

GOMOS Daily Report 02-DEC-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	04DEC2009 04:36:44
Data source version	GOMOS/5.00L04
Start time of products	02DEC2009 00:00:36
Stop time of products	02DEC2009 23:45:42
Store outputs in DB	Yes
Nb of level 1b prods	153
Nb of prods with errors	0

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

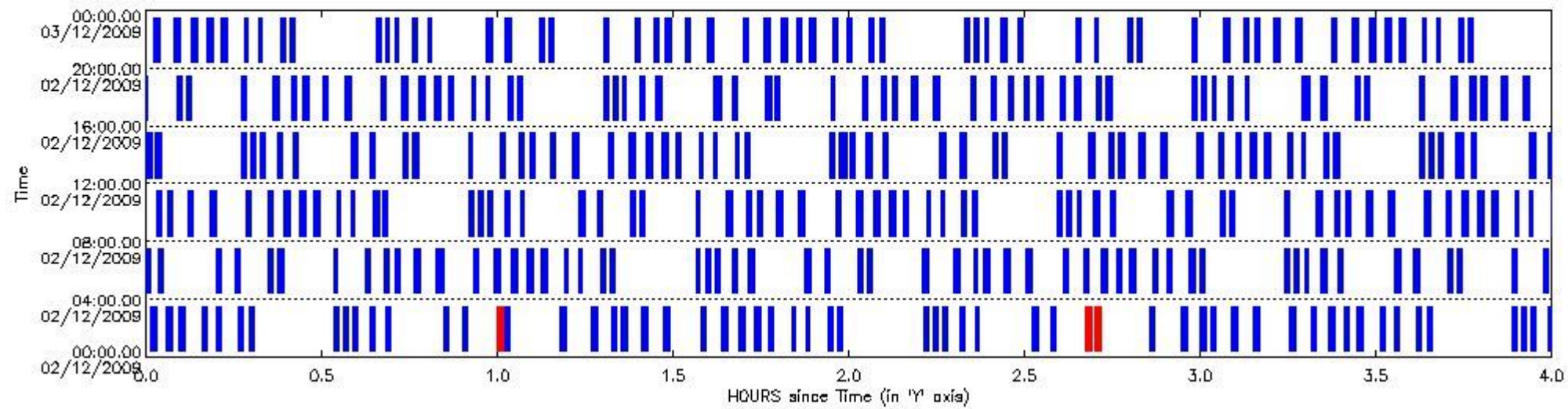
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
02-DEC-2009 00:59:47	4GamCrv	100	40551
02-DEC-2009 02:40:24	4GamCrv	100	40552
02-DEC-2009 02:42:00	2EpsCrv	171	40552

2.4 Summary of processed GOM_TRA_1P products

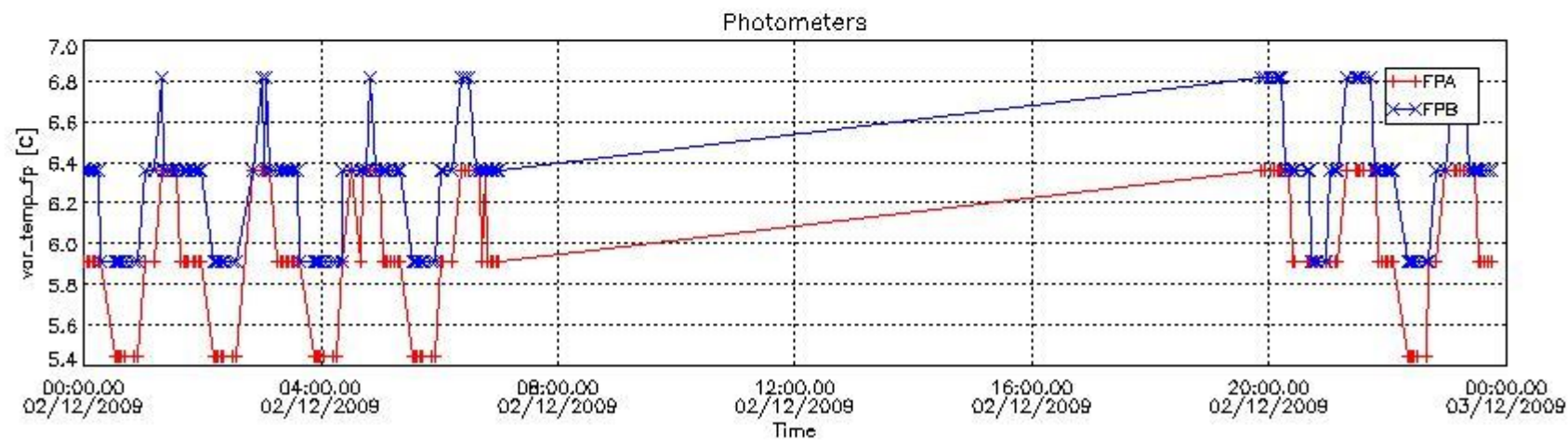
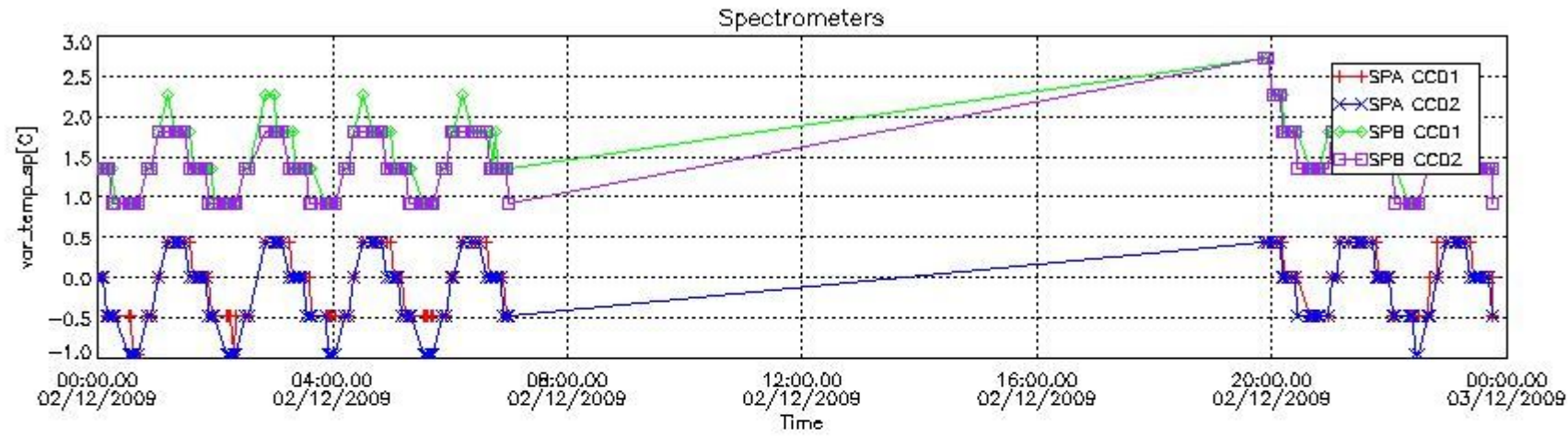
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20091202_000036_000000632084_00417_40551_5835.N1	02-DEC-2009 00:00:36	Twilight_stray	62.500	30	46Eps Ori	1.6940	30000.	125	40551	No
2	GOM_TRA_1PNPDE20091202_000037_000000622084_00417_40551_5836.N1	02-DEC-2009 00:03:17	Twilight_stray	61.500	27	24Gam Ori	1.6360	26000.	123	40551	No
3	GOM_TRA_1PNPDE20091202_000038_000000602084_00417_40551_5837.N1	02-DEC-2009 00:05:35	Bright	59.500	13	87Alp Tau	0.86700	3800.0	119	40551	No
4	GOM_TRA_1PNPDE20091202_000039_000000392084_00417_40551_5838.N1	02-DEC-2009 00:09:36	Bright	39.000	150	44Zet Per	2.8900	28000.	78	40551	No
5	GOM_TRA_1PNPDE20091202_001201_000000372084_00417_40551_5839.N1	02-DEC-2009 00:12:01	Bright	36.500	149	45Eps Per	2.8880	30000.	73	40551	No
6	GOM_TRA_1PNPDE20091202_001547_000000492084_00417_40551_5840.N1	02-DEC-2009 00:15:47	Bright	48.500	6	13Alp Aur	0.080000	3400.0	97	40551	No
7	GOM_TRA_1PNPDE20091202_001733_000000492084_00417_40551_5841.N1	02-DEC-2009 00:17:33	Bright	49.000	42	34Bet Aur	1.9000	10200.	98	40551	No
8	GOM_TRA_1PNPDE20091202_003204_000000462084_00417_40551_5842.N1	02-DEC-2009 00:32:04	Bright	45.500	36	50Alp UMa	1.8000	6300.0	91	40551	No

9	GOM_TRA_1PNPDE20091202_003340_000000462084_00417_40551_5843.N1	02-DEC-2009 00:33:40	Bright	46.000	82	48Bet UMa	2.3650	10600.	92	40551	No
10	GOM_TRA_1PNPDE20091202_003521_000000412084_00417_40551_5844.N1	02-DEC-2009 00:35:21	Bright	40.500	32	77Eps UMa	1.7630	11000.	81	40551	No
11	GOM_TRA_1PNPDE20091202_003812_000000512084_00417_40551_5845.N1	02-DEC-2009 00:38:12	Bright	50.500	174	52Psi UMa	3.0040	4400.0	101	40551	No
12	GOM_TRA_1PNPDE20091202_004057_000000392084_00417_40551_5846.N1	02-DEC-2009 00:40:57	Bright	38.500	152	12Alp2CVn	2.8900	11000.	77	40551	No
13	GOM_TRA_1PNPDE20091202_005041_000000582084_00417_40551_5847.N1	02-DEC-2009 00:50:41	Bright	58.000	62	94Bet Leo	2.1360	9700.0	116	40551	No
14	GOM_TRA_1PNPDE20091202_005357_000000582084_00417_40551_5848.N1	02-DEC-2009 00:53:57	Bright	58.000	121	29Gam Vir	2.7400	7200.0	116	40551	No
15	GOM_TRA_1PNPDE20091202_010115_000000522084_00417_40551_5842.N1	02-DEC-2009 01:01:15	Dark	51.500	171	2Eps Crv	3.0010	4250.0	103	40551	No
16	GOM_TRA_1PNPDE20091202_011043_000000562084_00418_40552_5843.N1	02-DEC-2009 01:10:43	Dark	55.500	113	Mu Vel	2.6920	5000.0	111	40552	No
17	GOM_TRA_1PNPDE20091202_011922_000000542084_00418_40552_5844.N1	02-DEC-2009 01:19:22	Dark	53.500	34	Gam2Vel	1.7930	23000.	107	40552	No
18	GOM_TRA_1PNPDE20091202_012110_000000602084_00418_40552_5845.N1	02-DEC-2009 01:21:10	Dark	59.500	70	Zet Pup	2.2460	39000.	119	40552	No
19	GOM_TRA_1PNPDE20091202_012435_000000592084_00418_40552_5846.N1	02-DEC-2009 01:24:35	Dark	59.000	117	Pi Pup	2.7060	3800.0	118	40552	No
20	GOM_TRA_1PNPDE20091202_012821_000000652084_00418_40552_5847.N1	02-DEC-2009 01:28:21	Dark	65.000	23	21Eps CMa	1.5020	26000.	130	40552	No
21	GOM_TRA_1PNPDE20091202_013442_000000552084_00418_40552_5848.N1	02-DEC-2009 01:34:42	Straylight	55.000	101	11Alp Lep	2.5820	7000.0	110	40552	No
22	GOM_TRA_1PNPDE20091202_013815_000000592084_00418_40552_5849.N1	02-DEC-2009 01:38:15	Straylight	59.000	7	19Bet Ori	0.10000	14000.	118	40552	No
23	GOM_TRA_1PNPDE20091202_014112_000000632084_00418_40552_5850.N1	02-DEC-2009 01:41:12	Tw_i_and_stray	63.000	30	46Eps Ori	1.6940	30000.	126	40552	No
24	GOM_TRA_1PNPDE20091202_014353_000000622084_00418_40552_5851.N1	02-DEC-2009 01:43:53	Tw_i_and_stray	61.500	27	24Gam Ori	1.6360	26000.	123	40552	No
25	GOM_TRA_1PNPDE20091202_014611_000000582084_00418_40552_5852.N1	02-DEC-2009 01:46:11	Bright	57.500	13	87Alp Tau	0.86700	3800.0	115	40552	No
26	GOM_TRA_1PNPDE20091202_015011_000000392084_00418_40552_5853.N1	02-DEC-2009 01:50:11	Bright	39.000	150	44Zet Per	2.8900	28000.	78	40552	No
27	GOM_TRA_1PNPDE20091202_015236_000000372084_00418_40552_5854.N1	02-DEC-2009 01:52:36	Bright	37.000	149	45Eps Per	2.8880	30000.	74	40552	No
28	GOM_TRA_1PNPDE20091202_015622_000000482084_00418_40552_5855.N1	02-DEC-2009 01:56:22	Bright	48.000	6	13Alp Aur	0.080000	3400.0	96	40552	No
29	GOM_TRA_1PNPDE20091202_015807_000000512084_00418_40552_5856.N1	02-DEC-2009 01:58:07	Bright	50.500	42	34Bet Aur	1.9000	10200.	101	40552	No
30	GOM_TRA_1PNPDE20091202_021240_000000502084_00418_40552_5857.N1	02-DEC-2009 02:12:40	Bright	49.500	36	50Alp UMa	1.8000	6300.0	99	40552	No
31	GOM_TRA_1PNPDE20091202_021416_000000492084_00418_40552_5858.N1	02-DEC-2009 02:14:16	Bright	49.000	82	48Bet UMa	2.3650	10600.	98	40552	No
32	GOM_TRA_1PNPDE20091202_021557_000000422084_00418_40552_5859.N1	02-DEC-2009 02:15:57	Bright	42.000	32	77Eps UMa	1.7630	11000.	84	40552	No
33	GOM_TRA_1PNPDE20091202_021848_000000552084_00418_40552_5869.N1	02-DEC-2009 02:18:48	Bright	54.500	174	52Psi UMa	3.0040	4400.0	109	40552	No
34	GOM_TRA_1PNPDE20091202_022133_000000382084_00418_40552_5870.N1	02-DEC-2009 02:21:33	Bright	37.500	152	12Alp2CVn	2.8900	11000.	75	40552	No
35	GOM_TRA_1PNPDE20091202_023117_000000602084_00418_40552_5871.N1	02-DEC-2009 02:31:17	Bright	59.500	62	94Bet Leo	2.1360	9700.0	119	40552	No
36	GOM_TRA_1PNPDE20091202_023433_000000482084_00418_40552_5872.N1	02-DEC-2009 02:34:33	Bright	48.000	121	29Gam Vir	2.7400	7200.0	96	40552	No
37	GOM_TRA_1PNPDE20091202_025120_000000422084_00419_40553_5873.N1	02-DEC-2009 02:51:20	Dark	42.000	113	Mu Vel	2.6920	5000.0	84	40553	No
38	GOM_TRA_1PNPDE20091202_025959_000000552084_00419_40553_5874.N1	02-DEC-2009 02:59:59	Dark	55.000	34	Gam2Vel	1.7930	23000.	110	40553	No
39	GOM_TRA_1PNPDE20091202_030147_000000532084_00419_40553_5875.N1	02-DEC-2009 03:01:47	Dark	53.000	70	Zet Pup	2.2460	39000.	106	40553	No
40	GOM_TRA_1PNPDE20091202_030512_000000642084_00419_40553_5876.N1	02-DEC-2009 03:05:12	Dark	64.000	117	Pi Pup	2.7060	3800.0	128	40553	No
41	GOM_TRA_1PNPDE20091202_030858_000000652084_00419_40553_5877.N1	02-DEC-2009 03:08:58	Dark	65.000	23	21Eps CMa	1.5020	26000.	130	40553	No
42	GOM_TRA_1PNPDE20091202_031518_000000562084_00419_40553_5878.N1	02-DEC-2009 03:15:18	Straylight	55.500	101	11Alp Lep	2.5820	7000.0	111	40553	No
43	GOM_TRA_1PNPDE20091202_031851_000000582084_00419_40553_5879.N1	02-DEC-2009 03:18:51	Straylight	58.000	7	19Bet Ori	0.10000	14000.	116	40553	No
44	GOM_TRA_1PNPDE20091202_032147_000000632084_00419_40553_5880.N1	02-DEC-2009 03:21:47	Tw_i_and_stray	62.500	30	46Eps Ori	1.6940	30000.	125	40553	No
45	GOM_TRA_1PNPDE20091202_032428_000000602084_00419_40553_5881.N1	02-DEC-2009 03:24:28	Tw_i_and_stray	60.000	27	24Gam Ori	1.6360	26000.	120	40553	No
46	GOM_TRA_1PNPDE20091202_032647_000000622084_00419_40553_5882.N1	02-DEC-2009 03:26:47	Bright	62.000	13	87Alp Tau	0.86700	3800.0	124	40553	No
47	GOM_TRA_1PNPDE20091202_033047_000000402084_00419_40553_5883.N1	02-DEC-2009 03:30:47	Bright	40.000	150	44Zet Per	2.8900	28000.	80	40553	No
48	GOM_TRA_1PNPDE20091202_033312_000000382084_00419_40553_5884.N1	02-DEC-2009 03:33:12	Bright	37.500	149	45Eps Per	2.8880	30000.	75	40553	No
49	GOM_TRA_1PNPDE20091202_033658_000000512084_00419_40553_5885.N1	02-DEC-2009 03:36:58	Bright	51.000	6	13Alp Aur	0.080000	3400.0	102	40553	No
50	GOM_TRA_1PNPDE20091202_033843_000000502084_00419_40553_5886.N1	02-DEC-2009 03:38:43	Bright	50.000	42	34Bet Aur	1.9000	10200.	100	40553	No
51	GOM_TRA_1PNPDE20091202_035315_000000512084_00419_40553_5887.N1	02-DEC-2009 03:53:15	Bright	50.500	36	50Alp UMa	1.8000	6300.0	101	40553	No
52	GOM_TRA_1PNPDE20091202_035451_000000502084_00419_40553_5888.N1	02-DEC-2009 03:54:51	Bright	50.000	82	48Bet UMa	2.3650	10600.	100	40553	No
53	GOM_TRA_1PNPDE20091202_035633_000000432084_00419_40553_5889.N1	02-DEC-2009 03:56:33	Bright	43.000	32	77Eps UMa	1.7630	11000.	86	40553	No
54	GOM_TRA_1PNPDE20091202_035923_000000782084_00419_40553_5890.N1	02-DEC-2009 03:59:23	Bright	78.000	174	52Psi UMa	3.0040	4400.0	156	40553	No
55	GOM_TRA_1PNPDE20091202_040209_000000382084_00419_40553_5891.N1	02-DEC-2009 04:02:09	Bright	37.500	152	12Alp2CVn	2.8900	11000.	75	40553	No
56	GOM_TRA_1PNPDE20091202_041154_000000572084_00419_40553_5892.N1	02-DEC-2009 04:11:54	Bright	57.000	62	94Bet Leo	2.1360	9700.0	114	40553	No
57	GOM_TRA_1PNPDE20091202_041509_000000442084_00419_40553_5893.N1	02-DEC-2009 04:15:09	Bright	44.000	121	29Gam Vir	2.7400	7200.0	88	40553	No
58	GOM_TRA_1PNPDE20091202_042053_000000492084_00419_40553_5894.N1	02-DEC-2009 04:20:53	Dark	49.000	100	4Gam Crv	2.5800	13100.	98	40553	No
59	GOM_TRA_1PNPDE20091202_042229_000000552084_00419_40553_5895.N1	02-DEC-2009 04:22:29	Dark	54.500	171	2Eps Crv	3.0010	4250.0	109	40553	No
60	GOM_TRA_1PNPDE20091202_043157_000000432084_00420_40554_5896.N1	02-DEC-2009 04:31:57	Dark	43.000	113	Mu Vel	2.6920	5000.0	86	40554	No
61	GOM_TRA_1PNPDE20091202_044036_000000482084_00420_40554_5897.N1	02-DEC-2009 04:40:36	Dark	47.500	34	Gam2Vel	1.7930	23000.	95	40554	No
62	GOM_TRA_1PNPDE20091202_044224_000000532084_00420_40554_5898.N1	02-DEC-2009 04:42:24	Dark	53.000	70	Zet Pup	2.2460	39000.	106	40554	No
63	GOM_TRA_1PNPDE20091202_044549_000000602084_00420_40554_5899.N1	02-DEC-2009 04:45:49	Dark	60.000	117	Pi Pup	2.7060	3800.0	120	40554	No
64	GOM_TRA_1PNPDE20091202_044934_000000662084_00420_40554_5900.N1	02-DEC-2009 04:49:34	Dark	65.500	23	21Eps CMa	1.5020	26000.	131	40554	No
65	GOM_TRA_1PNPDE20091202_045554_000000542084_00420_40554_5901.N1	02-DEC-2009 04:55:54	Straylight	54.000	101	11Alp Lep	2.5820	7000.0	108	40554	No
66	GOM_TRA_1PNPDE20091202_045927_000000592084_00420_40554_5902.N1	02-DEC-2009 04:59:27	Straylight	59.000	7	19Bet Ori	0.10000	14000.	118	40554	No
67	GOM_TRA_1PNPDE20091202_050223_000000612084_00420_40554_5903.N1	02-DEC-2009 05:02:23	Tw_i_and_stray	60.500	30	46Eps Ori	1.6940	30000.	121	40554	No

