

GOMOS Daily Report 29-JUL-2009

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	01AUG2009 04:48:48
Data source version	GOMOS/5.00
Start time of products	29JUL2009 00:03:16
Stop time of products	29JUL2009 23:56:29
Store outputs in DB	Yes
Nb of level 1b prods	95
Nb of prods with errors	2

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

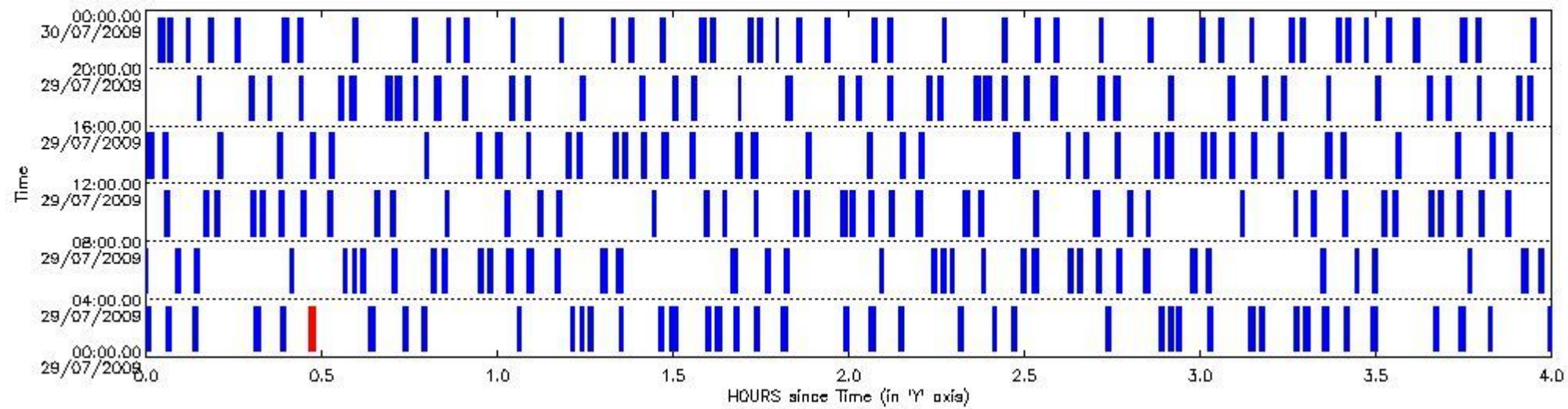
2.1 Level 0 products arrived in PCF (see template [here](#))

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
29-JUL-2009 00:27:52	The1Eri	157	38747

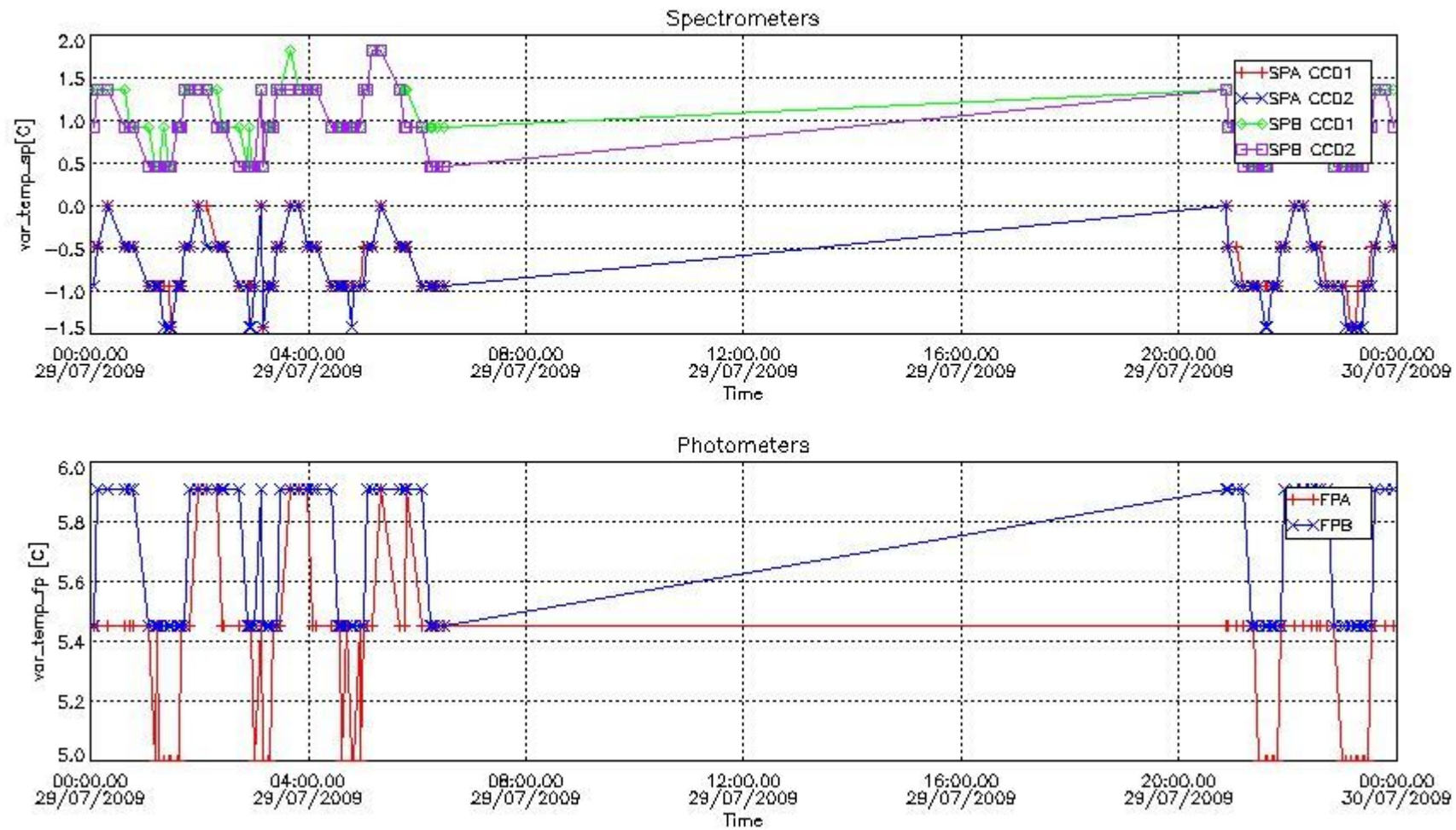
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090729_000316_000000522081_00116_38747_8987.N1	29-JUL-2009 00:03:16	Twilight_and_stray	51.500	150	44Zet Per	2.8900	28000.	103	38747	No
2	GOM_TRA_1PNPDE20090729_000755_000000512081_00116_38747_8988.N1	29-JUL-2009 00:07:55	Dark	51.000	13	87Alp Tau	0.86700	3800.0	102	38747	No
3	GOM_TRA_1PNPDE20090729_001830_000000592081_00116_38747_9130.N1	29-JUL-2009 00:18:30	Dark	58.500	165	34Gam Eri	2.9500	3200.0	117	38747	No
4	GOM_TRA_1PNPDE20090729_003803_000000572081_00117_38748_9131.N1	29-JUL-2009 00:38:03	Straylight	57.000	84	Alp Phe	2.3970	4500.0	114	38748	No
5	GOM_TRA_1PNPDE20090729_004353_000000452081_00117_38748_9132.N1	29-JUL-2009 00:43:53	Straylight	44.500	31	Alp Gru	1.7340	15200.	89	38748	No
6	GOM_TRA_1PNPDE20090729_004703_000000462081_00117_38748_9133.N1	29-JUL-2009 00:47:03	Straylight	46.000	172	Gam Gru	3.0030	13100.	92	38748	No
7	GOM_TRA_1PNPDE20090729_010320_000000412081_00117_38748_9134.N1	29-JUL-2009 01:03:20	Bright	41.000	11	53Alp Aql	0.76500	8000.0	82	38748	No
8	GOM_TRA_1PNPDE20090729_011221_000000462081_00117_38748_9135.N1	29-JUL-2009 01:12:21	Bright	46.000	92	53Eps Cyg	2.5000	4500.0	92	38748	No
9	GOM_TRA_1PNPDE20090729_011402_000000382081_00117_38748_9136.N1	29-JUL-2009 01:14:02	Bright	37.500	144	18Del Cyg	2.8600	11000.	75	38748	No
10	GOM_TRA_1PNPDE20090729_011525_000000472081_00117_38748_9137.N1	29-JUL-2009 01:15:25	Bright	47.000	19	50Alp Cyg	1.2460	10500.	94	38748	No

11	GOM_TRA_1PNPDE20090729_012047_000000392081_00117_38748_9138.N1	29-JUL-2009 01:20:47	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	38748	No
12	GOM_TRA_1PNPDE20090729_012731_000000512081_00117_38748_9139.N1	29-JUL-2009 01:27:31	Bright	51.000	74	11Bet Cas	2.2680	6600.0	102	38748	No
13	GOM_TRA_1PNPDE20090729_012922_000000722081_00117_38748_9140.N1	29-JUL-2009 01:29:22	Bright	72.000	76	27Gam Cas	2.3000	30000.	144	38748	No
14	GOM_TRA_1PNPDE20090729_013531_000000472081_00117_38748_9141.N1	29-JUL-2009 01:35:31	Bright	46.500	160	23Gam Per	2.9300	4700.0	93	38748	No
15	GOM_TRA_1PNPDE20090729_013706_000000612081_00117_38748_9142.N1	29-JUL-2009 01:37:06	Bright	60.500	35	33Alp Per	1.7950	6250.0	121	38748	No
16	GOM_TRA_1PNPDE20090729_014019_000000562081_00117_38748_9143.N1	29-JUL-2009 01:40:19	Bright	55.500	79	26Bet Per	2.3100	13100.	111	38748	No
17	GOM_TRA_1PNPDE20090729_014352_000000512081_00117_38748_9144.N1	29-JUL-2009 01:43:52	Tw_i_and_stray	51.000	150	44Zet Per	2.8900	28000.	102	38748	No
18	GOM_TRA_1PNPDE20090729_014831_000000612081_00117_38748_9145.N1	29-JUL-2009 01:48:31	Dark	60.500	13	87Alp Tau	0.86700	3800.0	121	38748	No
19	GOM_TRA_1PNPDE20090729_015906_000000552081_00117_38748_9277.N1	29-JUL-2009 01:59:06	Dark	54.500	165	34Gam Eri	2.9500	3200.0	109	38748	No
20	GOM_TRA_1PNPDE20090729_020830_000000442081_00117_38748_9278.N1	29-JUL-2009 02:08:30	Dark	44.000	157	The1Eri	2.9060	9300.0	88	38748	No
21	GOM_TRA_1PNPDE20090729_021840_000000522081_00118_38749_9279.N1	29-JUL-2009 02:18:40	Straylight	52.000	84	Alp Phe	2.3970	4500.0	104	38749	No
22	GOM_TRA_1PNPDE20090729_022430_000000442081_00118_38749_9280.N1	29-JUL-2009 02:24:30	Straylight	43.500	31	Alp Gru	1.7340	15200.	87	38749	No
23	GOM_TRA_1PNPDE20090729_022740_000000472081_00118_38749_9281.N1	29-JUL-2009 02:27:40	Straylight	47.000	172	Gam Gru	3.0030	13100.	94	38749	No
24	GOM_TRA_1PNPDE20090729_024356_000000392081_00118_38749_9282.N1	29-JUL-2009 02:43:56	Bright	38.500	11	53Alp Aql	0.76500	8000.0	77	38749	No
25	GOM_TRA_1PNPDE20090729_025256_000000472081_00118_38749_9283.N1	29-JUL-2009 02:52:56	Bright	46.500	92	53Eps Cyg	2.5000	4500.0	93	38749	No
26	GOM_TRA_1PNPDE20090729_025437_000000382081_00118_38749_9284.N1	29-JUL-2009 02:54:37	Bright	38.000	144	18Del Cyg	2.8600	11000.	76	38749	No
27	GOM_TRA_1PNPDE20090729_025600_000000412081_00118_38749_9285.N1	29-JUL-2009 02:56:00	Bright	41.000	19	50Alp Cyg	1.2460	10500.	82	38749	No
28	GOM_TRA_1PNPDE20090729_030122_000000392081_00118_38749_9286.N1	29-JUL-2009 03:01:22	Bright	39.000	89	5Alp Cep	2.4510	8000.0	78	38749	No
29	GOM_TRA_1PNPDE20090729_030806_000000742081_00118_38749_9416.N1	29-JUL-2009 03:08:06	Bright	74.000	74	11Bet Cas	2.2680	6600.0	148	38749	Yes
30	GOM_TRA_1PNPDE20090729_030958_000000512081_00118_38749_9417.N1	29-JUL-2009 03:09:58	Bright	51.000	76	27Gam Cas	2.3000	30000.	102	38749	No
31	GOM_TRA_1PNPDE20090729_031606_000000462081_00118_38749_9418.N1	29-JUL-2009 03:16:06	Bright	45.500	160	23Gam Per	2.9300	4700.0	91	38749	No
32	GOM_TRA_1PNPDE20090729_031742_000000512081_00118_38749_9419.N1	29-JUL-2009 03:17:42	Bright	50.500	35	33Alp Per	1.7950	6250.0	101	38749	No
33	GOM_TRA_1PNPDE20090729_032054_000000572081_00118_38749_9420.N1	29-JUL-2009 03:20:54	Bright	57.000	79	26Bet Per	2.3100	13100.	114	38749	No
34	GOM_TRA_1PNPDE20090729_032428_000000522081_00118_38749_9421.N1	29-JUL-2009 03:24:28	Tw_i_and_stray	52.000	150	44Zet Per	2.8900	28000.	104	38749	No
35	GOM_TRA_1PNPDE20090729_032907_000000612081_00118_38749_9422.N1	29-JUL-2009 03:29:07	Dark	61.000	13	87Alp Tau	0.86700	3800.0	122	38749	No
36	GOM_TRA_1PNPDE20090729_033943_000000552081_00118_38749_9423.N1	29-JUL-2009 03:39:43	Dark	54.500	165	34Gam Eri	2.9500	3200.0	109	38749	No
37	GOM_TRA_1PNPDE20090729_034907_000000462081_00118_38749_9424.N1	29-JUL-2009 03:49:07	Dark	45.500	157	The1Eri	2.9060	9300.0	91	38749	No
38	GOM_TRA_1PNPDE20090729_035917_000000582081_00119_38750_9425.N1	29-JUL-2009 03:59:17	Straylight	57.500	84	Alp Phe	2.3970	4500.0	115	38750	No
39	GOM_TRA_1PNPDE20090729_040506_000000452081_00119_38750_9426.N1	29-JUL-2009 04:05:06	Straylight	45.000	31	Alp Gru	1.7340	15200.	90	38750	No
40	GOM_TRA_1PNPDE20090729_040817_000000462081_00119_38750_9427.N1	29-JUL-2009 04:08:17	Straylight	46.000	172	Gam Gru	3.0030	13100.	92	38750	No
41	GOM_TRA_1PNPDE20090729_042432_000000402081_00119_38750_9428.N1	29-JUL-2009 04:24:32	Bright	40.000	11	53Alp Aql	0.76500	8000.0	80	38750	No
42	GOM_TRA_1PNPDE20090729_043332_000000462081_00119_38750_9429.N1	29-JUL-2009 04:33:32	Bright	46.000	92	53Eps Cyg	2.5000	4500.0	92	38750	No
43	GOM_TRA_1PNPDE20090729_043513_000000402081_00119_38750_9430.N1	29-JUL-2009 04:35:13	Bright	39.500	144	18Del Cyg	2.8600	11000.	79	38750	No
44	GOM_TRA_1PNPDE20090729_043636_000000432081_00119_38750_9431.N1	29-JUL-2009 04:36:36	Bright	43.000	19	50Alp Cyg	1.2460	10500.	86	38750	No
45	GOM_TRA_1PNPDE20090729_044158_000000422081_00119_38750_9432.N1	29-JUL-2009 04:41:58	Bright	41.500	89	5Alp Cep	2.4510	8000.0	83	38750	No
46	GOM_TRA_1PNPDE20090729_044841_000000512081_00119_38750_9433.N1	29-JUL-2009 04:48:41	Bright	51.000	74	11Bet Cas	2.2680	6600.0	102	38750	No
47	GOM_TRA_1PNPDE20090729_045033_000000482081_00119_38750_9592.N1	29-JUL-2009 04:50:33	Bright	48.000	76	27Gam Cas	2.3000	30000.	96	38750	No
48	GOM_TRA_1PNPDE20090729_045642_000000462081_00119_38750_9593.N1	29-JUL-2009 04:56:42	Bright	46.000	160	23Gam Per	2.9300	4700.0	92	38750	No
49	GOM_TRA_1PNPDE20090729_045818_000000492081_00119_38750_9594.N1	29-JUL-2009 04:58:18	Bright	49.000	35	33Alp Per	1.7950	6250.0	98	38750	No
50	GOM_TRA_1PNPDE20090729_050130_000000582081_00119_38750_9595.N1	29-JUL-2009 05:01:30	Bright	57.500	79	26Bet Per	2.3100	13100.	115	38750	No
51	GOM_TRA_1PNPDE20090729_050505_000000522081_00119_38750_9596.N1	29-JUL-2009 05:05:05	Tw_i_and_stray	51.500	150	44Zet Per	2.8900	28000.	103	38750	No
52	GOM_TRA_1PNPDE20090729_050943_000000532081_00119_38750_9597.N1	29-JUL-2009 05:09:43	Dark	52.500	13	87Alp Tau	0.86700	3800.0	105	38750	No
53	GOM_TRA_1PNPDE20090729_052020_000000542081_00119_38750_9598.N1	29-JUL-2009 05:20:20	Dark	53.500	165	34Gam Eri	2.9500	3200.0	107	38750	No
54	GOM_TRA_1PNPDE20090729_053954_000000552081_00120_38751_9599.N1	29-JUL-2009 05:39:54	Straylight	54.500	84	Alp Phe	2.3970	4500.0	109	38751	No
55	GOM_TRA_1PNPDE20090729_054543_000000452081_00120_38751_9600.N1	29-JUL-2009 05:45:43	Straylight	44.500	31	Alp Gru	1.7340	15200.	89	38751	No
56	GOM_TRA_1PNPDE20090729_054853_000000472081_00120_38751_9601.N1	29-JUL-2009 05:48:53	Straylight	47.000	172	Gam Gru	3.0030	13100.	94	38751	No
57	GOM_TRA_1PNPDE20090729_060508_000000412081_00120_38751_9602.N1	29-JUL-2009 06:05:08	Bright	41.000	11	53Alp Aql	0.76500	8000.0	82	38751	No
58	GOM_TRA_1PNPDE20090729_061407_000000472081_00120_38751_9603.N1	29-JUL-2009 06:14:07	Bright	47.000	92	53Eps Cyg	2.5000	4500.0	94	38751	No
59	GOM_TRA_1PNPDE20090729_061549_000000382081_00120_38751_9604.N1	29-JUL-2009 06:15:49	Bright	37.500	144	18Del Cyg	2.8600	11000.	75	38751	No
60	GOM_TRA_1PNPDE20090729_061711_000000442081_00120_38751_9605.N1	29-JUL-2009 06:17:11	Bright	43.500	19	50Alp Cyg	1.2460	10500.	87	38751	No
61	GOM_TRA_1PNPDE20090729_062234_000000412081_00120_38751_9606.N1	29-JUL-2009 06:22:34	Bright	41.000	89	5Alp Cep	2.4510	8000.0	82	38751	No
62	GOM_TRA_1PNPDE20090729_062916_000000502081_00120_38751_9607.N1	29-JUL-2009 06:29:16	Bright	50.000	74	11Bet Cas	2.2680	6600.0	100	38751	No
63	GOM_TRA_1PNPDE20090729_205111_000000422081_00129_38760_0236.N1	29-JUL-2009 20:51:11	Straylight	42.000	31	Alp Gru	1.7340	15200.	84	38760	Yes
64	GOM_TRA_1PNPDE20090729_205421_000000472081_00129_38760_0237.N1	29-JUL-2009 20:54:21	Straylight	47.000	172	Gam Gru	3.0030	13100.	94	38760	No
65	GOM_TRA_1PNPDE20090729_210216_000000322081_00129_38760_0238.N1	29-JUL-2009 21:02:16	Tw_i_and_stray	32.000	142	49Del Cap	2.8500	8900.0	64	38760	No
66	GOM_TRA_1PNPDE20090729_211030_000000382081_00129_38760_0239.N1	29-JUL-2009 21:10:30	Bright	37.500	11	53Alp Aql	0.76500	8000.0	75	38760	No
67	GOM_TRA_1PNPDE20090729_211925_000000412081_00129_38760_0240.N1	29-JUL-2009 21:19:25	Bright	41.000	92	53Eps Cyg	2.5000	4500.0	82	38760	No
68	GOM_TRA_1PNPDE20090729_212230_000000442081_00129_38760_0241.N1	29-JUL-2009 21:22:30	Bright	44.000	19	50Alp Cyg	1.2460	10500.	88	38760	No
69	GOM_TRA_1PNPDE20090729_212753_000000422081_00129_38760_0242.N1	29-JUL-2009 21:27:53	Bright	42.000	89	5Alp Cep	2.4510	8000.0	84	38760	No

