

GOMOS Daily Report 18-SEP-2010

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	26SEP2010 04:57:18
Data source version	GOMOS/5.01
Start time of products	18SEP2010 00:04:21
Stop time of products	18SEP2010 23:57:14
Store outputs in DB	Yes
Nb of level 1b prods	99
Nb of prods with errors	1

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

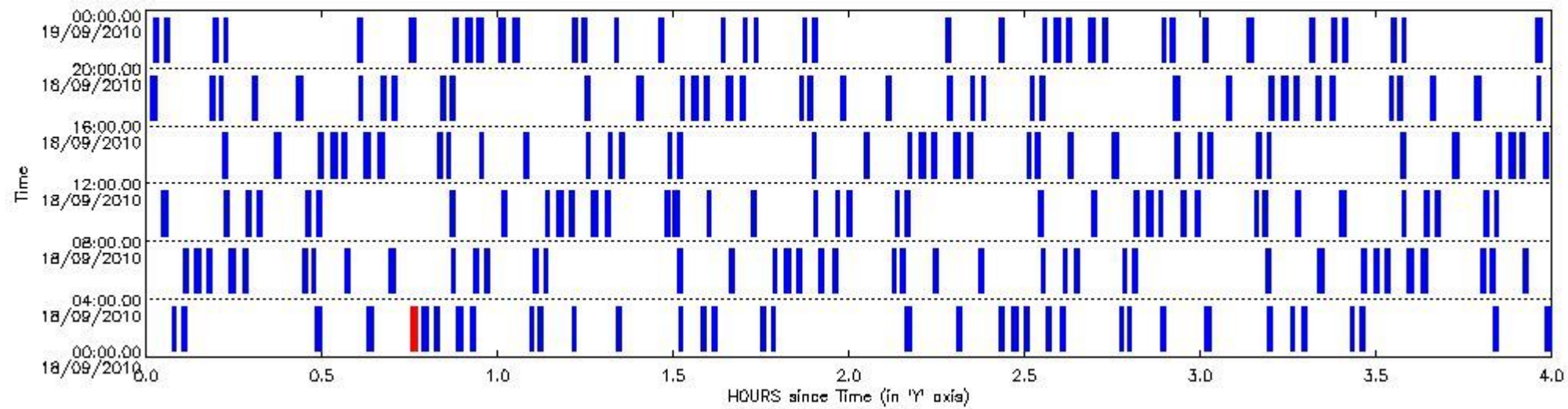
2.1 Level 0 products arrived in PCF (see template [here](#))

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
18-SEP-2010 00:45:15	15RhoPup	132	44702

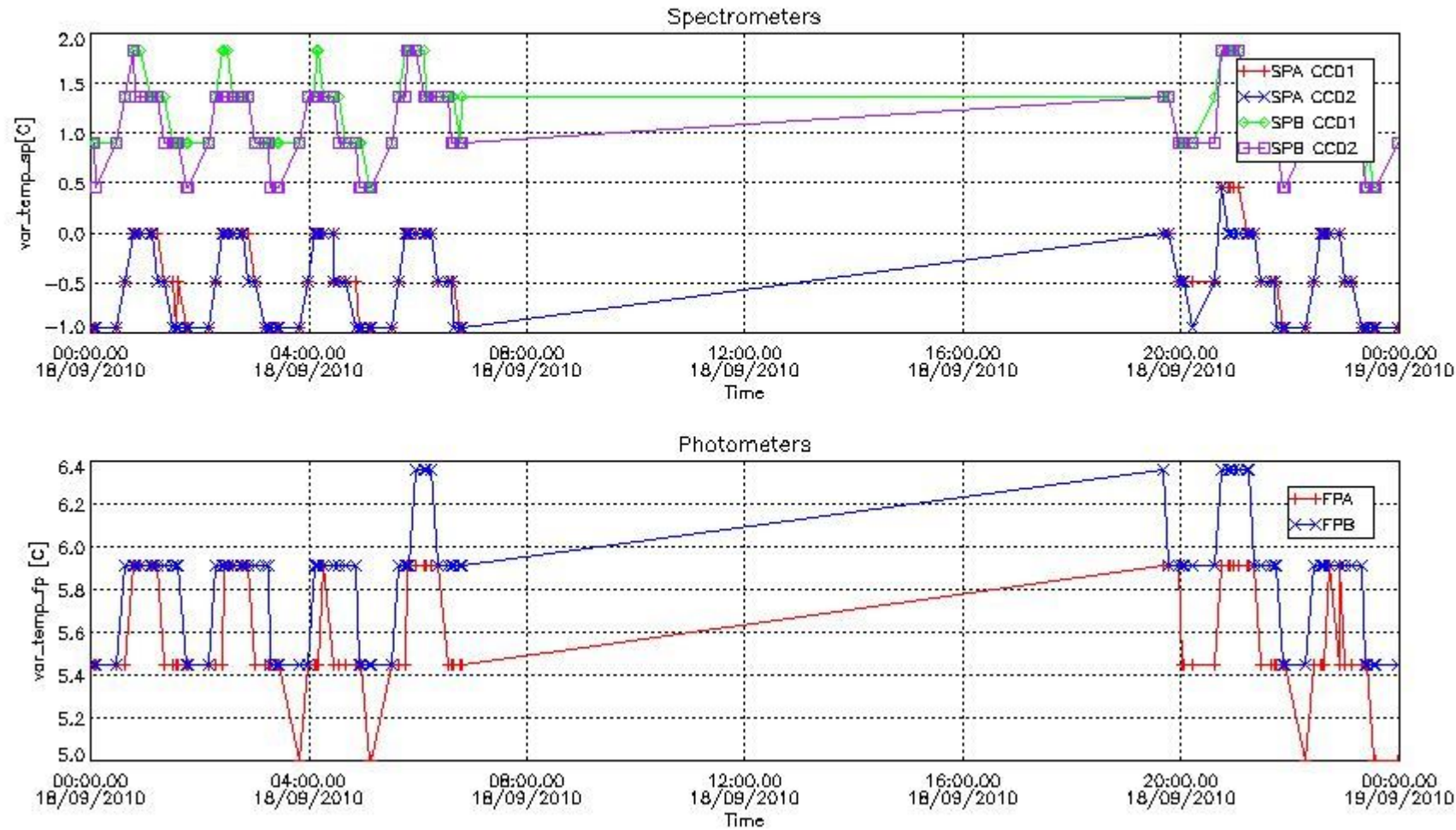
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100918_000421_000000402093_00059_44702_4871.N1	18-SEP-2010 00:04:21	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	44702	No
2	GOM_TRA_1PNPDE20100918_000605_000000432093_00059_44702_4872.N1	18-SEP-2010 00:06:05	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	44702	No
3	GOM_TRA_1PNPDE20100918_002849_000000642093_00059_44702_4873.N1	18-SEP-2010 00:28:49	Bright	63.500	24	66Alp Gem	1.5800	10200.	127	44702	No
4	GOM_TRA_1PNPDE20100918_003741_000000592093_00059_44702_4874.N1	18-SEP-2010 00:37:41	Dark	59.000	8	10Alp CMi	0.40000	6500.0	118	44702	No
5	GOM_TRA_1PNPDE20100918_004703_000000572093_00059_44702_4160.N1	18-SEP-2010 00:47:03	Dark	56.500	1	9Alp CMa	-1.4400	11000.	113	44702	No
6	GOM_TRA_1PNPDE20100918_004909_000000502093_00059_44702_4161.N1	18-SEP-2010 00:49:09	Dark	49.500	23	21Eps CMa	1.5020	26000.	99	44702	No
7	GOM_TRA_1PNPDE20100918_005519_000000552093_00060_44703_4162.N1	18-SEP-2010 00:55:19	Dark	54.500	2	Alp Car	-0.73600	7000.0	109	44703	No
8	GOM_TRA_1PNPDE20100918_010531_000000402093_00060_44703_4163.N1	18-SEP-2010 01:05:31	Dark	39.500	143	Alp Hyi	2.8570	7200.0	79	44703	No
9	GOM_TRA_1PNPDE20100918_010657_000000472093_00060_44703_4164.N1	18-SEP-2010 01:06:57	Dark	47.000	9	Alp Eri	0.45300	24000.	94	44703	No
10	GOM_TRA_1PNPDE20100918_011238_000000472093_00060_44703_4165.N1	18-SEP-2010 01:12:38	Straylight	46.500	84	Alp Phe	2.3970	4500.0	93	44703	No

11	GOM_TRA_1PNPDE20100918_012011_000000602093_00060_44703_4166.N1	18-SEP-2010 01:20:11	Twilight	59.500	52	16Bet Cet	2.0370	4500.0	119	44703	No
12	GOM_TRA_1PNPDE20100918_013056_000000402093_00060_44703_4167.N1	18-SEP-2010 01:30:56	Bright	40.000	90	54Alp Peg	2.4870	11000.	80	44703	No
13	GOM_TRA_1PNPDE20100918_013446_000000382093_00060_44703_4168.N1	18-SEP-2010 01:34:46	Bright	38.000	93	53Bet Peg	2.5200	3100.0	76	44703	No
14	GOM_TRA_1PNPDE20100918_013639_000000462093_00060_44703_4169.N1	18-SEP-2010 01:36:39	Bright	46.000	58	21Alp And	2.0730	11000.	92	44703	No
15	GOM_TRA_1PNPDE20100918_014456_000000422093_00060_44703_4170.N1	18-SEP-2010 01:44:56	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	44703	No
16	GOM_TRA_1PNPDE20100918_014641_000000422093_00060_44703_4171.N1	18-SEP-2010 01:46:41	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	44703	No
17	GOM_TRA_1PNPDE20100918_020925_000000642093_00060_44703_4172.N1	18-SEP-2010 02:09:25	Bright	64.000	24	66Alp Gem	1.5800	10200.	128	44703	No
18	GOM_TRA_1PNPDE20100918_021818_000000562093_00060_44703_4179.N1	18-SEP-2010 02:18:18	Dark	55.500	8	10Alp CMi	0.40000	6500.0	111	44703	No
19	GOM_TRA_1PNPDE20100918_022542_000000442093_00060_44703_4180.N1	18-SEP-2010 02:25:42	Dark	43.500	132	15Rho Pup	2.8030	6900.0	87	44703	No
20	GOM_TRA_1PNPDE20100918_022740_000000662093_00060_44703_4181.N1	18-SEP-2010 02:27:40	Dark	65.500	1	9Alp CMa	-1.4400	11000.	131	44703	No
21	GOM_TRA_1PNPDE20100918_022946_000000492093_00060_44703_4182.N1	18-SEP-2010 02:29:46	Dark	49.000	23	21Eps CMa	1.5020	26000.	98	44703	No
22	GOM_TRA_1PNPDE20100918_023556_000000542093_00061_44704_4183.N1	18-SEP-2010 02:35:56	Dark	53.500	2	Alp Car	-0.73600	7000.0	107	44704	No
23	GOM_TRA_1PNPDE20100918_024608_000000372093_00061_44704_4184.N1	18-SEP-2010 02:46:08	Dark	36.500	143	Alp Hyi	2.8570	7200.0	73	44704	No
24	GOM_TRA_1PNPDE20100918_024733_000000422093_00061_44704_4185.N1	18-SEP-2010 02:47:33	Dark	42.000	9	Alp Eri	0.45300	24000.	84	44704	No
25	GOM_TRA_1PNPDE20100918_025315_000000472093_00061_44704_4186.N1	18-SEP-2010 02:53:15	Straylight	46.500	84	Alp Phe	2.3970	4500.0	93	44704	No
26	GOM_TRA_1PNPDE20100918_030048_000000622093_00061_44704_4187.N1	18-SEP-2010 03:00:48	Twilight	61.500	52	16Bet Cet	2.0370	4500.0	123	44704	No
27	GOM_TRA_1PNPDE20100918_031131_000000392093_00061_44704_4188.N1	18-SEP-2010 03:11:31	Bright	38.500	90	54Alp Peg	2.4870	11000.	77	44704	No
28	GOM_TRA_1PNPDE20100918_031521_000000392093_00061_44704_4189.N1	18-SEP-2010 03:15:21	Bright	38.500	93	53Bet Peg	2.5200	3100.0	77	44704	No
29	GOM_TRA_1PNPDE20100918_031715_000000472093_00061_44704_4190.N1	18-SEP-2010 03:17:15	Bright	47.000	58	21Alp And	2.0730	11000.	94	44704	No
30	GOM_TRA_1PNPDE20100918_032531_000000382093_00061_44704_4191.N1	18-SEP-2010 03:25:31	Bright	37.500	74	11Bet Cas	2.2680	6600.0	75	44704	No
31	GOM_TRA_1PNPDE20100918_032716_000000392093_00061_44704_4192.N1	18-SEP-2010 03:27:16	Bright	39.000	76	27Gam Cas	2.3000	30000.	78	44704	No
32	GOM_TRA_1PNPDE20100918_035002_000000532093_00061_44704_4199.N1	18-SEP-2010 03:50:02	Bright	53.000	24	66Alp Gem	1.5800	10200.	106	44704	No
33	GOM_TRA_1PNPDE20100918_035854_000000632093_00061_44704_4200.N1	18-SEP-2010 03:58:54	Dark	63.000	8	10Alp CMi	0.40000	6500.0	126	44704	No
34	GOM_TRA_1PNPDE20100918_040619_000000442093_00061_44704_4201.N1	18-SEP-2010 04:06:19	Dark	43.500	132	15Rho Pup	2.8030	6900.0	87	44704	No
35	GOM_TRA_1PNPDE20100918_040817_000000592093_00061_44704_4202.N1	18-SEP-2010 04:08:17	Dark	59.000	1	9Alp CMa	-1.4400	11000.	118	44704	No
36	GOM_TRA_1PNPDE20100918_041023_000000512093_00061_44704_4203.N1	18-SEP-2010 04:10:23	Dark	50.500	23	21Eps CMa	1.5020	26000.	101	44704	No
37	GOM_TRA_1PNPDE20100918_041632_000000542093_00062_44705_4204.N1	18-SEP-2010 04:16:32	Dark	53.500	2	Alp Car	-0.73600	7000.0	107	44705	No
38	GOM_TRA_1PNPDE20100918_042644_000000412093_00062_44705_4205.N1	18-SEP-2010 04:26:44	Dark	40.500	143	Alp Hyi	2.8570	7200.0	81	44705	No
39	GOM_TRA_1PNPDE20100918_042810_000000422093_00062_44705_4206.N1	18-SEP-2010 04:28:10	Dark	42.000	9	Alp Eri	0.45300	24000.	84	44705	No
40	GOM_TRA_1PNPDE20100918_043351_000000482093_00062_44705_4207.N1	18-SEP-2010 04:33:51	Straylight	47.500	84	Alp Phe	2.3970	4500.0	95	44705	No
41	GOM_TRA_1PNPDE20100918_044124_000000592093_00062_44705_4208.N1	18-SEP-2010 04:41:24	Twilight	58.500	52	16Bet Cet	2.0370	4500.0	117	44705	No
42	GOM_TRA_1PNPDE20100918_045207_000000392093_00062_44705_4209.N1	18-SEP-2010 04:52:07	Bright	38.500	90	54Alp Peg	2.4870	11000.	77	44705	No
43	GOM_TRA_1PNPDE20100918_045557_000000422093_00062_44705_4210.N1	18-SEP-2010 04:55:57	Bright	42.000	93	53Bet Peg	2.5200	3100.0	84	44705	No
44	GOM_TRA_1PNPDE20100918_045750_000000492093_00062_44705_4211.N1	18-SEP-2010 04:57:50	Bright	48.500	58	21Alp And	2.0730	11000.	97	44705	No
45	GOM_TRA_1PNPDE20100918_050607_000000412093_00062_44705_4212.N1	18-SEP-2010 05:06:07	Bright	41.000	74	11Bet Cas	2.2680	6600.0	82	44705	No
46	GOM_TRA_1PNPDE20100918_050752_000000422093_00062_44705_4213.N1	18-SEP-2010 05:07:52	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	44705	No
47	GOM_TRA_1PNPDE20100918_053038_000000472093_00062_44705_4225.N1	18-SEP-2010 05:30:38	Bright	46.500	24	66Alp Gem	1.5800	10200.	93	44705	No
48	GOM_TRA_1PNPDE20100918_053931_000000542093_00062_44705_4226.N1	18-SEP-2010 05:39:31	Dark	54.000	8	10Alp CMi	0.40000	6500.0	108	44705	No
49	GOM_TRA_1PNPDE20100918_054655_000000442093_00062_44705_4227.N1	18-SEP-2010 05:46:55	Dark	44.000	132	15Rho Pup	2.8030	6900.0	88	44705	No
50	GOM_TRA_1PNPDE20100918_054854_000000612093_00062_44705_4228.N1	18-SEP-2010 05:48:54	Dark	60.500	1	9Alp CMa	-1.4400	11000.	121	44705	No
51	GOM_TRA_1PNPDE20100918_055100_000000512093_00062_44705_4229.N1	18-SEP-2010 05:51:00	Dark	50.500	23	21Eps CMa	1.5020	26000.	101	44705	No
52	GOM_TRA_1PNPDE20100918_055709_000000572093_00063_44706_4230.N1	18-SEP-2010 05:57:09	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	44706	No
53	GOM_TRA_1PNPDE20100918_060720_000000382093_00063_44706_4231.N1	18-SEP-2010 06:07:20	Dark	37.500	143	Alp Hyi	2.8570	7200.0	75	44706	No
54	GOM_TRA_1PNPDE20100918_060846_000000422093_00063_44706_4232.N1	18-SEP-2010 06:08:46	Dark	41.500	9	Alp Eri	0.45300	24000.	83	44706	No
55	GOM_TRA_1PNPDE20100918_061427_000000452093_00063_44706_4233.N1	18-SEP-2010 06:14:27	Straylight	44.500	84	Alp Phe	2.3970	4500.0	89	44706	No
56	GOM_TRA_1PNPDE20100918_062200_000000612093_00063_44706_4234.N1	18-SEP-2010 06:22:00	Twilight	60.500	52	16Bet Cet	2.0370	4500.0	121	44706	No
57	GOM_TRA_1PNPDE20100918_063243_000000402093_00063_44706_4235.N1	18-SEP-2010 06:32:43	Bright	39.500	90	54Alp Peg	2.4870	11000.	79	44706	No
58	GOM_TRA_1PNPDE20100918_063633_000000402093_00063_44706_4236.N1	18-SEP-2010 06:36:33	Bright	39.500	93	53Bet Peg	2.5200	3100.0	79	44706	No
59	GOM_TRA_1PNPDE20100918_063825_000000482093_00063_44706_4237.N1	18-SEP-2010 06:38:25	Bright	48.000	58	21Alp And	2.0730	11000.	96	44706	No
60	GOM_TRA_1PNPDE20100918_064643_000000402093_00063_44706_4238.N1	18-SEP-2010 06:46:43	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	44706	No
61	GOM_TRA_1PNPDE20100918_064827_000000422093_00063_44706_4239.N1	18-SEP-2010 06:48:27	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	44706	No
62	GOM_TRA_1PNPDE20100918_193918_000000462093_00071_44714_4276.N1	18-SEP-2010 19:39:18	Straylight	46.000	84	Alp Phe	2.3970	4500.0	92	44714	No
63	GOM_TRA_1PNPDE20100918_194648_000000572093_00071_44714_4277.N1	18-SEP-2010 19:46:48	Twilight	57.000	52	16Bet Cet	2.0370	4500.0	114	44714	No
64	GOM_TRA_1PNPDE20100918_195729_000000392093_00071_44714_4278.N1	18-SEP-2010 19:57:29	Bright	38.500	90	54Alp Peg	2.4870	11000.	77	44714	No
65	GOM_TRA_1PNPDE20100918_200119_000000422093_00071_44714_4279.N1	18-SEP-2010 20:01:19	Bright	42.000	93	53Bet Peg	2.5200	3100.0	84	44714	No
66	GOM_TRA_1PNPDE20100918_200308_000000462093_00071_44714_4280.N1	18-SEP-2010 20:03:08	Bright	46.000	58	21Alp And	2.0730	11000.	92	44714	No
67	GOM_TRA_1PNPDE20100918_201127_000000402093_00071_44714_4281.N1	18-SEP-2010 20:11:27	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	44714	No
68	GOM_TRA_1PNPDE20100918_201310_000000422093_00071_44714_4282.N1	18-SEP-2010 20:13:10	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	44714	No
69	GOM_TRA_1PNPDE20100918_203602_000000482093_00071_44714_4283.N1	18-SEP-2010 20:36:02	Bright	47.500	24	66Alp Gem	1.5800	10200.	95	44714	No

