

GOMOS Daily Report 24-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	30SEP2010 04:48:28
Data source version	GOMOS/5.01
Start time of products	24SEP2010 00:01:41
Stop time of products	24SEP2010 23:45:06
Store outputs in DB	Yes
Nb of level 1b prods	89
Nb of prods with errors	0

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

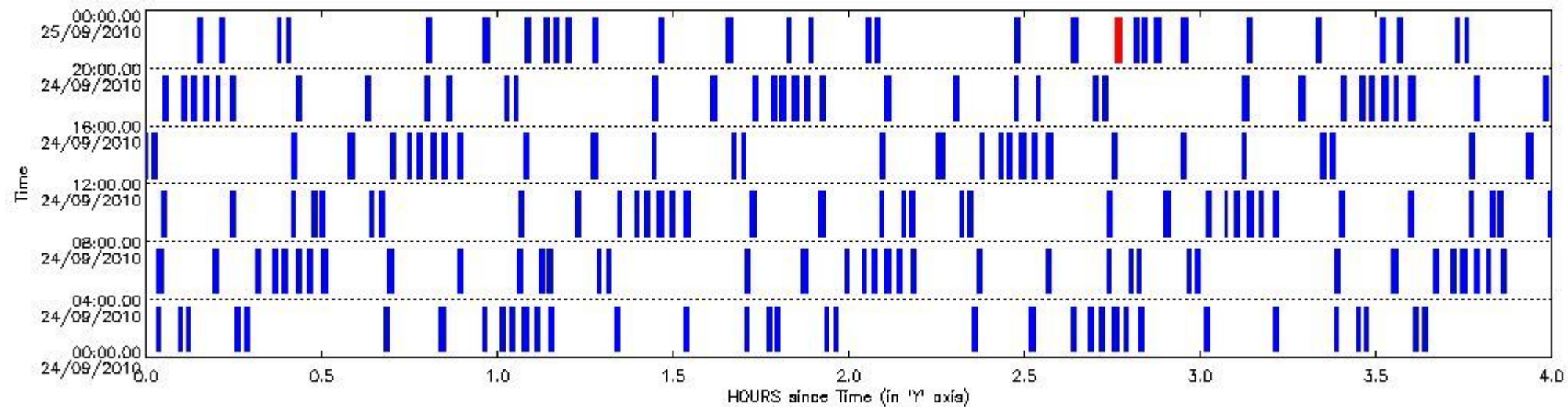
2.1 Level 0 products arrived in PCF (see template [here](#))

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
24-SEP-2010 22:45:30	15RhoPup	132	44801

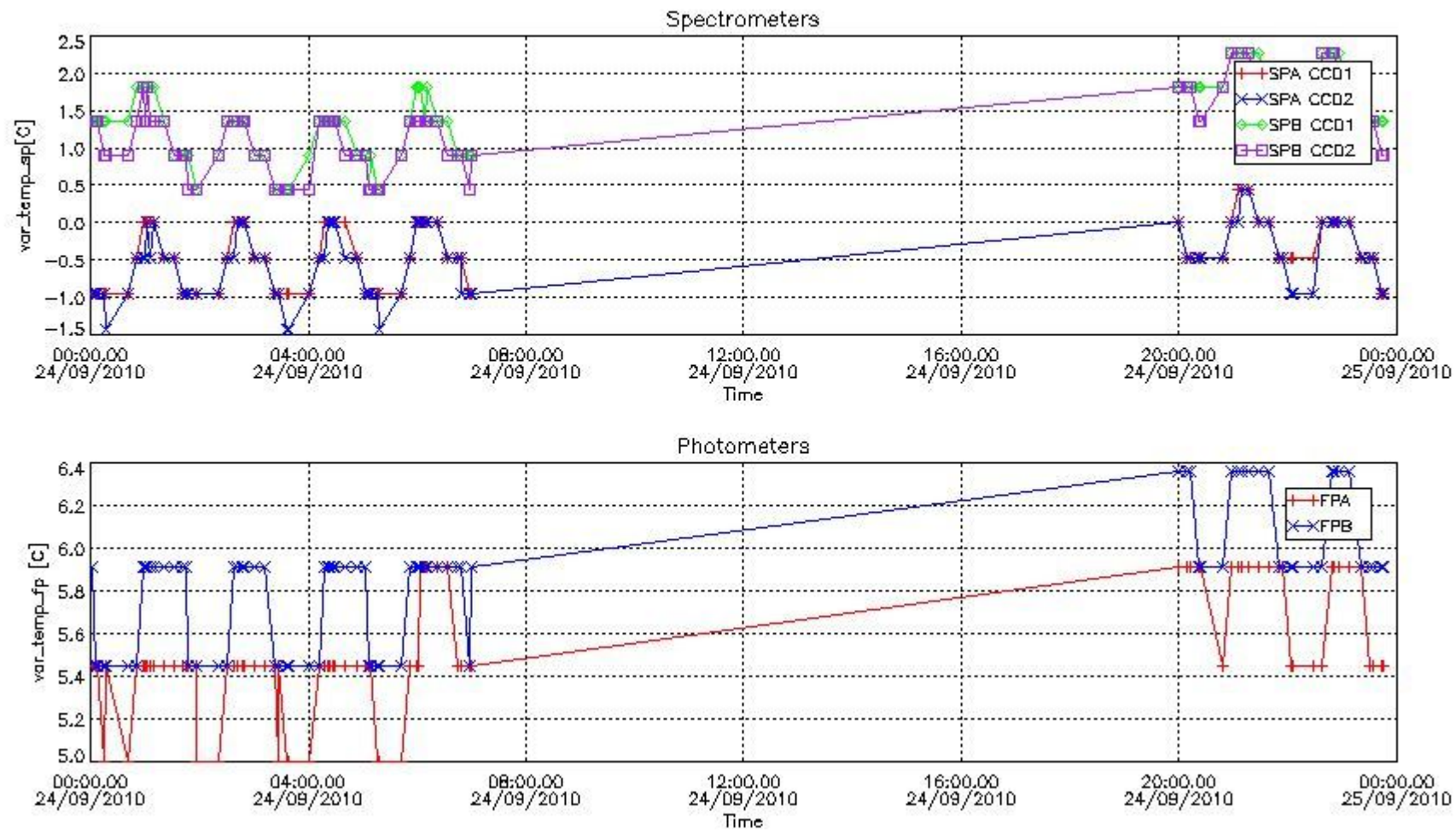
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100924_000141_000000382093_00145_44788_6068.N1	24-SEP-2010 00:01:41	Bright	37.500	90	54Alp Peg	2.4870	11000.	75	44788	No
2	GOM_TRA_1PNPDE20100924_000525_000000382093_00145_44788_6069.N1	24-SEP-2010 00:05:25	Bright	38.000	93	53Bet Peg	2.5200	3100.0	76	44788	No
3	GOM_TRA_1PNPDE20100924_000646_000000432093_00145_44788_6070.N1	24-SEP-2010 00:06:46	Bright	43.000	58	21Alp And	2.0730	11000.	86	44788	No
4	GOM_TRA_1PNPDE20100924_001516_000000362093_00145_44788_6071.N1	24-SEP-2010 00:15:16	Bright	36.000	74	11Bet Cas	2.2680	6600.0	72	44788	No
5	GOM_TRA_1PNPDE20100924_001650_000000422093_00145_44788_6072.N1	24-SEP-2010 00:16:50	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	44788	No
6	GOM_TRA_1PNPDE20100924_004030_000000512093_00145_44788_6073.N1	24-SEP-2010 00:40:30	Bright	50.500	24	66Alp Gem	1.5800	10200.	101	44788	No
7	GOM_TRA_1PNPDE20100924_005006_000000622093_00145_44788_6074.N1	24-SEP-2010 00:50:06	Dark	61.500	8	10Alp CMi	0.40000	6500.0	123	44788	No
8	GOM_TRA_1PNPDE20100924_005724_000000442093_00145_44788_5893.N1	24-SEP-2010 00:57:24	Dark	43.500	132	15Rho Pup	2.8030	6900.0	87	44788	No
9	GOM_TRA_1PNPDE20100924_010021_000000492093_00145_44788_5894.N1	24-SEP-2010 01:00:21	Dark	49.000	1	9Alp CMa	-1.4400	11000.	98	44788	No
10	GOM_TRA_1PNPDE20100924_010201_000000512093_00145_44788_5895.N1	24-SEP-2010 01:02:01	Dark	50.500	23	21Eps CMa	1.5020	26000.	101	44788	No

11	GOM_TRA_1PNPDE20100924_010622_000000462093_00146_44789_5896.N1	24-SEP-2010 01:06:22	Dark	45.500	161	Tau Pup	2.9310	4500.0	91	44789	No
12	GOM_TRA_1PNPDE20100924_010843_000000552093_00146_44789_5897.N1	24-SEP-2010 01:08:43	Dark	54.500	108	Alp Col	2.6520	15200.	109	44789	No
13	GOM_TRA_1PNPDE20100924_012002_000000532093_00146_44789_6086.N1	24-SEP-2010 01:20:02	Straylight	53.000	157	The1Eri	2.9060	9300.0	106	44789	No
14	GOM_TRA_1PNPDE20100924_013152_000000492093_00146_44789_5894.N1	24-SEP-2010 01:31:52	Twi_and_stray	49.000	52	16Bet Cet	2.0370	4500.0	98	44789	No
15	GOM_TRA_1PNPDE20100924_014216_000000372093_00146_44789_5895.N1	24-SEP-2010 01:42:16	Bright	37.000	90	54Alp Peg	2.4870	11000.	74	44789	No
16	GOM_TRA_1PNPDE20100924_014600_000000412093_00146_44789_5896.N1	24-SEP-2010 01:46:00	Bright	40.500	93	53Bet Peg	2.5200	3100.0	81	44789	No
17	GOM_TRA_1PNPDE20100924_014722_000000442093_00146_44789_5897.N1	24-SEP-2010 01:47:22	Bright	44.000	58	21Alp And	2.0730	11000.	88	44789	No
18	GOM_TRA_1PNPDE20100924_015551_000000402093_00146_44789_5898.N1	24-SEP-2010 01:55:51	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	44789	No
19	GOM_TRA_1PNPDE20100924_015725_000000412093_00146_44789_5899.N1	24-SEP-2010 01:57:25	Bright	40.500	76	27Gam Cas	2.3000	30000.	81	44789	No
20	GOM_TRA_1PNPDE20100924_022106_000000502093_00146_44789_5900.N1	24-SEP-2010 02:21:06	Bright	50.000	24	66Alp Gem	1.5800	10200.	100	44789	No
21	GOM_TRA_1PNPDE20100924_023043_000000612093_00146_44789_5901.N1	24-SEP-2010 02:30:43	Dark	60.500	8	10Alp CMi	0.40000	6500.0	121	44789	No
22	GOM_TRA_1PNPDE20100924_023801_000000462093_00146_44789_5902.N1	24-SEP-2010 02:38:01	Dark	45.500	132	15Rho Pup	2.8030	6900.0	91	44789	No
23	GOM_TRA_1PNPDE20100924_024059_000000492093_00146_44789_5903.N1	24-SEP-2010 02:40:59	Dark	49.000	1	9Alp CMa	-1.4400	11000.	98	44789	No
24	GOM_TRA_1PNPDE20100924_024238_000000492093_00146_44789_5904.N1	24-SEP-2010 02:42:38	Dark	48.500	23	21Eps CMa	1.5020	26000.	97	44789	No
25	GOM_TRA_1PNPDE20100924_024659_000000442093_00147_44790_5905.N1	24-SEP-2010 02:46:59	Dark	44.000	161	Tau Pup	2.9310	4500.0	88	44790	No
26	GOM_TRA_1PNPDE20100924_024921_000000562093_00147_44790_5906.N1	24-SEP-2010 02:49:21	Dark	56.000	108	Alp Col	2.6520	15200.	112	44790	No
27	GOM_TRA_1PNPDE20100924_030039_000000532093_00147_44790_5907.N1	24-SEP-2010 03:00:39	Straylight	53.000	157	The1Eri	2.9060	9300.0	106	44790	No
28	GOM_TRA_1PNPDE20100924_031228_000000532093_00147_44790_5908.N1	24-SEP-2010 03:12:28	Twi_and_stray	53.000	52	16Bet Cet	2.0370	4500.0	106	44790	No
29	GOM_TRA_1PNPDE20100924_032252_000000372093_00147_44790_5909.N1	24-SEP-2010 03:22:52	Bright	37.000	90	54Alp Peg	2.4870	11000.	74	44790	No
30	GOM_TRA_1PNPDE20100924_032636_000000372093_00147_44790_5910.N1	24-SEP-2010 03:26:36	Bright	37.000	93	53Bet Peg	2.5200	3100.0	74	44790	No
31	GOM_TRA_1PNPDE20100924_032757_000000432093_00147_44790_5911.N1	24-SEP-2010 03:27:57	Bright	43.000	58	21Alp And	2.0730	11000.	86	44790	No
32	GOM_TRA_1PNPDE20100924_033627_000000402093_00147_44790_6050.N1	24-SEP-2010 03:36:27	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	44790	No
33	GOM_TRA_1PNPDE20100924_033801_000000422093_00147_44790_6051.N1	24-SEP-2010 03:38:01	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	44790	No
34	GOM_TRA_1PNPDE20100924_040142_000000652093_00147_44790_6052.N1	24-SEP-2010 04:01:42	Bright	64.500	24	66Alp Gem	1.5800	10200.	129	44790	No
35	GOM_TRA_1PNPDE20100924_041119_000000592093_00147_44790_6053.N1	24-SEP-2010 04:11:19	Dark	58.500	8	10Alp CMi	0.40000	6500.0	117	44790	No
36	GOM_TRA_1PNPDE20100924_041838_000000442093_00147_44790_6054.N1	24-SEP-2010 04:18:38	Dark	43.500	132	15Rho Pup	2.8030	6900.0	87	44790	No
37	GOM_TRA_1PNPDE20100924_042136_000000432093_00147_44790_6055.N1	24-SEP-2010 04:21:36	Dark	43.000	1	9Alp CMa	-1.4400	11000.	86	44790	No
38	GOM_TRA_1PNPDE20100924_042315_000000512093_00147_44790_6056.N1	24-SEP-2010 04:23:15	Dark	50.500	23	21Eps CMa	1.5020	26000.	101	44790	No
39	GOM_TRA_1PNPDE20100924_042735_000000412093_00148_44791_6057.N1	24-SEP-2010 04:27:35	Dark	40.500	161	Tau Pup	2.9310	4500.0	81	44791	No
40	GOM_TRA_1PNPDE20100924_042958_000000542093_00148_44791_6058.N1	24-SEP-2010 04:29:58	Dark	53.500	108	Alp Col	2.6520	15200.	107	44791	No
41	GOM_TRA_1PNPDE20100924_044116_000000522093_00148_44791_6059.N1	24-SEP-2010 04:41:16	Straylight	51.500	157	The1Eri	2.9060	9300.0	103	44791	No
42	GOM_TRA_1PNPDE20100924_045305_000000552093_00148_44791_6060.N1	24-SEP-2010 04:53:05	Twi_and_stray	55.000	52	16Bet Cet	2.0370	4500.0	110	44791	No
43	GOM_TRA_1PNPDE20100924_050328_000000382093_00148_44791_6061.N1	24-SEP-2010 05:03:28	Bright	37.500	90	54Alp Peg	2.4870	11000.	75	44791	No
44	GOM_TRA_1PNPDE20100924_050712_000000372093_00148_44791_6062.N1	24-SEP-2010 05:07:12	Bright	37.000	93	53Bet Peg	2.5200	3100.0	74	44791	No
45	GOM_TRA_1PNPDE20100924_050833_000000432093_00148_44791_6063.N1	24-SEP-2010 05:08:33	Bright	43.000	58	21Alp And	2.0730	11000.	86	44791	No
46	GOM_TRA_1PNPDE20100924_051703_000000392093_00148_44791_6064.N1	24-SEP-2010 05:17:03	Bright	39.000	74	11Bet Cas	2.2680	6600.0	78	44791	No
47	GOM_TRA_1PNPDE20100924_051837_000000412093_00148_44791_6065.N1	24-SEP-2010 05:18:37	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	44791	No
48	GOM_TRA_1PNPDE20100924_054219_000000492093_00148_44791_6005.N1	24-SEP-2010 05:42:19	Bright	49.000	24	66Alp Gem	1.5800	10200.	98	44791	No
49	GOM_TRA_1PNPDE20100924_055156_000000652093_00148_44791_6006.N1	24-SEP-2010 05:51:56	Dark	64.500	8	10Alp CMi	0.40000	6500.0	129	44791	No
50	GOM_TRA_1PNPDE20100924_055914_000000432093_00148_44791_6007.N1	24-SEP-2010 05:59:14	Dark	42.500	132	15Rho Pup	2.8030	6900.0	85	44791	No
51	GOM_TRA_1PNPDE20100924_060214_000000432093_00148_44791_6008.N1	24-SEP-2010 06:02:14	Dark	43.000	1	9Alp CMa	-1.4400	11000.	86	44791	No
52	GOM_TRA_1PNPDE20100924_060352_000000532093_00148_44791_6009.N1	24-SEP-2010 06:03:52	Dark	52.500	23	21Eps CMa	1.5020	26000.	105	44791	No
53	GOM_TRA_1PNPDE20100924_060813_000000412093_00149_44792_6010.N1	24-SEP-2010 06:08:13	Dark	40.500	161	Tau Pup	2.9310	4500.0	81	44792	No
54	GOM_TRA_1PNPDE20100924_061035_000000552093_00149_44792_6011.N1	24-SEP-2010 06:10:35	Dark	55.000	108	Alp Col	2.6520	15200.	110	44792	No
55	GOM_TRA_1PNPDE20100924_062152_000000512093_00149_44792_6012.N1	24-SEP-2010 06:21:52	Straylight	51.000	157	The1Eri	2.9060	9300.0	102	44792	No
56	GOM_TRA_1PNPDE20100924_063341_000000552093_00149_44792_6013.N1	24-SEP-2010 06:33:41	Twi_and_stray	55.000	52	16Bet Cet	2.0370	4500.0	110	44792	No
57	GOM_TRA_1PNPDE20100924_064404_000000382093_00149_44792_6014.N1	24-SEP-2010 06:44:04	Bright	37.500	90	54Alp Peg	2.4870	11000.	75	44792	No
58	GOM_TRA_1PNPDE20100924_064748_000000372093_00149_44792_6015.N1	24-SEP-2010 06:47:48	Bright	37.000	93	53Bet Peg	2.5200	3100.0	74	44792	No
59	GOM_TRA_1PNPDE20100924_064909_000000442093_00149_44792_6016.N1	24-SEP-2010 06:49:09	Bright	43.500	58	21Alp And	2.0730	11000.	87	44792	No
60	GOM_TRA_1PNPDE20100924_065738_000000402093_00149_44792_6017.N1	24-SEP-2010 06:57:38	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	44792	No
61	GOM_TRA_1PNPDE20100924_065912_000000422093_00149_44792_6018.N1	24-SEP-2010 06:59:12	Bright	41.500	76	27Gam Cas	2.3000	30000.	83	44792	No
62	GOM_TRA_1PNPDE20100924_195829_000000532093_00157_44800_6073.N1	24-SEP-2010 19:58:29	Twi_and_stray	53.000	52	16Bet Cet	2.0370	4500.0	106	44800	No
63	GOM_TRA_1PNPDE20100924_200851_000000382093_00157_44800_6074.N1	24-SEP-2010 20:08:51	Bright	37.500	90	54Alp Peg	2.4870	11000.	75	44800	No
64	GOM_TRA_1PNPDE20100924_201234_000000392093_00157_44800_6075.N1	24-SEP-2010 20:12:34	Bright	39.000	93	53Bet Peg	2.5200	3100.0	78	44800	No
65	GOM_TRA_1PNPDE20100924_202223_000000412093_00157_44800_6076.N1	24-SEP-2010 20:22:23	Bright	41.000	74	11Bet Cas	2.2680	6600.0	82	44800	No
66	GOM_TRA_1PNPDE20100924_202355_000000422093_00157_44800_6077.N1	24-SEP-2010 20:23:55	Bright	42.000	76	27Gam Cas	2.3000	30000.	84	44800	No
67	GOM_TRA_1PNPDE20100924_204743_000000512093_00157_44800_6078.N1	24-SEP-2010 20:47:43	Bright	51.000	24	66Alp Gem	1.5800	10200.	102	44800	No
68	GOM_TRA_1PNPDE20100924_205726_000000732093_00157_44800_6099.N1	24-SEP-2010 20:57:26	Dark	73.000	8	10Alp CMi	0.40000	6500.0	146	44800	No
69	GOM_TRA_1PNPDE20100924_210443_000000452093_00157_44800_6100.N1	24-SEP-2010 21:04:43	Dark	45.000	132	15Rho Pup	2.8030	6900.0	90	44800	No