70	GOM_TRA_1PNPDE20090729_213432_00000522081_00129_38760_0243.N1	29-JUL-2009 21:34:32	Bright	52.000	74	11Bet Cas	2.2680	6600.0	104	38760	No
71	GOM_TRA_1PNPDE20090729_213626_000000482081_00129_38760_0244.N1	29-JUL-2009 21:36:26	Bright	47.500	76	27Gam Cas	2.3000	30000.	95	38760	No
72	GOM_TRA_1PNPDE20090729_214238_000000582081_00129_38760_0245.N1	29-JUL-2009 21:42:38	Bright	58.000	160	23Gam Per	2.9300	4700.0	116	38760	No
73	GOM_TRA_1PNPDE20090729_214415_000000642081_00129_38760_0246.N1	29-JUL-2009 21:44:15	Bright	63.500	35	33Alp Per	1.7950	6250.0	127	38760	No
74	GOM_TRA_1PNPDE20090729_214728_000000282081_00129_38760_0247.N1	29-JUL-2009 21:47:28	Tw_i_and_stray	28.000	79	26Bet Per	2.3100	13100.	56	38760	No
75	GOM_TRA_1PNPDE20090729_215105_000000542081_00129_38760_0248.N1	29-JUL-2009 21:51:05	Tw_i_and_stray	53.500	150	44Zet Per	2.8900	28000.	107	38760	No
76	GOM_TRA_1PNPDE20090729_215546_000000592081_00129_38760_0249.N1	29-JUL-2009 21:55:46	Dark	58.500	13	87Alp Tau	0.86700	3800.0	117	38760	No
77	GOM_TRA_1PNPDE20090729_220628_000000562081_00129_38760_0394.N1	29-JUL-2009 22:06:28	Dark	55.500	165	34Gam Eri	2.9500	3200.0	111	38760	No
78	GOM_TRA_1PNPDE20090729_221552_000000462081_00129_38760_0395.N1	29-JUL-2009 22:15:52	Dark	45.500	157	The1Eri	2.9060	9300.0	91	38760	No
79	GOM_TRA_1PNPDE20090729_222605_000000572081_00130_38761_0396.N1	29-JUL-2009 22:26:05	Straylight	57.000	84	Alp Phe	2.3970	4500.0	114	38761	No
80	GOM_TRA_1PNPDE20090729_223148_000000532081_00130_38761_0397.N1	29-JUL-2009 22:31:48	Straylight	52.500	31	Alp Gru	1.7340	15200.	105	38761	No
81	GOM_TRA_1PNPDE20090729_223457_000000472081_00130_38761_0398.N1	29-JUL-2009 22:34:57	Straylight	46.500	172	Gam Gru	3.0030	13100.	93	38761	No
82	GOM_TRA_1PNPDE20090729_224252_000000322081_00130_38761_0399.N1	29-JUL-2009 22:42:52	Tw_i_and_stray	32.000	142	49Del Cap	2.8500	8900.0	64	38761	No
83	GOM_TRA_1PNPDE20090729_225106_000000402081_00130_38761_0400.N1	29-JUL-2009 22:51:06	Bright	40.000	11	53Alp Aql	0.76500	8000.0	80	38761	No
84	GOM_TRA_1PNPDE20090729_230001_000000422081_00130_38761_0401.N1	29-JUL-2009 23:00:01	Bright	41.500	92	53Eps Cyg	2.5000	4500.0	83	38761	No
85	GOM_TRA_1PNPDE20090729_230305_000000462081_00130_38761_0402.N1	29-JUL-2009 23:03:05	Bright	45.500	19	50Alp Cyg	1.2460	10500.	91	38761	No
86	GOM_TRA_1PNPDE20090729_230828_000000382081_00130_38761_0403.N1	29-JUL-2009 23:08:28	Bright	37.500	89	5Alp Cep	2.4510	8000.0	75	38761	No
87	GOM_TRA_1PNPDE20090729_231507_000000492081_00130_38761_0404.N1	29-JUL-2009 23:15:07	Bright	48.500	74	11Bet Cas	2.2680	6600.0	97	38761	No
88	GOM_TRA_1PNPDE20090729_231701_000000502081_00130_38761_0405.N1	29-JUL-2009 23:17:01	Bright	50.000	76	27Gam Cas	2.3000	30000.	100	38761	No
89	GOM_TRA_1PNPDE20090729_232314_000000482081_00130_38761_0406.N1	29-JUL-2009 23:23:14	Bright	47.500	160	23Gam Per	2.9300	4700.0	95	38761	No
90	GOM_TRA_1PNPDE20090729_232450_000000482081_00130_38761_0407.N1	29-JUL-2009 23:24:50	Bright	48.000	35	33Alp Per	1.7950	6250.0	96	38761	No
91	GOM_TRA_1PNPDE20090729_232804_000000282081_00130_38761_0408.N1	29-JUL-2009 23:28:04	Tw_i_and_stray	28.000	79	26Bet Per	2.3100	13100.	56	38761	No
92	GOM_TRA_1PNPDE20090729_233141_000000492081_00130_38761_0409.N1	29-JUL-2009 23:31:41	Tw_i_and_stray	49.000	150	44Zet Per	2.8900	28000.	98	38761	No
93	GOM_TRA_1PNPDE20090729_233623_000000582081_00130_38761_0410.N1	29-JUL-2009 23:36:23	Dark	57.500	13	87Alp Tau	0.86700	3800.0	115	38761	No
94	GOM_TRA_1PNPDE20090729_234705_000000542081_00130_38761_0541.N1	29-JUL-2009 23:47:05	Dark	53.500	165	34Gam Eri	2.9500	3200.0	107	38761	No
95	GOM_TRA_1PNPDE20090729_235629_000000442081_00130_38761_0542.N1	29-JUL-2009 23:56:29	Dark	44.000	157	The1Eri	2.9060	9300.0	88	38761	No

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



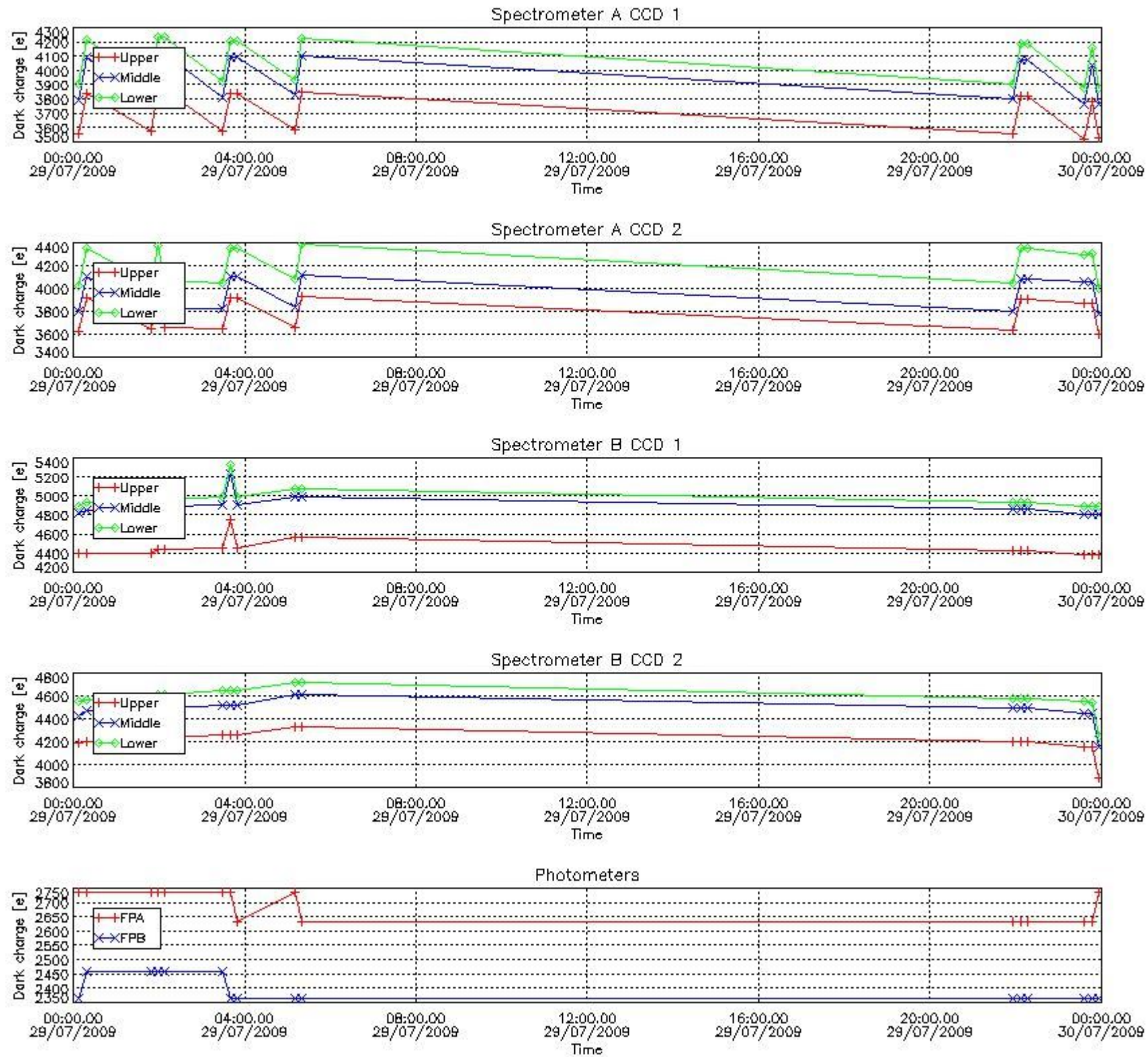
4. Overview of dark signal processing per product

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 All products used the DSA observation for the DC computation

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



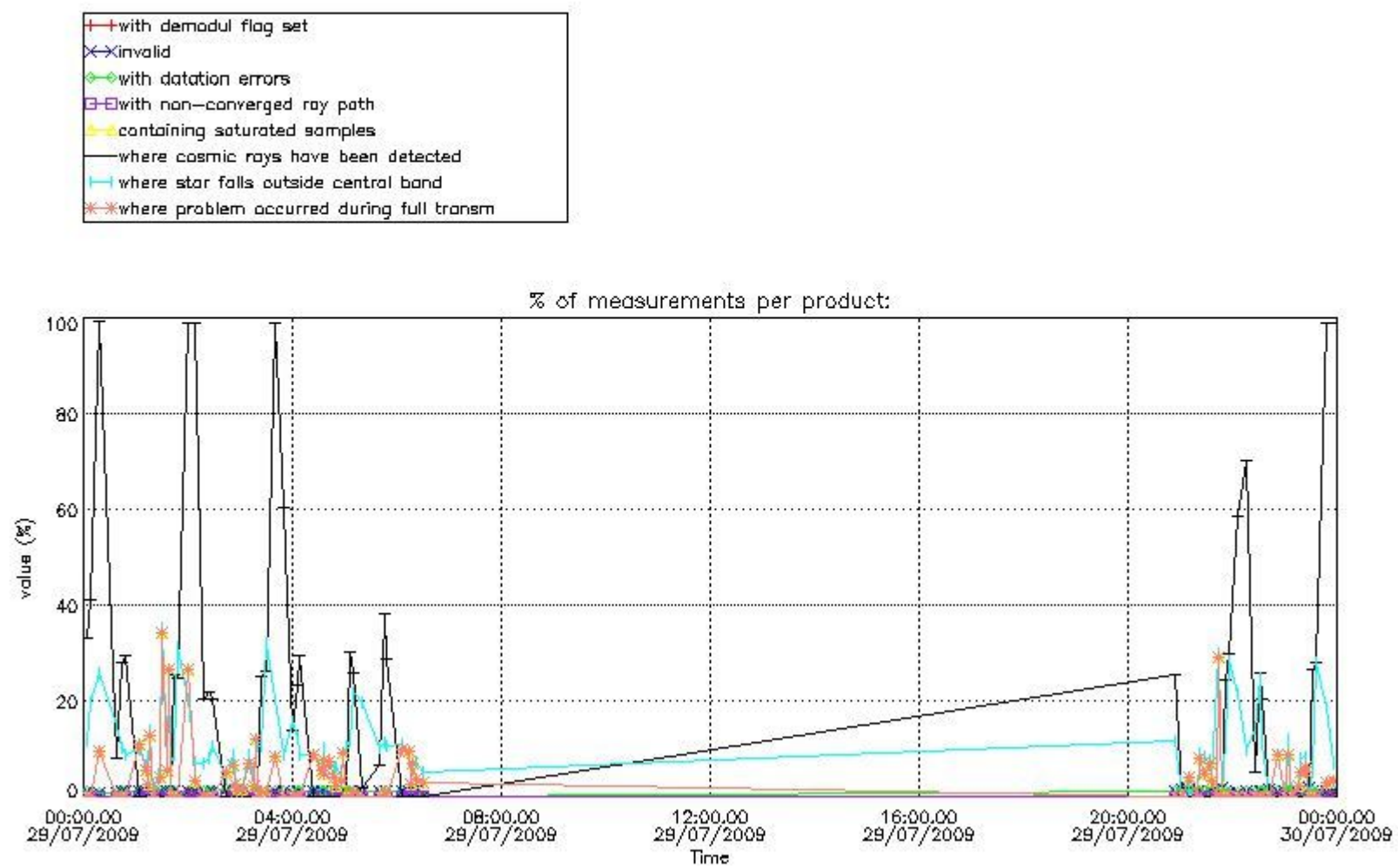
5. Demodulation flag and quality information monitoring

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.