70	GOM_TRA_1PNPDE20100918_204459_000000592093_00071_44714_4292.N1	18-SEP-2010 20:44:59	Dark	58.500	8	10Alp CMi	0.40000	6500.0	117	44714	Yes
71	GOM_TRA_1PNPDE20100918_205223_000000422093_00071_44714_4293.N1	18-SEP-2010 20:52:23	Dark	41.500	132	15Rho Pup	2.8030	6900.0	83	44714	No
72	GOM_TRA_1PNPDE20100918_205428_000000642093_00071_44714_4294.N1	18-SEP-2010 20:54:28	Dark	64.000	1	9Alp CMa	-1.4400	11000.	128	44714	No
73	GOM_TRA_1PNPDE20100918_205631_000000542093_00071_44714_4295.N1	18-SEP-2010 20:56:31	Dark	53.500	23	21Eps CMa	1.5020	26000.	107	44714	No
74	GOM_TRA_1PNPDE20100918_210238_000000542093_00072_44715_4296.N1	18-SEP-2010 21:02:38	Dark	53.500	2	Alp Car	-0.73600	7000.0	107	44715	No
75	GOM_TRA_1PNPDE20100918_211248_000000402093_00072_44715_4297.N1	18-SEP-2010 21:12:48	Dark	40.000	143	Alp Hyi	2.8570	7200.0	80	44715	No
76	GOM_TRA_1PNPDE20100918_211414_000000532093_00072_44715_4298.N1	18-SEP-2010 21:14:14	Dark	52.500	9	Alp Eri	0.45300	24000.	105	44715	No
77	GOM_TRA_1PNPDE20100918_211954_000000452093_00072_44715_4299.N1	18-SEP-2010 21:19:54	Straylight	45.000	84	Alp Phe	2.3970	4500.0	90	44715	No
78	GOM_TRA_1PNPDE20100918_212724_000000562093_00072_44715_4300.N1	18-SEP-2010 21:27:24	Twilight_and_stray	56.000	52	16Bet Cet	2.0370	4500.0	112	44715	No
79	GOM_TRA_1PNPDE20100918_213805_000000402093_00072_44715_4301.N1	18-SEP-2010 21:38:05	Bright	39.500	90	54Alp Peg	2.4870	11000.	79	44715	No
80	GOM_TRA_1PNPDE20100918_214154_000000392093_00072_44715_4302.N1	18-SEP-2010 21:41:54	Bright	38.500	93	53Bet Peg	2.5200	3100.0	77	44715	No
81	GOM_TRA_1PNPDE20100918_214343_000000462093_00072_44715_4303.N1	18-SEP-2010 21:43:43	Bright	46.000	58	21Alp And	2.0730	11000.	92	44715	No
82	GOM_TRA_1PNPDE20100918_215202_000000412093_00072_44715_4304.N1	18-SEP-2010 21:52:02	Bright	41.000	74	11Bet Cas	2.2680	6600.0	82	44715	No
83	GOM_TRA_1PNPDE20100918_215345_000000432093_00072_44715_4305.N1	18-SEP-2010 21:53:45	Bright	42.500	76	27Gam Cas	2.3000	30000.	85	44715	No
84	GOM_TRA_1PNPDE20100918_221638_000000462093_00072_44715_4306.N1	18-SEP-2010 22:16:38	Bright	45.500	24	66Alp Gem	1.5800	10200.	91	44715	No
85	GOM_TRA_1PNPDE20100918_222536_000000572093_00072_44715_4307.N1	18-SEP-2010 22:25:36	Dark	56.500	8	10Alp CMi	0.40000	6500.0	113	44715	No
86	GOM_TRA_1PNPDE20100918_223300_000000412093_00072_44715_4833.N1	18-SEP-2010 22:33:00	Dark	40.500	132	15Rho Pup	2.8030	6900.0	81	44715	No
87	GOM_TRA_1PNPDE20100918_223505_000000622093_00072_44715_4834.N1	18-SEP-2010 22:35:05	Dark	61.500	1	9Alp CMa	-1.4400	11000.	123	44715	No
88	GOM_TRA_1PNPDE20100918_223708_000000532093_00072_44715_4835.N1	18-SEP-2010 22:37:08	Dark	53.000	23	21Eps CMa	1.5020	26000.	106	44715	No
89	GOM_TRA_1PNPDE20100918_224315_000000532093_00073_44716_4836.N1	18-SEP-2010 22:43:15	Dark	53.000	2	Alp Car	-0.73600	7000.0	106	44716	No
90	GOM_TRA_1PNPDE20100918_225324_000000372093_00073_44716_4837.N1	18-SEP-2010 22:53:24	Dark	37.000	143	Alp Hyi	2.8570	7200.0	74	44716	No
91	GOM_TRA_1PNPDE20100918_225450_000000492093_00073_44716_4838.N1	18-SEP-2010 22:54:50	Dark	48.500	9	Alp Eri	0.45300	24000.	97	44716	No
92	GOM_TRA_1PNPDE20100918_230030_000000462093_00073_44716_4839.N1	18-SEP-2010 23:00:30	Straylight	45.500	84	Alp Phe	2.3970	4500.0	91	44716	No
93	GOM_TRA_1PNPDE20100918_230800_000000572093_00073_44716_4840.N1	18-SEP-2010 23:08:00	Twilight_and_stray	57.000	52	16Bet Cet	2.0370	4500.0	114	44716	No
94	GOM_TRA_1PNPDE20100918_231841_000000402093_00073_44716_4841.N1	18-SEP-2010 23:18:41	Bright	39.500	90	54Alp Peg	2.4870	11000.	79	44716	No
95	GOM_TRA_1PNPDE20100918_232230_000000412093_00073_44716_4842.N1	18-SEP-2010 23:22:30	Bright	40.500	93	53Bet Peg	2.5200	3100.0	81	44716	No
96	GOM_TRA_1PNPDE20100918_232418_000000472093_00073_44716_4843.N1	18-SEP-2010 23:24:18	Bright	46.500	58	21Alp And	2.0730	11000.	93	44716	No
97	GOM_TRA_1PNPDE20100918_233237_000000422093_00073_44716_4844.N1	18-SEP-2010 23:32:37	Bright	42.000	74	11Bet Cas	2.2680	6600.0	84	44716	No
98	GOM_TRA_1PNPDE20100918_233421_000000432093_00073_44716_4845.N1	18-SEP-2010 23:34:21	Bright	43.000	76	27Gam Cas	2.3000	30000.	86	44716	No
99	GOM_TRA_1PNPDE20100918_235714_000000652093_00073_44716_4846.N1	18-SEP-2010 23:57:14	Bright	65.000	24	66Alp Gem	1.5800	10200.	130	44716	No

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



4. Overview of dark signal processing per product

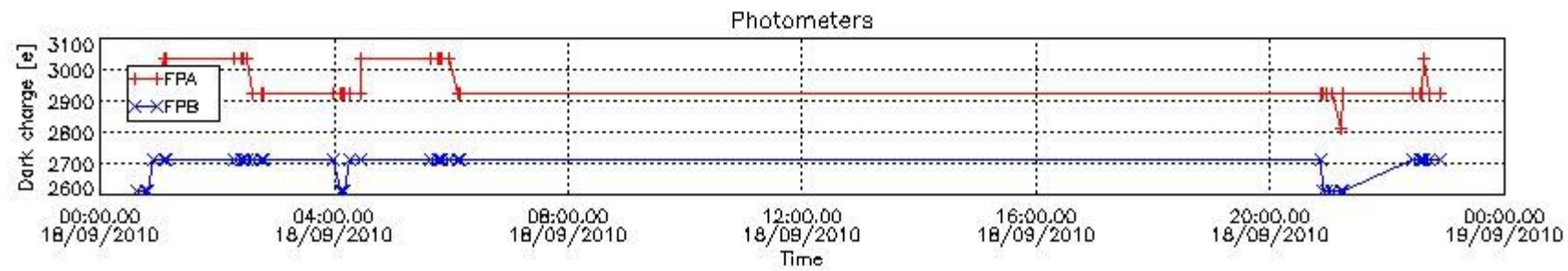
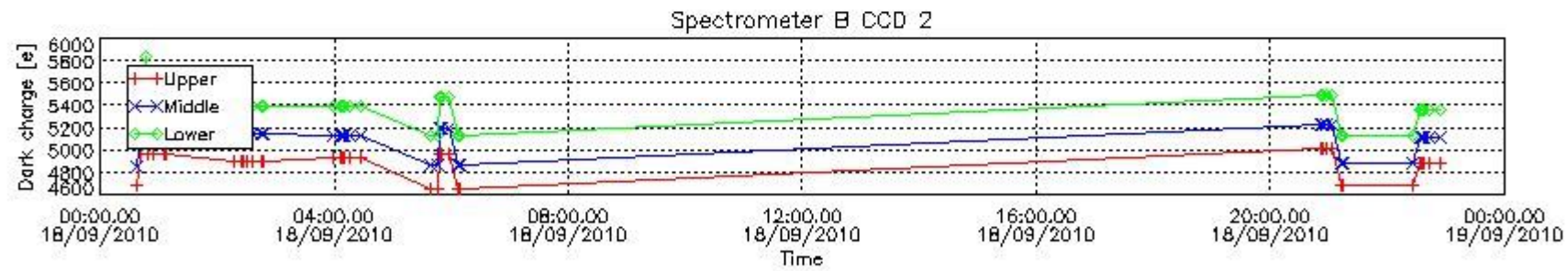
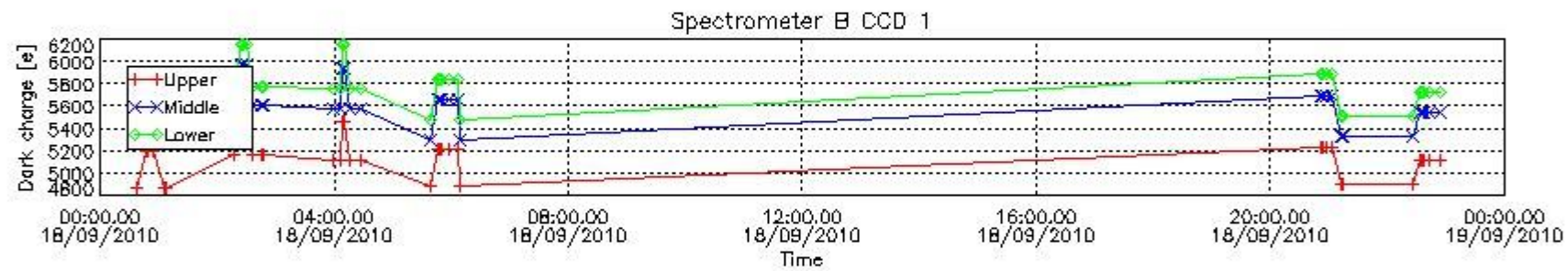
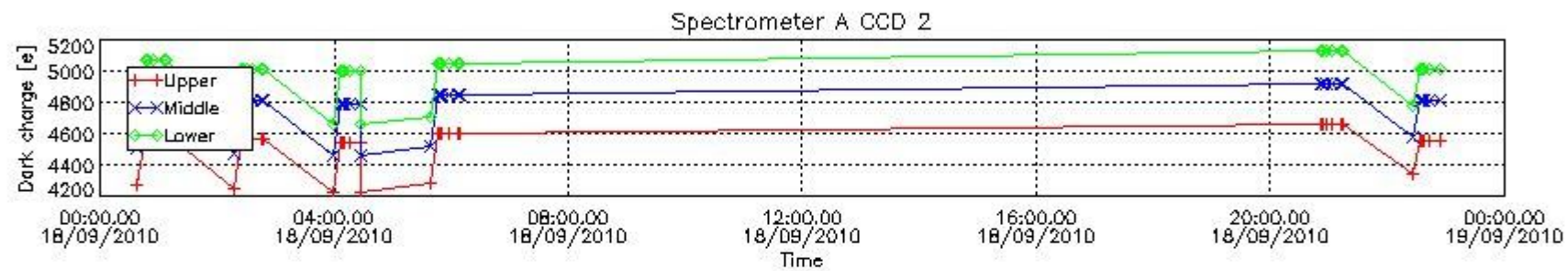
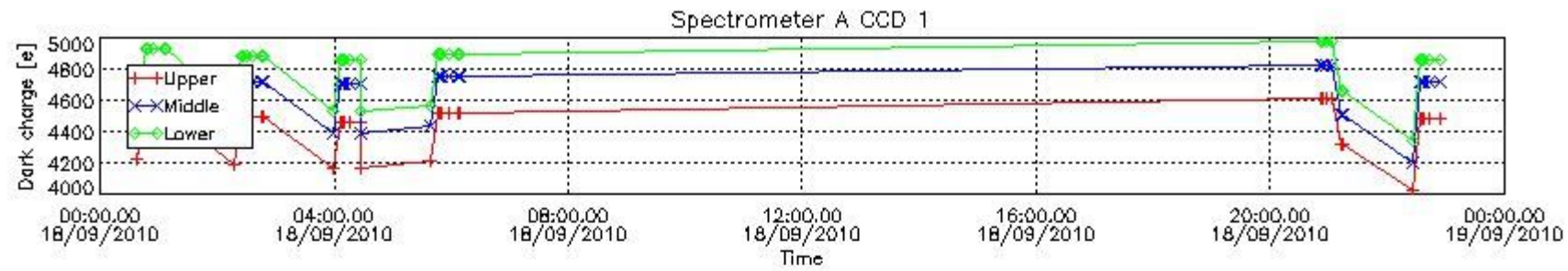
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20100918_193918_000000462093_00071_44714_4276.N1	DC map used
GOM_TRA_1PNPDE20100918_194648_000000572093_00071_44714_4277.N1	DC map used
GOM_TRA_1PNPDE20100918_195729_000000392093_00071_44714_4278.N1	DC map used
GOM_TRA_1PNPDE20100918_200119_000000422093_00071_44714_4279.N1	DC map used
GOM_TRA_1PNPDE20100918_200308_000000462093_00071_44714_4280.N1	DC map used
GOM_TRA_1PNPDE20100918_201127_000000402093_00071_44714_4281.N1	DC map used
GOM_TRA_1PNPDE20100918_201310_000000422093_00071_44714_4282.N1	DC map used
GOM_TRA_1PNPDE20100918_203602_000000482093_00071_44714_4283.N1	DC map used

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



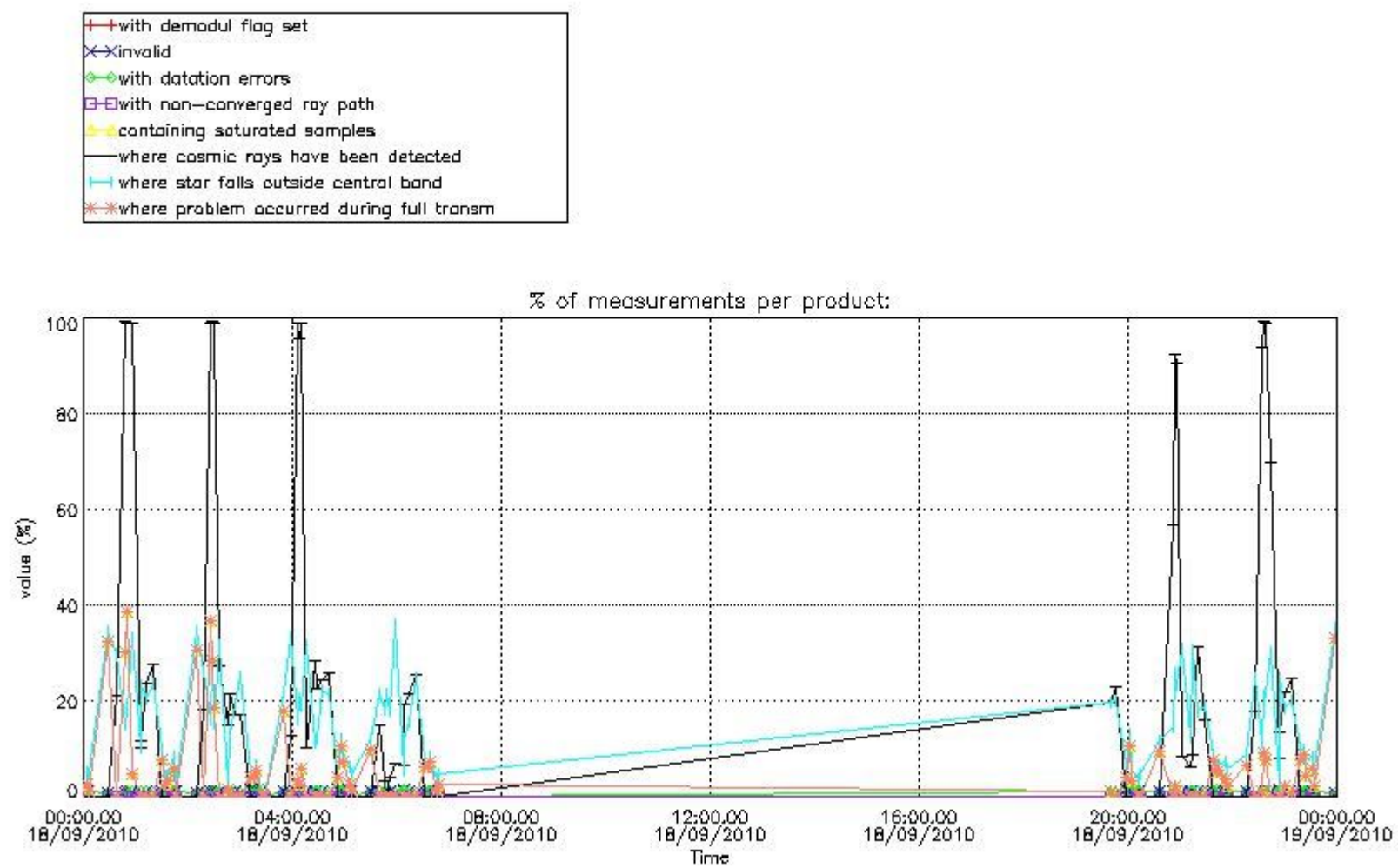
5. Demodulation flag and quality information monitoring

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.

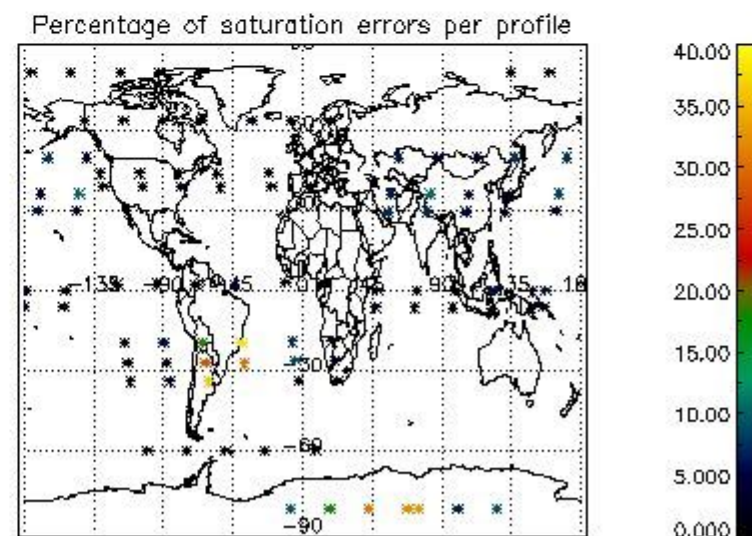
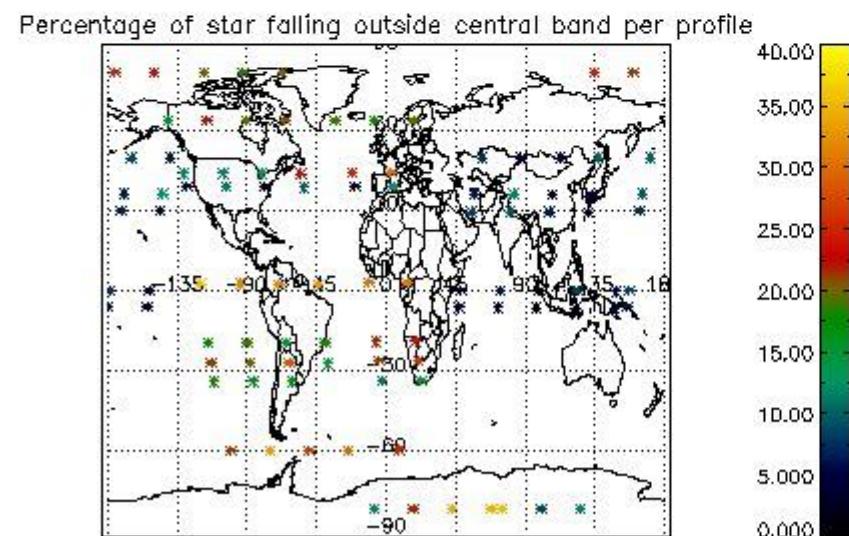
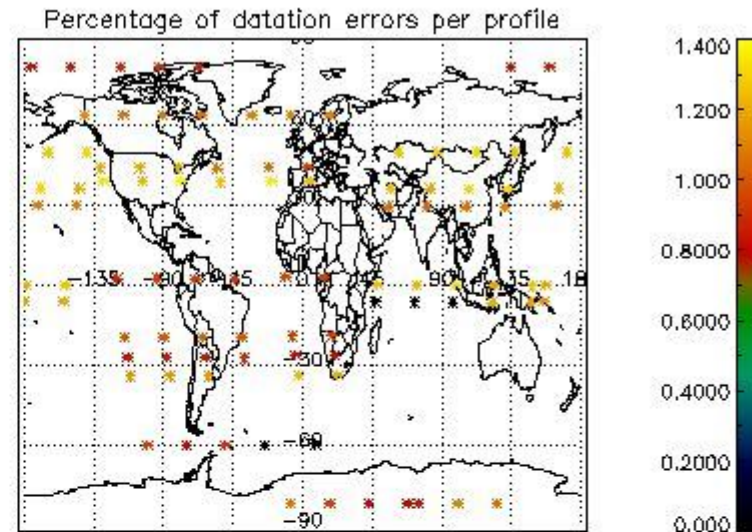
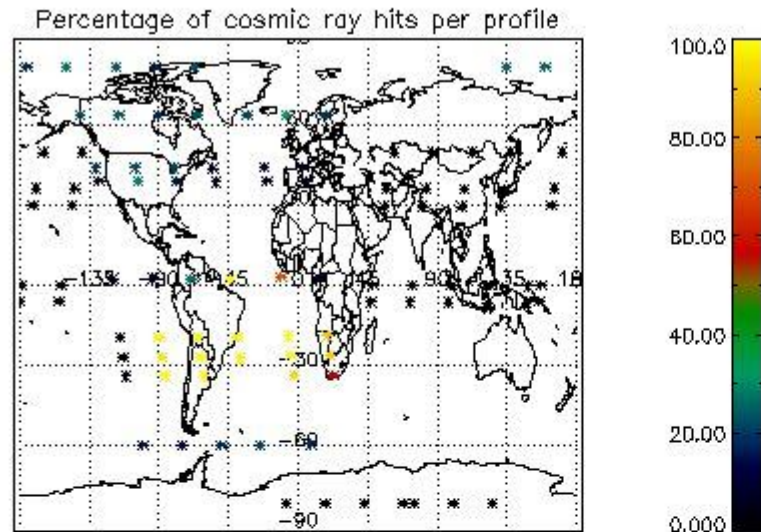
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	46.9388 %
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)