70	GOM_TRA_1PNPDE20100924_210759_000000432093_00157_44800_6101.N1	24-SEP-2010 21:07:59	Dark	43.000	88	31Eta CMa	2.4480	20000.	86	44800	No
71	GOM_TRA_1PNPDE20100924_210925_000000502093_00157_44800_6102.N1	24-SEP-2010 21:09:25	Dark	50.000	23	21Eps CMa	1.5020	26000.	100	44800	No
72	GOM_TRA_1PNPDE20100924_211611_000000572093_00158_44801_6103.N1	24-SEP-2010 21:16:11	Dark	56.500	108	Alp Col	2.6520	15200.	113	44801	No
73	GOM_TRA_1PNPDE20100924_212723_000000532093_00158_44801_6104.N1	24-SEP-2010 21:27:23	Straylight	53.000	157	The1Eri	2.9060	9300.0	106	44801	No
74	GOM_TRA_1PNPDE20100924_213905_000000552093_00158_44801_6105.N1	24-SEP-2010 21:39:05	Twilight_stray	55.000	52	16Bet Cet	2.0370	4500.0	110	44801	No
75	GOM_TRA_1PNPDE20100924_214927_000000382093_00158_44801_6106.N1	24-SEP-2010 21:49:27	Bright	37.500	90	54Alp Peg	2.4870	11000.	75	44801	No
76	GOM_TRA_1PNPDE20100924_215310_000000382093_00158_44801_6107.N1	24-SEP-2010 21:53:10	Bright	37.500	93	53Bet Peg	2.5200	3100.0	75	44801	No
77	GOM_TRA_1PNPDE20100924_220258_000000412093_00158_44801_6108.N1	24-SEP-2010 22:02:58	Bright	40.500	74	11Bet Cas	2.2680	6600.0	81	44801	No
78	GOM_TRA_1PNPDE20100924_220431_000000442093_00158_44801_6109.N1	24-SEP-2010 22:04:31	Bright	43.500	76	27Gam Cas	2.3000	30000.	87	44801	No
79	GOM_TRA_1PNPDE20100924_222819_000000532093_00158_44801_6110.N1	24-SEP-2010 22:28:19	Bright	52.500	24	66Alp Gem	1.5800	10200.	105	44801	No
80	GOM_TRA_1PNPDE20100924_223803_000000622093_00158_44801_6111.N1	24-SEP-2010 22:38:03	Dark	61.500	8	10Alp CMi	0.40000	6500.0	123	44801	No
81	GOM_TRA_1PNPDE20100924_224835_000000452093_00158_44801_6127.N1	24-SEP-2010 22:48:35	Dark	45.000	88	31Eta CMa	2.4480	20000.	90	44801	No
82	GOM_TRA_1PNPDE20100924_225002_000000492093_00158_44801_6128.N1	24-SEP-2010 22:50:02	Dark	49.000	23	21Eps CMa	1.5020	26000.	98	44801	No
83	GOM_TRA_1PNPDE20100924_225649_000000532093_00159_44802_6129.N1	24-SEP-2010 22:56:49	Dark	53.000	108	Alp Col	2.6520	15200.	106	44802	No
84	GOM_TRA_1PNPDE20100924_230800_000000522093_00159_44802_6130.N1	24-SEP-2010 23:08:00	Straylight	51.500	157	The1Eri	2.9060	9300.0	103	44802	No
85	GOM_TRA_1PNPDE20100924_231941_000000512093_00159_44802_6131.N1	24-SEP-2010 23:19:41	Twilight_stray	51.000	52	16Bet Cet	2.0370	4500.0	102	44802	No
86	GOM_TRA_1PNPDE20100924_233046_000000442093_00159_44802_6132.N1	24-SEP-2010 23:30:46	Bright	43.500	140	88Gam Peg	2.8340	26000.	87	44802	No
87	GOM_TRA_1PNPDE20100924_233346_000000382093_00159_44802_6133.N1	24-SEP-2010 23:33:46	Bright	37.500	93	53Bet Peg	2.5200	3100.0	75	44802	No
88	GOM_TRA_1PNPDE20100924_234334_000000402093_00159_44802_6134.N1	24-SEP-2010 23:43:34	Bright	40.000	74	11Bet Cas	2.2680	6600.0	80	44802	No
89	GOM_TRA_1PNPDE20100924_234506_000000412093_00159_44802_6135.N1	24-SEP-2010 23:45:06	Bright	41.000	76	27Gam Cas	2.3000	30000.	82	44802	No

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



4. Overview of dark signal processing per product

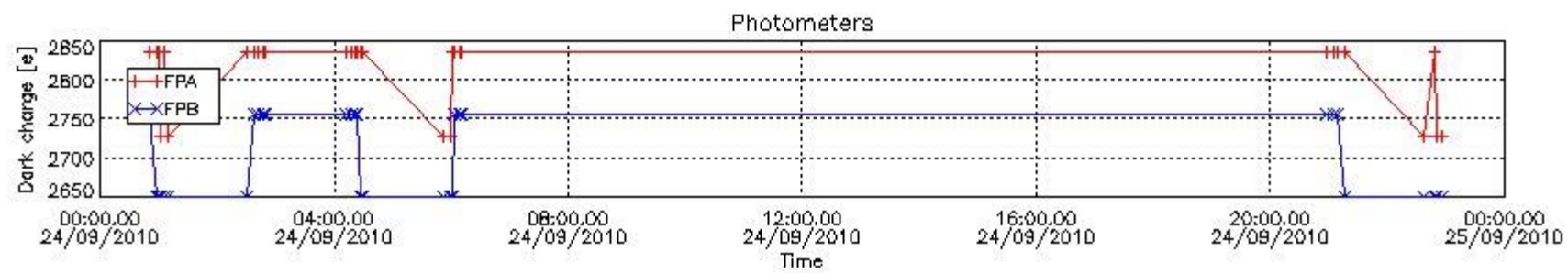
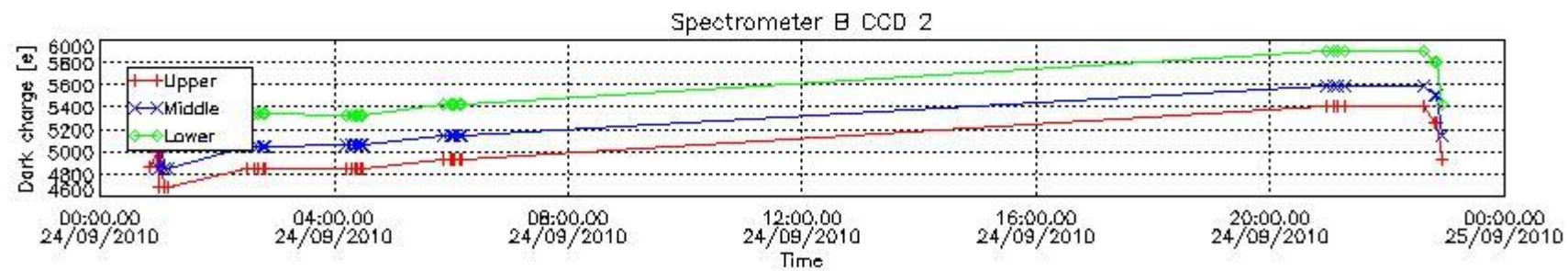
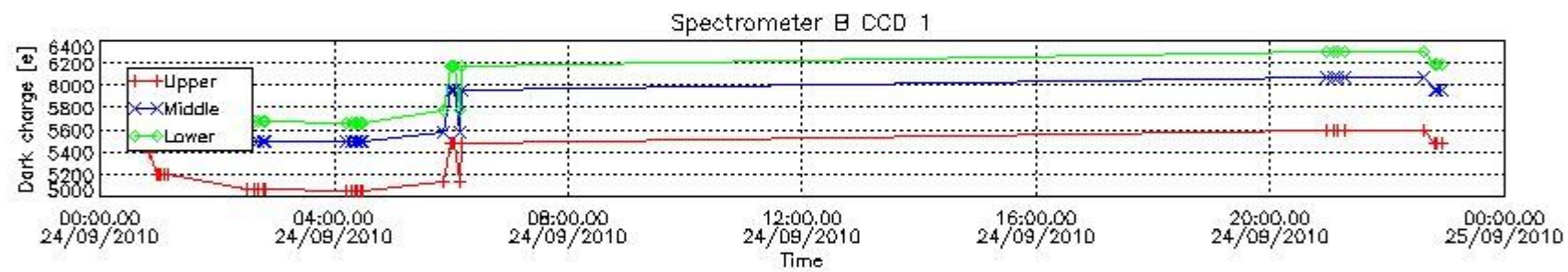
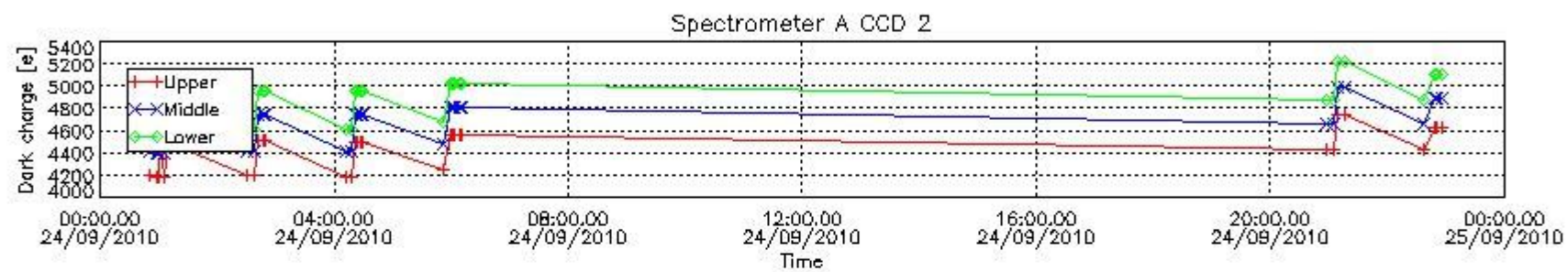
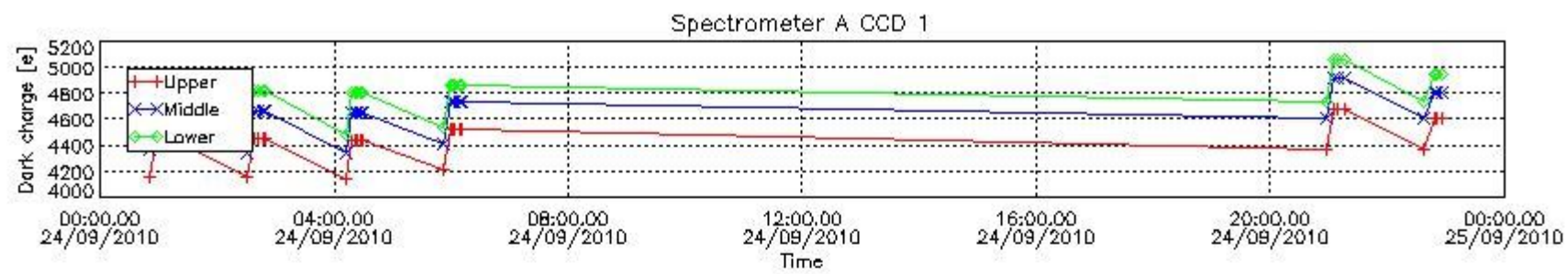
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20100924_195829_000000532093_00157_44800_6073.N1	DC map used
GOM_TRA_1PNPDE20100924_200851_000000382093_00157_44800_6074.N1	DC map used
GOM_TRA_1PNPDE20100924_201234_000000392093_00157_44800_6075.N1	DC map used
GOM_TRA_1PNPDE20100924_202223_000000412093_00157_44800_6076.N1	DC map used
GOM_TRA_1PNPDE20100924_202355_000000422093_00157_44800_6077.N1	DC map used
GOM_TRA_1PNPDE20100924_204743_000000512093_00157_44800_6078.N1	DC map used

