01-DEC-2009 01:07:00; Bright; 41.5; 32; 77Eps UMa ; 1.76; 11000;occ; 83; 0;40537
 22; 4187.4; 01-DEC-2009 01:09:53; Bright; 50.5; 174; 52Psi UMa ; 3.00; 4400;occ; 101; 0;40537
 23; 4347.9; 01-DEC-2009 01:12:33; Bright; 40.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 80; 0;40537
 24; 4922.8; 01-DEC-2009 01:22:08; Bright; 58.5; 62; 94Bet Leo ; 2.14; 9700;occ; 117; 0;40537
 25; 5120.4; 01-DEC-2009 01:25:26; Bright; 61.5; 121; 29Gam Vir ; 2.74; 7200;occ; 123; 0;40537

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 4; 2236.0; 30-NOV-2009 07:51:22; Bright; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;40527
 5; 2330.4; 30-NOV-2009 07:52:56; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;40527
 6; 2473.2; 30-NOV-2009 07:55:19; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;40527
 7; 2619.3; 30-NOV-2009 07:57:45; Bright; 37.5; 149; 45Eps Per ; 2.89; 30000;occ; 75; 0;40527
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 9; 2967.6; 30-NOV-2009 08:03:34; Bright; 51.5; 42; 34Bet Aur ; 1.90; 10200;occ; 103; 0;40527
 10; 3824.7; 30-NOV-2009 08:17:51; Bright; 43.5; 36; 50Alp UMa ; 1.80; 6300;occ; 87; 0;40527
 11; 3921.6; 30-NOV-2009 08:19:28; Bright; 43.0; 82; 48Bet UMa ; 2.37; 10600;occ; 86; 0;40527
 12; 4015.5; 30-NOV-2009 08:21:02; Bright; 38.0; 32; 77Eps UMa ; 1.76; 11000;occ; 76; 0;40527
 13; 4190.0; 30-NOV-2009 08:23:56; Bright; 76.0; 174; 52Psi UMa ; 3.00; 4400;occ; 152; 0;40527
 14; 4347.6; 30-NOV-2009 08:26:34; Bright; 38.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 76; 0;40527
 15; 4916.2; 30-NOV-2009 08:36:02; Bright; 54.5; 62; 94Bet Leo ; 2.14; 9700;occ; 109; 0;40527

16; 5114.6; 30-NOV-2009 08:39:21; Bright; 41.5; 121; 29Gam Vir ; 2.74; 7200;occ; 83; 0;40527
 17; 5452.5; 30-NOV-2009 08:44:59; Dark ; 48.0; 100; 4Gam Crv ; 2.58; 13100;occ; 96; 0;40527
 18; 5547.9; 30-NOV-2009 08:46:34; Dark ; 49.0; 171; 2Eps Crv ; 3.00; 4250;occ; 98; 0;40527
 19; 6116.7; 30-NOV-2009 08:56:03; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40527
 20; 6435.1; 30-NOV-2009 09:01:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40527
 21; 6633.2; 30-NOV-2009 09:04:39; Dark ; 51.5; 34; Gam2Vel ; 1.79; 23000;occ; 103; 0;40527
 22; 6737.1; 30-NOV-2009 09:06:23; Dark ; 56.5; 70; Zet Pup ; 2.25; 39000;occ; 113; 0;40527
 23; 6947.3; 30-NOV-2009 09:09:53; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;40527
 24; 7176.4; 30-NOV-2009 09:13:42; Dark ; 67.5; 23; 21Eps CMA ; 1.50; 26000;occ; 135; 0;40527
 25; 7570.4; 30-NOV-2009 09:20:17; Dark ; 53.5; 101; 11Alp Lep ; 2.58; 7000;occ; 107; 0;40527

