

GOMOS Daily Report 05-MAY-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	08MAY2010 04:51:42
Data source version	GOMOS/5.00L04
Start time of products	05MAY2010 00:03:58
Stop time of products	05MAY2010 23:54:05
Store outputs in DB	Yes
Nb of level 1b prods	104
Nb of prods with errors	2

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

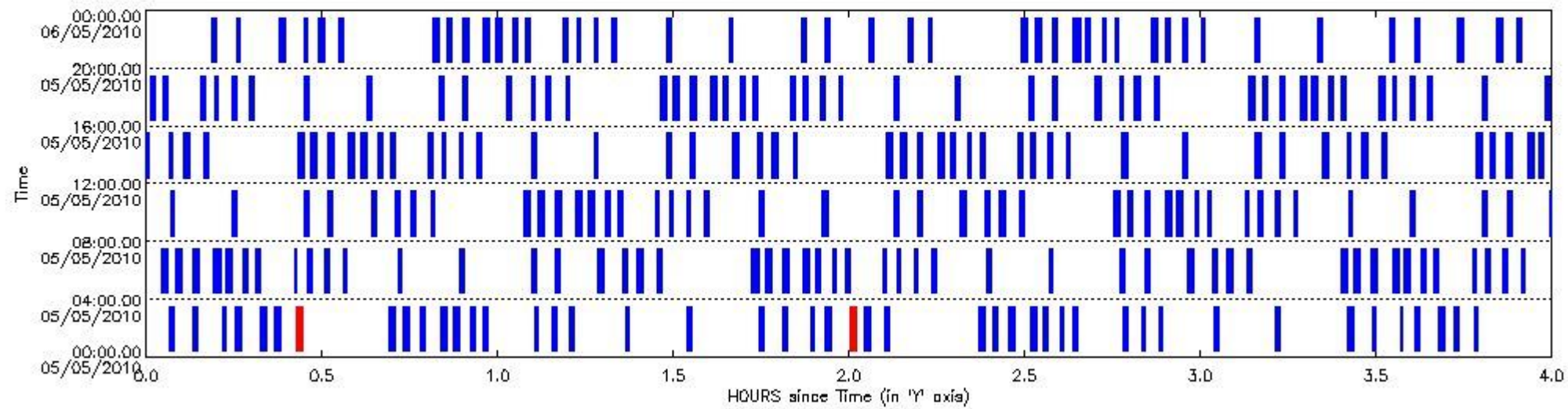
2.1 Level 0 products arrived in PCF (see template [here](#))

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
05-MAY-2010 00:25:39	GamGru	172	42755
05-MAY-2010 02:00:11	22BetAqr	154	42756

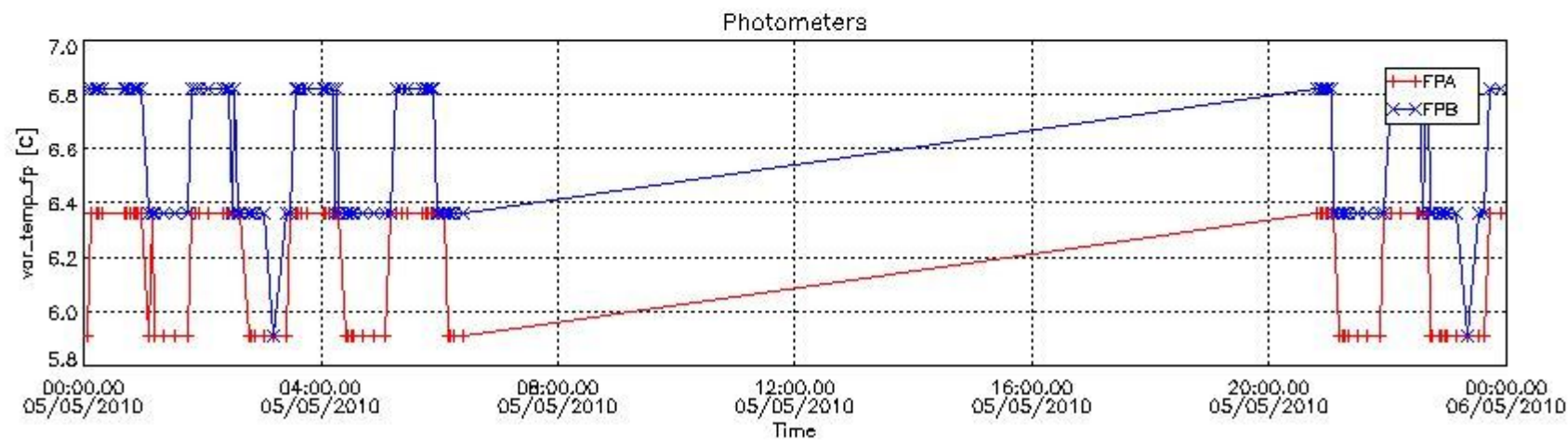
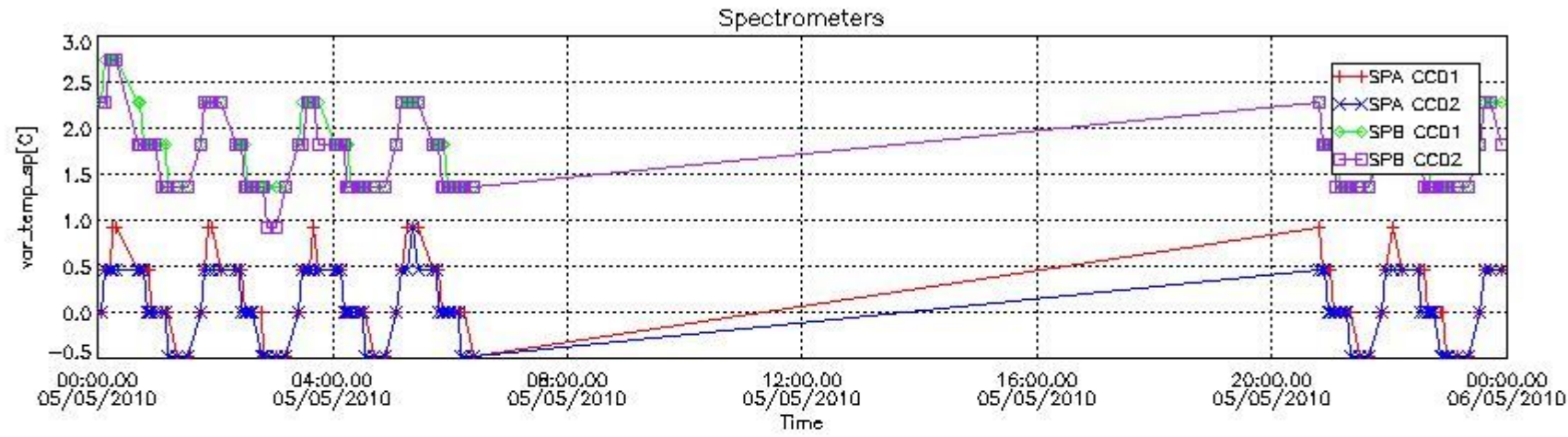
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100505_000358_000000502089_00116_42755_8877.N1	05-MAY-2010 00:03:58	Twilight_stray	49.500	93	53Bet Peg	2.5200	3100.0	99	42755	No
2	GOM_TRA_1PNPDE20100505_000803_000000492089_00116_42755_8878.N1	05-MAY-2010 00:08:03	Dark	48.500	90	54Alp Peg	2.4870	11000.	97	42755	No
3	GOM_TRA_1PNPDE20100505_001253_000000342089_00116_42755_8879.N1	05-MAY-2010 00:12:53	Dark	34.000	61	8Eps Peg	2.1000	3900.0	68	42755	No
4	GOM_TRA_1PNPDE20100505_001516_000000542089_00116_42755_8880.N1	05-MAY-2010 00:15:16	Dark	53.500	162	34Alp Aqr	2.9440	5350.0	107	42755	No
5	GOM_TRA_1PNPDE20100505_001925_000000642089_00116_42755_8884.N1	05-MAY-2010 00:19:25	Dark	63.500	154	22Bet Aqr	2.8990	5700.0	127	42755	No
6	GOM_TRA_1PNPDE20100505_004126_000000702089_00117_42756_8885.N1	05-MAY-2010 00:41:26	Straylight	69.500	38	20Eps Sgr	1.8360	11000.	139	42756	No
7	GOM_TRA_1PNPDE20100505_004350_000000572089_00117_42756_8886.N1	05-MAY-2010 00:43:50	Straylight	56.500	25	35Lam Sco	1.6200	28000.	113	42756	No
8	GOM_TRA_1PNPDE20100505_004644_000000552089_00117_42756_8887.N1	05-MAY-2010 00:46:44	Straylight	55.000	75	26Eps Sco	2.2910	4250.0	110	42756	No
9	GOM_TRA_1PNPDE20100505_005018_000000642089_00117_42756_8888.N1	05-MAY-2010 00:50:18	Twilight_stray	63.500	16	21Alp Sco	1.0200	3000.0	127	42756	No

10	GOM_TRA_1PNPDE20100505_005223_000000592089_00117_42756_8889.N1	05-MAY-2010 00:52:23	Twilight	58.500	80	7Del Sco	2.3160	30000.	117	42756	No
11	GOM_TRA_1PNPDE20100505_005523_000000422089_00117_42756_8890.N1	05-MAY-2010 00:55:23	Bright	41.500	122	9Alp2Lib	2.7470	9700.0	83	42756	No
12	GOM_TRA_1PNPDE20100505_005733_000000462089_00117_42756_8891.N1	05-MAY-2010 00:57:33	Bright	45.500	104	27Bet Lib	2.6140	13100.	91	42756	No
13	GOM_TRA_1PNPDE20100505_010618_000000422089_00117_42756_8892.N1	05-MAY-2010 01:06:18	Bright	41.500	3	16Alp Boo	-0.050000	4250.0	83	42756	No
14	GOM_TRA_1PNPDE20100505_010916_000000452089_00117_42756_8893.N1	05-MAY-2010 01:09:16	Bright	45.000	83		2.3780	11000.	90	42756	No
15	GOM_TRA_1PNPDE20100505_011220_000000382089_00117_42756_8894.N1	05-MAY-2010 01:12:20	Bright	38.000	180	27Gam Boo	3.0400	8000.0	76	42756	No
16	GOM_TRA_1PNPDE20100505_012144_000000442089_00117_42756_8895.N1	05-MAY-2010 01:21:44	Bright	44.000	119	14Eta Dra	2.7270	4700.0	88	42756	No
17	GOM_TRA_1PNPDE20100505_013218_000000452089_00117_42756_8896.N1	05-MAY-2010 01:32:18	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	42756	No
18	GOM_TRA_1PNPDE20100505_014433_000000582089_00117_42756_8897.N1	05-MAY-2010 01:44:33	Twilight	58.000	93	53Bet Peg	2.5200	3100.0	116	42756	No
19	GOM_TRA_1PNPDE20100505_014839_000000442089_00117_42756_8898.N1	05-MAY-2010 01:48:39	Dark	44.000	90	54Alp Peg	2.4870	11000.	88	42756	No
20	GOM_TRA_1PNPDE20100505_015330_000000262089_00117_42756_8904.N1	05-MAY-2010 01:53:30	Dark	26.000	61	8Eps Peg	2.1000	3900.0	52	42756	Yes
21	GOM_TRA_1PNPDE20100505_015553_000000592089_00117_42756_8905.N1	05-MAY-2010 01:55:53	Dark	58.500	162	34Alp Aqr	2.9440	5350.0	117	42756	No
22	GOM_TRA_1PNPDE20100505_020607_000000412089_00117_42756_8906.N1	05-MAY-2010 02:06:07	Dark	40.500	172	Gam Gru	3.0030	13100.	81	42756	No
23	GOM_TRA_1PNPDE20100505_022204_000000662089_00118_42757_8907.N1	05-MAY-2010 02:22:04	Straylight	66.000	38	20Eps Sgr	1.8360	11000.	132	42757	No
24	GOM_TRA_1PNPDE20100505_022427_000000552089_00118_42757_8908.N1	05-MAY-2010 02:24:27	Straylight	54.500	25	35Lam Sco	1.6200	28000.	109	42757	No
25	GOM_TRA_1PNPDE20100505_022721_000000622089_00118_42757_8909.N1	05-MAY-2010 02:27:21	Straylight	62.000	75	26Eps Sco	2.2910	4250.0	124	42757	No
26	GOM_TRA_1PNPDE20100505_023055_000000642089_00118_42757_8910.N1	05-MAY-2010 02:30:55	Twilight	64.000	16	21Alp Sco	1.0200	3000.0	128	42757	No
27	GOM_TRA_1PNPDE20100505_023259_000000592089_00118_42757_8911.N1	05-MAY-2010 02:32:59	Twilight	58.500	80	7Del Sco	2.3160	30000.	117	42757	No
28	GOM_TRA_1PNPDE20100505_023559_000000422089_00118_42757_8912.N1	05-MAY-2010 02:35:59	Bright	41.500	122	9Alp2Lib	2.7470	9700.0	83	42757	No
29	GOM_TRA_1PNPDE20100505_023809_000000462089_00118_42757_8913.N1	05-MAY-2010 02:38:09	Bright	46.000	104	27Bet Lib	2.6140	13100.	92	42757	No
30	GOM_TRA_1PNPDE20100505_024654_000000412089_00118_42757_8914.N1	05-MAY-2010 02:46:54	Bright	41.000	3	16Alp Boo	-0.050000	4250.0	82	42757	No
31	GOM_TRA_1PNPDE20100505_024952_000000442089_00118_42757_8915.N1	05-MAY-2010 02:49:52	Bright	44.000	83		2.3780	11000.	88	42757	No
32	GOM_TRA_1PNPDE20100505_025255_000000412089_00118_42757_8916.N1	05-MAY-2010 02:52:55	Bright	41.000	180	27Gam Boo	3.0400	8000.0	82	42757	No
33	GOM_TRA_1PNPDE20100505_030219_000000452089_00118_42757_8917.N1	05-MAY-2010 03:02:19	Bright	44.500	119	14Eta Dra	2.7270	4700.0	89	42757	No
34	GOM_TRA_1PNPDE20100505_031253_000000452089_00118_42757_8931.N1	05-MAY-2010 03:12:53	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	42757	No
35	GOM_TRA_1PNPDE20100505_032509_000000602089_00118_42757_8932.N1	05-MAY-2010 03:25:09	Twilight	59.500	93	53Bet Peg	2.5200	3100.0	119	42757	No
36	GOM_TRA_1PNPDE20100505_032916_000000442089_00118_42757_8933.N1	05-MAY-2010 03:29:16	Dark	44.000	90	54Alp Peg	2.4870	11000.	88	42757	No
37	GOM_TRA_1PNPDE20100505_033407_000000262089_00118_42757_8934.N1	05-MAY-2010 03:34:07	Dark	26.000	61	8Eps Peg	2.1000	3900.0	52	42757	No
38	GOM_TRA_1PNPDE20100505_033630_000000602089_00118_42757_8935.N1	05-MAY-2010 03:36:30	Dark	60.000	162	34Alp Aqr	2.9440	5350.0	120	42757	No
39	GOM_TRA_1PNPDE20100505_034040_000000632089_00118_42757_8936.N1	05-MAY-2010 03:40:40	Dark	63.000	154	22Bet Aqr	2.8990	5700.0	126	42757	No
40	GOM_TRA_1PNPDE20100505_034644_000000432089_00118_42757_8937.N1	05-MAY-2010 03:46:44	Dark	42.500	172	Gam Gru	3.0030	13100.	85	42757	No
41	GOM_TRA_1PNPDE20100505_040241_000000642089_00119_42758_8938.N1	05-MAY-2010 04:02:41	Straylight	64.000	38	20Eps Sgr	1.8360	11000.	128	42758	No
42	GOM_TRA_1PNPDE20100505_040504_000000592089_00119_42758_8939.N1	05-MAY-2010 04:05:04	Straylight	59.000	25	35Lam Sco	1.6200	28000.	118	42758	No
43	GOM_TRA_1PNPDE20100505_040757_000000592089_00119_42758_8940.N1	05-MAY-2010 04:07:57	Straylight	58.500	75	26Eps Sco	2.2910	4250.0	117	42758	No
44	GOM_TRA_1PNPDE20100505_041131_000000762089_00119_42758_8941.N1	05-MAY-2010 04:11:31	Twilight	76.000	16	21Alp Sco	1.0200	3000.0	152	42758	No
45	GOM_TRA_1PNPDE20100505_041336_000000582089_00119_42758_8942.N1	05-MAY-2010 04:13:36	Twilight	58.000	80	7Del Sco	2.3160	30000.	116	42758	No
46	GOM_TRA_1PNPDE20100505_041635_000000422089_00119_42758_8943.N1	05-MAY-2010 04:16:35	Bright	41.500	122	9Alp2Lib	2.7470	9700.0	83	42758	No
47	GOM_TRA_1PNPDE20100505_041844_000000452089_00119_42758_8944.N1	05-MAY-2010 04:18:44	Bright	45.000	104	27Bet Lib	2.6140	13100.	90	42758	No
48	GOM_TRA_1PNPDE20100505_042513_000000292089_00119_42758_8945.N1	05-MAY-2010 04:25:13	Twilight	29.000	102	24Alp Ser	2.6000	4250.0	58	42758	No
49	GOM_TRA_1PNPDE20100505_042730_000000402089_00119_42758_8946.N1	05-MAY-2010 04:27:30	Bright	40.000	3	16Alp Boo	-0.050000	4250.0	80	42758	No
50	GOM_TRA_1PNPDE20100505_043028_000000442089_00119_42758_8947.N1	05-MAY-2010 04:30:28	Bright	43.500	83		2.3780	11000.	87	42758	No
51	GOM_TRA_1PNPDE20100505_043331_000000412089_00119_42758_8948.N1	05-MAY-2010 04:33:31	Bright	41.000	180	27Gam Boo	3.0400	8000.0	82	42758	No
52	GOM_TRA_1PNPDE20100505_044255_000000452089_00119_42758_8949.N1	05-MAY-2010 04:42:55	Bright	44.500	119	14Eta Dra	2.7270	4700.0	89	42758	No
53	GOM_TRA_1PNPDE20100505_045329_000000422089_00119_42758_8958.N1	05-MAY-2010 04:53:29	Bright	42.000	89	5Alp Cep	2.4510	8000.0	84	42758	No
54	GOM_TRA_1PNPDE20100505_050546_000000492089_00119_42758_8959.N1	05-MAY-2010 05:05:46	Twilight	49.000	93	53Bet Peg	2.5200	3100.0	98	42758	No
55	GOM_TRA_1PNPDE20100505_050952_000000472089_00119_42758_8960.N1	05-MAY-2010 05:09:52	Dark	47.000	90	54Alp Peg	2.4870	11000.	94	42758	No
56	GOM_TRA_1PNPDE20100505_051707_000000582089_00119_42758_8961.N1	05-MAY-2010 05:17:07	Dark	57.500	162	34Alp Aqr	2.9440	5350.0	115	42758	No
57	GOM_TRA_1PNPDE20100505_052117_000000562089_00119_42758_8962.N1	05-MAY-2010 05:21:17	Dark	56.000	154	22Bet Aqr	2.8990	5700.0	112	42758	No
58	GOM_TRA_1PNPDE20100505_052721_000000432089_00119_42758_8963.N1	05-MAY-2010 05:27:21	Dark	42.500	172	Gam Gru	3.0030	13100.	85	42758	No
59	GOM_TRA_1PNPDE20100505_054318_000000752089_00120_42759_8964.N1	05-MAY-2010 05:43:18	Straylight	74.500	38	20Eps Sgr	1.8360	11000.	149	42759	No
60	GOM_TRA_1PNPDE20100505_054540_000000622089_00120_42759_8965.N1	05-MAY-2010 05:45:40	Straylight	61.500	25	35Lam Sco	1.6200	28000.	123	42759	No
61	GOM_TRA_1PNPDE20100505_054834_000000622089_00120_42759_8966.N1	05-MAY-2010 05:48:34	Straylight	61.500	75	26Eps Sco	2.2910	4250.0	123	42759	No
62	GOM_TRA_1PNPDE20100505_055208_000000682089_00120_42759_8967.N1	05-MAY-2010 05:52:08	Twilight	68.000	16	21Alp Sco	1.0200	3000.0	136	42759	No
63	GOM_TRA_1PNPDE20100505_055412_000000592089_00120_42759_8968.N1	05-MAY-2010 05:54:12	Twilight	59.000	80	7Del Sco	2.3160	30000.	118	42759	No
64	GOM_TRA_1PNPDE20100505_055712_000000422089_00120_42759_8969.N1	05-MAY-2010 05:57:12	Bright	42.000	122	9Alp2Lib	2.7470	9700.0	84	42759	No
65	GOM_TRA_1PNPDE20100505_055920_000000472089_00120_42759_8970.N1	05-MAY-2010 05:59:20	Bright	46.500	104	27Bet Lib	2.6140	13100.	93	42759	No
66	GOM_TRA_1PNPDE20100505_060549_000000292089_00120_42759_8971.N1	05-MAY-2010 06:05:49	Twilight	29.000	102	24Alp Ser	2.6000	4250.0	58	42759	No
67	GOM_TRA_1PNPDE20100505_060806_000000392089_00120_42759_8972.N1	05-MAY-2010 06:08:06	Bright	38.500	3	16Alp Boo	-0.050000	4250.0	77	42759	No
68	GOM_TRA_1PNPDE20100505_061103_000000462089_00120_42759_8973.N1	05-MAY-2010 06:11:03	Bright	45.500	83		2.3780	11000.	91	42759	No