68	GOM_TRA_1PNPDE20091202_050504_000000602084_00420_40554_5904.N1	02-DEC-2009 05:05:04	Twilight	60.000	27	24Gam Ori	1.6360	26000.	120	40554	No
69	GOM_TRA_1PNPDE20091202_050722_000000622084_00420_40554_5905.N1	02-DEC-2009 05:07:22	Bright	62.000	13	87Alp Tau	0.86700	3800.0	124	40554	No
70	GOM_TRA_1PNPDE20091202_051123_000000392084_00420_40554_5906.N1	02-DEC-2009 05:11:23	Bright	39.000	150	44Zet Per	2.8900	28000.	78	40554	No
71	GOM_TRA_1PNPDE20091202_051348_000000382084_00420_40554_5907.N1	02-DEC-2009 05:13:48	Bright	37.500	149	45Eps Per	2.8880	30000.	75	40554	No
72	GOM_TRA_1PNPDE20091202_051733_000000502084_00420_40554_5908.N1	02-DEC-2009 05:17:33	Bright	50.000	6	13Alp Aur	0.080000	3400.0	100	40554	No
73	GOM_TRA_1PNPDE20091202_051918_000000492084_00420_40554_5909.N1	02-DEC-2009 05:19:18	Bright	49.000	42	34Bet Aur	1.9000	10200.	98	40554	No
74	GOM_TRA_1PNPDE20091202_053351_000000412084_00420_40554_5912.N1	02-DEC-2009 05:33:51	Bright	40.500	36	50Alp UMa	1.8000	6300.0	81	40554	No
75	GOM_TRA_1PNPDE20091202_053527_000000462084_00420_40554_5913.N1	02-DEC-2009 05:35:27	Bright	46.000	82	48Bet UMa	2.3650	10600.	92	40554	No
76	GOM_TRA_1PNPDE20091202_053709_000000442084_00420_40554_5914.N1	02-DEC-2009 05:37:09	Bright	43.500	32	77Eps UMa	1.7630	11000.	87	40554	No
77	GOM_TRA_1PNPDE20091202_053959_000000542084_00420_40554_5915.N1	02-DEC-2009 05:39:59	Bright	54.000	174	52Psi UMa	3.0040	4400.0	108	40554	No
78	GOM_TRA_1PNPDE20091202_054245_000000592084_00420_40554_5916.N1	02-DEC-2009 05:42:45	Bright	59.000	152	12Alp2CVn	2.8900	11000.	118	40554	No
79	GOM_TRA_1PNPDE20091202_055231_000000662084_00420_40554_5917.N1	02-DEC-2009 05:52:31	Bright	65.500	62	94Bet Leo	2.1360	9700.0	131	40554	No
80	GOM_TRA_1PNPDE20091202_055546_000000582084_00420_40554_5918.N1	02-DEC-2009 05:55:46	Bright	57.500	121	29Gam Vir	2.7400	7200.0	115	40554	No
81	GOM_TRA_1PNPDE20091202_060130_000000502084_00420_40554_5919.N1	02-DEC-2009 06:01:30	Dark	49.500	100	4Gam Crv	2.5800	13100.	99	40554	No
82	GOM_TRA_1PNPDE20091202_060306_000000502084_00420_40554_5920.N1	02-DEC-2009 06:03:06	Dark	50.000	171	2Eps Crv	3.0010	4250.0	100	40554	No
83	GOM_TRA_1PNPDE20091202_061234_000000552084_00421_40555_5921.N1	02-DEC-2009 06:12:34	Dark	54.500	113	Mu Vel	2.6920	5000.0	109	40555	No
84	GOM_TRA_1PNPDE20091202_062113_000000472084_00421_40555_5922.N1	02-DEC-2009 06:21:13	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	40555	No
85	GOM_TRA_1PNPDE20091202_062301_000000552084_00421_40555_5923.N1	02-DEC-2009 06:23:01	Dark	54.500	70	Zet Pup	2.2460	39000.	109	40555	No
86	GOM_TRA_1PNPDE20091202_062625_000000622084_00421_40555_5924.N1	02-DEC-2009 06:26:25	Dark	62.000	117	Pi Pup	2.7060	3800.0	124	40555	No
87	GOM_TRA_1PNPDE20091202_063011_000000682084_00421_40555_5925.N1	02-DEC-2009 06:30:11	Dark	68.000	23	21Eps CMa	1.5020	26000.	136	40555	No
88	GOM_TRA_1PNPDE20091202_063630_000000532084_00421_40555_5926.N1	02-DEC-2009 06:36:30	Straylight	53.000	101	11Alp Lep	2.5820	7000.0	106	40555	No
89	GOM_TRA_1PNPDE20091202_064003_000000582084_00421_40555_5927.N1	02-DEC-2009 06:40:03	Straylight	57.500	7	19Bet Ori	0.10000	14000.	115	40555	No
90	GOM_TRA_1PNPDE20091202_064259_000000602084_00421_40555_5928.N1	02-DEC-2009 06:42:59	Twilight	60.000	30	46Eps Ori	1.6940	30000.	120	40555	No
91	GOM_TRA_1PNPDE20091202_064539_000000592084_00421_40555_5929.N1	02-DEC-2009 06:45:39	Twilight	59.000	27	24Gam Ori	1.6360	26000.	118	40555	No
92	GOM_TRA_1PNPDE20091202_064758_000000622084_00421_40555_5930.N1	02-DEC-2009 06:47:58	Bright	62.000	13	87Alp Tau	0.86700	3800.0	124	40555	No
93	GOM_TRA_1PNPDE20091202_065159_000000392084_00421_40555_5931.N1	02-DEC-2009 06:51:59	Bright	38.500	150	44Zet Per	2.8900	28000.	77	40555	No
94	GOM_TRA_1PNPDE20091202_065424_000000392084_00421_40555_5932.N1	02-DEC-2009 06:54:24	Bright	39.000	149	45Eps Per	2.8880	30000.	78	40555	No
95	GOM_TRA_1PNPDE20091202_065808_000000652084_00421_40555_5933.N1	02-DEC-2009 06:58:08	Bright	65.000	6	13Alp Aur	0.080000	3400.0	130	40555	No
96	GOM_TRA_1PNPDE20091202_065953_000000502084_00421_40555_5934.N1	02-DEC-2009 06:59:53	Bright	50.000	42	34Bet Aur	1.9000	10200.	100	40555	No
97	GOM_TRA_1PNPDE20091202_195119_000000622084_00429_40563_5976.N1	02-DEC-2009 19:51:19	Dark	61.500	117	Pi Pup	2.7060	3800.0	123	40563	No
98	GOM_TRA_1PNPDE20091202_195504_000000652084_00429_40563_5977.N1	02-DEC-2009 19:55:04	Dark	64.500	23	21Eps CMa	1.5020	26000.	129	40563	No
99	GOM_TRA_1PNPDE20091202_200118_000000562084_00429_40563_5978.N1	02-DEC-2009 20:01:18	Straylight	56.000	101	11Alp Lep	2.5820	7000.0	112	40563	No
100	GOM_TRA_1PNPDE20091202_200450_000000572084_00429_40563_5979.N1	02-DEC-2009 20:04:50	Straylight	56.500	7	19Bet Ori	0.10000	14000.	113	40563	No
101	GOM_TRA_1PNPDE20091202_200743_000000602084_00429_40563_5980.N1	02-DEC-2009 20:07:43	Twilight	59.500	30	46Eps Ori	1.6940	30000.	119	40563	No
102	GOM_TRA_1PNPDE20091202_201023_000000602084_00429_40563_5981.N1	02-DEC-2009 20:10:23	Twilight	60.000	27	24Gam Ori	1.6360	26000.	120	40563	No
103	GOM_TRA_1PNPDE20091202_201243_000000602084_00429_40563_5982.N1	02-DEC-2009 20:12:43	Bright	60.000	13	87Alp Tau	0.86700	3800.0	120	40563	No
104	GOM_TRA_1PNPDE20091202_201644_000000392084_00429_40563_5983.N1	02-DEC-2009 20:16:44	Bright	38.500	150	44Zet Per	2.8900	28000.	77	40563	No
105	GOM_TRA_1PNPDE20091202_201909_000000372084_00429_40563_5984.N1	02-DEC-2009 20:19:09	Bright	36.500	149	45Eps Per	2.8880	30000.	73	40563	No
106	GOM_TRA_1PNPDE20091202_202251_000000512084_00429_40563_5985.N1	02-DEC-2009 20:22:51	Bright	50.500	6	13Alp Aur	0.080000	3400.0	101	40563	No
107	GOM_TRA_1PNPDE20091202_202433_000000522084_00429_40563_5986.N1	02-DEC-2009 20:24:33	Bright	51.500	42	34Bet Aur	1.9000	10200.	103	40563	No
108	GOM_TRA_1PNPDE20091202_203911_000000462084_00429_40563_5987.N1	02-DEC-2009 20:39:11	Bright	45.500	36	50Alp UMa	1.8000	6300.0	91	40563	No
109	GOM_TRA_1PNPDE20091202_204047_000000452084_00429_40563_5988.N1	02-DEC-2009 20:40:47	Bright	45.000	82	48Bet UMa	2.3650	10600.	90	40563	No
110	GOM_TRA_1PNPDE20091202_204231_000000372084_00429_40563_5989.N1	02-DEC-2009 20:42:31	Bright	37.000	32	77Eps UMa	1.7630	11000.	74	40563	No
111	GOM_TRA_1PNPDE20091202_204520_000000562084_00429_40563_5990.N1	02-DEC-2009 20:45:20	Bright	55.500	174	52Psi UMa	3.0040	4400.0	111	40563	No
112	GOM_TRA_1PNPDE20091202_204808_000000382084_00429_40563_5991.N1	02-DEC-2009 20:48:08	Bright	38.000	152	12Alp2CVn	2.8900	11000.	76	40563	No
113	GOM_TRA_1PNPDE20091202_205801_000000702084_00429_40563_5992.N1	02-DEC-2009 20:58:01	Bright	70.000	62	94Bet Leo	2.1360	9700.0	140	40563	No
114	GOM_TRA_1PNPDE20091202_210115_000000632084_00429_40563_5997.N1	02-DEC-2009 21:01:15	Bright	63.000	121	29Gam Vir	2.7400	7200.0	126	40563	No
115	GOM_TRA_1PNPDE20091202_210701_000000502084_00429_40563_5998.N1	02-DEC-2009 21:07:01	Dark	49.500	100	4Gam Crv	2.5800	13100.	99	40563	No
116	GOM_TRA_1PNPDE20091202_210837_000000512084_00429_40563_5999.N1	02-DEC-2009 21:08:37	Dark	50.500	171	2Eps Crv	3.0010	4250.0	101	40563	No
117	GOM_TRA_1PNPDE20091202_211804_000000452084_00430_40564_6000.N1	02-DEC-2009 21:18:04	Dark	45.000	113	Mu Vel	2.6920	5000.0	90	40564	No
118	GOM_TRA_1PNPDE20091202_212644_000000472084_00430_40564_6001.N1	02-DEC-2009 21:26:44	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	40564	No
119	GOM_TRA_1PNPDE20091202_212833_000000622084_00430_40564_6002.N1	02-DEC-2009 21:28:33	Dark	61.500	70	Zet Pup	2.2460	39000.	123	40564	No
120	GOM_TRA_1PNPDE20091202_213156_000000632084_00430_40564_6003.N1	02-DEC-2009 21:31:56	Dark	62.500	117	Pi Pup	2.7060	3800.0	125	40564	No
121	GOM_TRA_1PNPDE20091202_213540_000000642084_00430_40564_6004.N1	02-DEC-2009 21:35:40	Dark	64.000	23	21Eps CMa	1.5020	26000.	128	40564	No
122	GOM_TRA_1PNPDE20091202_214154_000000542084_00430_40564_6005.N1	02-DEC-2009 21:41:54	Straylight	53.500	101	11Alp Lep	2.5820	7000.0	107	40564	No
123	GOM_TRA_1PNPDE20091202_214525_000000582084_00430_40564_6006.N1	02-DEC-2009 21:45:25	Straylight	57.500	7	19Bet Ori	0.10000	14000.	115	40564	No
124	GOM_TRA_1PNPDE20091202_214819_000000622084_00430_40564_6007.N1	02-DEC-2009 21:48:19	Twilight	62.000	30	46Eps Ori	1.6940	30000.	124	40564	No
125	GOM_TRA_1PNPDE20091202_215058_000000582084_00430_40564_6008.N1	02-DEC-2009 21:50:58	Twilight	58.000	27	24Gam Ori	1.6360	26000.	116	40564	No
126	GOM_TRA_1PNPDE20091202_215318_000000552084_00430_40564_6009.N1	02-DEC-2009 21:53:18	Bright	55.000	13	87Alp Tau	0.86700	3800.0	110	40564	No

127	GOM_TRA_1PNPDE20091202_215720_000000372084_00430_40564_6010.N1	02-DEC-2009 21:57:20	Bright	37.000	150	44Zet Per	2.8900	28000.	74	40564	No
128	GOM_TRA_1PNPDE20091202_215945_000000382084_00430_40564_6011.N1	02-DEC-2009 21:59:45	Bright	37.500	149	45Eps Per	2.8880	30000.	75	40564	No
129	GOM_TRA_1PNPDE20091202_220326_000000472084_00430_40564_6012.N1	02-DEC-2009 22:03:26	Bright	47.000	6	13Alp Aur	0.080000	3400.0	94	40564	No
130	GOM_TRA_1PNPDE20091202_220508_000000512084_00430_40564_6013.N1	02-DEC-2009 22:05:08	Bright	51.000	42	34Bet Aur	1.9000	10200.	102	40564	No
131	GOM_TRA_1PNPDE20091202_221946_000000472084_00430_40564_6014.N1	02-DEC-2009 22:19:46	Bright	47.000	36	50Alp UMa	1.8000	6300.0	94	40564	No
132	GOM_TRA_1PNPDE20091202_222122_000000472084_00430_40564_6015.N1	02-DEC-2009 22:21:22	Bright	46.500	82	48Bet UMa	2.3650	10600.	93	40564	No
133	GOM_TRA_1PNPDE20091202_222307_000000422084_00430_40564_6016.N1	02-DEC-2009 22:23:07	Bright	42.000	32	77Eps UMa	1.7630	11000.	84	40564	No
134	GOM_TRA_1PNPDE20091202_222555_000000572084_00430_40564_6017.N1	02-DEC-2009 22:25:55	Bright	56.500	174	52Psi UMa	3.0040	4400.0	113	40564	No
135	GOM_TRA_1PNPDE20091202_222844_000000592084_00430_40564_6018.N1	02-DEC-2009 22:28:44	Bright	59.000	152	12Alp2CVn	2.8900	11000.	118	40564	No
136	GOM_TRA_1PNPDE20091202_223838_000000612084_00430_40564_6019.N1	02-DEC-2009 22:38:38	Bright	60.500	62	94Bet Leo	2.1360	9700.0	121	40564	No
137	GOM_TRA_1PNPDE20091202_224152_000000412084_00430_40564_6020.N1	02-DEC-2009 22:41:52	Bright	41.000	121	29Gam Vir	2.7400	7200.0	82	40564	No
138	GOM_TRA_1PNPDE20091202_224737_000000492084_00430_40564_6017.N1	02-DEC-2009 22:47:37	Dark	48.500	100	4Gam Crv	2.5800	13100.	97	40564	No
139	GOM_TRA_1PNPDE20091202_224914_000000522084_00430_40564_6018.N1	02-DEC-2009 22:49:14	Dark	52.000	171	2Eps Crv	3.0010	4250.0	104	40564	No
140	GOM_TRA_1PNPDE20091202_225841_000000462084_00431_40565_6019.N1	02-DEC-2009 22:58:41	Dark	45.500	113	Mu Vel	2.6920	5000.0	91	40565	No
141	GOM_TRA_1PNPDE20091202_230720_000000522084_00431_40565_6020.N1	02-DEC-2009 23:07:20	Dark	52.000	34	Gam2Vel	1.7930	23000.	104	40565	No
142	GOM_TRA_1PNPDE20091202_230910_000000552084_00431_40565_6021.N1	02-DEC-2009 23:09:10	Dark	55.000	70	Zet Pup	2.2460	39000.	110	40565	No
143	GOM_TRA_1PNPDE20091202_231232_000000622084_00431_40565_6022.N1	02-DEC-2009 23:12:32	Dark	62.000	117	Pi Pup	2.7060	3800.0	124	40565	No
144	GOM_TRA_1PNPDE20091202_231617_000000642084_00431_40565_6023.N1	02-DEC-2009 23:16:17	Dark	63.500	23	21Eps CMa	1.5020	26000.	127	40565	No
145	GOM_TRA_1PNPDE20091202_232230_000000512084_00431_40565_6024.N1	02-DEC-2009 23:22:30	Straylight	51.000	101	11Alp Lep	2.5820	7000.0	102	40565	No
146	GOM_TRA_1PNPDE20091202_232601_000000582084_00431_40565_6025.N1	02-DEC-2009 23:26:01	Straylight	57.500	7	19Bet Ori	0.10000	14000.	115	40565	No
147	GOM_TRA_1PNPDE20091202_232854_000000612084_00431_40565_6026.N1	02-DEC-2009 23:28:54	Twilight_stray	61.000	30	46Eps Ori	1.6940	30000.	122	40565	No
148	GOM_TRA_1PNPDE20091202_233133_000000602084_00431_40565_6027.N1	02-DEC-2009 23:31:33	Twilight_stray	59.500	27	24Gam Ori	1.6360	26000.	119	40565	No
149	GOM_TRA_1PNPDE20091202_233354_000000612084_00431_40565_6028.N1	02-DEC-2009 23:33:54	Bright	61.000	13	87Alp Tau	0.86700	3800.0	122	40565	No
150	GOM_TRA_1PNPDE20091202_233755_000000392084_00431_40565_6029.N1	02-DEC-2009 23:37:55	Bright	39.000	150	44Zet Per	2.8900	28000.	78	40565	No
151	GOM_TRA_1PNPDE20091202_234020_000000372084_00431_40565_6030.N1	02-DEC-2009 23:40:20	Bright	36.500	149	45Eps Per	2.8880	30000.	73	40565	No
152	GOM_TRA_1PNPDE20091202_234401_000000572084_00431_40565_6031.N1	02-DEC-2009 23:44:01	Bright	56.500	6	13Alp Aur	0.080000	3400.0	113	40565	No
153	GOM_TRA_1PNPDE20091202_234542_000000502084_00431_40565_6032.N1	02-DEC-2009 23:45:42	Bright	50.000	42	34Bet Aur	1.9000	10200.	100	40565	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).

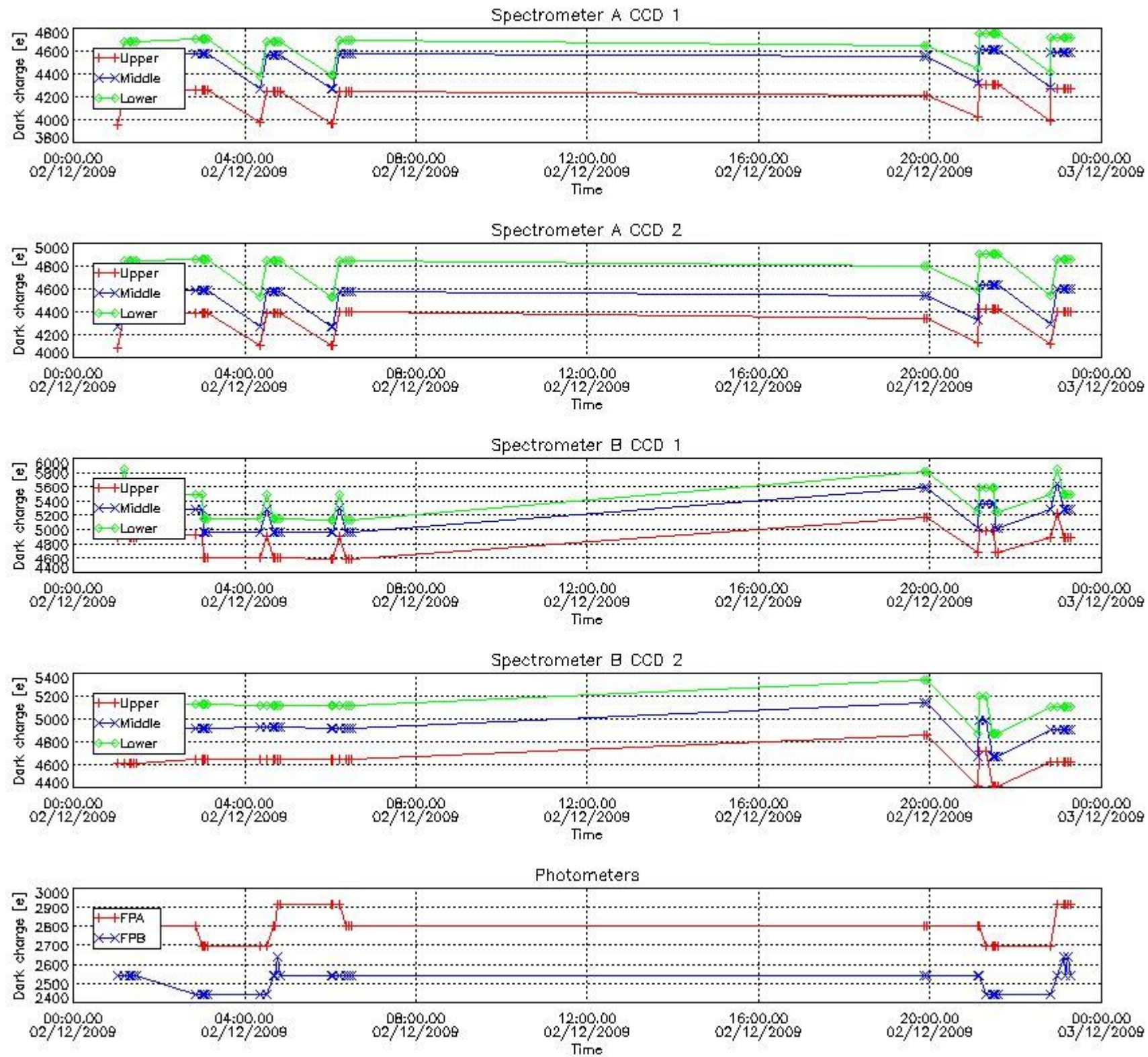
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

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

Product name	DC information
GOM_TRA_1PNPDE20091202_195119_000000622084_00429_40563_5976.N1	DC map used
GOM_TRA_1PNPDE20091202_195504_000000652084_00429_40563_5977.N1	DC map used
GOM_TRA_1PNPDE20091202_200118_000000562084_00429_40563_5978.N1	DC map used
GOM_TRA_1PNPDE20091202_200450_000000572084_00429_40563_5979.N1	DC map used
GOM_TRA_1PNPDE20091202_200743_000000602084_00429_40563_5980.N1	DC map used
GOM_TRA_1PNPDE20091202_201023_000000602084_00429_40563_5981.N1	DC map used
GOM_TRA_1PNPDE20091202_201243_000000602084_00429_40563_5982.N1	DC map used
GOM_TRA_1PNPDE20091202_201644_000000392084_00429_40563_5983.N1	DC map used
GOM_TRA_1PNPDE20091202_201909_000000372084_00429_40563_5984.N1	DC map used
GOM_TRA_1PNPDE20091202_202251_000000512084_00429_40563_5985.N1	DC map used
GOM_TRA_1PNPDE20091202_202433_000000522084_00429_40563_5986.N1	DC map used
GOM_TRA_1PNPDE20091202_203911_000000462084_00429_40563_5987.N1	DC map used
GOM_TRA_1PNPDE20091202_204047_000000452084_00429_40563_5988.N1	DC map used
GOM_TRA_1PNPDE20091202_204231_000000372084_00429_40563_5989.N1	DC map used

GOM_TRA_1PNPDE20091202_204520_000000562084_00429_40563_5990.N1	DC map used
GOM_TRA_1PNPDE20091202_204808_000000382084_00429_40563_5991.N1	DC map used
GOM_TRA_1PNPDE20091202_205801_000000702084_00429_40563_5992.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

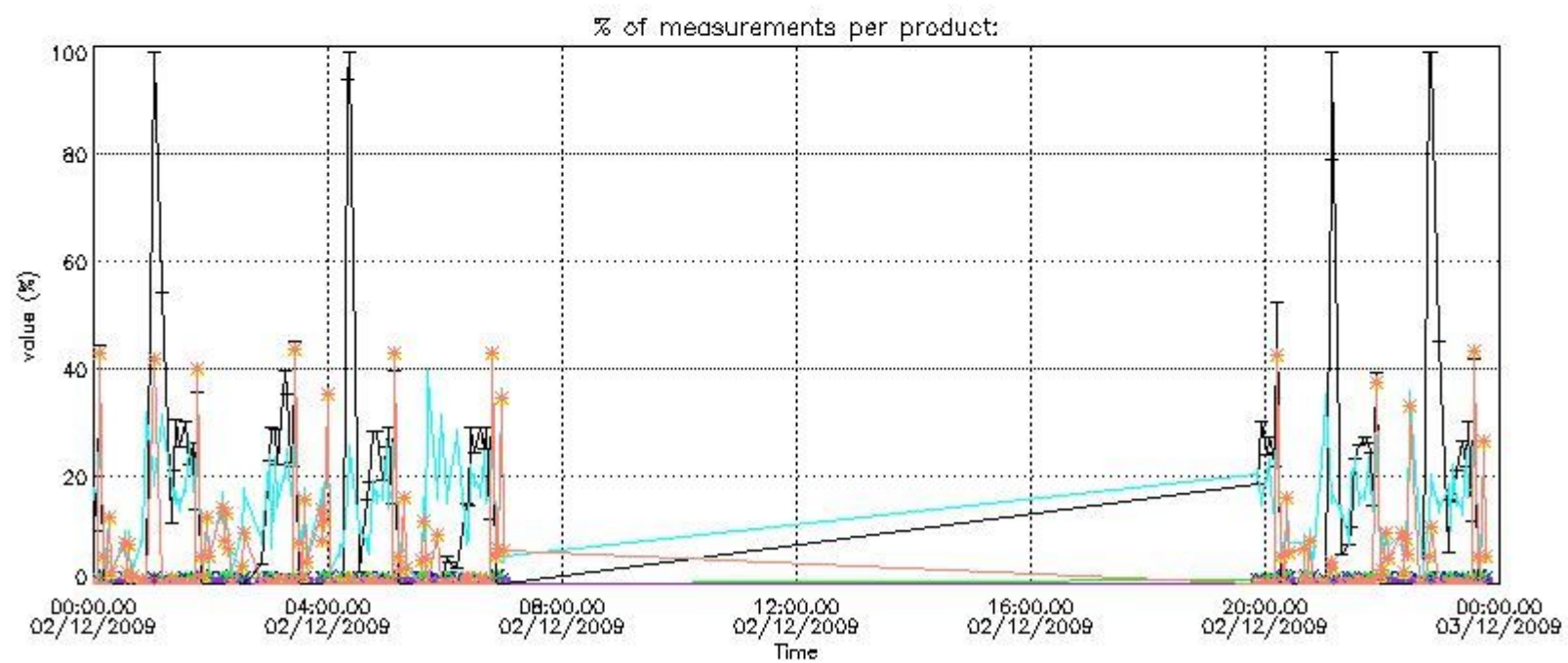
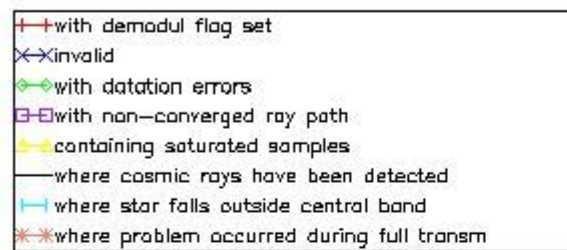
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors

(error flag in the MPH set to "0") are used.