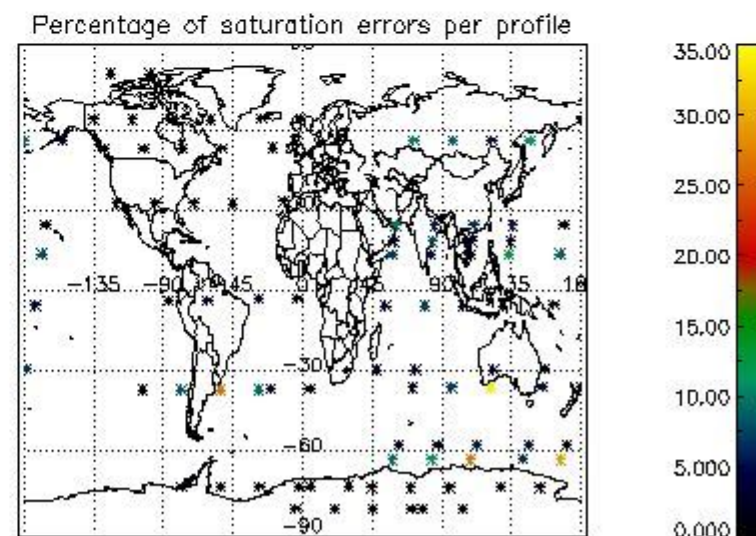
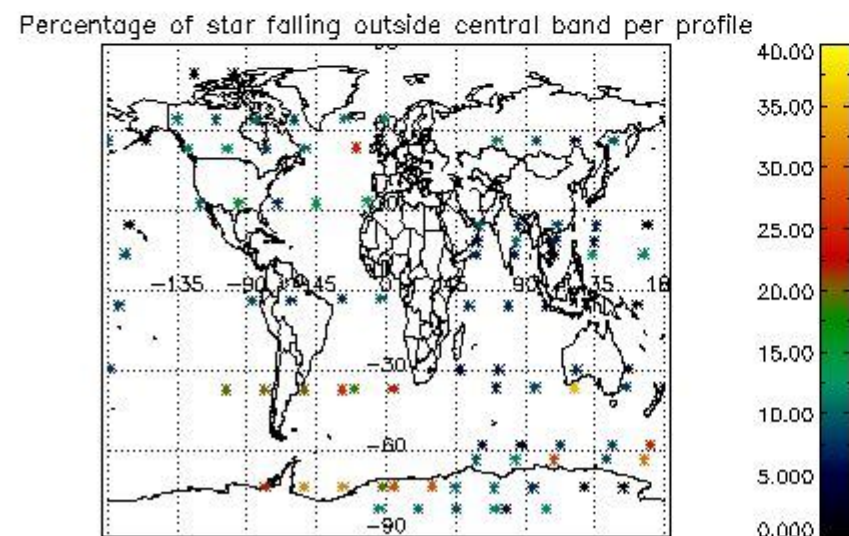
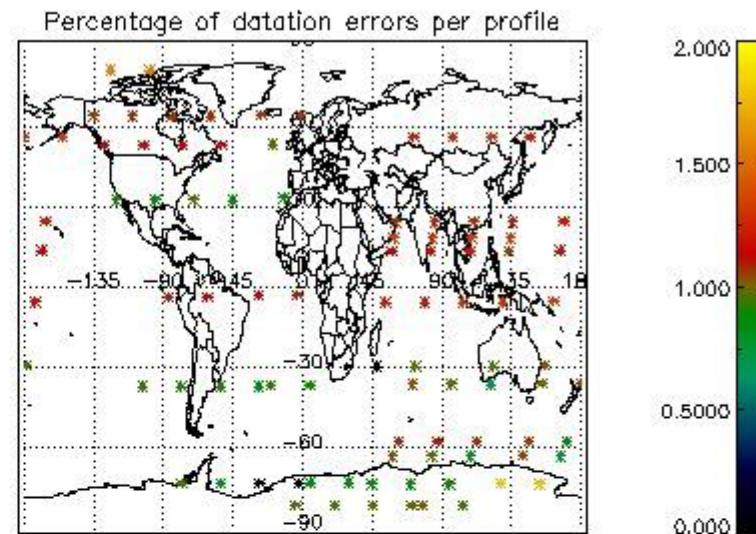
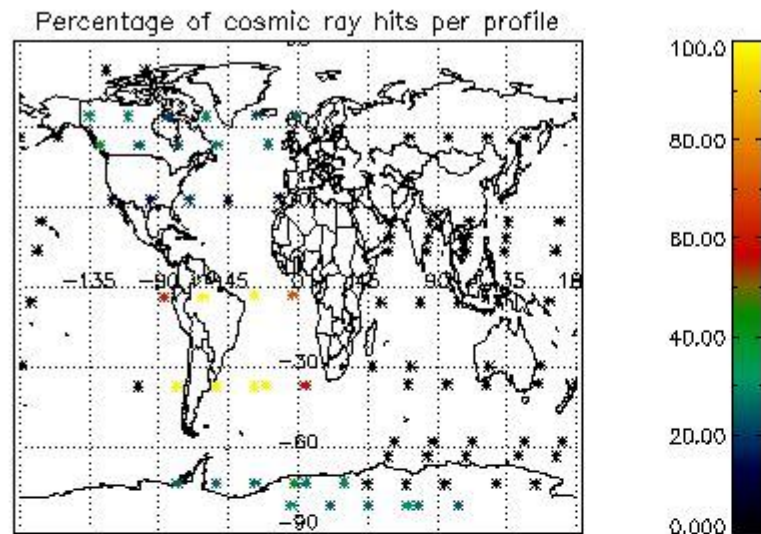
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	27.9570 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



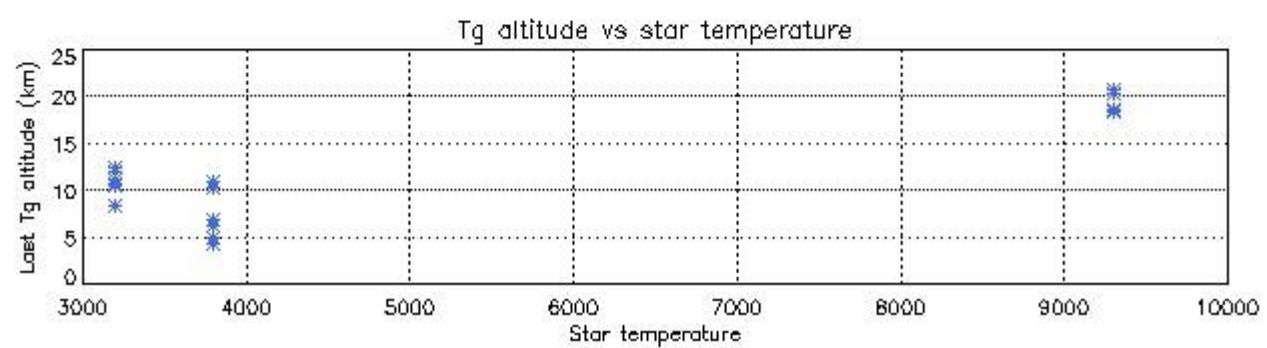
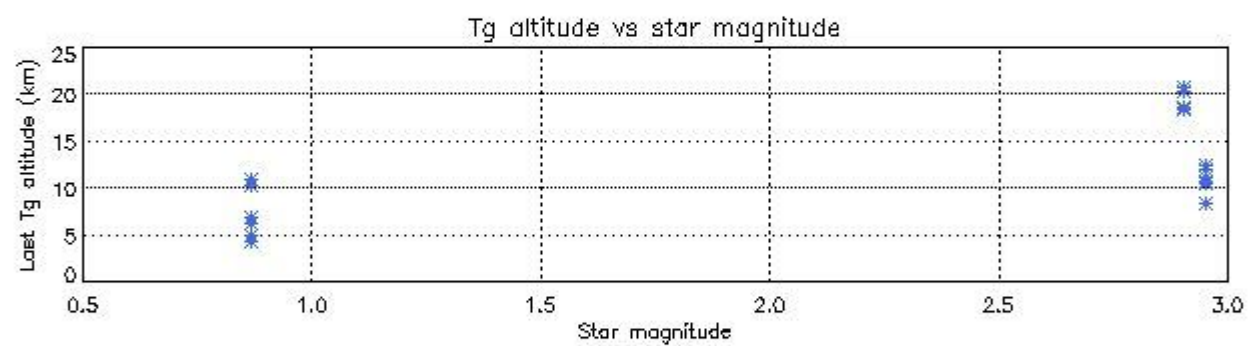
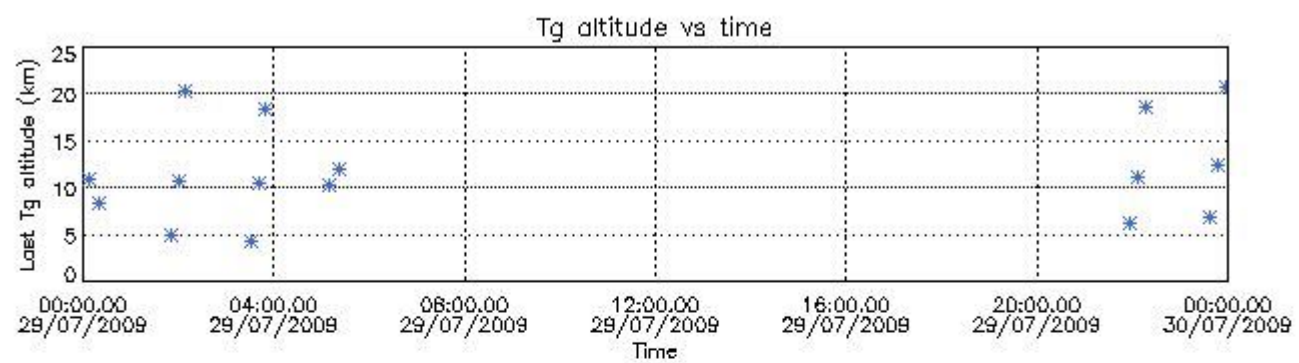
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	11.658	19.245	NaN
St. deviation:	5.2932	4.7781	NaN
Maximum:	20.729	27.517	NaN
Minimum:	4.2413	2.9195	NaN
Number of data:	16.000	51.000	NaN

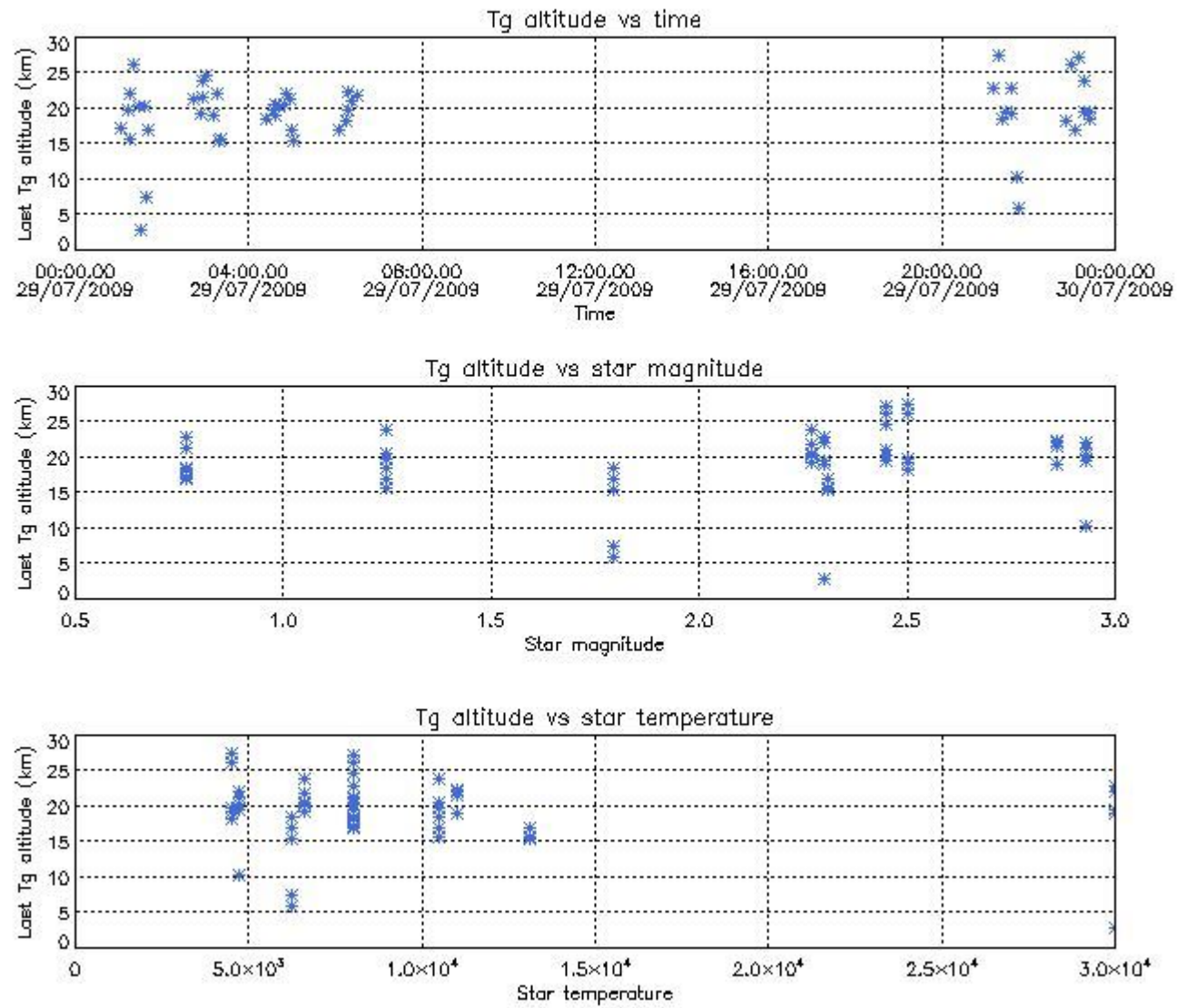
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

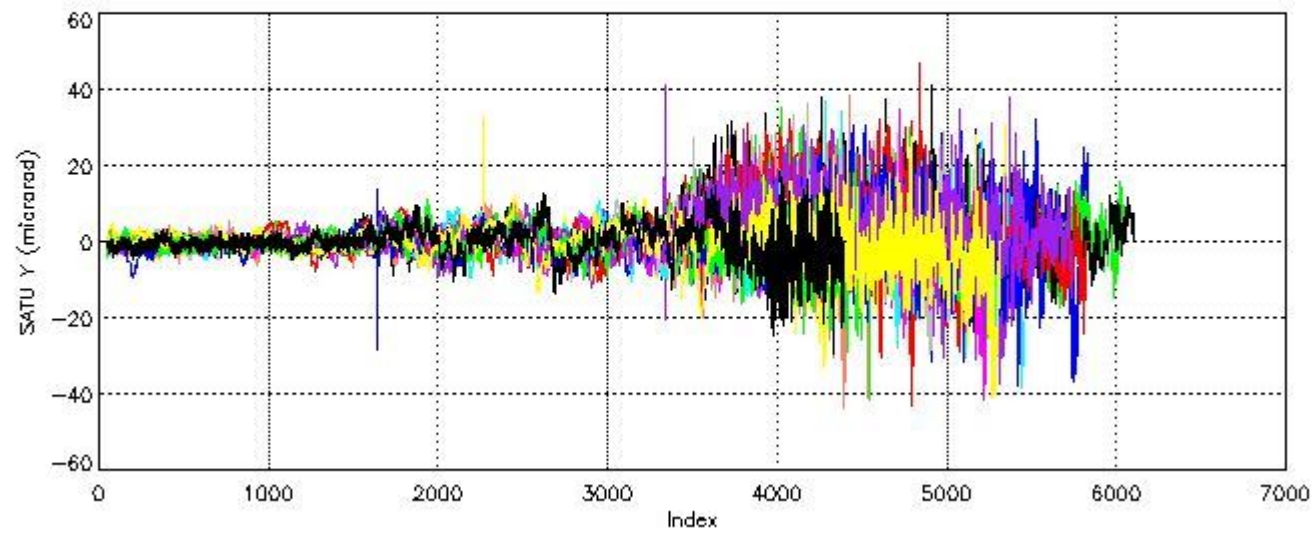
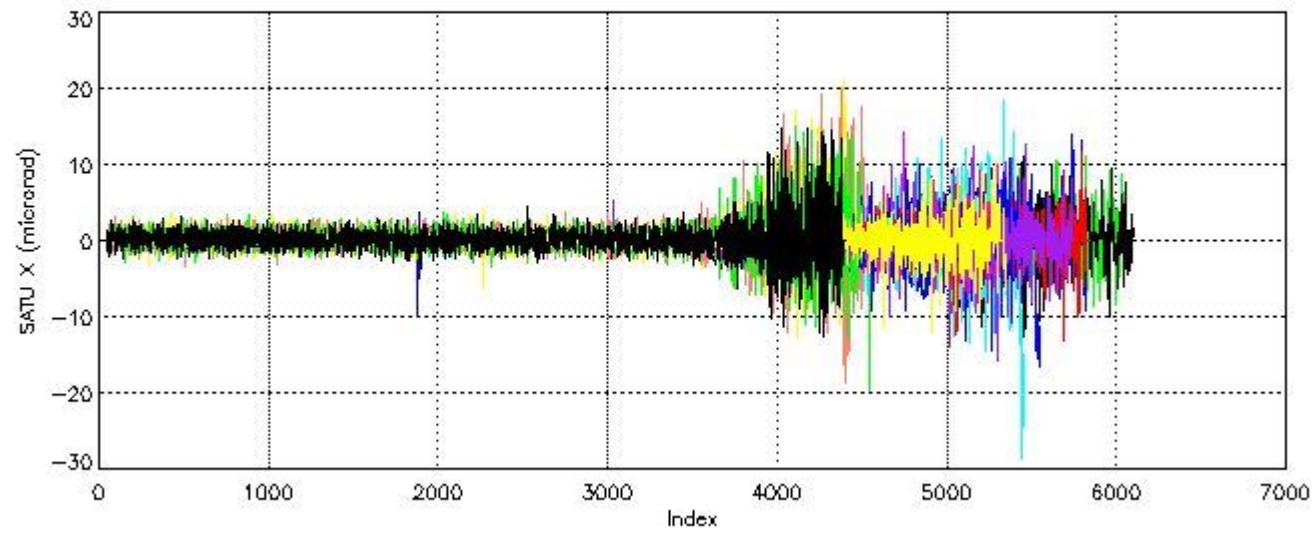


7. Star Acquisition and Tracking Unit (SATU)

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:	0.23242	-0.53834	0.26342	-0.51046
St. deviation:	0.41174	1.1731	0.67244	1.2487
Maximum:	3.6000	5.3000	5.3000	6.8000
Minimum:	-3.3000	-9.5000	-5.4000	-8.8000

Number of data:	16950.	16950.	53250.	53250.
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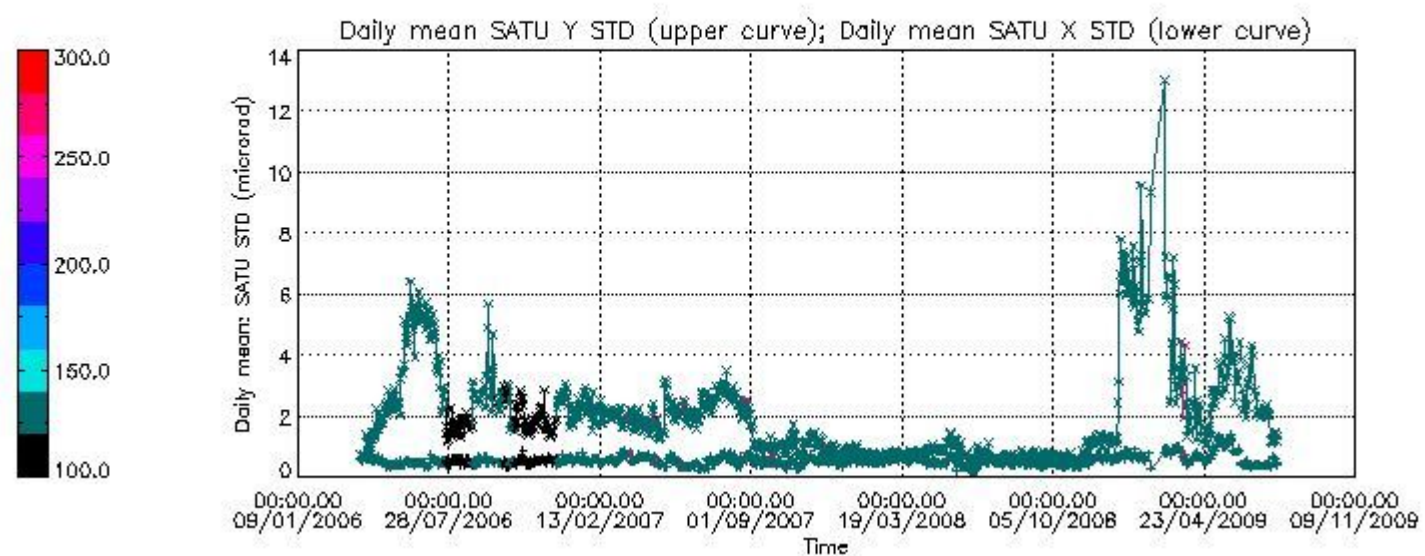
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

