

GOMOS Daily Report 23-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	26JUL2009 04:40:47
Data source version	GOMOS/5.00
Start time of products	23JUL2009 00:03:23
Stop time of products	23JUL2009 23:53:36
Store outputs in DB	Yes
Nb of level 1b prods	96
Nb of prods with errors	1

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

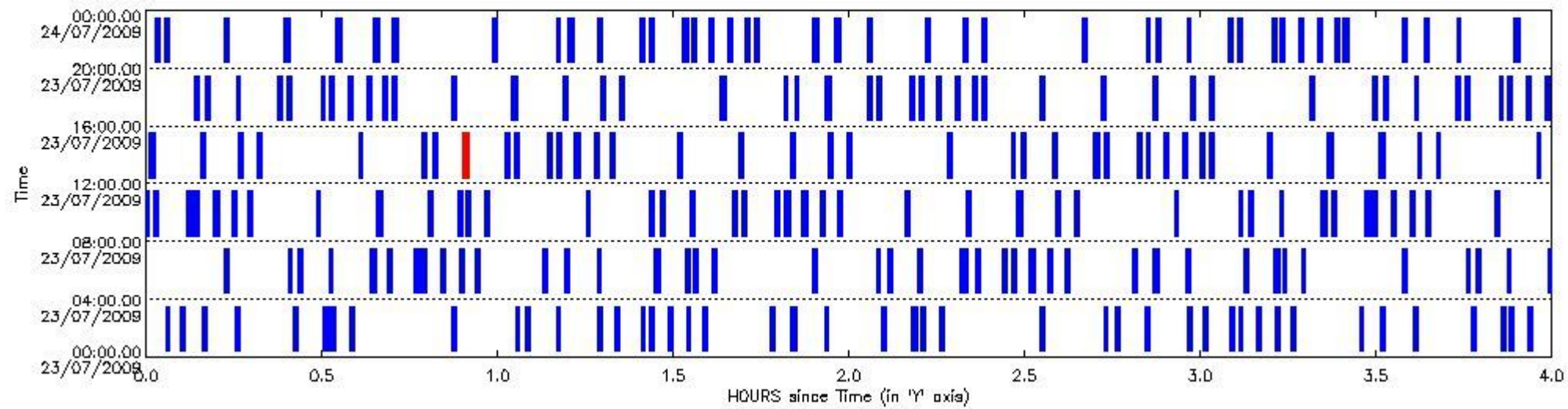
2.1 Level 0 products arrived in PCF (see template [here](#))

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
23-JUL-2009 12:54:06	5AlpCep	89	38669

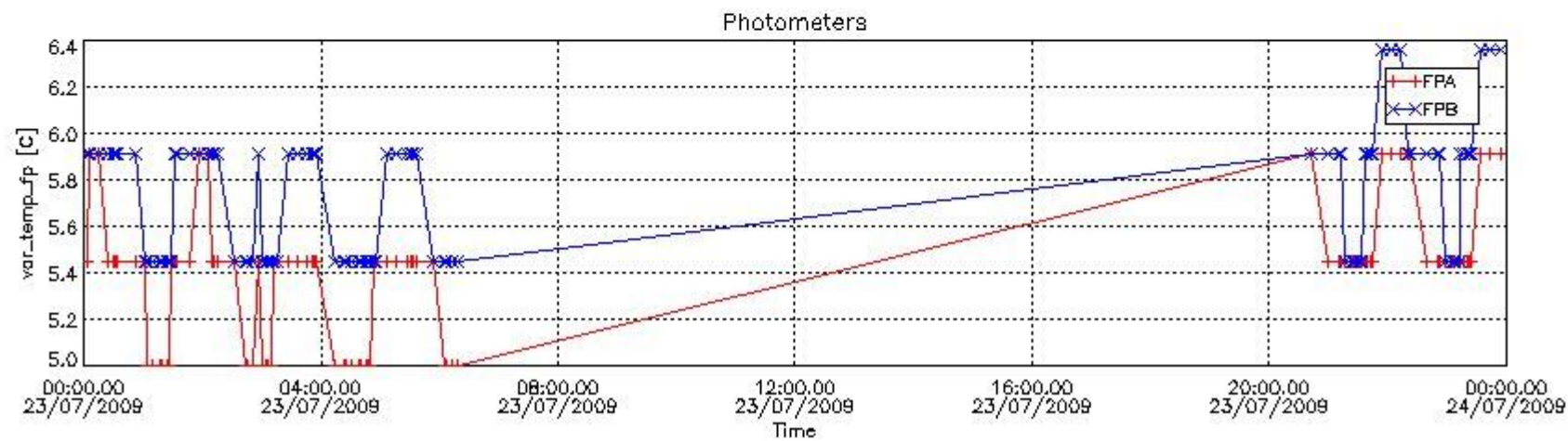
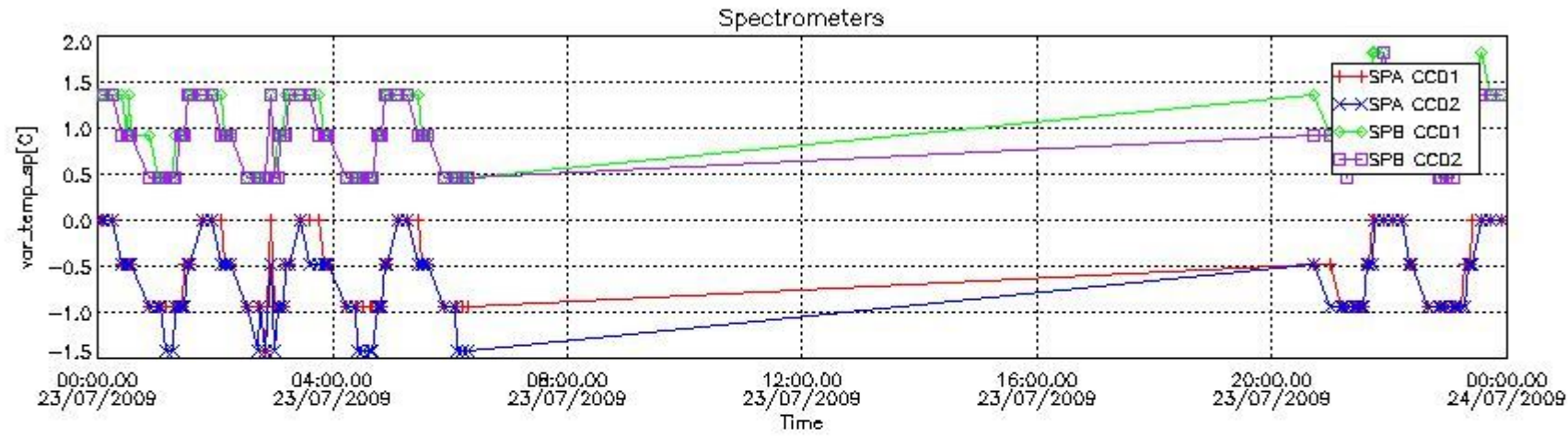
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090723_000323_000000252081_00030_38661_8560.N1	23-JUL-2009 00:03:23	Dark	25.000	94	92Alp Cet	2.5260	3100.0	50	38661	No
2	GOM_TRA_1PNPDE20090723_000554_000000482081_00030_38661_8560.N1	23-JUL-2009 00:05:54	Dark	48.000	165	34Gam Eri	2.9500	3200.0	96	38661	No
3	GOM_TRA_1PNPDE20090723_001509_000000442081_00030_38661_8561.N1	23-JUL-2009 00:15:09	Dark	43.500	157	The1Eri	2.9060	9300.0	87	38661	No
4	GOM_TRA_1PNPDE20090723_002457_000000552081_00031_38662_8562.N1	23-JUL-2009 00:24:57	Straylight	55.000	84	Alp Phe	2.3970	4500.0	110	38662	No
5	GOM_TRA_1PNPDE20090723_003007_000000642081_00031_38662_8563.N1	23-JUL-2009 00:30:07	Straylight	64.000	63	Bet Gru	2.1500	2800.0	128	38662	No
6	GOM_TRA_1PNPDE20090723_003132_000000462081_00031_38662_8564.N1	23-JUL-2009 00:31:32	Straylight	46.000	31	Alp Gru	1.7340	15200.0	92	38662	No
7	GOM_TRA_1PNPDE20090723_003445_000000502081_00031_38662_8565.N1	23-JUL-2009 00:34:45	Straylight	50.000	172	Gam Gru	3.0030	13100.0	100	38662	No
8	GOM_TRA_1PNPDE20090723_005204_000000602081_00031_38662_8566.N1	23-JUL-2009 00:52:04	Bright	60.000	11	53Alp Aql	0.76500	8000.0	120	38662	No
9	GOM_TRA_1PNPDE20090723_010259_000000382081_00031_38662_8567.N1	23-JUL-2009 01:02:59	Bright	37.500	144	18Del Cyg	2.8600	11000.0	75	38662	No
10	GOM_TRA_1PNPDE20090723_010447_000000462081_00031_38662_8568.N1	23-JUL-2009 01:04:47	Bright	46.000	19	50Alp Cyg	1.2460	10500.0	92	38662	No

11	GOM_TRA_1PNPDE20090723_010959_000000442081_00031_38662_8569.N1	23-JUL-2009 01:09:59	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	38662	No
12	GOM_TRA_1PNPDE20090723_011707_000000502081_00031_38662_8570.N1	23-JUL-2009 01:17:07	Bright	50.000	74	11Bet Cas	2.2680	6600.0	100	38662	No
13	GOM_TRA_1PNPDE20090723_011955_000000462081_00031_38662_8571.N1	23-JUL-2009 01:19:55	Bright	46.000	110	37Del Cas	2.6780	8900.0	92	38662	No
14	GOM_TRA_1PNPDE20090723_012425_000000472081_00031_38662_8572.N1	23-JUL-2009 01:24:25	Bright	47.000	160	23Gam Per	2.9300	4700.0	94	38662	No
15	GOM_TRA_1PNPDE20090723_012553_000000472081_00031_38662_8573.N1	23-JUL-2009 01:25:53	Bright	46.500	35	33Alp Per	1.7950	6250.0	93	38662	No
16	GOM_TRA_1PNPDE20090723_012858_000000502081_00031_38662_8574.N1	23-JUL-2009 01:28:58	Bright	49.500	79	26Bet Per	2.3100	13100.	99	38662	No
17	GOM_TRA_1PNPDE20090723_013210_000000482081_00031_38662_8575.N1	23-JUL-2009 01:32:10	Twilight	48.000	150	44Zet Per	2.8900	28000.	96	38662	No
18	GOM_TRA_1PNPDE20090723_013458_000000502081_00031_38662_8576.N1	23-JUL-2009 01:34:58	Twilight	50.000	146	25Eta Tau	2.8730	15200.	100	38662	No
19	GOM_TRA_1PNPDE20090723_014631_000000462081_00031_38662_8575.N1	23-JUL-2009 01:46:31	Dark	46.000	165	34Gam Eri	2.9500	3200.0	92	38662	No
20	GOM_TRA_1PNPDE20090723_015546_000000432081_00031_38662_8576.N1	23-JUL-2009 01:55:46	Dark	42.500	157	The1Eri	2.9060	9300.0	85	38662	No
21	GOM_TRA_1PNPDE20090723_020534_000000532081_00032_38663_8577.N1	23-JUL-2009 02:05:34	Straylight	53.000	84	Alp Phe	2.3970	4500.0	106	38663	No
22	GOM_TRA_1PNPDE20090723_021044_000000602081_00032_38663_8578.N1	23-JUL-2009 02:10:44	Straylight	60.000	63	Bet Gru	2.1500	2800.0	120	38663	No
23	GOM_TRA_1PNPDE20090723_021209_000000472081_00032_38663_8579.N1	23-JUL-2009 02:12:09	Straylight	46.500	31	Alp Gru	1.7340	15200.	93	38663	No
24	GOM_TRA_1PNPDE20090723_021521_000000482081_00032_38663_8580.N1	23-JUL-2009 02:15:21	Straylight	48.000	172	Gam Gru	3.0030	13100.	96	38663	No
25	GOM_TRA_1PNPDE20090723_023239_000000442081_00032_38663_8581.N1	23-JUL-2009 02:32:39	Bright	44.000	11	53Alp Aql	0.76500	8000.0	88	38663	No
26	GOM_TRA_1PNPDE20090723_024334_000000392081_00032_38663_8582.N1	23-JUL-2009 02:43:34	Bright	39.000	144	18Del Cyg	2.8600	11000.	78	38663	No
27	GOM_TRA_1PNPDE20090723_024522_000000462081_00032_38663_8583.N1	23-JUL-2009 02:45:22	Bright	45.500	19	50Alp Cyg	1.2460	10500.	91	38663	No
28	GOM_TRA_1PNPDE20090723_025035_000000382081_00032_38663_8584.N1	23-JUL-2009 02:50:35	Bright	38.000	89	5Alp Cep	2.4510	8000.0	76	38663	No
29	GOM_TRA_1PNPDE20090723_025743_000000532081_00032_38663_8602.N1	23-JUL-2009 02:57:43	Bright	53.000	74	11Bet Cas	2.2680	6600.0	106	38663	Yes
30	GOM_TRA_1PNPDE20090723_030030_000000472081_00032_38663_8603.N1	23-JUL-2009 03:00:30	Bright	47.000	110	37Del Cas	2.6780	8900.0	94	38663	No
31	GOM_TRA_1PNPDE20090723_030501_000000432081_00032_38663_8604.N1	23-JUL-2009 03:05:01	Bright	43.000	160	23Gam Per	2.9300	4700.0	86	38663	No
32	GOM_TRA_1PNPDE20090723_030629_000000462081_00032_38663_8605.N1	23-JUL-2009 03:06:29	Bright	45.500	35	33Alp Per	1.7950	6250.0	91	38663	No
33	GOM_TRA_1PNPDE20090723_030934_000000532081_00032_38663_8606.N1	23-JUL-2009 03:09:34	Bright	52.500	79	26Bet Per	2.3100	13100.	105	38663	No
34	GOM_TRA_1PNPDE20090723_031247_000000492081_00032_38663_8607.N1	23-JUL-2009 03:12:47	Twilight	48.500	150	44Zet Per	2.8900	28000.	97	38663	No
35	GOM_TRA_1PNPDE20090723_031534_000000472081_00032_38663_8608.N1	23-JUL-2009 03:15:34	Twilight	47.000	146	25Eta Tau	2.8730	15200.	94	38663	No
36	GOM_TRA_1PNPDE20090723_032708_000000472081_00032_38663_8609.N1	23-JUL-2009 03:27:08	Dark	46.500	165	34Gam Eri	2.9500	3200.0	93	38663	No
37	GOM_TRA_1PNPDE20090723_033623_000000432081_00032_38663_8610.N1	23-JUL-2009 03:36:23	Dark	43.000	157	The1Eri	2.9060	9300.0	86	38663	No
38	GOM_TRA_1PNPDE20090723_034611_000000582081_00033_38664_8611.N1	23-JUL-2009 03:46:11	Straylight	57.500	84	Alp Phe	2.3970	4500.0	115	38664	No
39	GOM_TRA_1PNPDE20090723_035121_000000512081_00033_38664_8612.N1	23-JUL-2009 03:51:21	Straylight	50.500	63	Bet Gru	2.1500	2800.0	101	38664	No
40	GOM_TRA_1PNPDE20090723_035245_000000482081_00033_38664_8613.N1	23-JUL-2009 03:52:45	Straylight	47.500	31	Alp Gru	1.7340	15200.	95	38664	No
41	GOM_TRA_1PNPDE20090723_035558_000000502081_00033_38664_8614.N1	23-JUL-2009 03:55:58	Straylight	50.000	172	Gam Gru	3.0030	13100.	100	38664	No
42	GOM_TRA_1PNPDE20090723_041315_000000442081_00033_38664_8615.N1	23-JUL-2009 04:13:15	Bright	43.500	11	53Alp Aql	0.76500	8000.0	87	38664	No
43	GOM_TRA_1PNPDE20090723_042410_000000402081_00033_38664_8616.N1	23-JUL-2009 04:24:10	Bright	39.500	144	18Del Cyg	2.8600	11000.	79	38664	No
44	GOM_TRA_1PNPDE20090723_042557_000000462081_00033_38664_8617.N1	23-JUL-2009 04:25:57	Bright	45.500	19	50Alp Cyg	1.2460	10500.	91	38664	No
45	GOM_TRA_1PNPDE20090723_043110_000000412081_00033_38664_8618.N1	23-JUL-2009 04:31:10	Bright	41.000	89	5Alp Cep	2.4510	8000.0	82	38664	No
46	GOM_TRA_1PNPDE20090723_043818_000000512081_00033_38664_8619.N1	23-JUL-2009 04:38:18	Bright	51.000	74	11Bet Cas	2.2680	6600.0	102	38664	No
47	GOM_TRA_1PNPDE20090723_044106_000000472081_00033_38664_8617.N1	23-JUL-2009 04:41:06	Bright	46.500	110	37Del Cas	2.6780	8900.0	93	38664	No
48	GOM_TRA_1PNPDE20090723_044536_000000632081_00033_38664_8618.N1	23-JUL-2009 04:45:36	Bright	63.000	160	23Gam Per	2.9300	4700.0	126	38664	No
49	GOM_TRA_1PNPDE20090723_044705_000000472081_00033_38664_8619.N1	23-JUL-2009 04:47:05	Bright	46.500	35	33Alp Per	1.7950	6250.0	93	38664	No
50	GOM_TRA_1PNPDE20090723_045010_000000542081_00033_38664_8620.N1	23-JUL-2009 04:50:10	Bright	54.000	79	26Bet Per	2.3100	13100.	108	38664	No
51	GOM_TRA_1PNPDE20090723_045323_000000472081_00033_38664_8621.N1	23-JUL-2009 04:53:23	Twilight	46.500	150	44Zet Per	2.8900	28000.	93	38664	No
52	GOM_TRA_1PNPDE20090723_045610_000000512081_00033_38664_8622.N1	23-JUL-2009 04:56:10	Dark	50.500	146	25Eta Tau	2.8730	15200.	101	38664	No
53	GOM_TRA_1PNPDE20090723_050744_000000492081_00033_38664_8623.N1	23-JUL-2009 05:07:44	Dark	49.000	165	34Gam Eri	2.9500	3200.0	98	38664	No
54	GOM_TRA_1PNPDE20090723_051659_000000432081_00033_38664_8624.N1	23-JUL-2009 05:16:59	Dark	43.000	157	The1Eri	2.9060	9300.0	86	38664	No
55	GOM_TRA_1PNPDE20090723_052648_000000602081_00034_38665_8625.N1	23-JUL-2009 05:26:48	Straylight	59.500	84	Alp Phe	2.3970	4500.0	119	38665	No
56	GOM_TRA_1PNPDE20090723_053158_000000512081_00034_38665_8626.N1	23-JUL-2009 05:31:58	Straylight	50.500	63	Bet Gru	2.1500	2800.0	101	38665	No
57	GOM_TRA_1PNPDE20090723_053322_000000452081_00034_38665_8627.N1	23-JUL-2009 05:33:22	Straylight	45.000	31	Alp Gru	1.7340	15200.	90	38665	No
58	GOM_TRA_1PNPDE20090723_053635_000000492081_00034_38665_8628.N1	23-JUL-2009 05:36:35	Straylight	48.500	172	Gam Gru	3.0030	13100.	97	38665	No
59	GOM_TRA_1PNPDE20090723_055351_000000432081_00034_38665_8629.N1	23-JUL-2009 05:53:51	Bright	43.000	11	53Alp Aql	0.76500	8000.0	86	38665	No
60	GOM_TRA_1PNPDE20090723_060446_000000372081_00034_38665_8630.N1	23-JUL-2009 06:04:46	Bright	37.000	144	18Del Cyg	2.8600	11000.	74	38665	No
61	GOM_TRA_1PNPDE20090723_060633_000000462081_00034_38665_8631.N1	23-JUL-2009 06:06:33	Bright	46.000	19	50Alp Cyg	1.2460	10500.	92	38665	No
62	GOM_TRA_1PNPDE20090723_061146_000000422081_00034_38665_8632.N1	23-JUL-2009 06:11:46	Bright	41.500	89	5Alp Cep	2.4510	8000.0	83	38665	No
63	GOM_TRA_1PNPDE20090723_061853_000000752081_00034_38665_8633.N1	23-JUL-2009 06:18:53	Bright	74.500	74	11Bet Cas	2.2680	6600.0	149	38665	No
64	GOM_TRA_1PNPDE20090723_204204_000000502081_00043_38674_9672.N1	23-JUL-2009 20:42:04	Straylight	50.000	172	Gam Gru	3.0030	13100.	100	38674	No
65	GOM_TRA_1PNPDE20090723_205913_000000422081_00043_38674_9673.N1	23-JUL-2009 20:59:13	Bright	41.500	11	53Alp Aql	0.76500	8000.0	83	38674	No
66	GOM_TRA_1PNPDE20090723_211006_000000382081_00043_38674_9674.N1	23-JUL-2009 21:10:06	Bright	38.000	144	18Del Cyg	2.8600	11000.	76	38674	No
67	GOM_TRA_1PNPDE20090723_211150_000000662081_00043_38674_9675.N1	23-JUL-2009 21:11:50	Bright	66.000	19	50Alp Cyg	1.2460	10500.	132	38674	No
68	GOM_TRA_1PNPDE20090723_211704_000000422081_00043_38674_9676.N1	23-JUL-2009 21:17:04	Bright	42.000	89	5Alp Cep	2.4510	8000.0	84	38674	No
69	GOM_TRA_1PNPDE20090723_212410_000000502081_00043_38674_9677.N1	23-JUL-2009 21:24:10	Bright	50.000	74	11Bet Cas	2.2680	6600.0	100	38674	No