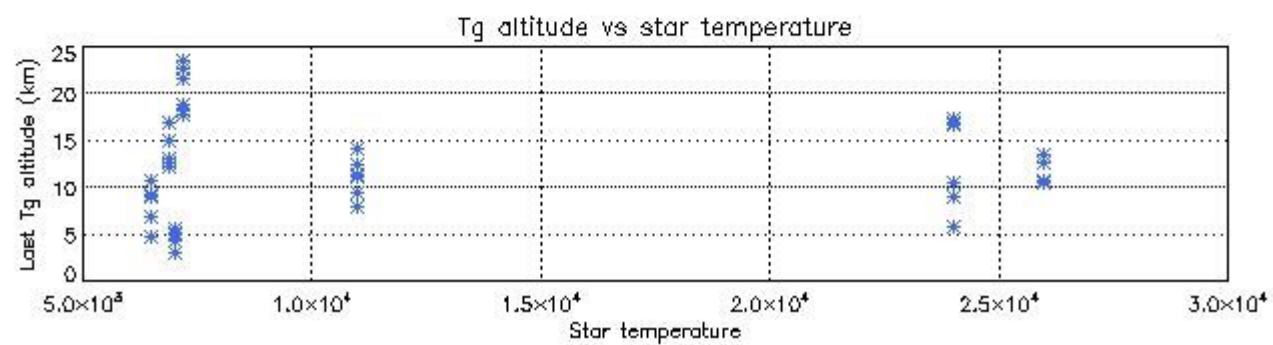
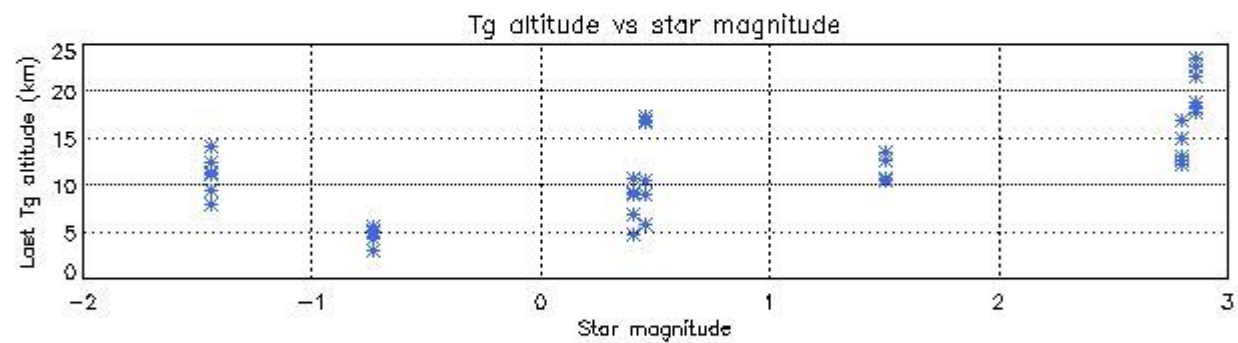
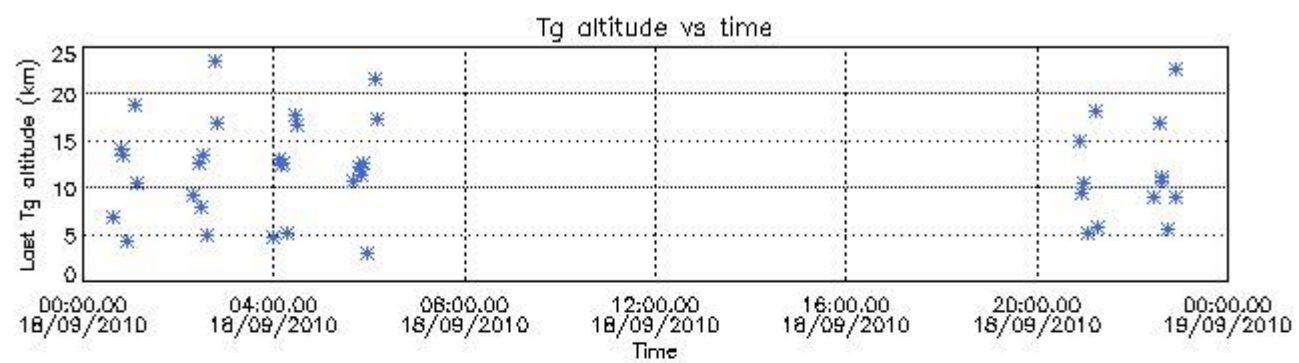
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	11.892	19.353	NaN
St. deviation:	5.2644	5.1065	NaN
Maximum:	23.529	28.940	NaN
Minimum:	3.0055	3.9746	NaN
Number of data:	40.000	44.000	NaN

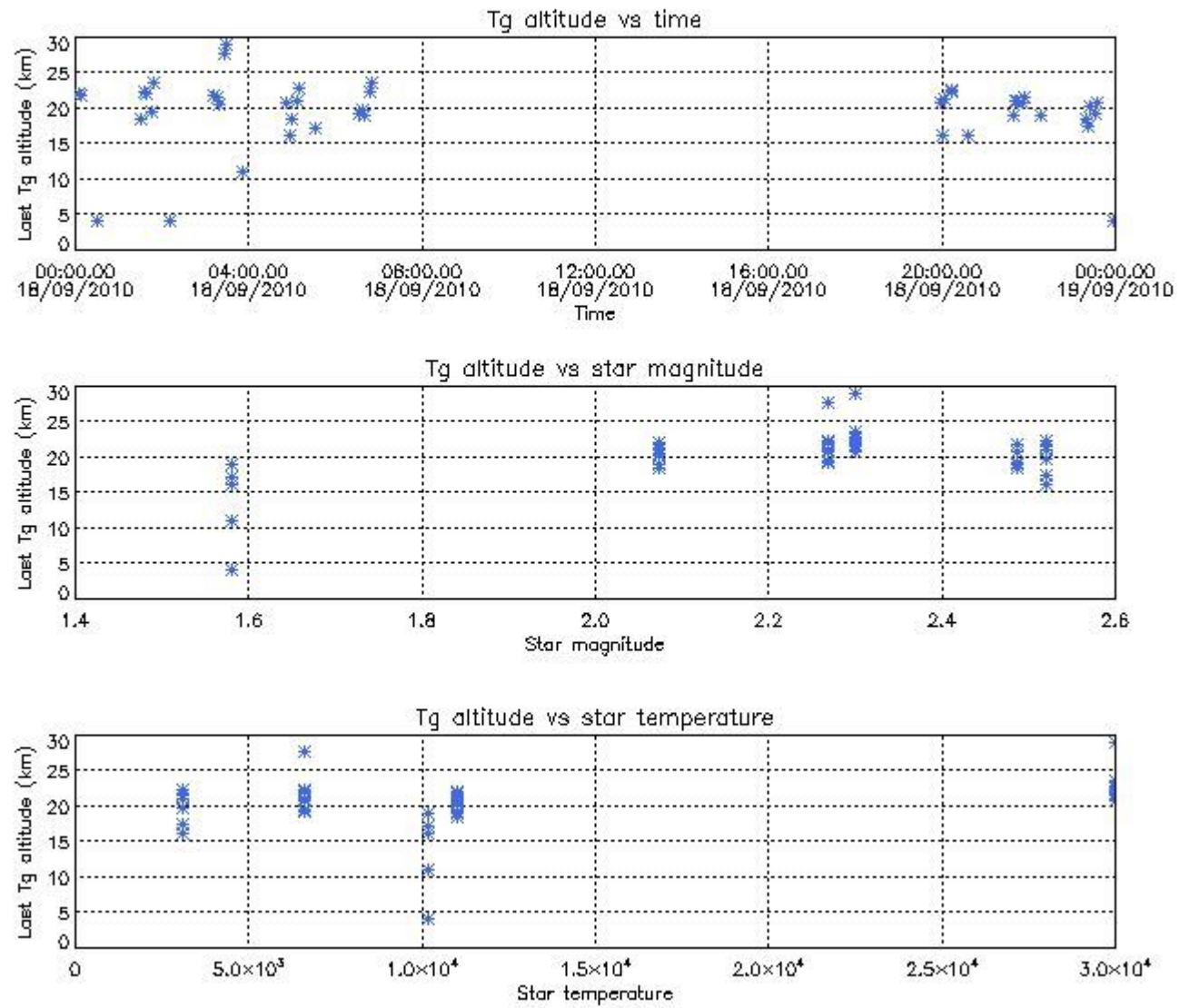
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

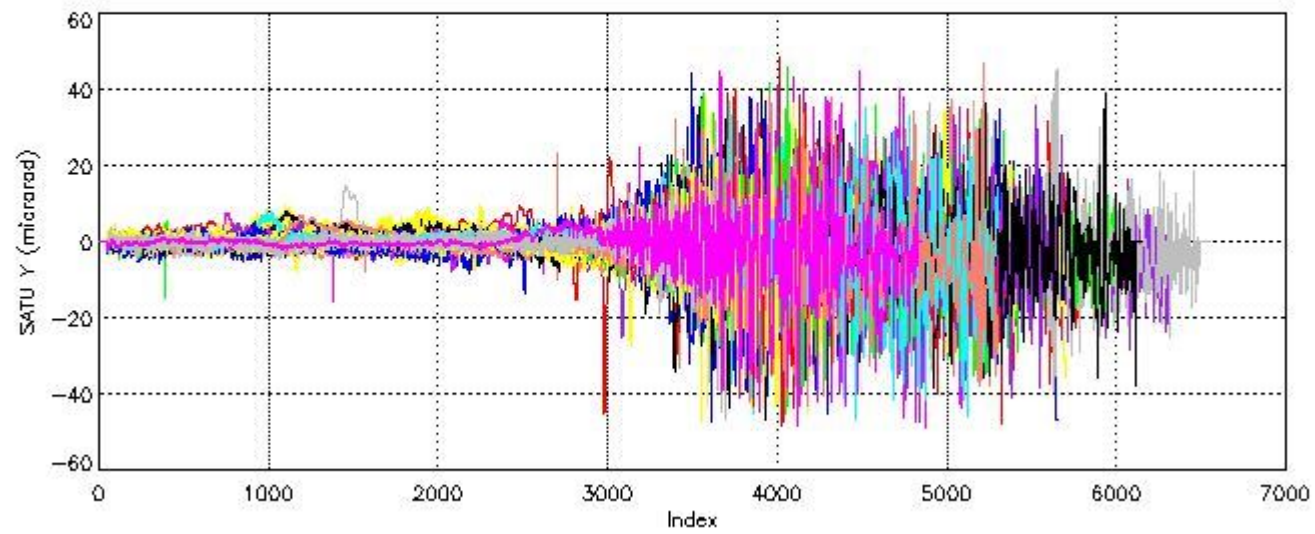
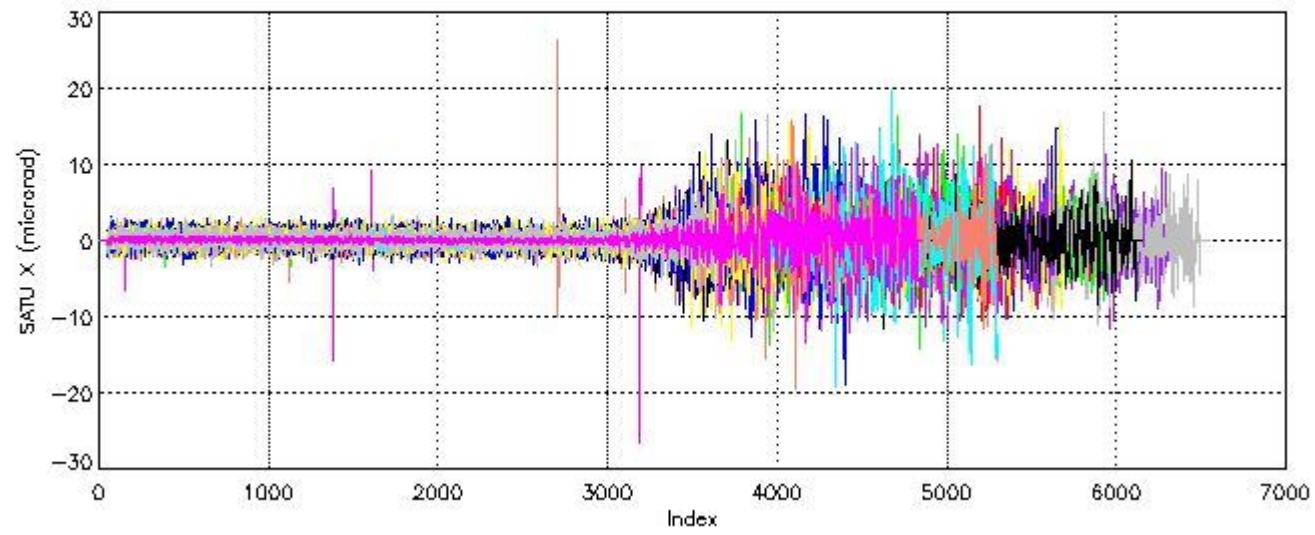


7. Star Acquisition and Tracking Unit (SATU)

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:	0.14046	-0.042386	0.18575	0.31976
St. deviation:	0.40551	0.98374	0.70081	1.3312
Maximum:	3.2000	7.7000	4.4000	13.600
Minimum:	-6.6000	-14.900	-4.0000	-14.700

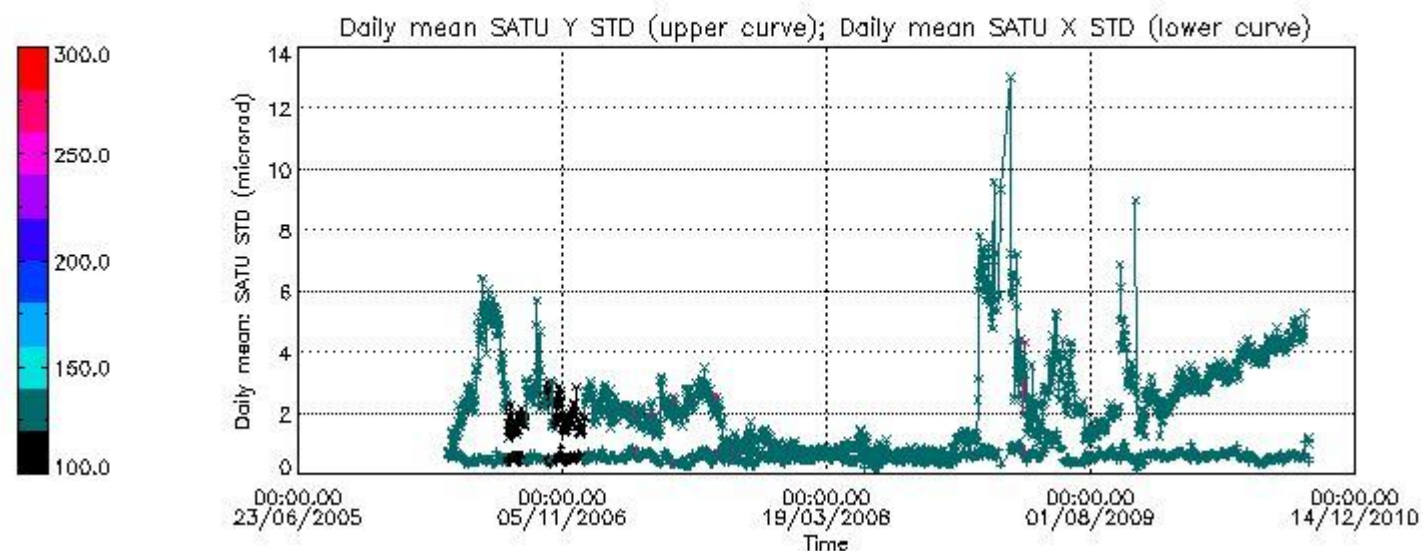
Number of data:	39450.	39450.	44400.	44400.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

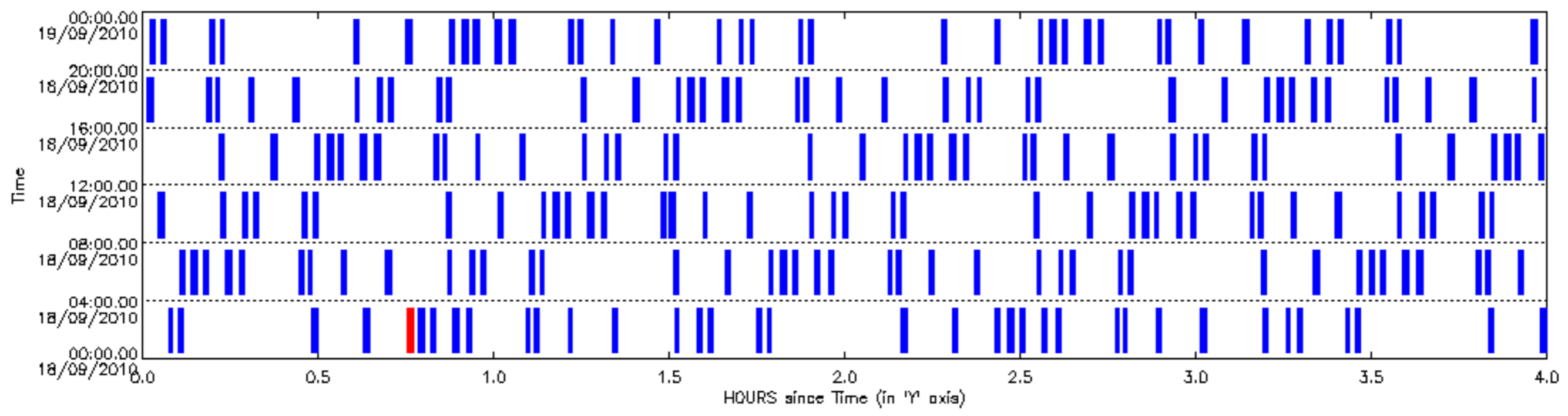
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

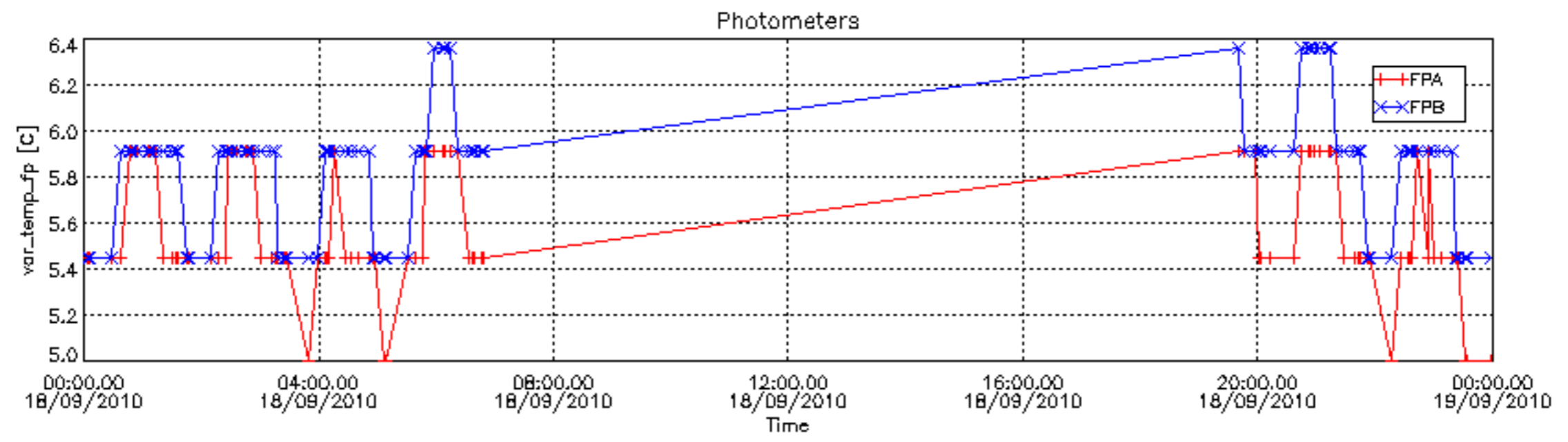
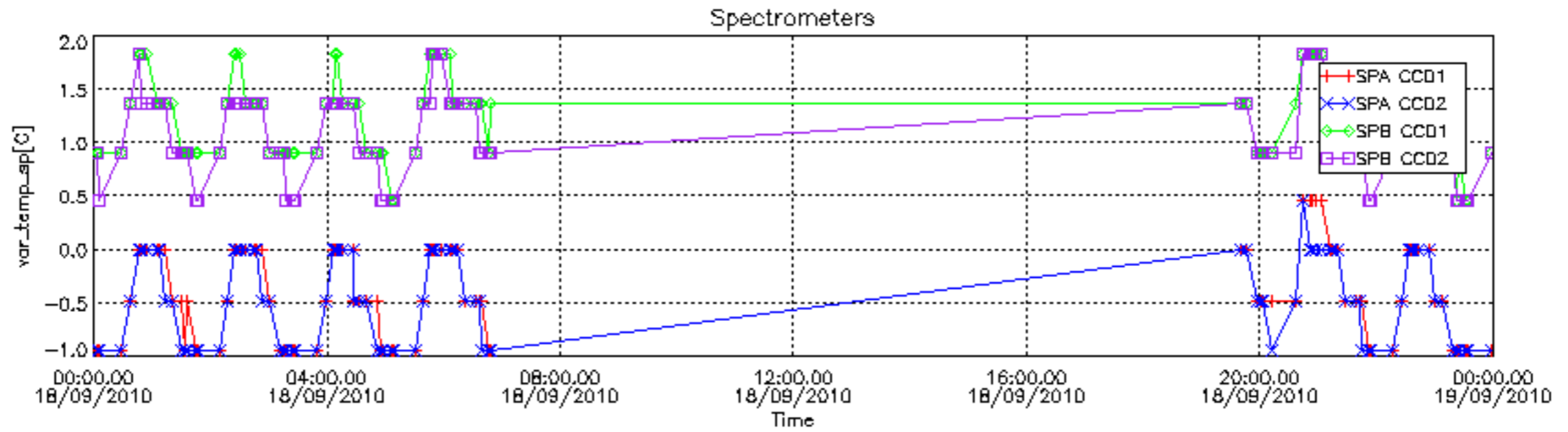


