

GOMOS Daily Report 09-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	11SEP2010 04:33:45
Data source version	GOMOS/5.01
Start time of products	09SEP2010 00:06:41
Stop time of products	09SEP2010 23:38:11
Store outputs in DB	Yes
Nb of level 1b prods	66
Nb of prods with errors	0

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

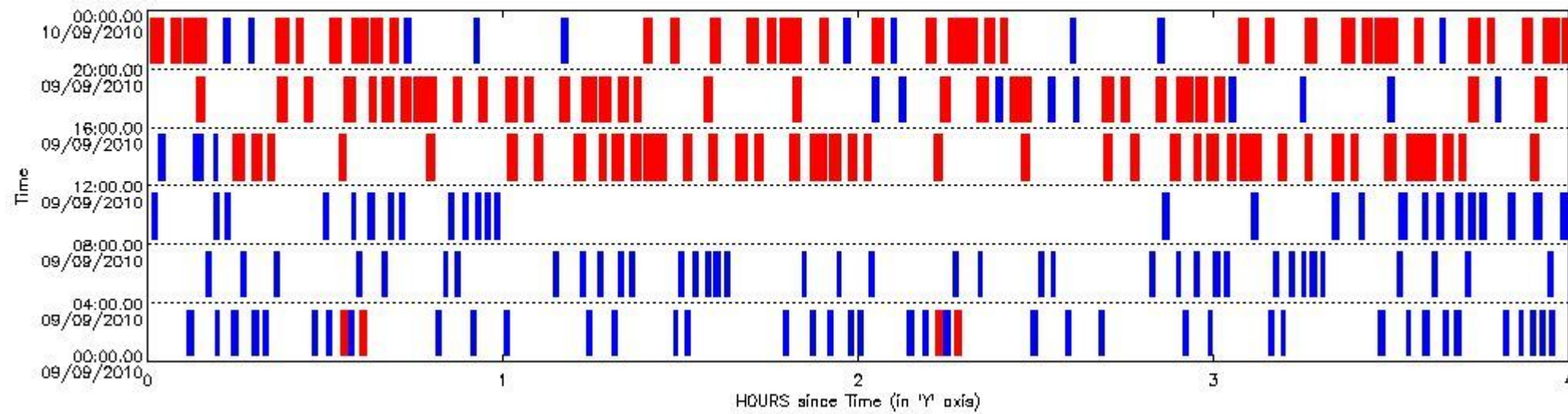
2.1 Level 0 products arrived in PCF (see template [here](#))

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
09-SEP-2010 00:32:27	1ZetCMa	177	44573
09-SEP-2010 00:35:40	AlpCol	108	44573
09-SEP-2010 02:13:04	1ZetCMa	177	44574
09-SEP-2010 02:16:17	AlpCol	108	44574
09-SEP-2010 12:14:24	44IotOri	125	44580
09-SEP-2010 12:17:37	11AlpLep	101	44580
09-SEP-2010 12:20:19	DSA1062	0	44580
09-SEP-2010 12:32:11	The1Eri	157	44581
09-SEP-2010 12:46:59	16BetCet	52	44581
09-SEP-2010 13:00:48	88GamPeg	140	44581
09-SEP-2010 13:05:21	21AlpAnd	58	44581
09-SEP-2010 13:12:00	43BetAnd	53	44581
09-SEP-2010 13:16:06	37DelCas	110	44581
09-SEP-2010 13:18:16	57Gam1And	73	44581
09-SEP-2010 13:21:39	23GamPer	160	44581

09-SEP-2010 13:23:45	33AlpPer	35	44581
09-SEP-2010 13:25:39	39DelPer	175	44581
09-SEP-2010 13:30:24	13AlpAur	6	44581
09-SEP-2010 13:34:44	37TheAur	107	44581
09-SEP-2010 13:39:16	12BetTau	28	44581
09-SEP-2010 13:42:33	24GamGem	44	44581
09-SEP-2010 13:48:18	58AlpOri	14	44581
09-SEP-2010 13:51:55	24GamOri	27	44581
09-SEP-2010 13:55:02	44IotOri	125	44581
09-SEP-2010 13:58:14	11AlpLep	101	44581
09-SEP-2010 14:00:56	DSA1062	0	44581
09-SEP-2010 14:12:48	The1Eri	157	44582
09-SEP-2010 14:27:35	16BetCet	52	44582
09-SEP-2010 14:41:23	88GamPeg	140	44582
09-SEP-2010 14:45:56	21AlpAnd	58	44582
09-SEP-2010 14:52:34	43BetAnd	53	44582
09-SEP-2010 14:56:41	37DelCas	110	44582
09-SEP-2010 14:58:50	57Gam1And	73	44582
09-SEP-2010 15:02:14	23GamPer	160	44582
09-SEP-2010 15:04:20	33AlpPer	35	44582
09-SEP-2010 15:06:14	39DelPer	175	44582
09-SEP-2010 15:10:59	13AlpAur	6	44582
09-SEP-2010 15:15:20	37TheAur	107	44582
09-SEP-2010 15:19:53	12BetTau	28	44582
09-SEP-2010 15:23:09	24GamGem	44	44582
09-SEP-2010 15:28:55	58AlpOri	14	44582
09-SEP-2010 15:32:34	24GamOri	27	44582
09-SEP-2010 15:35:40	44IotOri	125	44582
09-SEP-2010 15:38:52	11AlpLep	101	44582
09-SEP-2010 15:41:34	DSA1062	0	44582
09-SEP-2010 15:53:25	The1Eri	157	44583
09-SEP-2010 16:08:11	16BetCet	52	44583
09-SEP-2010 16:21:58	88GamPeg	140	44583
09-SEP-2010 16:26:31	21AlpAnd	58	44583
09-SEP-2010 16:33:09	43BetAnd	53	44583
09-SEP-2010 16:37:18	37DelCas	110	44583
09-SEP-2010 16:39:24	57Gam1And	73	44583
09-SEP-2010 16:42:49	23GamPer	160	44583
09-SEP-2010 16:44:55	33AlpPer	35	44583
09-SEP-2010 16:46:49	39DelPer	175	44583
09-SEP-2010 16:51:35	13AlpAur	6	44583
09-SEP-2010 16:55:56	37TheAur	107	44583
09-SEP-2010 17:00:29	12BetTau	28	44583
09-SEP-2010 17:03:46	24GamGem	44	44583
09-SEP-2010 17:09:32	58AlpOri	14	44583
09-SEP-2010 17:13:12	24GamOri	27	44583
09-SEP-2010 17:16:17	44IotOri	125	44583
09-SEP-2010 17:19:29	11AlpLep	101	44583
09-SEP-2010 17:22:11	DSA1062	0	44583
09-SEP-2010 17:34:02	The1Eri	157	44584
09-SEP-2010 17:48:47	16BetCet	52	44584
09-SEP-2010 18:13:43	43BetAnd	53	44584
09-SEP-2010 18:19:58	57Gam1And	73	44584
09-SEP-2010 18:25:30	33AlpPer	35	44584
09-SEP-2010 18:27:24	39DelPer	175	44584
09-SEP-2010 18:41:06	12BetTau	28	44584
09-SEP-2010 18:44:22	24GamGem	44	44584
09-SEP-2010 18:50:09	58AlpOri	14	44584
09-SEP-2010 18:53:50	24GamOri	27	44584

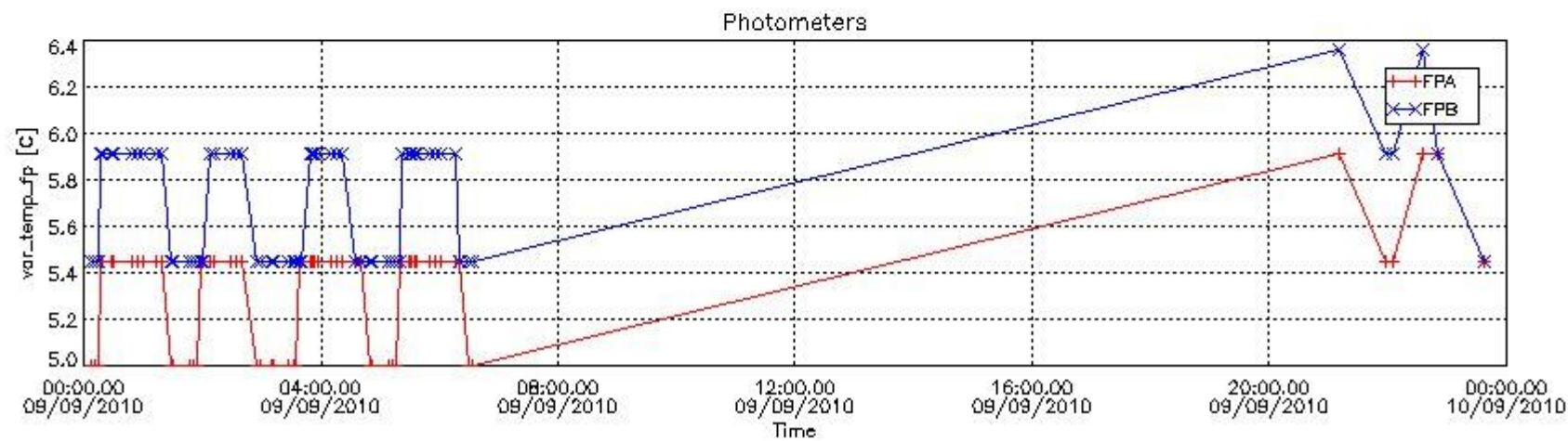
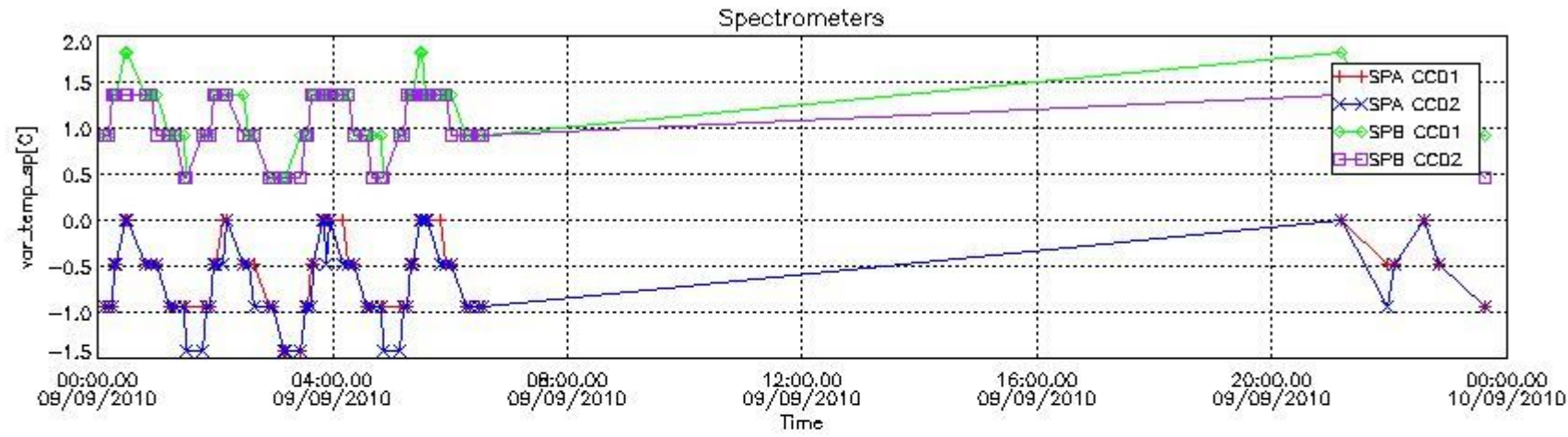
09-SEP-2010 18:56:55	44IotOri	125	44584
09-SEP-2010 19:00:07	11AlpLep	101	44584
09-SEP-2010 19:43:08	88GamPeg	140	44585
09-SEP-2010 19:54:17	43BetAnd	53	44585
09-SEP-2010 20:00:32	57Gam1And	73	44585
09-SEP-2010 20:03:58	23GamPer	160	44585
09-SEP-2010 20:06:05	33AlpPer	35	44585
09-SEP-2010 20:07:59	39DelPer	175	44585
09-SEP-2010 20:21:42	12BetTau	28	44585
09-SEP-2010 20:24:59	24GamGem	44	44585
09-SEP-2010 20:30:46	58AlpOri	14	44585
09-SEP-2010 20:34:29	24GamOri	27	44585
09-SEP-2010 20:37:33	44IotOri	125	44585
09-SEP-2010 20:40:45	11AlpLep	101	44585
09-SEP-2010 21:23:43	88GamPeg	140	44586
09-SEP-2010 21:28:16	21AlpAnd	58	44586
09-SEP-2010 21:34:51	43BetAnd	53	44586
09-SEP-2010 21:41:07	57Gam1And	73	44586
09-SEP-2010 21:44:33	23GamPer	160	44586
09-SEP-2010 21:46:39	33AlpPer	35	44586
09-SEP-2010 21:48:34	39DelPer	175	44586
09-SEP-2010 21:53:21	13AlpAur	6	44586
09-SEP-2010 22:02:18	12BetTau	28	44586
09-SEP-2010 22:11:24	58AlpOri	14	44586
09-SEP-2010 22:15:07	24GamOri	27	44586
09-SEP-2010 22:18:11	44IotOri	125	44586
09-SEP-2010 22:21:22	11AlpLep	101	44586
09-SEP-2010 22:24:03	DSA1062	0	44586
09-SEP-2010 23:04:18	88GamPeg	140	44587
09-SEP-2010 23:08:51	21AlpAnd	58	44587
09-SEP-2010 23:15:26	43BetAnd	53	44587
09-SEP-2010 23:21:41	57Gam1And	73	44587
09-SEP-2010 23:25:08	23GamPer	160	44587
09-SEP-2010 23:27:14	33AlpPer	35	44587
09-SEP-2010 23:29:09	39DelPer	175	44587
09-SEP-2010 23:33:57	13AlpAur	6	44587
09-SEP-2010 23:42:55	12BetTau	28	44587
09-SEP-2010 23:46:12	24GamGem	44	44587
09-SEP-2010 23:52:01	58AlpOri	14	44587
09-SEP-2010 23:55:46	24GamOri	27	44587
09-SEP-2010 23:58:49	44IotOri	125	44587

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_1PNPDE20100909_000641_000000522092_00431_44573_1994.N1	09-SEP-2010 00:06:41	Bright	51.500	42	34Bet Aur	1.9000	10200.	103	44573	No
2	GOM_TRA_1PNPDE20100909_001118_000000412092_00431_44573_1995.N1	09-SEP-2010 00:11:18	Bright	41.000	24	66Alp Gem	1.5800	10200.	82	44573	No
3	GOM_TRA_1PNPDE20100909_001412_000000552092_00431_44573_1996.N1	09-SEP-2010 00:14:12	Twilight	55.000	170	27Eps Gem	3.0000	9700.0	110	44573	No
4	GOM_TRA_1PNPDE20100909_001733_000000582092_00431_44573_1997.N1	09-SEP-2010 00:17:33	Twilight	58.000	44	24Gam Gem	1.9280	11000.	116	44573	No
5	GOM_TRA_1PNPDE20100909_001925_000000502092_00431_44573_1998.N1	09-SEP-2010 00:19:25	Twilight	49.500	8	10Alp CMi	0.40000	6500.0	99	44573	No
6	GOM_TRA_1PNPDE20100909_002744_000000562092_00431_44573_2007.N1	09-SEP-2010 00:27:44	Dark	55.500	1	9Alp CMa	-1.4400	11000.	111	44573	No
7	GOM_TRA_1PNPDE20100909_003015_000000472092_00431_44573_2008.N1	09-SEP-2010 00:30:15	Dark	47.000	23	21Eps CMa	1.5020	26000.	94	44573	No
8	GOM_TRA_1PNPDE20100909_004836_000000512092_00432_44574_2009.N1	09-SEP-2010 00:48:36	Dark	51.000	9	Alp Eri	0.45300	24000.	102	44574	No
9	GOM_TRA_1PNPDE20100909_005428_000000492092_00432_44574_2010.N1	09-SEP-2010 00:54:28	Straylight	48.500	84	Alp Phe	2.3970	4500.0	97	44574	No
10	GOM_TRA_1PNPDE20100909_010004_000000482092_00432_44574_2011.N1	09-SEP-2010 01:00:04	Straylight	48.000	18	24Alp PsA	1.1660	9700.0	96	44574	No
11	GOM_TRA_1PNPDE20100909_011410_000000452092_00432_44574_2012.N1	09-SEP-2010 01:14:10	Bright	45.000	90	54Alp Peg	2.4870	11000.	90	44574	No
12	GOM_TRA_1PNPDE20100909_011824_000000422092_00432_44574_2013.N1	09-SEP-2010 01:18:24	Bright	41.500	164	44Eta Peg	2.9480	5400.0	83	44574	No
13	GOM_TRA_1PNPDE20100909_012844_000000392092_00432_44574_2014.N1	09-SEP-2010 01:28:44	Bright	38.500	74	11Bet Cas	2.2680	6600.0	77	44574	No

