

GOMOS Daily Report 30-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	02AUG2009 05:03:55
Data source version	GOMOS/5.00
Start time of products	30JUL2009 00:06:42
Stop time of products	30JUL2009 23:51:52
Store outputs in DB	Yes
Nb of level 1b prods	92
Nb of prods with errors	2

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

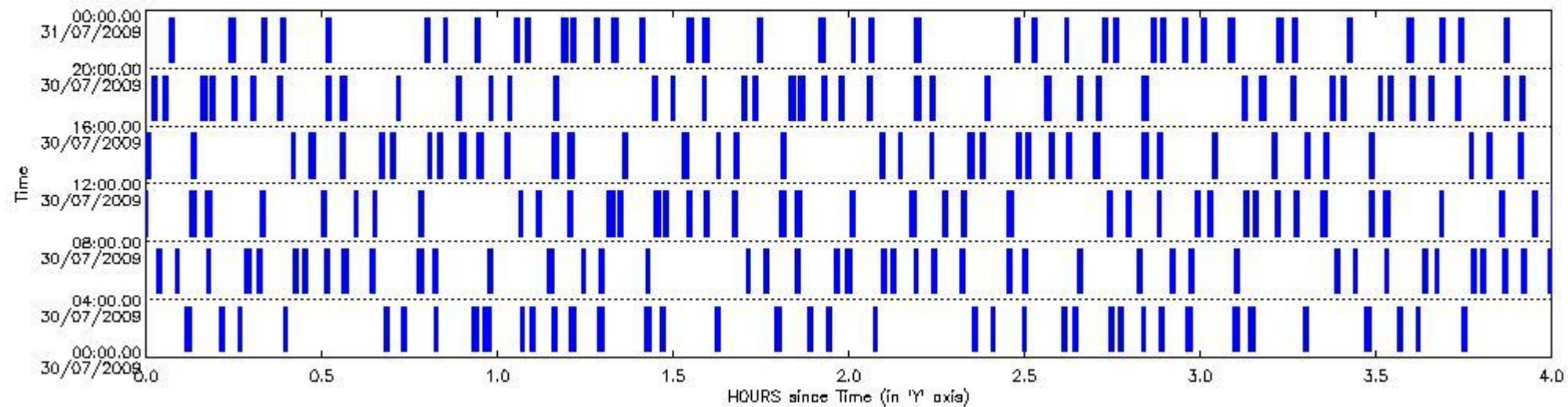
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

No missing products.

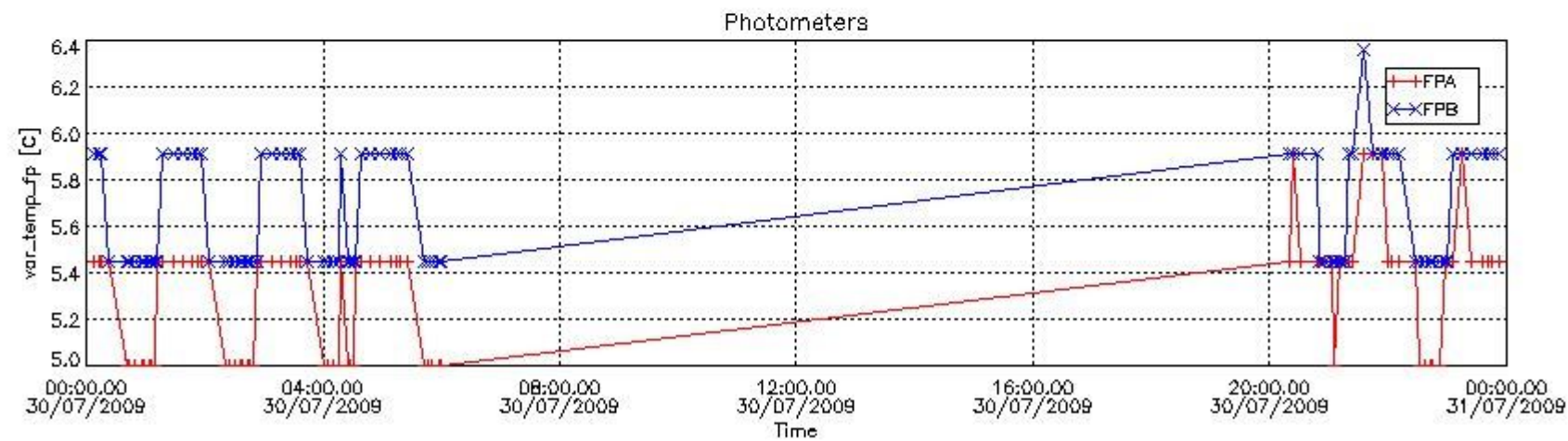
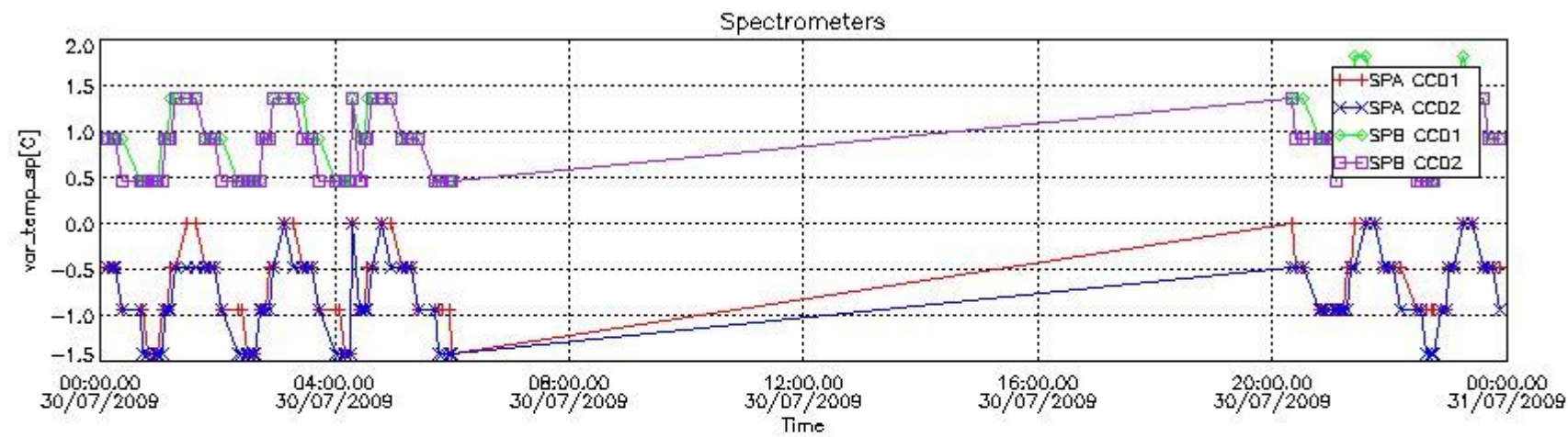
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090730_000642_000000552081_00131_38762_0543.N1	30-JUL-2009 00:06:42	Straylight	55.000	84	Alp Phe	2.3970	4500.0	110	38762	No
2	GOM_TRA_1PNPDE20090730_001224_000000462081_00131_38762_0544.N1	30-JUL-2009 00:12:24	Straylight	45.500	31	Alp Gru	1.7340	15200.	91	38762	No
3	GOM_TRA_1PNPDE20090730_001534_000000472081_00131_38762_0545.N1	30-JUL-2009 00:15:34	Straylight	46.500	172	Gam Gru	3.0030	13100.	93	38762	No
4	GOM_TRA_1PNPDE20090730_002328_000000382081_00131_38762_0546.N1	30-JUL-2009 00:23:28	Bright	38.000	142	49Del Cap	2.8500	8900.0	76	38762	No
5	GOM_TRA_1PNPDE20090730_004036_000000462081_00131_38762_0547.N1	30-JUL-2009 00:40:36	Bright	45.500	92	53Eps Cyg	2.5000	4500.0	91	38762	No
6	GOM_TRA_1PNPDE20090730_004341_000000492081_00131_38762_0548.N1	30-JUL-2009 00:43:41	Bright	48.500	19	50Alp Cyg	1.2460	10500.	97	38762	No
7	GOM_TRA_1PNPDE20090730_004904_000000402081_00131_38762_0549.N1	30-JUL-2009 00:49:04	Bright	39.500	89	5Alp Cep	2.4510	8000.0	79	38762	No
8	GOM_TRA_1PNPDE20090730_005542_000000522081_00131_38762_0550.N1	30-JUL-2009 00:55:42	Bright	52.000	74	11Bet Cas	2.2680	6600.0	104	38762	No
9	GOM_TRA_1PNPDE20090730_005736_000000722081_00131_38762_0551.N1	30-JUL-2009 00:57:36	Bright	72.000	76	27Gam Cas	2.3000	30000.	144	38762	No
10	GOM_TRA_1PNPDE20090730_010349_000000442081_00131_38762_0552.N1	30-JUL-2009 01:03:49	Bright	44.000	160	23Gam Per	2.9300	4700.0	88	38762	No
11	GOM_TRA_1PNPDE20090730_010526_000000522081_00131_38762_0553.N1	30-JUL-2009 01:05:26	Bright	51.500	35	33Alp Per	1.7950	6250.0	103	38762	No
12	GOM_TRA_1PNPDE20090730_010917_000000452081_00131_38762_0554.N1	30-JUL-2009 01:09:17	Bright	45.000	149	45Eps Per	2.8880	30000.	90	38762	No

13	GOM_TRA_1PNPDE20090730_011217_00000532081_00131_38762_0555.N1	30-JUL-2009 01:12:17	Twilight	52.500	150	44Zet Per	2.8900	28000.	105	38762	No
14	GOM_TRA_1PNPDE20090730_011659_00000622081_00131_38762_0556.N1	30-JUL-2009 01:16:59	Dark	62.000	13	87Alp Tau	0.86700	3800.0	124	38762	No
15	GOM_TRA_1PNPDE20090730_012741_00000552081_00131_38762_0678.N1	30-JUL-2009 01:27:41	Dark	55.000	165	34Gam Eri	2.9500	3200.0	110	38762	No
16	GOM_TRA_1PNPDE20090730_013705_00000462081_00131_38762_0679.N1	30-JUL-2009 01:37:05	Dark	46.000	157	The1Eri	2.9060	9300.0	92	38762	No
17	GOM_TRA_1PNPDE20090730_014719_00000652081_00132_38763_0680.N1	30-JUL-2009 01:47:19	Straylight	65.000	84	Alp Phe	2.3970	4500.0	130	38763	No
18	GOM_TRA_1PNPDE20090730_015300_00000442081_00132_38763_0681.N1	30-JUL-2009 01:53:00	Straylight	44.000	31	Alp Gru	1.7340	15200.	88	38763	No
19	GOM_TRA_1PNPDE20090730_015610_00000472081_00132_38763_0682.N1	30-JUL-2009 01:56:10	Straylight	46.500	172	Gam Gru	3.0030	13100.	93	38763	No
20	GOM_TRA_1PNPDE20090730_020404_00000382081_00132_38763_0683.N1	30-JUL-2009 02:04:04	Bright	38.000	142	49Del Cap	2.8500	8900.0	76	38763	No
21	GOM_TRA_1PNPDE20090730_022111_00000462081_00132_38763_0684.N1	30-JUL-2009 02:21:11	Bright	45.500	92	53Eps Cyg	2.5000	4500.0	91	38763	No
22	GOM_TRA_1PNPDE20090730_022416_00000392081_00132_38763_0685.N1	30-JUL-2009 02:24:16	Bright	39.000	19	50Alp Cyg	1.2460	10500.	78	38763	No
23	GOM_TRA_1PNPDE20090730_022939_00000372081_00132_38763_0686.N1	30-JUL-2009 02:29:39	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	38763	No
24	GOM_TRA_1PNPDE20090730_023618_00000512081_00132_38763_0687.N1	30-JUL-2009 02:36:18	Bright	50.500	74	11Bet Cas	2.2680	6600.0	101	38763	No
25	GOM_TRA_1PNPDE20090730_023812_00000492081_00132_38763_0688.N1	30-JUL-2009 02:38:12	Bright	48.500	76	27Gam Cas	2.3000	30000.	97	38763	No
26	GOM_TRA_1PNPDE20090730_024425_00000492081_00132_38763_0829.N1	30-JUL-2009 02:44:25	Bright	48.500	160	23Gam Per	2.9300	4700.0	97	38763	No
27	GOM_TRA_1PNPDE20090730_024602_00000502081_00132_38763_0830.N1	30-JUL-2009 02:46:02	Bright	49.500	35	33Alp Per	1.7950	6250.0	99	38763	No
28	GOM_TRA_1PNPDE20090730_024952_00000462081_00132_38763_0831.N1	30-JUL-2009 02:49:52	Bright	45.500	149	45Eps Per	2.8880	30000.	91	38763	No
29	GOM_TRA_1PNPDE20090730_025253_00000522081_00132_38763_0832.N1	30-JUL-2009 02:52:53	Twilight	51.500	150	44Zet Per	2.8900	28000.	103	38763	No
30	GOM_TRA_1PNPDE20090730_025735_00000532081_00132_38763_0833.N1	30-JUL-2009 02:57:35	Dark	53.000	13	87Alp Tau	0.86700	3800.0	106	38763	No
31	GOM_TRA_1PNPDE20090730_030818_00000582081_00132_38763_0834.N1	30-JUL-2009 03:08:18	Dark	58.000	165	34Gam Eri	2.9500	3200.0	116	38763	No
32	GOM_TRA_1PNPDE20090730_031742_00000462081_00132_38763_0835.N1	30-JUL-2009 03:17:42	Dark	45.500	157	The1Eri	2.9060	9300.0	91	38763	No
33	GOM_TRA_1PNPDE20090730_032756_00000642081_00133_38764_0836.N1	30-JUL-2009 03:27:56	Straylight	64.000	84	Alp Phe	2.3970	4500.0	128	38764	No
34	GOM_TRA_1PNPDE20090730_033337_00000462081_00133_38764_0837.N1	30-JUL-2009 03:33:37	Straylight	45.500	31	Alp Gru	1.7340	15200.	91	38764	No
35	GOM_TRA_1PNPDE20090730_033647_00000462081_00133_38764_0838.N1	30-JUL-2009 03:36:47	Straylight	46.000	172	Gam Gru	3.0030	13100.	92	38764	No
36	GOM_TRA_1PNPDE20090730_034440_00000432081_00133_38764_0839.N1	30-JUL-2009 03:44:40	Bright	43.000	142	49Del Cap	2.8500	8900.0	86	38764	No
37	GOM_TRA_1PNPDE20090730_040146_00000462081_00133_38764_0840.N1	30-JUL-2009 04:01:46	Bright	46.000	92	53Eps Cyg	2.5000	4500.0	92	38764	No
38	GOM_TRA_1PNPDE20090730_040452_00000432081_00133_38764_0841.N1	30-JUL-2009 04:04:52	Bright	43.000	19	50Alp Cyg	1.2460	10500.	86	38764	No
39	GOM_TRA_1PNPDE20090730_041015_00000402081_00133_38764_0842.N1	30-JUL-2009 04:10:15	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	38764	No
40	GOM_TRA_1PNPDE20090730_041653_00000512081_00133_38764_0843.N1	30-JUL-2009 04:16:53	Bright	51.000	74	11Bet Cas	2.2680	6600.0	102	38764	No
41	GOM_TRA_1PNPDE20090730_041847_00000512081_00133_38764_0982.N1	30-JUL-2009 04:18:47	Bright	50.500	76	27Gam Cas	2.3000	30000.	101	38764	Yes
42	GOM_TRA_1PNPDE20090730_042501_00000462081_00133_38764_0983.N1	30-JUL-2009 04:25:01	Bright	46.000	160	23Gam Per	2.9300	4700.0	92	38764	No
43	GOM_TRA_1PNPDE20090730_042638_00000462081_00133_38764_0984.N1	30-JUL-2009 04:26:38	Bright	46.000	35	33Alp Per	1.7950	6250.0	92	38764	No
44	GOM_TRA_1PNPDE20090730_043028_00000472081_00133_38764_0985.N1	30-JUL-2009 04:30:28	Bright	47.000	149	45Eps Per	2.8880	30000.	94	38764	No
45	GOM_TRA_1PNPDE20090730_043330_00000522081_00133_38764_0986.N1	30-JUL-2009 04:33:30	Twilight	51.500	150	44Zet Per	2.8900	28000.	103	38764	No
46	GOM_TRA_1PNPDE20090730_043811_00000542081_00133_38764_0987.N1	30-JUL-2009 04:38:11	Dark	54.000	13	87Alp Tau	0.86700	3800.0	108	38764	No
47	GOM_TRA_1PNPDE20090730_044855_00000542081_00133_38764_0988.N1	30-JUL-2009 04:48:55	Dark	54.000	165	34Gam Eri	2.9500	3200.0	108	38764	No
48	GOM_TRA_1PNPDE20090730_045819_00000462081_00133_38764_0989.N1	30-JUL-2009 04:58:19	Dark	46.000	157	The1Eri	2.9060	9300.0	92	38764	No
49	GOM_TRA_1PNPDE20090730_050833_00000552081_00134_38765_0990.N1	30-JUL-2009 05:08:33	Straylight	55.000	84	Alp Phe	2.3970	4500.0	110	38765	No
50	GOM_TRA_1PNPDE20090730_051414_00000462081_00134_38765_0991.N1	30-JUL-2009 05:14:14	Straylight	45.500	31	Alp Gru	1.7340	15200.	91	38765	No
51	GOM_TRA_1PNPDE20090730_051723_00000462081_00134_38765_0992.N1	30-JUL-2009 05:17:23	Straylight	46.000	172	Gam Gru	3.0030	13100.	92	38765	No
52	GOM_TRA_1PNPDE20090730_052516_00000432081_00134_38765_0993.N1	30-JUL-2009 05:25:16	Bright	43.000	142	49Del Cap	2.8500	8900.0	86	38765	No
53	GOM_TRA_1PNPDE20090730_054222_00000442081_00134_38765_0994.N1	30-JUL-2009 05:42:22	Bright	43.500	92	53Eps Cyg	2.5000	4500.0	87	38765	No
54	GOM_TRA_1PNPDE20090730_054527_00000432081_00134_38765_0995.N1	30-JUL-2009 05:45:27	Bright	42.500	19	50Alp Cyg	1.2460	10500.	85	38765	No
55	GOM_TRA_1PNPDE20090730_055050_00000402081_00134_38765_0996.N1	30-JUL-2009 05:50:50	Bright	40.000	89	5Alp Cep	2.4510	8000.0	80	38765	No
56	GOM_TRA_1PNPDE20090730_055728_00000532081_00134_38765_0997.N1	30-JUL-2009 05:57:28	Bright	52.500	74	11Bet Cas	2.2680	6600.0	105	38765	No
57	GOM_TRA_1PNPDE20090730_055922_00000722081_00134_38765_0998.N1	30-JUL-2009 05:59:22	Bright	71.500	76	27Gam Cas	2.3000	30000.	143	38765	No
58	GOM_TRA_1PNPDE20090730_201942_00000452081_00143_38774_1710.N1	30-JUL-2009 20:19:42	Straylight	44.500	31	Alp Gru	1.7340	15200.	89	38774	Yes
59	GOM_TRA_1PNPDE20090730_202251_00000452081_00143_38774_1711.N1	30-JUL-2009 20:22:51	Straylight	45.000	172	Gam Gru	3.0030	13100.	90	38774	No
60	GOM_TRA_1PNPDE20090730_203040_00000542081_00143_38774_1712.N1	30-JUL-2009 20:30:40	Bright	53.500	142	49Del Cap	2.8500	8900.0	107	38774	No
61	GOM_TRA_1PNPDE20090730_204740_00000452081_00143_38774_1713.N1	30-JUL-2009 20:47:40	Bright	44.500	92	53Eps Cyg	2.5000	4500.0	89	38774	No
62	GOM_TRA_1PNPDE20090730_205046_00000392081_00143_38774_1714.N1	30-JUL-2009 20:50:46	Bright	39.000	19	50Alp Cyg	1.2460	10500.	78	38774	No
63	GOM_TRA_1PNPDE20090730_205610_00000412081_00143_38774_1715.N1	30-JUL-2009 20:56:10	Bright	41.000	89	5Alp Cep	2.4510	8000.0	82	38774	No
64	GOM_TRA_1PNPDE20090730_210244_00000522081_00143_38774_1716.N1	30-JUL-2009 21:02:44	Bright	51.500	74	11Bet Cas	2.2680	6600.0	103	38774	No
65	GOM_TRA_1PNPDE20090730_210439_00000502081_00143_38774_1717.N1	30-JUL-2009 21:04:39	Bright	50.000	76	27Gam Cas	2.3000	30000.	100	38774	No
66	GOM_TRA_1PNPDE20090730_211056_00000592081_00143_38774_1718.N1	30-JUL-2009 21:10:56	Bright	58.500	160	23Gam Per	2.9300	4700.0	117	38774	No
67	GOM_TRA_1PNPDE20090730_211234_00000512081_00143_38774_1719.N1	30-JUL-2009 21:12:34	Bright	51.000	35	33Alp Per	1.7950	6250.0	102	38774	No
68	GOM_TRA_1PNPDE20090730_211628_00000492081_00143_38774_1720.N1	30-JUL-2009 21:16:28	Bright	48.500	149	45Eps Per	2.8880	30000.	97	38774	No
69	GOM_TRA_1PNPDE20090730_211930_00000552081_00143_38774_1721.N1	30-JUL-2009 21:19:30	Twilight	54.500	150	44Zet Per	2.8900	28000.	109	38774	No
70	GOM_TRA_1PNPDE20090730_212415_00000552081_00143_38774_1722.N1	30-JUL-2009 21:24:15	Dark	55.000	13	87Alp Tau	0.86700	3800.0	110	38774	No
71	GOM_TRA_1PNPDE20090730_213503_00000532081_00143_38774_1868.N1	30-JUL-2009 21:35:03	Dark	53.000	165	34Gam Eri	2.9500	3200.0	106	38774	No