70	GOM_TRA_1PNPDE20090723_212551_000000512081_00043_38674_9678.N1	23-JUL-2009 21:25:51	Bright	51.000	76	27Gam Cas	2.3000	30000.	102	38674	No
71	GOM_TRA_1PNPDE20090723_213133_000000592081_00043_38674_9679.N1	23-JUL-2009 21:31:33	Bright	59.000	160	23Gam Per	2.9300	4700.0	118	38674	No
72	GOM_TRA_1PNPDE20090723_213303_000000472081_00043_38674_9680.N1	23-JUL-2009 21:33:03	Bright	47.000	35	33Alp Per	1.7950	6250.0	94	38674	No
73	GOM_TRA_1PNPDE20090723_213608_000000512081_00043_38674_9681.N1	23-JUL-2009 21:36:08	Bright	51.000	79	26Bet Per	2.3100	13100.	102	38674	No
74	GOM_TRA_1PNPDE20090723_213923_000000462081_00043_38674_9682.N1	23-JUL-2009 21:39:23	Twilight	45.500	150	44Zet Per	2.8900	28000.	91	38674	No
75	GOM_TRA_1PNPDE20090723_214213_000000522081_00043_38674_9683.N1	23-JUL-2009 21:42:13	Dark	52.000	146	25Eta Tau	2.8730	15200.	104	38674	No
76	GOM_TRA_1PNPDE20090723_214348_000000492081_00043_38674_9684.N1	23-JUL-2009 21:43:48	Dark	48.500	13	87Alp Tau	0.86700	3800.0	97	38674	No
77	GOM_TRA_1PNPDE20090723_215351_000000512081_00043_38674_0194.N1	23-JUL-2009 21:53:51	Dark	50.500	165	34Gam Eri	2.9500	3200.0	101	38674	No
78	GOM_TRA_1PNPDE20090723_220307_000000442081_00043_38674_0195.N1	23-JUL-2009 22:03:07	Dark	43.500	157	The1Eri	2.9060	9300.0	87	38674	No
79	GOM_TRA_1PNPDE20090723_221259_000000542081_00044_38675_0196.N1	23-JUL-2009 22:12:59	Straylight	53.500	84	Alp Phe	2.3970	4500.0	107	38675	No
80	GOM_TRA_1PNPDE20090723_221928_000000522081_00044_38675_0197.N1	23-JUL-2009 22:19:28	Straylight	51.500	31	Alp Gru	1.7340	15200.	103	38675	No
81	GOM_TRA_1PNPDE20090723_222240_000000482081_00044_38675_0198.N1	23-JUL-2009 22:22:40	Straylight	48.000	172	Gam Gru	3.0030	13100.	96	38675	No
82	GOM_TRA_1PNPDE20090723_223948_000000432081_00044_38675_0199.N1	23-JUL-2009 22:39:48	Bright	42.500	11	53Alp Aql	0.76500	8000.0	85	38675	No
83	GOM_TRA_1PNPDE20090723_225041_000000402081_00044_38675_0200.N1	23-JUL-2009 22:50:41	Bright	39.500	144	18Del Cyg	2.8600	11000.	79	38675	No
84	GOM_TRA_1PNPDE20090723_225225_000000462081_00044_38675_0201.N1	23-JUL-2009 22:52:25	Bright	45.500	19	50Alp Cyg	1.2460	10500.	91	38675	No
85	GOM_TRA_1PNPDE20090723_225740_000000442081_00044_38675_0202.N1	23-JUL-2009 22:57:40	Bright	43.500	89	5Alp Cep	2.4510	8000.0	87	38675	No
86	GOM_TRA_1PNPDE20090723_230445_000000532081_00044_38675_0203.N1	23-JUL-2009 23:04:45	Bright	53.000	74	11Bet Cas	2.2680	6600.0	106	38675	No
87	GOM_TRA_1PNPDE20090723_230626_000000492081_00044_38675_0204.N1	23-JUL-2009 23:06:26	Bright	49.000	76	27Gam Cas	2.3000	30000.	98	38675	No
88	GOM_TRA_1PNPDE20090723_231209_000000472081_00044_38675_0205.N1	23-JUL-2009 23:12:09	Bright	46.500	160	23Gam Per	2.9300	4700.0	93	38675	No
89	GOM_TRA_1PNPDE20090723_231339_000000472081_00044_38675_0206.N1	23-JUL-2009 23:13:39	Bright	46.500	35	33Alp Per	1.7950	6250.0	93	38675	No
90	GOM_TRA_1PNPDE20090723_231644_000000542081_00044_38675_0207.N1	23-JUL-2009 23:16:44	Bright	53.500	79	26Bet Per	2.3100	13100.	107	38675	No
91	GOM_TRA_1PNPDE20090723_231959_000000472081_00044_38675_0208.N1	23-JUL-2009 23:19:59	Twilight	46.500	150	44Zet Per	2.8900	28000.	93	38675	No
92	GOM_TRA_1PNPDE20090723_232249_000000492081_00044_38675_0209.N1	23-JUL-2009 23:22:49	Dark	49.000	146	25Eta Tau	2.8730	15200.	98	38675	No
93	GOM_TRA_1PNPDE20090723_232424_000000582081_00044_38675_0210.N1	23-JUL-2009 23:24:24	Dark	58.000	13	87Alp Tau	0.86700	3800.0	116	38675	No
94	GOM_TRA_1PNPDE20090723_233427_000000472081_00044_38675_0148.N1	23-JUL-2009 23:34:27	Dark	47.000	165	34Gam Eri	2.9500	3200.0	94	38675	No
95	GOM_TRA_1PNPDE20090723_234344_000000442081_00044_38675_0149.N1	23-JUL-2009 23:43:44	Dark	43.500	157	The1Eri	2.9060	9300.0	87	38675	No
96	GOM_TRA_1PNPDE20090723_235336_000000542081_00045_38676_0150.N1	23-JUL-2009 23:53:36	Straylight	53.500	84	Alp Phe	2.3970	4500.0	107	38676	No

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



4. Overview of dark signal processing per product

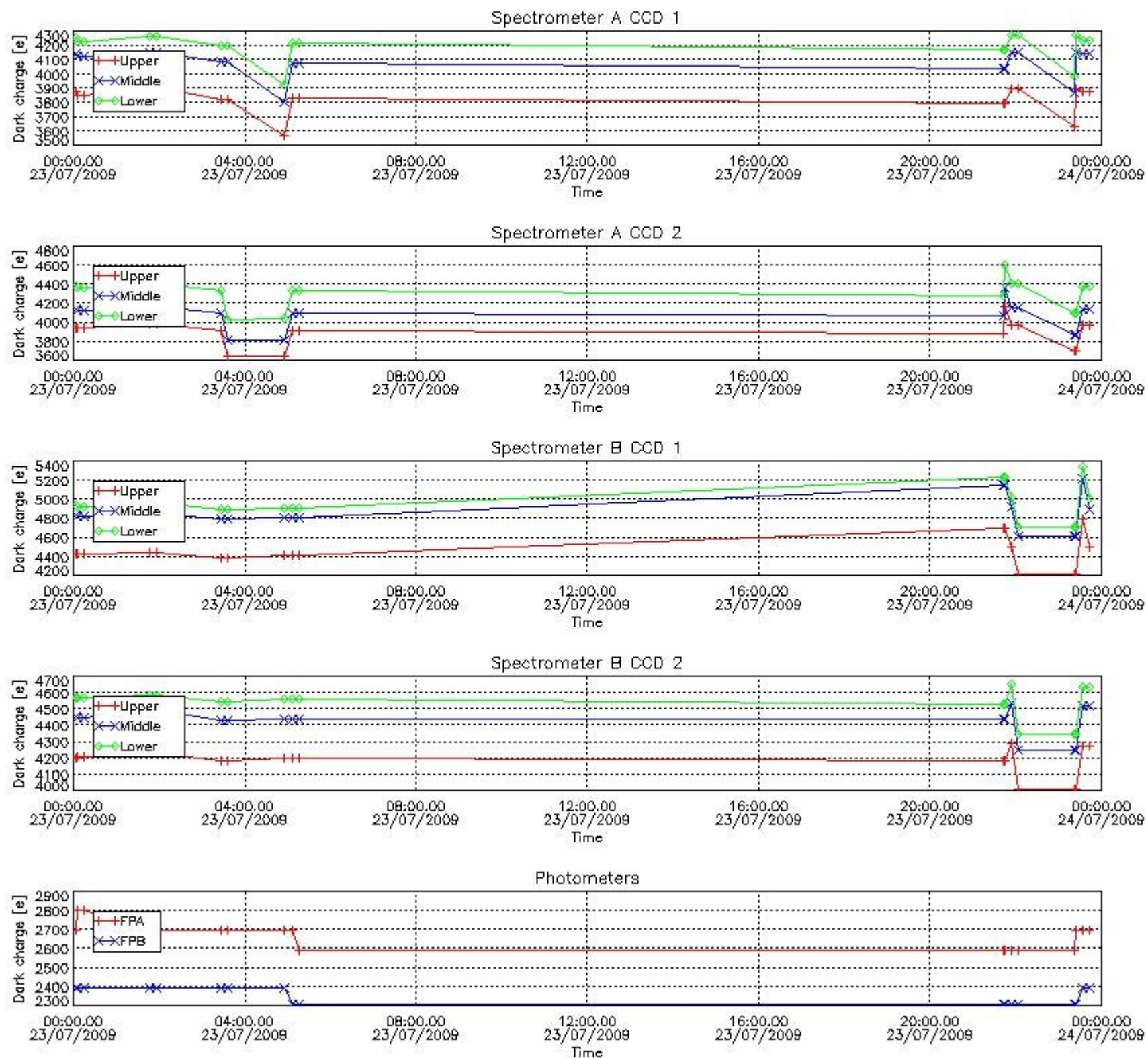
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090723_204204_000000502081_00043_38674_9672.N1	DC map used
GOM_TRA_1PNPDE20090723_205913_000000422081_00043_38674_9673.N1	DC map used
GOM_TRA_1PNPDE20090723_211006_000000382081_00043_38674_9674.N1	DC map used
GOM_TRA_1PNPDE20090723_211150_000000662081_00043_38674_9675.N1	DC map used
GOM_TRA_1PNPDE20090723_211704_000000422081_00043_38674_9676.N1	DC map used
GOM_TRA_1PNPDE20090723_212410_000000502081_00043_38674_9677.N1	DC map used
GOM_TRA_1PNPDE20090723_212551_000000512081_00043_38674_9678.N1	DC map used
GOM_TRA_1PNPDE20090723_213133_000000592081_00043_38674_9679.N1	DC map used
GOM_TRA_1PNPDE20090723_213303_000000472081_00043_38674_9680.N1	DC map used
GOM_TRA_1PNPDE20090723_213608_000000512081_00043_38674_9681.N1	DC map used
GOM_TRA_1PNPDE20090723_213923_000000462081_00043_38674_9682.N1	DC map used
GOM_TRA_1PNPDE20090723_214213_000000522081_00043_38674_9683.N1	DC map used
GOM_TRA_1PNPDE20090723_214348_000000492081_00043_38674_9684.N1	DC map used

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



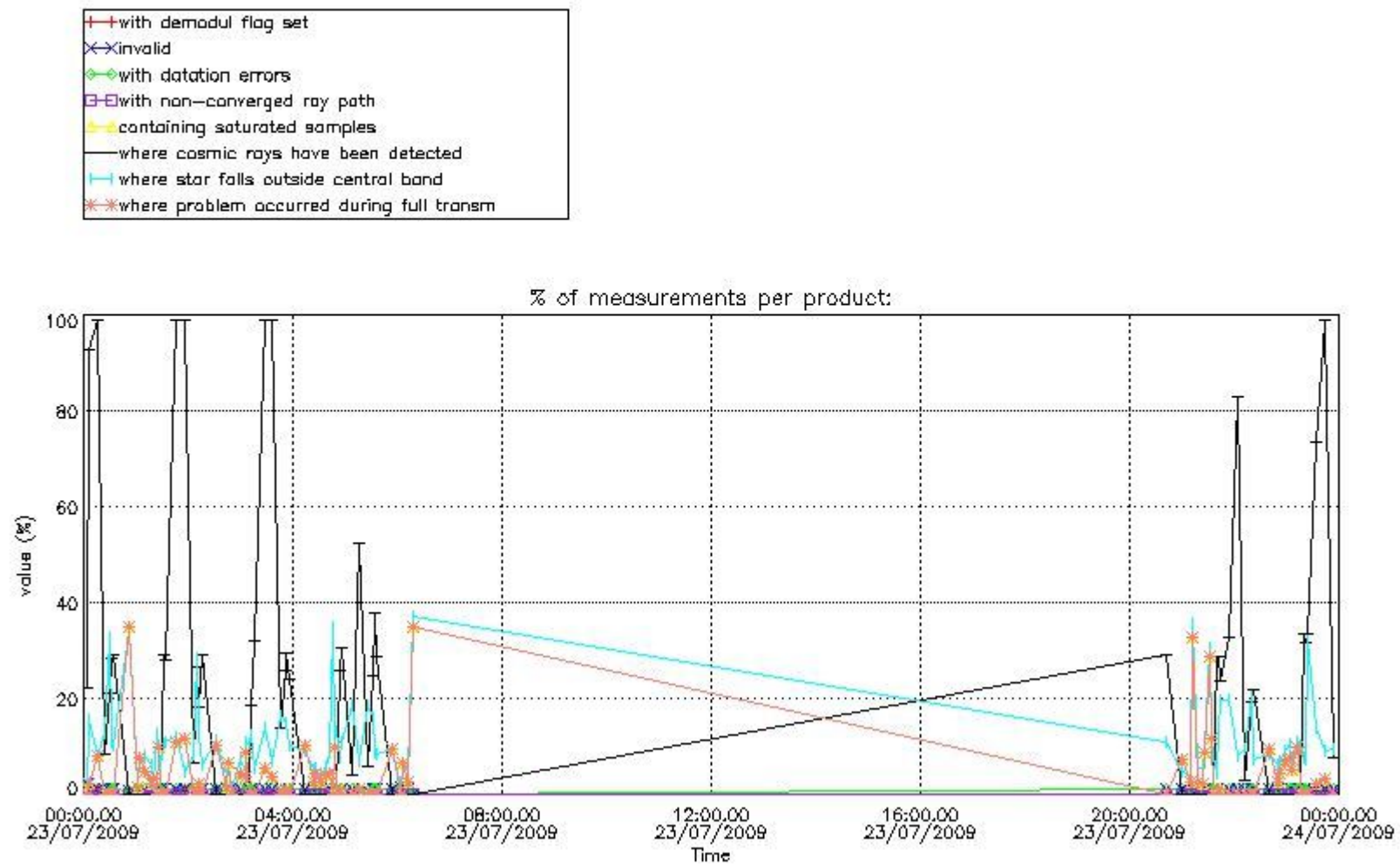
5. Demodulation flag and quality information monitoring

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.