14	GOM_TRA_1PNPDE20100909_013043_000000452092_00432_44574_2015.N1	09-SEP-2010 01:30:43	Bright	45.000	76	27Gam Cas	2.3000	30000.	90	44574	No
15	GOM_TRA_1PNPDE20100909_014717_000000502092_00432_44574_2016.N1	09-SEP-2010 01:47:17	Bright	49.500	42	34Bet Aur	1.9000	10200.	99	44574	No
16	GOM_TRA_1PNPDE20100909_015154_000000412092_00432_44574_2017.N1	09-SEP-2010 01:51:54	Bright	41.000	24	66Alp Gem	1.5800	10200.	82	44574	No
17	GOM_TRA_1PNPDE20100909_015448_000000552092_00432_44574_2018.N1	09-SEP-2010 01:54:48	Twi_and_stray	54.500	170	27Eps Gem	3.0000	9700.0	109	44574	No
18	GOM_TRA_1PNPDE20100909_015810_000000552092_00432_44574_2019.N1	09-SEP-2010 01:58:10	Twi_and_stray	55.000	44	24Gam Gem	1.9280	11000.	110	44574	No
19	GOM_TRA_1PNPDE20100909_020001_000000492092_00432_44574_2020.N1	09-SEP-2010 02:00:01	Twilight	48.500	8	10Alp CMi	0.40000	6500.0	97	44574	No
20	GOM_TRA_1PNPDE20100909_020820_000000572092_00432_44574_2031.N1	09-SEP-2010 02:08:20	Dark	57.000	1	9Alp CMa	-1.4400	11000.	114	44574	No
21	GOM_TRA_1PNPDE20100909_021052_000000482092_00432_44574_2032.N1	09-SEP-2010 02:10:52	Dark	47.500	23	21Eps CMa	1.5020	26000.	95	44574	No
22	GOM_TRA_1PNPDE20100909_022912_000000532092_00433_44575_2033.N1	09-SEP-2010 02:29:12	Dark	53.000	9	Alp Eri	0.45300	24000.	106	44575	No
23	GOM_TRA_1PNPDE20100909_023504_000000492092_00433_44575_2034.N1	09-SEP-2010 02:35:04	Straylight	49.000	84	Alp Phe	2.3970	4500.0	98	44575	No
24	GOM_TRA_1PNPDE20100909_024040_000000462092_00433_44575_2035.N1	09-SEP-2010 02:40:40	Straylight	45.500	18	24Alp PsA	1.1660	9700.0	91	44575	No
25	GOM_TRA_1PNPDE20100909_025446_000000442092_00433_44575_2036.N1	09-SEP-2010 02:54:46	Bright	44.000	90	54Alp Peg	2.4870	11000.	88	44575	No
26	GOM_TRA_1PNPDE20100909_025900_000000432092_00433_44575_2037.N1	09-SEP-2010 02:59:00	Bright	42.500	164	44Eta Peg	2.9480	5400.0	85	44575	No
27	GOM_TRA_1PNPDE20100909_030920_000000442092_00433_44575_2038.N1	09-SEP-2010 03:09:20	Bright	43.500	74	11Bet Cas	2.2680	6600.0	87	44575	No
28	GOM_TRA_1PNPDE20100909_031118_000000402092_00433_44575_2039.N1	09-SEP-2010 03:11:18	Bright	40.000	76	27Gam Cas	2.3000	30000.	80	44575	No
29	GOM_TRA_1PNPDE20100909_032753_000000512092_00433_44575_2058.N1	09-SEP-2010 03:27:53	Bright	50.500	42	34Bet Aur	1.9000	10200.	101	44575	No
30	GOM_TRA_1PNPDE20100909_033230_000000412092_00433_44575_2059.N1	09-SEP-2010 03:32:30	Bright	41.000	24	66Alp Gem	1.5800	10200.	82	44575	No
31	GOM_TRA_1PNPDE20100909_033524_000000572092_00433_44575_2060.N1	09-SEP-2010 03:35:24	Twi_and_stray	56.500	170	27Eps Gem	3.0000	9700.0	113	44575	No
32	GOM_TRA_1PNPDE20100909_033846_000000552092_00433_44575_2061.N1	09-SEP-2010 03:38:46	Twi_and_stray	55.000	44	24Gam Gem	1.9280	11000.	110	44575	No
33	GOM_TRA_1PNPDE20100909_034037_000000582092_00433_44575_2062.N1	09-SEP-2010 03:40:37	Twilight	58.000	8	10Alp CMi	0.40000	6500.0	116	44575	No
34	GOM_TRA_1PNPDE20100909_034857_000000542092_00433_44575_2063.N1	09-SEP-2010 03:48:57	Dark	54.000	1	9Alp CMa	-1.4400	11000.	108	44575	No
35	GOM_TRA_1PNPDE20100909_035128_000000462092_00433_44575_2064.N1	09-SEP-2010 03:51:28	Dark	46.000	23	21Eps CMa	1.5020	26000.	92	44575	No
36	GOM_TRA_1PNPDE20100909_035332_000000462092_00433_44575_2065.N1	09-SEP-2010 03:53:32	Dark	45.500	177	1Zet CMa	3.0220	26000.	91	44575	No
37	GOM_TRA_1PNPDE20100909_035646_000000492092_00433_44575_2066.N1	09-SEP-2010 03:56:46	Dark	48.500	108	Alp Col	2.6520	15200.	97	44575	No
38	GOM_TRA_1PNPDE20100909_040949_000000472092_00434_44576_2067.N1	09-SEP-2010 04:09:49	Dark	46.500	9	Alp Eri	0.45300	24000.	93	44576	No
39	GOM_TRA_1PNPDE20100909_041541_000000462092_00434_44576_2068.N1	09-SEP-2010 04:15:41	Straylight	45.500	84	Alp Phe	2.3970	4500.0	91	44576	No
40	GOM_TRA_1PNPDE20100909_042117_000000472092_00434_44576_2069.N1	09-SEP-2010 04:21:17	Straylight	46.500	18	24Alp PsA	1.1660	9700.0	93	44576	No
41	GOM_TRA_1PNPDE20100909_043522_000000432092_00434_44576_2070.N1	09-SEP-2010 04:35:22	Bright	42.500	90	54Alp Peg	2.4870	11000.	85	44576	No
42	GOM_TRA_1PNPDE20100909_043935_000000402092_00434_44576_2071.N1	09-SEP-2010 04:39:35	Bright	40.000	164	44Eta Peg	2.9480	5400.0	80	44576	No
43	GOM_TRA_1PNPDE20100909_044955_000000412092_00434_44576_2072.N1	09-SEP-2010 04:49:55	Bright	41.000	74	11Bet Cas	2.2680	6600.0	82	44576	No
44	GOM_TRA_1PNPDE20100909_045154_000000452092_00434_44576_2073.N1	09-SEP-2010 04:51:54	Bright	44.500	76	27Gam Cas	2.3000	30000.	89	44576	No
45	GOM_TRA_1PNPDE20100909_050829_000000522092_00434_44576_2081.N1	09-SEP-2010 05:08:29	Bright	52.000	42	34Bet Aur	1.9000	10200.	104	44576	No
46	GOM_TRA_1PNPDE20100909_051306_000000412092_00434_44576_2082.N1	09-SEP-2010 05:13:06	Bright	41.000	24	66Alp Gem	1.5800	10200.	82	44576	No
47	GOM_TRA_1PNPDE20100909_051600_000000522092_00434_44576_2083.N1	09-SEP-2010 05:16:00	Twi_and_stray	51.500	170	27Eps Gem	3.0000	9700.0	103	44576	No
48	GOM_TRA_1PNPDE20100909_051922_000000572092_00434_44576_2084.N1	09-SEP-2010 05:19:22	Twi_and_stray	56.500	44	24Gam Gem	1.9280	11000.	113	44576	No
49	GOM_TRA_1PNPDE20100909_052114_000000562092_00434_44576_2085.N1	09-SEP-2010 05:21:14	Twilight	55.500	8	10Alp CMi	0.40000	6500.0	111	44576	No
50	GOM_TRA_1PNPDE20100909_052934_000000612092_00434_44576_2086.N1	09-SEP-2010 05:29:34	Dark	60.500	1	9Alp CMa	-1.4400	11000.	121	44576	No
51	GOM_TRA_1PNPDE20100909_053205_000000462092_00434_44576_2087.N1	09-SEP-2010 05:32:05	Dark	46.000	23	21Eps CMa	1.5020	26000.	92	44576	No
52	GOM_TRA_1PNPDE20100909_053409_000000442092_00434_44576_2088.N1	09-SEP-2010 05:34:09	Dark	44.000	177	1Zet CMa	3.0220	26000.	88	44576	No
53	GOM_TRA_1PNPDE20100909_053723_000000482092_00434_44576_2089.N1	09-SEP-2010 05:37:23	Dark	47.500	108	Alp Col	2.6520	15200.	95	44576	No
54	GOM_TRA_1PNPDE20100909_055026_000000452092_00435_44577_2090.N1	09-SEP-2010 05:50:26	Dark	45.000	9	Alp Eri	0.45300	24000.	90	44577	No
55	GOM_TRA_1PNPDE20100909_055617_000000442092_00435_44577_2091.N1	09-SEP-2010 05:56:17	Straylight	43.500	84	Alp Phe	2.3970	4500.0	87	44577	No
56	GOM_TRA_1PNPDE20100909_060153_000000462092_00435_44577_2092.N1	09-SEP-2010 06:01:53	Straylight	45.500	18	24Alp PsA	1.1660	9700.0	91	44577	No
57	GOM_TRA_1PNPDE20100909_061557_000000432092_00435_44577_2093.N1	09-SEP-2010 06:15:57	Bright	43.000	90	54Alp Peg	2.4870	11000.	86	44577	No
58	GOM_TRA_1PNPDE20100909_062011_000000422092_00435_44577_2094.N1	09-SEP-2010 06:20:11	Bright	41.500	164	44Eta Peg	2.9480	5400.0	83	44577	No
59	GOM_TRA_1PNPDE20100909_063031_000000442092_00435_44577_2095.N1	09-SEP-2010 06:30:31	Bright	44.000	74	11Bet Cas	2.2680	6600.0	88	44577	No
60	GOM_TRA_1PNPDE20100909_063229_000000442092_00435_44577_2096.N1	09-SEP-2010 06:32:29	Bright	44.000	76	27Gam Cas	2.3000	30000.	88	44577	No
61	GOM_TRA_1PNPDE20100909_210951_000000692092_00444_44586_2198.N1	09-SEP-2010 21:09:51	Twi_and_stray	68.500	52	16Bet Cet	2.0370	4500.0	137	44586	No
62	GOM_TRA_1PNPDE20100909_215736_000000572092_00444_44586_2199.N1	09-SEP-2010 21:57:36	Bright	57.000	107	37The Aur	2.6490	11000.	114	44586	No
63	GOM_TRA_1PNPDE20100909_220527_000000582092_00444_44586_2200.N1	09-SEP-2010 22:05:27	Twi_and_stray	57.500	44	24Gam Gem	1.9280	11000.	115	44586	No
64	GOM_TRA_1PNPDE20100909_223545_000000562092_00445_44587_2225.N1	09-SEP-2010 22:35:45	Dark	55.500	157	The1Eri	2.9060	9300.0	111	44587	No
65	GOM_TRA_1PNPDE20100909_225027_000000692092_00445_44587_2226.N1	09-SEP-2010 22:50:27	Twi_and_stray	69.000	52	16Bet Cet	2.0370	4500.0	138	44587	No
66	GOM_TRA_1PNPDE20100909_233811_000000552092_00445_44587_2227.N1	09-SEP-2010 23:38:11	Bright	55.000	107	37The Aur	2.6490	11000.	110	44587	No

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



4. Overview of dark signal processing per product

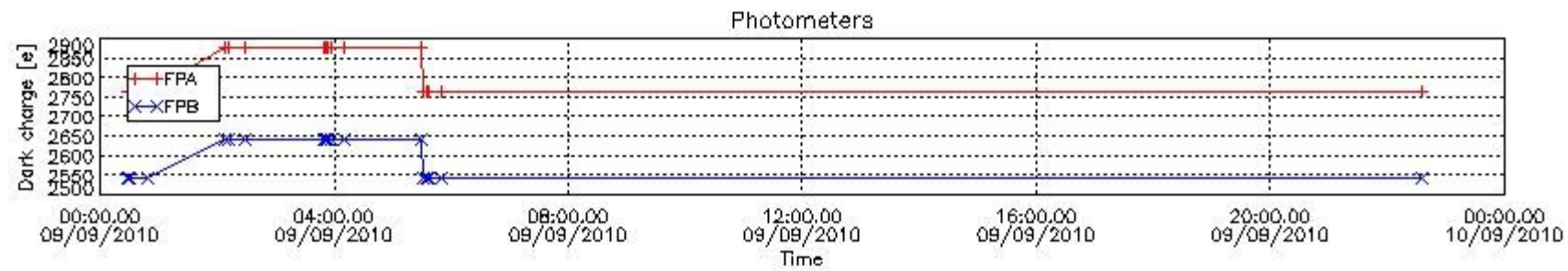
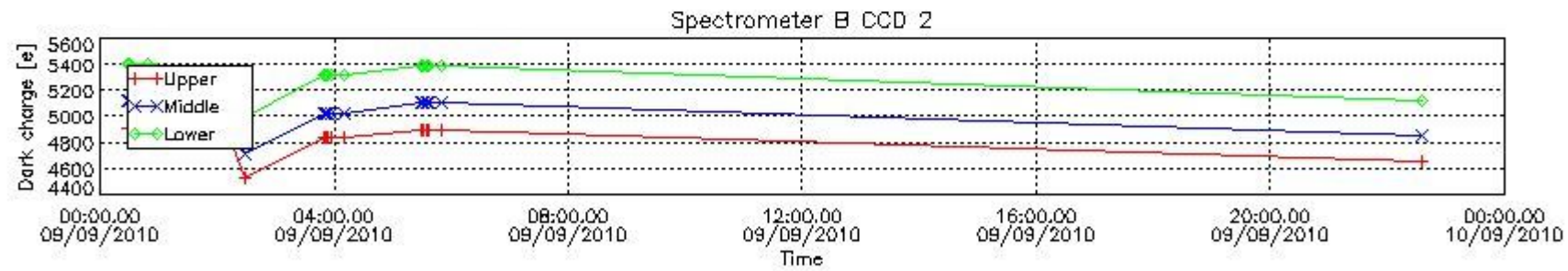
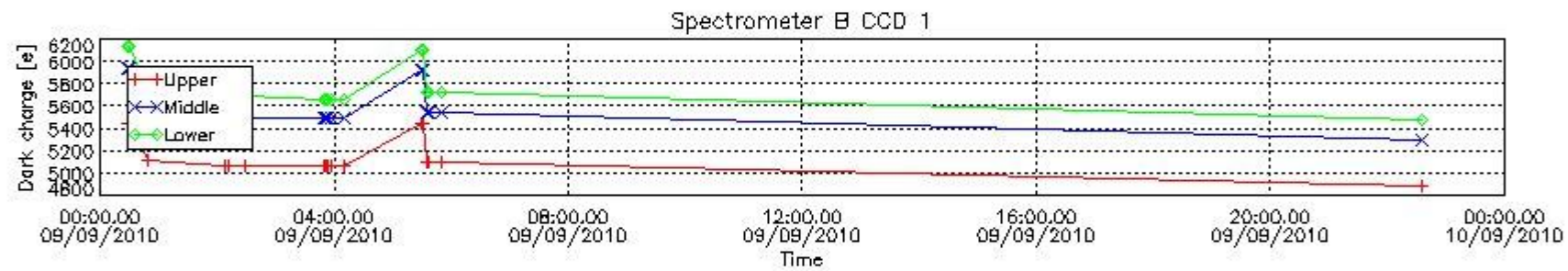
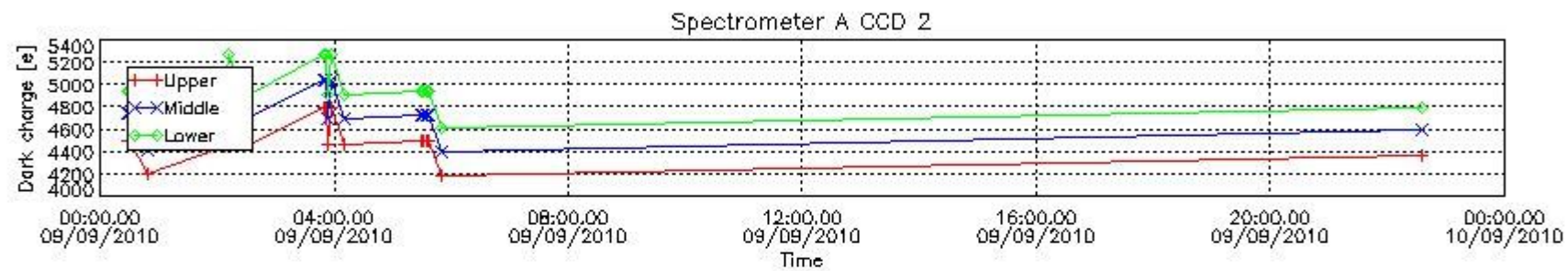
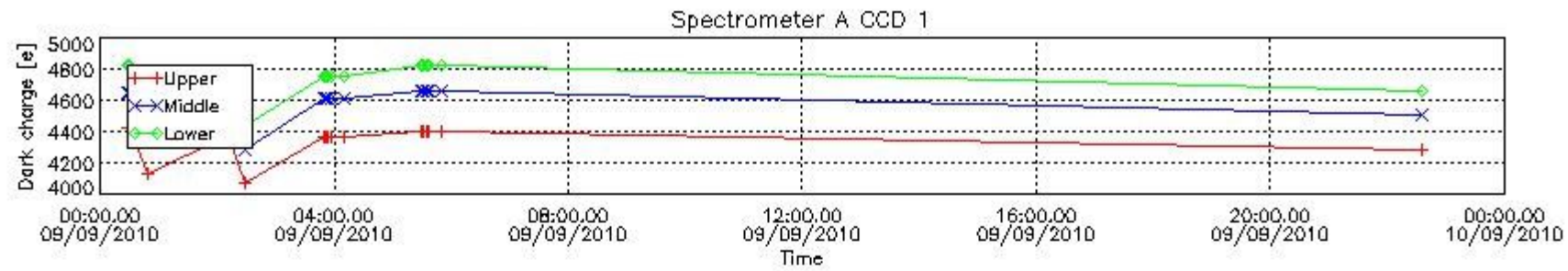
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20100909_210951_000000692092_00444_44586_2198.N1	DC map used
GOM_TRA_1PNPDE20100909_215736_000000572092_00444_44586_2199.N1	DC map used
GOM_TRA_1PNPDE20100909_220527_000000582092_00444_44586_2200.N1	DC map used
GOM_TRA_1PNPDE20100909_223545_000000562092_00445_44587_2225.N1	DC map used
GOM_TRA_1PNPDE20100909_225027_000000692092_00445_44587_2226.N1	DC map used
GOM_TRA_1PNPDE20100909_233811_000000552092_00445_44587_2227.N1	DC map used