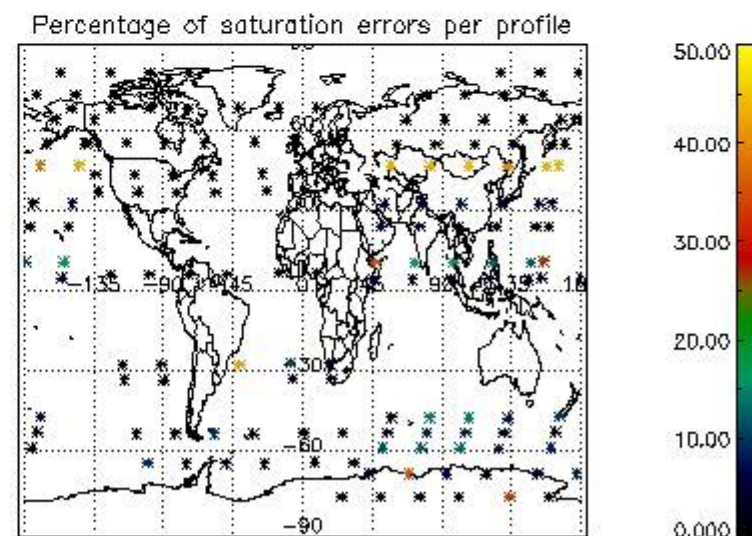
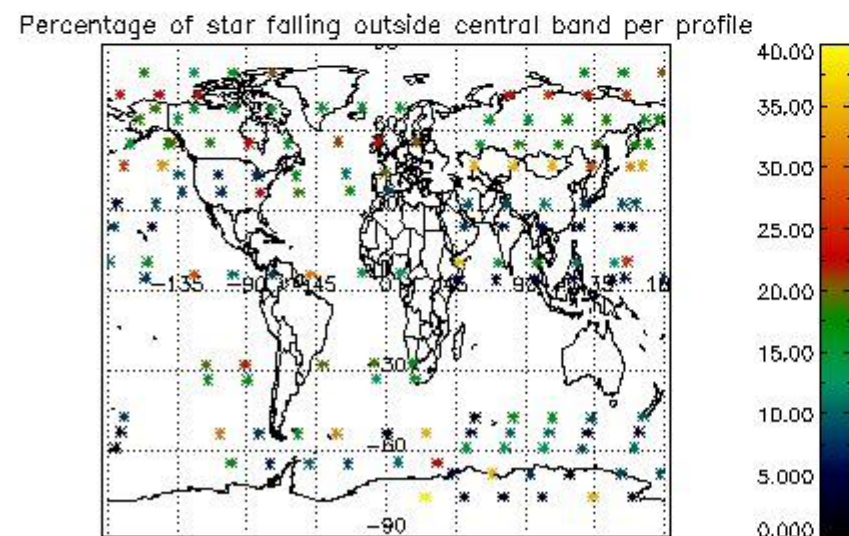
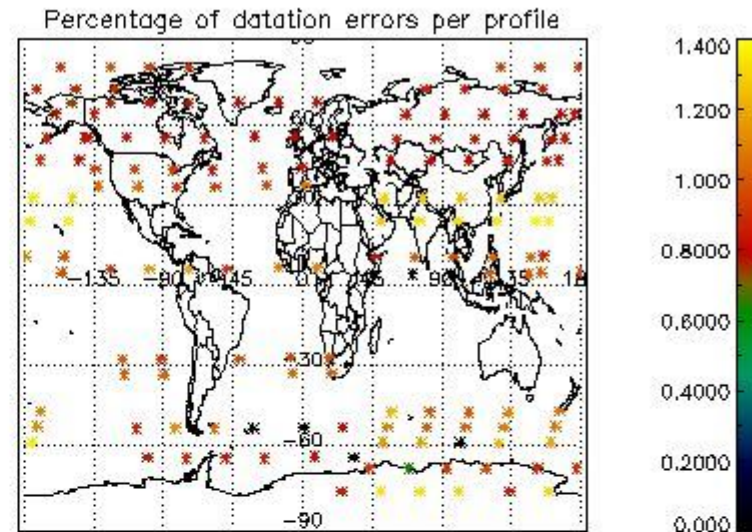
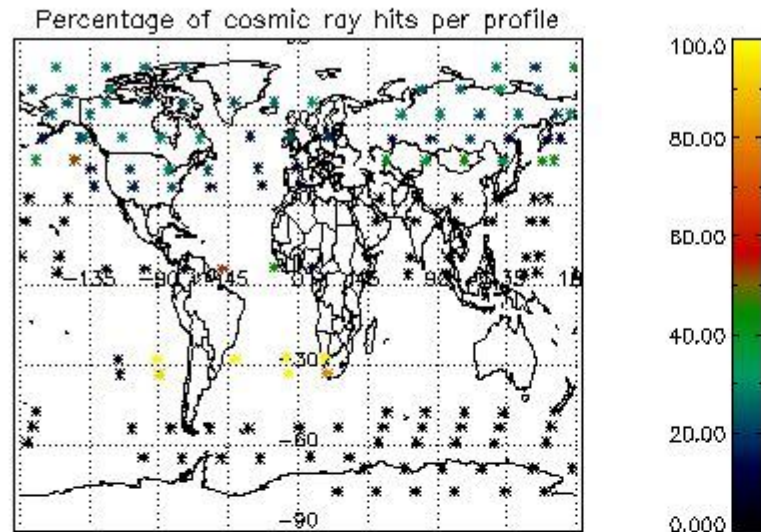
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	42.4837 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



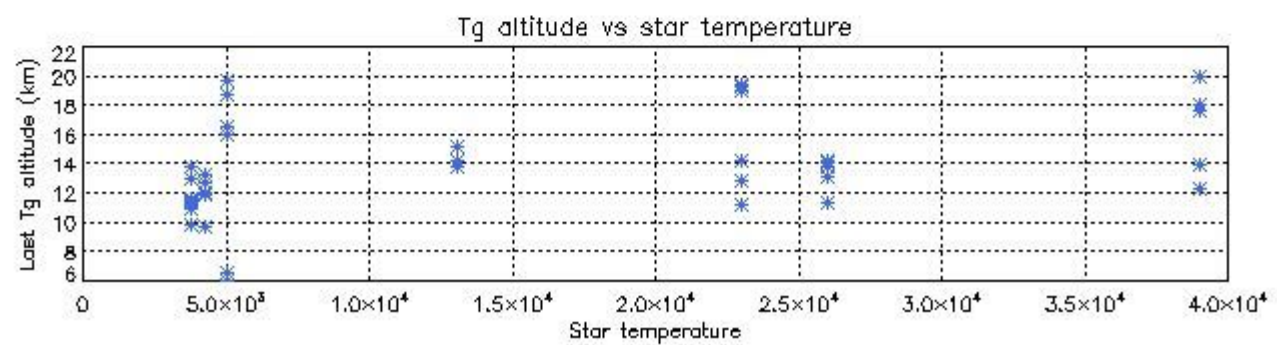
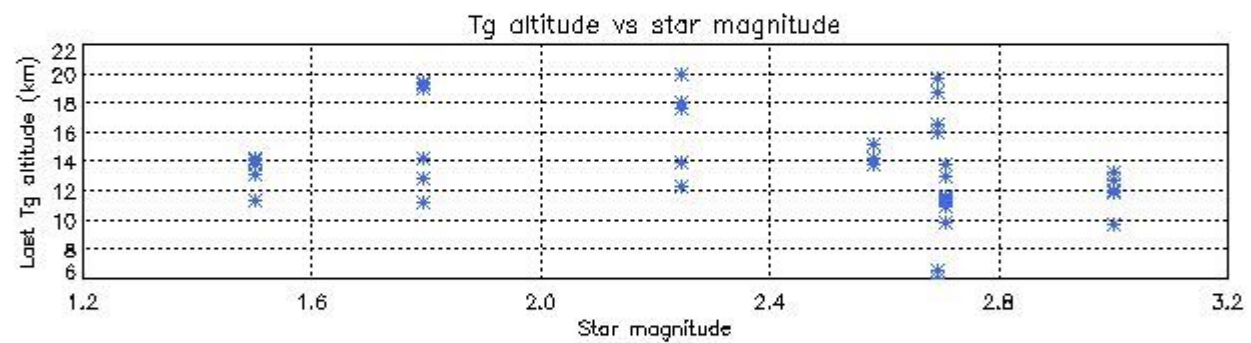
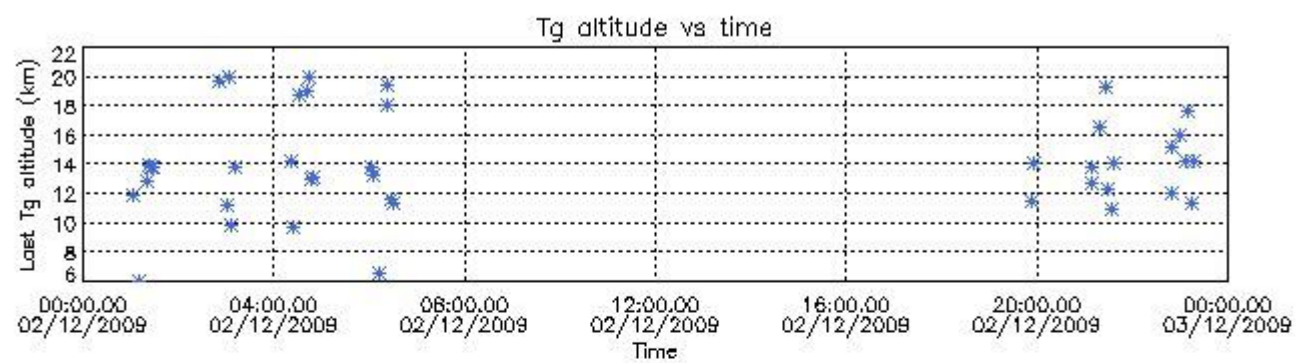
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.000	16.981	NaN
St. deviation:	3.4101	6.7554	NaN
Maximum:	20.012	26.418	NaN
Minimum:	6.0292	3.4009	NaN
Number of data:	41.000	82.000	NaN

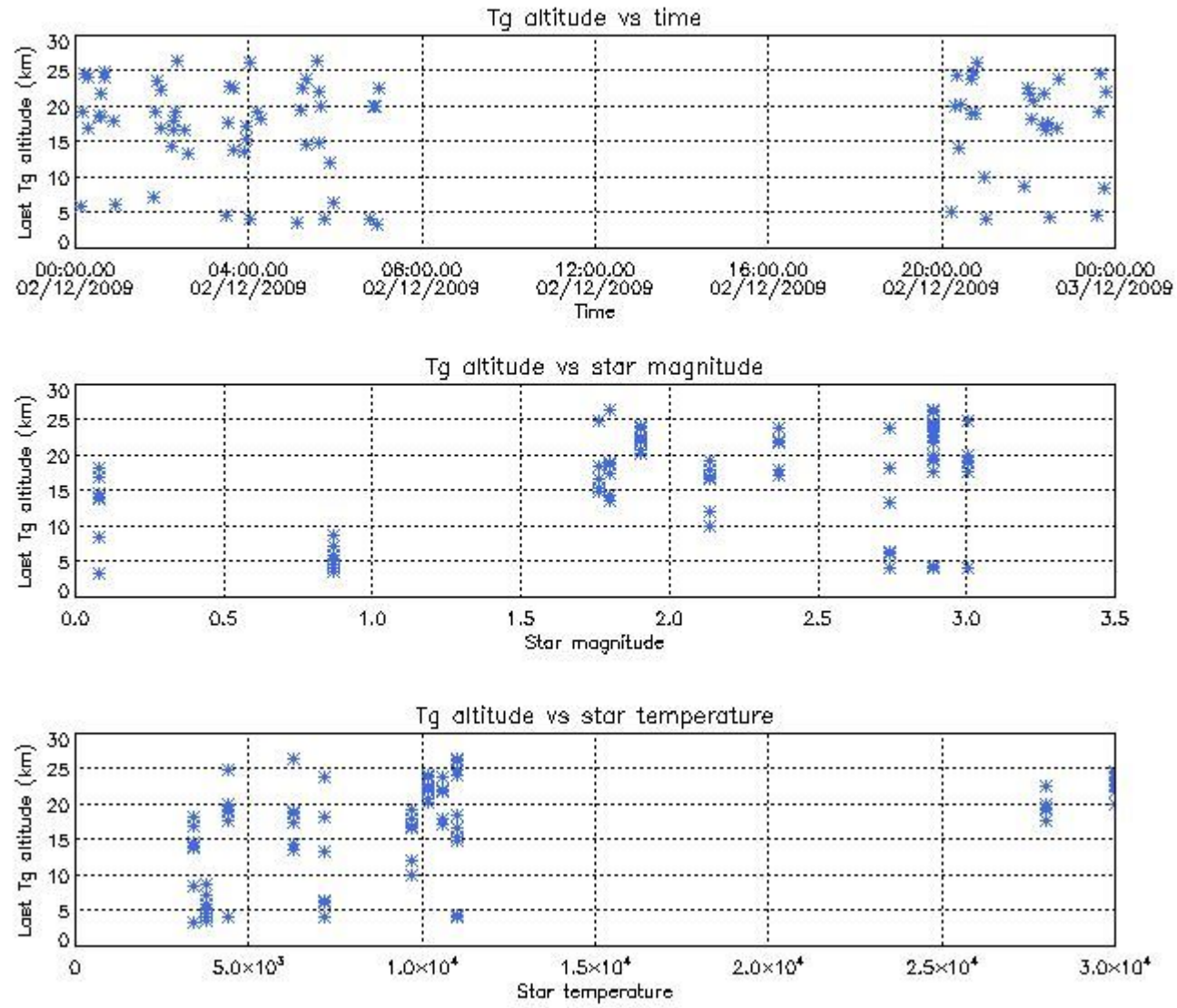
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

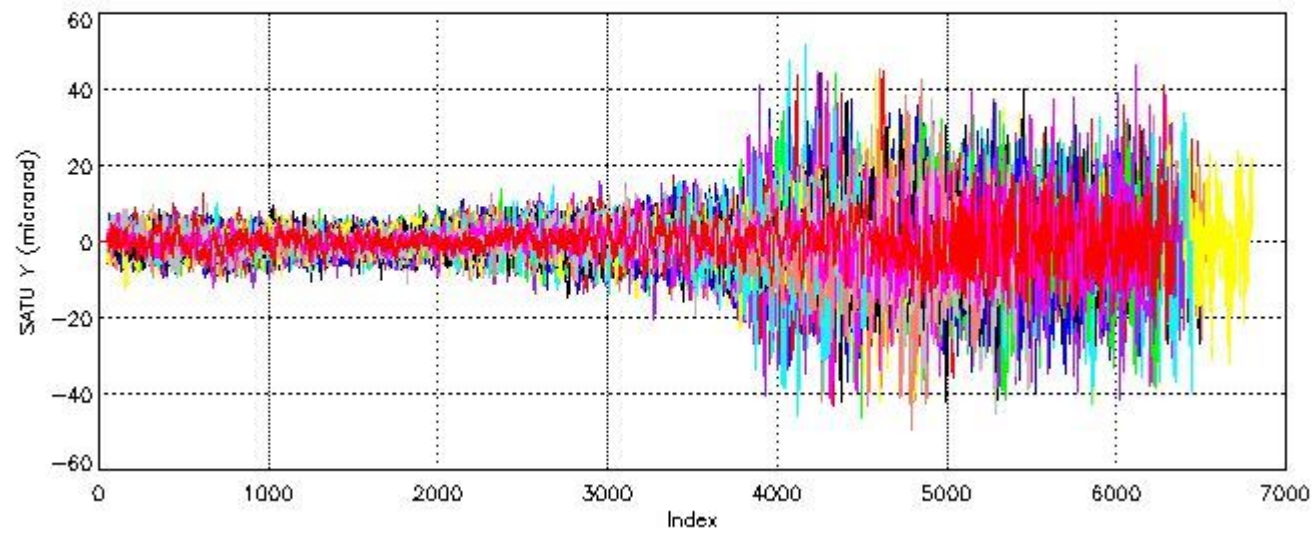
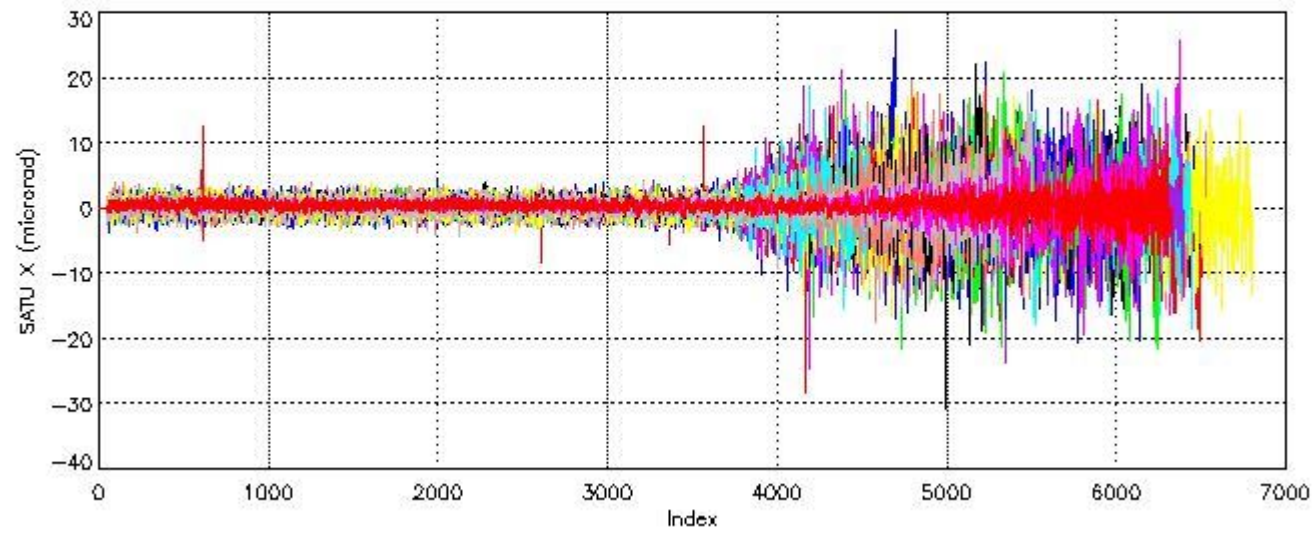


7. Star Acquisition and Tracking Unit (SATU)

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:	0.26351	-0.16116	0.22140	-0.27367
St. deviation:	0.66761	2.6594	0.89188	2.7831
Maximum:	12.500	12.500	7.8000	13.800
Minimum:	-4.9000	-12.400	-8.2000	-15.200

Number of data:	47700.	47700.	86450.	86450.
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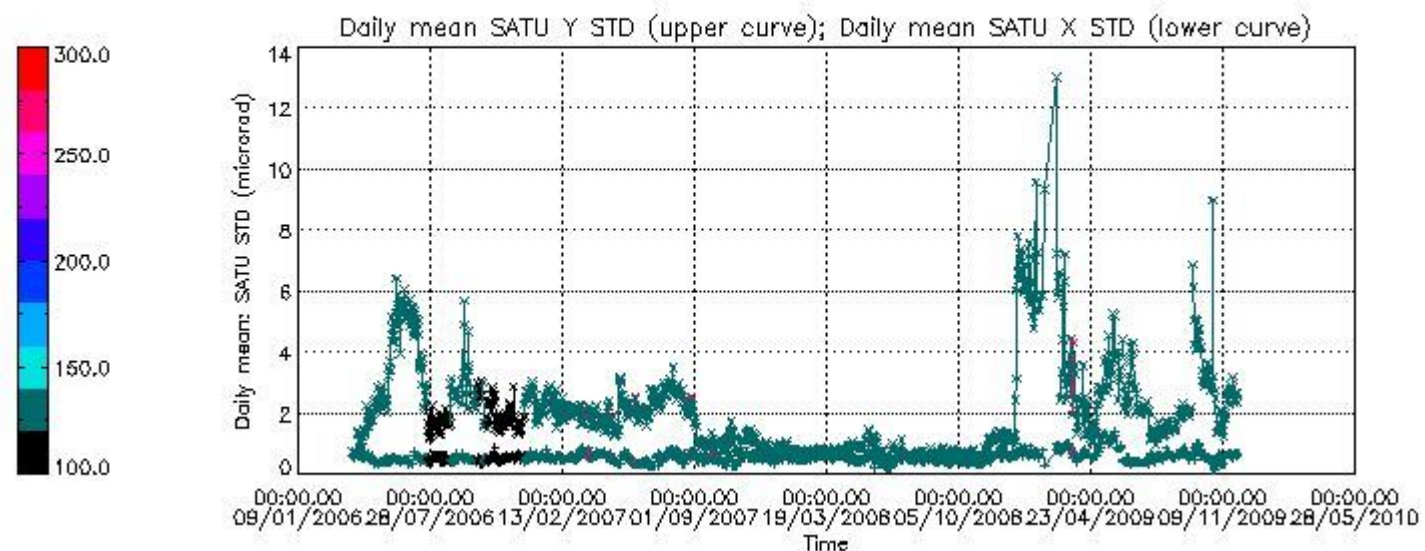
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