72	GOM_TRA_1PNPDE20090730_214428_000000452081_00143_38774_1869.N1	30-JUL-2009 21:44:28	Dark	45.000	157	The1Eri	2.9060	9300.0	90	38774	No
73	GOM_TRA_1PNPDE20090730_215443_000000662081_00144_38775_1870.N1	30-JUL-2009 21:54:43	Straylight	65.500	84	Alp Phe	2.3970	4500.0	131	38775	No
74	GOM_TRA_1PNPDE20090730_220019_000000442081_00144_38775_1871.N1	30-JUL-2009 22:00:19	Straylight	43.500	31	Alp Gru	1.7340	15200.	87	38775	No
75	GOM_TRA_1PNPDE20090730_220328_000000442081_00144_38775_1872.N1	30-JUL-2009 22:03:28	Straylight	44.000	172	Gam Gru	3.0030	13100.	88	38775	No
76	GOM_TRA_1PNPDE20090730_221116_000000532081_00144_38775_1873.N1	30-JUL-2009 22:11:16	Bright	52.500	142	49Del Cap	2.8500	8900.0	105	38775	No
77	GOM_TRA_1PNPDE20090730_222815_000000452081_00144_38775_1874.N1	30-JUL-2009 22:28:15	Bright	44.500	92	53Eps Cyg	2.5000	4500.0	89	38775	No
78	GOM_TRA_1PNPDE20090730_223121_000000442081_00144_38775_1875.N1	30-JUL-2009 22:31:21	Bright	44.000	19	50Alp Cyg	1.2460	10500.	88	38775	No
79	GOM_TRA_1PNPDE20090730_223645_000000372081_00144_38775_1876.N1	30-JUL-2009 22:36:45	Bright	37.000	89	5Alp Cep	2.4510	8000.0	74	38775	No
80	GOM_TRA_1PNPDE20090730_224319_000000482081_00144_38775_1877.N1	30-JUL-2009 22:43:19	Bright	47.500	74	11Bet Cas	2.2680	6600.0	95	38775	No
81	GOM_TRA_1PNPDE20090730_224515_000000502081_00144_38775_1878.N1	30-JUL-2009 22:45:15	Bright	50.000	76	27Gam Cas	2.3000	30000.	100	38775	No
82	GOM_TRA_1PNPDE20090730_225132_000000512081_00144_38775_1879.N1	30-JUL-2009 22:51:32	Bright	50.500	160	23Gam Per	2.9300	4700.0	101	38775	No
83	GOM_TRA_1PNPDE20090730_225310_000000472081_00144_38775_1880.N1	30-JUL-2009 22:53:10	Bright	47.000	35	33Alp Per	1.7950	6250.0	94	38775	No
84	GOM_TRA_1PNPDE20090730_225703_000000472081_00144_38775_1881.N1	30-JUL-2009 22:57:03	Bright	46.500	149	45Eps Per	2.8880	30000.	93	38775	No
85	GOM_TRA_1PNPDE20090730_230006_000000532081_00144_38775_1882.N1	30-JUL-2009 23:00:06	Twilight_stray	52.500	150	44Zet Per	2.8900	28000.	105	38775	No
86	GOM_TRA_1PNPDE20090730_230451_000000582081_00144_38775_1883.N1	30-JUL-2009 23:04:51	Dark	57.500	13	87Alp Tau	0.86700	3800.0	115	38775	No
87	GOM_TRA_1PNPDE20090730_231540_000000572081_00144_38775_2027.N1	30-JUL-2009 23:15:40	Dark	56.500	165	34Gam Eri	2.9500	3200.0	113	38775	No
88	GOM_TRA_1PNPDE20090730_232505_000000462081_00144_38775_2028.N1	30-JUL-2009 23:25:05	Dark	46.000	157	The1Eri	2.9060	9300.0	92	38775	No
89	GOM_TRA_1PNPDE20090730_233520_000000542081_00145_38776_2029.N1	30-JUL-2009 23:35:20	Straylight	53.500	84	Alp Phe	2.3970	4500.0	107	38776	No
90	GOM_TRA_1PNPDE20090730_234055_000000452081_00145_38776_2030.N1	30-JUL-2009 23:40:55	Straylight	44.500	31	Alp Gru	1.7340	15200.	89	38776	No
91	GOM_TRA_1PNPDE20090730_234404_000000472081_00145_38776_2031.N1	30-JUL-2009 23:44:04	Straylight	46.500	172	Gam Gru	3.0030	13100.	93	38776	No
92	GOM_TRA_1PNPDE20090730_235152_000000552081_00145_38776_2032.N1	30-JUL-2009 23:51:52	Bright	54.500	142	49Del Cap	2.8500	8900.0	109	38776	No

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



4. Overview of dark signal processing per product

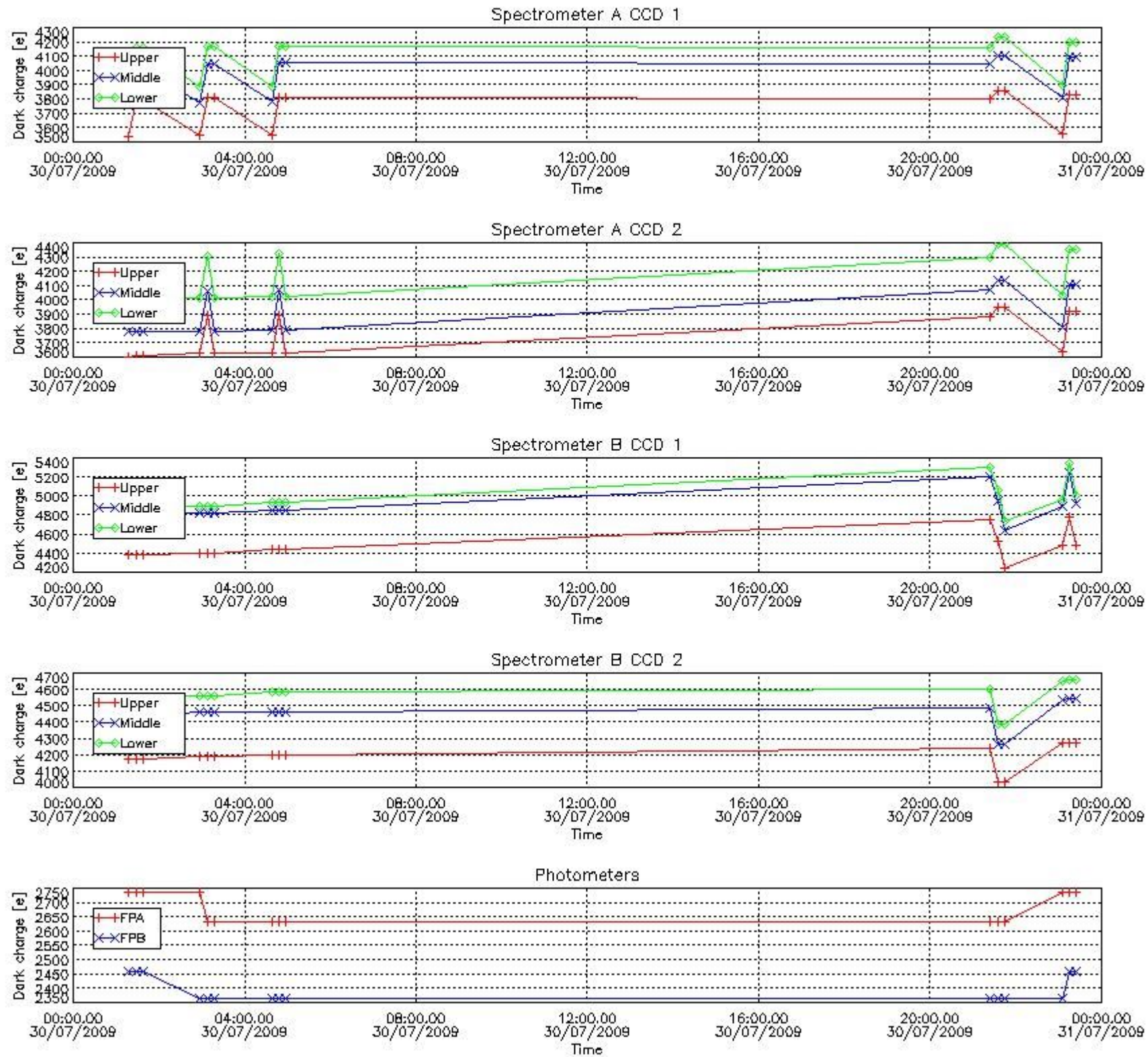
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090730_201942_000000452081_00143_38774_1710.N1	DC map with no T dep.
GOM_TRA_1PNPDE20090730_202251_000000452081_00143_38774_1711.N1	DC map used
GOM_TRA_1PNPDE20090730_203040_000000542081_00143_38774_1712.N1	DC map used
GOM_TRA_1PNPDE20090730_204740_000000452081_00143_38774_1713.N1	DC map used
GOM_TRA_1PNPDE20090730_205046_000000392081_00143_38774_1714.N1	DC map used
GOM_TRA_1PNPDE20090730_205610_000000412081_00143_38774_1715.N1	DC map used
GOM_TRA_1PNPDE20090730_210244_000000522081_00143_38774_1716.N1	DC map used
GOM_TRA_1PNPDE20090730_210439_000000502081_00143_38774_1717.N1	DC map used
GOM_TRA_1PNPDE20090730_211056_000000592081_00143_38774_1718.N1	DC map used
GOM_TRA_1PNPDE20090730_211234_000000512081_00143_38774_1719.N1	DC map used
GOM_TRA_1PNPDE20090730_211628_000000492081_00143_38774_1720.N1	DC map used
GOM_TRA_1PNPDE20090730_211930_000000552081_00143_38774_1721.N1	DC map used
GOM_TRA_1PNPDE20090730_212415_000000552081_00143_38774_1722.N1	DC map used