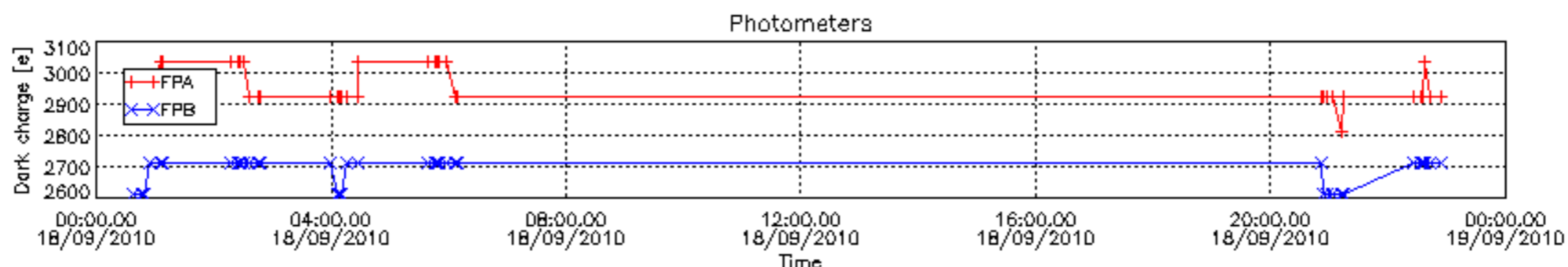
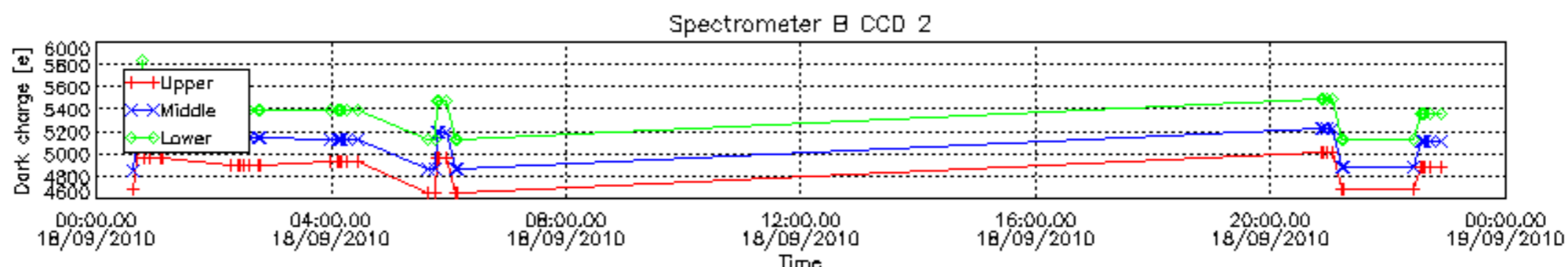
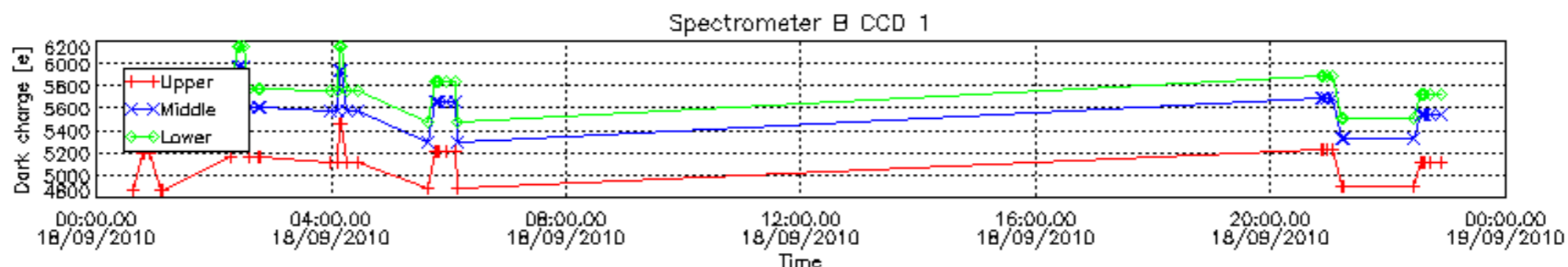
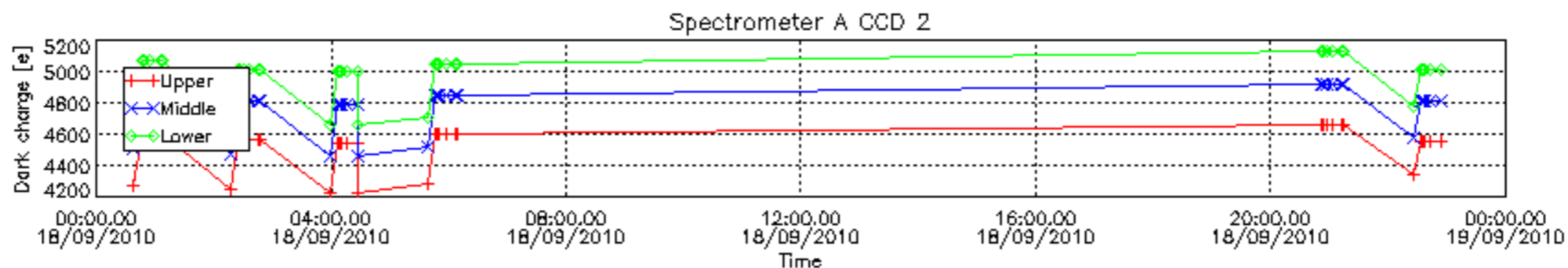
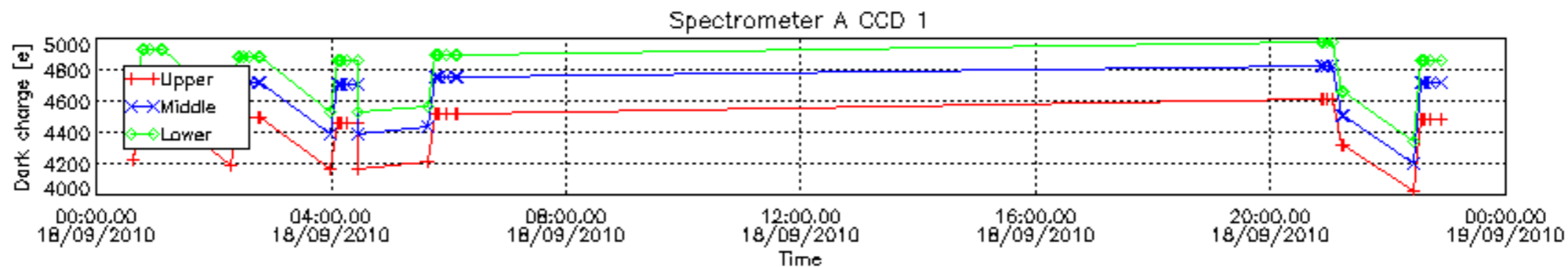
8. Auxiliary Data Files used for the production reported in section 2.4

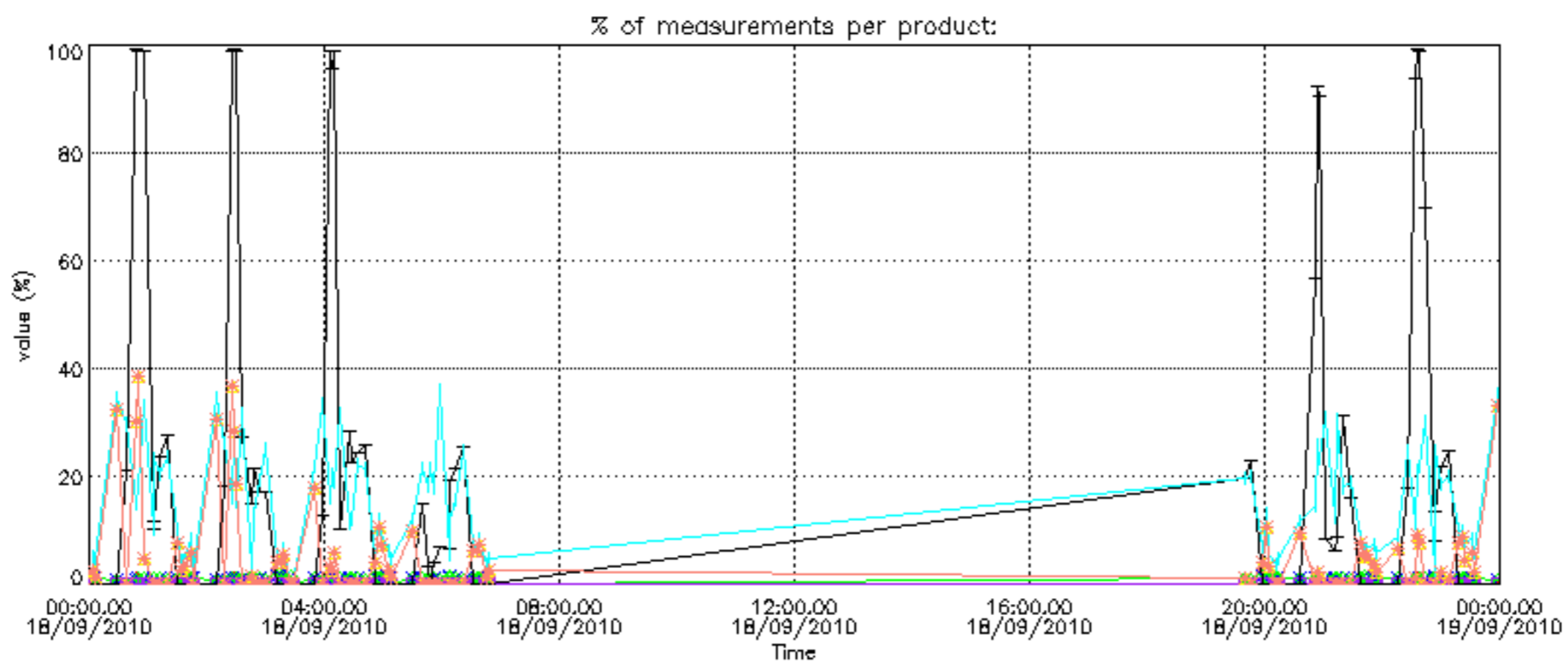
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	18-SEP-2010 00:04:21
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100917_112037_20100916_000000_20500101_000000	1	18-SEP-2010 00:04:21
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	18-SEP-2010 00:04:21
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	18-SEP-2010 00:04:21
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	18-SEP-2010 00:04:21
ECMWF_FILE	AUX_ECF_AXNECM20100917_054113_20100917_210000_20100918_090000	1	18-SEP-2010 00:04:21
ECMWF_FILE	AUX_ECA_AXNECM20100918_053212_20100917_210000_20100918_090000	5	18-SEP-2010 00:47:03
ECMWF_FILE	AUX_ECA_AXNECM20100918_165213_20100918_030000_20100918_150000	32	18-SEP-2010 03:50:02
ECMWF_FILE	AUX_ECA_AXNECM20100919_052114_20100918_150000_20100919_030000	62	18-SEP-2010 19:39:18
ECMWF_FILE	AUX_ECA_AXNECM20100919_052115_20100918_210000_20100919_090000	86	18-SEP-2010 22:33:00
OPTIONAL_ECMWF_FILE	MISSING	1	18-SEP-2010 00:04:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100917_230012_000057382093_00058_44701_1085.N1	1	18-SEP-2010 00:04:21
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100918_004109_000054192093_00059_44702_1086.N1	5	18-SEP-2010 00:47:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100918_021647_000041442093_00060_44703_1087.N1	18	18-SEP-2010 02:18:18
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100918_033110_000057382093_00061_44704_1088.N1	32	18-SEP-2010 03:50:02
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100918_051207_000057382093_00062_44705_1089.N1	47	18-SEP-2010 05:30:38
ORBIT_DATA_FILE	AUX_FRO_AXVPDS20100920_092113_20100916_221000_20100919_005000	62	18-SEP-2010 19:39:18

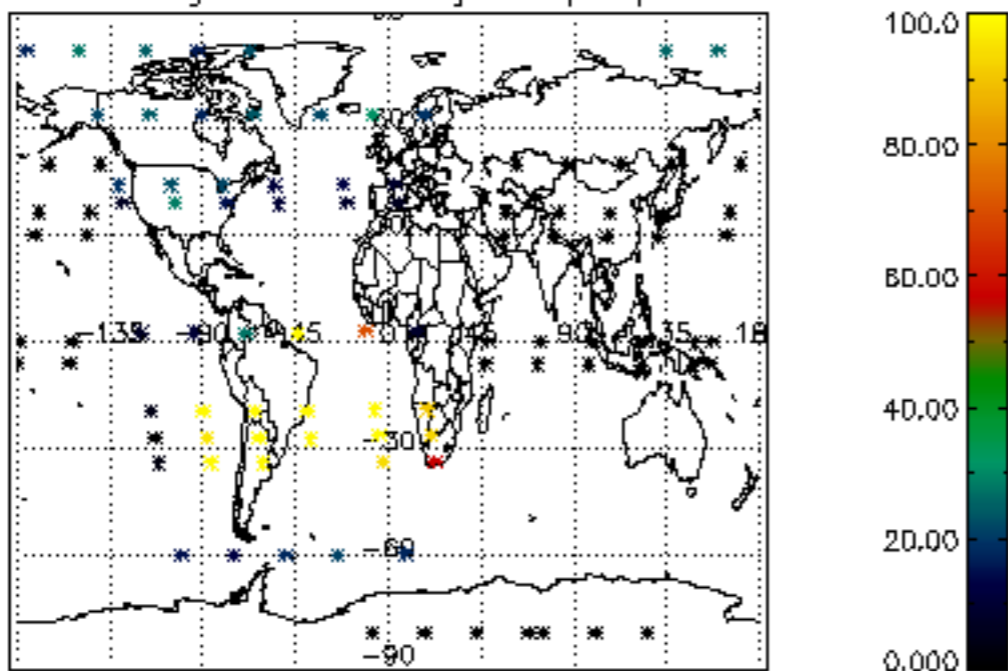




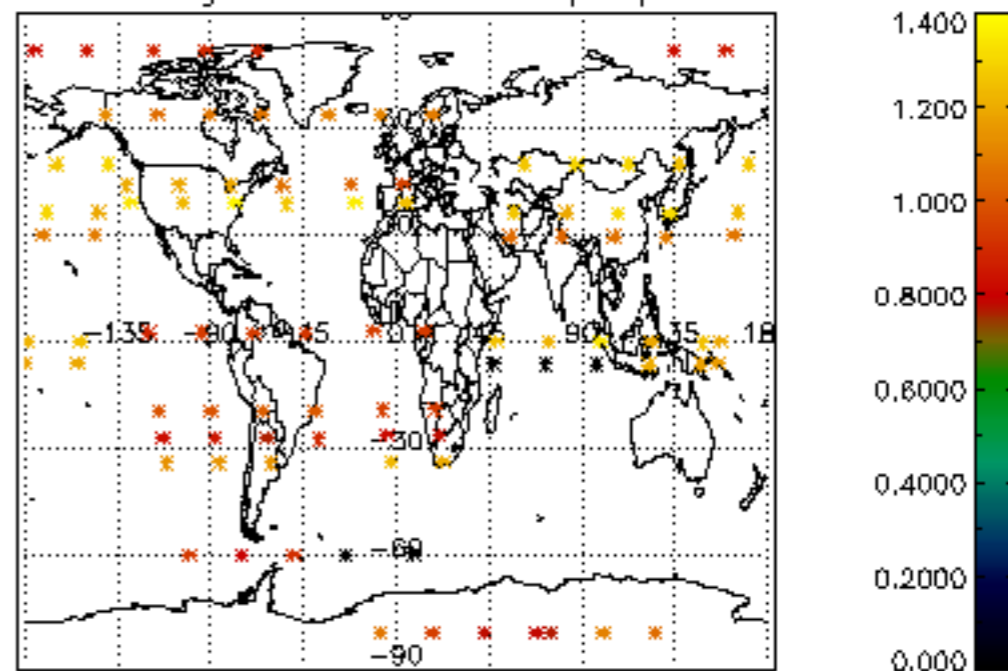




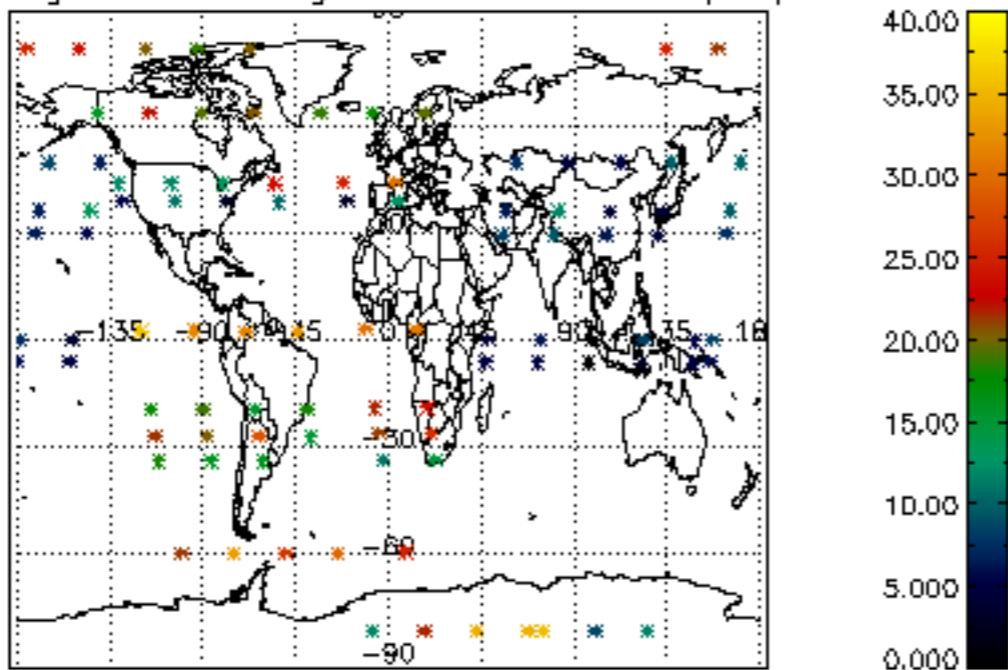
Percentage of cosmic ray hits per profile



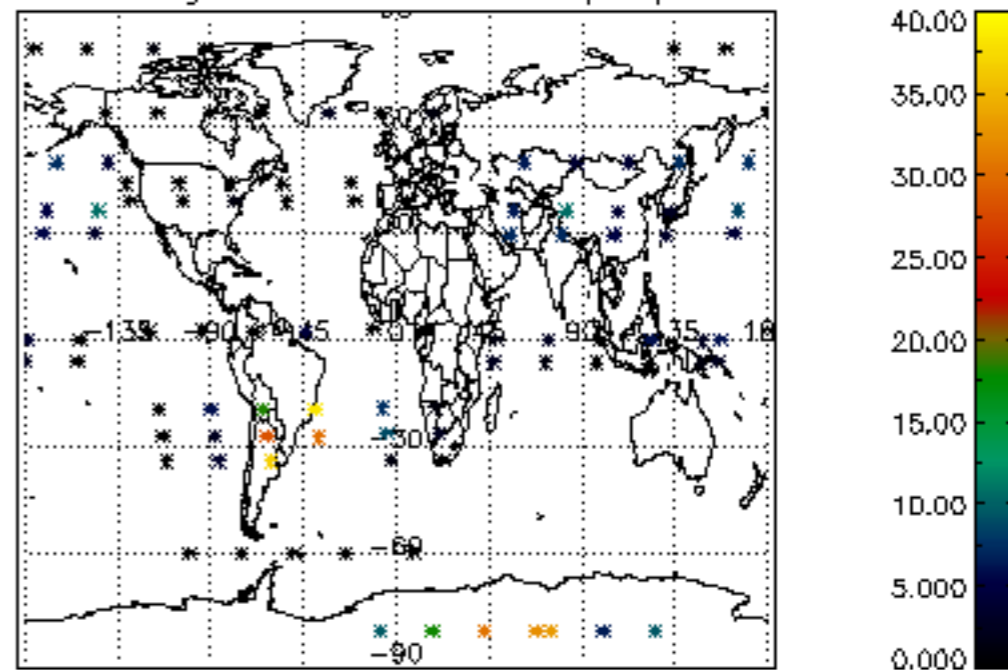
Percentage of datation errors per profile



