

GOMOS Daily Report 12-JUL-2009

Level 0 and Level 1 products

SUMMARY

[1. General Info](#)

[2. Summary of products arrived in PCF \(Product Control Facility\)](#)

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

[3. Plot of Spectrometers and Photometers temperatures](#)

[4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

[5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

[6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

[7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

[Level 2 products](#)

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	14JUL2009 04:34:53
Data source version	GOMOS/5.00
Start time of products	12JUL2009 00:09:38
Stop time of products	12JUL2009 23:58:39
Store outputs in DB	Yes
Nb of level 1b prods	89
Nb of prods with errors	0

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

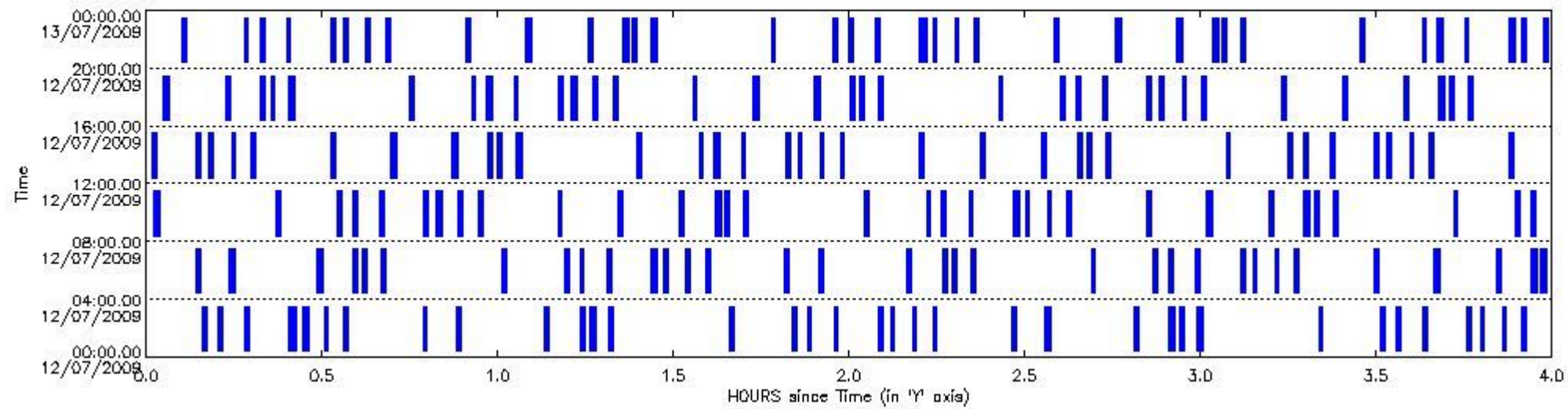
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



2.3 Summary of missing occultations (red segments in previous plot)

No missing products.

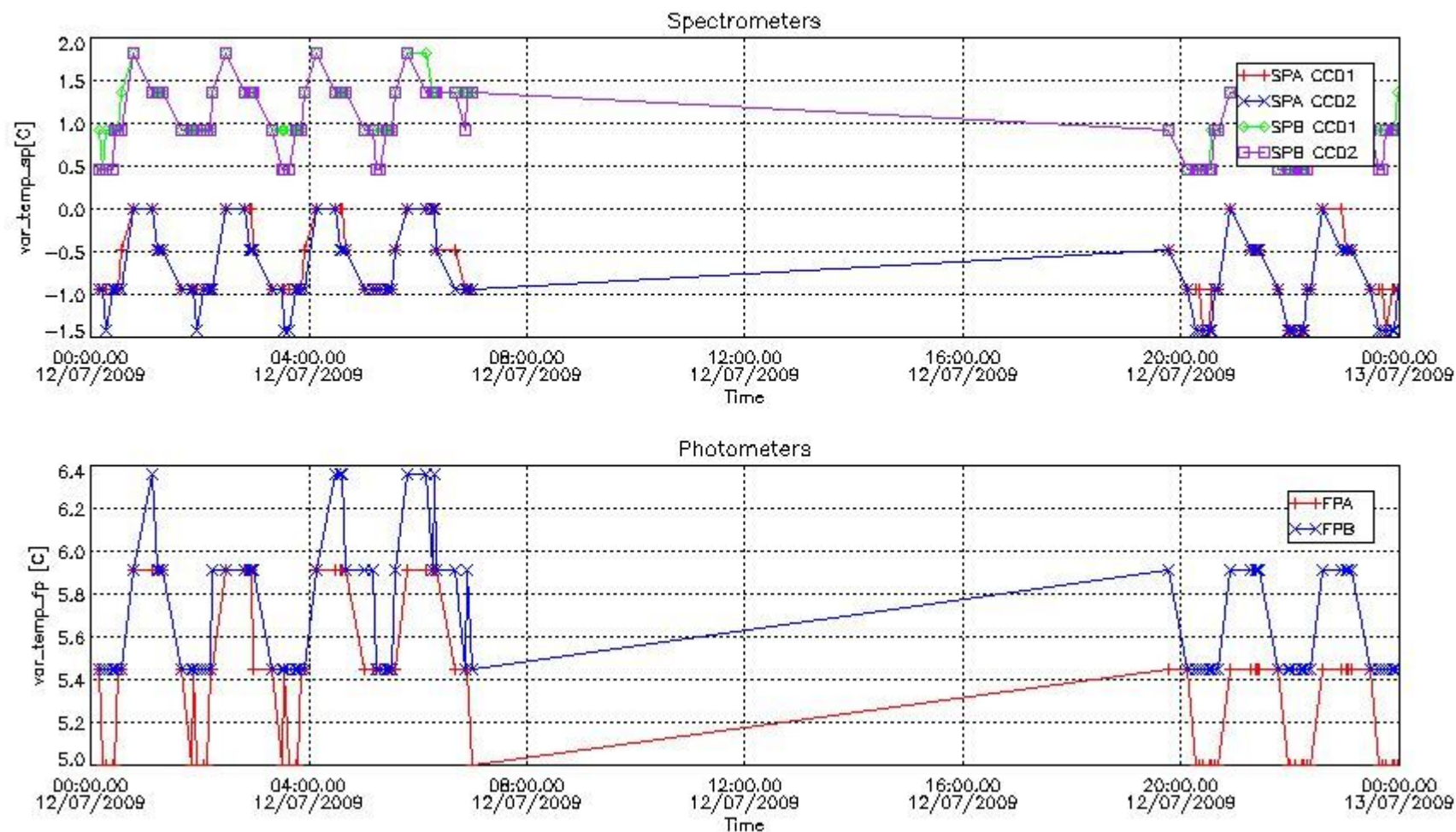
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090712_000938_000000442080_00374_38504_3583.N1	12-JUL-2009 00:09:38	Bright	44.000	144	18Del Cyg	2.8600	11000.	88	38504	No
2	GOM_TRA_1PNPDE20090712_001219_000000362080_00374_38504_3584.N1	12-JUL-2009 00:12:19	Twilight_and_stray	36.000	19	50Alp Cyg	1.2460	10500.	72	38504	No
3	GOM_TRA_1PNPDE20090712_001652_000000412080_00374_38504_3585.N1	12-JUL-2009 00:16:52	Bright	40.500	89	5Alp Cep	2.4510	8000.0	81	38504	No
4	GOM_TRA_1PNPDE20090712_002423_000000732080_00374_38504_3586.N1	12-JUL-2009 00:24:23	Bright	73.000	74	11Bet Cas	2.2680	6600.0	146	38504	No
5	GOM_TRA_1PNPDE20090712_002633_000000662080_00374_38504_3587.N1	12-JUL-2009 00:26:33	Bright	66.000	110	37Del Cas	2.6780	8900.0	132	38504	No
6	GOM_TRA_1PNPDE20090712_003019_000000372080_00374_38504_3588.N1	12-JUL-2009 00:30:19	Bright	37.000	160	23Gam Per	2.9300	4700.0	74	38504	No
7	GOM_TRA_1PNPDE20090712_003340_000000462080_00374_38504_3589.N1	12-JUL-2009 00:33:40	Bright	45.500	73	57Gam1And	2.2600	13100.	91	38504	No
8	GOM_TRA_1PNPDE20090712_004711_000000442080_00374_38504_3590.N1	12-JUL-2009 00:47:11	Dark	43.500	94	92Alp Cet	2.5260	3100.0	87	38504	No
9	GOM_TRA_1PNPDE20090712_010756_000000522080_00375_38505_3726.N1	12-JUL-2009 01:07:56	Dark	52.000	84	Alp Phe	2.3970	4500.0	104	38505	No
10	GOM_TRA_1PNPDE20090712_011400_000000522080_00375_38505_3727.N1	12-JUL-2009 01:14:00	Straylight	52.000	63	Bet Gru	2.1500	2800.0	104	38505	No
11	GOM_TRA_1PNPDE20090712_011542_000000572080_00375_38505_3728.N1	12-JUL-2009 01:15:42	Straylight	57.000	31	Alp Gru	1.7340	15200.	114	38505	No
12	GOM_TRA_1PNPDE20090712_011852_000000552080_00375_38505_3729.N1	12-JUL-2009 01:18:52	Straylight	55.000	172	Gam Gru	3.0030	13100.	110	38505	No

13	GOM_TRA_1PNPDE20090712_013937_000000422080_00375_38505_3730.N1	12-JUL-2009 01:39:37	Bright	42.000	168	17Zet Aql	2.9860	11000.	84	38505	No
14	GOM_TRA_1PNPDE20090712_015014_000000432080_00375_38505_3731.N1	12-JUL-2009 01:50:14	Bright	42.500	144	18Del Cyg	2.8600	11000.	85	38505	No
15	GOM_TRA_1PNPDE20090712_015254_000000362080_00375_38505_3732.N1	12-JUL-2009 01:52:54	Twilight	36.000	19	50Alp Cyg	1.2460	10500.	72	38505	No
16	GOM_TRA_1PNPDE20090712_015728_000000402080_00375_38505_3733.N1	12-JUL-2009 01:57:28	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	38505	No
17	GOM_TRA_1PNPDE20090712_020458_000000482080_00375_38505_3734.N1	12-JUL-2009 02:04:58	Bright	47.500	74	11Bet Cas	2.2680	6600.0	95	38505	No
18	GOM_TRA_1PNPDE20090712_020708_000000402080_00375_38505_3735.N1	12-JUL-2009 02:07:08	Bright	40.000	110	37Del Cas	2.6780	8900.0	80	38505	No
19	GOM_TRA_1PNPDE20090712_021054_000000372080_00375_38505_3879.N1	12-JUL-2009 02:10:54	Bright	37.000	160	23Gam Per	2.9300	4700.0	74	38505	No
20	GOM_TRA_1PNPDE20090712_021416_000000462080_00375_38505_3880.N1	12-JUL-2009 02:14:16	Bright	46.000	73	57Gam1And	2.2600	13100.	92	38505	No
21	GOM_TRA_1PNPDE20090712_022748_000000442080_00375_38505_3881.N1	12-JUL-2009 02:27:48	Dark	44.000	94	92Alp Cet	2.5260	3100.0	88	38505	No
22	GOM_TRA_1PNPDE20090712_024833_000000522080_00376_38506_3882.N1	12-JUL-2009 02:48:33	Dark	52.000	84	Alp Phe	2.3970	4500.0	104	38506	No
23	GOM_TRA_1PNPDE20090712_025436_000000632080_00376_38506_3883.N1	12-JUL-2009 02:54:36	Straylight	62.500	63	Bet Gru	2.1500	2800.0	125	38506	No
24	GOM_TRA_1PNPDE20090712_025618_000000532080_00376_38506_3884.N1	12-JUL-2009 02:56:18	Straylight	52.500	31	Alp Gru	1.7340	15200.	105	38506	No
25	GOM_TRA_1PNPDE20090712_025929_000000532080_00376_38506_3885.N1	12-JUL-2009 02:59:29	Straylight	52.500	172	Gam Gru	3.0030	13100.	105	38506	No
26	GOM_TRA_1PNPDE20090712_032012_000000422080_00376_38506_3886.N1	12-JUL-2009 03:20:12	Bright	41.500	168	17Zet Aql	2.9860	11000.	83	38506	No
27	GOM_TRA_1PNPDE20090712_033049_000000452080_00376_38506_3887.N1	12-JUL-2009 03:30:49	Bright	44.500	144	18Del Cyg	2.8600	11000.	89	38506	No
28	GOM_TRA_1PNPDE20090712_033329_000000412080_00376_38506_3888.N1	12-JUL-2009 03:33:29	Bright	41.000	19	50Alp Cyg	1.2460	10500.	82	38506	No
29	GOM_TRA_1PNPDE20090712_033803_000000442080_00376_38506_3889.N1	12-JUL-2009 03:38:03	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	38506	No
30	GOM_TRA_1PNPDE20090712_034534_000000482080_00376_38506_4027.N1	12-JUL-2009 03:45:34	Bright	48.000	74	11Bet Cas	2.2680	6600.0	96	38506	No
31	GOM_TRA_1PNPDE20090712_034744_000000412080_00376_38506_4028.N1	12-JUL-2009 03:47:44	Bright	41.000	110	37Del Cas	2.6780	8900.0	82	38506	No
32	GOM_TRA_1PNPDE20090712_035130_000000362080_00376_38506_4029.N1	12-JUL-2009 03:51:30	Bright	36.000	160	23Gam Per	2.9300	4700.0	72	38506	No
33	GOM_TRA_1PNPDE20090712_035452_000000462080_00376_38506_4030.N1	12-JUL-2009 03:54:52	Bright	45.500	73	57Gam1And	2.2600	13100.	91	38506	No
34	GOM_TRA_1PNPDE20090712_040824_000000452080_00376_38506_4031.N1	12-JUL-2009 04:08:24	Dark	44.500	94	92Alp Cet	2.5260	3100.0	89	38506	No
35	GOM_TRA_1PNPDE20090712_042910_000000522080_00377_38507_4032.N1	12-JUL-2009 04:29:10	Dark	52.000	84	Alp Phe	2.3970	4500.0	104	38507	No
36	GOM_TRA_1PNPDE20090712_043513_000000512080_00377_38507_4033.N1	12-JUL-2009 04:35:13	Straylight	51.000	63	Bet Gru	2.1500	2800.0	102	38507	No
37	GOM_TRA_1PNPDE20090712_043655_000000492080_00377_38507_4034.N1	12-JUL-2009 04:36:55	Straylight	49.000	31	Alp Gru	1.7340	15200.	98	38507	No
38	GOM_TRA_1PNPDE20090712_044006_000000532080_00377_38507_4035.N1	12-JUL-2009 04:40:06	Straylight	53.000	172	Gam Gru	3.0030	13100.	106	38507	No
39	GOM_TRA_1PNPDE20090712_050049_000000442080_00377_38507_4036.N1	12-JUL-2009 05:00:49	Bright	44.000	168	17Zet Aql	2.9860	11000.	88	38507	No
40	GOM_TRA_1PNPDE20090712_051124_000000442080_00377_38507_4037.N1	12-JUL-2009 05:11:24	Bright	43.500	144	18Del Cyg	2.8600	11000.	87	38507	No
41	GOM_TRA_1PNPDE20090712_051404_000000412080_00377_38507_4038.N1	12-JUL-2009 05:14:04	Bright	41.000	19	50Alp Cyg	1.2460	10500.	82	38507	No
42	GOM_TRA_1PNPDE20090712_051838_000000462080_00377_38507_4039.N1	12-JUL-2009 05:18:38	Bright	46.000	89	5Alp Cep	2.4510	8000.0	92	38507	No
43	GOM_TRA_1PNPDE20090712_052609_000000662080_00377_38507_4197.N1	12-JUL-2009 05:26:09	Bright	65.500	74	11Bet Cas	2.2680	6600.0	131	38507	No
44	GOM_TRA_1PNPDE20090712_052819_000000522080_00377_38507_4198.N1	12-JUL-2009 05:28:19	Bright	51.500	110	37Del Cas	2.6780	8900.0	103	38507	No
45	GOM_TRA_1PNPDE20090712_053206_000000432080_00377_38507_4199.N1	12-JUL-2009 05:32:06	Bright	42.500	160	23Gam Per	2.9300	4700.0	85	38507	No
46	GOM_TRA_1PNPDE20090712_053527_000000462080_00377_38507_4200.N1	12-JUL-2009 05:35:27	Bright	46.000	73	57Gam1And	2.2600	13100.	92	38507	No
47	GOM_TRA_1PNPDE20090712_054901_000000452080_00377_38507_4201.N1	12-JUL-2009 05:49:01	Dark	44.500	94	92Alp Cet	2.5260	3100.0	89	38507	No
48	GOM_TRA_1PNPDE20090712_060947_000000522080_00378_38508_4202.N1	12-JUL-2009 06:09:47	Dark	52.000	84	Alp Phe	2.3970	4500.0	104	38508	No
49	GOM_TRA_1PNPDE20090712_061550_000000512080_00378_38508_4203.N1	12-JUL-2009 06:15:50	Straylight	51.000	63	Bet Gru	2.1500	2800.0	102	38508	No
50	GOM_TRA_1PNPDE20090712_061732_000000482080_00378_38508_4204.N1	12-JUL-2009 06:17:32	Straylight	48.000	31	Alp Gru	1.7340	15200.	96	38508	No
51	GOM_TRA_1PNPDE20090712_062043_000000532080_00378_38508_4205.N1	12-JUL-2009 06:20:43	Straylight	52.500	172	Gam Gru	3.0030	13100.	105	38508	No
52	GOM_TRA_1PNPDE20090712_064124_000000402080_00378_38508_4206.N1	12-JUL-2009 06:41:24	Bright	40.000	168	17Zet Aql	2.9860	11000.	80	38508	No
53	GOM_TRA_1PNPDE20090712_065200_000000442080_00378_38508_4207.N1	12-JUL-2009 06:52:00	Bright	43.500	144	18Del Cyg	2.8600	11000.	87	38508	No
54	GOM_TRA_1PNPDE20090712_065439_000000452080_00378_38508_4208.N1	12-JUL-2009 06:54:39	Bright	45.000	19	50Alp Cyg	1.2460	10500.	90	38508	No
55	GOM_TRA_1PNPDE20090712_065914_000000442080_00378_38508_4209.N1	12-JUL-2009 06:59:14	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	38508	No
56	GOM_TRA_1PNPDE20090712_194537_000000532080_00386_38516_4626.N1	12-JUL-2009 19:45:37	Straylight	53.000	172	Gam Gru	3.0030	13100.	106	38516	No
57	GOM_TRA_1PNPDE20090712_200610_000000422080_00386_38516_4627.N1	12-JUL-2009 20:06:10	Bright	41.500	168	17Zet Aql	2.9860	11000.	83	38516	No
58	GOM_TRA_1PNPDE20090712_201642_000000432080_00386_38516_4628.N1	12-JUL-2009 20:16:42	Bright	42.500	144	18Del Cyg	2.8600	11000.	85	38516	No
59	GOM_TRA_1PNPDE20090712_201919_000000542080_00386_38516_4629.N1	12-JUL-2009 20:19:19	Bright	54.000	19	50Alp Cyg	1.2460	10500.	108	38516	No
60	GOM_TRA_1PNPDE20090712_202356_000000412080_00386_38516_4630.N1	12-JUL-2009 20:23:56	Bright	41.000	89	5Alp Cep	2.4510	8000.0	82	38516	No
61	GOM_TRA_1PNPDE20090712_203126_000000502080_00386_38516_4631.N1	12-JUL-2009 20:31:26	Bright	50.000	74	11Bet Cas	2.2680	6600.0	100	38516	No
62	GOM_TRA_1PNPDE20090712_203339_000000422080_00386_38516_4632.N1	12-JUL-2009 20:33:39	Bright	41.500	110	37Del Cas	2.6780	8900.0	83	38516	No
63	GOM_TRA_1PNPDE20090712_203728_000000372080_00386_38516_4633.N1	12-JUL-2009 20:37:28	Bright	36.500	160	23Gam Per	2.9300	4700.0	73	38516	No
64	GOM_TRA_1PNPDE20090712_204049_000000462080_00386_38516_4634.N1	12-JUL-2009 20:40:49	Bright	45.500	73	57Gam1And	2.2600	13100.	91	38516	No
65	GOM_TRA_1PNPDE20090712_205430_000000452080_00386_38516_4778.N1	12-JUL-2009 20:54:30	Dark	44.500	94	92Alp Cet	2.5260	3100.0	89	38516	No
66	GOM_TRA_1PNPDE20090712_211521_000000552080_00387_38517_4779.N1	12-JUL-2009 21:15:21	Dark	54.500	84	Alp Phe	2.3970	4500.0	109	38517	No
67	GOM_TRA_1PNPDE20090712_212121_000000642080_00387_38517_4780.N1	12-JUL-2009 21:21:21	Straylight	64.000	63	Bet Gru	2.1500	2800.0	128	38517	No
68	GOM_TRA_1PNPDE20090712_212302_000000492080_00387_38517_4781.N1	12-JUL-2009 21:23:02	Straylight	49.000	31	Alp Gru	1.7340	15200.	98	38517	No
69	GOM_TRA_1PNPDE20090712_212614_000000562080_00387_38517_4782.N1	12-JUL-2009 21:26:14	Straylight	56.000	172	Gam Gru	3.0030	13100.	112	38517	No
70	GOM_TRA_1PNPDE20090712_214645_000000392080_00387_38517_4783.N1	12-JUL-2009 21:46:45	Bright	39.000	168	17Zet Aql	2.9860	11000.	78	38517	No
71	GOM_TRA_1PNPDE20090712_215718_000000442080_00387_38517_4784.N1	12-JUL-2009 21:57:18	Bright	43.500	144	18Del Cyg	2.8600	11000.	87	38517	No