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



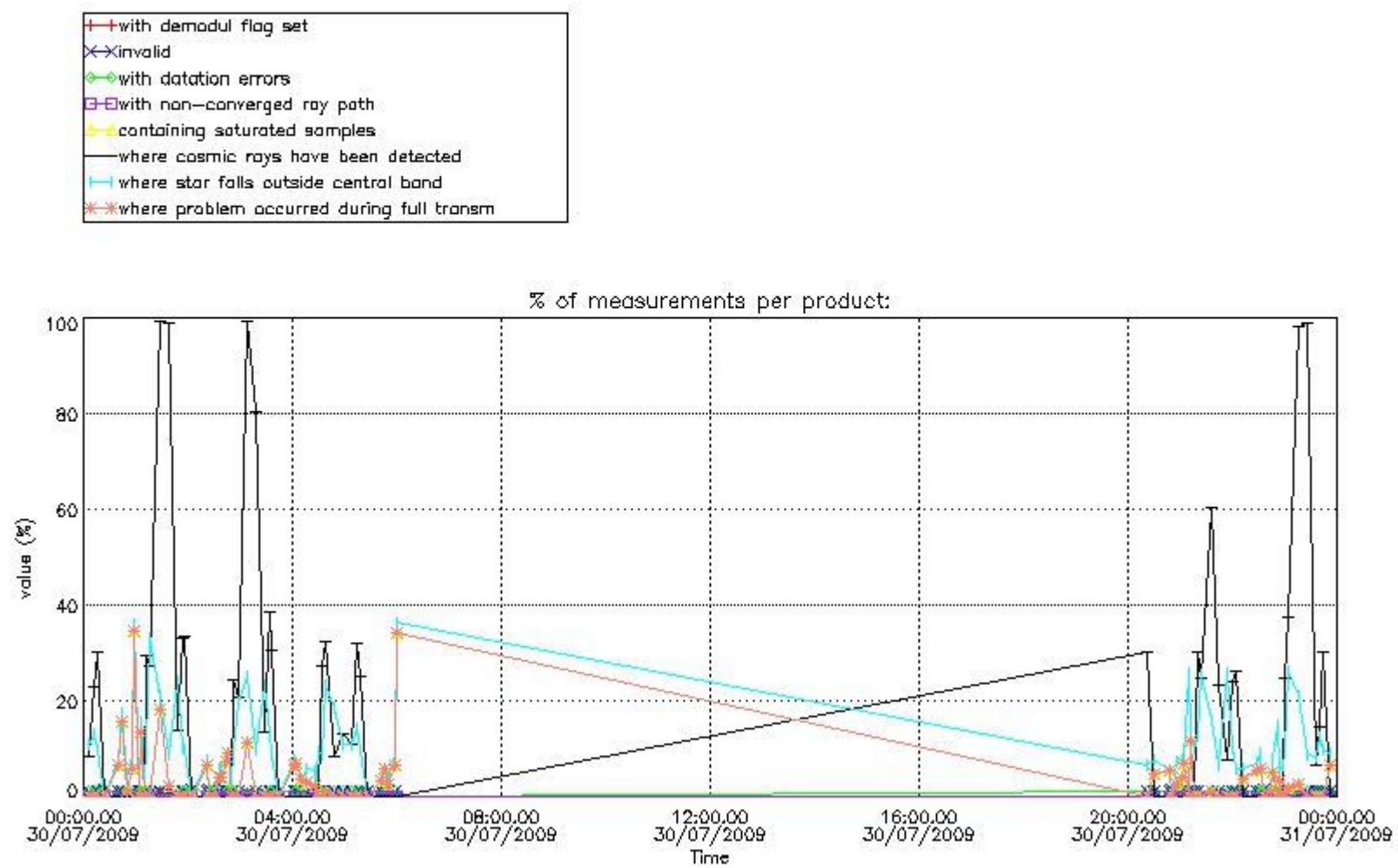
5. Demodulation flag and quality information monitoring

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.

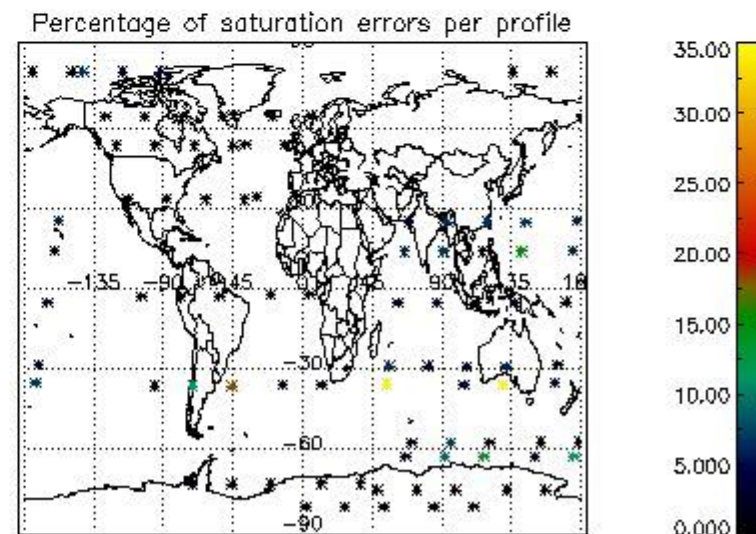
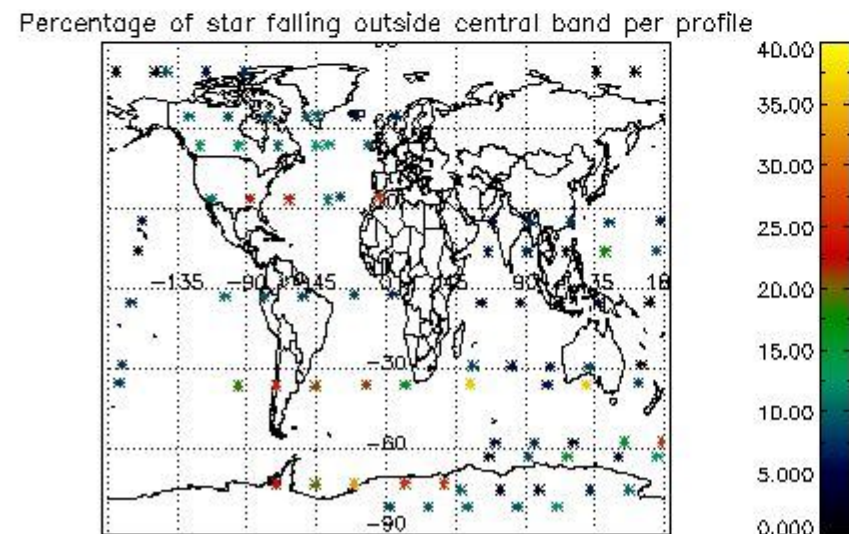
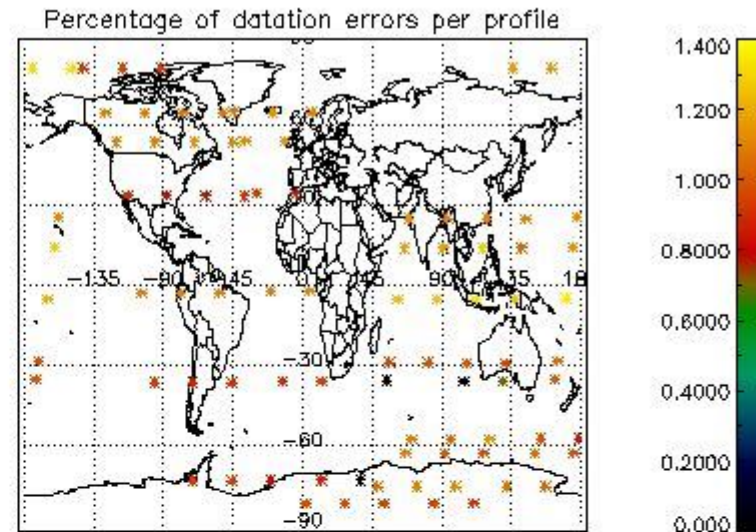
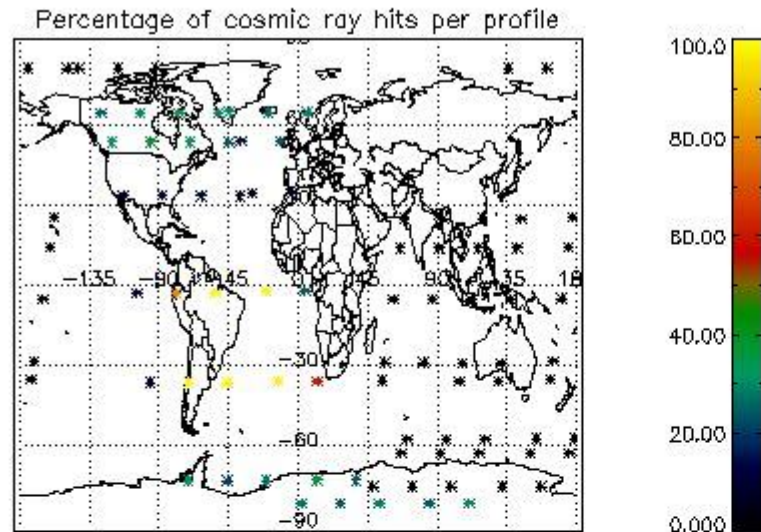
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	26.6667 %
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)



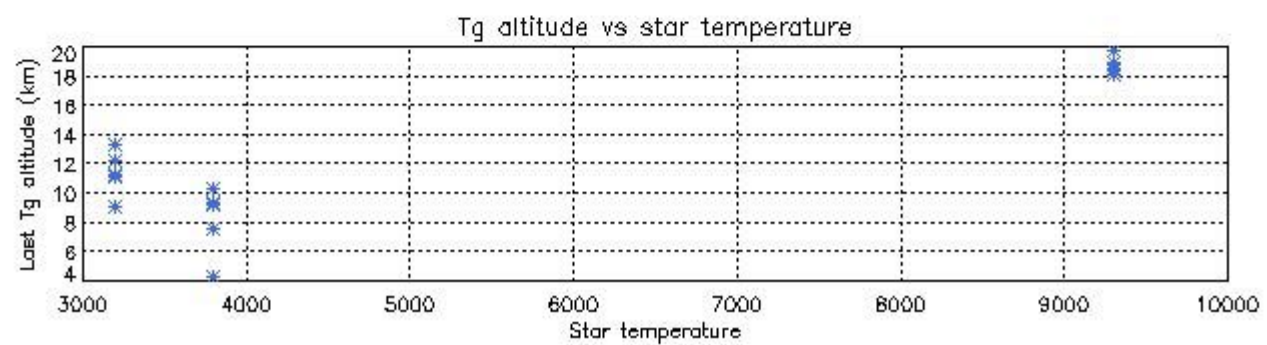
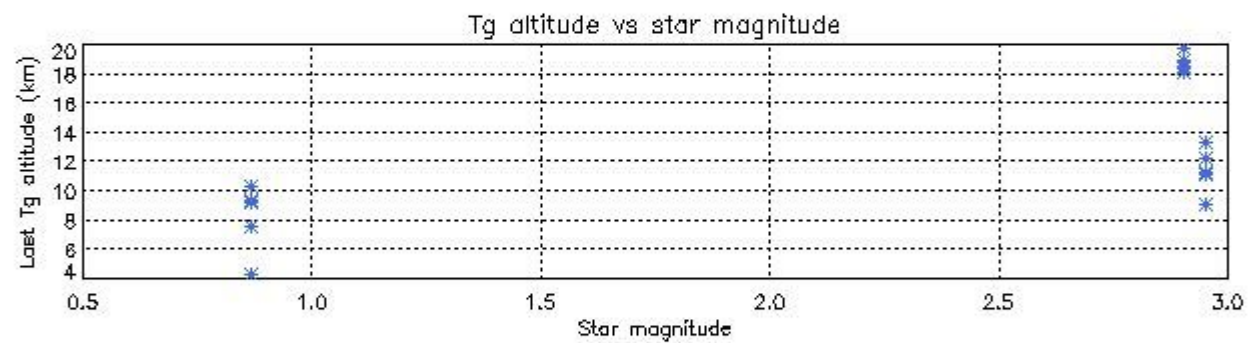
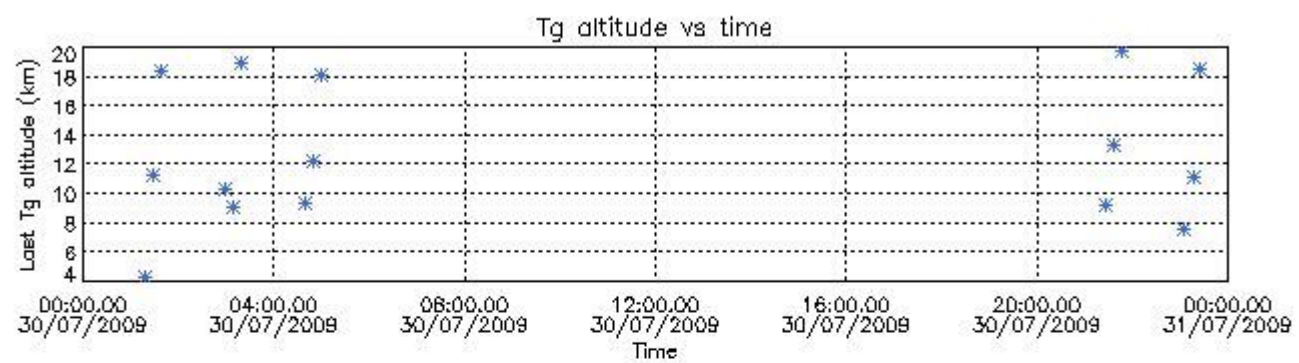
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	12.739	21.528	NaN
St. deviation:	4.8371	8.4822	NaN
Maximum:	19.742	50.489	NaN
Minimum:	4.2921	3.0956	NaN
Number of data:	15.000	51.000	NaN

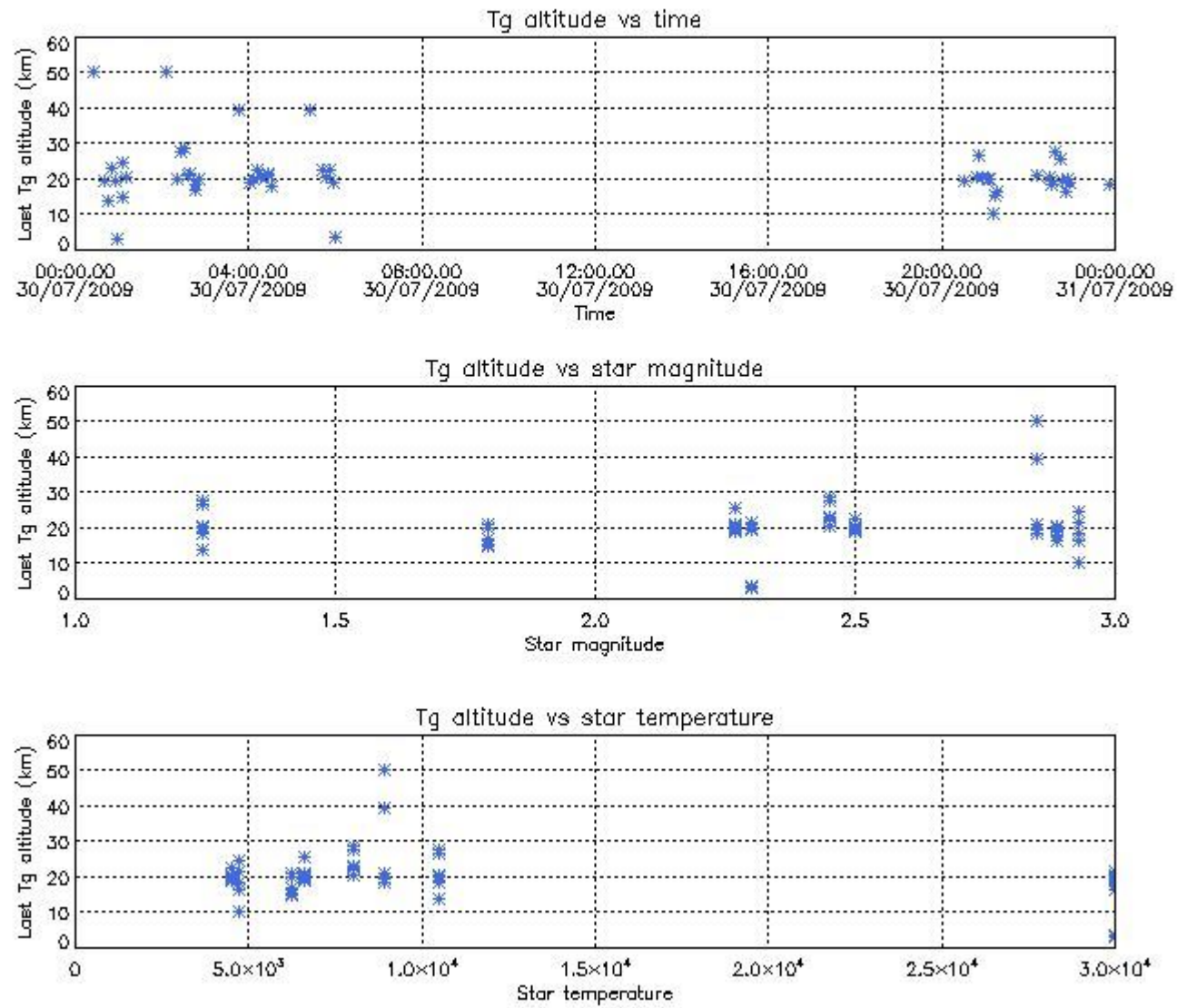
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