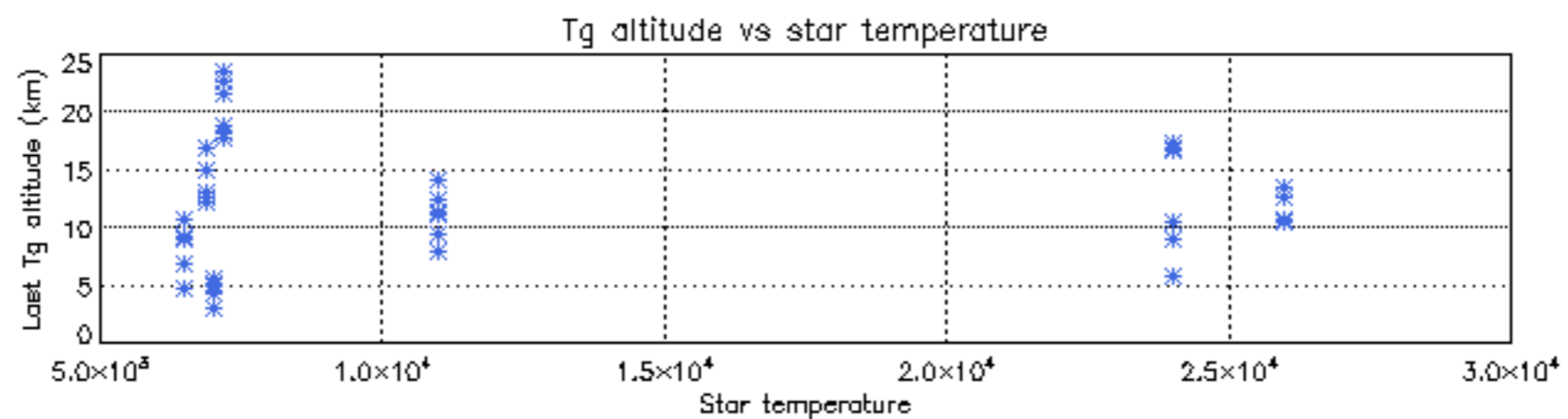
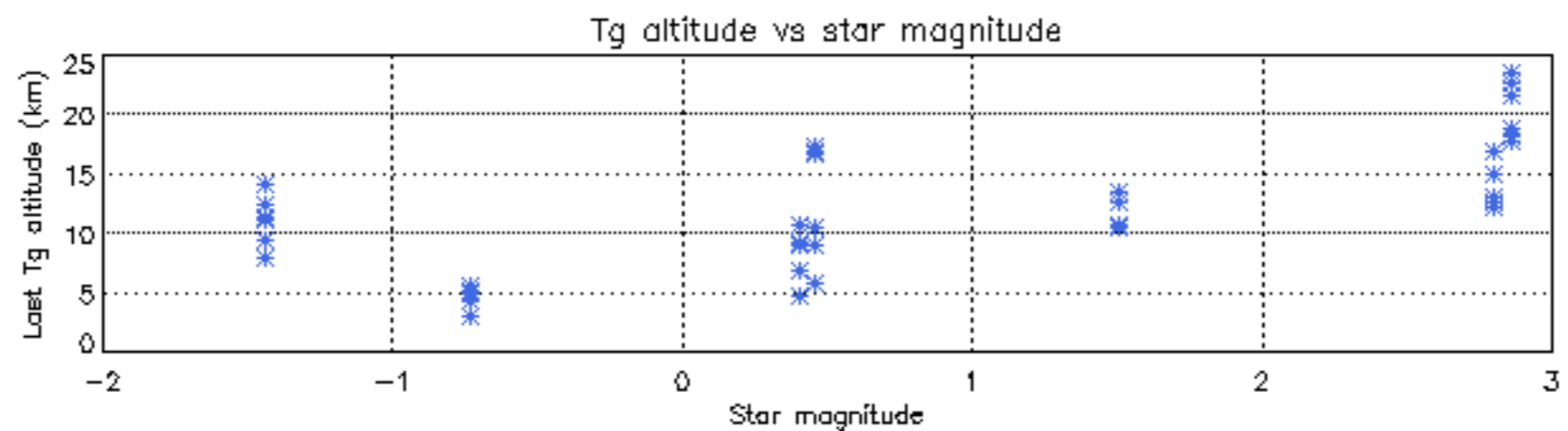
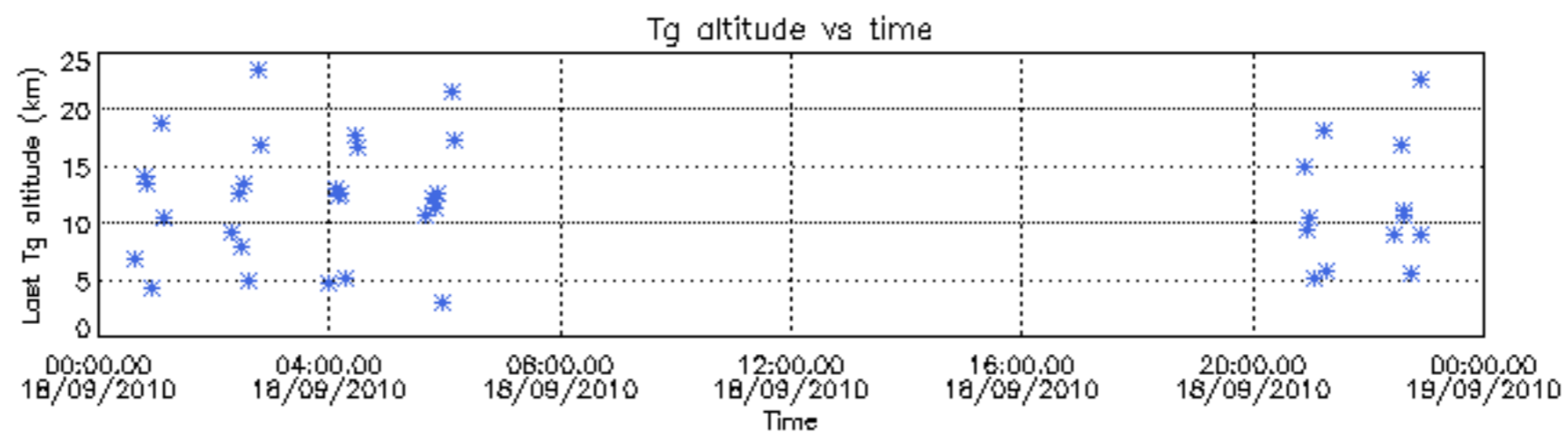
Percentage of star falling outside central band per profile



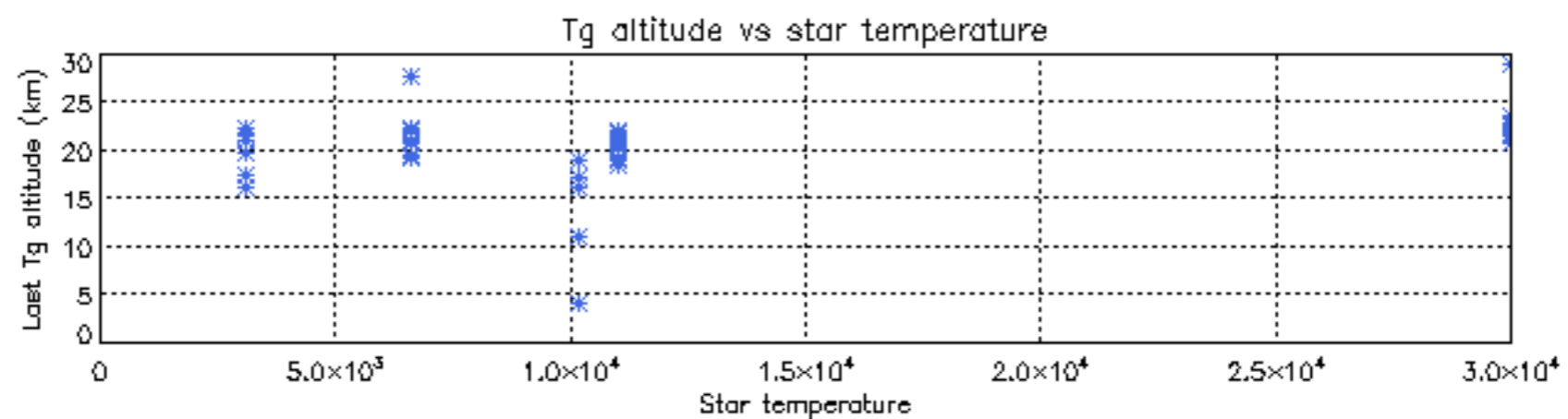
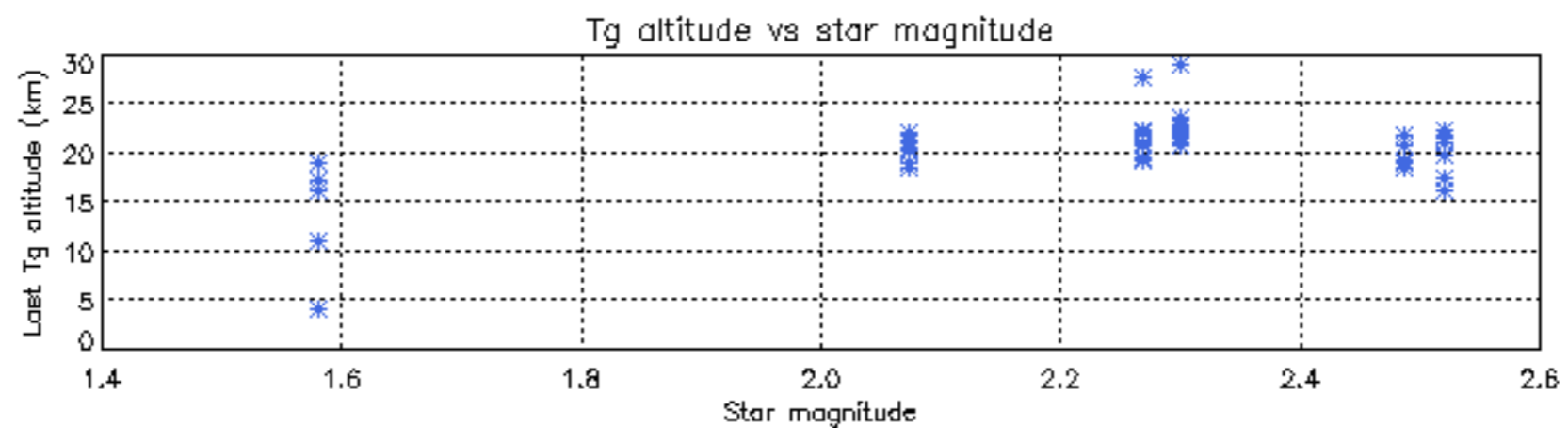
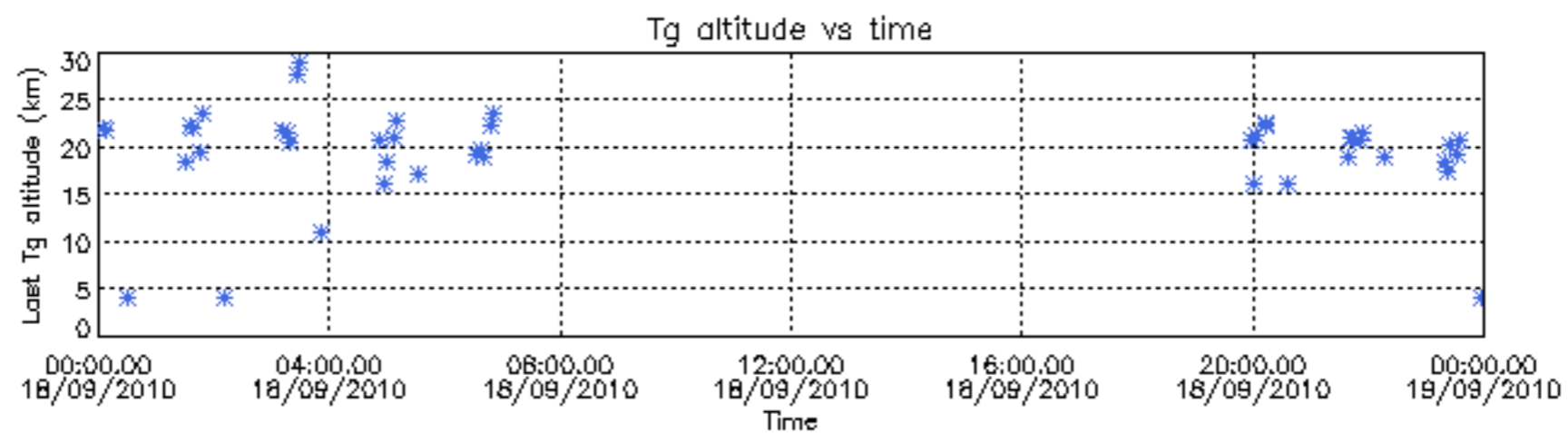
Percentage of saturation errors per profile

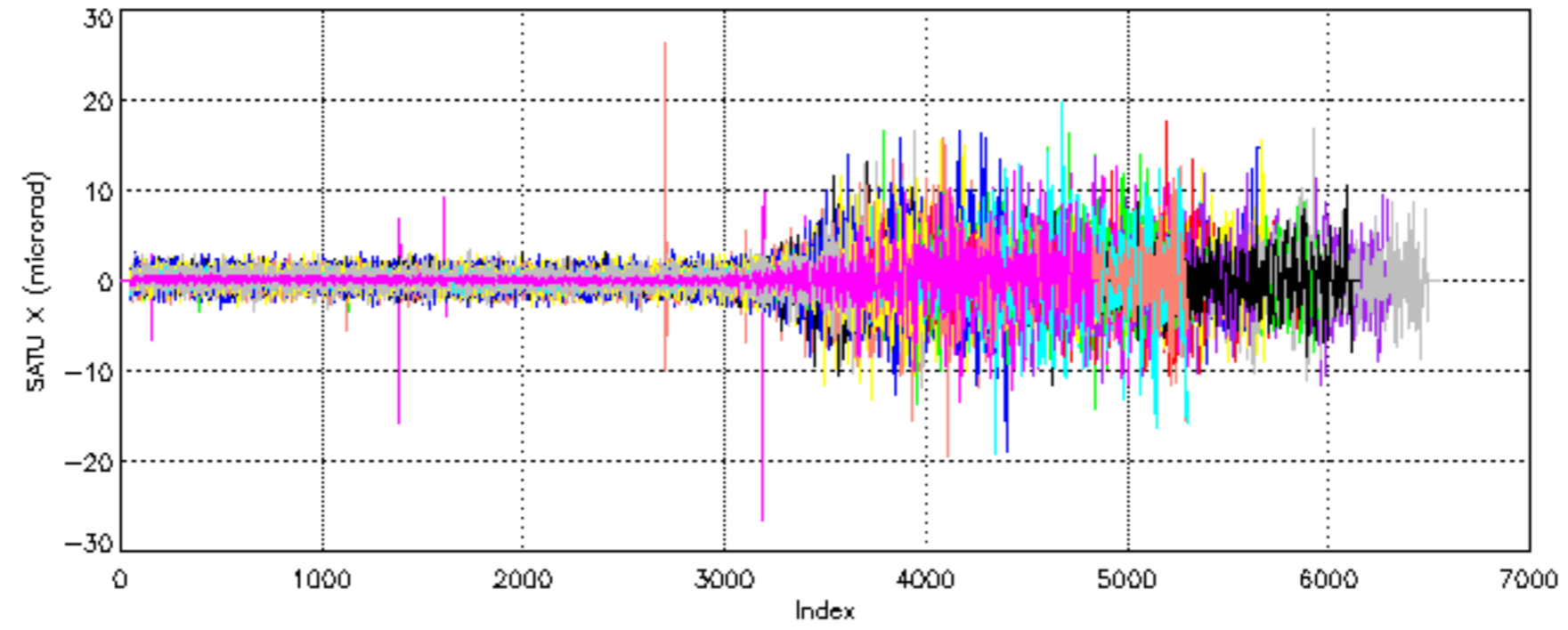


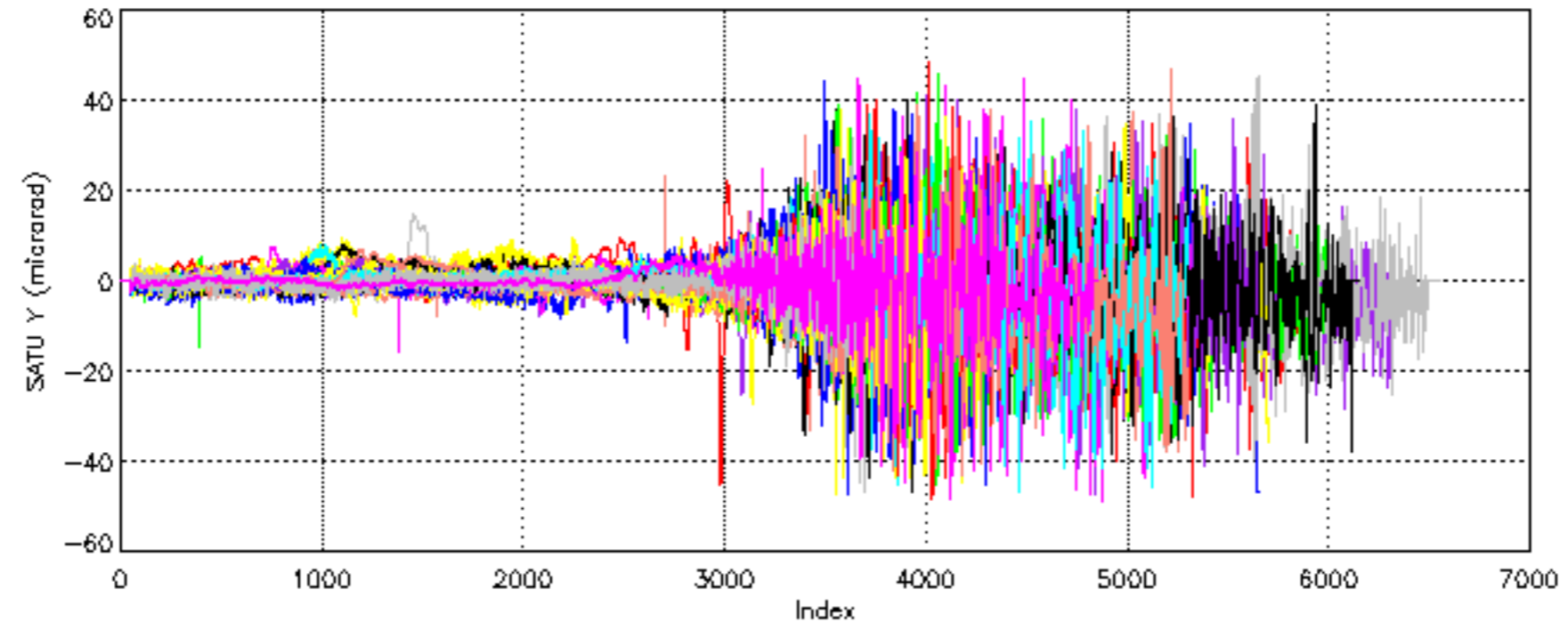
Tangent altitude at which the star is lost

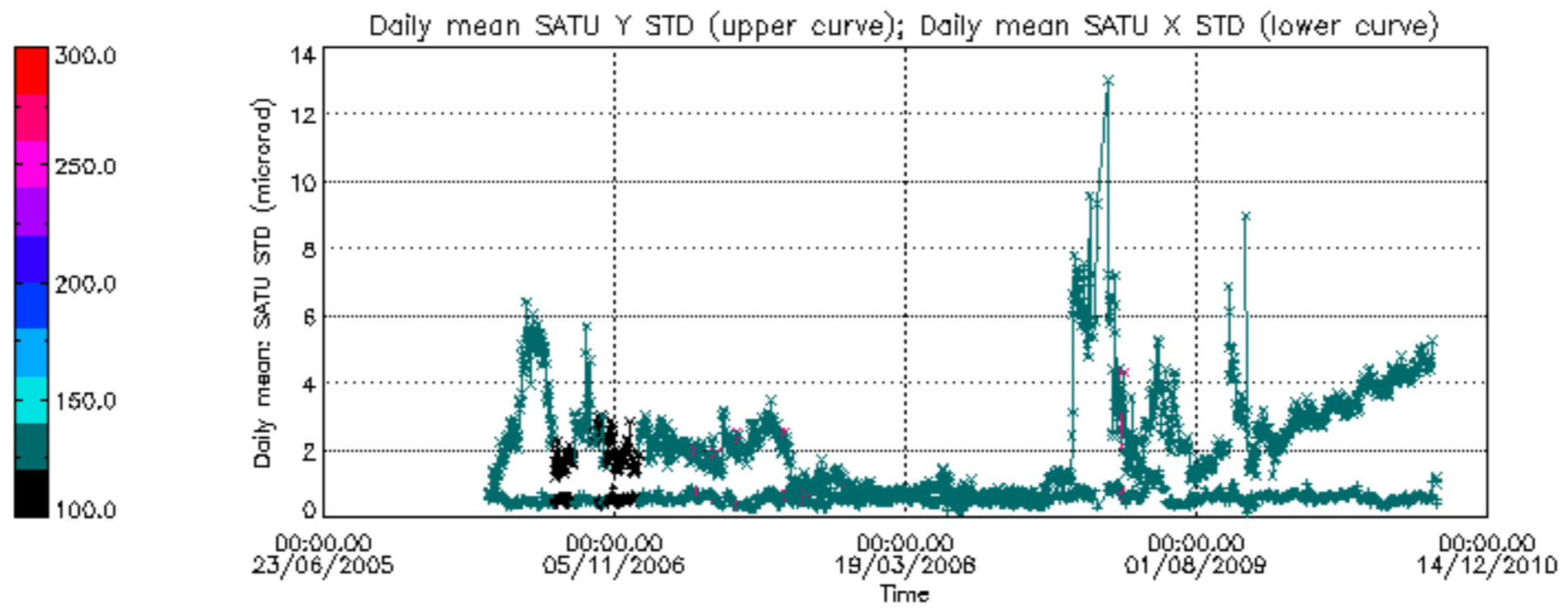


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100901_011807_000013212092_00317_44459_0811.N1

1; -664.1; 01-SEP-2010 01:18:07; Dark ; 50.0; 1; 9Alp CMA ; -1.44; 11000;occ; 100; 0;44459
2; -498.0; 01-SEP-2010 01:20:53; Dark ; 42.0; 23; 21Eps CMA ; 1.50; 26000;occ; 84; 0;44459
3; -356.2; 01-SEP-2010 01:23:15; Dark ; 58.5; 139; 9Bet Lep ; 2.83; 5600;occ; 117; 0;44459
4; -241.6; 01-SEP-2010 01:25:10; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44459
5; 525.7; 01-SEP-2010 01:37:57; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;44460
6; 602.5; 01-SEP-2010 01:39:14; Dark ; 55.0; 9; Alp Eri ; 0.45; 24000;occ; 110; 0;44460

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100901_011807_000092462092_00317_44459_0808.N1