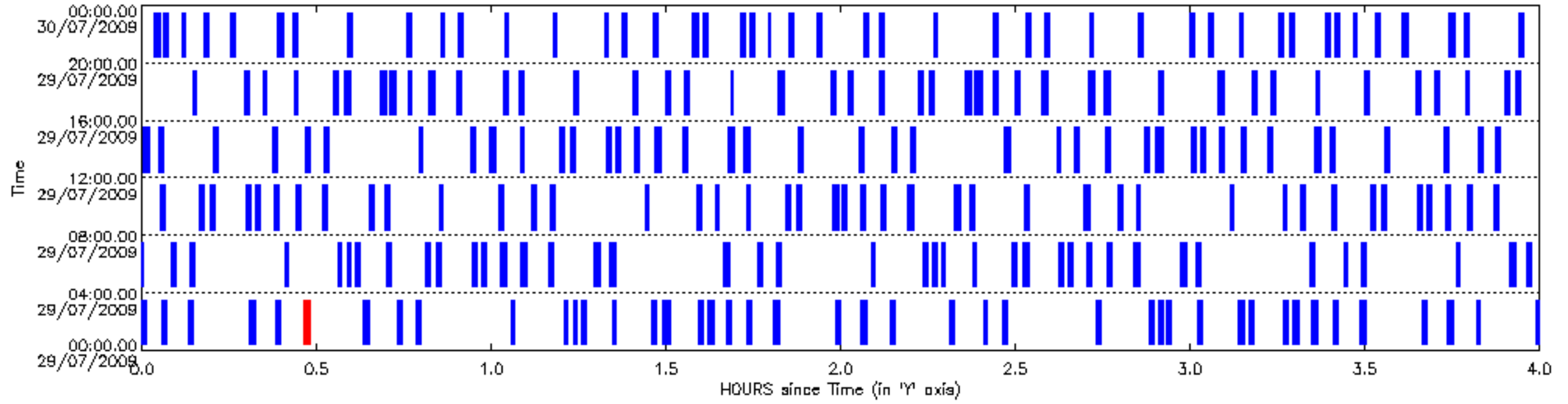
Lower curve: STD of SATU X axis

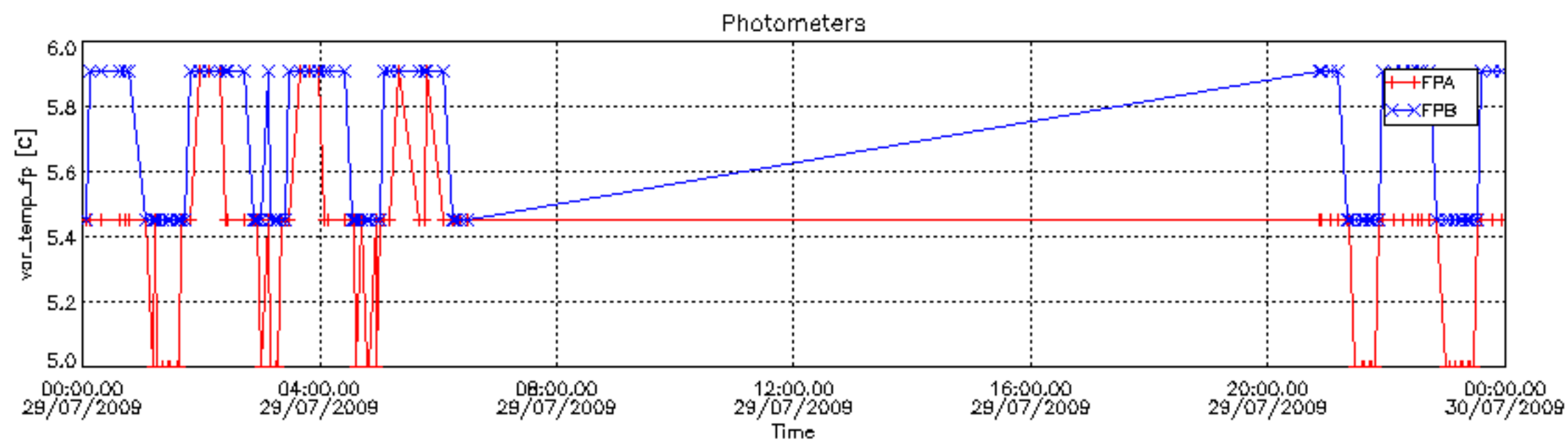
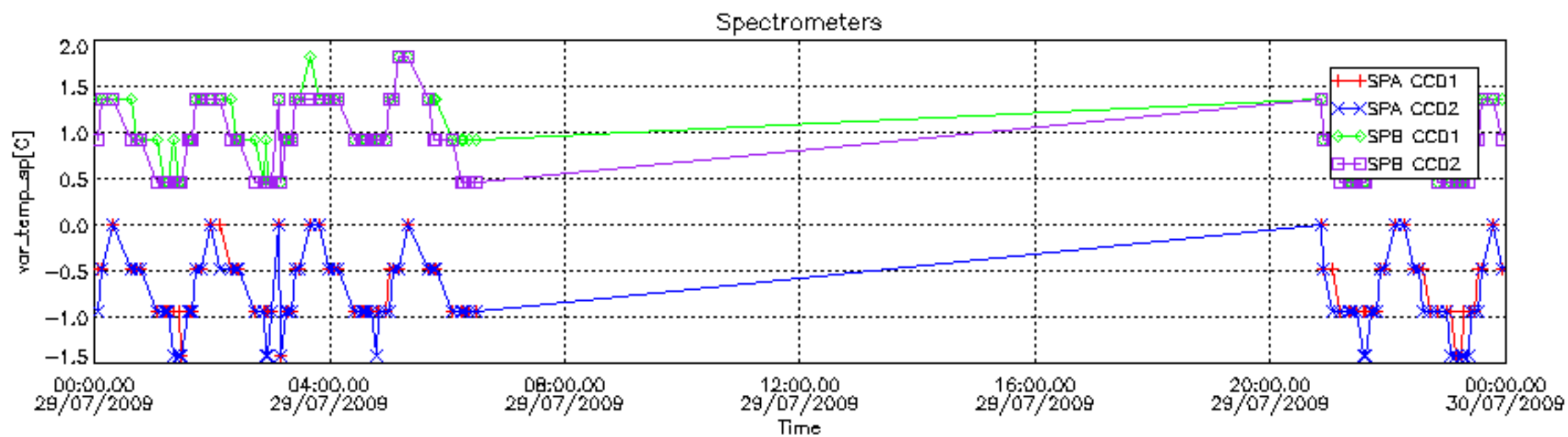


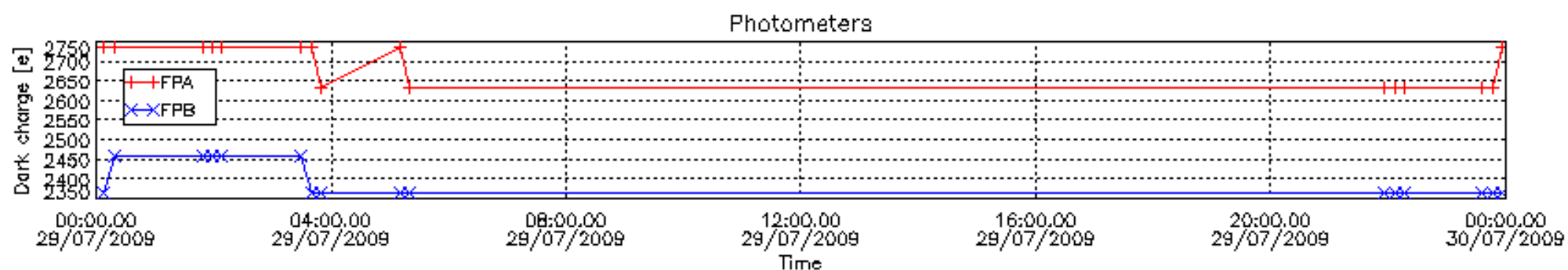
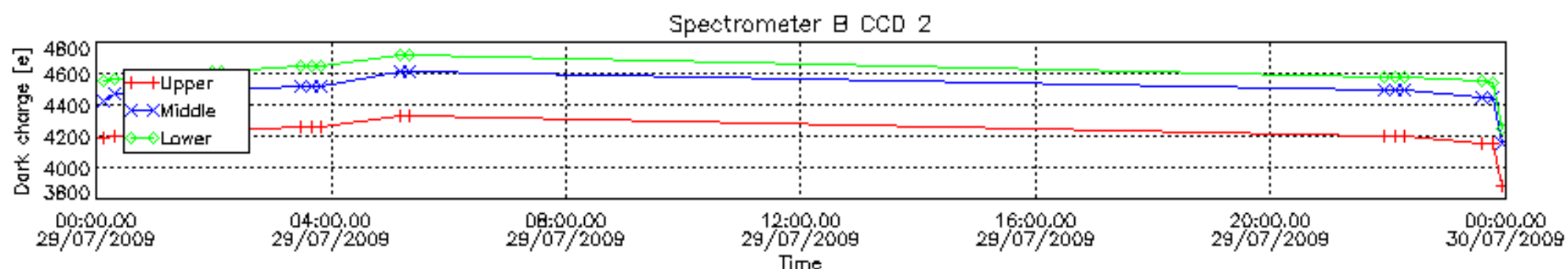
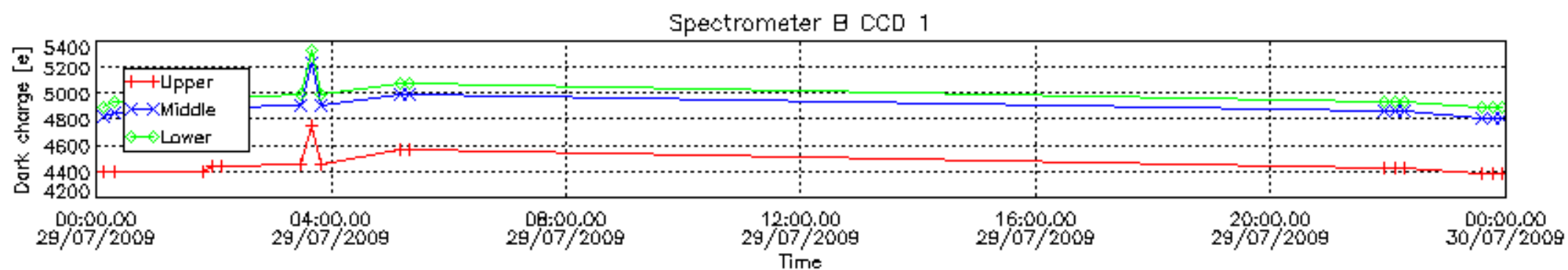
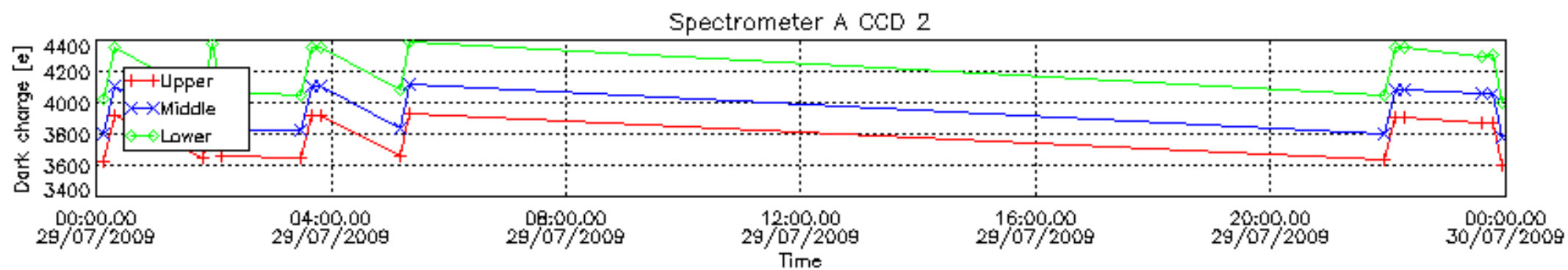
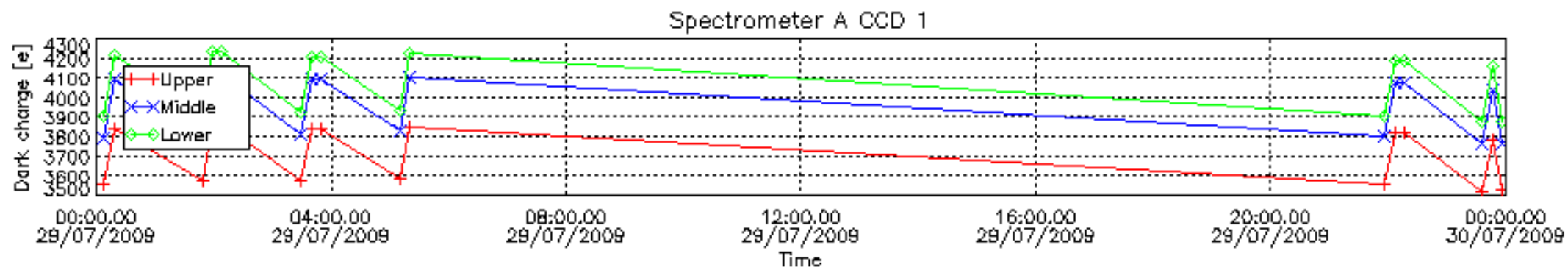
8. Auxiliary Data Files used for the production reported in section 2.4

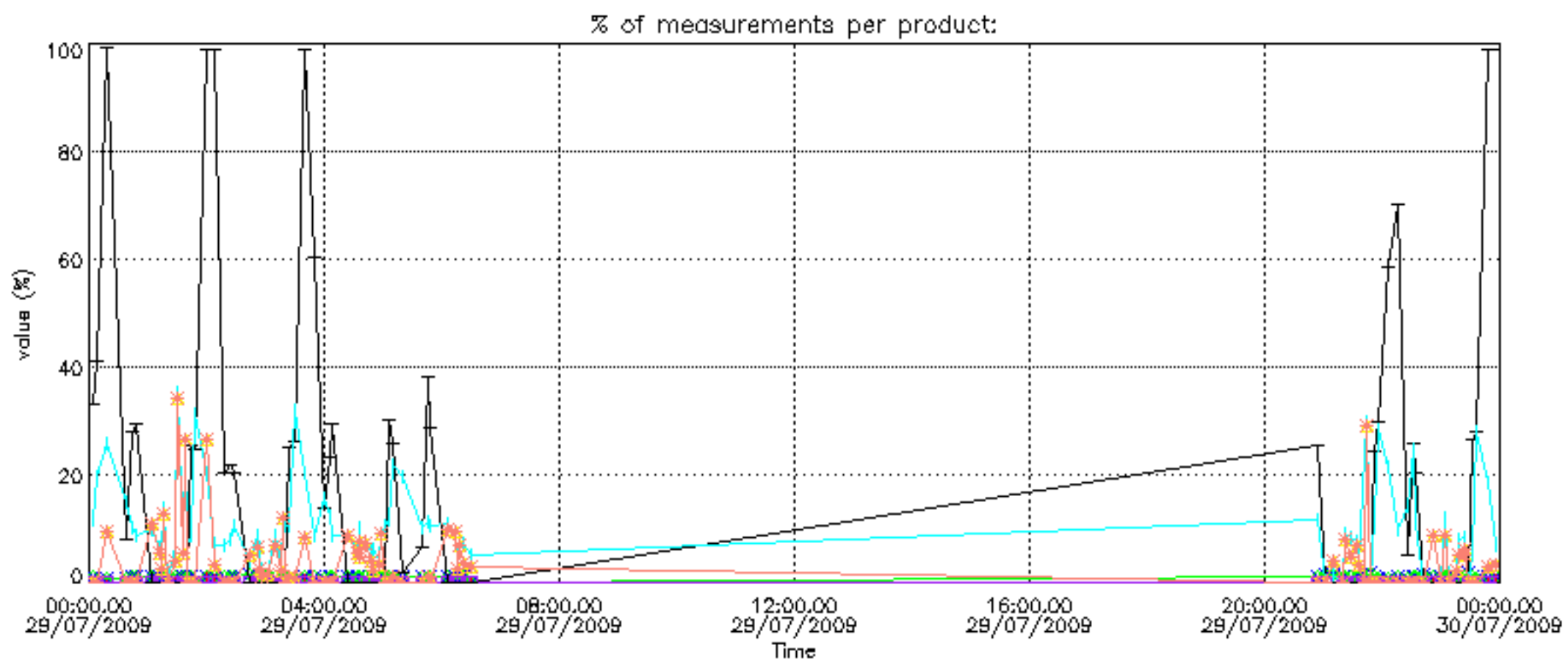
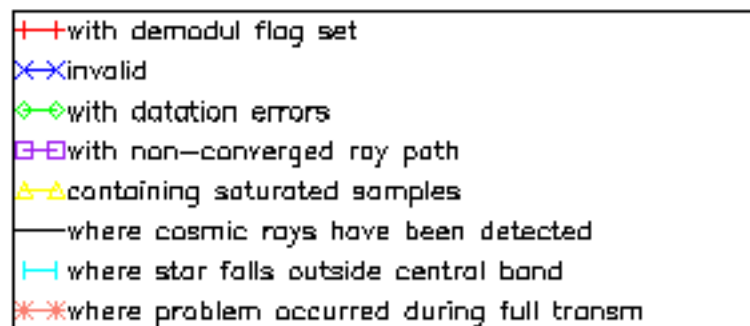
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	29-JUL-2009 00:03:16
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090724_083809_20090721_000000_20100101_000000	1	29-JUL-2009 00:03:16
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	29-JUL-2009 00:03:16
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	29-JUL-2009 00:03:16
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	29-JUL-2009 00:03:16
ECMWF_FILE	AUX_ECF_AXNECM20090728_074111_20090728_210000_20090729_090000	1	29-JUL-2009 00:03:16
ECMWF_FILE	AUX_ECF_AXNECM20090728_183105_20090729_030000_20090729_150000	29	29-JUL-2009 03:08:06
ECMWF_FILE	AUX_ECF_AXNECM20090729_064111_20090729_150000_20090730_030000	63	29-JUL-2009 20:51:11
ECMWF_FILE	AUX_ECF_AXNECM20090729_064112_20090729_210000_20090730_090000	77	29-JUL-2009 22:06:28
OPTIONAL_ECMWF_FILE	MISSING	1	29-JUL-2009 00:03:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090728_204500_000060572081_00114_38745_8443.N1	1	29-JUL-2009 00:03:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090728_223115_000057382081_00115_38746_8444.N1	3	29-JUL-2009 00:18:30
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090729_001212_000057382081_00116_38747_8445.N1	19	29-JUL-2009 01:59:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090729_015309_000041442081_00117_38748_8446.N1	29	29-JUL-2009 03:08:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090729_030732_000057382081_00118_38749_8447.N1	47	29-JUL-2009 04:50:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090729_205010_000038252081_00129_38760_8449.N1	63	29-JUL-2009 20:51:11
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090729_215914_000060572081_00129_38760_8450.N1	94	29-JUL-2009 23:47:05