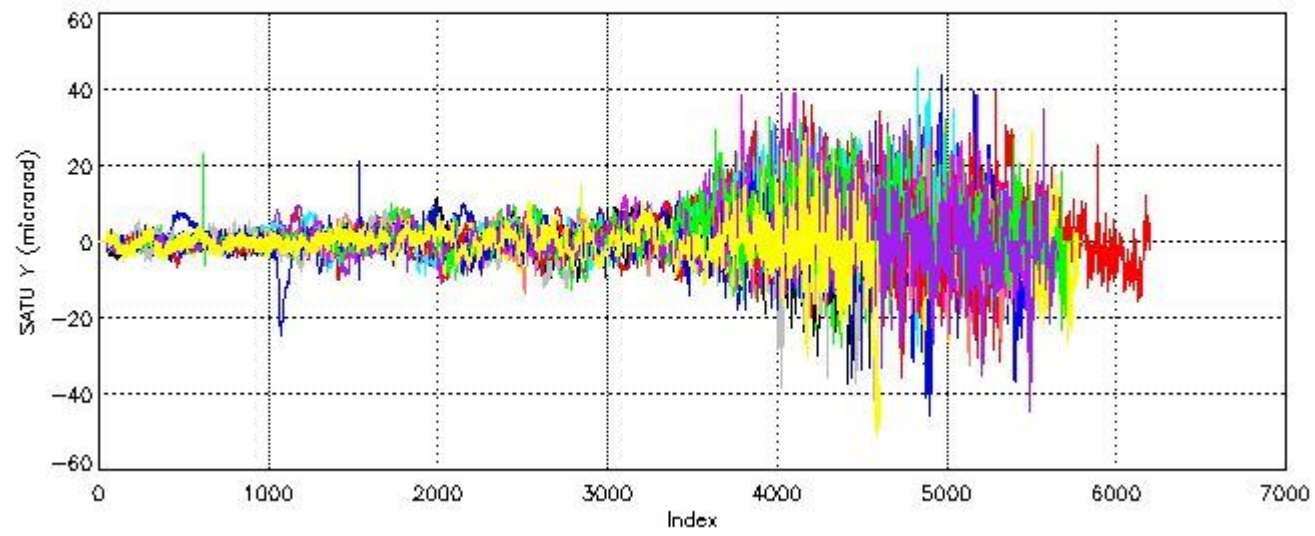
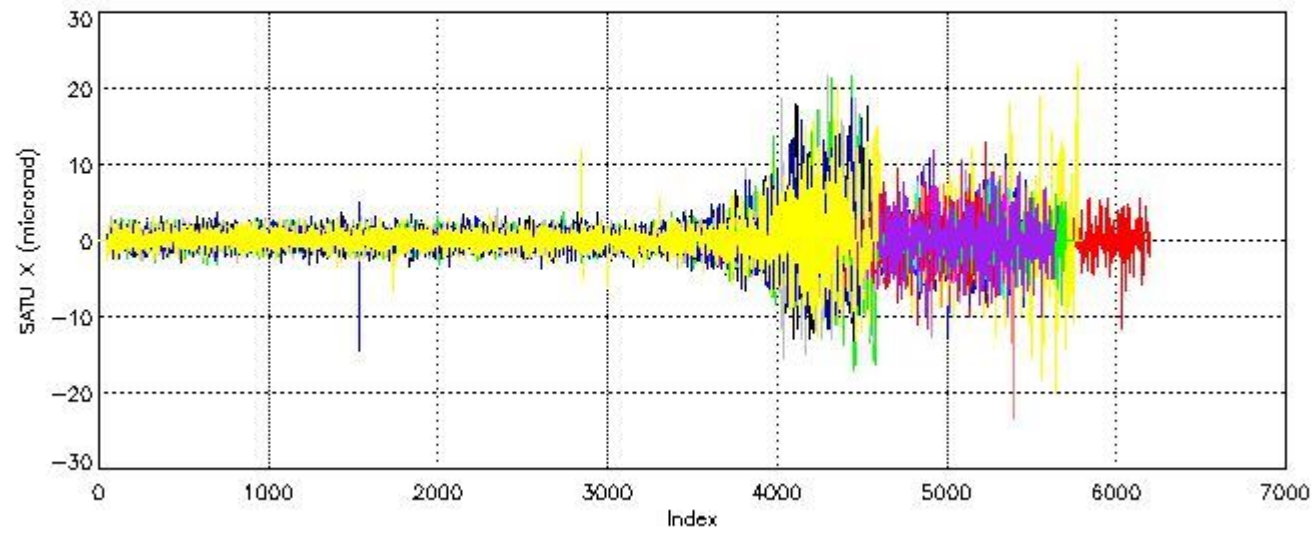


7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

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

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.18149	-0.37168	0.28529	-0.43091
St. deviation:	0.48426	1.3843	0.81393	1.3911
Maximum:	3.6000	23.000	6.5000	9.1000
Minimum:	-3.2000	-24.600	-6.2000	-7.8000

Number of data:	16100.	16100.	55250.	55250.
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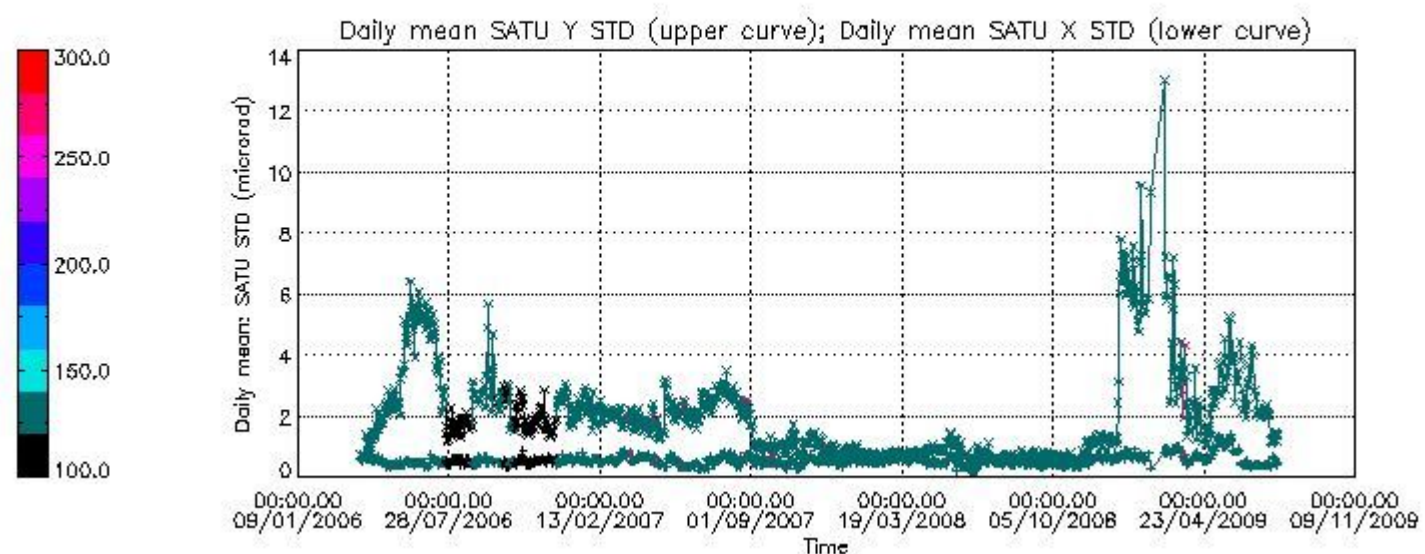
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

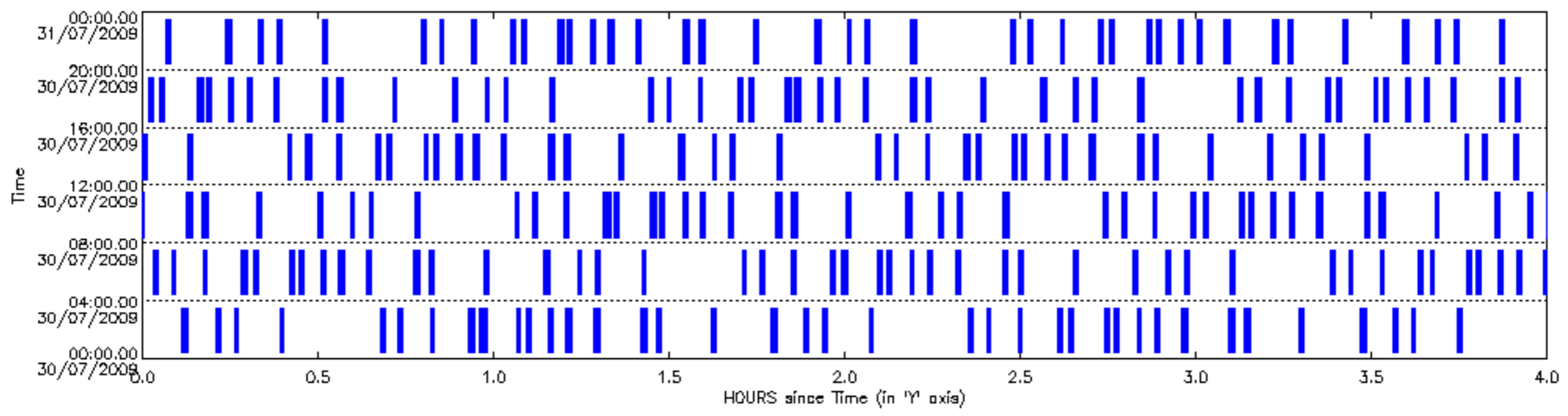
Lower curve: STD of SATU X axis

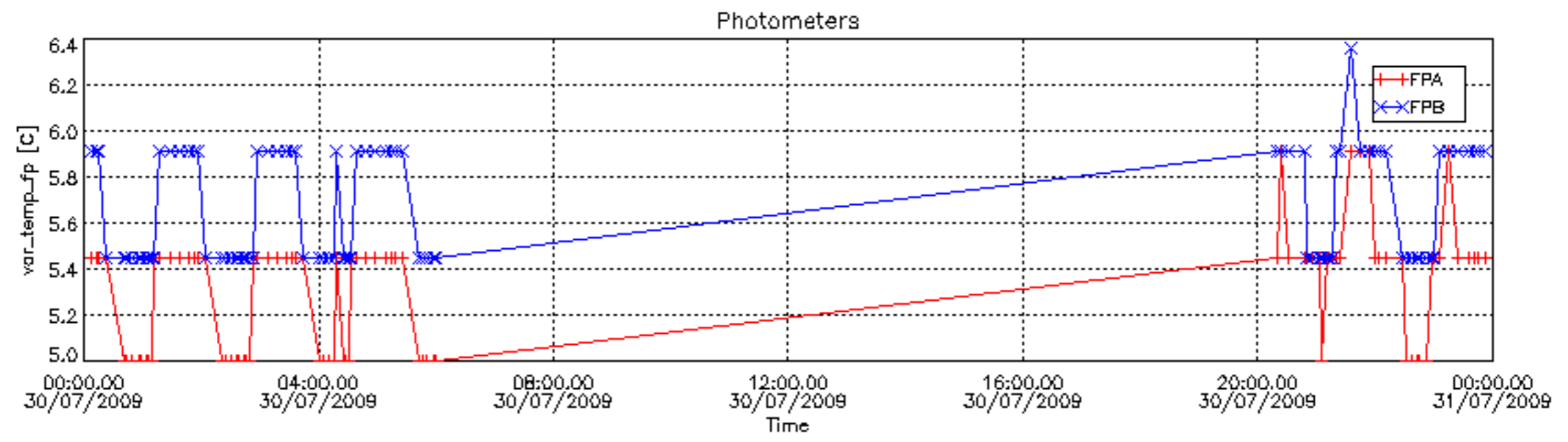
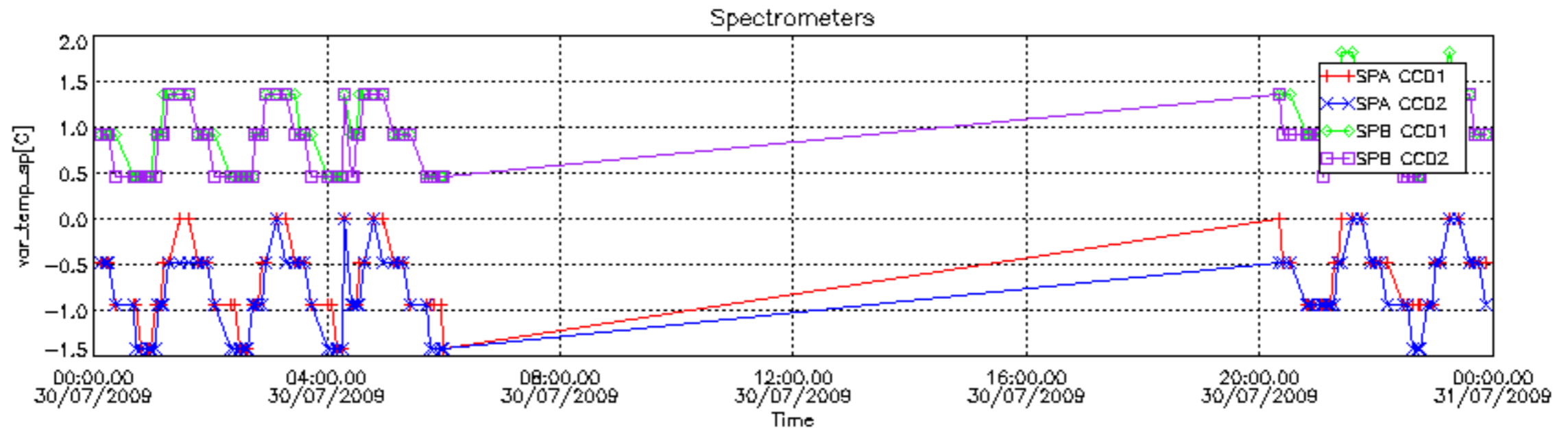