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 4; 2235.6; 30-NOV-2009 09:31:58; Bright; 55.5; 13; 87Alp Tau ; 0.87; 3800;occ; 111; 0;40528
 5; 2330.3; 30-NOV-2009 09:33:32; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;40528
 6; 2472.9; 30-NOV-2009 09:35:55; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;40528
 7; 2618.7; 30-NOV-2009 09:38:21; Bright; 39.0; 149; 45Eps Per ; 2.89; 30000;occ; 78; 0;40528
 8; 2854.2; 30-NOV-2009 09:42:16; Bright; 50.0; 6; 13Alp Aur ; 0.08; 3400;occ; 100; 0;40528
 9; 2966.6; 30-NOV-2009 09:44:09; Bright; 49.5; 42; 34Bet Aur ; 1.90; 10200;occ; 99; 0;40528
 10; 3824.4; 30-NOV-2009 09:58:26; Bright; 47.5; 36; 50Alp UMa ; 1.80; 6300;occ; 95; 0;40528
 11; 3920.9; 30-NOV-2009 10:00:03; Bright; 42.5; 82; 48Bet UMa ; 2.37; 10600;occ; 85; 0;40528
 12; 4015.3; 30-NOV-2009 10:01:37; Bright; 36.5; 32; 77Eps UMa ; 1.76; 11000;occ; 73; 0;40528
 13; 4190.1; 30-NOV-2009 10:04:32; Bright; 49.5; 174; 52Psi UMa ; 3.00; 4400;occ; 99; 0;40528
 14; 4347.7; 30-NOV-2009 10:07:10; Bright; 37.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 74; 0;40528
 15; 4916.8; 30-NOV-2009 10:16:39; Bright; 57.5; 62; 94Bet Leo ; 2.14; 9700;occ; 115; 0;40528
 16; 5115.3; 30-NOV-2009 10:19:57; Bright; 42.5; 121; 29Gam Vir ; 2.74; 7200;occ; 85; 0;40528
 17; 5453.4; 30-NOV-2009 10:25:35; Dark ; 46.0; 100; 4Gam Crv ; 2.58; 13100;occ; 92; 0;40528
 18; 5548.9; 30-NOV-2009 10:27:11; Dark ; 49.0; 171; 2Eps Crv ; 3.00; 4250;occ; 98; 0;40528
 19; 6117.4; 30-NOV-2009 10:36:39; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;40528
 20; 6435.9; 30-NOV-2009 10:41:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40528
 21; 6634.1; 30-NOV-2009 10:45:16; Dark ; 49.0; 34; Gam2Vel ; 1.79; 23000;occ; 98; 0;40528
 22; 6738.1; 30-NOV-2009 10:47:00; Dark ; 55.5; 70; Zet Pup ; 2.25; 39000;occ; 111; 0;40528
 23; 6947.9; 30-NOV-2009 10:50:30; Dark ; 67.0; 117; Pi Pup ; 2.71; 3800;occ; 134; 0;40528
 24; 7177.3; 30-NOV-2009 10:54:19; Dark ; 68.5; 23; 21Eps CMA ; 1.50; 26000;occ; 137; 0;40528
 25; 7570.4; 30-NOV-2009 11:00:52; Dark ; 54.0; 101; 11Alp Lep ; 2.58; 7000;occ; 108; 0;40528