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



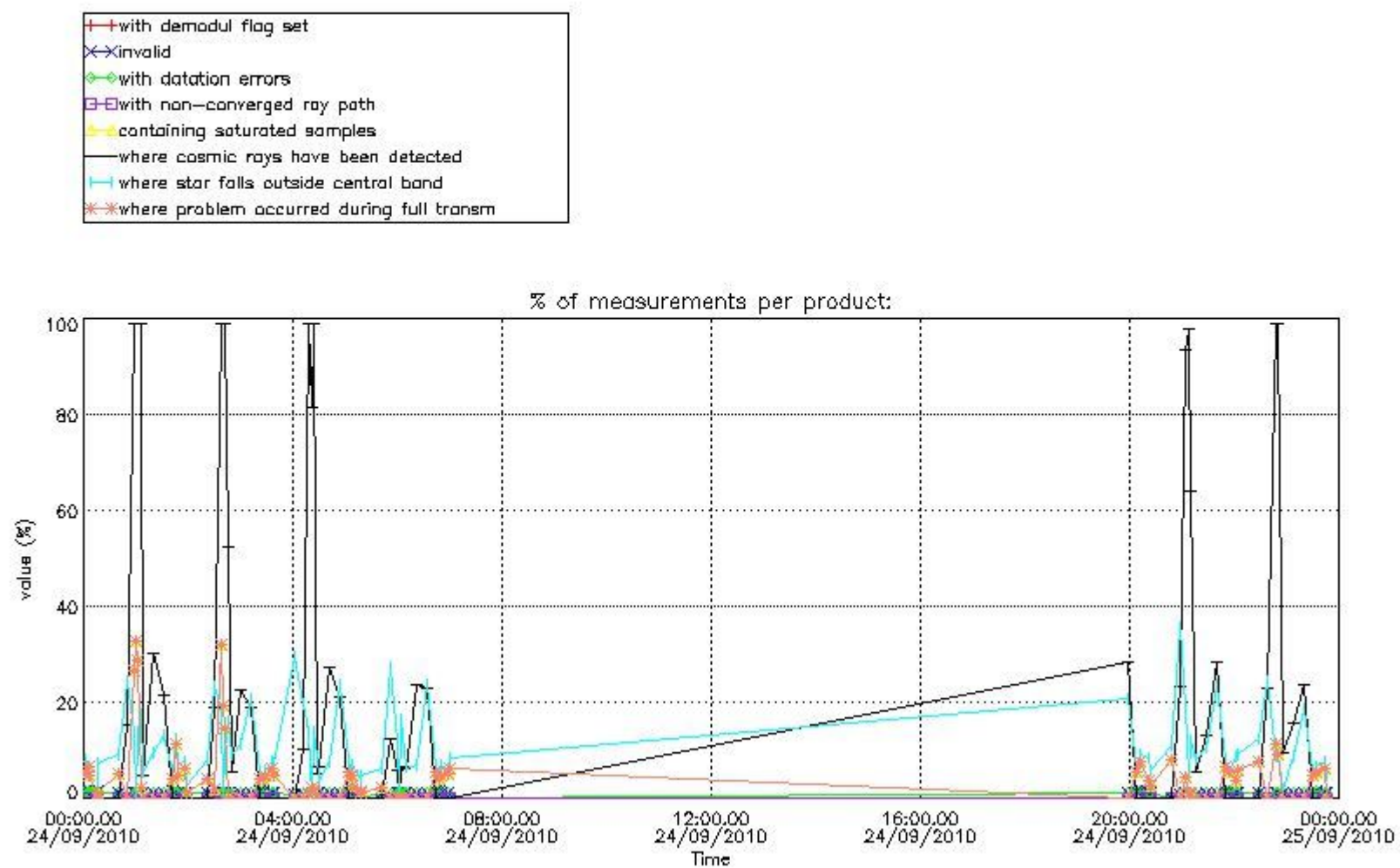
5. Demodulation flag and quality information monitoring

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.

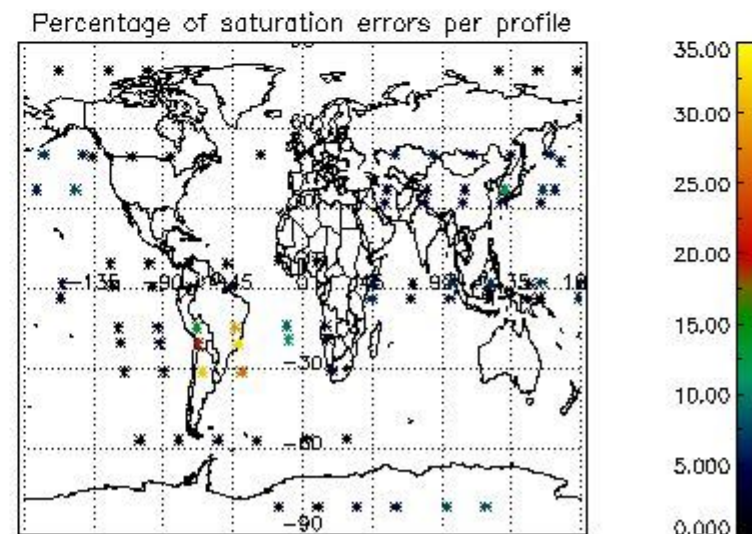
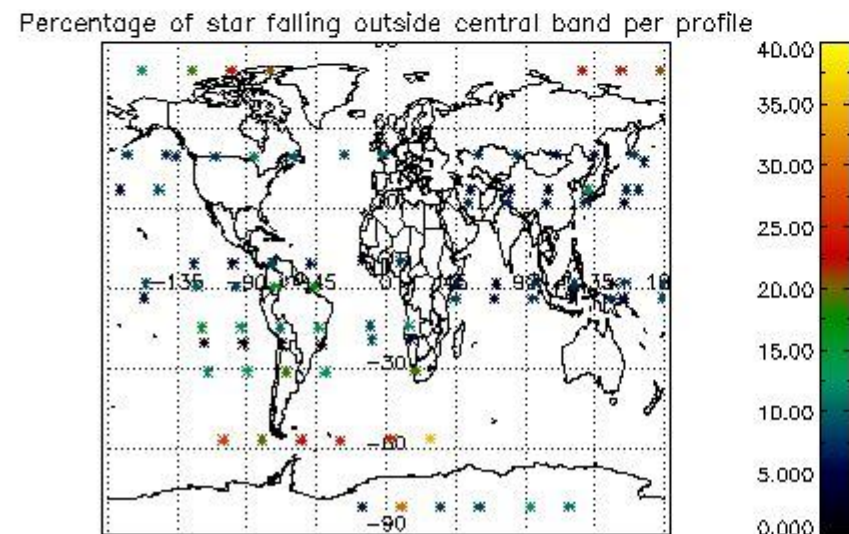
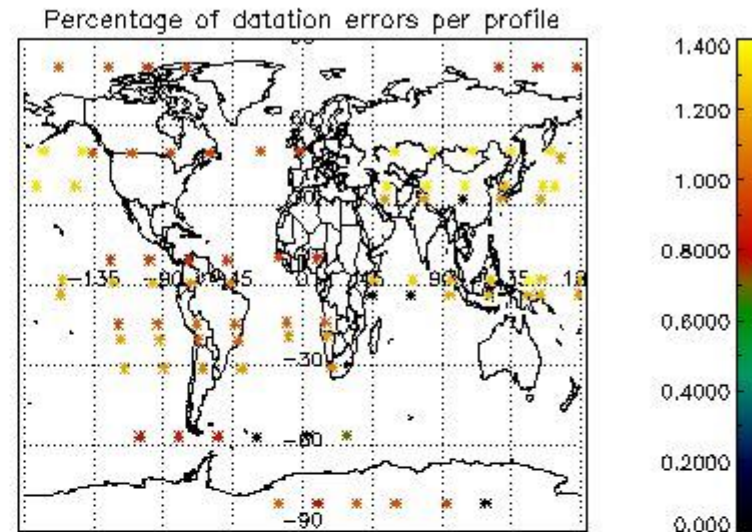
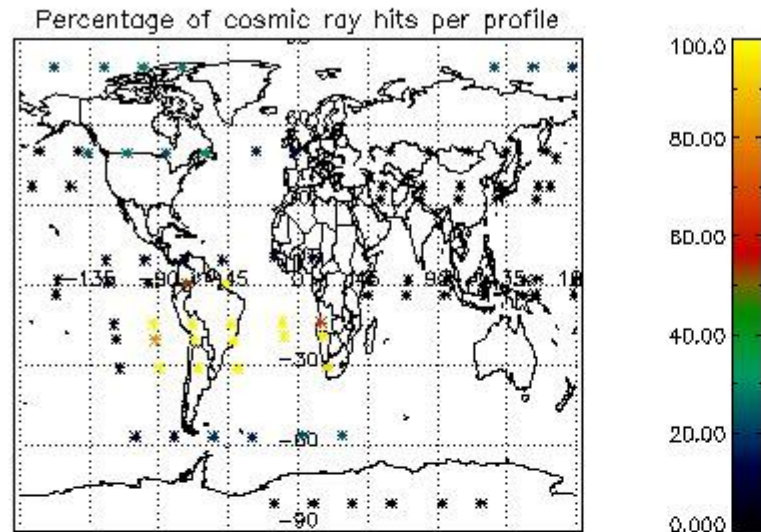
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	42.6966 %
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)



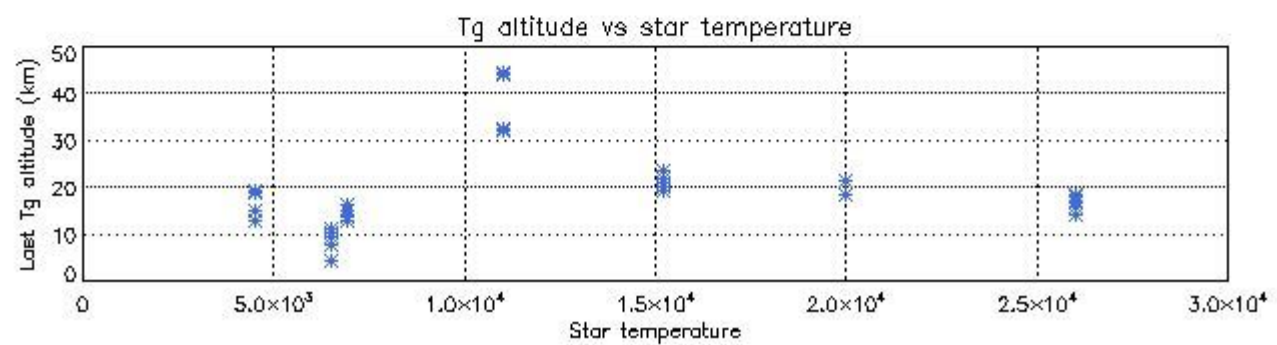
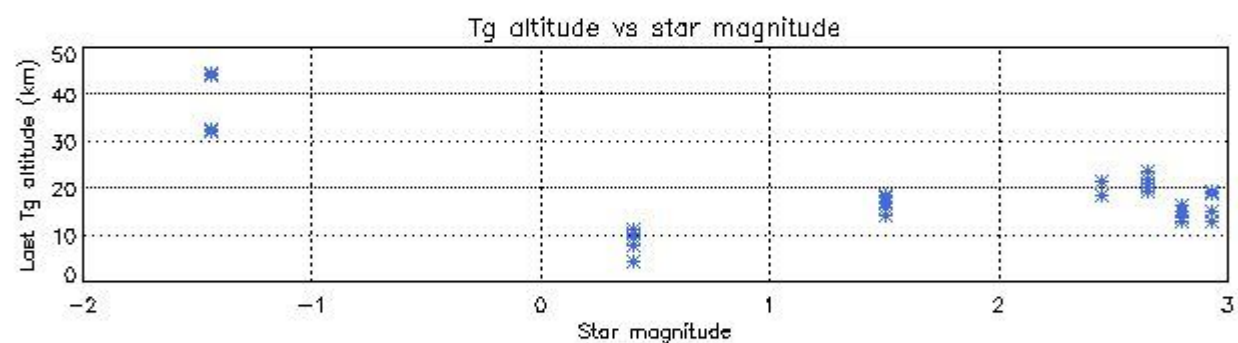
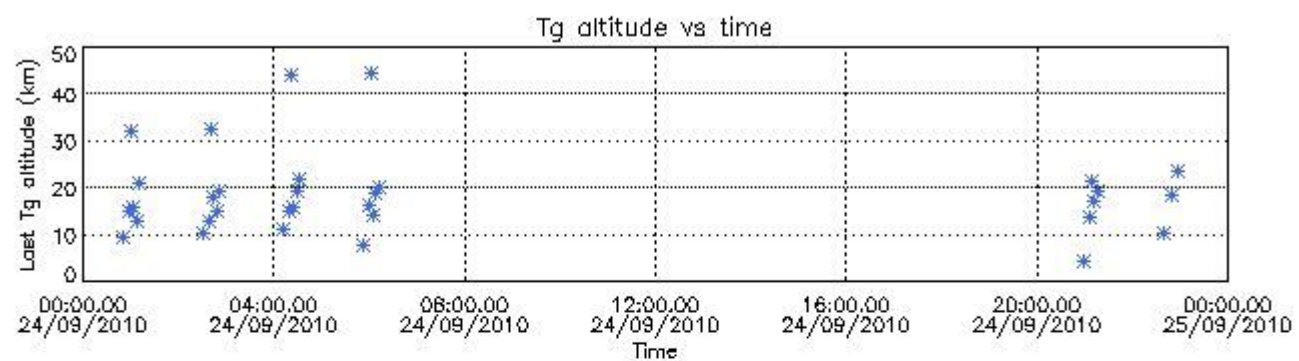
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	18.431	19.977	NaN
St. deviation:	8.8979	3.0044	NaN
Maximum:	44.590	28.506	NaN
Minimum:	4.0811	6.6383	NaN
Number of data:	33.000	43.000	NaN

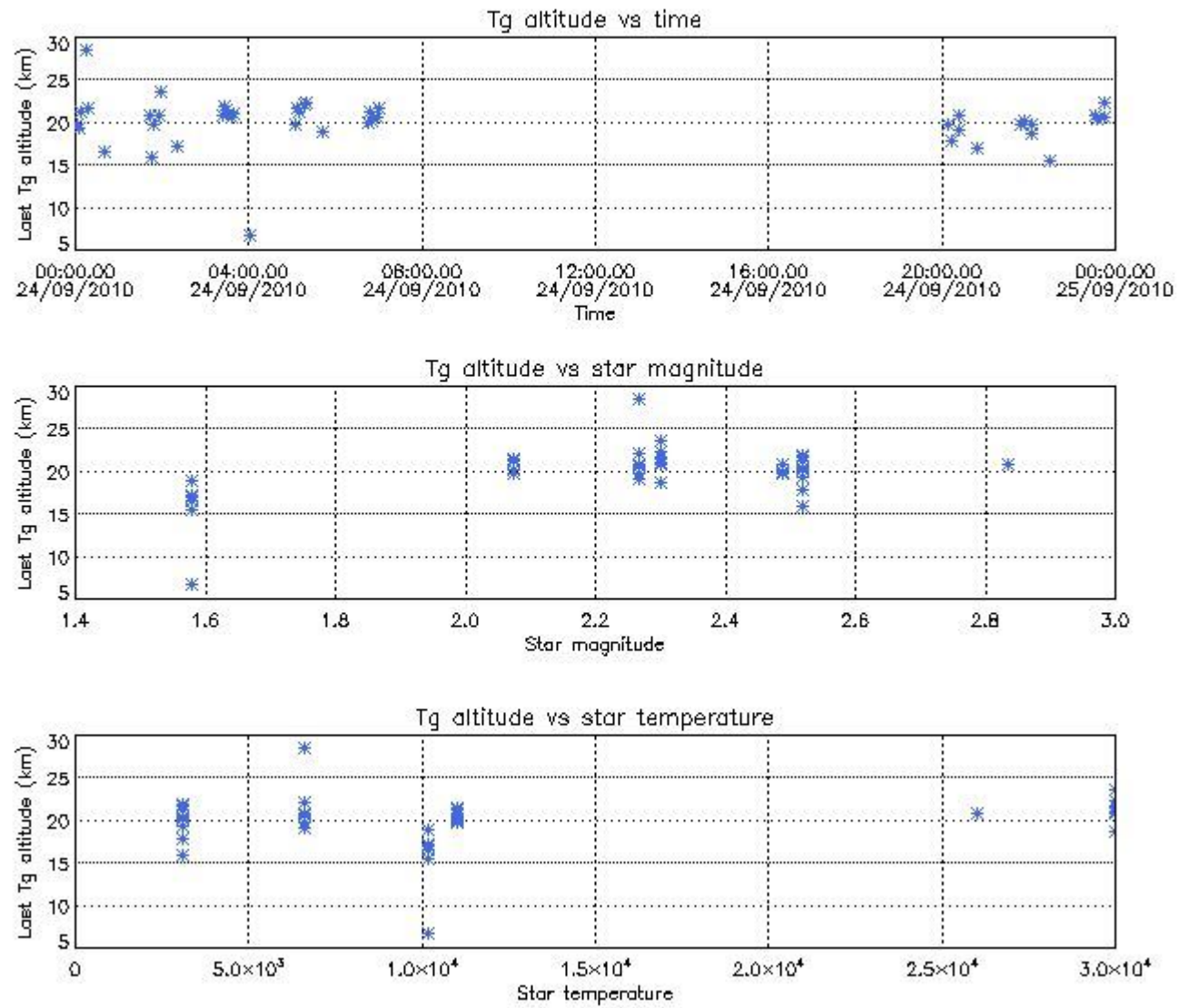
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