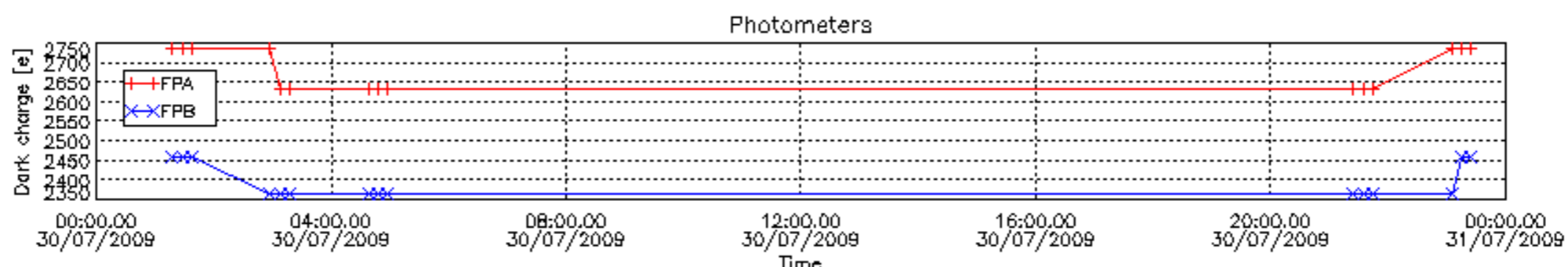
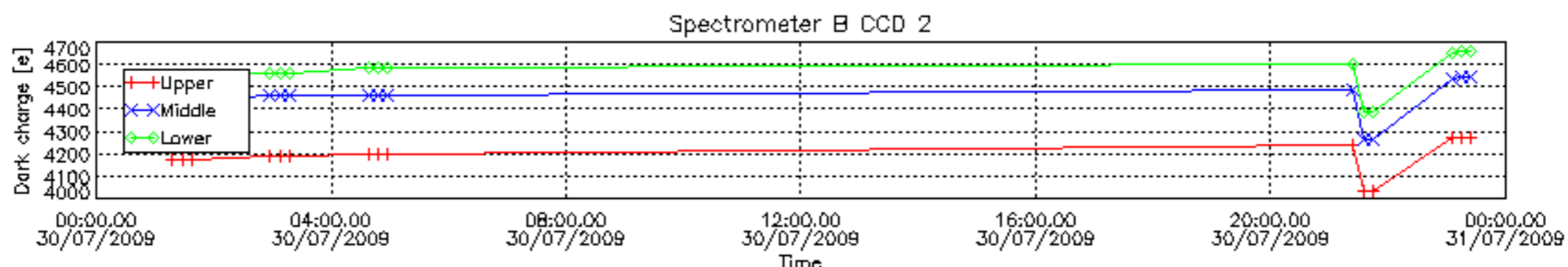
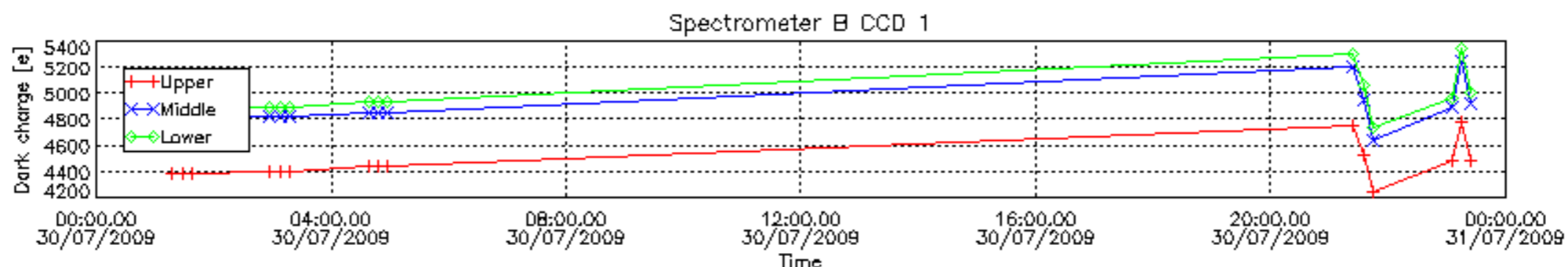
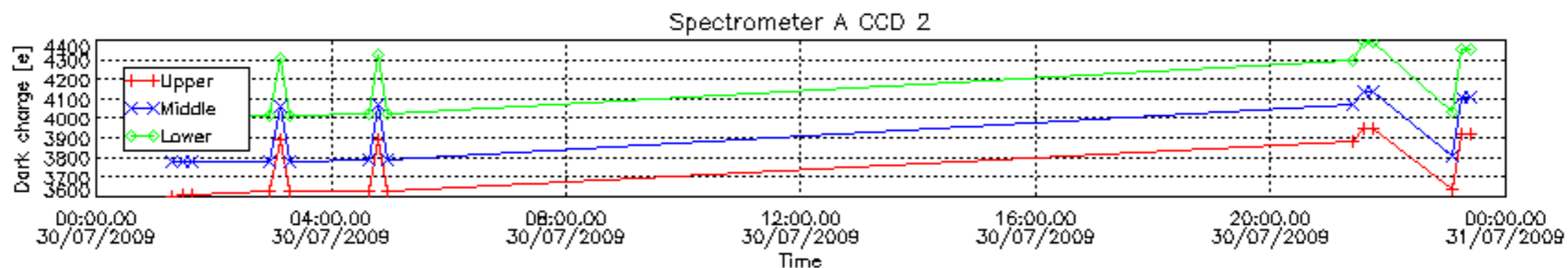
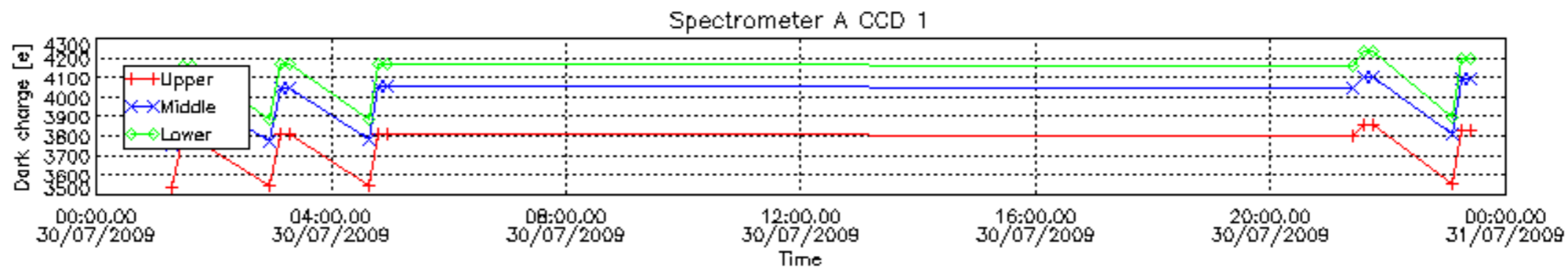
8. Auxiliary Data Files used for the production reported in section 2.4

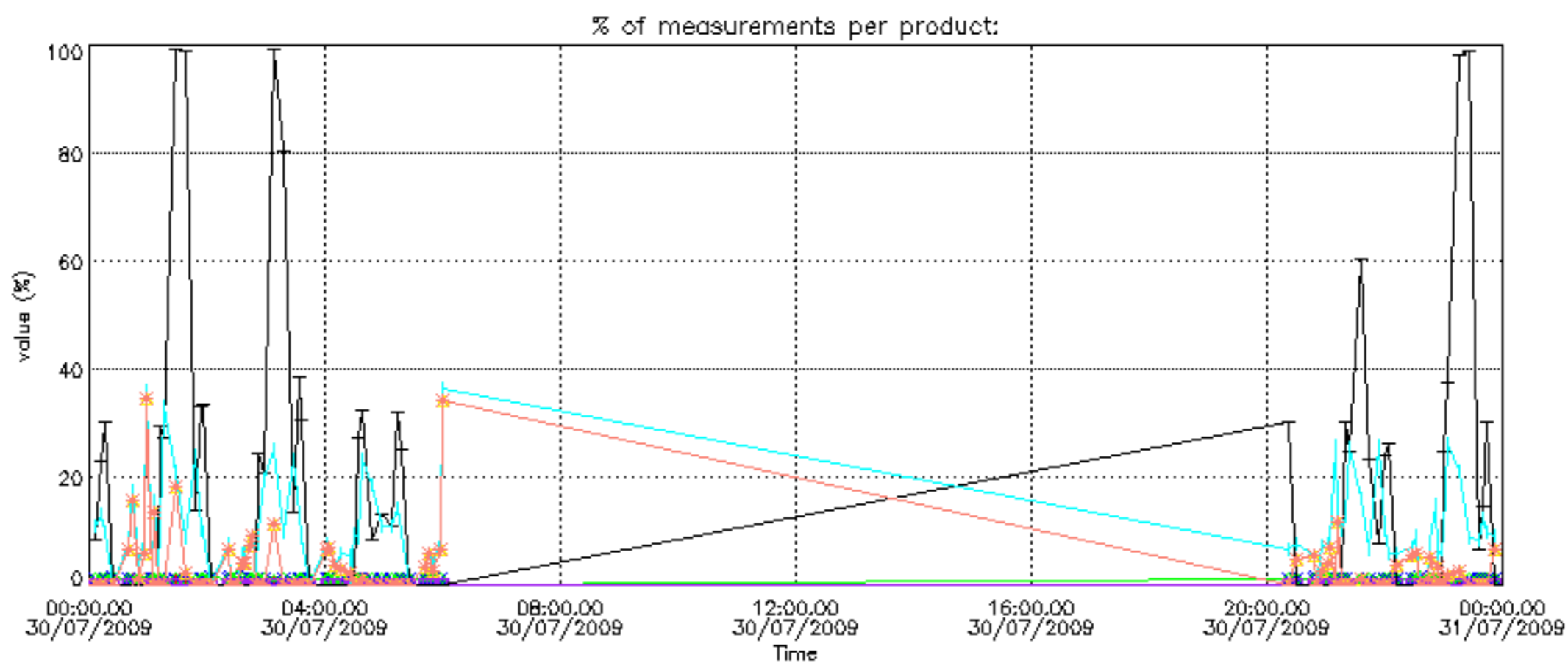
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	30-JUL-2009 00:06:42
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090724_083809_20090721_000000_20100101_000000	1	30-JUL-2009 00:06:42
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090730_093840_20090728_000000_20100101_000000	58	30-JUL-2009 20:19:42
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	30-JUL-2009 00:06:42
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	30-JUL-2009 00:06:42
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	30-JUL-2009 00:06:42
ECMWF_FILE	AUX_ECF_AXNECM20090729_064112_20090729_210000_20090730_090000	1	30-JUL-2009 00:06:42
ECMWF_FILE	AUX_ECF_AXNECM20090729_182114_20090730_030000_20090730_150000	41	30-JUL-2009 04:18:47
ECMWF_FILE	AUX_ECF_AXNECM20090730_062115_20090730_150000_20090731_030000	58	30-JUL-2009 20:19:42
ECMWF_FILE	AUX_ECF_AXNECM20090730_064114_20090730_210000_20090731_090000	71	30-JUL-2009 21:35:03
OPTIONAL_ECMWF_FILE	MISSING	1	30-JUL-2009 00:06:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090729_215914_000060572081_00129_38760_8450.N1	1	30-JUL-2009 00:06:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090729_234011_000057382081_00130_38761_8451.N1	15	30-JUL-2009 01:27:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090730_012108_000044632081_00131_38762_8452.N1	26	30-JUL-2009 02:44:25
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090730_024050_000054192081_00132_38763_8453.N1	41	30-JUL-2009 04:18:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090730_201809_000038262081_00143_38774_8455.N1	58	30-JUL-2009 20:19:42
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090730_212714_000060572081_00143_38774_8456.N1	87	30-JUL-2009 23:15:40

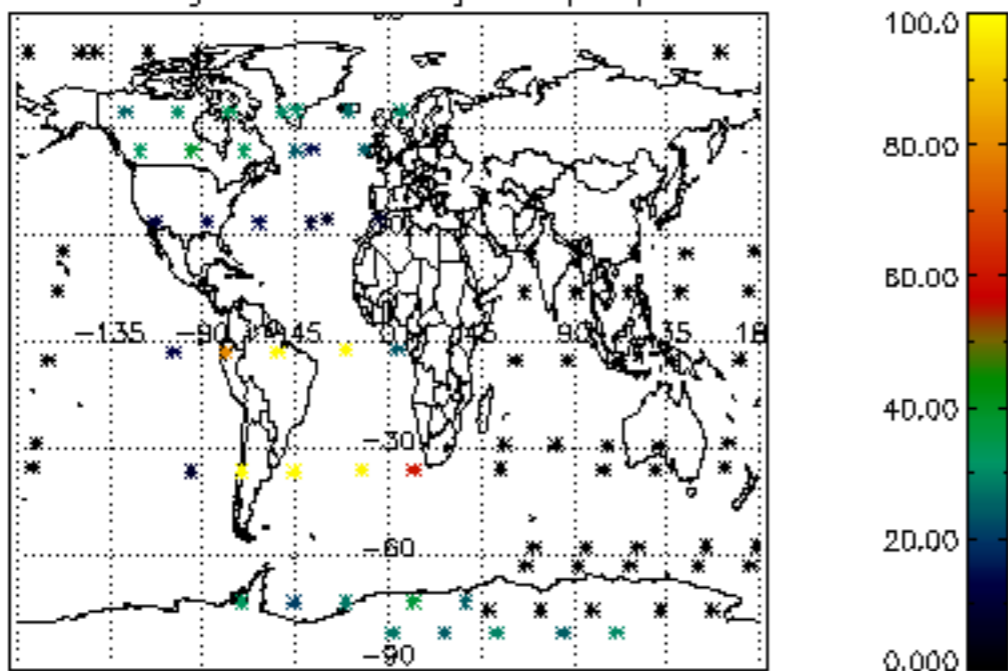




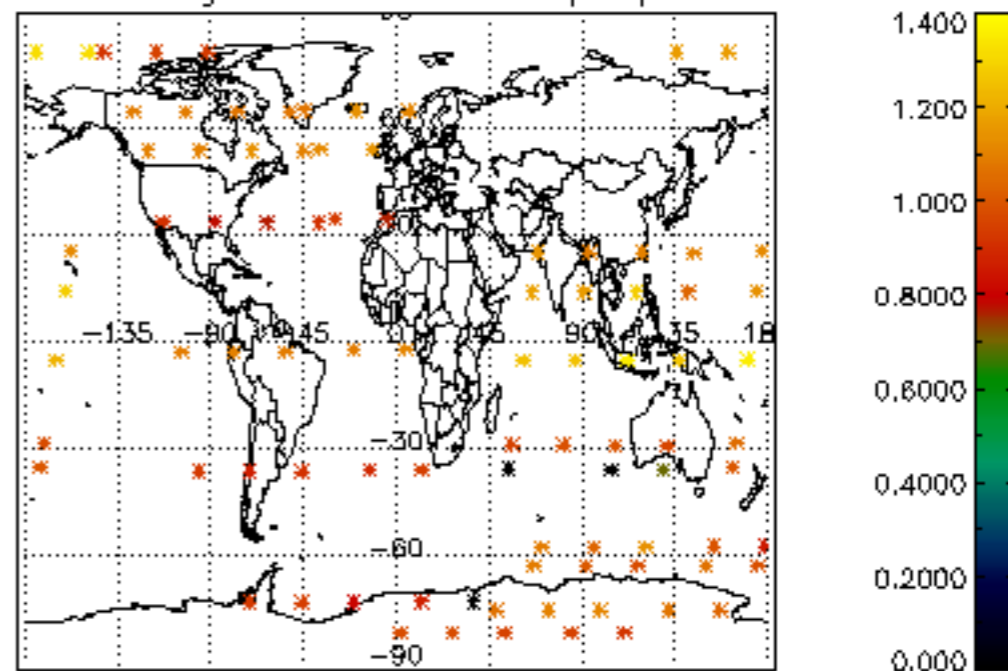




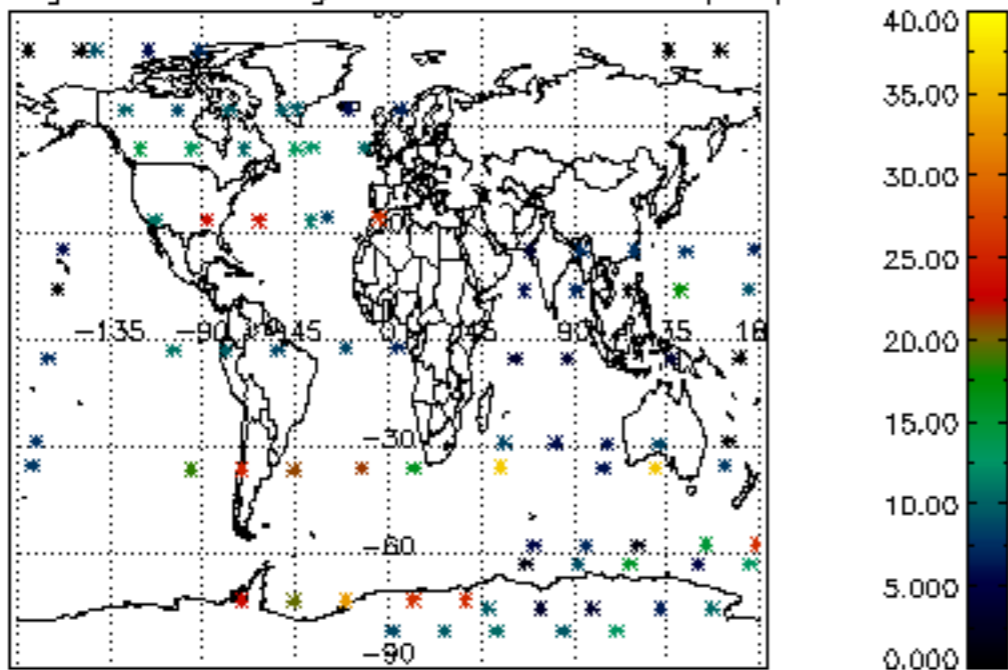
Percentage of cosmic ray hits per profile