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



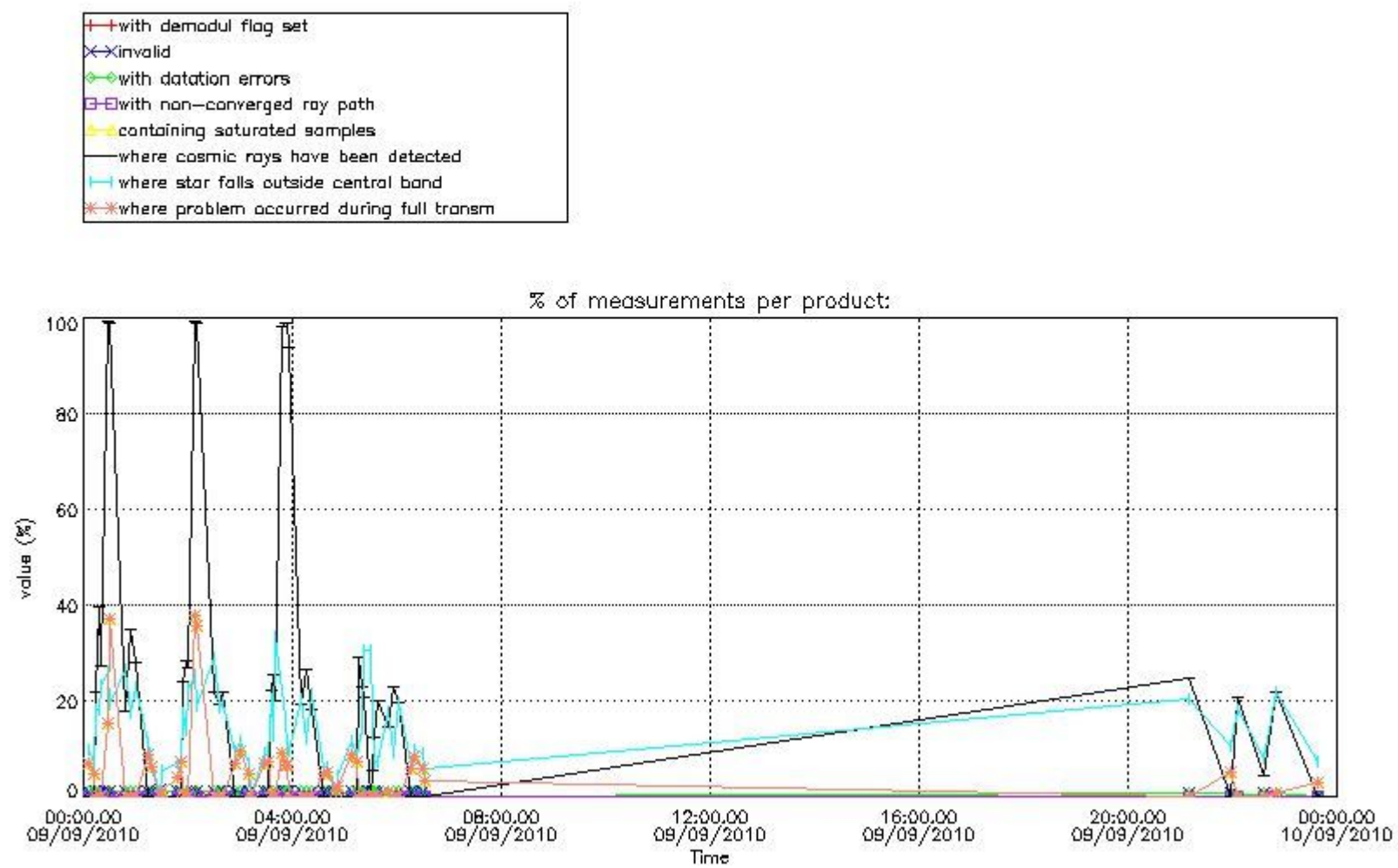
5. Demodulation flag and quality information monitoring

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.

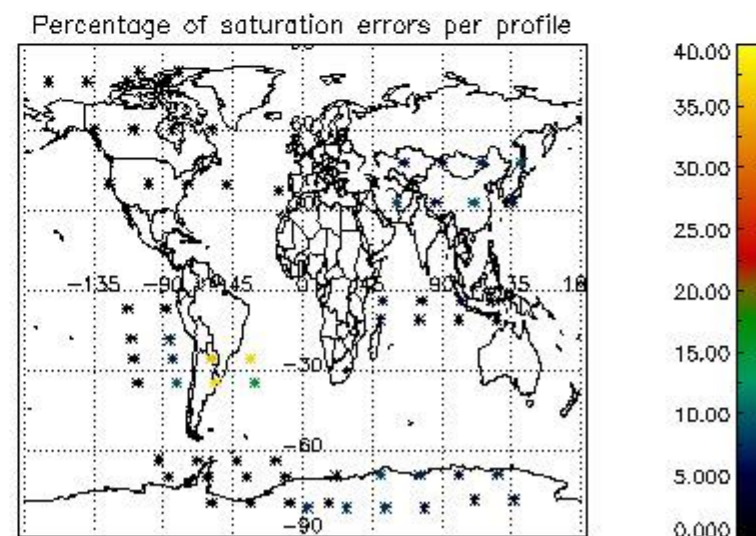
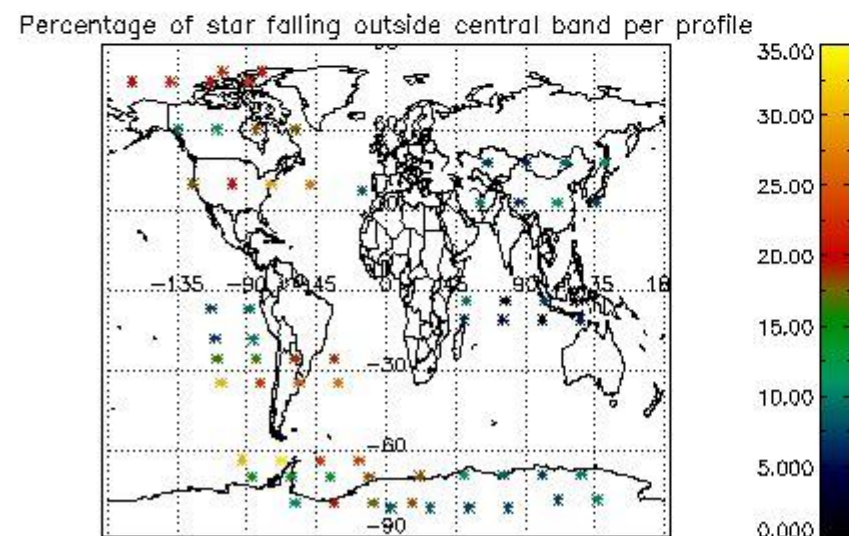
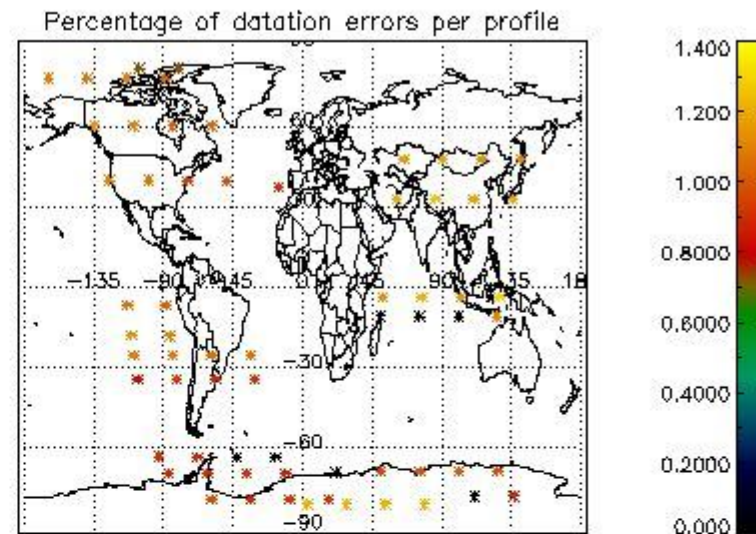
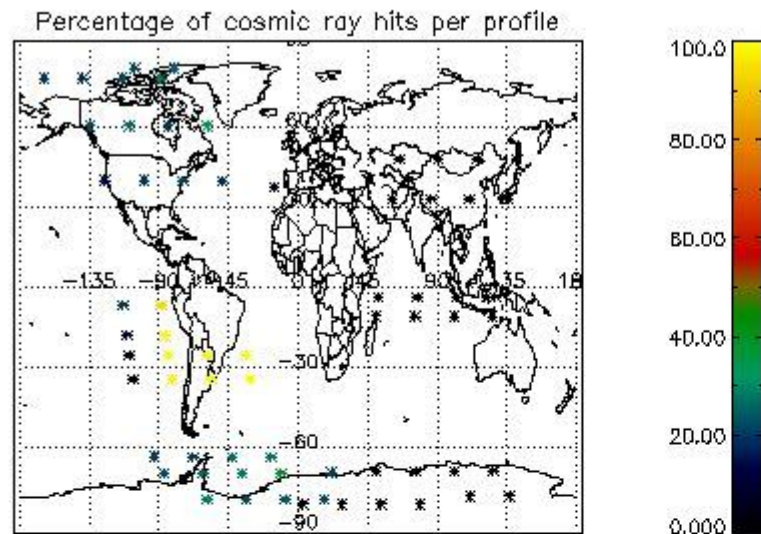
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	48.4848 %
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)



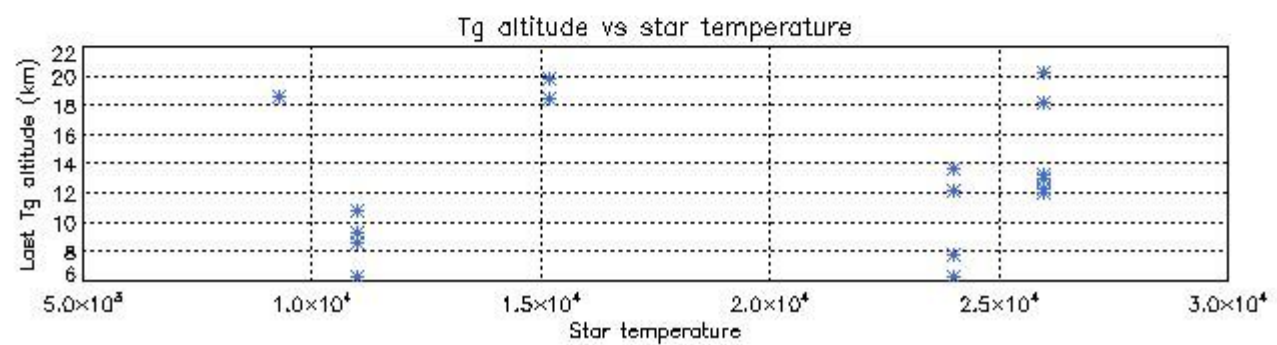
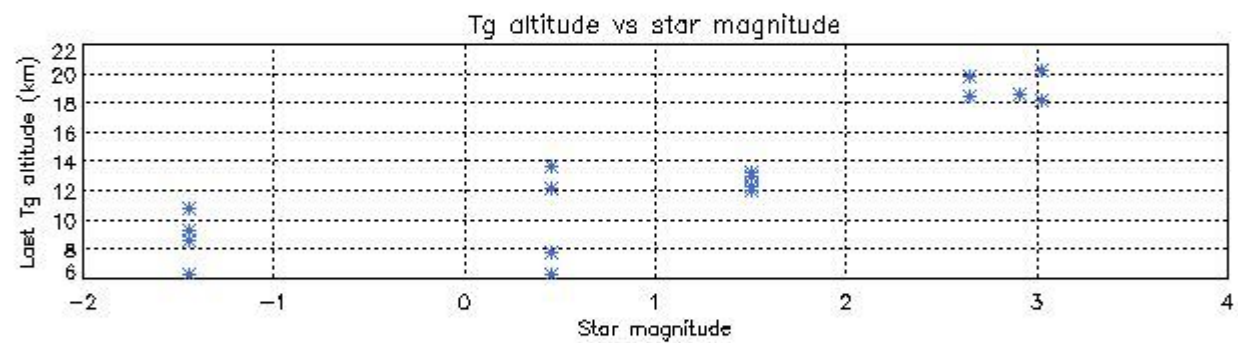
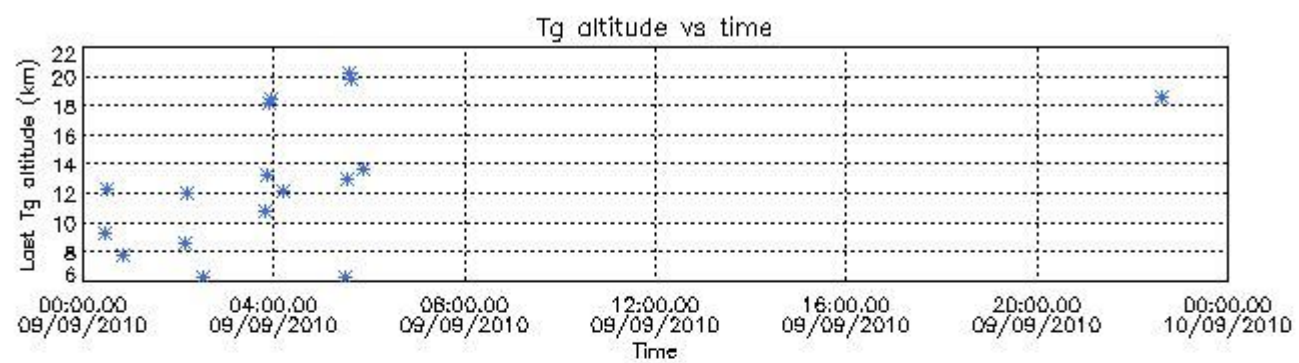
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.966	20.526	7.4887
St. deviation:	4.6303	3.4816	3.1042
Maximum:	20.191	31.605	10.398
Minimum:	6.2288	16.950	4.1032
Number of data:	17.000	26.000	4.0000