69	GOM_TRA_1PNPDE20100505_061407_000000402089_00120_42759_8974.N1	05-MAY-2010 06:14:07	Bright	40.000	180	27Gam Boo	3.0400	8000.0	80	42759	No
70	GOM_TRA_1PNPDE20100505_062330_000000452089_00120_42759_8975.N1	05-MAY-2010 06:23:30	Bright	44.500	119	14Eta Dra	2.7270	4700.0	89	42759	No
71	GOM_TRA_1PNPDE20100505_204853_000000712089_00129_42768_9072.N1	05-MAY-2010 20:48:53	Straylight	70.500	38	20Eps Sgr	1.8360	11000.	141	42768	Yes
72	GOM_TRA_1PNPDE20100505_205112_000000582089_00129_42768_9073.N1	05-MAY-2010 20:51:12	Straylight	58.000	25	35Lam Sco	1.6200	28000.	116	42768	No
73	GOM_TRA_1PNPDE20100505_205403_000000562089_00129_42768_9074.N1	05-MAY-2010 20:54:03	Straylight	56.000	75	26Eps Sco	2.2910	4250.0	112	42768	No
74	GOM_TRA_1PNPDE20100505_205735_000000622089_00129_42768_9075.N1	05-MAY-2010 20:57:35	Twilight_stray	62.000	16	21Alp Sco	1.0200	3000.0	124	42768	No
75	GOM_TRA_1PNPDE20100505_205937_000000592089_00129_42768_9076.N1	05-MAY-2010 20:59:37	Twilight_stray	59.000	80	7Del Sco	2.3160	30000.	118	42768	No
76	GOM_TRA_1PNPDE20100505_210236_000000472089_00129_42768_9077.N1	05-MAY-2010 21:02:36	Bright	46.500	122	9Alp2Lib	2.7470	9700.0	93	42768	No
77	GOM_TRA_1PNPDE20100505_210444_000000462089_00129_42768_9078.N1	05-MAY-2010 21:04:44	Bright	45.500	104	27Bet Lib	2.6140	13100.	91	42768	No
78	GOM_TRA_1PNPDE20100505_211107_000000552089_00129_42768_9079.N1	05-MAY-2010 21:11:07	Bright	55.000	102	24Alp Ser	2.6000	4250.0	110	42768	No
79	GOM_TRA_1PNPDE20100505_211327_000000382089_00129_42768_9080.N1	05-MAY-2010 21:13:27	Bright	38.000	3	16Alp Boo	-0.050000	4250.0	76	42768	No
80	GOM_TRA_1PNPDE20100505_211623_000000422089_00129_42768_9081.N1	05-MAY-2010 21:16:23	Bright	42.000	83		2.3780	11000.	84	42768	No
81	GOM_TRA_1PNPDE20100505_211927_000000412089_00129_42768_9082.N1	05-MAY-2010 21:19:27	Bright	40.500	180	27Gam Boo	3.0400	8000.0	81	42768	No
82	GOM_TRA_1PNPDE20100505_212848_000000442089_00129_42768_9083.N1	05-MAY-2010 21:28:48	Bright	44.000	119	14Eta Dra	2.7270	4700.0	88	42768	No
83	GOM_TRA_1PNPDE20100505_213925_000000402089_00129_42768_9084.N1	05-MAY-2010 21:39:25	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	42768	No
84	GOM_TRA_1PNPDE20100505_215147_000000542089_00129_42768_9085.N1	05-MAY-2010 21:51:47	Twilight_stray	53.500	93	53Bet Peg	2.5200	3100.0	107	42768	No
85	GOM_TRA_1PNPDE20100505_215555_000000502089_00129_42768_9086.N1	05-MAY-2010 21:55:55	Dark	50.000	90	54Alp Peg	2.4870	11000.	100	42768	No
86	GOM_TRA_1PNPDE20100505_220316_000000612089_00129_42768_9092.N1	05-MAY-2010 22:03:16	Dark	61.000	162	34Alp Aqr	2.9440	5350.0	122	42768	No
87	GOM_TRA_1PNPDE20100505_221328_000000442089_00129_42768_9093.N1	05-MAY-2010 22:13:28	Dark	43.500	172	Gam Gru	3.0030	13100.	87	42768	No
88	GOM_TRA_1PNPDE20100505_222930_000000652089_00130_42769_9094.N1	05-MAY-2010 22:29:30	Straylight	65.000	38	20Eps Sgr	1.8360	11000.	130	42769	No
89	GOM_TRA_1PNPDE20100505_223148_000000562089_00130_42769_9095.N1	05-MAY-2010 22:31:48	Straylight	56.000	25	35Lam Sco	1.6200	28000.	112	42769	No
90	GOM_TRA_1PNPDE20100505_223440_000000582089_00130_42769_9096.N1	05-MAY-2010 22:34:40	Straylight	58.000	75	26Eps Sco	2.2910	4250.0	116	42769	No
91	GOM_TRA_1PNPDE20100505_223811_000000752089_00130_42769_9097.N1	05-MAY-2010 22:38:11	Twilight_stray	74.500	16	21Alp Sco	1.0200	3000.0	149	42769	No
92	GOM_TRA_1PNPDE20100505_224014_000000612089_00130_42769_9098.N1	05-MAY-2010 22:40:14	Twilight_stray	60.500	80	7Del Sco	2.3160	30000.	121	42769	No
93	GOM_TRA_1PNPDE20100505_224312_000000412089_00130_42769_9099.N1	05-MAY-2010 22:43:12	Bright	40.500	122	9Alp2Lib	2.7470	9700.0	81	42769	No
94	GOM_TRA_1PNPDE20100505_224520_000000452089_00130_42769_9100.N1	05-MAY-2010 22:45:20	Bright	44.500	104	27Bet Lib	2.6140	13100.	89	42769	No
95	GOM_TRA_1PNPDE20100505_225142_000000562089_00130_42769_9101.N1	05-MAY-2010 22:51:42	Bright	56.000	102	24Alp Ser	2.6000	4250.0	112	42769	No
96	GOM_TRA_1PNPDE20100505_225403_000000412089_00130_42769_9102.N1	05-MAY-2010 22:54:03	Bright	40.500	3	16Alp Boo	-0.050000	4250.0	81	42769	No
97	GOM_TRA_1PNPDE20100505_225659_000000462089_00130_42769_9103.N1	05-MAY-2010 22:56:59	Bright	45.500	83		2.3780	11000.	91	42769	No
98	GOM_TRA_1PNPDE20100505_230003_000000402089_00130_42769_9104.N1	05-MAY-2010 23:00:03	Bright	39.500	180	27Gam Boo	3.0400	8000.0	79	42769	No
99	GOM_TRA_1PNPDE20100505_230923_000000442089_00130_42769_9105.N1	05-MAY-2010 23:09:23	Bright	44.000	119	14Eta Dra	2.7270	4700.0	88	42769	No
100	GOM_TRA_1PNPDE20100505_232000_000000452089_00130_42769_9106.N1	05-MAY-2010 23:20:00	Bright	44.500	89	5Alp Cep	2.4510	8000.0	89	42769	No
101	GOM_TRA_1PNPDE20100505_233223_000000522089_00130_42769_9107.N1	05-MAY-2010 23:32:23	Twilight_stray	51.500	93	53Bet Peg	2.5200	3100.0	103	42769	No
102	GOM_TRA_1PNPDE20100505_233631_000000482089_00130_42769_9108.N1	05-MAY-2010 23:36:31	Dark	47.500	90	54Alp Peg	2.4870	11000.	95	42769	No
103	GOM_TRA_1PNPDE20100505_234353_000000592089_00130_42769_9110.N1	05-MAY-2010 23:43:53	Dark	58.500	162	34Alp Aqr	2.9440	5350.0	117	42769	No
104	GOM_TRA_1PNPDE20100505_235405_000000432089_00130_42769_9111.N1	05-MAY-2010 23:54:05	Dark	43.000	172	Gam Gru	3.0030	13100.	86	42769	No

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



4. Overview of dark signal processing per product

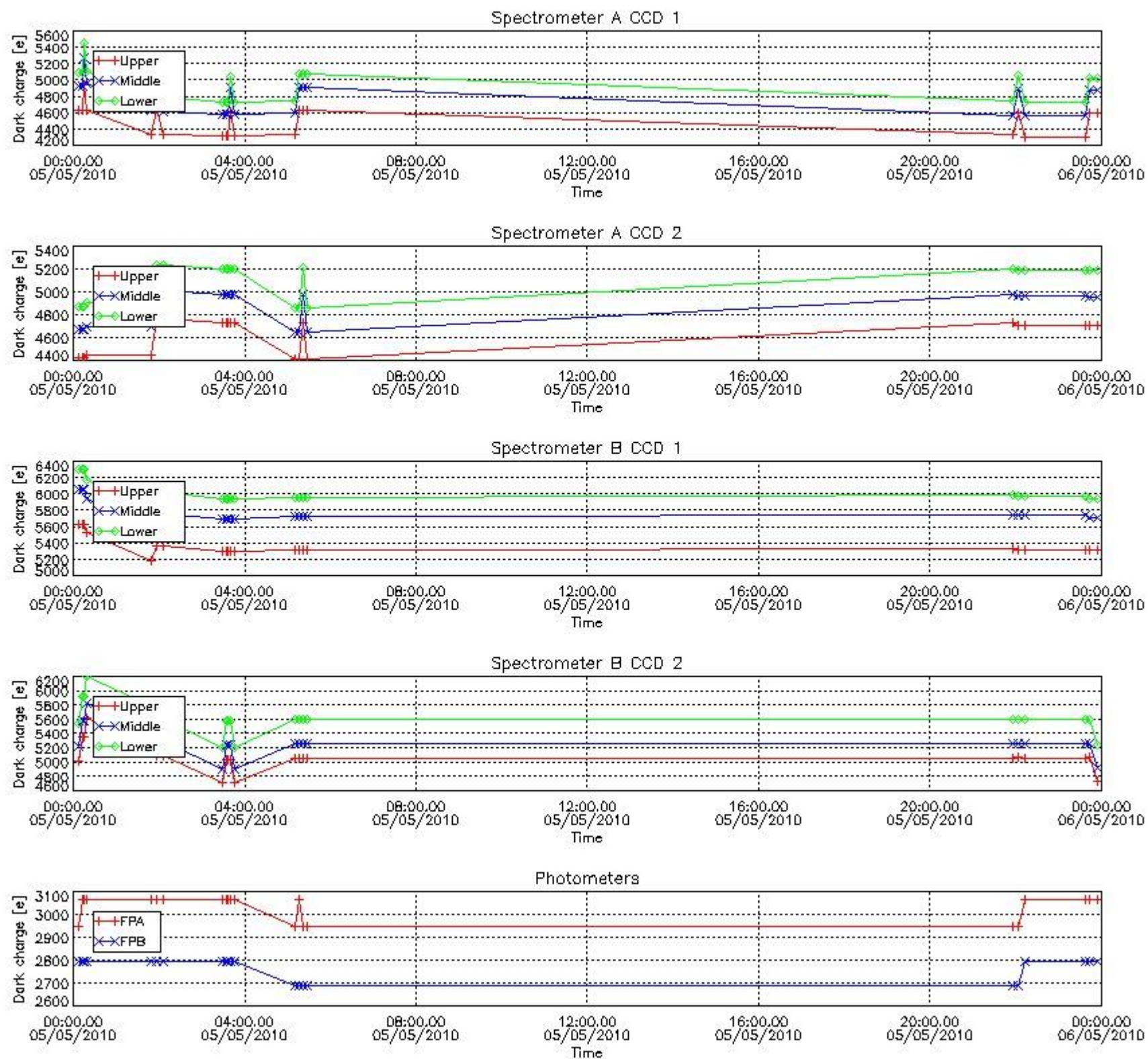
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20100505_204853_000000712089_00129_42768_9072.N1	DC map with no T dep.
GOM_TRA_1PNPDE20100505_205112_000000582089_00129_42768_9073.N1	DC map used
GOM_TRA_1PNPDE20100505_205403_000000562089_00129_42768_9074.N1	DC map used
GOM_TRA_1PNPDE20100505_205735_000000622089_00129_42768_9075.N1	DC map used
GOM_TRA_1PNPDE20100505_205937_000000592089_00129_42768_9076.N1	DC map used
GOM_TRA_1PNPDE20100505_210236_000000472089_00129_42768_9077.N1	DC map used
GOM_TRA_1PNPDE20100505_210444_000000462089_00129_42768_9078.N1	DC map used
GOM_TRA_1PNPDE20100505_211107_000000552089_00129_42768_9079.N1	DC map used
GOM_TRA_1PNPDE20100505_211327_000000382089_00129_42768_9080.N1	DC map used
GOM_TRA_1PNPDE20100505_211623_000000422089_00129_42768_9081.N1	DC map used
GOM_TRA_1PNPDE20100505_211927_000000412089_00129_42768_9082.N1	DC map used
GOM_TRA_1PNPDE20100505_212848_000000442089_00129_42768_9083.N1	DC map used
GOM_TRA_1PNPDE20100505_213925_000000402089_00129_42768_9084.N1	DC map used
GOM_TRA_1PNPDE20100505_215147_000000542089_00129_42768_9085.N1	DC map used

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



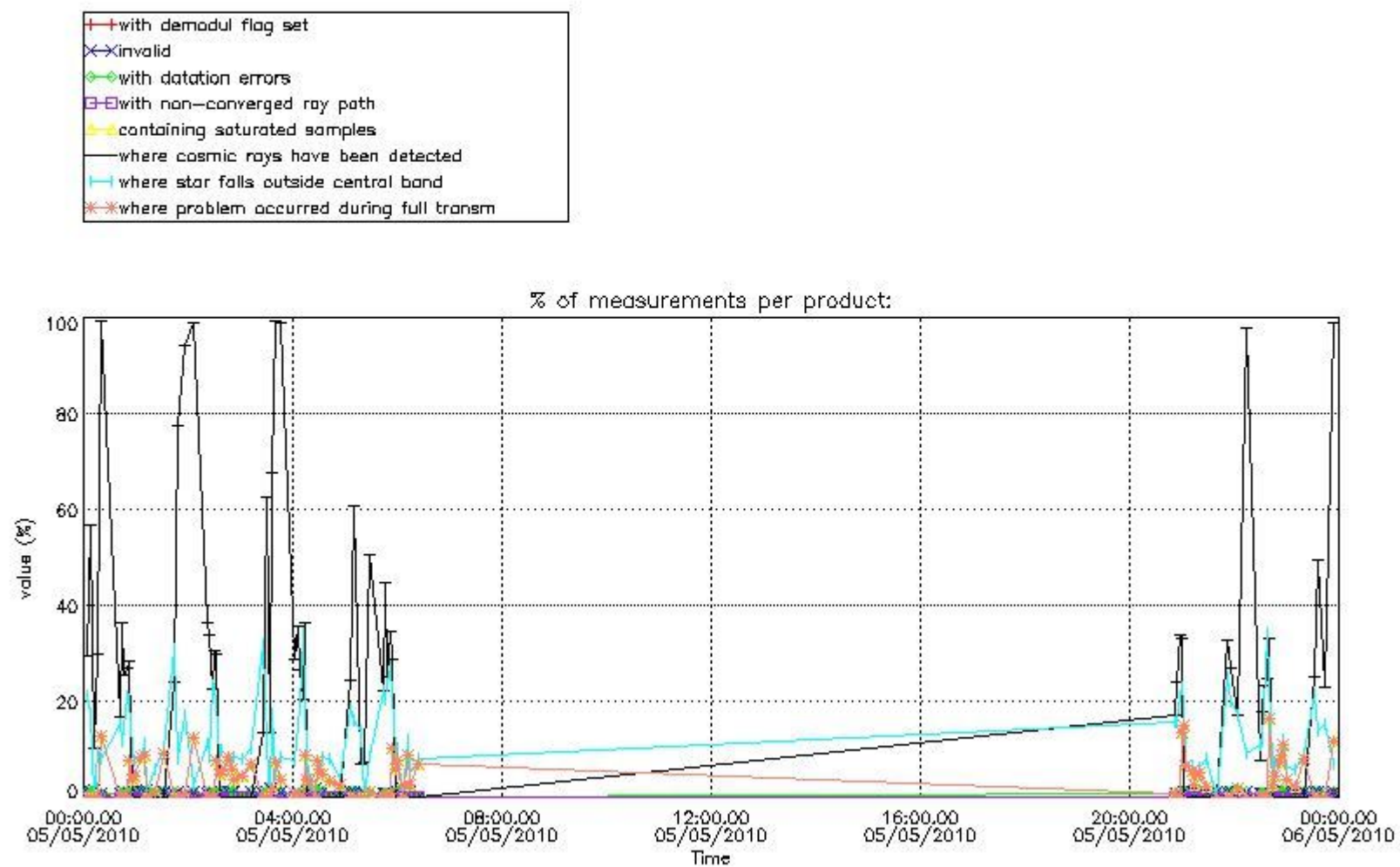
5. Demodulation flag and quality information monitoring

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.

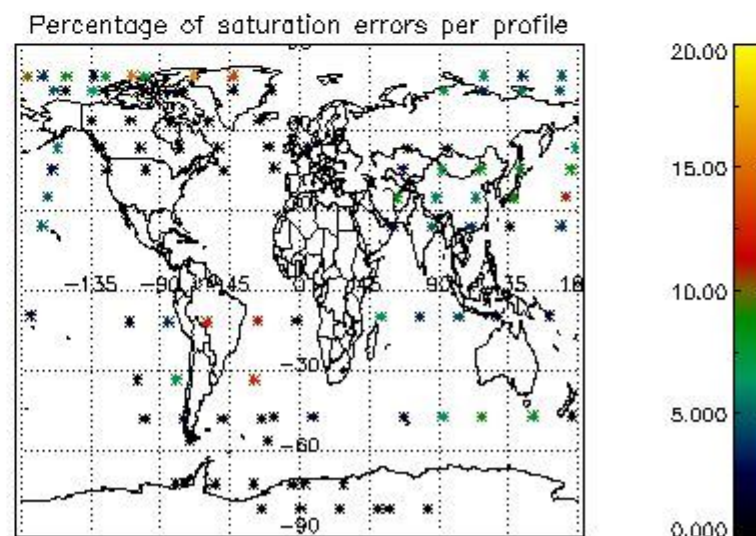
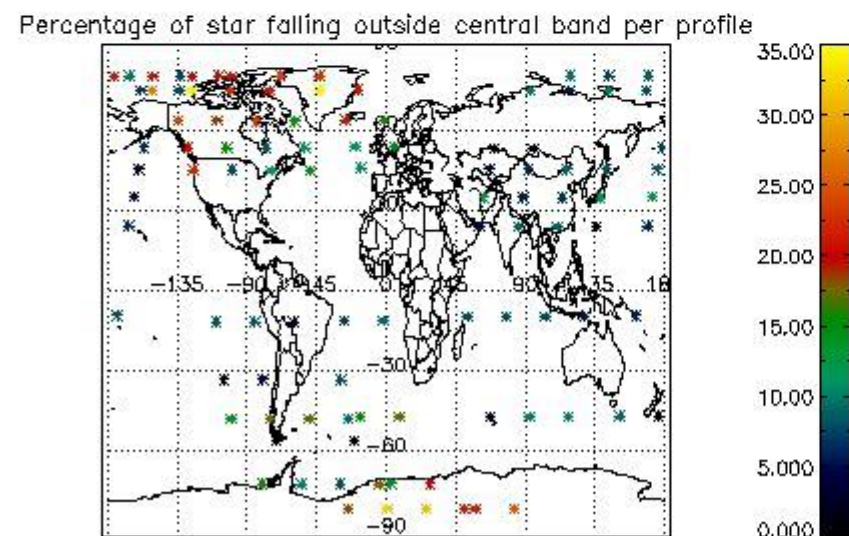
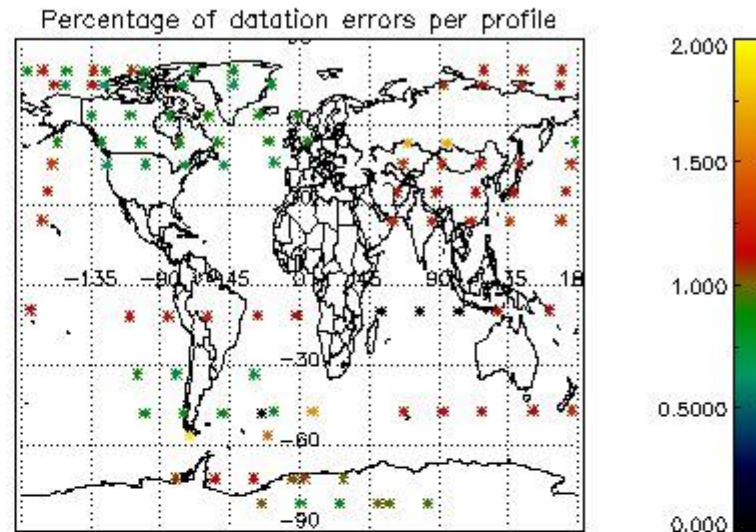
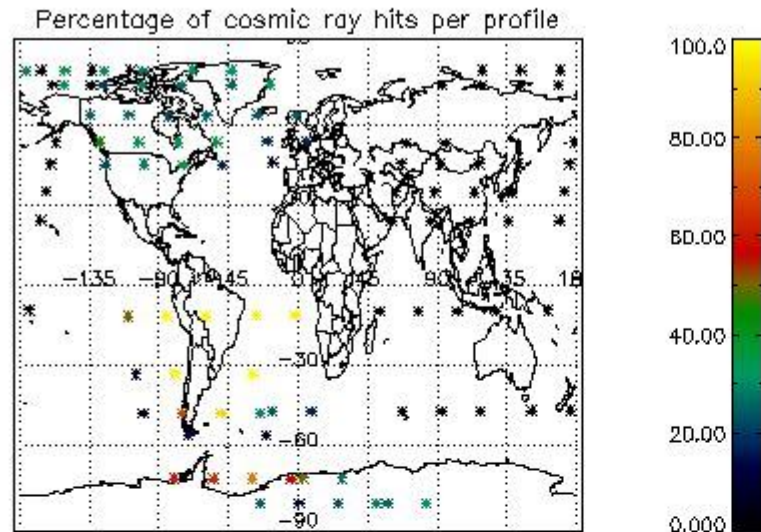
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	53.9216 %
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)