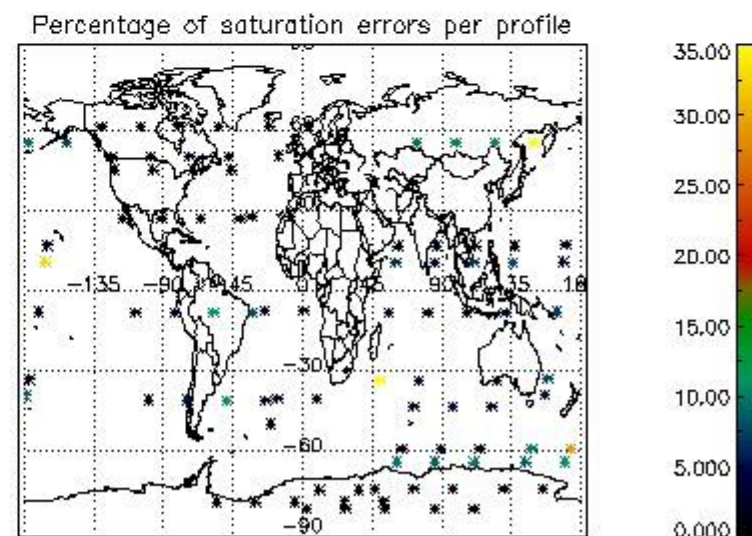
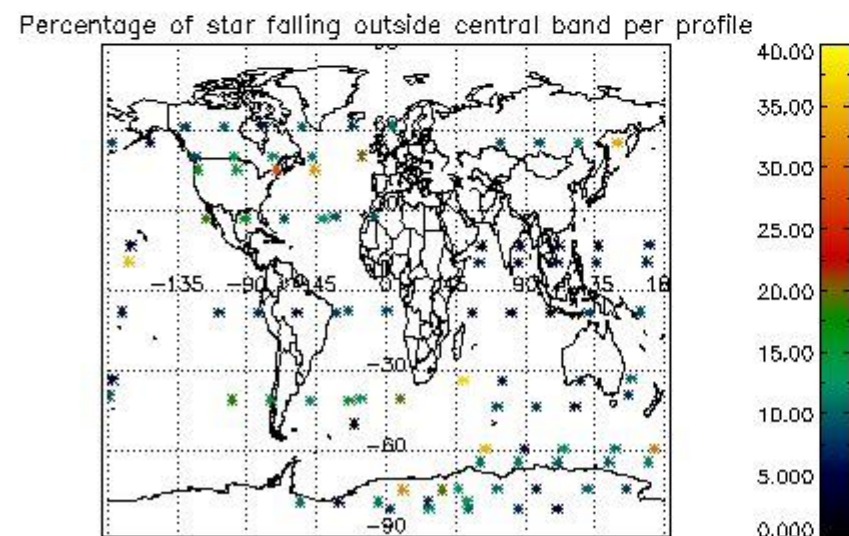
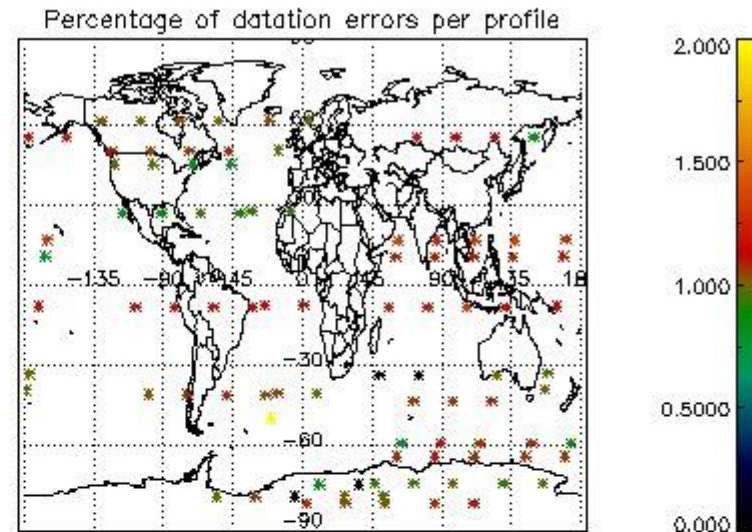
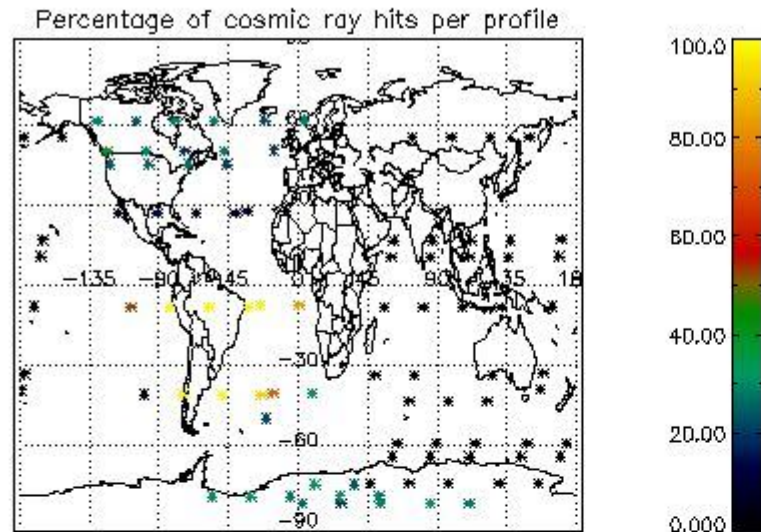
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	32.6316 %
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)



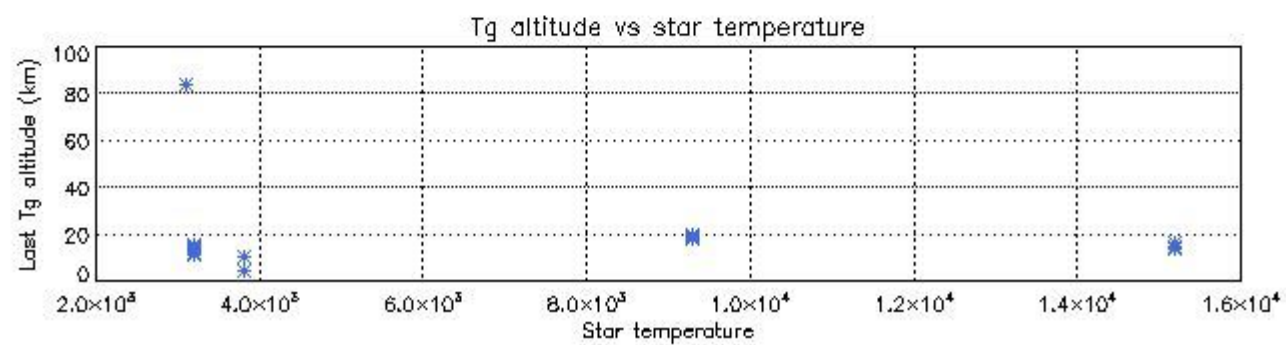
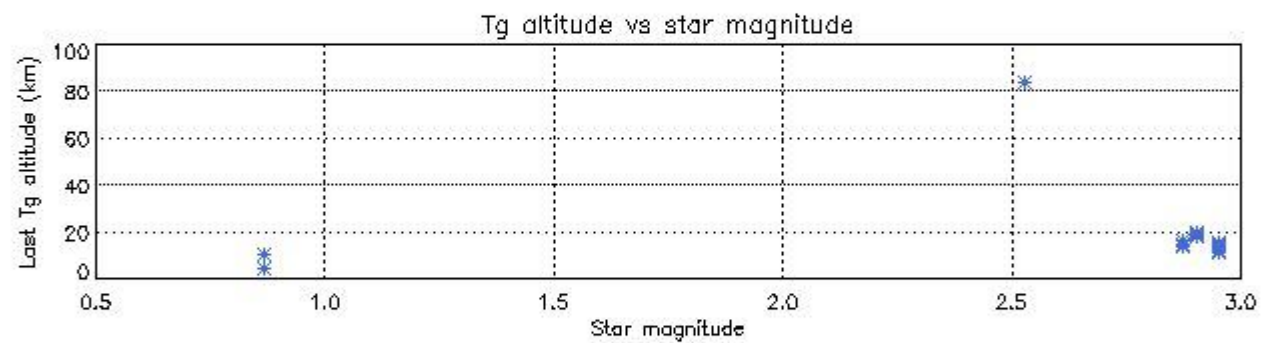
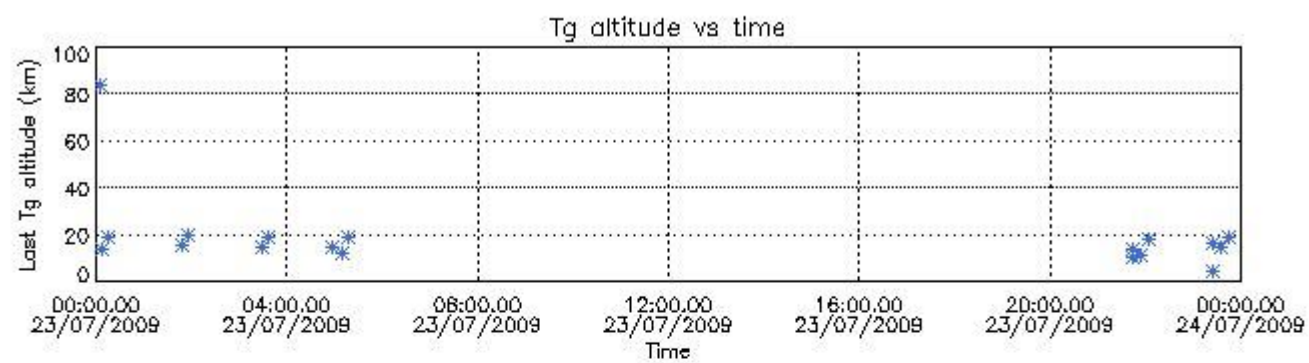
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	18.715	18.294	16.241
St. deviation:	16.667	5.4858	2.2569
Maximum:	83.737	28.618	17.837
Minimum:	4.3514	3.0080	14.645
Number of data:	18.000	49.000	2.0000

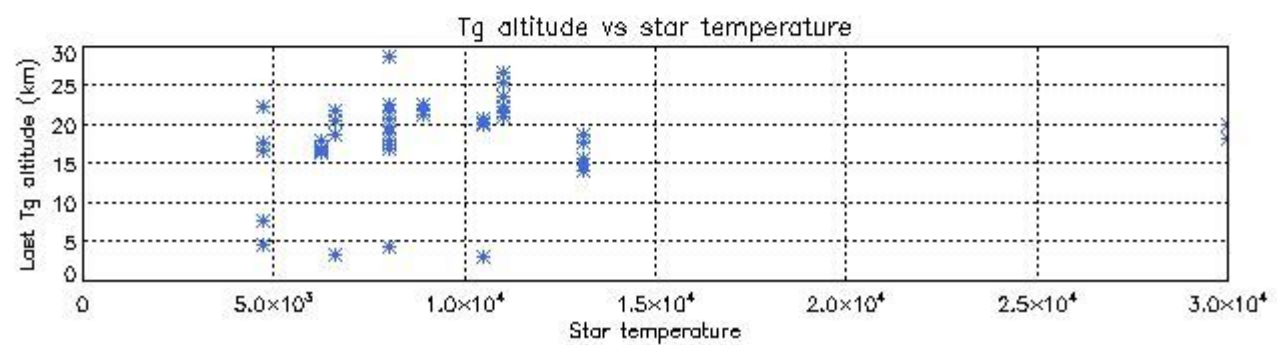
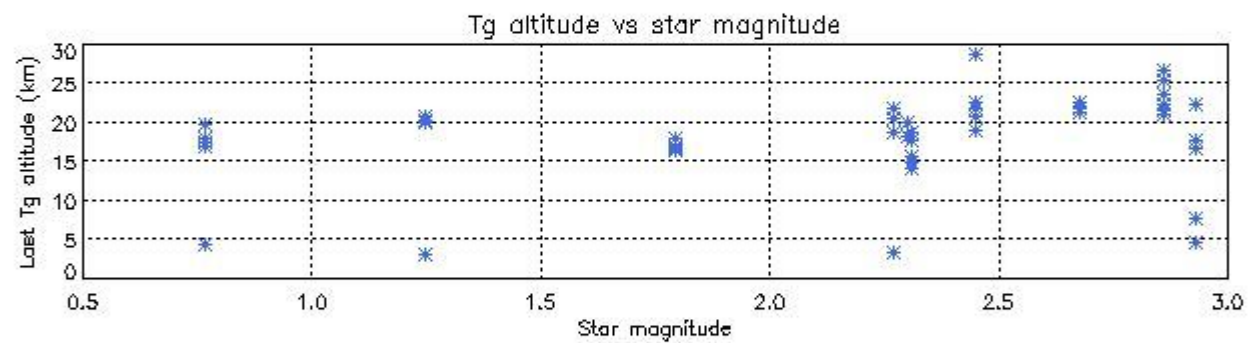
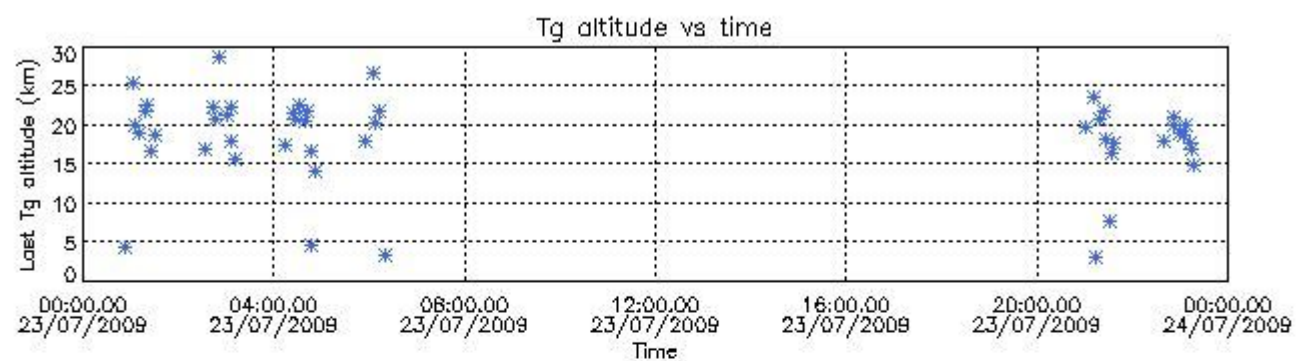
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



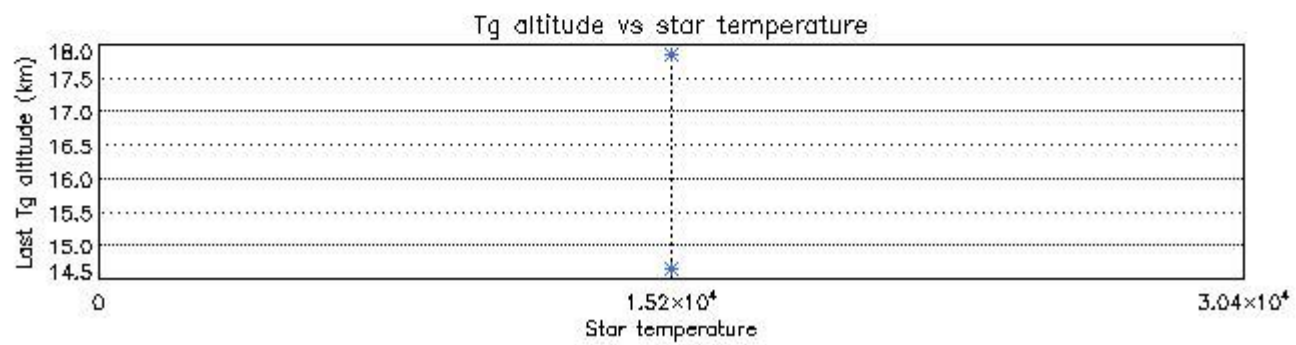
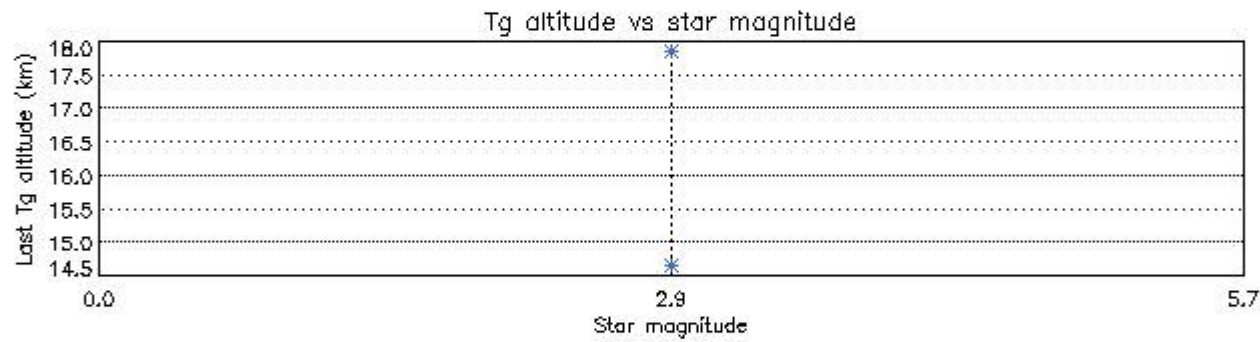
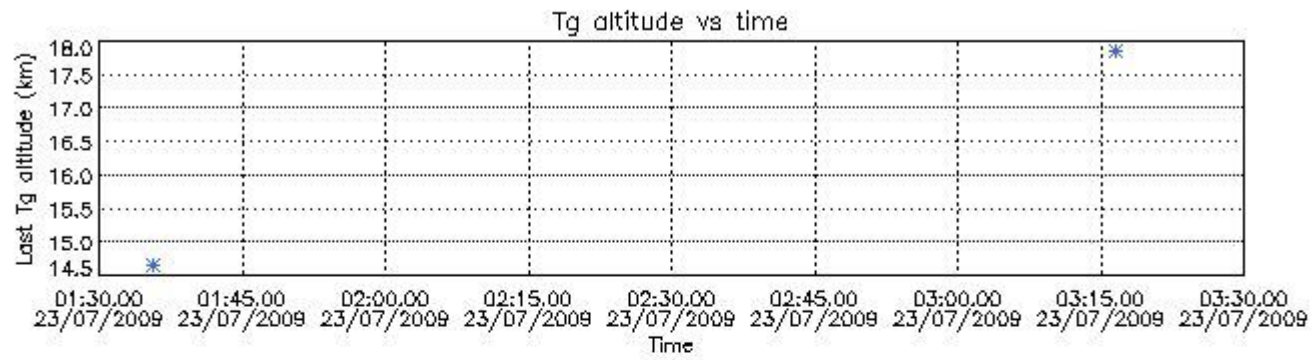
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