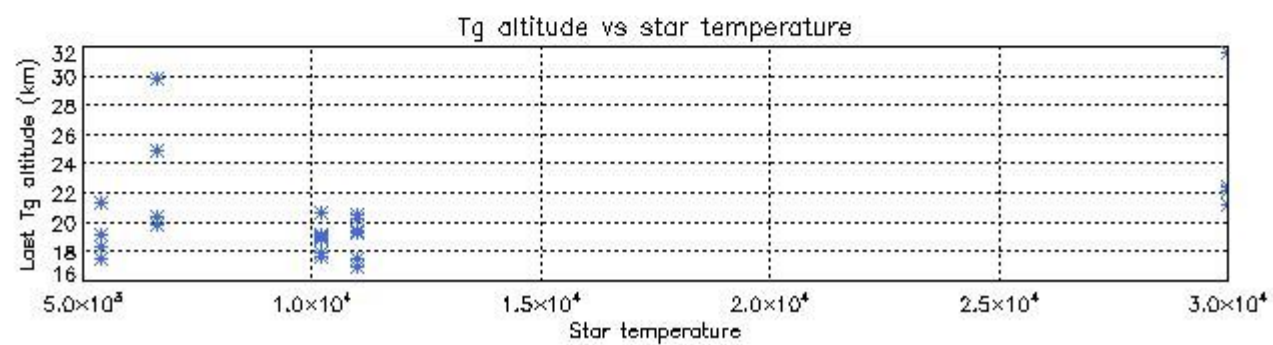
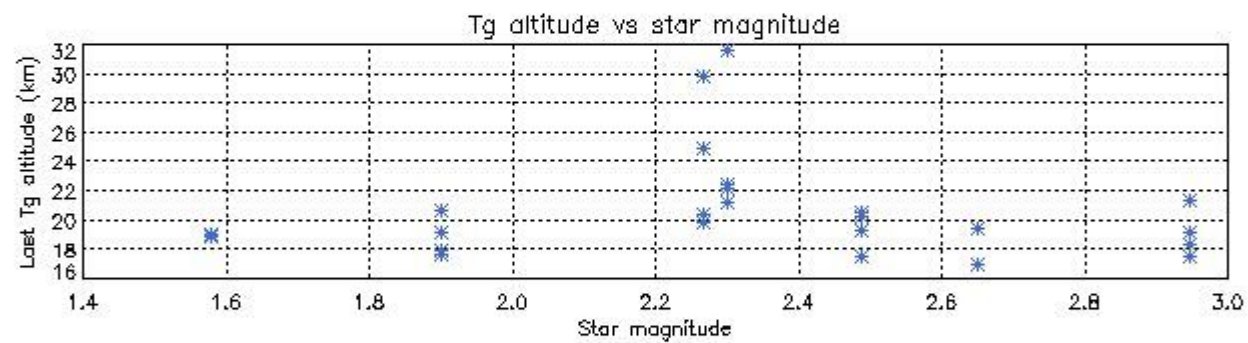
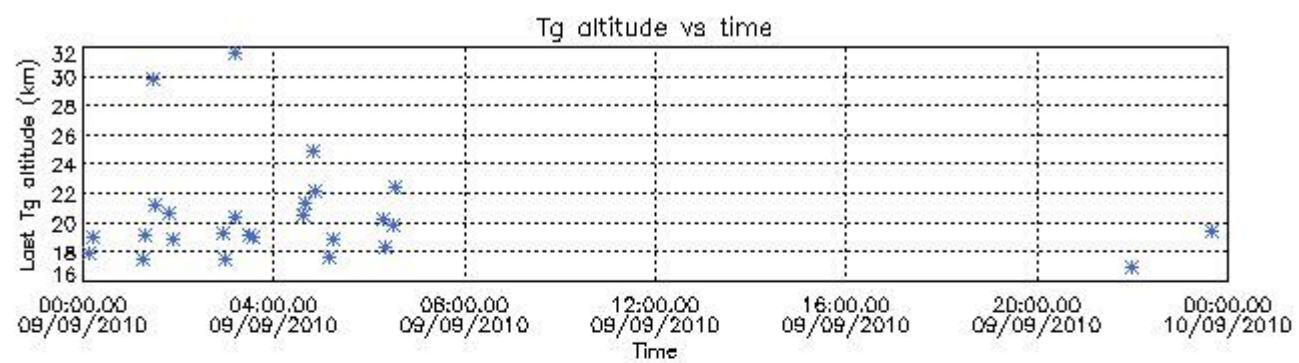
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



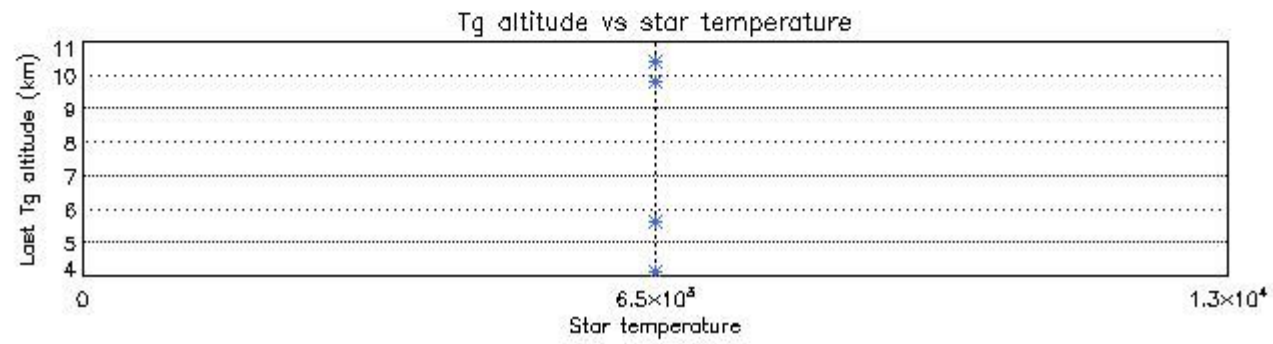
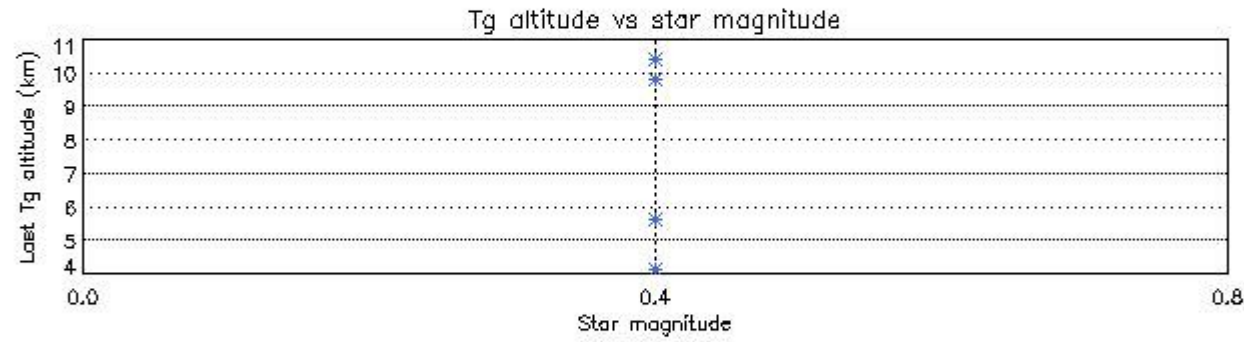
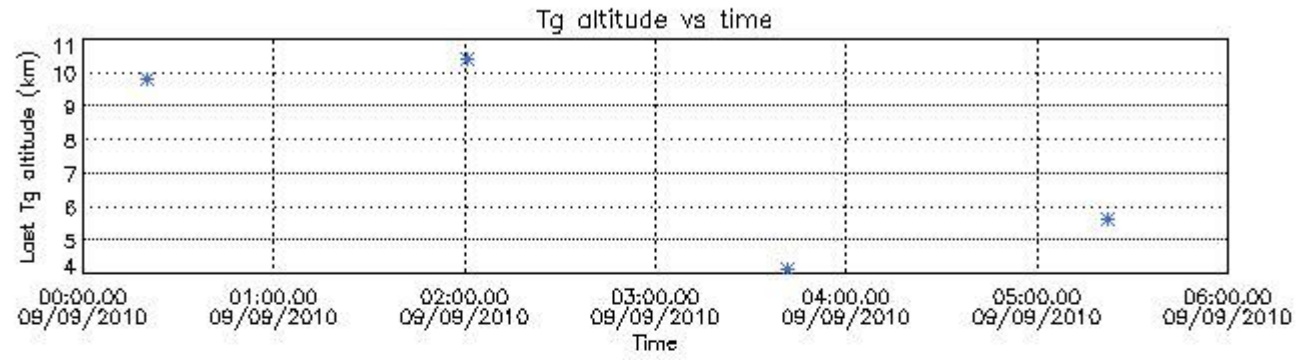
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

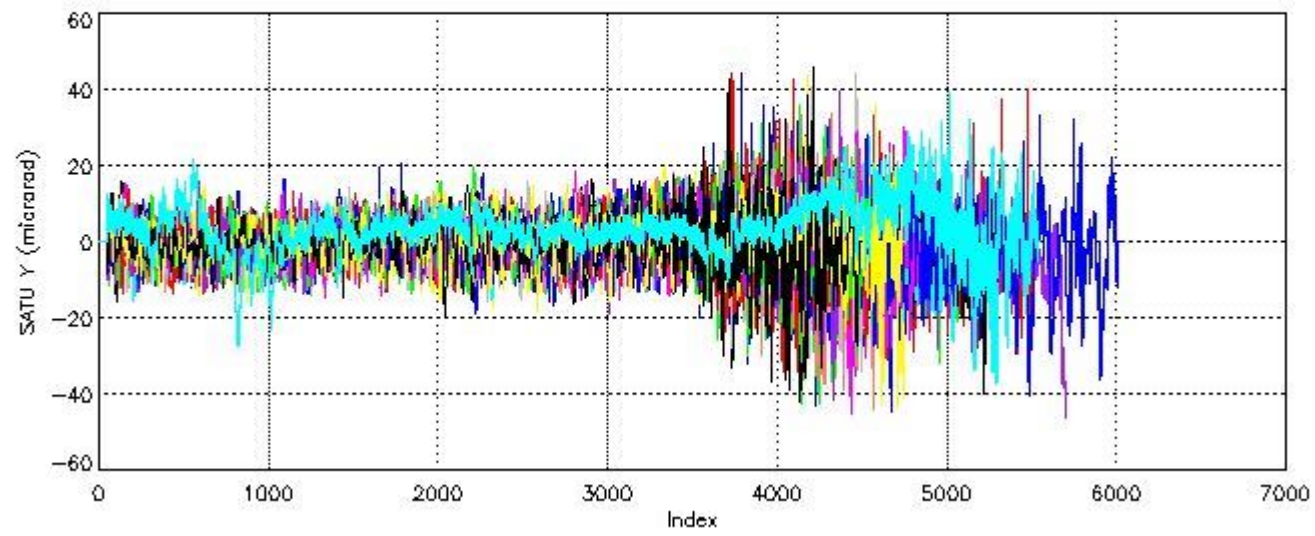
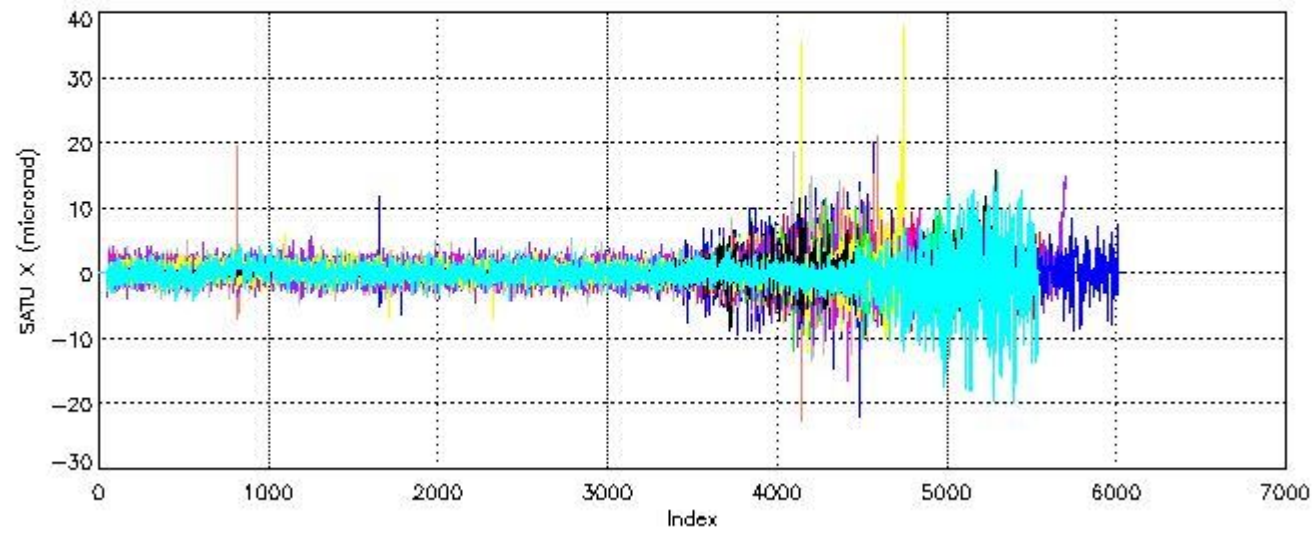


7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.17897	-0.53352	0.18543	0.025243
St. deviation:	0.60264	4.7501	0.83946	4.2972
Maximum:	19.400	21.700	4.4000	19.700
Minimum:	-7.1000	-27.200	-5.3000	-15.800

Number of data:	17850.	17850.	27700.	27700.
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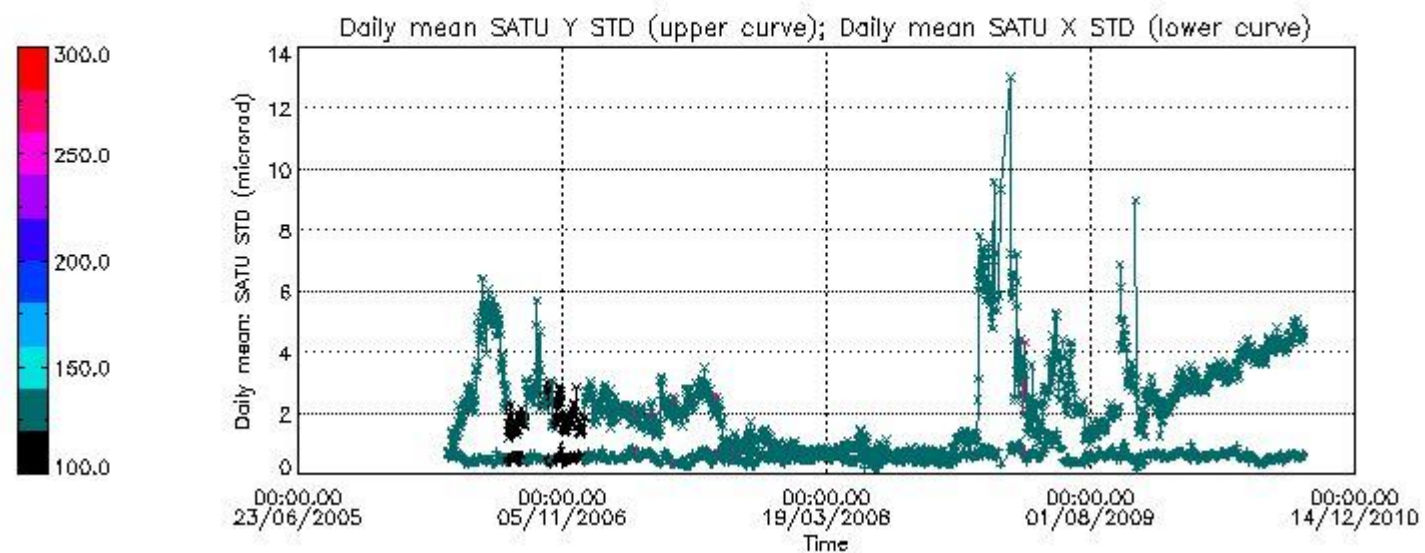
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