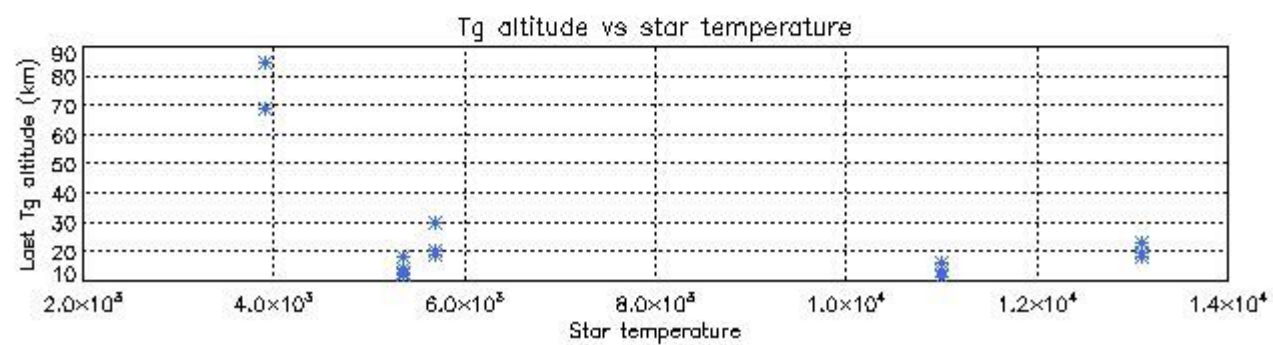
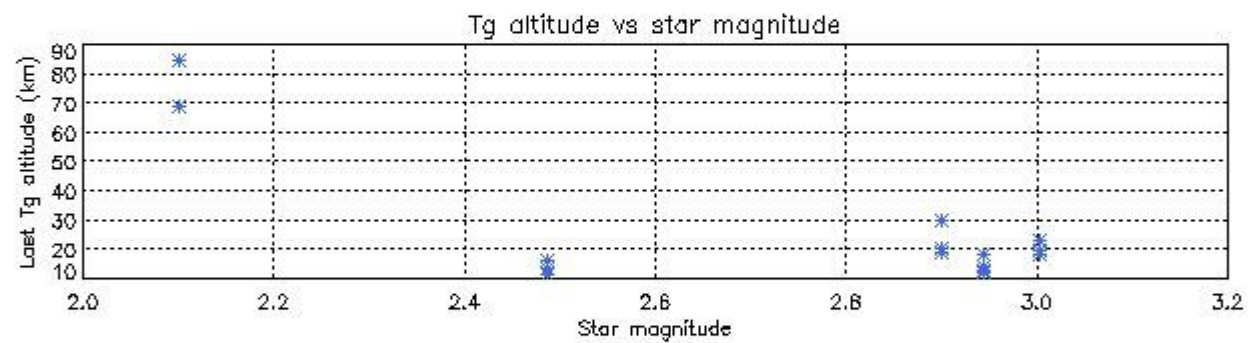
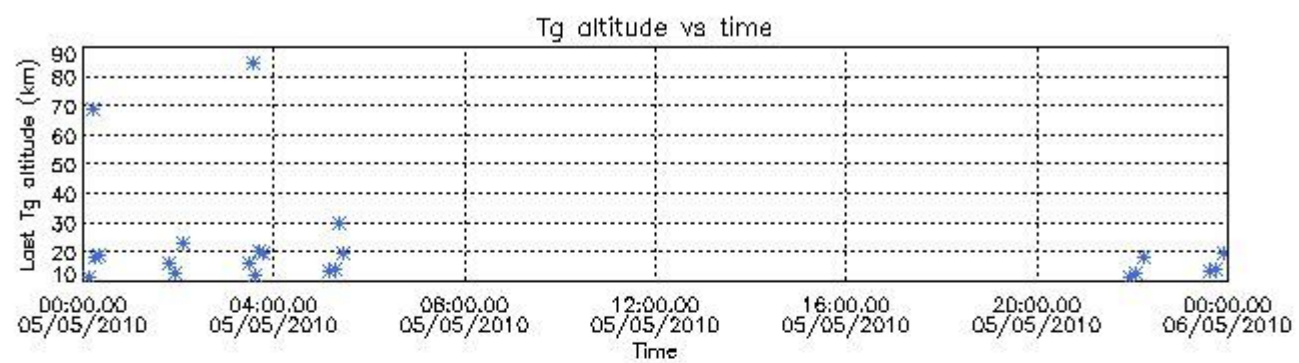
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	22.272	20.062	NaN
St. deviation:	18.297	2.3746	NaN
Maximum:	84.335	27.016	NaN
Minimum:	11.157	12.841	NaN
Number of data:	22.000	43.000	NaN

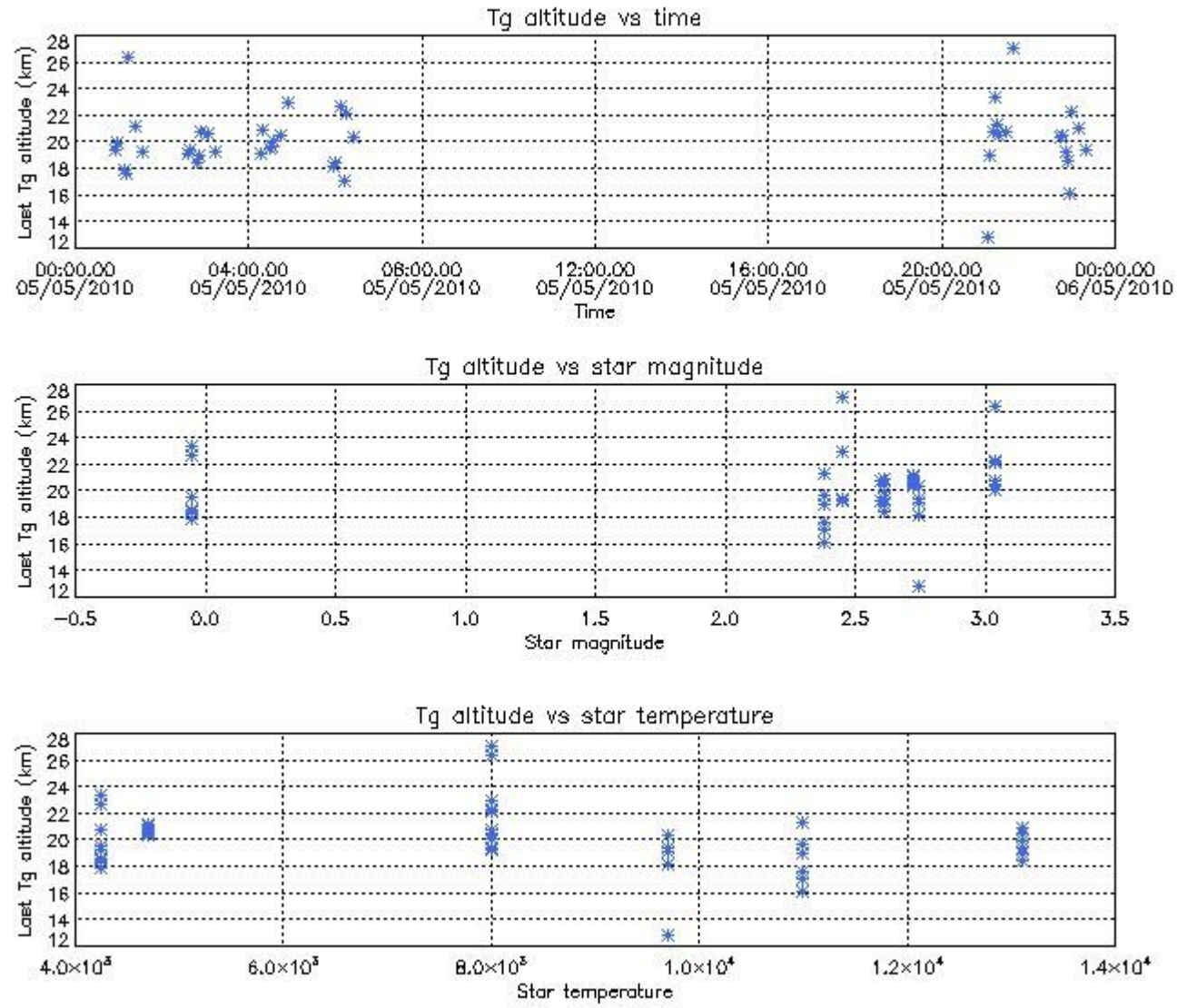
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

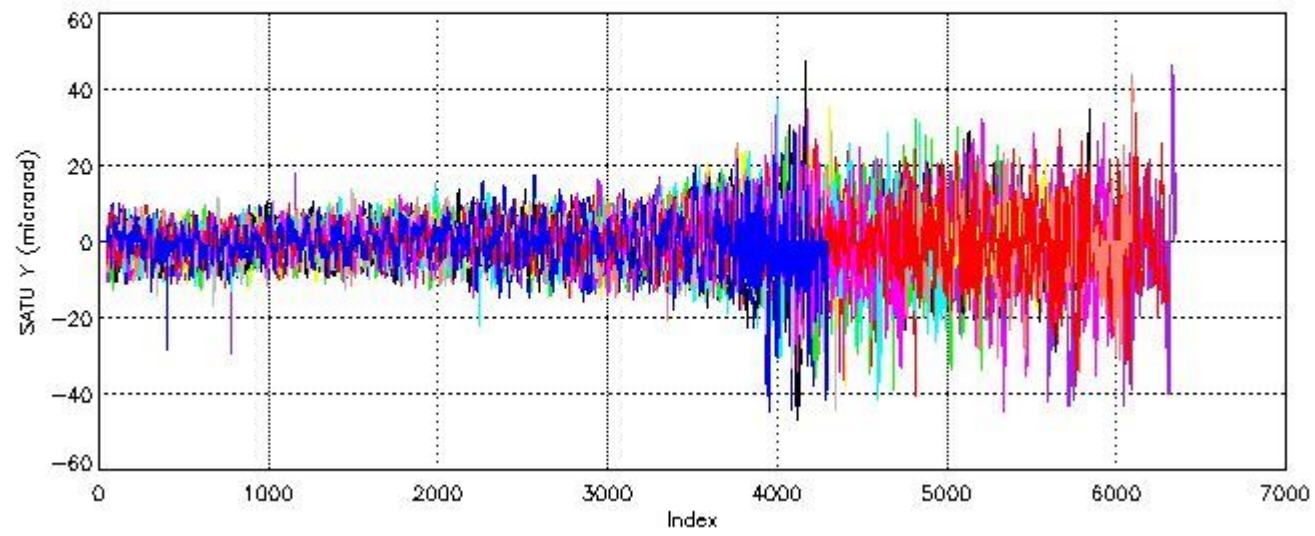
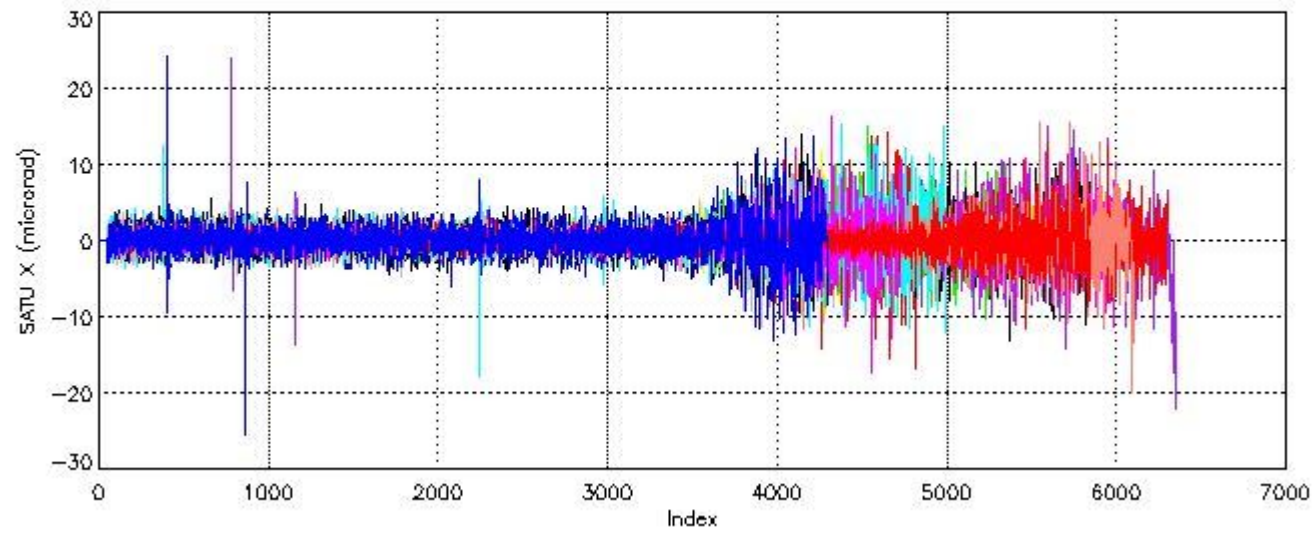


7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

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

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.24234	-0.60461	0.28430	-0.80919
St. deviation:	0.92254	3.3481	0.88883	3.4797
Maximum:	24.100	18.100	5.9000	12.700
Minimum:	-25.400	-29.700	-6.0000	-15.400

Number of data:	25950.	25950.	44150.	44150.
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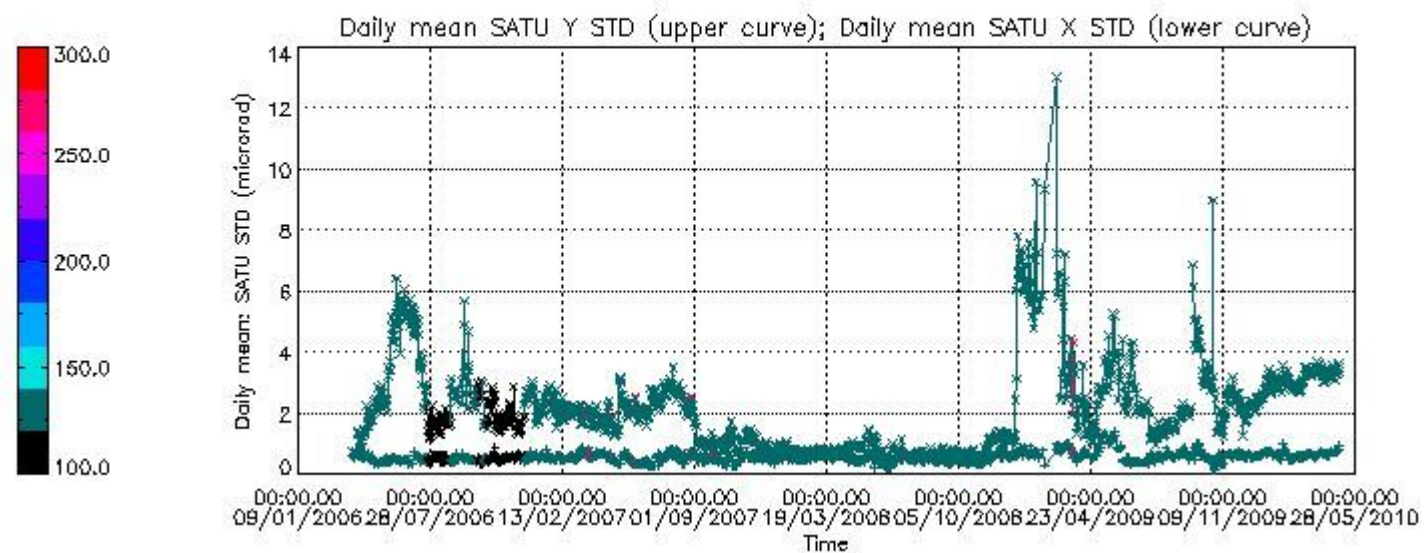
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

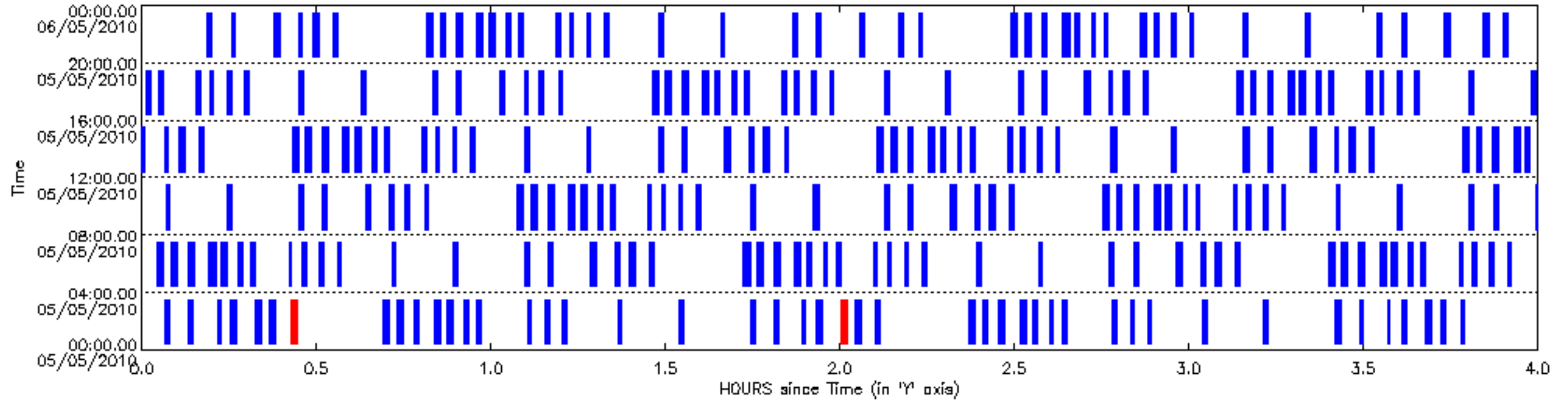
Lower curve: STD of SATU X axis

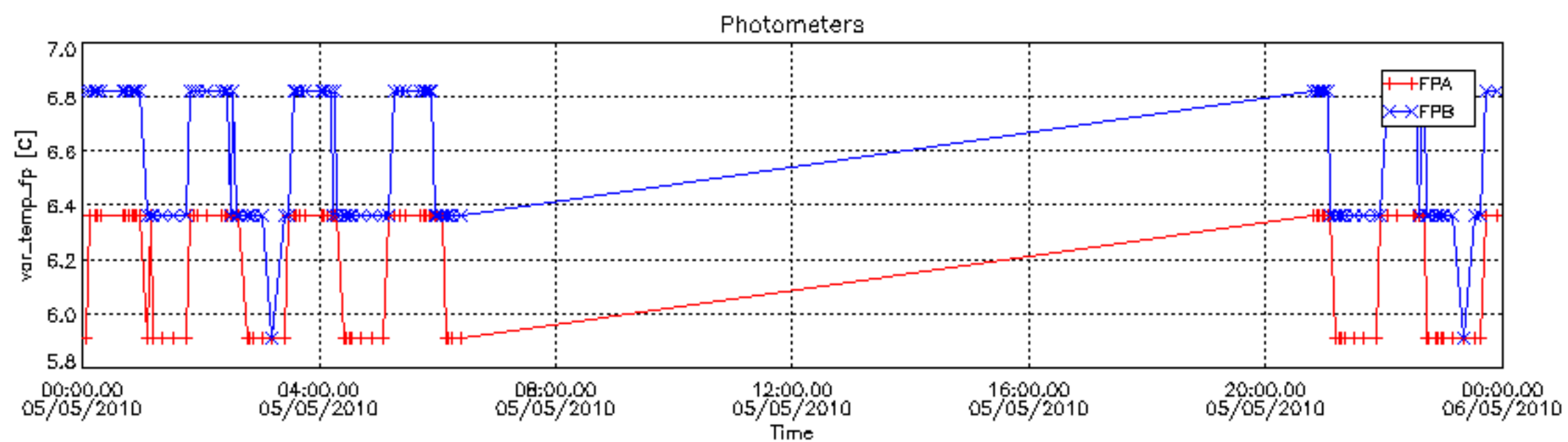
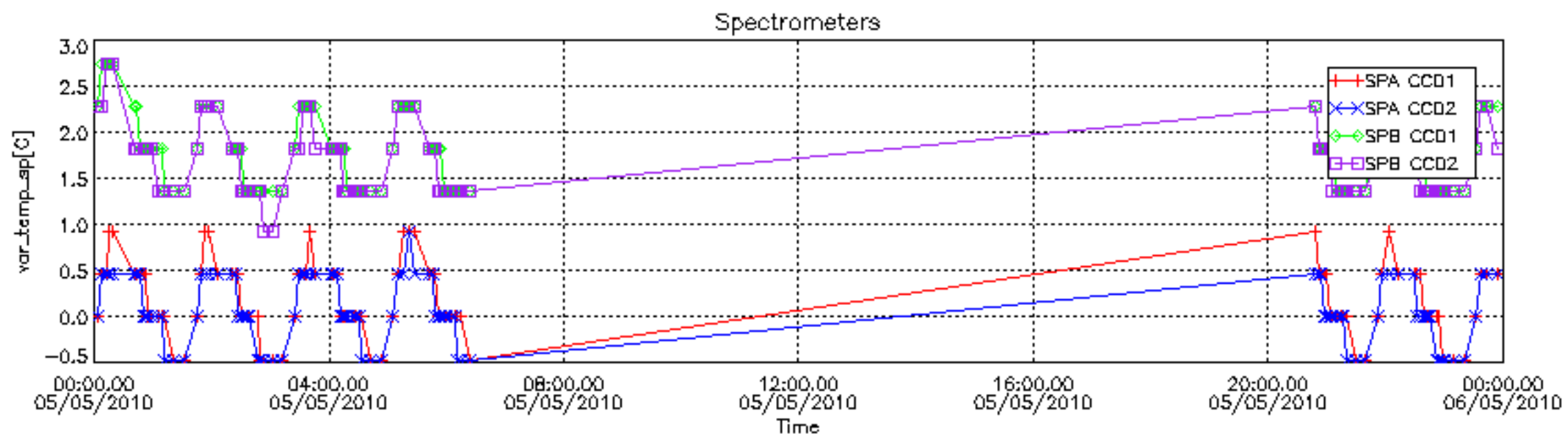