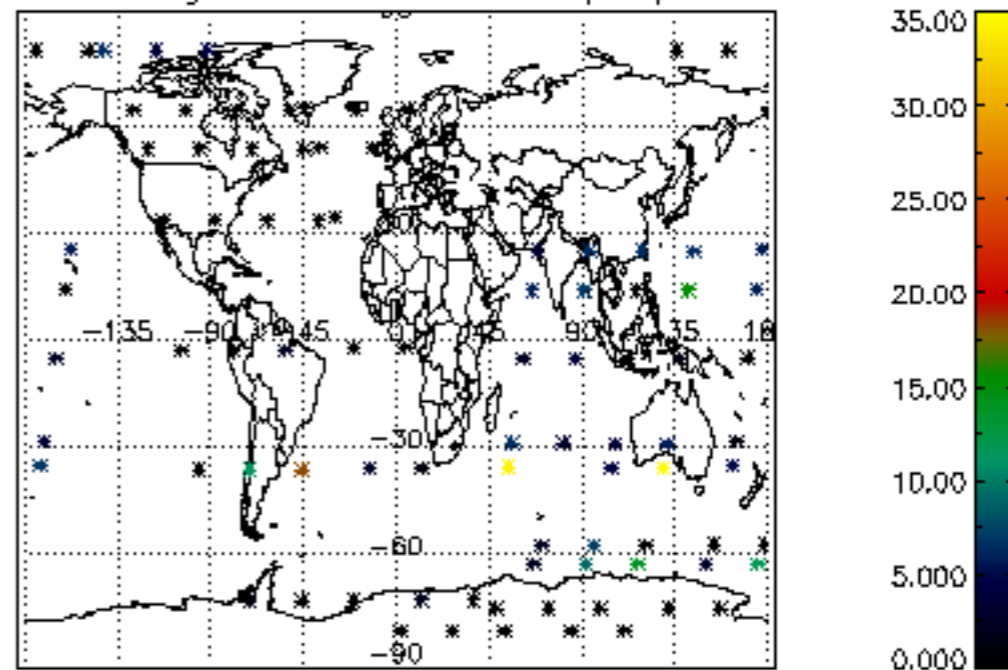
Percentage of datation errors per profile



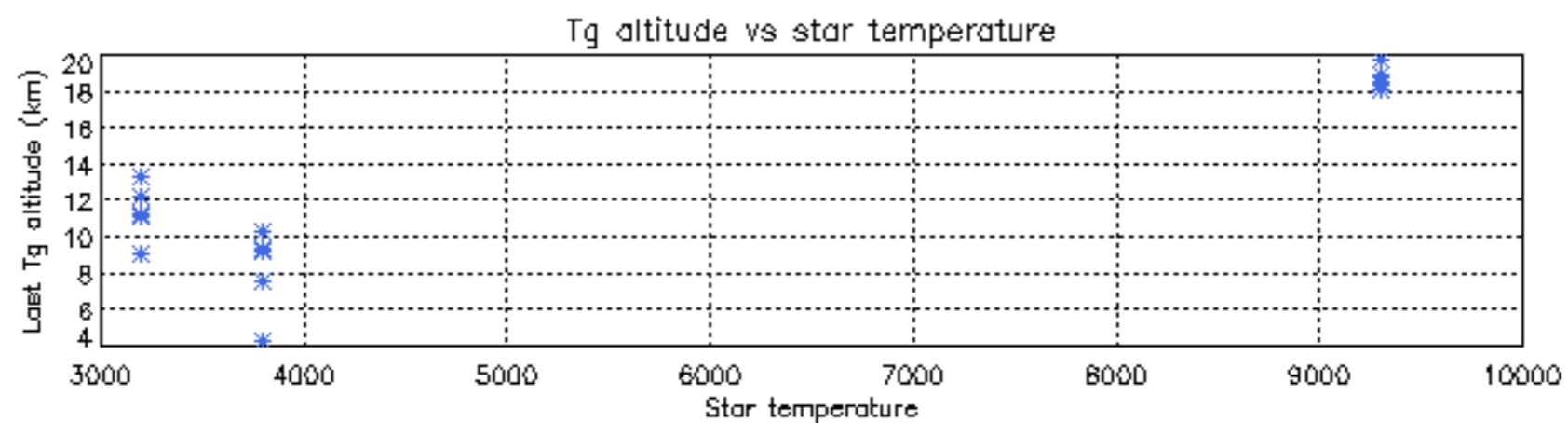
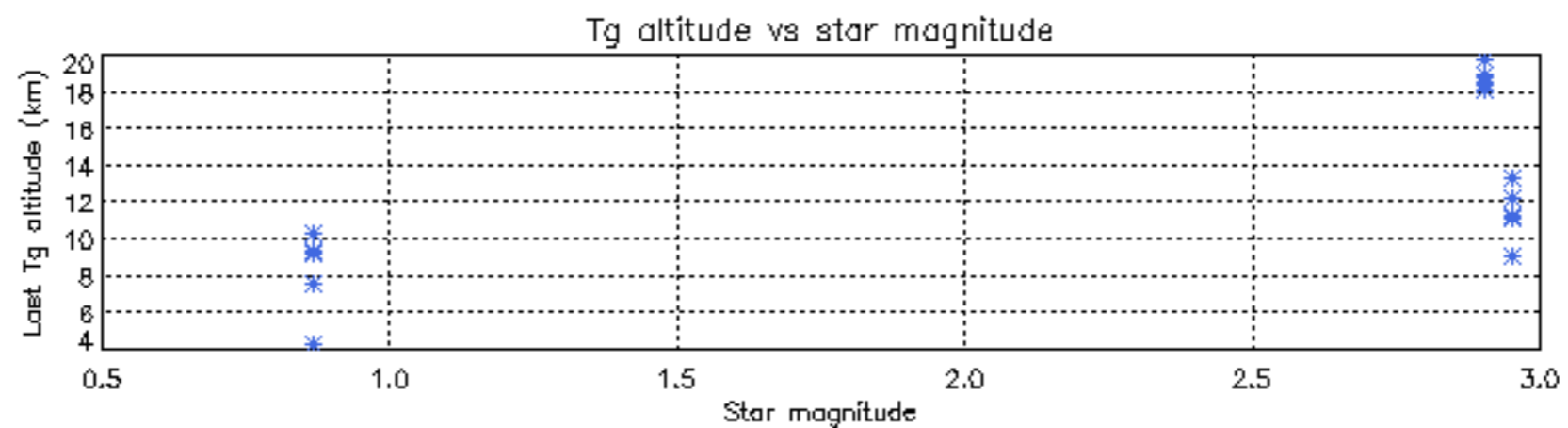
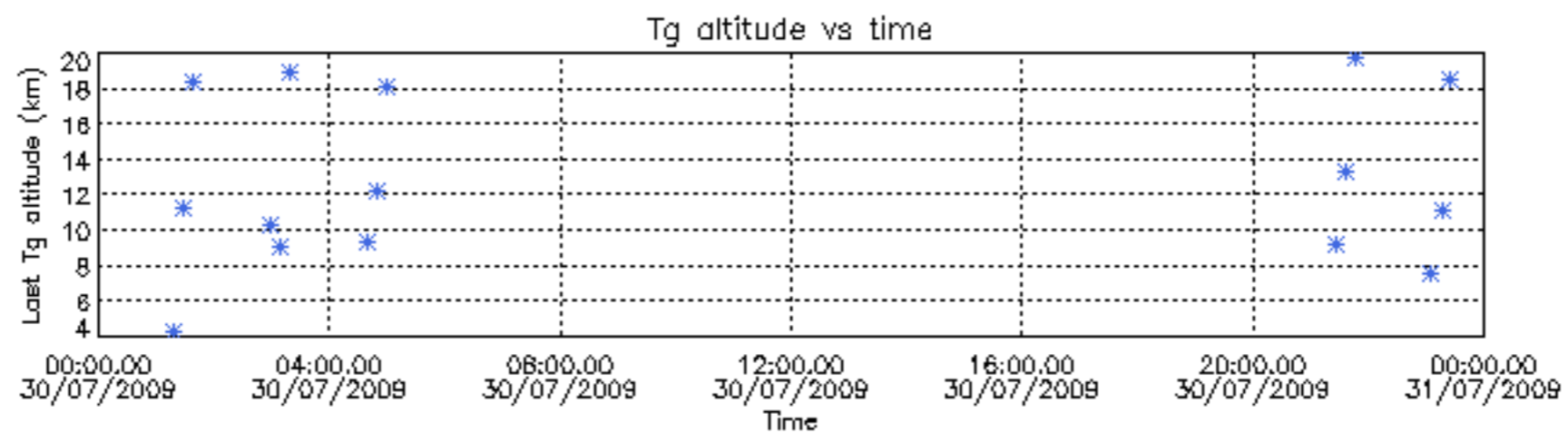
Percentage of star falling outside central band per profile



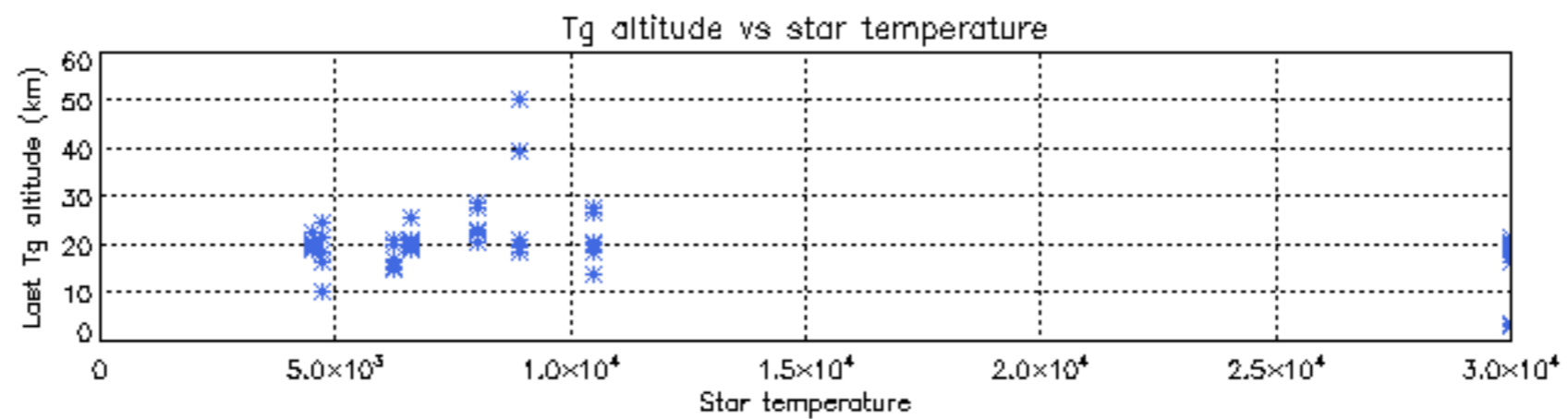
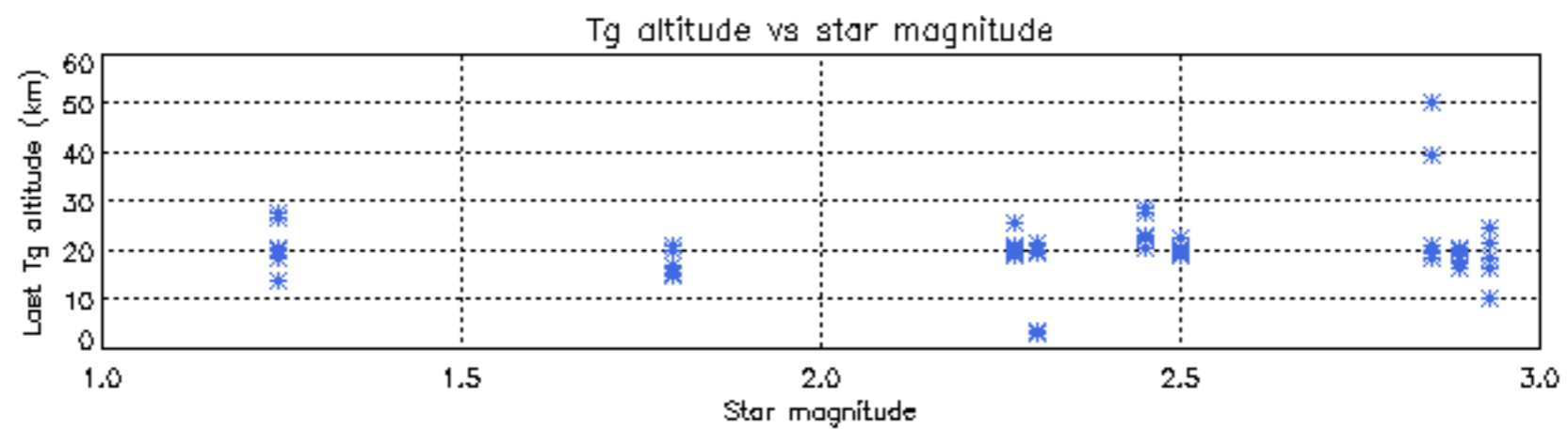
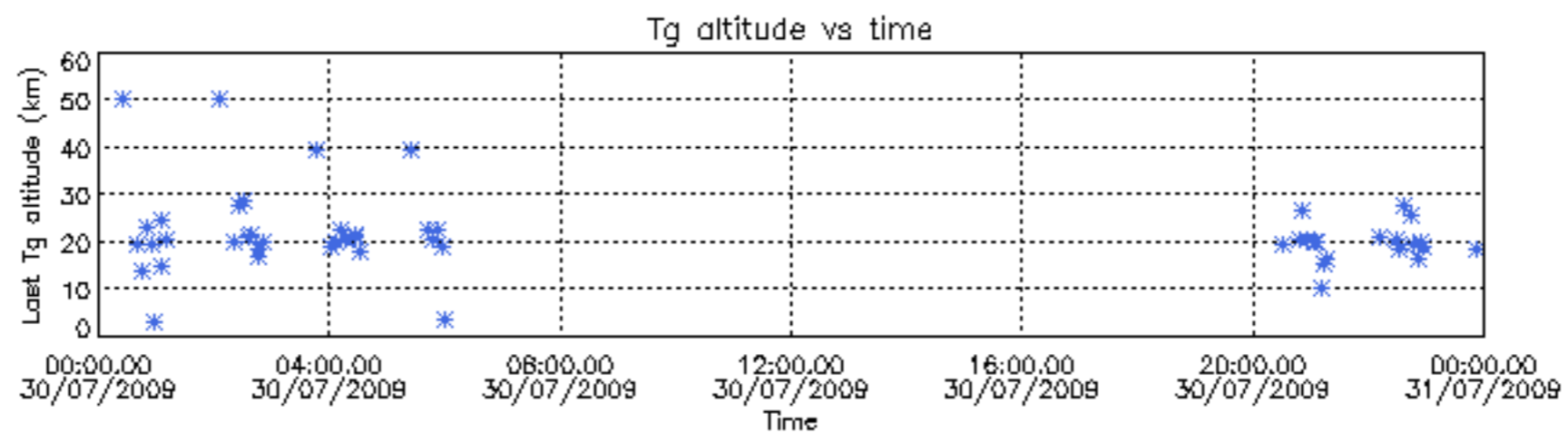
Percentage of saturation errors per profile