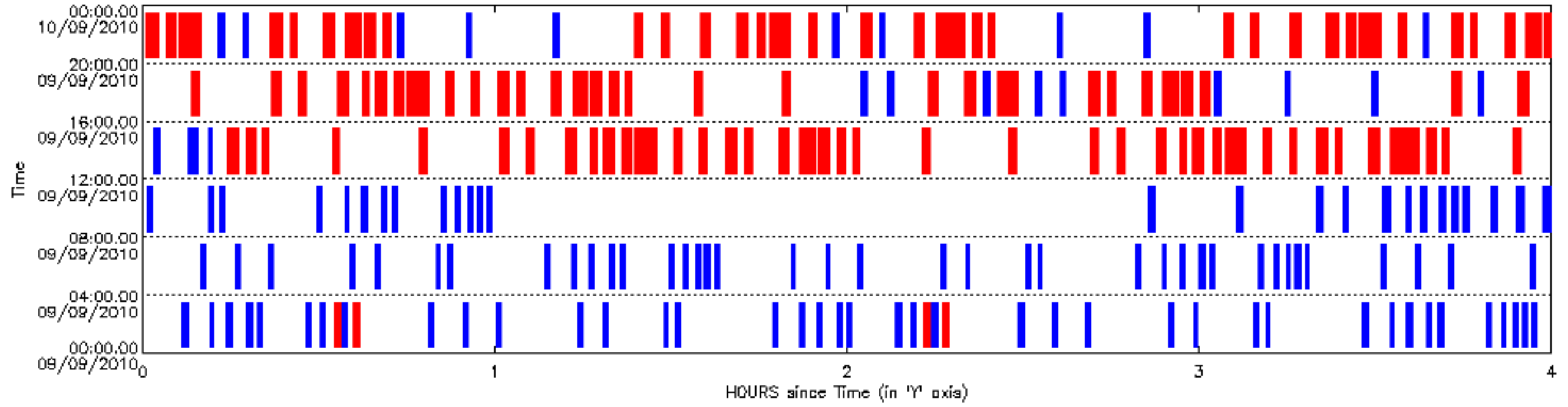
Lower curve: STD of SATU X axis

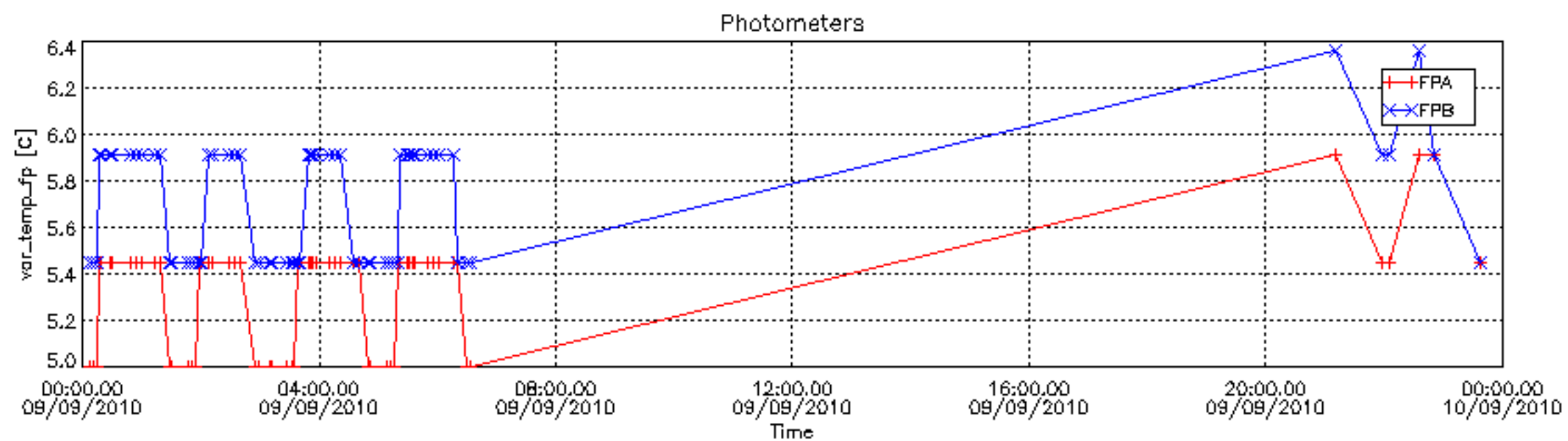
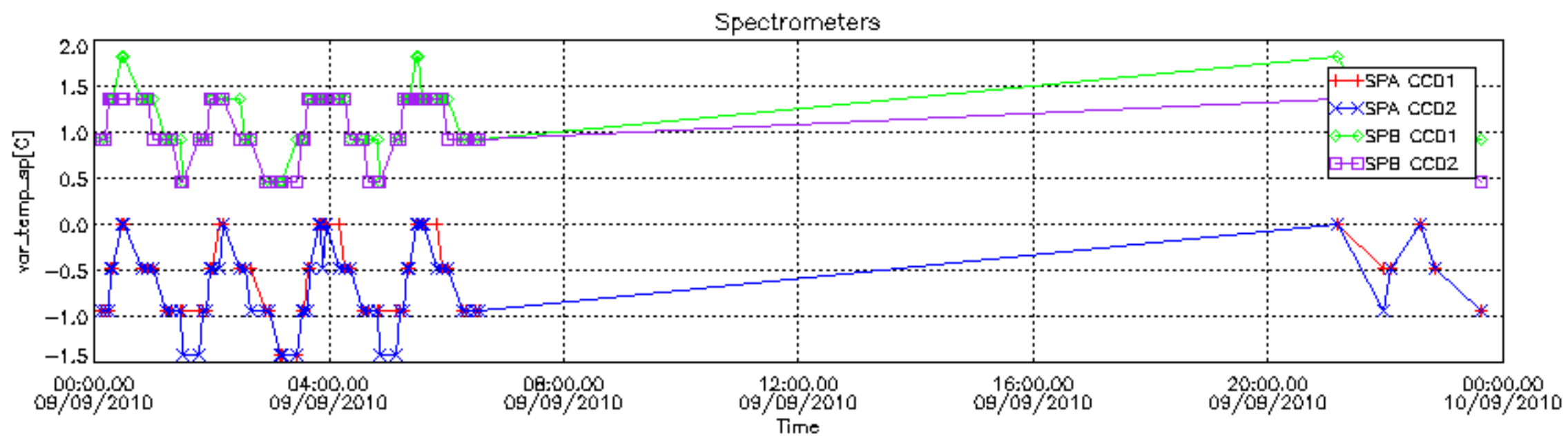


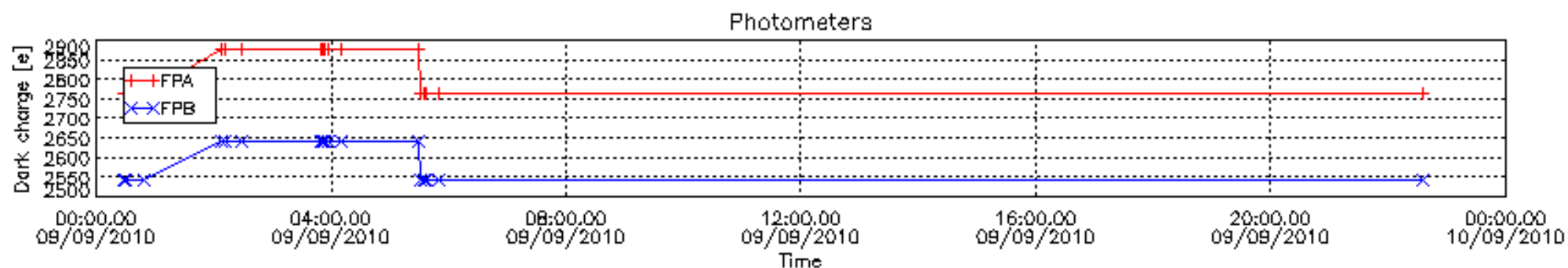
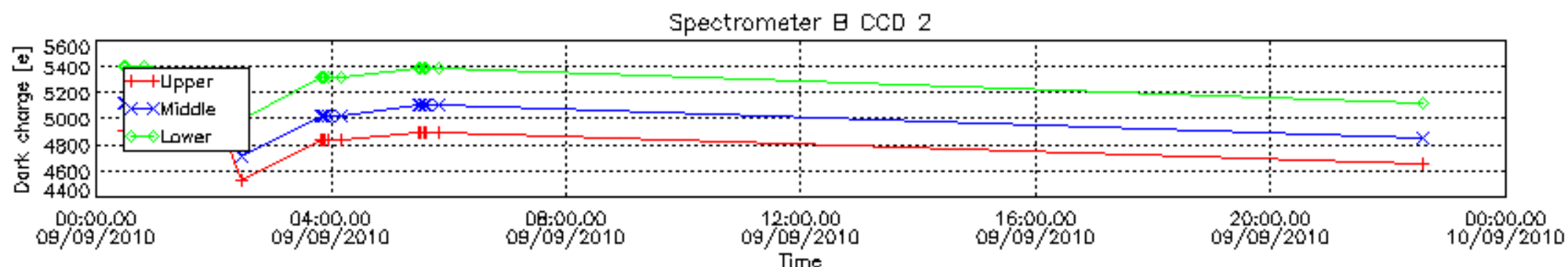
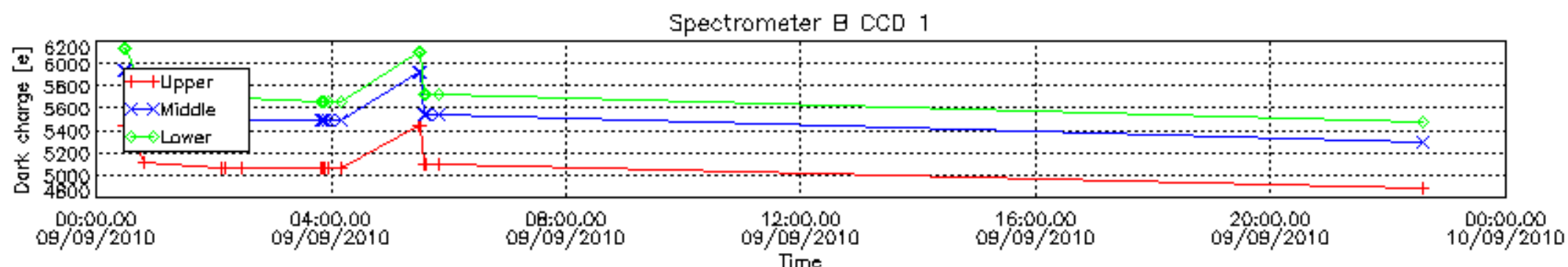
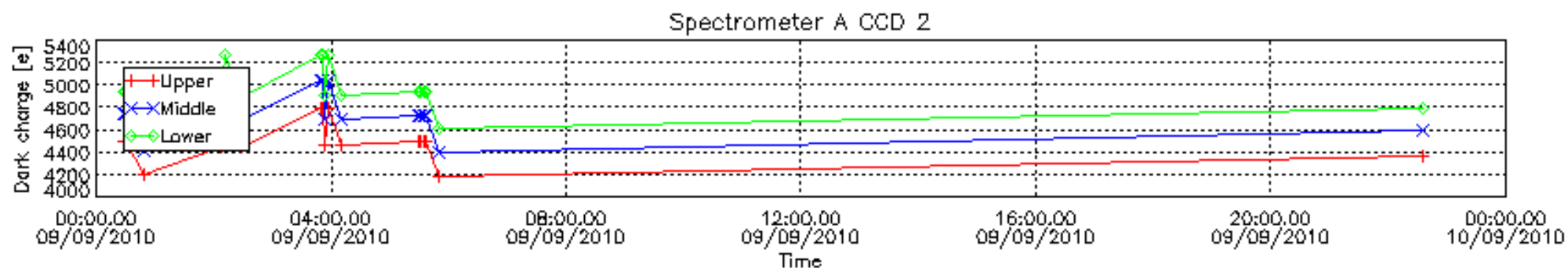
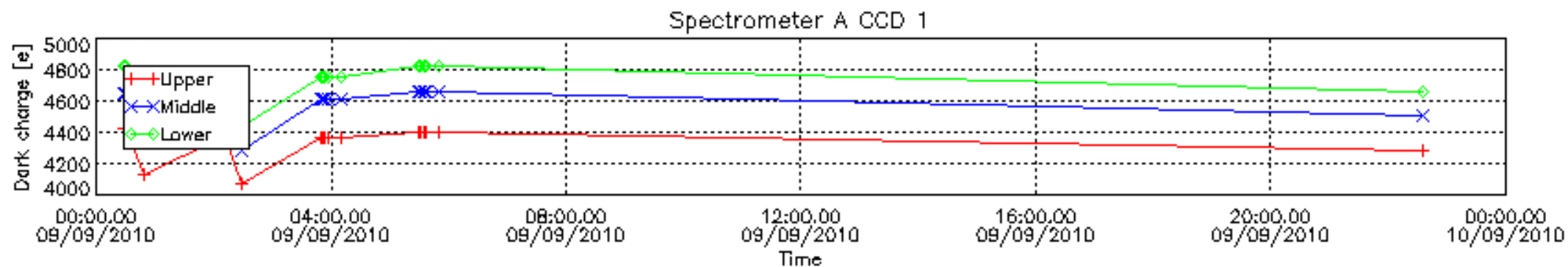
8. Auxiliary Data Files used for the production reported in section 2.4

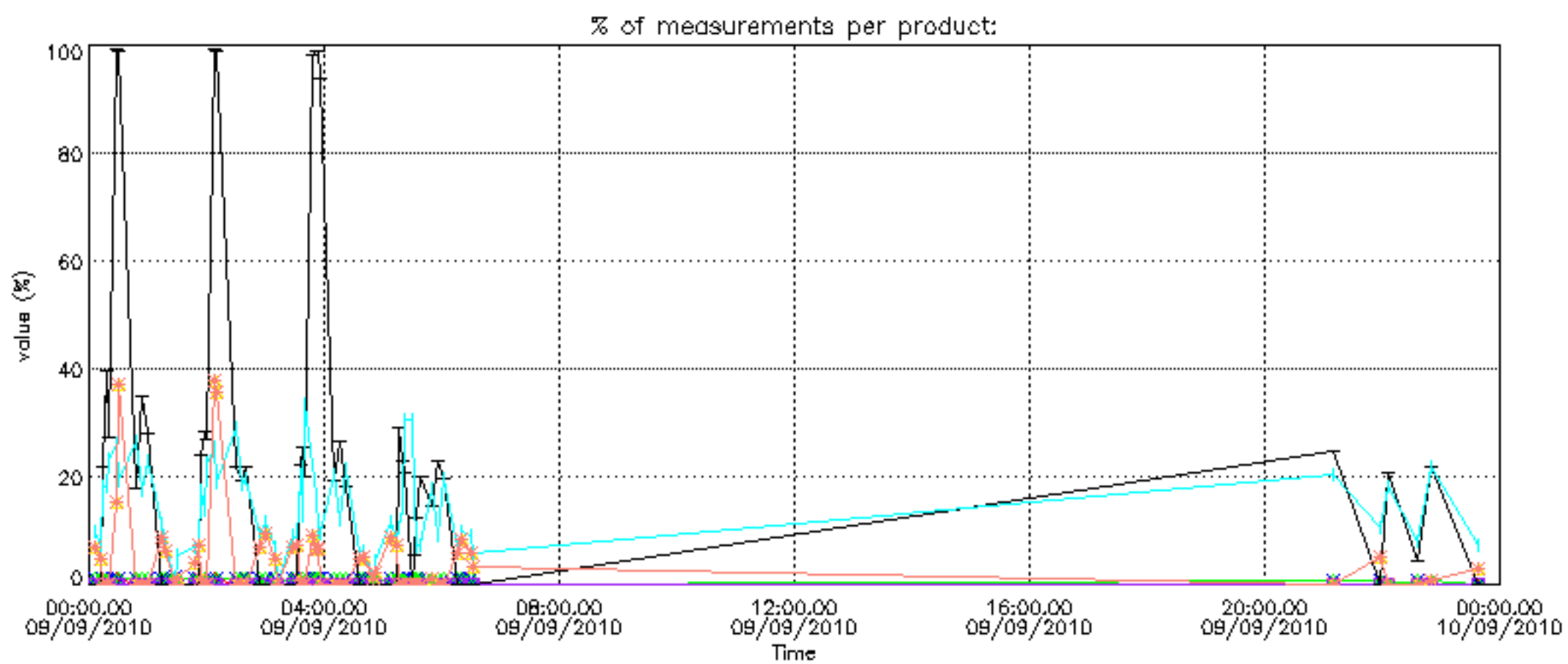
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	09-SEP-2010 00:06:41
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100906_073314_20100904_000000_20500101_000000	1	09-SEP-2010 00:06:41
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	09-SEP-2010 00:06:41
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	09-SEP-2010 00:06:41
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	09-SEP-2010 00:06:41
ECMWF_FILE	AUX_ECF_AXNECM20100908_054114_20100908_210000_20100909_090000	1	09-SEP-2010 00:06:41
ECMWF_FILE	AUX_ECF_AXNECM20100908_172855_20100909_030000_20100909_150000	29	09-SEP-2010 03:27:53
ECMWF_FILE	AUX_ECA_AXNECM20100909_052115_20100908_210000_20100909_090000	45	09-SEP-2010 05:08:29
ECMWF_FILE	AUX_ECF_AXNECM20100909_054115_20100909_210000_20100910_090000	61	09-SEP-2010 21:09:51
OPTIONAL_ECMWF_FILE	MISSING	1	09-SEP-2010 00:06:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100908_224010_000057382092_00430_44572_1025.N1	1	09-SEP-2010 00:06:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100909_002107_000057382092_00431_44573_1026.N1	6	09-SEP-2010 00:27:44
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100909_020204_000041442092_00432_44574_1027.N1	20	09-SEP-2010 02:08:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100909_031627_000057382092_00433_44575_1028.N1	29	09-SEP-2010 03:27:53
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100909_045724_000057382092_00434_44576_1029.N1	45	09-SEP-2010 05:08:29
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100908_092114_20100907_182640_20100917_213329	61	09-SEP-2010 21:09:51