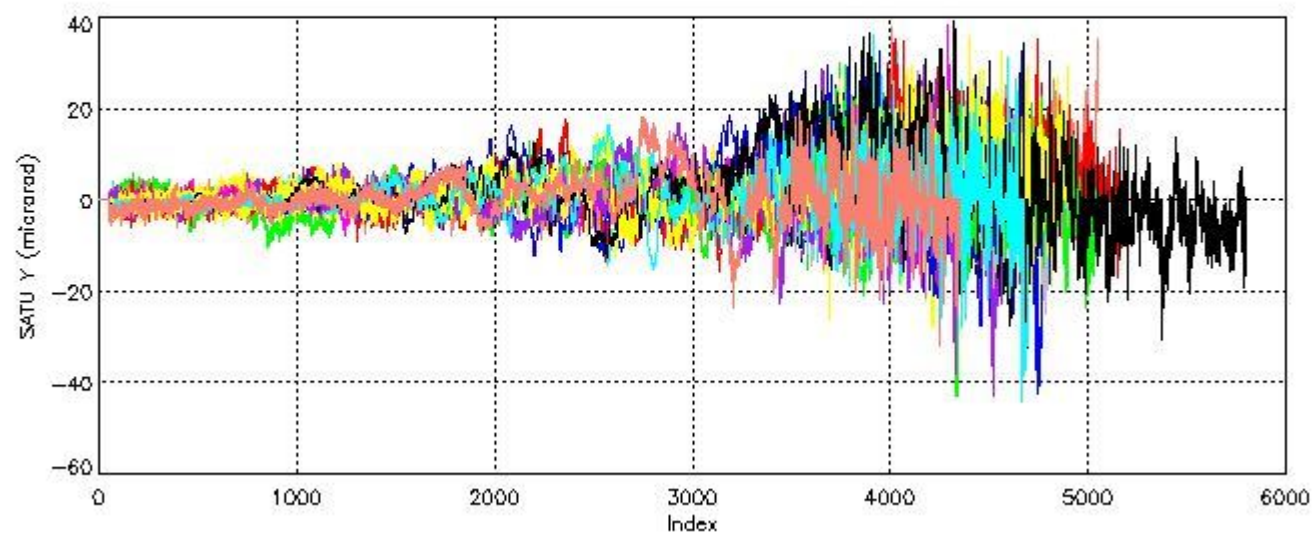
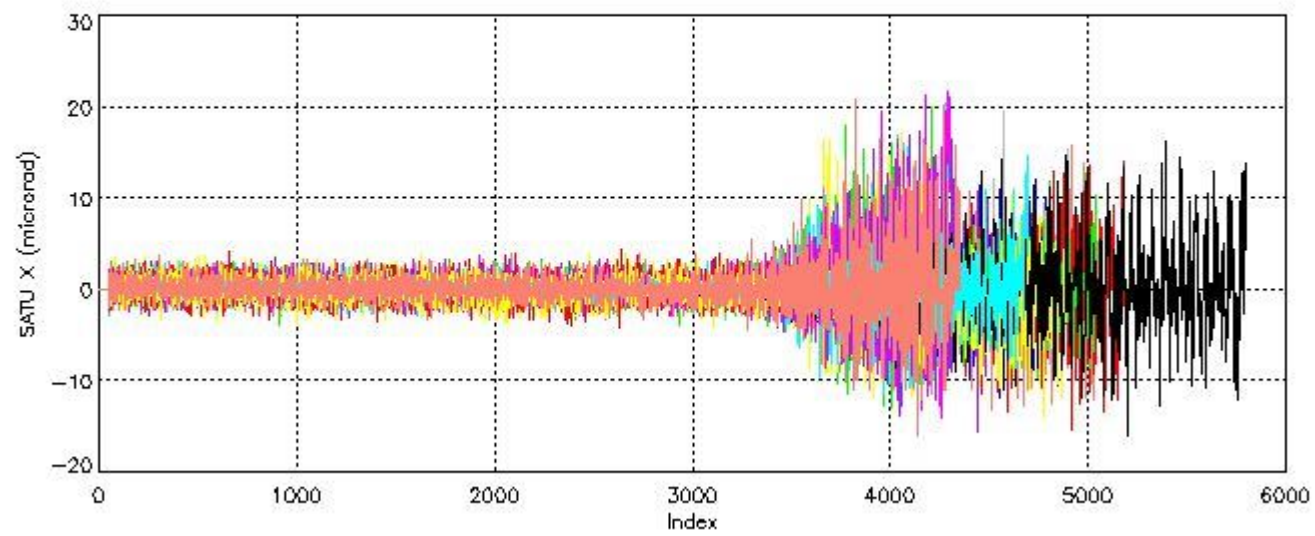


7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

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

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.16775	-0.47055	0.26761	-0.50518
St. deviation:	0.64124	1.2825	0.74451	1.1693
Maximum:	4.2000	7.0000	6.1000	7.2000
Minimum:	-3.9000	-10.500	-4.9000	-8.7000

Number of data:	18550.	18550.	50850.	50850.
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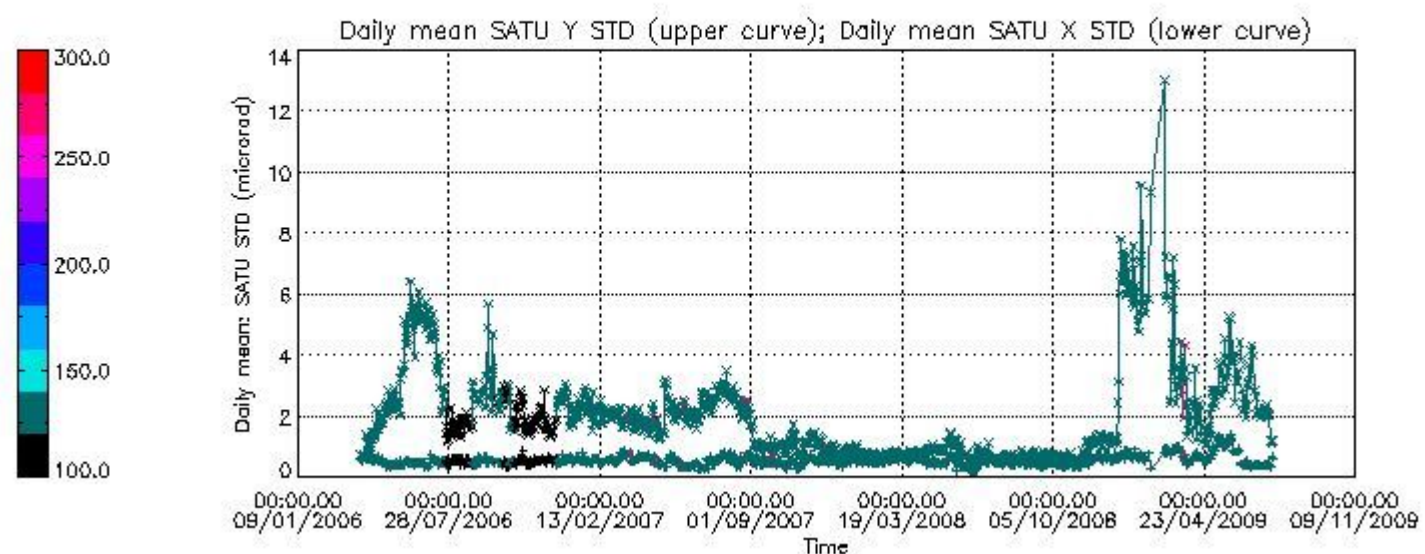
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

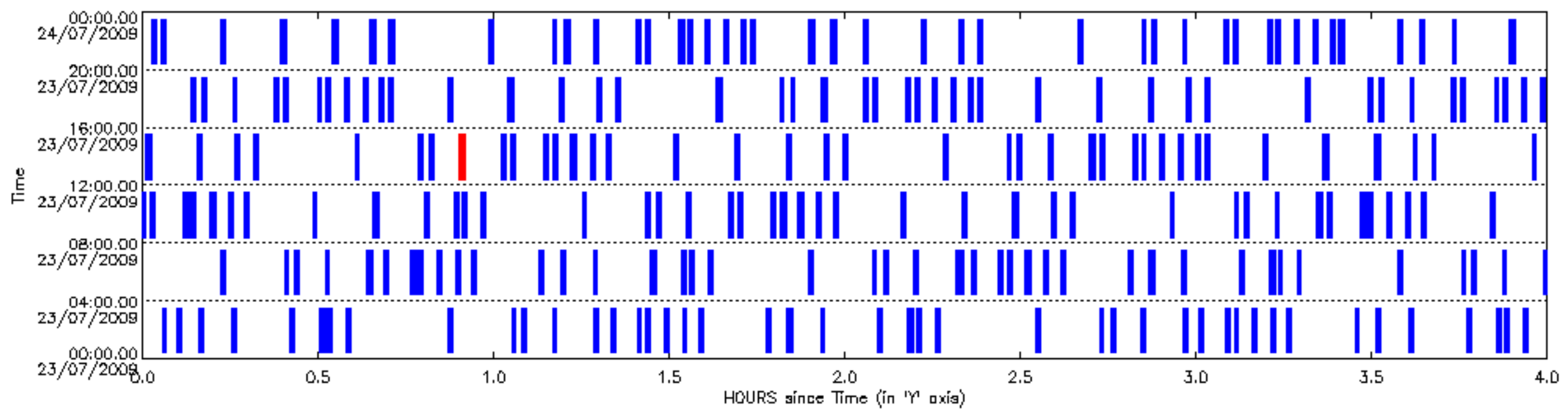
Lower curve: STD of SATU X axis

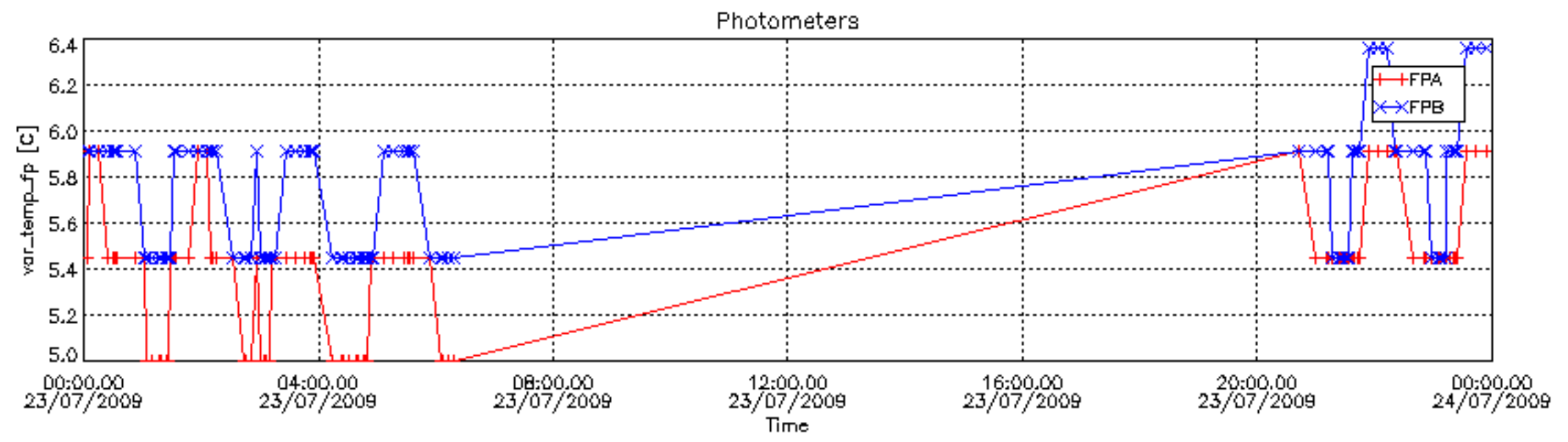
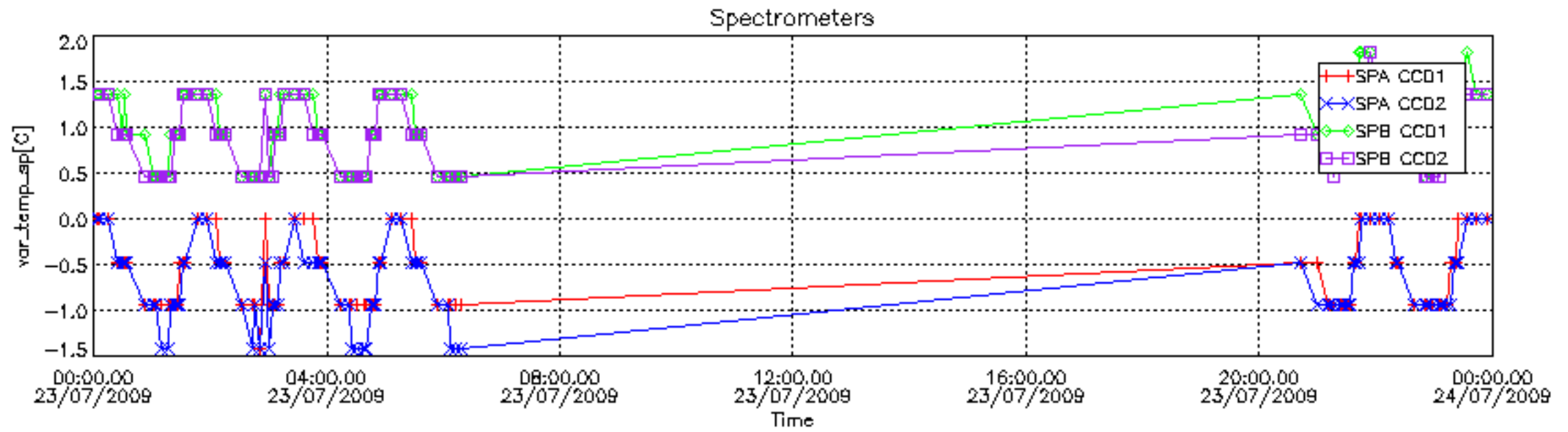


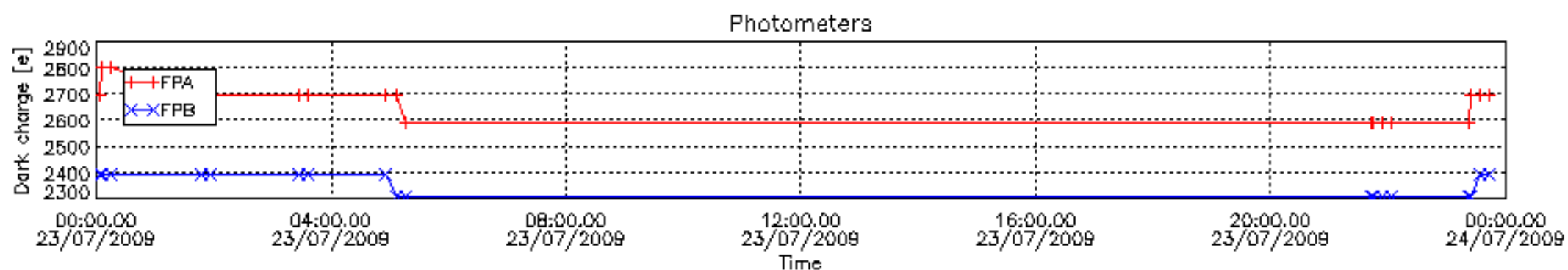
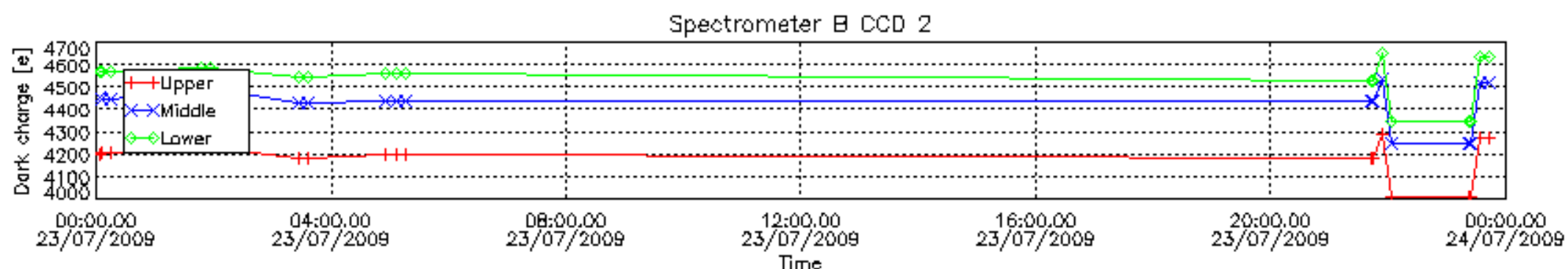
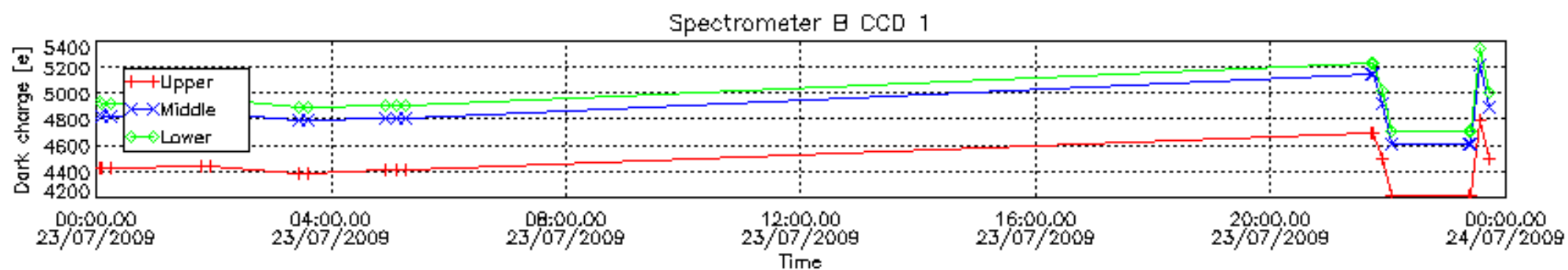
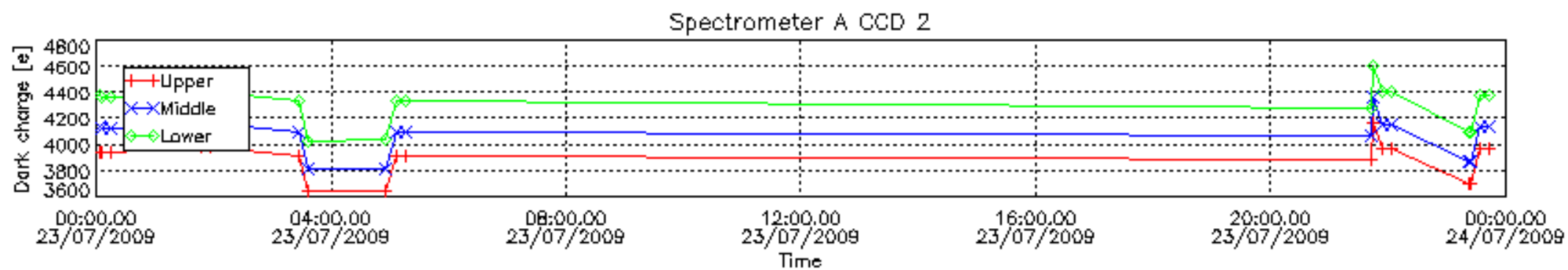
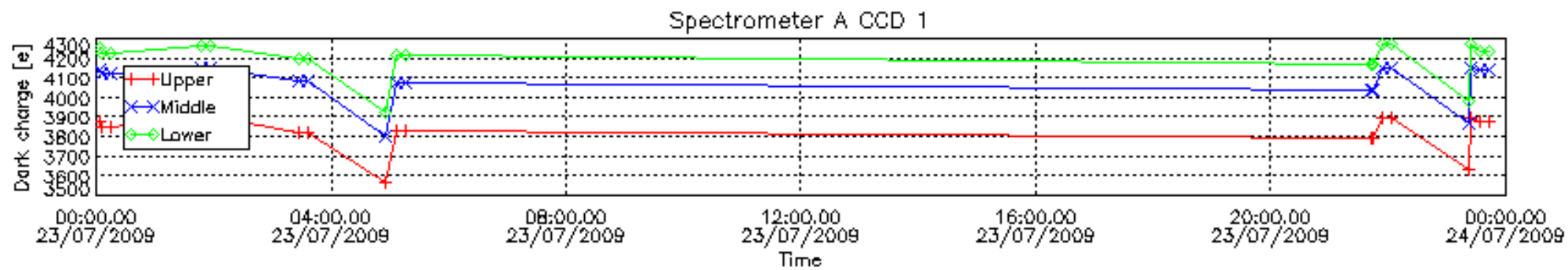
8. Auxiliary Data Files used for the production reported in section 2.4