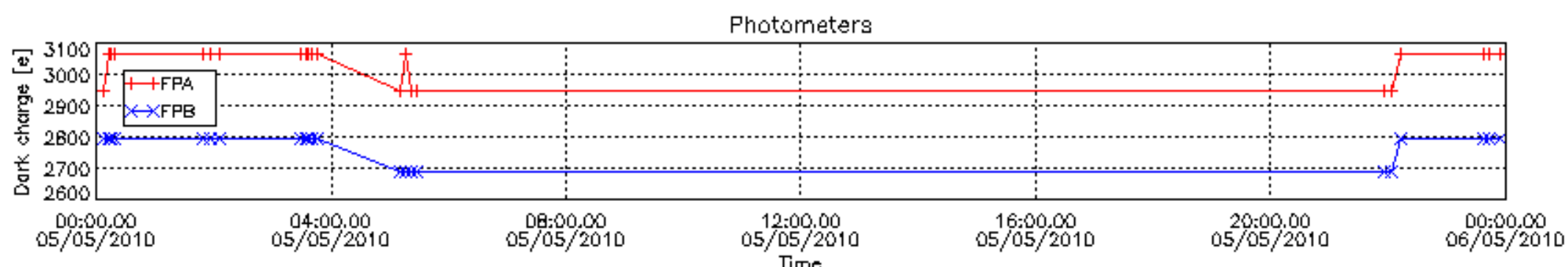
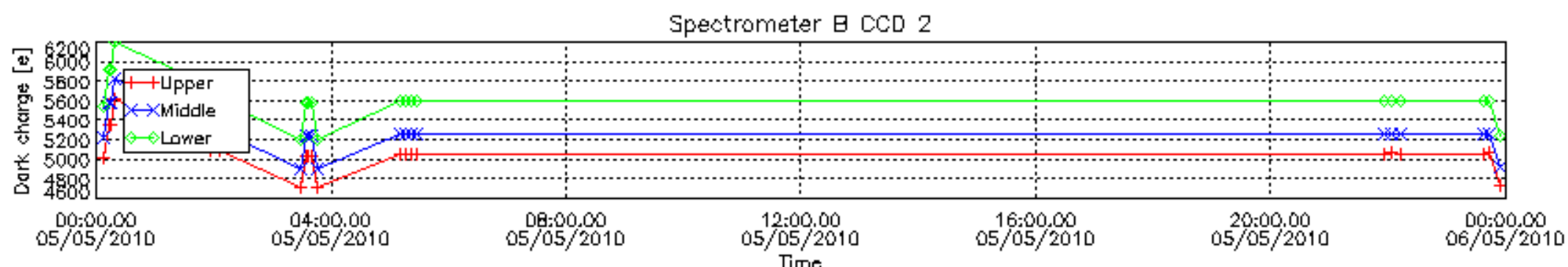
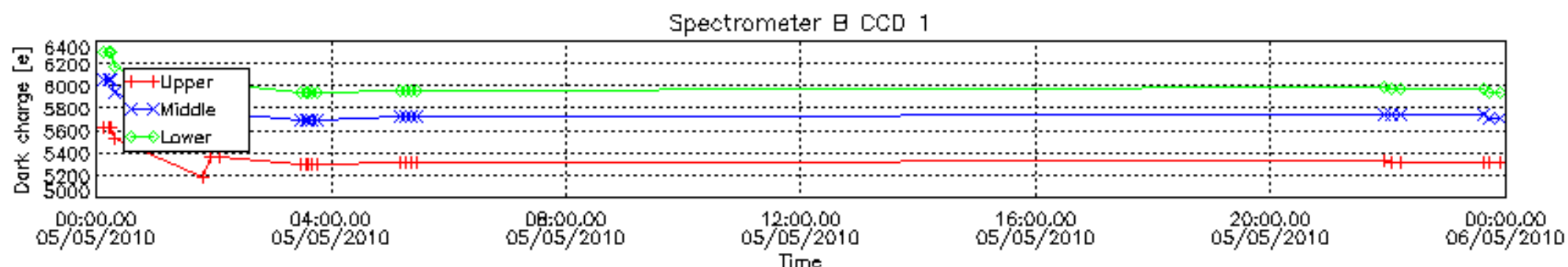
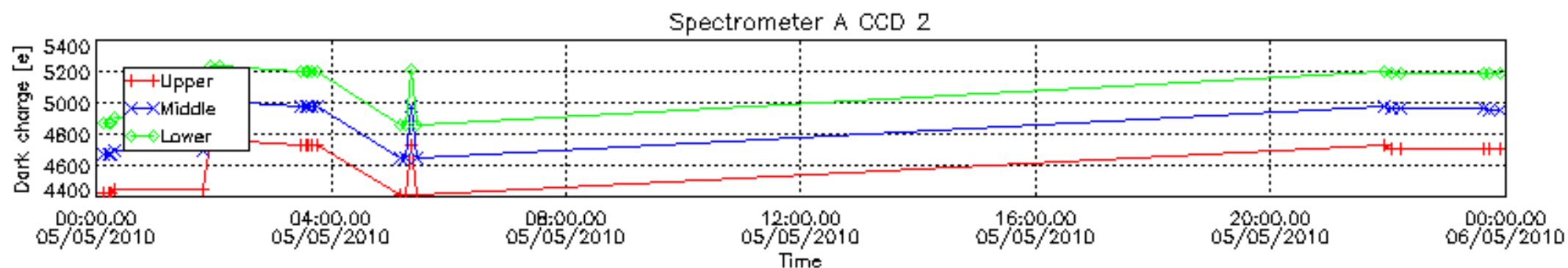
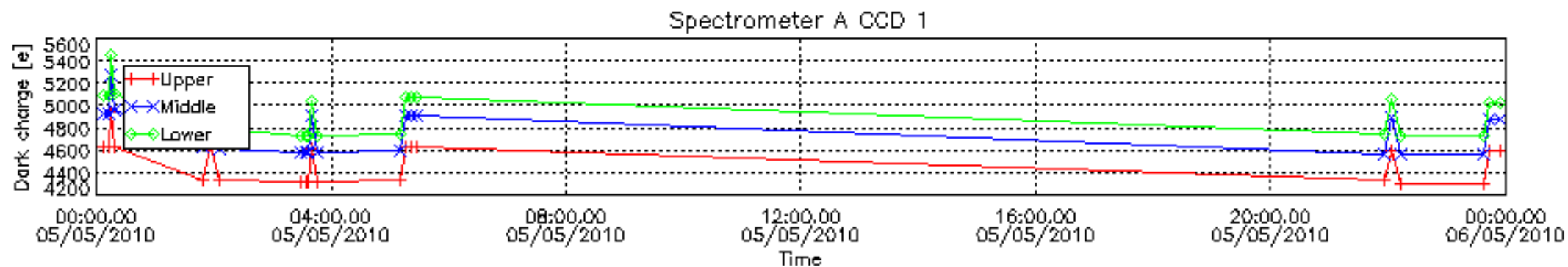
8. Auxiliary Data Files used for the production reported in section 2.4

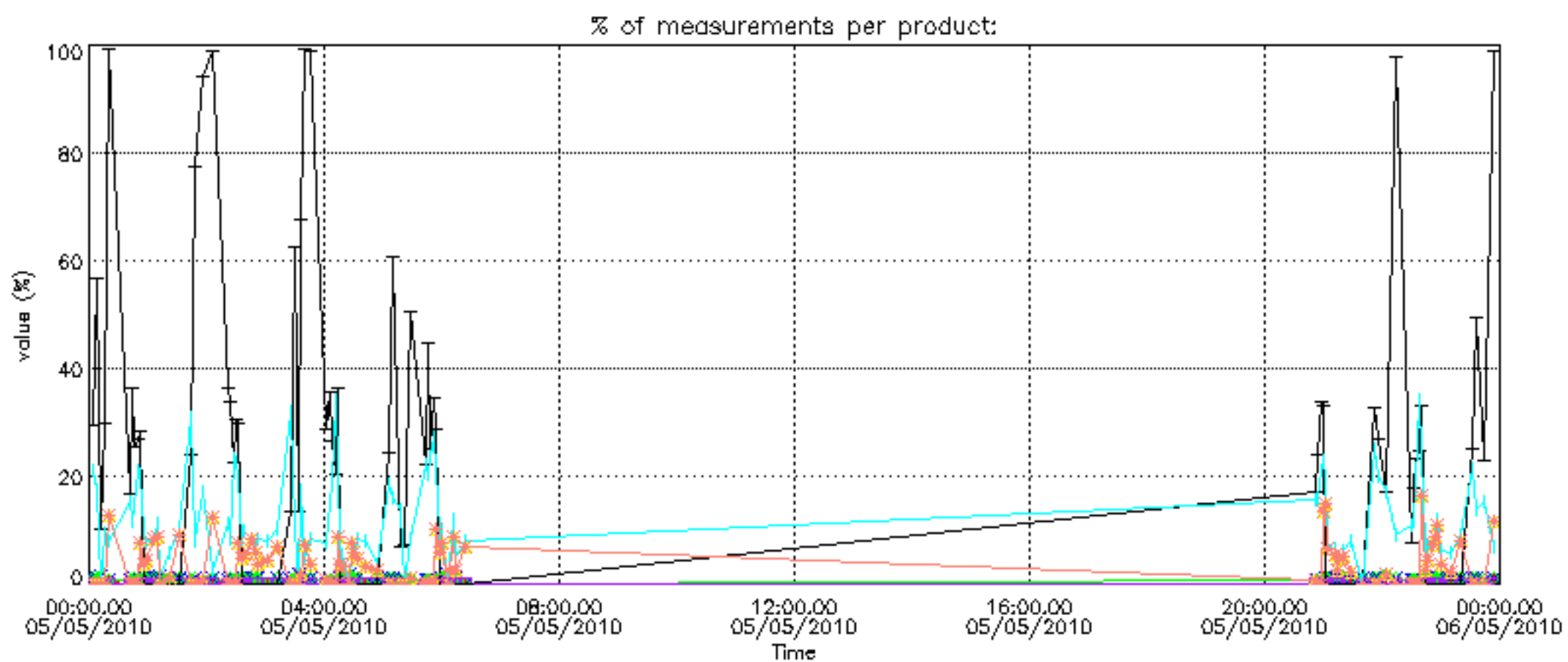
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	05-MAY-2010 00:03:58
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100504_084318_20100501_000000_20500101_000000	1	05-MAY-2010 00:03:58
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	05-MAY-2010 00:03:58
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	05-MAY-2010 00:03:58
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	05-MAY-2010 00:03:58
ECMWF_FILE	AUX_ECF_AXNECM20100504_052117_20100504_210000_20100505_090000	1	05-MAY-2010 00:03:58
ECMWF_FILE	AUX_ECF_AXNECM20100504_172117_20100505_030000_20100505_150000	34	05-MAY-2010 03:12:53
ECMWF_FILE	AUX_ECA_AXNECM20100505_053724_20100504_210000_20100505_090000	53	05-MAY-2010 04:53:29
ECMWF_FILE	AUX_ECF_AXNECM20100505_053725_20100505_150000_20100506_030000	71	05-MAY-2010 20:48:53
ECMWF_FILE	AUX_ECF_AXNECM20100505_053726_20100505_210000_20100506_090000	86	05-MAY-2010 22:03:16
OPTIONAL_ECMWF_FILE	MISSING	1	05-MAY-2010 00:03:58
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100504_223600_000057382089_00115_42754_0287.N1	1	05-MAY-2010 00:03:58
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100504_100115_20100503_195836_20100513_212450	5	05-MAY-2010 00:19:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100505_015235_000041442089_00117_42756_0289.N1	20	05-MAY-2010 01:53:30
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100505_030658_000057382089_00118_42757_0290.N1	34	05-MAY-2010 03:12:53
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100504_100115_20100503_195836_20100513_212450	53	05-MAY-2010 04:53:29
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100505_204936_000041442089_00129_42768_0292.N1	71	05-MAY-2010 20:48:53
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100505_215840_000057382089_00129_42768_0293.N1	86	05-MAY-2010 22:03:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100505_233937_000057382089_00130_42769_0294.N1	103	05-MAY-2010 23:43:53

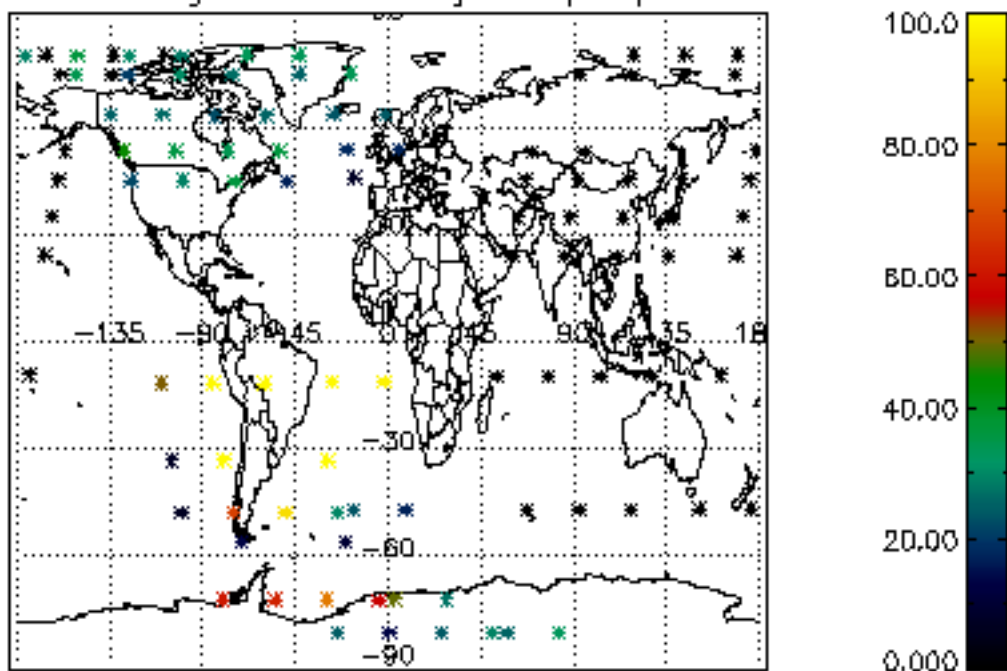




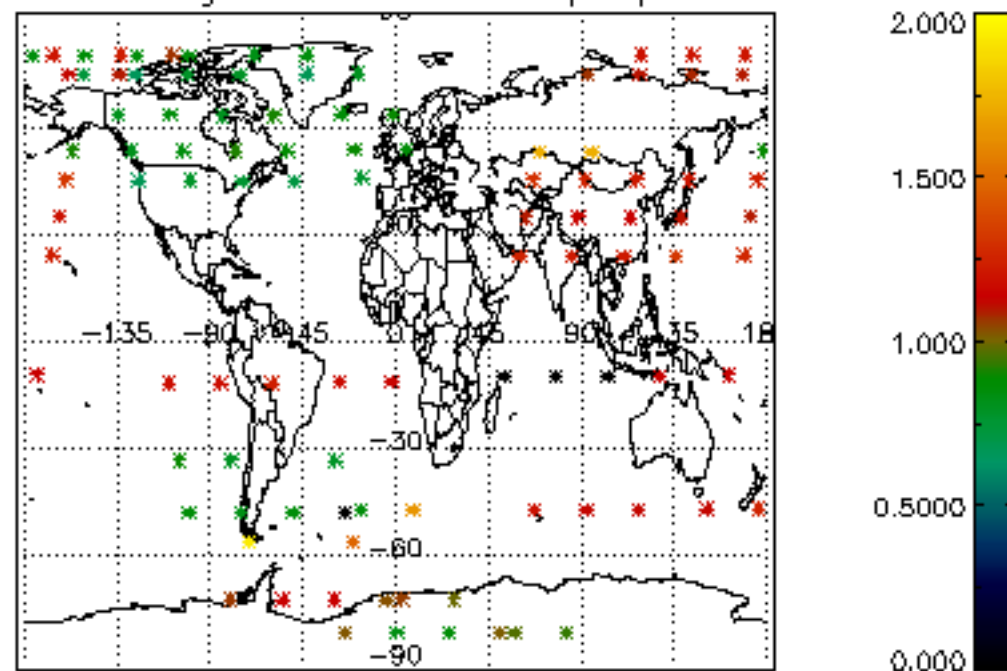




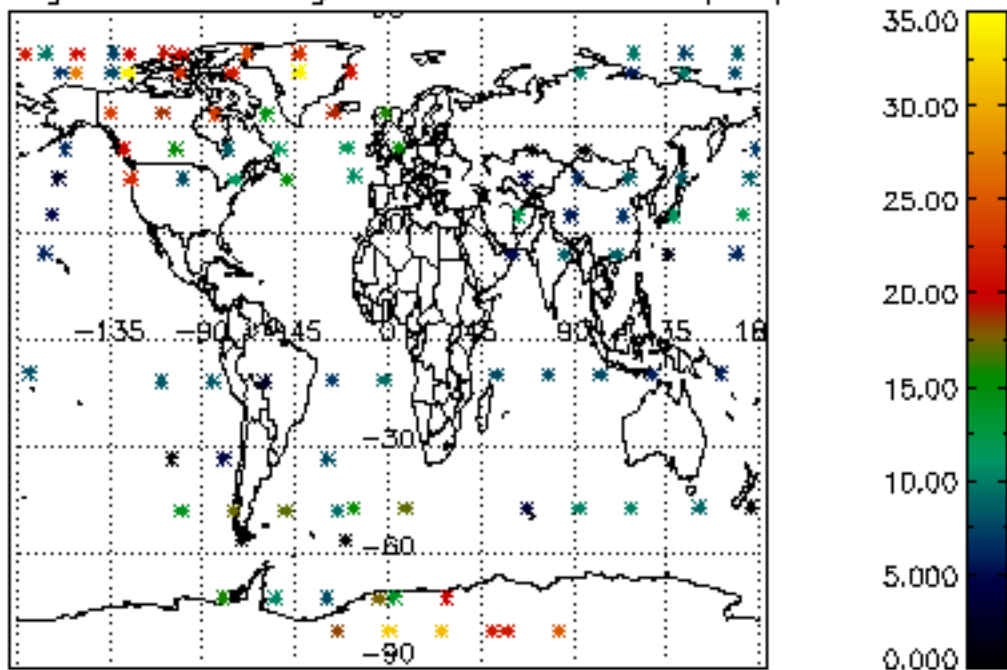
Percentage of cosmic ray hits per profile



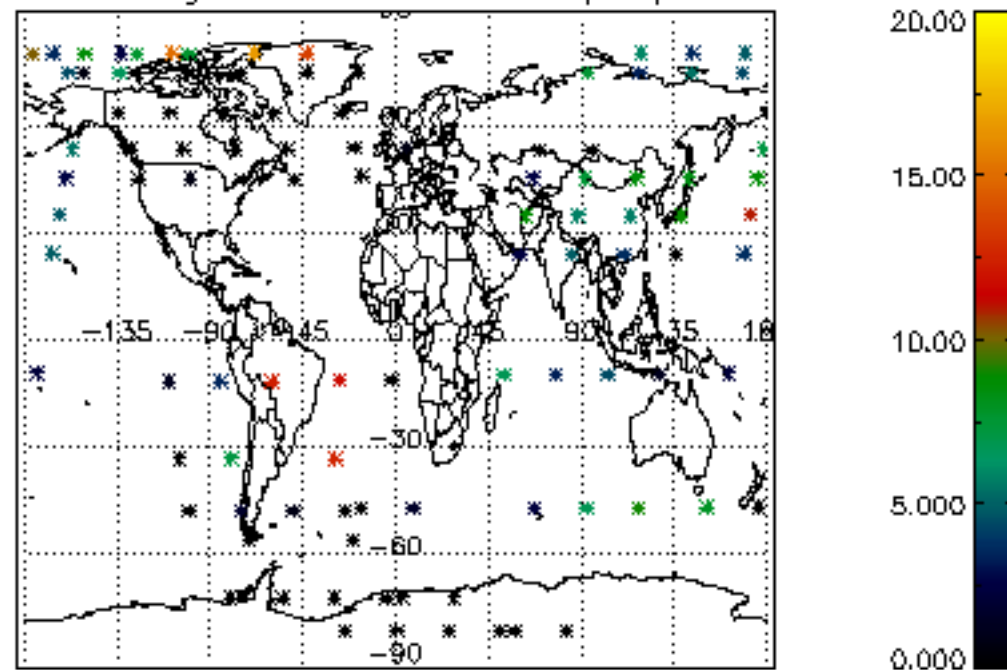
Percentage of datation errors per profile



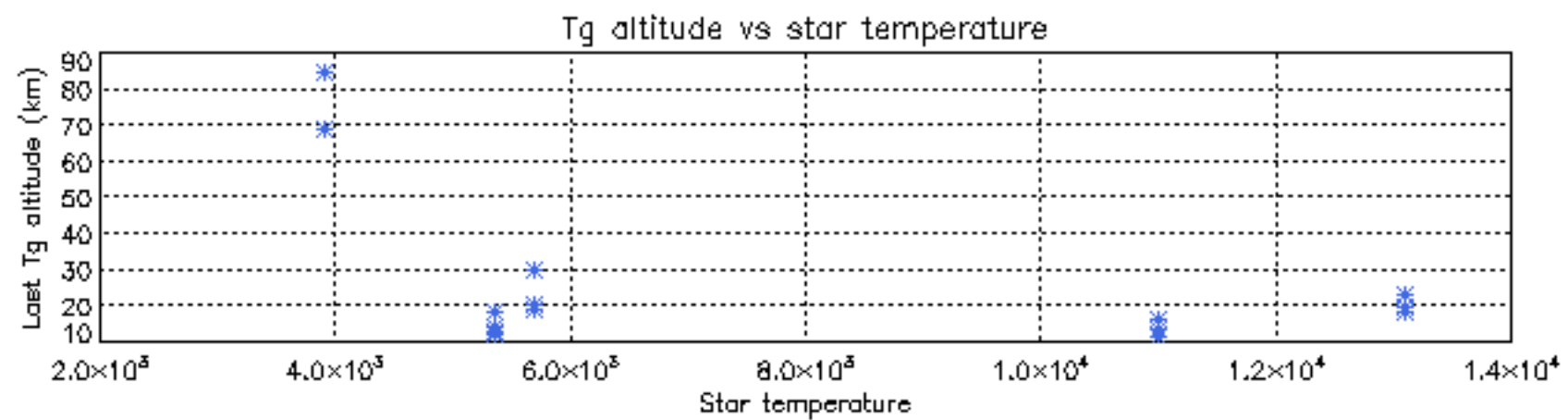
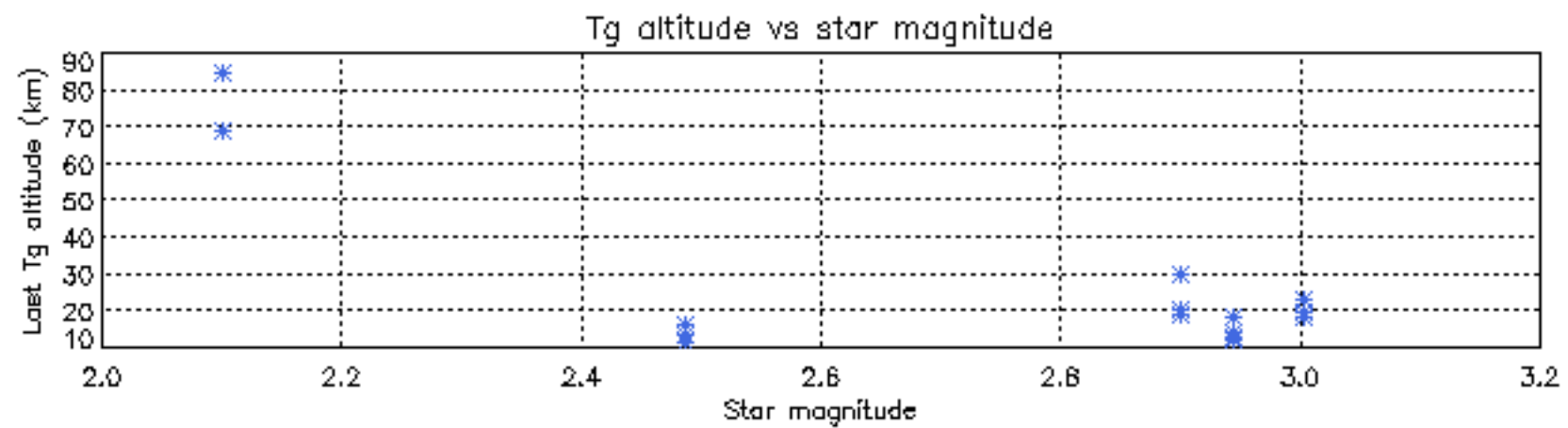
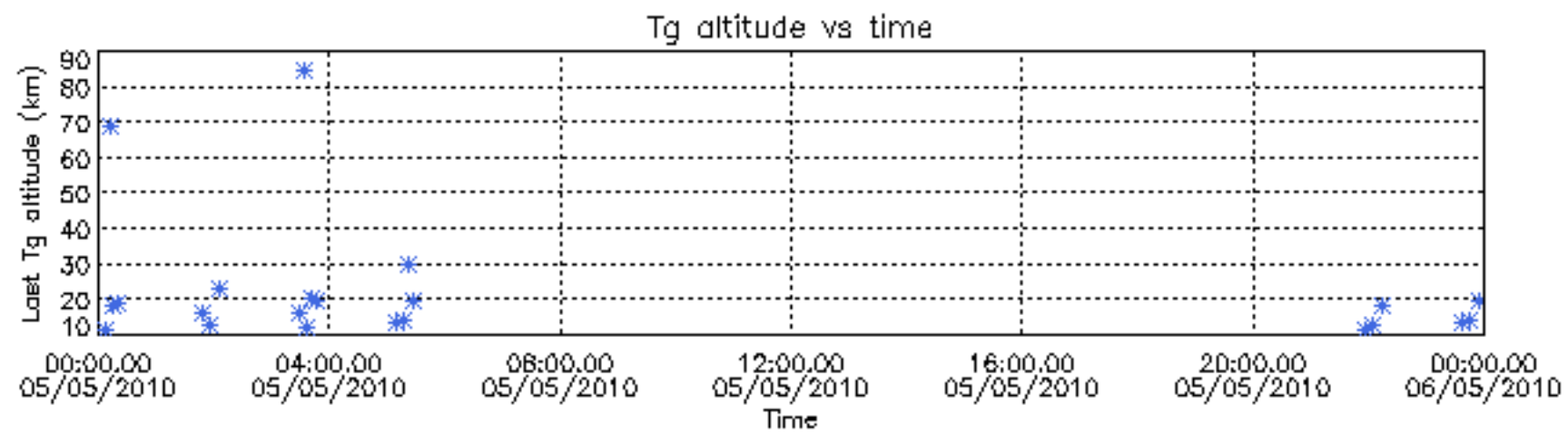
Percentage of star falling outside central band per profile