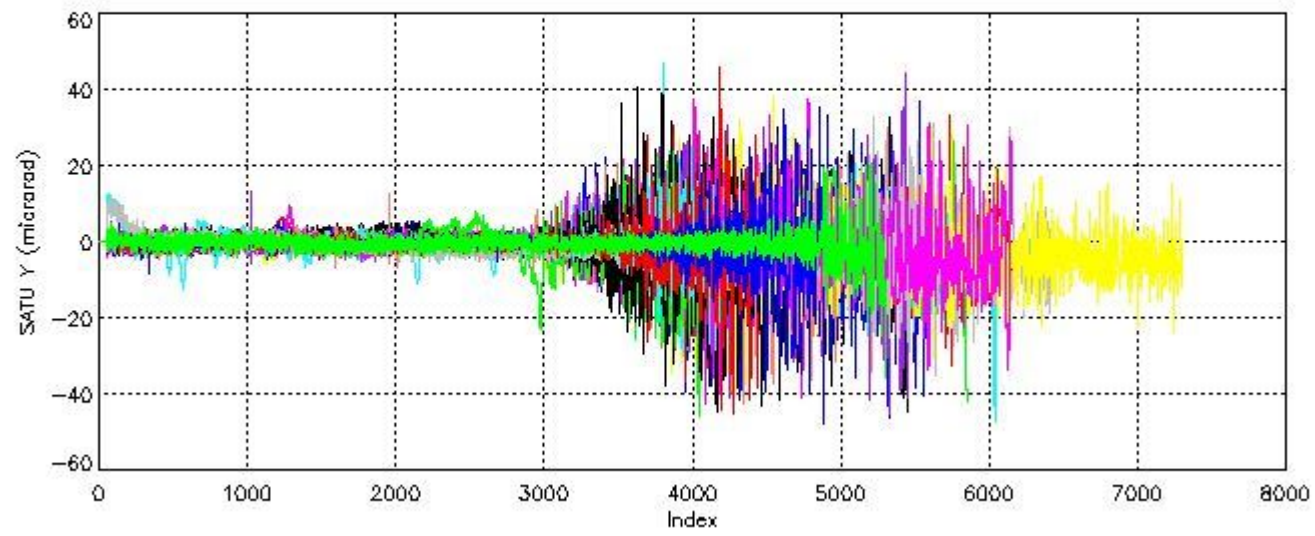
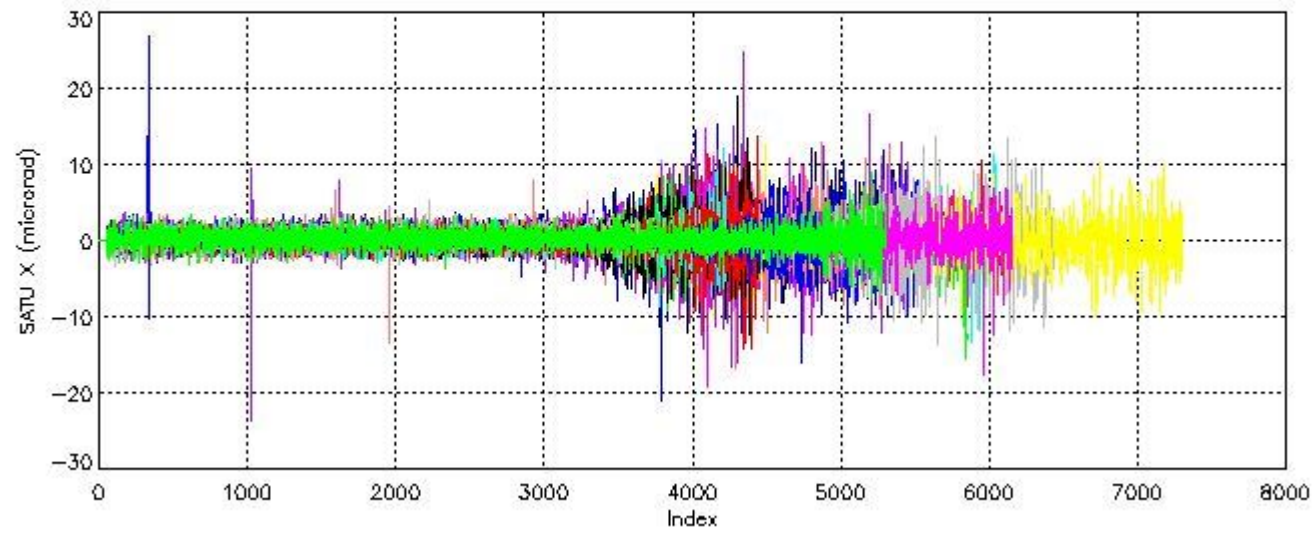


7. Star Acquisition and Tracking Unit (SATU)

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:	0.20198	-0.15973	0.16162	-0.20453
St. deviation:	0.58629	1.0695	0.69161	1.0587
Maximum:	26.900	12.900	4.9000	6.8000
Minimum:	-23.600	-12.700	-5.7000	-7.4000

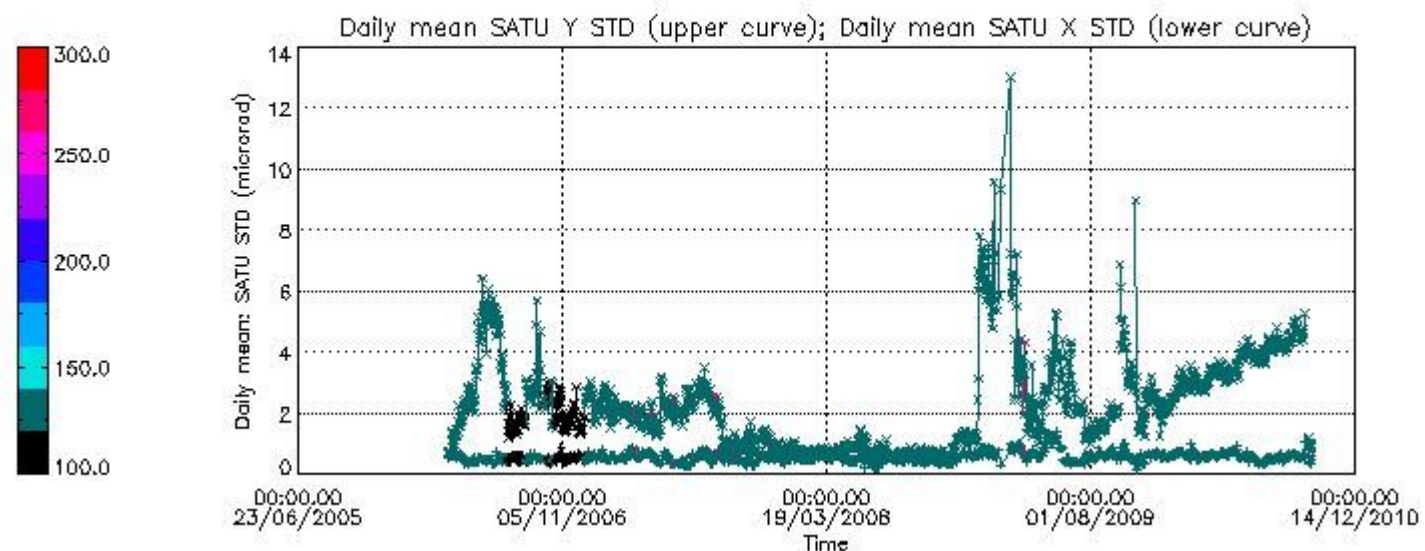
Number of data:	37350.	37350.	41850.	41850.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

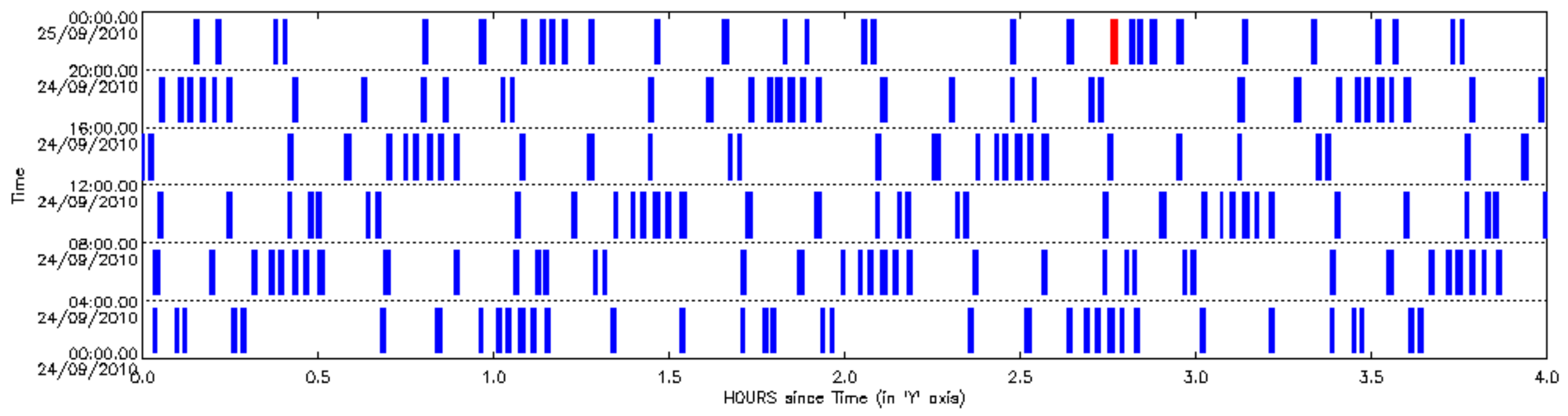


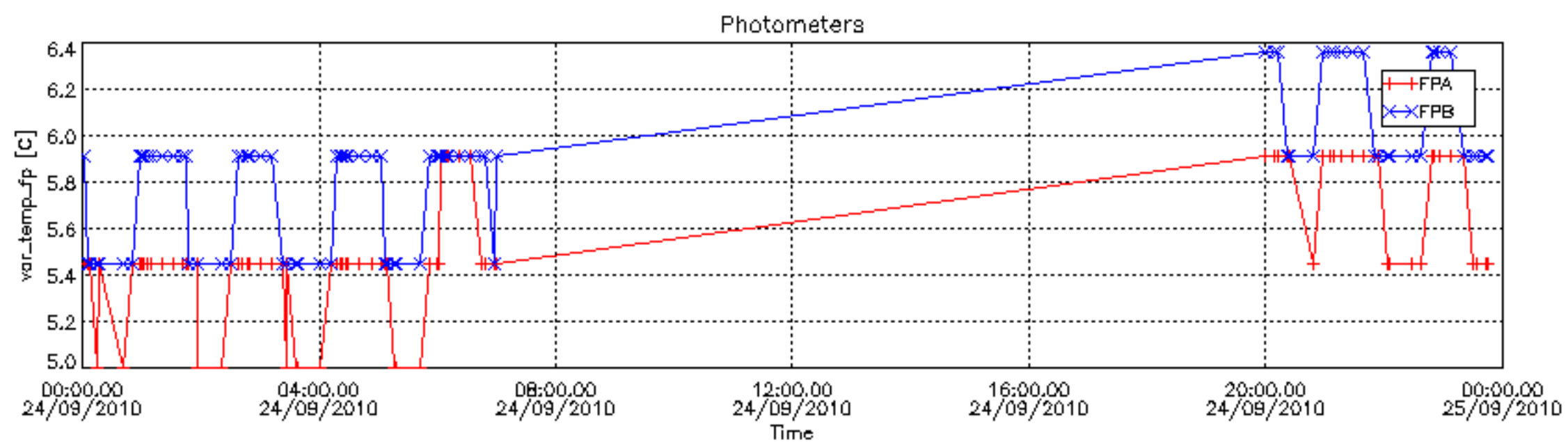
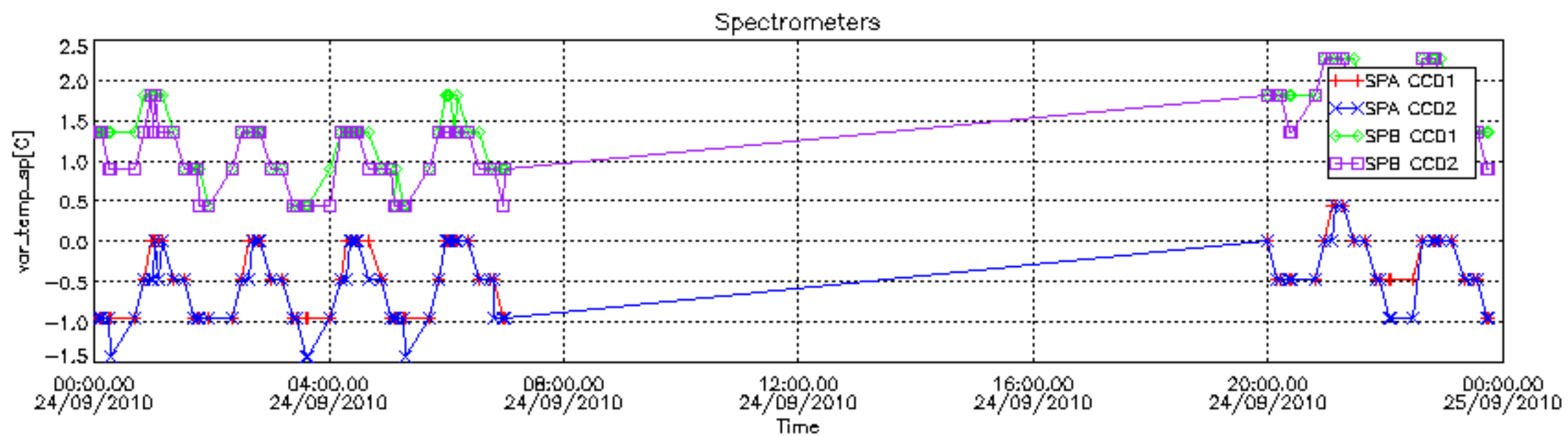
8. Auxiliary Data Files used for the production reported in section 2.4