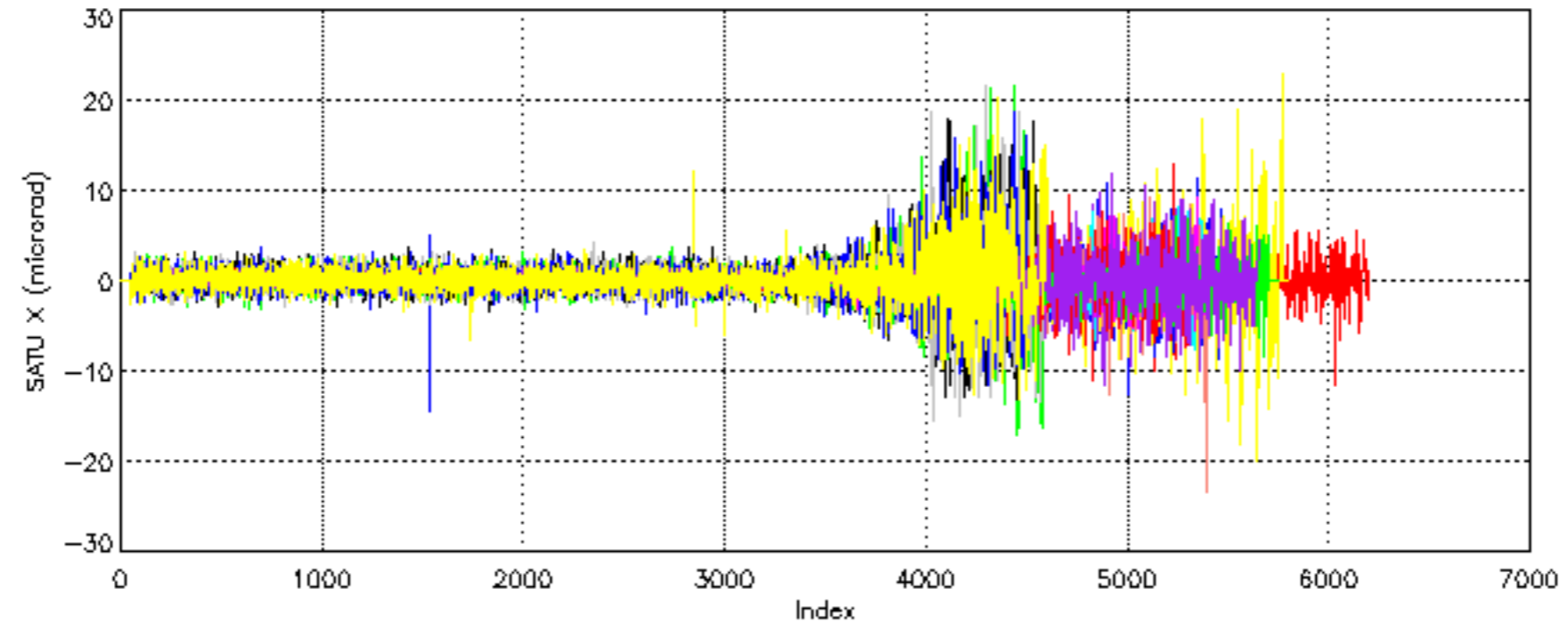


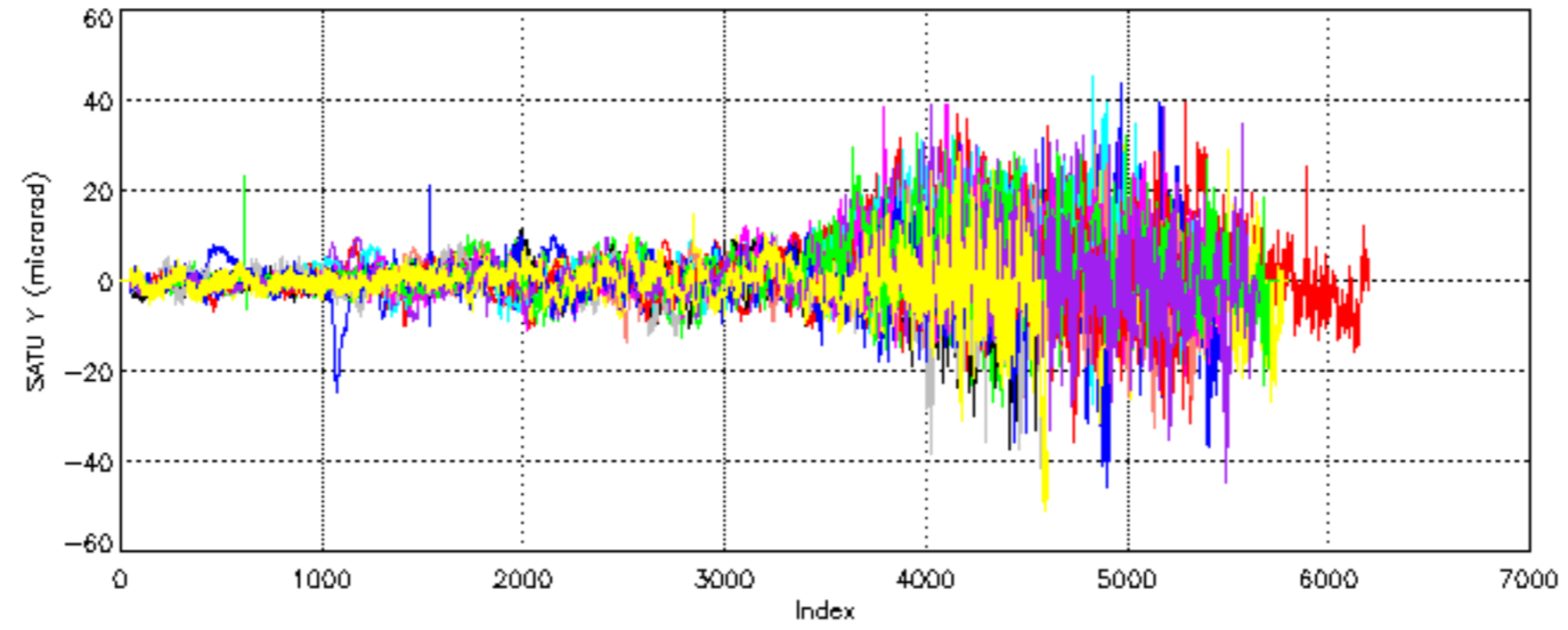
Tangent altitude at which the star is lost

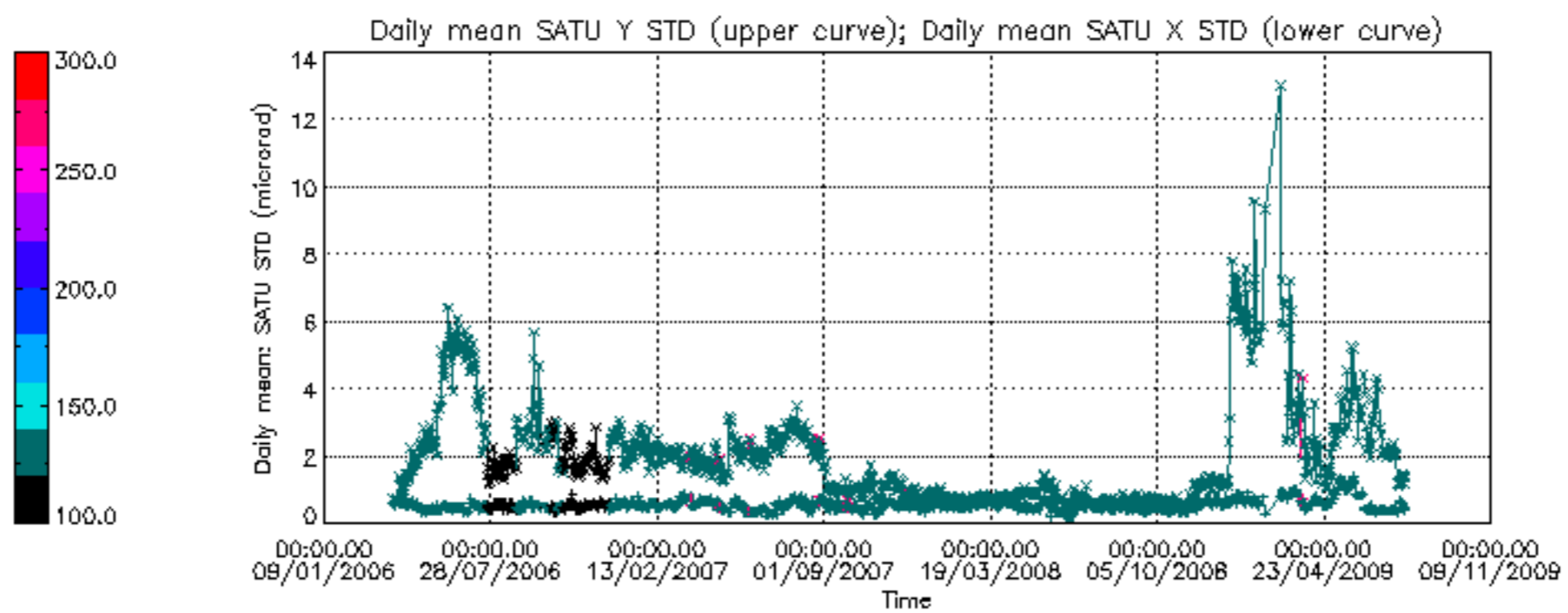


Tangent altitude at which the star is lost









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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
/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
 9; 2921.8; 01-JUL-2009 02:38:08; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;38348
10; 3343.1; 01-JUL-2009 02:45:09; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;38348
11; 3784.6; 01-JUL-2009 02:52:31; Bright; 38.5; 74; 11Bet Cas ; 2.27; 6600;occ; 77; 0;38348
12; 3876.9; 01-JUL-2009 02:54:03; Bright; 33.5; 110; 37Del Cas ; 2.68; 8900;occ; 67; 0;38348
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 1;-2159.1; 01-JUL-2009 02:54:03; Bright; 34.0; 110; 37Del Cas ; 2.68; 8900;occ; 68; 0;38348
 2;-1769.2; 01-JUL-2009 03:00:33; Bright; 34.5; 73; 57Gam1And ; 2.26; 13100;occ; 69; 0;38348
 3;-1610.9; 01-JUL-2009 03:03:11; Dark ; 35.0; 173; 4Bet Tri ; 3.00; 8900;occ; 70; 0;38348
 4;-1355.5; 01-JUL-2009 03:07:26; Dark ; 39.5; 50; 13Alp Ari ; 2.01; 4250;occ; 79; 0;38348
 5; -531.6; 01-JUL-2009 03:21:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38348
 6; 100.2; 01-JUL-2009 03:31:42; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;38349
 7; 489.1; 01-JUL-2009 03:38:11; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38349
 8; 605.3; 01-JUL-2009 03:40:07; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;38349
 9; 778.8; 01-JUL-2009 03:43:01; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38349
10; 1481.3; 01-JUL-2009 03:54:43; Bright; 44.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 88; 0;38349
11; 2230.9; 01-JUL-2009 04:07:13; Bright; 51.0; 168; 17Zet Aql ; 2.99; 11000;occ; 102; 0;38349
12; 2650.9; 01-JUL-2009 04:14:13; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;38349
13; 2920.9; 01-JUL-2009 04:18:43; Bright; 48.5; 144; 18Del Cyg ; 2.86; 11000;occ; 97; 0;38349
14; 3342.2; 01-JUL-2009 04:25:44; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;38349
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 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
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 8; 489.9; 01-JUL-2009 05:18:48; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 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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 2; 2225.6; 01-JUL-2009 20:53:07; Bright; 45.5; 168; 17Zet Aql ; 2.99; 11000;occ; 91; 0;38359
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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
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 3; 499.5; 01-JUL-2009 22:04:57; Dark ; 50.0; 63; Bet Gru ; 2.15; 2800;occ; 100; 0;38360
 4; 615.0; 01-JUL-2009 22:06:52; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38360
 5; 790.6; 01-JUL-2009 22:09:48; Dark ; 55.5; 172; Gam Gru ; 3.00; 13100;occ; 111; 0;38360
 6; 1483.4; 01-JUL-2009 22:21:21; Bright; 41.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 83; 0;38360
 7; 2225.1; 01-JUL-2009 22:33:42; Bright; 48.5; 168; 17Zet Aql ; 2.99; 11000;occ; 97; 0;38360
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 9; 2911.6; 01-JUL-2009 22:45:09; Bright; 48.0; 144; 18Del Cyg ; 2.86; 11000;occ; 96; 0;38360
 10; 3334.6; 01-JUL-2009 22:52:12; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38360
 11; 3778.2; 01-JUL-2009 22:59:35; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;38360
 12; 3873.5; 01-JUL-2009 23:01:11; Bright; 35.5; 110; 37Del Cas ; 2.68; 8900;occ; 71; 0;38360
 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
 5; 791.5; 01-JUL-2009 23:50:25; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;38361
 6; 1483.5; 02-JUL-2009 00:01:57; Bright; 40.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 80; 0;38361
 7; 2224.7; 02-JUL-2009 00:14:18; Bright; 45.0; 168; 17Zet Aql ; 2.99; 11000;occ; 90; 0;38361
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 10; 3334.3; 02-JUL-2009 00:32:47; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38361
 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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 8; 491.1; 01-JUL-2009 06:59:25; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38351
 9; 607.2; 01-JUL-2009 07:01:21; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38351
 10; 781.0; 01-JUL-2009 07:04:15; Dark ; 57.5; 172; Gam Gru ; 3.00; 13100;occ; 115; 0;38351
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 3; 2919.2; 01-JUL-2009 07:39:53; Bright; 49.5; 144; 18Del Cyg ; 2.86; 11000;occ; 99; 0;38351
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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
 8; 4425.4; 01-JUL-2009 08:04:59; Dark ; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;38351
 9; 4681.5; 01-JUL-2009 08:09:15; Dark ; 39.0; 50; 13Alp Ari ; 2.01; 4250;occ; 78; 0;38351
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 3; -1350.7; 02-JUL-2009 02:35:54; Dark ; 40.5; 50; 13Alp Ari ; 2.01; 4250;occ; 81; 0;38362
 4; -519.1; 02-JUL-2009 02:49:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38362
 5; 114.5; 02-JUL-2009 03:00:19; Dark ; 48.5; 84; Alp Phe ; 2.40; 4500;occ; 97; 0;38363
 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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3; 2218.5; 02-JUL-2009 20:21:23; Bright; 45.0; 168; 17Zet Aql ; 2.99; 11000;occ; 90; 0;38373
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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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13; 4264.7; 02-JUL-2009 22:36:05; Bright; 37.5; 73; 57Gam1And ; 2.26; 13100;occ; 75; 0;38374
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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
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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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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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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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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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 4; 3328.9; 02-JUL-2009 13:57:29; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38369
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 9; 4687.7; 02-JUL-2009 14:20:08; Dark ; 42.0; 50; 13Alp Ari ; 2.01; 4250;occ; 84; 0;38369
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13; 6660.0; 02-JUL-2009 14:53:00; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38369
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 5; 807.2; 03-JUL-2009 00:59:39; Dark ; 56.5; 172; Gam Gru ; 3.00; 13100;occ; 113; 0;38376
 6; 1486.3; 03-JUL-2009 01:10:58; Bright; 48.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 96; 0;38376
 7; 2217.1; 03-JUL-2009 01:23:09; Bright; 45.5; 168; 17Zet Aql ; 2.99; 11000;occ; 91; 0;38376
 8; 2638.1; 03-JUL-2009 01:30:10; Bright; 47.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 94; 0;38376
 9; 2897.9; 03-JUL-2009 01:34:30; Bright; 44.5; 144; 18Del Cyg ; 2.86; 11000;occ; 89; 0;38376
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 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
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11; 2853.3; 07-JUL-2009 04:29:05; Bright; 45.5; 144; 18Del Cyg ; 2.86; 11000;occ; 91; 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
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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
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 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
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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
 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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 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
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 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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 6; 4258.4; 07-JUL-2009 13:15:29; Bright; 46.5; 73; 57Gam1And ; 2.26; 13100;occ; 93; 0;38440
 7; 4431.5; 07-JUL-2009 13:18:22; Dark ; 45.5; 173; 4Bet Tri ; 3.00; 8900;occ; 91; 0;38440
 8; 4715.2; 07-JUL-2009 13:23:06; Dark ; 53.0; 50; 13Alp Ari ; 2.01; 4250;occ; 106; 0;38440
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13; 6720.4; 07-JUL-2009 13:56:31; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38440
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 3; 3281.7; 07-JUL-2009 14:39:49; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38441
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 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
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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
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 3; 3281.0; 07-JUL-2009 16:20:24; Bright; 46.0; 89; 5Alp Cep ; 2.45; 8000;occ; 92; 0;38442
 4; 3731.8; 07-JUL-2009 16:27:55; Bright; 48.5; 74; 11Bet Cas ; 2.27; 6600;occ; 97; 0;38442
 5; 3846.6; 07-JUL-2009 16:29:49; Bright; 40.5; 110; 37Del Cas ; 2.68; 8900;occ; 81; 0;38442
 6; 4258.2; 07-JUL-2009 16:36:41; Bright; 44.0; 73; 57Gam1And ; 2.26; 13100;occ; 88; 0;38442
 7; 4431.4; 07-JUL-2009 16:39:34; Dark ; 44.5; 173; 4Bet Tri ; 3.00; 8900;occ; 89; 0;38442
 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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11; 6236.4; 07-JUL-2009 17:09:39; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38442
12; 6613.8; 07-JUL-2009 17:15:57; Dark ; 52.0; 63; Bet Gru ; 2.15; 2800;occ; 104; 0;38442
13; 6722.1; 07-JUL-2009 17:17:45; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38442
14; 6908.6; 07-JUL-2009 17:20:51; Dark ; 54.5; 172; Gam Gru ; 3.00; 13100;occ; 109; 0;38442
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 3; 3280.4; 07-JUL-2009 18:00:59; Bright; 41.0; 89; 5Alp Cep ; 2.45; 8000;occ; 82; 0;38443
 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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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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6; 4254.7; 09-JUL-2009 17:13:59; Bright; 42.5; 73; 57Gam1And ; 2.26; 13100;occ; 85; 0;38471
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 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
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 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
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 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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 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
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 7; 4035.3; 17-JUL-2009 14:38:00; Bright; 40.0; 160; 23Gam Per ; 2.93; 4700;occ; 80; 0;38584