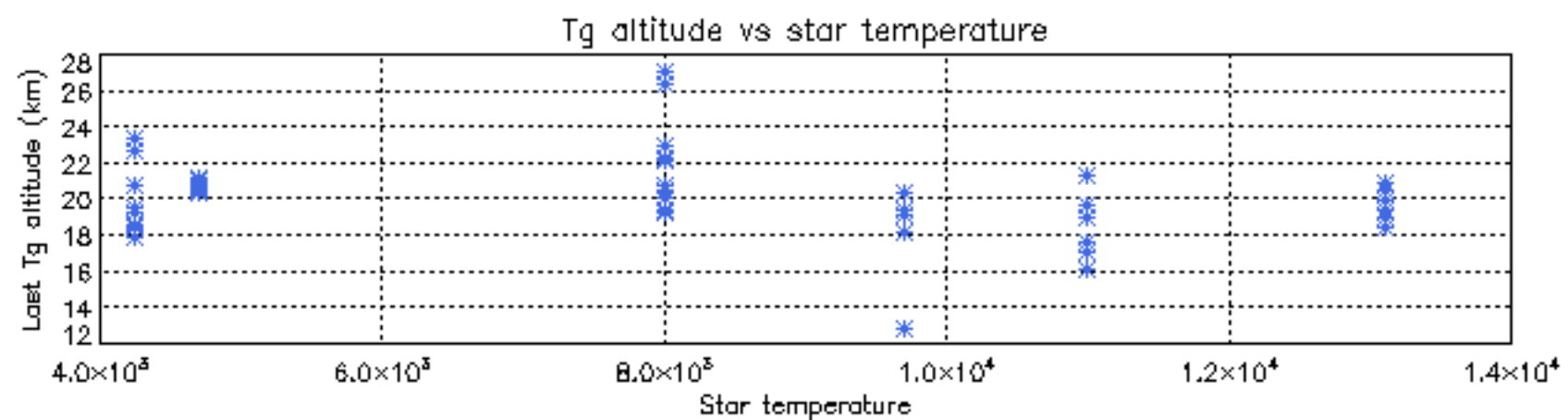
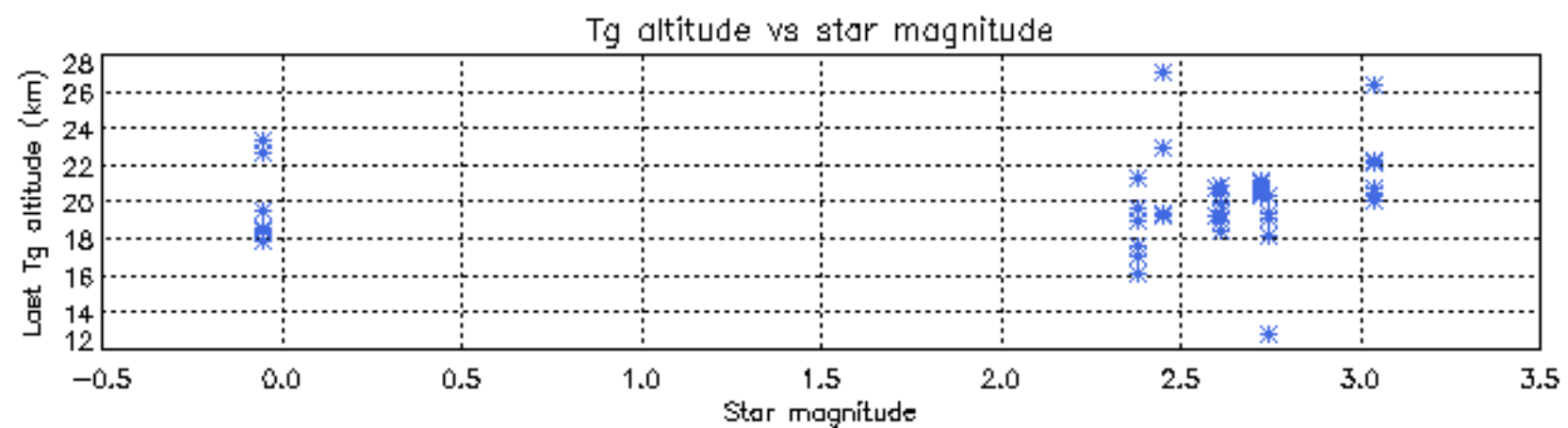
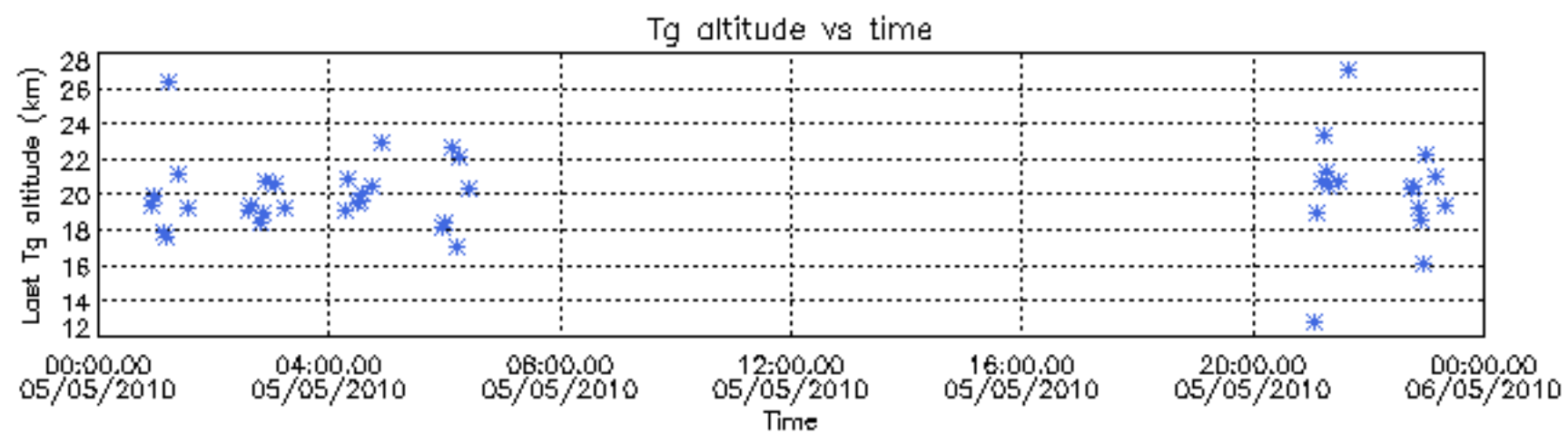
Percentage of saturation errors per profile

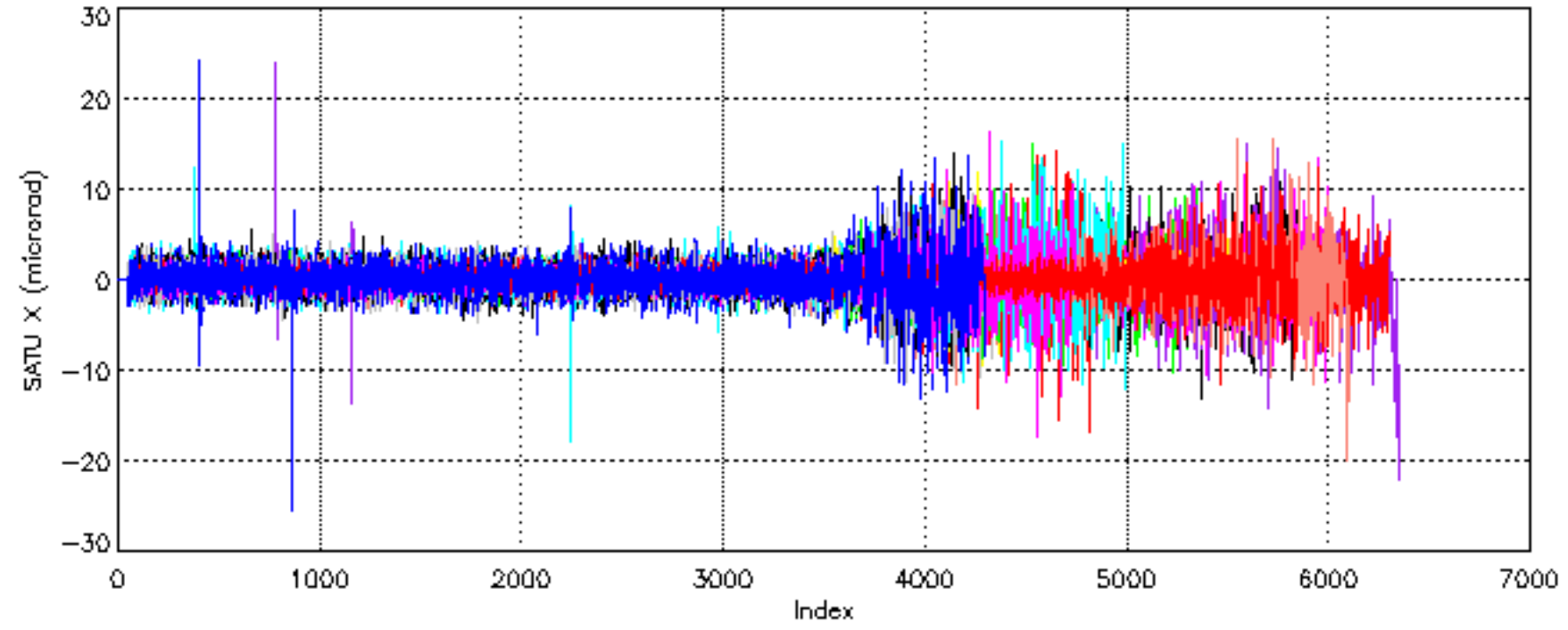


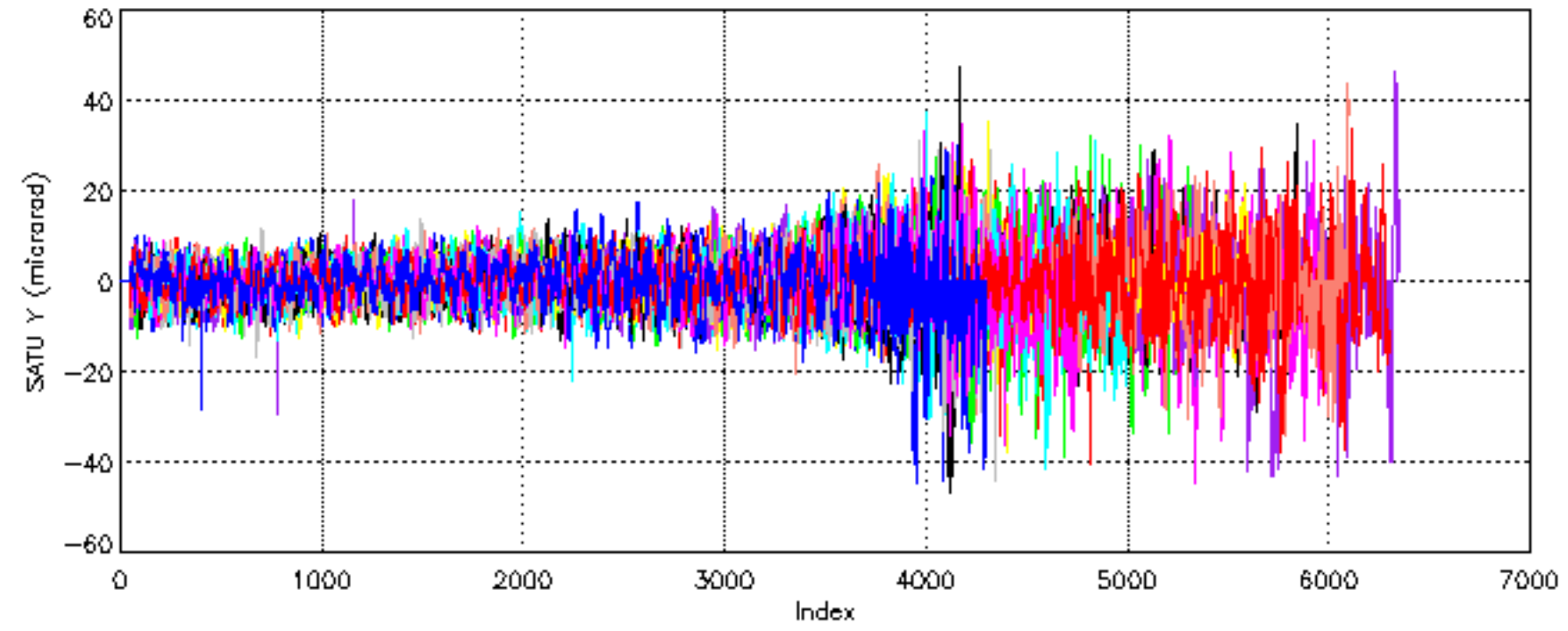
Tangent altitude at which the star is lost

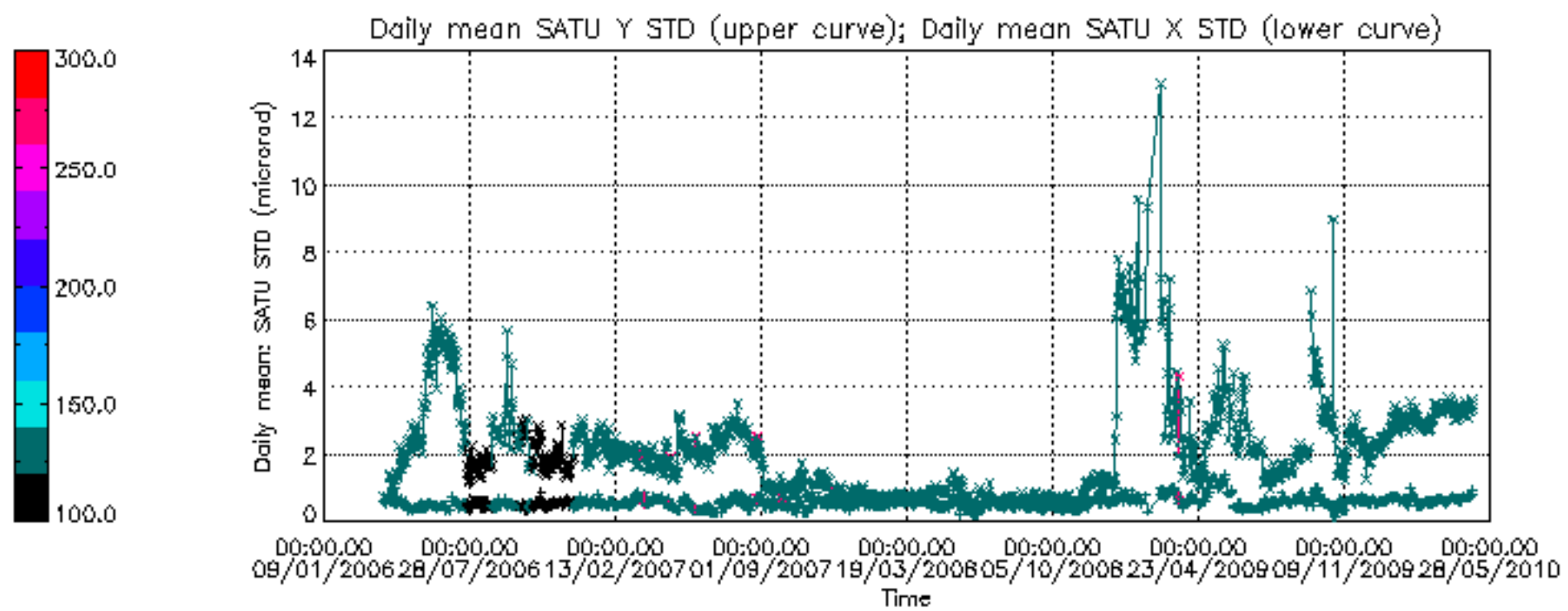


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20100501_004401_000057222089_00059_42698_9963.N1

1; -637.9; 01-MAY-2010 00:44:01; Dark ; 61.5; 154; 22Bet Aqr ; 2.90; 5700;occ; 123; 0;42698
 2; -480.7; 01-MAY-2010 00:46:38; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42698
 3; 634.8; 01-MAY-2010 01:05:14; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;42699
 4; 745.6; 01-MAY-2010 01:07:04; Dark ; 53.5; 40; The Sco ; 1.86; 7100;occ; 107; 0;42699
 5; 850.6; 01-MAY-2010 01:08:49; Dark ; 59.0; 25; 35Lam Sco ; 1.62; 28000;occ; 118; 0;42699
 6; 1038.5; 01-MAY-2010 01:11:57; Dark ; 60.0; 75; 26Eps Sco ; 2.29; 4250;occ; 120; 0;42699
 7; 1264.4; 01-MAY-2010 01:15:43; Dark ; 81.0; 16; 21Alp Sco ; 1.02; 3000;occ; 162; 0;42699
 8; 1399.6; 01-MAY-2010 01:17:58; Dark ; 58.5; 80; 7Del Sco ; 2.32; 30000;occ; 117; 0;42699
 9; 1590.0; 01-MAY-2010 01:21:09; Bright; 45.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 90; 0;42699
 10; 1728.2; 01-MAY-2010 01:23:27; Bright; 47.5; 104; 27Bet Lib ; 2.61; 13100;occ; 95; 0;42699
 11; 2233.6; 01-MAY-2010 01:31:52; Bright; 40.0; 111; 8Eta Boo ; 2.68; 6000;occ; 80; 0;42699
 12; 2456.5; 01-MAY-2010 01:35:35; Bright; 45.5; 83; ; 2.38; 11000;occ; 91; 0;42699
 13; 2637.1; 01-MAY-2010 01:38:36; Bright; 40.5; 180; 27Gam Boo ; 3.04; 8000;occ; 81; 0;42699
 14; 2770.6; 01-MAY-2010 01:40:49; Bright; 39.5; 39; 85Eta UMA ; 1.85; 24000;occ; 79; 0;42699
 15; 3211.4; 01-MAY-2010 01:48:10; Bright; 44.5; 119; 14Eta Dra ; 2.73; 4700;occ; 89; 0;42699
 16; 3829.0; 01-MAY-2010 01:58:28; Bright; 50.5; 89; 5Alp Cep ; 2.45; 8000;occ; 101; 0;42699
 17; 4140.5; 01-MAY-2010 02:03:39; Bright; 32.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 64; 0;42699
 18; 4508.1; 01-MAY-2010 02:09:47; Dark ; 51.5; 164; 44Eta Peg ; 2.95; 5400;occ; 103; 0;42699
 19; 4773.4; 01-MAY-2010 02:14:12; Dark ; 45.0; 90; 54Alp Peg ; 2.49; 11000;occ; 90; 0;42699
 20; 5030.5; 01-MAY-2010 02:18:29; Dark ; 54.5; 61; 8Eps Peg ; 2.10; 3900;occ; 109; 0;42699

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 7; 4544.7; 04-MAY-2010 08:58:33; Dark ; 49.5; 93; 53Bet Peg ; 2.52; 3100;occ; 99; 0;42746
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 5; 2616.0; 04-MAY-2010 11:47:36; Bright; 40.5; 180; 27Gam Boo ; 3.04; 8000;occ; 81; 0;42748
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 2; 2104.6; 06-MAY-2010 08:55:14; Bright; 52.5; 102; 24Alp Ser ; 2.60; 4250;occ; 105; 0;42775
 3; 2247.9; 06-MAY-2010 08:57:38; Bright; 43.0; 3; 16Alp Boo ; -0.05; 4250;occ; 86; 0;42775
 4; 2422.0; 06-MAY-2010 09:00:32; Bright; 43.0; 83; ; 2.38; 11000;occ; 86; 0;42775
 5; 2517.2; 06-MAY-2010 09:02:07; Bright; 50.5; 67; 5Alp CrB ; 2.22; 11000;occ; 101; 0;42775
 6; 3165.8; 06-MAY-2010 09:12:56; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;42775
 7; 3804.4; 06-MAY-2010 09:23:34; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;42775
 8; 4550.2; 06-MAY-2010 09:36:00; Dark ; 51.0; 93; 53Bet Peg ; 2.52; 3100;occ; 102; 0;42775
 9; 4799.3; 06-MAY-2010 09:40:09; Dark ; 50.0; 90; 54Alp Peg ; 2.49; 11000;occ; 100; 0;42775
 10; 5244.3; 06-MAY-2010 09:47:34; Dark ; 62.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 125; 0;42775
 11; 5652.0; 06-MAY-2010 09:54:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42775
 12; 5855.9; 06-MAY-2010 09:57:46; Dark ; 42.5; 172; Gam Gru ; 3.00; 13100;occ; 85; 0;42775
 13; 6820.1; 06-MAY-2010 10:13:50; Dark ; 67.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 134; 0;42776
 14; 6955.7; 06-MAY-2010 10:16:06; Dark ; 60.0; 25; 35Lam Sco ; 1.62; 28000;occ; 120; 0;42776
 15; 7125.7; 06-MAY-2010 10:18:56; Dark ; 59.0; 75; 26Eps Sco ; 2.29; 4250;occ; 118; 0;42776
 16; 7335.6; 06-MAY-2010 10:22:25; Dark ; 73.0; 16; 21Alp Sco ; 1.02; 3000;occ; 146; 0;42776
 17; 7457.4; 06-MAY-2010 10:24:27; Dark ; 55.5; 80; 7Del Sco ; 2.32; 30000;occ; 111; 0;42776
 18; 7634.7; 06-MAY-2010 10:27:25; Bright; 42.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 85; 0;42776

