

GOMOS Daily Report 08-JUL-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	13JUL2010 04:58:24
Data source version	GOMOS/5.01
Start time of products	08JUL2010 00:00:25
Stop time of products	08JUL2010 23:58:57
Store outputs in DB	Yes
Nb of level 1b prods	92
Nb of prods with errors	0

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

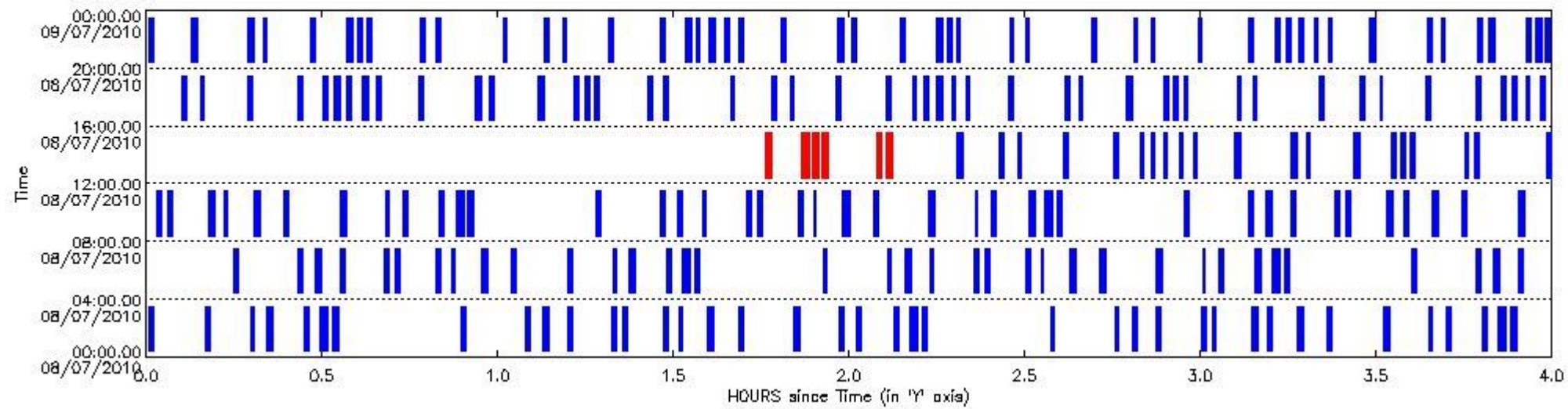
2.1 Level 0 products arrived in PCF (see template [here](#))

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
08-JUL-2010 13:45:43	AlpPhe	84	43680
08-JUL-2010 13:51:59	BetGru	63	43680
08-JUL-2010 13:53:47	AlpGru	31	43680
08-JUL-2010 13:55:28	AlpPav	45	43680
08-JUL-2010 14:04:37	38ZetSgr	103	43680
08-JUL-2010 14:06:23	22LamSgr	137	43680

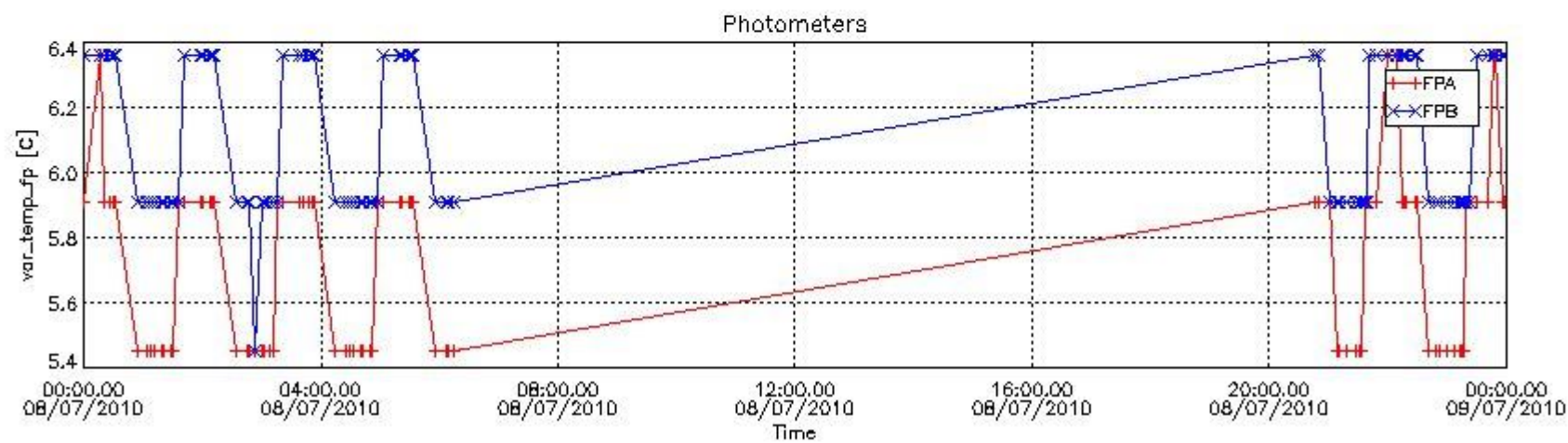
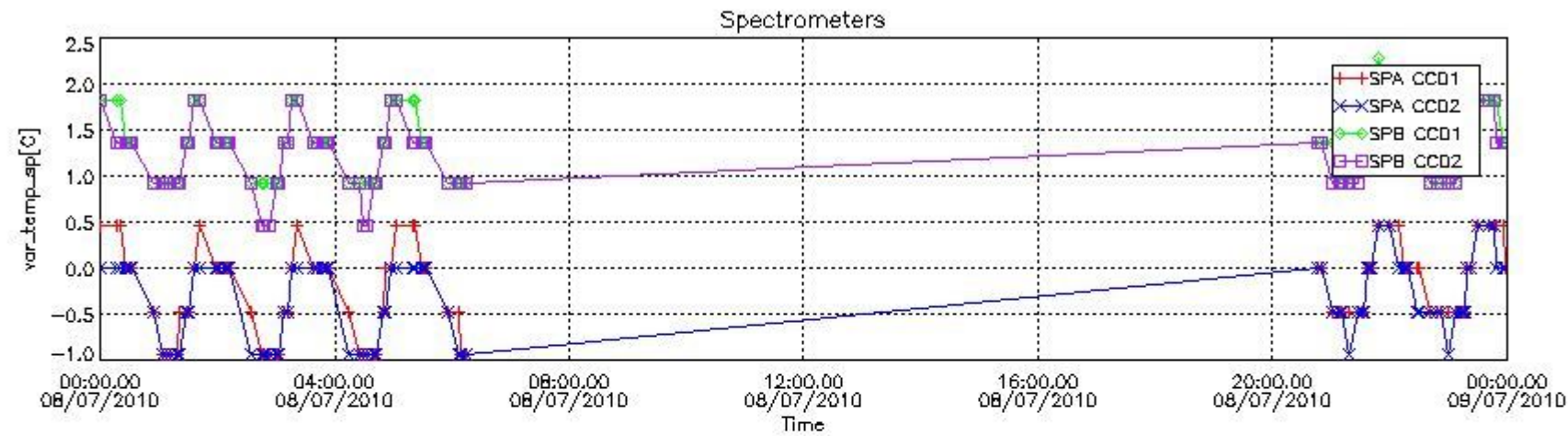
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100708_000025_000000552091_00030_43671_4977.N1	08-JUL-2010 00:00:25	Dark	54.500	94	92Alp Cet	2.5260	3100.0	109	43671	No
2	GOM_TRA_1PNPDE20100708_001745_000000412091_00031_43672_4986.N1	08-JUL-2010 00:17:45	Dark	41.000	52	16Bet Cet	2.0370	4500.0	82	43672	No
3	GOM_TRA_1PNPDE20100708_002038_000000502091_00031_43672_4987.N1	08-JUL-2010 00:20:38	Dark	49.500	84	Alp Phe	2.3970	4500.0	99	43672	No
4	GOM_TRA_1PNPDE20100708_002655_000000522091_00031_43672_4988.N1	08-JUL-2010 00:26:55	Straylight	51.500	63	Bet Gru	2.1500	2800.0	103	43672	No
5	GOM_TRA_1PNPDE20100708_002940_000000812091_00031_43672_4989.N1	08-JUL-2010 00:29:40	Straylight	81.000	18	24Alp PsA	1.1660	9700.0	162	43672	No

6	GOM_TRA_1PNPDE20100708_003149_00000552091_00031_43672_4990.N1	08-JUL-2010 00:31:49	Straylight	55.000	172	Gam Gru	3.0030	13100.	110	43672	No
7	GOM_TRA_1PNPDE20100708_005346_00000432091_00031_43672_4991.N1	08-JUL-2010 00:53:46	Bright	42.500	168	17Zet Aql	2.9860	11000.	85	43672	No
8	GOM_TRA_1PNPDE20100708_010444_00000452091_00031_43672_4992.N1	08-JUL-2010 01:04:44	Bright	44.500	144	18Del Cyg	2.8600	11000.	89	43672	No
9	GOM_TRA_1PNPDE20100708_010747_00000552091_00031_43672_4993.N1	08-JUL-2010 01:07:47	Bright	55.000	19	50Alp Cyg	1.2460	10500.	110	43672	No
10	GOM_TRA_1PNPDE20100708_011157_00000442091_00031_43672_4994.N1	08-JUL-2010 01:11:57	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	43672	No
11	GOM_TRA_1PNPDE20100708_011928_00000502091_00031_43672_4995.N1	08-JUL-2010 01:19:28	Bright	50.000	74	11Bet Cas	2.2680	6600.0	100	43672	No
12	GOM_TRA_1PNPDE20100708_012123_00000422091_00031_43672_4996.N1	08-JUL-2010 01:21:23	Bright	42.000	110	37Del Cas	2.6780	8900.0	84	43672	No
13	GOM_TRA_1PNPDE20100708_012815_00000532091_00031_43672_4997.N1	08-JUL-2010 01:28:15	Bright	52.500	73	57Gam1And	2.2600	13100.	105	43672	No
14	GOM_TRA_1PNPDE20100708_013056_00000372091_00031_43672_4998.N1	08-JUL-2010 01:30:56	Tw_i_and_stray	37.000	53	43Bet And	2.0480	3300.0	74	43672	No
15	GOM_TRA_1PNPDE20100708_013554_00000642091_00031_43672_4999.N1	08-JUL-2010 01:35:54	Dark	64.000	50	13Alp Ari	2.0070	4250.0	128	43672	No
16	GOM_TRA_1PNPDE20100708_014102_00000572091_00031_43672_5000.N1	08-JUL-2010 01:41:02	Dark	57.000	94	92Alp Cet	2.5260	3100.0	114	43672	No
17	GOM_TRA_1PNPDE20100708_015823_00000362091_00032_43673_5011.N1	08-JUL-2010 01:58:23	Dark	36.000	52	16Bet Cet	2.0370	4500.0	72	43673	No
18	GOM_TRA_1PNPDE20100708_020115_00000512091_00032_43673_5012.N1	08-JUL-2010 02:01:15	Dark	51.000	84	Alp Phe	2.3970	4500.0	102	43673	No
19	GOM_TRA_1PNPDE20100708_020732_00000642091_00032_43673_5013.N1	08-JUL-2010 02:07:32	Straylight	64.000	63	Bet Gru	2.1500	2800.0	128	43673	No
20	GOM_TRA_1PNPDE20100708_021017_00000792091_00032_43673_5014.N1	08-JUL-2010 02:10:17	Straylight	79.000	18	24Alp PsA	1.1660	9700.0	158	43673	No
21	GOM_TRA_1PNPDE20100708_021227_00000552091_00032_43673_5015.N1	08-JUL-2010 02:12:27	Straylight	54.500	172	Gam Gru	3.0030	13100.	109	43673	No
22	GOM_TRA_1PNPDE20100708_023422_00000452091_00032_43673_5016.N1	08-JUL-2010 02:34:22	Bright	44.500	168	17Zet Aql	2.9860	11000.	89	43673	No
23	GOM_TRA_1PNPDE20100708_024519_00000432091_00032_43673_5017.N1	08-JUL-2010 02:45:19	Bright	42.500	144	18Del Cyg	2.8600	11000.	85	43673	No
24	GOM_TRA_1PNPDE20100708_024822_00000572091_00032_43673_5018.N1	08-JUL-2010 02:48:22	Bright	57.000	19	50Alp Cyg	1.2460	10500.	114	43673	No
25	GOM_TRA_1PNPDE20100708_025232_00000432091_00032_43673_5019.N1	08-JUL-2010 02:52:32	Bright	43.000	89	5Alp Cep	2.4510	8000.0	86	43673	No
26	GOM_TRA_1PNPDE20100708_030003_00000512091_00032_43673_5036.N1	08-JUL-2010 03:00:03	Bright	50.500	74	11Bet Cas	2.2680	6600.0	101	43673	No
27	GOM_TRA_1PNPDE20100708_030158_00000442091_00032_43673_5037.N1	08-JUL-2010 03:01:58	Bright	44.000	110	37Del Cas	2.6780	8900.0	88	43673	No
28	GOM_TRA_1PNPDE20100708_030851_00000572091_00032_43673_5038.N1	08-JUL-2010 03:08:51	Bright	56.500	73	57Gam1And	2.2600	13100.	113	43673	No
29	GOM_TRA_1PNPDE20100708_031132_00000372091_00032_43673_5039.N1	08-JUL-2010 03:11:32	Tw_i_and_stray	37.000	53	43Bet And	2.0480	3300.0	74	43673	No
30	GOM_TRA_1PNPDE20100708_031630_00000662091_00032_43673_5040.N1	08-JUL-2010 03:16:30	Dark	66.000	50	13Alp Ari	2.0070	4250.0	132	43673	No
31	GOM_TRA_1PNPDE20100708_032138_00000462091_00032_43673_5041.N1	08-JUL-2010 03:21:38	Dark	45.500	94	92Alp Cet	2.5260	3100.0	91	43673	No
32	GOM_TRA_1PNPDE20100708_033902_00000362091_00033_43674_5042.N1	08-JUL-2010 03:39:02	Dark	36.000	52	16Bet Cet	2.0370	4500.0	72	43674	No
33	GOM_TRA_1PNPDE20100708_034152_00000502091_00033_43674_5043.N1	08-JUL-2010 03:41:52	Dark	50.000	84	Alp Phe	2.3970	4500.0	100	43674	No
34	GOM_TRA_1PNPDE20100708_034809_00000532091_00033_43674_5044.N1	08-JUL-2010 03:48:09	Straylight	52.500	63	Bet Gru	2.1500	2800.0	105	43674	No
35	GOM_TRA_1PNPDE20100708_035055_00000812091_00033_43674_5045.N1	08-JUL-2010 03:50:55	Straylight	81.000	18	24Alp PsA	1.1660	9700.0	162	43674	No
36	GOM_TRA_1PNPDE20100708_035304_00000562091_00033_43674_5046.N1	08-JUL-2010 03:53:04	Straylight	56.000	172	Gam Gru	3.0030	13100.	112	43674	No
37	GOM_TRA_1PNPDE20100708_041457_00000442091_00033_43674_5047.N1	08-JUL-2010 04:14:57	Bright	43.500	168	17Zet Aql	2.9860	11000.	87	43674	No
38	GOM_TRA_1PNPDE20100708_042555_00000462091_00033_43674_5048.N1	08-JUL-2010 04:25:55	Bright	45.500	144	18Del Cyg	2.8600	11000.	91	43674	No
39	GOM_TRA_1PNPDE20100708_042857_00000572091_00033_43674_5049.N1	08-JUL-2010 04:28:57	Bright	56.500	19	50Alp Cyg	1.2460	10500.	113	43674	No
40	GOM_TRA_1PNPDE20100708_043307_00000452091_00033_43674_5050.N1	08-JUL-2010 04:33:07	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	43674	No
41	GOM_TRA_1PNPDE20100708_044038_00000512091_00033_43674_5064.N1	08-JUL-2010 04:40:38	Bright	50.500	74	11Bet Cas	2.2680	6600.0	101	43674	No
42	GOM_TRA_1PNPDE20100708_044234_00000462091_00033_43674_5065.N1	08-JUL-2010 04:42:34	Bright	46.000	110	37Del Cas	2.6780	8900.0	92	43674	No
43	GOM_TRA_1PNPDE20100708_044927_00000552091_00033_43674_5066.N1	08-JUL-2010 04:49:27	Bright	54.500	73	57Gam1And	2.2600	13100.	109	43674	No
44	GOM_TRA_1PNPDE20100708_045208_00000312091_00033_43674_5067.N1	08-JUL-2010 04:52:08	Tw_i_and_stray	31.000	53	43Bet And	2.0480	3300.0	62	43674	No
45	GOM_TRA_1PNPDE20100708_045707_00000632091_00033_43674_5068.N1	08-JUL-2010 04:57:07	Dark	63.000	50	13Alp Ari	2.0070	4250.0	126	43674	No
46	GOM_TRA_1PNPDE20100708_050215_00000452091_00033_43674_5069.N1	08-JUL-2010 05:02:15	Dark	44.500	94	92Alp Cet	2.5260	3100.0	89	43674	No
47	GOM_TRA_1PNPDE20100708_051940_00000312091_00034_43675_5070.N1	08-JUL-2010 05:19:40	Dark	31.000	52	16Bet Cet	2.0370	4500.0	62	43675	No
48	GOM_TRA_1PNPDE20100708_052229_00000592091_00034_43675_5071.N1	08-JUL-2010 05:22:29	Dark	58.500	84	Alp Phe	2.3970	4500.0	117	43675	No
49	GOM_TRA_1PNPDE20100708_052846_00000522091_00034_43675_5072.N1	08-JUL-2010 05:28:46	Straylight	51.500	63	Bet Gru	2.1500	2800.0	103	43675	No
50	GOM_TRA_1PNPDE20100708_053132_00000802091_00034_43675_5073.N1	08-JUL-2010 05:31:32	Straylight	80.000	18	24Alp PsA	1.1660	9700.0	160	43675	No
51	GOM_TRA_1PNPDE20100708_053341_00000542091_00034_43675_5074.N1	08-JUL-2010 05:33:41	Straylight	53.500	172	Gam Gru	3.0030	13100.	107	43675	No
52	GOM_TRA_1PNPDE20100708_055533_00000432091_00034_43675_5075.N1	08-JUL-2010 05:55:33	Bright	42.500	168	17Zet Aql	2.9860	11000.	85	43675	No
53	GOM_TRA_1PNPDE20100708_060630_00000452091_00034_43675_5076.N1	08-JUL-2010 06:06:30	Bright	45.000	144	18Del Cyg	2.8600	11000.	90	43675	No
54	GOM_TRA_1PNPDE20100708_060932_00000582091_00034_43675_5077.N1	08-JUL-2010 06:09:32	Bright	57.500	19	50Alp Cyg	1.2460	10500.	115	43675	No
55	GOM_TRA_1PNPDE20100708_061343_00000442091_00034_43675_5078.N1	08-JUL-2010 06:13:43	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	43675	No
56	GOM_TRA_1PNPDE20100708_204653_00000432091_00043_43684_5192.N1	08-JUL-2010 20:46:53	Bright	43.000	103	38Zet Sgr	2.6000	9700.0	86	43684	No
57	GOM_TRA_1PNPDE20100708_204929_00000432091_00043_43684_5193.N1	08-JUL-2010 20:49:29	Bright	42.500	155	41Pi Sgr	2.9000	6600.0	85	43684	No
58	GOM_TRA_1PNPDE20100708_210053_00000442091_00043_43684_5194.N1	08-JUL-2010 21:00:53	Bright	43.500	168	17Zet Aql	2.9860	11000.	87	43684	No
59	GOM_TRA_1PNPDE20100708_210757_00000402091_00043_43684_5195.N1	08-JUL-2010 21:07:57	Bright	40.000	5	3Alp Lyr	0.033000	11000.	80	43684	No
60	GOM_TRA_1PNPDE20100708_211101_00000362091_00043_43684_5196.N1	08-JUL-2010 21:11:01	Bright	35.500	69	33Gam Dra	2.2310	3800.0	71	43684	No
61	GOM_TRA_1PNPDE20100708_211901_00000422091_00043_43684_5197.N1	08-JUL-2010 21:19:01	Bright	41.500	89	5Alp Cep	2.4510	8000.0	83	43684	No
62	GOM_TRA_1PNPDE20100708_212738_00000482091_00043_43684_5198.N1	08-JUL-2010 21:27:38	Bright	48.000	76	27Gam Cas	2.3000	30000.	96	43684	No
63	GOM_TRA_1PNPDE20100708_213202_00000582091_00043_43684_5199.N1	08-JUL-2010 21:32:02	Bright	58.000	160	23Gam Per	2.9300	4700.0	116	43684	No
64	GOM_TRA_1PNPDE20100708_213356_00000362091_00043_43684_5200.N1	08-JUL-2010 21:33:56	Bright	35.500	175	39Del Per	3.0100	19400.	71	43684	No