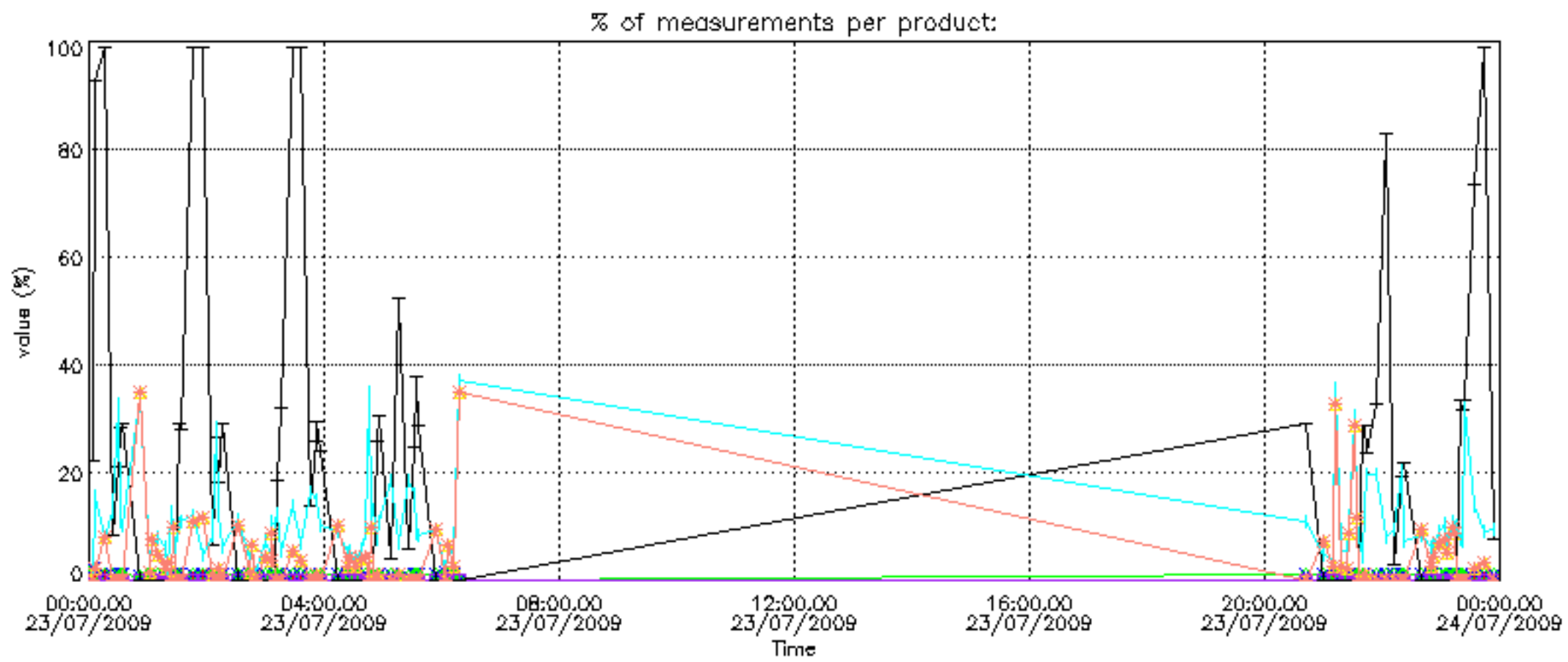
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	23-JUL-2009 00:03:23
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090714_102335_20090712_000000_20100101_000000	1	23-JUL-2009 00:03:23
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090724_083809_20090721_000000_20100101_000000	77	23-JUL-2009 21:53:51
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	23-JUL-2009 00:03:23
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	23-JUL-2009 00:03:23
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	23-JUL-2009 00:03:23
ECMWF_FILE	AUX_ECF_AXNECM20090722_064111_20090722_210000_20090723_090000	1	23-JUL-2009 00:03:23
ECMWF_FILE	AUX_ECF_AXNECM20090722_182111_20090723_030000_20090723_150000	47	23-JUL-2009 04:41:06
ECMWF_FILE	AUX_ECF_AXNECM20090723_064113_20090723_150000_20090724_030000	64	23-JUL-2009 20:42:04
ECMWF_FILE	AUX_ECF_AXNECM20090723_064113_20090723_210000_20090724_090000	77	23-JUL-2009 21:53:51
OPTIONAL_ECMWF_FILE	MISSING	1	23-JUL-2009 00:03:23
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090722_211222_000038252081_00029_38660_8403.N1	1	23-JUL-2009 00:03:23
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090722_222126_000057382081_00029_38660_8404.N1	2	23-JUL-2009 00:05:54
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090723_000223_000057382081_00030_38661_8405.N1	19	23-JUL-2009 01:46:31
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090723_013801_000044632081_00031_38662_8406.N1	29	23-JUL-2009 02:57:43
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090723_025743_000057382081_00032_38663_8407.N1	47	23-JUL-2009 04:41:06
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090723_204021_000038262081_00043_38674_8409.N1	64	23-JUL-2009 20:42:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090723_214925_000057382081_00043_38674_8410.N1	77	23-JUL-2009 21:53:51
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090723_233022_000057382081_00044_38675_8411.N1	94	23-JUL-2009 23:34:27

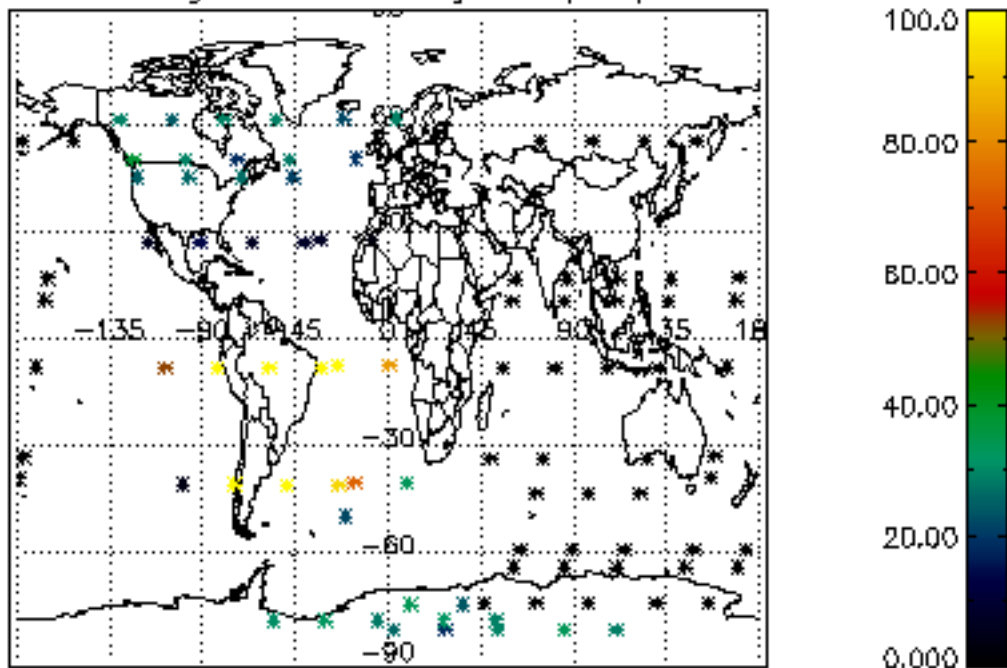




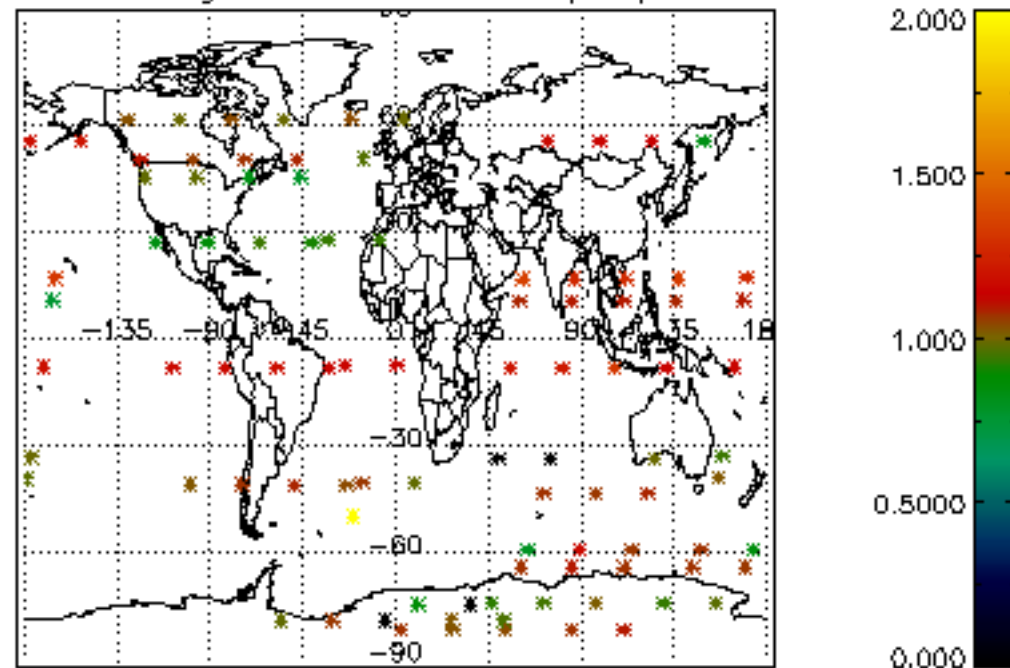




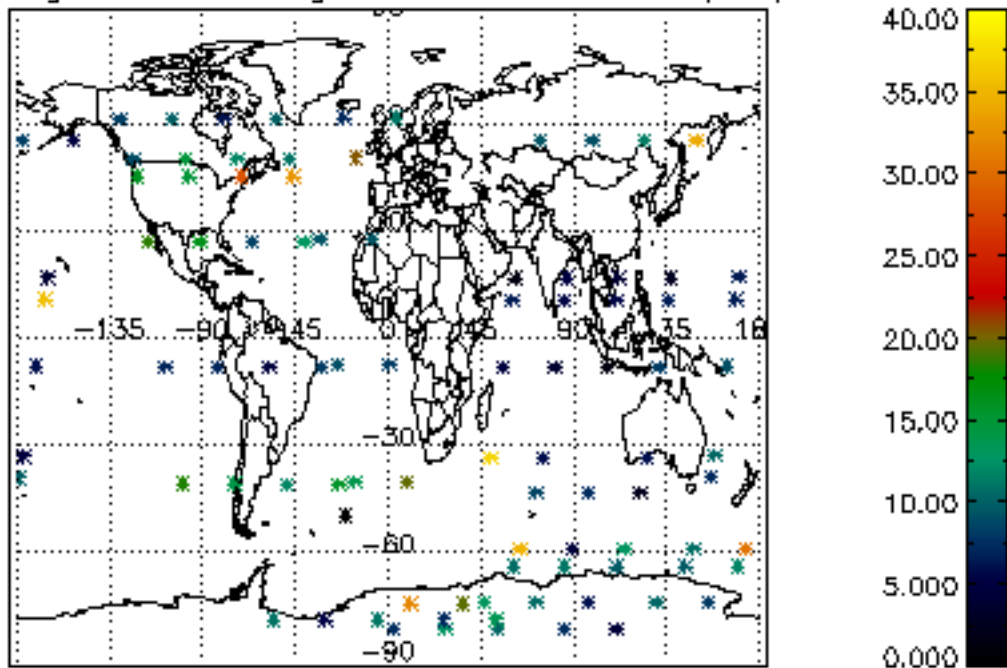
Percentage of cosmic ray hits per profile



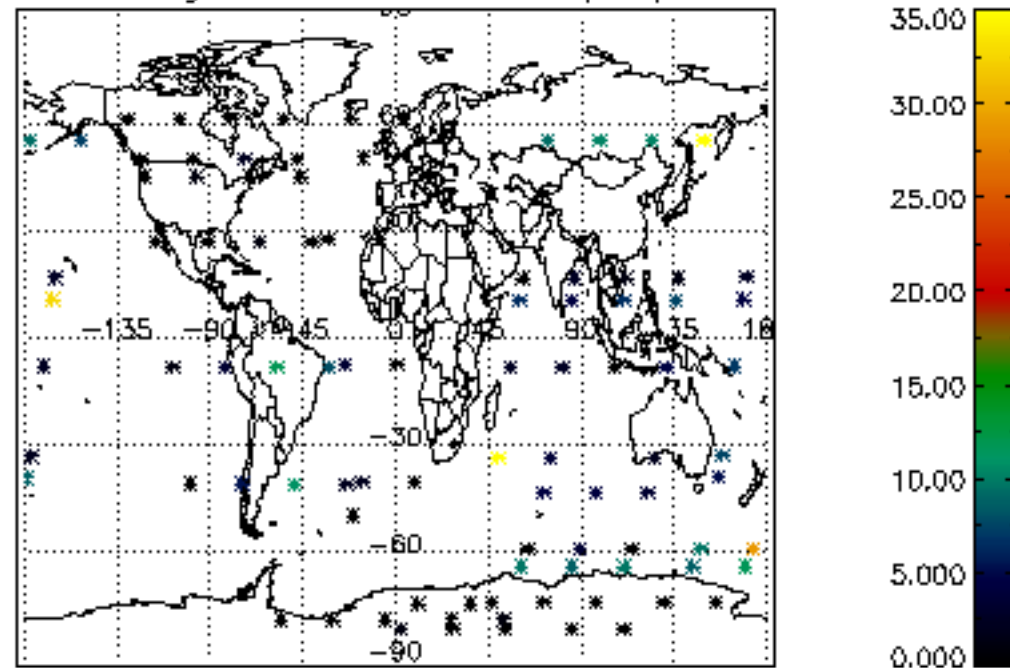
Percentage of datation errors per profile



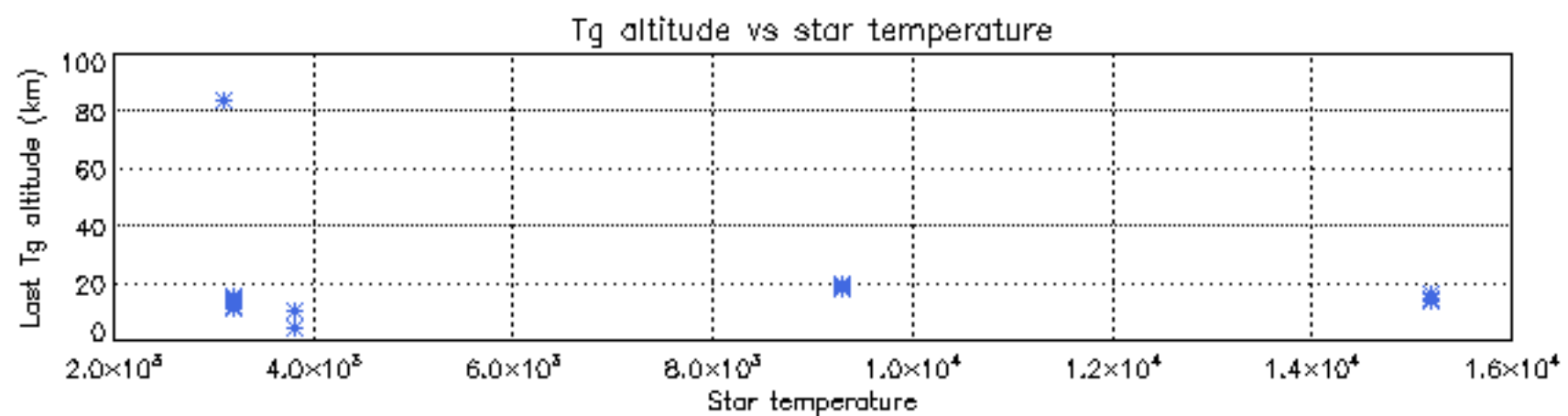
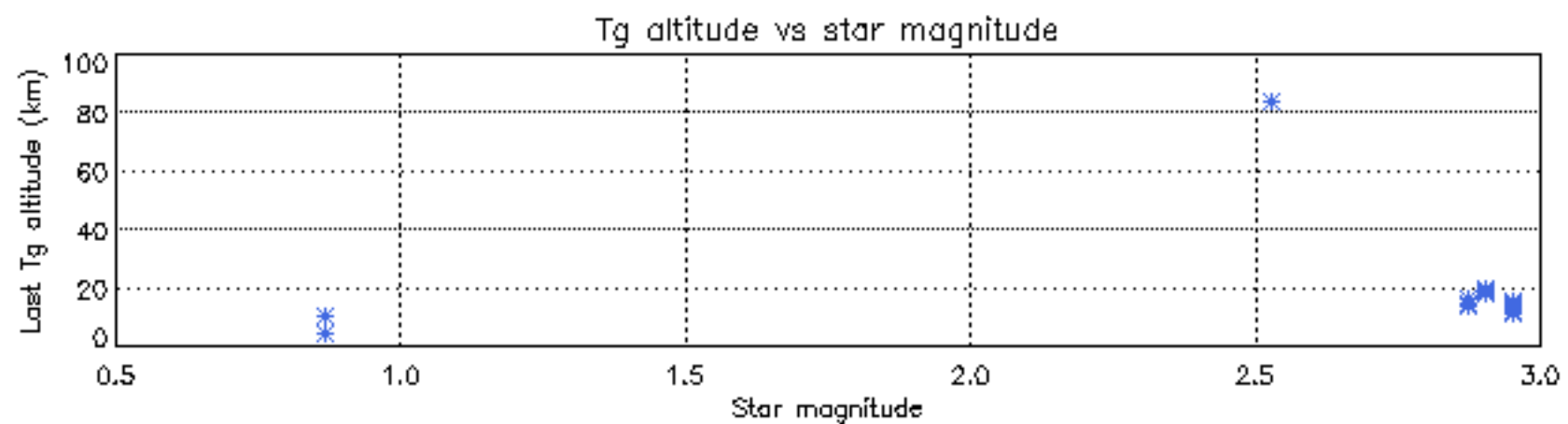
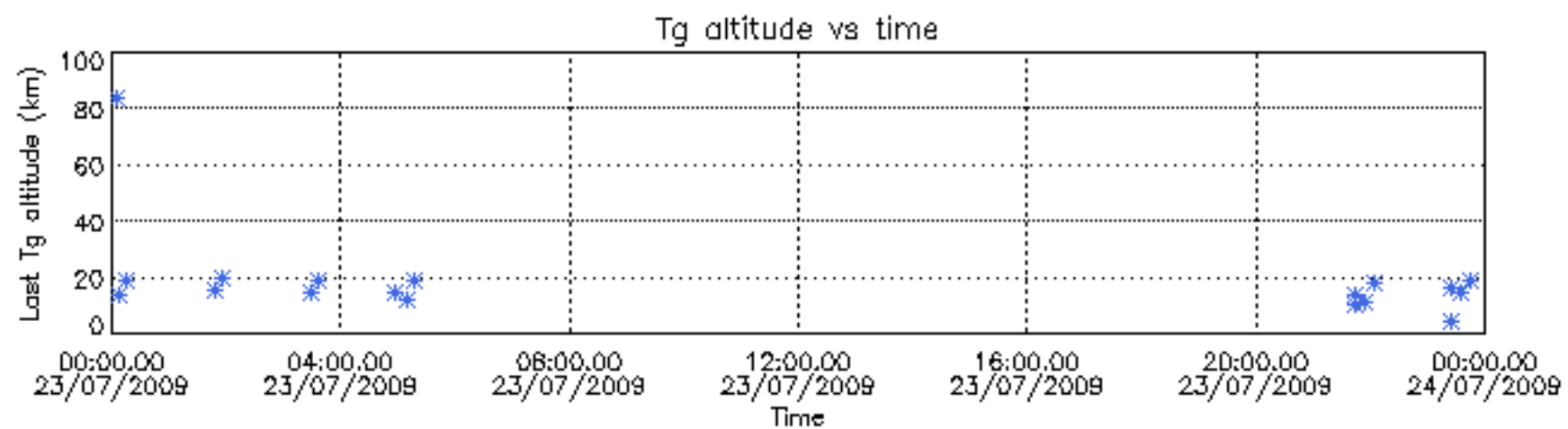
Percentage of star falling outside central band per profile