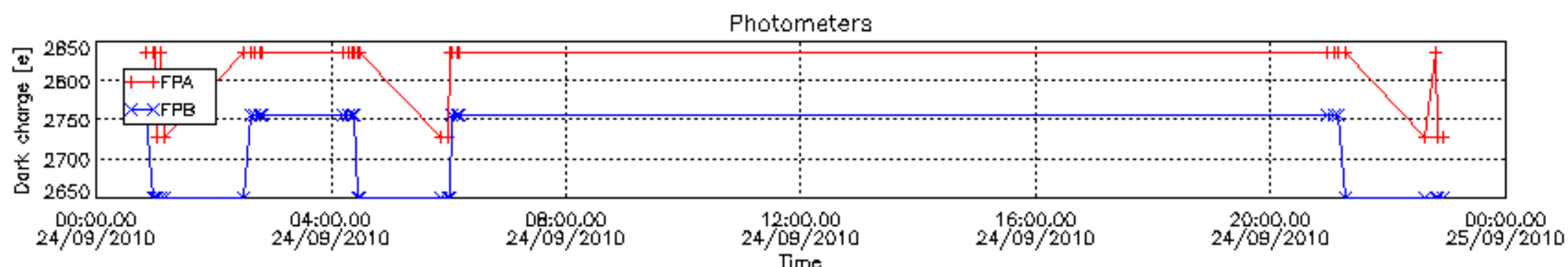
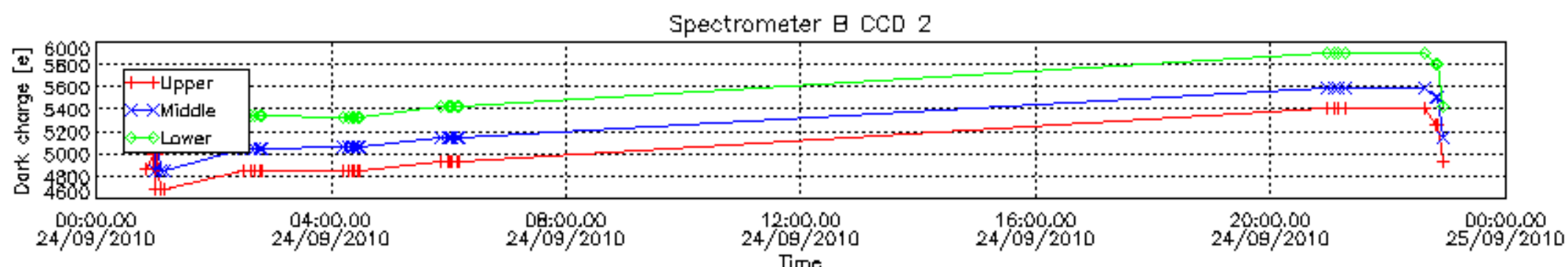
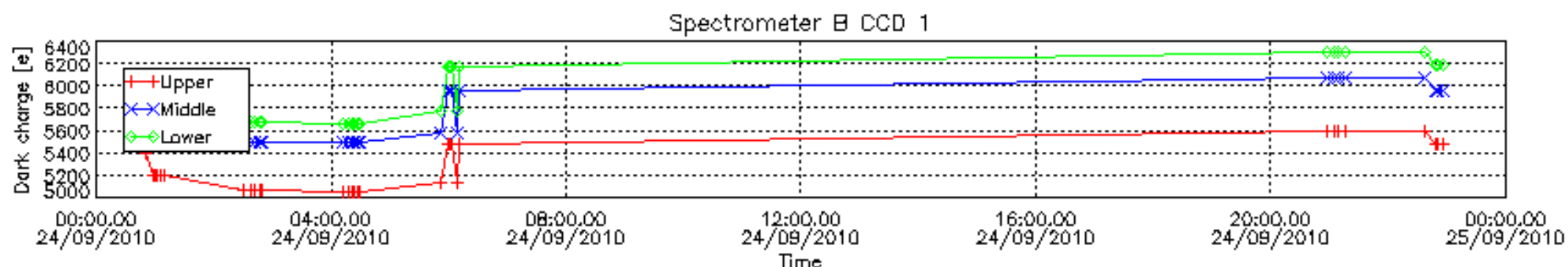
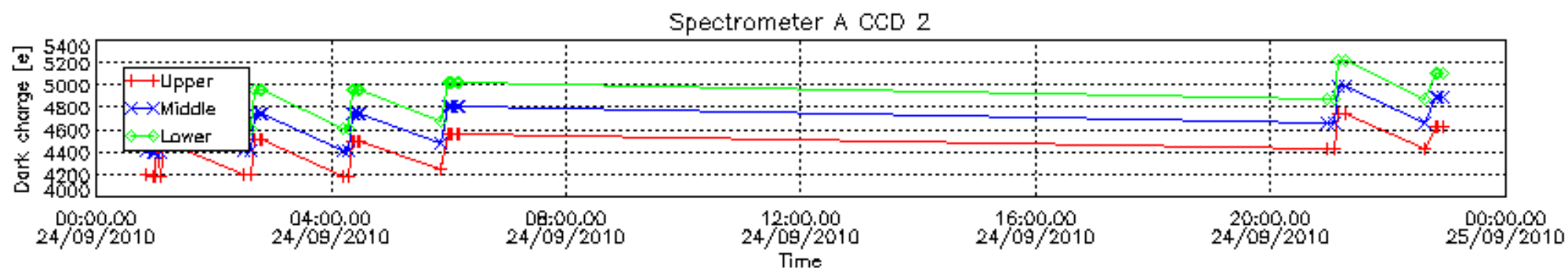
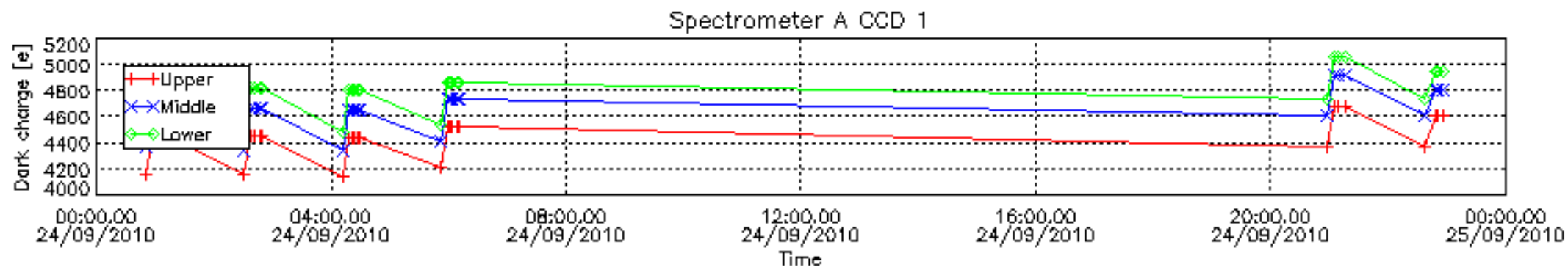
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

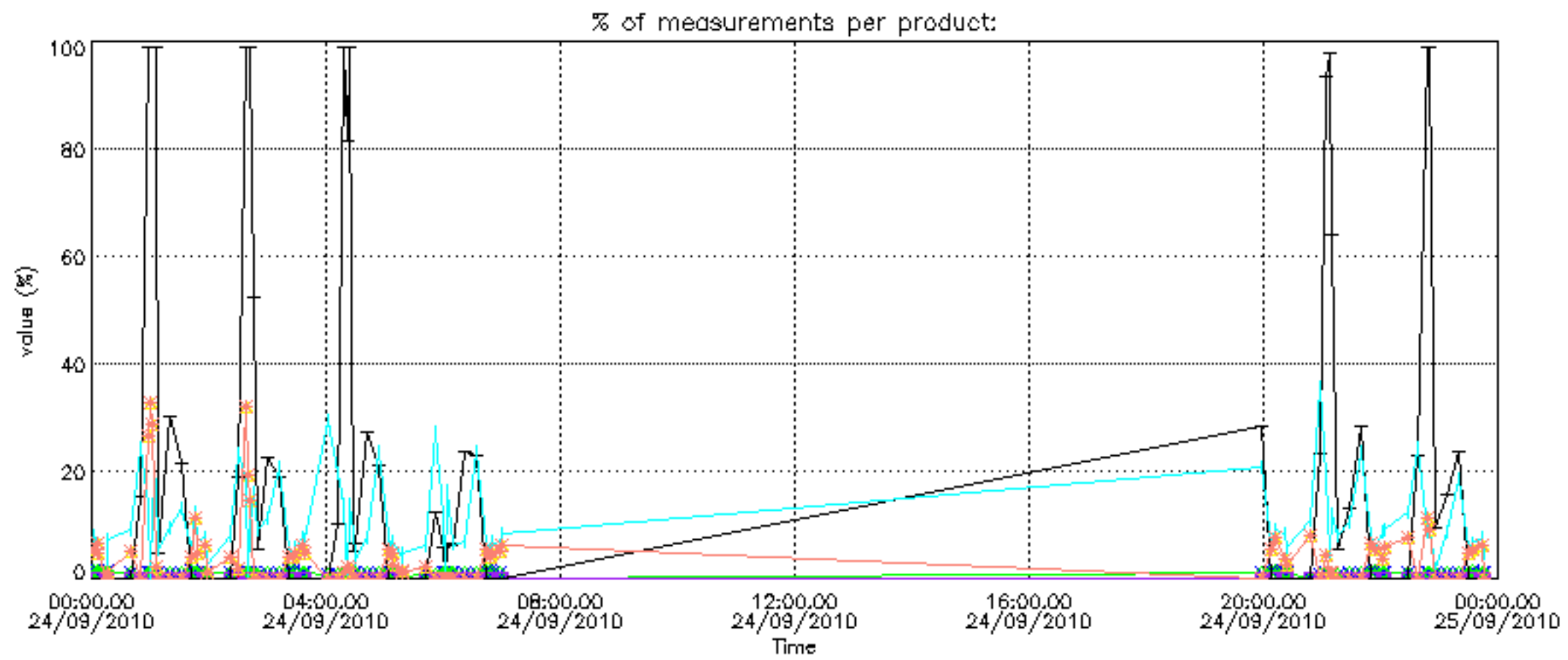
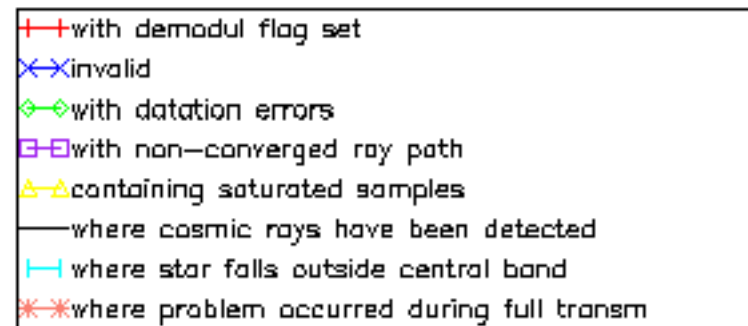
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	24-SEP-2010 00:01:41
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100923_133008_20100922_000000_20500101_000000	1	24-SEP-2010 00:01:41
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	24-SEP-2010 00:01:41
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	24-SEP-2010 00:01:41
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	24-SEP-2010 00:01:41
ECMWF_FILE	AUX_ECA_AXNECM20100924_052114_20100923_210000_20100924_090000	1	24-SEP-2010 00:01:41
ECMWF_FILE	AUX_ECF_AXNECM20100923_053817_20100923_210000_20100924_090000	8	24-SEP-2010 00:57:24
ECMWF_FILE	AUX_ECA_AXNECM20100924_052114_20100923_210000_20100924_090000	13	24-SEP-2010 01:20:02
ECMWF_FILE	AUX_ECF_AXNECM20100923_053817_20100923_210000_20100924_090000	14	24-SEP-2010 01:31:52
ECMWF_FILE	AUX_ECA_AXNECM20100924_172113_20100924_030000_20100924_150000	32	24-SEP-2010 03:36:27
ECMWF_FILE	AUX_ECF_AXNECM20100923_053817_20100923_210000_20100924_090000	48	24-SEP-2010 05:42:19
ECMWF_FILE	AUX_ECA_AXNECM20100924_172114_20100924_090000_20100924_210000	62	24-SEP-2010 19:58:29
ECMWF_FILE	AUX_ECF_AXNECM20100924_054113_20100924_150000_20100925_030000	68	24-SEP-2010 20:57:26
ECMWF_FILE	AUX_ECF_AXNECM20100924_054114_20100924_210000_20100925_090000	81	24-SEP-2010 22:48:35
OPTIONAL_ECMWF_FILE	MISSING	1	24-SEP-2010 00:01:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100923_231001_000057382093_00144_44787_1125.N1	1	24-SEP-2010 00:01:41
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100923_091817_20100922_185523_20101002_202135	8	24-SEP-2010 00:57:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100924_005058_000019132093_00145_44788_1211.N1	13	24-SEP-2010 01:20:02
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100923_091817_20100922_185523_20101002_202135	14	24-SEP-2010 01:31:52
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100924_033022_000066952093_00147_44790_1127.N1	32	24-SEP-2010 03:36:27

ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100923_091817_20100922_185523_20101002_202135	48	24-SEP-2010 05:42:19
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100924_194240_000038252093_00157_44800_1129.N1	62	24-SEP-2010 19:58:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100924_205145_000060572093_00157_44800_1130.N1	68	24-SEP-2010 20:57:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100924_223800_000057382093_00158_44801_1131.N1	81	24-SEP-2010 22:48:35

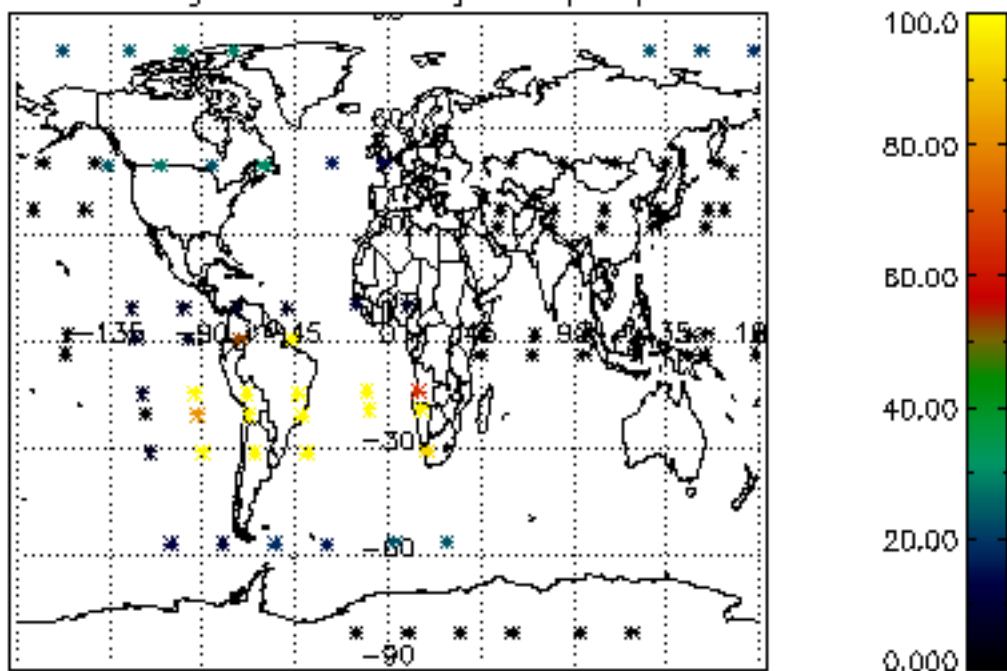




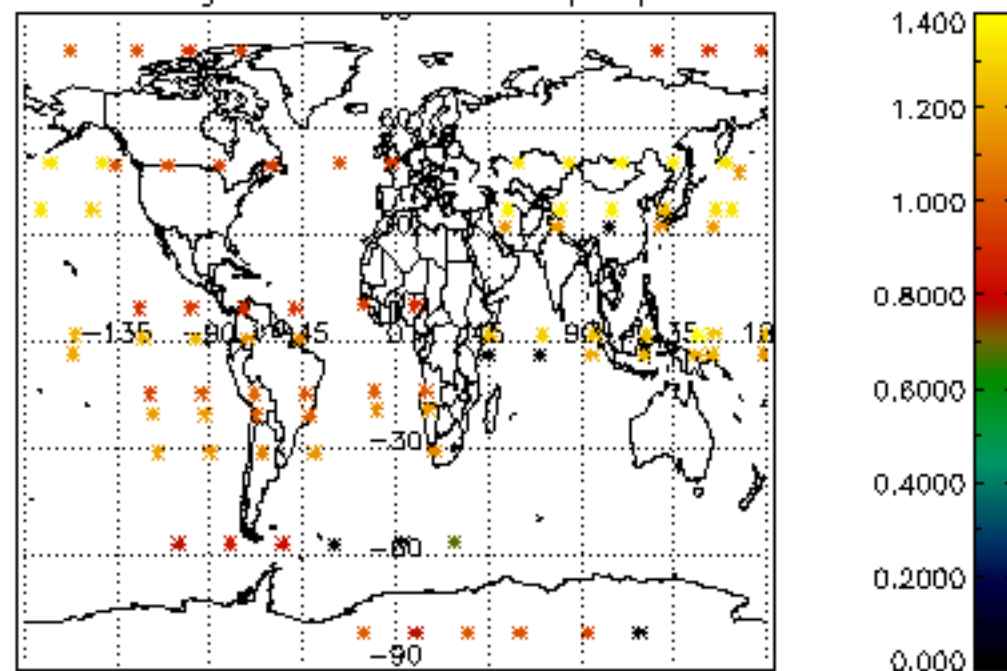




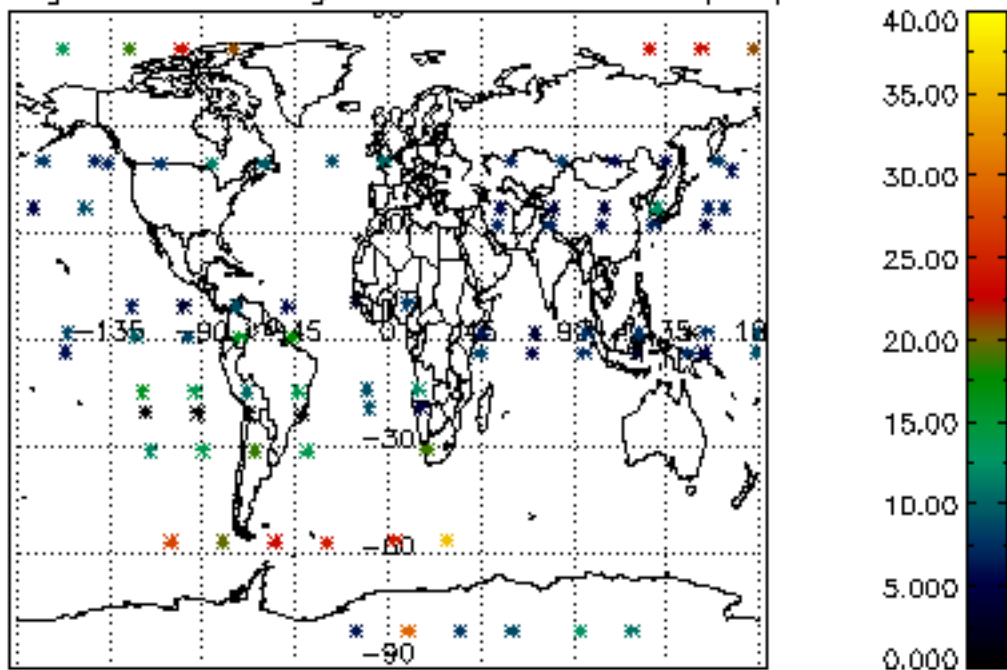
Percentage of cosmic ray hits per profile