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 2; 1725.3; 06-MAY-2010 10:29:31; Bright; 44.5; 104; 27Bet Lib ; 2.61; 13100;occ; 89; 0;42776
 3; 2103.9; 06-MAY-2010 10:35:50; Bright; 52.5; 102; 24Alp Ser ; 2.60; 4250;occ; 105; 0;42776
 4; 2247.6; 06-MAY-2010 10:38:13; Bright; 38.0; 3; 16Alp Boo ; -0.05; 4250;occ; 76; 0;42776
 5; 2421.8; 06-MAY-2010 10:41:07; Bright; 44.0; 83; ; 2.38; 11000;occ; 88; 0;42776
 6; 2516.5; 06-MAY-2010 10:42:42; Bright; 49.5; 67; 5Alp CrB ; 2.22; 11000;occ; 99; 0;42776
 7; 3165.3; 06-MAY-2010 10:53:31; Bright; 43.5; 119; 14Eta Dra ; 2.73; 4700;occ; 87; 0;42776
 8; 3803.7; 06-MAY-2010 11:04:09; Bright; 63.0; 89; 5Alp Cep ; 2.45; 8000;occ; 126; 0;42776
 9; 4550.5; 06-MAY-2010 11:16:36; Dark ; 61.0; 93; 53Bet Peg ; 2.52; 3100;occ; 122; 0;42776
 10; 4799.8; 06-MAY-2010 11:20:45; Dark ; 47.0; 90; 54Alp Peg ; 2.49; 11000;occ; 94; 0;42776
 11; 5245.5; 06-MAY-2010 11:28:11; Dark ; 61.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 122; 0;42776
 12; 5653.3; 06-MAY-2010 11:34:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42776
 13; 5856.9; 06-MAY-2010 11:38:23; Dark ; 43.0; 172; Gam Gru ; 3.00; 13100;occ; 86; 0;42776
 14; 6821.2; 06-MAY-2010 11:54:27; Dark ; 66.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 133; 0;42777


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16; 7126.1; 06-MAY-2010 11:59:32; Dark ; 60.0; 75; 26Eps Sco ; 2.29; 4250;occ; 120; 0;42777
17; 7336.0; 06-MAY-2010 12:03:02; Dark ; 69.5; 16; 21Alp Sco ; 1.02; 3000;occ; 139; 0;42777
18; 7457.4; 06-MAY-2010 12:05:03; Dark ; 54.5; 80; 7Del Sco ; 2.32; 30000;occ; 109; 0;42777
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 3; 2103.5; 06-MAY-2010 12:16:25; Bright; 53.0; 102; 24Alp Ser ; 2.60; 4250;occ; 106; 0;42777
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 5; 2421.1; 06-MAY-2010 12:21:43; Bright; 40.5; 83; ; 2.38; 11000;occ; 81; 0;42777
 6; 2516.0; 06-MAY-2010 12:23:18; Bright; 52.0; 67; 5Alp CrB ; 2.22; 11000;occ; 104; 0;42777
 7; 3164.7; 06-MAY-2010 12:34:06; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;42777
 8; 3803.6; 06-MAY-2010 12:44:45; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;42777
 9; 4550.4; 06-MAY-2010 12:57:12; Dark ; 53.5; 93; 53Bet Peg ; 2.52; 3100;occ; 107; 0;42777
10; 4800.1; 06-MAY-2010 13:01:22; Dark ; 47.0; 90; 54Alp Peg ; 2.49; 11000;occ; 94; 0;42777
11; 5246.6; 06-MAY-2010 13:08:48; Dark ; 60.5; 162; 34Alp Aqr ; 2.94; 5350;occ; 121; 0;42777
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13; 5857.3; 06-MAY-2010 13:18:59; Dark ; 44.5; 172; Gam Gru ; 3.00; 13100;occ; 89; 0;42777
14; 6822.2; 06-MAY-2010 13:35:04; Dark ; 68.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 137; 0;42778
15; 6957.8; 06-MAY-2010 13:37:19; Dark ; 57.0; 25; 35Lam Sco ; 1.62; 28000;occ; 114; 0;42778
16; 7127.2; 06-MAY-2010 13:40:09; Dark ; 54.5; 75; 26Eps Sco ; 2.29; 4250;occ; 109; 0;42778
17; 7336.6; 06-MAY-2010 13:43:38; Dark ; 70.5; 16; 21Alp Sco ; 1.02; 3000;occ; 141; 0;42778
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 3; 1725.1; 06-MAY-2010 13:50:43; Bright; 45.0; 104; 27Bet Lib ; 2.61; 13100;occ; 90; 0;42778
 4; 2102.8; 06-MAY-2010 13:57:00; Bright; 53.0; 102; 24Alp Ser ; 2.60; 4250;occ; 106; 0;42778
 5; 2247.0; 06-MAY-2010 13:59:24; Bright; 39.5; 3; 16Alp Boo ; -0.05; 4250;occ; 79; 0;42778
 6; 2420.9; 06-MAY-2010 14:02:18; Bright; 41.5; 83; ; 2.38; 11000;occ; 83; 0;42778
 7; 2514.8; 06-MAY-2010 14:03:52; Bright; 51.0; 67; 5Alp CrB ; 2.22; 11000;occ; 102; 0;42778
 8; 3164.1; 06-MAY-2010 14:14:42; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;42778
 9; 3803.4; 06-MAY-2010 14:25:21; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;42778
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11; 4800.8; 06-MAY-2010 14:41:58; Dark ; 48.5; 90; 54Alp Peg ; 2.49; 11000;occ; 97; 0;42778
12; 5247.5; 06-MAY-2010 14:49:25; Dark ; 57.0; 162; 34Alp Aqr ; 2.94; 5350;occ; 114; 0;42778
13; 5656.2; 06-MAY-2010 14:56:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42778
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 2; 683.9; 06-MAY-2010 16:54:33; Dark ; 45.0; 141; Bet Ara ; 2.84; 4600;occ; 90; 0;42780
 3; 813.8; 06-MAY-2010 16:56:43; Dark ; 52.0; 40; The Sco ; 1.86; 7100;occ; 104; 0;42780
 4; 928.7; 06-MAY-2010 16:58:38; Dark ; 34.0; 115; 34Ups Sco ; 2.70; 26000;occ; 68; 0;42780
 5; 1092.4; 06-MAY-2010 17:01:22; Dark ; 44.5; 75; 26Eps Sco ; 2.29; 4250;occ; 89; 0;42780
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 2; -312.9; 06-MAY-2010 23:20:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42783
 3; -99.0; 06-MAY-2010 23:23:54; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;42783
 4; 235.4; 06-MAY-2010 23:29:29; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;42784
 5; 686.1; 06-MAY-2010 23:36:59; Dark ; 42.0; 141; Bet Ara ; 2.84; 4600;occ; 84; 0;42784
 6; 816.8; 06-MAY-2010 23:39:10; Dark ; 55.0; 40; The Sco ; 1.86; 7100;occ; 110; 0;42784
 7; 932.0; 06-MAY-2010 23:41:05; Dark ; 39.0; 115; 34Ups Sco ; 2.70; 26000;occ; 78; 0;42784
 8; 1094.6; 06-MAY-2010 23:43:48; Dark ; 59.5; 75; 26Eps Sco ; 2.29; 4250;occ; 119; 0;42784
 9; 1333.9; 06-MAY-2010 23:47:47; Dark ; 25.0; 156; 20Sig Sco ; 2.90; 28000;occ; 50; 0;42784
10; 1423.3; 06-MAY-2010 23:49:16; Dark ; 52.5; 80; 7Del Sco ; 2.32; 30000;occ; 105; 0;42784
11; 1599.4; 06-MAY-2010 23:52:13; Bright; 41.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 82; 0;42784
12; 1725.1; 06-MAY-2010 23:54:18; Bright; 45.0; 104; 27Bet Lib ; 2.61; 13100;occ; 90; 0;42784
13; 2223.4; 07-MAY-2010 00:02:37; Bright; 36.5; 111; 8Eta Boo ; 2.68; 6000;occ; 73; 0;42784
14; 2418.7; 07-MAY-2010 00:05:52; Bright; 40.0; 83; ; 2.38; 11000;occ; 80; 0;42784
15; 2603.2; 07-MAY-2010 00:08:56; Bright; 39.0; 180; 27Gam Boo ; 3.04; 8000;occ; 78; 0;42784
16; 2754.9; 07-MAY-2010 00:11:28; Bright; 37.0; 39; 85Eta UMa ; 1.85; 24000;occ; 74; 0;42784
17; 2842.0; 07-MAY-2010 00:12:55; Bright; 37.5; 55; 79Zet UMa ; 2.06; 10200;occ; 75; 0;42784
18; 3160.7; 07-MAY-2010 00:18:14; Bright; 44.0; 119; 14Eta Dra ; 2.73; 4700;occ; 88; 0;42784
19; 3801.2; 07-MAY-2010 00:28:54; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;42784
20; 3965.2; 07-MAY-2010 00:31:38; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;42784
21; 4551.9; 07-MAY-2010 00:41:25; Dark ; 52.5; 93; 53Bet Peg ; 2.52; 3100;occ; 105; 0;42784
22; 4802.8; 07-MAY-2010 00:45:36; Dark ; 46.5; 90; 54Alp Peg ; 2.49; 11000;occ; 93; 0;42784

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 5; 2223.4; 06-MAY-2010 17:20:13; Bright; 36.5; 111; 8Eta Boo ; 2.68; 6000;occ; 73; 0;42780
 6; 2420.2; 06-MAY-2010 17:23:30; Bright; 42.0; 83; ; 2.38; 11000;occ; 84; 0;42780
 7; 2604.4; 06-MAY-2010 17:26:34; Bright; 41.0; 180; 27Gam Boo ; 3.04; 8000;occ; 82; 0;42780
 8; 2755.5; 06-MAY-2010 17:29:05; Bright; 39.0; 39; 85Eta UMa ; 1.85; 24000;occ; 78; 0;42780
 9; 2842.1; 06-MAY-2010 17:30:32; Bright; 37.0; 55; 79Zet UMa ; 2.06; 10200;occ; 74; 0;42780
 10; 3203.3; 06-MAY-2010 17:36:33; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;42780
 11; 3802.4; 06-MAY-2010 17:46:32; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;42780
 12; 3965.7; 06-MAY-2010 17:49:15; Bright; 50.0; 74; 11Bet Cas ; 2.27; 6600;occ; 100; 0;42780
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 18; 6269.2; 06-MAY-2010 18:27:39; Dark ; 43.5; 45; Alp Pav ; 1.94; 26000;occ; 87; 0;42781
 19; 6720.6; 06-MAY-2010 18:35:10; Dark ; 52.0; 141; Bet Ara ; 2.84; 4600;occ; 104; 0;42781
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 21; 6965.5; 06-MAY-2010 18:39:15; Dark ; 33.5; 115; 34Ups Sco ; 2.70; 26000;occ; 67; 0;42781

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 3; 1599.4; 06-MAY-2010 18:50:25; Bright; 44.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 89; 0;42781
 4; 1725.1; 06-MAY-2010 18:52:31; Bright; 45.0; 104; 27Bet Lib ; 2.61; 13100;occ; 90; 0;42781
 5; 2223.5; 06-MAY-2010 19:00:49; Bright; 36.5; 111; 8Eta Boo ; 2.68; 6000;occ; 73; 0;42781
 6; 2419.8; 06-MAY-2010 19:04:05; Bright; 42.0; 83; ; 2.38; 11000;occ; 84; 0;42781
 7; 2604.3; 06-MAY-2010 19:07:10; Bright; 40.0; 180; 27Gam Boo ; 3.04; 8000;occ; 80; 0;42781
 8; 2755.4; 06-MAY-2010 19:09:41; Bright; 36.5; 39; 85Eta UMa ; 1.85; 24000;occ; 73; 0;42781
 9; 2842.2; 06-MAY-2010 19:11:08; Bright; 36.0; 55; 79Zet UMa ; 2.06; 10200;occ; 72; 0;42781
 10; 3203.3; 06-MAY-2010 19:17:09; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;42781
 11; 3802.0; 06-MAY-2010 19:27:07; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;42781
 12; 3965.2; 06-MAY-2010 19:29:51; Bright; 34.0; 74; 11Bet Cas ; 2.27; 6600;occ; 68; 0;42781
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 19; 6721.1; 06-MAY-2010 20:15:46; Dark ; 52.0; 141; Bet Ara ; 2.84; 4600;occ; 104; 0;42782
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 6; 817.7; 07-MAY-2010 01:19:47; Dark ; 47.5; 40; The Sco ; 1.86; 7100;occ; 95; 0;42785
 7; 932.7; 07-MAY-2010 01:21:42; Dark ; 39.0; 115; 34Ups Sco ; 2.70; 26000;occ; 78; 0;42785
 8; 1095.1; 07-MAY-2010 01:24:24; Dark ; 57.0; 75; 26Eps Sco ; 2.29; 4250;occ; 114; 0;42785
 9; 1334.3; 07-MAY-2010 01:28:23; Dark ; 25.0; 156; 20Sig Sco ; 2.90; 28000;occ; 50; 0;42785
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 12; 1724.9; 07-MAY-2010 01:34:54; Bright; 44.5; 104; 27Bet Lib ; 2.61; 13100;occ; 89; 0;42785
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3; 1338.4; 07-MAY-2010 19:55:03; Dark ; 53.0; 156; 20Sig Sco ; 2.90; 28000;occ; 106; 0;42796
4; 1426.3; 07-MAY-2010 19:56:31; Dark ; 57.0; 80; 7Del Sco ; 2.32; 30000;occ; 114; 0;42796

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8; 2414.1; 07-MAY-2010 20:12:59; Bright; 44.5; 83; ; 2.38; 11000;occ; 89; 0;42796
9; 2599.1; 07-MAY-2010 20:16:04; Bright; 41.5; 180; 27Gam Boo ; 3.04; 8000;occ; 83; 0;42796
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11; 3153.8; 07-MAY-2010 20:25:18; Bright; 59.0; 119; 14Eta Dra ; 2.73; 4700;occ; 118; 0;42796
12; 3796.5; 07-MAY-2010 20:36:01; Bright; 63.0; 89; 5Alp Cep ; 2.45; 8000;occ; 126; 0;42796
13; 3965.5; 07-MAY-2010 20:38:50; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;42796
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6; 693.7; 07-MAY-2010 21:24:54; Dark ; 50.0; 141; Bet Ara ; 2.84; 4600;occ; 100; 0;42797
7; 827.1; 07-MAY-2010 21:27:07; Dark ; 56.0; 40; The Sco ; 1.86; 7100;occ; 112; 0;42797
8; 937.2; 07-MAY-2010 21:28:58; Dark ; 32.0; 25; 35Lam Sco ; 1.62; 28000;occ; 64; 0;42797
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14; 2222.1; 07-MAY-2010 21:50:22; Bright; 36.0; 111; 8Eta Boo ; 2.68; 6000;occ; 72; 0;42797
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15; 6277.2; 07-MAY-2010 14:34:58; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;42793
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4;	2401.7;	10-MAY-2010	13:36:07;	Bright;	39.5;	83;		;	2.38;	11000;occ;	79;	0;42835	
5;	2588.1;	10-MAY-2010	13:39:14;	Bright;	39.0;	180;	27Gam Boo	;	3.04;	8000;occ;	78;	0;42835	
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7;	3782.3;	10-MAY-2010	13:59:08;	Bright;	43.0;	89;	5Alp Cep	;	2.45;	8000;occ;	86;	0;42835	
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12;	5620.4;	10-MAY-2010	14:29:46;	Dark	;	51.0;	18;	24Alp PsA	;	1.17;	9700;occ;	102;	0;42835
13;	5761.6;	10-MAY-2010	14:32:07;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;42835
14;	5892.1;	10-MAY-2010	14:34:18;	Dark	;	56.0;	63;	Bet Gru	;	2.15;	2800;occ;	112;	0;42835
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17;	6751.9;	10-MAY-2010	14:48:37;	Dark	;	45.0;	141;	Bet Ara	;	2.84;	4600;occ;	90;	0;42836
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9; 3782.0; 10-MAY-2010 15:39:43; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;42836
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13; 4824.2; 10-MAY-2010 15:57:06; Dark ; 51.0; 90; 54Alp Peg ; 2.49; 11000;occ; 102; 0;42836
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4; 1436.5; 10-MAY-2010 16:41:14; Dark ; 55.5; 80; 7Del Sco ; 2.32; 30000;occ; 111; 0;42837
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23; 6894.0; 10-MAY-2010 18:12:12; Dark ; 54.5; 40; The Sco ; 1.86; 7100;occ; 109; 0;42838
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19; 3779.7; 11-MAY-2010 00:02:41; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;42841
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 9; 307.8; 14-MAY-2010 07:33:34; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;42889
 10; 744.3; 14-MAY-2010 07:40:50; Dark ; 44.5; 141; Bet Ara ; 2.84; 4600;occ; 89; 0;42889
 11; 894.0; 14-MAY-2010 07:43:20; Dark ; 50.5; 40; The Sco ; 1.86; 7100;occ; 101; 0;42889
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 13; 1151.8; 14-MAY-2010 07:47:38; Dark ; 53.5; 75; 26Eps Sco ; 2.29; 4250;occ; 107; 0;42889
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 22; 7484.3; 14-MAY-2010 09:33:10; Dark ; 52.0; 80; 7Del Sco ; 2.32; 30000;occ; 104; 0;42890
 23; 7648.2; 14-MAY-2010 09:35:54; Bright; 38.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 76; 0;42890
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 21; 7484.9; 14-MAY-2010 11:13:47; Dark ; 59.5; 80; 7Del Sco ; 2.32; 30000;occ; 119; 0;42891
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11; 4849.3; 14-MAY-2010 12:10:27; Dark ; 53.5; 90; 54Alp Peg ; 2.49; 11000;occ; 107; 0;42891
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5; 2387.1; 14-MAY-2010 14:50:37; Bright; 38.0; 83; ; 2.38; 11000;occ; 76; 0;42893
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2; 1020.1; 15-MAY-2010 18:58:01; Dark ; 53.0; 25; 35Lam Sco ; 1.62; 28000;occ; 106; 0;42910
3; 1161.8; 15-MAY-2010 19:00:22; Dark ; 52.0; 75; 26Eps Sco ; 2.29; 4250;occ; 104; 0;42910
4; 1348.6; 15-MAY-2010 19:03:29; Dark ; 61.0; 16; 21Alp Sco ; 1.02; 3000;occ; 122; 0;42910
5; 1506.1; 15-MAY-2010 19:06:07; Bright; 45.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 91; 0;42910

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6; 1727.0; 15-MAY-2010 19:09:47; Bright; 40.5; 104; 27Bet Lib ; 2.61; 13100;occ; 81; 0;42910
7; 1857.9; 15-MAY-2010 19:11:58; Bright; 50.0; 120; 1Del Oph ; 2.73; 3200;occ; 100; 0;42910
8; 2048.6; 15-MAY-2010 19:15:09; Bright; 44.5; 102; 24Alp Ser ; 2.60; 4250;occ; 89; 0;42910
9; 2383.4; 15-MAY-2010 19:20:44; Bright; 39.0; 83; ; 2.38; 11000;occ; 78; 0;42910
10; 2571.7; 15-MAY-2010 19:23:52; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;42910
11; 3094.9; 15-MAY-2010 19:32:35; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;42910
12; 3751.2; 15-MAY-2010 19:43:32; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;42910
13; 3961.8; 15-MAY-2010 19:47:02; Bright; 55.0; 74; 11Bet Cas ; 2.27; 6600;occ; 110; 0;42910
14; 4513.2; 15-MAY-2010 19:56:14; Dark ; 46.5; 58; 21Alp And ; 2.07; 11000;occ; 93; 0;42910
15; 4762.3; 15-MAY-2010 20:00:23; Dark ; 43.0; 140; 88Gam Peg ; 2.83; 26000;occ; 86; 0;42910
16; 4859.0; 15-MAY-2010 20:01:59; Dark ; 54.5; 90; 54Alp Peg ; 2.49; 11000;occ; 109; 0;42910
17; 5675.5; 15-MAY-2010 20:15:36; Dark ; 48.0; 18; 24Alp PsA ; 1.17; 9700;occ; 96; 0;42910
18; 5823.8; 15-MAY-2010 20:18:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42910
19; 6025.6; 15-MAY-2010 20:21:26; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;42910
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21; 6791.7; 15-MAY-2010 20:34:12; Dark ; 45.5; 141; Bet Ara ; 2.84; 4600;occ; 91; 0;42911
22; 6965.5; 15-MAY-2010 20:37:06; Dark ; 29.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 58; 0;42911
23; 7056.7; 15-MAY-2010 20:38:37; Dark ; 17.0; 25; 35Lam Sco ; 1.62; 28000;occ; 34; 0;42911

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2; 1020.7; 15-MAY-2010 20:38:37; Dark ; 53.5; 25; 35Lam Sco ; 1.62; 28000;occ; 107; 0;42911
3; 1162.2; 15-MAY-2010 20:40:59; Dark ; 52.0; 75; 26Eps Sco ; 2.29; 4250;occ; 104; 0;42911
4; 1349.0; 15-MAY-2010 20:44:05; Dark ; 56.5; 16; 21Alp Sco ; 1.02; 3000;occ; 113; 0;42911
5; 1506.3; 15-MAY-2010 20:46:43; Bright; 45.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 91; 0;42911
6; 1726.9; 15-MAY-2010 20:50:23; Bright; 41.0; 104; 27Bet Lib ; 2.61; 13100;occ; 82; 0;42911
7; 1857.7; 15-MAY-2010 20:52:34; Bright; 50.5; 120; 1Del Oph ; 2.73; 3200;occ; 101; 0;42911
8; 2048.5; 15-MAY-2010 20:55:45; Bright; 44.0; 102; 24Alp Ser ; 2.60; 4250;occ; 88; 0;42911
9; 2383.4; 15-MAY-2010 21:01:20; Bright; 40.0; 83; ; 2.38; 11000;occ; 80; 0;42911
10; 2571.2; 15-MAY-2010 21:04:28; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;42911
11; 3094.2; 15-MAY-2010 21:13:11; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;42911
12; 3750.7; 15-MAY-2010 21:24:07; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;42911
13; 3961.6; 15-MAY-2010 21:27:38; Bright; 37.5; 74; 11Bet Cas ; 2.27; 6600;occ; 75; 0;42911
14; 4513.5; 15-MAY-2010 21:36:50; Dark ; 44.0; 58; 21Alp And ; 2.07; 11000;occ; 88; 0;42911
15; 4762.1; 15-MAY-2010 21:40:59; Dark ; 44.5; 140; 88Gam Peg ; 2.83; 26000;occ; 89; 0;42911
16; 4860.0; 15-MAY-2010 21:42:36; Dark ; 54.0; 90; 54Alp Peg ; 2.49; 11000;occ; 108; 0;42911