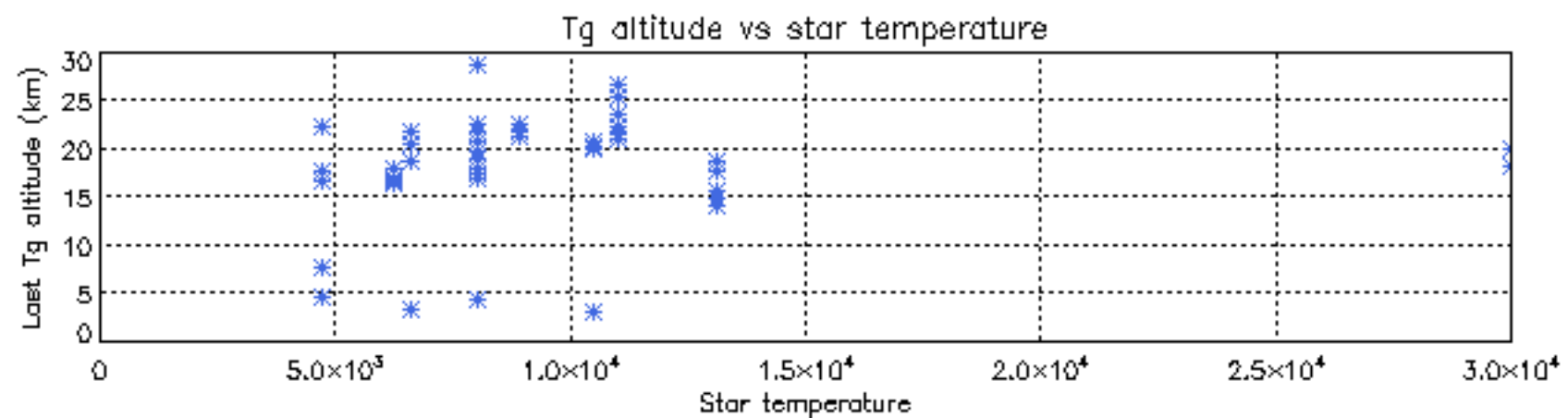
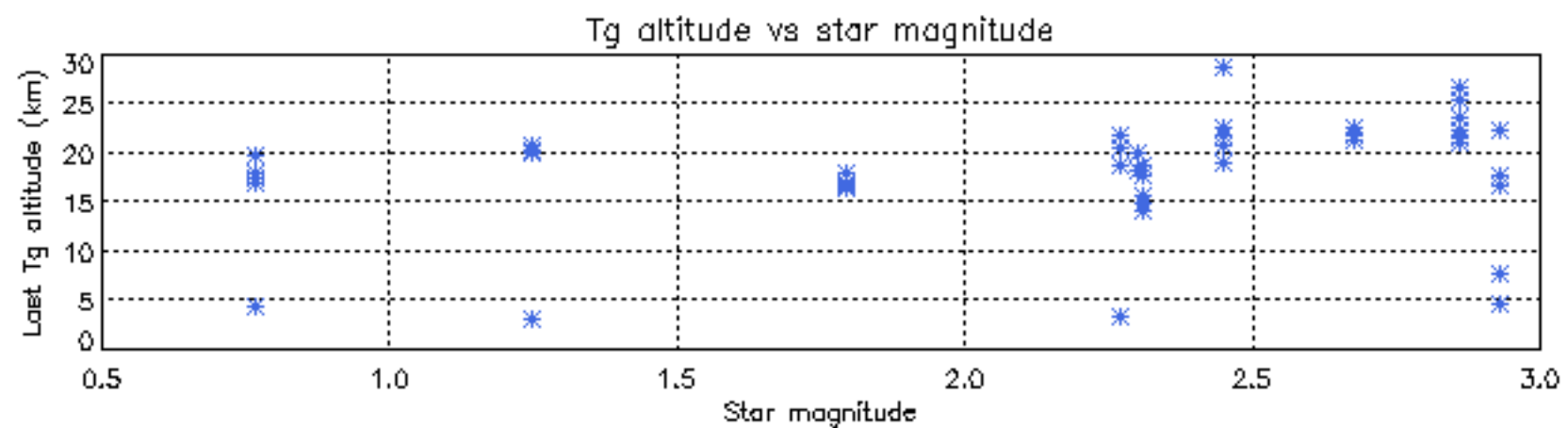
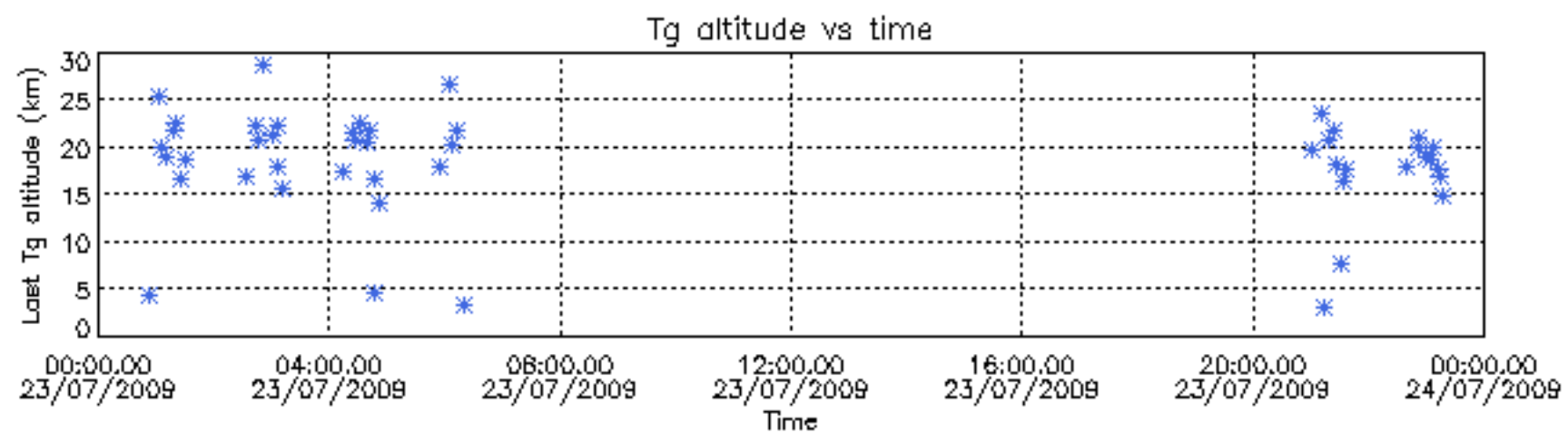
Percentage of saturation errors per profile



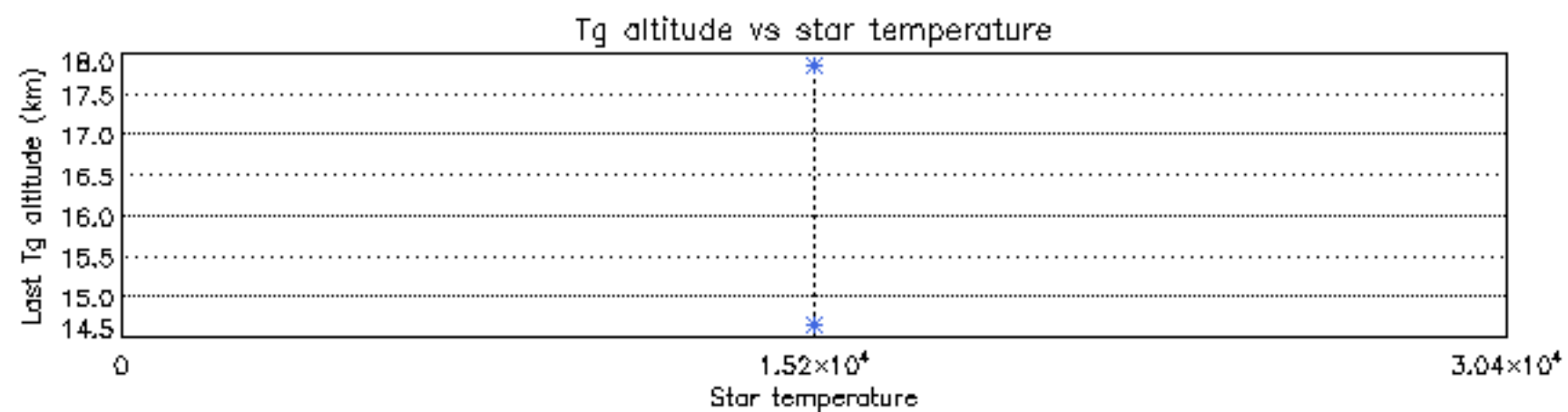
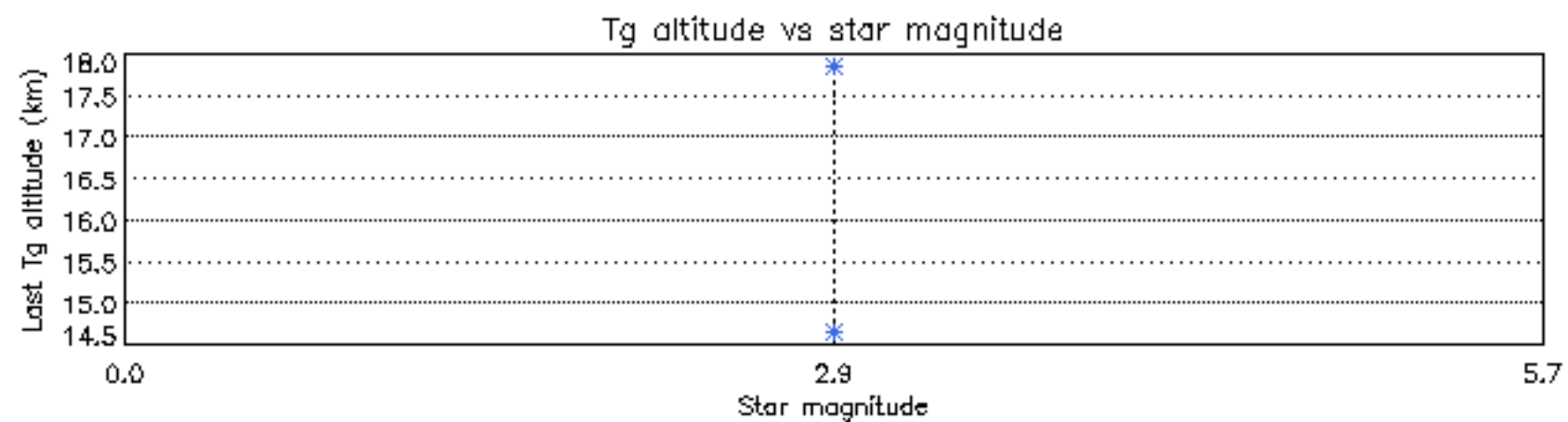
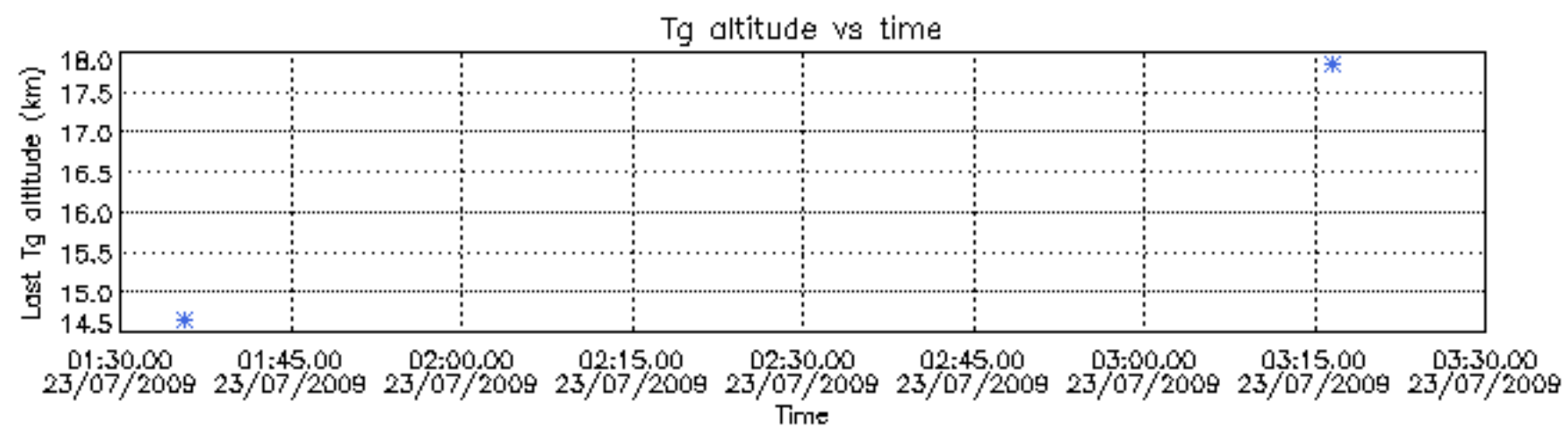
Tangent altitude at which the star is lost

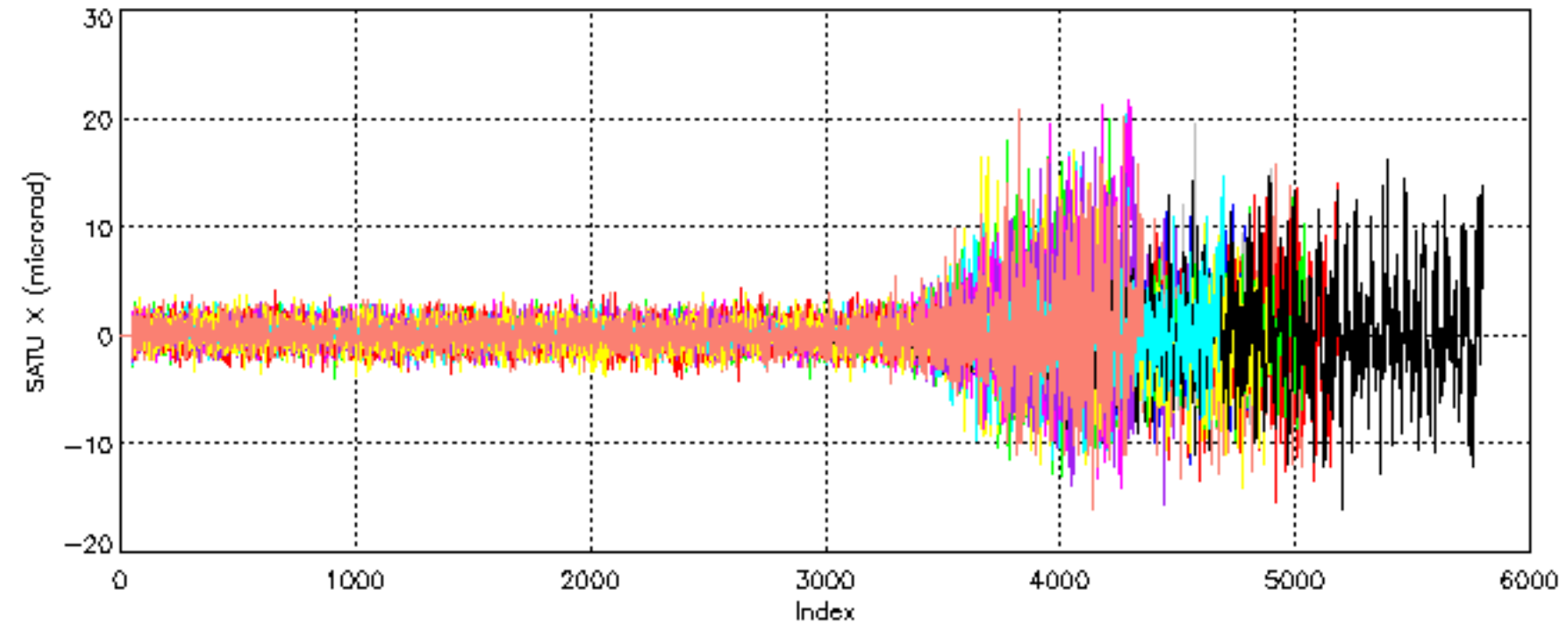


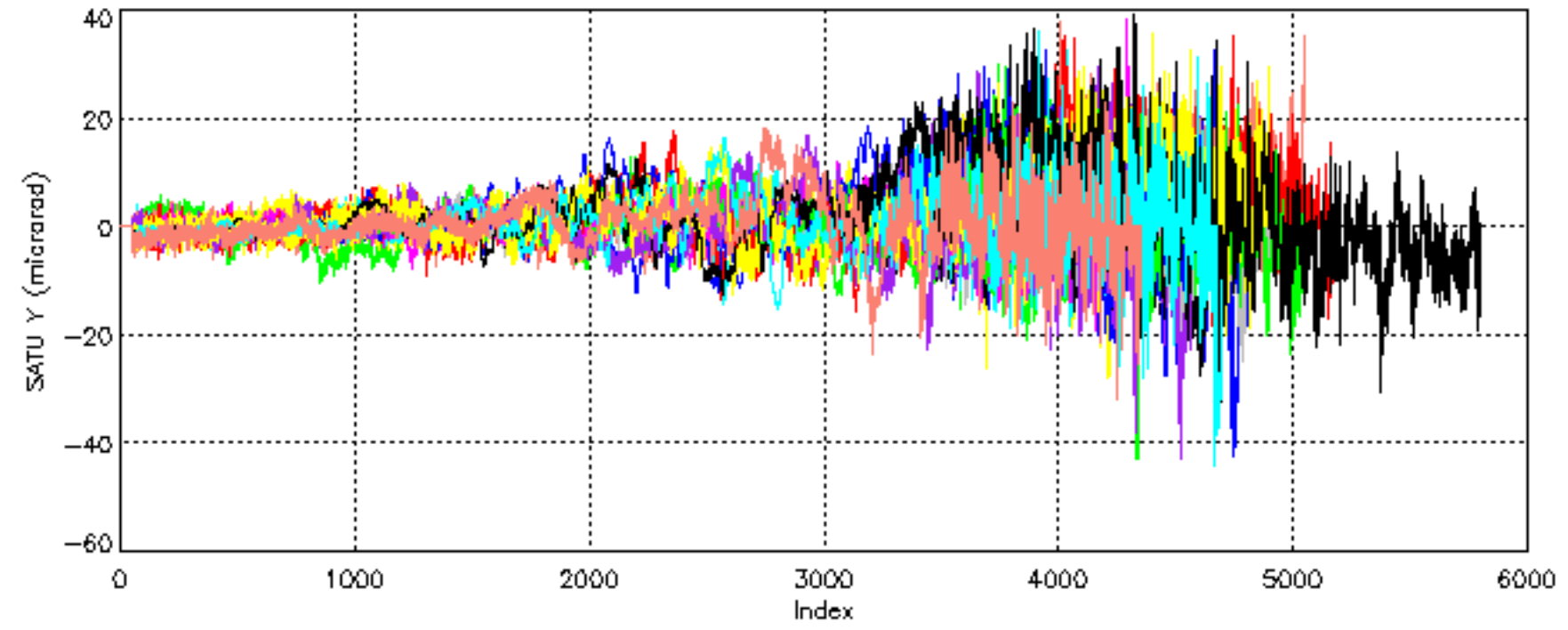
Tangent altitude at which the star is lost