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 3; 1936.7; 30-NOV-2009 11:07:35; Dark ; 38.0; 30; 46Eps Ori ; 1.69; 30000;occ; 76; 0;40529
 4; 2101.0; 30-NOV-2009 11:10:19; Dark ; 64.0; 27; 24Gam Ori ; 1.64; 26000;occ; 128; 0;40529
 5; 2235.1; 30-NOV-2009 11:12:33; Bright; 54.5; 13; 87Alp Tau ; 0.87; 3800;occ; 109; 0;40529
 6; 2330.0; 30-NOV-2009 11:14:08; Bright; 39.5; 146; 25Eta Tau ; 2.87; 15200;occ; 79; 0;40529
 7; 2472.6; 30-NOV-2009 11:16:30; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;40529
 8; 2618.7; 30-NOV-2009 11:18:57; Bright; 37.5; 149; 45Eps Per ; 2.89; 30000;occ; 75; 0;40529
 9; 2853.5; 30-NOV-2009 11:22:51; Bright; 47.5; 6; 13Alp Aur ; 0.08; 3400;occ; 95; 0;40529
 10; 2965.7; 30-NOV-2009 11:24:44; Bright; 52.5; 42; 34Bet Aur ; 1.90; 10200;occ; 105; 0;40529
 11; 3824.1; 30-NOV-2009 11:39:02; Bright; 46.5; 36; 50Alp UMa ; 1.80; 6300;occ; 93; 0;40529
 12; 3920.6; 30-NOV-2009 11:40:38; Bright; 41.5; 82; 48Bet UMa ; 2.37; 10600;occ; 83; 0;40529
 13; 4015.3; 30-NOV-2009 11:42:13; Bright; 36.5; 32; 77Eps UMa ; 1.76; 11000;occ; 73; 0;40529
 14; 4189.5; 30-NOV-2009 11:45:07; Bright; 52.5; 174; 52Psi UMa ; 3.00; 4400;occ; 105; 0;40529
 15; 4347.5; 30-NOV-2009 11:47:45; Bright; 45.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 90; 0;40529
 16; 4917.3; 30-NOV-2009 11:57:15; Bright; 79.0; 62; 94Bet Leo ; 2.14; 9700;occ; 158; 0;40529
 17; 5115.9; 30-NOV-2009 12:00:34; Bright; 43.5; 121; 29Gam Vir ; 2.74; 7200;occ; 87; 0;40529
 18; 5454.0; 30-NOV-2009 12:06:12; Dark ; 46.5; 100; 4Gam Crv ; 2.58; 13100;occ; 93; 0;40529
 19; 5549.6; 30-NOV-2009 12:07:47; Dark ; 51.0; 171; 2Eps Crv ; 3.00; 4250;occ; 102; 0;40529
 20; 6118.0; 30-NOV-2009 12:17:16; Dark ; 42.5; 113; Mu Vel ; 2.69; 5000;occ; 85; 0;40529
 21; 6436.7; 30-NOV-2009 12:22:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40529
 22; 6634.7; 30-NOV-2009 12:25:53; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;40529
 23; 6739.0; 30-NOV-2009 12:27:37; Dark ; 56.0; 70; Zet Pup ; 2.25; 39000;occ; 112; 0;40529
 24; 6948.8; 30-NOV-2009 12:31:07; Dark ; 64.5; 117; Pi Pup ; 2.71; 3800;occ; 129; 0;40529
 25; 7178.0; 30-NOV-2009 12:34:56; Dark ; 67.0; 23; 21Eps CMA ; 1.50; 26000;occ; 134; 0;40529
 26; 7570.7; 30-NOV-2009 12:41:28; Dark ; 54.5; 101; 11Alp Lep ; 2.58; 7000;occ; 109; 0;40529

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 2; 1753.0; 30-NOV-2009 12:45:07; Dark ; 58.5; 7; 19Bet Ori ; 0.10; 14000;occ; 117; 0;40530
 3; 1936.4; 30-NOV-2009 12:48:10; Dark ; 44.0; 30; 46Eps Ori ; 1.69; 30000;occ; 88; 0;40530
 4; 2100.6; 30-NOV-2009 12:50:54; Dark ; 64.0; 27; 24Gam Ori ; 1.64; 26000;occ; 128; 0;40530

5; 2234.8; 30-NOV-2009 12:53:08; Bright; 60.5; 13; 87Alp Tau ; 0.87; 3800;occ; 121; 0;40530
6; 2329.9; 30-NOV-2009 12:54:44; Bright; 38.5; 146; 25Eta Tau ; 2.87; 15200;occ; 77; 0;40530
7; 2472.5; 30-NOV-2009 12:57:06; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;40530
8; 2618.5; 30-NOV-2009 12:59:32; Bright; 37.0; 149; 45Eps Per ; 2.89; 30000;occ; 74; 0;40530
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11; 3823.6; 30-NOV-2009 13:19:37; Bright; 44.5; 36; 50Alp UMa ; 1.80; 6300;occ; 89; 0;40530
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13; 4015.4; 30-NOV-2009 13:22:49; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000;occ; 77; 0;40530
14; 4189.4; 30-NOV-2009 13:25:43; Bright; 65.0; 174; 52Psi UMa ; 3.00; 4400;occ; 130; 0;40530
15; 4347.9; 30-NOV-2009 13:28:22; Bright; 40.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 80; 0;40530
16; 4918.0; 30-NOV-2009 13:37:52; Bright; 59.0; 62; 94Bet Leo ; 2.14; 9700;occ; 118; 0;40530
17; 5116.6; 30-NOV-2009 13:41:10; Bright; 42.5; 121; 29Gam Vir ; 2.74; 7200;occ; 85; 0;40530
18; 5454.9; 30-NOV-2009 13:46:49; Dark ; 47.0; 100; 4Gam Crv ; 2.58; 13100;occ; 94; 0;40530
19; 5550.3; 30-NOV-2009 13:48:24; Dark ; 50.5; 171; 2Eps Crv ; 3.00; 4250;occ; 101; 0;40530
20; 6118.8; 30-NOV-2009 13:57:53; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;40530
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22; 6635.8; 30-NOV-2009 14:06:29; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;40530
23; 6740.1; 30-NOV-2009 14:08:14; Dark ; 58.5; 70; Zet Pup ; 2.25; 39000;occ; 117; 0;40530
24; 6949.9; 30-NOV-2009 14:11:44; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;40530
25; 7178.8; 30-NOV-2009 14:15:32; Dark ; 68.5; 23; 21Eps CMa ; 1.50; 26000;occ; 137; 0;40530
26; 7570.8; 30-NOV-2009 14:22:04; Dark ; 6.5; 101; 11Alp Lep ; 2.58; 7000;occ; 13; 0;40530