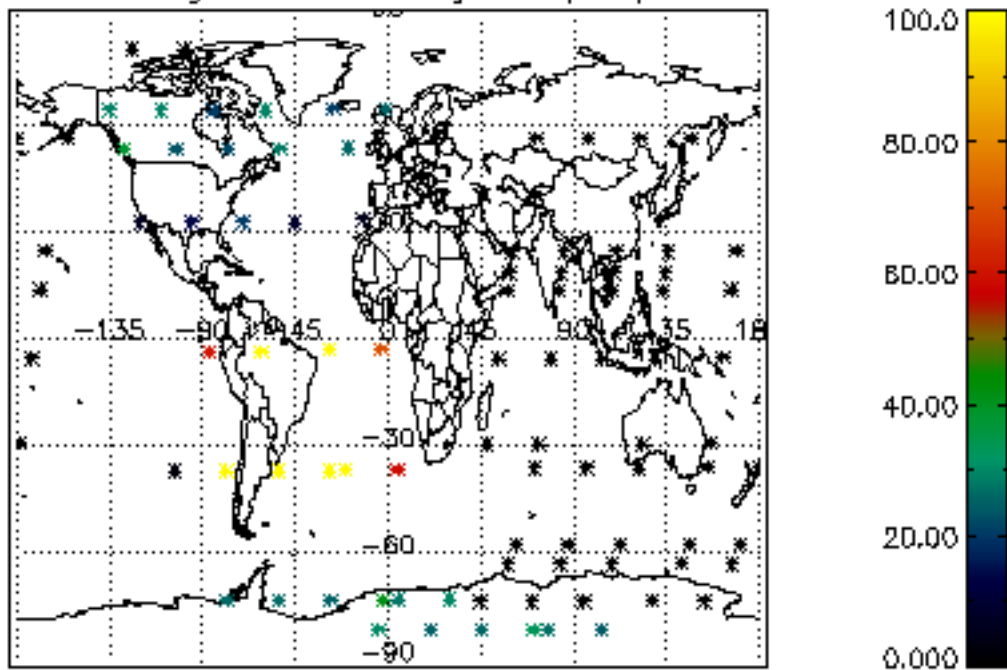




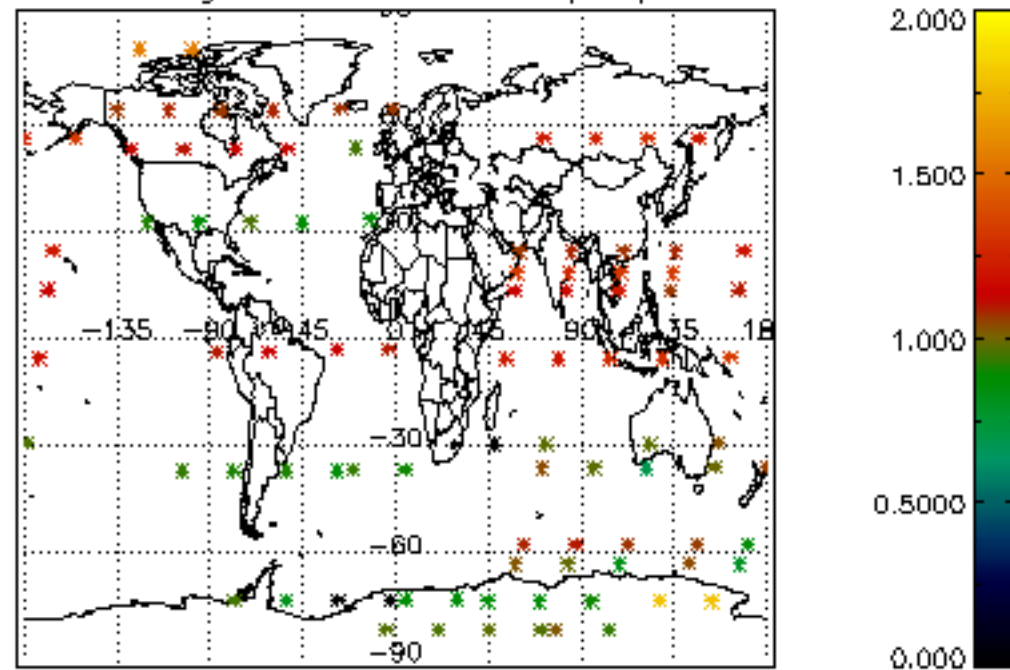




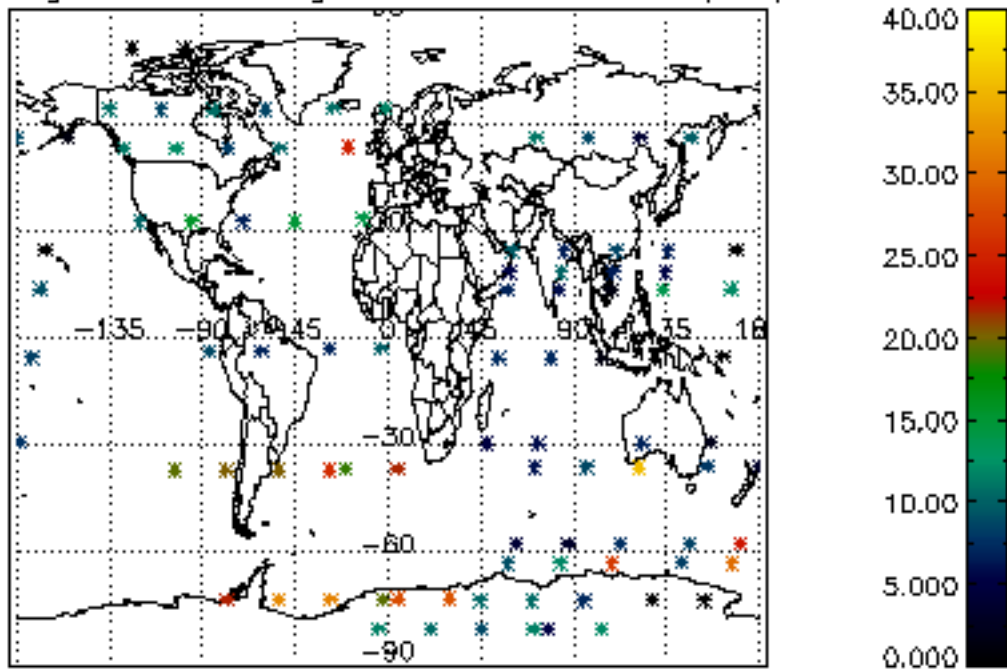
Percentage of cosmic ray hits per profile



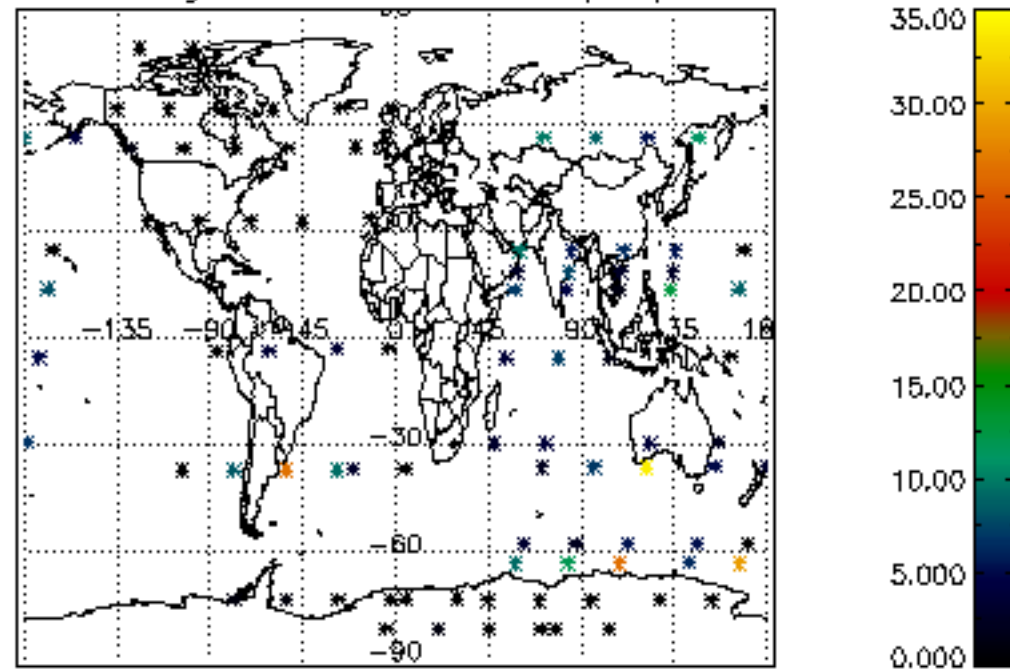
Percentage of datation errors per profile



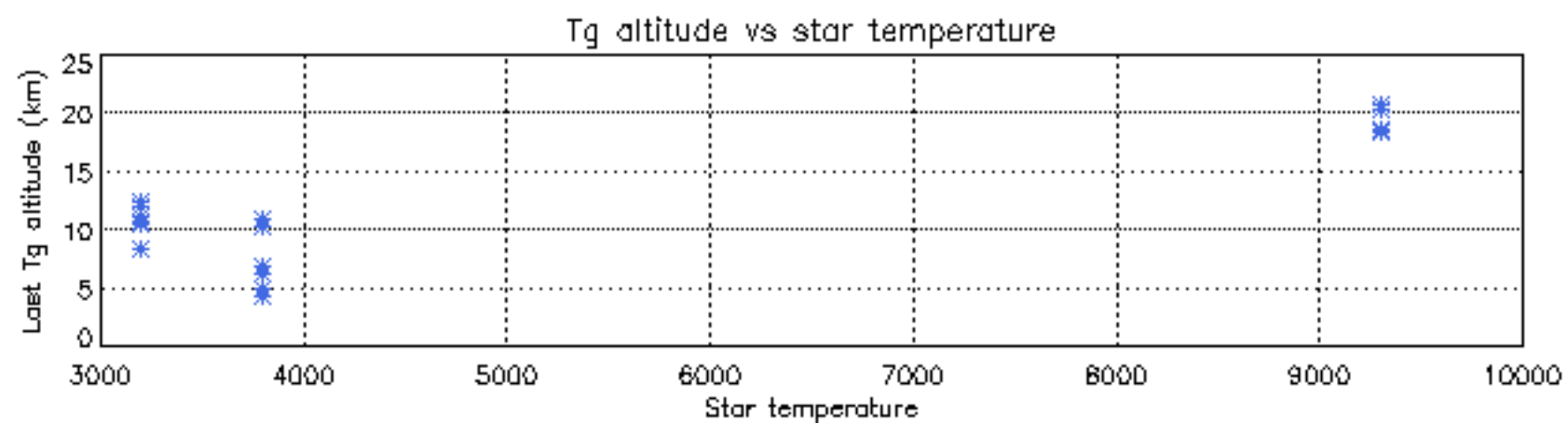
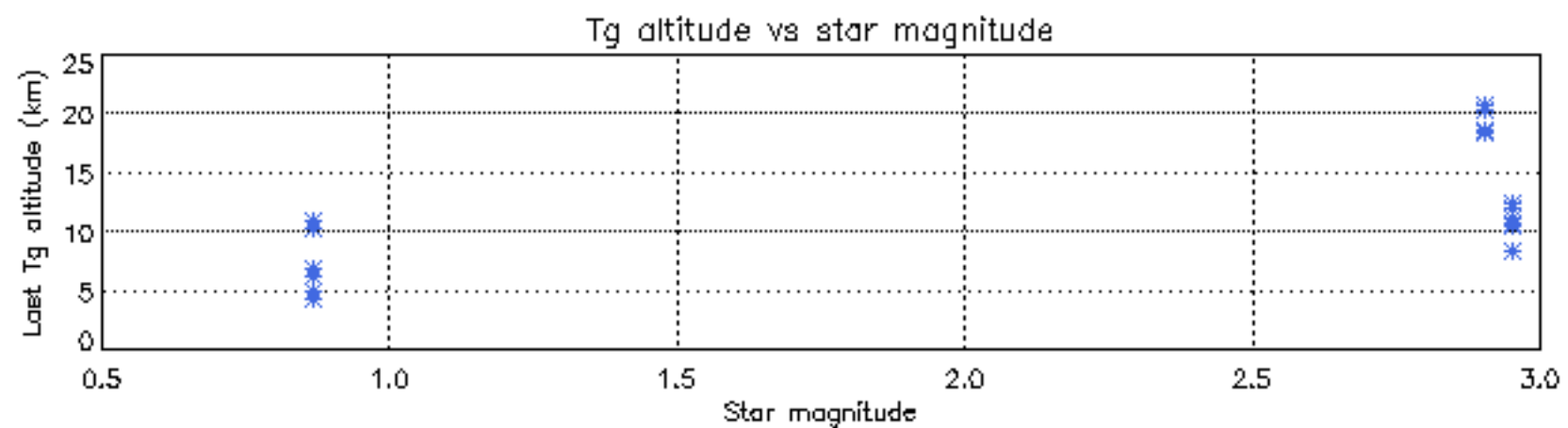
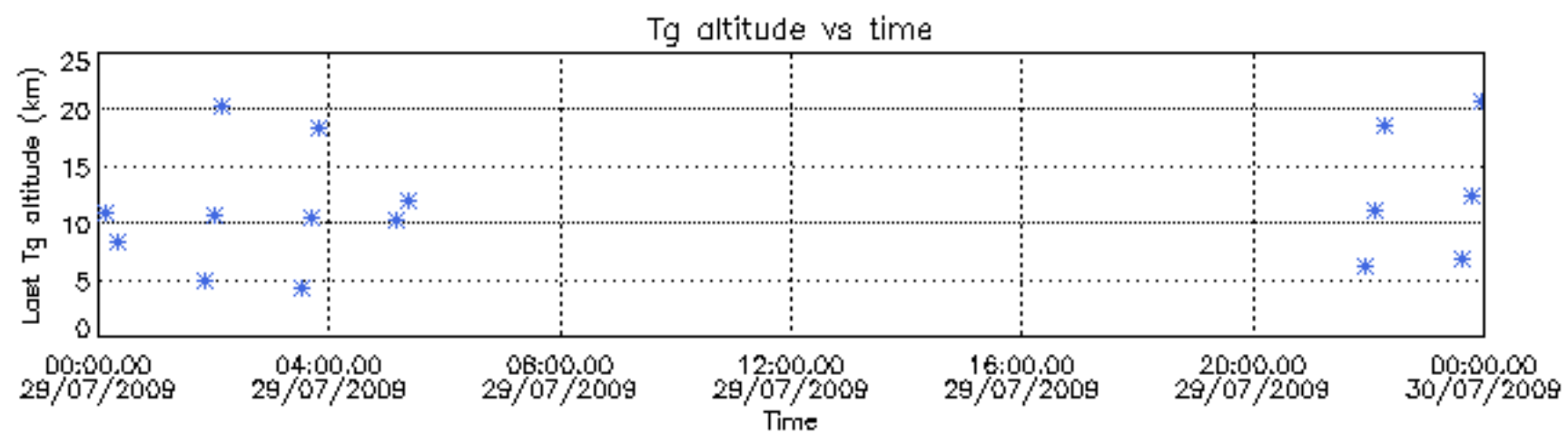
Percentage of star falling outside central band per profile