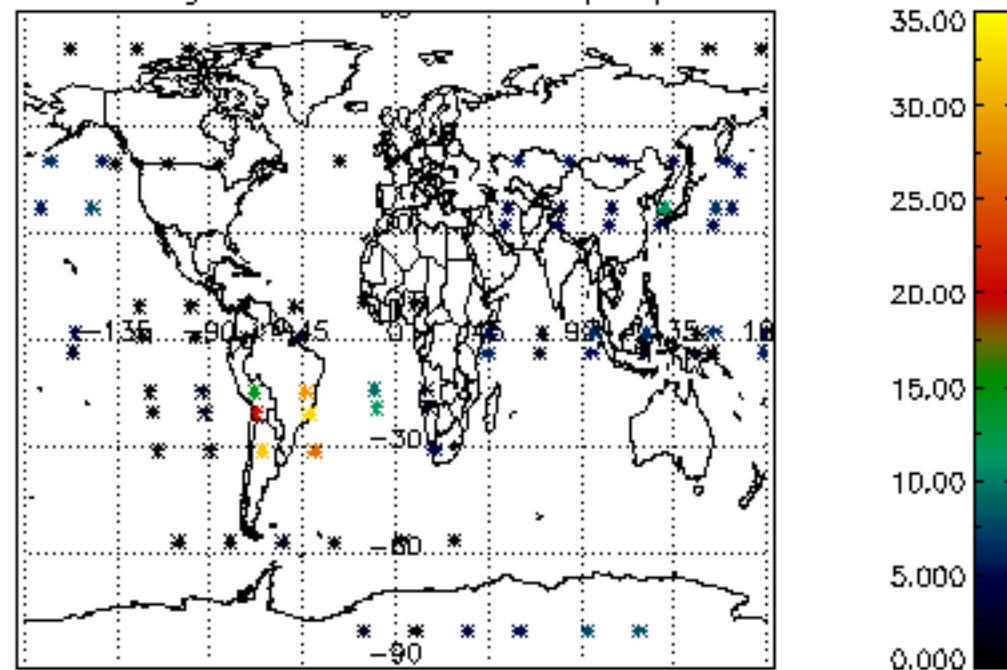
Percentage of datation errors per profile



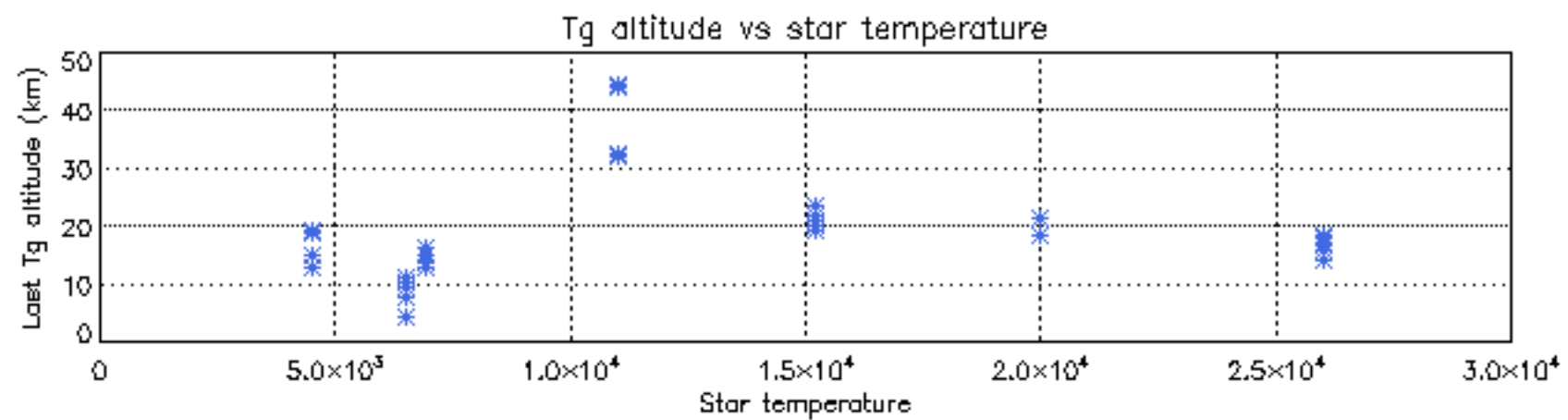
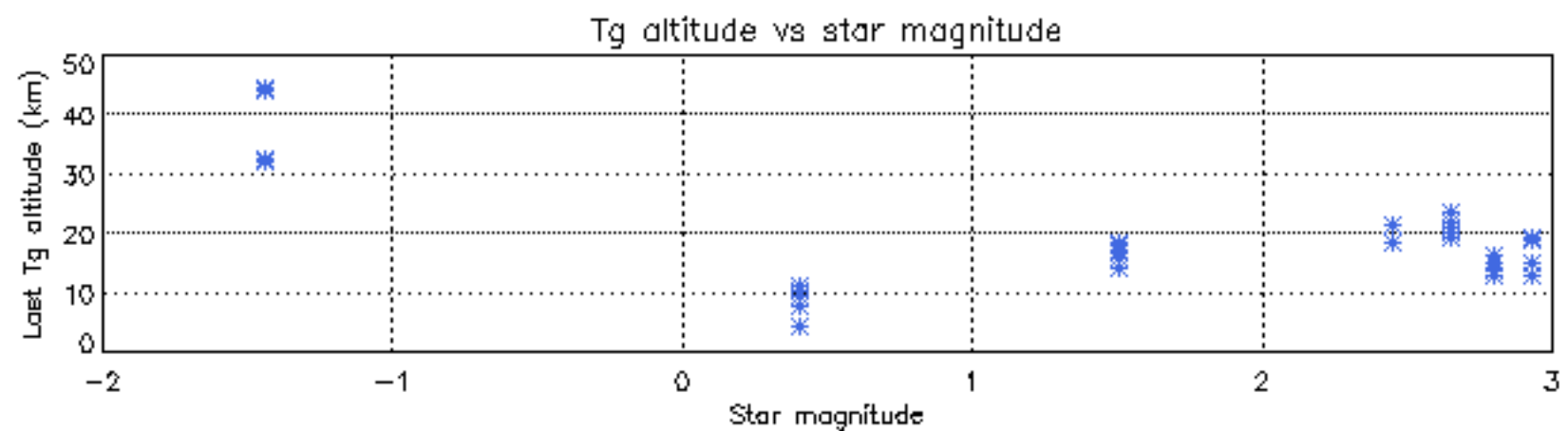
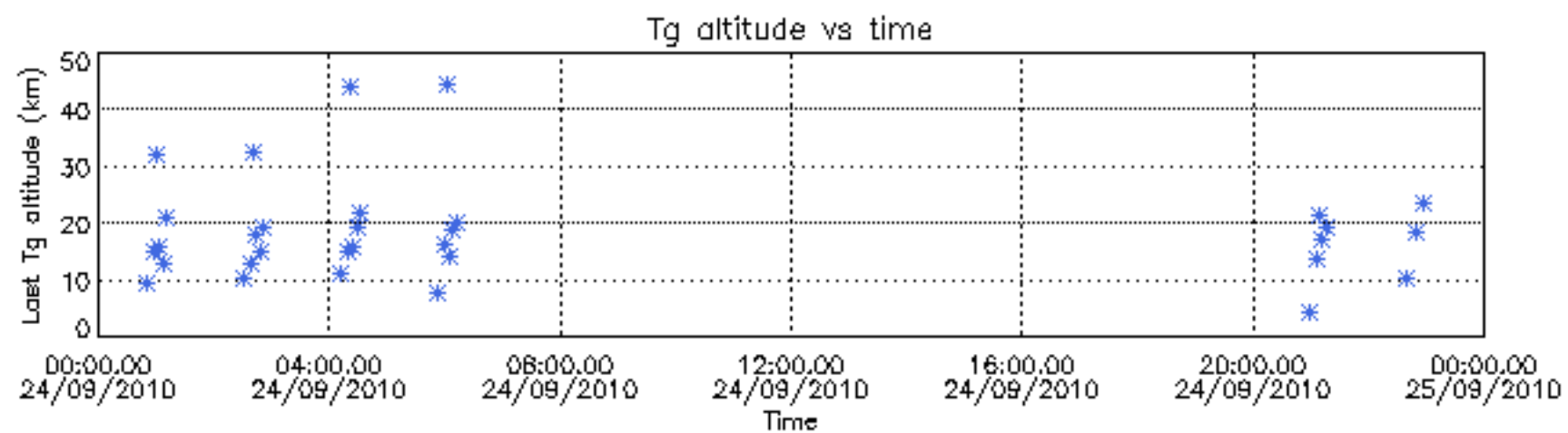
Percentage of star falling outside central band per profile



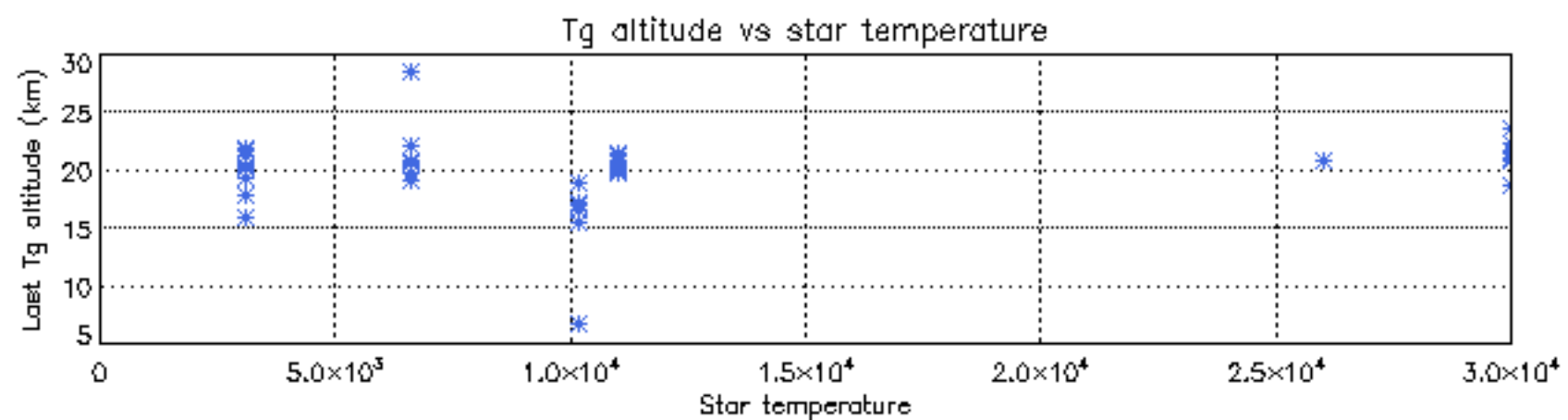
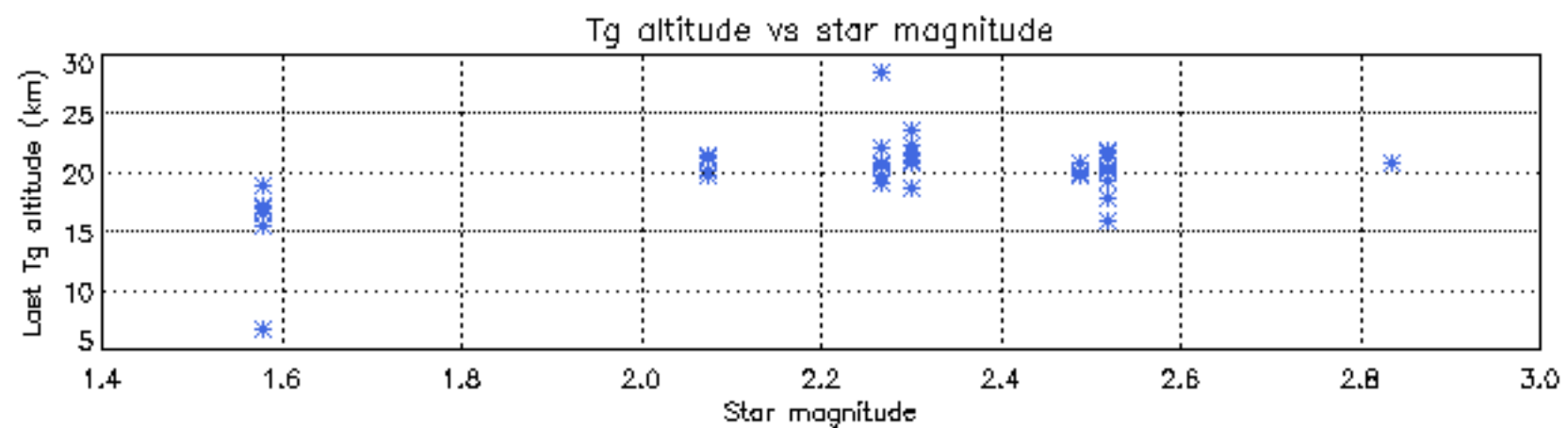
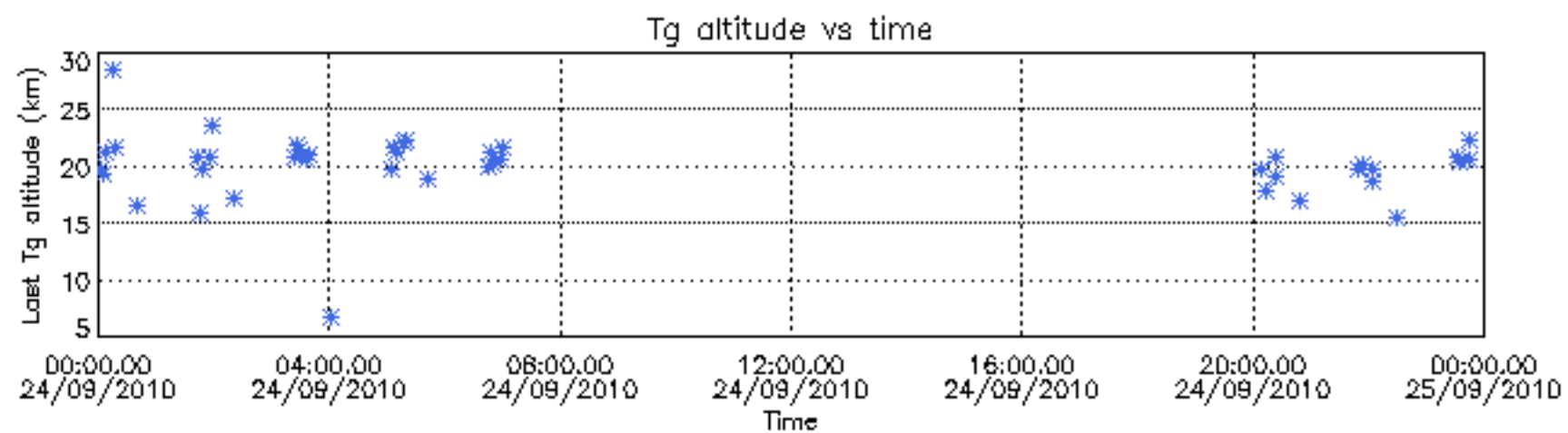
Percentage of saturation errors per profile