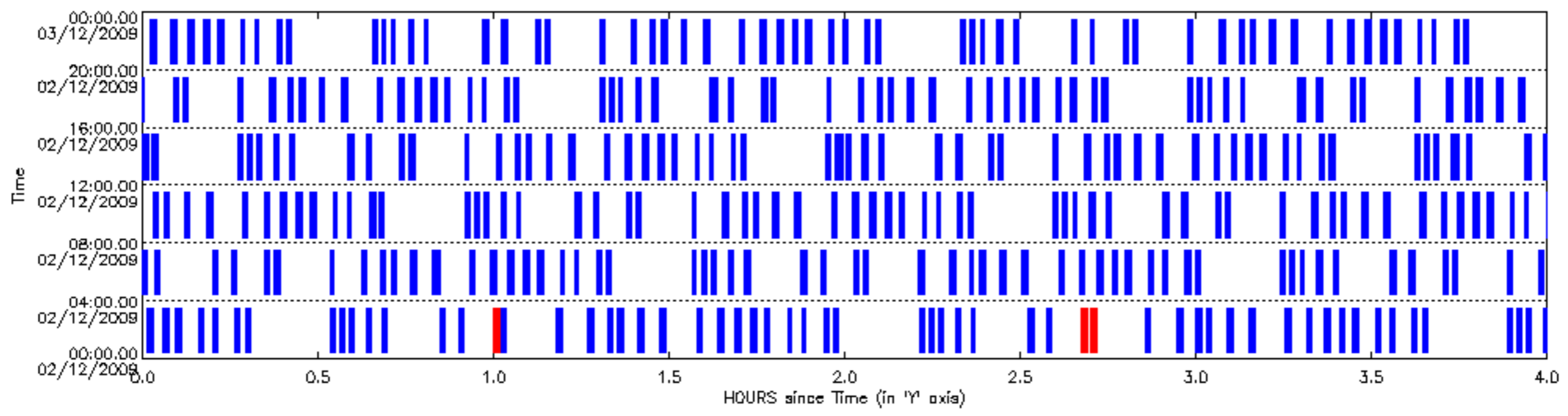
Lower curve: STD of SATU X axis

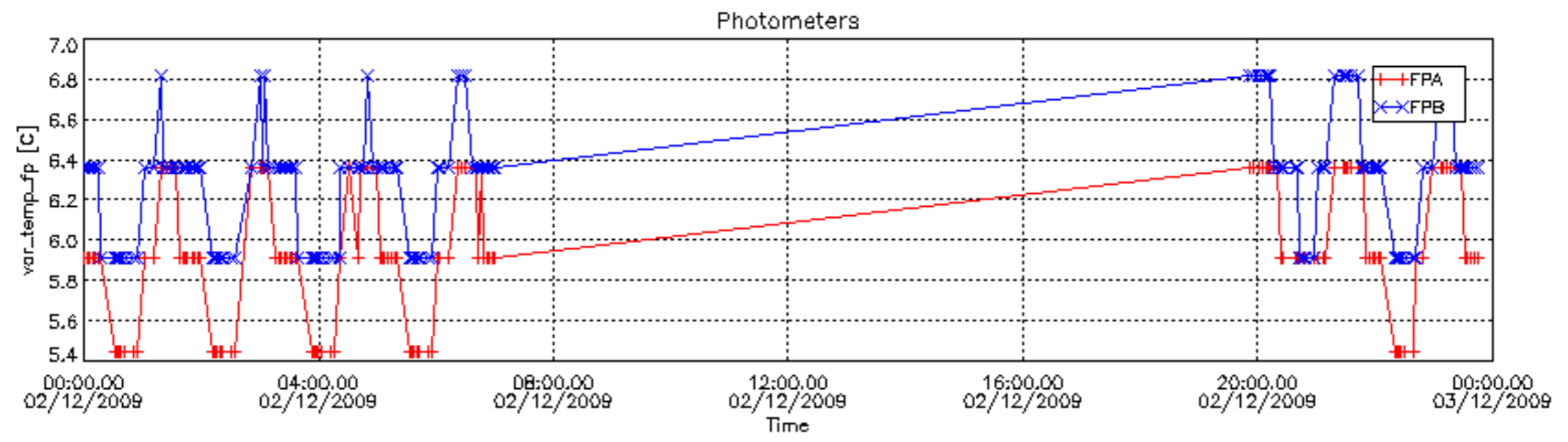
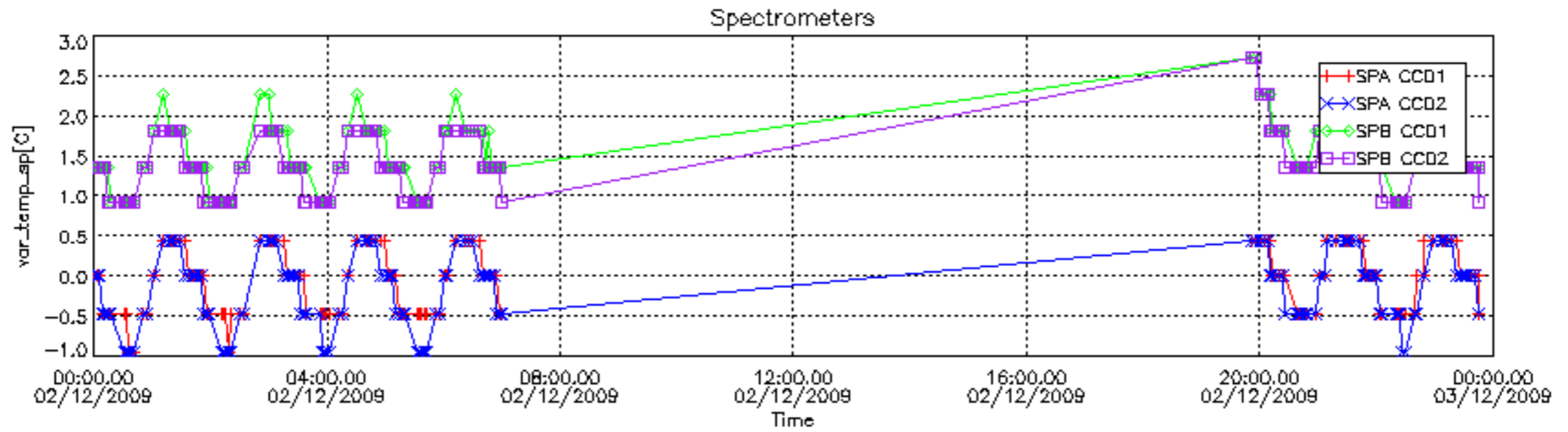


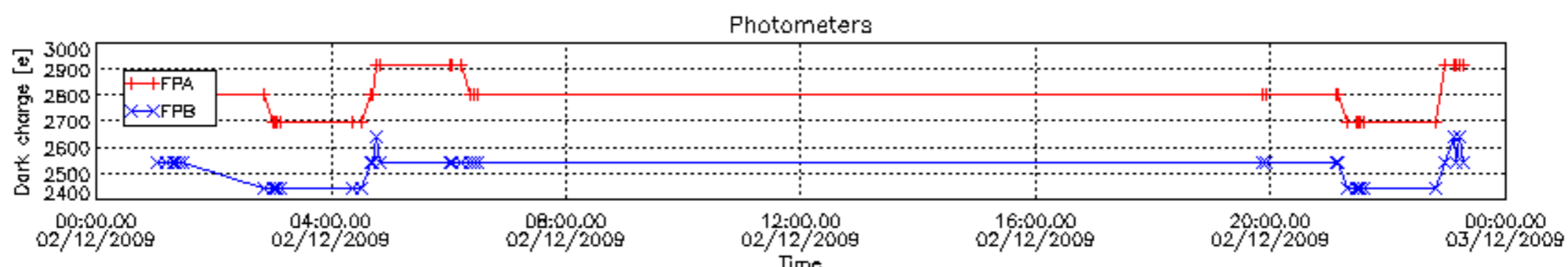
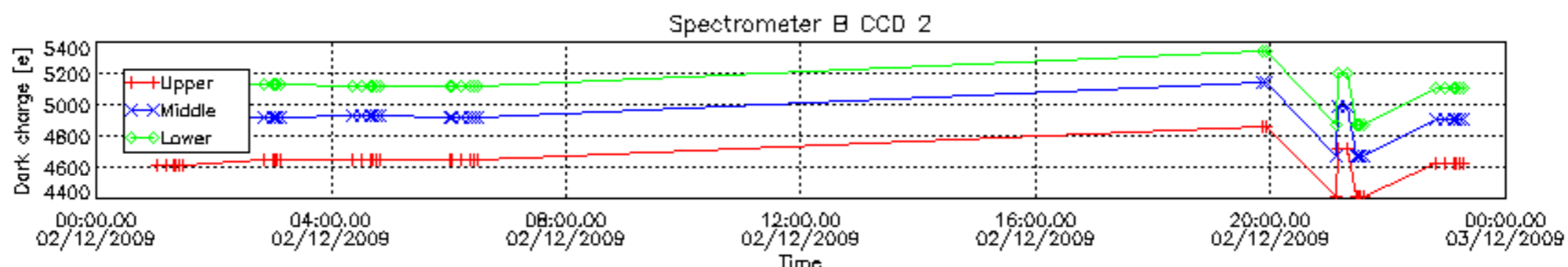
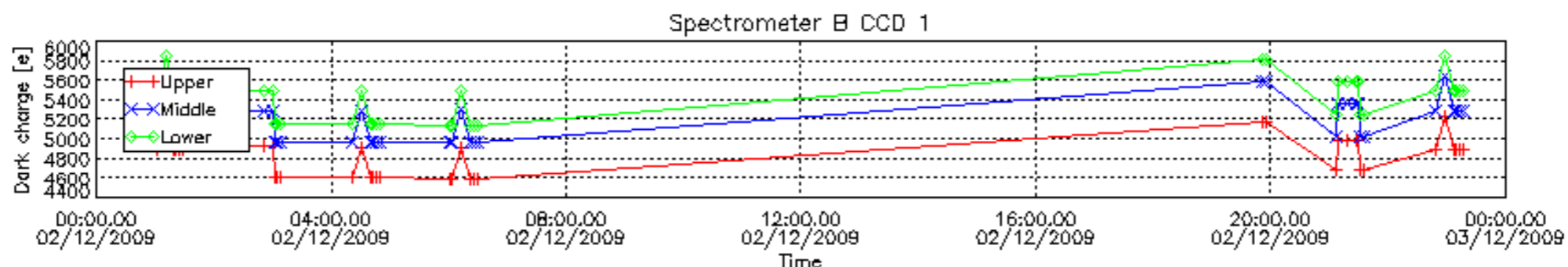
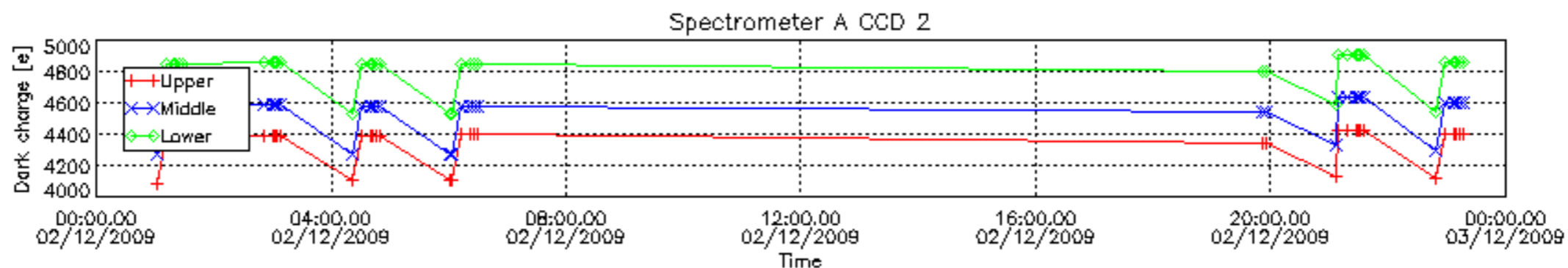
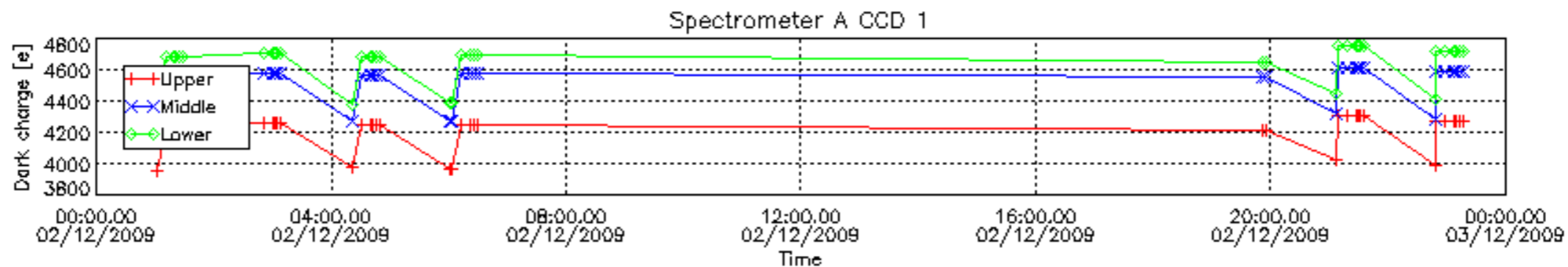
8. Auxiliary Data Files used for the production reported in section 2.4

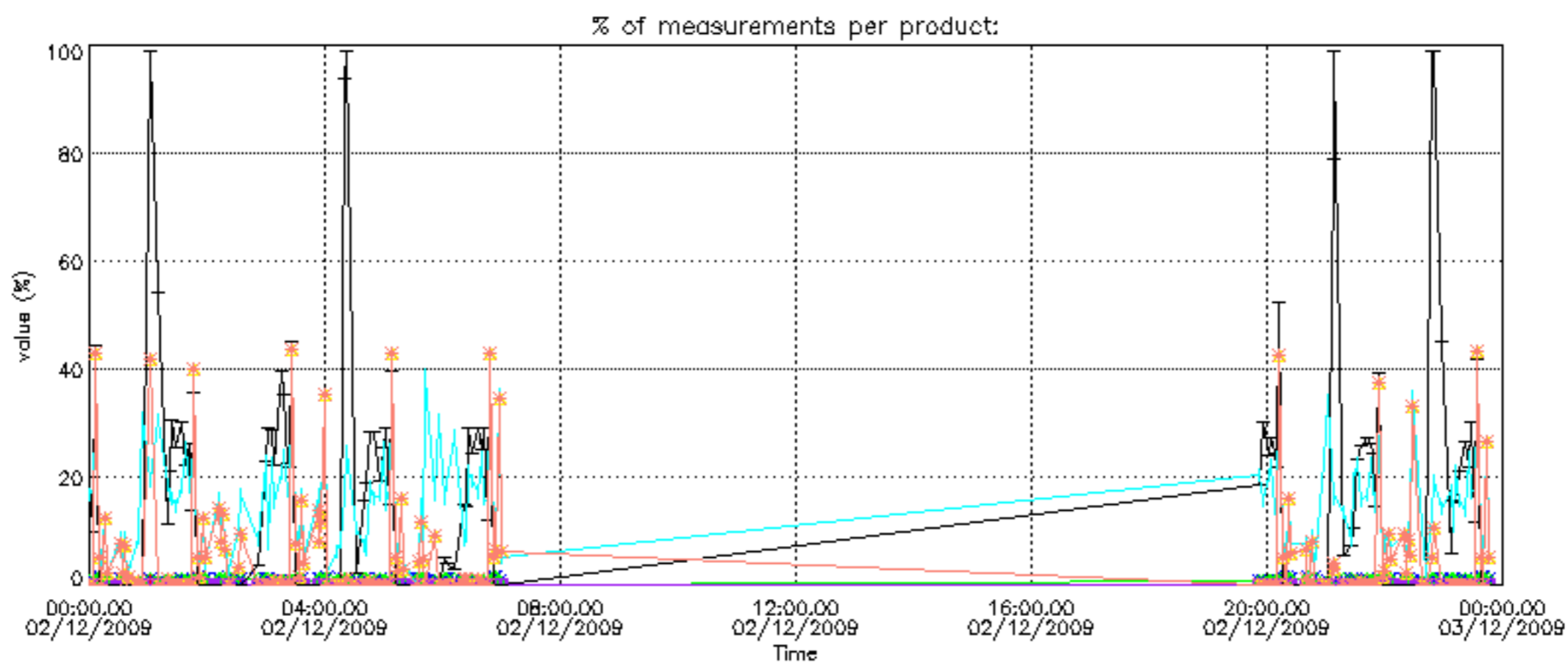
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	02-DEC-2009 00:00:36
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091130_103004_20091128_000000_20500101_000000	1	02-DEC-2009 00:00:36
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	02-DEC-2009 00:00:36
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	02-DEC-2009 00:00:36
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	02-DEC-2009 00:00:36
ECMWF_FILE	AUX_ECF_AXNECM20091201_064110_20091201_210000_20091202_090000	1	02-DEC-2009 00:00:36
ECMWF_FILE	AUX_ECF_AXNECM20091201_184110_20091202_030000_20091202_150000	51	02-DEC-2009 03:53:15
ECMWF_FILE	AUX_ECA_AXNECM20091202_062110_20091201_210000_20091202_090000	74	02-DEC-2009 05:33:51
ECMWF_FILE	AUX_ECA_AXNECM20091202_182111_20091202_090000_20091202_210000	97	02-DEC-2009 19:51:19
ECMWF_FILE	AUX_ECF_AXNECM20091202_064111_20091202_210000_20091203_090000	114	02-DEC-2009 21:01:15
OPTIONAL_ECMWF_FILE	MISSING	1	02-DEC-2009 00:00:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091201_231242_000057382084_00416_40550_9275.N1	1	02-DEC-2009 00:00:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091202_005339_000044632084_00417_40551_9276.N1	15	02-DEC-2009 01:01:15
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091201_010110_20091130_185818_20091210_202429	33	02-DEC-2009 02:18:48
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091202_052956_000057382084_00420_40554_9279.N1	74	02-DEC-2009 05:33:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091202_194521_000041442084_00429_40563_9280.N1	97	02-DEC-2009 19:51:19
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091202_130111_20091202_093203_20091211_195253	114	02-DEC-2009 21:01:15
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091202_224041_000060572084_00430_40564_9282.N1	138	02-DEC-2009 22:47:37

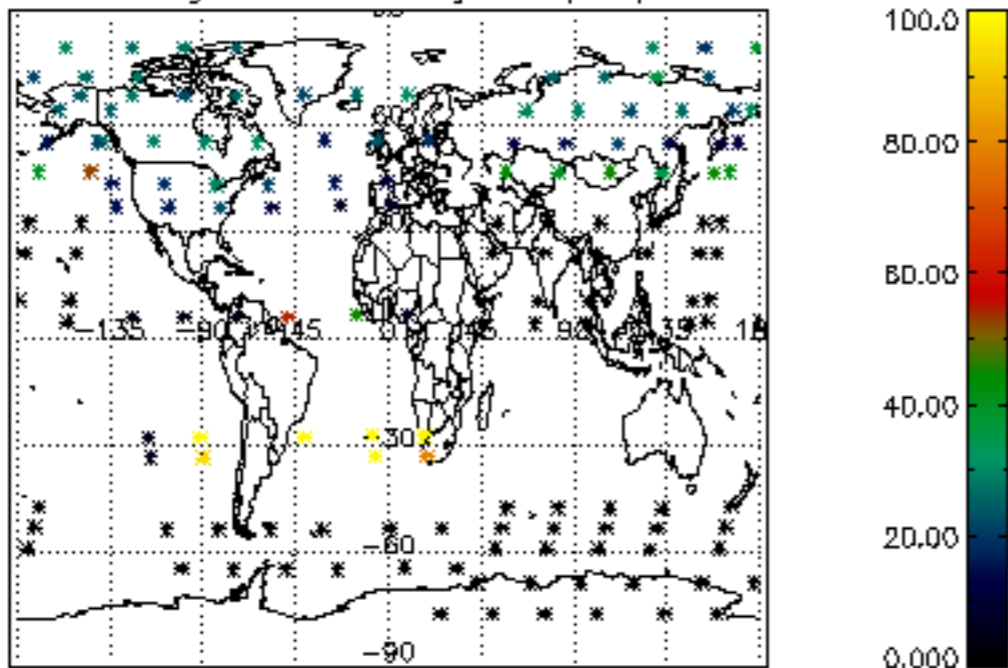




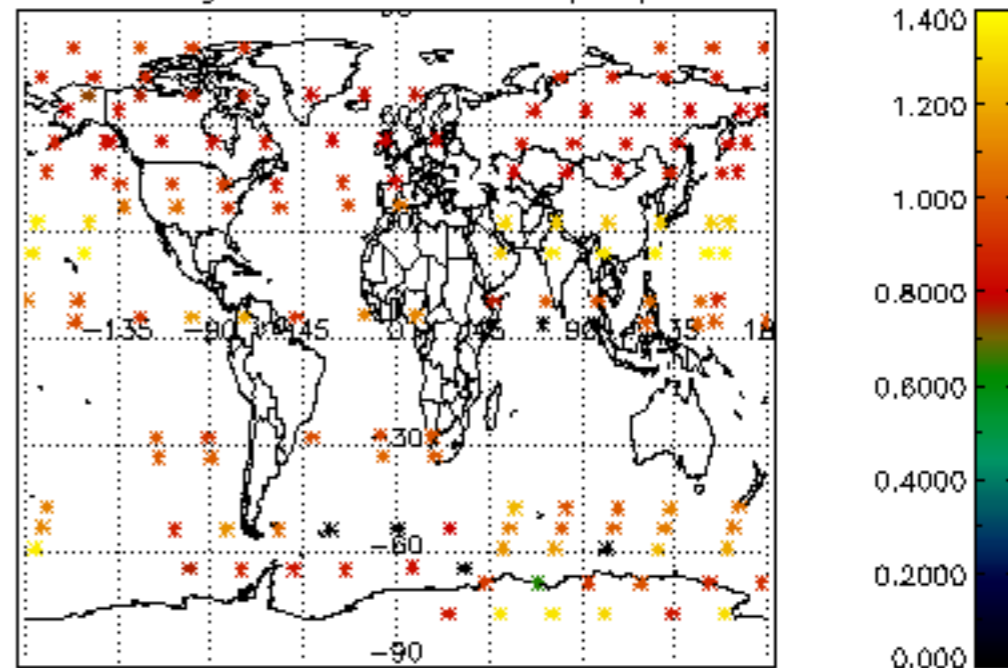




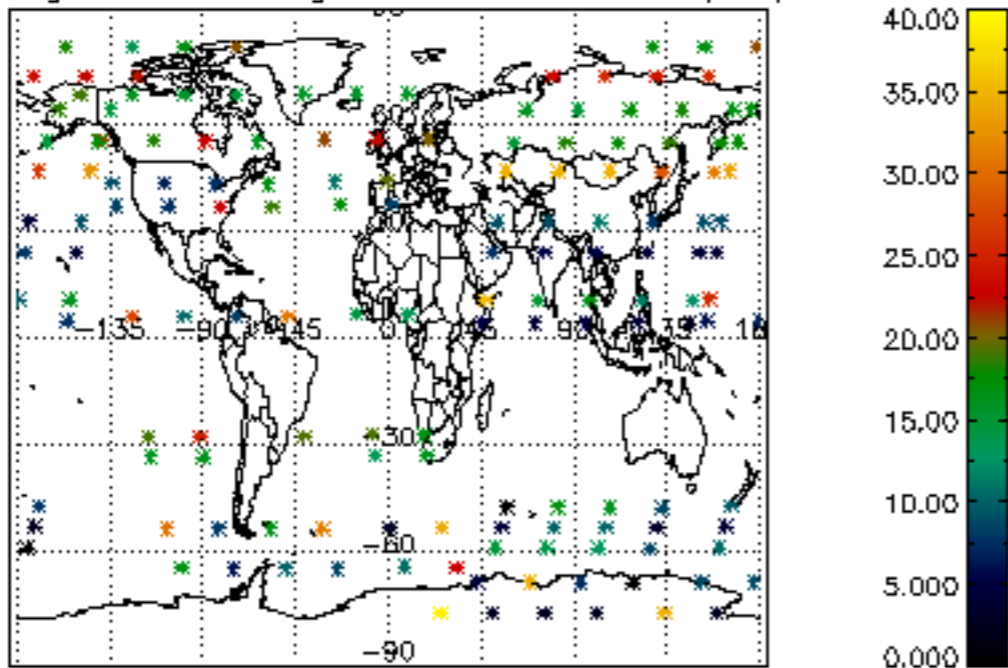
Percentage of cosmic ray hits per profile