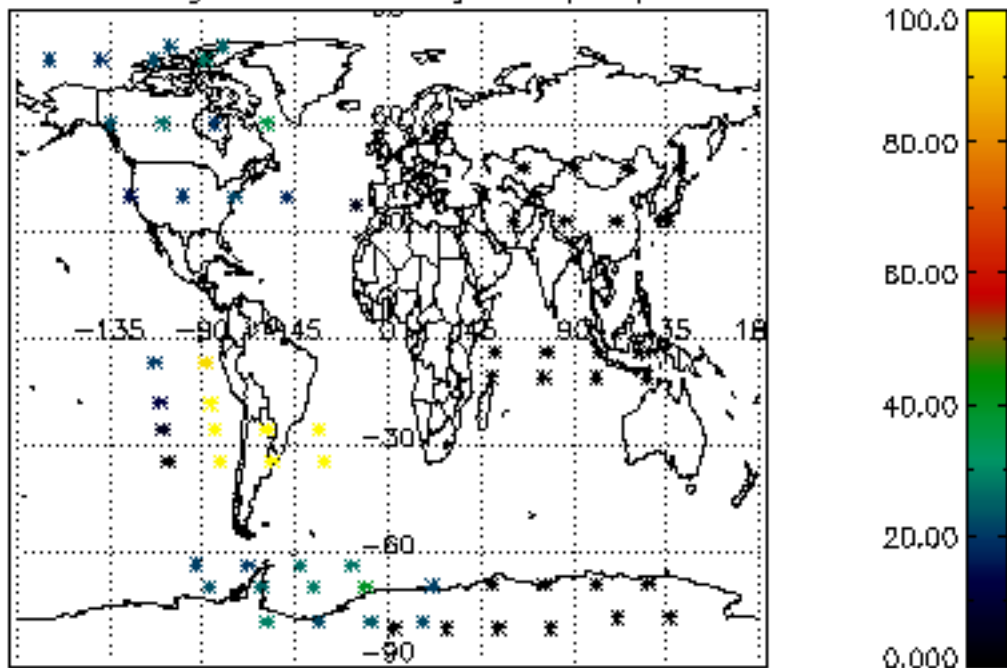




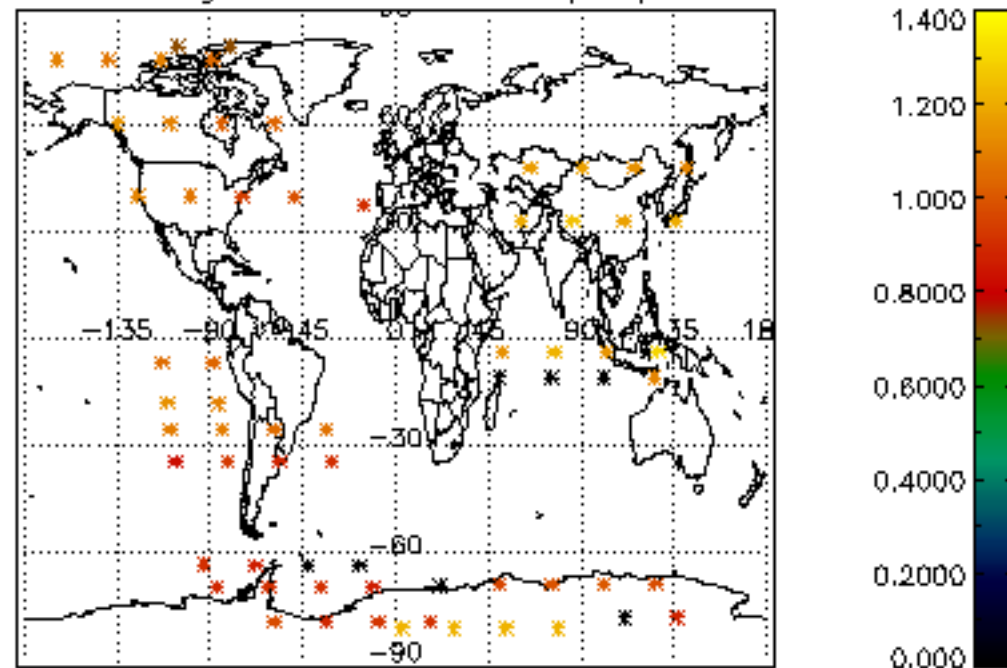




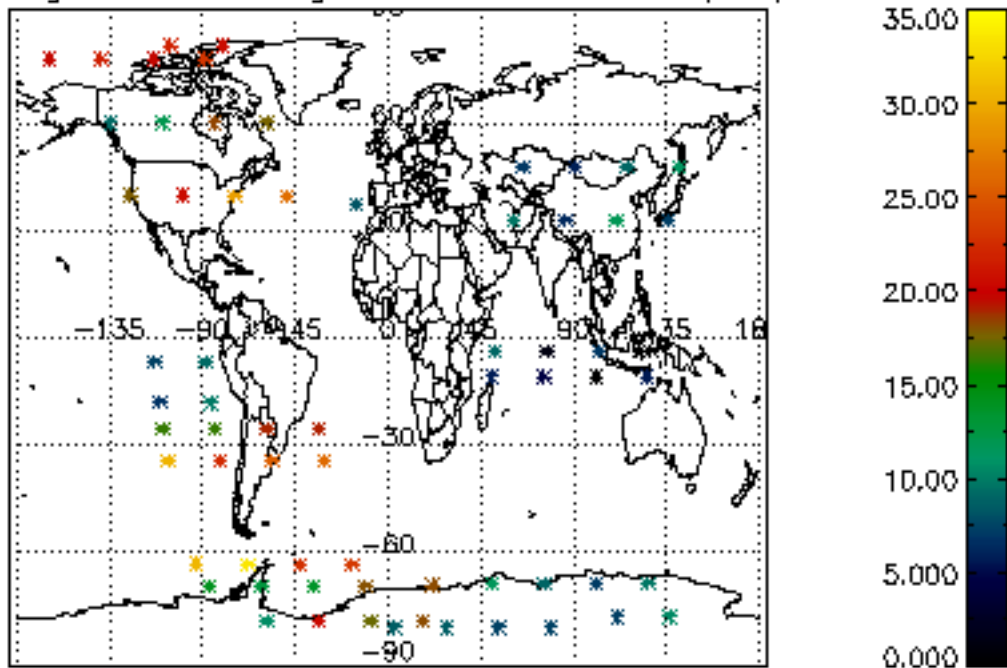
Percentage of cosmic ray hits per profile



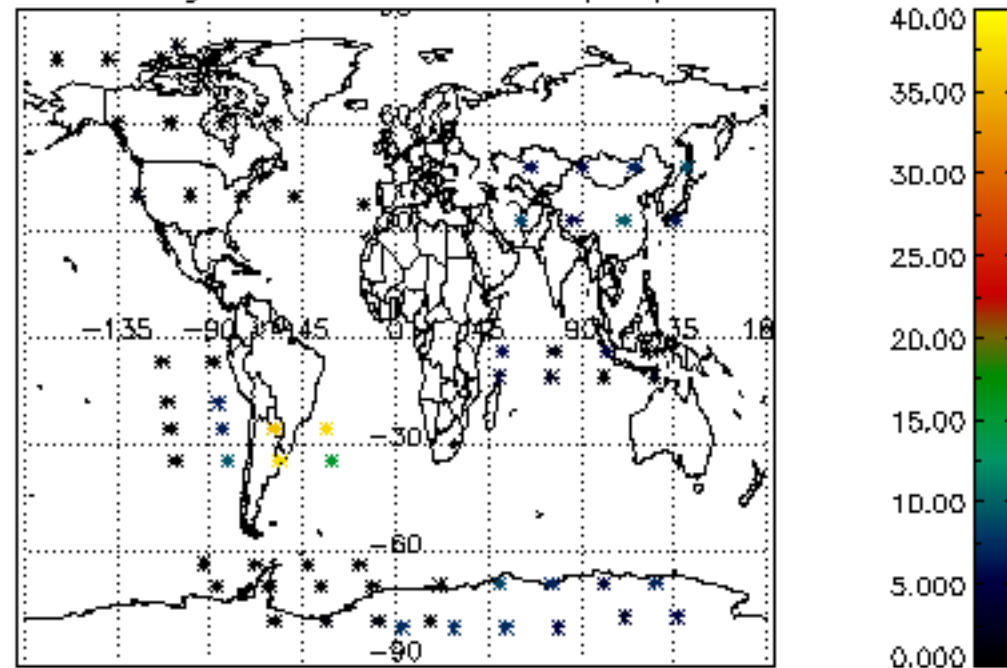
Percentage of datation errors per profile



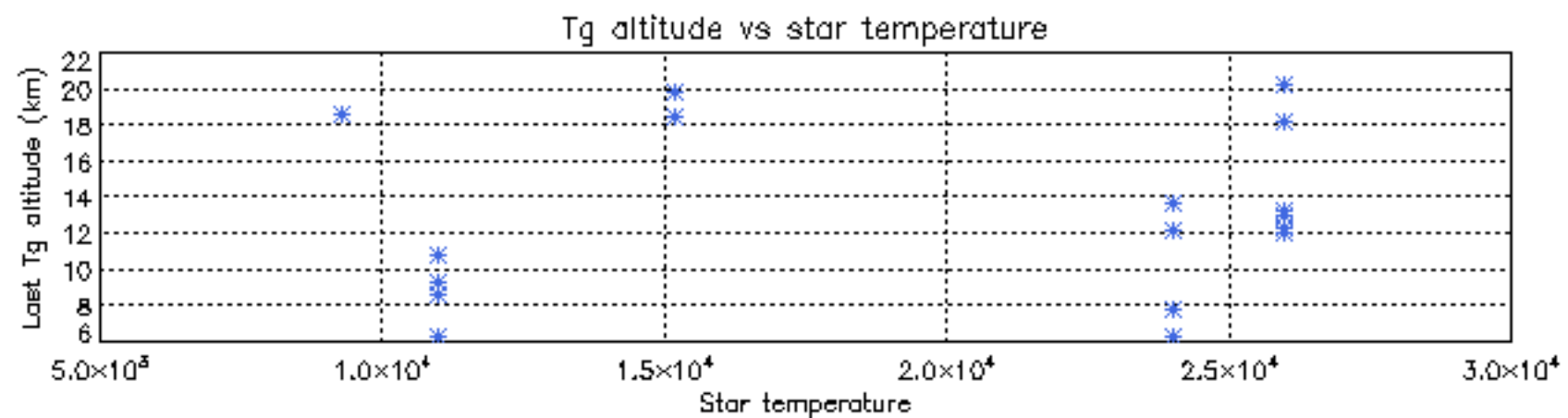
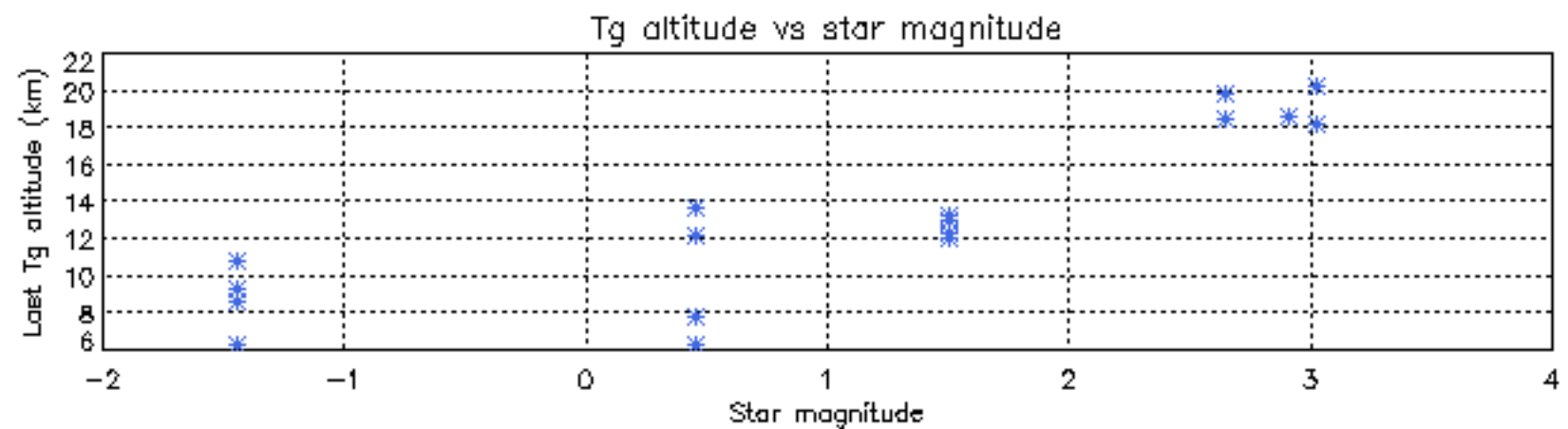
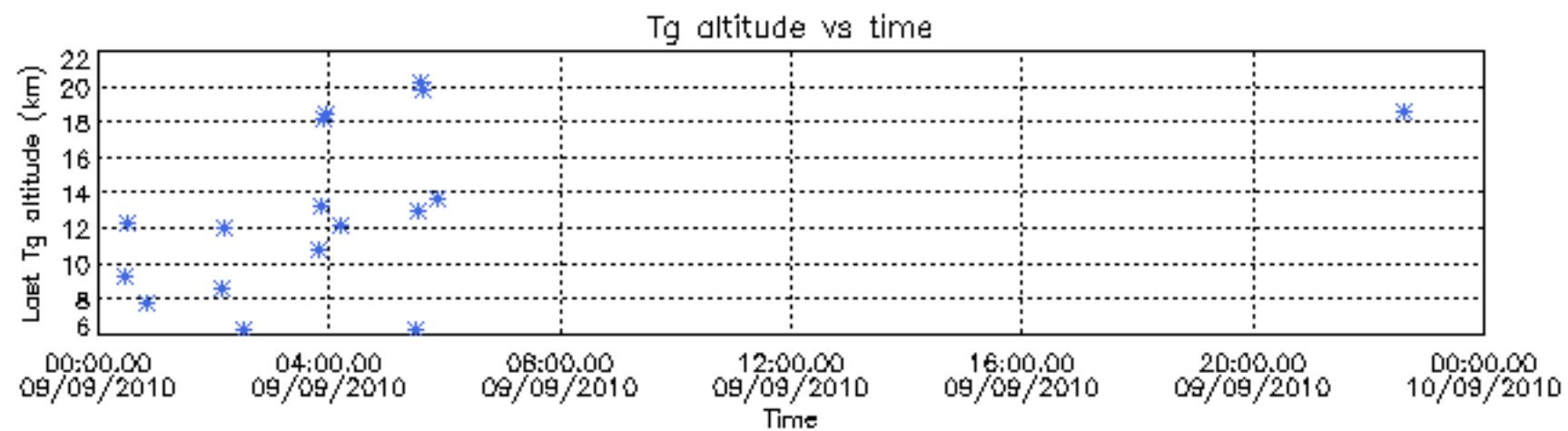
Percentage of star falling outside central band per profile