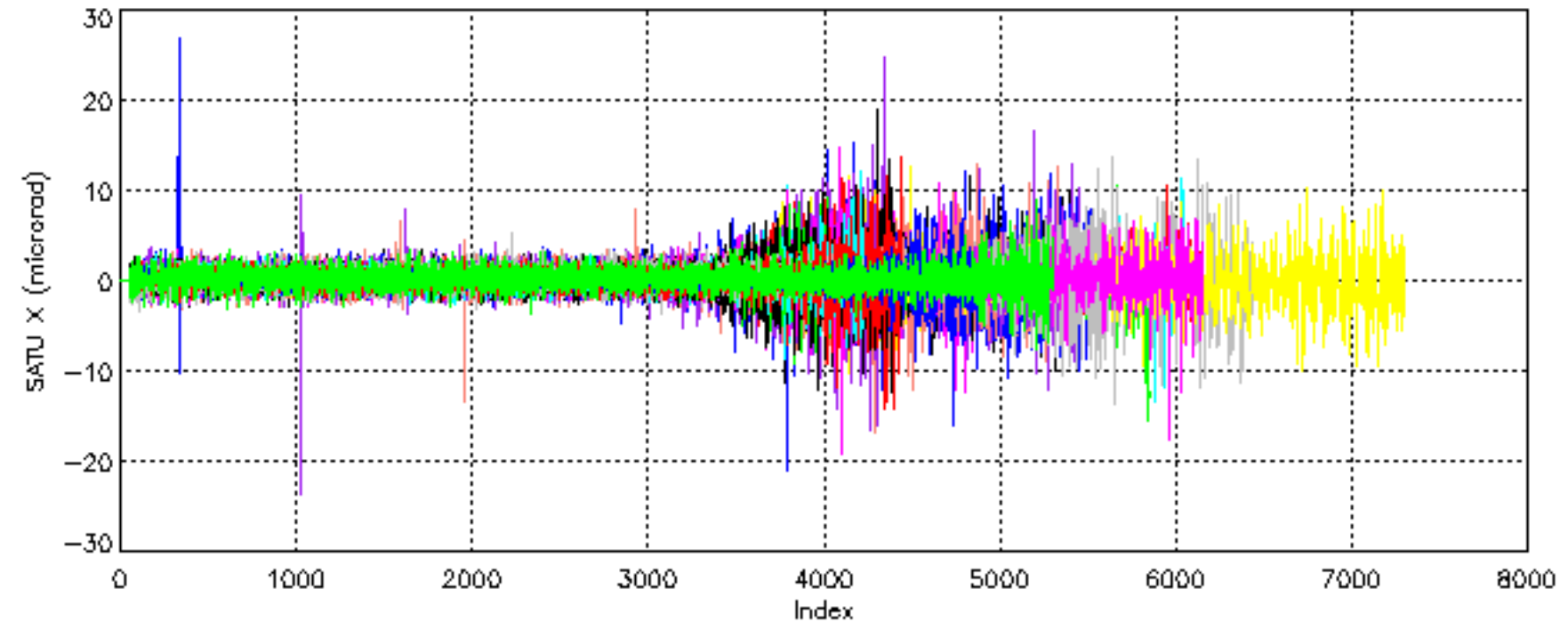


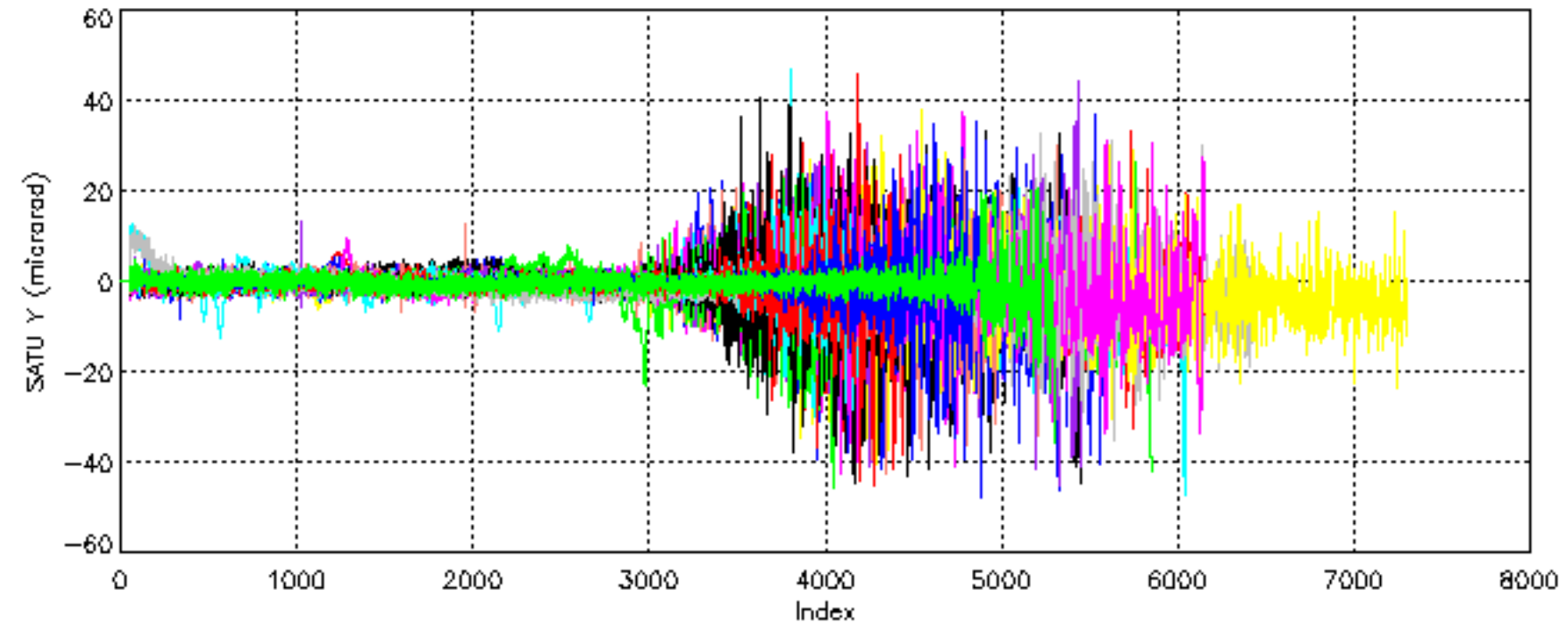
Tangent altitude at which the star is lost

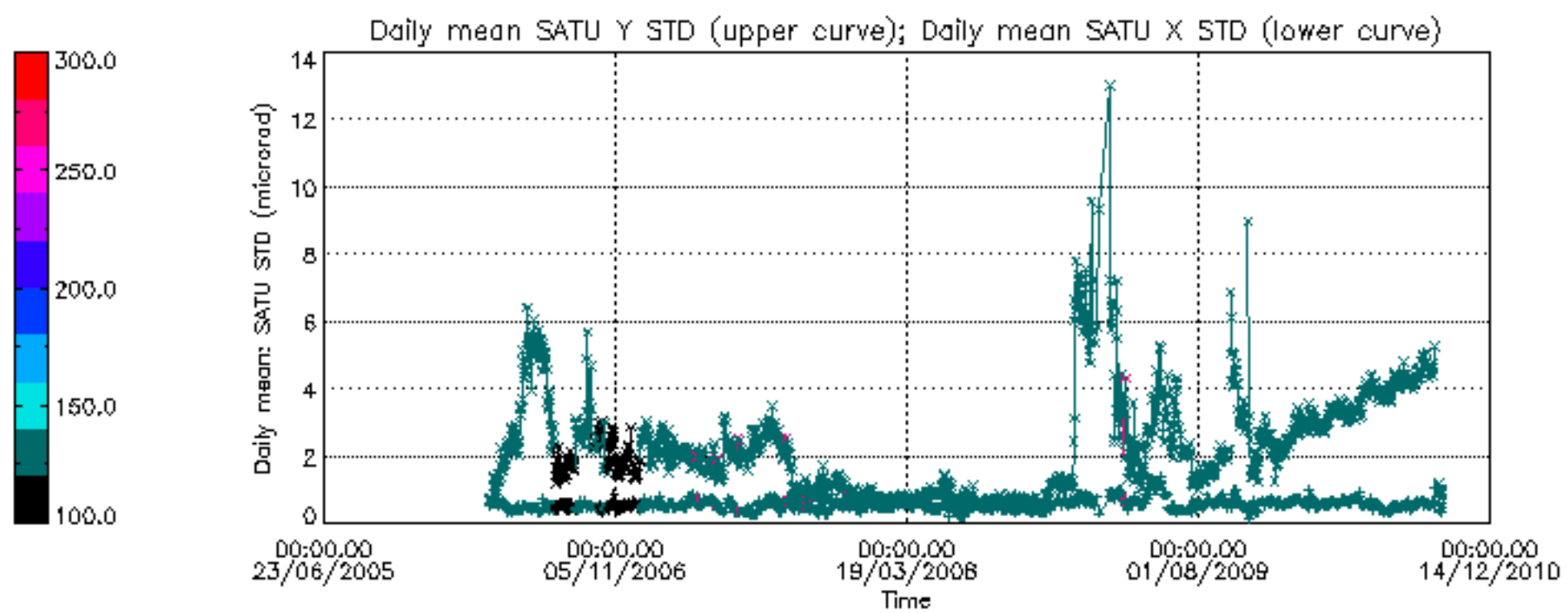


Tangent altitude at which the star is lost









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/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
22; 5680.7; 01-SEP-2010 03:03:52; Dark ; 52.0; 139; 9Bet Lep ; 2.83; 5600;occ; 104; 0;44460
23; 5795.5; 01-SEP-2010 03:05:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44460
24; 6562.2; 01-SEP-2010 03:18:33; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;44461
25; 6638.7; 01-SEP-2010 03:19:50; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;44461
26; 6996.5; 01-SEP-2010 03:25:48; Dark ; 54.0; 84; Alp Phe ; 2.40; 4500;occ; 108; 0;44461
27; 7364.8; 01-SEP-2010 03:31:56; Dark ; 50.0; 18; 24Alp PsA ; 1.17; 9700;occ; 100; 0;44461
28; 7931.4; 01-SEP-2010 03:41:23; Bright; 41.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 82; 0;44461
29; 8111.5; 01-SEP-2010 03:44:23; Bright; 39.0; 61; 8Eps Peg ; 2.10; 3900;occ; 78; 0;44461
30; 8537.9; 01-SEP-2010 03:51:29; Bright; 45.0; 164; 44Eta Peg ; 2.95; 5400;occ; 90; 0;44461
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 1; 960.5; 01-SEP-2010 01:45:12; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 1;44460
 2; 1328.3; 01-SEP-2010 01:51:20; Dark ; 49.0; 18; 24Alp PsA ; 1.17; 9700;occ; 98; 0;44460
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6; 668.1; 08-SEP-2010 23:07:59; Dark ; 44.5; 9; Alp Eri ; 0.45; 24000;occ; 89; 0;44573
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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
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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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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
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13; 5725.9; 08-SEP-2010 19:30:29; Dark ; 45.0; 177; 1Zet CMA ; 3.02; 26000;occ; 90; 0;44570
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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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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
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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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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
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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
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11; 670.4; 09-SEP-2010 04:09:49; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;44576
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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
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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
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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
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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
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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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7; 4642.3; 09-SEP-2010 08:37:13; Dark ; 52.5; 170; 27Eps Gem ; 3.00; 9700;occ; 105; 0;44578
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9; 4956.2; 09-SEP-2010 08:42:27; Dark ; 49.5; 8; 10Alp CMi ; 0.40; 6500;occ; 99; 0;44578
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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
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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
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11; 4649.8; 09-SEP-2010 11:58:32; Dark ; 81.5; 28; 12Bet Tau ; 1.65; 15200;occ; 163; 0;44580
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13; 5189.9; 09-SEP-2010 12:07:32; Dark ; 100.0; 14; 58Alp Ori ; 0.87; 3000;occ; 200; 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
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5; 4378.0; 09-SEP-2010 18:36:24; Bright; 49.0; 107; 37The Aur ; 2.65; 11000;occ; 98; 0;44584
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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
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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
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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
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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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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
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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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14; 6762.4; 16-SEP-2010 13:54:12; Dark ; 42.5; 9; Alp Eri ; 0.45; 24000;occ; 85; 0;44682
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15; 6762.9; 16-SEP-2010 15:34:49; Dark ; 46.5; 9; Alp Eri ; 0.45; 24000;occ; 93; 0;44683
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5; 3095.6; 21-SEP-2010 08:34:24; Bright; 42.0; 76; 27Gam Cas ; 2.30; 30000;occ; 84; 0;44750
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3; 2484.9; 22-SEP-2010 07:52:36; Bright; 43.5; 58; 21Alp And ; 2.07; 11000;occ; 87; 0;44764
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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
6; 4493.7; 22-SEP-2010 10:06:41; Bright; 48.5; 24; 66Alp Gem ; 1.58; 10200;occ; 97; 0;44765
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8; 5496.9; 22-SEP-2010 10:23:24; Dark ; 41.0; 132; 15Rho Pup ; 2.80; 6900;occ; 82; 0;44765
9; 5695.3; 22-SEP-2010 10:26:43; Dark ; 54.0; 37; 25Del CMA ; 1.83; 5900;occ; 108; 0;44765
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11; 5993.3; 22-SEP-2010 10:31:40; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44765
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4; 2990.7; 22-SEP-2010 11:22:14; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44766
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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
12; 5812.1; 22-SEP-2010 18:51:39; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;44770
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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 2; 1540.7; 22-SEP-2010 19:21:03; Dark ; 53.5; 52; 16Bet Cet ; 2.04; 4500;occ; 107; 0;44771
 3; 2168.5; 22-SEP-2010 19:31:31; Bright; 37.0; 90; 54Alp Peg ; 2.49; 11000;occ; 74; 0;44771
 4; 2393.5; 22-SEP-2010 19:35:16; Bright; 40.0; 93; 53Bet Peg ; 2.52; 3100;occ; 80; 0;44771
 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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1;	1542.6;	23-SEP-2010	17:08:52;	Dark	;	55.0;	52;	16Bet	Cet	;	2.04;	4500;	occ;	110;	0;	44784
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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10; 2389.9; 24-SEP-2010 21:53:10; Bright; 37.5; 93; 53Bet Peg ; 2.52; 3100;occ; 75; 0;44801
11; 2978.1; 24-SEP-2010 22:02:58; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44801
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 4; -95.8; 25-SEP-2010 22:20:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44815
 5; 31.7; 25-SEP-2010 22:22:51; Dark ; 43.5; 161; Tau Pup ; 2.93; 4500;occ; 87; 0;44816
 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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7; 34.0; 26-SEP-2010 03:24:41; Dark ; 50.5; 161; Tau Pup ; 2.93; 4500;occ; 101; 0;44819
8; 197.2; 26-SEP-2010 03:27:24; Dark ; 55.0; 108; Alp Col ; 2.65; 15200;occ; 110; 0;44819
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4; 42.1; 26-SEP-2010 23:32:00; Dark ; 49.5; 161; Tau Pup ; 2.93; 4500;occ; 99; 0;44831
5; 214.5; 26-SEP-2010 23:34:52; Dark ; 57.5; 108; Alp Col ; 2.65; 15200;occ; 115; 0;44831
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2; 2193.7; 28-SEP-2010 19:43:25; Bright; 41.0; 140; 88Gam Peg ; 2.83; 26000;occ; 82; 0;44857
3; 2445.9; 28-SEP-2010 19:47:38; Bright; 42.5; 58; 21Alp And ; 2.07; 11000;occ; 85; 0;44857
4; 2686.2; 28-SEP-2010 19:51:38; Bright; 51.5; 53; 43Bet And ; 2.05; 3300;occ; 103; 0;44857
5; 2960.7; 28-SEP-2010 19:56:12; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44857
6; 3045.9; 28-SEP-2010 19:57:38; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44857
7; 4507.2; 28-SEP-2010 20:21:59; Bright; 48.0; 24; 66Alp Gem ; 1.58; 10200;occ; 96; 0;44857
8; 5129.8; 28-SEP-2010 20:32:22; Dark ; 68.0; 8; 10Alp CMi ; 0.40; 6500;occ; 136; 0;44857
9; 5559.2; 28-SEP-2010 20:39:31; Dark ; 43.0; 132; 15Rho Pup ; 2.80; 6900;occ; 86; 0;44857
10; 5767.8; 28-SEP-2010 20:42:59; Dark ; 46.5; 88; 31Eta CMA ; 2.45; 20000;occ; 93; 0;44857
11; 5865.2; 28-SEP-2010 20:44:37; Dark ; 51.0; 23; 21Eps CMA ; 1.50; 26000;occ; 102; 0;44857
12; 5969.3; 28-SEP-2010 20:46:21; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44857
13; 6097.4; 28-SEP-2010 20:48:29; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;44858
14; 6181.3; 28-SEP-2010 20:49:53; Dark ; 55.5; 2; Alp Car ; -0.74; 7000;occ; 111; 0;44858
15; 6290.1; 28-SEP-2010 20:51:42; Dark ; 48.0; 108; Alp Col ; 2.65; 15200;occ; 96; 0;44858
16; 6925.2; 28-SEP-2010 21:02:17; Dark ; 51.5; 157; The1Eri ; 2.91; 9300;occ; 103; 0;44858
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2; -168.2; 29-SEP-2010 00:05:51; Dark ; 54.5; 23; 21Eps CMA ; 1.50; 26000;occ; 109; 0;44859
3; -65.2; 29-SEP-2010 00:07:34; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44859
4; 62.8; 29-SEP-2010 00:09:42; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;44860
5; 146.9; 29-SEP-2010 00:11:06; Dark ; 58.0; 2; Alp Car ; -0.74; 7000;occ; 116; 0;44860
6; 257.3; 29-SEP-2010 00:12:57; Dark ; 46.0; 108; Alp Col ; 2.65; 15200;occ; 92; 0;44860
7; 890.8; 29-SEP-2010 00:23:30; Dark ; 51.0; 157; The1Eri ; 2.91; 9300;occ; 102; 0;44860
8; 1553.0; 29-SEP-2010 00:34:32; Dark ; 50.5; 52; 16Bet Cet ; 2.04; 4500;occ; 101; 0;44860
9; 2192.8; 29-SEP-2010 00:45:12; Bright; 41.5; 140; 88Gam Peg ; 2.83; 26000;occ; 83; 0;44860
10; 2444.8; 29-SEP-2010 00:49:24; Bright; 41.5; 58; 21Alp And ; 2.07; 11000;occ; 83; 0;44860
11; 2683.8; 29-SEP-2010 00:53:23; Bright; 47.5; 53; 43Bet And ; 2.05; 3300;occ; 95; 0;44860
12; 2959.9; 29-SEP-2010 00:57:59; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;44860
13; 3044.8; 29-SEP-2010 00:59:24; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44860
14; 4507.5; 29-SEP-2010 01:23:47; Bright; 33.0; 24; 66Alp Gem ; 1.58; 10200;occ; 66; 0;44860
15; 5132.5; 29-SEP-2010 01:34:12; Dark ; 52.5; 8; 10Alp CMi ; 0.40; 6500;occ; 105; 0;44860