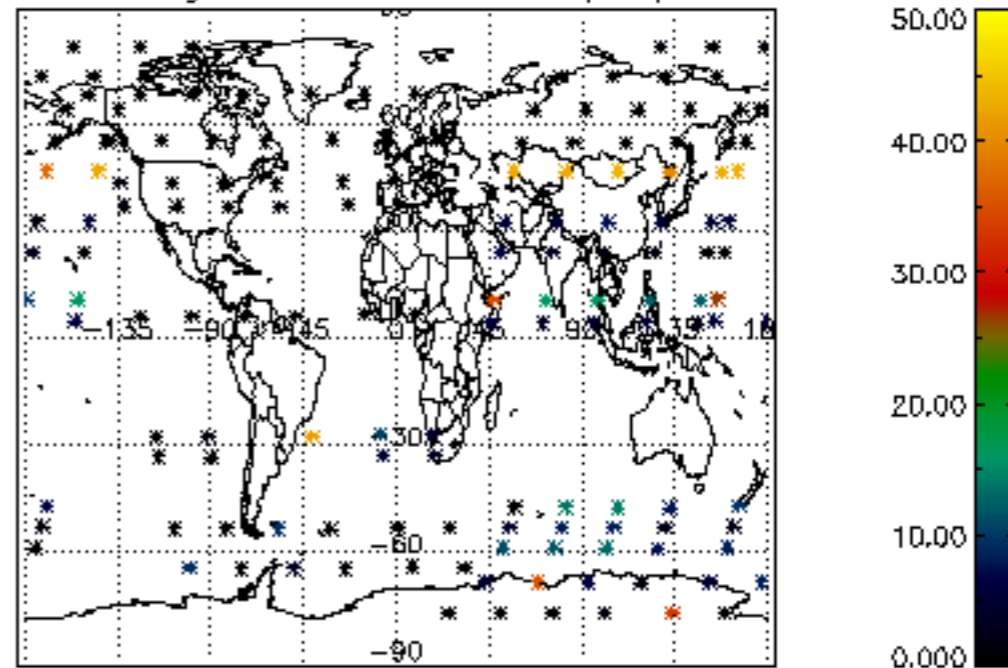
Percentage of datation errors per profile



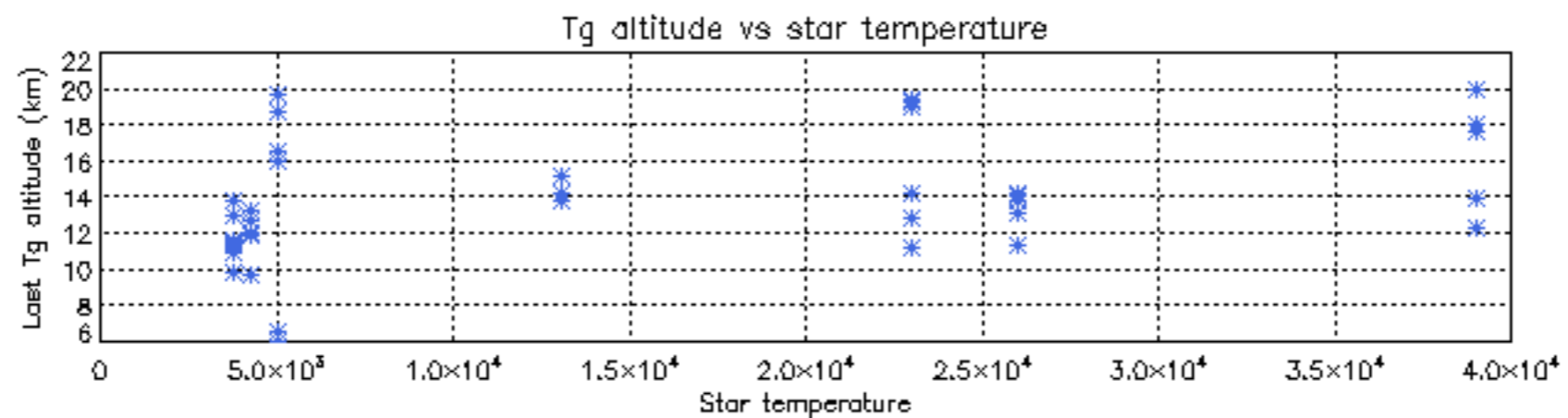
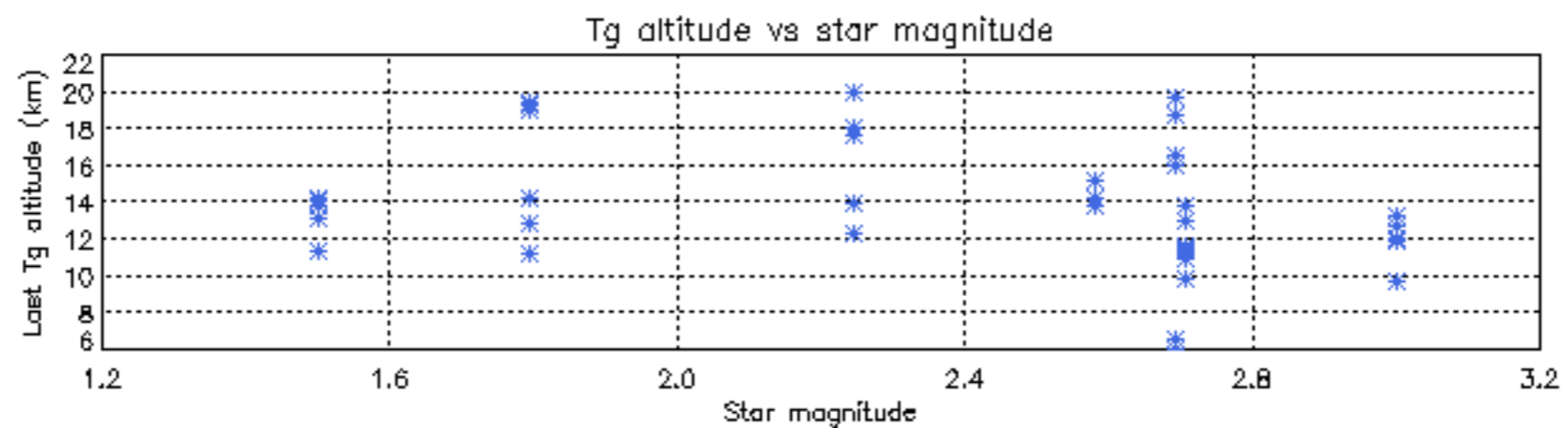
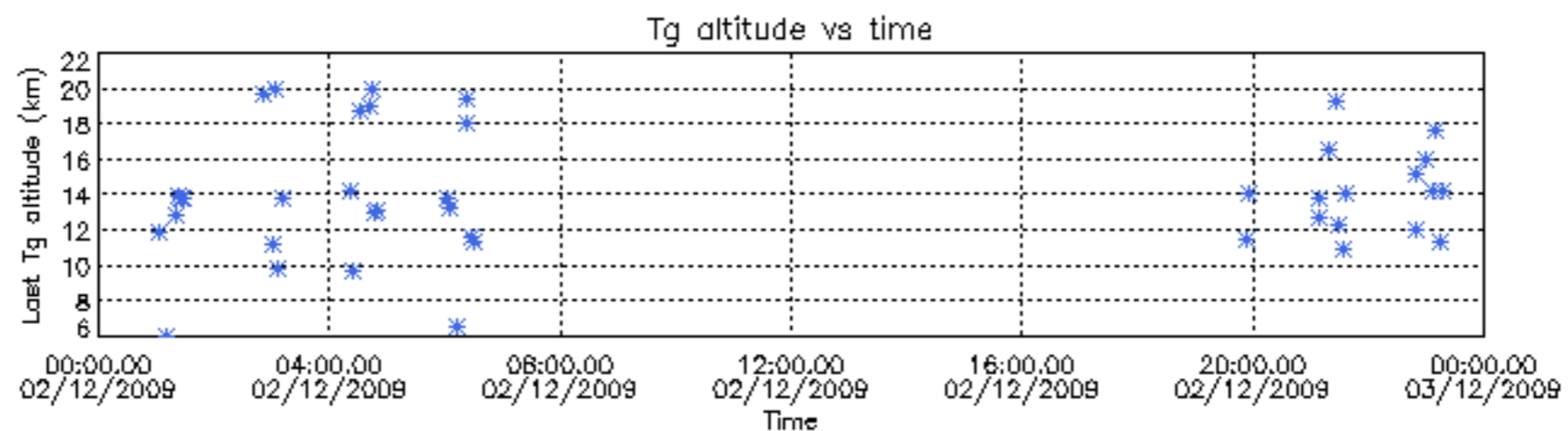
Percentage of star falling outside central band per profile



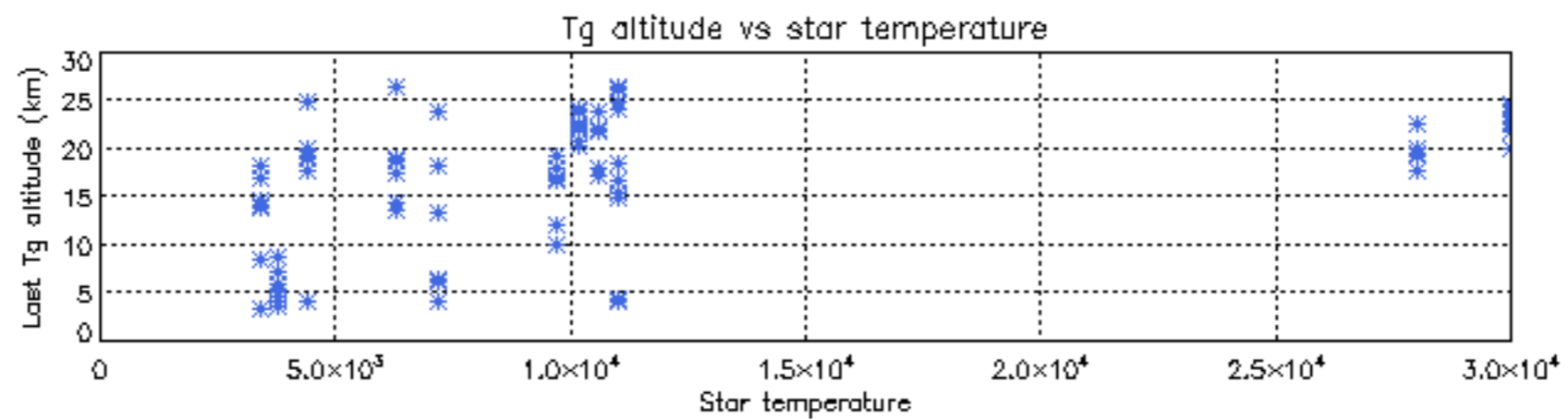
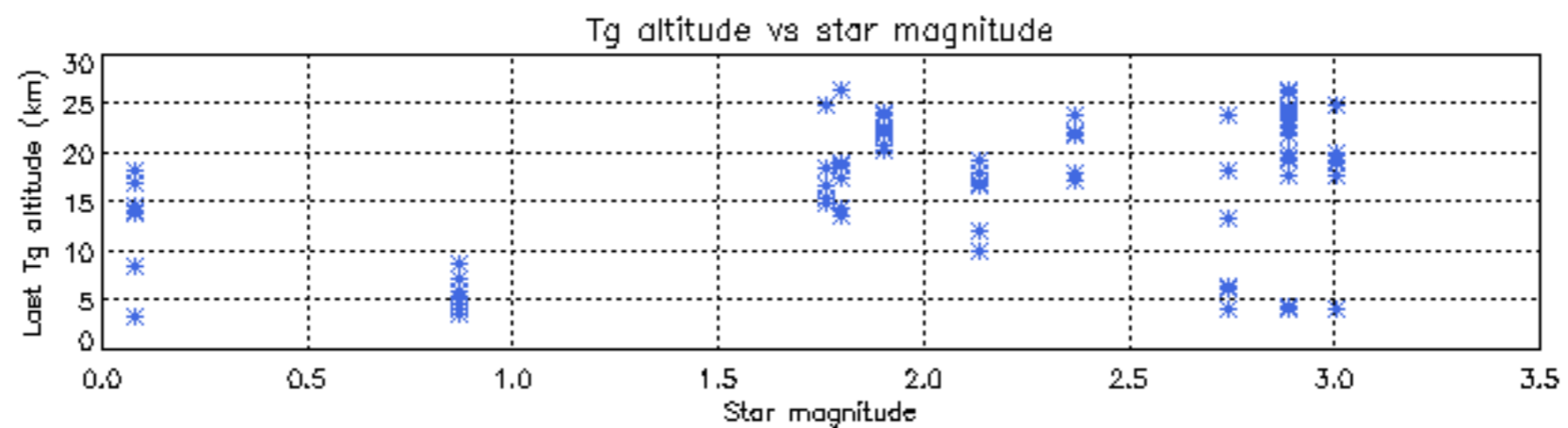
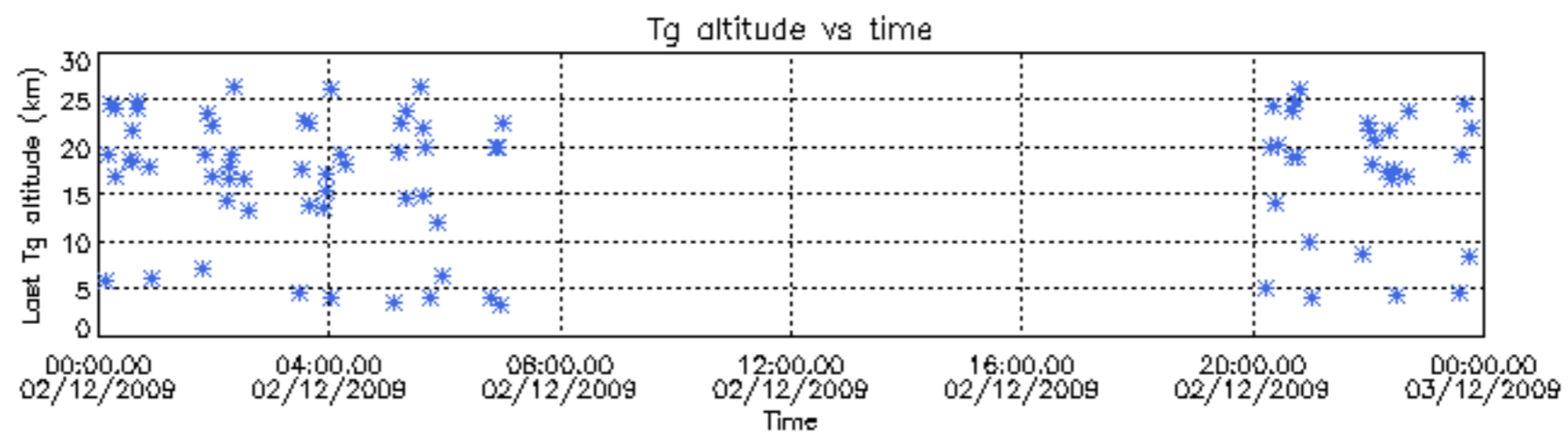
Percentage of saturation errors per profile

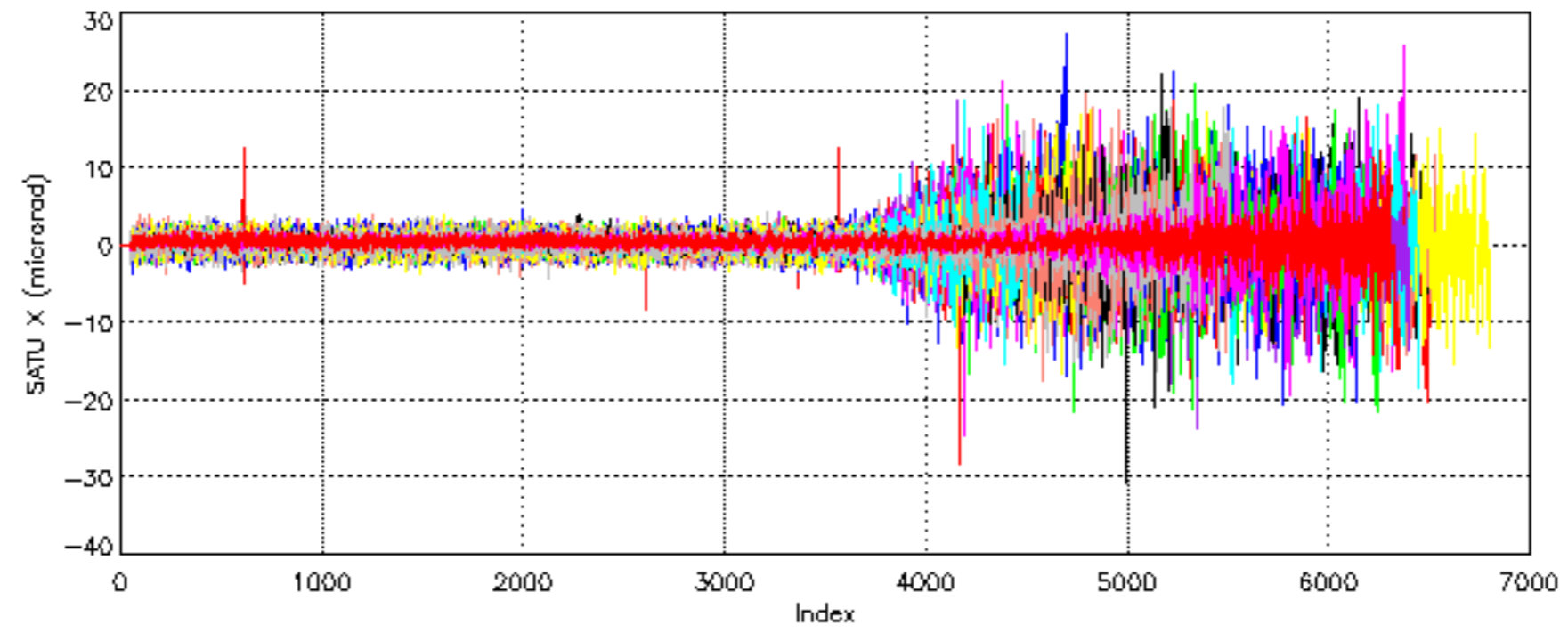


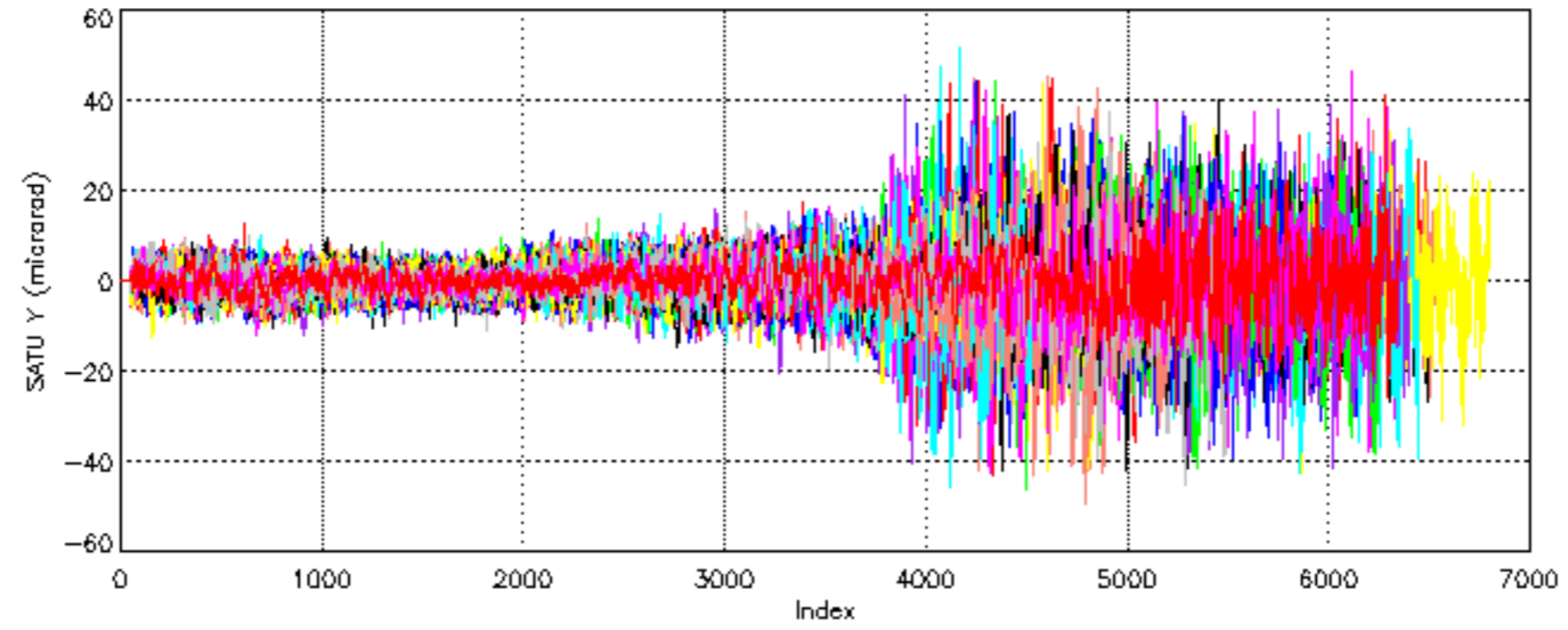
Tangent altitude at which the star is lost