72	GOM_TRA_1PNPDE20090712_215954_000000532080_00387_38517_4785.N1	12-JUL-2009 21:59:54	Bright	52.500	19	50Alp Cyg	1.2460	10500.	105	38517	No
73	GOM_TRA_1PNPDE20090712_220432_000000412080_00387_38517_4786.N1	12-JUL-2009 22:04:32	Bright	41.000	89	5Alp Cep	2.4510	8000.0	82	38517	No
74	GOM_TRA_1PNPDE20090712_221202_000000712080_00387_38517_4787.N1	12-JUL-2009 22:12:02	Bright	71.000	74	11Bet Cas	2.2680	6600.0	142	38517	No
75	GOM_TRA_1PNPDE20090712_221415_000000432080_00387_38517_4788.N1	12-JUL-2009 22:14:15	Bright	42.500	110	37Del Cas	2.6780	8900.0	85	38517	No
76	GOM_TRA_1PNPDE20090712_221804_000000372080_00387_38517_4789.N1	12-JUL-2009 22:18:04	Bright	37.000	160	23Gam Per	2.9300	4700.0	74	38517	No
77	GOM_TRA_1PNPDE20090712_222125_000000472080_00387_38517_4790.N1	12-JUL-2009 22:21:25	Bright	46.500	73	57Gam1And	2.2600	13100.	93	38517	No
78	GOM_TRA_1PNPDE20090712_223507_000000452080_00387_38517_4791.N1	12-JUL-2009 22:35:07	Dark	44.500	94	92Alp Cet	2.5260	3100.0	89	38517	No
79	GOM_TRA_1PNPDE20090712_225558_000000542080_00388_38518_4939.N1	12-JUL-2009 22:55:58	Dark	53.500	84	Alp Phe	2.3970	4500.0	107	38518	No
80	GOM_TRA_1PNPDE20090712_230158_000000632080_00388_38518_4940.N1	12-JUL-2009 23:01:58	Straylight	62.500	63	Bet Gru	2.1500	2800.0	125	38518	No
81	GOM_TRA_1PNPDE20090712_230339_000000552080_00388_38518_4941.N1	12-JUL-2009 23:03:39	Straylight	54.500	31	Alp Gru	1.7340	15200.	109	38518	No
82	GOM_TRA_1PNPDE20090712_230650_000000552080_00388_38518_4942.N1	12-JUL-2009 23:06:50	Straylight	54.500	172	Gam Gru	3.0030	13100.	109	38518	No
83	GOM_TRA_1PNPDE20090712_232721_000000392080_00388_38518_4943.N1	12-JUL-2009 23:27:21	Bright	39.000	168	17Zet Aql	2.9860	11000.	78	38518	No
84	GOM_TRA_1PNPDE20090712_233753_000000442080_00388_38518_4944.N1	12-JUL-2009 23:37:53	Bright	43.500	144	18Del Cyg	2.8600	11000.	87	38518	No
85	GOM_TRA_1PNPDE20090712_234029_000000542080_00388_38518_4945.N1	12-JUL-2009 23:40:29	Bright	54.000	19	50Alp Cyg	1.2460	10500.	108	38518	No
86	GOM_TRA_1PNPDE20090712_234507_000000422080_00388_38518_4946.N1	12-JUL-2009 23:45:07	Bright	41.500	89	5Alp Cep	2.4510	8000.0	83	38518	No
87	GOM_TRA_1PNPDE20090712_235237_000000732080_00388_38518_4947.N1	12-JUL-2009 23:52:37	Bright	73.000	74	11Bet Cas	2.2680	6600.0	146	38518	No
88	GOM_TRA_1PNPDE20090712_235450_000000412080_00388_38518_4948.N1	12-JUL-2009 23:54:50	Bright	41.000	110	37Del Cas	2.6780	8900.0	82	38518	No
89	GOM_TRA_1PNPDE20090712_235839_000000372080_00388_38518_4949.N1	12-JUL-2009 23:58:39	Bright	36.500	160	23Gam Per	2.9300	4700.0	73	38518	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"

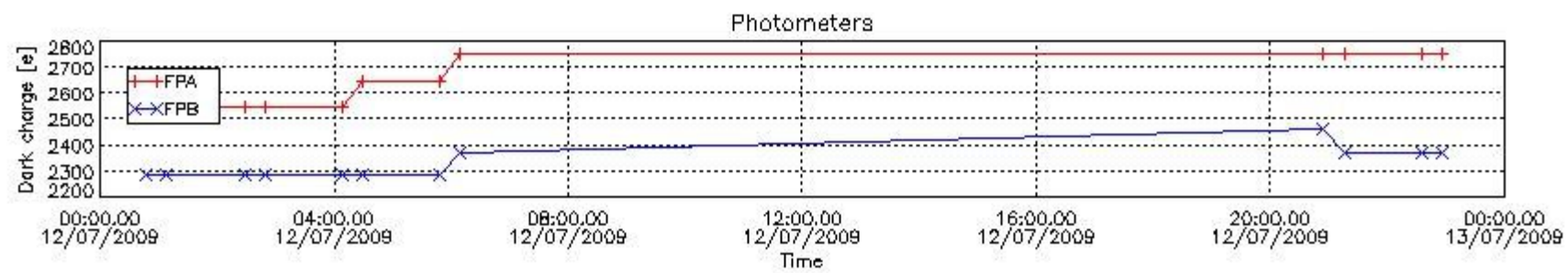
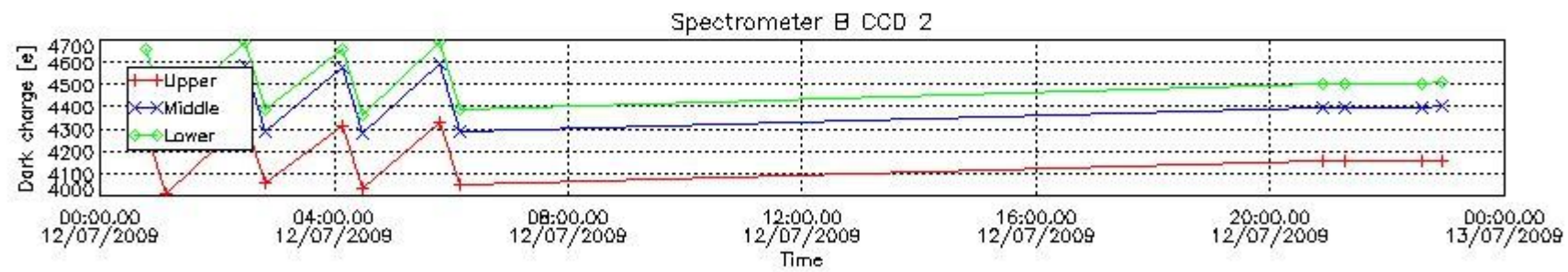
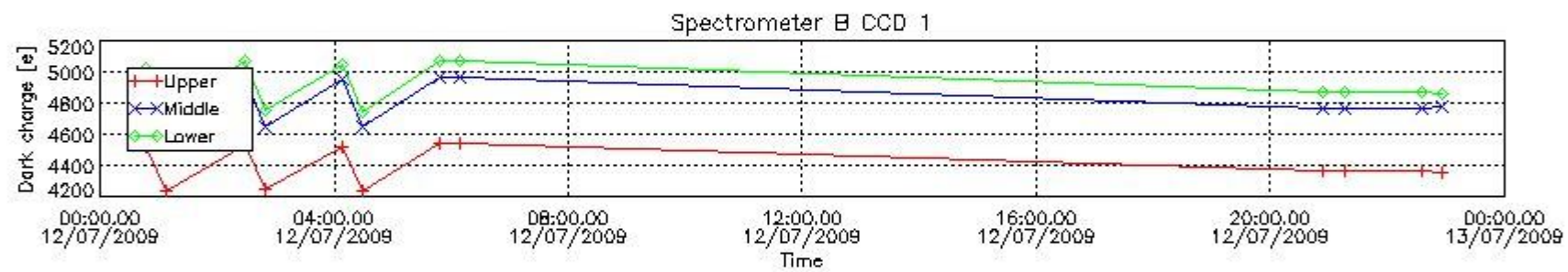
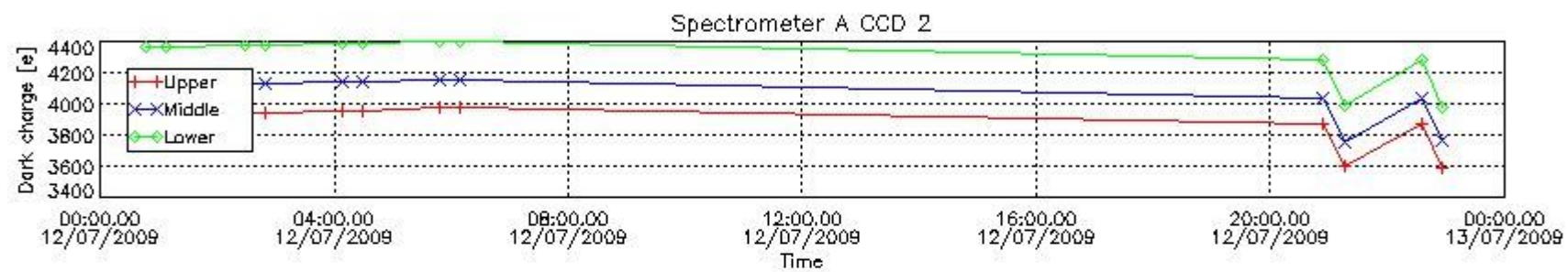
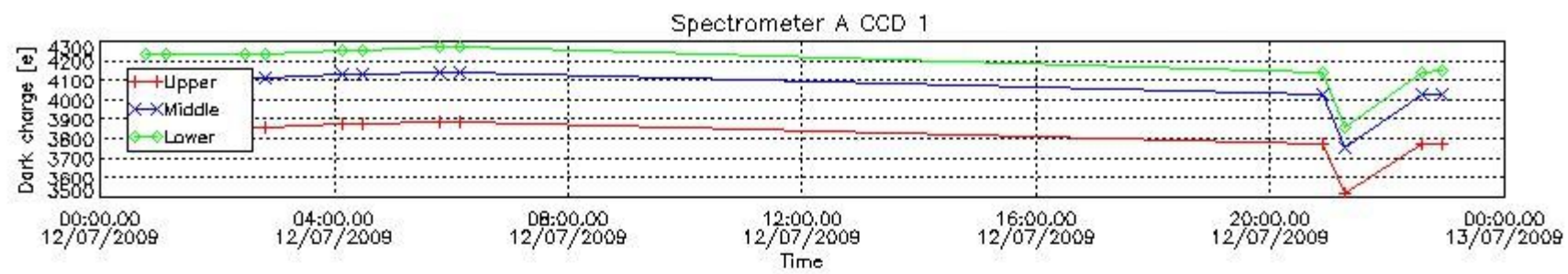
(a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