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2; -211.2; 15-MAY-2010 21:58:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42911
3; -9.6; 15-MAY-2010 22:02:03; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;42911
4; 324.3; 15-MAY-2010 22:07:37; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;42912
5; 756.4; 15-MAY-2010 22:14:49; Dark ; 51.0; 141; Bet Ara ; 2.84; 4600;occ; 102; 0;42912
6; 930.6; 15-MAY-2010 22:17:43; Dark ; 30.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 60; 0;42912
7; 1021.3; 15-MAY-2010 22:19:14; Dark ; 58.0; 25; 35Lam Sco ; 1.62; 28000;occ; 116; 0;42912
8; 1162.9; 15-MAY-2010 22:21:35; Dark ; 53.0; 75; 26Eps Sco ; 2.29; 4250;occ; 106; 0;42912
9; 1348.9; 15-MAY-2010 22:24:41; Dark ; 60.0; 16; 21Alp Sco ; 1.02; 3000;occ; 120; 0;42912
10; 1506.3; 15-MAY-2010 22:27:19; Bright; 45.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 91; 0;42912
11; 1727.0; 15-MAY-2010 22:30:59; Bright; 39.5; 104; 27Bet Lib ; 2.61; 13100;occ; 79; 0;42912
12; 1857.4; 15-MAY-2010 22:33:10; Bright; 50.5; 120; 1Del Oph ; 2.73; 3200;occ; 101; 0;42912
13; 2048.0; 15-MAY-2010 22:36:20; Bright; 44.5; 102; 24Alp Ser ; 2.60; 4250;occ; 89; 0;42912
14; 2382.9; 15-MAY-2010 22:41:55; Bright; 40.0; 83; ; 2.38; 11000;occ; 80; 0;42912
15; 2571.3; 15-MAY-2010 22:45:04; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;42912
16; 3093.7; 15-MAY-2010 22:53:46; Bright; 61.0; 119; 14Eta Dra ; 2.73; 4700;occ; 122; 0;42912
17; 3750.1; 15-MAY-2010 23:04:42; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;42912
18; 3961.8; 15-MAY-2010 23:08:14; Bright; 55.0; 74; 11Bet Cas ; 2.27; 6600;occ; 110; 0;42912
19; 4513.6; 15-MAY-2010 23:17:26; Dark ; 45.0; 58; 21Alp And ; 2.07; 11000;occ; 90; 0;42912
20; 4762.6; 15-MAY-2010 23:21:35; Dark ; 44.0; 140; 88Gam Peg ; 2.83; 26000;occ; 88; 0;42912
21; 4860.1; 15-MAY-2010 23:23:12; Dark ; 52.5; 90; 54Alp Peg ; 2.49; 11000;occ; 105; 0;42912

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4; 324.4; 15-MAY-2010 23:48:13; Dark ; 51.0; 45; Alp Pav ; 1.94; 26000;occ; 102; 0;42913
5; 756.8; 15-MAY-2010 23:55:25; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;42913
6; 931.6; 15-MAY-2010 23:58:20; Dark ; 30.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 60; 0;42913
7; 1022.1; 15-MAY-2010 23:59:50; Dark ; 54.0; 25; 35Lam Sco ; 1.62; 28000;occ; 108; 0;42913
8; 1163.1; 16-MAY-2010 00:02:11; Dark ; 52.5; 75; 26Eps Sco ; 2.29; 4250;occ; 105; 0;42913
9; 1349.3; 16-MAY-2010 00:05:17; Dark ; 63.0; 16; 21Alp Sco ; 1.02; 3000;occ; 126; 0;42913
10; 1506.5; 16-MAY-2010 00:07:55; Bright; 43.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 87; 0;42913

11; 1727.3; 16-MAY-2010 00:11:35; Bright; 40.0; 104; 27Bet Lib ; 2.61; 13100;occ; 80; 0;42913
 12; 1857.3; 16-MAY-2010 00:13:45; Bright; 50.0; 120; 1Del Oph ; 2.73; 3200;occ; 100; 0;42913
 13; 2047.9; 16-MAY-2010 00:16:56; Bright; 44.5; 102; 24Alp Ser ; 2.60; 4250;occ; 89; 0;42913
 14; 2383.2; 16-MAY-2010 00:22:31; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;42913
 15; 2570.9; 16-MAY-2010 00:25:39; Bright; 38.0; 180; 27Gam Boo ; 3.04; 8000;occ; 76; 0;42913
 16; 3092.9; 16-MAY-2010 00:34:21; Bright; 43.0; 119; 14Eta Dra ; 2.73; 4700;occ; 86; 0;42913
 17; 3749.7; 16-MAY-2010 00:45:18; Bright; 46.0; 89; 5Alp Cep ; 2.45; 8000;occ; 92; 0;42913
 18; 3961.8; 16-MAY-2010 00:48:50; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;42913
 19; 4514.0; 16-MAY-2010 00:58:02; Dark ; 44.0; 58; 21Alp And ; 2.07; 11000;occ; 88; 0;42913
 20; 4763.0; 16-MAY-2010 01:02:11; Dark ; 43.5; 140; 88Gam Peg ; 2.83; 26000;occ; 87; 0;42913
 21; 4860.2; 16-MAY-2010 01:03:48; Dark ; 55.0; 90; 54Alp Peg ; 2.49; 11000;occ; 110; 0;42913

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 5; 757.2; 16-MAY-2010 01:36:01; Dark ; 46.0; 141; Bet Ara ; 2.84; 4600;occ; 92; 0;42914
 6; 932.4; 16-MAY-2010 01:38:56; Dark ; 32.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 64; 0;42914
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 9; 1349.7; 16-MAY-2010 01:45:54; Dark ; 57.5; 16; 21Alp Sco ; 1.02; 3000;occ; 115; 0;42914
 10; 1506.8; 16-MAY-2010 01:48:31; Bright; 59.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 118; 0;42914
 11; 1727.1; 16-MAY-2010 01:52:11; Bright; 40.0; 104; 27Bet Lib ; 2.61; 13100;occ; 80; 0;42914
 12; 1857.1; 16-MAY-2010 01:54:21; Bright; 49.5; 120; 1Del Oph ; 2.73; 3200;occ; 99; 0;42914
 13; 2047.7; 16-MAY-2010 01:57:32; Bright; 44.5; 102; 24Alp Ser ; 2.60; 4250;occ; 89; 0;42914
 14; 2382.8; 16-MAY-2010 02:03:07; Bright; 38.5; 83; ; 2.38; 11000;occ; 77; 0;42914
 15; 2570.8; 16-MAY-2010 02:06:15; Bright; 54.0; 180; 27Gam Boo ; 3.04; 8000;occ; 108; 0;42914
 16; 3092.7; 16-MAY-2010 02:14:57; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;42914
 17; 3749.4; 16-MAY-2010 02:25:53; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;42914
 18; 3961.6; 16-MAY-2010 02:29:26; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;42914
 19; 4514.3; 16-MAY-2010 02:38:38; Dark ; 44.5; 58; 21Alp And ; 2.07; 11000;occ; 89; 0;42914
 20; 4763.2; 16-MAY-2010 02:42:47; Dark ; 43.5; 140; 88Gam Peg ; 2.83; 26000;occ; 87; 0;42914
 21; 4861.5; 16-MAY-2010 02:44:25; Dark ; 56.0; 90; 54Alp Peg ; 2.49; 11000;occ; 112; 0;42914
 22; 5678.8; 16-MAY-2010 02:58:03; Dark ; 47.0; 18; 24Alp PsA ; 1.17; 9700;occ; 94; 0;42914
 23; 5827.3; 16-MAY-2010 03:00:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42914
 24; 6028.7; 16-MAY-2010 03:03:53; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;42914
 25; 6361.8; 16-MAY-2010 03:09:26; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;42915
 26; 6794.1; 16-MAY-2010 03:16:38; Dark ; 46.0; 141; Bet Ara ; 2.84; 4600;occ; 92; 0;42915
 27; 6969.1; 16-MAY-2010 03:19:33; Dark ; 32.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 64; 0;42915
 28; 7059.2; 16-MAY-2010 03:21:03; Dark ; 56.0; 25; 35Lam Sco ; 1.62; 28000;occ; 112; 0;42915
 29; 7200.0; 16-MAY-2010 03:23:24; Dark ; 55.0; 75; 26Eps Sco ; 2.29; 4250;occ; 110; 0;42915
 30; 7386.2; 16-MAY-2010 03:26:30; Dark ; 56.0; 16; 21Alp Sco ; 1.02; 3000;occ; 112; 0;42915
 31; 7542.5; 16-MAY-2010 03:29:06; Bright; 48.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 96; 0;42915
 32; 7763.0; 16-MAY-2010 03:32:47; Bright; 41.0; 104; 27Bet Lib ; 2.61; 13100;occ; 82; 0;42915
 33; 7893.0; 16-MAY-2010 03:34:57; Bright; 50.5; 120; 1Del Oph ; 2.73; 3200;occ; 101; 0;42915
 34; 8083.1; 16-MAY-2010 03:38:07; Bright; 44.5; 102; 24Alp Ser ; 2.60; 4250;occ; 89; 0;42915
 35; 8418.5; 16-MAY-2010 03:43:42; Bright; 41.0; 83; ; 2.38; 11000;occ; 82; 0;42915
 36; 8606.8; 16-MAY-2010 03:46:51; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;42915

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 5; -1272.3; 16-MAY-2010 04:23:24; Dark ; 43.5; 140; 88Gam Peg ; 2.83; 26000;occ; 87; 0;42915
 6; -1174.4; 16-MAY-2010 04:25:01; Dark ; 53.5; 90; 54Alp Peg ; 2.49; 11000;occ; 107; 0;42915
 7; -356.5; 16-MAY-2010 04:38:39; Dark ; 47.5; 18; 24Alp PsA ; 1.17; 9700;occ; 95; 0;42915
 8; -207.7; 16-MAY-2010 04:41:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42915
 9; -6.9; 16-MAY-2010 04:44:29; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;42915
 10; 326.8; 16-MAY-2010 04:50:03; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;42916
 11; 758.3; 16-MAY-2010 04:57:14; Dark ; 44.0; 141; Bet Ara ; 2.84; 4600;occ; 88; 0;42916
 12; 934.3; 16-MAY-2010 05:00:10; Dark ; 34.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 68; 0;42916
 13; 1024.0; 16-MAY-2010 05:01:40; Dark ; 53.5; 25; 35Lam Sco ; 1.62; 28000;occ; 107; 0;42916
 14; 1164.5; 16-MAY-2010 05:04:00; Dark ; 52.5; 75; 26Eps Sco ; 2.29; 4250;occ; 105; 0;42916
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 17; 1727.3; 16-MAY-2010 05:13:23; Bright; 40.5; 104; 27Bet Lib ; 2.61; 13100;occ; 81; 0;42916
 18; 1856.7; 16-MAY-2010 05:15:33; Bright; 50.0; 120; 1Del Oph ; 2.73; 3200;occ; 100; 0;42916
 19; 2046.9; 16-MAY-2010 05:18:43; Bright; 44.5; 102; 24Alp Ser ; 2.60; 4250;occ; 89; 0;42916


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21; 2570.7; 16-MAY-2010 05:27:27; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;42916
22; 3091.8; 16-MAY-2010 05:36:08; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;42916
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2;-2074.4; 16-MAY-2010 05:50:38; Bright; 52.5; 74; 11Bet Cas ; 2.27; 6600;occ; 105; 0;42916
3;-1521.5; 16-MAY-2010 05:59:50; Dark ; 46.5; 58; 21Alp And ; 2.07; 11000;occ; 93; 0;42916
4;-1272.1; 16-MAY-2010 06:04:00; Dark ; 42.0; 140; 88Gam Peg ; 2.83; 26000;occ; 84; 0;42916
5;-1173.6; 16-MAY-2010 06:05:38; Dark ; 52.5; 90; 54Alp Peg ; 2.49; 11000;occ; 105; 0;42916
6; -355.6; 16-MAY-2010 06:19:16; Dark ; 48.5; 18; 24Alp PsA ; 1.17; 9700;occ; 97; 0;42916
7; -206.8; 16-MAY-2010 06:21:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42916
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9; 327.5; 16-MAY-2010 06:30:39; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;42917
10; 758.8; 16-MAY-2010 06:37:51; Dark ; 45.0; 141; Bet Ara ; 2.84; 4600;occ; 90; 0;42917
11; 935.1; 16-MAY-2010 06:40:47; Dark ; 34.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 68; 0;42917
12; 1024.7; 16-MAY-2010 06:42:17; Dark ; 54.0; 25; 35Lam Sco ; 1.62; 28000;occ; 108; 0;42917
13; 1165.0; 16-MAY-2010 06:44:37; Dark ; 51.5; 75; 26Eps Sco ; 2.29; 4250;occ; 103; 0;42917
14; 1350.8; 16-MAY-2010 06:47:43; Dark ; 63.5; 16; 21Alp Sco ; 1.02; 3000;occ; 127; 0;42917
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16; 1727.2; 16-MAY-2010 06:53:59; Bright; 39.5; 104; 27Bet Lib ; 2.61; 13100;occ; 79; 0;42917
17; 1856.8; 16-MAY-2010 06:56:09; Bright; 50.5; 120; 1Del Oph ; 2.73; 3200;occ; 101; 0;42917
18; 2046.8; 16-MAY-2010 06:59:19; Bright; 43.5; 102; 24Alp Ser ; 2.60; 4250;occ; 87; 0;42917
19; 2382.2; 16-MAY-2010 07:04:54; Bright; 39.0; 83; ; 2.38; 11000;occ; 78; 0;42917
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8; 3739.3; 17-MAY-2010 15:18:54; Bright; 47.0; 89; 5Alp Cep ; 2.45; 8000;occ; 94; 0;42936
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11; 4770.0; 17-MAY-2010 15:36:04; Dark ; 41.5; 140; 88Gam Peg ; 2.83; 26000;occ; 83; 0;42936
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13; 5696.9; 17-MAY-2010 15:51:31; Dark ; 52.5; 18; 24Alp PsA ; 1.17; 9700;occ; 105; 0;42936
14; 5847.3; 17-MAY-2010 15:54:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;42936
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18; 6805.2; 17-MAY-2010 16:10:00; Dark ; 40.5; 141; Bet Ara ; 2.84; 4600;occ; 81; 0;42937
19; 6989.7; 17-MAY-2010 16:13:04; Dark ; 55.0; 38; 20Eps Sgr ; 1.84; 11000;occ; 110; 0;42937
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 5; 2041.6; 17-MAY-2010 16:31:12; Bright; 43.5; 102; 24Alp Ser ; 2.60; 4250;occ; 87; 0;42937
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 8; 3082.2; 17-MAY-2010 16:48:33; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;42937
 9; 3738.9; 17-MAY-2010 16:59:29; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;42937
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 18; 6378.5; 17-MAY-2010 17:43:29; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;42938
 19; 6805.5; 17-MAY-2010 17:50:36; Dark ; 50.0; 141; Bet Ara ; 2.84; 4600;occ; 100; 0;42938
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 21; 6805.9; 17-MAY-2010 19:31:12; Dark ; 51.5; 141; Bet Ara ; 2.84; 4600;occ; 103; 0;42939
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 21; 4771.9; 18-MAY-2010 01:39:42; Dark ; 44.0; 140; 88Gam Peg ; 2.83; 26000;occ; 88; 0;42942
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6; 774.6; 18-MAY-2010 02:13:40; Dark ; 46.0; 141; Bet Ara ; 2.84; 4600;occ; 92; 0;42943
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11; 836.7; 18-MAY-2010 03:55:19; Dark ; 43.5; 147; Alp Ara ; 2.88; 26000;occ; 87; 0;42944
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17; 3055.2; 22-MAY-2010 02:25:49; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;43000
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15; 1843.1; 22-MAY-2010 03:46:13; Bright; 45.0; 120; 1Del Oph ; 2.73; 3200;occ; 90; 0;43001
16; 2028.5; 22-MAY-2010 03:49:18; Bright; 40.5; 102; 24Alp Ser ; 2.60; 4250;occ; 81; 0;43001
17; 2371.5; 22-MAY-2010 03:55:01; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;43001
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19; 3054.8; 22-MAY-2010 04:06:24; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;43001
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 4; 1377.8; 22-MAY-2010 20:24:27; Dark ; 52.0; 16; 21Alp Sco ; 1.02; 3000;occ; 104; 0;43011
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19;	3937.1;	22-MAY-2010	22:47:42;	Bright;	48.0;	76;	27Gam Cas	; 2.30;	30000;occ;	96;	0;43012
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 4; 404.7; 23-MAY-2010 21:17:13; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;43026
 5; 810.6; 23-MAY-2010 21:23:58; Dark ; 46.5; 141; Bet Ara ; 2.84; 4600;occ; 93; 0;43026
 6; 977.3; 23-MAY-2010 21:26:45; Dark ; 49.0; 40; The Sco ; 1.86; 7100;occ; 98; 0;43026
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13; 2369.8; 23-MAY-2010 21:49:58; Bright; 41.0; 83; ; 2.38; 11000;occ; 82; 0;43026
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16; 3936.5; 23-MAY-2010 22:16:04; Bright; 37.5; 76; 27Gam Cas ; 2.30; 30000;occ; 75; 0;43026
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19; 4533.1; 23-MAY-2010 22:26:01; Dark ; 51.5; 58; 21Alp And ; 2.07; 11000;occ; 103; 0;43026
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 14; 2370.0; 23-MAY-2010 23:30:34; Bright; 36.0; 83; ; 2.38; 11000;occ; 72; 0;43027
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 16; 3171.9; 23-MAY-2010 23:43:56; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;43027
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 3; 83.9; 24-MAY-2010 00:33:03; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;43028
 4; 405.9; 24-MAY-2010 00:38:25; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;43028
 5; 811.6; 24-MAY-2010 00:45:11; Dark ; 44.0; 141; Bet Ara ; 2.84; 4600;occ; 88; 0;43028
 6; 978.6; 24-MAY-2010 00:47:58; Dark ; 53.0; 40; The Sco ; 1.86; 7100;occ; 106; 0;43028
 7; 1089.1; 24-MAY-2010 00:49:49; Dark ; 49.5; 25; 35Lam Sco ; 1.62; 28000;occ; 99; 0;43028
 8; 1211.2; 24-MAY-2010 00:51:51; Dark ; 53.5; 75; 26Eps Sco ; 2.29; 4250;occ; 107; 0;43028
 9; 1381.7; 24-MAY-2010 00:54:41; Dark ; 50.0; 16; 21Alp Sco ; 1.02; 3000;occ; 100; 0;43028
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 11; 1734.4; 24-MAY-2010 01:00:34; Bright; 38.5; 104; 27Bet Lib ; 2.61; 13100;occ; 77; 0;43028
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 14; 2369.9; 24-MAY-2010 01:11:09; Bright; 39.5; 83; ; 2.38; 11000;occ; 79; 0;43028
 15; 3043.9; 24-MAY-2010 01:22:23; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;43028
 16; 3171.7; 24-MAY-2010 01:24:31; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;43028
 17; 3936.5; 24-MAY-2010 01:37:16; Bright; 50.0; 76; 27Gam Cas ; 2.30; 30000;occ; 100; 0;43028
 18; 4008.4; 24-MAY-2010 01:38:28; Bright; 55.0; 68; 18Alp Cas ; 2.22; 4500;occ; 110; 0;43028
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 4; 84.8; 24-MAY-2010 02:13:40; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;43029
 5; 406.7; 24-MAY-2010 02:19:02; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;43029
 6; 812.0; 24-MAY-2010 02:25:47; Dark ; 43.0; 141; Bet Ara ; 2.84; 4600;occ; 86; 0;43029
 7; 979.2; 24-MAY-2010 02:28:35; Dark ; 49.5; 40; The Sco ; 1.86; 7100;occ; 99; 0;43029
 8; 1089.7; 24-MAY-2010 02:30:25; Dark ; 49.0; 25; 35Lam Sco ; 1.62; 28000;occ; 98; 0;43029
 9; 1211.3; 24-MAY-2010 02:32:27; Dark ; 50.5; 75; 26Eps Sco ; 2.29; 4250;occ; 101; 0;43029
 10; 1382.2; 24-MAY-2010 02:35:18; Dark ; 59.0; 16; 21Alp Sco ; 1.02; 3000;occ; 118; 0;43029
 11; 1525.7; 24-MAY-2010 02:37:41; Bright; 41.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 83; 0;43029
 12; 1734.4; 24-MAY-2010 02:41:10; Bright; 15.0; 104; 27Bet Lib ; 2.61; 13100;occ; 30; 0;43029
 13; 1839.7; 24-MAY-2010 02:42:55; Bright; 45.0; 120; 1Del Oph ; 2.73; 3200;occ; 90; 0;43029
 14; 2023.9; 24-MAY-2010 02:45:59; Bright; 40.5; 102; 24Alp Ser ; 2.60; 4250;occ; 81; 0;43029
 15; 2369.7; 24-MAY-2010 02:51:45; Bright; 39.5; 83; ; 2.38; 11000;occ; 79; 0;43029
 16; 3043.3; 24-MAY-2010 03:02:59; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;43029
 17; 3171.8; 24-MAY-2010 03:05:07; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;43029

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 2; -2027.6; 24-MAY-2010 03:19:04; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;43029
 3; -1654.9; 24-MAY-2010 03:25:16; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;43029
 4; -1502.3; 24-MAY-2010 03:27:49; Dark ; 47.5; 58; 21Alp And ; 2.07; 11000;occ; 95; 0;43029
 5; -1234.2; 24-MAY-2010 03:32:17; Dark ; 46.5; 140; 88Gam Peg ; 2.83; 26000;occ; 93; 0;43029