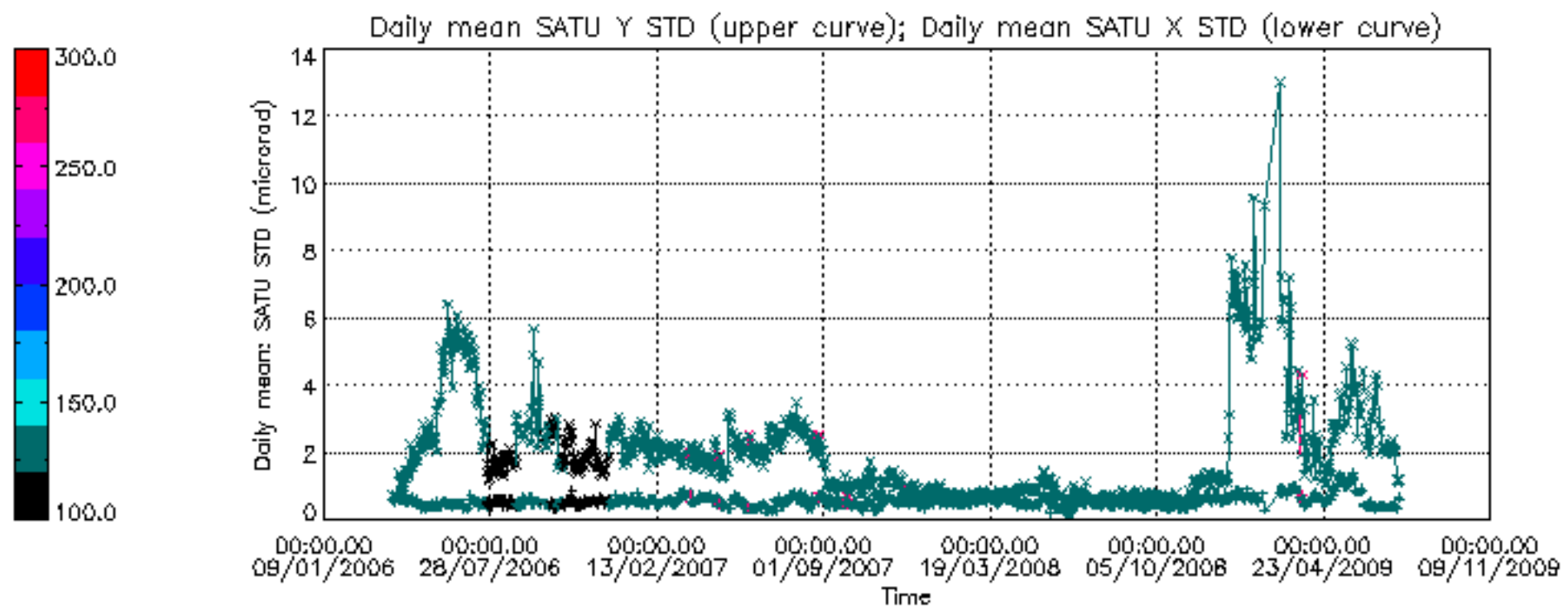


Tangent altitude at which the star is lost









/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__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

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20090701_014033_000044422080_00217_38347_8074.N1

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
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9; 2899.7; 02-JUL-2009 22:13:20; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95; 0;38374
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7; 4265.3; 02-JUL-2009 12:32:30; Bright; 38.0; 73; 57Gam1And ; 2.26; 13100;occ; 76; 0;38368
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 2; 190.5; 07-JUL-2009 02:04:06; Dark ; 52.5; 84; Alp Phe ; 2.40; 4500;occ; 105; 0;38434
 3; 569.6; 07-JUL-2009 02:10:25; Dark ; 64.0; 63; Bet Gru ; 2.15; 2800;occ; 128; 0;38434
 4; 678.8; 07-JUL-2009 02:12:14; Dark ; 52.0; 31; Alp Gru ; 1.73; 15200;occ; 104; 0;38434
 5; 863.9; 07-JUL-2009 02:15:19; Dark ; 57.5; 172; Gam Gru ; 3.00; 13100;occ; 115; 0;38434
 6; 2192.5; 07-JUL-2009 02:37:28; Bright; 48.0; 168; 17Zet Aql ; 2.99; 11000;occ; 96; 0;38434
 7; 2853.9; 07-JUL-2009 02:48:29; Bright; 42.0; 144; 18Del Cyg ; 2.86; 11000;occ; 84; 0;38434
 8; 3286.0; 07-JUL-2009 02:55:41; Bright; 46.5; 89; 5Alp Cep ; 2.45; 8000;occ; 93; 0;38434
 9; 3736.5; 07-JUL-2009 03:03:12; Bright; 46.0; 74; 11Bet Cas ; 2.27; 6600;occ; 92; 0;38434
10; 3849.1; 07-JUL-2009 03:05:05; Bright; 3.0; 110; 37Del Cas ; 2.68; 8900;occ; 6; 0;38434
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 2; -1776.8; 07-JUL-2009 03:11:55; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;38434
 3; -1323.2; 07-JUL-2009 03:19:28; Dark ; 48.5; 50; 13Alp Ari ; 2.01; 4250;occ; 97; 0;38434
 4; -1016.3; 07-JUL-2009 03:24:35; Dark ; 39.0; 94; 92Alp Cet ; 2.53; 3100;occ; 78; 0;38434
 5; -447.6; 07-JUL-2009 03:34:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38434
 6; 191.5; 07-JUL-2009 03:44:43; Dark ; 51.0; 84; Alp Phe ; 2.40; 4500;occ; 102; 0;38435
 7; 570.4; 07-JUL-2009 03:51:02; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;38435
 8; 679.6; 07-JUL-2009 03:52:51; Dark ; 54.5; 31; Alp Gru ; 1.73; 15200;occ; 109; 0;38435
 9; 864.9; 07-JUL-2009 03:55:56; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;38435
10; 2192.3; 07-JUL-2009 04:18:04; Bright; 41.5; 168; 17Zet Aql ; 2.99; 11000;occ; 83; 0;38435
11; 2853.3; 07-JUL-2009 04:29:05; Bright; 45.5; 144; 18Del Cyg ; 2.86; 11000;occ; 91; 0;38435
12; 3285.6; 07-JUL-2009 04:36:17; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38435
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 2; -2187.1; 07-JUL-2009 04:45:40; Bright; 39.5; 110; 37Del Cas ; 2.68; 8900;occ; 79; 0;38435
 3; -1776.9; 07-JUL-2009 04:52:30; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;38435
 4; -1322.9; 07-JUL-2009 05:00:05; Dark ; 48.0; 50; 13Alp Ari ; 2.01; 4250;occ; 96; 0;38435
 5; -1015.7; 07-JUL-2009 05:05:12; Dark ; 40.0; 94; 92Alp Cet ; 2.53; 3100;occ; 80; 0;38435
 6; -446.5; 07-JUL-2009 05:14:41; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38435
 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
10; 865.7; 07-JUL-2009 05:36:33; Dark ; 54.5; 172; Gam Gru ; 3.00; 13100;occ; 109; 0;38436
11; 2192.0; 07-JUL-2009 05:58:39; Bright; 64.0; 168; 17Zet Aql ; 2.99; 11000;occ; 128; 0;38436
12; 2852.5; 07-JUL-2009 06:09:40; Bright; 43.5; 144; 18Del Cyg ; 2.86; 11000;occ; 87; 0;38436
13; 3284.9; 07-JUL-2009 06:16:52; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;38436
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 2; 2188.7; 07-JUL-2009 21:03:59; Bright; 42.0; 168; 17Zet Aql ; 2.99; 11000;occ; 84; 0;38445
 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
 5; 3729.8; 07-JUL-2009 21:29:41; Bright; 64.0; 74; 11Bet Cas ; 2.27; 6600;occ; 128; 0;38445
 6; 3845.2; 07-JUL-2009 21:31:36; Bright; 38.5; 110; 37Del Cas ; 2.68; 8900;occ; 77; 0;38445
 7; 4257.8; 07-JUL-2009 21:38:29; Bright; 46.0; 73; 57Gam1And ; 2.26; 13100;occ; 92; 0;38445
 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
10; 5025.5; 07-JUL-2009 21:51:16; Dark ; 41.0; 94; 92Alp Cet ; 2.53; 3100;occ; 82; 0;38445

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 3; 580.5; 07-JUL-2009 22:17:47; Dark ; 54.0; 63; Bet Gru ; 2.15; 2800;occ; 108; 0;38446
 4; 688.6; 07-JUL-2009 22:19:35; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;38446
 5; 875.0; 07-JUL-2009 22:22:42; Dark ; 55.0; 172; Gam Gru ; 3.00; 13100;occ; 110; 0;38446
 6; 2188.5; 07-JUL-2009 22:44:35; Bright; 44.5; 168; 17Zet Aql ; 2.99; 11000;occ; 89; 0;38446
 7; 2845.2; 07-JUL-2009 22:55:32; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;38446
 8; 3278.4; 07-JUL-2009 23:02:45; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38446
 9; 3729.4; 07-JUL-2009 23:10:16; Bright; 54.5; 74; 11Bet Cas ; 2.27; 6600;occ; 109; 0;38446
 10; 3844.7; 07-JUL-2009 23:12:11; Bright; 40.0; 110; 37Del Cas ; 2.68; 8900;occ; 80; 0;38446
 11; 4257.7; 07-JUL-2009 23:19:04; Bright; 43.5; 73; 57Gam1And ; 2.26; 13100;occ; 87; 0;38446
 12; 4431.8; 07-JUL-2009 23:21:58; Dark ; 43.5; 173; 4Bet Tri ; 3.00; 8900;occ; 87; 0;38446
 13; 4717.8; 07-JUL-2009 23:26:44; Dark ; 30.0; 50; 13Alp Ari ; 2.01; 4250;occ; 60; 0;38446
 14; 5026.1; 07-JUL-2009 23:31:53; Dark ; 39.5; 94; 92Alp Cet ; 2.53; 3100;occ; 79; 0;38446

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 2; 204.7; 07-JUL-2009 23:52:07; Dark ; 50.5; 84; Alp Phe ; 2.40; 4500;occ; 101; 0;38447
 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
 8; 3277.8; 08-JUL-2009 00:43:20; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38447
 9; 3728.8; 08-JUL-2009 00:50:51; Bright; 47.5; 74; 11Bet Cas ; 2.27; 6600;occ; 95; 0;38447
 10; 3844.4; 08-JUL-2009 00:52:47; Bright; 39.0; 110; 37Del Cas ; 2.68; 8900;occ; 78; 0;38447
 11; 4257.7; 08-JUL-2009 00:59:40; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;38447
 12; 4431.9; 08-JUL-2009 01:02:34; Dark ; 43.0; 173; 4Bet Tri ; 3.00; 8900;occ; 86; 0;38447
 13; 4718.2; 08-JUL-2009 01:07:21; Dark ; 30.0; 50; 13Alp Ari ; 2.01; 4250;occ; 60; 0;38447
 14; 5026.5; 08-JUL-2009 01:12:29; Dark ; 39.0; 94; 92Alp Cet ; 2.53; 3100;occ; 78; 0;38447

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1; -2300.7; 07-JUL-2009 06:24:23; Bright; 72.0; 74; 11Bet Cas ; 2.27; 6600;occ; 144; 0;38436
 2; -2187.6; 07-JUL-2009 06:26:16; Bright; 38.5; 110; 37Del Cas ; 2.68; 8900;occ; 77; 0;38436
 3; -1777.0; 07-JUL-2009 06:33:06; Bright; 41.5; 73; 57Gam1And ; 2.26; 13100;occ; 83; 0;38436
 4; -1604.9; 07-JUL-2009 06:35:58; Dark ; 42.5; 173; 4Bet Tri ; 3.00; 8900;occ; 85; 0;38436
 5; -1322.4; 07-JUL-2009 06:40:41; Dark ; 50.0; 50; 13Alp Ari ; 2.01; 4250;occ; 100; 0;38436
 6; -1015.2; 07-JUL-2009 06:45:48; Dark ; 39.0; 94; 92Alp Cet ; 2.53; 3100;occ; 78; 0;38436
 7; -445.4; 07-JUL-2009 06:55:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38436
 8; 193.7; 07-JUL-2009 07:05:57; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;38437
 9; 572.4; 07-JUL-2009 07:12:16; Dark ; 61.0; 63; Bet Gru ; 2.15; 2800;occ; 122; 0;38437
 10; 681.3; 07-JUL-2009 07:14:05; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;38437
 11; 866.6; 07-JUL-2009 07:17:10; Dark ; 55.0; 172; Gam Gru ; 3.00; 13100;occ; 110; 0;38437

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 2; 2851.8; 07-JUL-2009 07:50:15; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95; 0;38437
 3; 3284.4; 07-JUL-2009 07:57:28; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38437
 4; 3734.6; 07-JUL-2009 08:04:58; Bright; 64.5; 74; 11Bet Cas ; 2.27; 6600;occ; 129; 0;38437
 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
 7; 4431.3; 07-JUL-2009 08:16:35; Dark ; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;38437
 8; 4714.1; 07-JUL-2009 08:21:17; Dark ; 48.0; 50; 13Alp Ari ; 2.01; 4250;occ; 96; 0;38437
 9; 5021.3; 07-JUL-2009 08:26:25; Dark ; 39.5; 94; 92Alp Cet ; 2.53; 3100;occ; 79; 0;38437
 10; 5591.6; 07-JUL-2009 08:35:55; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38437
 11; 6230.7; 07-JUL-2009 08:46:34; Dark ; 54.0; 84; Alp Phe ; 2.40; 4500;occ; 108; 0;38437
 12; 6609.2; 07-JUL-2009 08:52:53; Dark ; 65.5; 63; Bet Gru ; 2.15; 2800;occ; 131; 0;38437
 13; 6718.0; 07-JUL-2009 08:54:41; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38437
 14; 6903.8; 07-JUL-2009 08:57:47; Dark ; 53.5; 172; Gam Gru ; 3.00; 13100;occ; 107; 0;38437

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 2; 2851.0; 07-JUL-2009 09:30:50; Bright; 46.5; 144; 18Del Cyg ; 2.86; 11000;occ; 93; 0;38438
 3; 3283.7; 07-JUL-2009 09:38:03; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38438
 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
 8; 4714.5; 07-JUL-2009 10:01:54; Dark ; 49.0; 50; 13Alp Ari ; 2.01; 4250;occ; 98; 0;38438
 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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11; 6231.8; 07-JUL-2009 10:27:11; Dark ; 51.0; 84; Alp Phe ; 2.40; 4500;occ; 102; 0;38438
12; 6610.1; 07-JUL-2009 10:33:29; Dark ; 60.5; 63; Bet Gru ; 2.15; 2800;occ; 121; 0;38438
13; 6718.8; 07-JUL-2009 10:35:18; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38438
14; 6904.6; 07-JUL-2009 10:38:24; Dark ; 54.5; 172; Gam Gru ; 3.00; 13100;occ; 109; 0;38438
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 2; 2850.3; 07-JUL-2009 11:11:25; Bright; 47.0; 144; 18Del Cyg ; 2.86; 11000;occ; 94; 0;38439
 3; 3733.6; 07-JUL-2009 11:26:09; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;38439
 4; 3847.3; 07-JUL-2009 11:28:02; Bright; 38.5; 110; 37Del Cas ; 2.68; 8900;occ; 77; 0;38439
 5; 4258.7; 07-JUL-2009 11:34:54; Bright; 43.0; 73; 57Gam1And ; 2.26; 13100;occ; 86; 0;38439
 6; 4431.1; 07-JUL-2009 11:37:46; Dark ; 42.0; 173; 4Bet Tri ; 3.00; 8900;occ; 84; 0;38439
 7; 4714.9; 07-JUL-2009 11:42:30; Dark ; 48.5; 50; 13Alp Ari ; 2.01; 4250;occ; 97; 0;38439
 8; 5022.3; 07-JUL-2009 11:47:37; Dark ; 39.0; 94; 92Alp Cet ; 2.53; 3100;occ; 78; 0;38439
 9; 5593.7; 07-JUL-2009 11:57:09; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38439
10; 6233.0; 07-JUL-2009 12:07:48; Dark ; 52.5; 84; Alp Phe ; 2.40; 4500;occ; 105; 0;38439
11; 6611.0; 07-JUL-2009 12:14:06; Dark ; 67.0; 63; Bet Gru ; 2.15; 2800;occ; 134; 0;38439
12; 6719.5; 07-JUL-2009 12:15:55; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;38439
13; 6905.6; 07-JUL-2009 12:19:01; Dark ; 56.5; 172; Gam Gru ; 3.00; 13100;occ; 113; 0;38439
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 3; 3282.2; 07-JUL-2009 12:59:13; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;38440
 4; 3732.9; 07-JUL-2009 13:06:44; Bright; 45.0; 74; 11Bet Cas ; 2.27; 6600;occ; 90; 0;38440
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12; 6611.9; 07-JUL-2009 13:54:43; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;38440
13; 6720.4; 07-JUL-2009 13:56:31; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38440
14; 6906.3; 07-JUL-2009 13:59:37; Dark ; 55.0; 172; Gam Gru ; 3.00; 13100;occ; 110; 0;38440
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 2; 2848.7; 07-JUL-2009 14:32:36; Bright; 45.5; 144; 18Del Cyg ; 2.86; 11000;occ; 91; 0;38441
 3; 3281.7; 07-JUL-2009 14:39:49; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38441
 4; 3732.5; 07-JUL-2009 14:47:19; Bright; 52.5; 74; 11Bet Cas ; 2.27; 6600;occ; 105; 0;38441
 5; 3846.8; 07-JUL-2009 14:49:14; Bright; 64.0; 110; 37Del Cas ; 2.68; 8900;occ; 128; 0;38441
 6; 4258.4; 07-JUL-2009 14:56:05; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;38441
 7; 4431.5; 07-JUL-2009 14:58:58; Dark ; 42.5; 173; 4Bet Tri ; 3.00; 8900;occ; 85; 0;38441
 8; 4715.8; 07-JUL-2009 15:03:43; Dark ; 51.0; 50; 13Alp Ari ; 2.01; 4250;occ; 102; 0;38441
 9; 5023.5; 07-JUL-2009 15:08:50; Dark ; 41.5; 94; 92Alp Cet ; 2.53; 3100;occ; 83; 0;38441
10; 5595.9; 07-JUL-2009 15:18:23; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38441
11; 6235.2; 07-JUL-2009 15:29:02; Dark ; 54.0; 84; Alp Phe ; 2.40; 4500;occ; 108; 0;38441
12; 6612.8; 07-JUL-2009 15:35:20; Dark ; 63.5; 63; Bet Gru ; 2.15; 2800;occ; 127; 0;38441
13; 6721.3; 07-JUL-2009 15:37:08; Dark ; 51.5; 31; Alp Gru ; 1.73; 15200;occ; 103; 0;38441
14; 6907.5; 07-JUL-2009 15:40:14; Dark ; 55.0; 172; Gam Gru ; 3.00; 13100;occ; 110; 0;38441
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 8; 4716.1; 07-JUL-2009 16:44:19; Dark ; 47.0; 50; 13Alp Ari ; 2.01; 4250;occ; 94; 0;38442
 9; 5024.0; 07-JUL-2009 16:49:27; Dark ; 41.5; 94; 92Alp Cet ; 2.53; 3100;occ; 83; 0;38442
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13; 6722.1; 07-JUL-2009 17:17:45; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38442
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15; 6800.8; 14-JUL-2009 18:39:32; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38543
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 11; 4629.6; 17-JUL-2009 11:26:43; Dark ; 44.5; 146; 25Eta Tau ; 2.87; 15200;occ; 89; 0;38582
 12; 5117.7; 17-JUL-2009 11:34:51; Dark ; 62.5; 94; 92Alp Cet ; 2.53; 3100;occ; 125; 0;38582
 13; 5469.2; 17-JUL-2009 11:40:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38582
 14; 6394.7; 17-JUL-2009 11:56:08; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38582
 15; 6735.0; 17-JUL-2009 12:01:48; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;38582
 16; 6828.8; 17-JUL-2009 12:03:22; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38582
 17; 7021.9; 17-JUL-2009 12:06:35; Dark ; 50.0; 172; Gam Gru ; 3.00; 13100;occ; 100; 0;38582