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_1PNPDE20090712_194537_000000532080_00386_38516_4626.N1	DC map used
GOM_TRA_1PNPDE20090712_200610_000000422080_00386_38516_4627.N1	DC map used
GOM_TRA_1PNPDE20090712_201642_000000432080_00386_38516_4628.N1	DC map used
GOM_TRA_1PNPDE20090712_201919_000000542080_00386_38516_4629.N1	DC map used
GOM_TRA_1PNPDE20090712_202356_000000412080_00386_38516_4630.N1	DC map used
GOM_TRA_1PNPDE20090712_203126_000000502080_00386_38516_4631.N1	DC map used
GOM_TRA_1PNPDE20090712_203339_000000422080_00386_38516_4632.N1	DC map used
GOM_TRA_1PNPDE20090712_203728_000000372080_00386_38516_4633.N1	DC map used
GOM_TRA_1PNPDE20090712_204049_000000462080_00386_38516_4634.N1	DC map used

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



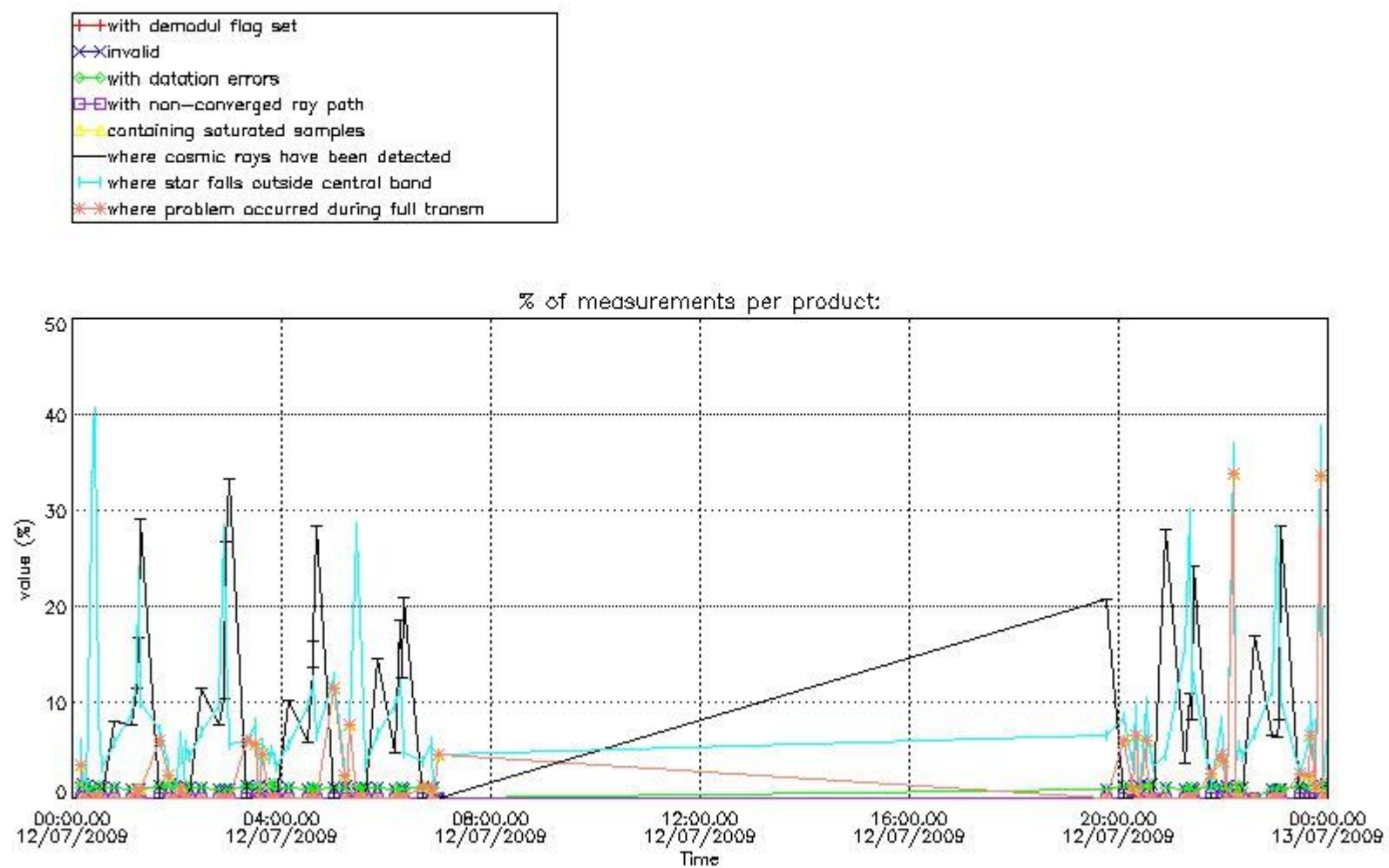
5. Demodulation flag and quality information monitoring

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.

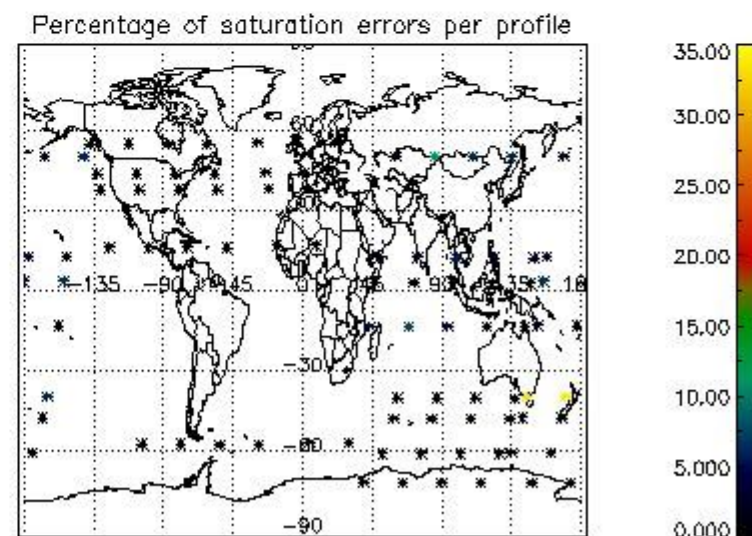
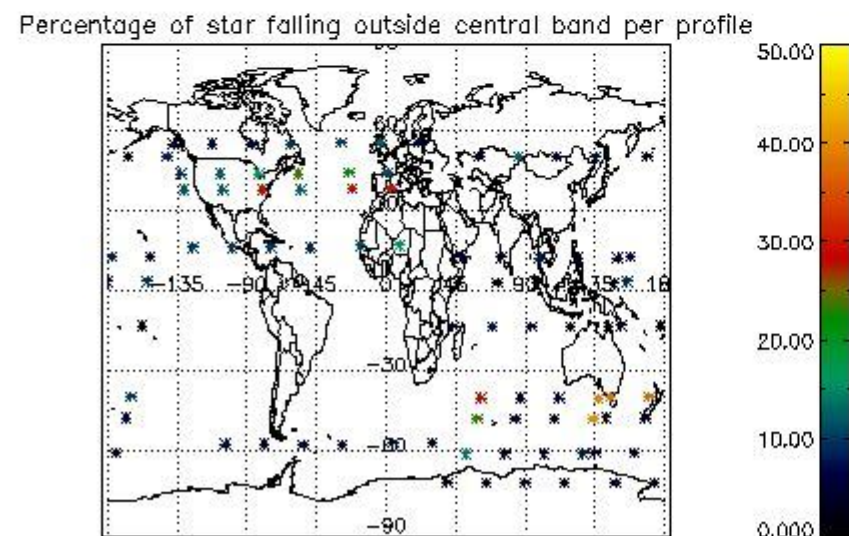
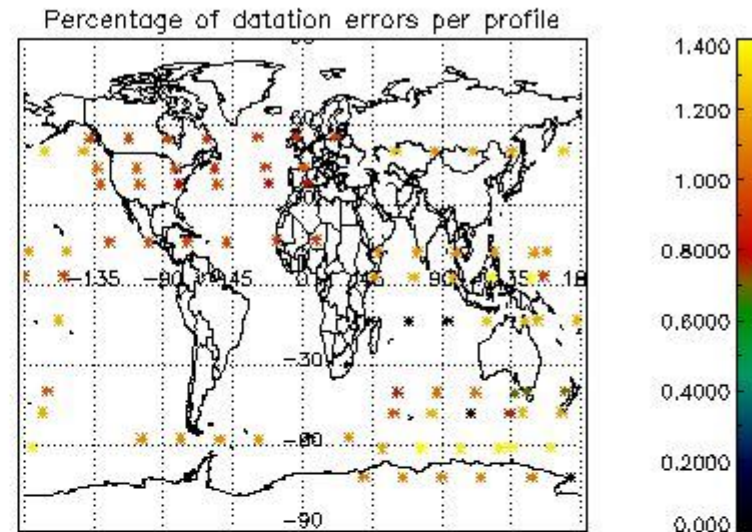
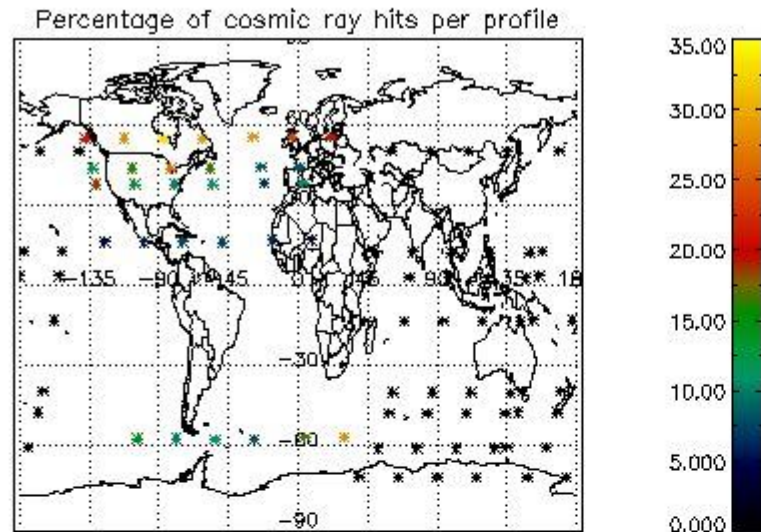
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	17.9775 %
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)



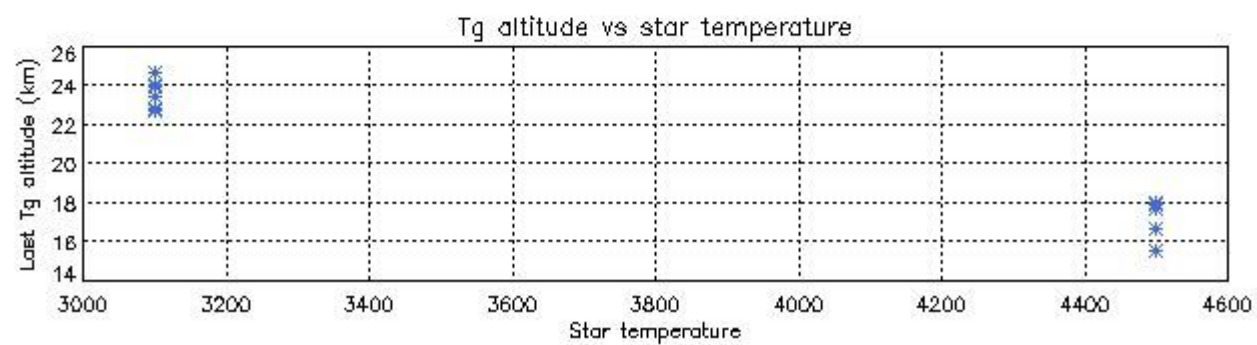
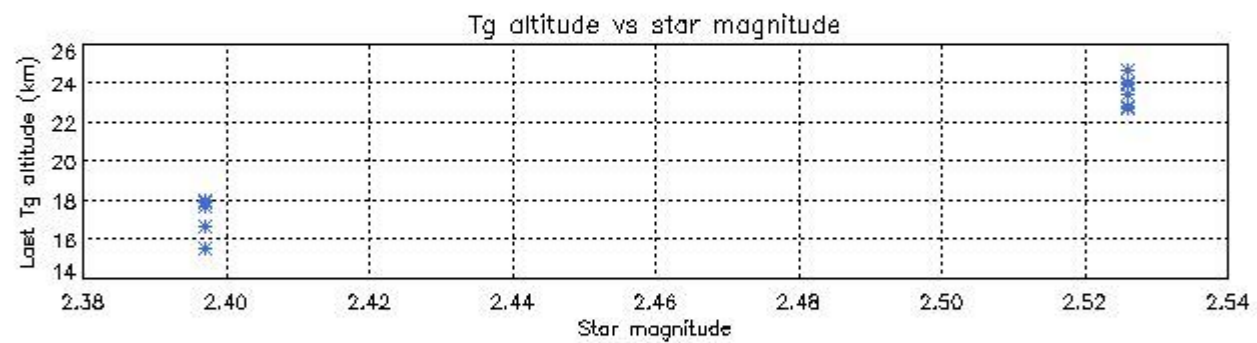
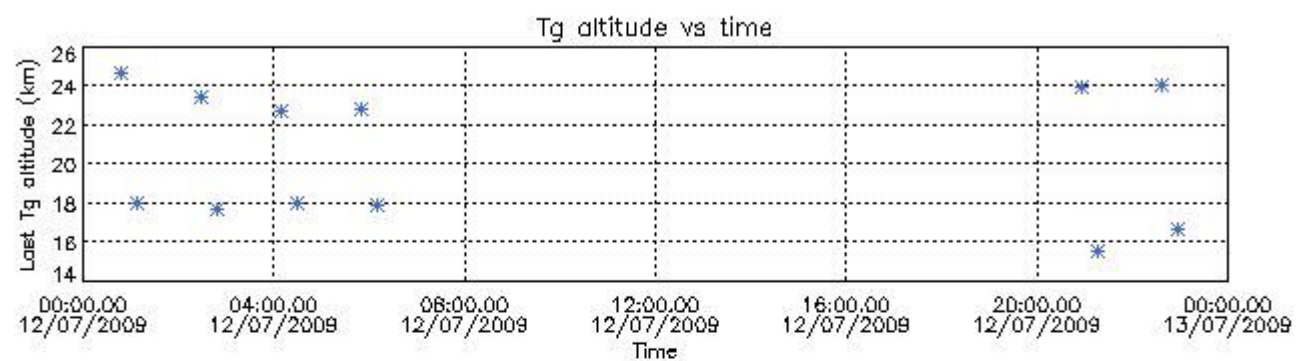
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	20.437	23.286	NaN
St. deviation:	3.3967	8.0376	NaN
Maximum:	24.624	40.723	NaN
Minimum:	15.494	3.3630	NaN
Number of data:	12.000	56.000	NaN