65	GOM_TRA_1PNPDE20100708_213606_000000602091_00043_43684_5201.N1	08-JUL-2010 21:36:06	Bright	60.000	79	26Bet Per	2.3100	13100.	120	43684	No
66	GOM_TRA_1PNPDE20100708_213844_000000432091_00043_43684_5202.N1	08-JUL-2010 21:38:44	Bright	43.000	150	44Zet Per	2.8900	28000.	86	43684	No
67	GOM_TRA_1PNPDE20100708_214109_000000422091_00043_43684_5203.N1	08-JUL-2010 21:41:09	Twilight	42.000	146	25Eta Tau	2.8730	15200.	84	43684	No
68	GOM_TRA_1PNPDE20100708_214820_000000552091_00043_43684_5204.N1	08-JUL-2010 21:48:20	Dark	55.000	94	92Alp Cet	2.5260	3100.0	110	43684	No
69	GOM_TRA_1PNPDE20100708_220027_000000402091_00043_43684_5216.N1	08-JUL-2010 22:00:27	Dark	40.000	157	The1Eri	2.9060	9300.0	80	43684	No
70	GOM_TRA_1PNPDE20100708_220839_000000512091_00044_43685_5217.N1	08-JUL-2010 22:08:39	Dark	51.000	84	Alp Phe	2.3970	4500.0	102	43685	No
71	GOM_TRA_1PNPDE20100708_221454_000000632091_00044_43685_5218.N1	08-JUL-2010 22:14:54	Straylight	63.000	63	Bet Gru	2.1500	2800.0	126	43685	No
72	GOM_TRA_1PNPDE20100708_221641_000000472091_00044_43685_5219.N1	08-JUL-2010 22:16:41	Straylight	46.500	31	Alp Gru	1.7340	15200.	93	43685	No
73	GOM_TRA_1PNPDE20100708_221821_000000402091_00044_43685_5220.N1	08-JUL-2010 22:18:21	Straylight	39.500	45	Alp Pav	1.9400	26000.	79	43685	No
74	GOM_TRA_1PNPDE20100708_222729_000000412091_00044_43685_5221.N1	08-JUL-2010 22:27:29	Bright	40.500	103	38Zet Sgr	2.6000	9700.0	81	43685	No
75	GOM_TRA_1PNPDE20100708_223005_000000432091_00044_43685_5222.N1	08-JUL-2010 22:30:05	Bright	42.500	155	41Pi Sgr	2.9000	6600.0	85	43685	No
76	GOM_TRA_1PNPDE20100708_224129_000000432091_00044_43685_5223.N1	08-JUL-2010 22:41:29	Bright	43.000	168	17Zet Aql	2.9860	11000.	86	43685	No
77	GOM_TRA_1PNPDE20100708_224832_000000392091_00044_43685_5224.N1	08-JUL-2010 22:48:32	Bright	39.000	5	3Alp Lyr	0.033000	11000.	78	43685	No
78	GOM_TRA_1PNPDE20100708_225137_000000382091_00044_43685_5225.N1	08-JUL-2010 22:51:37	Bright	38.000	69	33Gam Dra	2.2310	3800.0	76	43685	No
79	GOM_TRA_1PNPDE20100708_225936_000000412091_00044_43685_5226.N1	08-JUL-2010 22:59:36	Bright	41.000	89	5Alp Cep	2.4510	8000.0	82	43685	No
80	GOM_TRA_1PNPDE20100708_230813_000000472091_00044_43685_5227.N1	08-JUL-2010 23:08:13	Bright	46.500	76	27Gam Cas	2.3000	30000.	93	43685	No
81	GOM_TRA_1PNPDE20100708_231238_000000582091_00044_43685_5228.N1	08-JUL-2010 23:12:38	Bright	58.000	160	23Gam Per	2.9300	4700.0	116	43685	No
82	GOM_TRA_1PNPDE20100708_231432_000000552091_00044_43685_5229.N1	08-JUL-2010 23:14:32	Bright	55.000	175	39Del Per	3.0100	19400.	110	43685	No
83	GOM_TRA_1PNPDE20100708_231642_000000602091_00044_43685_5230.N1	08-JUL-2010 23:16:42	Bright	60.000	79	26Bet Per	2.3100	13100.	120	43685	No
84	GOM_TRA_1PNPDE20100708_231920_000000422091_00044_43685_5231.N1	08-JUL-2010 23:19:20	Bright	41.500	150	44Zet Per	2.8900	28000.	83	43685	No
85	GOM_TRA_1PNPDE20100708_232145_000000432091_00044_43685_5232.N1	08-JUL-2010 23:21:45	Twilight	42.500	146	25Eta Tau	2.8730	15200.	85	43685	No
86	GOM_TRA_1PNPDE20100708_232856_000000552091_00044_43685_5233.N1	08-JUL-2010 23:28:56	Dark	55.000	94	92Alp Cet	2.5260	3100.0	110	43685	No
87	GOM_TRA_1PNPDE20100708_234104_000000412091_00044_43685_5241.N1	08-JUL-2010 23:41:04	Dark	40.500	157	The1Eri	2.9060	9300.0	81	43685	No
88	GOM_TRA_1PNPDE20100708_234715_000000512091_00045_43686_5242.N1	08-JUL-2010 23:47:15	Dark	51.000	9	Alp Eri	0.45300	24000.	102	43686	No
89	GOM_TRA_1PNPDE20100708_234916_000000632091_00045_43686_5243.N1	08-JUL-2010 23:49:16	Dark	62.500	84	Alp Phe	2.3970	4500.0	125	43686	No
90	GOM_TRA_1PNPDE20100708_235531_000000512091_00045_43686_5244.N1	08-JUL-2010 23:55:31	Straylight	51.000	63	Bet Gru	2.1500	2800.0	102	43686	No
91	GOM_TRA_1PNPDE20100708_235718_000000572091_00045_43686_5245.N1	08-JUL-2010 23:57:18	Straylight	57.000	31	Alp Gru	1.7340	15200.	114	43686	No
92	GOM_TRA_1PNPDE20100708_235857_000000412091_00045_43686_5246.N1	08-JUL-2010 23:58:57	Straylight	40.500	45	Alp Pav	1.9400	26000.	81	43686	No

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



4. Overview of dark signal processing per product

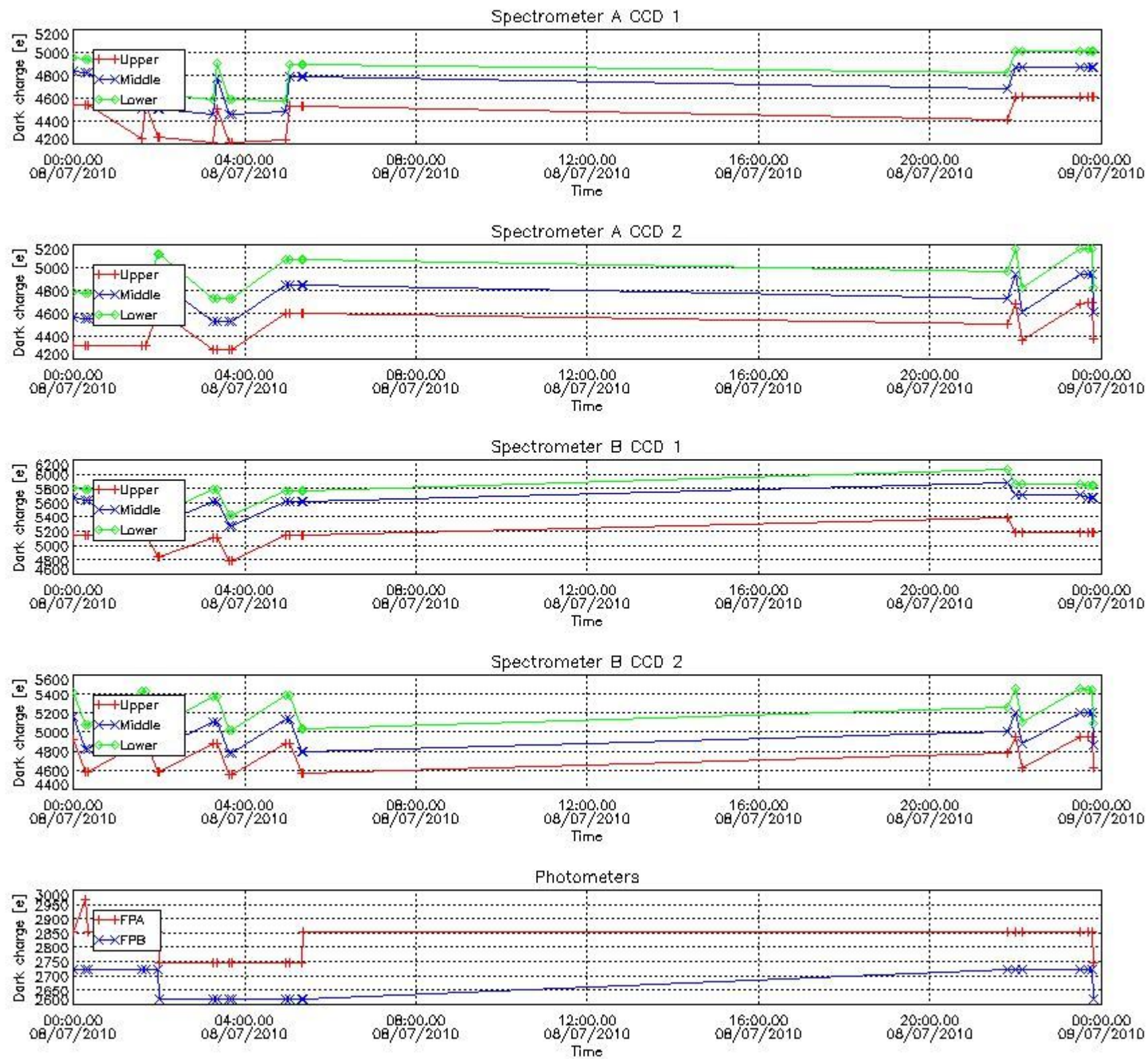
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20100708_204653_000000432091_00043_43684_5192.N1	DC map used
GOM_TRA_1PNPDE20100708_204929_000000432091_00043_43684_5193.N1	DC map used
GOM_TRA_1PNPDE20100708_210053_000000442091_00043_43684_5194.N1	DC map used
GOM_TRA_1PNPDE20100708_210757_000000402091_00043_43684_5195.N1	DC map used
GOM_TRA_1PNPDE20100708_211101_000000362091_00043_43684_5196.N1	DC map used
GOM_TRA_1PNPDE20100708_211901_000000422091_00043_43684_5197.N1	DC map used
GOM_TRA_1PNPDE20100708_212738_000000482091_00043_43684_5198.N1	DC map used
GOM_TRA_1PNPDE20100708_213202_000000582091_00043_43684_5199.N1	DC map used
GOM_TRA_1PNPDE20100708_213356_000000362091_00043_43684_5200.N1	DC map used
GOM_TRA_1PNPDE20100708_213606_000000602091_00043_43684_5201.N1	DC map used
GOM_TRA_1PNPDE20100708_213844_000000432091_00043_43684_5202.N1	DC map used
GOM_TRA_1PNPDE20100708_214109_000000422091_00043_43684_5203.N1	DC map used
GOM_TRA_1PNPDE20100708_214820_000000552091_00043_43684_5204.N1	DC map used

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



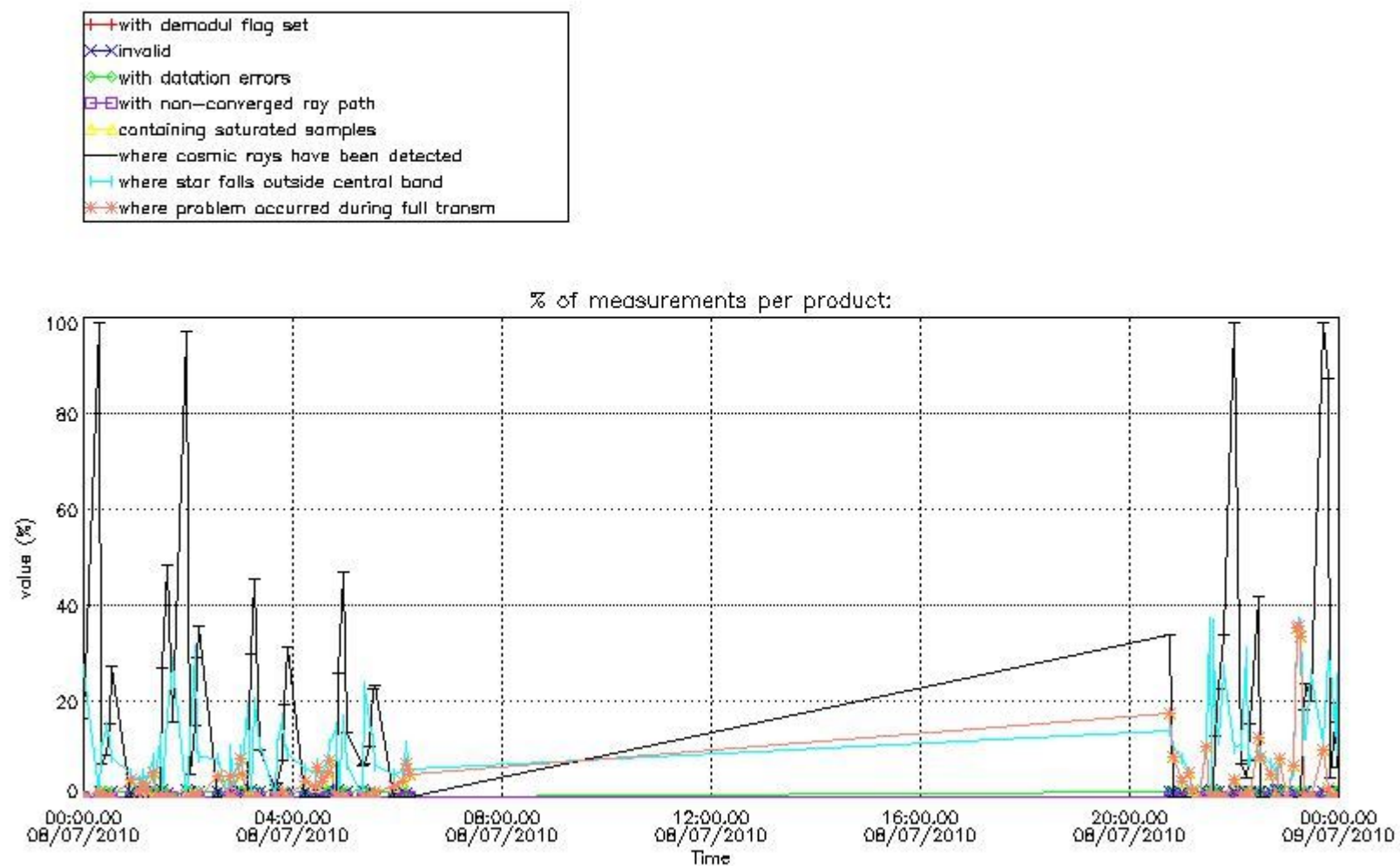
5. Demodulation flag and quality information monitoring

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.

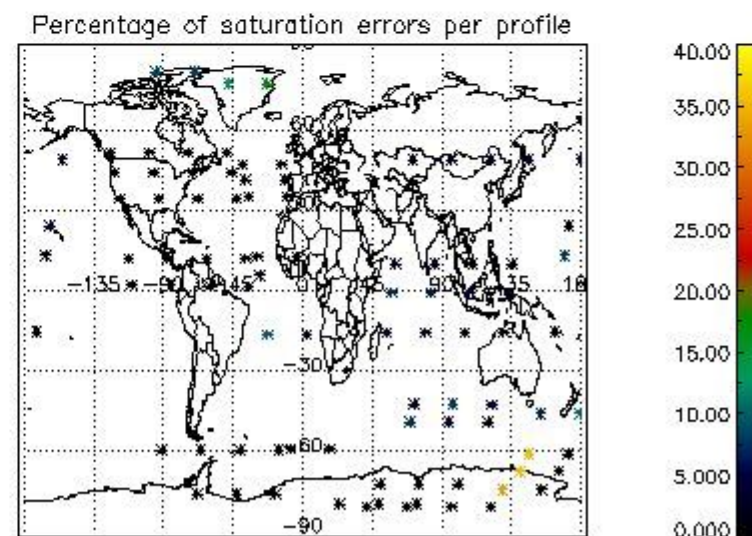
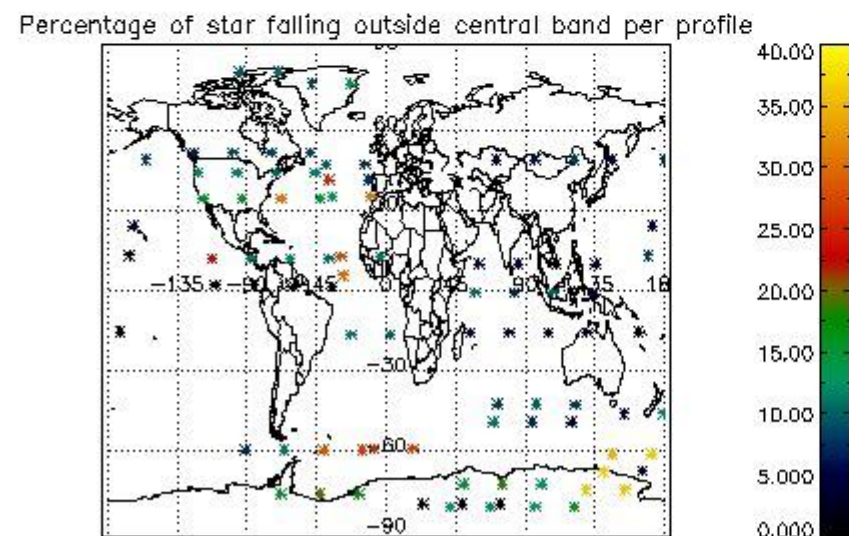
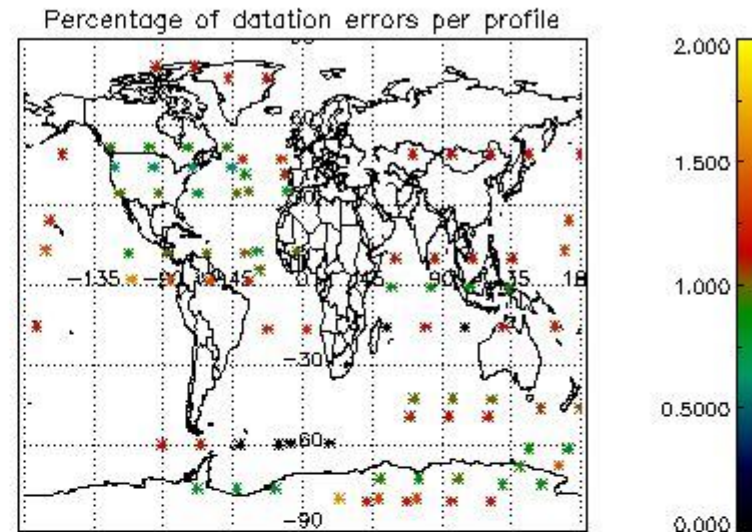
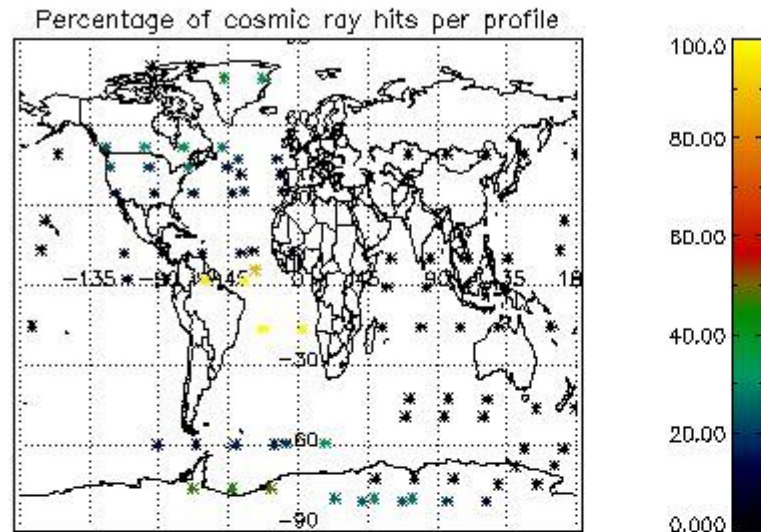
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	41.3043 %
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)