1; -664.1; 01-SEP-2010 01:18:07; Dark ; 50.0; 1; 9Alp CMA ; -1.44; 11000;occ; 100; 0;44459
2; -498.0; 01-SEP-2010 01:20:53; Dark ; 42.0; 23; 21Eps CMA ; 1.50; 26000;occ; 84; 0;44459
3; -356.2; 01-SEP-2010 01:23:15; Dark ; 58.5; 139; 9Bet Lep ; 2.83; 5600;occ; 117; 0;44459
4; -241.6; 01-SEP-2010 01:25:10; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44459
5; 525.7; 01-SEP-2010 01:37:57; Dark ; 41.0; 143; Alp Hyi ; 2.86; 7200;occ; 82; 0;44460
6; 602.5; 01-SEP-2010 01:39:14; Dark ; 55.0; 9; Alp Eri ; 0.45; 24000;occ; 110; 0;44460
7; 960.0; 01-SEP-2010 01:45:11; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;44460
8; 1328.3; 01-SEP-2010 01:51:20; Dark ; 49.0; 18; 24Alp PsA ; 1.17; 9700;occ; 98; 0;44460
9; 1895.5; 01-SEP-2010 02:00:47; Bright; 41.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 82; 0;44460
10; 2075.4; 01-SEP-2010 02:03:47; Bright; 38.5; 61; 8Eps Peg ; 2.10; 3900;occ; 77; 0;44460
11; 2502.6; 01-SEP-2010 02:10:54; Bright; 46.0; 164; 44Eta Peg ; 2.95; 5400;occ; 92; 0;44460
12; 2975.7; 01-SEP-2010 02:18:47; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;44460
13; 3144.6; 01-SEP-2010 02:21:36; Bright; 46.0; 74; 11Bet Cas ; 2.27; 6600;occ; 92; 0;44460
14; 3273.1; 01-SEP-2010 02:23:44; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;44460
15; 4208.2; 01-SEP-2010 02:39:19; Bright; 47.5; 42; 34Bet Aur ; 1.90; 10200;occ; 95; 0;44460
16; 4451.8; 01-SEP-2010 02:43:23; Bright; 37.0; 24; 66Alp Gem ; 1.58; 10200;occ; 74; 0;44460
17; 4685.8; 01-SEP-2010 02:47:17; Dark ; 58.0; 151; 13Mu Gem ; 2.89; 3000;occ; 116; 0;44460
18; 4791.2; 01-SEP-2010 02:49:02; Dark ; 51.5; 44; 24Gam Gem ; 1.93; 11000;occ; 103; 0;44460
19; 4913.8; 01-SEP-2010 02:51:05; Dark ; 53.5; 8; 10Alp CMi ; 0.40; 6500;occ; 107; 0;44460
20; 5372.6; 01-SEP-2010 02:58:44; Dark ; 57.0; 1; 9Alp CMA ; -1.44; 11000;occ; 114; 0;44460
21; 5538.4; 01-SEP-2010 03:01:30; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;44460
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 3; 2459.2; 08-SEP-2010 16:55:26; Bright; 43.0; 164; 44Eta Peg ; 2.95; 5400;occ; 86; 0;44569
 4; 3080.6; 08-SEP-2010 17:05:48; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;44569
 5; 3199.9; 08-SEP-2010 17:07:47; Bright; 45.0; 76; 27Gam Cas ; 2.30; 30000;occ; 90; 0;44569
 6; 4191.5; 08-SEP-2010 17:24:18; Bright; 53.0; 42; 34Bet Aur ; 1.90; 10200;occ; 106; 0;44569
 7; 4467.0; 08-SEP-2010 17:28:54; Bright; 58.0; 24; 66Alp Gem ; 1.58; 10200;occ; 116; 0;44569
 8; 4639.8; 08-SEP-2010 17:31:47; Dark ; 53.0; 170; 27Eps Gem ; 3.00; 9700;occ; 106; 0;44569
 9; 4840.5; 08-SEP-2010 17:35:07; Dark ; 56.5; 44; 24Gam Gem ; 1.93; 11000;occ; 113; 0;44569
 10; 4952.9; 08-SEP-2010 17:37:00; Dark ; 47.5; 8; 10Alp CMi ; 0.40; 6500;occ; 95; 0;44569
 11; 5449.8; 08-SEP-2010 17:45:17; Dark ; 53.0; 1; 9Alp CMA ; -1.44; 11000;occ; 106; 0;44569
 12; 5602.2; 08-SEP-2010 17:47:49; Dark ; 45.0; 23; 21Eps CMA ; 1.50; 26000;occ; 90; 0;44569
 13; 5724.8; 08-SEP-2010 17:49:52; Dark ; 45.0; 177; 1Zet CMA ; 3.02; 26000;occ; 90; 0;44569
 14; 5813.3; 08-SEP-2010 17:51:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44569
 15; 5917.1; 08-SEP-2010 17:53:04; Dark ; 48.0; 108; Alp Col ; 2.65; 15200;occ; 96; 0;44569
 16; 6702.8; 08-SEP-2010 18:06:10; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;44570
 17; 7055.5; 08-SEP-2010 18:12:02; Dark ; 46.0; 84; Alp Phe ; 2.40; 4500;occ; 92; 0;44570

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 2; 2205.1; 08-SEP-2010 18:31:48; Bright; 45.0; 90; 54Alp Peg ; 2.49; 11000;occ; 90; 0;44570
 3; 2458.6; 08-SEP-2010 18:36:02; Bright; 40.5; 164; 44Eta Peg ; 2.95; 5400;occ; 81; 0;44570
 4; 3080.1; 08-SEP-2010 18:46:23; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;44570
 5; 3199.1; 08-SEP-2010 18:48:22; Bright; 44.5; 76; 27Gam Cas ; 2.30; 30000;occ; 89; 0;44570
 6; 4191.3; 08-SEP-2010 19:04:54; Bright; 51.0; 42; 34Bet Aur ; 1.90; 10200;occ; 102; 0;44570
 7; 4467.1; 08-SEP-2010 19:09:30; Bright; 40.5; 24; 66Alp Gem ; 1.58; 10200;occ; 81; 0;44570
 8; 4640.0; 08-SEP-2010 19:12:23; Dark ; 52.5; 170; 27Eps Gem ; 3.00; 9700;occ; 105; 0;44570
 9; 4840.9; 08-SEP-2010 19:15:44; Dark ; 57.0; 44; 24Gam Gem ; 1.93; 11000;occ; 114; 0;44570
 10; 4953.2; 08-SEP-2010 19:17:36; Dark ; 47.0; 8; 10Alp CMi ; 0.40; 6500;occ; 94; 0;44570
 11; 5450.6; 08-SEP-2010 19:25:54; Dark ; 53.5; 1; 9Alp CMA ; -1.44; 11000;occ; 107; 0;44570
 12; 5602.7; 08-SEP-2010 19:28:26; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;44570
 13; 5725.9; 08-SEP-2010 19:30:29; Dark ; 45.0; 177; 1Zet CMA ; 3.02; 26000;occ; 90; 0;44570
 14; 5814.1; 08-SEP-2010 19:31:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44570
 15; 5918.3; 08-SEP-2010 19:33:41; Dark ; 49.0; 108; Alp Col ; 2.65; 15200;occ; 98; 0;44570
 16; 6703.4; 08-SEP-2010 19:46:46; Dark ; 42.0; 9; Alp Eri ; 0.45; 24000;occ; 84; 0;44571

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 2; -431.2; 09-SEP-2010 00:30:15; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;44573
 3; -219.5; 09-SEP-2010 00:33:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44573
 4; 669.1; 09-SEP-2010 00:48:36; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;44574
 5; 1021.3; 09-SEP-2010 00:54:28; Dark ; 48.5; 84; Alp Phe ; 2.40; 4500;occ; 97; 0;44574
 6; 1357.6; 09-SEP-2010 01:00:04; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;44574
 7; 2203.8; 09-SEP-2010 01:14:10; Bright; 45.0; 90; 54Alp Peg ; 2.49; 11000;occ; 90; 0;44574
 8; 2457.2; 09-SEP-2010 01:18:24; Bright; 41.5; 164; 44Eta Peg ; 2.95; 5400;occ; 83; 0;44574
 9; 3077.9; 09-SEP-2010 01:28:44; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;44574
 10; 3196.5; 09-SEP-2010 01:30:43; Bright; 45.0; 76; 27Gam Cas ; 2.30; 30000;occ; 90; 0;44574
 11; 4190.4; 09-SEP-2010 01:47:17; Bright; 49.5; 42; 34Bet Aur ; 1.90; 10200;occ; 99; 0;44574
 12; 4467.5; 09-SEP-2010 01:51:54; Bright; 41.0; 24; 66Alp Gem ; 1.58; 10200;occ; 82; 0;44574
 13; 4641.0; 09-SEP-2010 01:54:48; Dark ; 54.5; 170; 27Eps Gem ; 3.00; 9700;occ; 109; 0;44574
 14; 4843.0; 09-SEP-2010 01:58:10; Dark ; 55.0; 44; 24Gam Gem ; 1.93; 11000;occ; 110; 0;44574
 15; 4954.4; 09-SEP-2010 02:00:01; Dark ; 48.5; 8; 10Alp CMi ; 0.40; 6500;occ; 97; 0;44574

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 2; -430.6; 09-SEP-2010 02:10:52; Dark ; 47.5; 23; 21Eps CMA ; 1.50; 26000;occ; 95; 0;44574
 3; -218.7; 09-SEP-2010 02:14:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44574
 4; 669.4; 09-SEP-2010 02:29:12; Dark ; 53.0; 9; Alp Eri ; 0.45; 24000;occ; 106; 0;44575


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5; 1021.9; 09-SEP-2010 02:35:04; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;44575
6; 1357.8; 09-SEP-2010 02:40:40; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;44575
7; 2203.3; 09-SEP-2010 02:54:46; Bright; 44.0; 90; 54Alp Peg ; 2.49; 11000;occ; 88; 0;44575
8; 2457.2; 09-SEP-2010 02:59:00; Bright; 42.5; 164; 44Eta Peg ; 2.95; 5400;occ; 85; 0;44575
9; 3077.3; 09-SEP-2010 03:09:20; Bright; 43.5; 74; 11Bet Cas ; 2.27; 6600;occ; 87; 0;44575
10; 3195.7; 09-SEP-2010 03:11:18; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44575
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2; -1568.3; 09-SEP-2010 03:32:30; Bright; 41.0; 24; 66Alp Gem ; 1.58; 10200;occ; 82; 0;44575
3; -1394.5; 09-SEP-2010 03:35:24; Dark ; 56.5; 170; 27Eps Gem ; 3.00; 9700;occ; 113; 0;44575
4; -1192.4; 09-SEP-2010 03:38:46; Dark ; 55.0; 44; 24Gam Gem ; 1.93; 11000;occ; 110; 0;44575
5; -1080.9; 09-SEP-2010 03:40:37; Dark ; 58.0; 8; 10Alp CMi ; 0.40; 6500;occ; 116; 0;44575
6; -581.3; 09-SEP-2010 03:48:57; Dark ; 54.0; 1; 9Alp CMA ; -1.44; 11000;occ; 108; 0;44575
7; -430.0; 09-SEP-2010 03:51:28; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;44575
8; -306.0; 09-SEP-2010 03:53:32; Dark ; 45.5; 177; 1Zet CMA ; 3.02; 26000;occ; 91; 0;44575
9; -217.9; 09-SEP-2010 03:55:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44575
10; -112.2; 09-SEP-2010 03:56:46; Dark ; 48.5; 108; Alp Col ; 2.65; 15200;occ; 97; 0;44575
11; 670.4; 09-SEP-2010 04:09:49; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;44576
12; 1022.6; 09-SEP-2010 04:15:41; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;44576
13; 1358.2; 09-SEP-2010 04:21:17; Dark ; 46.5; 18; 24Alp PsA ; 1.17; 9700;occ; 93; 0;44576
14; 2203.6; 09-SEP-2010 04:35:22; Bright; 42.5; 90; 54Alp Peg ; 2.49; 11000;occ; 85; 0;44576
15; 2456.9; 09-SEP-2010 04:39:35; Bright; 40.0; 164; 44Eta Peg ; 2.95; 5400;occ; 80; 0;44576
16; 3076.7; 09-SEP-2010 04:49:55; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;44576
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3; -1394.3; 09-SEP-2010 05:16:00; Dark ; 51.5; 170; 27Eps Gem ; 3.00; 9700;occ; 103; 0;44576
4; -1192.0; 09-SEP-2010 05:19:22; Dark ; 56.5; 44; 24Gam Gem ; 1.93; 11000;occ; 113; 0;44576
5; -1080.4; 09-SEP-2010 05:21:14; Dark ; 55.5; 8; 10Alp CMi ; 0.40; 6500;occ; 111; 0;44576
6; -580.5; 09-SEP-2010 05:29:34; Dark ; 60.5; 1; 9Alp CMA ; -1.44; 11000;occ; 121; 0;44576
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8; -305.1; 09-SEP-2010 05:34:09; Dark ; 44.0; 177; 1Zet CMA ; 3.02; 26000;occ; 88; 0;44576
9; -217.1; 09-SEP-2010 05:35:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44576
10; -111.3; 09-SEP-2010 05:37:23; Dark ; 47.5; 108; Alp Col ; 2.65; 15200;occ; 95; 0;44576
11; 671.1; 09-SEP-2010 05:50:26; Dark ; 45.0; 9; Alp Eri ; 0.45; 24000;occ; 90; 0;44577
12; 1023.1; 09-SEP-2010 05:56:17; Dark ; 43.5; 84; Alp Phe ; 2.40; 4500;occ; 87; 0;44577
13; 1358.4; 09-SEP-2010 06:01:53; Dark ; 45.5; 18; 24Alp PsA ; 1.17; 9700;occ; 91; 0;44577
14; 2203.0; 09-SEP-2010 06:15:57; Bright; 43.0; 90; 54Alp Peg ; 2.49; 11000;occ; 86; 0;44577
15; 2456.9; 09-SEP-2010 06:20:11; Bright; 41.5; 164; 44Eta Peg ; 2.95; 5400;occ; 83; 0;44577
16; 3076.2; 09-SEP-2010 06:30:31; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;44577
17; 3194.9; 09-SEP-2010 06:32:29; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;44577
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2; 4377.8; 09-SEP-2010 21:57:36; Bright; 57.0; 107; 37The Aur ; 2.65; 11000;occ; 114; 0;44586
3; 4849.2; 09-SEP-2010 22:05:27; Dark ; 57.5; 44; 24Gam Gem ; 1.93; 11000;occ; 115; 0;44586
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3; 4377.7; 09-SEP-2010 23:38:11; Bright; 55.0; 107; 37The Aur ; 2.65; 11000;occ; 110; 0;44587
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2; -1567.8; 09-SEP-2010 06:53:43; Bright; 41.0; 24; 66Alp Gem ; 1.58; 10200;occ; 82; 0;44577
3; -1393.9; 09-SEP-2010 06:56:36; Dark ; 55.0; 170; 27Eps Gem ; 3.00; 9700;occ; 110; 0;44577
4; -1191.4; 09-SEP-2010 06:59:59; Dark ; 54.0; 44; 24Gam Gem ; 1.93; 11000;occ; 108; 0;44577
5; -1080.2; 09-SEP-2010 07:01:50; Dark ; 47.0; 8; 10Alp CMi ; 0.40; 6500;occ; 94; 0;44577
6; -579.6; 09-SEP-2010 07:10:11; Dark ; 50.5; 1; 9Alp CMA ; -1.44; 11000;occ; 101; 0;44577
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8; -304.0; 09-SEP-2010 07:14:46; Dark ; 45.5; 177; 1Zet CMA ; 3.02; 26000;occ; 91; 0;44577
9; -216.3; 09-SEP-2010 07:16:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44577
10; -110.1; 09-SEP-2010 07:18:00; Dark ; 47.5; 108; Alp Col ; 2.65; 15200;occ; 95; 0;44577
11; 671.5; 09-SEP-2010 07:31:02; Dark ; 52.5; 9; Alp Eri ; 0.45; 24000;occ; 105; 0;44578
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2; 2456.3; 09-SEP-2010 08:00:47; Bright; 41.5; 164; 44Eta Peg ; 2.95; 5400;occ; 83; 0;44578
3; 3076.1; 09-SEP-2010 08:11:06; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;44578

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6; 4468.2; 09-SEP-2010 08:34:19; Bright; 42.5; 24; 66Alp Gem ; 1.58; 10200;occ; 85; 0;44578
7; 4642.3; 09-SEP-2010 08:37:13; Dark ; 52.5; 170; 27Eps Gem ; 3.00; 9700;occ; 105; 0;44578
8; 4845.2; 09-SEP-2010 08:40:36; Dark ; 57.0; 44; 24Gam Gem ; 1.93; 11000;occ; 114; 0;44578
9; 4956.2; 09-SEP-2010 08:42:27; Dark ; 49.5; 8; 10Alp CMi ; 0.40; 6500;occ; 99; 0;44578
10; 5457.5; 09-SEP-2010 08:50:48; Dark ; 55.5; 1; 9Alp CMA ; -1.44; 11000;occ; 111; 0;44578
11; 5608.3; 09-SEP-2010 08:53:19; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;44578
12; 5732.9; 09-SEP-2010 08:55:23; Dark ; 46.5; 177; 1Zet CMA ; 3.02; 26000;occ; 93; 0;44578
13; 5820.5; 09-SEP-2010 08:56:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44578
14; 5926.7; 09-SEP-2010 08:58:37; Dark ; 49.0; 108; Alp Col ; 2.65; 15200;occ; 98; 0;44578
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2; 2615.4; 09-SEP-2010 11:24:38; Bright; 51.5; 58; 21Alp And ; 2.07; 11000;occ; 103; 0;44580
3; 3015.7; 09-SEP-2010 11:31:18; Bright; 72.5; 53; 43Bet And ; 2.05; 3300;occ; 145; 0;44580
4; 3260.5; 09-SEP-2010 11:35:23; Bright; 45.5; 110; 37Del Cas ; 2.68; 8900;occ; 91; 0;44580
5; 3391.3; 09-SEP-2010 11:37:33; Bright; 77.5; 73; 57Gam1And ; 2.26; 13100;occ; 155; 0;44580
6; 3593.4; 09-SEP-2010 11:40:55; Bright; 58.0; 160; 23Gam Per ; 2.93; 4700;occ; 116; 0;44580
7; 3719.8; 09-SEP-2010 11:43:02; Bright; 68.5; 35; 33Alp Per ; 1.79; 6250;occ; 137; 0;44580
8; 3834.2; 09-SEP-2010 11:44:56; Bright; 68.0; 175; 39Del Per ; 3.01; 19400;occ; 136; 0;44580
9; 4118.1; 09-SEP-2010 11:49:40; Bright; 65.0; 6; 13Alp Aur ; 0.08; 3400;occ; 130; 0;44580
10; 4378.0; 09-SEP-2010 11:54:00; Bright; 78.0; 107; 37The Aur ; 2.65; 11000;occ; 156; 0;44580
11; 4649.8; 09-SEP-2010 11:58:32; Dark ; 81.5; 28; 12Bet Tau ; 1.65; 15200;occ; 163; 0;44580
12; 4846.3; 09-SEP-2010 12:01:48; Dark ; 56.5; 44; 24Gam Gem ; 1.93; 11000;occ; 113; 0;44580
13; 5189.9; 09-SEP-2010 12:07:32; Dark ; 100.0; 14; 58Alp Ori ; 0.87; 3000;occ; 200; 0;44580
14; 5406.7; 09-SEP-2010 12:11:09; Dark ; 26.5; 27; 24Gam Ori ; 1.64; 26000;occ; 53; 0;44580
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3; 3589.5; 09-SEP-2010 18:23:15; Bright; 59.5; 160; 23Gam Per ; 2.93; 4700;occ; 119; 0;44584
4; 4116.7; 09-SEP-2010 18:32:03; Bright; 61.0; 6; 13Alp Aur ; 0.08; 3400;occ; 122; 0;44584
5; 4378.0; 09-SEP-2010 18:36:24; Bright; 49.0; 107; 37The Aur ; 2.65; 11000;occ; 98; 0;44584
6; 5954.5; 09-SEP-2010 19:02:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44584
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2; 2610.5; 09-SEP-2010 19:47:32; Bright; 55.5; 58; 21Alp And ; 2.07; 11000;occ; 111; 0;44585
3; 4116.1; 09-SEP-2010 20:12:38; Bright; 68.0; 6; 13Alp Aur ; 0.08; 3400;occ; 136; 0;44585
4; 4377.8; 09-SEP-2010 20:17:00; Bright; 54.0; 107; 37The Aur ; 2.65; 11000;occ; 108; 0;44585
5; 5955.8; 09-SEP-2010 20:43:18; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44585
6; 6666.5; 09-SEP-2010 20:55:08; Dark ; 37.0; 157; The1Eri ; 2.91; 9300;occ; 74; 0;44586
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2; 2608.2; 10-SEP-2010 00:49:18; Bright; 52.5; 58; 21Alp And ; 2.07; 11000;occ; 105; 0;44588
3; 4114.8; 10-SEP-2010 01:14:24; Bright; 68.5; 6; 13Alp Aur ; 0.08; 3400;occ; 137; 0;44588
4; 4377.7; 10-SEP-2010 01:18:47; Bright; 56.5; 107; 37The Aur ; 2.65; 11000;occ; 113; 0;44588
5; 4850.3; 10-SEP-2010 01:26:40; Dark ; 57.5; 44; 24Gam Gem ; 1.93; 11000;occ; 115; 0;44588
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3; -74.4; 10-SEP-2010 03:25:47; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44589
4; 635.2; 10-SEP-2010 03:37:36; Dark ; 22.5; 157; The1Eri ; 2.91; 9300;occ; 45; 0;44590
5; 1514.3; 10-SEP-2010 03:52:16; Dark ; 68.0; 52; 16Bet Cet ; 2.04; 4500;occ; 136; 0;44590
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3; 637.0; 10-SEP-2010 06:58:50; Dark ; 55.5; 157; The1Eri ; 2.91; 9300;occ; 111; 0;44592