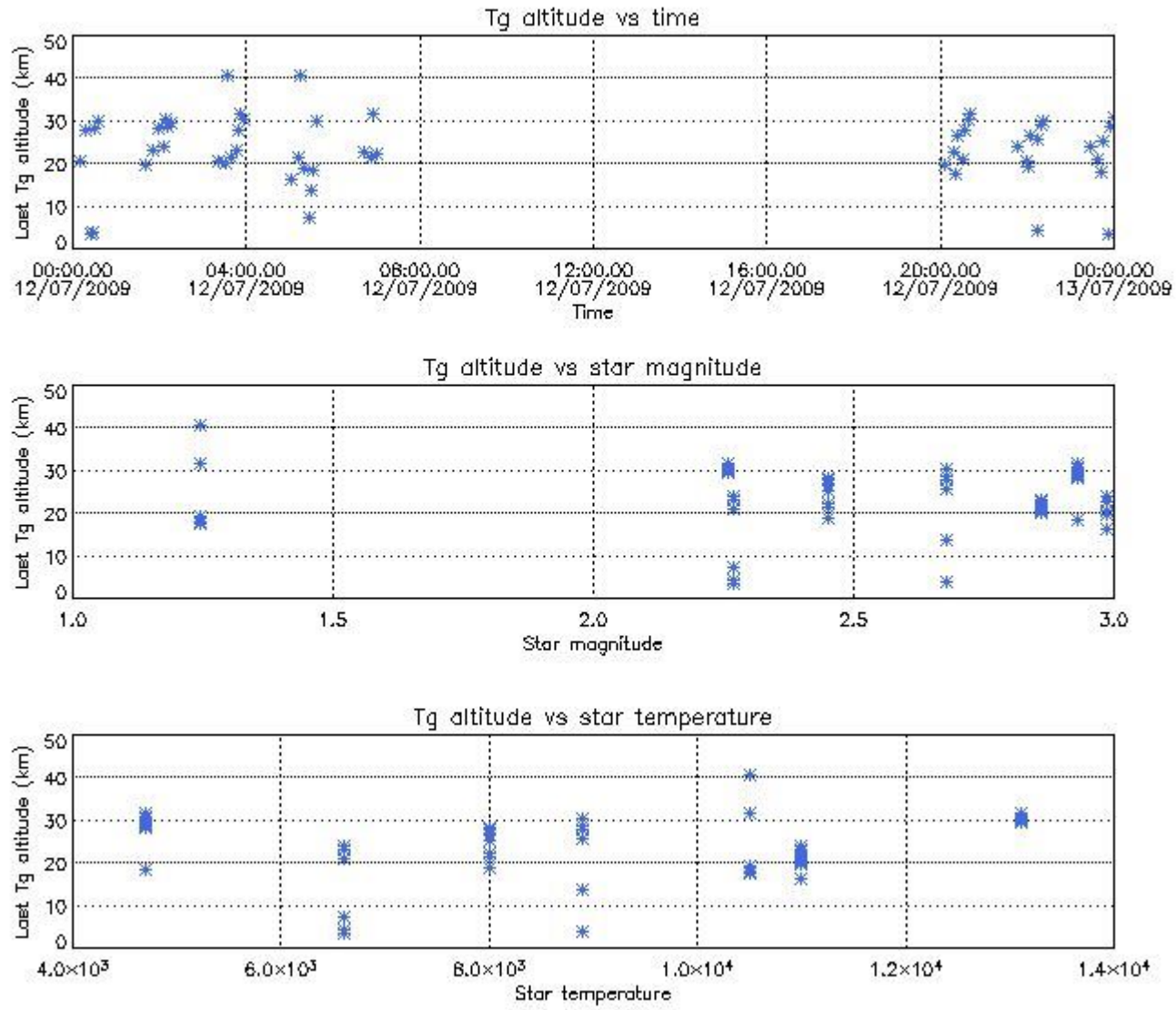
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

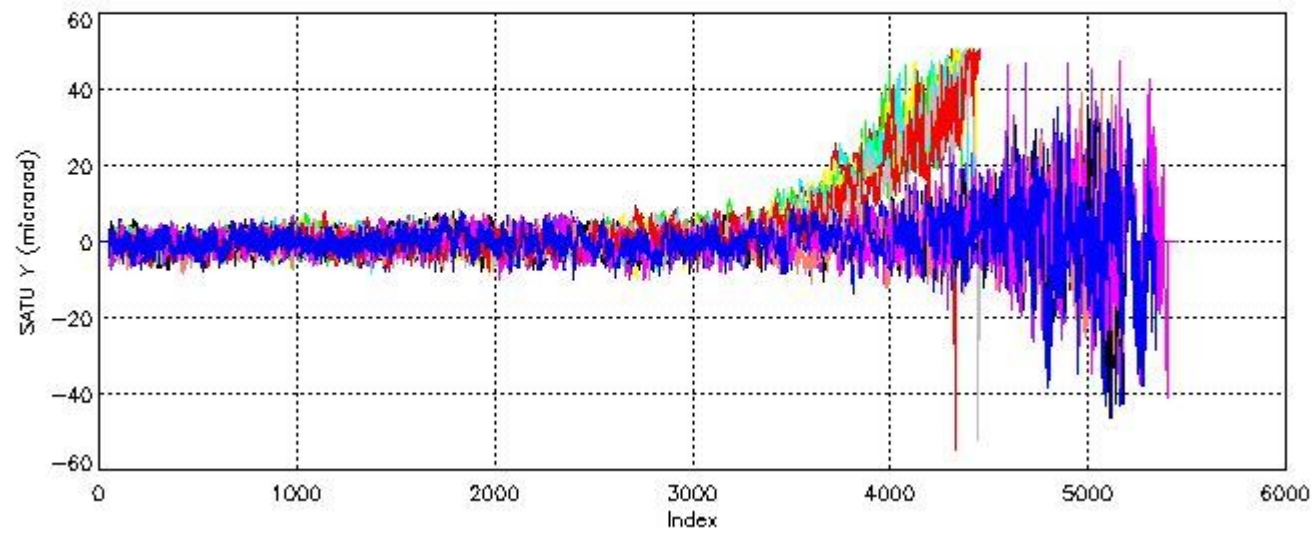
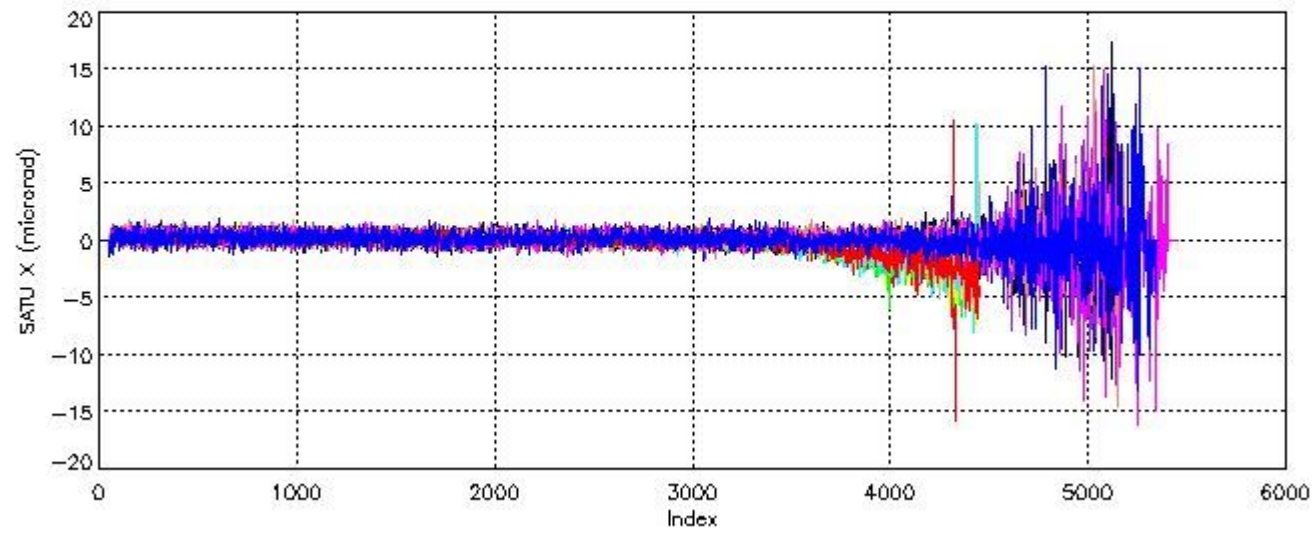


7. Star Acquisition and Tracking Unit (SATU)

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:	0.26597	-0.23681	0.25976	-0.18699
St. deviation:	0.37172	2.1642	1.0568	3.7721
Maximum:	1.9000	8.1000	15.500	13.500
Minimum:	-1.4000	-8.4000	-5.7000	-14.100

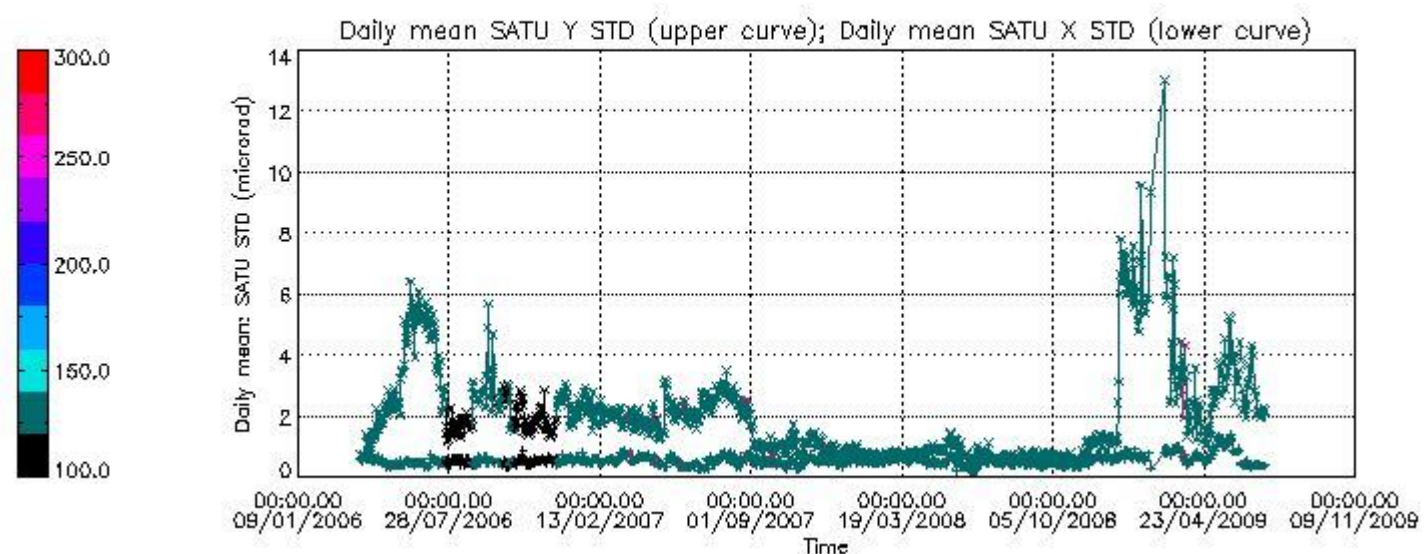
Number of data:	14150.	14150.	60150.	60150.
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7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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.

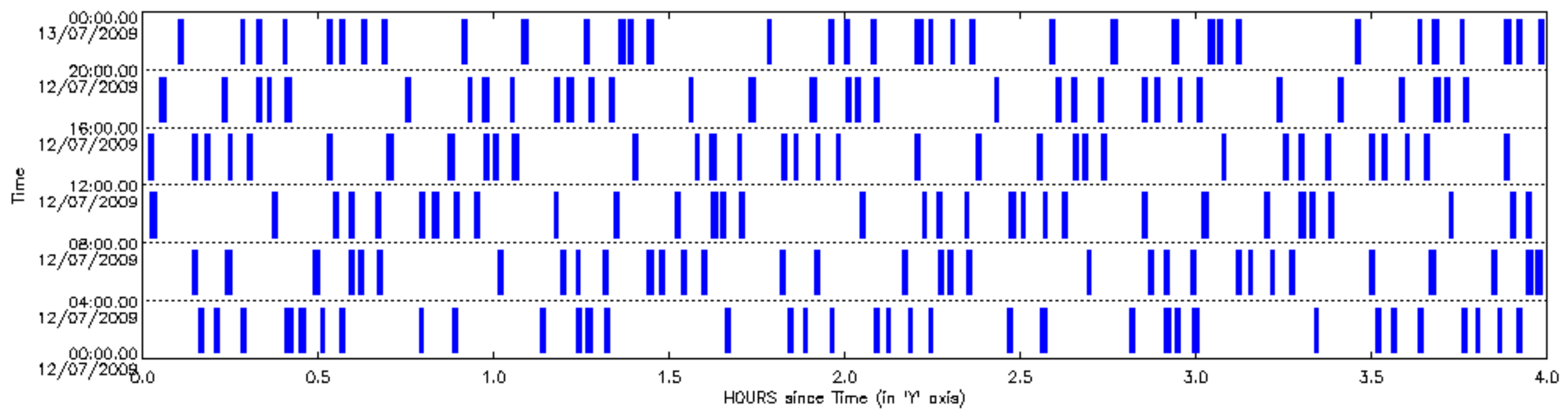
Upper curve: STD of SATU Y axis
Lower curve: STD of SATU X axis

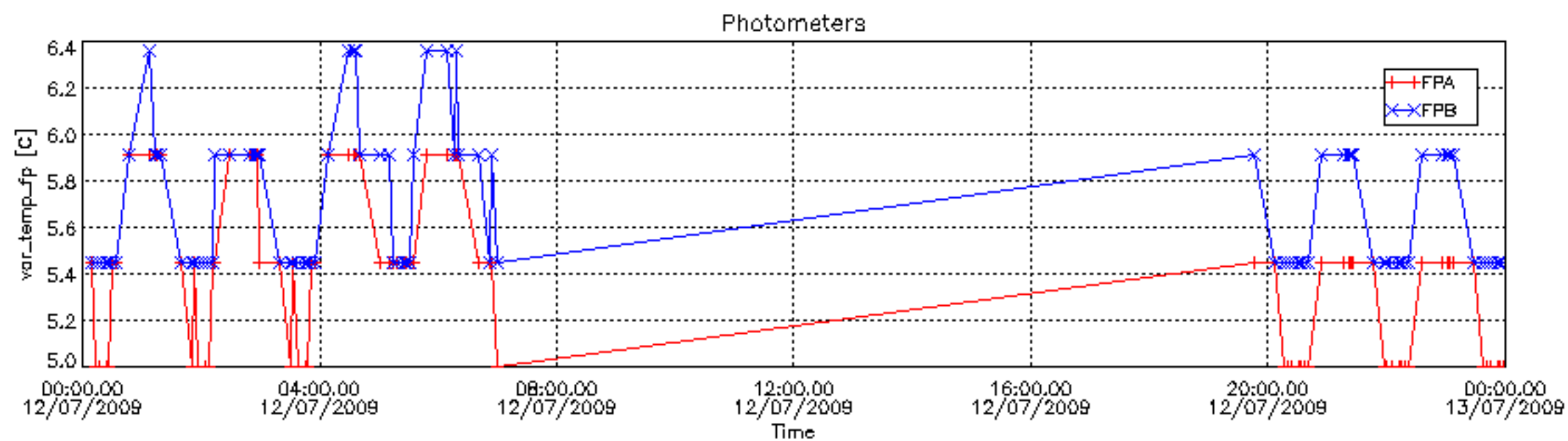
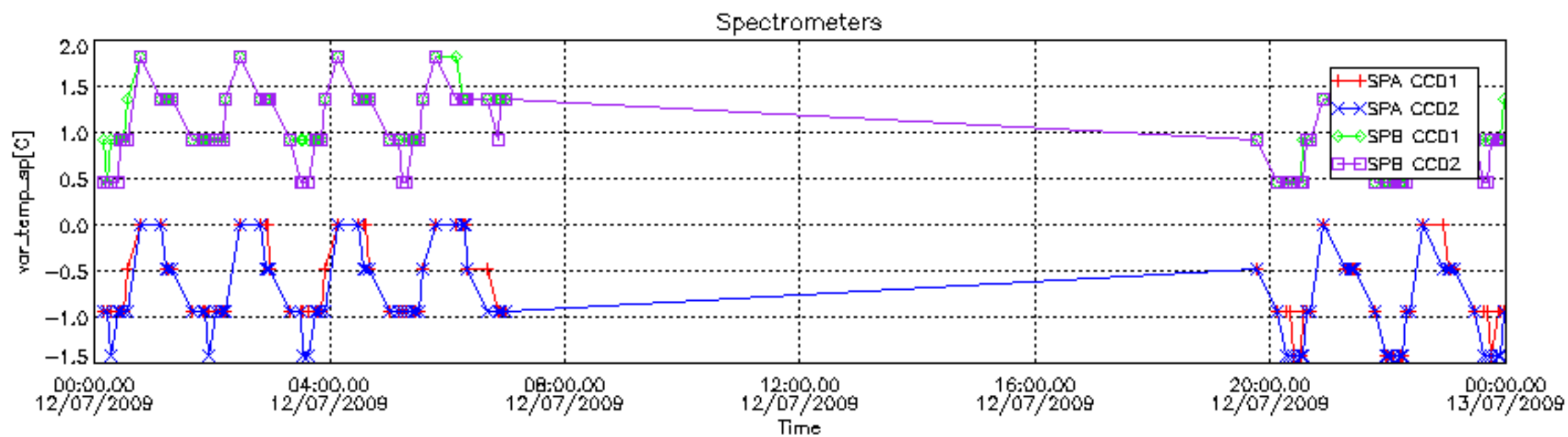