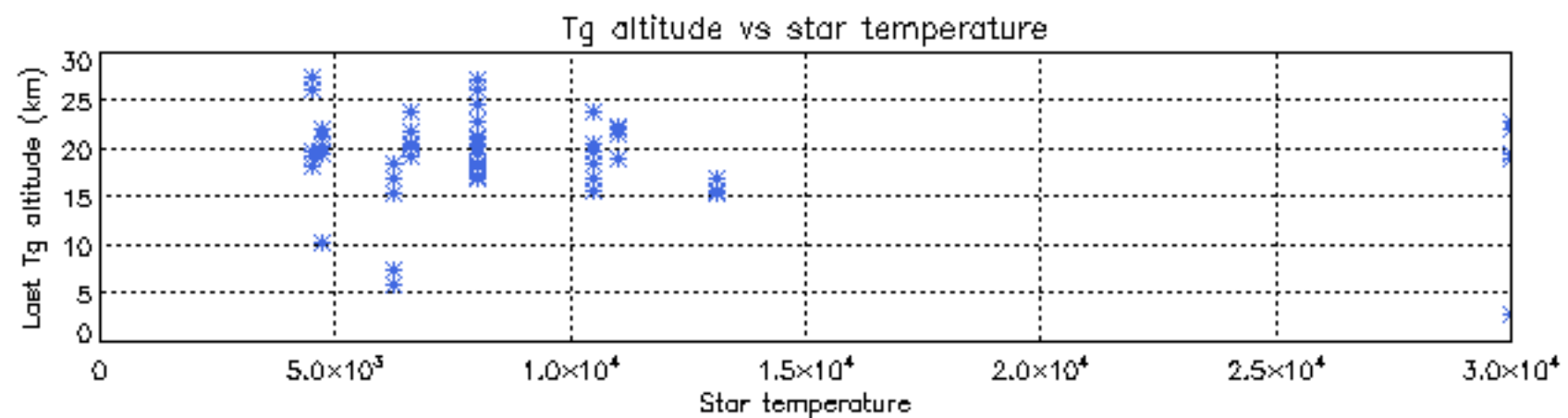
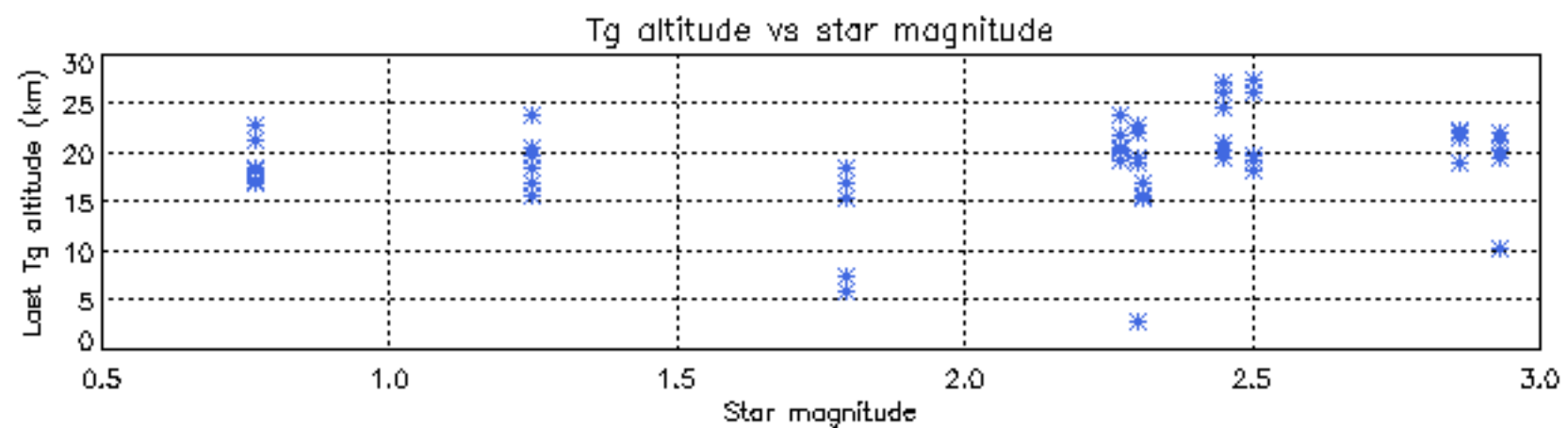
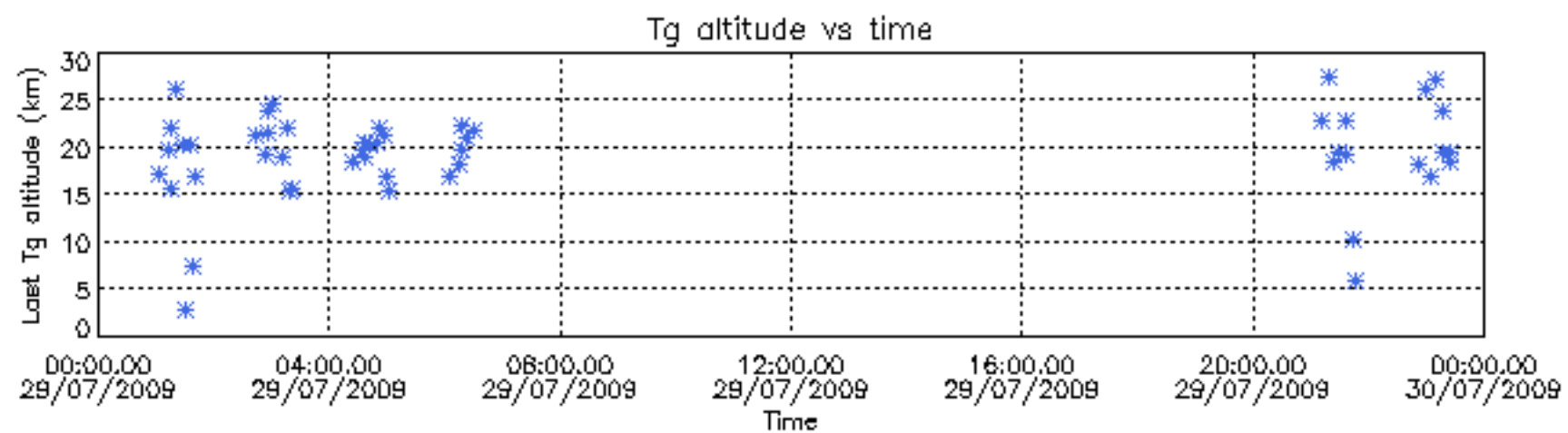
Percentage of saturation errors per profile

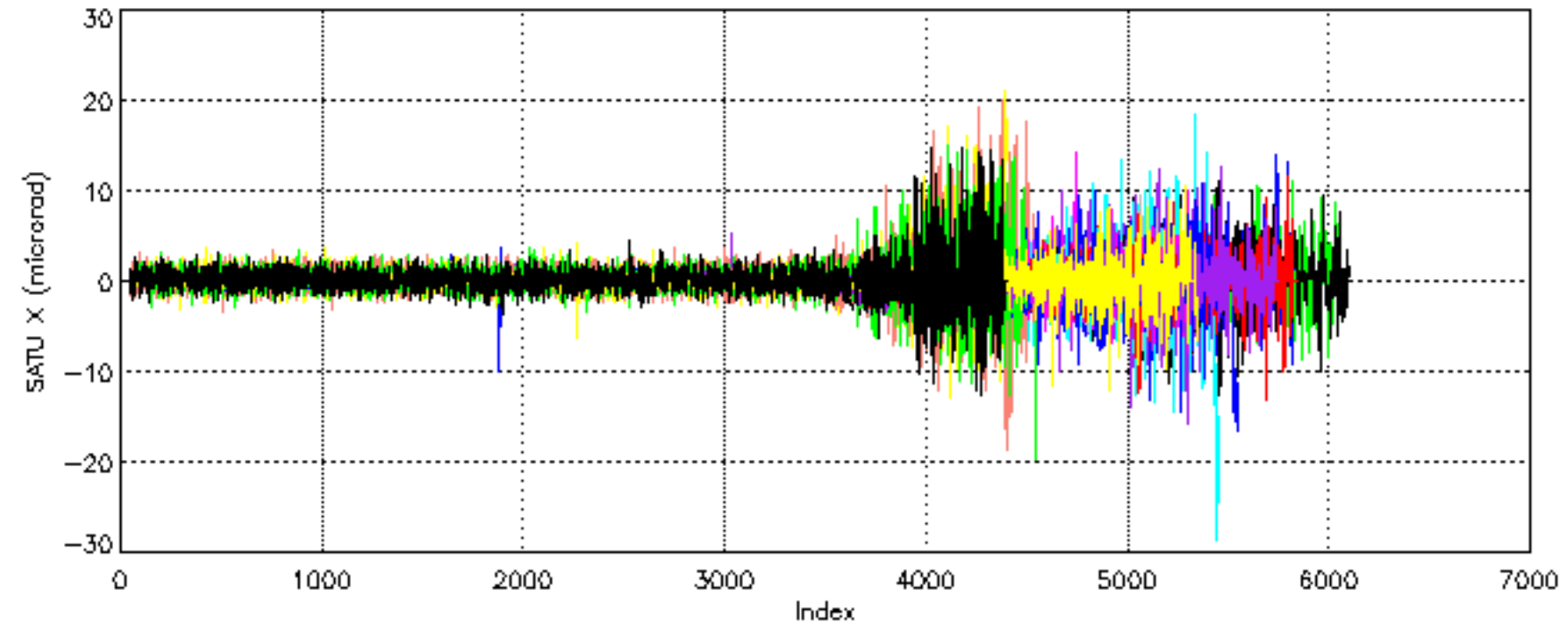


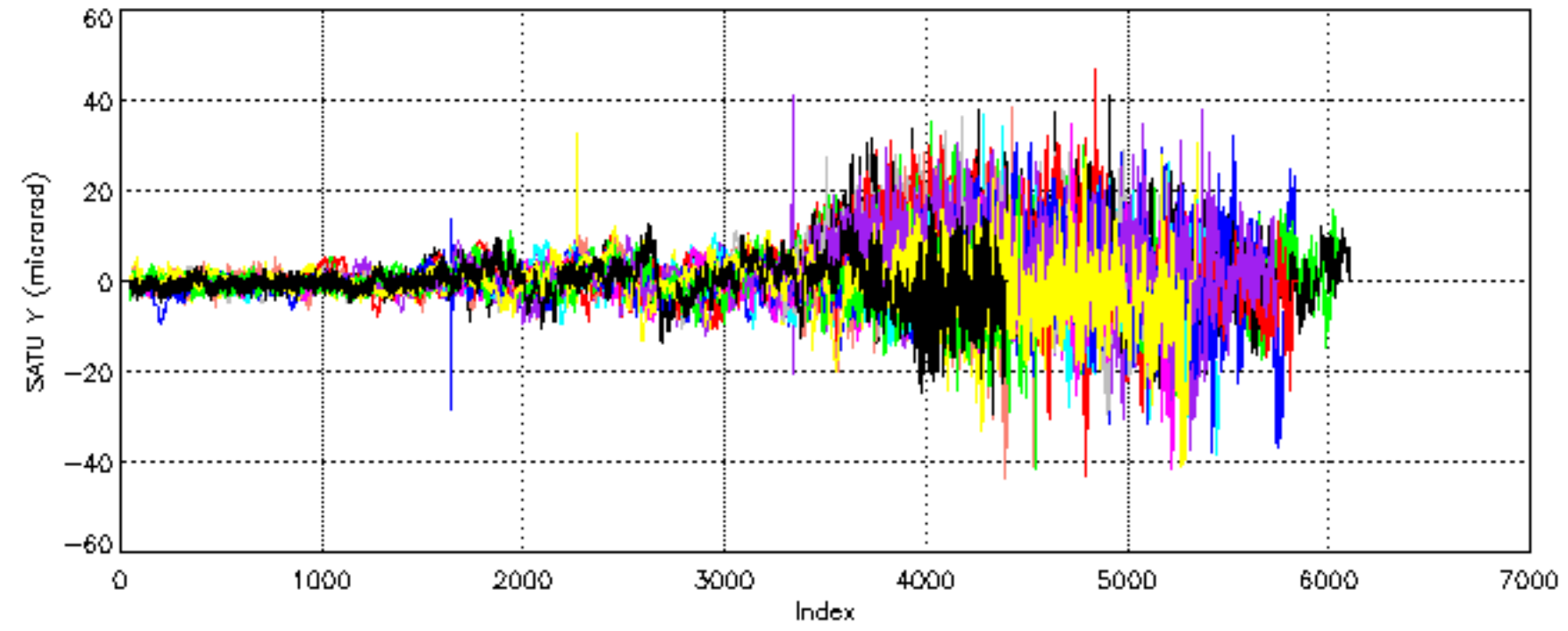
Tangent altitude at which the star is lost