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10; 407.6; 24-MAY-2010 03:59:39; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;43030
11; 812.5; 24-MAY-2010 04:06:24; Dark ; 49.0; 141; Bet Ara ; 2.84; 4600;occ; 98; 0;43030
12; 979.7; 24-MAY-2010 04:09:11; Dark ; 48.5; 40; The Sco ; 1.86; 7100;occ; 97; 0;43030
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19; 2023.8; 24-MAY-2010 04:26:35; Bright; 39.5; 102; 24Alp Ser ; 2.60; 4250;occ; 79; 0;43030
20; 2369.8; 24-MAY-2010 04:32:21; Bright; 37.5; 83; ; 2.38; 11000;occ; 75; 0;43030
21; 3043.0; 24-MAY-2010 04:43:34; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;43030
22; 3171.9; 24-MAY-2010 04:45:43; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;43030
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21; 3042.9; 24-MAY-2010 06:24:10; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;43031
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22; 4806.1; 24-MAY-2010 23:39:33; Dark ; 47.5; 140; 88Gam Peg ; 2.83; 26000;occ; 95; 0;43041
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5; 415.9; 25-MAY-2010 00:06:58; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;43042
6; 817.7; 25-MAY-2010 00:13:40; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;43042
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14; 2022.4; 25-MAY-2010 00:33:45; Bright; 39.0; 102; 24Alp Ser ; 2.60; 4250;occ; 78; 0;43042
15; 2369.0; 25-MAY-2010 00:39:32; Bright; 38.5; 83; ; 2.38; 11000;occ; 77; 0;43042
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9; 87.5; 24-MAY-2010 07:15:31; Dark ; 44.0; 31; Alp Gru ; 1.73; 15200;occ; 88; 0;43032
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13; 1091.3; 24-MAY-2010 07:32:15; Dark ; 48.5; 25; 35Lam Sco ; 1.62; 28000;occ; 97; 0;43032
14; 1212.3; 24-MAY-2010 07:34:16; Dark ; 45.5; 75; 26Eps Sco ; 2.29; 4250;occ; 91; 0;43032
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3; 2023.5; 24-MAY-2010 07:47:47; Bright; 40.5; 102; 24Alp Ser ; 2.60; 4250;occ; 81; 0;43032
4; 2369.5; 24-MAY-2010 07:53:33; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;43032
5; 3042.5; 24-MAY-2010 08:04:46; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;43032
6; 3171.6; 24-MAY-2010 08:06:55; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;43032
7; 3936.7; 24-MAY-2010 08:19:40; Bright; 38.0; 76; 27Gam Cas ; 2.30; 30000;occ; 76; 0;43032
8; 4008.2; 24-MAY-2010 08:20:51; Bright; 38.0; 68; 18Alp Cas ; 2.22; 4500;occ; 76; 0;43032
9; 4381.6; 24-MAY-2010 08:27:05; Bright; 38.5; 53; 43Bet And ; 2.05; 3300;occ; 77; 0;43032
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11; 4802.7; 24-MAY-2010 08:34:06; Dark ; 45.0; 140; 88Gam Peg ; 2.83; 26000;occ; 90; 0;43032
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13; 5785.9; 24-MAY-2010 08:50:29; Dark ; 53.5; 18; 24Alp PsA ; 1.17; 9700;occ; 107; 0;43032
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19; 7017.2; 24-MAY-2010 09:11:01; Dark ; 47.5; 40; The Sco ; 1.86; 7100;occ; 95; 0;43033
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 4; 2369.6; 24-MAY-2010 09:34:09; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;43033
 5; 3042.1; 24-MAY-2010 09:45:21; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0;43033
 6; 3171.5; 24-MAY-2010 09:47:31; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;43033
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10; 4534.6; 24-MAY-2010 11:50:50; Dark ; 49.5; 58; 21Alp And ; 2.07; 11000;occ; 99; 0;43034
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 6; 3040.4; 24-MAY-2010 16:27:43; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;43037
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 17; 6449.0; 24-MAY-2010 17:24:32; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;43038
 18; 6852.2; 24-MAY-2010 17:31:15; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;43038
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22; 6852.5; 24-MAY-2010 19:11:51; Dark ; 47.0; 141; Bet Ara ; 2.84; 4600;occ; 94; 0;43039
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21; 6450.5; 24-MAY-2010 20:45:45; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;43040
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 6; 818.1; 25-MAY-2010 01:54:16; Dark ; 43.0; 141; Bet Ara ; 2.84; 4600;occ; 86; 0;43043
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 8; 1097.1; 25-MAY-2010 01:58:55; Dark ; 50.5; 25; 35Lam Sco ; 1.62; 28000;occ; 101; 0;43043
 9; 1216.4; 25-MAY-2010 02:00:55; Dark ; 51.0; 75; 26Eps Sco ; 2.29; 4250;occ; 102; 0;43043
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13; 1838.6; 25-MAY-2010 02:11:17; Bright; 44.5; 120; 1Del Oph ; 2.73; 3200;occ; 89; 0;43043
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 9; 97.7; 25-MAY-2010 03:22:52; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;43044
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11; 818.6; 25-MAY-2010 03:34:53; Dark ; 47.5; 141; Bet Ara ; 2.84; 4600;occ; 95; 0;43044
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13; 1097.4; 25-MAY-2010 03:39:32; Dark ; 48.0; 25; 35Lam Sco ; 1.62; 28000;occ; 96; 0;43044
14; 1216.6; 25-MAY-2010 03:41:31; Dark ; 46.5; 75; 26Eps Sco ; 2.29; 4250;occ; 93; 0;43044
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16; 1527.8; 25-MAY-2010 03:46:42; Bright; 43.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 86; 0;43044
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 3; 3.4; 25-MAY-2010 21:47:53; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;43054
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2; 1838.0; 25-MAY-2010 10:34:16; Bright; 45.0; 120; 1Del Oph ; 2.73; 3200;occ; 90; 0;43048
3; 2021.6; 25-MAY-2010 10:37:20; Bright; 38.5; 102; 24Alp Ser ; 2.60; 4250;occ; 77; 0;43048
4; 2368.7; 25-MAY-2010 10:43:07; Bright; 39.0; 83; ; 2.38; 11000;occ; 78; 0;43048
5; 3036.6; 25-MAY-2010 10:54:15; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;43048
6; 3170.7; 25-MAY-2010 10:56:29; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;43048
7; 3935.6; 25-MAY-2010 11:09:14; Bright; 54.0; 76; 27Gam Cas ; 2.30; 30000;occ; 108; 0;43048
8; 4007.4; 25-MAY-2010 11:10:25; Bright; 37.0; 68; 18Alp Cas ; 2.22; 4500;occ; 74; 0;43048
9; 4383.4; 25-MAY-2010 11:16:41; Bright; 39.0; 53; 43Bet And ; 2.05; 3300;occ; 78; 0;43048
10; 4537.2; 25-MAY-2010 11:19:15; Dark ; 48.5; 58; 21Alp And ; 2.07; 11000;occ; 97; 0;43048
11; 4809.1; 25-MAY-2010 11:23:47; Dark ; 45.0; 140; 88Gam Peg ; 2.83; 26000;occ; 90; 0;43048
12; 5339.7; 25-MAY-2010 11:32:38; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;43048
13; 5865.5; 25-MAY-2010 11:41:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43048
14; 6034.6; 25-MAY-2010 11:44:13; Dark ; 59.0; 63; Bet Gru ; 2.15; 2800;occ; 118; 0;43048
15; 6138.3; 25-MAY-2010 11:45:56; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;43049
16; 6456.6; 25-MAY-2010 11:51:15; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;43049
17; 6856.5; 25-MAY-2010 11:57:55; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 0;43049
18; 7025.5; 25-MAY-2010 12:00:44; Dark ; 50.5; 40; The Sco ; 1.86; 7100;occ; 101; 0;43049
19; 7137.2; 25-MAY-2010 12:02:35; Dark ; 47.5; 115; 34Ups Sco ; 2.70; 26000;occ; 95; 0;43049
20; 7254.4; 25-MAY-2010 12:04:32; Dark ; 56.5; 75; 26Eps Sco ; 2.29; 4250;occ; 113; 0;43049
21; 7423.4; 25-MAY-2010 12:07:21; Dark ; 59.0; 16; 21Alp Sco ; 1.02; 3000;occ; 118; 0;43049
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3; 2021.5; 25-MAY-2010 12:17:55; Bright; 39.0; 102; 24Alp Ser ; 2.60; 4250;occ; 78; 0;43049
4; 2369.0; 25-MAY-2010 12:23:43; Bright; 38.5; 83; ; 2.38; 11000;occ; 77; 0;43049
5; 3036.3; 25-MAY-2010 12:34:50; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;43049
6; 3170.4; 25-MAY-2010 12:37:04; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;43049
7; 3935.7; 25-MAY-2010 12:49:50; Bright; 35.0; 76; 27Gam Cas ; 2.30; 30000;occ; 70; 0;43049
8; 4007.2; 25-MAY-2010 12:51:01; Bright; 40.0; 68; 18Alp Cas ; 2.22; 4500;occ; 80; 0;43049
9; 4383.6; 25-MAY-2010 12:57:18; Bright; 39.0; 53; 43Bet And ; 2.05; 3300;occ; 78; 0;43049
10; 4537.2; 25-MAY-2010 12:59:51; Dark ; 48.5; 58; 21Alp And ; 2.07; 11000;occ; 97; 0;43049
11; 4809.1; 25-MAY-2010 13:04:23; Dark ; 49.0; 140; 88Gam Peg ; 2.83; 26000;occ; 98; 0;43049
12; 5340.2; 25-MAY-2010 13:13:14; Dark ; 46.0; 52; 16Bet Cet ; 2.04; 4500;occ; 92; 0;43049
13; 5866.1; 25-MAY-2010 13:22:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43049
14; 6035.3; 25-MAY-2010 13:24:49; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;43049
15; 6138.8; 25-MAY-2010 13:26:33; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;43050
16; 6457.6; 25-MAY-2010 13:31:52; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;43050
17; 6857.1; 25-MAY-2010 13:38:31; Dark ; 43.5; 141; Bet Ara ; 2.84; 4600;occ; 87; 0;43050
18; 7026.0; 25-MAY-2010 13:41:20; Dark ; 51.0; 40; The Sco ; 1.86; 7100;occ; 102; 0;43050
19; 7136.2; 25-MAY-2010 13:43:10; Dark ; 49.5; 25; 35Lam Sco ; 1.62; 28000;occ; 99; 0;43050
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21; 7423.5; 25-MAY-2010 13:47:57; Dark ; 56.5; 16; 21Alp Sco ; 1.02; 3000;occ; 113; 0;43050
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3; 1838.0; 25-MAY-2010 13:55:28; Bright; 43.0; 120; 1Del Oph ; 2.73; 3200;occ; 86; 0;43050
4; 2021.4; 25-MAY-2010 13:58:31; Bright; 39.0; 102; 24Alp Ser ; 2.60; 4250;occ; 78; 0;43050
5; 2368.8; 25-MAY-2010 14:04:19; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;43050
6; 3035.6; 25-MAY-2010 14:15:25; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;43050
7; 3170.3; 25-MAY-2010 14:17:40; Bright; 42.0; 60; 7Bet UMi ; 2.08; 3950;occ; 84; 0;43050
8; 3935.9; 25-MAY-2010 14:30:26; Bright; 39.5; 76; 27Gam Cas ; 2.30; 30000;occ; 79; 0;43050
9; 4007.5; 25-MAY-2010 14:31:37; Bright; 55.0; 68; 18Alp Cas ; 2.22; 4500;occ; 110; 0;43050
10; 4384.0; 25-MAY-2010 14:37:54; Bright; 39.0; 53; 43Bet And ; 2.05; 3300;occ; 78; 0;43050
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12; 4810.0; 25-MAY-2010 14:45:00; Dark ; 48.0; 140; 88Gam Peg ; 2.83; 26000;occ; 96; 0;43050
13; 5340.6; 25-MAY-2010 14:53:50; Dark ; 45.5; 52; 16Bet Cet ; 2.04; 4500;occ; 91; 0;43050
14; 5866.8; 25-MAY-2010 15:02:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43050
15; 6139.9; 25-MAY-2010 15:07:10; Dark ; 44.0; 31; Alp Gru ; 1.73; 15200;occ; 88; 0;43051
16; 6458.4; 25-MAY-2010 15:12:28; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;43051
17; 6857.5; 25-MAY-2010 15:19:07; Dark ; 41.5; 141; Bet Ara ; 2.84; 4600;occ; 83; 0;43051
18; 7026.5; 25-MAY-2010 15:21:56; Dark ; 47.0; 40; The Sco ; 1.86; 7100;occ; 94; 0;43051
19; 7136.8; 25-MAY-2010 15:23:47; Dark ; 51.0; 25; 35Lam Sco ; 1.62; 28000;occ; 102; 0;43051
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 3; 1736.6; 25-MAY-2010 15:34:22; Bright; 38.5; 104; 27Bet Lib ; 2.61; 13100;occ; 77; 0;43051
 4; 1838.0; 25-MAY-2010 15:36:04; Bright; 43.0; 120; 1Del Oph ; 2.73; 3200;occ; 86; 0;43051
 5; 2021.4; 25-MAY-2010 15:39:07; Bright; 39.0; 102; 24Alp Ser ; 2.60; 4250;occ; 78; 0;43051
 6; 2368.9; 25-MAY-2010 15:44:55; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;43051
 7; 3035.6; 25-MAY-2010 15:56:01; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;43051
 8; 3170.4; 25-MAY-2010 15:58:16; Bright; 33.0; 60; 7Bet UMi ; 2.08; 3950;occ; 66; 0;43051
 9; 3935.8; 25-MAY-2010 16:11:02; Bright; 54.0; 76; 27Gam Cas ; 2.30; 30000;occ; 108; 0;43051
 10; 4007.4; 25-MAY-2010 16:12:13; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;43051
 11; 4384.3; 25-MAY-2010 16:18:30; Bright; 39.0; 53; 43Bet And ; 2.05; 3300;occ; 78; 0;43051
 12; 4538.0; 25-MAY-2010 16:21:04; Dark ; 50.0; 58; 21Alp And ; 2.07; 11000;occ; 100; 0;43051
 13; 4810.2; 25-MAY-2010 16:25:36; Dark ; 47.0; 140; 88Gam Peg ; 2.83; 26000;occ; 94; 0;43051
 14; 5341.2; 25-MAY-2010 16:34:27; Dark ; 47.0; 52; 16Bet Cet ; 2.04; 4500;occ; 94; 0;43051
 15; 5867.4; 25-MAY-2010 16:43:13; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;43051
 16; 6141.0; 25-MAY-2010 16:47:47; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;43052
 17; 6459.0; 25-MAY-2010 16:53:05; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;43052
 18; 6858.2; 25-MAY-2010 16:59:44; Dark ; 49.0; 141; Bet Ara ; 2.84; 4600;occ; 98; 0;43052
 19; 7027.3; 25-MAY-2010 17:02:33; Dark ; 48.5; 40; The Sco ; 1.86; 7100;occ; 97; 0;43052
 20; 7137.3; 25-MAY-2010 17:04:23; Dark ; 52.0; 25; 35Lam Sco ; 1.62; 28000;occ; 104; 0;43052
 21; 7255.7; 25-MAY-2010 17:06:21; Dark ; 48.5; 75; 26Eps Sco ; 2.29; 4250;occ; 97; 0;43052

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 5; 1388.7; 25-MAY-2010 20:30:22; Dark ; 52.0; 16; 21Alp Sco ; 1.02; 3000;occ; 104; 0;43054
 6; 1529.5; 25-MAY-2010 20:32:43; Bright; 42.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 84; 0;43054
 7; 1737.0; 25-MAY-2010 20:36:11; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;43054
 8; 1837.8; 25-MAY-2010 20:37:51; Bright; 45.0; 120; 1Del Oph ; 2.73; 3200;occ; 90; 0;43054
 9; 2020.5; 25-MAY-2010 20:40:54; Bright; 39.5; 102; 24Alp Ser ; 2.60; 4250;occ; 79; 0;43054
 10; 2385.0; 25-MAY-2010 20:46:59; Bright; 40.5; 67; 5Alp CrB ; 2.22; 11000;occ; 81; 0;43054
 11; 3034.5; 25-MAY-2010 20:57:48; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;43054
 12; 3170.1; 25-MAY-2010 21:00:04; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;43054
 13; 3935.7; 25-MAY-2010 21:12:49; Bright; 54.0; 76; 27Gam Cas ; 2.30; 30000;occ; 108; 0;43054
 14; 4006.8; 25-MAY-2010 21:14:00; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;43054
 15; 4384.2; 25-MAY-2010 21:20:18; Bright; 39.5; 53; 43Bet And ; 2.05; 3300;occ; 79; 0;43054
 16; 4538.4; 25-MAY-2010 21:22:52; Dark ; 49.0; 58; 21Alp And ; 2.07; 11000;occ; 98; 0;43054
 17; 4811.4; 25-MAY-2010 21:27:25; Dark ; 45.5; 140; 88Gam Peg ; 2.83; 26000;occ; 91; 0;43054

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 3; 1529.3; 25-MAY-2010 17:11:31; Bright; 41.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 82; 0;43052
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 5; 1838.1; 25-MAY-2010 17:16:40; Bright; 43.0; 120; 1Del Oph ; 2.73; 3200;occ; 86; 0;43052
 6; 2021.4; 25-MAY-2010 17:19:43; Bright; 39.0; 102; 24Alp Ser ; 2.60; 4250;occ; 78; 0;43052
 7; 2385.8; 25-MAY-2010 17:25:48; Bright; 40.5; 67; 5Alp CrB ; 2.22; 11000;occ; 81; 0;43052
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 10; 3935.4; 25-MAY-2010 17:51:37; Bright; 54.0; 76; 27Gam Cas ; 2.30; 30000;occ; 108; 0;43052
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 12; 4384.2; 25-MAY-2010 17:59:06; Bright; 39.5; 53; 43Bet And ; 2.05; 3300;occ; 79; 0;43052
 13; 4537.9; 25-MAY-2010 18:01:40; Dark ; 48.0; 58; 21Alp And ; 2.07; 11000;occ; 96; 0;43052
 14; 4810.8; 25-MAY-2010 18:06:13; Dark ; 47.0; 140; 88Gam Peg ; 2.83; 26000;occ; 94; 0;43052
 15; 5342.1; 25-MAY-2010 18:15:04; Dark ; 47.0; 52; 16Bet Cet ; 2.04; 4500;occ; 94; 0;43052
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 17; 6038.0; 25-MAY-2010 18:26:40; Dark ; 46.5; 63; Bet Gru ; 2.15; 2800;occ; 93; 0;43052
 18; 6141.8; 25-MAY-2010 18:28:24; Dark ; 44.0; 31; Alp Gru ; 1.73; 15200;occ; 88; 0;43053
 19; 6459.8; 25-MAY-2010 18:33:42; Dark ; 42.0; 45; Alp Pav ; 1.94; 26000;occ; 84; 0;43053
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 4; 1388.6; 25-MAY-2010 18:49:46; Dark ; 54.0; 16; 21Alp Sco ; 1.02; 3000;occ; 108; 0;43053
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8; 2020.8; 25-MAY-2010 19:00:19; Bright; 39.0; 102; 24Alp Ser ; 2.60; 4250;occ; 78; 0;43053
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13; 4007.0; 25-MAY-2010 19:33:25; Bright; 36.0; 68; 18Alp Cas ; 2.22; 4500;occ; 72; 0;43053
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22; 6859.0; 25-MAY-2010 20:20:57; Dark ; 46.5; 141; Bet Ara ; 2.84; 4600;occ; 93; 0;43054
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3; 4.9; 26-MAY-2010 01:09:06; Dark ; 43.5; 63; Bet Gru ; 2.15; 2800;occ; 87; 0;43056
4; 109.2; 26-MAY-2010 01:10:50; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;43057
5; 426.4; 26-MAY-2010 01:16:08; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;43057
6; 824.2; 26-MAY-2010 01:22:46; Dark ; 44.5; 141; Bet Ara ; 2.84; 4600;occ; 89; 0;43057
7; 993.8; 26-MAY-2010 01:25:35; Dark ; 48.5; 40; The Sco ; 1.86; 7100;occ; 97; 0;43057
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13; 1837.4; 26-MAY-2010 01:39:39; Bright; 43.0; 120; 1Del Oph ; 2.73; 3200;occ; 86; 0;43057
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28; 6860.4; 26-MAY-2010 03:03:22; Dark ; 46.0; 141; Bet Ara ; 2.84; 4600;occ; 92; 0;43058
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33; 7566.0; 26-MAY-2010 03:15:07; Bright; 40.5; 97; 8Bet1Sco ; 2.56; 30000;occ; 81; 0;43058
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 3;-2100.6; 26-MAY-2010 03:55:13; Bright; 54.0; 76; 27Gam Cas ; 2.30; 30000;occ; 108; 0;43058
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 5;-1651.2; 26-MAY-2010 04:02:42; Bright; 40.0; 53; 43Bet And ; 2.05; 3300;occ; 80; 0;43058
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 7;-1222.9; 26-MAY-2010 04:09:50; Dark ; 46.5; 140; 88Gam Peg ; 2.83; 26000;occ; 93; 0;43058
 8; -691.4; 26-MAY-2010 04:18:42; Dark ; 45.0; 52; 16Bet Cet ; 2.04; 4500;occ; 90; 0;43058
 9; -164.6; 26-MAY-2010 04:27:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43058
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 11; 111.0; 26-MAY-2010 04:32:04; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 0;43059
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 16; 1222.4; 26-MAY-2010 04:50:36; Dark ; 47.5; 75; 26Eps Sco ; 2.29; 4250;occ; 95; 0;43059
 17; 1350.7; 26-MAY-2010 04:52:44; Dark ; 44.0; 136; 23Tau Sco ; 2.82; 30000;occ; 88; 0;43059
 18; 1530.4; 26-MAY-2010 04:55:44; Bright; 42.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 84; 0;43059
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 4;-1496.7; 26-MAY-2010 05:45:52; Dark ; 51.5; 58; 21Alp And ; 2.07; 11000;occ; 103; 0;43059
 5;-1222.6; 26-MAY-2010 05:50:27; Dark ; 49.0; 140; 88Gam Peg ; 2.83; 26000;occ; 98; 0;43059
 6; -690.9; 26-MAY-2010 05:59:18; Dark ; 44.5; 52; 16Bet Cet ; 2.04; 4500;occ; 89; 0;43059
 7; -164.0; 26-MAY-2010 06:08:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43059
 8; 7.2; 26-MAY-2010 06:10:56; Dark ; 46.5; 63; Bet Gru ; 2.15; 2800;occ; 93; 0;43059
 9; 111.4; 26-MAY-2010 06:12:41; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;43060
 10; 428.5; 26-MAY-2010 06:17:58; Dark ; 42.5; 45; Alp Pav ; 1.94; 26000;occ; 85; 0;43060
 11; 825.5; 26-MAY-2010 06:24:35; Dark ; 44.0; 141; Bet Ara ; 2.84; 4600;occ; 88; 0;43060
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 13; 1105.3; 26-MAY-2010 06:29:15; Dark ; 48.0; 25; 35Lam Sco ; 1.62; 28000;occ; 96; 0;43060
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 16; 1530.5; 26-MAY-2010 06:36:20; Bright; 41.0; 97; 8Bet1Sco ; 2.56; 30000;occ; 82; 0;43060
 17; 1737.3; 26-MAY-2010 06:39:46; Bright; 9.0; 104; 27Bet Lib ; 2.61; 13100;occ; 18; 0;43060
 18; 2020.4; 26-MAY-2010 06:44:30; Bright; 38.5; 102; 24Alp Ser ; 2.60; 4250;occ; 77; 0;43060
 19; 2383.6; 26-MAY-2010 06:50:33; Bright; 57.0; 67; 5Alp CrB ; 2.22; 11000;occ; 114; 0;43060
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7; 4006.9; 26-MAY-2010 08:58:12; Bright; 56.0; 68; 18Alp Cas ; 2.22; 4500;occ; 112; 0;43061
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4; 3031.1; 26-MAY-2010 12:03:08; Bright; 40.5; 119; 14Eta Dra ; 2.73; 4700;occ; 81; 0;43063
5; 3169.1; 26-MAY-2010 12:05:26; Bright; 53.0; 60; 7Bet UMi ; 2.08; 3950;occ; 106; 0;43063
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7; 4006.5; 26-MAY-2010 12:19:23; Bright; 39.0; 68; 18Alp Cas ; 2.22; 4500;occ; 78; 0;43063
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 16; 6863.6; 26-MAY-2010 13:07:00; Dark ; 42.0; 141; Bet Ara ; 2.84; 4600;occ; 84; 0;43064
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 5; 434.8; 26-MAY-2010 21:23:27; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;43069
 6; 829.3; 26-MAY-2010 21:30:02; Dark ; 42.5; 141; Bet Ara ; 2.84; 4600;occ; 85; 0;43069
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 12; 1738.3; 26-MAY-2010 21:45:11; Bright; 37.0; 104; 27Bet Lib ; 2.61; 13100;occ; 74; 0;43069
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 5; 435.4; 26-MAY-2010 23:04:04; Dark ; 41.5; 45; Alp Pav ; 1.94; 26000;occ; 83; 0;43070
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 10; 2554.4; 28-MAY-2010 20:55:33; Bright; 47.5; 133; 40Zet Her ; 2.81; 6000;occ; 95; 0;43097
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 7; 914.5; 28-MAY-2010 22:08:49; Dark ; 42.5; 147; Alp Ara ; 2.88; 26000;occ; 85; 0;43098


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