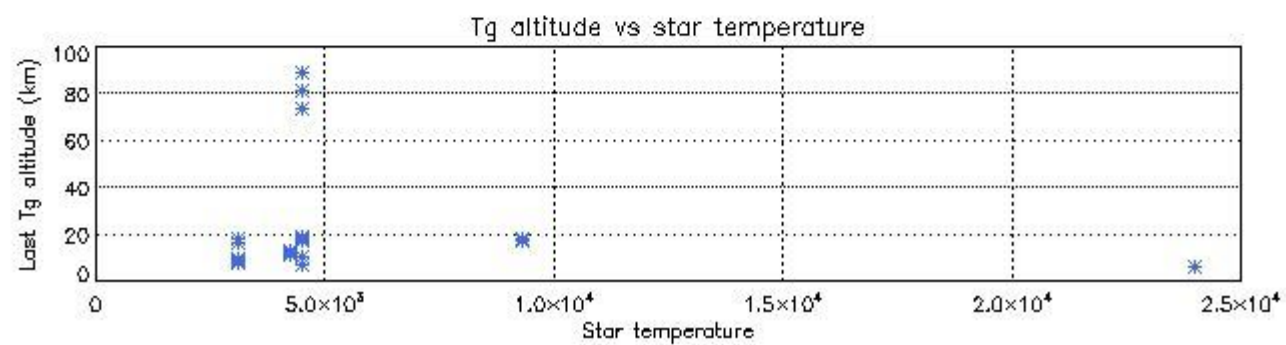
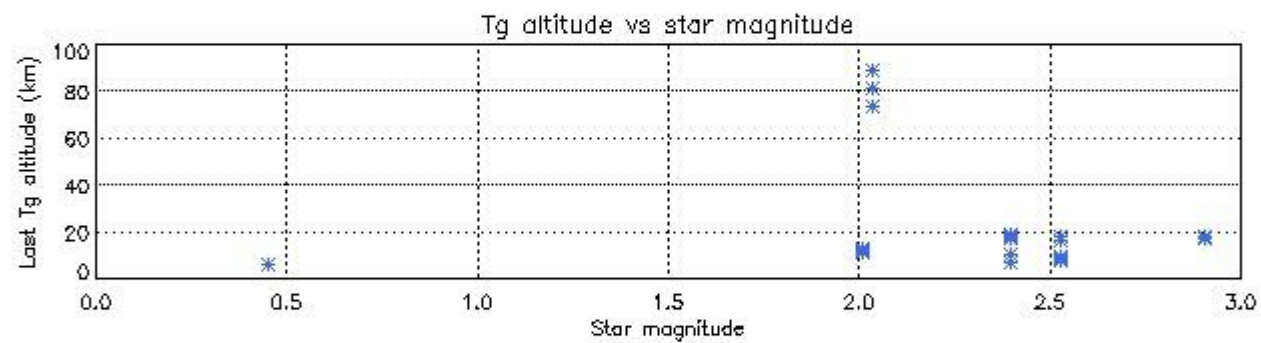
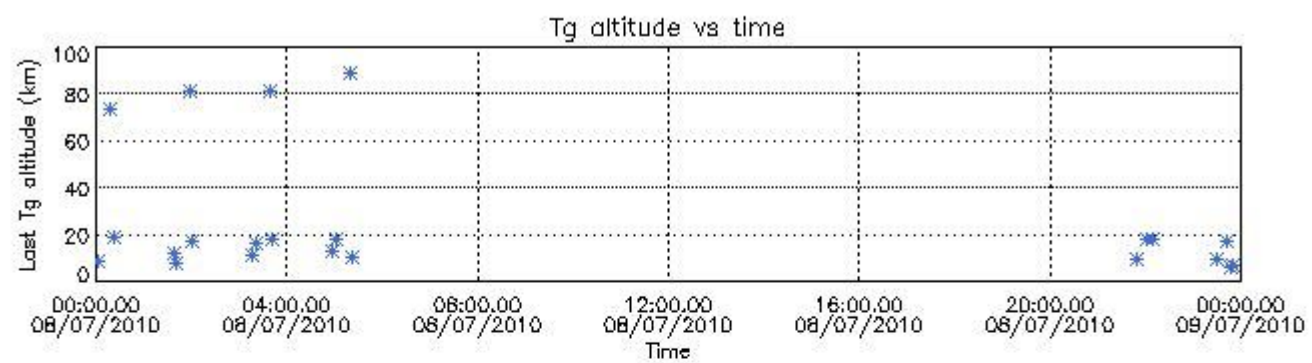
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	25.460	19.085	15.139
St. deviation:	27.324	6.3374	0.61104
Maximum:	88.614	28.854	15.572
Minimum:	6.3728	3.7669	14.707
Number of data:	22.000	47.000	2.0000

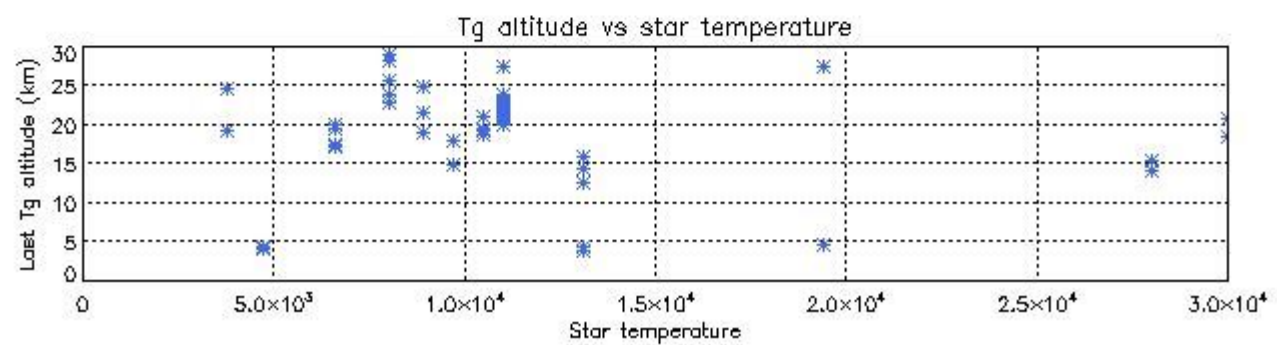
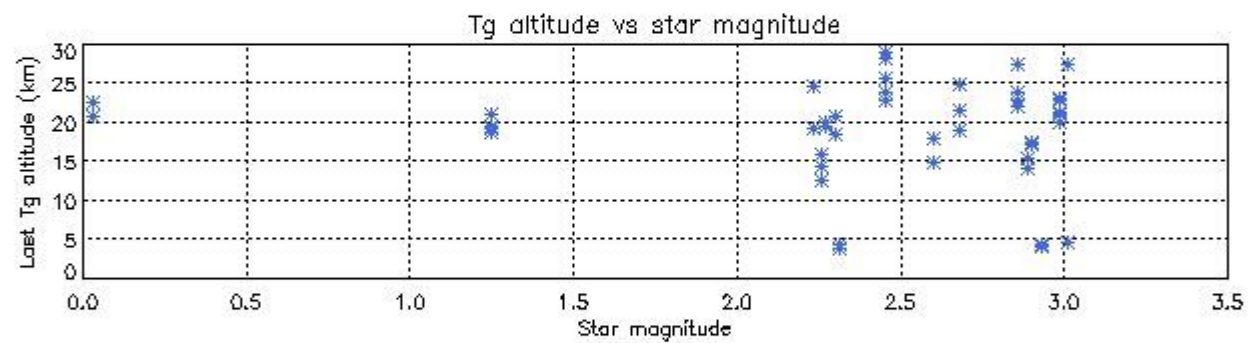
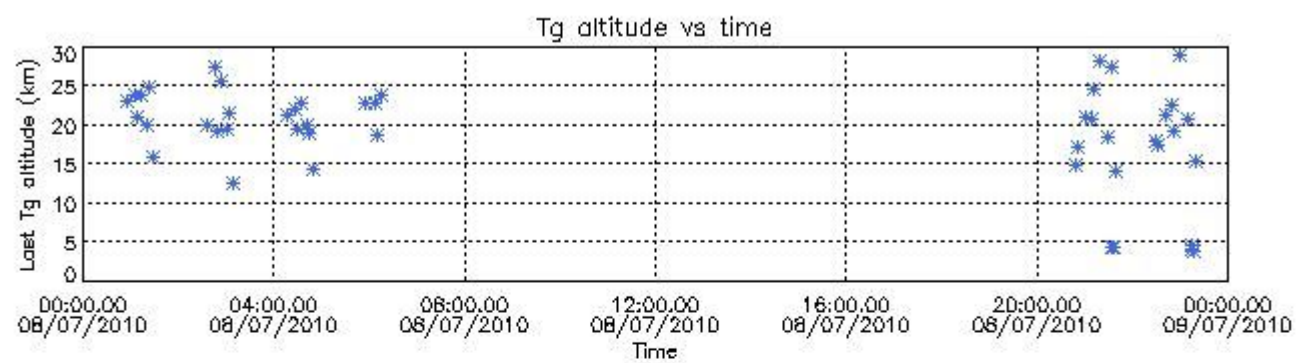
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



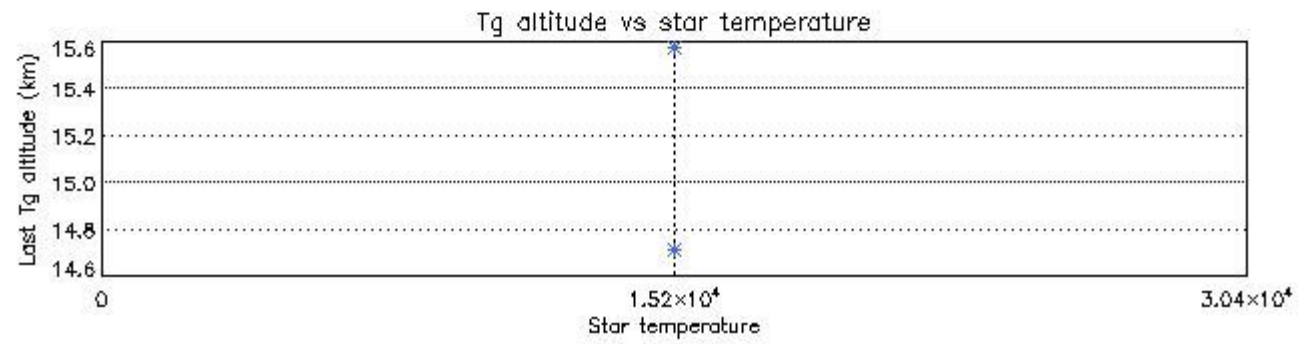
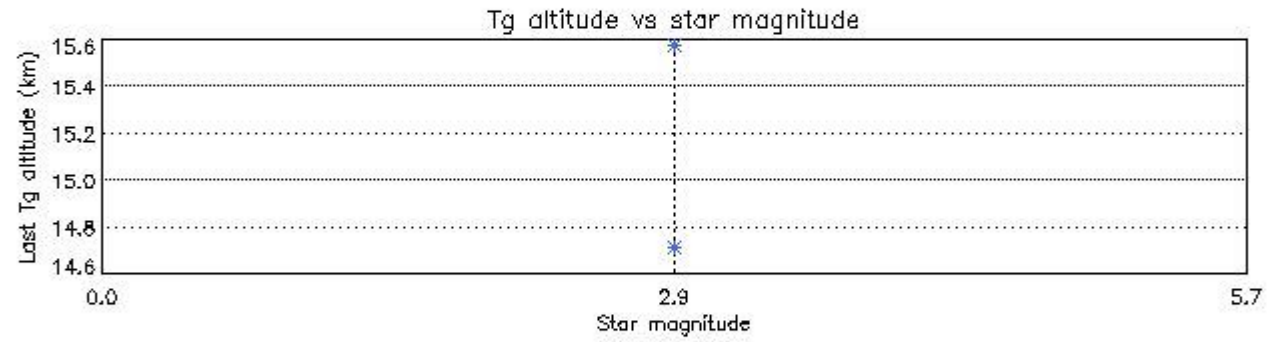
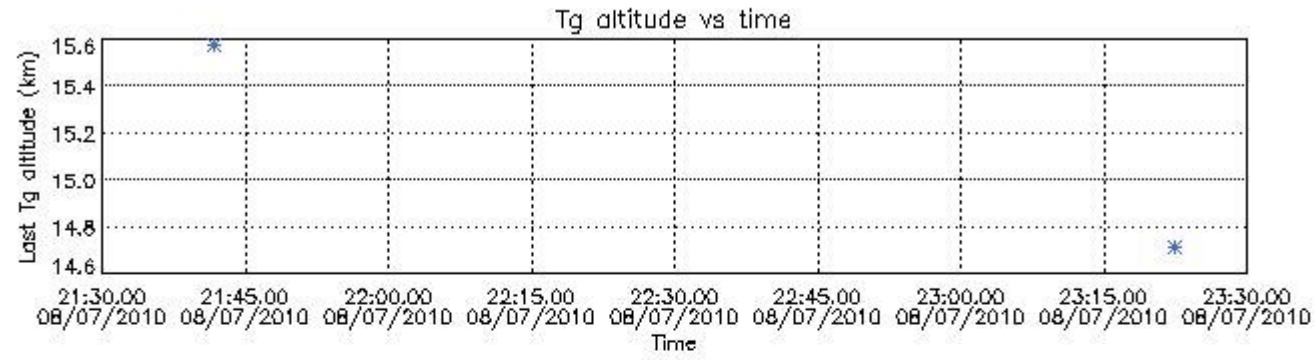
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

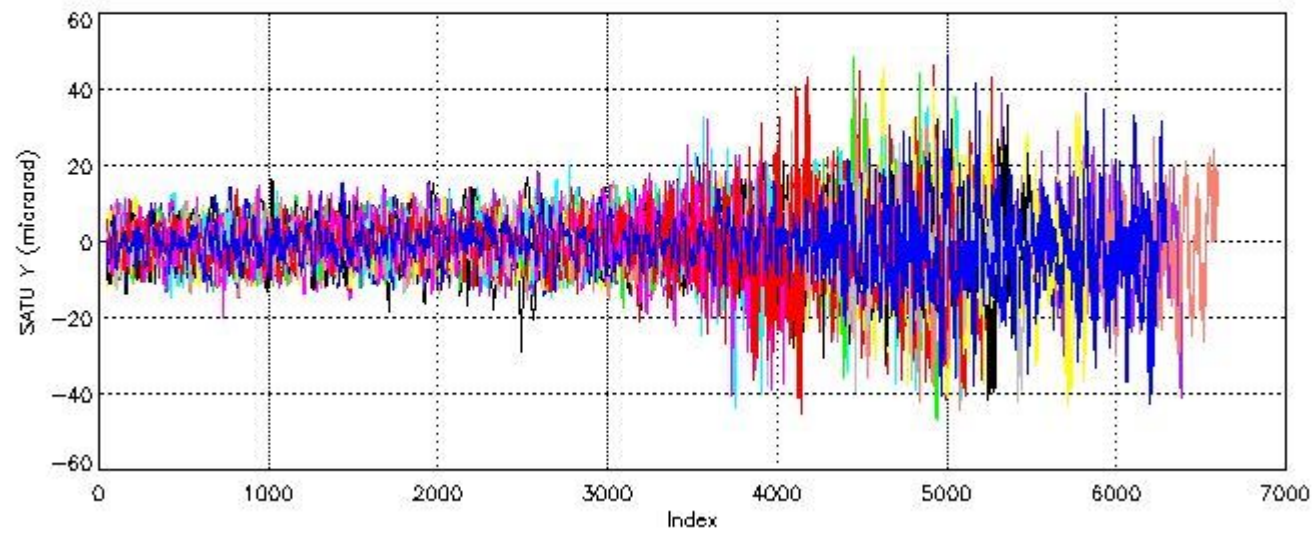
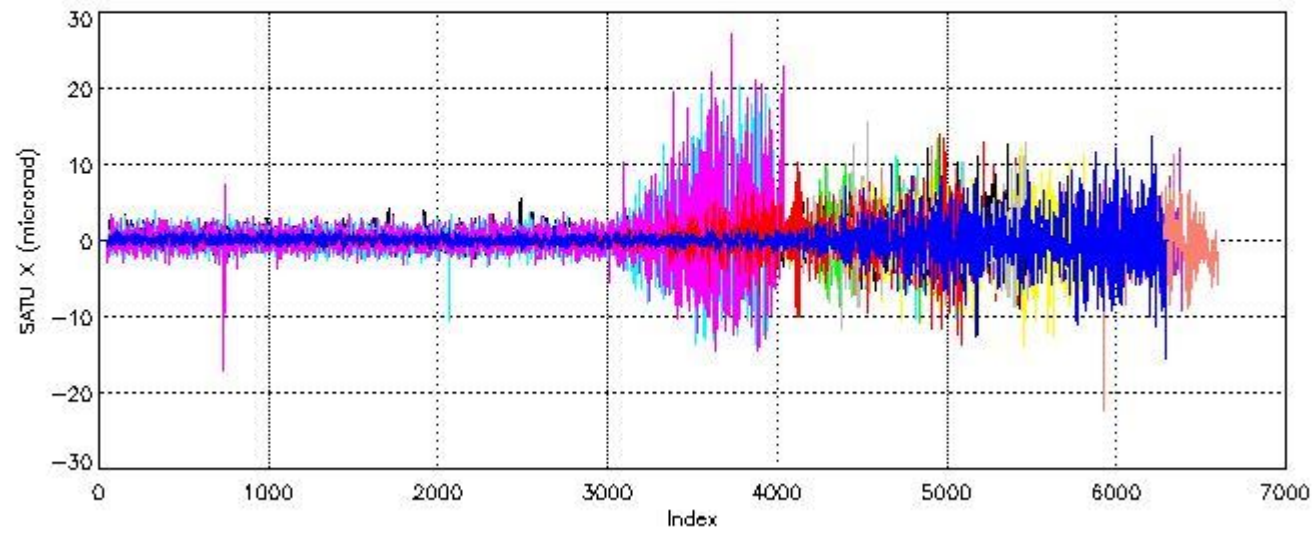


7. Star Acquisition and Tracking Unit (SATU)

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:	0.22441	-0.56540	0.23011	-0.50653
St. deviation:	0.55773	4.4084	0.97840	4.0233
Maximum:	7.4000	16.200	6.6000	15.400
Minimum:	-17.100	-19.900	-5.4000	-16.200

Number of data:	27500.	27500.	50500.	50500.
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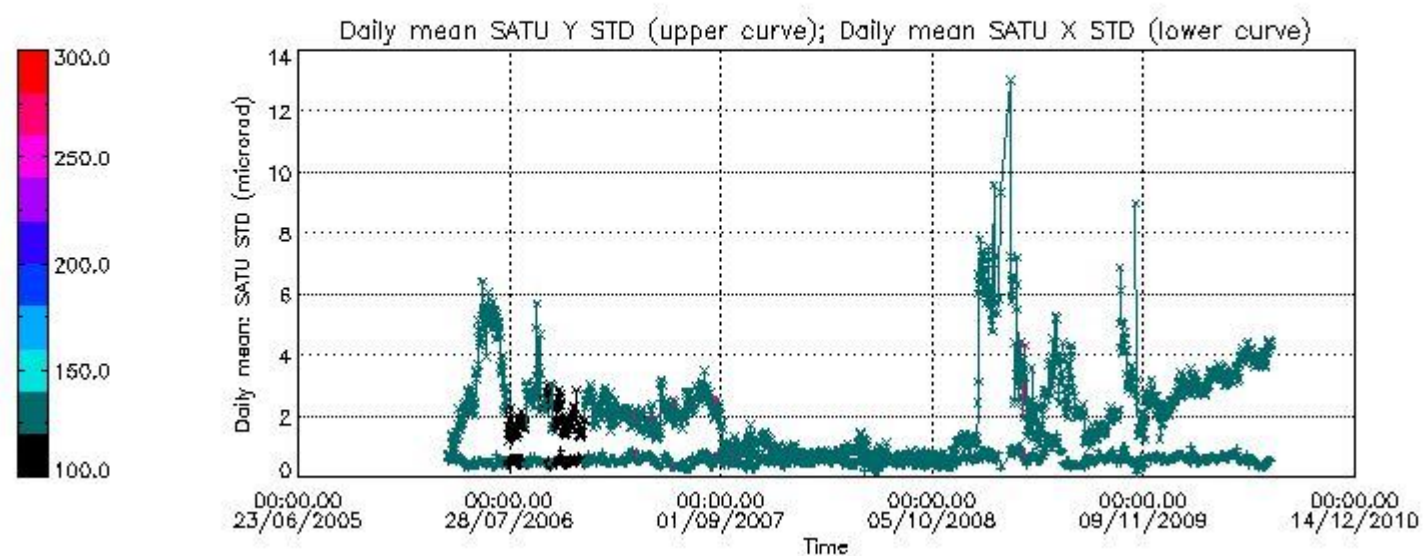
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