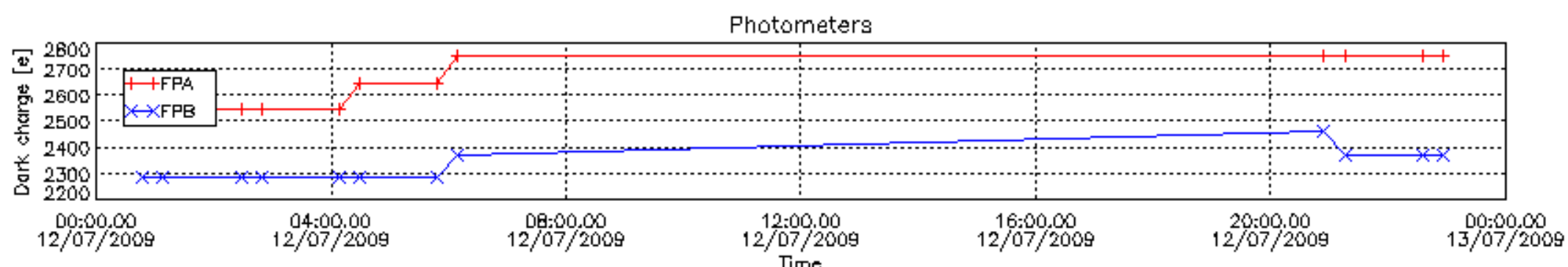
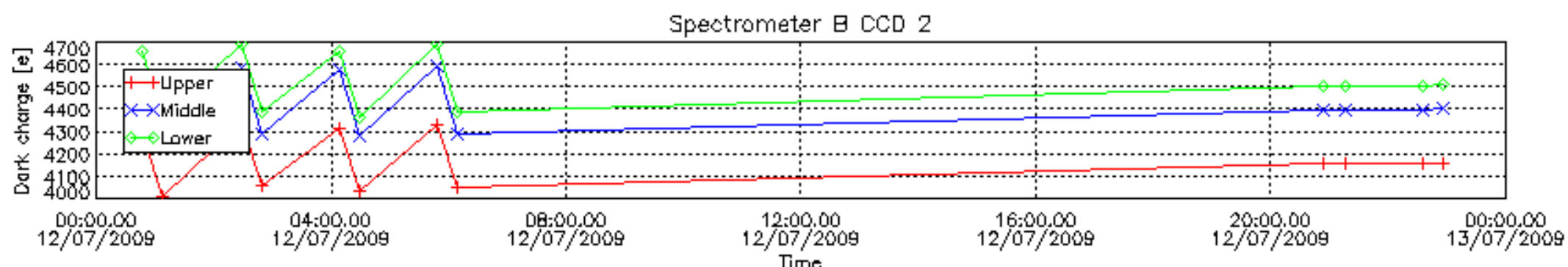
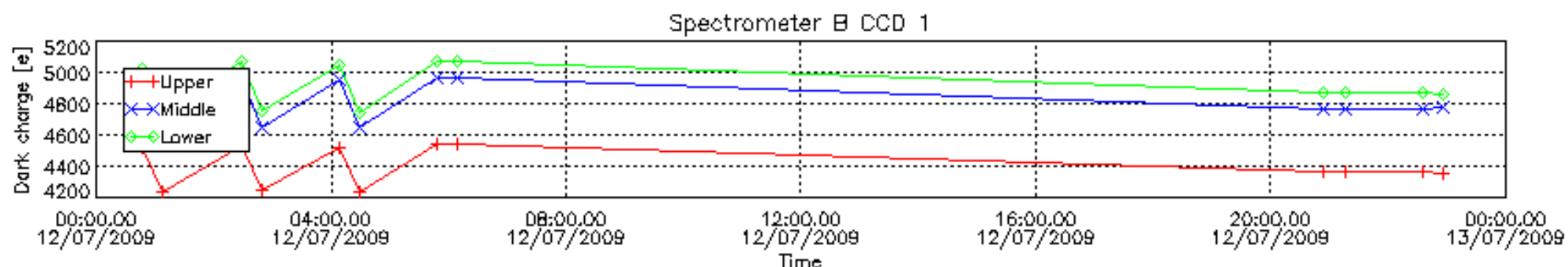
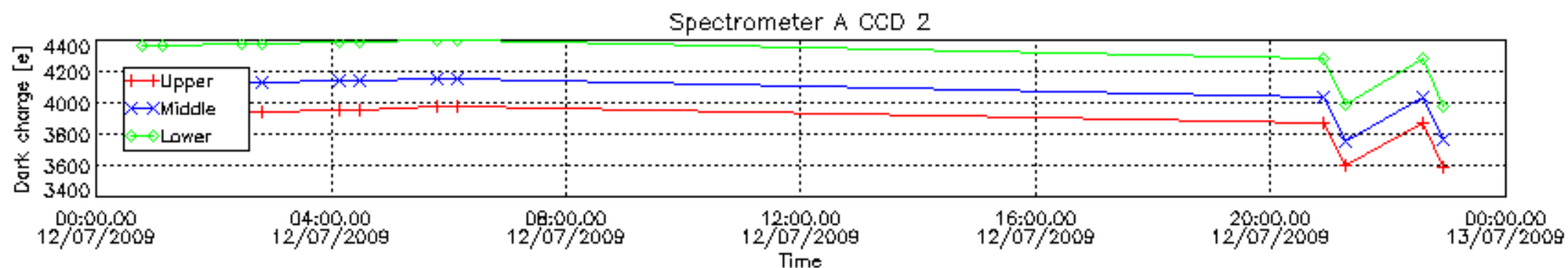
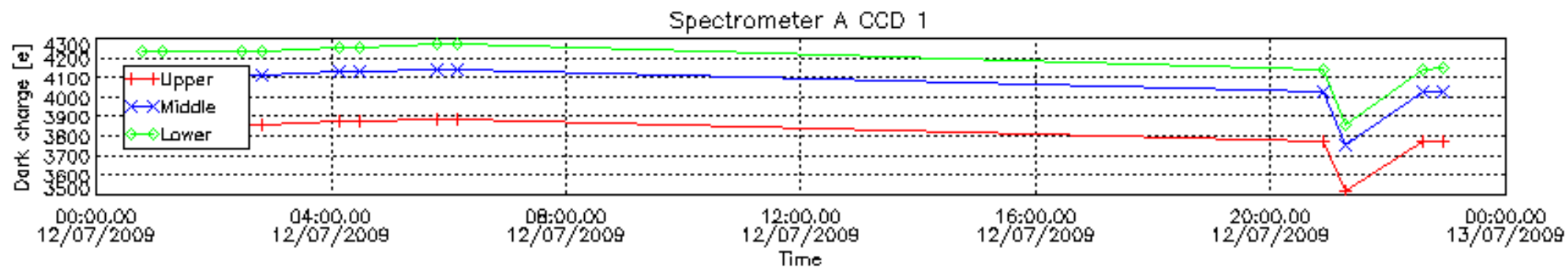
8. Auxiliary Data Files used for the production reported in section 2.4

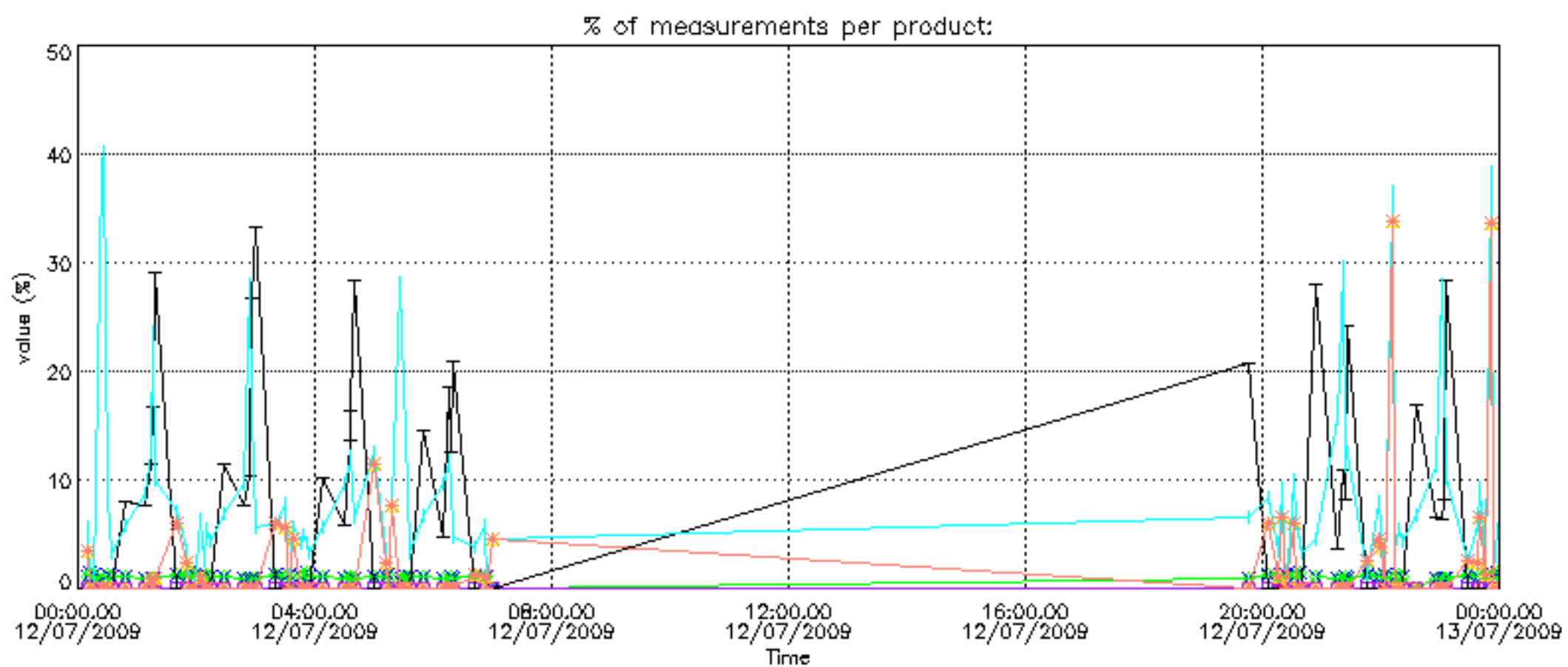
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	12-JUL-2009 00:09:38
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090708_092624_20090706_000000_20100101_000000	1	12-JUL-2009 00:09:38
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	12-JUL-2009 00:09:38
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	12-JUL-2009 00:09:38
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	12-JUL-2009 00:09:38
ECMWF_FILE	AUX_ECF_AXNECM20090711_064111_20090711_210000_20090712_090000	1	12-JUL-2009 00:09:38
ECMWF_FILE	AUX_ECF_AXNECM20090711_184110_20090712_030000_20090712_150000	30	12-JUL-2009 03:45:34
ECMWF_FILE	AUX_ECF_AXNECM20090712_064111_20090712_150000_20090713_030000	56	12-JUL-2009 19:45:37
ECMWF_FILE	AUX_ECF_AXNECM20090712_064112_20090712_210000_20090713_090000	79	12-JUL-2009 22:55:58
OPTIONAL_ECMWF_FILE	MISSING	1	12-JUL-2009 00:09:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090711_212429_000060572080_00372_38502_8333.N1	1	12-JUL-2009 00:09:38
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090711_231044_000057382080_00373_38503_8334.N1	9	12-JUL-2009 01:07:56
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090712_005141_000041442080_00374_38504_8335.N1	19	12-JUL-2009 02:10:54
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090712_020604_000054192080_00375_38505_8336.N1	30	12-JUL-2009 03:45:34
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090712_034143_000057382080_00376_38506_8337.N1	43	12-JUL-2009 05:26:09
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090712_194324_000038252080_00386_38516_8339.N1	56	12-JUL-2009 19:45:37
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090712_204709_000063762080_00386_38516_8340.N1	79	12-JUL-2009 22:55:58