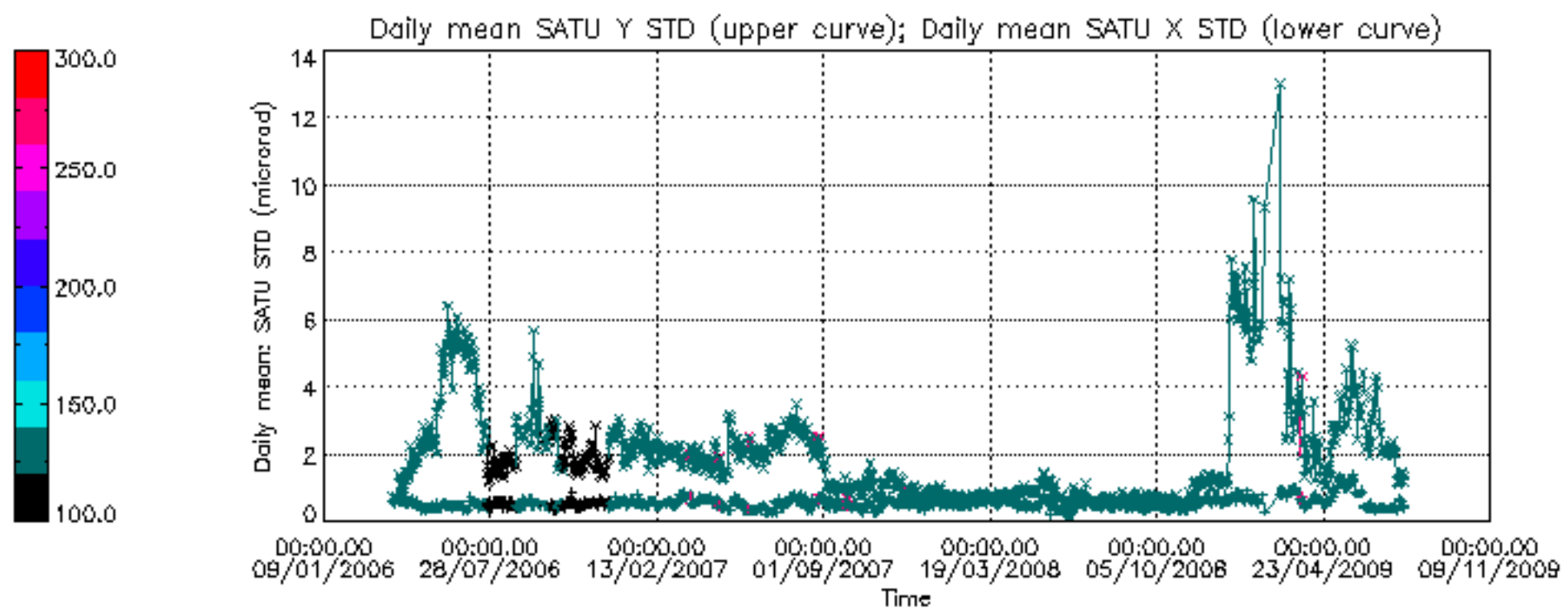


Tangent altitude at which the star is lost









```
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090702_010909_000044272080_00231_38361_8080.N1
1; -520.0; 02-JUL-2009 01:09:09; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38361
2; 113.5; 02-JUL-2009 01:19:42; Dark ; 49.5; 84; Alp Phe ; 2.40; 4500;occ; 99; 0;38362
3; 501.4; 02-JUL-2009 01:26:10; Dark ; 62.5; 63; Bet Gru ; 2.15; 2800;occ; 125; 0;38362
4; 616.8; 02-JUL-2009 01:28:06; Dark ; 59.0; 31; Alp Gru ; 1.73; 15200;occ; 118; 0;38362
5; 792.6; 02-JUL-2009 01:31:01; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38362
6; 1483.7; 02-JUL-2009 01:42:33; Bright; 45.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 91; 0;38362
7; 2224.2; 02-JUL-2009 01:54:53; Bright; 44.5; 168; 17Zet Aql ; 2.99; 11000;occ; 89; 0;38362
8; 2644.5; 02-JUL-2009 02:01:53; Bright; 47.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 94; 0;38362
9; 2909.6; 02-JUL-2009 02:06:18; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;38362
10; 3333.8; 02-JUL-2009 02:13:23; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38362
11; 3777.3; 02-JUL-2009 02:20:46; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;38362
12; 3872.7; 02-JUL-2009 02:22:22; Bright; 35.0; 110; 37Del Cas ; 2.68; 8900;occ; 70; 0;38362
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1; -532.5; 01-JUL-2009 01:40:33; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38347
2; 99.4; 01-JUL-2009 01:51:05; Dark ; 48.0; 84; Alp Phe ; 2.40; 4500;occ; 96; 0;38348
3; 488.0; 01-JUL-2009 01:57:34; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;38348
4; 604.2; 01-JUL-2009 01:59:30; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 0;38348
5; 777.8; 01-JUL-2009 02:02:24; Dark ; 57.0; 172; Gam Gru ; 3.00; 13100;occ; 114; 0;38348
6; 1481.2; 01-JUL-2009 02:14:07; Bright; 43.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 87; 0;38348
7; 2231.3; 01-JUL-2009 02:26:37; Bright; 45.5; 168; 17Zet Aql ; 2.99; 11000;occ; 91; 0;38348
8; 2651.1; 01-JUL-2009 02:33:37; Bright; 47.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 95; 0;38348
9; 2921.8; 01-JUL-2009 02:38:08; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;38348
10; 3343.1; 01-JUL-2009 02:45:09; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;38348
11; 3784.6; 01-JUL-2009 02:52:31; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;38348
12; 3876.9; 01-JUL-2009 02:54:03; Bright; 33.5; 110; 37Del Cas ; 2.68; 8900;occ; 67; 0;38348
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1; -2159.1; 01-JUL-2009 02:54:03; Bright; 34.0; 110; 37Del Cas ; 2.68; 8900;occ; 68; 0;38348
2; -1769.2; 01-JUL-2009 03:00:33; Bright; 34.5; 73; 57Gam1And ; 2.26; 13100;occ; 69; 0;38348
3; -1610.9; 01-JUL-2009 03:03:11; Dark ; 35.0; 173; 4Bet Tri ; 3.00; 8900;occ; 70; 0;38348
4; -1355.5; 01-JUL-2009 03:07:26; Dark ; 39.5; 50; 13Alp Ari ; 2.01; 4250;occ; 79; 0;38348
5; -531.6; 01-JUL-2009 03:21:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38348
6; 100.2; 01-JUL-2009 03:31:42; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;38349
7; 489.1; 01-JUL-2009 03:38:11; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38349
8; 605.3; 01-JUL-2009 03:40:07; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;38349
9; 778.8; 01-JUL-2009 03:43:01; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38349
10; 1481.3; 01-JUL-2009 03:54:43; Bright; 44.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 88; 0;38349
11; 2230.9; 01-JUL-2009 04:07:13; Bright; 51.0; 168; 17Zet Aql ; 2.99; 11000;occ; 102; 0;38349
12; 2650.9; 01-JUL-2009 04:14:13; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;38349
13; 2920.9; 01-JUL-2009 04:18:43; Bright; 48.5; 144; 18Del Cyg ; 2.86; 11000;occ; 97; 0;38349
14; 3342.2; 01-JUL-2009 04:25:44; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;38349
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1; -2251.9; 01-JUL-2009 04:33:06; Bright; 40.5; 74; 11Bet Cas ; 2.27; 6600;occ; 81; 0;38349
2; -2158.9; 01-JUL-2009 04:34:39; Bright; 35.5; 110; 37Del Cas ; 2.68; 8900;occ; 71; 0;38349
3; -1769.3; 01-JUL-2009 04:41:09; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;38349
4; -1610.7; 01-JUL-2009 04:43:47; Dark ; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;38349
5; -1355.2; 01-JUL-2009 04:48:03; Dark ; 39.5; 50; 13Alp Ari ; 2.01; 4250;occ; 79; 0;38349
6; -530.7; 01-JUL-2009 05:01:47; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38349
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8; 505.5; 02-JUL-2009 08:08:38; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;38366
9; 620.4; 02-JUL-2009 08:10:33; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;38366
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3; 2906.4; 02-JUL-2009 08:48:39; Bright; 49.0; 144; 18Del Cyg ; 2.86; 11000;occ; 98; 0;38366
4; 3330.9; 02-JUL-2009 08:55:44; Bright; 46.0; 89; 5Alp Cep ; 2.45; 8000;occ; 92; 0;38366
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6; 3871.6; 02-JUL-2009 09:04:44; Bright; 36.0; 110; 37Del Cas ; 2.68; 8900;occ; 72; 0;38366
7; 4265.5; 02-JUL-2009 09:11:18; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;38366
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13; 6657.1; 02-JUL-2009 09:51:10; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 0;38366
14; 6833.7; 02-JUL-2009 09:54:06; Dark ; 58.0; 172; Gam Gru ; 3.00; 13100;occ; 116; 0;38366
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4; 3330.2; 02-JUL-2009 10:36:19; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;38367
5; 3774.3; 02-JUL-2009 10:43:43; Bright; 42.0; 74; 11Bet Cas ; 2.27; 6600;occ; 84; 0;38367
6; 3871.1; 02-JUL-2009 10:45:20; Bright; 36.5; 110; 37Del Cas ; 2.68; 8900;occ; 73; 0;38367
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8; 4426.7; 02-JUL-2009 10:54:35; Dark ; 37.0; 173; 4Bet Tri ; 3.00; 8900;occ; 74; 0;38367
9; 4687.0; 02-JUL-2009 10:58:56; Dark ; 41.0; 50; 13Alp Ari ; 2.01; 4250;occ; 82; 0;38367
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13; 6658.0; 02-JUL-2009 11:31:47; Dark ; 60.0; 31; Alp Gru ; 1.73; 15200;occ; 120; 0;38367
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3; 2904.8; 02-JUL-2009 12:09:49; Bright; 49.0; 144; 18Del Cyg ; 2.86; 11000;occ; 98; 0;38368
4; 3329.7; 02-JUL-2009 12:16:54; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38368
5; 3773.7; 02-JUL-2009 12:24:18; Bright; 41.5; 74; 11Bet Cas ; 2.27; 6600;occ; 83; 0;38368
6; 3871.0; 02-JUL-2009 12:25:56; Bright; 36.0; 110; 37Del Cas ; 2.68; 8900;occ; 72; 0;38368
7; 4265.3; 02-JUL-2009 12:32:30; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;38368
8; 4426.4; 02-JUL-2009 12:35:11; Dark ; 37.0; 173; 4Bet Tri ; 3.00; 8900;occ; 74; 0;38368
9; 4687.2; 02-JUL-2009 12:39:32; Dark ; 40.0; 50; 13Alp Ari ; 2.01; 4250;occ; 80; 0;38368

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12; 6544.1; 02-JUL-2009 13:10:29; Dark ; 51.0; 63; Bet Gru ; 2.15; 2800;occ; 102; 0;38368
13; 6658.8; 02-JUL-2009 13:12:23; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38368
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 3; 2903.9; 02-JUL-2009 13:50:24; Bright; 50.0; 144; 18Del Cyg ; 2.86; 11000;occ; 100; 0;38369
 4; 3328.9; 02-JUL-2009 13:57:29; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38369
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 9; 4687.7; 02-JUL-2009 14:20:08; Dark ; 42.0; 50; 13Alp Ari ; 2.01; 4250;occ; 84; 0;38369
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11; 6158.1; 02-JUL-2009 14:44:38; Dark ; 53.0; 84; Alp Phe ; 2.40; 4500;occ; 106; 0;38369
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13; 6660.0; 02-JUL-2009 14:53:00; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38369
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 5; 807.2; 03-JUL-2009 00:59:39; Dark ; 56.5; 172; Gam Gru ; 3.00; 13100;occ; 113; 0;38376
 6; 1486.3; 03-JUL-2009 01:10:58; Bright; 48.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 96; 0;38376
 7; 2217.1; 03-JUL-2009 01:23:09; Bright; 45.5; 168; 17Zet Aql ; 2.99; 11000;occ; 91; 0;38376
 8; 2638.1; 03-JUL-2009 01:30:10; Bright; 47.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 94; 0;38376
 9; 2897.9; 03-JUL-2009 01:34:30; Bright; 44.5; 144; 18Del Cyg ; 2.86; 11000;occ; 89; 0;38376
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11; 3769.5; 03-JUL-2009 01:49:01; Bright; 44.0; 74; 11Bet Cas ; 2.27; 6600;occ; 88; 0;38376
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13; 4264.7; 03-JUL-2009 01:57:17; Bright; 37.0; 73; 57Gam1And ; 2.26; 13100;occ; 74; 0;38376
14; 4426.9; 03-JUL-2009 01:59:59; Dark ; 37.5; 173; 4Bet Tri ; 3.00; 8900;occ; 75; 0;38376
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 5; 808.2; 03-JUL-2009 02:40:16; Dark ; 58.0; 172; Gam Gru ; 3.00; 13100;occ; 116; 0;38377
 6; 1486.6; 03-JUL-2009 02:51:34; Bright; 43.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 86; 0;38377
 7; 2216.4; 03-JUL-2009 03:03:44; Bright; 46.5; 168; 17Zet Aql ; 2.99; 11000;occ; 93; 0;38377
 8; 2637.8; 03-JUL-2009 03:10:45; Bright; 46.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 92; 0;38377
 9; 2897.3; 03-JUL-2009 03:15:05; Bright; 48.5; 144; 18Del Cyg ; 2.86; 11000;occ; 97; 0;38377
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 3;-1771.3; 03-JUL-2009 03:37:52; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;38377
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 8; 516.9; 03-JUL-2009 04:16:01; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;38378
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10; 809.1; 03-JUL-2009 04:20:53; Dark ; 57.5; 172; Gam Gru ; 3.00; 13100;occ; 115; 0;38378
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13; 2637.3; 03-JUL-2009 04:51:21; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;38378
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4; 811.0; 03-JUL-2009 07:42:07; Dark ; 58.0; 172; Gam Gru ; 3.00; 13100;occ; 116; 0;38380
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 3; 2870.6; 05-JUL-2009 12:15:00; Bright; 49.5; 144; 18Del Cyg ; 2.86; 11000;occ; 99; 0;38411
 4; 3301.0; 05-JUL-2009 12:22:10; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;38411
 5; 3750.3; 05-JUL-2009 12:29:39; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;38411
 6; 3857.2; 05-JUL-2009 12:31:26; Bright; 37.5; 110; 37Del Cas ; 2.68; 8900;occ; 75; 0;38411
 7; 4261.8; 05-JUL-2009 12:38:11; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;38411
 8; 4429.4; 05-JUL-2009 12:40:59; Dark ; 39.5; 173; 4Bet Tri ; 3.00; 8900;occ; 79; 0;38411
 9; 4703.2; 05-JUL-2009 12:45:32; Dark ; 43.5; 50; 13Alp Ari ; 2.01; 4250;occ; 87; 0;38411

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13; 6696.1; 05-JUL-2009 13:18:45; Dark ; 52.0; 31; Alp Gru ; 1.73; 15200;occ; 104; 0;38411
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 5; 3749.7; 05-JUL-2009 14:10:15; Bright; 42.5; 74; 11Bet Cas ; 2.27; 6600;occ; 85; 0;38412
 6; 3856.7; 05-JUL-2009 14:12:02; Bright; 39.0; 110; 37Del Cas ; 2.68; 8900;occ; 78; 0;38412
 7; 4261.5; 05-JUL-2009 14:18:47; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;38412
 8; 4429.6; 05-JUL-2009 14:21:35; Dark ; 40.0; 173; 4Bet Tri ; 3.00; 8900;occ; 80; 0;38412
 9; 4703.7; 05-JUL-2009 14:26:09; Dark ; 47.0; 50; 13Alp Ari ; 2.01; 4250;occ; 94; 0;38412
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13; 6697.0; 05-JUL-2009 14:59:22; Dark ; 52.5; 31; Alp Gru ; 1.73; 15200;occ; 105; 0;38412
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 8; 4261.4; 05-JUL-2009 15:59:22; Bright; 38.5; 73; 57Gam1And ; 2.26; 13100;occ; 77; 0;38413
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 7; 3855.9; 05-JUL-2009 19:13:49; Bright; 37.0; 110; 37Del Cas ; 2.68; 8900;occ; 74; 0;38415
 8; 4261.3; 05-JUL-2009 19:20:34; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;38415
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5; 849.6; 06-JUL-2009 01:06:06; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;38419
6; 2198.2; 06-JUL-2009 01:28:35; Bright; 45.5; 168; 17Zet Aql ; 2.99; 11000;occ; 91; 0;38419
7; 2621.0; 06-JUL-2009 01:35:38; Bright; 42.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 85; 0;38419
8; 2864.6; 06-JUL-2009 01:39:41; Bright; 46.0; 144; 18Del Cyg ; 2.86; 11000;occ; 92; 0;38419
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3; 556.5; 06-JUL-2009 02:41:49; Dark ; 63.5; 63; Bet Gru ; 2.15; 2800;occ; 127; 0;38420
4; 667.1; 06-JUL-2009 02:43:40; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 0;38420
5; 850.8; 06-JUL-2009 02:46:43; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;38420
6; 2197.9; 06-JUL-2009 03:09:10; Bright; 47.5; 168; 17Zet Aql ; 2.99; 11000;occ; 95; 0;38420
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8; 2864.0; 06-JUL-2009 03:20:16; Bright; 42.5; 144; 18Del Cyg ; 2.86; 11000;occ; 85; 0;38420
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3; -1775.2; 06-JUL-2009 03:43:33; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;38420
4; -1605.9; 06-JUL-2009 03:46:23; Dark ; 38.5; 173; 4Bet Tri ; 3.00; 8900;occ; 77; 0;38420
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8; 557.6; 06-JUL-2009 04:22:26; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38421
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4; 3288.8; 06-JUL-2009 20:13:21; Bright; 46.0; 89; 5Alp Cep ; 2.45; 8000;occ; 92; 0;38430
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6; 3850.5; 06-JUL-2009 20:22:42; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;38430
7; 4259.5; 06-JUL-2009 20:29:31; Bright; 40.0; 73; 57Gam1And ; 2.26; 13100;occ; 80; 0;38430
8; 4430.8; 06-JUL-2009 20:32:23; Dark ; 41.0; 173; 4Bet Tri ; 3.00; 8900;occ; 82; 0;38430
9; 4710.9; 06-JUL-2009 20:37:03; Dark ; 46.0; 50; 13Alp Ari ; 2.01; 4250;occ; 92; 0;38430
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8; 2855.9; 06-JUL-2009 21:46:44; Bright; 46.5; 144; 18Del Cyg ; 2.86; 11000;occ; 93; 0;38431
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6; 2193.2; 06-JUL-2009 23:16:17; Bright; 44.0; 168; 17Zet Aql ; 2.99; 11000;occ; 88; 0;38432
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9; 4708.7; 06-JUL-2009 10:33:25; Dark ; 45.0; 50; 13Alp Ari ; 2.01; 4250;occ; 90; 0;38424
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 7; 192.5; 07-JUL-2009 05:25:20; Dark ; 51.5; 84; Alp Phe ; 2.40; 4500;occ; 103; 0;38436
 8; 571.2; 07-JUL-2009 05:31:39; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;38436
 9; 680.6; 07-JUL-2009 05:33:28; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38436
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 3; 2845.9; 07-JUL-2009 21:14:57; Bright; 47.0; 144; 18Del Cyg ; 2.86; 11000;occ; 94; 0;38445
 4; 3278.9; 07-JUL-2009 21:22:10; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38445
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 8; 4431.7; 07-JUL-2009 21:41:22; Dark ; 45.0; 173; 4Bet Tri ; 3.00; 8900;occ; 90; 0;38445
 9; 4717.4; 07-JUL-2009 21:46:08; Dark ; 39.0; 50; 13Alp Ari ; 2.01; 4250;occ; 78; 0;38445
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 6; 2188.5; 07-JUL-2009 22:44:35; Bright; 44.5; 168; 17Zet Aql ; 2.99; 11000;occ; 89; 0;38446
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 13; 4717.8; 07-JUL-2009 23:26:44; Dark ; 30.0; 50; 13Alp Ari ; 2.01; 4250;occ; 60; 0;38446
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 3; 581.4; 07-JUL-2009 23:58:24; Dark ; 62.5; 63; Bet Gru ; 2.15; 2800;occ; 125; 0;38447
 4; 689.4; 08-JUL-2009 00:00:12; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38447
 5; 875.9; 08-JUL-2009 00:03:18; Dark ; 56.0; 172; Gam Gru ; 3.00; 13100;occ; 112; 0;38447
 6; 2188.0; 08-JUL-2009 00:25:10; Bright; 41.5; 168; 17Zet Aql ; 2.99; 11000;occ; 83; 0;38447
 7; 2844.6; 08-JUL-2009 00:36:07; Bright; 44.5; 144; 18Del Cyg ; 2.86; 11000;occ; 89; 0;38447
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 5; -1322.4; 07-JUL-2009 06:40:41; Dark ; 50.0; 50; 13Alp Ari ; 2.01; 4250;occ; 100; 0;38436
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 3; 3284.4; 07-JUL-2009 07:57:28; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38437
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 5; 3848.1; 07-JUL-2009 08:06:51; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;38437
 6; 4259.0; 07-JUL-2009 08:13:42; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;38437
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 10; 5591.6; 07-JUL-2009 08:35:55; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38437
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 4; 3734.0; 07-JUL-2009 09:45:33; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38438
 5; 3847.9; 07-JUL-2009 09:47:27; Bright; 38.0; 110; 37Del Cas ; 2.68; 8900;occ; 76; 0;38438
 6; 4258.8; 07-JUL-2009 09:54:18; Bright; 41.0; 73; 57Gam1And ; 2.26; 13100;occ; 82; 0;38438
 7; 4431.1; 07-JUL-2009 09:57:10; Dark ; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;38438
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 9; 5021.8; 07-JUL-2009 10:07:01; Dark ; 40.5; 94; 92Alp Cet ; 2.53; 3100;occ; 81; 0;38438
 10; 5592.6; 07-JUL-2009 10:16:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38438

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13; 6718.8; 07-JUL-2009 10:35:18; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38438
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 3; 3733.6; 07-JUL-2009 11:26:09; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;38439
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 5; 4258.7; 07-JUL-2009 11:34:54; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;38439
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 4; 3731.1; 07-JUL-2009 18:08:30; Bright; 44.5; 74; 11Bet Cas ; 2.27; 6600;occ; 89; 0;38443

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 6; 4298.0; 08-JUL-2009 17:46:20; Bright; 34.5; 79; 26Bet Per ; 2.31; 13100;occ; 69; 0;38457
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7; 2834.4; 09-JUL-2009 01:44:56; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;38462
8; 3268.2; 09-JUL-2009 01:52:09; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38462
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9; 704.2; 09-JUL-2009 06:11:13; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38465

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7; 4251.3; 11-JUL-2009 07:47:42; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;38494
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3; 694.0; 17-JUL-2009 01:58:07; Dark ; 67.0; 63; Bet Gru ; 2.15; 2800;occ; 134; 0;38577
4; 788.6; 17-JUL-2009 01:59:42; Dark ; 56.5; 31; Alp Gru ; 1.73; 15200;occ; 113; 0;38577
5; 981.8; 17-JUL-2009 02:02:55; Dark ; 53.0; 172; Gam Gru ; 3.00; 13100;occ; 106; 0;38577