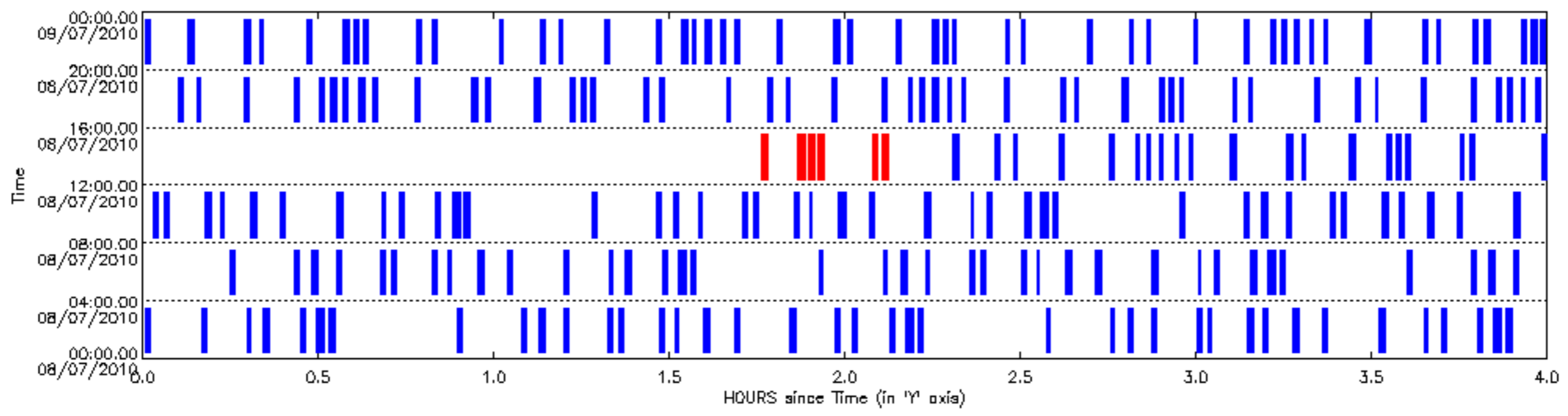
Lower curve: STD of SATU X axis

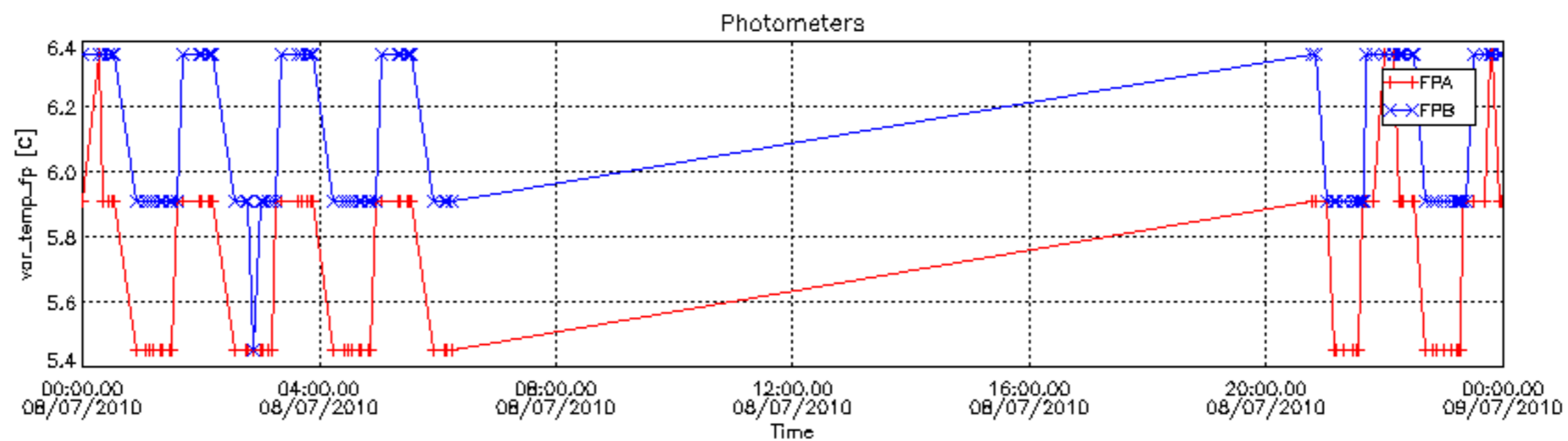
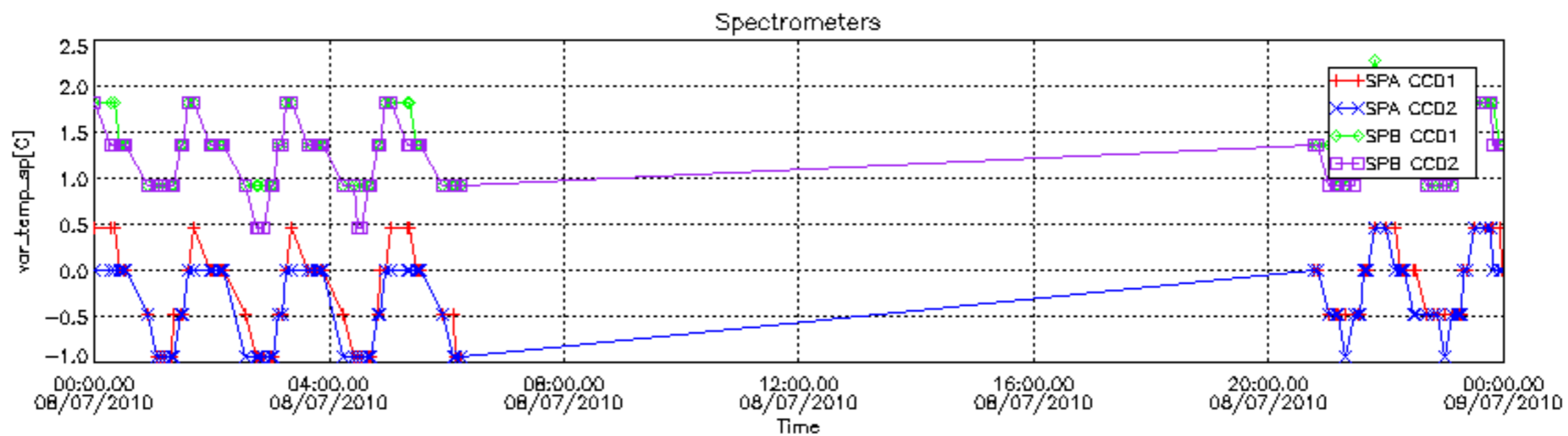


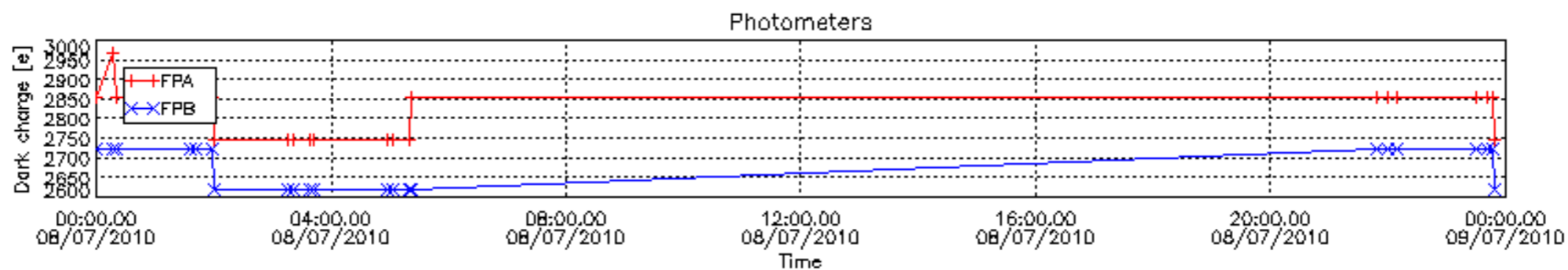
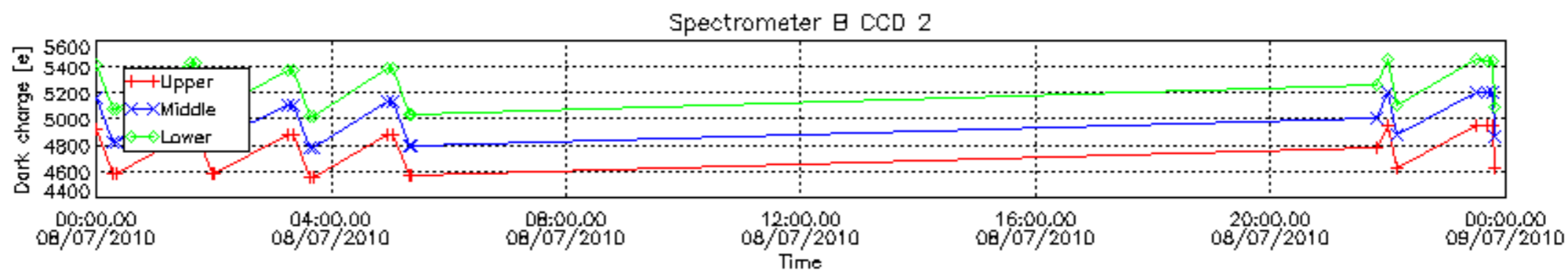
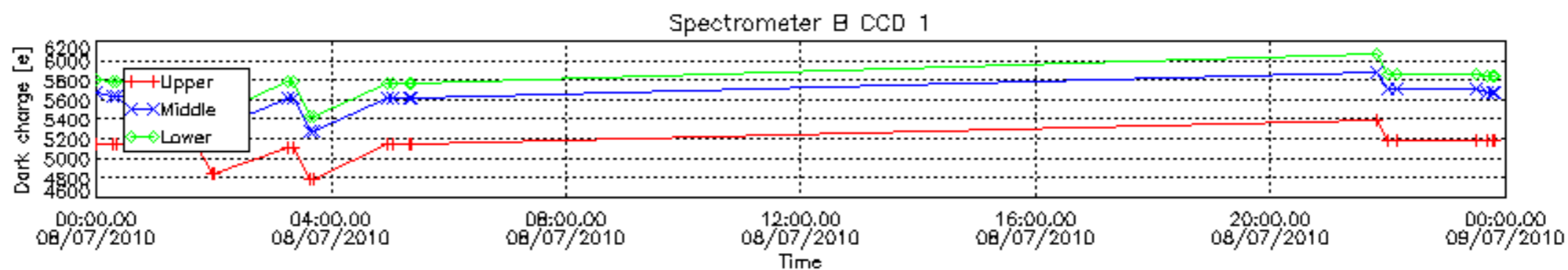
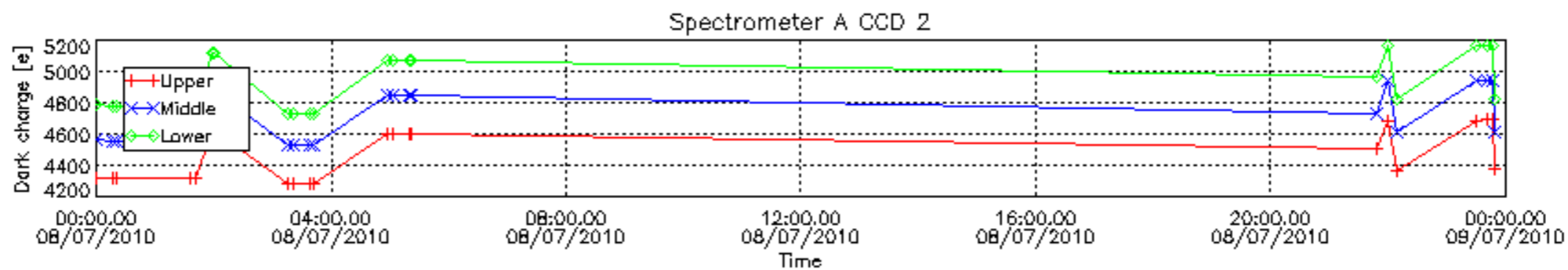
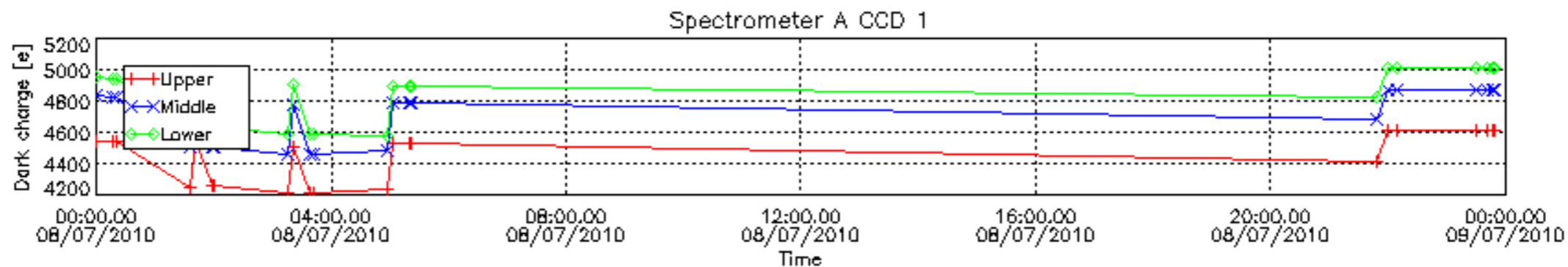
8. Auxiliary Data Files used for the production reported in section 2.4

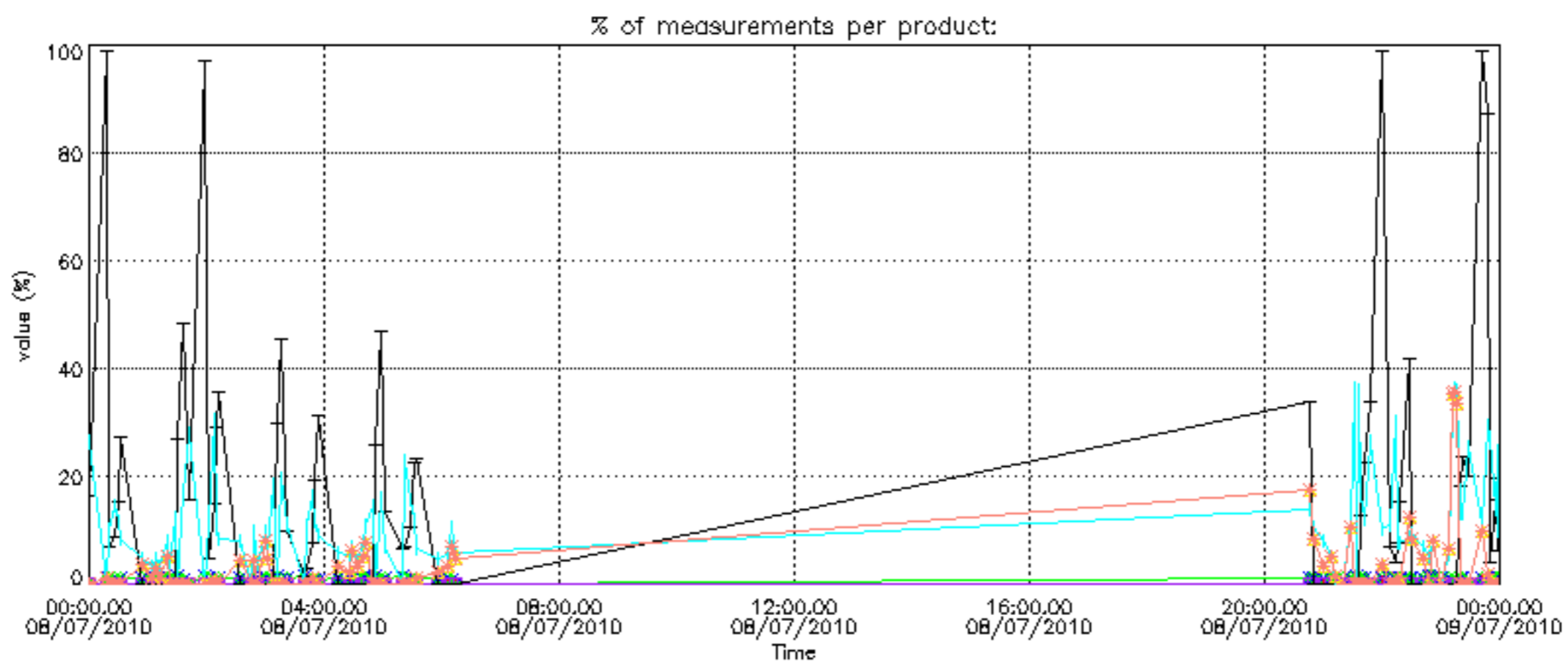
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	08-JUL-2010 00:00:25
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100706_092041_20100704_000000_20500101_000000	1	08-JUL-2010 00:00:25
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	08-JUL-2010 00:00:25
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	08-JUL-2010 00:00:25
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	08-JUL-2010 00:00:25
ECMWF_FILE	AUX_ECF_AXNECM20100707_054114_20100707_210000_20100708_090000	1	08-JUL-2010 00:00:25
ECMWF_FILE	AUX_ECF_AXNECM20100707_172116_20100708_030000_20100708_150000	26	08-JUL-2010 03:00:03
ECMWF_FILE	AUX_ECA_AXNECM20100708_052113_20100707_210000_20100708_090000	41	08-JUL-2010 04:40:38
ECMWF_FILE	AUX_ECF_AXNECM20100708_052114_20100708_150000_20100709_030000	56	08-JUL-2010 20:46:53
ECMWF_FILE	AUX_ECF_AXNECM20100708_054112_20100708_210000_20100709_090000	69	08-JUL-2010 22:00:27
OPTIONAL_ECMWF_FILE	MISSING	1	08-JUL-2010 00:00:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100707_222205_000057382091_00029_43670_0703.N1	1	08-JUL-2010 00:00:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100708_000302_000054192091_00030_43671_0704.N1	2	08-JUL-2010 00:17:45
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100708_013840_000041442091_00031_43672_0705.N1	17	08-JUL-2010 01:58:23
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100708_025303_000060572091_00032_43673_0706.N1	26	08-JUL-2010 03:00:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100708_043919_000054192091_00033_43674_0707.N1	41	08-JUL-2010 04:40:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100708_204100_000038252091_00043_43684_0708.N1	56	08-JUL-2010 20:46:53
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100708_215005_000057382091_00043_43684_0709.N1	69	08-JUL-2010 22:00:27
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100708_233102_000057382091_00044_43685_0710.N1	87	08-JUL-2010 23:41:04

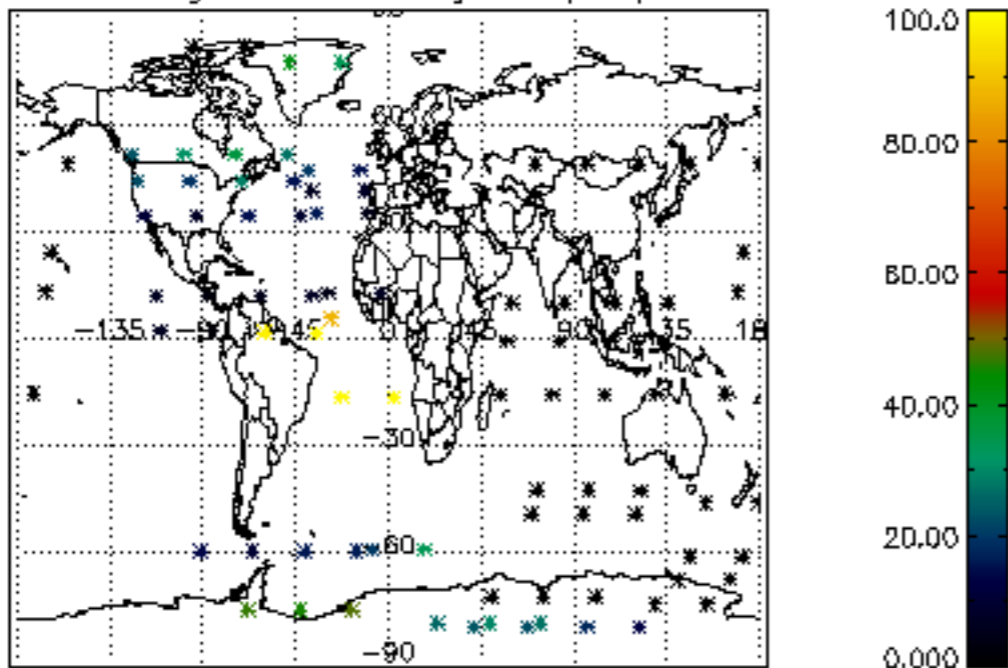




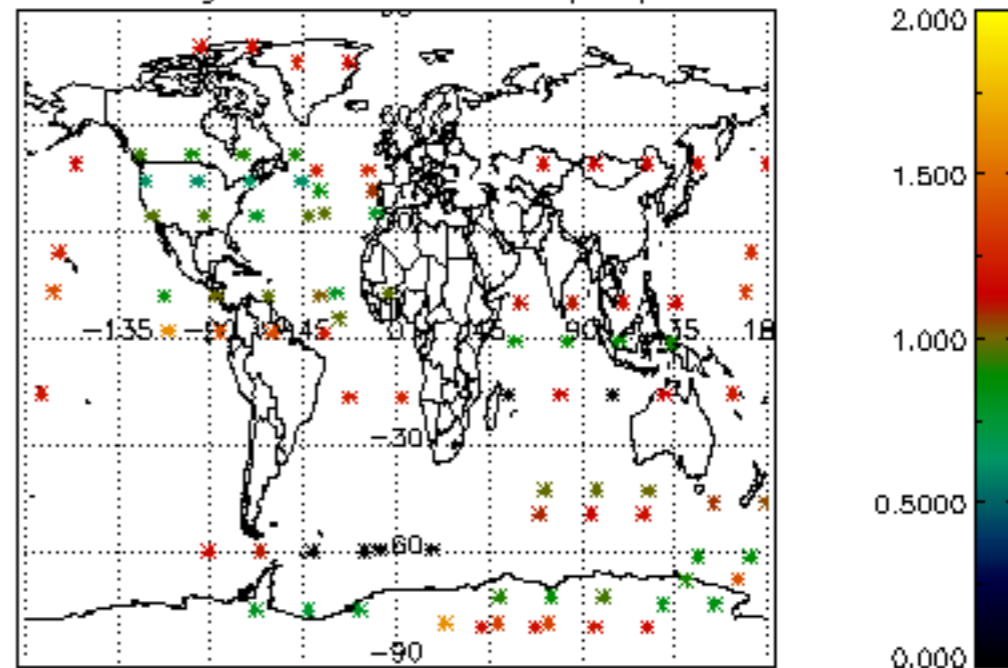




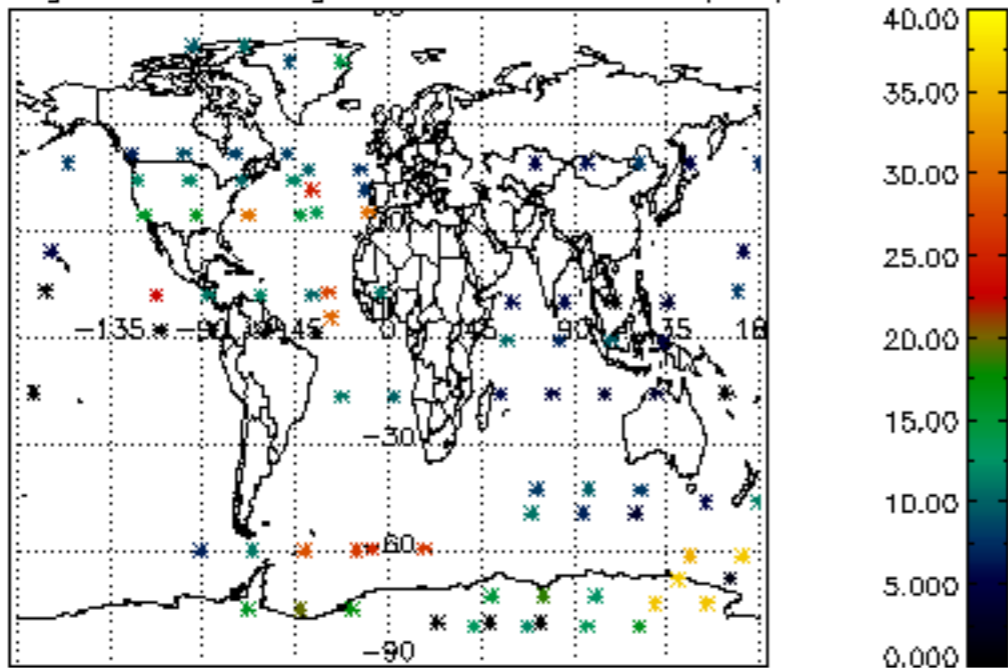
Percentage of cosmic ray hits per profile