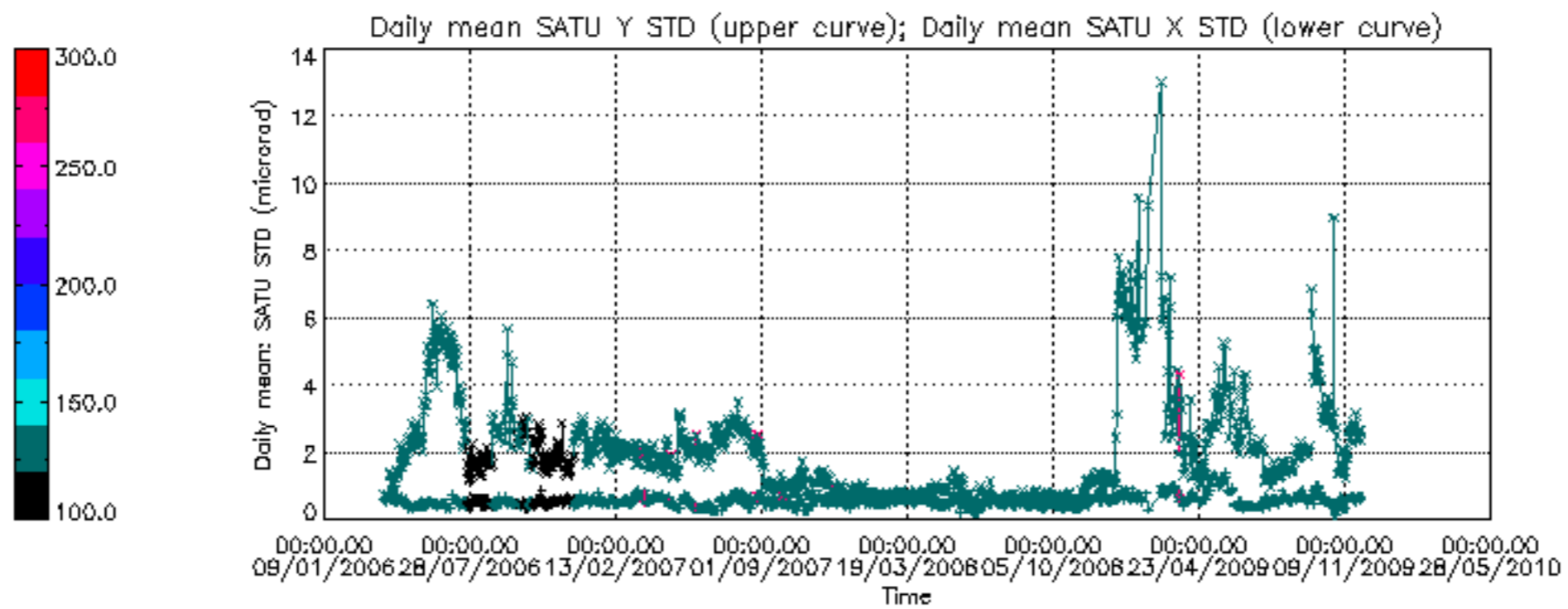


Tangent altitude at which the star is lost









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 3; 88.7; 01-DEC-2009 01:42:10; Dark ; 48.5; 113; Mu Vel ; 2.69; 5000;occ; 97; 0;40538
 4; 407.7; 01-DEC-2009 01:47:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40538
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 7; 919.9; 01-DEC-2009 01:56:01; Dark ; 62.0; 117; Pi Pup ; 2.71; 3800;occ; 124; 0;40538
 8; 1147.6; 01-DEC-2009 01:59:49; Dark ; 69.0; 23; 21Eps CMa ; 1.50; 26000;occ; 138; 0;40538
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 10; 1752.0; 01-DEC-2009 02:09:53; Dark ; 56.5; 7; 19Bet Ori ; 0.10; 14000;occ; 113; 0;40538
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 12; 2096.1; 01-DEC-2009 02:15:37; Dark ; 66.0; 27; 24Gam Ori ; 1.64; 26000;occ; 132; 0;40538
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 15; 2470.7; 01-DEC-2009 02:21:52; Bright; 39.5; 150; 44Zet Per ; 2.89; 28000;occ; 79; 0;40538
 16; 2616.0; 01-DEC-2009 02:24:17; Bright; 39.5; 149; 45Eps Per ; 2.89; 30000;occ; 79; 0;40538
 17; 2847.4; 01-DEC-2009 02:28:08; Bright; 47.5; 6; 13Alp Aur ; 0.08; 3400;occ; 95; 0;40538
 18; 2957.0; 01-DEC-2009 02:29:58; Bright; 51.0; 42; 34Bet Aur ; 1.90; 10200;occ; 102; 0;40538
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 19; 2095.2; 01-DEC-2009 05:36:48; Dark ; 60.5; 27; 24Gam Ori ; 1.64; 26000;occ; 121; 0;40540
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14; 4013.7; 01-DEC-2009 21:14:10; Bright; 39.0; 32; 77Eps UMa ; 1.76; 11000;occ; 78; 0;40549
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13; 4332.0; 11-DEC-2009 14:22:41; Bright; 34.5; 180; 27Gam Boo ; 3.04; 8000;occ; 69; 0;40688
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22; 6249.9; 11-DEC-2009 14:54:39; Dark ; 43.5; 113; Mu Vel ; 2.69; 5000;occ; 87; 0;40688
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 29; 7076.7; 12-DEC-2009 17:58:01; Dark ; 56.5; 117; Pi Pup ; 2.71; 3800;occ; 113; 0;40704

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 2; 1530.6; 12-DEC-2009 18:06:11; Dark ; 56.0; 47; 2Bet CMa ; 1.98; 28000;occ; 112; 0;40705
 3; 1748.4; 12-DEC-2009 18:09:49; Dark ; 49.5; 7; 19Bet Ori ; 0.10; 14000;occ; 99; 0;40705
 4; 1891.0; 12-DEC-2009 18:12:12; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;40705
 5; 2035.7; 12-DEC-2009 18:14:36; Dark ; 49.5; 27; 24Gam Ori ; 1.64; 26000;occ; 99; 0;40705
 6; 2194.7; 12-DEC-2009 18:17:15; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;40705
 7; 2346.0; 12-DEC-2009 18:19:47; Bright; 47.5; 176; 23Zet Tau ; 3.02; 22000;occ; 95; 0;40705
 8; 2468.3; 12-DEC-2009 18:21:49; Bright; 46.0; 28; 12Bet Tau ; 1.65; 15200;occ; 92; 0;40705
 9; 2589.8; 12-DEC-2009 18:23:50; Bright; 36.0; 149; 45Eps Per ; 2.89; 30000;occ; 72; 0;40705
 10; 2696.0; 12-DEC-2009 18:25:37; Bright; 47.0; 107; 37The Aur ; 2.65; 11000;occ; 94; 0;40705
 11; 2823.6; 12-DEC-2009 18:27:44; Bright; 45.5; 42; 34Bet Aur ; 1.90; 10200;occ; 91; 0;40705
 12; 3752.6; 12-DEC-2009 18:43:13; Bright; 44.0; 36; 50Alp UMa ; 1.80; 6300;occ; 88; 0;40705
 13; 3992.3; 12-DEC-2009 18:47:13; Bright; 44.5; 32; 77Eps UMa ; 1.76; 11000;occ; 89; 0;40705
 14; 4139.7; 12-DEC-2009 18:49:40; Bright; 39.0; 39; 85Eta UMa ; 1.85; 24000;occ; 78; 0;40705
 15; 4333.6; 12-DEC-2009 18:52:54; Bright; 41.5; 180; 27Gam Boo ; 3.04; 8000;occ; 83; 0;40705
 16; 4716.5; 12-DEC-2009 18:59:17; Bright; 39.0; 111; 8Eta Boo ; 2.68; 6000;occ; 78; 0;40705
 17; 4939.5; 12-DEC-2009 19:03:00; Bright; 55.0; 138; 47Eps Vir ; 2.83; 4700;occ; 110; 0;40705
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 19; 5504.1; 12-DEC-2009 19:12:25; Dark ; 46.0; 169; 46Gam Hya ; 2.99; 4700;occ; 92; 0;40705
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 22; 5948.9; 12-DEC-2009 19:19:49; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;40705
 23; 6043.6; 12-DEC-2009 19:21:24; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;40705
 24; 6264.7; 12-DEC-2009 19:25:05; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;40705
 25; 6504.3; 12-DEC-2009 19:29:05; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;40705
 26; 6580.0; 12-DEC-2009 19:30:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40705
 27; 6779.3; 12-DEC-2009 19:33:40; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;40705
 28; 6921.9; 12-DEC-2009 19:36:03; Dark ; 29.0; 2; Alp Car ; -0.74; 7000;occ; 58; 0;40705

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 3; 1243.2; 12-DEC-2009 19:42:00; Dark ; 57.0; 23; 21Eps CMa ; 1.50; 26000;occ; 114; 0;40706
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 5; 1748.3; 12-DEC-2009 19:50:25; Dark ; 49.0; 7; 19Bet Ori ; 0.10; 14000;occ; 98; 0;40706
 6; 1890.9; 12-DEC-2009 19:52:47; Dark ; 50.0; 30; 46Eps Ori ; 1.69; 30000;occ; 100; 0;40706
 7; 2035.6; 12-DEC-2009 19:55:12; Dark ; 48.0; 27; 24Gam Ori ; 1.64; 26000;occ; 96; 0;40706
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 12; 2695.2; 12-DEC-2009 20:06:12; Bright; 48.0; 107; 37The Aur ; 2.65; 11000;occ; 96; 0;40706
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 15; 3992.0; 12-DEC-2009 20:27:49; Bright; 40.0; 32; 77Eps UMa ; 1.76; 11000;occ; 80; 0;40706
 16; 4139.9; 12-DEC-2009 20:30:16; Bright; 41.5; 39; 85Eta UMa ; 1.85; 24000;occ; 83; 0;40706
 17; 4333.5; 12-DEC-2009 20:33:30; Bright; 35.5; 180; 27Gam Boo ; 3.04; 8000;occ; 71; 0;40706
 18; 4716.6; 12-DEC-2009 20:39:53; Bright; 37.5; 111; 8Eta Boo ; 2.68; 6000;occ; 75; 0;40706
 19; 4940.2; 12-DEC-2009 20:43:37; Bright; 53.5; 138; 47Eps Vir ; 2.83; 4700;occ; 107; 0;40706

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 6; 8.2; 12-DEC-2009 21:02:01; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;40707
 7; 229.7; 12-DEC-2009 21:05:42; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;40707
 8; 468.7; 12-DEC-2009 21:09:41; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;40707

9; 544.8; 12-DEC-2009 21:10:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40707
10; 744.0; 12-DEC-2009 21:14:16; Dark ; 50.5; 34; Gam2Vel ; 1.79; 23000;occ; 101; 0;40707
11; 886.5; 12-DEC-2009 21:16:39; Dark ; 56.0; 2; Alp Car ;-0.74; 7000;occ; 112; 0;40707
12; 1041.6; 12-DEC-2009 21:19:14; Dark ; 55.5; 117; Pi Pup ; 2.71; 3800;occ; 111; 0;40707
13; 1243.7; 12-DEC-2009 21:22:36; Dark ; 55.0; 23; 21Eps CMA ; 1.50; 26000;occ; 110; 0;40707
14; 1530.8; 12-DEC-2009 21:27:23; Dark ; 54.0; 47; 2Bet CMA ; 1.98; 28000;occ; 108; 0;40707
15; 1748.4; 12-DEC-2009 21:31:01; Dark ; 53.0; 7; 19Bet Ori ; 0.10; 14000;occ; 106; 0;40707
16; 1890.6; 12-DEC-2009 21:33:23; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;40707
17; 2035.2; 12-DEC-2009 21:35:48; Dark ; 49.5; 27; 24Gam Ori ; 1.64; 26000;occ; 99; 0;40707
18; 2194.4; 12-DEC-2009 21:38:27; Dark ; 47.0; 13; 87Alp Tau ; 0.87; 3800;occ; 94; 0;40707
19; 2345.0; 12-DEC-2009 21:40:57; Bright; 44.0; 176; 23Zet Tau ; 3.02; 22000;occ; 88; 0;40707
20; 2467.1; 12-DEC-2009 21:43:00; Bright; 42.5; 28; 12Bet Tau ; 1.65; 15200;occ; 85; 0;40707
21; 2589.5; 12-DEC-2009 21:45:02; Bright; 37.5; 149; 45Eps Per ; 2.89; 30000;occ; 75; 0;40707
22; 2694.5; 12-DEC-2009 21:46:47; Bright; 46.0; 107; 37The Aur ; 2.65; 11000;occ; 92; 0;40707
23; 2822.1; 12-DEC-2009 21:48:55; Bright; 66.0; 42; 34Bet Aur ; 1.90; 10200;occ; 132; 0;40707
24; 3751.7; 12-DEC-2009 22:04:24; Bright; 48.0; 36; 50Alp UMa ; 1.80; 6300;occ; 96; 0;40707
25; 3991.9; 12-DEC-2009 22:08:24; Bright; 45.0; 32; 77Eps UMa ; 1.76; 11000;occ; 90; 0;40707
26; 4139.7; 12-DEC-2009 22:10:52; Bright; 57.0; 39; 85Eta UMa ; 1.85; 24000;occ; 114; 0;40707
27; 4333.8; 12-DEC-2009 22:14:06; Bright; 37.0; 180; 27Gam Boo ; 3.04; 8000;occ; 74; 0;40707
28; 4716.9; 12-DEC-2009 22:20:29; Bright; 39.0; 111; 8Eta Boo ; 2.68; 6000;occ; 78; 0;40707
29; 4940.7; 12-DEC-2009 22:24:13; Bright; 54.0; 138; 47Eps Vir ; 2.83; 4700;occ; 108; 0;40707
30; 5296.0; 12-DEC-2009 22:30:09; Dark ; 44.0; 15; 67Alp Vir ; 0.98; 28000;occ; 88; 0;40707

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3; -405.7; 12-DEC-2009 22:35:43; Dark ; 53.5; 100; 4Gam Crv ; 2.58; 13100;occ; 107; 0;40707
4; -309.6; 12-DEC-2009 22:37:19; Dark ; 63.0; 171; 2Eps Crv ; 3.00; 4250;occ; 126; 0;40707
5; -85.9; 12-DEC-2009 22:41:02; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;40707
6; 8.7; 12-DEC-2009 22:42:37; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;40708
7; 230.5; 12-DEC-2009 22:46:19; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;40708
8; 469.4; 12-DEC-2009 22:50:18; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;40708
9; 545.6; 12-DEC-2009 22:51:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40708
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11; 886.9; 12-DEC-2009 22:57:15; Dark ; 49.5; 2; Alp Car ;-0.74; 7000;occ; 99; 0;40708
12; 1042.3; 12-DEC-2009 22:59:51; Dark ; 54.0; 117; Pi Pup ; 2.71; 3800;occ; 108; 0;40708
13; 1244.3; 12-DEC-2009 23:03:13; Dark ; 55.0; 23; 21Eps CMA ; 1.50; 26000;occ; 110; 0;40708
14; 1530.9; 12-DEC-2009 23:07:59; Dark ; 53.0; 47; 2Bet CMA ; 1.98; 28000;occ; 106; 0;40708
15; 1748.3; 12-DEC-2009 23:11:37; Dark ; 47.5; 7; 19Bet Ori ; 0.10; 14000;occ; 95; 0;40708
16; 1890.4; 12-DEC-2009 23:13:59; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;40708
17; 2035.0; 12-DEC-2009 23:16:23; Dark ; 51.0; 27; 24Gam Ori ; 1.64; 26000;occ; 102; 0;40708
18; 2194.2; 12-DEC-2009 23:19:03; Dark ; 47.5; 13; 87Alp Tau ; 0.87; 3800;occ; 95; 0;40708
19; 2344.7; 12-DEC-2009 23:21:33; Bright; 43.5; 176; 23Zet Tau ; 3.02; 22000;occ; 87; 0;40708
20; 2466.7; 12-DEC-2009 23:23:35; Bright; 44.5; 28; 12Bet Tau ; 1.65; 15200;occ; 89; 0;40708
21; 2589.7; 12-DEC-2009 23:25:38; Bright; 36.5; 149; 45Eps Per ; 2.89; 30000;occ; 73; 0;40708
22; 2693.9; 12-DEC-2009 23:27:22; Bright; 66.0; 107; 37The Aur ; 2.65; 11000;occ; 132; 0;40708
23; 2821.5; 12-DEC-2009 23:29:30; Bright; 44.5; 42; 34Bet Aur ; 1.90; 10200;occ; 89; 0;40708
24; 3751.3; 12-DEC-2009 23:45:00; Bright; 43.0; 36; 50Alp UMa ; 1.80; 6300;occ; 86; 0;40708
25; 3991.3; 12-DEC-2009 23:49:00; Bright; 44.0; 32; 77Eps UMa ; 1.76; 11000;occ; 88; 0;40708
26; 4139.5; 12-DEC-2009 23:51:28; Bright; 38.0; 39; 85Eta UMa ; 1.85; 24000;occ; 76; 0;40708
27; 4334.0; 12-DEC-2009 23:54:42; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;40708
28; 4717.3; 13-DEC-2009 00:01:06; Bright; 38.5; 111; 8Eta Boo ; 2.68; 6000;occ; 77; 0;40708
29; 4941.2; 13-DEC-2009 00:04:50; Bright; 70.0; 138; 47Eps Vir ; 2.83; 4700;occ; 140; 0;40708
30; 5296.7; 13-DEC-2009 00:10:45; Dark ; 48.0; 15; 67Alp Vir ; 0.98; 28000;occ; 96; 0;40708

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3; -308.5; 13-DEC-2009 00:17:56; Dark ; 57.5; 171; 2Eps Crv ; 3.00; 4250;occ; 115; 0;40708
4; -85.5; 13-DEC-2009 00:21:39; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;40708
5; 9.4; 13-DEC-2009 00:23:14; Dark ; 43.5; 99; Del Cen ; 2.58; 26000;occ; 87; 0;40709
6; 231.4; 13-DEC-2009 00:26:56; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;40709
7; 470.0; 13-DEC-2009 00:30:54; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;40709
8; 546.4; 13-DEC-2009 00:32:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40709
9; 745.4; 13-DEC-2009 00:35:30; Dark ; 52.0; 34; Gam2Vel ; 1.79; 23000;occ; 104; 0;40709
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12; 1244.5; 13-DEC-2009 00:43:49; Dark ; 53.0; 23; 21Eps CMA ; 1.50; 26000;occ; 106; 0;40709
13; 1531.0; 13-DEC-2009 00:48:35; Dark ; 52.5; 47; 2Bet CMA ; 1.98; 28000;occ; 105; 0;40709
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19; 2466.2; 13-DEC-2009 01:04:10; Bright; 45.0; 28; 12Bet Tau ; 1.65; 15200;occ; 90; 0;40709
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21; 2693.0; 13-DEC-2009 01:07:57; Bright; 47.5; 107; 37The Aur ; 2.65; 11000;occ; 95; 0;40709
22; 2820.7; 13-DEC-2009 01:10:05; Bright; 43.5; 42; 34Bet Aur ; 1.90; 10200;occ; 87; 0;40709
23; 3750.6; 13-DEC-2009 01:25:35; Bright; 49.0; 36; 50Alp UMa ; 1.80; 6300;occ; 98; 0;40709
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8; 470.7; 13-DEC-2009 02:11:31; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;40710
9; 547.1; 13-DEC-2009 02:12:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40710
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 9; 3703.7; 18-DEC-2009 12:11:31; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;40787
 10; 3974.4; 18-DEC-2009 12:16:02; Bright; 63.0; 32; 77Eps UMa ; 1.76; 11000;occ; 126; 0;40787
 11; 4135.3; 18-DEC-2009 12:18:43; Bright; 59.0; 39; 85Eta UMa ; 1.85; 24000;occ; 118; 0;40787
 12; 4341.1; 18-DEC-2009 12:22:09; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;40787
 13; 4537.1; 18-DEC-2009 12:25:25; Bright; 55.0; 83; ; 2.38; 11000;occ; 110; 0;40787
 14; 4741.7; 18-DEC-2009 12:28:49; Bright; 43.5; 111; 8Eta Boo ; 2.68; 6000;occ; 87; 0;40787
 15; 5354.1; 18-DEC-2009 12:39:02; Dark ; 54.0; 15; 67Alp Vir ; 0.98; 28000;occ; 108; 0;40787
 16; 5564.6; 18-DEC-2009 12:42:32; Dark ; 47.5; 169; 46Gam Hya ; 2.99; 4700;occ; 95; 0;40787
 17; 5726.8; 18-DEC-2009 12:45:14; Dark ; 58.0; 106; 9Bet Crv ; 2.65; 5600;occ; 116; 0;40787
 18; 5999.8; 18-DEC-2009 12:49:47; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 81; 0;40787
 19; 6099.9; 18-DEC-2009 12:51:27; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;40787
 20; 6337.6; 18-DEC-2009 12:55:25; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40787
 21; 6554.8; 18-DEC-2009 12:59:02; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;40787
 22; 6641.4; 18-DEC-2009 13:00:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40787
 23; 6837.7; 18-DEC-2009 13:03:45; Dark ; 53.0; 34; Gam2Vel ; 1.79; 23000;occ; 106; 0;40787
 24; 6966.7; 18-DEC-2009 13:05:54; Dark ; 50.5; 70; Zet Pup ; 2.25; 39000;occ; 101; 0;40787
 25; 7123.5; 18-DEC-2009 13:08:31; Dark ; 53.0; 117; Pi Pup ; 2.71; 3800;occ; 106; 0;40787
 26; 7313.8; 18-DEC-2009 13:11:41; Dark ; 53.5; 23; 21Eps CMA ; 1.50; 26000;occ; 107; 0;40787
 27; 7418.7; 18-DEC-2009 13:13:26; Dark ; 52.5; 179; 240mi2CMA ; 3.03; 24000;occ; 105; 0;40787
 28; 7594.7; 18-DEC-2009 13:16:22; Dark ; 8.5; 1; 9Alp CMA ; -1.44; 11000;occ; 17; 0;40787

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 3; 1882.1; 18-DEC-2009 13:21:46; Dark ; 47.5; 30; 46Eps Ori ; 1.69; 30000;occ; 95; 0;40788
 4; 2063.5; 18-DEC-2009 13:24:47; Dark ; 56.5; 14; 58Alp Ori ; 0.87; 3000;occ; 113; 0;40788
 5; 2188.7; 18-DEC-2009 13:26:52; Dark ; 44.0; 13; 87Alp Tau ; 0.87; 3800;occ; 88; 0;40788
 6; 2311.4; 18-DEC-2009 13:28:55; Bright; 43.0; 176; 23Zet Tau ; 3.02; 22000;occ; 86; 0;40788
 7; 2435.0; 18-DEC-2009 13:30:58; Bright; 44.0; 28; 12Bet Tau ; 1.65; 15200;occ; 88; 0;40788
 8; 2643.4; 18-DEC-2009 13:34:27; Bright; 41.0; 107; 37The Aur ; 2.65; 11000;occ; 82; 0;40788
 9; 2774.9; 18-DEC-2009 13:36:38; Bright; 43.5; 42; 34Bet Aur ; 1.90; 10200;occ; 87; 0;40788
 10; 3703.8; 18-DEC-2009 13:52:07; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;40788
 11; 3974.1; 18-DEC-2009 13:56:37; Bright; 44.5; 32; 77Eps UMa ; 1.76; 11000;occ; 89; 0;40788
 12; 4135.2; 18-DEC-2009 13:59:19; Bright; 45.0; 39; 85Eta UMa ; 1.85; 24000;occ; 90; 0;40788
 13; 4341.1; 18-DEC-2009 14:02:45; Bright; 56.0; 180; 27Gam Boo ; 3.04; 8000;occ; 112; 0;40788
 14; 4537.2; 18-DEC-2009 14:06:01; Bright; 41.5; 83; ; 2.38; 11000;occ; 83; 0;40788
 15; 4742.3; 18-DEC-2009 14:09:26; Bright; 43.0; 111; 8Eta Boo ; 2.68; 6000;occ; 86; 0;40788
 16; 5354.8; 18-DEC-2009 14:19:38; Dark ; 56.0; 15; 67Alp Vir ; 0.98; 28000;occ; 112; 0;40788
 17; 5565.5; 18-DEC-2009 14:23:09; Dark ; 47.5; 169; 46Gam Hya ; 2.99; 4700;occ; 95; 0;40788
 18; 5728.0; 18-DEC-2009 14:25:51; Dark ; 53.0; 106; 9Bet Crv ; 2.65; 5600;occ; 106; 0;40788