6; 2099.5; 17-JUL-2009 02:21:33; Bright; 48.0; 11; 53Alp Aql ; 0.76; 8000;occ; 96; 0;38577
7; 2768.3; 17-JUL-2009 02:32:42; Bright; 41.0; 144; 18Del Cyg ; 2.86; 11000;occ; 82; 0;38577
8; 2903.5; 17-JUL-2009 02:34:57; Bright; 45.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 90; 0;38577
9; 3198.7; 17-JUL-2009 02:39:52; Bright; 39.5; 89; 5Alp Cep ; 2.45; 8000;occ; 79; 0;38577
10; 3643.0; 17-JUL-2009 02:47:16; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38577
11; 3759.6; 17-JUL-2009 02:49:13; Bright; 56.5; 68; 18Alp Cas ; 2.22; 4500;occ; 113; 0;38577
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2; -1917.2; 17-JUL-2009 02:55:12; Bright; 51.0; 35; 33Alp Per ; 1.79; 6250;occ; 102; 0;38577
3; -1739.5; 17-JUL-2009 02:58:10; Bright; 43.5; 79; 26Bet Per ; 2.31; 13100;occ; 87; 0;38577
4; -1407.6; 17-JUL-2009 03:03:42; Dark ; 41.0; 146; 25Eta Tau ; 2.87; 15200;occ; 82; 0;38577
5; -922.4; 17-JUL-2009 03:11:47; Dark ; 64.0; 94; 92Alp Cet ; 2.53; 3100;occ; 128; 0;38577
6; -571.5; 17-JUL-2009 03:17:38; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38577
7; 353.0; 17-JUL-2009 03:33:02; Dark ; 56.0; 84; Alp Phe ; 2.40; 4500;occ; 112; 0;38578
8; 695.2; 17-JUL-2009 03:38:44; Dark ; 54.0; 63; Bet Gru ; 2.15; 2800;occ; 108; 0;38578
9; 789.1; 17-JUL-2009 03:40:18; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38578
10; 982.6; 17-JUL-2009 03:43:32; Dark ; 50.5; 172; Gam Gru ; 3.00; 13100;occ; 101; 0;38578
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12; 2767.7; 17-JUL-2009 04:13:17; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;38578
13; 2902.6; 17-JUL-2009 04:15:32; Bright; 45.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 90; 0;38578
14; 3198.1; 17-JUL-2009 04:20:27; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38578
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3; -1999.5; 17-JUL-2009 04:34:26; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;38578
4; -1917.4; 17-JUL-2009 04:35:48; Bright; 44.5; 35; 33Alp Per ; 1.79; 6250;occ; 89; 0;38578
5; -1739.8; 17-JUL-2009 04:38:45; Bright; 50.0; 79; 26Bet Per ; 2.31; 13100;occ; 100; 0;38578
6; -1407.4; 17-JUL-2009 04:44:18; Dark ; 45.0; 146; 25Eta Tau ; 2.87; 15200;occ; 90; 0;38578
7; -921.5; 17-JUL-2009 04:52:24; Dark ; 59.5; 94; 92Alp Cet ; 2.53; 3100;occ; 119; 0;38578
8; -570.6; 17-JUL-2009 04:58:15; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38578
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3; 2763.0; 17-JUL-2009 20:59:12; Bright; 40.0; 144; 18Del Cyg ; 2.86; 11000;occ; 80; 0;38588
4; 2894.4; 17-JUL-2009 21:01:23; Bright; 49.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 99; 0;38588
5; 3192.3; 17-JUL-2009 21:06:21; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;38588
6; 3635.2; 17-JUL-2009 21:13:44; Bright; 74.0; 74; 11Bet Cas ; 2.27; 6600;occ; 148; 0;38588
7; 3752.3; 17-JUL-2009 21:15:41; Bright; 46.0; 68; 18Alp Cas ; 2.22; 4500;occ; 92; 0;38588
8; 4034.6; 17-JUL-2009 21:20:23; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;38588
9; 4117.5; 17-JUL-2009 21:21:46; Bright; 61.0; 35; 33Alp Per ; 1.79; 6250;occ; 122; 0;38588
10; 4295.9; 17-JUL-2009 21:24:45; Bright; 45.5; 79; 26Bet Per ; 2.31; 13100;occ; 91; 0;38588
11; 4473.6; 17-JUL-2009 21:27:42; Dark ; 45.5; 150; 44Zet Per ; 2.89; 28000;occ; 91; 0;38588

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3; 704.0; 17-JUL-2009 22:05:29; Dark ; 61.5; 63; Bet Gru ; 2.15; 2800;occ; 123; 0;38589
4; 797.0; 17-JUL-2009 22:07:01; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38589
5; 990.3; 17-JUL-2009 22:10:15; Dark ; 50.0; 172; Gam Gru ; 3.00; 13100;occ; 100; 0;38589
6; 2153.9; 17-JUL-2009 22:29:38; Bright; 38.0; 168; 17Zet Aql ; 2.99; 11000;occ; 76; 0;38589
7; 2762.5; 17-JUL-2009 22:39:47; Bright; 41.0; 144; 18Del Cyg ; 2.86; 11000;occ; 82; 0;38589
8; 2893.6; 17-JUL-2009 22:41:58; Bright; 50.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 100; 0;38589
9; 3191.6; 17-JUL-2009 22:46:56; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;38589
10; 3634.4; 17-JUL-2009 22:54:19; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38589
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12; 4034.2; 17-JUL-2009 23:00:59; Bright; 45.5; 160; 23Gam Per ; 2.93; 4700;occ; 91; 0;38589
13; 4117.2; 17-JUL-2009 23:02:22; Bright; 61.0; 35; 33Alp Per ; 1.79; 6250;occ; 122; 0;38589
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4; 797.7; 17-JUL-2009 23:47:38; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 0;38590
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6; 2153.6; 18-JUL-2009 00:10:14; Bright; 37.5; 168; 17Zet Aql ; 2.99; 11000;occ; 75; 0;38590
7; 2762.2; 18-JUL-2009 00:20:23; Bright; 38.5; 144; 18Del Cyg ; 2.86; 11000;occ; 77; 0;38590
8; 2893.0; 18-JUL-2009 00:22:33; Bright; 49.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 99; 0;38590
9; 3191.2; 18-JUL-2009 00:27:32; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38590
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11; 3750.9; 18-JUL-2009 00:36:51; Bright; 44.0; 68; 18Alp Cas ; 2.22; 4500;occ; 88; 0;38590
12; 4034.1; 18-JUL-2009 00:41:34; Bright; 62.0; 160; 23Gam Per ; 2.93; 4700;occ; 124; 0;38590
13; 4117.2; 18-JUL-2009 00:42:58; Bright; 53.0; 35; 33Alp Per ; 1.79; 6250;occ; 106; 0;38590
14; 4295.7; 18-JUL-2009 00:45:56; Bright; 48.0; 79; 26Bet Per ; 2.31; 13100;occ; 96; 0;38590
15; 4473.8; 18-JUL-2009 00:48:54; Dark ; 40.0; 150; 44Zet Per ; 2.89; 28000;occ; 80; 0;38590
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4; 3196.9; 17-JUL-2009 07:41:38; Bright; 63.0; 89; 5Alp Cep ; 2.45; 8000;occ; 126; 0;38580
5; 3641.1; 17-JUL-2009 07:49:02; Bright; 74.0; 74; 11Bet Cas ; 2.27; 6600;occ; 148; 0;38580
6; 3757.6; 17-JUL-2009 07:50:59; Bright; 53.0; 68; 18Alp Cas ; 2.22; 4500;occ; 106; 0;38580
7; 4036.0; 17-JUL-2009 07:55:37; Bright; 46.5; 160; 23Gam Per ; 2.93; 4700;occ; 93; 0;38580
8; 4118.3; 17-JUL-2009 07:56:59; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38580
9; 4296.3; 17-JUL-2009 07:59:57; Bright; 50.0; 79; 26Bet Per ; 2.31; 13100;occ; 100; 0;38580
10; 4472.6; 17-JUL-2009 08:02:54; Dark ; 43.5; 150; 44Zet Per ; 2.89; 28000;occ; 87; 0;38580
11; 4628.9; 17-JUL-2009 08:05:30; Dark ; 43.0; 146; 25Eta Tau ; 2.87; 15200;occ; 86; 0;38580
12; 5116.1; 17-JUL-2009 08:13:37; Dark ; 59.0; 94; 92Alp Cet ; 2.53; 3100;occ; 118; 0;38580
13; 5467.3; 17-JUL-2009 08:19:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38580
14; 6392.4; 17-JUL-2009 08:34:54; Dark ; 58.0; 84; Alp Phe ; 2.40; 4500;occ; 116; 0;38580
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16; 6827.4; 17-JUL-2009 08:42:08; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38580
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3; 2900.2; 17-JUL-2009 09:17:17; Bright; 48.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 96; 0;38581
4; 3196.3; 17-JUL-2009 09:22:13; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38581
5; 3640.2; 17-JUL-2009 09:29:37; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38581
6; 3757.1; 17-JUL-2009 09:31:34; Bright; 53.0; 68; 18Alp Cas ; 2.22; 4500;occ; 106; 0;38581
7; 4035.8; 17-JUL-2009 09:36:13; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;38581

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 12; 5116.9; 17-JUL-2009 09:54:14; Dark ; 58.0; 94; 92Alp Cet ; 2.53; 3100;occ; 116; 0;38581
 13; 5468.3; 17-JUL-2009 10:00:05; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38581
 14; 6393.4; 17-JUL-2009 10:15:30; Dark ; 52.5; 84; Alp Phe ; 2.40; 4500;occ; 105; 0;38581
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 8; 4118.0; 17-JUL-2009 11:18:11; Bright; 53.0; 35; 33Alp Per ; 1.79; 6250;occ; 106; 0;38582
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 16; 6831.1; 17-JUL-2009 17:05:12; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38585
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 4; 3193.6; 17-JUL-2009 17:45:10; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;38586
 5; 3636.7; 17-JUL-2009 17:52:33; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38586
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 16; 6831.7; 17-JUL-2009 18:45:48; Dark ; 54.0; 31; Alp Gru ; 1.73; 15200;occ; 108; 0;38586
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 5; 991.7; 18-JUL-2009 01:31:28; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38591
 6; 2153.4; 18-JUL-2009 01:50:50; Bright; 39.5; 168; 17Zet Aql ; 2.99; 11000;occ; 79; 0;38591
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 3; -1561.9; 18-JUL-2009 02:29:30; Dark ; 43.5; 150; 44Zet Per ; 2.89; 28000;occ; 87; 0;38591
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6;-1561.8; 18-JUL-2009 04:10:06; Dark ; 43.5; 150; 44Zet Per ; 2.89; 28000;occ; 87; 0;38592
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 4; 3133.4; 25-JUL-2009 15:11:50; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38699
 5; 3552.2; 25-JUL-2009 15:18:49; Bright; 67.5; 74; 11Bet Cas ; 2.27; 6600;occ; 135; 0;38699
 6; 3657.6; 25-JUL-2009 15:20:34; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38699
 7; 4008.6; 25-JUL-2009 15:26:25; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;38699
 8; 4100.2; 25-JUL-2009 15:27:56; Bright; 65.0; 35; 33Alp Per ; 1.79; 6250;occ; 130; 0;38699
 9; 4287.8; 25-JUL-2009 15:31:04; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38699
 10; 4488.8; 25-JUL-2009 15:34:25; Dark ; 46.5; 150; 44Zet Per ; 2.89; 28000;occ; 93; 0;38699
 11; 4662.1; 25-JUL-2009 15:37:18; Dark ; 51.5; 146; 25Eta Tau ; 2.87; 15200;occ; 103; 0;38699
 12; 4757.5; 25-JUL-2009 15:38:54; Dark ; 50.0; 13; 87Alp Tau ; 0.87; 3800;occ; 100; 0;38699
 13; 5370.7; 25-JUL-2009 15:49:07; Dark ; 55.0; 165; 34Gam Eri ; 2.95; 3200;occ; 110; 0;38699
 14; 5601.8; 25-JUL-2009 15:52:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38699
 15; 5929.6; 25-JUL-2009 15:58:26; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;38699
 16; 6529.0; 25-JUL-2009 16:08:25; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38699
 17; 6904.7; 25-JUL-2009 16:14:41; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;38699
 18; 7096.8; 25-JUL-2009 16:17:53; Dark ; 48.0; 172; Gam Gru ; 3.00; 13100;occ; 96; 0;38699

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 3; 2815.7; 25-JUL-2009 16:47:08; Bright; 65.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 130; 0;38700
 4; 3133.0; 25-JUL-2009 16:52:25; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38700
 5; 3551.5; 25-JUL-2009 16:59:24; Bright; 53.0; 74; 11Bet Cas ; 2.27; 6600;occ; 106; 0;38700
 6; 3656.9; 25-JUL-2009 17:01:09; Bright; 71.0; 76; 27Gam Cas ; 2.30; 30000;occ; 142; 0;38700
 7; 4008.3; 25-JUL-2009 17:07:01; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;38700
 8; 4100.0; 25-JUL-2009 17:08:32; Bright; 44.0; 35; 33Alp Per ; 1.79; 6250;occ; 88; 0;38700
 9; 4287.7; 25-JUL-2009 17:11:40; Bright; 53.5; 79; 26Bet Per ; 2.31; 13100;occ; 107; 0;38700
 10; 4488.9; 25-JUL-2009 17:15:01; Dark ; 50.0; 150; 44Zet Per ; 2.89; 28000;occ; 100; 0;38700
 11; 4662.6; 25-JUL-2009 17:17:55; Dark ; 52.0; 146; 25Eta Tau ; 2.87; 15200;occ; 104; 0;38700
 12; 4757.7; 25-JUL-2009 17:19:30; Dark ; 57.5; 13; 87Alp Tau ; 0.87; 3800;occ; 115; 0;38700
 13; 5371.3; 25-JUL-2009 17:29:44; Dark ; 50.5; 165; 34Gam Eri ; 2.95; 3200;occ; 101; 0;38700
 14; 5603.1; 25-JUL-2009 17:33:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38700
 15; 5930.5; 25-JUL-2009 17:39:03; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;38700
 16; 6530.0; 25-JUL-2009 17:49:02; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38700
 17; 6905.3; 25-JUL-2009 17:55:18; Dark ; 52.0; 31; Alp Gru ; 1.73; 15200;occ; 104; 0;38700

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 3; 2635.6; 25-JUL-2009 18:24:44; Bright; 48.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 96; 0;38701
 4; 2814.9; 25-JUL-2009 18:27:43; Bright; 45.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 91; 0;38701
 5; 3132.6; 25-JUL-2009 18:33:01; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38701
 6; 3550.7; 25-JUL-2009 18:39:59; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38701
 7; 3656.2; 25-JUL-2009 18:41:44; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;38701
 8; 4007.9; 25-JUL-2009 18:47:36; Bright; 43.5; 160; 23Gam Per ; 2.93; 4700;occ; 87; 0;38701
 9; 4099.5; 25-JUL-2009 18:49:08; Bright; 45.0; 35; 33Alp Per ; 1.79; 6250;occ; 90; 0;38701
 10; 4287.7; 25-JUL-2009 18:52:16; Bright; 53.5; 79; 26Bet Per ; 2.31; 13100;occ; 107; 0;38701
 11; 4489.0; 25-JUL-2009 18:55:37; Dark ; 48.0; 150; 44Zet Per ; 2.89; 28000;occ; 96; 0;38701
 12; 4662.8; 25-JUL-2009 18:58:31; Dark ; 49.0; 146; 25Eta Tau ; 2.87; 15200;occ; 98; 0;38701
 13; 4757.8; 25-JUL-2009 19:00:06; Dark ; 50.0; 13; 87Alp Tau ; 0.87; 3800;occ; 100; 0;38701
 14; 5372.1; 25-JUL-2009 19:10:20; Dark ; 49.0; 165; 34Gam Eri ; 2.95; 3200;occ; 98; 0;38701
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 16; 5931.2; 25-JUL-2009 19:19:40; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;38701
 17; 6531.2; 25-JUL-2009 19:29:39; Dark ; 53.0; 84; Alp Phe ; 2.40; 4500;occ; 106; 0;38701
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6; 1063.4; 26-JUL-2009 00:40:55; Dark ; 48.0; 172; Gam Gru ; 3.00; 13100;occ; 96; 0;38705
7; 2068.9; 26-JUL-2009 00:57:41; Bright; 40.0; 11; 53Alp Aql ; 0.76; 8000;occ; 80; 0;38705
8; 2632.5; 26-JUL-2009 01:07:04; Bright; 48.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 97; 0;38705
9; 2812.5; 26-JUL-2009 01:10:04; Bright; 44.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 89; 0;38705
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11; 3547.3; 26-JUL-2009 01:22:19; Bright; 50.0; 74; 11Bet Cas ; 2.27; 6600;occ; 100; 0;38705
12; 3653.6; 26-JUL-2009 01:24:06; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38705
13; 4006.8; 26-JUL-2009 01:29:59; Bright; 44.0; 160; 23Gam Per ; 2.93; 4700;occ; 88; 0;38705
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15; 4287.0; 26-JUL-2009 01:34:39; Bright; 52.0; 79; 26Bet Per ; 2.31; 13100;occ; 104; 0;38705
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4; 499.6; 26-JUL-2009 02:12:07; Dark ; 56.0; 84; Alp Phe ; 2.40; 4500;occ; 112; 0;38706
5; 872.2; 26-JUL-2009 02:18:20; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;38706
6; 1064.0; 26-JUL-2009 02:21:32; Dark ; 46.5; 172; Gam Gru ; 3.00; 13100;occ; 93; 0;38706
7; 2068.8; 26-JUL-2009 02:38:17; Bright; 43.0; 11; 53Alp Aql ; 0.76; 8000;occ; 86; 0;38706
8; 2631.9; 26-JUL-2009 02:47:40; Bright; 48.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 97; 0;38706
9; 2811.9; 26-JUL-2009 02:50:40; Bright; 43.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 86; 0;38706
10; 3130.0; 26-JUL-2009 02:55:58; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38706
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5; -1749.0; 26-JUL-2009 03:15:15; Bright; 53.0; 79; 26Bet Per ; 2.31; 13100;occ; 106; 0;38706
6; -1546.4; 26-JUL-2009 03:18:37; Dark ; 48.5; 150; 44Zet Per ; 2.89; 28000;occ; 97; 0;38706
7; -1371.6; 26-JUL-2009 03:21:32; Dark ; 52.5; 146; 25Eta Tau ; 2.87; 15200;occ; 105; 0;38706
8; -1276.4; 26-JUL-2009 03:23:07; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;38706
9; -660.1; 26-JUL-2009 03:33:24; Dark ; 49.5; 165; 34Gam Eri ; 2.95; 3200;occ; 99; 0;38706
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4; -1749.0; 26-JUL-2009 04:55:51; Bright; 55.0; 79; 26Bet Per ; 2.31; 13100;occ; 110; 0;38707
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6; -1371.4; 26-JUL-2009 05:02:08; Dark ; 51.5; 146; 25Eta Tau ; 2.87; 15200;occ; 103; 0;38707
7; -1276.0; 26-JUL-2009 05:03:44; Dark ; 53.0; 13; 87Alp Tau ; 0.87; 3800;occ; 106; 0;38707
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13; 1065.1; 26-JUL-2009 05:42:45; Dark ; 46.5; 172; Gam Gru ; 3.00; 13100;occ; 93; 0;38708
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16; 2810.8; 26-JUL-2009 06:11:51; Bright; 64.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 128; 0;38708
17; 3129.1; 26-JUL-2009 06:17:09; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38708

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3; 2067.3; 26-JUL-2009 21:04:51; Bright; 40.0; 11; 53Alp Aql ; 0.76; 8000;occ; 80; 0;38717
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17; 4668.1; 26-JUL-2009 23:28:47; Dark ; 52.5; 146; 25Eta Tau ; 2.87; 15200;occ; 105; 0;38718
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16; 6558.0; 27-JUL-2009 11:44:29; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38725
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3; 2800.4; 27-JUL-2009 12:22:27; Bright; 63.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 126; 0;38726
4; 3120.4; 27-JUL-2009 12:27:47; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38726
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7; 4000.7; 27-JUL-2009 12:42:27; Bright; 45.5; 160; 23Gam Per ; 2.93; 4700;occ; 91; 0;38726
8; 4094.4; 27-JUL-2009 12:44:01; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38726

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 12; 4766.3; 27-JUL-2009 12:55:13; Dark ; 51.0; 13; 87Alp Tau ; 0.87; 3800;occ; 102; 0;38726
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 12; 4767.4; 27-JUL-2009 17:57:02; Dark ; 46.5; 13; 87Alp Tau ; 0.87; 3800;occ; 93; 0;38729
 13; 5393.8; 27-JUL-2009 18:07:28; Dark ; 48.5; 165; 34Gam Eri ; 2.95; 3200;occ; 97; 0;38729
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 16; 6562.6; 27-JUL-2009 18:26:57; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38729
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 4; 2615.5; 27-JUL-2009 19:01:46; Bright; 46.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 92; 0;38730
 5; 2709.8; 27-JUL-2009 19:03:20; Bright; 39.0; 144; 18Del Cyg ; 2.86; 11000;occ; 78; 0;38730
 6; 2798.0; 27-JUL-2009 19:04:48; Bright; 63.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 126; 0;38730
 7; 3118.5; 27-JUL-2009 19:10:09; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38730
 8; 3527.9; 27-JUL-2009 19:16:58; Bright; 50.5; 74; 11Bet Cas ; 2.27; 6600;occ; 101; 0;38730
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 5; 888.3; 28-JUL-2009 01:15:22; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38734
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 9; 2708.7; 28-JUL-2009 01:45:43; Bright; 39.0; 144; 18Del Cyg ; 2.86; 11000;occ; 78; 0;38734
 10; 2795.6; 28-JUL-2009 01:47:09; Bright; 43.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 87; 0;38734
 11; 3116.6; 28-JUL-2009 01:52:30; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38734
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13; 5285.0; 31-JUL-2009 17:39:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38786
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