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3; 1935.8; 30-NOV-2009 14:28:45; Dark ; 44.0; 30; 46Eps Ori ; 1.69; 30000;occ; 88; 0;40531
4; 2100.0; 30-NOV-2009 14:31:30; Dark ; 63.0; 27; 24Gam Ori ; 1.64; 26000;occ; 126; 0;40531
5; 2234.4; 30-NOV-2009 14:33:44; Bright; 51.5; 13; 87Alp Tau ; 0.87; 3800;occ; 103; 0;40531
6; 2329.7; 30-NOV-2009 14:35:19; Bright; 38.0; 146; 25Eta Tau ; 2.87; 15200;occ; 76; 0;40531
7; 2472.3; 30-NOV-2009 14:37:42; Bright; 38.0; 150; 44Zet Per ; 2.89; 28000;occ; 76; 0;40531
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9; 2852.3; 30-NOV-2009 14:44:02; Bright; 49.0; 6; 13Alp Aur ; 0.08; 3400;occ; 98; 0;40531
10; 2963.8; 30-NOV-2009 14:45:53; Bright; 50.5; 42; 34Bet Aur ; 1.90; 10200;occ; 101; 0;40531
11; 3823.3; 30-NOV-2009 15:00:13; Bright; 49.5; 36; 50Alp UMa ; 1.80; 6300;occ; 99; 0;40531
12; 3920.2; 30-NOV-2009 15:01:50; Bright; 50.0; 82; 48Bet UMa ; 2.37; 10600;occ; 100; 0;40531
13; 4015.2; 30-NOV-2009 15:03:25; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;40531
14; 4189.2; 30-NOV-2009 15:06:19; Bright; 53.5; 174; 52Psi UMa ; 3.00; 4400;occ; 107; 0;40531
15; 4347.9; 30-NOV-2009 15:08:57; Bright; 37.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 74; 0;40531
16; 4918.8; 30-NOV-2009 15:18:28; Bright; 59.0; 62; 94Bet Leo ; 2.14; 9700;occ; 118; 0;40531
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18; 5455.9; 30-NOV-2009 15:27:25; Dark ; 47.5; 100; 4Gam Crv ; 2.58; 13100;occ; 95; 0;40531
19; 5551.1; 30-NOV-2009 15:29:01; Dark ; 49.5; 171; 2Eps Crv ; 3.00; 4250;occ; 99; 0;40531
20; 6119.7; 30-NOV-2009 15:38:29; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;40531
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22; 6636.8; 30-NOV-2009 15:47:06; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;40531
23; 6741.3; 30-NOV-2009 15:48:51; Dark ; 53.0; 70; Zet Pup ; 2.25; 39000;occ; 106; 0;40531
24; 6950.6; 30-NOV-2009 15:52:20; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;40531
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3; 1935.5; 30-NOV-2009 16:09:21; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;40532
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5; 2234.1; 30-NOV-2009 16:14:20; Bright; 52.5; 13; 87Alp Tau ; 0.87; 3800;occ; 105; 0;40532
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7; 2471.8; 30-NOV-2009 16:18:17; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;40532
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9; 2851.6; 30-NOV-2009 16:24:37; Bright; 47.0; 6; 13Alp Aur ; 0.08; 3400;occ; 94; 0;40532
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11; 3823.3; 30-NOV-2009 16:40:49; Bright; 46.0; 36; 50Alp UMa ; 1.80; 6300;occ; 92; 0;40532
12; 3919.6; 30-NOV-2009 16:42:25; Bright; 46.5; 82; 48Bet UMa ; 2.37; 10600;occ; 93; 0;40532
13; 4015.2; 30-NOV-2009 16:44:01; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;40532
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