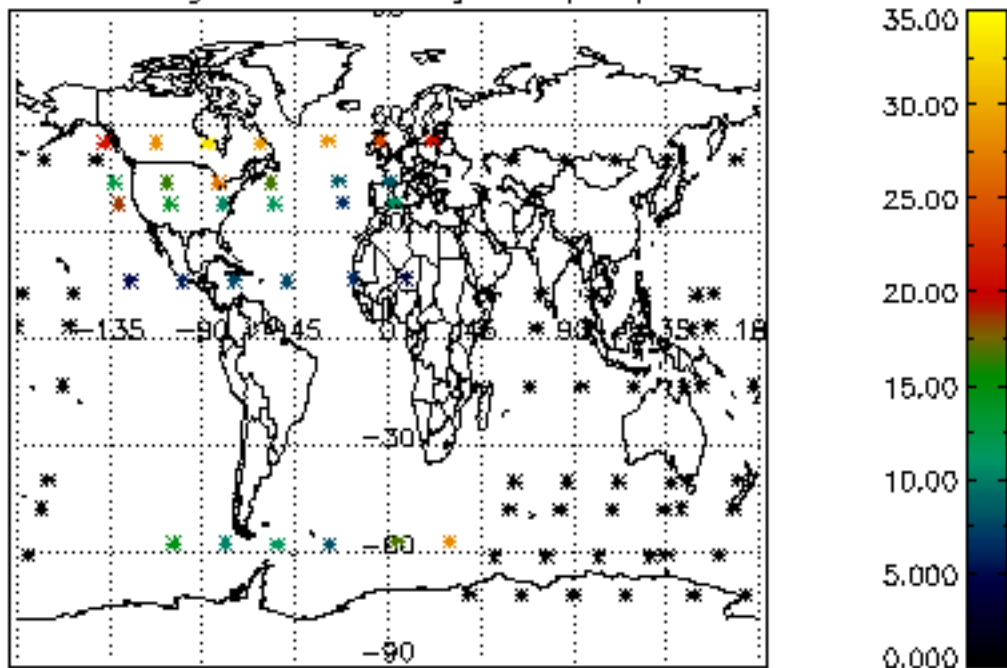




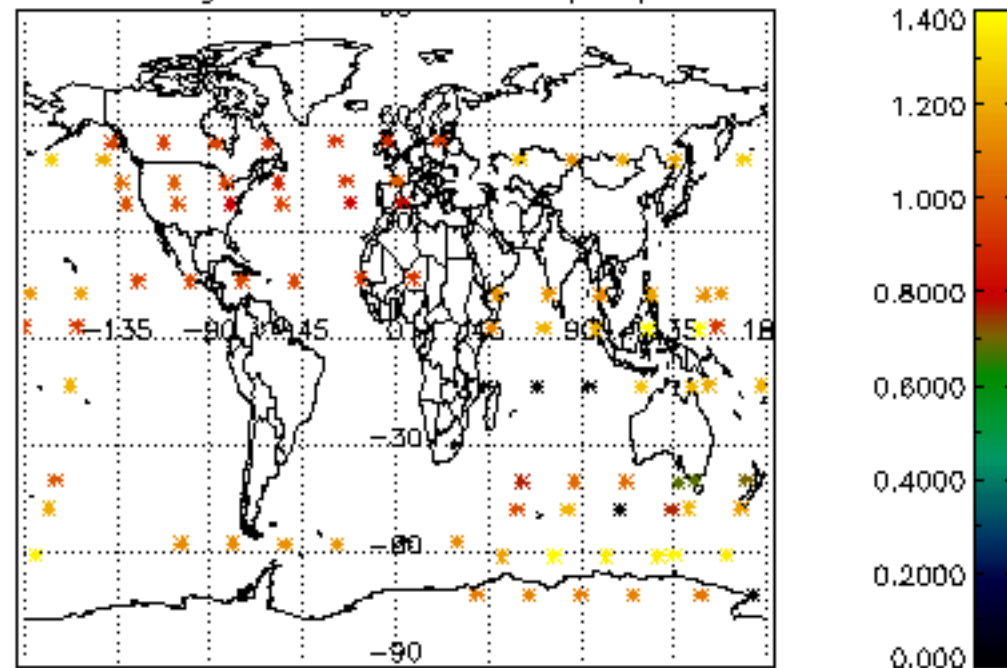




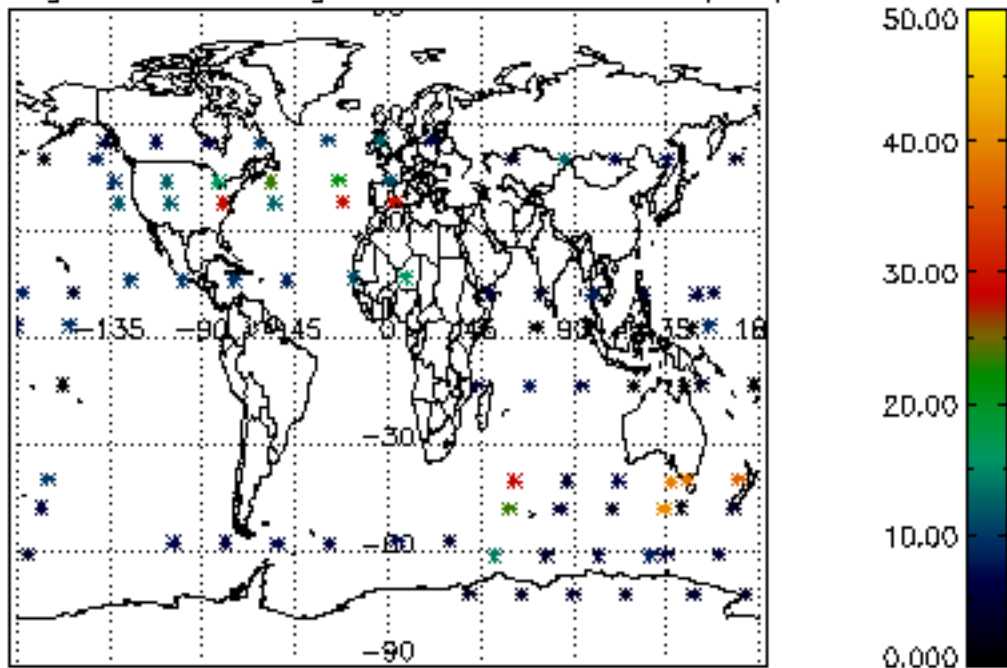
Percentage of cosmic ray hits per profile



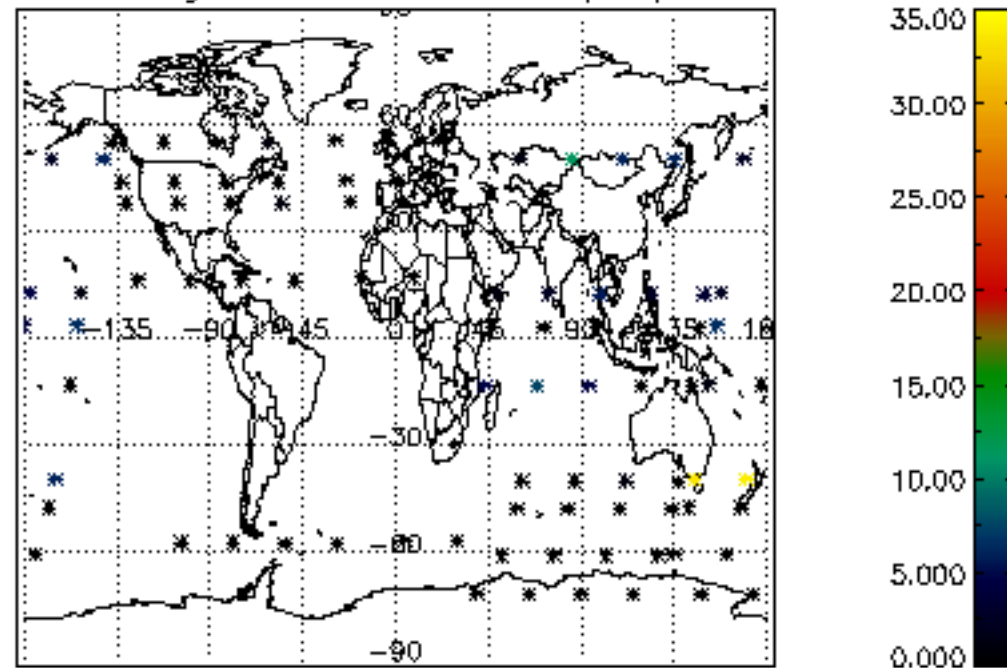
Percentage of datation errors per profile



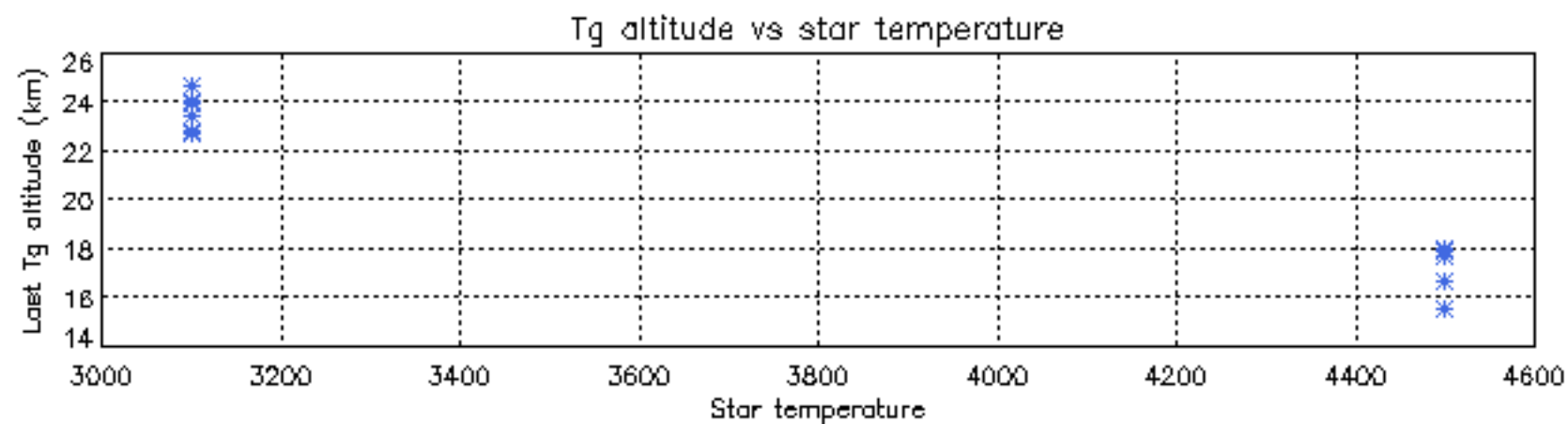
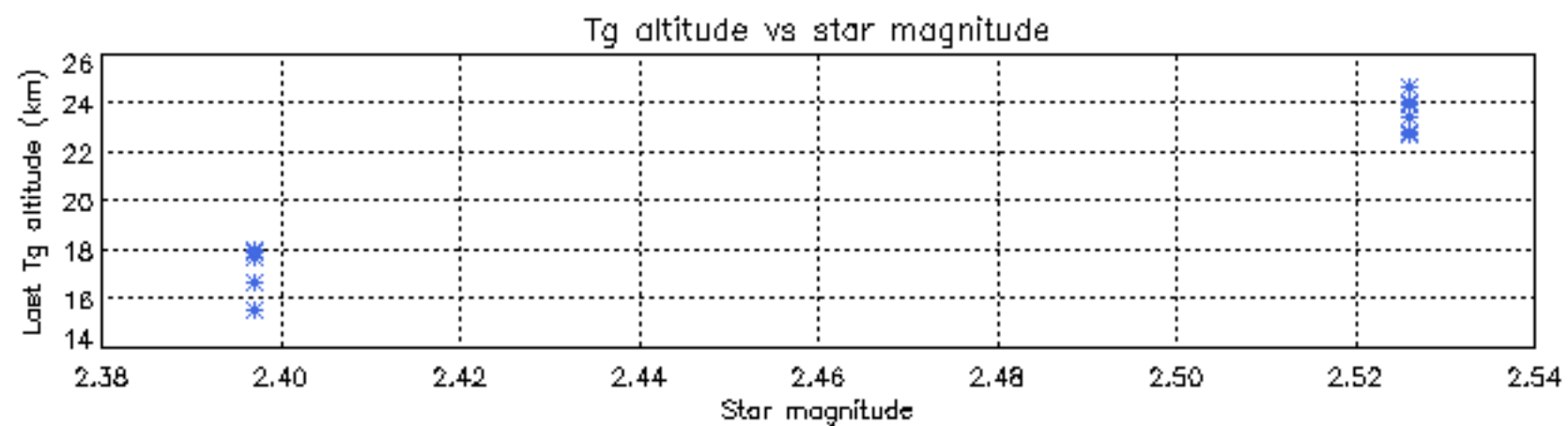
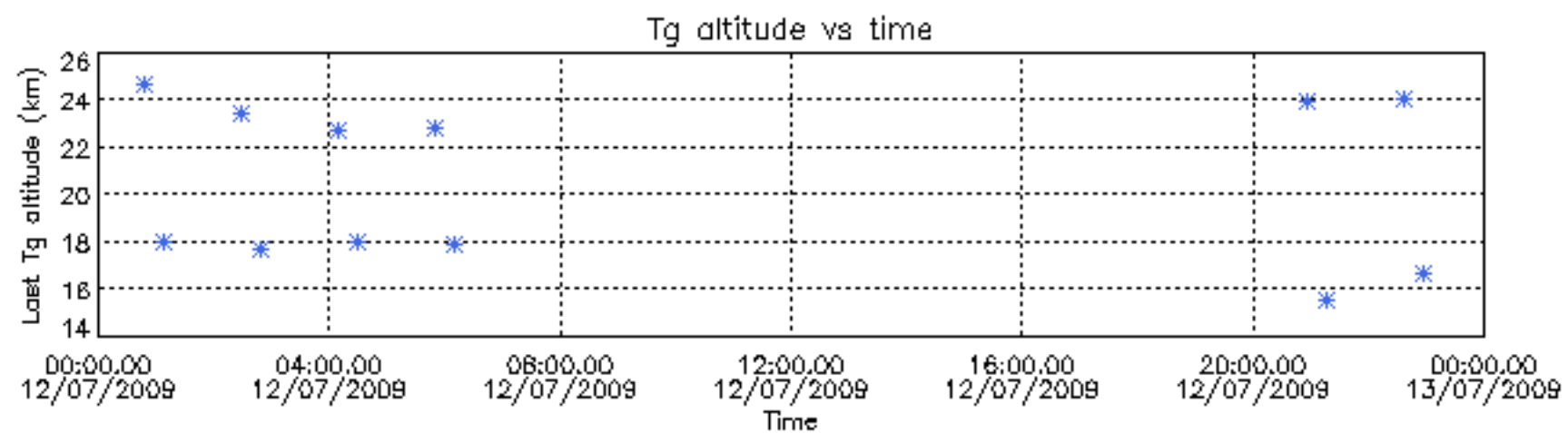
Percentage of star falling outside central band per profile



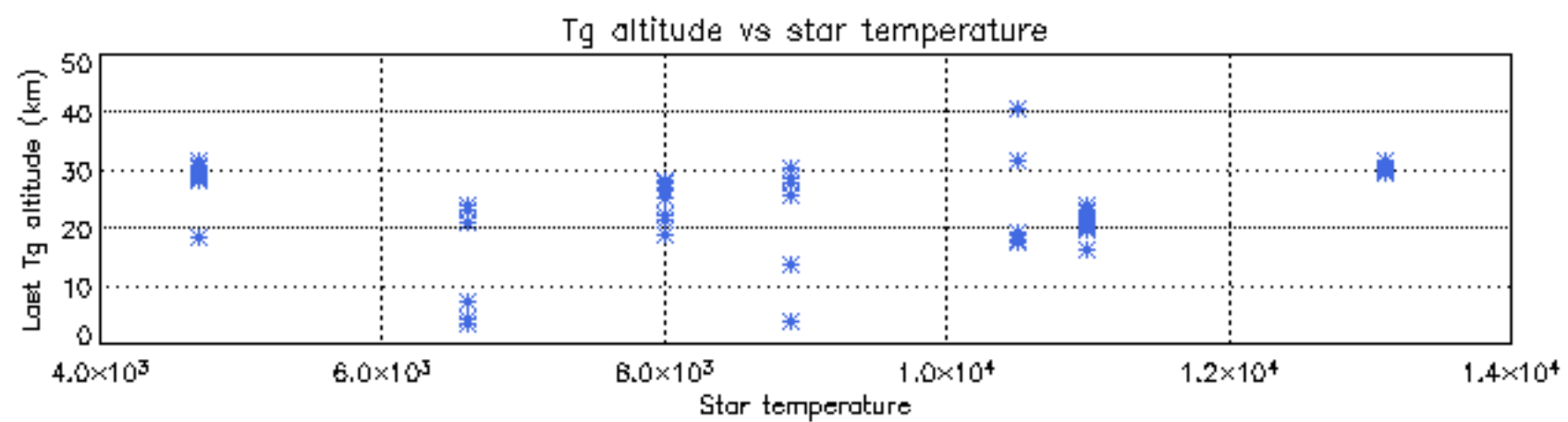
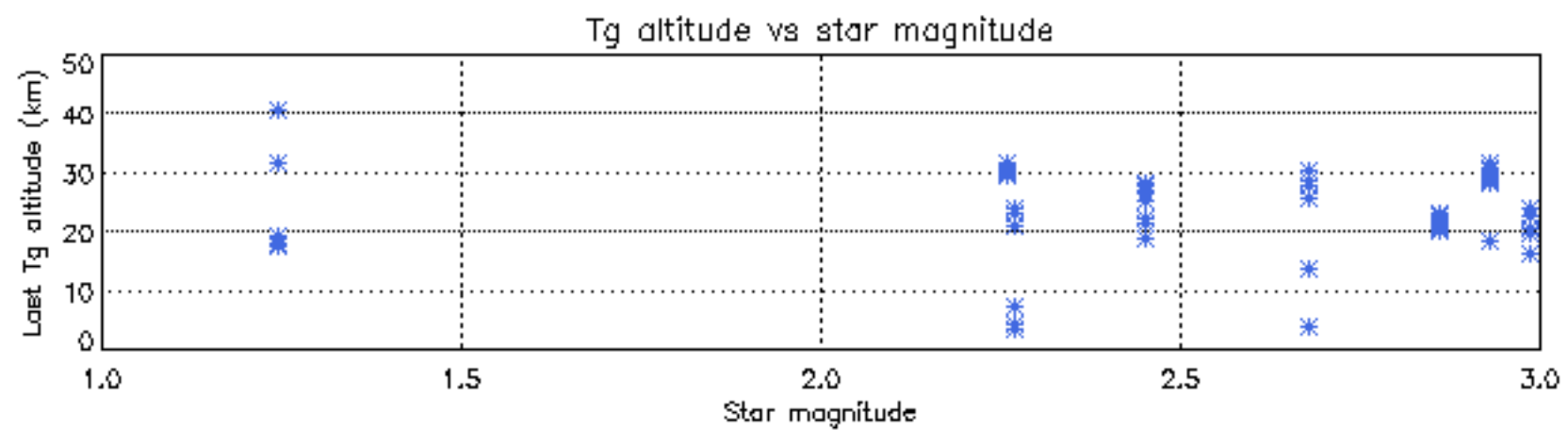
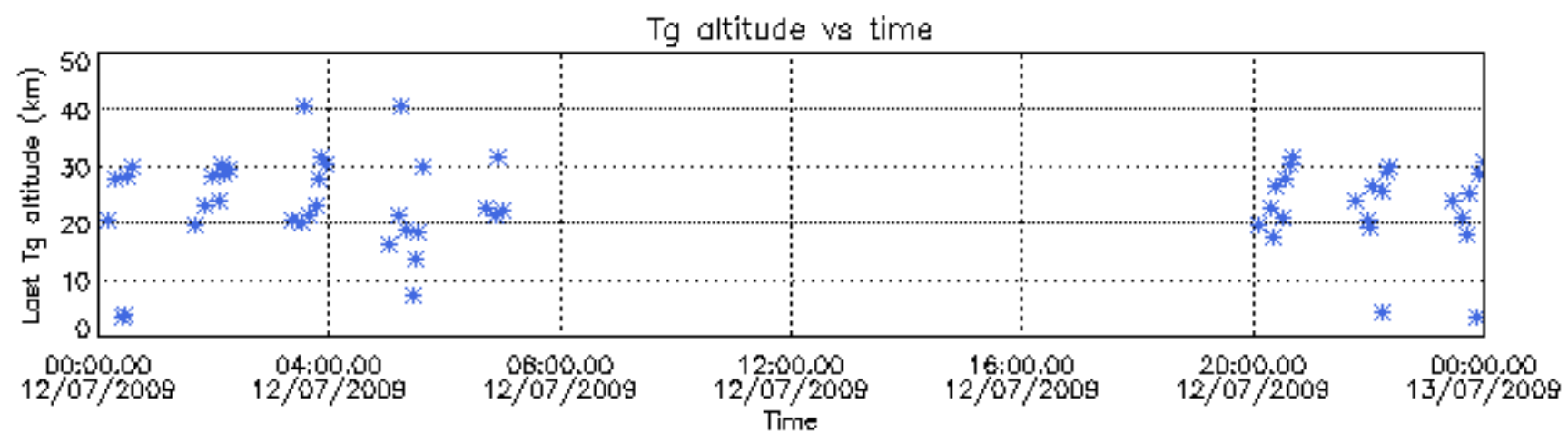
Percentage of saturation errors per profile