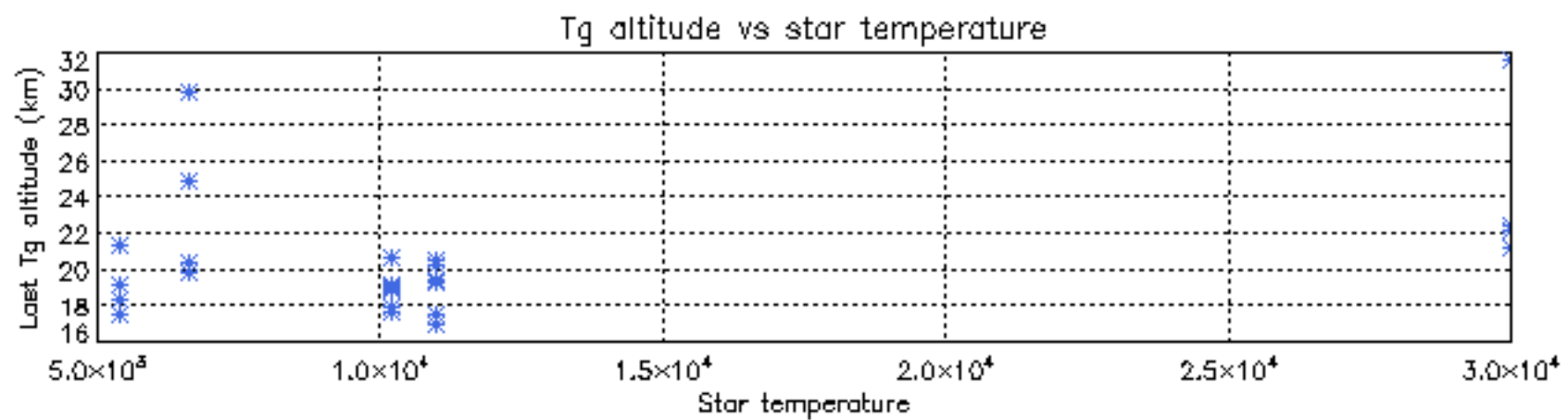
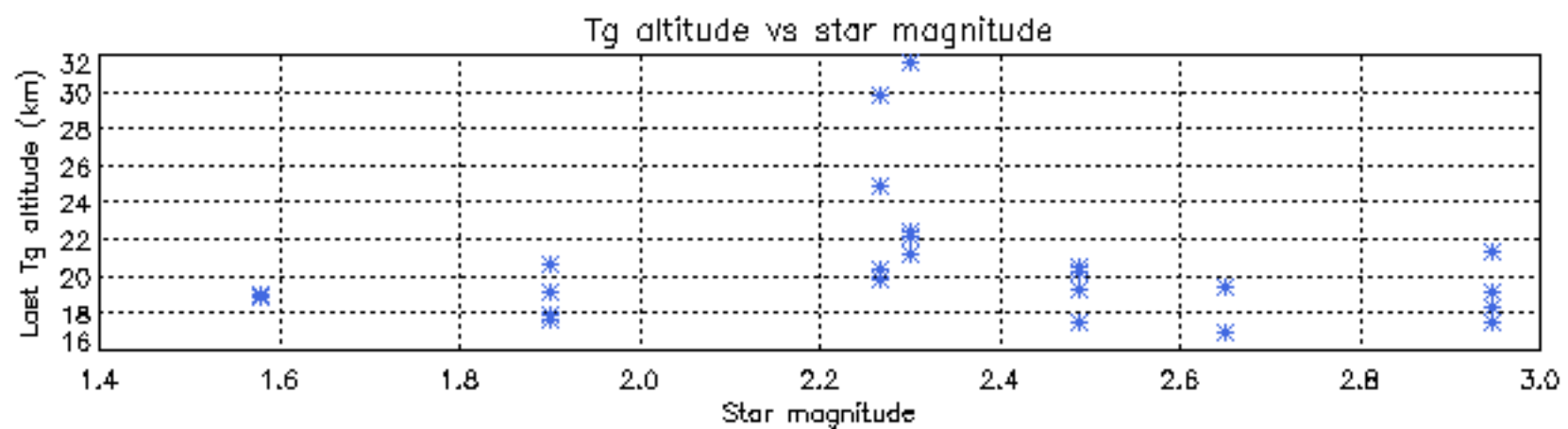
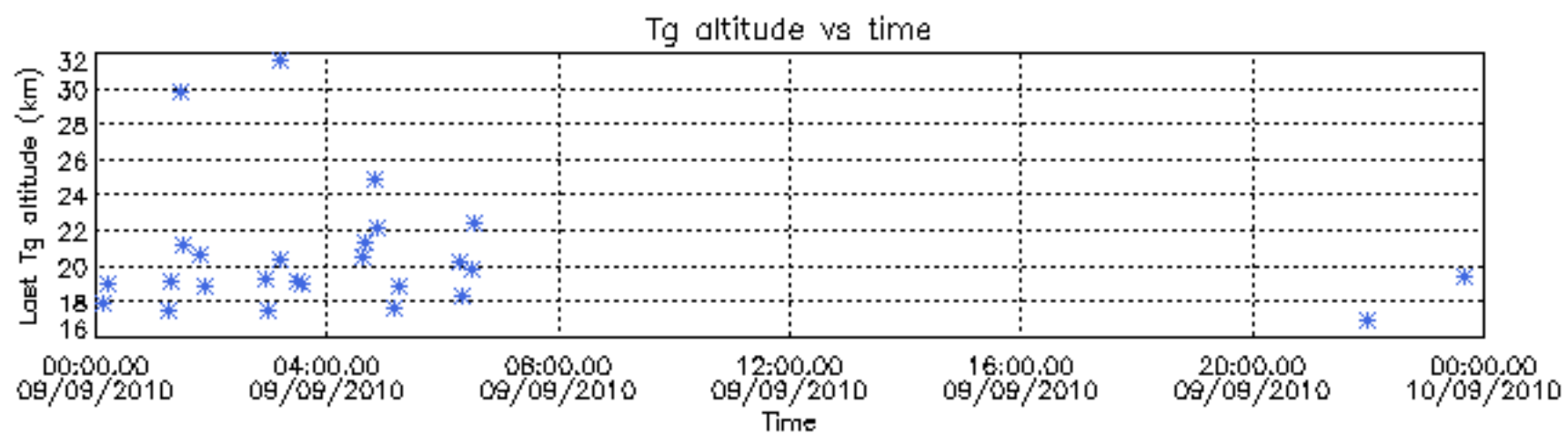
Percentage of saturation errors per profile



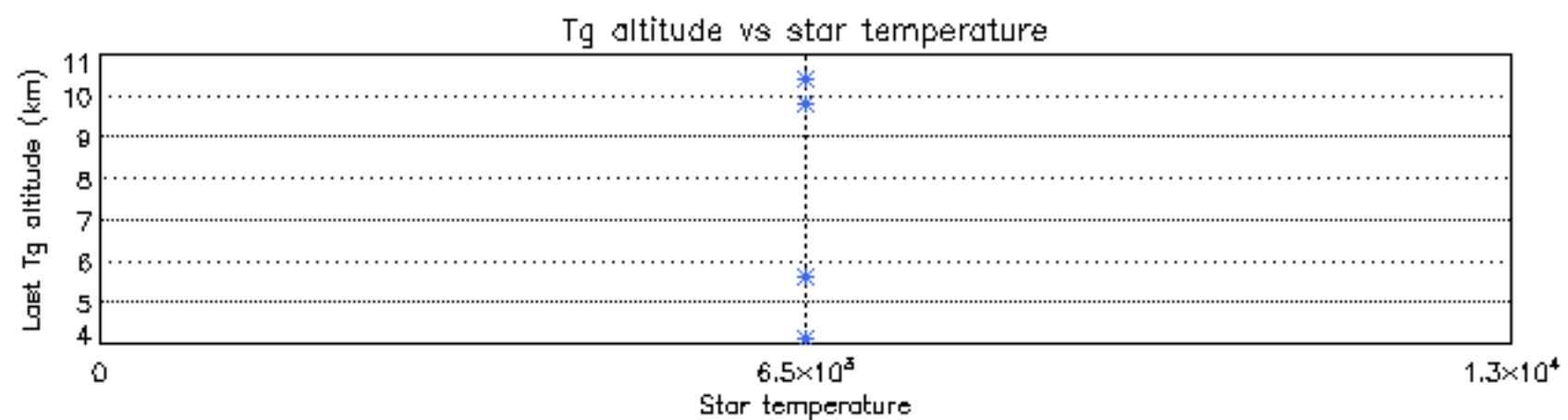
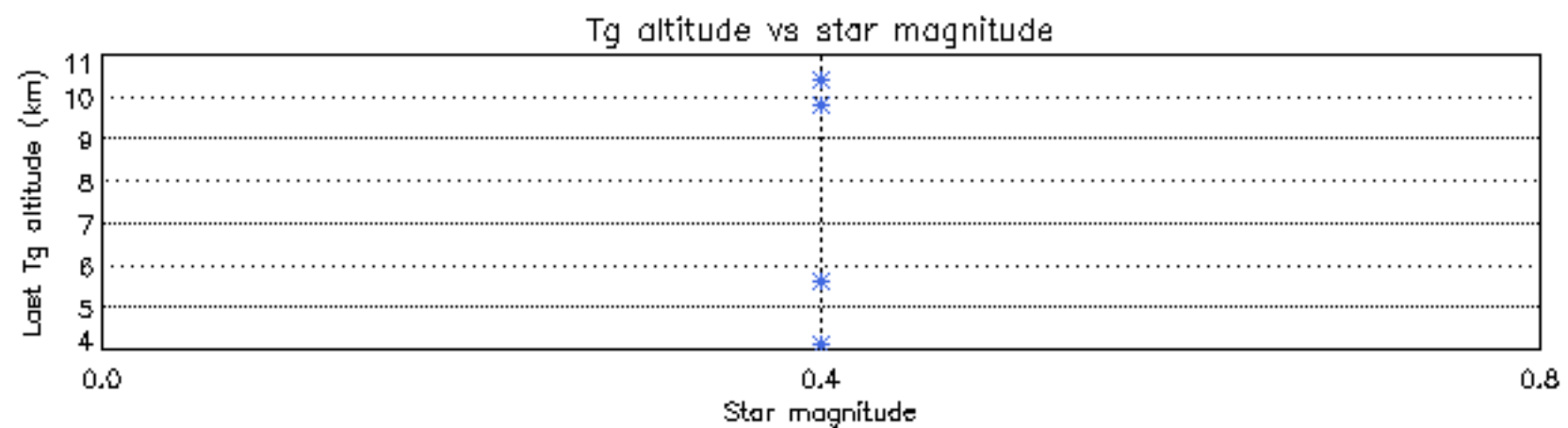
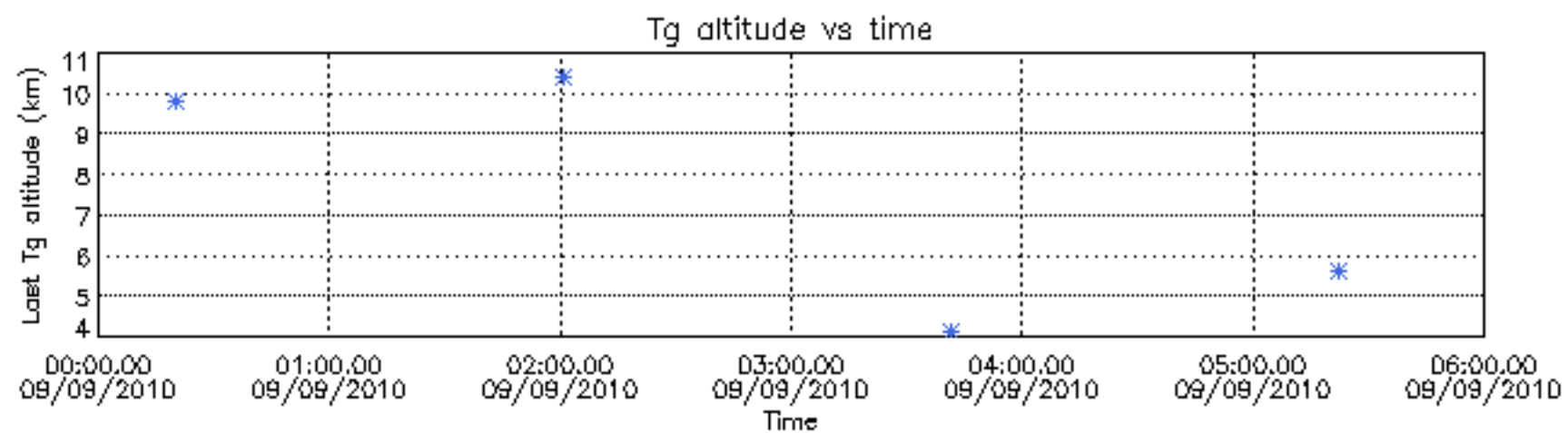
Tangent altitude at which the star is lost