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3; 638.9; 10-SEP-2010 08:39:28; Dark ; 53.0; 157; The1Eri ; 2.91; 9300;occ; 106; 0;44593
4; 1514.7; 10-SEP-2010 08:54:04; Dark ; 65.5; 52; 16Bet Cet ; 2.04; 4500;occ; 131; 0;44593
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3; 4377.5; 10-SEP-2010 09:41:47; Bright; 34.5; 107; 37The Aur ; 2.65; 11000;occ; 69; 0;44593
4; 5967.2; 10-SEP-2010 10:08:16; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44593
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3; 3704.6; 10-SEP-2010 11:11:10; Bright; 66.0; 35; 33Alp Per ; 1.79; 6250;occ; 132; 0;44594
4; 4112.3; 10-SEP-2010 11:17:57; Bright; 17.5; 6; 13Alp Aur ; 0.08; 3400;occ; 35; 0;44594
5; 4377.7; 10-SEP-2010 11:22:23; Bright; 14.5; 107; 37The Aur ; 2.65; 11000;occ; 29; 0;44594
6; 4854.0; 10-SEP-2010 11:30:19; Dark ; 48.0; 44; 24Gam Gem ; 1.93; 11000;occ; 96; 0;44594
7; 5968.6; 10-SEP-2010 11:48:54; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44594
8; 6677.0; 10-SEP-2010 12:00:42; Dark ; 57.5; 157; The1Eri ; 2.91; 9300;occ; 115; 0;44595
9; 7550.4; 10-SEP-2010 12:15:15; Dark ; 71.0; 52; 16Bet Cet ; 2.04; 4500;occ; 142; 0;44595
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3; 3536.5; 13-SEP-2010 09:33:30; Bright; 59.5; 160; 23Gam Per ; 2.93; 4700;occ; 119; 0;44636
4; 4376.0; 13-SEP-2010 09:47:30; Bright; 57.0; 107; 37The Aur ; 2.65; 11000;occ; 114; 0;44636
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3; 2177.8; 16-SEP-2010 21:00:48; Bright; 38.5; 90; 54Alp Peg ; 2.49; 11000;occ; 77; 0;44686
4; 2409.2; 16-SEP-2010 21:04:39; Bright; 38.0; 93; 53Bet Peg ; 2.52; 3100;occ; 76; 0;44686
5; 2530.2; 16-SEP-2010 21:06:40; Bright; 43.0; 58; 21Alp And ; 2.07; 11000;occ; 86; 0;44686
6; 3023.0; 16-SEP-2010 21:14:53; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44686
7; 3129.8; 16-SEP-2010 21:16:40; Bright; 45.0; 76; 27Gam Cas ; 2.30; 30000;occ; 90; 0;44686
8; 4482.9; 16-SEP-2010 21:39:13; Bright; 44.5; 24; 66Alp Gem ; 1.58; 10200;occ; 89; 0;44686
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3; -345.0; 16-SEP-2010 21:59:21; Dark ; 49.0; 23; 21Eps CMa ; 1.50; 26000;occ; 98; 0;44686
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6; 643.1; 16-SEP-2010 22:15:49; Dark ; 41.5; 143; Alp Hyi ; 2.86; 7200;occ; 83; 0;44687
7; 728.9; 16-SEP-2010 22:17:15; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;44687
8; 1071.7; 16-SEP-2010 22:22:57; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;44687
9; 1528.8; 16-SEP-2010 22:30:34; Dark ; 42.0; 52; 16Bet Cet ; 2.04; 4500;occ; 84; 0;44687
10; 2177.6; 16-SEP-2010 22:41:23; Bright; 40.5; 90; 54Alp Peg ; 2.49; 11000;occ; 81; 0;44687

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13; 3022.5; 16-SEP-2010 22:55:28; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;44687
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 3; 1069.1; 16-SEP-2010 10:38:43; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;44680
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 7; 5450.5; 16-SEP-2010 11:51:45; Dark ; 39.0; 132; 15Rho Pup ; 2.80; 6900;occ; 78; 0;44680
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 4; 3132.7; 16-SEP-2010 12:53:43; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;44681
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 6; 5005.4; 16-SEP-2010 13:24:55; Dark ; 52.5; 8; 10Alp CMi ; 0.40; 6500;occ; 105; 0;44681
 7; 5451.2; 16-SEP-2010 13:32:21; Dark ; 41.0; 132; 15Rho Pup ; 2.80; 6900;occ; 82; 0;44681
 8; 5555.0; 16-SEP-2010 13:34:05; Dark ; 70.0; 1; 9Alp CMa ; -1.44; 11000;occ; 140; 0;44681
 9; 5670.8; 16-SEP-2010 13:36:01; Dark ; 30.0; 47; 2Bet CMa ; 1.98; 28000;occ; 60; 0;44681
10; 5748.5; 16-SEP-2010 13:37:19; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;44681
11; 5910.1; 16-SEP-2010 13:40:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44681
12; 6061.8; 16-SEP-2010 13:42:32; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;44682
13; 6676.8; 16-SEP-2010 13:52:47; Dark ; 39.0; 143; Alp Hyi ; 2.86; 7200;occ; 78; 0;44682
14; 6762.4; 16-SEP-2010 13:54:12; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;44682
15; 7105.9; 16-SEP-2010 13:59:56; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;44682
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 3; 2410.4; 16-SEP-2010 14:22:16; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;44682
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 7; 4482.5; 16-SEP-2010 14:56:48; Bright; 41.5; 24; 66Alp Gem ; 1.58; 10200;occ; 83; 0;44682
 8; 5006.1; 16-SEP-2010 15:05:32; Dark ; 57.0; 8; 10Alp CMi ; 0.40; 6500;occ; 114; 0;44682
 9; 5451.7; 16-SEP-2010 15:12:58; Dark ; 42.5; 132; 15Rho Pup ; 2.80; 6900;occ; 85; 0;44682
10; 5556.3; 16-SEP-2010 15:14:42; Dark ; 71.0; 1; 9Alp CMa ; -1.44; 11000;occ; 142; 0;44682
11; 5687.7; 16-SEP-2010 15:16:54; Dark ; 46.5; 23; 21Eps CMa ; 1.50; 26000;occ; 93; 0;44682
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13; 6062.4; 16-SEP-2010 15:23:08; Dark ; 55.5; 2; Alp Car ; -0.74; 7000;occ; 111; 0;44683
14; 6677.2; 16-SEP-2010 15:33:23; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;44683
15; 6762.9; 16-SEP-2010 15:34:49; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;44683
16; 7106.1; 16-SEP-2010 15:40:32; Dark ; 46.5; 84; Alp Phe ; 2.40; 4500;occ; 93; 0;44683
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9; 1095.7; 21-SEP-2010 08:01:04; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;44750
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13; 6108.3; 21-SEP-2010 14:26:24; Dark ; 54.5; 2; Alp Car ; -0.74; 7000;occ; 109; 0;44754

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7; 3084.6; 22-SEP-2010 21:27:23; Bright; 43.5; 76; 27Gam Cas ; 2.30; 30000;occ; 87; 0;44772
8; 4494.9; 22-SEP-2010 21:50:54; Bright; 48.0; 24; 66Alp Gem ; 1.58; 10200;occ; 96; 0;44772
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8; 1541.1; 22-SEP-2010 22:42:16; Dark ; 55.0; 52; 16Bet Cet ; 2.04; 4500;occ; 110; 0;44773
9; 2168.2; 22-SEP-2010 22:52:43; Bright; 38.0; 90; 54Alp Peg ; 2.49; 11000;occ; 76; 0;44773
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5; 3088.1; 22-SEP-2010 09:43:15; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44765
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13; 6119.3; 22-SEP-2010 17:16:10; Dark ; 45.0; 2; Alp Car ;-0.74; 7000;occ; 90; 0;44770
14; 6804.3; 22-SEP-2010 17:27:35; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;44770
15; 7138.8; 22-SEP-2010 17:33:10; Dark ; 45.0; 84; Alp Phe ; 2.40; 4500;occ; 90; 0;44770
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2; 1540.7; 22-SEP-2010 17:40:27; Dark ; 56.0; 52; 16Bet Cet ; 2.04; 4500;occ; 112; 0;44770
3; 2168.5; 22-SEP-2010 17:50:55; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;44770
4; 2393.6; 22-SEP-2010 17:54:40; Bright; 38.5; 93; 53Bet Peg ; 2.52; 3100;occ; 77; 0;44770
5; 2482.0; 22-SEP-2010 17:56:09; Bright; 45.0; 58; 21Alp And ; 2.07; 11000;occ; 90; 0;44770
6; 2989.3; 22-SEP-2010 18:04:36; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44770
7; 3085.7; 22-SEP-2010 18:06:12; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44770
8; 4494.5; 22-SEP-2010 18:29:41; Bright; 56.0; 24; 66Alp Gem ; 1.58; 10200;occ; 112; 0;44770
9; 5060.1; 22-SEP-2010 18:39:07; Dark ; 55.0; 8; 10Alp CMI ; 0.40; 6500;occ; 110; 0;44770
10; 5500.1; 22-SEP-2010 18:46:27; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;44770

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11; 5700.3; 22-SEP-2010 18:49:47; Dark ; 50.5; 37; 25Del CMA ; 1.83; 5900;occ; 101; 0;44770
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13; 5998.6; 22-SEP-2010 18:54:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44770
14; 6119.9; 22-SEP-2010 18:56:47; Dark ; 53.5; 2; Alp Car ; -0.74; 7000;occ; 107; 0;44771
15; 6804.7; 22-SEP-2010 19:08:11; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;44771
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 3; 2168.5; 22-SEP-2010 19:31:31; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;44771
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 5; 2481.4; 22-SEP-2010 19:36:44; Bright; 44.5; 58; 21Alp And ; 2.07; 11000;occ; 89; 0;44771
 6; 2988.9; 22-SEP-2010 19:45:12; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44771
 7; 3085.1; 22-SEP-2010 19:46:48; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;44771
 8; 4494.6; 22-SEP-2010 20:10:17; Bright; 49.5; 24; 66Alp Gem ; 1.58; 10200;occ; 99; 0;44771
 9; 5060.7; 22-SEP-2010 20:19:43; Dark ; 55.0; 8; 10Alp CMI ; 0.40; 6500;occ; 110; 0;44771
10; 5500.6; 22-SEP-2010 20:27:03; Dark ; 42.0; 132; 15Rho Pup ; 2.80; 6900;occ; 84; 0;44771
11; 5701.2; 22-SEP-2010 20:30:24; Dark ; 56.5; 37; 25Del CMA ; 1.83; 5900;occ; 113; 0;44771
12; 5812.7; 22-SEP-2010 20:32:16; Dark ; 52.5; 117; Pi Pup ; 2.71; 3800;occ; 105; 0;44771
13; 5999.6; 22-SEP-2010 20:35:22; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44771
14; 6120.3; 22-SEP-2010 20:37:23; Dark ; 58.0; 2; Alp Car ; -0.74; 7000;occ; 116; 0;44772
15; 6805.0; 22-SEP-2010 20:48:48; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;44772
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 2; -331.8; 23-SEP-2010 01:32:14; Dark ; 51.5; 37; 25Del CMA ; 1.83; 5900;occ; 103; 0;44774
 3; -220.7; 23-SEP-2010 01:34:06; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;44774
 4; -33.2; 23-SEP-2010 01:37:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44774
 5; 86.6; 23-SEP-2010 01:39:13; Dark ; 56.5; 2; Alp Car ; -0.74; 7000;occ; 113; 0;44775
 6; 770.4; 23-SEP-2010 01:50:37; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;44775
 7; 1104.5; 23-SEP-2010 01:56:11; Dark ; 44.0; 84; Alp Phe ; 2.40; 4500;occ; 88; 0;44775
 8; 1541.3; 23-SEP-2010 02:03:28; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;44775
 9; 2167.9; 23-SEP-2010 02:13:54; Bright; 37.5; 90; 54Alp Peg ; 2.49; 11000;occ; 75; 0;44775
10; 2392.9; 23-SEP-2010 02:17:39; Bright; 39.5; 93; 53Bet Peg ; 2.52; 3100;occ; 79; 0;44775
11; 2479.5; 23-SEP-2010 02:19:06; Bright; 43.5; 58; 21Alp And ; 2.07; 11000;occ; 87; 0;44775
12; 2987.5; 23-SEP-2010 02:27:34; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;44775
13; 3083.1; 23-SEP-2010 02:29:09; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;44775
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 2; -972.4; 23-SEP-2010 03:02:10; Dark ; 60.0; 8; 10Alp CMI ; 0.40; 6500;occ; 120; 0;44775
 3; -532.8; 23-SEP-2010 03:09:29; Dark ; 44.5; 132; 15Rho Pup ; 2.80; 6900;occ; 89; 0;44775
 4; -330.9; 23-SEP-2010 03:12:51; Dark ; 49.0; 37; 25Del CMA ; 1.83; 5900;occ; 98; 0;44775
 5; -219.9; 23-SEP-2010 03:14:42; Dark ; 49.0; 117; Pi Pup ; 2.71; 3800;occ; 98; 0;44775
 6; -32.1; 23-SEP-2010 03:17:50; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44775
 7; 87.3; 23-SEP-2010 03:19:49; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;44776
 8; 771.0; 23-SEP-2010 03:31:13; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;44776
 9; 1105.0; 23-SEP-2010 03:36:47; Dark ; 45.5; 84; Alp Phe ; 2.40; 4500;occ; 91; 0;44776
10; 1541.6; 23-SEP-2010 03:44:04; Dark ; 54.0; 52; 16Bet Cet ; 2.04; 4500;occ; 108; 0;44776
11; 2168.1; 23-SEP-2010 03:54:30; Bright; 38.0; 90; 54Alp Peg ; 2.49; 11000;occ; 76; 0;44776
12; 2392.9; 23-SEP-2010 03:58:15; Bright; 37.0; 93; 53Bet Peg ; 2.52; 3100;occ; 74; 0;44776
13; 2479.0; 23-SEP-2010 03:59:41; Bright; 45.5; 58; 21Alp And ; 2.07; 11000;occ; 91; 0;44776
14; 2987.2; 23-SEP-2010 04:08:09; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44776
15; 3082.9; 23-SEP-2010 04:09:45; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44776
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 2; -971.8; 23-SEP-2010 04:42:46; Dark ; 60.5; 8; 10Alp CMI ; 0.40; 6500;occ; 121; 0;44776
 3; -532.4; 23-SEP-2010 04:50:06; Dark ; 45.0; 132; 15Rho Pup ; 2.80; 6900;occ; 90; 0;44776
 4; -342.5; 23-SEP-2010 04:53:16; Dark ; 48.0; 88; 31Eta CMA ; 2.45; 20000;occ; 96; 0;44776
 5; -260.4; 23-SEP-2010 04:54:38; Dark ; 53.0; 23; 21Eps CMA ; 1.50; 26000;occ; 106; 0;44776
 6; -121.5; 23-SEP-2010 04:56:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44776
 7; 5.4; 23-SEP-2010 04:59:04; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;44776
 8; 87.9; 23-SEP-2010 05:00:26; Dark ; 57.5; 2; Alp Car ; -0.74; 7000;occ; 115; 0;44777
 9; 771.5; 23-SEP-2010 05:11:50; Dark ; 51.5; 9; Alp Eri ; 0.45; 24000;occ; 103; 0;44777
10; 1105.3; 23-SEP-2010 05:17:23; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;44777
11; 1541.6; 23-SEP-2010 05:24:40; Dark ; 54.0; 52; 16Bet Cet ; 2.04; 4500;occ; 108; 0;44777
12; 2168.0; 23-SEP-2010 05:35:06; Bright; 37.5; 90; 54Alp Peg ; 2.49; 11000;occ; 75; 0;44777
13; 2392.9; 23-SEP-2010 05:38:51; Bright; 40.5; 93; 53Bet Peg ; 2.52; 3100;occ; 81; 0;44777
14; 2478.6; 23-SEP-2010 05:40:17; Bright; 43.0; 58; 21Alp And ; 2.07; 11000;occ; 86; 0;44777
15; 2986.6; 23-SEP-2010 05:48:45; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44777
16; 3082.2; 23-SEP-2010 05:50:20; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44777

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1;	1542.4;	23-SEP-2010	15:28:16;	Dark	;	54.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	108;	0;	44783
2;	2167.7;	23-SEP-2010	15:38:41;	Bright;	;	38.5;	90;	54Alp	Peg	;	2.49;	11000;	occ;	77;	0;	44783
3;	2392.2;	23-SEP-2010	15:42:26;	Bright;	;	39.5;	93;	53Bet	Peg	;	2.52;	3100;	occ;	79;	0;	44783
4;	2475.7;	23-SEP-2010	15:43:49;	Bright;	;	43.0;	58;	21Alp	And	;	2.07;	11000;	occ;	86;	0;	44783
5;	2984.7;	23-SEP-2010	15:52:18;	Bright;	;	37.5;	74;	11Bet	Cas	;	2.27;	6600;	occ;	75;	0;	44783
6;	3079.6;	23-SEP-2010	15:53:53;	Bright;	;	41.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	83;	0;	44783
7;	4496.5;	23-SEP-2010	16:17:30;	Bright;	;	47.5;	24;	66Alp	Gem	;	1.58;	10200;	occ;	95;	0;	44783
8;	5069.5;	23-SEP-2010	16:27:03;	Dark	;	69.0;	8;	10Alp	CMI	;	0.40;	6500;	occ;	138;	0;	44783
9;	5508.2;	23-SEP-2010	16:34:22;	Dark	;	40.5;	132;	15Rho	Pup	;	2.80;	6900;	occ;	81;	0;	44783
10;	5681.4;	23-SEP-2010	16:37:15;	Dark	;	67.0;	1;	9Alp	CMA	;	-1.44;	11000;	occ;	134;	0;	44783
11;	5782.9;	23-SEP-2010	16:38:56;	Dark	;	46.5;	23;	21Eps	CMA	;	1.50;	26000;	occ;	93;	0;	44783
12;	5919.0;	23-SEP-2010	16:41:13;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	44783
13;	6046.0;	23-SEP-2010	16:43:20;	Dark	;	43.0;	161;	Tau	Pup	;	2.93;	4500;	occ;	86;	0;	44784
14;	6183.2;	23-SEP-2010	16:45:37;	Dark	;	54.0;	108;	Alp	Col	;	2.65;	15200;	occ;	108;	0;	44784
15;	6864.6;	23-SEP-2010	16:56:58;	Dark	;	51.5;	157;	The1Eri		;	2.91;	9300;	occ;	103;	0;	44784
16;	7143.8;	23-SEP-2010	17:01:37;	Dark	;	45.0;	84;	Alp	Phe	;	2.40;	4500;	occ;	90;	0;	44784

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2;	2167.8;	23-SEP-2010	17:19:17;	Bright;	;	38.0;	90;	54Alp	Peg	;	2.49;	11000;	occ;	76;	0;	44784
3;	2391.8;	23-SEP-2010	17:23:01;	Bright;	;	40.5;	93;	53Bet	Peg	;	2.52;	3100;	occ;	81;	0;	44784
4;	2475.3;	23-SEP-2010	17:24:25;	Bright;	;	43.0;	58;	21Alp	And	;	2.07;	11000;	occ;	86;	0;	44784
5;	2984.2;	23-SEP-2010	17:32:54;	Bright;	;	40.5;	74;	11Bet	Cas	;	2.27;	6600;	occ;	81;	0;	44784
6;	3079.0;	23-SEP-2010	17:34:29;	Bright;	;	40.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	81;	0;	44784
7;	4496.5;	23-SEP-2010	17:58:06;	Bright;	;	49.5;	24;	66Alp	Gem	;	1.58;	10200;	occ;	99;	0;	44784
8;	5070.1;	23-SEP-2010	18:07:40;	Dark	;	63.5;	8;	10Alp	CMI	;	0.40;	6500;	occ;	127;	0;	44784
9;	5508.9;	23-SEP-2010	18:14:58;	Dark	;	42.0;	132;	15Rho	Pup	;	2.80;	6900;	occ;	84;	0;	44784
10;	5682.8;	23-SEP-2010	18:17:52;	Dark	;	61.0;	1;	9Alp	CMA	;	-1.44;	11000;	occ;	122;	0;	44784
11;	5783.8;	23-SEP-2010	18:19:33;	Dark	;	54.0;	23;	21Eps	CMA	;	1.50;	26000;	occ;	108;	0;	44784
12;	5919.7;	23-SEP-2010	18:21:49;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	44784
13;	6046.8;	23-SEP-2010	18:23:56;	Dark	;	43.0;	161;	Tau	Pup	;	2.93;	4500;	occ;	86;	0;	44785
14;	6184.6;	23-SEP-2010	18:26:14;	Dark	;	55.5;	108;	Alp	Col	;	2.65;	15200;	occ;	111;	0;	44785
15;	6865.4;	23-SEP-2010	18:37:35;	Dark	;	51.0;	157;	The1Eri		;	2.91;	9300;	occ;	102;	0;	44785
16;	7144.0;	23-SEP-2010	18:42:14;	Dark	;	16.0;	84;	Alp	Phe	;	2.40;	4500;	occ;	32;	0;	44785

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1;	1108.0;	23-SEP-2010	18:42:14;	Dark	;	45.5;	84;	Alp	Phe	;	2.40;	4500;	occ;	91;	0;	44785
2;	1542.9;	23-SEP-2010	18:49:28;	Dark	;	53.5;	52;	16Bet	Cet	;	2.04;	4500;	occ;	107;	0;	44785
3;	2167.5;	23-SEP-2010	18:59:53;	Bright;	;	37.5;	90;	54Alp	Peg	;	2.49;	11000;	occ;	75;	0;	44785
4;	2391.7;	23-SEP-2010	19:03:37;	Bright;	;	38.0;	93;	53Bet	Peg	;	2.52;	3100;	occ;	76;	0;	44785
5;	2474.9;	23-SEP-2010	19:05:00;	Bright;	;	42.0;	58;	21Alp	And	;	2.07;	11000;	occ;	84;	0;	44785
6;	2984.0;	23-SEP-2010	19:13:30;	Bright;	;	41.5;	74;	11Bet	Cas	;	2.27;	6600;	occ;	83;	0;	44785
7;	3078.3;	23-SEP-2010	19:15:04;	Bright;	;	42.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	84;	0;	44785
8;	4496.8;	23-SEP-2010	19:38:42;	Bright;	;	48.5;	24;	66Alp	Gem	;	1.58;	10200;	occ;	97;	0;	44785
9;	5070.8;	23-SEP-2010	19:48:16;	Dark	;	71.0;	8;	10Alp	CMI	;	0.40;	6500;	occ;	142;	0;	44785
10;	5509.3;	23-SEP-2010	19:55:35;	Dark	;	41.5;	132;	15Rho	Pup	;	2.80;	6900;	occ;	83;	0;	44785
11;	5683.9;	23-SEP-2010	19:58:29;	Dark	;	61.0;	1;	9Alp	CMA	;	-1.44;	11000;	occ;	122;	0;	44785
12;	5784.9;	23-SEP-2010	20:00:10;	Dark	;	49.0;	23;	21Eps	CMA	;	1.50;	26000;	occ;	98;	0;	44785
13;	5920.3;	23-SEP-2010	20:02:26;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	44785
14;	6047.4;	23-SEP-2010	20:04:33;	Dark	;	51.0;	161;	Tau	Pup	;	2.93;	4500;	occ;	102;	0;	44786
15;	6185.8;	23-SEP-2010	20:06:51;	Dark	;	55.5;	108;	Alp	Col	;	2.65;	15200;	occ;	111;	0;	44786
16;	6866.3;	23-SEP-2010	20:18:12;	Dark	;	51.0;	157;	The1Eri		;	2.91;	9300;	occ;	102;	0;	44786