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 2; -264.8; 29-SEP-2010 01:44:50; Dark ; 47.0; 88; 31Eta CMA ; 2.45; 20000;occ; 94; 0;44860
 3; -167.0; 29-SEP-2010 01:46:28; Dark ; 53.5; 23; 21Eps CMA ; 1.50; 26000;occ; 107; 0;44860
 4; -64.5; 29-SEP-2010 01:48:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44860
 5; 63.8; 29-SEP-2010 01:50:19; Dark ; 41.0; 161; Tau Pup ; 2.93; 4500;occ; 82; 0;44861
 6; 147.6; 29-SEP-2010 01:51:43; Dark ; 45.5; 2; Alp Car ;-0.74; 7000;occ; 91; 0;44861
 7; 258.7; 29-SEP-2010 01:53:34; Dark ; 46.0; 108; Alp Col ; 2.65; 15200;occ; 92; 0;44861
 8; 891.8; 29-SEP-2010 02:04:07; Dark ; 52.0; 157; The1Eri ; 2.91; 9300;occ; 104; 0;44861
 9; 1553.1; 29-SEP-2010 02:15:08; Dark ; 50.0; 52; 16Bet Cet ; 2.04; 4500;occ; 100; 0;44861
 10; 2192.7; 29-SEP-2010 02:25:48; Bright; 40.5; 140; 88Gam Peg ; 2.83; 26000;occ; 81; 0;44861
 11; 2444.5; 29-SEP-2010 02:30:00; Bright; 42.0; 58; 21Alp And ; 2.07; 11000;occ; 84; 0;44861
 12; 2683.1; 29-SEP-2010 02:33:58; Bright; 47.5; 53; 43Bet And ; 2.05; 3300;occ; 95; 0;44861
 13; 2959.4; 29-SEP-2010 02:38:35; Bright; 37.0; 74; 11Bet Cas ; 2.27; 6600;occ; 74; 0;44861
 14; 3044.3; 29-SEP-2010 02:39:59; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;44861

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 2; -902.4; 29-SEP-2010 03:14:49; Dark ; 53.0; 8; 10Alp CMI ; 0.40; 6500;occ; 106; 0;44861
 3; -473.5; 29-SEP-2010 03:21:58; Dark ; 47.0; 132; 15Rho Pup ; 2.80; 6900;occ; 94; 0;44861
 4; -264.0; 29-SEP-2010 03:25:27; Dark ; 47.0; 88; 31Eta CMA ; 2.45; 20000;occ; 94; 0;44861
 5; -165.7; 29-SEP-2010 03:27:05; Dark ; 51.5; 23; 21Eps CMA ; 1.50; 26000;occ; 103; 0;44861
 6; -63.8; 29-SEP-2010 03:28:47; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44861
 7; 64.5; 29-SEP-2010 03:30:56; Dark ; 45.0; 161; Tau Pup ; 2.93; 4500;occ; 90; 0;44862
 8; 148.3; 29-SEP-2010 03:32:19; Dark ; 55.5; 2; Alp Car ;-0.74; 7000;occ; 111; 0;44862
 9; 260.2; 29-SEP-2010 03:34:11; Dark ; 43.0; 108; Alp Col ; 2.65; 15200;occ; 86; 0;44862
 10; 892.4; 29-SEP-2010 03:44:44; Dark ; 50.5; 157; The1Eri ; 2.91; 9300;occ; 101; 0;44862
 11; 1553.2; 29-SEP-2010 03:55:44; Dark ; 49.5; 52; 16Bet Cet ; 2.04; 4500;occ; 99; 0;44862
 12; 2192.4; 29-SEP-2010 04:06:24; Bright; 41.5; 140; 88Gam Peg ; 2.83; 26000;occ; 83; 0;44862
 13; 2444.4; 29-SEP-2010 04:10:36; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44862
 14; 2682.5; 29-SEP-2010 04:14:34; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;44862
 15; 2959.3; 29-SEP-2010 04:19:10; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;44862
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 2;-1442.4; 29-SEP-2010 04:46:25; Bright; 55.0; 17; 78Bet Gem ; 1.16; 4500;occ; 110; 0;44862
 3; -901.4; 29-SEP-2010 04:55:26; Dark ; 44.0; 8; 10Alp CMI ; 0.40; 6500;occ; 88; 0;44862
 4; -472.9; 29-SEP-2010 05:02:34; Dark ; 45.5; 132; 15Rho Pup ; 2.80; 6900;occ; 91; 0;44862
 5; -262.9; 29-SEP-2010 05:06:04; Dark ; 46.5; 88; 31Eta CMA ; 2.45; 20000;occ; 93; 0;44862
 6; -164.5; 29-SEP-2010 05:07:43; Dark ; 53.0; 23; 21Eps CMA ; 1.50; 26000;occ; 106; 0;44862
 7; -63.1; 29-SEP-2010 05:09:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44862
 8; 65.1; 29-SEP-2010 05:11:32; Dark ; 41.0; 161; Tau Pup ; 2.93; 4500;occ; 82; 0;44863
 9; 149.0; 29-SEP-2010 05:12:56; Dark ; 55.5; 2; Alp Car ;-0.74; 7000;occ; 111; 0;44863
 10; 261.8; 29-SEP-2010 05:14:49; Dark ; 43.0; 108; Alp Col ; 2.65; 15200;occ; 86; 0;44863
 11; 893.2; 29-SEP-2010 05:25:20; Dark ; 49.5; 157; The1Eri ; 2.91; 9300;occ; 99; 0;44863
 12; 1553.4; 29-SEP-2010 05:36:20; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;44863
 13; 2192.0; 29-SEP-2010 05:46:59; Bright; 41.5; 140; 88Gam Peg ; 2.83; 26000;occ; 83; 0;44863
 14; 2444.1; 29-SEP-2010 05:51:11; Bright; 39.5; 58; 21Alp And ; 2.07; 11000;occ; 79; 0;44863
 15; 2681.7; 29-SEP-2010 05:55:09; Bright; 51.0; 53; 43Bet And ; 2.05; 3300;occ; 102; 0;44863
 16; 2959.0; 29-SEP-2010 05:59:46; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44863
 17; 3043.6; 29-SEP-2010 06:01:11; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;44863

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 2; 2190.0; 29-SEP-2010 20:52:20; Bright; 41.5; 140; 88Gam Peg ; 2.83; 26000;occ; 83; 0;44872
 3; 2441.2; 29-SEP-2010 20:56:32; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44872
 4; 2674.7; 29-SEP-2010 21:00:25; Bright; 50.5; 53; 43Bet And ; 2.05; 3300;occ; 101; 0;44872
 5; 2956.5; 29-SEP-2010 21:05:07; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;44872
 6; 3039.7; 29-SEP-2010 21:06:30; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44872
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 2;-1442.3; 29-SEP-2010 06:27:01; Bright; 54.5; 17; 78Bet Gem ; 1.16; 4500;occ; 109; 0;44863
 3; -900.4; 29-SEP-2010 06:36:03; Dark ; 44.0; 8; 10Alp CMI ; 0.40; 6500;occ; 88; 0;44863
 4; -472.0; 29-SEP-2010 06:43:11; Dark ; 46.0; 132; 15Rho Pup ; 2.80; 6900;occ; 92; 0;44863
 5; -261.9; 29-SEP-2010 06:46:41; Dark ; 52.0; 88; 31Eta CMA ; 2.45; 20000;occ; 104; 0;44863
 6; -163.4; 29-SEP-2010 06:48:20; Dark ; 52.5; 23; 21Eps CMA ; 1.50; 26000;occ; 105; 0;44863
 7; -62.3; 29-SEP-2010 06:50:01; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44863
 8; 65.8; 29-SEP-2010 06:52:09; Dark ; 45.0; 161; Tau Pup ; 2.93; 4500;occ; 90; 0;44864
 9; 149.7; 29-SEP-2010 06:53:33; Dark ; 58.5; 2; Alp Car ;-0.74; 7000;occ; 117; 0;44864


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11; 893.8; 29-SEP-2010 07:05:57; Dark ; 49.0; 157; The1Eri ; 2.91; 9300;occ; 98; 0;44864
12; 1553.5; 29-SEP-2010 07:16:57; Dark ; 54.0; 52; 16Bet Cet ; 2.04; 4500;occ; 108; 0;44864
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3; 2681.0; 29-SEP-2010 07:35:44; Bright; 47.5; 53; 43Bet And ; 2.05; 3300;occ; 95; 0;44864
4; 2958.7; 29-SEP-2010 07:40:22; Bright; 39.5; 74; 11Bet Cas ; 2.27; 6600;occ; 79; 0;44864
5; 3043.1; 29-SEP-2010 07:41:46; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44864
6; 4594.0; 29-SEP-2010 08:07:37; Bright; 56.0; 17; 78Bet Gem ; 1.16; 4500;occ; 112; 0;44864
7; 5136.4; 29-SEP-2010 08:16:40; Dark ; 36.0; 8; 10Alp CMi ; 0.40; 6500;occ; 72; 0;44864
8; 5564.6; 29-SEP-2010 08:23:48; Dark ; 45.0; 132; 15Rho Pup ; 2.80; 6900;occ; 90; 0;44864
9; 5775.1; 29-SEP-2010 08:27:18; Dark ; 48.0; 88; 31Eta CMA ; 2.45; 20000;occ; 96; 0;44864
10; 5873.9; 29-SEP-2010 08:28:57; Dark ; 57.0; 23; 21Eps CMA ; 1.50; 26000;occ; 114; 0;44864
11; 5974.3; 29-SEP-2010 08:30:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44864
12; 6102.4; 29-SEP-2010 08:32:45; Dark ; 41.0; 161; Tau Pup ; 2.93; 4500;occ; 82; 0;44865
13; 6186.5; 29-SEP-2010 08:34:10; Dark ; 58.5; 2; Alp Car ; -0.74; 7000;occ; 117; 0;44865
14; 6300.5; 29-SEP-2010 08:36:04; Dark ; 41.0; 108; Alp Col ; 2.65; 15200;occ; 82; 0;44865
15; 6930.8; 29-SEP-2010 08:46:34; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;44865
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3; 2680.0; 29-SEP-2010 09:16:19; Bright; 49.5; 53; 43Bet And ; 2.05; 3300;occ; 99; 0;44865
4; 2958.6; 29-SEP-2010 09:20:58; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44865
5; 3042.6; 29-SEP-2010 09:22:22; Bright; 41.0; 76; 27Gam Cas ; 2.30; 30000;occ; 82; 0;44865
6; 4594.3; 29-SEP-2010 09:48:13; Bright; 57.0; 17; 78Bet Gem ; 1.16; 4500;occ; 114; 0;44865
7; 5137.3; 29-SEP-2010 09:57:16; Dark ; 36.0; 8; 10Alp CMi ; 0.40; 6500;occ; 72; 0;44865
8; 5565.3; 29-SEP-2010 10:04:24; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;44865
9; 5776.1; 29-SEP-2010 10:07:55; Dark ; 49.0; 88; 31Eta CMA ; 2.45; 20000;occ; 98; 0;44865
10; 5875.1; 29-SEP-2010 10:09:34; Dark ; 55.5; 23; 21Eps CMA ; 1.50; 26000;occ; 111; 0;44865
11; 5975.0; 29-SEP-2010 10:11:14; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44865
12; 6103.3; 29-SEP-2010 10:13:22; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;44866
13; 6187.3; 29-SEP-2010 10:14:46; Dark ; 45.0; 2; Alp Car ; -0.74; 7000;occ; 90; 0;44866
14; 6302.1; 29-SEP-2010 10:16:41; Dark ; 38.0; 108; Alp Col ; 2.65; 15200;occ; 76; 0;44866
15; 6931.6; 29-SEP-2010 10:27:11; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;44866
16; 7589.8; 29-SEP-2010 10:38:09; Dark ; 51.5; 52; 16Bet Cet ; 2.04; 4500;occ; 103; 0;44866
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2; 2443.0; 29-SEP-2010 10:52:58; Bright; 40.5; 58; 21Alp And ; 2.07; 11000;occ; 81; 0;44866
3; 2679.4; 29-SEP-2010 10:56:54; Bright; 52.0; 53; 43Bet And ; 2.05; 3300;occ; 104; 0;44866
4; 2958.2; 29-SEP-2010 11:01:33; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44866
5; 3042.2; 29-SEP-2010 11:02:57; Bright; 40.5; 76; 27Gam Cas ; 2.30; 30000;occ; 81; 0;44866
6; 4594.5; 29-SEP-2010 11:28:49; Bright; 74.0; 17; 78Bet Gem ; 1.16; 4500;occ; 148; 0;44866
7; 5138.3; 29-SEP-2010 11:37:53; Dark ; 28.0; 8; 10Alp CMi ; 0.40; 6500;occ; 56; 0;44866
8; 5566.0; 29-SEP-2010 11:45:01; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;44866
9; 5777.1; 29-SEP-2010 11:48:32; Dark ; 48.0; 88; 31Eta CMA ; 2.45; 20000;occ; 96; 0;44866
10; 5876.1; 29-SEP-2010 11:50:11; Dark ; 59.0; 23; 21Eps CMA ; 1.50; 26000;occ; 118; 0;44866
11; 5975.7; 29-SEP-2010 11:51:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44866
12; 6103.8; 29-SEP-2010 11:53:59; Dark ; 42.0; 161; Tau Pup ; 2.93; 4500;occ; 84; 0;44867
13; 6188.0; 29-SEP-2010 11:55:23; Dark ; 45.0; 2; Alp Car ; -0.74; 7000;occ; 90; 0;44867
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4; 2678.7; 29-SEP-2010 12:37:29; Bright; 52.5; 53; 43Bet And ; 2.05; 3300;occ; 105; 0;44867
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6; 3041.8; 29-SEP-2010 12:43:33; Bright; 40.0; 76; 27Gam Cas ; 2.30; 30000;occ; 80; 0;44867
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8; 5139.2; 29-SEP-2010 13:18:30; Dark ; 28.0; 8; 10Alp CMi ; 0.40; 6500;occ; 56; 0;44867
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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
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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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3; 906.2; 30-SEP-2010 09:55:44; Dark ; 50.0; 157; The1Eri ; 2.91; 9300;occ; 100; 0;44880
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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
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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
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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
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5; 2953.3; 30-SEP-2010 17:12:15; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;44884
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7; 4511.5; 30-SEP-2010 17:38:13; Bright; 53.0; 24; 66Alp Gem ; 1.58; 10200;occ; 106; 0;44884
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