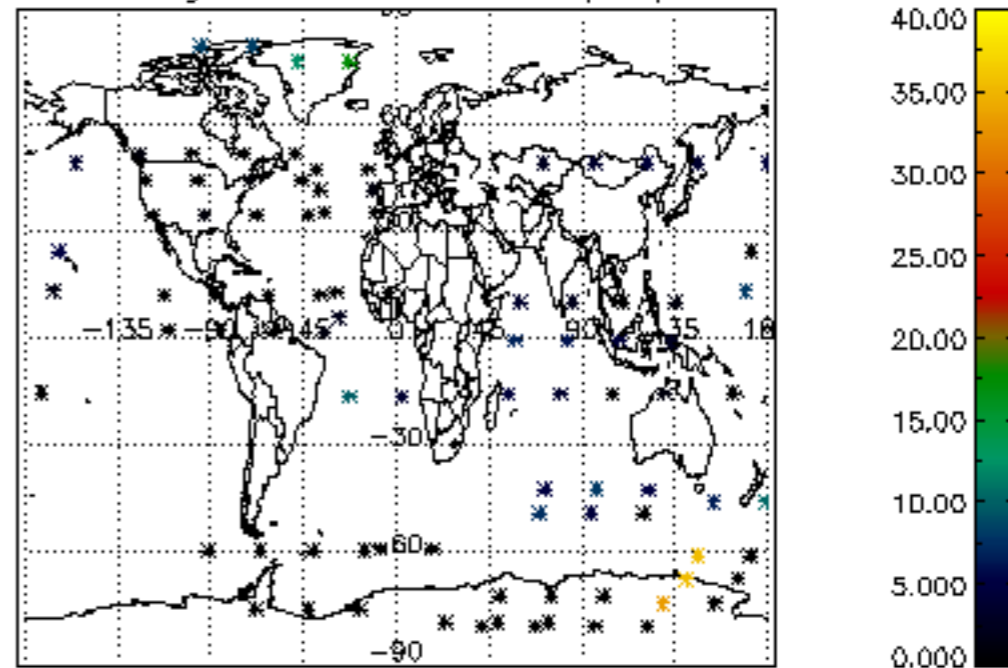
Percentage of datation errors per profile



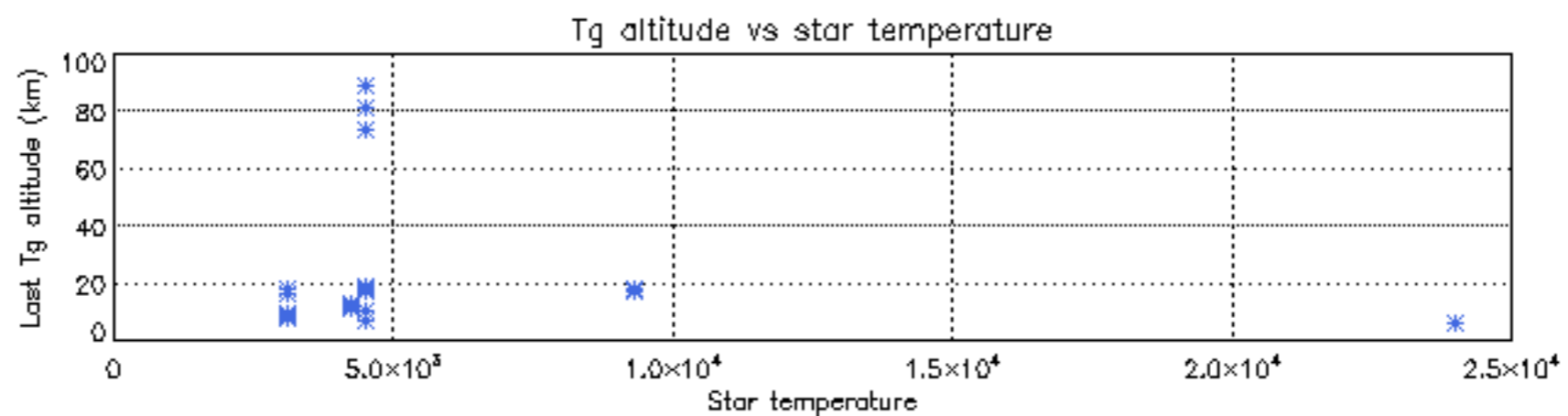
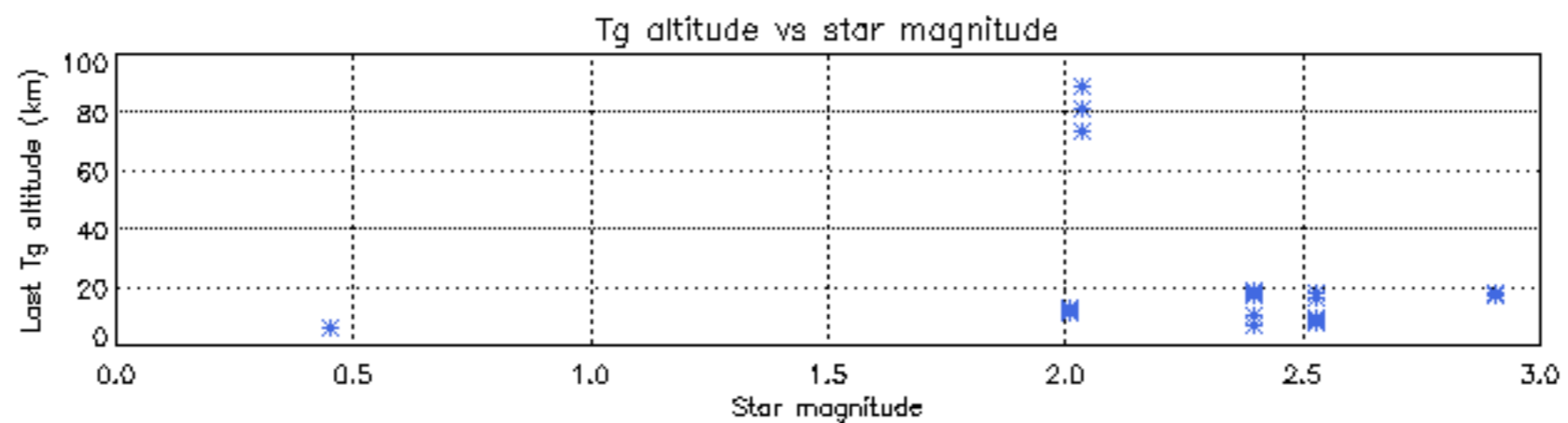
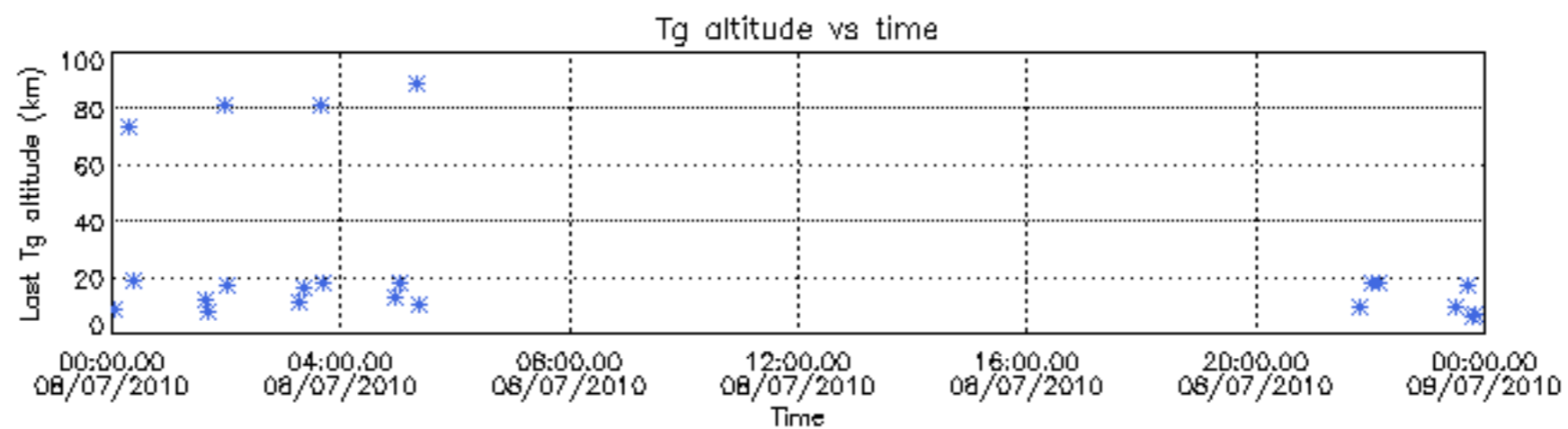
Percentage of star falling outside central band per profile



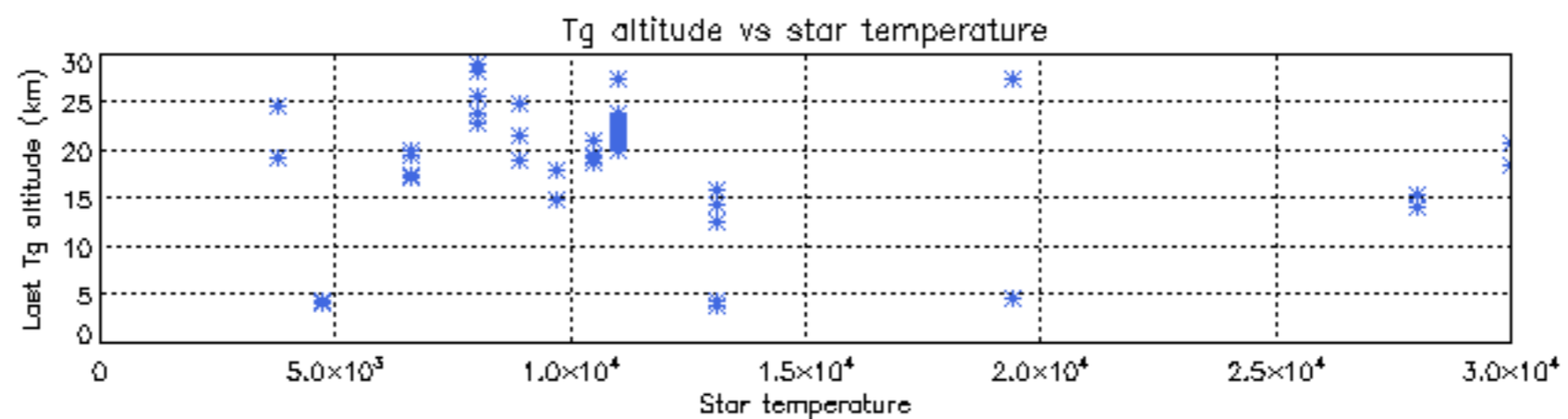
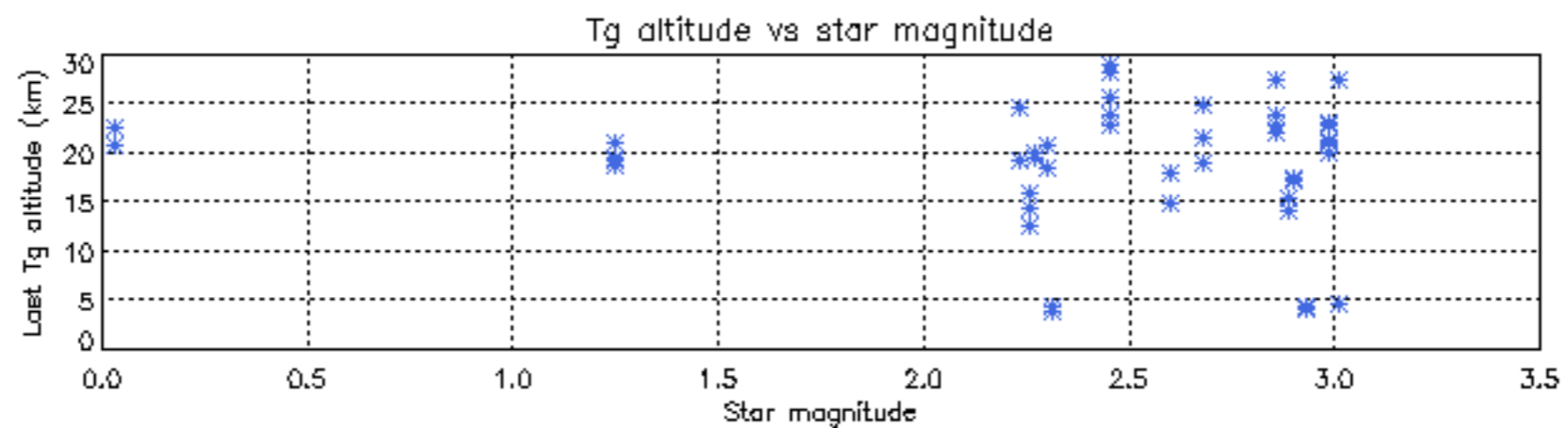
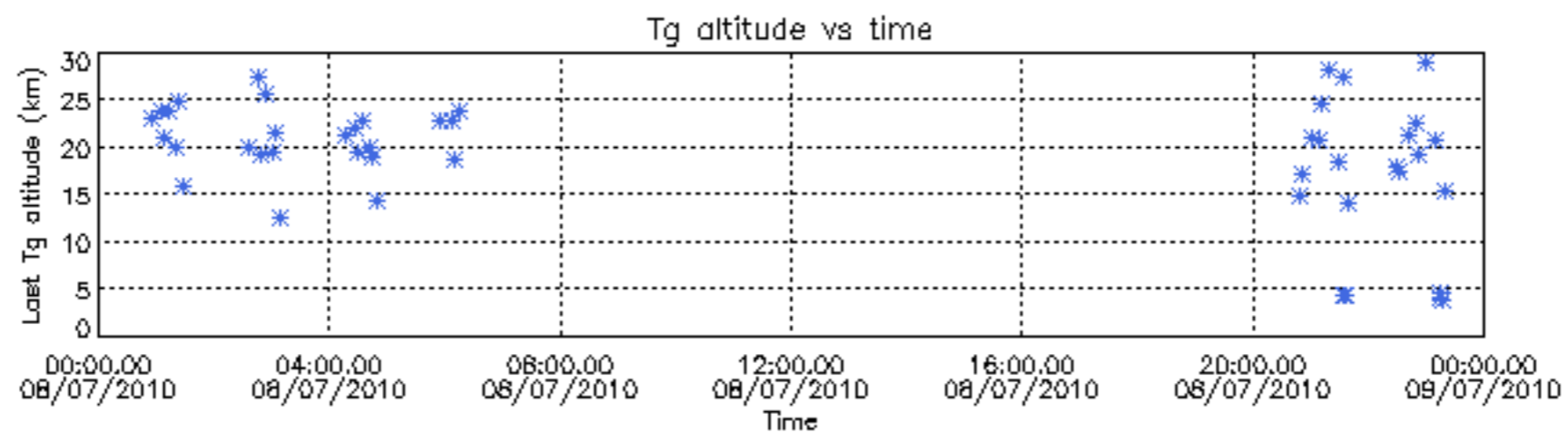
Percentage of saturation errors per profile