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 9; 4296.3; 17-JUL-2009 14:42:21; Bright; 46.0; 79; 26Bet Per ; 2.31; 13100;occ; 92; 0;38584
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 13; 5471.2; 17-JUL-2009 15:01:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38584
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 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
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 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
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 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
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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
 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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 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
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 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
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 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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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
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4;-1919.1; 18-JUL-2009 04:04:09; Bright; 42.5; 35; 33Alp Per ; 1.79; 6250;occ; 85; 0;38592
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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
7; -910.0; 18-JUL-2009 04:20:58; Dark ; 64.0; 94; 92Alp Cet ; 2.53; 3100;occ; 128; 0;38592
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10; 707.4; 18-JUL-2009 04:47:56; Dark ; 60.5; 63; Bet Gru ; 2.15; 2800;occ; 121; 0;38593
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12; 993.1; 18-JUL-2009 04:52:41; Dark ; 51.0; 172; Gam Gru ; 3.00; 13100;occ; 102; 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
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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
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16; 3189.0; 18-JUL-2009 07:09:53; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38594
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6; 1000.0; 18-JUL-2009 21:38:48; Dark ; 49.5; 172; Gam Gru ; 3.00; 13100;occ; 99; 0;38603
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11; 3624.3; 18-JUL-2009 22:22:32; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38603

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13; 5357.4; 24-JUL-2009 09:38:07; Dark ; 49.0; 165; 34Gam Eri ; 2.95; 3200;occ; 98; 0;38681
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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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 8; 4103.2; 24-JUL-2009 10:57:49; Bright; 44.5; 35; 33Alp Per ; 1.79; 6250;occ; 89; 0;38682
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13; 5358.1; 24-JUL-2009 11:18:44; Dark ; 48.5; 165; 34Gam Eri ; 2.95; 3200;occ; 97; 0;38682
14; 5579.9; 24-JUL-2009 11:22:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38682
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 8; 4103.0; 24-JUL-2009 12:38:24; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38683
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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
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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
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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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 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
 11; 4752.7; 24-JUL-2009 14:29:50; Dark ; 58.0; 13; 87Alp Tau ; 0.87; 3800;occ; 116; 0;38684
 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
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 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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 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
 15; 5917.8; 24-JUL-2009 16:29:51; Dark ; 44.5; 157; The1Eri ; 2.91; 9300;occ; 89; 0;38685
 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
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 11; 4658.1; 24-JUL-2009 17:49:27; Dark ; 51.0; 146; 25Eta Tau ; 2.87; 15200;occ; 102; 0;38686
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 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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 12; 4658.4; 24-JUL-2009 19:30:04; Dark ; 49.5; 146; 25Eta Tau ; 2.87; 15200;occ; 99; 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
 19; 7089.7; 24-JUL-2009 20:10:35; Dark ; 39.0; 172; Gam Gru ; 3.00; 13100;occ; 78; 0;38687

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 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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 15; 4288.7; 25-JUL-2009 02:06:18; Bright; 52.0; 79; 26Bet Per ; 2.31; 13100;occ; 104; 0;38691
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 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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6; 4008.8; 25-JUL-2009 13:45:49; Bright; 48.5; 160; 23Gam Per ; 2.93; 4700;occ; 97; 0;38698
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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 10; 4661.8; 25-JUL-2009 13:56:42; Dark ; 50.0; 146; 25Eta Tau ; 2.87; 15200;occ; 100; 0;38698
 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
 15; 6527.7; 25-JUL-2009 14:27:48; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;38698
 16; 6904.1; 25-JUL-2009 14:34:04; Dark ; 44.5; 31; Alp Gru ; 1.73; 15200;occ; 89; 0;38698
 17; 7096.0; 25-JUL-2009 14:37:16; Dark ; 49.5; 172; Gam Gru ; 3.00; 13100;occ; 99; 0;38698

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 3; 2816.3; 25-JUL-2009 15:06:33; Bright; 43.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 87; 0;38699
 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
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 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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 2; 2636.3; 25-JUL-2009 16:44:09; Bright; 48.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 96; 0;38700
 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
 15; 5604.4; 25-JUL-2009 19:14:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38701
 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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4; 498.5; 26-JUL-2009 00:31:30; Dark ; 62.5; 84; Alp Phe ; 2.40; 4500;occ; 125; 0;38705
5; 871.6; 26-JUL-2009 00:37:44; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38705
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
10; 3130.4; 26-JUL-2009 01:15:22; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;38705
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
14; 4098.6; 26-JUL-2009 01:31:31; Bright; 47.5; 35; 33Alp Per ; 1.79; 6250;occ; 95; 0;38705
15; 4287.0; 26-JUL-2009 01:34:39; Bright; 52.0; 79; 26Bet Per ; 2.31; 13100;occ; 104; 0;38705
16; 4489.5; 26-JUL-2009 01:38:01; Dark ; 50.5; 150; 44Zet Per ; 2.89; 28000;occ; 101; 0;38705
17; 4664.0; 26-JUL-2009 01:40:56; Dark ; 51.5; 146; 25Eta Tau ; 2.87; 15200;occ; 103; 0;38705
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3; -101.3; 26-JUL-2009 02:02:06; Dark ; 43.0; 157; The1Eri ; 2.91; 9300;occ; 86; 0;38705
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
11; 3546.6; 26-JUL-2009 03:02:54; Bright; 31.0; 74; 11Bet Cas ; 2.27; 6600;occ; 62; 0;38706
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4; -1937.4; 26-JUL-2009 03:12:06; Bright; 45.0; 35; 33Alp Per ; 1.79; 6250;occ; 90; 0;38706
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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15; 2630.5; 26-JUL-2009 06:08:50; Bright; 48.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 96; 0;38708
16; 2810.8; 26-JUL-2009 06:11:51; Bright; 64.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 128; 0;38708
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6; 1070.7; 26-JUL-2009 22:28:50; Dark ; 46.0; 172; Gam Gru ; 3.00; 13100;occ; 92; 0;38718
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16; 6555.8; 27-JUL-2009 08:23:15; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38723
17; 6918.8; 27-JUL-2009 08:29:18; Dark ; 45.5; 31; Alp Gru ; 1.73; 15200;occ; 91; 0;38723
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3; 2801.5; 27-JUL-2009 09:01:16; Bright; 44.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 89; 0;38724
4; 3121.4; 27-JUL-2009 09:06:36; Bright; 38.5; 89; 5Alp Cep ; 2.45; 8000;occ; 77; 0;38724
5; 3532.5; 27-JUL-2009 09:13:27; Bright; 52.0; 74; 11Bet Cas ; 2.27; 6600;occ; 104; 0;38724
6; 3641.5; 27-JUL-2009 09:15:16; Bright; 55.0; 76; 27Gam Cas ; 2.30; 30000;occ; 110; 0;38724
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8; 4094.9; 27-JUL-2009 09:22:50; Bright; 49.5; 35; 33Alp Per ; 1.79; 6250;occ; 99; 0;38724
9; 4284.9; 27-JUL-2009 09:26:00; Bright; 54.5; 79; 26Bet Per ; 2.31; 13100;occ; 109; 0;38724
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11; 4670.0; 27-JUL-2009 09:32:25; Dark ; 54.0; 146; 25Eta Tau ; 2.87; 15200;occ; 108; 0;38724
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17; 6919.2; 27-JUL-2009 10:09:54; Dark ; 45.0; 31; Alp Gru ; 1.73; 15200;occ; 90; 0;38724
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3; 2800.9; 27-JUL-2009 10:41:52; Bright; 45.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 91; 0;38725
4; 3120.9; 27-JUL-2009 10:47:12; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38725
5; 3531.8; 27-JUL-2009 10:54:02; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38725
6; 3640.8; 27-JUL-2009 10:55:51; Bright; 49.5; 76; 27Gam Cas ; 2.30; 30000;occ; 99; 0;38725
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9; 4284.7; 27-JUL-2009 11:06:35; Bright; 56.0; 79; 26Bet Per ; 2.31; 13100;occ; 112; 0;38725
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12; 4765.9; 27-JUL-2009 11:14:36; Dark ; 53.0; 13; 87Alp Tau ; 0.87; 3800;occ; 106; 0;38725
13; 5390.5; 27-JUL-2009 11:25:01; Dark ; 52.0; 165; 34Gam Eri ; 2.95; 3200;occ; 104; 0;38725
14; 5636.9; 27-JUL-2009 11:29:08; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38725
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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
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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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 11; 4670.6; 27-JUL-2009 12:53:37; Dark ; 53.5; 146; 25Eta Tau ; 2.87; 15200;occ; 107; 0;38726
 12; 4766.3; 27-JUL-2009 12:55:13; Dark ; 51.0; 13; 87Alp Tau ; 0.87; 3800;occ; 102; 0;38726
 13; 5391.2; 27-JUL-2009 13:05:38; Dark ; 51.0; 165; 34Gam Eri ; 2.95; 3200;occ; 102; 0;38726
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 17; 6920.5; 27-JUL-2009 13:31:07; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38726
 18; 7111.4; 27-JUL-2009 13:34:18; Dark ; 46.5; 172; Gam Gru ; 3.00; 13100;occ; 93; 0;38726

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 4; 3119.4; 27-JUL-2009 15:48:58; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;38728
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 11; 4671.5; 27-JUL-2009 16:14:50; Dark ; 54.0; 146; 25Eta Tau ; 2.87; 15200;occ; 108; 0;38728
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 13; 5392.9; 27-JUL-2009 16:26:51; Dark ; 53.0; 165; 34Gam Eri ; 2.95; 3200;occ; 106; 0;38728
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 15; 5955.0; 27-JUL-2009 16:36:13; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;38728
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 17; 6921.6; 27-JUL-2009 16:52:20; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;38728
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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
 4; 3119.1; 27-JUL-2009 17:29:33; Bright; 39.0; 89; 5Alp Cep ; 2.45; 8000;occ; 78; 0;38729
 5; 3528.7; 27-JUL-2009 17:36:23; Bright; 50.0; 74; 11Bet Cas ; 2.27; 6600;occ; 100; 0;38729
 6; 3638.2; 27-JUL-2009 17:38:13; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38729
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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
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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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 3; 2065.4; 27-JUL-2009 18:52:36; Bright; 38.0; 11; 53Alp Aql ; 0.76; 8000;occ; 76; 0;38730
 4; 2615.5; 27-JUL-2009 19:01:46; Bright; 46.0; 92; 53Eps Cyg ; 2.50; 4500;occ; 92; 0;38730
 5; 2709.8; 27-JUL-2009 19:03:20; Bright; 39.0; 144; 18Del Cyg ; 2.86; 11000;occ; 78; 0;38730
 6; 2798.0; 27-JUL-2009 19:04:48; Bright; 63.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 126; 0;38730
 7; 3118.5; 27-JUL-2009 19:10:09; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38730
 8; 3527.9; 27-JUL-2009 19:16:58; Bright; 50.5; 74; 11Bet Cas ; 2.27; 6600;occ; 101; 0;38730
 9; 3637.6; 27-JUL-2009 19:18:48; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38730
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 13; 4493.0; 27-JUL-2009 19:33:03; Dark ; 51.0; 150; 44Zet Per ; 2.89; 28000;occ; 102; 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
 6; 1079.4; 28-JUL-2009 01:18:33; Dark ; 47.5; 172; Gam Gru ; 3.00; 13100;occ; 95; 0;38734
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 9; 2708.7; 28-JUL-2009 01:45:43; Bright; 39.0; 144; 18Del Cyg ; 2.86; 11000;occ; 78; 0;38734
 10; 2795.6; 28-JUL-2009 01:47:09; Bright; 43.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 87; 0;38734
 11; 3116.6; 28-JUL-2009 01:52:30; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38734
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 13; 3635.0; 28-JUL-2009 02:01:09; Bright; 65.0; 76; 27Gam Cas ; 2.30; 30000;occ; 130; 0;38734
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 5; 889.0; 28-JUL-2009 02:55:59; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38735
 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; 3116.1; 28-JUL-2009 03:33:06; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;38735
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 3; 2582.3; 31-JUL-2009 16:54:45; Bright; 42.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 85; 0;38786
 4; 2768.8; 31-JUL-2009 16:57:51; Bright; 42.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 84; 0;38786
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 7; 3600.2; 31-JUL-2009 17:11:42; Bright; 51.0; 76; 27Gam Cas ; 2.30; 30000;occ; 102; 0;38786
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