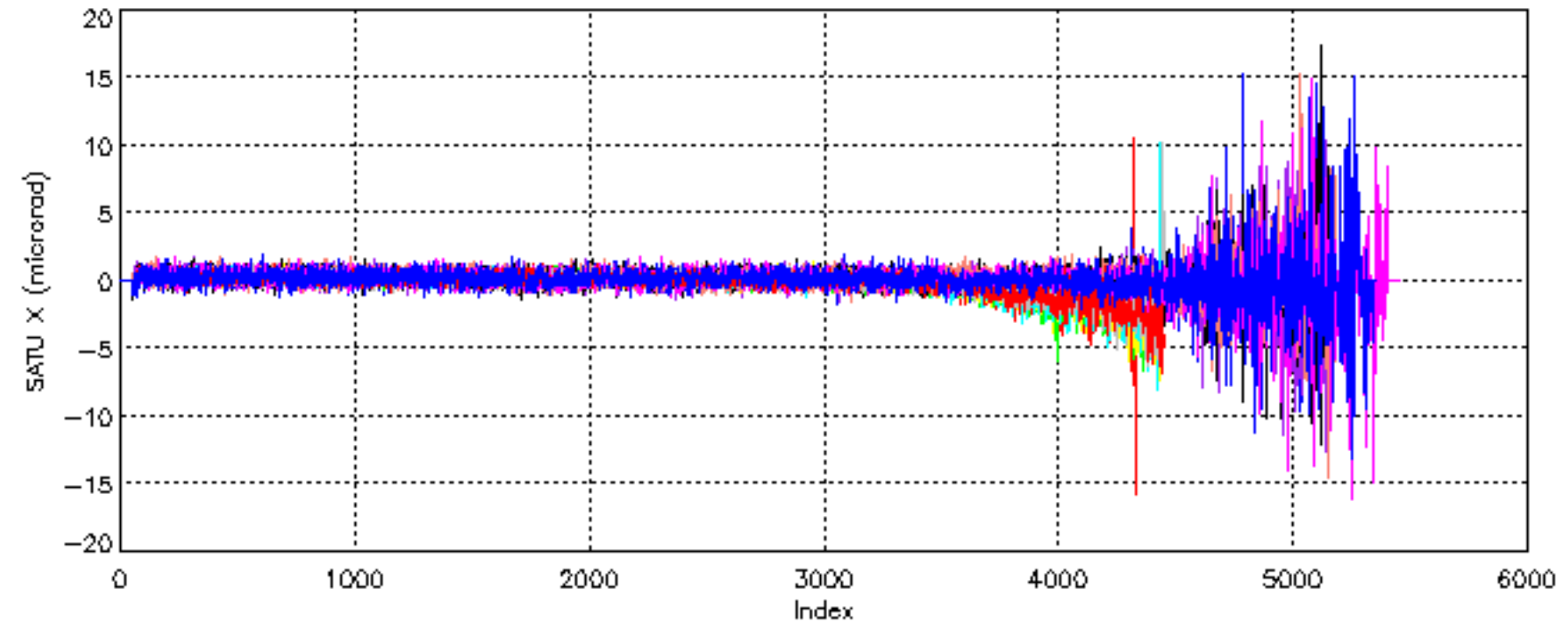


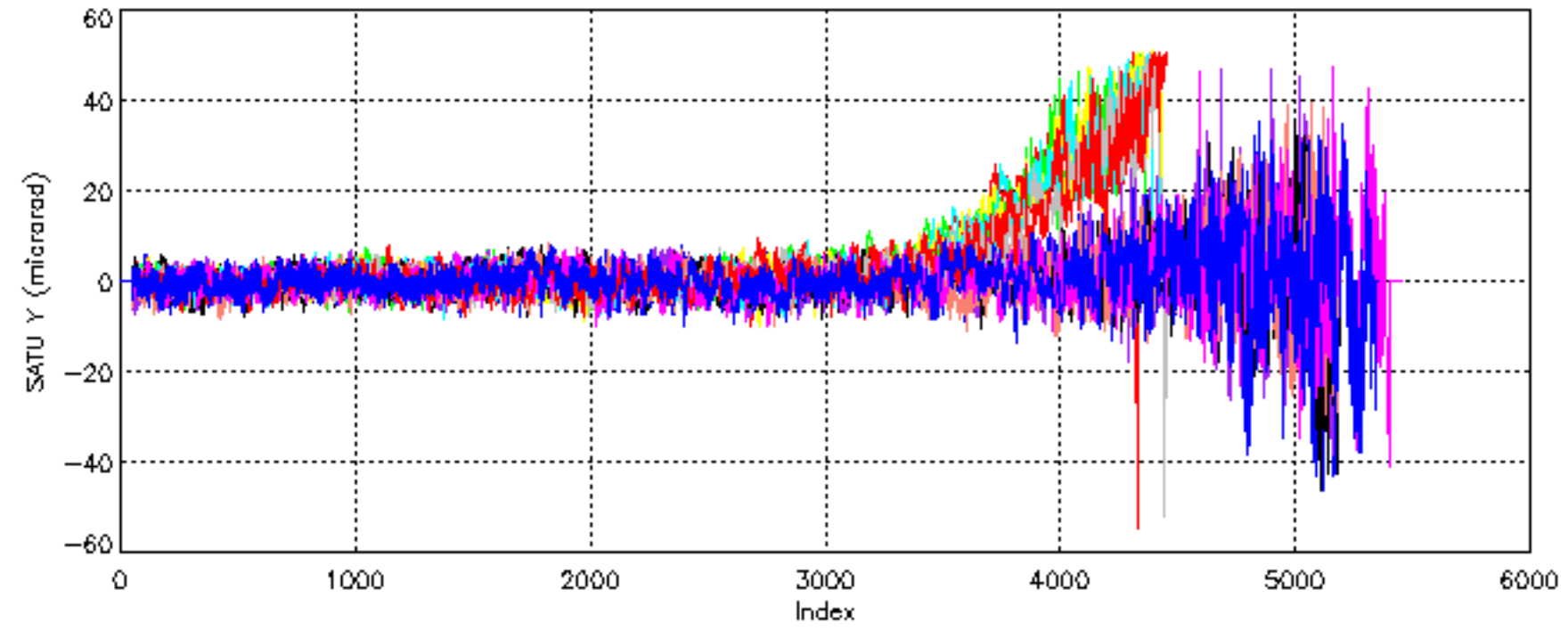
Tangent altitude at which the star is lost

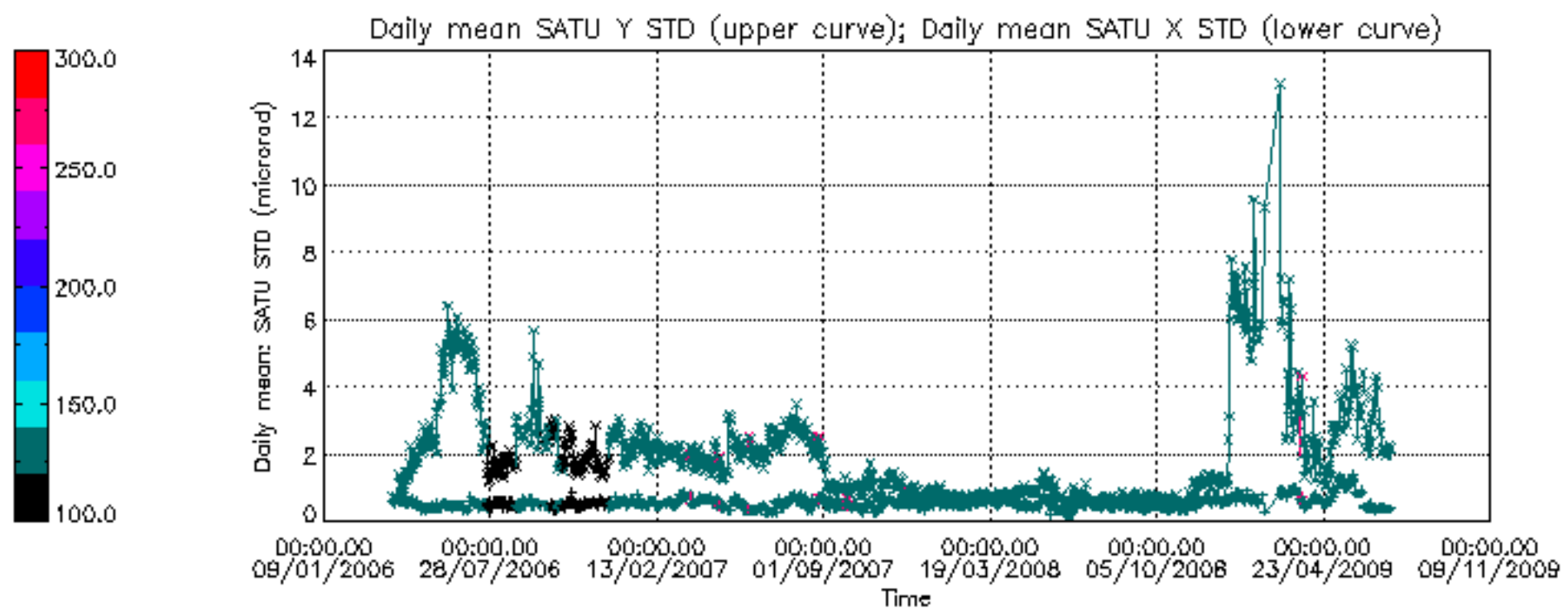


Tangent altitude at which the star is lost









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/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__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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 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
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 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
 7; 101.2; 01-JUL-2009 05:12:19; Dark ; 49.0; 84; Alp Phe ; 2.40; 4500;occ; 98; 0;38350
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11; 1481.8; 01-JUL-2009 05:35:20; Bright; 43.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 86; 0;38350
12; 2230.2; 01-JUL-2009 05:47:48; Bright; 49.5; 168; 17Zet Aql ; 2.99; 11000;occ; 99; 0;38350
13; 2650.4; 01-JUL-2009 05:54:48; Bright; 46.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 92; 0;38350
14; 2920.4; 01-JUL-2009 05:59:18; Bright; 49.0; 144; 18Del Cyg ; 2.86; 11000;occ; 98; 0;38350
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 6; 3778.7; 01-JUL-2009 21:19:00; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;38359
 7; 3874.0; 01-JUL-2009 21:20:35; Bright; 34.5; 110; 37Del Cas ; 2.68; 8900;occ; 69; 0;38359
 8; 4265.9; 01-JUL-2009 21:27:07; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38359
 9; 4425.8; 01-JUL-2009 21:29:47; Dark ; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;38359
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 4; 615.0; 01-JUL-2009 22:06:52; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38360
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 6; 1483.4; 01-JUL-2009 22:21:21; Bright; 41.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 83; 0;38360
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 13; 4265.9; 01-JUL-2009 23:07:43; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38360
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 4; 616.0; 01-JUL-2009 23:47:29; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38361
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 6; 1483.5; 02-JUL-2009 00:01:57; Bright; 40.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 80; 0;38361
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 9; 2910.7; 02-JUL-2009 00:25:44; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95; 0;38361
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 11; 3777.9; 02-JUL-2009 00:40:11; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;38361
 12; 3872.8; 02-JUL-2009 00:41:46; Bright; 35.0; 110; 37Del Cas ; 2.68; 8900;occ; 70; 0;38361
 13; 4265.7; 02-JUL-2009 00:48:19; Bright; 35.5; 73; 57Gam1And ; 2.26; 13100;occ; 71; 0;38361
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 5; 3782.9; 01-JUL-2009 07:54:17; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;38351
 6; 3876.3; 01-JUL-2009 07:55:50; Bright; 35.5; 110; 37Del Cas ; 2.68; 8900;occ; 71; 0;38351
 7; 4266.5; 01-JUL-2009 08:02:20; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38351
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 4; -519.1; 02-JUL-2009 02:49:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38362
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 6; 502.5; 02-JUL-2009 03:06:47; Dark ; 55.0; 63; Bet Gru ; 2.15; 2800;occ; 110; 0;38363
 7; 617.7; 02-JUL-2009 03:08:42; Dark ; 52.5; 31; Alp Gru ; 1.73; 15200;occ; 105; 0;38363