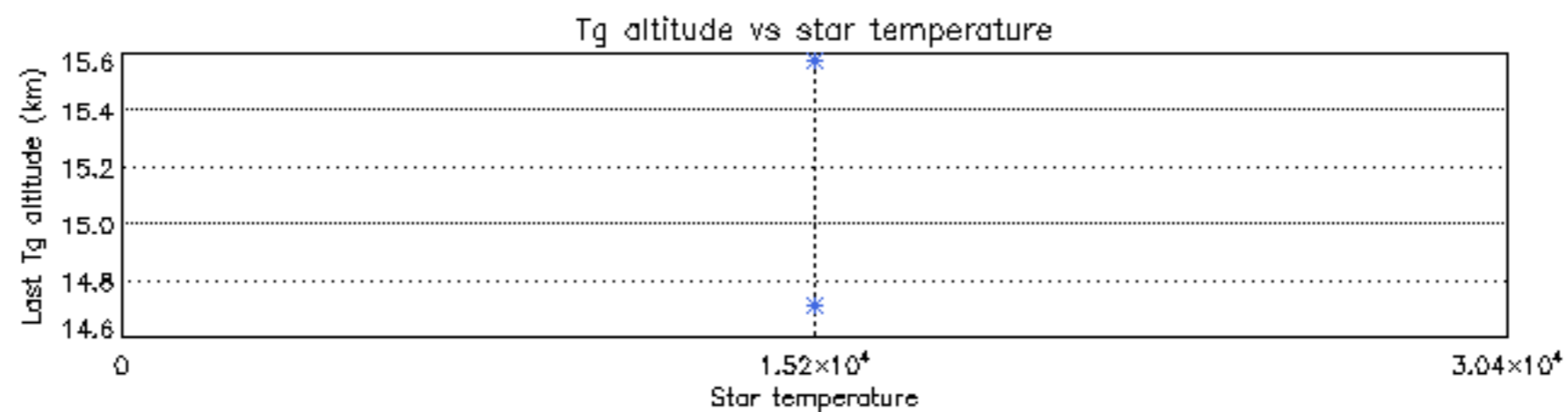
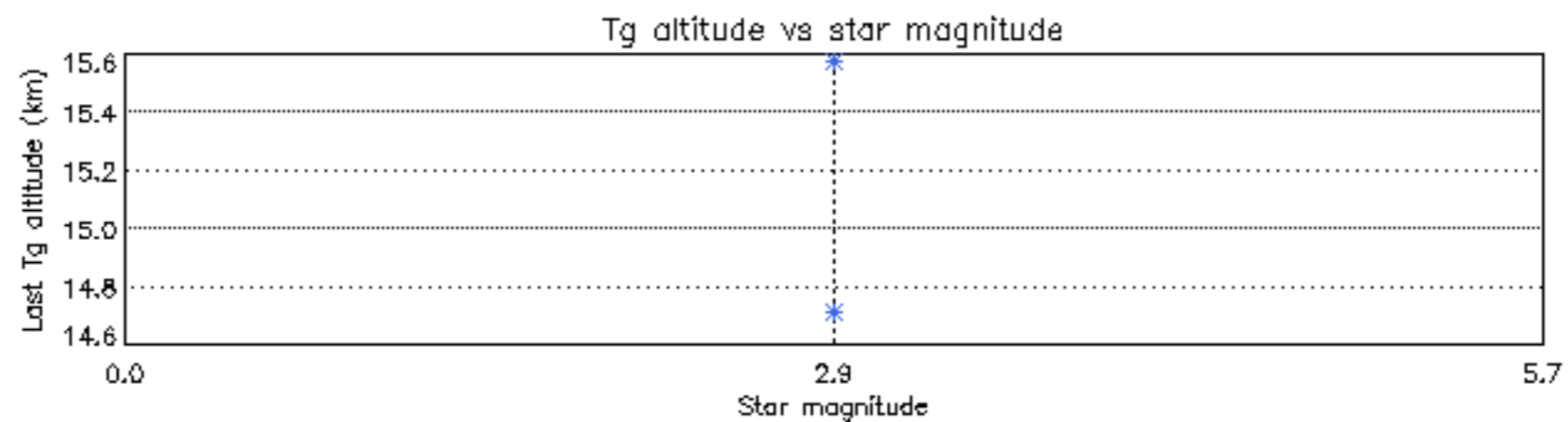
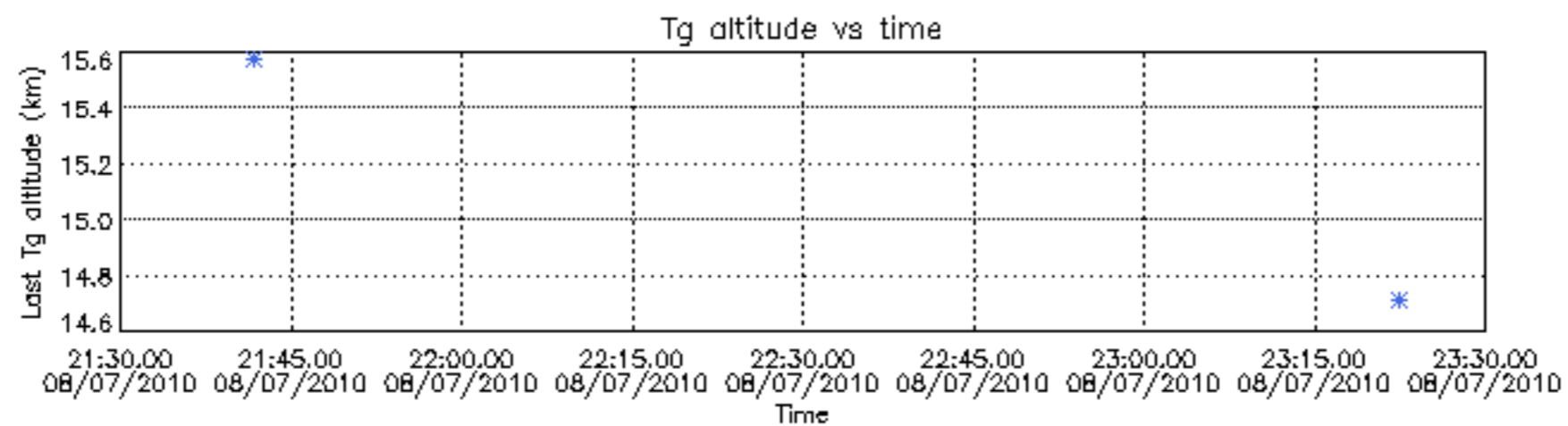
Tangent altitude at which the star is lost

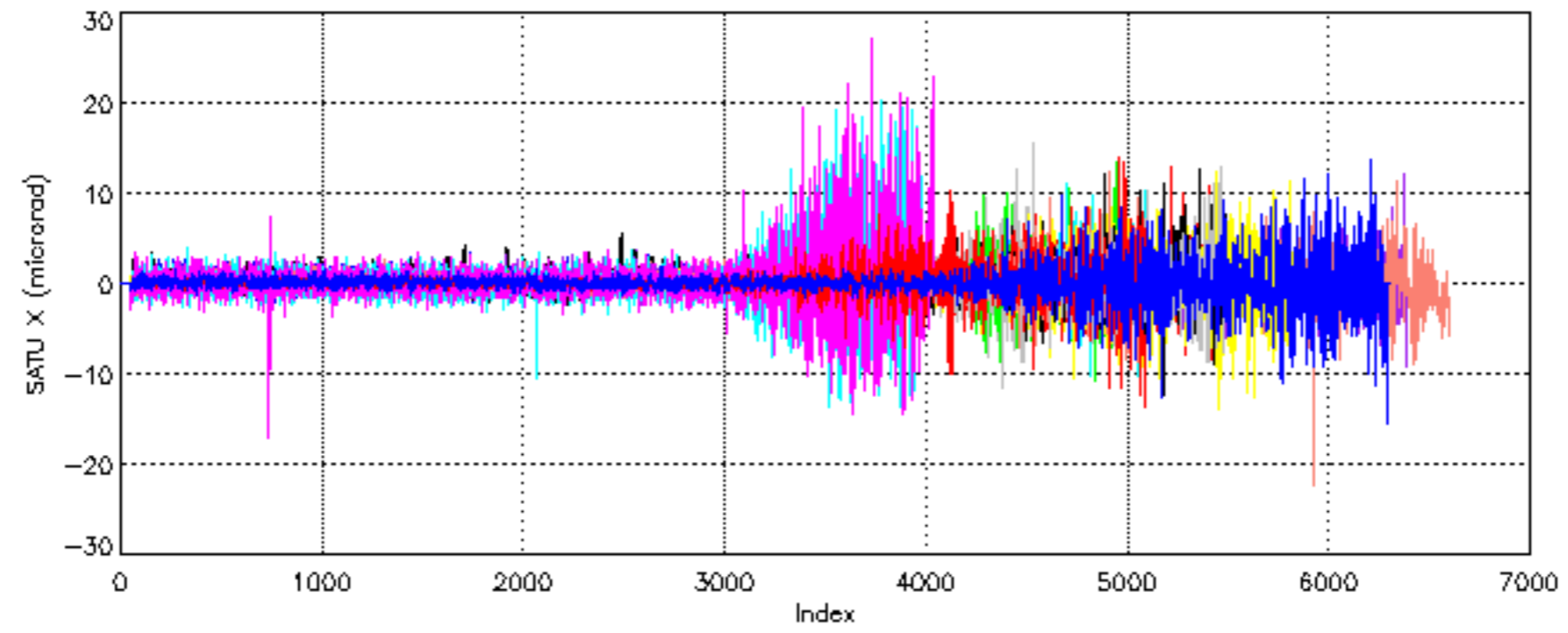


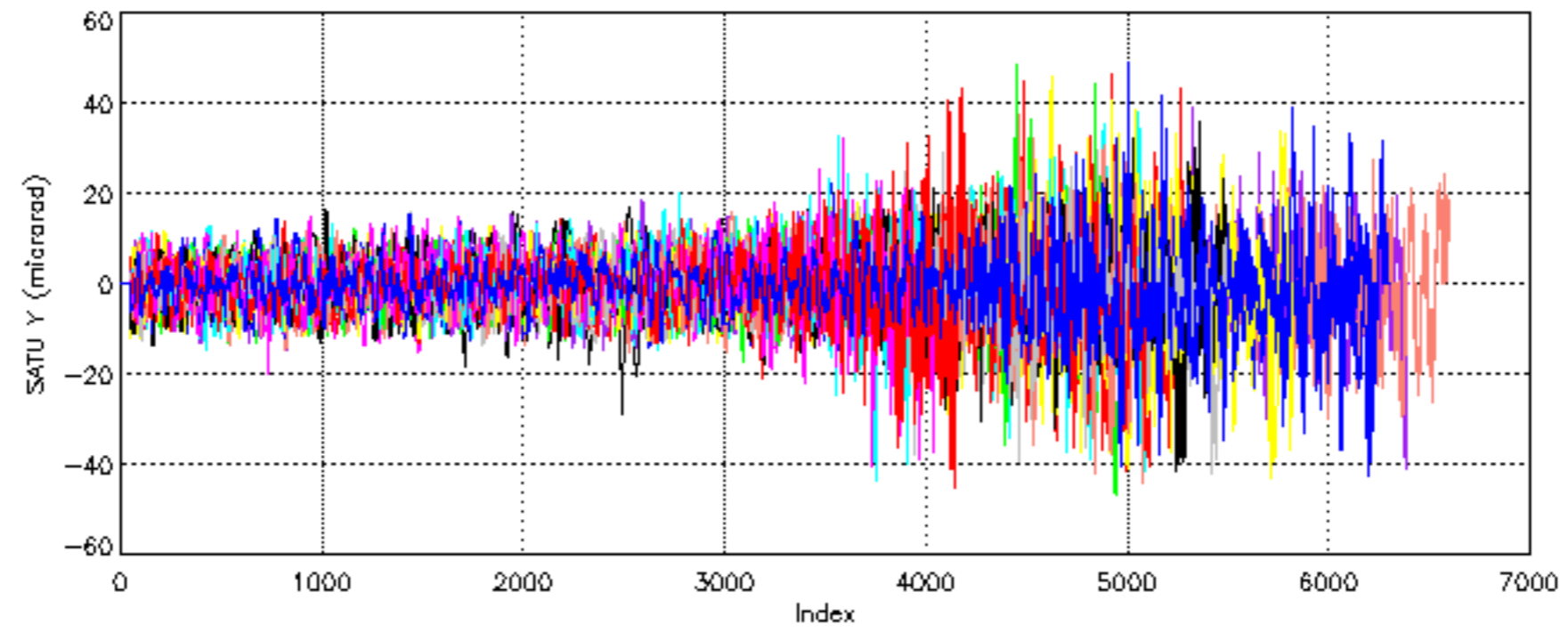
Tangent altitude at which the star is lost

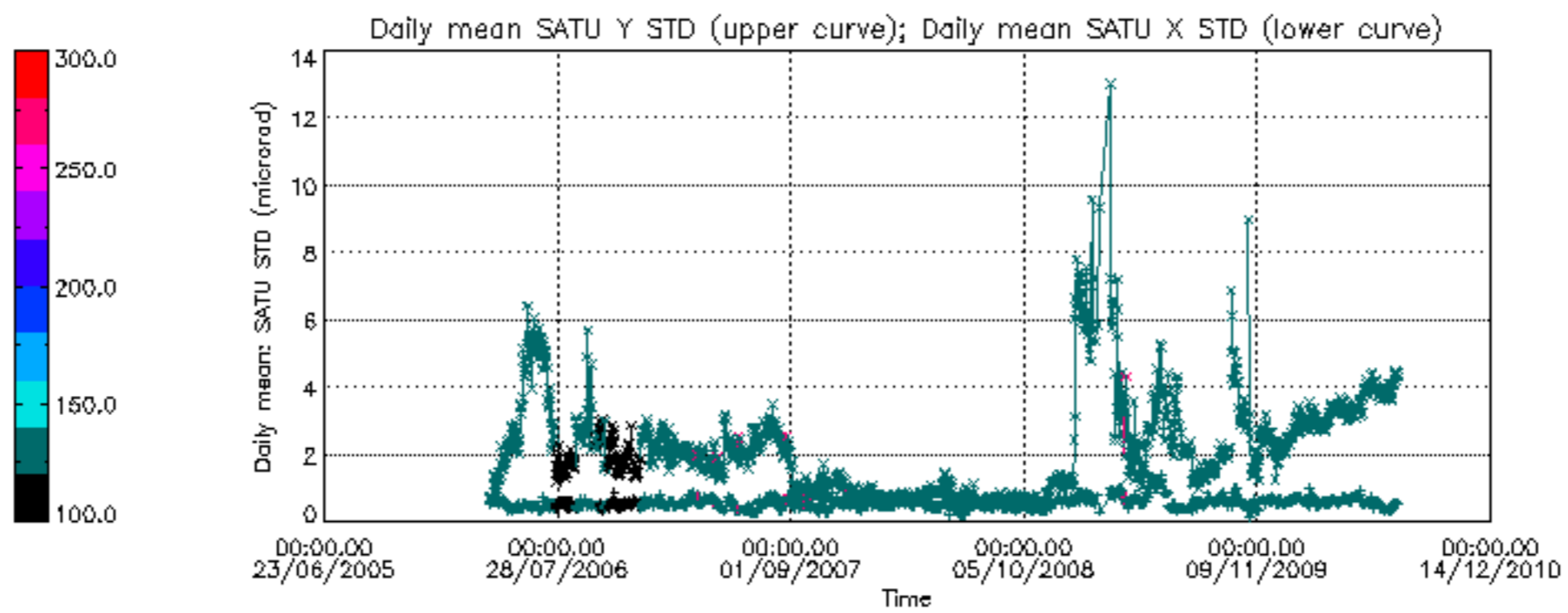


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100701_002828_000055612090_00431_43571_0355.N1

1; -536.4; 01-JUL-2010 00:28:28; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;43571
 2; 94.6; 01-JUL-2010 00:38:59; Dark ; 52.5; 84; Alp Phe ; 2.40; 4500;occ; 105; 0;43572
 3; 483.7; 01-JUL-2010 00:45:28; Dark ; 56.5; 63; Bet Gru ; 2.15; 2800;occ; 113; 0;43572
 4; 600.1; 01-JUL-2010 00:47:24; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;43572
 5; 743.9; 01-JUL-2010 00:49:48; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;43572
 6; 1314.0; 01-JUL-2010 00:59:18; Dark ; 49.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 98; 0;43572
 7; 1480.2; 01-JUL-2010 01:02:04; Bright; 46.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 93; 0;43572
 8; 1981.6; 01-JUL-2010 01:10:26; Bright; 37.5; 126; 60Bet Oph ; 2.77; 4250;occ; 75; 0;43572
 9; 2121.8; 01-JUL-2010 01:12:46; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;43572
 10; 2233.6; 01-JUL-2010 01:14:38; Bright; 47.5; 168; 17Zet Aql ; 2.99; 11000;occ; 95; 0;43572
 11; 2652.9; 01-JUL-2010 01:21:37; Bright; 41.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 82; 0;43572
 12; 2809.4; 01-JUL-2010 01:24:14; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;43572
 13; 2925.2; 01-JUL-2010 01:26:09; Bright; 40.0; 144; 18Del Cyg ; 2.86; 11000;occ; 80; 0;43572
 14; 3345.6; 01-JUL-2010 01:33:10; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;43572
 15; 3786.1; 01-JUL-2010 01:40:30; Bright; 48.0; 74; 11Bet Cas ; 2.27; 6600;occ; 96; 0;43572
 16; 3888.2; 01-JUL-2010 01:42:12; Bright; 50.0; 68; 18Alp Cas ; 2.22; 4500;occ; 100; 0;43572
 17; 4062.4; 01-JUL-2010 01:45:07; Bright; 56.0; 160; 23Gam Per ; 2.93; 4700;occ; 112; 0;43572
 18; 4266.8; 01-JUL-2010 01:48:31; Bright; 46.0; 73; 57Gam1And ; 2.26; 13100;occ; 92; 0;43572
 19; 4424.1; 01-JUL-2010 01:51:08; Dark ; 49.5; 173; 4Bet Tri ; 3.00; 8900;occ; 99; 0;43572
 20; 4678.5; 01-JUL-2010 01:55:23; Dark ; 60.5; 50; 13Alp Ari ; 2.01; 4250;occ; 121; 0;43572
 21; 4976.2; 01-JUL-2010 02:00:20; Dark ; 48.5; 94; 92Alp Cet ; 2.53; 3100;occ; 97; 0;43572

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100701_020905_000039272090_00432_43572_0356.N1

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 2; 95.3; 01-JUL-2010 02:19:35; Dark ; 58.0; 84; Alp Phe ; 2.40; 4500;occ; 116; 0;43573
 3; 484.4; 01-JUL-2010 02:26:04; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;43573
 4; 601.0; 01-JUL-2010 02:28:01; Dark ; 55.0; 31; Alp Gru ; 1.73; 15200;occ; 110; 0;43573
 5; 744.6; 01-JUL-2010 02:30:25; Dark ; 46.5; 45; Alp Pav ; 1.94; 26000;occ; 93; 0;43573
 6; 1314.3; 01-JUL-2010 02:39:54; Dark ; 46.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 93; 0;43573
 7; 1480.5; 01-JUL-2010 02:42:41; Bright; 46.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 93; 0;43573
 8; 1982.0; 01-JUL-2010 02:51:02; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;43573
 9; 2121.7; 01-JUL-2010 02:53:22; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;43573
 10; 2233.3; 01-JUL-2010 02:55:13; Bright; 49.5; 168; 17Zet Aql ; 2.99; 11000;occ; 99; 0;43573
 11; 2652.5; 01-JUL-2010 03:02:13; Bright; 41.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 83; 0;43573
 12; 2809.3; 01-JUL-2010 03:04:49; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;43573
 13; 2924.7; 01-JUL-2010 03:06:45; Bright; 40.0; 144; 18Del Cyg ; 2.86; 11000;occ; 80; 0;43573
 14; 3344.9; 01-JUL-2010 03:13:45; Bright; 47.5; 89; 5Alp Cep ; 2.45; 8000;occ; 95; 0;43573

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 2;-2148.4; 01-JUL-2010 03:22:48; Bright; 48.0; 68; 18Alp Cas ; 2.22; 4500;occ; 96; 0;43573
 3;-1973.6; 01-JUL-2010 03:25:42; Bright; 51.0; 160; 23Gam Per ; 2.93; 4700;occ; 102; 0;43573
 4;-1769.2; 01-JUL-2010 03:29:07; Bright; 65.0; 73; 57Gam1And ; 2.26; 13100;occ; 130; 0;43573
 5;-1611.6; 01-JUL-2010 03:31:44; Dark ; 50.5; 173; 4Bet Tri ; 3.00; 8900;occ; 101; 0;43573
 6;-1357.0; 01-JUL-2010 03:35:59; Dark ; 59.0; 50; 13Alp Ari ; 2.01; 4250;occ; 118; 0;43573
 7;-1059.7; 01-JUL-2010 03:40:56; Dark ; 48.5; 94; 92Alp Cet ; 2.53; 3100;occ; 97; 0;43573
 8; -534.6; 01-JUL-2010 03:49:41; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;43573
 9; 96.5; 01-JUL-2010 04:00:13; Dark ; 48.5; 84; Alp Phe ; 2.40; 4500;occ; 97; 0;43574
 10; 485.6; 01-JUL-2010 04:06:42; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;43574
 11; 602.3; 01-JUL-2010 04:08:38; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;43574
 12; 744.8; 01-JUL-2010 04:11:01; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;43574
 13; 1314.7; 01-JUL-2010 04:20:31; Dark ; 45.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 90; 0;43574
 14; 1388.9; 01-JUL-2010 04:21:45; Bright; 45.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 90; 0;43574
 15; 1480.4; 01-JUL-2010 04:23:16; Bright; 46.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 93; 0;43574
 16; 1981.9; 01-JUL-2010 04:31:38; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;43574
 17; 2121.8; 01-JUL-2010 04:33:58; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 0;43574
 18; 2232.8; 01-JUL-2010 04:35:49; Bright; 48.5; 168; 17Zet Aql ; 2.99; 11000;occ; 97; 0;43574
 19; 2652.2; 01-JUL-2010 04:42:48; Bright; 44.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 89; 0;43574
 20; 2809.2; 01-JUL-2010 04:45:25; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;43574
 21; 2923.6; 01-JUL-2010 04:47:20; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;43574
 22; 3344.5; 01-JUL-2010 04:54:21; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;43574

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 2;-2148.9; 01-JUL-2010 05:03:23; Bright; 69.0; 68; 18Alp Cas ; 2.22; 4500;occ; 138; 0;43574
 3;-1973.4; 01-JUL-2010 05:06:19; Bright; 36.0; 160; 23Gam Per ; 2.93; 4700;occ; 72; 0;43574
 4;-1769.5; 01-JUL-2010 05:09:43; Bright; 48.0; 73; 57Gam1And ; 2.26; 13100;occ; 96; 0;43574
 5;-1611.5; 01-JUL-2010 05:12:21; Dark ; 49.5; 173; 4Bet Tri ; 3.00; 8900;occ; 99; 0;43574
 6;-1356.8; 01-JUL-2010 05:16:35; Dark ; 58.0; 50; 13Alp Ari ; 2.01; 4250;occ; 116; 0;43574
 7;-1059.1; 01-JUL-2010 05:21:33; Dark ; 44.5; 94; 92Alp Cet ; 2.53; 3100;occ; 89; 0;43574