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1;	1544.8;	24-SEP-2010	19:58:29;	Dark	;	53.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	106;	0;	44800
2;	2166.8;	24-SEP-2010	20:08:51;	Bright;	;	37.5;	90;	54Alp	Peg	;	2.49;	11000;	occ;	75;	0;	44800
3;	2390.0;	24-SEP-2010	20:12:34;	Bright;	;	39.0;	93;	53Bet	Peg	;	2.52;	3100;	occ;	78;	0;	44800
4;	2978.5;	24-SEP-2010	20:22:23;	Bright;	;	41.0;	74;	11Bet	Cas	;	2.27;	6600;	occ;	82;	0;	44800
5;	3071.1;	24-SEP-2010	20:23:55;	Bright;	;	42.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	84;	0;	44800
6;	4498.7;	24-SEP-2010	20:47:43;	Bright;	;	51.0;	24;	66Alp	Gem	;	1.58;	10200;	occ;	102;	0;	44800

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1;	-953.9;	24-SEP-2010	20:57:26;	Dark	;	73.0;	8;	10Alp	CMI	;	0.40;	6500;	occ;	146;	0;	44800
2;	-516.9;	24-SEP-2010	21:04:43;	Dark	;	45.0;	132;	15Rho	Pup	;	2.80;	6900;	occ;	90;	0;	44800
3;	-321.7;	24-SEP-2010	21:07:59;	Dark	;	43.0;	88;	31Eta	CMA	;	2.45;	20000;	occ;	86;	0;	44800
4;	-235.2;	24-SEP-2010	21:09:25;	Dark	;	50.0;	23;	21Eps	CMA	;	1.50;	26000;	occ;	100;	0;	44800
5;	-105.9;	24-SEP-2010	21:11:34;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	44800
6;	171.0;	24-SEP-2010	21:16:11;	Dark	;	56.5;	108;	Alp	Col	;	2.65;	15200;	occ;	113;	0;	44801
7;	842.9;	24-SEP-2010	21:27:23;	Dark	;	53.0;	157;	The1Eri		;	2.91;	9300;	occ;	106;	0;	44801
8;	1544.9;	24-SEP-2010	21:39:05;	Dark	;	55.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	110;	0;	44801
9;	2166.6;	24-SEP-2010	21:49:27;	Bright;	;	37.5;	90;	54Alp	Peg	;	2.49;	11000;	occ;	75;	0;	44801

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13; 4498.8; 24-SEP-2010 22:28:19; Bright; 52.5; 24; 66Alp Gem ; 1.58; 10200;occ; 105; 0;44801
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 3; -105.2; 24-SEP-2010 22:52:11; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44801
 4; 172.6; 24-SEP-2010 22:56:49; Dark ; 53.0; 108; Alp Col ; 2.65; 15200;occ; 106; 0;44802
 5; 843.7; 24-SEP-2010 23:08:00; Dark ; 51.5; 157; The1Eri ; 2.91; 9300;occ; 103; 0;44802
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 8; 2389.7; 24-SEP-2010 23:33:46; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;44802
 9; 2977.7; 24-SEP-2010 23:43:34; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44802
10; 3070.2; 24-SEP-2010 23:45:06; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44802
11; 4498.9; 25-SEP-2010 00:08:55; Bright; 71.0; 24; 66Alp Gem ; 1.58; 10200;occ; 142; 0;44802
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 3; -522.2; 24-SEP-2010 07:39:51; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;44792
 4; -341.9; 24-SEP-2010 07:42:51; Dark ; 36.0; 1; 9Alp CMA ; -1.44; 11000;occ; 72; 0;44792
 5; -243.9; 24-SEP-2010 07:44:29; Dark ; 53.5; 23; 21Eps CMA ; 1.50; 26000;occ; 107; 0;44792
 6; -111.1; 24-SEP-2010 07:46:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44792
 7; 16.1; 24-SEP-2010 07:48:49; Dark ; 41.0; 161; Tau Pup ; 2.93; 4500;occ; 82; 0;44793
 8; 159.9; 24-SEP-2010 07:51:13; Dark ; 54.5; 108; Alp Col ; 2.65; 15200;occ; 109; 0;44793
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 3; 2471.0; 24-SEP-2010 08:29:44; Bright; 43.0; 58; 21Alp And ; 2.07; 11000;occ; 86; 0;44793
 4; 2981.1; 24-SEP-2010 08:38:14; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;44793
 5; 3074.6; 24-SEP-2010 08:39:47; Bright; 42.5; 76; 27Gam Cas ; 2.30; 30000;occ; 85; 0;44793
 6; 4497.9; 24-SEP-2010 09:03:31; Bright; 49.5; 24; 66Alp Gem ; 1.58; 10200;occ; 99; 0;44793
 7; 5076.7; 24-SEP-2010 09:13:10; Dark ; 58.5; 8; 10Alp CMi ; 0.40; 6500;occ; 117; 0;44793
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13; 6197.1; 24-SEP-2010 09:31:50; Dark ; 56.0; 108; Alp Col ; 2.65; 15200;occ; 112; 0;44794
14; 6873.2; 24-SEP-2010 09:43:06; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;44794
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 4; 2980.6; 24-SEP-2010 10:18:49; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44794
 5; 3074.0; 24-SEP-2010 10:20:23; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44794
 6; 4498.1; 24-SEP-2010 10:44:07; Bright; 50.5; 24; 66Alp Gem ; 1.58; 10200;occ; 101; 0;44794
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 8; 5515.2; 24-SEP-2010 11:01:04; Dark ; 41.5; 132; 15Rho Pup ; 2.80; 6900;occ; 83; 0;44794
 9; 5696.9; 24-SEP-2010 11:04:06; Dark ; 30.0; 1; 9Alp CMA ; -1.44; 11000;occ; 60; 0;44794
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13; 6198.6; 24-SEP-2010 11:12:27; Dark ; 55.0; 108; Alp Col ; 2.65; 15200;occ; 110; 0;44795
14; 6873.9; 24-SEP-2010 11:23:43; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;44795
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 3; 2470.0; 24-SEP-2010 11:50:55; Bright; 44.0; 58; 21Alp And ; 2.07; 11000;occ; 88; 0;44795
 4; 2980.2; 24-SEP-2010 11:59:25; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;44795
 5; 3073.6; 24-SEP-2010 12:00:58; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;44795
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13; 6199.9; 24-SEP-2010 12:53:05; Dark ; 56.5; 108; Alp Col ; 2.65; 15200;occ; 113; 0;44796
14; 6874.8; 24-SEP-2010 13:04:19; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;44796
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6; 5078.9; 24-SEP-2010 14:14:59; Dark ; 68.5; 8; 10Alp CMI ; 0.40; 6500;occ; 137; 0;44796
7; 5516.5; 24-SEP-2010 14:22:17; Dark ; 43.5; 132; 15Rho Pup ; 2.80; 6900;occ; 87; 0;44796
8; 5710.7; 24-SEP-2010 14:25:31; Dark ; 46.0; 88; 31Eta CMA ; 2.45; 20000;occ; 92; 0;44796
9; 5796.5; 24-SEP-2010 14:26:57; Dark ; 49.5; 23; 21Eps CMA ; 1.50; 26000;occ; 99; 0;44796
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11; 6054.7; 24-SEP-2010 14:31:15; Dark ; 40.5; 161; Tau Pup ; 2.93; 4500;occ; 81; 0;44797
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8; 5711.6; 24-SEP-2010 16:06:08; Dark ; 44.5; 88; 31Eta CMA ; 2.45; 20000;occ; 89; 0;44797
9; 5797.6; 24-SEP-2010 16:07:34; Dark ; 60.0; 23; 21Eps CMA ; 1.50; 26000;occ; 120; 0;44797
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3; 2390.4; 24-SEP-2010 16:51:23; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;44798
4; 2979.2; 24-SEP-2010 17:01:12; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;44798
5; 3072.2; 24-SEP-2010 17:02:45; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44798
6; 4498.5; 24-SEP-2010 17:26:31; Bright; 47.0; 24; 66Alp Gem ; 1.58; 10200;occ; 94; 0;44798
7; 5080.4; 24-SEP-2010 17:36:13; Dark ; 64.5; 8; 10Alp CMI ; 0.40; 6500;occ; 129; 0;44798
8; 5517.9; 24-SEP-2010 17:43:30; Dark ; 47.0; 132; 15Rho Pup ; 2.80; 6900;occ; 94; 0;44798
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7; 5081.2; 24-SEP-2010 19:16:50; Dark ; 66.5; 8; 10Alp CMI ; 0.40; 6500;occ; 133; 0;44799
8; 5518.4; 24-SEP-2010 19:24:07; Dark ; 44.5; 132; 15Rho Pup ; 2.80; 6900;occ; 89; 0;44799
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10; 5799.6; 24-SEP-2010 19:28:48; Dark ; 52.5; 23; 21Eps CMA ; 1.50; 26000;occ; 105; 0;44799
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 6; 193.0; 25-SEP-2010 22:25:32; Dark ; 56.5; 108; Alp Col ; 2.65; 15200;occ; 113; 0;44816
 7; 855.5; 25-SEP-2010 22:36:35; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;44816
 8; 1547.0; 25-SEP-2010 22:48:06; Dark ; 52.0; 52; 16Bet Cet ; 2.04; 4500;occ; 104; 0;44816
 9; 2205.5; 25-SEP-2010 22:59:05; Bright; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;44816

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12; 5967.2; 28-SEP-2010 15:44:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44854

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2; 2186.8; 30-SEP-2010 20:20:40; Bright; 41.5; 140; 88Gam Peg ; 2.83; 26000;occ; 83; 0;44886
3; 2436.6; 30-SEP-2010 20:24:50; Bright; 39.0; 58; 21Alp And ; 2.07; 11000;occ; 78; 0;44886
4; 2664.5; 30-SEP-2010 20:28:38; Bright; 47.5; 53; 43Bet And ; 2.05; 3300;occ; 95; 0;44886
5; 2952.7; 30-SEP-2010 20:33:26; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44886
6; 3033.8; 30-SEP-2010 20:34:47; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;44886
7; 4511.6; 30-SEP-2010 20:59:25; Bright; 46.0; 24; 66Alp Gem ; 1.58; 10200;occ; 92; 0;44886
8; 4599.6; 30-SEP-2010 21:00:53; Bright; 63.5; 17; 78Bet Gem ; 1.16; 4500;occ; 127; 0;44886
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2; -454.1; 30-SEP-2010 21:17:15; Dark ; 46.0; 132; 15Rho Pup ; 2.80; 6900;occ; 92; 0;44886
3; -207.1; 30-SEP-2010 21:21:22; Dark ; 60.0; 37; 25Del CMA ; 1.83; 5900;occ; 120; 0;44886
4; -45.6; 30-SEP-2010 21:24:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44886
5; 166.7; 30-SEP-2010 21:27:36; Dark ; 54.5; 2; Alp Car ;-0.74; 7000;occ; 109; 0;44887
6; 297.6; 30-SEP-2010 21:29:47; Dark ; 58.0; 108; Alp Col ; 2.65; 15200;occ; 116; 0;44887
7; 911.4; 30-SEP-2010 21:40:01; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;44887
8; 1556.4; 30-SEP-2010 21:50:46; Dark ; 48.0; 52; 16Bet Cet ; 2.04; 4500;occ; 96; 0;44887
9; 2186.4; 30-SEP-2010 22:01:16; Bright; 39.5; 140; 88Gam Peg ; 2.83; 26000;occ; 79; 0;44887
10; 2436.3; 30-SEP-2010 22:05:26; Bright; 44.5; 58; 21Alp And ; 2.07; 11000;occ; 89; 0;44887
11; 2663.7; 30-SEP-2010 22:09:13; Bright; 45.5; 53; 43Bet And ; 2.05; 3300;occ; 91; 0;44887
12; 2952.6; 30-SEP-2010 22:14:02; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44887
13; 3033.6; 30-SEP-2010 22:15:23; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44887
14; 4511.8; 30-SEP-2010 22:40:01; Bright; 46.0; 24; 66Alp Gem ; 1.58; 10200;occ; 92; 0;44887
15; 4599.8; 30-SEP-2010 22:41:29; Bright; 59.0; 17; 78Bet Gem ; 1.16; 4500;occ; 118; 0;44887
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3; -44.9; 30-SEP-2010 23:04:40; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44887
4; 167.6; 30-SEP-2010 23:08:13; Dark ; 55.5; 2; Alp Car ;-0.74; 7000;occ; 111; 0;44888
5; 299.1; 30-SEP-2010 23:10:24; Dark ; 58.0; 108; Alp Col ; 2.65; 15200;occ; 116; 0;44888
6; 912.0; 30-SEP-2010 23:20:37; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;44888
7; 1556.5; 30-SEP-2010 23:31:22; Dark ; 56.0; 52; 16Bet Cet ; 2.04; 4500;occ; 112; 0;44888
8; 2185.9; 30-SEP-2010 23:41:51; Bright; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;44888
9; 2436.0; 30-SEP-2010 23:46:01; Bright; 40.0; 58; 21Alp And ; 2.07; 11000;occ; 80; 0;44888
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11; 2952.1; 30-SEP-2010 23:54:37; Bright; 36.0; 74; 11Bet Cas ; 2.27; 6600;occ; 72; 0;44888
12; 3033.2; 30-SEP-2010 23:55:58; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;44888
13; 4511.8; 01-OCT-2010 00:20:37; Bright; 39.0; 24; 66Alp Gem ; 1.58; 10200;occ; 78; 0;44888
14; 4600.1; 01-OCT-2010 00:22:05; Bright; 77.0; 17; 78Bet Gem ; 1.16; 4500;occ; 154; 0;44888
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2; -460.4; 30-SEP-2010 07:52:21; Dark ; 46.0; 132; 15Rho Pup ; 2.80; 6900;occ; 92; 0;44878
3; -229.7; 30-SEP-2010 07:56:12; Dark ; 44.0; 70; Zet Pup ; 2.25; 39000;occ; 88; 0;44878
4; -131.7; 30-SEP-2010 07:57:50; Dark ; 48.0; 117; Pi Pup ; 2.71; 3800;occ; 96; 0;44878
5; -51.5; 30-SEP-2010 07:59:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44878
6; 55.1; 30-SEP-2010 08:00:57; Dark ; 54.5; 177; 1Zet CMA ; 3.02; 26000;occ; 109; 0;44879
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2; 287.2; 30-SEP-2010 09:45:25; Dark ; 59.0; 108; Alp Col ; 2.65; 15200;occ; 118; 0;44880
3; 906.2; 30-SEP-2010 09:55:44; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;44880
4; 1556.0; 30-SEP-2010 10:06:34; Dark ; 49.5; 52; 16Bet Cet ; 2.04; 4500;occ; 99; 0;44880
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2; 2438.3; 30-SEP-2010 12:01:52; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44881

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5; 3036.1; 30-SEP-2010 12:11:50; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44881
6; 4510.9; 30-SEP-2010 12:36:24; Bright; 57.5; 24; 66Alp Gem ; 1.58; 10200;occ; 115; 0;44881
7; 4598.3; 30-SEP-2010 12:37:52; Bright; 59.0; 17; 78Bet Gem ; 1.16; 4500;occ; 118; 0;44881
8; 5152.8; 30-SEP-2010 12:47:06; Dark ; 68.5; 8; 10Alp CMi ; 0.40; 6500;occ; 137; 0;44881
9; 5577.9; 30-SEP-2010 12:54:12; Dark ; 46.5; 132; 15Rho Pup ; 2.80; 6900;occ; 93; 0;44881
10; 5808.4; 30-SEP-2010 12:58:02; Dark ; 42.5; 70; Zet Pup ; 2.25; 39000;occ; 85; 0;44881
11; 5906.8; 30-SEP-2010 12:59:40; Dark ; 49.5; 117; Pi Pup ; 2.71; 3800;occ; 99; 0;44881
12; 5986.6; 30-SEP-2010 13:01:00; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44881
13; 6198.9; 30-SEP-2010 13:04:33; Dark ; 46.0; 2; Alp Car ; -0.74; 7000;occ; 92; 0;44882
14; 6325.9; 30-SEP-2010 13:06:40; Dark ; 58.0; 108; Alp Col ; 2.65; 15200;occ; 116; 0;44882
15; 6943.5; 30-SEP-2010 13:16:57; Dark ; 48.5; 157; The1Eri ; 2.91; 9300;occ; 97; 0;44882
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2; 2187.4; 30-SEP-2010 13:38:17; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;44882
3; 2437.9; 30-SEP-2010 13:42:27; Bright; 39.0; 58; 21Alp And ; 2.07; 11000;occ; 78; 0;44882
4; 2667.4; 30-SEP-2010 13:46:17; Bright; 50.0; 53; 43Bet And ; 2.05; 3300;occ; 100; 0;44882
5; 2953.9; 30-SEP-2010 13:51:03; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44882
6; 3035.6; 30-SEP-2010 13:52:25; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;44882
7; 4511.0; 30-SEP-2010 14:17:00; Bright; 55.5; 24; 66Alp Gem ; 1.58; 10200;occ; 111; 0;44882
8; 4598.6; 30-SEP-2010 14:18:28; Bright; 69.5; 17; 78Bet Gem ; 1.16; 4500;occ; 139; 0;44882
9; 5153.8; 30-SEP-2010 14:27:43; Dark ; 62.0; 8; 10Alp CMi ; 0.40; 6500;occ; 124; 0;44882
10; 5578.9; 30-SEP-2010 14:34:48; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;44882
11; 5823.8; 30-SEP-2010 14:38:53; Dark ; 67.0; 37; 25Del CMA ; 1.83; 5900;occ; 134; 0;44882
12; 5987.4; 30-SEP-2010 14:41:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44882
13; 6199.8; 30-SEP-2010 14:45:09; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;44883
14; 6327.7; 30-SEP-2010 14:47:17; Dark ; 59.5; 108; Alp Col ; 2.65; 15200;occ; 119; 0;44883
15; 6944.6; 30-SEP-2010 14:57:34; Dark ; 47.5; 157; The1Eri ; 2.91; 9300;occ; 95; 0;44883
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3; 2437.8; 30-SEP-2010 15:23:03; Bright; 40.0; 58; 21Alp And ; 2.07; 11000;occ; 80; 0;44883
4; 2666.8; 30-SEP-2010 15:26:52; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;44883
5; 2953.6; 30-SEP-2010 15:31:39; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44883
6; 3035.4; 30-SEP-2010 15:33:01; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44883
7; 4511.2; 30-SEP-2010 15:57:37; Bright; 58.0; 24; 66Alp Gem ; 1.58; 10200;occ; 116; 0;44883
8; 4598.8; 30-SEP-2010 15:59:04; Bright; 65.5; 17; 78Bet Gem ; 1.16; 4500;occ; 131; 0;44883
9; 5154.9; 30-SEP-2010 16:08:20; Dark ; 62.0; 8; 10Alp CMi ; 0.40; 6500;occ; 124; 0;44883
10; 5579.8; 30-SEP-2010 16:15:25; Dark ; 46.0; 132; 15Rho Pup ; 2.80; 6900;occ; 92; 0;44883
11; 5825.2; 30-SEP-2010 16:19:31; Dark ; 66.0; 37; 25Del CMA ; 1.83; 5900;occ; 132; 0;44883
12; 5988.2; 30-SEP-2010 16:22:14; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44883
13; 6200.8; 30-SEP-2010 16:25:46; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;44884
14; 6329.2; 30-SEP-2010 16:27:55; Dark ; 60.0; 108; Alp Col ; 2.65; 15200;occ; 120; 0;44884
15; 6945.1; 30-SEP-2010 16:38:10; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;44884
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3; 2437.4; 30-SEP-2010 17:03:39; Bright; 41.5; 58; 21Alp And ; 2.07; 11000;occ; 83; 0;44884
4; 2666.0; 30-SEP-2010 17:07:27; Bright; 51.5; 53; 43Bet And ; 2.05; 3300;occ; 103; 0;44884
5; 2953.3; 30-SEP-2010 17:12:15; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44884
6; 3034.9; 30-SEP-2010 17:13:36; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;44884
7; 4511.5; 30-SEP-2010 17:38:13; Bright; 53.0; 24; 66Alp Gem ; 1.58; 10200;occ; 106; 0;44884
8; 4599.2; 30-SEP-2010 17:39:41; Bright; 57.5; 17; 78Bet Gem ; 1.16; 4500;occ; 115; 0;44884
9; 5156.1; 30-SEP-2010 17:48:57; Dark ; 54.0; 8; 10Alp CMi ; 0.40; 6500;occ; 108; 0;44884
10; 5580.5; 30-SEP-2010 17:56:02; Dark ; 45.0; 132; 15Rho Pup ; 2.80; 6900;occ; 90; 0;44884
11; 5826.5; 30-SEP-2010 18:00:08; Dark ; 52.5; 37; 25Del CMA ; 1.83; 5900;occ; 105; 0;44884
12; 5988.9; 30-SEP-2010 18:02:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44884
13; 6201.4; 30-SEP-2010 18:06:23; Dark ; 46.0; 2; Alp Car ; -0.74; 7000;occ; 92; 0;44885
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4; 2665.2; 30-SEP-2010 18:48:03; Bright; 47.5; 53; 43Bet And ; 2.05; 3300;occ; 95; 0;44885
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8;	4599.5;	30-SEP-2010	19:20:17;	Bright;	62.5;	17;	78Bet Gem	;	1.16;	4500;occ;	125;	0;44885	
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11;	5827.5;	30-SEP-2010	19:40:45;	Dark	;	62.5;	37;	25Del CMa	;	1.83;	5900;occ;	125;	0;44885
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