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9; 1484.2; 02-JUL-2009 03:23:09; Bright; 51.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 102; 0;38363
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5; 805.1; 02-JUL-2009 21:38:25; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38374
6; 1486.1; 02-JUL-2009 21:49:46; Bright; 43.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 87; 0;38374
7; 2217.8; 02-JUL-2009 22:01:58; Bright; 69.0; 168; 17Zet Aql ; 2.99; 11000;occ; 138; 0;38374
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11; 3770.7; 02-JUL-2009 22:27:51; Bright; 43.0; 74; 11Bet Cas ; 2.27; 6600;occ; 86; 0;38374
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13; 4264.7; 02-JUL-2009 22:36:05; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;38374
14; 4426.9; 02-JUL-2009 22:38:47; Dark ; 37.0; 173; 4Bet Tri ; 3.00; 8900;occ; 74; 0;38374
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13; 4264.7; 03-JUL-2009 00:16:41; Bright; 37.0; 73; 57Gam1And ; 2.26; 13100;occ; 74; 0;38375
14; 4426.8; 03-JUL-2009 00:19:23; Dark ; 37.5; 173; 4Bet Tri ; 3.00; 8900;occ; 75; 0;38375
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7; 117.8; 02-JUL-2009 08:02:11; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;38366
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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12; 6542.2; 02-JUL-2009 09:49:15; Dark ; 68.0; 63; Bet Gru ; 2.15; 2800;occ; 136; 0;38366
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
 5; 3773.5; 02-JUL-2009 14:04:54; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 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
12; 6545.2; 02-JUL-2009 14:51:06; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;38369
13; 6660.0; 02-JUL-2009 14:53:00; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38369
14; 6836.8; 02-JUL-2009 14:55:57; Dark ; 57.5; 172; Gam Gru ; 3.00; 13100;occ; 115; 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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7; 2210.9; 03-JUL-2009 23:10:50; Bright; 45.0; 168; 17Zet Aql ; 2.99; 11000;occ; 90; 0;38389
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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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 8; 4429.4; 05-JUL-2009 12:40:59; Dark ; 39.5; 173; 4Bet Tri ; 3.00; 8900;occ; 79; 0;38411
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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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16; 4627.7; 16-JUL-2009 23:42:29; Dark ; 42.0; 146; 25Eta Tau ; 2.87; 15200;occ; 84; 0;38575
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6; 2099.8; 17-JUL-2009 00:40:57; Bright; 44.0; 11; 53Alp Aql ; 0.76; 8000;occ; 88; 0;38576
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14; 6722.9; 16-JUL-2009 10:52:37; Dark ; 62.5; 63; Bet Gru ; 2.15; 2800;occ; 125; 0;38567

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4; 3203.1; 16-JUL-2009 13:15:09; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38569
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6; 3765.0; 16-JUL-2009 13:24:31; Bright; 57.5; 68; 18Alp Cas ; 2.22; 4500;occ; 115; 0;38569
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12; 5456.8; 16-JUL-2009 13:52:43; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38569
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4; 3202.8; 16-JUL-2009 14:55:44; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;38570
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14; 6727.2; 16-JUL-2009 19:15:41; Dark ; 50.5; 63; Bet Gru ; 2.15; 2800;occ; 101; 0;38572

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15; 6821.7; 16-JUL-2009 19:17:15; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 0;38572
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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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16; 6508.4; 24-JUL-2009 09:57:18; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38681
17; 6893.8; 24-JUL-2009 10:03:43; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38681
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 4; 3141.9; 24-JUL-2009 10:41:47; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38682
 5; 3565.4; 24-JUL-2009 10:48:51; Bright; 51.5; 74; 11Bet Cas ; 2.27; 6600;occ; 103; 0;38682
 6; 3668.0; 24-JUL-2009 10:50:34; Bright; 49.5; 76; 27Gam Cas ; 2.30; 30000;occ; 99; 0;38682
 7; 4013.2; 24-JUL-2009 10:56:19; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;38682
 8; 4103.2; 24-JUL-2009 10:57:49; Bright; 44.5; 35; 33Alp Per ; 1.79; 6250;occ; 89; 0;38682
 9; 4317.2; 24-JUL-2009 11:01:23; Bright; 42.0; 149; 45Eps Per ; 2.89; 30000;occ; 84; 0;38682
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11; 4656.8; 24-JUL-2009 11:07:02; Dark ; 49.5; 146; 25Eta Tau ; 2.87; 15200;occ; 99; 0;38682
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14; 5579.9; 24-JUL-2009 11:22:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38682
15; 5915.2; 24-JUL-2009 11:28:01; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;38682
16; 6509.5; 24-JUL-2009 11:37:55; Dark ; 54.0; 84; Alp Phe ; 2.40; 4500;occ; 108; 0;38682
17; 6894.4; 24-JUL-2009 11:44:20; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38682
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 5; 3564.5; 24-JUL-2009 12:29:26; Bright; 47.5; 74; 11Bet Cas ; 2.27; 6600;occ; 95; 0;38683
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 7; 4012.9; 24-JUL-2009 12:36:54; Bright; 61.5; 160; 23Gam Per ; 2.93; 4700;occ; 123; 0;38683
 8; 4103.0; 24-JUL-2009 12:38:24; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38683
 9; 4317.3; 24-JUL-2009 12:41:59; Bright; 41.0; 149; 45Eps Per ; 2.89; 30000;occ; 82; 0;38683
10; 4486.5; 24-JUL-2009 12:44:48; Dark ; 47.5; 150; 44Zet Per ; 2.89; 28000;occ; 95; 0;38683
11; 4656.9; 24-JUL-2009 12:47:38; Dark ; 48.0; 146; 25Eta Tau ; 2.87; 15200;occ; 96; 0;38683
12; 4752.3; 24-JUL-2009 12:49:14; Dark ; 52.5; 13; 87Alp Tau ; 0.87; 3800;occ; 105; 0;38683
13; 5358.8; 24-JUL-2009 12:59:20; Dark ; 49.5; 165; 34Gam Eri ; 2.95; 3200;occ; 99; 0;38683
14; 5581.1; 24-JUL-2009 13:03:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38683
15; 5916.3; 24-JUL-2009 13:08:38; Dark ; 42.0; 157; The1Eri ; 2.91; 9300;occ; 84; 0;38683
16; 6510.7; 24-JUL-2009 13:18:32; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38683
17; 6895.0; 24-JUL-2009 13:24:56; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;38683
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 3; 2825.6; 24-JUL-2009 13:57:43; Bright; 65.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 130; 0;38684
 4; 3563.9; 24-JUL-2009 14:10:01; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;38684
 5; 3666.8; 24-JUL-2009 14:11:44; Bright; 51.5; 76; 27Gam Cas ; 2.30; 30000;occ; 103; 0;38684
 6; 4012.6; 24-JUL-2009 14:17:30; Bright; 65.0; 160; 23Gam Per ; 2.93; 4700;occ; 130; 0;38684

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 9; 4486.7; 24-JUL-2009 14:25:24; Dark ; 48.5; 150; 44Zet Per ; 2.89; 28000;occ; 97; 0;38684
 10; 4657.4; 24-JUL-2009 14:28:15; Dark ; 50.0; 146; 25Eta Tau ; 2.87; 15200;occ; 100; 0;38684
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 12; 5359.6; 24-JUL-2009 14:39:57; Dark ; 50.5; 165; 34Gam Eri ; 2.95; 3200;occ; 101; 0;38684
 13; 5582.4; 24-JUL-2009 14:43:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38684
 14; 5916.9; 24-JUL-2009 14:49:14; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;38684
 15; 6511.9; 24-JUL-2009 14:59:09; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38684
 16; 6895.7; 24-JUL-2009 15:05:33; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;38684
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 3; 2825.1; 24-JUL-2009 15:38:18; Bright; 51.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 102; 0;38685
 4; 3140.7; 24-JUL-2009 15:43:34; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;38685
 5; 3563.1; 24-JUL-2009 15:50:36; Bright; 50.0; 74; 11Bet Cas ; 2.27; 6600;occ; 100; 0;38685
 6; 3666.3; 24-JUL-2009 15:52:20; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;38685
 7; 4012.4; 24-JUL-2009 15:58:06; Bright; 44.0; 160; 23Gam Per ; 2.93; 4700;occ; 88; 0;38685
 8; 4102.9; 24-JUL-2009 15:59:36; Bright; 44.0; 35; 33Alp Per ; 1.79; 6250;occ; 88; 0;38685
 9; 4317.4; 24-JUL-2009 16:03:11; Bright; 41.5; 149; 45Eps Per ; 2.89; 30000;occ; 83; 0;38685
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 11; 4657.8; 24-JUL-2009 16:08:51; Dark ; 49.0; 146; 25Eta Tau ; 2.87; 15200;occ; 98; 0;38685
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 13; 5360.3; 24-JUL-2009 16:20:34; Dark ; 48.5; 165; 34Gam Eri ; 2.95; 3200;occ; 97; 0;38685
 14; 5583.8; 24-JUL-2009 16:24:17; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38685
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 16; 6513.0; 24-JUL-2009 16:39:46; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38685
 17; 6896.3; 24-JUL-2009 16:46:10; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38685
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 3; 2824.5; 24-JUL-2009 17:18:54; Bright; 45.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 91; 0;38686
 4; 3140.0; 24-JUL-2009 17:24:09; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38686
 5; 3562.4; 24-JUL-2009 17:31:12; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38686
 6; 3665.8; 24-JUL-2009 17:32:55; Bright; 49.0; 76; 27Gam Cas ; 2.30; 30000;occ; 98; 0;38686
 7; 4012.2; 24-JUL-2009 17:38:41; Bright; 65.0; 160; 23Gam Per ; 2.93; 4700;occ; 130; 0;38686
 8; 4102.7; 24-JUL-2009 17:40:12; Bright; 44.5; 35; 33Alp Per ; 1.79; 6250;occ; 89; 0;38686
 9; 4289.2; 24-JUL-2009 17:43:18; Bright; 52.0; 79; 26Bet Per ; 2.31; 13100;occ; 104; 0;38686
 10; 4487.0; 24-JUL-2009 17:46:36; Dark ; 49.0; 150; 44Zet Per ; 2.89; 28000;occ; 98; 0;38686
 11; 4658.1; 24-JUL-2009 17:49:27; Dark ; 51.0; 146; 25Eta Tau ; 2.87; 15200;occ; 102; 0;38686
 12; 4753.5; 24-JUL-2009 17:51:03; Dark ; 58.0; 13; 87Alp Tau ; 0.87; 3800;occ; 116; 0;38686
 13; 5361.1; 24-JUL-2009 18:01:10; Dark ; 47.5; 165; 34Gam Eri ; 2.95; 3200;occ; 95; 0;38686
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 16; 6514.3; 24-JUL-2009 18:20:24; Dark ; 63.0; 84; Alp Phe ; 2.40; 4500;occ; 126; 0;38686
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 3; 2646.0; 24-JUL-2009 18:56:31; Bright; 48.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 97; 0;38687
 4; 2823.9; 24-JUL-2009 18:59:29; Bright; 59.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 119; 0;38687
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 6; 3561.5; 24-JUL-2009 19:11:47; Bright; 54.0; 74; 11Bet Cas ; 2.27; 6600;occ; 108; 0;38687
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 17; 6515.4; 24-JUL-2009 20:01:01; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38687
 18; 6897.5; 24-JUL-2009 20:07:23; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;38687
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 5; 863.3; 25-JUL-2009 01:09:12; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;38691
 6; 1055.5; 25-JUL-2009 01:12:24; Dark ; 47.0; 172; Gam Gru ; 3.00; 13100;occ; 94; 0;38691
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 12; 3662.6; 25-JUL-2009 01:55:51; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;38691
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 18; 4754.9; 25-JUL-2009 02:14:04; Dark ; 48.0; 13; 87Alp Tau ; 0.87; 3800;occ; 96; 0;38691

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 9; 2820.6; 25-JUL-2009 03:22:25; Bright; 42.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 85; 0;38692
 10; 3137.2; 25-JUL-2009 03:27:42; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;38692
 11; 3557.6; 25-JUL-2009 03:34:42; Bright; 33.5; 74; 11Bet Cas ; 2.27; 6600;occ; 67; 0;38692

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 4; -1934.5; 25-JUL-2009 03:43:46; Bright; 47.0; 35; 33Alp Per ; 1.79; 6250;occ; 94; 0;38692
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 13; 1057.3; 25-JUL-2009 06:14:14; Dark ; 47.0; 172; Gam Gru ; 3.00; 13100;occ; 94; 0;38694
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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
17; 6919.9; 27-JUL-2009 11:50:30; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 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
5; 3531.0; 27-JUL-2009 12:34:37; Bright; 51.5; 74; 11Bet Cas ; 2.27; 6600;occ; 103; 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
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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
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 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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 6; 1079.7; 28-JUL-2009 02:59:09; Dark ; 48.0; 172; Gam Gru ; 3.00; 13100;occ; 96; 0;38735
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11; 4500.9; 31-JUL-2009 17:26:43; Dark ; 54.0; 150; 44Zet Per ; 2.89; 28000;occ; 108; 0;38786
12; 4787.9; 31-JUL-2009 17:31:30; Dark ; 58.5; 13; 87Alp Tau ; 0.87; 3800;occ; 117; 0;38786
13; 5285.0; 31-JUL-2009 17:39:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38786
14; 5443.3; 31-JUL-2009 17:42:26; Dark ; 60.5; 165; 34Gam Eri ; 2.95; 3200;occ; 121; 0;38786
15; 6008.3; 31-JUL-2009 17:51:51; Dark ; 48.5; 157; The1Eri ; 2.91; 9300;occ; 97; 0;38786
16; 6624.8; 31-JUL-2009 18:02:07; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38786
17; 6953.5; 31-JUL-2009 18:07:36; Dark ; 42.5; 31; Alp Gru ; 1.73; 15200;occ; 85; 0;38786
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDK20090731_180748_000060672081_00156_38787_4620.N1
 1; 929.5; 31-JUL-2009 18:07:48; Dark ; 43.0; 31; Alp Gru ; 1.73; 15200;occ; 86; 24;38787
 2; 1106.1; 31-JUL-2009 18:10:44; Dark ; 46.0; 172; Gam Gru ; 3.00; 13100;occ; 92; 0;38787
 3; 1569.8; 31-JUL-2009 18:18:28; Bright; 54.0; 142; 49Del Cap ; 2.85; 8900;occ; 108; 0;38787
 4; 1824.9; 31-JUL-2009 18:22:43; Bright; 47.0; 154; 22Bet Aqr ; 2.90; 5700;occ; 94; 0;38787
 5; 2581.7; 31-JUL-2009 18:35:20; Bright; 55.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 111; 0;38787
 6; 2768.3; 31-JUL-2009 18:38:27; Bright; 42.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 84; 0;38787
 7; 3092.7; 31-JUL-2009 18:43:51; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;38787
 8; 3482.3; 31-JUL-2009 18:50:21; Bright; 48.0; 74; 11Bet Cas ; 2.27; 6600;occ; 96; 0;38787
 9; 3599.6; 31-JUL-2009 18:52:18; Bright; 63.5; 76; 27Gam Cas ; 2.30; 30000;occ; 127; 0;38787
10; 3980.7; 31-JUL-2009 18:58:39; Bright; 69.0; 160; 23Gam Per ; 2.93; 4700;occ; 138; 0;38787
11; 4079.7; 31-JUL-2009 19:00:18; Bright; 51.5; 35; 33Alp Per ; 1.79; 6250;occ; 103; 0;38787
12; 4315.9; 31-JUL-2009 19:04:14; Bright; 49.0; 149; 45Eps Per ; 2.89; 30000;occ; 98; 0;38787
13; 4501.1; 31-JUL-2009 19:07:19; Dark ; 52.5; 150; 44Zet Per ; 2.89; 28000;occ; 105; 0;38787
14; 4788.2; 31-JUL-2009 19:12:07; Dark ; 54.0; 13; 87Alp Tau ; 0.87; 3800;occ; 108; 0;38787
15; 5286.0; 31-JUL-2009 19:20:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38787
16; 5444.3; 31-JUL-2009 19:23:03; Dark ; 53.0; 165; 34Gam Eri ; 2.95; 3200;occ; 106; 0;38787
17; 6009.2; 31-JUL-2009 19:32:28; Dark ; 46.0; 157; The1Eri ; 2.91; 9300;occ; 92; 0;38787
18; 6625.8; 31-JUL-2009 19:42:44; Dark ; 57.5; 84; Alp Phe ; 2.40; 4500;occ; 115; 0;38787
19; 6954.0; 31-JUL-2009 19:48:12; Dark ; 42.5; 31; Alp Gru ; 1.73; 15200;occ; 85; 0;38787

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