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11; 602.8; 01-JUL-2010 05:49:15; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;43575
12; 745.4; 01-JUL-2010 05:51:37; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;43575
13; 1314.8; 01-JUL-2010 06:01:07; Dark ; 45.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 91; 0;43575
14; 1389.0; 01-JUL-2010 06:02:21; Bright; 44.5; 57; 34Sig Sgr ; 2.07; 26000;occ; 89; 0;43575
15; 1480.9; 01-JUL-2010 06:03:53; Bright; 45.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 90; 0;43575
16; 1982.2; 01-JUL-2010 06:12:14; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;43575
17; 2121.9; 01-JUL-2010 06:14:34; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 0;43575
18; 2232.3; 01-JUL-2010 06:16:24; Bright; 48.0; 168; 17Zet Aql ; 2.99; 11000;occ; 96; 0;43575
19; 2651.8; 01-JUL-2010 06:23:24; Bright; 45.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 90; 0;43575
20; 2808.8; 01-JUL-2010 06:26:01; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;43575
21; 2923.1; 01-JUL-2010 06:27:55; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;43575
22; 3343.8; 01-JUL-2010 06:34:56; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;43575
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2; -2149.1; 01-JUL-2010 06:43:59; Bright; 51.0; 68; 18Alp Cas ; 2.22; 4500;occ; 102; 0;43575
3; -1973.8; 01-JUL-2010 06:46:54; Bright; 49.0; 160; 23Gam Per ; 2.93; 4700;occ; 98; 0;43575
4; -1769.3; 01-JUL-2010 06:50:19; Bright; 51.5; 73; 57Gam1And ; 2.26; 13100;occ; 103; 0;43575
5; -1611.1; 01-JUL-2010 06:52:57; Dark ; 47.0; 173; 4Bet Tri ; 3.00; 8900;occ; 94; 0;43575
6; -1356.0; 01-JUL-2010 06:57:12; Dark ; 56.5; 50; 13Alp Ari ; 2.01; 4250;occ; 113; 0;43575
7; -1058.6; 01-JUL-2010 07:02:09; Dark ; 49.0; 94; 92Alp Cet ; 2.53; 3100;occ; 98; 0;43575
8; -532.8; 01-JUL-2010 07:10:55; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;43575
9; 98.8; 01-JUL-2010 07:21:27; Dark ; 52.0; 84; Alp Phe ; 2.40; 4500;occ; 104; 0;43576
10; 487.4; 01-JUL-2010 07:27:55; Dark ; 65.0; 63; Bet Gru ; 2.15; 2800;occ; 130; 0;43576
11; 604.0; 01-JUL-2010 07:29:52; Dark ; 59.5; 31; Alp Gru ; 1.73; 15200;occ; 119; 0;43576
12; 745.9; 01-JUL-2010 07:32:14; Dark ; 49.0; 45; Alp Pav ; 1.94; 26000;occ; 98; 0;43576
13; 1315.1; 01-JUL-2010 07:41:43; Dark ; 48.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 97; 0;43576
14; 1389.2; 01-JUL-2010 07:42:57; Bright; 44.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 88; 0;43576
15; 1481.1; 01-JUL-2010 07:44:29; Bright; 45.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 91; 0;43576
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3; 2231.8; 01-JUL-2010 07:57:00; Bright; 48.5; 168; 17Zet Aql ; 2.99; 11000;occ; 97; 0;43576
4; 2651.5; 01-JUL-2010 08:03:59; Bright; 48.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 96; 0;43576
5; 2808.8; 01-JUL-2010 08:06:37; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;43576
6; 2921.8; 01-JUL-2010 08:08:30; Bright; 49.0; 144; 18Del Cyg ; 2.86; 11000;occ; 98; 0;43576
7; 3343.1; 01-JUL-2010 08:15:31; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;43576
8; 3784.4; 01-JUL-2010 08:22:52; Bright; 50.0; 74; 11Bet Cas ; 2.27; 6600;occ; 100; 0;43576
9; 3876.7; 01-JUL-2010 08:24:25; Bright; 43.5; 110; 37Del Cas ; 2.68; 8900;occ; 87; 0;43576
10; 4062.2; 01-JUL-2010 08:27:30; Bright; 55.0; 160; 23Gam Per ; 2.93; 4700;occ; 110; 0;43576
11; 4165.5; 01-JUL-2010 08:29:14; Bright; 34.0; 175; 39Del Per ; 3.01; 19400;occ; 68; 0;43576
12; 4266.5; 01-JUL-2010 08:30:54; Bright; 49.5; 73; 57Gam1And ; 2.26; 13100;occ; 99; 0;43576
13; 4424.9; 01-JUL-2010 08:33:33; Dark ; 46.0; 173; 4Bet Tri ; 3.00; 8900;occ; 92; 0;43576
14; 4679.9; 01-JUL-2010 08:37:48; Dark ; 59.0; 50; 13Alp Ari ; 2.01; 4250;occ; 118; 0;43576
15; 4978.0; 01-JUL-2010 08:42:46; Dark ; 47.5; 94; 92Alp Cet ; 2.53; 3100;occ; 95; 0;43576
16; 5504.0; 01-JUL-2010 08:51:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43576
17; 6135.8; 01-JUL-2010 09:02:04; Dark ; 47.0; 84; Alp Phe ; 2.40; 4500;occ; 94; 0;43577
18; 6524.4; 01-JUL-2010 09:08:32; Dark ; 64.0; 63; Bet Gru ; 2.15; 2800;occ; 128; 0;43577
19; 6640.2; 01-JUL-2010 09:10:28; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;43577
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22; 7425.5; 01-JUL-2010 09:23:34; Bright; 48.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 96; 0;43577
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3; 2647.3; 01-JUL-2010 21:28:43; Bright; 39.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 79; 0;43584
4; 2914.8; 01-JUL-2010 21:33:10; Bright; 49.0; 144; 18Del Cyg ; 2.86; 11000;occ; 98; 0;43584
5; 3132.5; 01-JUL-2010 21:36:48; Bright; 55.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 111; 0;43584
6; 3337.8; 01-JUL-2010 21:40:13; Bright; 47.5; 89; 5Alp Cep ; 2.45; 8000;occ; 95; 0;43584
7; 3780.4; 01-JUL-2010 21:47:36; Bright; 48.5; 74; 11Bet Cas ; 2.27; 6600;occ; 97; 0;43584
8; 3874.3; 01-JUL-2010 21:49:10; Bright; 40.5; 110; 37Del Cas ; 2.68; 8900;occ; 81; 0;43584
9; 4265.9; 01-JUL-2010 21:55:41; Bright; 47.5; 73; 57Gam1And ; 2.26; 13100;occ; 95; 0;43584
10; 4419.5; 01-JUL-2010 21:58:15; Dark ; 72.5; 53; 43Bet And ; 2.05; 3300;occ; 145; 0;43584
11; 4682.4; 01-JUL-2010 22:02:38; Dark ; 58.0; 50; 13Alp Ari ; 2.01; 4250;occ; 116; 0;43584
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3; 107.7; 01-JUL-2010 22:26:59; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;43585
4; 496.2; 01-JUL-2010 22:33:28; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;43585
5; 596.3; 01-JUL-2010 22:35:08; Dark ; 75.5; 18; 24Alp PsA ; 1.17; 9700;occ; 151; 0;43585
6; 1482.8; 01-JUL-2010 22:49:54; Bright; 45.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 91; 0;43585
7; 2226.5; 01-JUL-2010 23:02:18; Bright; 50.0; 168; 17Zet Aql ; 2.99; 11000;occ; 100; 0;43585
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9; 2914.3; 01-JUL-2010 23:13:46; Bright; 50.0; 144; 18Del Cyg ; 2.86; 11000;occ; 100; 0;43585
10; 3131.4; 01-JUL-2010 23:17:23; Bright; 62.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 124; 0;43585
11; 3336.9; 01-JUL-2010 23:20:48; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;43585
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14; 4266.0; 01-JUL-2010 23:36:17; Bright; 54.0; 73; 57Gam1And ; 2.26; 13100;occ; 108; 0;43585
15; 4419.3; 01-JUL-2010 23:38:51; Dark ; 70.0; 53; 43Bet And ; 2.05; 3300;occ; 140; 0;43585
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3; 109.1; 02-JUL-2010 00:07:36; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;43586
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5; 598.1; 02-JUL-2010 00:15:45; Dark ; 96.5; 18; 24Alp PsA ; 1.17; 9700;occ; 193; 0;43586
6; 787.6; 02-JUL-2010 00:18:55; Dark ; 56.5; 172; Gam Gru ; 3.00; 13100;occ; 113; 0;43586
7; 1482.7; 02-JUL-2010 00:30:30; Bright; 45.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 91; 0;43586
8; 2226.2; 02-JUL-2010 00:42:53; Bright; 46.0; 168; 17Zet Aql ; 2.99; 11000;occ; 92; 0;43586
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11; 3130.1; 02-JUL-2010 00:57:57; Bright; 61.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 123; 0;43586
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16; 4419.4; 02-JUL-2010 01:19:27; Dark ; 74.0; 53; 43Bet And ; 2.05; 3300;occ; 148; 0;43586
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8; 3783.8; 01-JUL-2010 10:03:28; Bright; 51.0; 74; 11Bet Cas ; 2.27; 6600;occ; 102; 0;43577
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16; 5504.8; 01-JUL-2010 10:32:09; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;43577
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19; 6641.4; 01-JUL-2010 10:51:05; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;43578
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3; 2230.3; 01-JUL-2010 11:18:10; Bright; 48.0; 168; 17Zet Aql ; 2.99; 11000;occ; 96; 0;43578
4; 2650.3; 01-JUL-2010 11:25:10; Bright; 45.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 90; 0;43578
5; 2808.6; 01-JUL-2010 11:27:48; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;43578
6; 2920.2; 01-JUL-2010 11:29:40; Bright; 49.5; 144; 18Del Cyg ; 2.86; 11000;occ; 99; 0;43578
7; 3783.3; 01-JUL-2010 11:44:03; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;43578
8; 3876.0; 01-JUL-2010 11:45:36; Bright; 51.5; 110; 37Del Cas ; 2.68; 8900;occ; 103; 0;43578
9; 4062.1; 01-JUL-2010 11:48:42; Bright; 53.5; 160; 23Gam Per ; 2.93; 4700;occ; 107; 0;43578

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13; 4680.6; 01-JUL-2010 11:59:00; Dark ; 59.0; 50; 13Alp Ari ; 2.01; 4250;occ; 118; 0;43578
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 3; 2649.4; 01-JUL-2010 14:46:21; Bright; 47.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 95; 0;43580
 4; 2918.4; 01-JUL-2010 14:50:50; Bright; 48.5; 144; 18Del Cyg ; 2.86; 11000;occ; 97; 0;43580
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 6; 3340.4; 01-JUL-2010 14:57:52; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;43580
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 5; 3136.6; 01-JUL-2010 16:35:04; Bright; 61.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 122; 0;43581
 6; 3339.7; 01-JUL-2010 16:38:27; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;43581
 7; 3781.6; 01-JUL-2010 16:45:49; Bright; 48.0; 74; 11Bet Cas ; 2.27; 6600;occ; 96; 0;43581
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11; 4681.5; 01-JUL-2010 17:00:49; Dark ; 60.0; 50; 13Alp Ari ; 2.01; 4250;occ; 120; 0;43581
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13; 5876.6; 01-JUL-2010 17:20:44; Dark ; 83.0; 52; 16Bet Cet ; 2.04; 4500;occ; 166; 0;43581
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16; 6627.2; 01-JUL-2010 17:33:15; Dark ; 78.0; 18; 24Alp PsA ; 1.17; 9700;occ; 156; 0;43582
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 3; 109.8; 02-JUL-2010 01:48:13; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;43587
 4; 498.0; 02-JUL-2010 01:54:41; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;43587
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 6; 789.0; 02-JUL-2010 01:59:32; Dark ; 57.0; 172; Gam Gru ; 3.00; 13100;occ; 114; 0;43587
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 9; 2645.9; 02-JUL-2010 02:30:29; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;43587
10; 2912.5; 02-JUL-2010 02:34:56; Bright; 46.0; 144; 18Del Cyg ; 2.86; 11000;occ; 92; 0;43587
11; 3129.0; 02-JUL-2010 02:38:32; Bright; 63.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 127; 0;43587
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 3; -1770.3; 02-JUL-2010 02:57:29; Bright; 51.5; 73; 57Gam1And ; 2.26; 13100;occ; 103; 0;43587
 4; -1616.6; 02-JUL-2010 03:00:02; Dark ; 66.5; 53; 43Bet And ; 2.05; 3300;occ; 133; 0;43587
 5; -1352.1; 02-JUL-2010 03:04:27; Dark ; 62.5; 50; 13Alp Ari ; 2.01; 4250;occ; 125; 0;43587
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 10; 601.6; 02-JUL-2010 03:37:01; Dark ; 86.0; 18; 24Alp PsA ; 1.17; 9700;occ; 172; 0;43588
 11; 790.0; 02-JUL-2010 03:40:09; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;43588
 12; 1483.1; 02-JUL-2010 03:51:42; Bright; 46.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 92; 0;43588
 13; 2225.3; 02-JUL-2010 04:04:04; Bright; 48.5; 168; 17Zet Aql ; 2.99; 11000;occ; 97; 0;43588
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 7; -146.4; 02-JUL-2010 05:05:09; Dark ; 69.5; 52; 16Bet Cet ; 2.04; 4500;occ; 139; 0;43588
 8; 112.1; 02-JUL-2010 05:09:27; Dark ; 61.0; 84; Alp Phe ; 2.40; 4500;occ; 122; 0;43589
 9; 499.9; 02-JUL-2010 05:15:55; Dark ; 51.0; 63; Bet Gru ; 2.15; 2800;occ; 102; 0;43589
 10; 603.3; 02-JUL-2010 05:17:38; Dark ; 79.5; 18; 24Alp PsA ; 1.17; 9700;occ; 159; 0;43589
 11; 790.9; 02-JUL-2010 05:20:46; Dark ; 56.0; 172; Gam Gru ; 3.00; 13100;occ; 112; 0;43589
 12; 1483.4; 02-JUL-2010 05:32:18; Bright; 45.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 90; 0;43589
 13; 2224.8; 02-JUL-2010 05:44:40; Bright; 49.0; 168; 17Zet Aql ; 2.99; 11000;occ; 98; 0;43589
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 3; 2640.9; 02-JUL-2010 20:56:59; Bright; 39.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 79; 0;43598
 4; 2903.3; 02-JUL-2010 21:01:22; Bright; 49.5; 144; 18Del Cyg ; 2.86; 11000;occ; 99; 0;43598
 5; 3115.0; 02-JUL-2010 21:04:53; Bright; 60.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 121; 0;43598
 6; 3328.0; 02-JUL-2010 21:08:26; Bright; 67.0; 89; 5Alp Cep ; 2.45; 8000;occ; 134; 0;43598
 7; 3772.7; 02-JUL-2010 21:15:51; Bright; 48.0; 74; 11Bet Cas ; 2.27; 6600;occ; 96; 0;43598
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 5; 620.8; 02-JUL-2010 22:03:55; Dark ; 95.0; 18; 24Alp PsA ; 1.17; 9700;occ; 190; 0;43599
 6; 801.4; 02-JUL-2010 22:06:56; Dark ; 53.5; 172; Gam Gru ; 3.00; 13100;occ; 107; 0;43599
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 11; 3113.9; 02-JUL-2010 22:45:28; Bright; 60.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 121; 0;43599
 12; 3327.7; 02-JUL-2010 22:49:02; Bright; 46.0; 89; 5Alp Cep ; 2.45; 8000;occ; 92; 0;43599
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 5; 622.6; 02-JUL-2010 23:44:33; Dark ; 77.5; 18; 24Alp PsA ; 1.17; 9700;occ; 155; 0;43600
 6; 802.4; 02-JUL-2010 23:47:33; Dark ; 57.0; 172; Gam Gru ; 3.00; 13100;occ; 114; 0;43600
 7; 1485.6; 02-JUL-2010 23:58:56; Bright; 45.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 90; 0;43600
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11; 3112.7; 03-JUL-2010 00:26:03; Bright; 59.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 119; 0;43600
12; 3326.7; 03-JUL-2010 00:29:37; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;43600
13; 3771.5; 03-JUL-2010 00:37:02; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;43600
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17; 4688.4; 03-JUL-2010 00:52:19; Dark ; 59.5; 50; 13Alp Ari ; 2.01; 4250;occ; 119; 0;43600
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6; 3776.4; 02-JUL-2010 09:31:43; Bright; 51.0; 74; 11Bet Cas ; 2.27; 6600;occ; 102; 0;43591
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16; 6830.0; 02-JUL-2010 10:22:37; Dark ; 56.0; 172; Gam Gru ; 3.00; 13100;occ; 112; 0;43592
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3; 2908.4; 02-JUL-2010 10:57:51; Bright; 48.5; 144; 18Del Cyg ; 2.86; 11000;occ; 97; 0;43592
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6; 3776.1; 02-JUL-2010 11:12:19; Bright; 50.0; 74; 11Bet Cas ; 2.27; 6600;occ; 100; 0;43592
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8; 4265.4; 02-JUL-2010 11:20:28; Bright; 56.5; 73; 57Gam1And ; 2.26; 13100;occ; 113; 0;43592
9; 4419.4; 02-JUL-2010 11:23:02; Dark ; 72.5; 53; 43Bet And ; 2.05; 3300;occ; 145; 0;43592

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11; 4419.3; 05-JUL-2010 21:32:23; Dark ; 78.5; 53; 43Bet And ; 2.05; 3300;occ; 157; 0;43641
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8; 158.3; 05-JUL-2010 06:56:34; Dark ; 51.0; 84; Alp Phe ; 2.40; 4500;occ; 102; 0;43633
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3; 2858.8; 06-JUL-2010 20:34:45; Bright; 46.5; 144; 18Del Cyg ; 2.86; 11000;occ; 93; 0;43655
4; 3048.7; 06-JUL-2010 20:37:55; Bright; 57.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 114; 0;43655
5; 3290.6; 06-JUL-2010 20:41:57; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;43655
6; 3740.9; 06-JUL-2010 20:49:27; Bright; 48.5; 74; 11Bet Cas ; 2.27; 6600;occ; 97; 0;43655
7; 3851.4; 06-JUL-2010 20:51:18; Bright; 44.0; 110; 37Del Cas ; 2.68; 8900;occ; 88; 0;43655
8; 4259.8; 06-JUL-2010 20:58:06; Bright; 54.5; 73; 57Gam1And ; 2.26; 13100;occ; 109; 0;43655
9; 4418.9; 06-JUL-2010 21:00:45; Dark ; 84.0; 53; 43Bet And ; 2.05; 3300;occ; 168; 0;43655
10; 4709.1; 06-JUL-2010 21:05:35; Dark ; 63.5; 50; 13Alp Ari ; 2.01; 4250;occ; 127; 0;43655
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 5; 717.1; 06-JUL-2010 21:39:39; Dark ; 83.0; 18; 24Alp PsA ; 1.17; 9700;occ; 166; 0;43656
 6; 857.8; 06-JUL-2010 21:42:00; Dark ; 53.5; 172; Gam Gru ; 3.00; 13100;occ; 107; 0;43656
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 4; 566.1; 07-JUL-2010 02:38:56; Dark ; 65.5; 63; Bet Gru ; 2.15; 2800;occ; 131; 0;43659
 5; 721.8; 07-JUL-2010 02:41:32; Dark ; 83.0; 18; 24Alp PsA ; 1.17; 9700;occ; 166; 0;43659
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 7; 2616.4; 07-JUL-2010 03:13:06; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;43659
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13; 2192.8; 07-JUL-2010 04:46:39; Bright; 44.5; 168; 17Zet Aql ; 2.99; 11000;occ; 89; 0;43660
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10; 4297.3; 14-JUL-2010 18:26:25; Bright; 47.5; 79; 26Bet Per ; 2.31; 13100;occ; 95; 0;43768
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2;	-501.9;	22-JUL-2010	01:09:18;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	43872
3;	208.8;	22-JUL-2010	01:21:09;	Dark	;	43.0;	9;	Alp	Eri	;	0.45;	24000;	occ;	86;	0;	43873
4;	429.7;	22-JUL-2010	01:24:50;	Dark	;	59.0;	84;	Alp	Phe	;	2.40;	4500;	occ;	118;	0;	43873
5;	649.4;	22-JUL-2010	01:28:30;	Dark	;	42.5;	148;	Alp	Tuc	;	2.88;	4100;	occ;	85;	0;	43873
6;	747.3;	22-JUL-2010	01:30:08;	Dark	;	61.5;	63;	Bet	Gru	;	2.15;	2800;	occ;	123;	0;	43873
7;	833.9;	22-JUL-2010	01:31:34;	Dark	;	54.0;	31;	Alp	Gru	;	1.73;	15200;	occ;	108;	0;	43873
8;	1027.1;	22-JUL-2010	01:34:47;	Dark	;	50.0;	172;	Gam	Gru	;	3.00;	13100;	occ;	100;	0;	43873
9;	2080.4;	22-JUL-2010	01:52:21;	Bright;		41.5;	11;	53Alp	Aql	;	0.76;	8000;	occ;	83;	0;	43873
10;	2570.6;	22-JUL-2010	02:00:31;	Bright;		41.0;	5;	3Alp	Lyr	;	0.03;	11000;	occ;	82;	0;	43873
11;	2738.3;	22-JUL-2010	02:03:19;	Bright;		40.5;	144;	18Del	Cyg	;	2.86;	11000;	occ;	81;	0;	43873
12;	2851.9;	22-JUL-2010	02:05:12;	Bright;		44.0;	19;	50Alp	Cyg	;	1.25;	10500;	occ;	88;	0;	43873
13;	3161.1;	22-JUL-2010	02:10:21;	Bright;		43.0;	89;	5Alp	Cep	;	2.45;	8000;	occ;	86;	0;	43873
14;	3690.5;	22-JUL-2010	02:19:11;	Bright;		47.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	95;	0;	43873
15;	4022.3;	22-JUL-2010	02:24:43;	Bright;		43.5;	160;	23Gam	Per	;	2.93;	4700;	occ;	87;	0;	43873
16;	4109.3;	22-JUL-2010	02:26:10;	Bright;		44.5;	35;	33Alp	Per	;	1.79;	6250;	occ;	89;	0;	43873
17;	4292.1;	22-JUL-2010	02:29:12;	Bright;		51.5;	79;	26Bet	Per	;	2.31;	13100;	occ;	103;	0;	43873
18;	4481.1;	22-JUL-2010	02:32:21;	Dark	;	46.0;	150;	44Zet	Per	;	2.89;	28000;	occ;	92;	0;	43873
19;	4645.7;	22-JUL-2010	02:35:06;	Dark	;	46.0;	146;	25Eta	Tau	;	2.87;	15200;	occ;	92;	0;	43873
20;	4740.7;	22-JUL-2010	02:36:41;	Dark	;	45.0;	13;	87Alp	Tau	;	0.87;	3800;	occ;	90;	0;	43873
21;	5332.5;	22-JUL-2010	02:46:33;	Dark	;	47.0;	165;	34Gam	Eri	;	2.95;	3200;	occ;	94;	0;	43873
22;	5535.2;	22-JUL-2010	02:49:55;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	43873
23;	5884.8;	22-JUL-2010	02:55:45;	Dark	;	43.0;	157;	The1Eri		;	2.91;	9300;	occ;	86;	0;	43873
24;	6245.2;	22-JUL-2010	03:01:46;	Dark	;	53.5;	9;	Alp	Eri	;	0.45;	24000;	occ;	107;	0;	43874
25;	6466.9;	22-JUL-2010	03:05:27;	Dark	;	58.5;	84;	Alp	Phe	;	2.40;	4500;	occ;	117;	0;	43874
26;	6686.0;	22-JUL-2010	03:09:06;	Dark	;	44.0;	148;	Alp	Tuc	;	2.88;	4100;	occ;	88;	0;	43874
27;	6783.9;	22-JUL-2010	03:10:44;	Dark	;	54.5;	63;	Bet	Gru	;	2.15;	2800;	occ;	109;	0;	43874
28;	6870.4;	22-JUL-2010	03:12:11;	Dark	;	46.5;	31;	Alp	Gru	;	1.73;	15200;	occ;	93;	0;	43874
29;	7063.9;	22-JUL-2010	03:15:24;	Dark	;	49.0;	172;	Gam	Gru	;	3.00;	13100;	occ;	98;	0;	43874
30;	8116.2;	22-JUL-2010	03:32:56;	Bright;		42.5;	11;	53Alp	Aql	;	0.76;	8000;	occ;	85;	0;	43874
31;	8606.7;	22-JUL-2010	03:41:07;	Bright;		41.0;	5;	3Alp	Lyr	;	0.03;	11000;	occ;	82;	0;	43874
32;	8773.9;	22-JUL-2010	03:43:54;	Bright;		39.5;	144;	18Del	Cyg	;	2.86;	11000;	occ;	79;	0;	43874
33;	8887.1;	22-JUL-2010	03:45:47;	Bright;		45.0;	19;	50Alp	Cyg	;	1.25;	10500;	occ;	90;	0;	43874