19; 6000.5; 18-DEC-2009 14:30:24; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;40788
 20; 6100.8; 18-DEC-2009 14:32:04; Dark ; 41.0; 99; Del Cen ; 2.58; 26000;occ; 82; 0;40788
 21; 6338.6; 18-DEC-2009 14:36:02; Dark ; 49.0; 113; Mu Vel ; 2.69; 5000;occ; 98; 0;40788
 22; 6555.5; 18-DEC-2009 14:39:39; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40788
 23; 6642.2; 18-DEC-2009 14:41:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40788
 24; 6838.3; 18-DEC-2009 14:44:22; Dark ; 52.5; 34; Gam2Vel ; 1.79; 23000;occ; 105; 0;40788
 25; 6967.6; 18-DEC-2009 14:46:31; Dark ; 51.0; 70; Zet Pup ; 2.25; 39000;occ; 102; 0;40788
 26; 7124.2; 18-DEC-2009 14:49:08; Dark ; 52.0; 117; Pi Pup ; 2.71; 3800;occ; 104; 0;40788
 27; 7314.3; 18-DEC-2009 14:52:18; Dark ; 51.5; 23; 21Eps CMA ; 1.50; 26000;occ; 103; 0;40788
 28; 7419.3; 18-DEC-2009 14:54:03; Dark ; 52.0; 179; 240mi2CMA ; 3.03; 24000;occ; 104; 0;40788

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 2; 1558.9; 18-DEC-2009 14:56:58; Dark ; 61.0; 1; 9Alp CMA ; -1.44; 11000;occ; 122; 0;40789
 3; 1751.6; 18-DEC-2009 15:00:11; Dark ; 45.5; 7; 19Bet Ori ; 0.10; 14000;occ; 91; 0;40789
 4; 1881.8; 18-DEC-2009 15:02:21; Dark ; 45.0; 30; 46Eps Ori ; 1.69; 30000;occ; 90; 0;40789
 5; 2063.1; 18-DEC-2009 15:05:22; Dark ; 64.0; 14; 58Alp Ori ; 0.87; 3000;occ; 128; 0;40789
 6; 2188.6; 18-DEC-2009 15:07:28; Dark ; 45.5; 13; 87Alp Tau ; 0.87; 3800;occ; 91; 0;40789
 7; 2311.0; 18-DEC-2009 15:09:30; Bright; 43.0; 176; 23Zet Tau ; 3.02; 22000;occ; 86; 0;40789
 8; 2434.6; 18-DEC-2009 15:11:34; Bright; 43.0; 28; 12Bet Tau ; 1.65; 15200;occ; 86; 0;40789
 9; 2643.0; 18-DEC-2009 15:15:02; Bright; 42.5; 107; 37The Aur ; 2.65; 11000;occ; 85; 0;40789
 10; 2774.5; 18-DEC-2009 15:17:14; Bright; 44.0; 42; 34Bet Aur ; 1.90; 10200;occ; 88; 0;40789
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 12; 3974.0; 18-DEC-2009 15:37:13; Bright; 40.5; 32; 77Eps UMa ; 1.76; 11000;occ; 81; 0;40789
 13; 4135.1; 18-DEC-2009 15:39:54; Bright; 39.5; 39; 85Eta UMa ; 1.85; 24000;occ; 79; 0;40789
 14; 4341.2; 18-DEC-2009 15:43:21; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;40789
 15; 4537.6; 18-DEC-2009 15:46:37; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;40789
 16; 4742.7; 18-DEC-2009 15:50:02; Bright; 43.5; 111; 8Eta Boo ; 2.68; 6000;occ; 87; 0;40789
 17; 5355.7; 18-DEC-2009 16:00:15; Dark ; 52.0; 15; 67Alp Vir ; 0.98; 28000;occ; 104; 0;40789
 18; 5566.4; 18-DEC-2009 16:03:46; Dark ; 50.0; 169; 46Gam Hya ; 2.99; 4700;occ; 100; 0;40789
 19; 5729.3; 18-DEC-2009 16:06:29; Dark ; 55.0; 106; 9Bet Crv ; 2.65; 5600;occ; 110; 0;40789
 20; 6001.2; 18-DEC-2009 16:11:01; Dark ; 42.0; 64; Gam Cen ; 2.20; 10600;occ; 84; 0;40789
 21; 6101.6; 18-DEC-2009 16:12:41; Dark ; 42.5; 99; Del Cen ; 2.58; 26000;occ; 85; 0;40789
 22; 6339.6; 18-DEC-2009 16:16:39; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;40789
 23; 6556.2; 18-DEC-2009 16:20:16; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;40789
 24; 6643.0; 18-DEC-2009 16:21:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40789
 25; 6839.1; 18-DEC-2009 16:24:58; Dark ; 51.5; 34; Gam2Vel ; 1.79; 23000;occ; 103; 0;40789
 26; 6968.4; 18-DEC-2009 16:27:08; Dark ; 51.5; 70; Zet Pup ; 2.25; 39000;occ; 103; 0;40789
 27; 7125.0; 18-DEC-2009 16:29:44; Dark ; 52.0; 117; Pi Pup ; 2.71; 3800;occ; 104; 0;40789
 28; 7314.8; 18-DEC-2009 16:32:54; Dark ; 47.5; 23; 21Eps CMA ; 1.50; 26000;occ; 95; 0;40789

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1; 1278.8; 18-DEC-2009 16:32:54; Dark ; 52.5; 23; 21Eps CMA ; 1.50; 26000;occ; 105; 0;40790
 2; 1383.8; 18-DEC-2009 16:34:39; Dark ; 52.0; 179; 240mi2CMA ; 3.03; 24000;occ; 104; 0;40790
 3; 1559.0; 18-DEC-2009 16:37:34; Dark ; 60.5; 1; 9Alp CMA ; -1.44; 11000;occ; 121; 0;40790
 4; 1751.8; 18-DEC-2009 16:40:47; Dark ; 47.0; 7; 19Bet Ori ; 0.10; 14000;occ; 94; 0;40790
 5; 1882.0; 18-DEC-2009 16:42:57; Dark ; 46.5; 30; 46Eps Ori ; 1.69; 30000;occ; 93; 0;40790
 6; 2062.8; 18-DEC-2009 16:45:58; Dark ; 64.0; 14; 58Alp Ori ; 0.87; 3000;occ; 128; 0;40790
 7; 2188.4; 18-DEC-2009 16:48:04; Dark ; 48.0; 13; 87Alp Tau ; 0.87; 3800;occ; 96; 0;40790
 8; 2310.5; 18-DEC-2009 16:50:06; Bright; 41.0; 176; 23Zet Tau ; 3.02; 22000;occ; 82; 0;40790
 9; 2434.3; 18-DEC-2009 16:52:10; Bright; 43.0; 28; 12Bet Tau ; 1.65; 15200;occ; 86; 0;40790
 10; 2642.4; 18-DEC-2009 16:55:38; Bright; 43.0; 107; 37The Aur ; 2.65; 11000;occ; 86; 0;40790
 11; 2773.8; 18-DEC-2009 16:57:49; Bright; 42.5; 42; 34Bet Aur ; 1.90; 10200;occ; 85; 0;40790
 12; 3703.9; 18-DEC-2009 17:13:19; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;40790
 13; 3973.7; 18-DEC-2009 17:17:49; Bright; 63.0; 32; 77Eps UMa ; 1.76; 11000;occ; 126; 0;40790
 14; 4134.9; 18-DEC-2009 17:20:30; Bright; 38.5; 39; 85Eta UMa ; 1.85; 24000;occ; 77; 0;40790
 15; 4341.5; 18-DEC-2009 17:23:57; Bright; 56.0; 180; 27Gam Boo ; 3.04; 8000;occ; 112; 0;40790
 16; 4537.8; 18-DEC-2009 17:27:13; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;40790
 17; 4743.0; 18-DEC-2009 17:30:38; Bright; 50.0; 111; 8Eta Boo ; 2.68; 6000;occ; 100; 0;40790
 18; 5356.5; 18-DEC-2009 17:40:52; Dark ; 57.5; 15; 67Alp Vir ; 0.98; 28000;occ; 115; 0;40790
 19; 5567.2; 18-DEC-2009 17:44:23; Dark ; 46.0; 169; 46Gam Hya ; 2.99; 4700;occ; 92; 0;40790
 20; 5730.6; 18-DEC-2009 17:47:06; Dark ; 54.0; 106; 9Bet Crv ; 2.65; 5600;occ; 108; 0;40790
 21; 6001.9; 18-DEC-2009 17:51:37; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;40790
 22; 6102.3; 18-DEC-2009 17:53:18; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;40790
 23; 6340.5; 18-DEC-2009 17:57:16; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40790
 24; 6556.8; 18-DEC-2009 18:00:52; Dark ; 43.0; 71; Iot Car ; 2.25; 7700;occ; 86; 0;40790
 25; 6643.7; 18-DEC-2009 18:02:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40790
 26; 6839.8; 18-DEC-2009 18:05:35; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;40790
 27; 6969.2; 18-DEC-2009 18:07:45; Dark ; 50.0; 70; Zet Pup ; 2.25; 39000;occ; 100; 0;40790
 28; 7125.4; 18-DEC-2009 18:10:21; Dark ; 32.5; 117; Pi Pup ; 2.71; 3800;occ; 65; 0;40790

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 3; 1384.3; 18-DEC-2009 18:15:16; Dark ; 49.0; 179; 240mi2CMa ; 3.03; 24000;occ; 98; 0;40791
 4; 1559.3; 18-DEC-2009 18:18:11; Dark ; 60.5; 1; 9Alp CMa ; -1.44; 11000;occ; 121; 0;40791
 5; 1751.8; 18-DEC-2009 18:21:23; Dark ; 47.5; 7; 19Bet Ori ; 0.10; 14000;occ; 95; 0;40791
 6; 1881.9; 18-DEC-2009 18:23:33; Dark ; 46.5; 30; 46Eps Ori ; 1.69; 30000;occ; 93; 0;40791
 7; 2062.6; 18-DEC-2009 18:26:34; Dark ; 61.0; 14; 58Alp Ori ; 0.87; 3000;occ; 122; 0;40791
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 9; 2310.3; 18-DEC-2009 18:30:42; Bright; 44.5; 176; 23Zet Tau ; 3.02; 22000;occ; 89; 0;40791
 10; 2434.0; 18-DEC-2009 18:32:45; Bright; 42.5; 28; 12Bet Tau ; 1.65; 15200;occ; 85; 0;40791
 11; 2642.0; 18-DEC-2009 18:36:13; Bright; 43.5; 107; 37The Aur ; 2.65; 11000;occ; 87; 0;40791
 12; 2773.4; 18-DEC-2009 18:38:25; Bright; 41.5; 42; 34Bet Aur ; 1.90; 10200;occ; 83; 0;40791
 13; 3703.5; 18-DEC-2009 18:53:55; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;40791
 14; 3973.5; 18-DEC-2009 18:58:25; Bright; 44.5; 32; 77Eps UMa ; 1.76; 11000;occ; 89; 0;40791
 15; 4134.7; 18-DEC-2009 19:01:06; Bright; 52.0; 39; 85Eta UMa ; 1.85; 24000;occ; 104; 0;40791
 16; 4341.6; 18-DEC-2009 19:04:33; Bright; 35.5; 180; 27Gam Boo ; 3.04; 8000;occ; 71; 0;40791
 17; 4537.8; 18-DEC-2009 19:07:49; Bright; 37.5; 83; ; 2.38; 11000;occ; 75; 0;40791
 18; 4743.5; 18-DEC-2009 19:11:15; Bright; 43.0; 111; 8Eta Boo ; 2.68; 6000;occ; 86; 0;40791
 19; 5357.3; 18-DEC-2009 19:21:29; Dark ; 50.0; 15; 67Alp Vir ; 0.98; 28000;occ; 100; 0;40791
 20; 5567.9; 18-DEC-2009 19:24:59; Dark ; 44.5; 169; 46Gam Hya ; 2.99; 4700;occ; 89; 0;40791
 21; 5731.7; 18-DEC-2009 19:27:43; Dark ; 53.0; 106; 9Bet Crv ; 2.65; 5600;occ; 106; 0;40791
 22; 6002.4; 18-DEC-2009 19:32:14; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;40791
 23; 6102.9; 18-DEC-2009 19:33:54; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;40791
 24; 6341.4; 18-DEC-2009 19:37:53; Dark ; 55.5; 113; Mu Vel ; 2.69; 5000;occ; 111; 0;40791
 25; 6557.4; 18-DEC-2009 19:41:29; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40791
 26; 6644.4; 18-DEC-2009 19:42:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40791
 27; 6840.4; 18-DEC-2009 19:46:12; Dark ; 49.5; 34; Gam2Vel ; 1.79; 23000;occ; 99; 0;40791

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 3; -300.9; 19-DEC-2009 00:29:34; Dark ; 64.0; 106; 9Bet Crv ; 2.65; 5600;occ; 128; 0;40794
 4; -31.6; 19-DEC-2009 00:34:03; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;40794
 5; 69.1; 19-DEC-2009 00:35:44; Dark ; 43.5; 99; Del Cen ; 2.58; 26000;occ; 87; 0;40795
 6; 308.0; 19-DEC-2009 00:39:43; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;40795
 7; 523.3; 19-DEC-2009 00:43:18; Dark ; 47.0; 71; Iot Car ; 2.25; 7700;occ; 94; 0;40795
 8; 610.6; 19-DEC-2009 00:44:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40795
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 11; 1091.1; 19-DEC-2009 00:52:46; Dark ; 49.5; 117; Pi Pup ; 2.71; 3800;occ; 99; 0;40795
 12; 1280.7; 19-DEC-2009 00:55:56; Dark ; 50.0; 23; 21Eps CMa ; 1.50; 26000;occ; 100; 0;40795
 13; 1385.0; 19-DEC-2009 00:57:40; Dark ; 53.5; 179; 240mi2CMa ; 3.03; 24000;occ; 107; 0;40795
 14; 1559.4; 19-DEC-2009 01:00:34; Dark ; 60.0; 1; 9Alp CMa ; -1.44; 11000;occ; 120; 0;40795
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 16; 1881.3; 19-DEC-2009 01:05:56; Dark ; 47.0; 30; 46Eps Ori ; 1.69; 30000;occ; 94; 0;40795
 17; 2061.4; 19-DEC-2009 01:08:56; Dark ; 59.5; 14; 58Alp Ori ; 0.87; 3000;occ; 119; 0;40795
 18; 2188.2; 19-DEC-2009 01:11:03; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;40795
 19; 2308.7; 19-DEC-2009 01:13:04; Bright; 43.0; 176; 23Zet Tau ; 3.02; 22000;occ; 86; 0;40795
 20; 2432.7; 19-DEC-2009 01:15:08; Bright; 42.5; 28; 12Bet Tau ; 1.65; 15200;occ; 85; 0;40795
 21; 2639.5; 19-DEC-2009 01:18:34; Bright; 42.0; 107; 37The Aur ; 2.65; 11000;occ; 84; 0;40795
 22; 2727.1; 19-DEC-2009 01:20:02; Bright; 44.5; 6; 13Alp Aur ; 0.08; 3400;occ; 89; 0;40795
 23; 3703.2; 19-DEC-2009 01:36:18; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;40795
 24; 3972.3; 19-DEC-2009 01:40:47; Bright; 55.5; 32; 77Eps UMa ; 1.76; 11000;occ; 111; 0;40795
 25; 4134.4; 19-DEC-2009 01:43:29; Bright; 53.5; 39; 85Eta UMa ; 1.85; 24000;occ; 107; 0;40795
 26; 4341.7; 19-DEC-2009 01:46:57; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;40795
 27; 4538.5; 19-DEC-2009 01:50:13; Bright; 42.0; 83; ; 2.38; 11000;occ; 84; 0;40795
 28; 4744.6; 19-DEC-2009 01:53:40; Bright; 42.5; 111; 8Eta Boo ; 2.68; 6000;occ; 85; 0;40795

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 13; 1385.5; 19-DEC-2009 02:38:16; Dark ; 51.0; 179; 240mi2CMa ; 3.03; 24000;occ; 102; 0;40796
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 13; 524.4; 19-DEC-2009 04:04:31; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40797
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 29; 3703.6; 19-DEC-2009 04:57:30; Bright; 21.5; 60; 7Bet UMi ; 2.08; 3950;occ; 43; 0;40797

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 4;-1693.5; 19-DEC-2009 05:08:09; Bright; 45.0; 180; 27Gam Boo ; 3.04; 8000;occ; 90; 0;40797
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 6;-1290.6; 19-DEC-2009 05:14:52; Bright; 43.5; 111; 8Eta Boo ; 2.68; 6000;occ; 87; 0;40797
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 13; 525.1; 19-DEC-2009 05:45:08; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;40798
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 19; 1386.2; 19-DEC-2009 05:59:29; Dark ; 51.5; 179; 240mi2CMa ; 3.03; 24000;occ; 103; 0;40798
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3; 1285.4; 19-DEC-2009 21:03:12; Dark ; 50.5; 23; 21Eps CMa ; 1.50; 26000;occ; 101; 0;40807
4; 1388.8; 19-DEC-2009 21:04:55; Dark ; 50.5; 179; 240mi2CMa ; 3.03; 24000;occ; 101; 0;40807
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6; 1752.7; 19-DEC-2009 21:10:59; Dark ; 45.5; 7; 19Bet Ori ; 0.10; 14000;occ; 91; 0;40807
7; 1880.8; 19-DEC-2009 21:13:07; Dark ; 47.0; 30; 46Eps Ori ; 1.69; 30000;occ; 94; 0;40807
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9; 2188.1; 19-DEC-2009 21:18:14; Dark ; 47.0; 13; 87Alp Tau ; 0.87; 3800;occ; 94; 0;40807
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11; 2429.0; 19-DEC-2009 21:22:15; Bright; 43.0; 28; 12Bet Tau ; 1.65; 15200;occ; 86; 0;40807
12; 2633.4; 19-DEC-2009 21:25:40; Bright; 63.0; 107; 37The Aur ; 2.65; 11000;occ; 126; 0;40807
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17; 4342.6; 19-DEC-2009 21:54:09; Bright; 53.0; 180; 27Gam Boo ; 3.04; 8000;occ; 106; 0;40807
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5; 78.6; 19-DEC-2009 22:23:41; Dark ; 42.0; 99; Del Cen ; 2.58; 26000;occ; 84; 0;40808
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19; 2304.9; 19-DEC-2009 23:00:47; Bright; 43.0; 176; 23Zet Tau ; 3.02; 22000;occ; 86; 0;40808
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23; 3702.7; 19-DEC-2009 23:24:05; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;40808
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26; 4343.0; 19-DEC-2009 23:34:45; Bright; 50.5; 180; 27Gam Boo ; 3.04; 8000;occ; 101; 0;40808
27; 4540.8; 19-DEC-2009 23:38:03; Bright; 55.0; 83; ; 2.38; 11000;occ; 110; 0;40808
28; 4749.0; 19-DEC-2009 23:41:31; Bright; 63.0; 111; 8Eta Boo ; 2.68; 6000;occ; 126; 0;40808
29; 5371.3; 19-DEC-2009 23:51:53; Dark ; 45.0; 15; 67Alp Vir ; 0.98; 28000;occ; 90; 0;40808
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6; 320.8; 20-DEC-2009 00:08:19; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40809
7; 531.7; 20-DEC-2009 00:11:50; Dark ; 49.0; 71; Iot Car ; 2.25; 7700;occ; 98; 0;40809
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9;	3701.2;	22-DEC-2009	15:06:49;	Bright;	37.5;	60;	7Bet UMi	; 2.08;	3950;occ;	75;	0;40846
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11;	4129.9;	22-DEC-2009	15:13:58;	Bright;	40.5;	39;	85Eta UMa	; 1.85;	24000;occ;	81;	0;40846
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13;	4548.0;	22-DEC-2009	15:20:56;	Bright;	36.5;	83;		; 2.38;	11000;occ;	73;	0;40846
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16;	5682.5;	22-DEC-2009	15:39:50;	Dark	; 47.5;	54;	5The Cen	; 2.06;	4500;occ;	95;	0;40846
17;	5800.7;	22-DEC-2009	15:41:48;	Dark	; 55.5;	106;	9Bet Crv	; 2.65;	5600;occ;	111;	0;40846
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19;	6139.3;	22-DEC-2009	15:47:27;	Dark	; 49.5;	26;	Gam Cru	; 1.62;	2900;occ;	99;	0;40846
20;	6391.4;	22-DEC-2009	15:51:39;	Dark	; 46.0;	113;	Mu Vel	; 2.69;	5000;occ;	92;	0;40846
21;	6590.7;	22-DEC-2009	15:54:58;	Dark	; 40.5;	71;	Iot Car	; 2.25;	7700;occ;	81;	0;40846
22;	6683.2;	22-DEC-2009	15:56:31;	Dark	; 59.5;	0;		; 0.00;	0;occ;	119;	0;40846
23;	6772.6;	22-DEC-2009	15:58:00;	Dark	; 66.5;	65;	Lam Vel	; 2.20;	4400;occ;	133;	0;40846
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25;	7007.1;	22-DEC-2009	16:01:55;	Dark	; 49.5;	70;	Zet Pup	; 2.25;	39000;occ;	99;	0;40846
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9;	2292.7;	22-DEC-2009	21:25:44;	Bright;	44.0;	176;	23Zet Tau	; 3.02;	22000;occ;	88;	0;40850
10;	2417.5;	22-DEC-2009	21:27:49;	Bright;	43.0;	28;	12Bet Tau	; 1.65;	15200;occ;	86;	0;40850
11;	2612.7;	22-DEC-2009	21:31:04;	Bright;	42.5;	107;	37The Aur	; 2.65;	11000;occ;	85;	0;40850
12;	2712.8;	22-DEC-2009	21:32:44;	Bright;	47.0;	6;	13Alp Aur	; 0.08;	3400;occ;	94;	0;40850
13;	3700.9;	22-DEC-2009	21:49:12;	Bright;	41.0;	60;	7Bet UMi	; 2.08;	3950;occ;	82;	0;40850
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16;	4345.9;	22-DEC-2009	21:59:58;	Bright;	57.0;	180;	27Gam Boo	; 3.04;	8000;occ;	114;	0;40850
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11;	1300.9;	22-DEC-2009	22:49:48;	Dark	; 50.5;	23;	21Eps CMA	; 1.50;	26000;occ;	101;	0;40851
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13;	1566.0;	22-DEC-2009	22:54:13;	Dark	; 53.0;	1;	9Alp CMA	; -1.44;	11000;occ;	106;	0;40851
14;	1755.6;	22-DEC-2009	22:57:23;	Dark	; 46.5;	7;	19Bet Ori	; 0.10;	14000;occ;	93;	0;40851
15;	1879.0;	22-DEC-2009	22:59:26;	Dark	; 45.0;	30;	46Eps Ori	; 1.69;	30000;occ;	90;	0;40851
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19;	2612.3;	22-DEC-2009	23:11:40;	Bright;	61.0;	107;	37The Aur	; 2.65;	11000;occ;	122;	0;40851
20;	2712.6;	22-DEC-2009	23:13:20;	Bright;	44.5;	6;	13Alp Aur	; 0.08;	3400;occ;	89;	0;40851
21;	3701.1;	22-DEC-2009	23:29:49;	Bright;	38.0;	60;	7Bet UMi	; 2.08;	3950;occ;	76;	0;40851
22;	3956.9;	22-DEC-2009	23:34:04;	Bright;	42.5;	32;	77Eps UMa	; 1.76;	11000;occ;	85;	0;40851
23;	4129.1;	22-DEC-2009	23:36:57;	Bright;	61.0;	39;	85Eta UMa	; 1.85;	24000;occ;	122;	0;40851
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 5; 359.8; 23-DEC-2009 00:14:43; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;40852
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 7; 664.0; 23-DEC-2009 00:19:47; Dark ; 51.5; 41; Eps Car ; 1.86; 4100;occ; 103; 0;40852
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 9; 974.1; 23-DEC-2009 00:24:57; Dark ; 49.5; 70; Zet Pup ; 2.25; 39000;occ; 99; 0;40852
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 12; 1401.5; 23-DEC-2009 00:32:05; Dark ; 49.0; 179; 240mi2CMA ; 3.03; 24000;occ; 98; 0;40852
 13; 1566.1; 23-DEC-2009 00:34:49; Dark ; 56.5; 1; 9Alp CMA ; -1.44; 11000;occ; 113; 0;40852
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 15; 1879.0; 23-DEC-2009 00:40:02; Dark ; 46.5; 30; 46Eps Ori ; 1.69; 30000;occ; 93; 0;40852
 16; 2048.4; 23-DEC-2009 00:42:52; Dark ; 57.5; 14; 58Alp Ori ; 0.87; 3000;occ; 115; 0;40852
 17; 2292.2; 23-DEC-2009 00:46:56; Bright; 42.5; 176; 23Zet Tau ; 3.02; 22000;occ; 85; 0;40852
 18; 2417.0; 23-DEC-2009 00:49:00; Bright; 52.5; 28; 12Bet Tau ; 1.65; 15200;occ; 105; 0;40852
 19; 2611.8; 23-DEC-2009 00:52:15; Bright; 42.0; 107; 37The Aur ; 2.65; 11000;occ; 84; 0;40852
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 22; 3956.9; 23-DEC-2009 01:14:40; Bright; 47.5; 32; 77Eps UMa ; 1.76; 11000;occ; 95; 0;40852
 23; 4129.0; 23-DEC-2009 01:17:32; Bright; 61.0; 39; 85Eta UMa ; 1.85; 24000;occ; 122; 0;40852
 24; 4346.1; 23-DEC-2009 01:21:09; Bright; 37.0; 180; 27Gam Boo ; 3.04; 8000;occ; 74; 0;40852
 25; 4549.0; 23-DEC-2009 01:24:32; Bright; 56.0; 83; ; 2.38; 11000;occ; 112; 0;40852
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 12; 3958.5; 22-DEC-2009 16:51:42; Bright; 64.0; 32; 77Eps UMa ; 1.76; 11000;occ; 128; 0;40847
 13; 4129.7; 22-DEC-2009 16:54:33; Bright; 43.5; 39; 85Eta UMa ; 1.85; 24000;occ; 87; 0;40847
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 17; 5406.6; 22-DEC-2009 17:15:50; Dark ; 55.5; 15; 67Alp Vir ; 0.98; 28000;occ; 111; 0;40847
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 24; 6683.9; 22-DEC-2009 17:37:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40847
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 4; 1400.7; 22-DEC-2009 17:49:40; Dark ; 49.5; 179; 240mi2CMA ; 3.03; 24000;occ; 99; 0;40848
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13; 3701.2; 22-DEC-2009 18:28:01; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;40848
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 17; 4548.3; 22-DEC-2009 18:42:08; Bright; 37.5; 83; ; 2.38; 11000;occ; 75; 0;40848
 18; 4764.0; 22-DEC-2009 18:45:44; Bright; 65.0; 111; 8Eta Boo ; 2.68; 6000;occ; 130; 0;40848
 19; 5407.5; 22-DEC-2009 18:56:27; Dark ; 55.0; 15; 67Alp Vir ; 0.98; 28000;occ; 110; 0;40848
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 22; 6041.7; 22-DEC-2009 19:07:01; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 81; 0;40848
 23; 6140.3; 22-DEC-2009 19:08:40; Dark ; 43.0; 26; Gam Cru ; 1.62; 2900;occ; 86; 0;40848
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 27; 6774.3; 22-DEC-2009 19:19:14; Dark ; 50.0; 65; Lam Vel ; 2.20; 4400;occ; 100; 0;40848
 28; 6877.3; 22-DEC-2009 19:20:57; Dark ; 47.5; 34; Gam2Vel ; 1.79; 23000;occ; 95; 0;40848