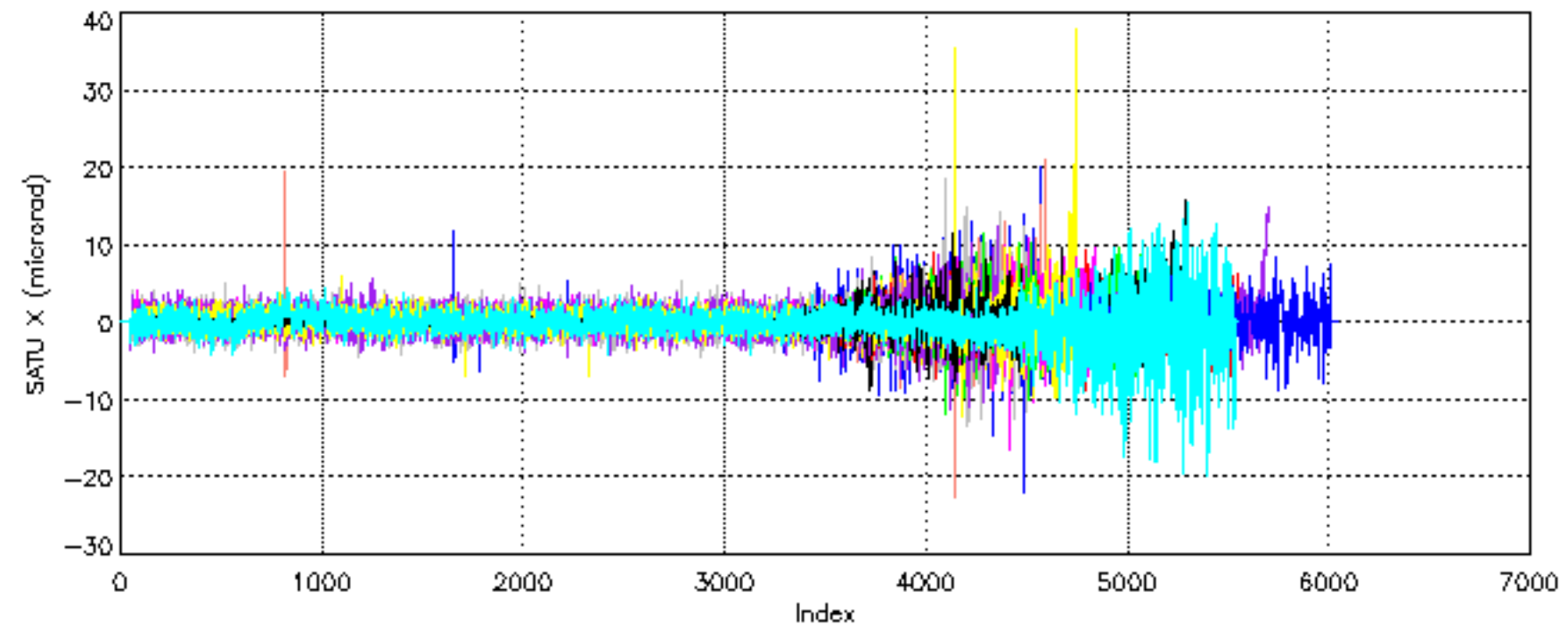


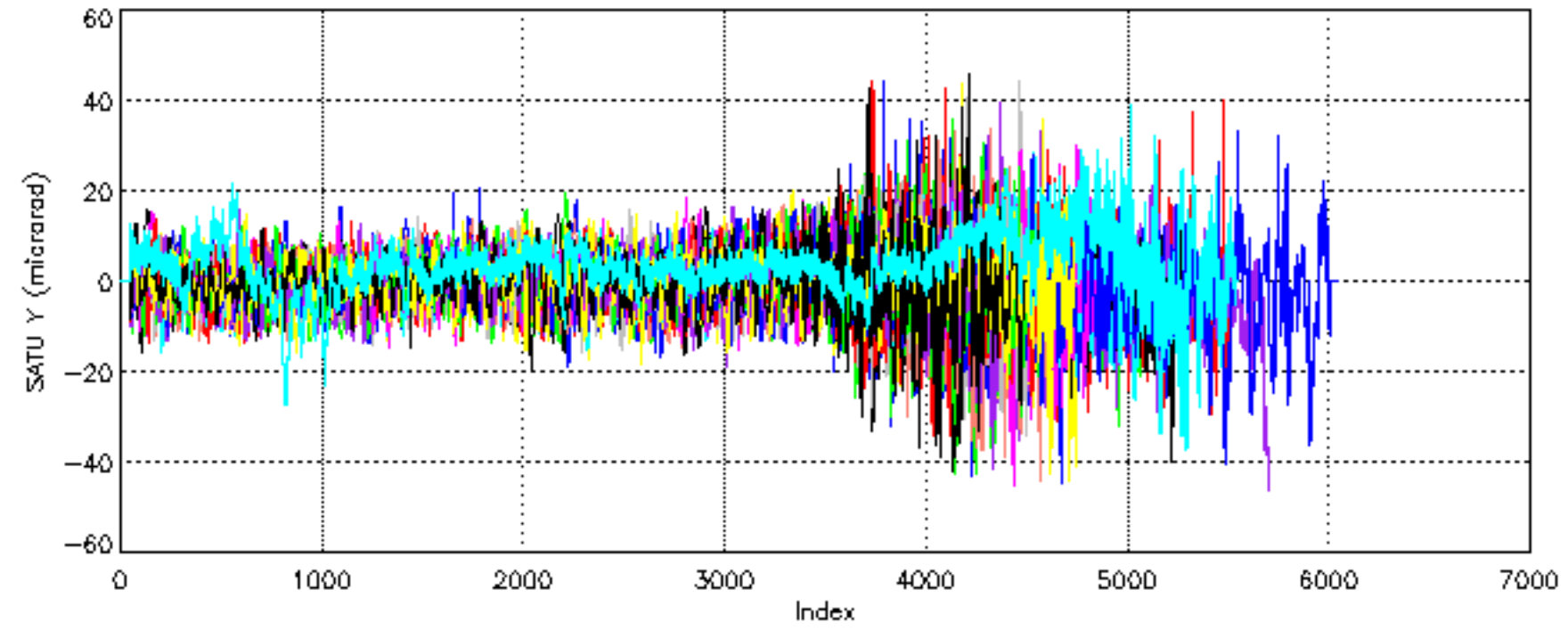
Tangent altitude at which the star is lost

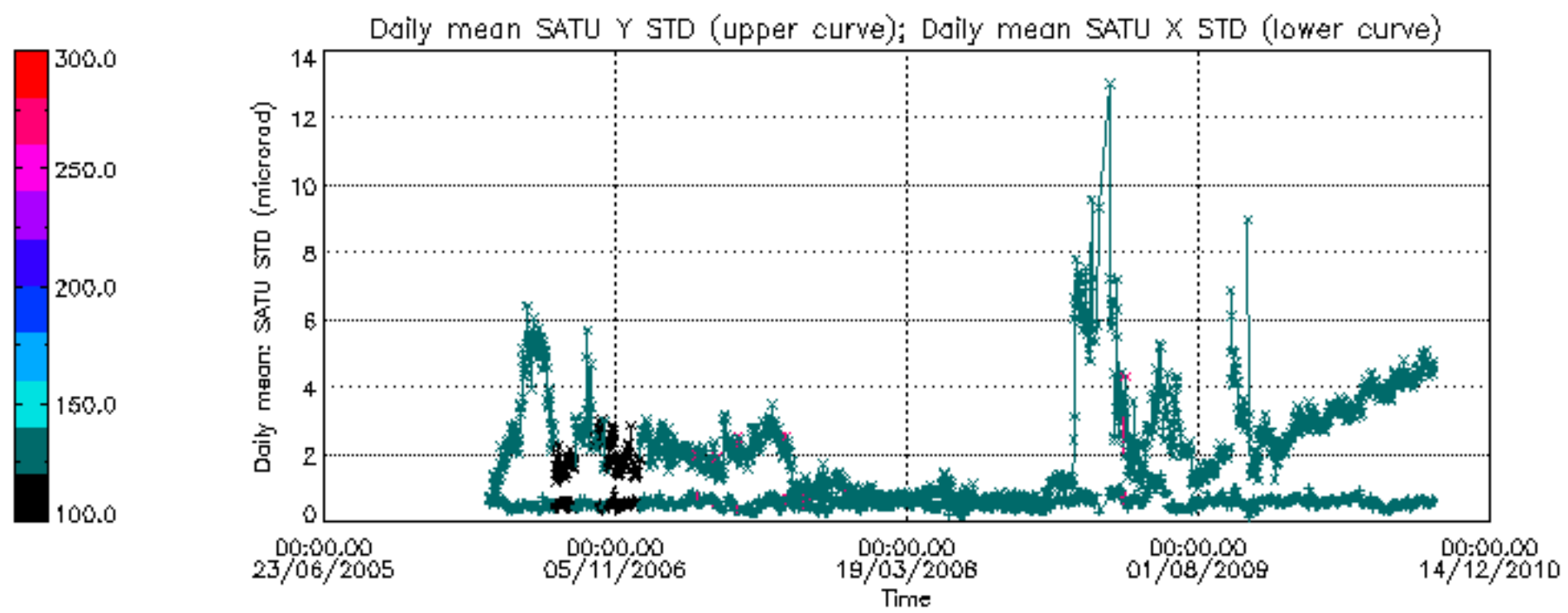


Tangent altitude at which the star is lost









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/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
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 5; 548.1; 03-SEP-2010 22:22:52; Dark ; 42.5; 143; Alp Hyi ; 2.86; 7200;occ; 85; 0;44501
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 8; 1339.5; 03-SEP-2010 22:36:04; Dark ; 54.5; 18; 24Alp PsA ; 1.17; 9700;occ; 109; 0;44501
 9; 1894.8; 03-SEP-2010 22:45:19; Bright; 39.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 78; 0;44501
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 4; 2487.9; 03-SEP-2010 07:49:49; Bright; 43.0; 164; 44Eta Peg ; 2.95; 5400;occ; 86; 0;44492
 5; 3124.9; 03-SEP-2010 08:00:26; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;44492
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 7; 4204.1; 03-SEP-2010 08:18:25; Bright; 67.0; 42; 34Bet Aur ; 1.90; 10200;occ; 134; 0;44492
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 18; 6658.4; 03-SEP-2010 08:59:19; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;44493
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5; 3200.5; 08-SEP-2010 15:27:11; Bright; 44.0; 76; 27Gam Cas ; 2.30; 30000;occ; 88; 0;44568
6; 4191.7; 08-SEP-2010 15:43:43; Bright; 52.0; 42; 34Bet Aur ; 1.90; 10200;occ; 104; 0;44568

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8; 4639.5; 08-SEP-2010 15:51:10; Dark ; 53.5; 170; 27Eps Gem ; 3.00; 9700;occ; 107; 0;44568
9; 4840.0; 08-SEP-2010 15:54:31; Dark ; 52.5; 44; 24Gam Gem ; 1.93; 11000;occ; 105; 0;44568
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13; 5723.9; 08-SEP-2010 16:09:15; Dark ; 45.0; 177; 1Zet CMA ; 3.02; 26000;occ; 90; 0;44568
14; 5812.5; 08-SEP-2010 16:10:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44568
15; 5916.1; 08-SEP-2010 16:12:27; Dark ; 47.5; 108; Alp Col ; 2.65; 15200;occ; 95; 0;44568
16; 6622.1; 08-SEP-2010 16:24:13; Dark ; 36.5; 143; Alp Hyi ; 2.86; 7200;occ; 73; 0;44569
17; 6702.4; 08-SEP-2010 16:25:33; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;44569
18; 7055.1; 08-SEP-2010 16:31:26; Dark ; 49.5; 84; Alp Phe ; 2.40; 4500;occ; 99; 0;44569

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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
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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
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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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
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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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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
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
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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
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
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5; -1080.4; 09-SEP-2010 05:21:14; Dark ; 55.5; 8; 10Alp CMi ; 0.40; 6500;occ; 111; 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
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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
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; -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
8; 4845.2; 09-SEP-2010 08:40:36; Dark ; 57.0; 44; 24Gam Gem ; 1.93; 11000;occ; 114; 0;44578
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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
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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
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2; 2611.6; 09-SEP-2010 18:06:57; Bright; 54.5; 58; 21Alp And ; 2.07; 11000;occ; 109; 0;44584
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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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
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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; 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
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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
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3; 4111.9; 10-SEP-2010 12:58:33; Bright; 65.0; 6; 13Alp Aur ; 0.08; 3400;occ; 130; 0;44595
4; 4377.4; 10-SEP-2010 13:02:58; Bright; 59.0; 107; 37The Aur ; 2.65; 11000;occ; 118; 0;44595
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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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7; 728.9; 16-SEP-2010 22:17:15; Dark ; 45.5; 9; Alp Eri ; 0.45; 24000;occ; 91; 0;44687
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9; 1528.8; 16-SEP-2010 22:30:34; Dark ; 42.0; 52; 16Bet Cet ; 2.04; 4500;occ; 84; 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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15; 7105.4; 16-SEP-2010 12:19:20; Dark ; 41.0; 84; Alp Phe ; 2.40; 4500;occ; 82; 0;44681
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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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 7; 5451.2; 16-SEP-2010 13:32:21; Dark ; 41.0; 132; 15Rho Pup ; 2.80; 6900;occ; 82; 0;44681
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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
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 4; 2532.4; 16-SEP-2010 16:04:54; Bright; 30.0; 58; 21Alp And ; 2.07; 11000;occ; 60; 0;44683
 5; 3024.4; 16-SEP-2010 16:13:06; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;44683

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4; 2531.6; 16-SEP-2010 17:45:30; Bright; 37.0; 58; 21Alp And ; 2.07; 11000;occ; 74; 0;44684
5; 3023.9; 16-SEP-2010 17:53:42; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44684
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9; 5452.6; 16-SEP-2010 18:34:11; Dark ; 44.0; 132; 15Rho Pup ; 2.80; 6900;occ; 88; 0;44684
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11; 5689.3; 16-SEP-2010 18:38:07; Dark ; 52.5; 23; 21Eps CMA ; 1.50; 26000;occ; 105; 0;44684
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14; 6678.1; 16-SEP-2010 18:54:36; Dark ; 40.5; 143; Alp Hyi ; 2.86; 7200;occ; 81; 0;44685
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3; -344.0; 16-SEP-2010 23:39:58; Dark ; 49.5; 23; 21Eps CMA ; 1.50; 26000;occ; 99; 0;44687
4; -120.1; 16-SEP-2010 23:43:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44687
5; 29.4; 16-SEP-2010 23:46:11; Dark ; 53.5; 2; Alp Car ; -0.74; 7000;occ; 107; 0;44688
6; 643.3; 16-SEP-2010 23:56:25; Dark ; 40.0; 143; Alp Hyi ; 2.86; 7200;occ; 80; 0;44688
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4; 2409.6; 16-SEP-2010 19:24:03; Bright; 43.0; 93; 53Bet Peg ; 2.52; 3100;occ; 86; 0;44685
5; 2530.9; 16-SEP-2010 19:26:05; Bright; 37.0; 58; 21Alp And ; 2.07; 11000;occ; 74; 0;44685
6; 3023.6; 16-SEP-2010 19:34:18; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44685
7; 3130.4; 16-SEP-2010 19:36:04; Bright; 43.0; 76; 27Gam Cas ; 2.30; 30000;occ; 86; 0;44685
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15; 6678.7; 16-SEP-2010 20:35:13; Dark ; 39.5; 143; Alp Hyi ; 2.86; 7200;occ; 79; 0;44686
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4; -119.2; 17-SEP-2010 01:24:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44688
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6; 644.3; 17-SEP-2010 01:37:02; Dark ; 37.5; 143; Alp Hyi ; 2.86; 7200;occ; 75; 0;44689

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13; 3021.5; 17-SEP-2010 02:16:39; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;44689
14; 3128.1; 17-SEP-2010 02:18:25; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44689
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16; 5009.8; 17-SEP-2010 02:49:47; Dark ; 53.0; 8; 10Alp CMi ; 0.40; 6500;occ; 106; 0;44689
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11; 5920.6; 17-SEP-2010 08:06:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;44692
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13; 6682.0; 17-SEP-2010 08:19:27; Dark ; 42.0; 143; Alp Hyi ; 2.86; 7200;occ; 84; 0;44693
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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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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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4; 2482.5; 22-SEP-2010 16:15:33; Bright; 42.5; 58; 21Alp And ; 2.07; 11000;occ; 85; 0;44769
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8; 5059.4; 22-SEP-2010 16:58:30; Dark ; 65.5; 8; 10Alp CMI ; 0.40; 6500;occ; 131; 0;44769
9; 5499.4; 22-SEP-2010 17:05:50; Dark ; 43.5; 132; 15Rho Pup ; 2.80; 6900;occ; 87; 0;44769
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11; 5811.3; 22-SEP-2010 17:11:02; Dark ; 42.5; 117; Pi Pup ; 2.71; 3800;occ; 85; 0;44769
12; 5997.6; 22-SEP-2010 17:14:08; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;44769
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14; 6804.3; 22-SEP-2010 17:27:35; Dark ; 51.0; 9; Alp Eri ; 0.45; 24000;occ; 102; 0;44770
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12; 5812.7; 22-SEP-2010 20:32:16; Dark ; 52.5; 117; Pi Pup ; 2.71; 3800;occ; 105; 0;44771
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 6; 770.4; 23-SEP-2010 01:50:37; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;44775
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 9; 2167.9; 23-SEP-2010 02:13:54; Bright; 37.5; 90; 54Alp Peg ; 2.49; 11000;occ; 75; 0;44775
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12; 2987.5; 23-SEP-2010 02:27:34; Bright; 38.0; 74; 11Bet Cas ; 2.27; 6600;occ; 76; 0;44775
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 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
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 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
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 7; 5.4; 23-SEP-2010 04:59:04; Dark ; 44.0; 161; Tau Pup ; 2.93; 4500;occ; 88; 0;44776
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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
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 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
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 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
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 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
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 11; 5783.8; 23-SEP-2010 18:19:33; Dark ; 54.0; 23; 21Eps CMA ; 1.50; 26000;occ; 108; 0;44784
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 13; 6046.8; 23-SEP-2010 18:23:56; Dark ; 43.0; 161; Tau Pup ; 2.93; 4500;occ; 86; 0;44785
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 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
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 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
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 15; 6185.8; 23-SEP-2010 20:06:51; Dark ; 55.5; 108; Alp Col ; 2.65; 15200;occ; 111; 0;44786
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 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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 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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 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
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 5; 3074.0; 24-SEP-2010 10:20:23; Bright; 41.5; 76; 27Gam Cas ; 2.30; 30000;occ; 83; 0;44794
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 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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8; 5710.7; 24-SEP-2010 14:25:31; Dark ; 46.0; 88; 31Eta CMA ; 2.45; 20000;occ; 92; 0;44796
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 8; 1547.0; 25-SEP-2010 22:48:06; Dark ; 52.0; 52; 16Bet Cet ; 2.04; 4500;occ; 104; 0;44816
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3; -207.1; 30-SEP-2010 21:21:22; Dark ; 60.0; 37; 25Del CMA ; 1.83; 5900;occ; 120; 0;44886
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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
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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
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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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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
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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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4; 2953.9; 30-SEP-2010 12:10:28; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;44881
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
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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
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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
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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
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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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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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