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2;	3160.4;	22-JUL-2010	03:50:57;	Bright;		40.5;	89;	5Alp	Cep	;	2.45;	8000;	occ;	81;	0;	43874
3;	3690.1;	22-JUL-2010	03:59:46;	Bright;		50.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	101;	0;	43874
4;	4021.9;	22-JUL-2010	04:05:18;	Bright;		44.5;	160;	23Gam	Per	;	2.93;	4700;	occ;	89;	0;	43874
5;	4109.0;	22-JUL-2010	04:06:45;	Bright;		63.0;	35;	33Alp	Per	;	1.79;	6250;	occ;	126;	0;	43874
6;	4292.2;	22-JUL-2010	04:09:48;	Bright;		52.0;	79;	26Bet	Per	;	2.31;	13100;	occ;	104;	0;	43874
7;	4481.1;	22-JUL-2010	04:12:57;	Dark	;	44.0;	150;	44Zet	Per	;	2.89;	28000;	occ;	88;	0;	43874
8;	4646.1;	22-JUL-2010	04:15:42;	Dark	;	45.0;	146;	25Eta	Tau	;	2.87;	15200;	occ;	90;	0;	43874
9;	4741.1;	22-JUL-2010	04:17:17;	Dark	;	51.0;	13;	87Alp	Tau	;	0.87;	3800;	occ;	102;	0;	43874
10;	5333.2;	22-JUL-2010	04:27:09;	Dark	;	50.5;	165;	34Gam	Eri	;	2.95;	3200;	occ;	101;	0;	43874
11;	5536.4;	22-JUL-2010	04:30:33;	Dark	;	59.5;	0;			;	0.00;	0;	occ;	119;	0;	43874
12;	5885.8;	22-JUL-2010	04:36:22;	Dark	;	43.5;	157;	The1Eri		;	2.91;	9300;	occ;	87;	0;	43874
13;	6245.9;	22-JUL-2010	04:42:22;	Dark	;	52.5;	9;	Alp	Eri	;	0.45;	24000;	occ;	105;	0;	43875
14;	6467.8;	22-JUL-2010	04:46:04;	Dark	;	53.5;	84;	Alp	Phe	;	2.40;	4500;	occ;	107;	0;	43875
15;	6686.7;	22-JUL-2010	04:49:43;	Dark	;	41.0;	148;	Alp	Tuc	;	2.88;	4100;	occ;	82;	0;	43875
16;	6784.8;	22-JUL-2010	04:51:21;	Dark	;	52.5;	63;	Bet	Gru	;	2.15;	2800;	occ;	105;	0;	43875
17;	6871.4;	22-JUL-2010	04:52:48;	Dark	;	45.0;	31;	Alp	Gru	;	1.73;	15200;	occ;	90;	0;	43875
18;	7064.6;	22-JUL-2010	04:56:01;	Dark	;	48.5;	172;	Gam	Gru	;	3.00;	13100;	occ;	97;	0;	43875
19;	8115.9;	22-JUL-2010	05:13:32;	Bright;		42.0;	11;	53Alp	Aql	;	0.76;	8000;	occ;	84;	0;	43875
20;	8606.2;	22-JUL-2010	05:21:42;	Bright;		41.5;	5;	3Alp	Lyr	;	0.03;	11000;	occ;	83;	0;	43875
21;	8773.6;	22-JUL-2010	05:24:30;	Bright;		39.0;	144;	18Del	Cyg	;	2.86;	11000;	occ;	78;	0;	43875
22;	8886.2;	22-JUL-2010	05:26:22;	Bright;		48.0;	19;	50Alp	Cyg	;	1.25;	10500;	occ;	96;	0;	43875
23;	9195.7;	22-JUL-2010	05:31:32;	Bright;		44.0;	89;	5Alp	Cep	;	2.45;	8000;	occ;	88;	0;	43875
24;	9725.6;	22-JUL-2010	05:40:22;	Bright;		48.0;	76;	27Gam	Cas	;	2.30;	30000;	occ;	96;	0;	43875

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1;	-2314.0;	22-JUL-2010	05:40:54;	Bright;		48.5;	76;	27Gam	Cas	;	2.30;	30000;	occ;	97;	65;	43875
2;	-2014.3;	22-JUL-2010	05:45:54;	Bright;		43.5;	160;	23Gam	Per	;	2.93;	4700;	occ;	87;	0;	43875
3;	-1926.9;	22-JUL-2010	05:47:21;	Bright;		63.0;	35;	33Alp	Per	;	1.79;	6250;	occ;	126;	0;	43875
4;	-1743.9;	22-JUL-2010	05:50:24;	Bright;		51.5;	79;	26Bet	Per	;	2.31;	13100;	occ;	103;	0;	43875
5;	-1554.8;	22-JUL-2010	05:53:33;	Dark	;	46.0;	150;	44Zet	Per	;	2.89;	28000;	occ;	92;	0;	43875
6;	-1390.0;	22-JUL-2010	05:56:18;	Dark	;	47.5;	146;	25Eta	Tau	;	2.87;	15200;	occ;	95;	0;	43875
7;	-1294.7;	22-JUL-2010	05:57:54;	Dark	;	49.0;	13;	87Alp	Tau	;	0.87;	3800;	occ;	98;	0;	43875
8;	-702.3;	22-JUL-2010	06:07:46;	Dark	;	49.5;	165;	34Gam	Eri	;	2.95;	3200;	occ;	99;	0;	43875

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9; -498.4; 22-JUL-2010 06:11:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43875
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11; 210.8; 22-JUL-2010 06:22:59; Dark ; 54.0; 9; Alp Eri ; 0.45; 24000;occ; 108; 0;43876
12; 432.8; 22-JUL-2010 06:26:41; Dark ; 52.5; 84; Alp Phe ; 2.40; 4500;occ; 105; 0;43876
13; 652.8; 22-JUL-2010 06:30:21; Dark ; 40.0; 148; Alp Tuc ; 2.88; 4100;occ; 80; 0;43876
14; 750.1; 22-JUL-2010 06:31:58; Dark ; 63.5; 63; Bet Gru ; 2.15; 2800;occ; 127; 0;43876
15; 835.8; 22-JUL-2010 06:33:24; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;43876
16; 1029.2; 22-JUL-2010 06:36:37; Dark ; 46.5; 172; Gam Gru ; 3.00; 13100;occ; 93; 0;43876
17; 2079.7; 22-JUL-2010 06:54:08; Bright; 45.0; 11; 53Alp Aql ; 0.76; 8000;occ; 90; 0;43876
18; 2570.4; 22-JUL-2010 07:02:19; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;43876
19; 2737.1; 22-JUL-2010 07:05:05; Bright; 40.0; 144; 18Del Cyg ; 2.86; 11000;occ; 80; 0;43876
20; 2849.5; 22-JUL-2010 07:06:58; Bright; 46.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 92; 0;43876
21; 3159.6; 22-JUL-2010 07:12:08; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;43876
22; 3688.7; 22-JUL-2010 07:20:57; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;43876
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1; 2079.3; 22-JUL-2010 08:34:44; Bright; 42.0; 11; 53Alp Aql ; 0.76; 8000;occ; 84; 0;43877
2; 2570.3; 22-JUL-2010 08:42:54; Bright; 39.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 79; 0;43877
3; 2737.1; 22-JUL-2010 08:45:41; Bright; 39.0; 144; 18Del Cyg ; 2.86; 11000;occ; 78; 0;43877
4; 2848.8; 22-JUL-2010 08:47:33; Bright; 49.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 98; 0;43877
5; 3159.1; 22-JUL-2010 08:52:43; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;43877
6; 3687.9; 22-JUL-2010 09:01:32; Bright; 50.0; 76; 27Gam Cas ; 2.30; 30000;occ; 100; 0;43877
7; 4021.2; 22-JUL-2010 09:07:05; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;43877
8; 4108.7; 22-JUL-2010 09:08:33; Bright; 45.5; 35; 33Alp Per ; 1.79; 6250;occ; 91; 0;43877
9; 4292.1; 22-JUL-2010 09:11:36; Bright; 53.0; 79; 26Bet Per ; 2.31; 13100;occ; 106; 0;43877
10; 4481.6; 22-JUL-2010 09:14:46; Dark ; 49.0; 150; 44Zet Per ; 2.89; 28000;occ; 98; 0;43877
11; 4646.6; 22-JUL-2010 09:17:31; Dark ; 49.0; 146; 25Eta Tau ; 2.87; 15200;occ; 98; 0;43877
12; 4742.0; 22-JUL-2010 09:19:06; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;43877
13; 5334.9; 22-JUL-2010 09:28:59; Dark ; 48.0; 165; 34Gam Eri ; 2.95; 3200;occ; 96; 0;43877
14; 5539.8; 22-JUL-2010 09:32:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43877
15; 5887.8; 22-JUL-2010 09:38:12; Dark ; 42.5; 157; The1Eri ; 2.91; 9300;occ; 85; 0;43877
16; 6248.0; 22-JUL-2010 09:44:12; Dark ; 43.5; 9; Alp Eri ; 0.45; 24000;occ; 87; 0;43878
17; 6470.9; 22-JUL-2010 09:47:55; Dark ; 52.5; 84; Alp Phe ; 2.40; 4500;occ; 105; 0;43878
18; 6787.2; 22-JUL-2010 09:53:11; Dark ; 60.5; 63; Bet Gru ; 2.15; 2800;occ; 121; 0;43878
19; 6873.1; 22-JUL-2010 09:54:37; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;43878
20; 7066.3; 22-JUL-2010 09:57:50; Dark ; 48.5; 172; Gam Gru ; 3.00; 13100;occ; 97; 0;43878
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2; 2736.5; 22-JUL-2010 10:26:17; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;43878
3; 2848.1; 22-JUL-2010 10:28:08; Bright; 49.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 98; 0;43878
4; 3158.5; 22-JUL-2010 10:33:19; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;43878
5; 3687.5; 22-JUL-2010 10:42:08; Bright; 49.5; 76; 27Gam Cas ; 2.30; 30000;occ; 99; 0;43878
6; 4021.0; 22-JUL-2010 10:47:41; Bright; 43.5; 160; 23Gam Per ; 2.93; 4700;occ; 87; 0;43878
7; 4108.6; 22-JUL-2010 10:49:09; Bright; 43.5; 35; 33Alp Per ; 1.79; 6250;occ; 87; 0;43878
8; 4291.8; 22-JUL-2010 10:52:12; Bright; 52.0; 79; 26Bet Per ; 2.31; 13100;occ; 104; 0;43878
9; 4481.7; 22-JUL-2010 10:55:22; Dark ; 47.5; 150; 44Zet Per ; 2.89; 28000;occ; 95; 0;43878
10; 4647.2; 22-JUL-2010 10:58:07; Dark ; 47.5; 146; 25Eta Tau ; 2.87; 15200;occ; 95; 0;43878
11; 4742.0; 22-JUL-2010 10:59:42; Dark ; 51.5; 13; 87Alp Tau ; 0.87; 3800;occ; 103; 0;43878
12; 5335.5; 22-JUL-2010 11:09:36; Dark ; 45.0; 165; 34Gam Eri ; 2.95; 3200;occ; 90; 0;43878
13; 5540.9; 22-JUL-2010 11:13:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43878
14; 5888.2; 22-JUL-2010 11:18:48; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;43878
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1; 212.9; 22-JUL-2010 13:05:25; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;43880
2; 437.8; 22-JUL-2010 13:09:10; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;43880
3; 653.1; 22-JUL-2010 13:12:45; Dark ; 41.5; 148; Alp Tuc ; 2.88; 4100;occ; 83; 0;43880
4; 752.4; 22-JUL-2010 13:14:24; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;43880
5; 838.5; 22-JUL-2010 13:15:50; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;43880
6; 1031.5; 22-JUL-2010 13:19:03; Dark ; 49.0; 172; Gam Gru ; 3.00; 13100;occ; 98; 0;43880
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2; 2570.4; 22-JUL-2010 13:44:42; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;43880
3; 2735.8; 22-JUL-2010 13:47:28; Bright; 38.5; 144; 18Del Cyg ; 2.86; 11000;occ; 77; 0;43880
4; 2846.7; 22-JUL-2010 13:49:19; Bright; 47.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 95; 0;43880
5; 3157.1; 22-JUL-2010 13:54:29; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;43880
6; 3753.2; 22-JUL-2010 14:04:25; Bright; 45.0; 110; 37Del Cas ; 2.68; 8900;occ; 90; 0;43880
7; 4020.5; 22-JUL-2010 14:08:52; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;43880
8; 4108.1; 22-JUL-2010 14:10:20; Bright; 47.0; 35; 33Alp Per ; 1.79; 6250;occ; 94; 0;43880
9; 4291.7; 22-JUL-2010 14:13:24; Bright; 48.5; 79; 26Bet Per ; 2.31; 13100;occ; 97; 0;43880
10; 4481.8; 22-JUL-2010 14:16:34; Dark ; 49.0; 150; 44Zet Per ; 2.89; 28000;occ; 98; 0;43880

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13; 5336.9; 22-JUL-2010 14:30:49; Dark ; 46.5; 165; 34Gam Eri ; 2.95; 3200;occ; 93; 0;43880
14; 5543.2; 22-JUL-2010 14:34:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43880
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16; 6249.8; 22-JUL-2010 14:46:02; Dark ; 50.5; 9; Alp Eri ; 0.45; 24000;occ; 101; 0;43881
17; 6474.9; 22-JUL-2010 14:49:47; Dark ; 54.0; 84; Alp Phe ; 2.40; 4500;occ; 108; 0;43881
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 11; 5162.0; 30-JUL-2010 13:36:10; Dark ; 53.0; 7; 19Bet Ori ; 0.10; 14000;occ; 106; 0;43994
 12; 5424.5; 30-JUL-2010 13:40:33; Dark ; 52.5; 165; 34Gam Eri ; 2.95; 3200;occ; 105; 0;43994
 13; 5717.1; 30-JUL-2010 13:45:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43994
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 17; 6942.4; 30-JUL-2010 14:05:51; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;43995
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 11; 5425.5; 30-JUL-2010 15:21:09; Dark ; 54.5; 165; 34Gam Eri ; 2.95; 3200;occ; 109; 0;43995
 12; 5717.8; 30-JUL-2010 15:26:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43995
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 15; 6603.7; 30-JUL-2010 15:40:48; Dark ; 56.0; 84; Alp Phe ; 2.40; 4500;occ; 112; 0;43996
 16; 6942.9; 30-JUL-2010 15:46:27; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;43996
 17; 7132.1; 30-JUL-2010 15:49:36; Dark ; 44.5; 172; Gam Gru ; 3.00; 13100;occ; 89; 0;43996

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 8; 4497.9; 30-JUL-2010 16:46:18; Dark ; 53.5; 150; 44Zet Per ; 2.89; 28000;occ; 107; 0;43996
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 12; 5162.8; 30-JUL-2010 16:57:23; Dark ; 52.5; 7; 19Bet Ori ; 0.10; 14000;occ; 105; 0;43996
 13; 5426.4; 30-JUL-2010 17:01:46; Dark ; 53.5; 165; 34Gam Eri ; 2.95; 3200;occ; 107; 0;43996
 14; 5718.5; 30-JUL-2010 17:06:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43996
 15; 5990.6; 30-JUL-2010 17:11:11; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;43996
 16; 6327.6; 30-JUL-2010 17:16:48; Dark ; 44.0; 9; Alp Eri ; 0.45; 24000;occ; 88; 0;43997
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 4; 2699.4; 30-JUL-2010 17:56:55; Bright; 39.5; 144; 18Del Cyg ; 2.86; 11000;occ; 79; 0;43997
 5; 3100.4; 30-JUL-2010 18:03:36; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;43997
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 20; 2701.5; 30-JUL-2010 04:32:10; Bright; 37.5; 144; 18Del Cyg ; 2.86; 11000;occ; 75; 0;43989
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5; 587.1; 31-JUL-2010 21:51:54; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;44014
6; 916.4; 31-JUL-2010 21:57:23; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;44014
7; 1105.1; 31-JUL-2010 22:00:32; Dark ; 44.5; 172; Gam Gru ; 3.00; 13100;occ; 89; 0;44014
8; 2059.6; 31-JUL-2010 22:16:27; Bright; 38.0; 11; 53Alp Aql ; 0.76; 8000;occ; 76; 0;44014
9; 2582.3; 31-JUL-2010 22:25:09; Bright; 42.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 84; 0;44014
10; 2695.5; 31-JUL-2010 22:27:02; Bright; 38.0; 144; 18Del Cyg ; 2.86; 11000;occ; 76; 0;44014
11; 3092.8; 31-JUL-2010 22:33:40; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;44014
12; 3980.7; 31-JUL-2010 22:48:28; Bright; 47.0; 160; 23Gam Per ; 2.93; 4700;occ; 94; 0;44014
13; 4139.5; 31-JUL-2010 22:51:06; Bright; 44.0; 175; 39Del Per ; 3.01; 19400;occ; 88; 0;44014
14; 4315.5; 31-JUL-2010 22:54:02; Bright; 45.5; 149; 45Eps Per ; 2.89; 30000;occ; 91; 0;44014
15; 4500.2; 31-JUL-2010 22:57:07; Dark ; 37.0; 150; 44Zet Per ; 2.89; 28000;occ; 74; 0;44014
16; 4637.7; 31-JUL-2010 22:59:25; Dark ; 41.5; 176; 23Zet Tau ; 3.02; 22000;occ; 83; 0;44014
17; 4787.6; 31-JUL-2010 23:01:54; Dark ; 60.5; 13; 87Alp Tau ; 0.87; 3800;occ; 121; 0;44014

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21; 5443.2; 01-AUG-2010 00:53:26; Dark ; 4.5; 165; 34Gam Eri ; 2.95; 3200;occ; 9; 0;44015

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