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19; 6400.3; 23-DEC-2009 08:37:47; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;40856
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23; 6704.7; 23-DEC-2009 15:25:15; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0;40860
24; 6884.9; 23-DEC-2009 15:28:16; Dark ; 47.5; 34; Gam2Vel ; 1.79; 23000;occ; 95; 0;40860
25; 7016.0; 23-DEC-2009 15:30:27; Dark ; 47.0; 70; Zet Pup ; 2.25; 39000;occ; 94; 0;40860
26; 7159.1; 23-DEC-2009 15:32:50; Dark ; 49.0; 117; Pi Pup ; 2.71; 3800;occ; 98; 0;40860

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3; 1404.2; 23-DEC-2009 15:37:31; Dark ; 47.5; 179; 240mi2CMa ; 3.03; 24000;occ; 95; 0;40861
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9; 2415.1; 23-DEC-2009 15:54:22; Bright; 41.0; 28; 12Bet Tau ; 1.65; 15200;occ; 82; 0;40861
10; 2607.7; 23-DEC-2009 15:57:34; Bright; 41.0; 107; 37The Aur ; 2.65; 11000;occ; 82; 0;40861
11; 2710.4; 23-DEC-2009 15:59:17; Bright; 44.0; 6; 13Alp Aur ; 0.08; 3400;occ; 88; 0;40861
12; 3700.5; 23-DEC-2009 16:15:47; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;40861
13; 3954.3; 23-DEC-2009 16:20:01; Bright; 65.0; 32; 77Eps UMa ; 1.76; 11000;occ; 130; 0;40861
14; 4128.1; 23-DEC-2009 16:22:55; Bright; 44.5; 39; 85Eta UMa ; 1.85; 24000;occ; 89; 0;40861
15; 4347.2; 23-DEC-2009 16:26:34; Bright; 46.5; 180; 27Gam Boo ; 3.04; 8000;occ; 93; 0;40861
16; 4550.6; 23-DEC-2009 16:29:57; Bright; 38.0; 83; ; 2.38; 11000;occ; 76; 0;40861
17; 4769.7; 23-DEC-2009 16:33:36; Bright; 46.5; 111; 8Eta Boo ; 2.68; 6000;occ; 93; 0;40861
18; 5419.9; 23-DEC-2009 16:44:27; Dark ; 56.0; 15; 67Alp Vir ; 0.98; 28000;occ; 112; 0;40861
19; 5690.8; 23-DEC-2009 16:48:57; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;40861
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21; 6050.9; 23-DEC-2009 16:54:58; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;40861
22; 6138.6; 23-DEC-2009 16:56:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40861
23; 6404.9; 23-DEC-2009 17:00:52; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40861
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25; 6705.3; 23-DEC-2009 17:05:52; Dark ; 47.0; 41; Eps Car ; 1.86; 4100;occ; 94; 0;40861
26; 6885.5; 23-DEC-2009 17:08:52; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;40861
27; 7016.6; 23-DEC-2009 17:11:03; Dark ; 49.0; 70; Zet Pup ; 2.25; 39000;occ; 98; 0;40861
28; 7160.0; 23-DEC-2009 17:13:27; Dark ; 3.0; 117; Pi Pup ; 2.71; 3800;occ; 6; 0;40861

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4; 1404.4; 23-DEC-2009 17:18:07; Dark ; 50.0; 179; 240mi2CMa ; 3.03; 24000;occ; 100; 0;40862
5; 1567.5; 23-DEC-2009 17:20:50; Dark ; 56.0; 1; 9Alp CMa ; -1.44; 11000;occ; 112; 0;40862
6; 1757.0; 23-DEC-2009 17:24:00; Dark ; 46.0; 7; 19Bet Ori ; 0.10; 14000;occ; 92; 0;40862
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8; 2046.5; 23-DEC-2009 17:28:49; Dark ; 60.0; 14; 58Alp Ori ; 0.87; 3000;occ; 120; 0;40862
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10; 2414.8; 23-DEC-2009 17:34:57; Bright; 41.0; 28; 12Bet Tau ; 1.65; 15200;occ; 82; 0;40862
11; 2607.5; 23-DEC-2009 17:38:10; Bright; 42.5; 107; 37The Aur ; 2.65; 11000;occ; 85; 0;40862
12; 2710.4; 23-DEC-2009 17:39:53; Bright; 42.0; 6; 13Alp Aur ; 0.08; 3400;occ; 84; 0;40862
13; 3700.4; 23-DEC-2009 17:56:23; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;40862
14; 3954.0; 23-DEC-2009 18:00:37; Bright; 46.5; 32; 77Eps UMa ; 1.76; 11000;occ; 93; 0;40862
15; 4128.0; 23-DEC-2009 18:03:31; Bright; 42.5; 39; 85Eta UMa ; 1.85; 24000;occ; 85; 0;40862
16; 4347.2; 23-DEC-2009 18:07:10; Bright; 37.0; 180; 27Gam Boo ; 3.04; 8000;occ; 74; 0;40862
17; 4550.7; 23-DEC-2009 18:10:33; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;40862

18; 4769.7; 23-DEC-2009 18:14:12; Bright; 66.0; 111; 8Eta Boo ; 2.68; 6000;occ; 132; 0;40862
 19; 5420.9; 23-DEC-2009 18:25:04; Dark ; 55.5; 15; 67Alp Vir ; 0.98; 28000;occ; 111; 0;40862
 20; 5691.1; 23-DEC-2009 18:29:34; Dark ; 44.5; 54; 5The Cen ; 2.06; 4500;occ; 89; 0;40862
 21; 5822.3; 23-DEC-2009 18:31:45; Dark ; 30.0; 106; 9Bet Crv ; 2.65; 5600;occ; 60; 0;40862
 22; 6051.6; 23-DEC-2009 18:35:34; Dark ; 42.5; 64; Gam Cen ; 2.20; 10600;occ; 85; 0;40862
 23; 6139.5; 23-DEC-2009 18:37:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40862
 24; 6405.9; 23-DEC-2009 18:41:29; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;40862
 25; 6600.0; 23-DEC-2009 18:44:43; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40862
 26; 6705.8; 23-DEC-2009 18:46:28; Dark ; 56.0; 41; Eps Car ; 1.86; 4100;occ; 112; 0;40862
 27; 6886.0; 23-DEC-2009 18:49:29; Dark ; 47.5; 34; Gam2Vel ; 1.79; 23000;occ; 95; 0;40862

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 3; 1124.5; 23-DEC-2009 18:54:03; Dark ; 49.5; 117; Pi Pup ; 2.71; 3800;occ; 99; 0;40863
 4; 1305.3; 23-DEC-2009 18:57:04; Dark ; 49.5; 23; 21Eps CMA ; 1.50; 26000;occ; 99; 0;40863
 5; 1404.8; 23-DEC-2009 18:58:43; Dark ; 48.5; 179; 240mi2CMA ; 3.03; 24000;occ; 97; 0;40863
 6; 1567.7; 23-DEC-2009 19:01:26; Dark ; 53.5; 1; 9Alp CMA ; -1.44; 11000;occ; 107; 0;40863
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 11; 2414.6; 23-DEC-2009 19:15:33; Bright; 40.5; 28; 12Bet Tau ; 1.65; 15200;occ; 81; 0;40863
 12; 2607.1; 23-DEC-2009 19:18:46; Bright; 42.0; 107; 37The Aur ; 2.65; 11000;occ; 84; 0;40863
 13; 2710.1; 23-DEC-2009 19:20:29; Bright; 43.0; 6; 13Alp Aur ; 0.08; 3400;occ; 86; 0;40863
 14; 3700.2; 23-DEC-2009 19:36:59; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;40863
 15; 3953.7; 23-DEC-2009 19:41:12; Bright; 47.0; 32; 77Eps UMA ; 1.76; 11000;occ; 94; 0;40863
 16; 4127.8; 23-DEC-2009 19:44:06; Bright; 61.0; 39; 85Eta UMA ; 1.85; 24000;occ; 122; 0;40863
 17; 4347.0; 23-DEC-2009 19:47:46; Bright; 58.0; 180; 27Gam Boo ; 3.04; 8000;occ; 116; 0;40863
 18; 4550.9; 23-DEC-2009 19:51:10; Bright; 39.0; 83; ; 2.38; 11000;occ; 78; 0;40863
 19; 4770.0; 23-DEC-2009 19:54:49; Bright; 66.0; 111; 8Eta Boo ; 2.68; 6000;occ; 132; 0;40863
 20; 5421.9; 23-DEC-2009 20:05:41; Dark ; 58.0; 15; 67Alp Vir ; 0.98; 28000;occ; 116; 0;40863
 21; 5691.8; 23-DEC-2009 20:10:11; Dark ; 49.5; 54; 5The Cen ; 2.06; 4500;occ; 99; 0;40863
 22; 5823.8; 23-DEC-2009 20:12:23; Dark ; 30.0; 106; 9Bet Crv ; 2.65; 5600;occ; 60; 0;40863
 23; 6052.0; 23-DEC-2009 20:16:11; Dark ; 48.0; 64; Gam Cen ; 2.20; 10600;occ; 96; 0;40863
 24; 6140.3; 23-DEC-2009 20:17:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40863
 25; 6406.8; 23-DEC-2009 20:22:05; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;40863
 26; 6600.5; 23-DEC-2009 20:25:19; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40863
 27; 6706.2; 23-DEC-2009 20:27:05; Dark ; 55.5; 41; Eps Car ; 1.86; 4100;occ; 111; 0;40863
 28; 6886.5; 23-DEC-2009 20:30:05; Dark ; 17.0; 34; Gam2Vel ; 1.79; 23000;occ; 34; 0;40863

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 3; -224.5; 24-DEC-2009 01:13:58; Dark ; 45.5; 123; Iot Cen ; 2.75; 10200;occ; 91; 0;40866
 4; 18.5; 24-DEC-2009 01:18:01; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;40867
 5; 107.0; 24-DEC-2009 01:19:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40867
 6; 373.5; 24-DEC-2009 01:23:56; Dark ; 50.5; 113; Mu Vel ; 2.69; 5000;occ; 101; 0;40867
 7; 566.3; 24-DEC-2009 01:27:09; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;40867
 8; 671.7; 24-DEC-2009 01:28:54; Dark ; 50.0; 41; Eps Car ; 1.86; 4100;occ; 100; 0;40867
 9; 852.4; 24-DEC-2009 01:31:55; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;40867
 10; 983.8; 24-DEC-2009 01:34:06; Dark ; 51.5; 70; Zet Pup ; 2.25; 39000;occ; 103; 0;40867
 11; 1126.1; 24-DEC-2009 01:36:28; Dark ; 49.5; 117; Pi Pup ; 2.71; 3800;occ; 99; 0;40867
 12; 1306.6; 24-DEC-2009 01:39:29; Dark ; 49.0; 23; 21Eps CMA ; 1.50; 26000;occ; 98; 0;40867
 13; 1405.7; 24-DEC-2009 01:41:08; Dark ; 47.0; 179; 240mi2CMA ; 3.03; 24000;occ; 94; 0;40867
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 15; 1757.2; 24-DEC-2009 01:46:59; Dark ; 44.5; 7; 19Bet Ori ; 0.10; 14000;occ; 89; 0;40867
 16; 1878.9; 24-DEC-2009 01:49:01; Dark ; 44.5; 30; 46Eps Ori ; 1.69; 30000;occ; 89; 0;40867
 17; 2045.7; 24-DEC-2009 01:51:48; Dark ; 53.5; 14; 58Alp Ori ; 0.87; 3000;occ; 107; 0;40867
 18; 2288.8; 24-DEC-2009 01:55:51; Bright; 42.0; 176; 23Zet Tau ; 3.02; 22000;occ; 84; 0;40867
 19; 2413.3; 24-DEC-2009 01:57:56; Bright; 42.5; 28; 12Bet Tau ; 1.65; 15200;occ; 85; 0;40867
 20; 2605.2; 24-DEC-2009 02:01:07; Bright; 40.5; 107; 37The Aur ; 2.65; 11000;occ; 81; 0;40867
 21; 2709.0; 24-DEC-2009 02:02:51; Bright; 42.0; 6; 13Alp Aur ; 0.08; 3400;occ; 84; 0;40867
 22; 3699.8; 24-DEC-2009 02:19:22; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;40867
 23; 3952.3; 24-DEC-2009 02:23:35; Bright; 47.0; 32; 77Eps UMA ; 1.76; 11000;occ; 94; 0;40867
 24; 4127.1; 24-DEC-2009 02:26:29; Bright; 53.5; 39; 85Eta UMA ; 1.85; 24000;occ; 107; 0;40867

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 2; -1688.6; 24-DEC-2009 02:30:10; Bright; 58.0; 180; 27Gam Boo ; 3.04; 8000;occ; 116; 0;40867
 3; -1483.9; 24-DEC-2009 02:33:34; Bright; 39.0; 83; ; 2.38; 11000;occ; 78; 0;40867

4; -1264.3; 24-DEC-2009 02:37:14; Bright; 67.0; 111; 8Eta Boo ; 2.68; 6000;occ; 134; 0;40867
5; -610.0; 24-DEC-2009 02:48:08; Dark ; 62.5; 15; 67Alp Vir ; 0.98; 28000;occ; 125; 0;40867
6; -342.0; 24-DEC-2009 02:52:36; Dark ; 43.0; 54; 5The Cen ; 2.06; 4500;occ; 86; 0;40867
7; -223.9; 24-DEC-2009 02:54:34; Dark ; 42.5; 123; Iot Cen ; 2.75; 10200;occ; 85; 0;40867
8; 19.2; 24-DEC-2009 02:58:37; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;40868
9; 107.9; 24-DEC-2009 03:00:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40868
10; 374.6; 24-DEC-2009 03:04:33; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40868
11; 566.9; 24-DEC-2009 03:07:45; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;40868
12; 672.3; 24-DEC-2009 03:09:31; Dark ; 44.0; 41; Eps Car ; 1.86; 4100;occ; 88; 0;40868
13; 852.9; 24-DEC-2009 03:12:31; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;40868
14; 984.4; 24-DEC-2009 03:14:43; Dark ; 48.5; 70; Zet Pup ; 2.25; 39000;occ; 97; 0;40868
15; 1126.6; 24-DEC-2009 03:17:05; Dark ; 49.0; 117; Pi Pup ; 2.71; 3800;occ; 98; 0;40868
16; 1306.7; 24-DEC-2009 03:20:05; Dark ; 49.5; 23; 21Eps CMa ; 1.50; 26000;occ; 99; 0;40868
17; 1406.1; 24-DEC-2009 03:21:44; Dark ; 49.5; 179; 240mi2CMa ; 3.03; 24000;occ; 99; 0;40868
18; 1568.0; 24-DEC-2009 03:24:26; Dark ; 54.0; 1; 9Alp CMa ; -1.44; 11000;occ; 108; 0;40868
19; 1757.4; 24-DEC-2009 03:27:36; Dark ; 45.5; 7; 19Bet Ori ; 0.10; 14000;occ; 91; 0;40868
20; 1878.9; 24-DEC-2009 03:29:37; Dark ; 44.5; 30; 46Eps Ori ; 1.69; 30000;occ; 89; 0;40868
21; 2045.8; 24-DEC-2009 03:32:24; Dark ; 56.5; 14; 58Alp Ori ; 0.87; 3000;occ; 113; 0;40868
22; 2288.7; 24-DEC-2009 03:36:27; Bright; 41.5; 176; 23Zet Tau ; 3.02; 22000;occ; 83; 0;40868
23; 2413.4; 24-DEC-2009 03:38:32; Bright; 40.5; 28; 12Bet Tau ; 1.65; 15200;occ; 81; 0;40868
24; 2604.8; 24-DEC-2009 03:41:43; Bright; 42.0; 107; 37The Aur ; 2.65; 11000;occ; 84; 0;40868
25; 2709.1; 24-DEC-2009 03:43:27; Bright; 42.0; 6; 13Alp Aur ; 0.08; 3400;occ; 84; 0;40868

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3; -1908.7; 24-DEC-2009 04:07:05; Bright; 61.0; 39; 85Eta UMa ; 1.85; 24000;occ; 122; 0;40868
4; -1688.7; 24-DEC-2009 04:10:45; Bright; 58.0; 180; 27Gam Boo ; 3.04; 8000;occ; 116; 0;40868
5; -1483.9; 24-DEC-2009 04:14:10; Bright; 39.5; 83; ; 2.38; 11000;occ; 79; 0;40868
6; -1263.8; 24-DEC-2009 04:17:50; Bright; 67.0; 111; 8Eta Boo ; 2.68; 6000;occ; 134; 0;40868
7; -739.8; 24-DEC-2009 04:26:34; Bright; 43.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 86; 0;40868
8; -609.2; 24-DEC-2009 04:28:45; Dark ; 57.0; 15; 67Alp Vir ; 0.98; 28000;occ; 114; 0;40868
9; -341.3; 24-DEC-2009 04:33:13; Dark ; 46.0; 54; 5The Cen ; 2.06; 4500;occ; 92; 0;40868
10; -223.0; 24-DEC-2009 04:35:11; Dark ; 42.0; 123; Iot Cen ; 2.75; 10200;occ; 84; 0;40868
11; 20.0; 24-DEC-2009 04:39:14; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 81; 0;40869
12; 108.7; 24-DEC-2009 04:40:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40869
13; 375.4; 24-DEC-2009 04:45:10; Dark ; 56.0; 113; Mu Vel ; 2.69; 5000;occ; 112; 0;40869
14; 567.6; 24-DEC-2009 04:48:22; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;40869
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19; 1307.2; 24-DEC-2009 05:00:41; Dark ; 50.0; 23; 21Eps CMa ; 1.50; 26000;occ; 100; 0;40869
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21; 1568.2; 24-DEC-2009 05:05:02; Dark ; 53.5; 1; 9Alp CMa ; -1.44; 11000;occ; 107; 0;40869
22; 1757.5; 24-DEC-2009 05:08:12; Dark ; 45.5; 7; 19Bet Ori ; 0.10; 14000;occ; 91; 0;40869
23; 1878.9; 24-DEC-2009 05:10:13; Dark ; 44.0; 30; 46Eps Ori ; 1.69; 30000;occ; 88; 0;40869
24; 2045.5; 24-DEC-2009 05:13:00; Dark ; 60.0; 14; 58Alp Ori ; 0.87; 3000;occ; 120; 0;40869
25; 2288.4; 24-DEC-2009 05:17:03; Bright; 43.0; 176; 23Zet Tau ; 3.02; 22000;occ; 86; 0;40869
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13; 4558.2; 26-DEC-2009 11:34:02; Bright; 58.0; 83; ; 2.38; 11000;occ; 116; 0;40901
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12; 4349.6; 26-DEC-2009 13:11:10; Bright; 59.0; 180; 27Gam Boo ; 3.04; 8000;occ; 118; 0;40902
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19;	5465.9;	26-DEC-2009	18:31:34;	Dark ;	58.5;	15;	67Alp Vir ;	0.98;	28000;occ;	117;	0;40905
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26;	6726.9;	26-DEC-2009	18:52:35;	Dark ;	52.5;	41;	Eps Car ;	1.86;	4100;occ;	105;	0;40905
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7;	1878.8;	26-DEC-2009	19:12:23;	Dark ;	44.5;	30;	46Eps Ori ;	1.69;	30000;occ;	89;	0;40906
8;	2039.8;	26-DEC-2009	19:15:04;	Dark ;	51.5;	14;	58Alp Ori ;	0.87;	3000;occ;	103;	0;40906
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26; 6509.6; 31-DEC-2009 19:32:05; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;40977
27; 6664.9; 31-DEC-2009 19:34:40; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;40977
28; 6760.3; 31-DEC-2009 19:36:15; Dark ; 52.0; 41; Eps Car ; 1.86; 4100;occ; 104; 0;40977
29; 6950.7; 31-DEC-2009 19:39:26; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;40977
30; 7082.3; 31-DEC-2009 19:41:37; Dark ; 16.5; 70; Zet Pup ; 2.25; 39000;occ; 33; 0;40977

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