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 3;-2000.5; 17-JUL-2009 11:16:48; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;38582
 4;-1917.8; 17-JUL-2009 11:18:11; Bright; 53.0; 35; 33Alp Per ; 1.79; 6250;occ; 106; 0;38582
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 6;-1562.8; 17-JUL-2009 11:24:06; Dark ; 40.0; 150; 44Zet Per ; 2.89; 28000;occ; 80; 0;38582
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 9; -566.7; 17-JUL-2009 11:40:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38582
 10; 358.9; 17-JUL-2009 11:56:08; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38583
 11; 699.2; 17-JUL-2009 12:01:48; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;38583
 12; 793.0; 17-JUL-2009 12:03:22; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38583
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 2; 2765.4; 17-JUL-2009 12:36:14; Bright; 42.0; 144; 18Del Cyg ; 2.86; 11000;occ; 84; 0;38583
 3; 2898.7; 17-JUL-2009 12:38:28; Bright; 50.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 101; 0;38583
 4; 3195.2; 17-JUL-2009 12:43:24; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38583
 5; 3638.7; 17-JUL-2009 12:50:48; Bright; 74.0; 74; 11Bet Cas ; 2.27; 6600;occ; 148; 0;38583
 6; 3755.6; 17-JUL-2009 12:52:44; Bright; 51.0; 68; 18Alp Cas ; 2.22; 4500;occ; 102; 0;38583
 7; 4035.5; 17-JUL-2009 12:57:24; Bright; 62.0; 160; 23Gam Per ; 2.93; 4700;occ; 124; 0;38583
 8; 4118.0; 17-JUL-2009 12:58:47; Bright; 41.5; 35; 33Alp Per ; 1.79; 6250;occ; 83; 0;38583
 9; 4295.9; 17-JUL-2009 13:01:45; Bright; 49.5; 79; 26Bet Per ; 2.31; 13100;occ; 99; 0;38583
 10; 4473.2; 17-JUL-2009 13:04:42; Dark ; 42.0; 150; 44Zet Per ; 2.89; 28000;occ; 84; 0;38583
 11; 4629.9; 17-JUL-2009 13:07:19; Dark ; 42.5; 146; 25Eta Tau ; 2.87; 15200;occ; 85; 0;38583
 12; 5118.5; 17-JUL-2009 13:15:27; Dark ; 62.5; 94; 92Alp Cet ; 2.53; 3100;occ; 125; 0;38583
 13; 5470.2; 17-JUL-2009 13:21:19; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38583
 14; 6395.8; 17-JUL-2009 13:36:45; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38583
 15; 6735.9; 17-JUL-2009 13:42:25; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38583
 16; 6829.6; 17-JUL-2009 13:43:58; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38583
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 2; 2764.9; 17-JUL-2009 14:16:50; Bright; 40.0; 144; 18Del Cyg ; 2.86; 11000;occ; 80; 0;38584
 3; 2897.8; 17-JUL-2009 14:19:03; Bright; 50.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 100; 0;38584
 4; 3194.8; 17-JUL-2009 14:23:59; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38584
 5; 3638.2; 17-JUL-2009 14:31:23; Bright; 74.0; 74; 11Bet Cas ; 2.27; 6600;occ; 148; 0;38584
 6; 3755.1; 17-JUL-2009 14:33:20; Bright; 50.0; 68; 18Alp Cas ; 2.22; 4500;occ; 100; 0;38584
 7; 4035.3; 17-JUL-2009 14:38:00; Bright; 40.0; 160; 23Gam Per ; 2.93; 4700;occ; 80; 0;38584

8; 4117.9; 17-JUL-2009 14:39:23; Bright; 60.0; 35; 33Alp Per ; 1.79; 6250;occ; 120; 0;38584
 9; 4296.3; 17-JUL-2009 14:42:21; Bright; 46.0; 79; 26Bet Per ; 2.31; 13100;occ; 92; 0;38584
 10; 4473.4; 17-JUL-2009 14:45:18; Dark ; 41.0; 150; 44Zet Per ; 2.89; 28000;occ; 82; 0;38584
 11; 4630.3; 17-JUL-2009 14:47:55; Dark ; 41.0; 146; 25Eta Tau ; 2.87; 15200;occ; 82; 0;38584
 12; 5119.3; 17-JUL-2009 14:56:04; Dark ; 72.5; 94; 92Alp Cet ; 2.53; 3100;occ; 145; 0;38584
 13; 5471.2; 17-JUL-2009 15:01:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38584
 14; 6397.1; 17-JUL-2009 15:17:22; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38584
 15; 6736.7; 17-JUL-2009 15:23:01; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38584
 16; 6829.9; 17-JUL-2009 15:24:35; Dark ; 48.5; 31; Alp Gru ; 1.73; 15200;occ; 97; 0;38584
 17; 7023.4; 17-JUL-2009 15:27:48; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38584

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 3; 2897.2; 17-JUL-2009 15:59:38; Bright; 63.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 126; 0;38585
 4; 3194.1; 17-JUL-2009 16:04:35; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38585
 5; 3637.4; 17-JUL-2009 16:11:58; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38585
 6; 3754.4; 17-JUL-2009 16:13:55; Bright; 50.0; 68; 18Alp Cas ; 2.22; 4500;occ; 100; 0;38585
 7; 4035.3; 17-JUL-2009 16:18:36; Bright; 50.0; 160; 23Gam Per ; 2.93; 4700;occ; 100; 0;38585
 8; 4117.9; 17-JUL-2009 16:19:59; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38585
 9; 4296.1; 17-JUL-2009 16:22:57; Bright; 49.0; 79; 26Bet Per ; 2.31; 13100;occ; 98; 0;38585
 10; 4473.3; 17-JUL-2009 16:25:54; Dark ; 42.0; 150; 44Zet Per ; 2.89; 28000;occ; 84; 0;38585
 11; 4630.4; 17-JUL-2009 16:28:31; Dark ; 42.0; 146; 25Eta Tau ; 2.87; 15200;occ; 84; 0;38585
 12; 5120.1; 17-JUL-2009 16:36:41; Dark ; 62.5; 94; 92Alp Cet ; 2.53; 3100;occ; 125; 0;38585
 13; 5472.2; 17-JUL-2009 16:42:33; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38585
 14; 6398.2; 17-JUL-2009 16:57:59; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38585
 15; 6737.7; 17-JUL-2009 17:03:38; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;38585
 16; 6831.1; 17-JUL-2009 17:05:12; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38585
 17; 7024.1; 17-JUL-2009 17:08:25; Dark ; 50.0; 172; Gam Gru ; 3.00; 13100;occ; 100; 0;38585

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 2; 2763.9; 17-JUL-2009 17:38:01; Bright; 42.0; 144; 18Del Cyg ; 2.86; 11000;occ; 84; 0;38586
 3; 2896.2; 17-JUL-2009 17:40:13; Bright; 48.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 97; 0;38586
 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
 6; 3753.6; 17-JUL-2009 17:54:30; Bright; 48.0; 68; 18Alp Cas ; 2.22; 4500;occ; 96; 0;38586
 7; 4034.9; 17-JUL-2009 17:59:12; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;38586
 8; 4117.8; 17-JUL-2009 18:00:34; Bright; 46.5; 35; 33Alp Per ; 1.79; 6250;occ; 93; 0;38586
 9; 4295.9; 17-JUL-2009 18:03:33; Bright; 47.0; 79; 26Bet Per ; 2.31; 13100;occ; 94; 0;38586
 10; 4473.3; 17-JUL-2009 18:06:30; Dark ; 40.5; 150; 44Zet Per ; 2.89; 28000;occ; 81; 0;38586
 11; 4630.5; 17-JUL-2009 18:09:07; Dark ; 43.5; 146; 25Eta Tau ; 2.87; 15200;occ; 87; 0;38586
 12; 5121.0; 17-JUL-2009 18:17:18; Dark ; 60.0; 94; 92Alp Cet ; 2.53; 3100;occ; 120; 0;38586
 13; 5473.2; 17-JUL-2009 18:23:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38586
 14; 6399.4; 17-JUL-2009 18:38:36; Dark ; 58.5; 84; Alp Phe ; 2.40; 4500;occ; 117; 0;38586
 15; 6738.6; 17-JUL-2009 18:44:15; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;38586
 16; 6831.7; 17-JUL-2009 18:45:48; Dark ; 54.0; 31; Alp Gru ; 1.73; 15200;occ; 108; 0;38586
 17; 7024.7; 17-JUL-2009 18:49:01; Dark ; 49.5; 172; Gam Gru ; 3.00; 13100;occ; 99; 0;38586

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 3; 705.6; 18-JUL-2009 01:26:42; Dark ; 61.0; 63; Bet Gru ; 2.15; 2800;occ; 122; 0;38591
 4; 798.4; 18-JUL-2009 01:28:15; Dark ; 56.5; 31; Alp Gru ; 1.73; 15200;occ; 113; 0;38591
 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
 7; 2761.6; 18-JUL-2009 02:00:58; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;38591
 8; 2892.2; 18-JUL-2009 02:03:08; Bright; 48.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 96; 0;38591
 9; 3190.7; 18-JUL-2009 02:08:07; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38591
 10; 3633.0; 18-JUL-2009 02:15:29; Bright; 50.5; 74; 11Bet Cas ; 2.27; 6600;occ; 101; 0;38591
 11; 3750.4; 18-JUL-2009 02:17:27; Bright; 44.0; 68; 18Alp Cas ; 2.22; 4500;occ; 88; 0;38591
 12; 4034.1; 18-JUL-2009 02:22:10; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;38591
 13; 4117.1; 18-JUL-2009 02:23:33; Bright; 60.5; 35; 33Alp Per ; 1.79; 6250;occ; 121; 0;38591

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 2; -1740.2; 18-JUL-2009 02:26:32; Bright; 48.5; 79; 26Bet Per ; 2.31; 13100;occ; 97; 0;38591
 3; -1561.9; 18-JUL-2009 02:29:30; Dark ; 43.5; 150; 44Zet Per ; 2.89; 28000;occ; 87; 0;38591
 4; -910.6; 18-JUL-2009 02:40:21; Dark ; 62.0; 94; 92Alp Cet ; 2.53; 3100;occ; 124; 0;38591
 5; -557.9; 18-JUL-2009 02:46:14; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38591
 6; 369.2; 18-JUL-2009 03:01:41; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38592
 7; 706.5; 18-JUL-2009 03:07:19; Dark ; 55.0; 63; Bet Gru ; 2.15; 2800;occ; 110; 0;38592

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9; 992.5; 18-JUL-2009 03:12:05; Dark ; 52.0; 172; Gam Gru ; 3.00; 13100;occ; 104; 0;38592
10; 2153.3; 18-JUL-2009 03:31:25; Bright; 38.0; 168; 17Zet Aql ; 2.99; 11000;occ; 76; 0;38592
11; 2761.3; 18-JUL-2009 03:41:33; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;38592
12; 2891.3; 18-JUL-2009 03:43:43; Bright; 45.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 91; 0;38592
13; 3190.1; 18-JUL-2009 03:48:42; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38592
14; 3632.4; 18-JUL-2009 03:56:05; Bright; 6.0; 74; 11Bet Cas ; 2.27; 6600;occ; 12; 0;38592
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3;-2002.2; 18-JUL-2009 04:02:46; Bright; 44.0; 160; 23Gam Per ; 2.93; 4700;occ; 88; 0;38592
4;-1919.1; 18-JUL-2009 04:04:09; Bright; 42.5; 35; 33Alp Per ; 1.79; 6250;occ; 85; 0;38592
5;-1740.2; 18-JUL-2009 04:07:08; Bright; 46.0; 79; 26Bet Per ; 2.31; 13100;occ; 92; 0;38592
6;-1561.8; 18-JUL-2009 04:10:06; Dark ; 43.5; 150; 44Zet Per ; 2.89; 28000;occ; 87; 0;38592
7; -910.0; 18-JUL-2009 04:20:58; Dark ; 64.0; 94; 92Alp Cet ; 2.53; 3100;occ; 128; 0;38592
8; -556.8; 18-JUL-2009 04:26:51; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38592
9; 370.3; 18-JUL-2009 04:42:18; Dark ; 56.5; 84; Alp Phe ; 2.40; 4500;occ; 113; 0;38593
10; 707.4; 18-JUL-2009 04:47:56; Dark ; 60.5; 63; Bet Gru ; 2.15; 2800;occ; 121; 0;38593
11; 799.7; 18-JUL-2009 04:49:28; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38593
12; 993.1; 18-JUL-2009 04:52:41; Dark ; 51.0; 172; Gam Gru ; 3.00; 13100;occ; 102; 0;38593
13; 2153.1; 18-JUL-2009 05:12:01; Bright; 37.5; 168; 17Zet Aql ; 2.99; 11000;occ; 75; 0;38593
14; 2760.8; 18-JUL-2009 05:22:09; Bright; 40.5; 144; 18Del Cyg ; 2.86; 11000;occ; 81; 0;38593
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16; 3189.6; 18-JUL-2009 05:29:18; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38593
17; 3631.6; 18-JUL-2009 05:36:40; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;38593
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2;-2287.1; 18-JUL-2009 05:38:37; Bright; 43.0; 68; 18Alp Cas ; 2.22; 4500;occ; 86; 0;38593
3;-2002.4; 18-JUL-2009 05:43:22; Bright; 42.5; 160; 23Gam Per ; 2.93; 4700;occ; 85; 0;38593
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5;-1740.4; 18-JUL-2009 05:47:44; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38593
6;-1561.7; 18-JUL-2009 05:50:42; Dark ; 46.5; 150; 44Zet Per ; 2.89; 28000;occ; 93; 0;38593
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9; 371.6; 18-JUL-2009 06:22:56; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38594
10; 708.2; 18-JUL-2009 06:28:32; Dark ; 61.0; 63; Bet Gru ; 2.15; 2800;occ; 122; 0;38594
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12; 993.9; 18-JUL-2009 06:33:18; Dark ; 54.5; 172; Gam Gru ; 3.00; 13100;occ; 109; 0;38594
13; 2153.1; 18-JUL-2009 06:52:37; Bright; 39.0; 168; 17Zet Aql ; 2.99; 11000;occ; 78; 0;38594
14; 2760.2; 18-JUL-2009 07:02:44; Bright; 40.5; 144; 18Del Cyg ; 2.86; 11000;occ; 81; 0;38594
15; 2889.7; 18-JUL-2009 07:04:54; Bright; 48.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 97; 0;38594
16; 3189.0; 18-JUL-2009 07:09:53; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38594
17; 3631.2; 18-JUL-2009 07:17:15; Bright; 58.0; 74; 11Bet Cas ; 2.27; 6600;occ; 116; 0;38594
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3; 2756.5; 18-JUL-2009 20:27:28; Bright; 40.0; 144; 18Del Cyg ; 2.86; 11000;occ; 80; 0;38602
4; 2883.4; 18-JUL-2009 20:29:35; Bright; 50.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 100; 0;38602
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6; 3625.2; 18-JUL-2009 20:41:57; Bright; 74.0; 74; 11Bet Cas ; 2.27; 6600;occ; 148; 0;38602
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5; 3587.7; 22-JUL-2009 10:11:51; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38653
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12; 5339.8; 22-JUL-2009 14:02:15; Dark ; 48.5; 165; 34Gam Eri ; 2.95; 3200;occ; 97; 0;38655
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4; 3155.7; 22-JUL-2009 15:06:27; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38656
5; 3585.6; 22-JUL-2009 15:13:37; Bright; 50.0; 74; 11Bet Cas ; 2.27; 6600;occ; 100; 0;38656
6; 3751.4; 22-JUL-2009 15:16:23; Bright; 42.5; 110; 37Del Cas ; 2.68; 8900;occ; 85; 0;38656
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 7; 1038.7; 23-JUL-2009 02:15:21; Dark ; 48.0; 172; Gam Gru ; 3.00; 13100;occ; 96; 0;38663
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 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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 13; 5582.4; 24-JUL-2009 14:43:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38684
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8; 4100.5; 25-JUL-2009 12:06:45; Bright; 46.5; 35; 33Alp Per ; 1.79; 6250;occ; 93; 0;38697
9; 4288.0; 25-JUL-2009 12:09:52; Bright; 53.5; 79; 26Bet Per ; 2.31; 13100;occ; 107; 0;38697
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13; 5368.9; 25-JUL-2009 12:27:53; Dark ; 47.5; 165; 34Gam Eri ; 2.95; 3200;occ; 95; 0;38697
14; 5599.1; 25-JUL-2009 12:31:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38697
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16; 6526.5; 25-JUL-2009 12:47:11; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38697
17; 6903.4; 25-JUL-2009 12:53:28; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38697
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7; 4100.3; 25-JUL-2009 13:47:21; Bright; 65.0; 35; 33Alp Per ; 1.79; 6250;occ; 130; 0;38698

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 11; 4757.1; 25-JUL-2009 13:58:17; Dark ; 49.5; 13; 87Alp Tau ; 0.87; 3800;occ; 99; 0;38698
 12; 5369.8; 25-JUL-2009 14:08:30; Dark ; 49.0; 165; 34Gam Eri ; 2.95; 3200;occ; 98; 0;38698
 13; 5600.4; 25-JUL-2009 14:12:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38698
 14; 5928.6; 25-JUL-2009 14:17:49; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;38698
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 16; 6904.1; 25-JUL-2009 14:34:04; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;38698
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 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
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 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
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 17; 6904.7; 25-JUL-2009 16:14:41; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;38699
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 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
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 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
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 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
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 16; 6530.0; 25-JUL-2009 17:49:02; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 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
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 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
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 12; 4662.8; 25-JUL-2009 18:58:31; Dark ; 49.0; 146; 25Eta Tau ; 2.87; 15200;occ; 98; 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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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
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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
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 3; 2798.6; 27-JUL-2009 17:24:13; Bright; 43.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 86; 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
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